

Purchasing Office
191 South East Street
Frederick, Maryland 21701
301-644-5208 phone
301-644-5213 fax
kim.miskell@fcps.org



Stephen P. Starmer, C.P.M., CSBA,
Purchasing Manager
**Kim Miskell, CSBO, Assistant Purchasing
Manager**
Bill Meekins CPPB, CSBO, CPCP,
Purchasing Agent
Shane Ryberg, Purchasing Agent

ADDENDUM

January 28, 2019

ADDENDUM # 1

Bid 19C4, Urbana Elementary School Replacement – Construction Stage II

DUE DATE & TIME:

Bids for Construction Stage II - Phase A: 2A Site Work and Geo Thermal; 3A Concrete; 4A Masonry; 5A Steel; 6A General Carpentry; 7A Roofing; 8A Windows and Storefronts; 9A Drywall and Acoustical; 15A Mechanical and 16A Electrical will be received and time stamped in the main lobby of Frederick County Public Schools (FCPS) at 191 South East Street, Frederick, MD 21701, prior to and time stamped no later than 10:00 a.m. local time, February 20, 2019

Bids for Construction Stage II - Phase B: 9B Tile; 9C Fluid Applied & Terrazzo Flooring (Terrazzo as an Alternate); 9D Resilient Flooring and Rubber Athletic Surfacing; 9E Painting; 11A Food Service; 11B Athletic Equipment; will be received and time stamped in the main lobby of Frederick County Public Schools (FCPS) at 191 South East Street, Frederick, MD 21701, prior to and time stamped no later than 1:30 p.m. local time, February 20, 2019.

Bids received after these times will be returned unopened. All bids will be opened and read aloud in the Central Office Board Room.

This addendum is being issued to provide additions, corrections, clarifications and answers to certain questions raised referencing the original bid packages and any resultant contracts for the above bid.

1. This Addendum includes the following attachment(s):
 - a. Oak Contracting, LLC - Addendum No. 1 (39 pages)
 - b. Grimm and Parker – Addendum No. 1 (52 pages)
 - c. Construction Management Pre-Bid Agenda/Notes (4 pages)
 - d. Purchasing Department Notes (2 pages)
 - e. Pre-Bid Attendance Roster (3 pages)

Thank you for your interest in bidding with Frederick County Public Schools and we apologize for any inconvenience this may have caused.

Sincerely,

Kim Miskell

Kim Miskell, CSBO,
Assistant Purchasing Manager

km/ab

pc: Bradley Ahalt, Senior Project Manager, Construction Management
Dave Toth PM, Oak Contracting
Don Porter, Grimm & Parker



ADDENDUM NO. 1

January 28, 2019

TO: ALL PLANHOLDERS AND PROSPECTIVE BIDDERS

RE: **URBANA ELEMENTARY SCHOOL REPLACEMENT**

This addendum forms a part of the Contract Documents and modifies the original Bidding Documents dated January 10, 2019. Acknowledge receipt of this Addendum in the space provided on the Form of Proposal.

General:

See attached Pre-Bid Meeting Minutes prepared by Oak Contracting dated 1/18/2019 (4 pages).

See attached Oak Contracting Pre-Bid RFI's numbered ST 2 PB-001 through ST 2 PB-003, and ST 2 PB-006 through ST 2 PB-009 for response to questions related to the Bid Documents (32 pages).

Changes to the Specifications:

Section 00 24 16 Contract Packages

All Contract Packages:

Add Attachment "MBE Sub-Contractor Payment Verification Form-Cma" to the end of section 00 24 16.

Contract Package 2A Sitework & Geothermal:

Item 2.02: Delete reference to 445.25' and replace with 445.33'.

Contract Package 3A Concrete:

Item 2.19: Delete reference to 445.25' and replace with 445.33'.

Contract Package 9C Fluid Applied and Terrazzo Flooring (Terrazzo as alternate):

Add Item 2.19:

- 2.19 9C Contractor shall furnish and install topping slab required for the walk-in freezer and cooler. 9C Contractor to coordinate required floor depression with the 3A and 11A Contractors. 9C Contractor is responsible to ensure proper elevation of final floor finish.

Contract Package 15A Mechanical:

Item 2.32: Delete in its entirety and replace with:

- 2.32 15A Contractor is responsible for the complete installation of louvers furnished under this package, including, but not limited to, metal flashing, sills, pans, sloped beds, etc. to provide a weather-tight installation. Exterior caulking will be as assigned to other contract packages. 15A Contractor will be required to water test all louvers upon completion of the installation. 15A Contractor is responsible to coordinate rough opening sizes with 4A and 9A Contractors.

Contract Package 16A Electrical:

Add Item 2.53:

- 2.53 16A Contractor shall furnish and install the Electric-Vehicle Service Equipment as described in Specification Section 26 27 43. 16A Contractor is responsible to furnish and install a complete system in accordance with the Contract Documents to include the concrete mounting base and anchor bolts. All work is to be coordinated with the 2A Contractor as required.

Prebid Meeting Minutes

Urbana ES Replacement

01/18/2019

Owner: Frederick County Public Schools
 Construction Manager: Oak Contracting
 Architect: Grimm & Parker
 Civil Engineer: Adtek
 Structural Engineer: Wolfman & Associates
 MEP Engineer: Gipe Associates

1	List of attendees is attached per FCPS Sign-in Sheet
2	Each bidder shall submit an original of the BID FORM OF PROPOSAL, and it shall be sealed in an opaque envelope and marked #19C4, Urbana Elementary School Replacement. All inner and outer envelopes and packaging, used by Fed Ex, UPS and etc., should be labeled with the Bid Name, Bid Number, and Due Date/Time.
3	Bids for Bid Group 1 (2A thru 9A; 15A, 16A) shall be addressed to the Owner, The Board of Education of Frederick County, and will be received in the Main Lobby of Frederick County Public Schools (FCPS), 191 South East Street, Frederick, Maryland 21701, no later than 10:00 AM Eastern Standard Time on February 20, 2019. Bids received after this time will be returned unopened. All bids will be opened and read aloud in the Central Office Board Room. Bids for Bid Group 2 (9B thru 11B) shall be received no later than 1:30 PM Eastern Standard on February 20, 2019. Bids received after this time will be returned unopened. All bids will be opened and read aloud in the Central Office Board Room. Bid groups coincide with the phases identified on the preliminary schedule provided in specification section 00 31 13.
4	Bidders submitting on more than one package must provide separate forms of proposals and submit each bid in a separate envelope.
5	Fill out bid form completely. There can be no exclusions or exceptions to your offer.
6	All Bidding Contractors must register with Emaryland marketplace in order to be awarded the Contract. FCPS considers the registration on Emaryland marketplace as their prequalification.
7	Drawings and specs are available for download through FCPS website (www.fcps.org). Select current solicitation and the bid number 19-C-4. Bidders will be required to create log in / password and provide a valid email address for Addenda distribution via email. Questions regarding downloading the Bid Documents from FCPS should be directed to Kim Miskell (kim.miskell@fcps.org). All addendums will be issued via this same web address.
8	Minority Business Enterprise (MBE) Participation: Package by package goals are identified in the Invitation to Bid. MDOT certification is only basis for MBE recognition. MDOT certification must be current at the time of Proposal submission. MBE Waiver Forms are required to include documented efforts to obtain MBE participation.
9	It is possible that 1st, 2nd, and 3rd place bidders may be requested to provide their MBE documentation. If there is a problem with the documentation provide by the apparent low bidder, the next bidder in line will be evaluated for compliance with MBE requirements.
10	Bidding Contractors are required to review the wage rate classifications of workers provided in the Specifications. If a classification required for your Contract Package is not listed than the Contractor must make a wage rate determination request to the State in writing with a cc to Oak Contracting. No claims will be considered by the Owner for incorrect wage rates being used by the Contractors.

Prebid Meeting Minutes

Urbana ES Replacement

01/18/2019

11	Contractor must comply with the State of Maryland's mandatory electronic submission of Certified payroll reports. Oak will schedule a mandatory meeting for the awarded Contractors to meet with DLLR to review the new required procedures and ask any questions. Oak reserves the right to require Contractors to provide any requested Certified Payroll Report at any point in time. Contract close-out is contingent on DLLR close-out.
12	5% Bid Bond for all bidders. Certified Check or cashier's check is also acceptable. 100% Payment Bond, 100% Performance Bond are required from low responsible bidder. Bonding Company must meet rating requirements specified in the Supplemental Instructions to Bidders.
13	Project is only being bid prevailing wage.
14	Questions are to be submitted in writing to Oak Contracting, FCPS Senior PM, and FCPS Purchasing via email. Questions must be emailed to the following parties. Kim Miskell (kim.miskell@fcps.org), Brad Ahalt (Bradley.Ahalt@fcps.org), and Dave Toth (dtoth@oakcontracting.com); Questions must be submitted no later than 4pm on February 7, 2019 . 1st addendum is to be issued the week of January 25, 2019. Last addendum is anticipated to be issued on February 8, 2019.
15	Bidders must use products and manufacturers listed in the Contract Documents. Despite any reference to the contrary elsewhere in the contract documents, no requests for "equals" or "substitutions" will be considered after the submission of the Proposal. Please read Contract Packages Scope Item 1.23 carefully for requirements and restrictions. All requests for "equals" or "substitutions" must be formally submitted and approved prior to the Pre-Bid Question cutoff date. All approved requests will be included in Addenda while unapproved requests will not be included.
16	The Contractor's submittal and The Design Team's acceptance of Shop Drawings, Product Data, or Samples for construction activities not complying with the Contract Documents do not constitute an acceptance or a valid request for substitution, nor do they constitute approval.
17	Project is taxable.
18	The Buy American Steel Act is applicable.
19	Date of substantial completion for the new building is June 30, 2020.
20	Potential liquidated damages are identified in the Contract Document AIA A132/CMA - 2009. \$725/Day
21	15A and 16A Contractors were advised that the BAS "Controls" contractor will be Johnson Controls Inc. This contract will be assigned to the 15A Contractor for management, administration, and coordination into the overall project.
22	No Tobacco Products - Entire site per FCPS and State Law.
23	Each contractor is to check the Maryland, Virginia, West Virginia, and Pennsylvania Sex Offender Registry to eliminate the possibility of employing anyone registered on this list on this project. Failure to comply with this requirement may be cause for contract termination. Oak may randomly check workers onsite with RAPTOR technology and remove registered workers immediately.
24	Attendance at Prebid meeting is not mandatory to submit a Proposal.
25	Capital Equipment Informational Unit Prices shall be required from the Apparent low bidder within 48 hours of request for same.

Prebid Meeting Minutes

Urbana ES Replacement

01/18/2019

26	Unit prices are applicable to all contract packages. Unit prices may be adjusted if it is determined that the listed unit price is not equitable to all parties. Contractors were encouraged to review the unit prices and submit any unit price clarifications prior to the Pre-Bid Question cutoff date.
27	Bids are to remain valid for a minimum of 200 days from the date of submission.
28	Project must achieve USGBC/LEED Silver certification level as a minimum. All costs for participation in the certification process must be include in each Contractor's proposal.
29	All Warranty's are a minimum of two years unless a longer duration is specified elsewhere in the documents. The minimum 2 year warranty supersedes any reference to one year warranty in the Contract Documents.
30	Closeout documents must be submitted and approved before any reduction of retainage will be considered. Closeout documents scheduled value is a mandatory minimum of 2% of total contract value. Further information is provided in Contractors Contract Packages Scope Item 3.9.
31	Steel Procurement for Public Works is addressed in FCPS Supplemental Instructions to Bidders.
32	Certificate of Insurance is required, see limits in AIA A132/CMA -2009 contract. Note additional insured's Board of Education of Frederick County, Frederick County Council, State of Maryland, and Oak Contracting LLC.
33	Deductible of FCPS Builder's Risk insurance is \$ 1,000.00.
34	Safety program is required of each Contractor on the project. Prime Contractors are responsible for obtaining and providing all subcontractor safety programs. Prime Contractors are responsible to enforce and manage their safety programs. See Contract Package Scope Item 3.15.
35	The trade permits obtained by each Contractor must match the corresponding building permit issued on the project. FCPS is responsible to obtain the main building permit and grading permit only.
36	Work hours are 7:00AM to 4:00PM. All after hour work is to be scheduled and coordinated with Oak
37	Allowable noise levels are per Comar 26.02.03.03.
38	Oak advised that night work, weekend work, and work on holidays may be required to meet schedule and must be anticipated. Schedule is being developed using 6 day work weeks. All costs must be included in each Contractor's base bid proposal.
39	Potential Bidders are welcomed to visit the site at their convenience. Oak will be on site approximately from 7am to 4pm Monday through Friday.
40	Contractors were reminded that they are required to use the web-based software service which is paid for by the Construction Manager. Web base management system for this project will be "Procore." Instructions are listed in each Contract Package.
41	MDE NPDES Discharge permit will be transferred to the 2A Contractor during construction. Contractor is responsible to complete all requirements of the permit and transfer it back to the Owner after achieving substantial completion. Permit is to be completed online through MDE.
42	Certain CAD Files may be available to Contractors with a completed Waiver Form. These specific CAD files will only be available Contractors who are awarded the project.

Prebid Meeting Minutes

Urbana ES Replacement

01/18/2019

43	The project will consist of 2 phases which are identified in the preliminary schedule located in specification section 00 31 13 and on the Form of Proposal located in specification section 00 42 00.
44	Requirements for office trailers for Owner, CM and Architect are by the CM.
45	CM/Owner will hire a third party consultant to complete the coordination drawings for this project. Contractors are required to provide the required documentation for this coordination as per the schedule so as not to delay the process. Contractors can be charged for third party consultant fees if coordination information is not provided and if they do not participate in the process. Lack of coordination drawings will not be cause for delays in the work.
1	How will addendums be issued?
	Answer: Per Oak Contracting the addendums will be issued via FCPS website where drawings were obtained. All contractors who have created a profile on the website will be notified when addendums are uploaded.
2	How will "controls" contractor be assigned and who will be responsible for payment to Johnson Controls?
	Answer: Per Oak Contracting, FCPS will contract with JCI and then assign that contract to the successful 15A Contractor. The 15A Contractor will be required to administer, manage, and coordinate the contract into the project. FCPS will be responsible for payment to the 15A Contractor. 15A Contractor should carry a line item on their schedule of values for the administration, management, and coordination of the controls contract.
3	Does the Owner have the permits in hand?
	Answer: Per FCPS, Owner will have the building permit and the grading permit when the contracts are awarded.
4	How do we fill out the bid form for the 2 phases?
	Answer: Form of Proposal has line items for both phases. Award is based on the total sum of phase 1 and phase 2. Contractors were cautioned not to front load phase 1. Specific assignments are provided in the preliminary construction schedule. Payment for work will be based on completion of the work. Contractors were also reminded not to leave any lines blank on the form of proposals. If something doesn't apply, mark it as N/A. Example; If a Contractor doesn't have phase 1 work then they need to mark that line item as N/A.



Request For Information ST2 PB-001

Urbana Elementary School Replacement
3554 Urbana Pike
Frederick, Maryland 21704

Project # 1707
Tel: Fax:

RFI #: ST2 PB-001

Date Created: 1/22/2019

Answer Company	Answered By	Author Company	Authored By
Frederick County Public Schools 191 South East Street Frederick, MD 21701	Brad Ahalt Phone: 301-644-5164 Fax: 301-644-5175	Oak Contracting, LLC 1000 Cromwell Bridge Road Towson, MD 21286	Kerrigan Toth Phone: 410-828-1000 Fax: 410-828-7488

Co-Respondent

Kim Miskell

Author RFI Number

1

Subject	Discipline	Category
Divisions 26 thru 28 responsibility	Electrical	Contract Package Responsibility

Cc:	Company Name	Contact Name	Copies	Notes
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Question

Date Required:

The packages being bid as part of solicitation go up to 16A Electrical, which is normally associated with Division 26 Electrical in the Specifications. Are spec Divisions 27 (Communications) and 28 (Electronic Safety and Security) part of the 16A Electrical package, or will they be bid at another time?

Suggestion

Answer

Date Answered: 1/18/2019

The referenced Specification Sections are within the 16A Contract Package Scope of Work and are the responsibility of the 16A Contractor.



Request For Information ST2 PB-002

Urbana Elementary School Replacement
3554 Urbana Pike
Frederick, Maryland 21704

Project # 1707
Tel: Fax:

RFI #: ST2 PB-002

Date Created: 1/22/2019

Answer Company	Answered By	Author Company	Authored By
Oak Contracting, LLC 1000 Cromwell Bridge Road Towson, MD 21286	Dave Toth Phone: 410-828-1000 Fax: 410-828-7488	Oak Contracting, LLC 1000 Cromwell Bridge Road Towson, MD 21286	Kerrigan Toth Phone: 410-828-1000 Fax: 410-828-7488

Co-Respondent

Author RFI Number

2

Subject	Discipline	Category
CAD File availability		Other

Cc:	Company Name	Contact Name	Copies	Notes
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Question

Date Required:

Request for CAD Files associated with project.

Suggestion

Answer

Date Answered: 1/21/2019

CAD Files will only be available for the Contractors working on the project. They will not be made available for bidding purposes. This will be clarified by addendum.



Request For Information ST2 PB-003

Urbana Elementary School Replacement
3554 Urbana Pike
Frederick, Maryland 21704

Project # 1707
Tel: Fax:

RFI #: ST2 PB-003		Date Created: 1/22/2019	
Answer Company	Answered By	Author Company	Authored By
Oak Contracting, LLC 1000 Cromwell Bridge Road Towson, MD 21286	Dave Toth Phone: 410-828-1000 Fax: 410-828-7488	Oak Contracting, LLC 1000 Cromwell Bridge Road Towson, MD 21286	Kerrigan Toth Phone: 410-828-1000 Fax: 410-828-7488
Co-Respondent		Author RFI Number	
		3	

Subject	Discipline	Category
Wood flooring		Specification Clarification
Cc: Company Name	Contact Name	Copies Notes

Question	Date Required:
You (FCPS) state under UCI code 096429-Wood Strip and Plank Flooring, but there are not any specs on that number and it is not listed on the Finish Schedule. I do see that the gym receives Athletic Rubber flooring. Please clarify what the gymnasium receives and if there is any wood flooring.	
Suggestion	

Answer	Date Answered: 1/22/2019
There is no contract package for wood flooring on this project. There is no wood flooring in the gymnasium. The only wood strip flooring required is on the stage and that is inclusive of the 6A Contract Package.	



Request For Information ST2 PB-006

Urbana Elementary School Replacement
3554 Urbana Pike
Frederick, Maryland 21704

Project # 1707
Tel: Fax:

RFI #: ST2 PB-006 **Date Created: 1/24/2019**

Answer Company	Answered By	Author Company	Authored By
Grimm + Parker Architects 11720 Beltsville Drive Suite 600 Calverton, MD 20705	Don Porter Phone: 240-965-0713 Fax: 301-595-0089	Oak Contracting, LLC 1000 Cromwell Bridge Road Towson, MD 21286	Kerrigan Toth Phone: 410-828-1000 Fax: 410-828-7488

Co-Respondent	Author RFI Number
---------------	-------------------

Subject	Discipline	Category
Site amenities substitution request	Architectural	Contractor Suggestion / Upgrade

Cc:	Company Name	Contact Name	Copies	Notes
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Question **Date Required:**

See attached substitution request from Jamestown Advanced Products, Corp recommending their products be accepted for site amenities, including bike racks, benches, and trash receptacles. Please review and advise.

Suggestion

Answer **Date Answered:**

We take no exceptions to Jamestown Advanced Products for site furnishings as an acceptable manufacturer, subject to requirements of the specifications.

Supplier/Manufacturer Substitution Request Form

To: Frederick County Public Schools

Project: Urbana Elementary School Replacement-
Construction Stage 2- Phase B Project, Invitation #- 19C4

Address: 191 S. East St. Frederick, MD 21701

Attention: Amy Beall

Phone: 301-644-5201

E-Mail: amy.beall@fcps.org

Bid Date: February 20, 2019

Item Specified:

Specified Model and Manufacturer	Quoting Jamestown Model Number	Jamestown's Description	Jamestown's Price
Victor Stanley- BRWS-101	13143-1-2	Kennedy, 2 Bike, Dual Sided Rack, Powder Coated, In- Ground Mount	\$80
Victor Stanley- Homestead 32	11641-3	6', Contour Bench, Powder Coated Frames, Recycled Plastic Lumber, Pad Mount	\$746
Victor Stanley- ES- 242	17022-SP	32 Gallon, Round Ribbon Trash Receptacle, Flat Lid, Powder Coated. with 32 Gallon Trash Liner	\$725

Proposed Substitution:



Jamestown Advanced Products
2855 Girts Road
Jamestown, NY 14701
800-452-0639 | www.JamestownAdvanced.com

- A. Does the substitution affect dimensions shown on the drawings? No
- B. Will the undersigned pay for changes to the building designs, including engineering and detailing costs caused by the requested substitution? No
- C. What effect does the substitution have on other trades? None
- D. What are the differences between the proposed substitution and the specified item? Please see the attached submittal packet.
- E. In what respect are the Manufacturer's guarantees different for the proposed substitute compared to the guarantees for the specified item? All products and components (excluding lumber) have a 5-year warranty against defects in materials and workmanship under normal use. Please see attached full Terms & Conditions.

Supplier/Manufacturer Substitution Request Form

To: Frederick County Public Schools

Address: 191 S. East St. Frederick, MD 21701

Attention: Amy Beall

Phone: 301-644-5201

E-Mail: amy.beall@fcps.org

Project: Urbana Elementary School Replacement-
Construction Stage 2- Phase B Project, Invitation #- 19C4

Bid Date: February 20, 2019

***If you have questions or require further explanation,
Please do not hesitate to contact me.***

Brittany Green, Bid Specialist
Jamestown Advanced Products
2855 Girts Road
Jamestown, NY 14701
800-452-0639 ext. 214

For Use By Architect Only:

☐ Accepted ☐ Accepted as noted

☐ Not accepted ☐ Received too late

☐ Accepted for bidding. Subject to review and acceptance of submittal.

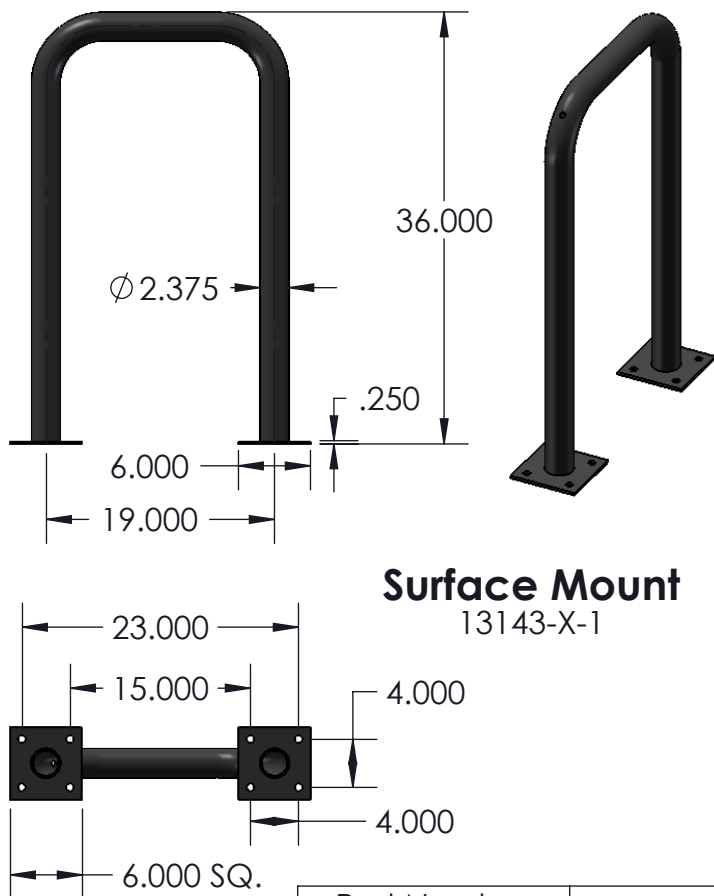
Reviewed by: _____

Date: _____

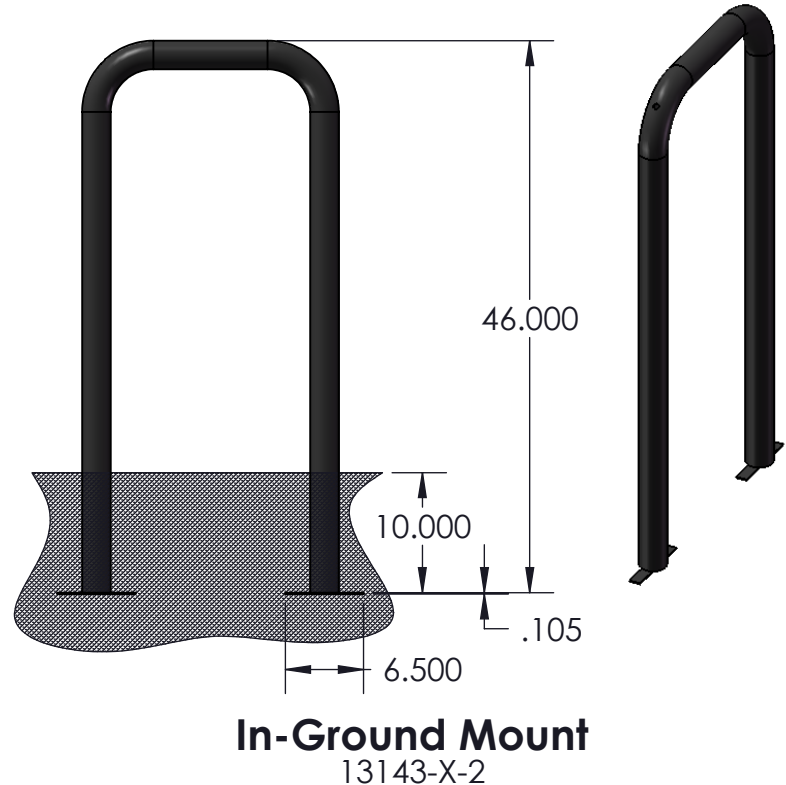
Notes:

KENNEDY BIKE RACK MODEL #13143-X-X

- 2 bike dual sided rack capable of parking 1 bike per side.
- The u-frame is fabricated using 2-3/8" OD tube/pipe and (2) 1/4" thick steel surface mounting plates or (2) 1" x 6-1/2" 12 ga. steel in-ground anchors.
- All welded component fabrication. Approximate weight for surface mount = 27lbs., in-ground mount = 31lbs.
- Mounting options available are surface or in-ground mount.
- There are (3) different finishes available to protect this bike rack from the elements:
 - Powder coated paint finish with your choice of colors (available upon request).
 - Plascoat (thermoplastic powder) is excellent protection against the elements with your choice of colors (available upon request). Plascoat is resistant to stress cracking, adverse weather conditions, detergents, salt spray and typical airborne pollutants. The material maintains excellent adhesion to the metal substrate and provides good abrasion and impact resistance.
 - Hot dip galvanized finish.



Surface Mount
13143-X-1



In-Ground Mount
13143-X-2

Part Number	Description
13143-1-1	Powder Coated Surface Mount
13143-1-2	Powder Coated In-Ground Mount
13143-2-1	Plascoat Surface Mount
13143-2-2	Plascoat In-Ground Mount
13143-3-1	Hot Dip Galvanized Surface Mount
13143-3-2	Hot Dip Galvanized In-Ground Mount

WARNING: MUST BE PERMANENTLY MOUNTED

CUSTOMER APPROVAL :

DATE :

JAMESTOWN
ADVANCED
PRODUCTS
CORPORATION

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DATE : 15 NOV 07

PRODUCT PART NUMBER : 13143

REV. NO. 2 12/10/15

PRODUCT DESCRIPTION :

KENNEDY BIKE RACK

2855 GIRTS ROAD
JAMESTOWN, NY 14701

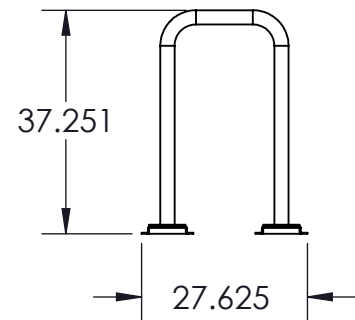
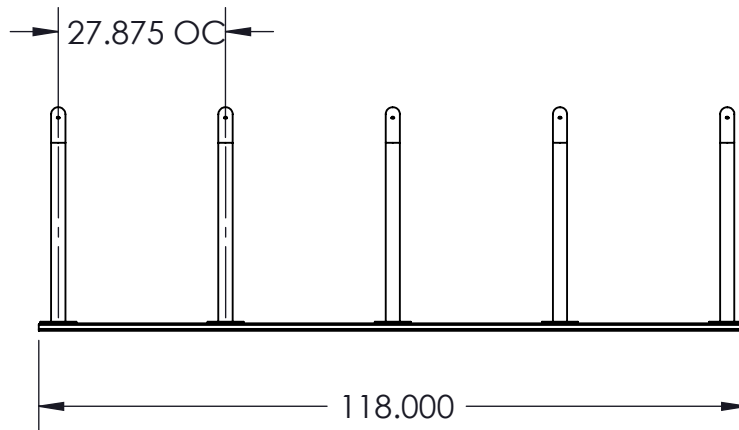
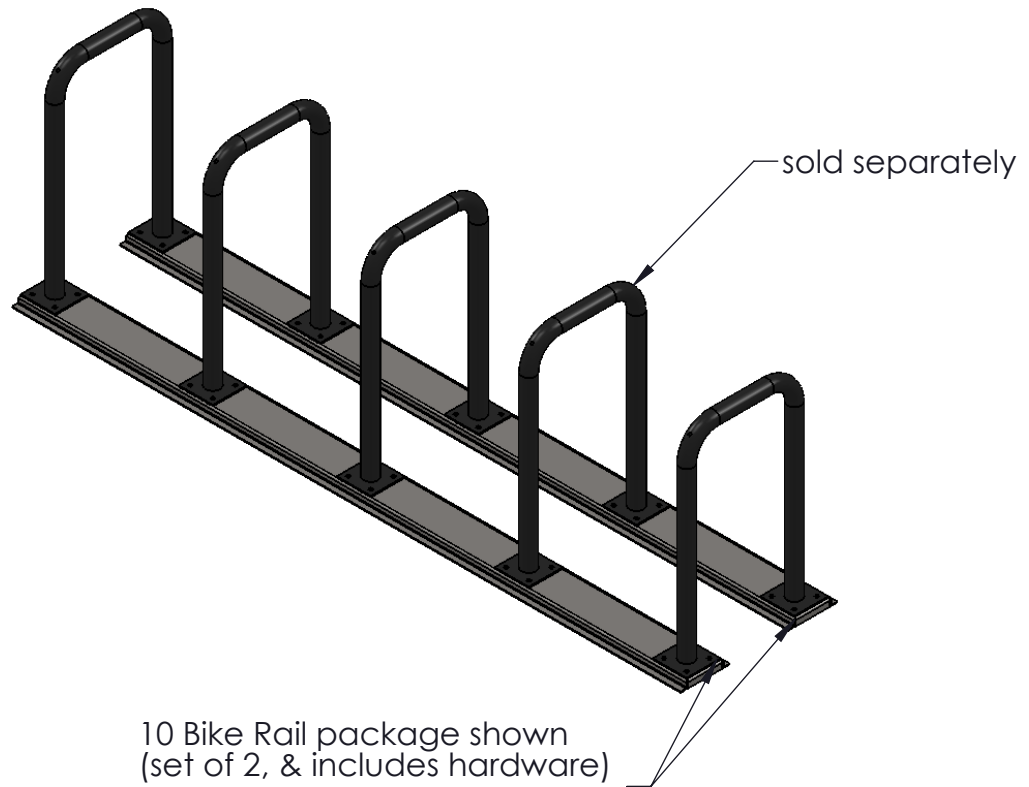
PHONE 800-452-0639 -- FAX 716-483-5398 -- WWW.JAMESTOWNADVANCED.COM

KENNEDY BIKE RACK WITH RACK EXTENSION RAILS

MODEL #13143-X-X

- 2 bike dual sided rack capable of parking 1 bike per side.
- The u-frame is fabricated using 2-3/8" OD tube/pipe and (2) 1/4" thick steel surface mounting plates or (2) 1" x 6-1/2" 12 ga. steel in-ground anchors.
- Extension rails are constructed from 3/16" (7 ga.) A36 steel.
- 1/2 bolts are used to assemble the standard pad mount bike racks to the rails (hardware provided).
- Approximate weight of the rails only (set of 2 + hardware) = 135 lbs

OPTIONS
14 BIKE RAIL SET
12 BIKE RAIL SET
10 BIKE RAIL SET
8 BIKE RAIL SET
6 BIKE RAIL SET
4 BIKE RAIL SET



WARNING: MUST BE PERMANENTLY MOUNTED

CUSTOMER APPROVAL :

DATE :

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PRODUCT PART NUMBER : 13143

PRODUCT DESCRIPTION :

KENNEDY BIKE RACK

DATE : 21 JUNE 13

REV. NO.

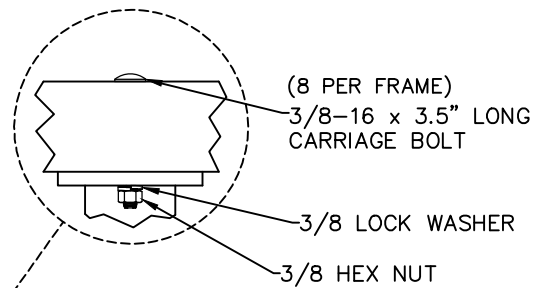
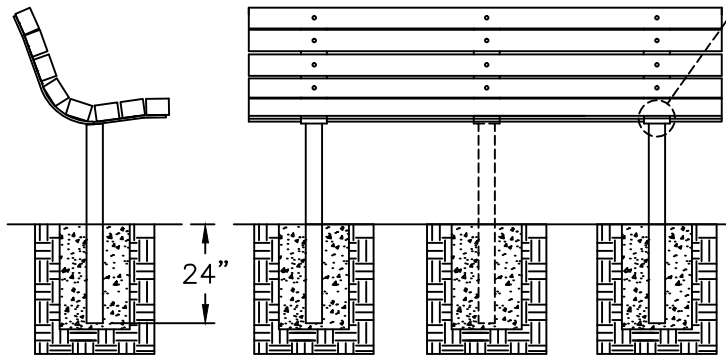
2855 GIRTS ROAD
JAMESTOWN, NY 14701

ALL LUMBER AND RECYCLED PLASTIC LUMBER
WILL BE 3" X 4" NOMINAL SIZE

BENCHES COME IN 6 FT. & 8 FT. LENGTHS

FRAMES COME WITH THE OPTION OF GALVANIZED
COATING OR BLACK POWDER COATING

SEE PAGE 2 FOR ORDER SPECIFICATIONS

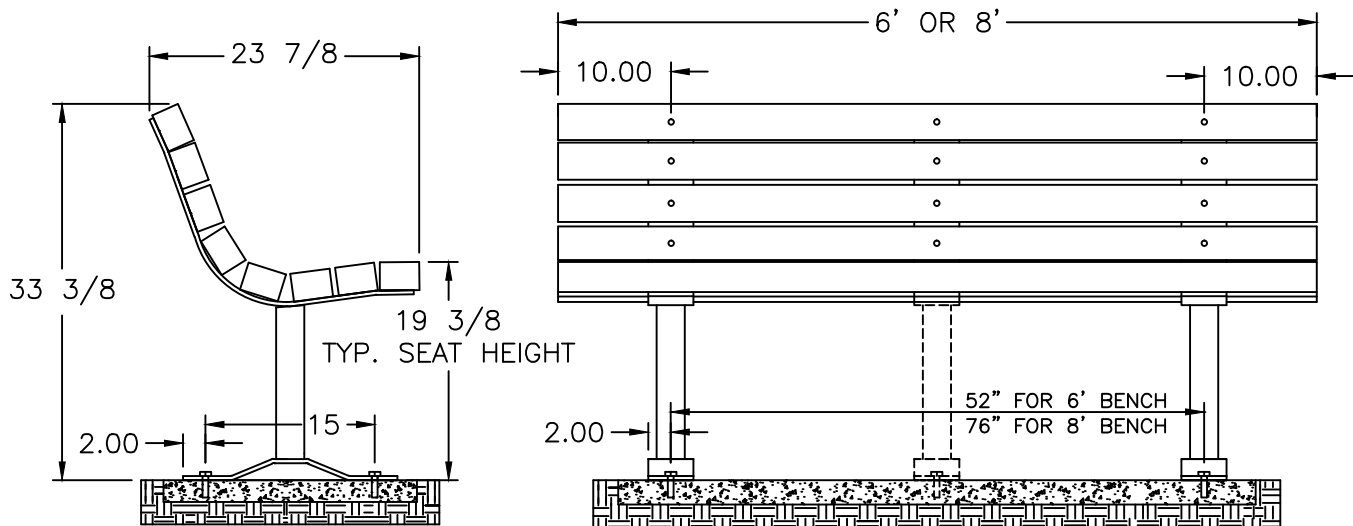


ALL SEAT BRACKETS AND FOOT
MOUNTING BRACKETS ARE
3/8" X 4" STEEL BAR STOCK

POSTS ARE 2 1/2" SQUARE TUBE

NOTE: CENTER FRAME IS
REQUIRED WITH RECYCLED
PLASTIC LUMBER

INGROUND MOUNT FRAMES SHOULD BE BURIED IN SUFFICIENT AMOUNT OF CONCRETE
TO SECURELY HOLD UNIT IN PLACE FOR INTENDED USE AND ENVIRONMENTAL
CONDITIONS



FRAMES SHOULD BE ANCHORED TO A
CONCRETE PAD PROVIDED BY THE CUSTOMER

WARNING: MUST BE PERMANENTLY MOUNTED

CUSTOMER APPROVAL :

DATE :

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CORPORATION

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MANNER NOR DISCLOSED TO THIRD PARTIES WITHOUT WRITTEN PERMISSION OF JAMESTOWN
ADVANCED PRODUCTS CORPORATION.

PRODUCT PART NUMBER : 11641

PRODUCT DESCRIPTION :
CONTOUR BENCH
PAD MOUNT OR INGROUND MOUNT

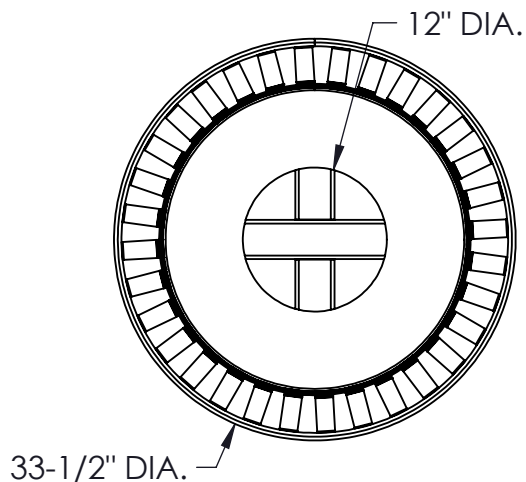
DATE : 10-23-00

REV. NO. 2 11/5/15

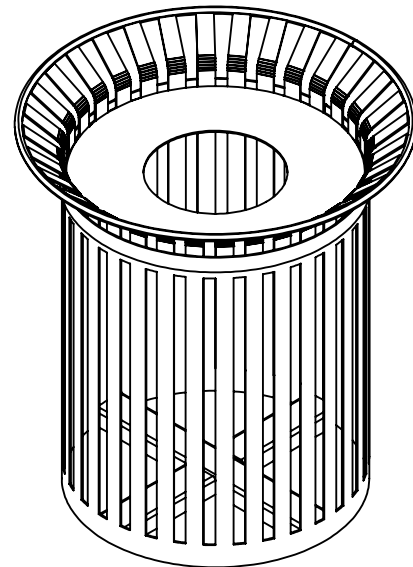
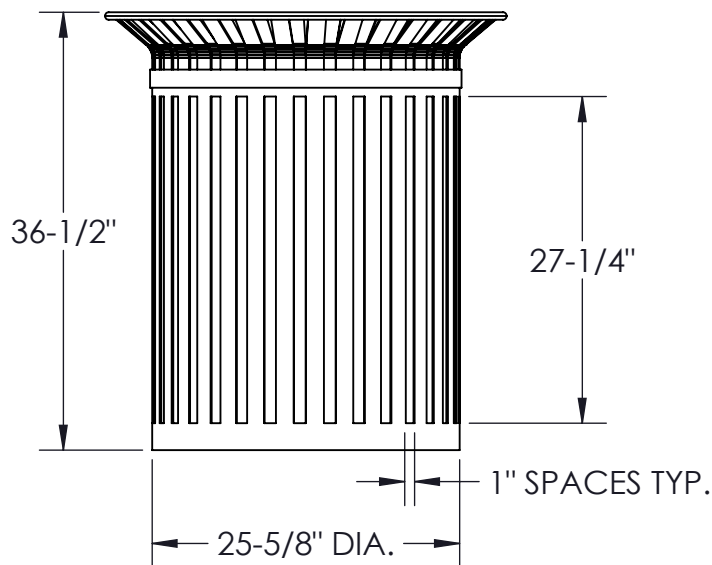
2855 GIRTS ROAD
JAMESTOWN, NY 14701

PHONE 800-452-0639 -- FAX 716-483-5398 -- WWW.JAMESTOWNADVANCED.COM





- Receptacle features 1" x 27-1/4" slots to create a ribbon style appearance.
- Includes a 32 gallon round plastic liner.
- Features removable steel lid to help prevent rain from entering liner.
- Constructed from 3/16" thick steel rolled & welded design to add stability & longevity.
- Top Rim is made from rolled 5/8" dia. A36 steel rod.
- Available in non-toxic powder coat finish or thermoplastic.
- Approx. Weight: 125 lbs.



WARNING: MUST BE PERMANENTLY MOUNTED

CUSTOMER APPROVAL :

DATE :

JAMESTOWN
ADVANCED
PRODUCTS
CORPORATION

THIS DRAWING, WHICH CONTAINS PROPRIETARY INFORMATION, IS THE PROPERTY OF JAMESTOWN ADVANCED PRODUCTS CORPORATION. IT SHALL NOT BE REPRODUCED IN ANY MANNER NOR DISCLOSED TO THIRD PARTIES WITHOUT WRITTEN PERMISSION OF JAMESTOWN ADVANCED PRODUCTS CORPORATION.

DATE : 7/2/18

PRODUCT PART NUMBER : TBD

REV. NO.

PRODUCT DESCRIPTION :

RIBBON STYLE TRASH RECEPTICLE

2855 GIRTS ROAD
JAMESTOWN, NY 14701

PHONE 800-452-0639 -- FAX 716-483-5398 -- WWW.JAMESTOWNADVANCED.COM



WOMEN'S BUSINESS ENTERPRISE
NATIONAL COUNCIL

JOIN FORCES. SUCCEED TOGETHER.

hereby grants

National Women's Business Enterprise Certification

to

Jamestown Advanced Products Corp.

who has successfully met WBENC's standards as a Women's Business Enterprise (WBE).

This certification affirms the business is woman-owned, operated and controlled; and is valid through the date herein.

Certification Granted: November 2, 2017

Expiration Date: November 2, 2019

WBENC National Certification Number: WBE1702237

WBENC National WBE Certification was processed and validated by
Women President's Educational Organization - NY, a WBENC Regional Partner
Organization.

Marsha Firestone, Ph. D.

Authorized by Marsha Firestone, President & Founder
Women President's Educational Organization - NY



WOMEN PRESIDENTS'
Educational Organization.

NAICS: 332322
UNSPSC: 72152604



What Jamestown Advanced Products Customers Are Saying...

RV Power Outlets



"When my wife and I purchased Red Oak Campground, Russell, PA, we knew we needed to upgrade the electric for 200 sites. To do this over the next three years, I needed a company that could give me a good product at a reasonable cost when I needed it. The pedestals are top quality and easy to work with. My experience in working with Jamestown Advanced Products was very much a positive one. Their professionalism was refreshing, and I welcome the opportunity to work with them again.

Steve Green, Red Oak Campground, Russell, PA

Fire View Campfire Rings



"The Jamestown Advanced Fire View Campfire Ring is an outstanding product, and there is nothing like it on the market. We recently updated some of our campgrounds, and installed these rings in our disability sites. Visitors really enjoy them, and their ambiance is great."

Shellye, National Park Service, Death Valley, CA

Picnic Tables



"My entire park is filled with equipment from Jamestown Advanced Products, and I am absolutely thrilled with their products and customer service. One of my favorite products is the hot dipped galvanized picnic tables. Not only are they easy to move and mow around - which saves me time - but they are high quality as well. When I visit a campground or park without Jamestown Advanced Products equipment, I take notice and let them know just who to call. I recommend Jamestown Advanced Products to everyone!"

William Cable, Austin Lake RV Park & Cabins, Toronto, OH

Standard Park Grills



"Just wanted to tell you how much I love the park grill that I purchased from you. It exceeded my expectations in every way. My sales rep did a great job helping me decide which grill would be the perfect fit for my needs. So glad I found your company, and I'm sure you will be hearing from me again!"

Michael Wright, Tabor City, NC

Animal-Proof Trash Receptacles



"The animal-proof trash receptacle ADA-compliant bin is awesome. We placed it in Chautauqua Gorge State Forest in Chautauqua County, which is a high-vandalism picnic area. It has held up very well, and is not only animal proof, but is people proof! We lock the bin up so that no one can tamper with the cans inside. Before, we had people who would burn the trash can up, or throw them into the gorge, or even drag them behind their pick-up and smash them. We mounted this unit on cement, as well as back off the main road in the picnic area. It has been there four years now, and is holding up well to the weather elements and the occasional graffiti painter. We just repaint it every so often to keep it looking clean. I would definitely recommend this for a high-traffic picnic or camp area."

Theresa Laurie, NYS DEC, Falconer, NY

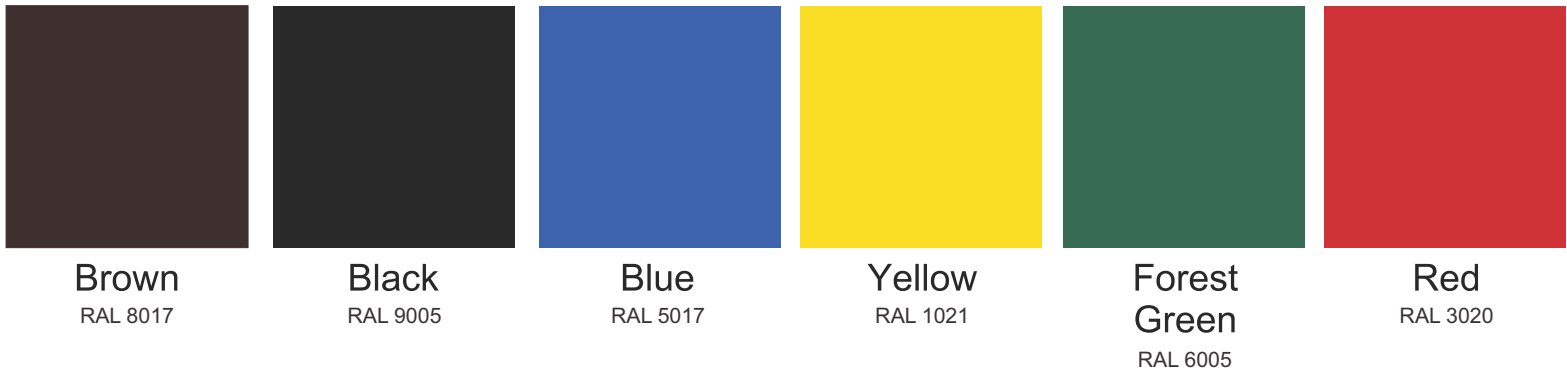
JAMESTOWN
ADVANCED PRODUCTS

800-452-0639
www.JamestownAdvanced.com

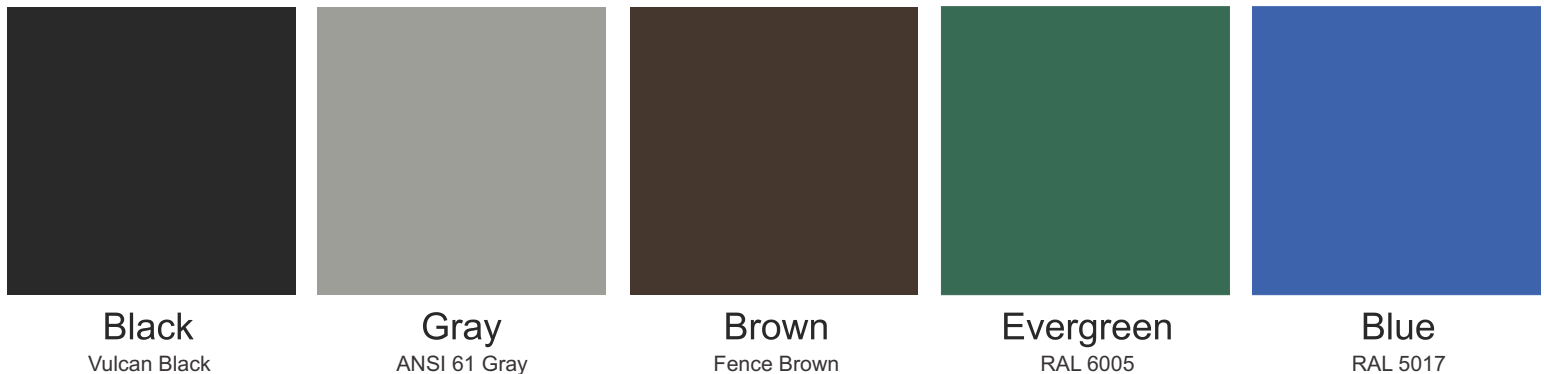


COLOR GUIDE*

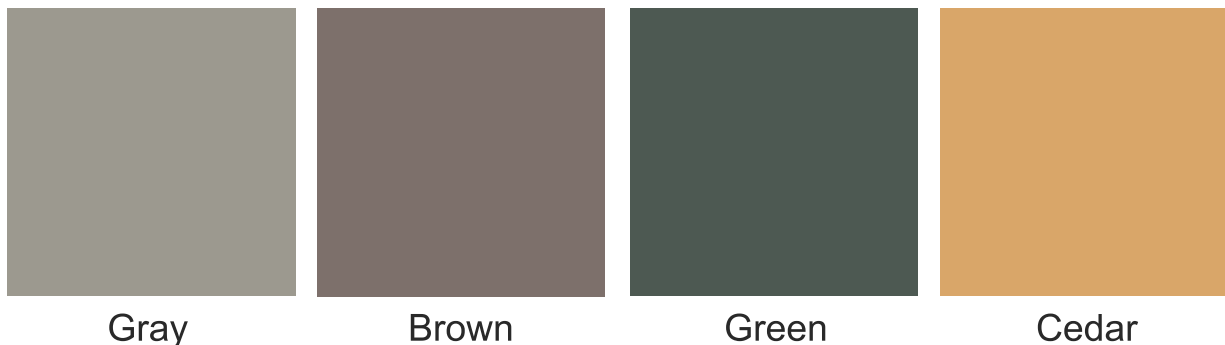
Thermoplastic Coating helps protect your expanded metal or decorative perforated item against the elements. It is resistant to stress cracking, wear from weather, detergents and corrosion. The material adheres to the metal framework and provides abrasion and impact resistance.



With a smooth coat and enhanced durability, **powder coating** offers a rich color finish with added durability. Powder coating protects your expanded metal or decorative perforated item from impacts, moisture, chemicals, ultraviolet light, and other extreme weather conditions. In turn, this reduces the risk of scratches, chipping, abrasions, corrosion, fading, and other wear issues.



Made from recycled materials, **recycled plastic lumber** offers a long lifespan.



*This color chart is for reference only. We do our very best to make sure our samples are as close to the exact product as possible, but cannot guarantee that what you see above is an exact sample. Jamestown Advanced Products is not responsible or liable for color matches made with this color chart.

Company Data

Jamestown Advanced Products, Corp. is a woman-owned small business. Our expertise in designing, welding and fabricating steel products has enabled us to produce top quality, American-made campground and park products that are extremely durable, yet competitively priced.



GSA Advantage!

GSA Contracts:

GS-03F-008DA

GS-03F-009DA

DUNS: 181760430

CAGE: 1HGC8

NAICS:

332322: (primary) Sheet Metal Work Manufacturing

332311: Prefabricated Metal Building and Component Manufacturing

332312: Fabricated Structural Metal Manufacturing

423210: Furniture Merchant Wholesalers

221122	332323
332439	332812
332999	333414
337124	337127
337214	339999
423990	423440
423510	

PSC List:

4540	7830	9640
5450	3685	2510



2855 Girts Rd
Jamestown, NY 14701
(Toll Free) (800) 452-0639
(P) (716) 483-3406
www.jamestownadvanced.com

Core Competencies

Campsite Products

- Charcoal Grills
- Bear Proof Lockers
- Campfire Rings
- Lantern Holders
- Picnic Tables
- Trash/Recycle Receptacles
- Animal Resistant Receptacles
- Fee Posts

Cityscape Products

- Bike Racks
- Charcoal Grills
- Benches
- Picnic Tables
- Trash/ Recycle Receptacles
- Animal Resistant Receptacles
- Fee Posts

GSA Schedule 78: Sports, Promotional, Outdoor, Recreation, Trophies, & Signs (Sports)

Differentiators

- GSA Approved Vendor (Contracts **GS-03F-008DA** and **GS-03F-009DA**). Jamestown Advanced Products, Corp. has had a GSA contract for the past 20 years.
- True OEM (Original Equipment Manufacturer).
- With more than 30 years of experience in the industry, Jamestown Advanced Products, Corp. has become recognized as a leader in creating new and innovative products to better serve the changing campground and park equipment industry.
- Government credit cards accepted.

Past Performance

- **Forest Service** – \$74,742.00
March 31st, 2017 – Recreational and Gymnastic Eq.
- **Dept. of the Air Force** - \$99,140.00
Sept. 16th, 2016 – Misc. Special Industry Machinery
- **Monongahela National Forest** - \$66,638.55
May 10th, 2012 – Waste Disposal Equipment
- **Dept. of the Army** - \$59,318.00
July 29th, 2009 – Recreational and Gymnastic Eq.



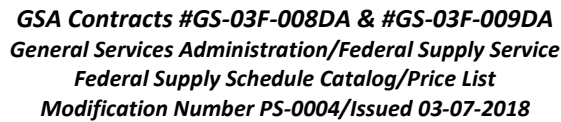
Contact Information

Primary Contact

Sales Department
(p) (800) 452-0639
www.jamestownadvanced.com

Secondary Contact

Shari Hallenbeck – Sales Manager
(p) (716) 483-3406 ext. 201
shallenbeck@jamestownadvanced.com





2855 Girts Road, Jamestown, NY 14701

Tel: 716-483-3406/800-452-0639

Fax: 716-483-5398

www.JamestownAdvanced.com

Park and Outdoor Recreation Equipment

New York State Contract

Contract #PC67465

Contract Period: Effective 4/25/2016 – 4/24/2021

Single Discount 14%

Additional 2% Discount on Orders of \$50,000 or more

Minimum Order Qualifying for FOB Delivery: \$500.00 per single delivery point

Order less than \$500.00 – Freight Charges invoiced as separate item

Terms and Conditions

Pricing Information

All prices included are list prices, US dollars, F.O.B. Jamestown Advanced Products in Jamestown, New York. **Prices are subject to change without notice.**

Discounts: Quantity pricing is available. Contract and GSA pricing is available to qualified buyers.

Credit Information

Credit Terms: Jamestown Advanced Products offers net terms to approved customers. Jamestown Advanced Products accepts payment via American Express, MasterCard, Visa, Check, Money Order or Wire Transfer.

Hold Status: An account may be placed on hold if past due balance(s) exist. Hold status prevents data entry, scheduling, acknowledgement and shipping of any existing or new order(s) on that account.

Returned Checks: Any account whose check payment is returned to Jamestown Advanced Products for insufficient funds will have a return check fee of \$35 applied for each rejected deposit attempt.

Ordering Information

Orders cannot be entered, processed or schedule for production until credit terms and all questions pertaining to the order are satisfied.

To avoid delays, all purchase orders should include the following:

1. Purchase order number
2. Jamestown Advanced Products part number
3. Quantity
4. Product color (if applicable)
5. Quoted prices
6. Shipping instructions

Products Matching / Specifications: Jamestown Advanced Products reserves the right to change and improve product specifications and designs without notice.

Jamestown Advanced Products reserves the right to discontinue or modify materials and products without notice. Customers will be notified of any modifications or changes impacting an order in progress.

Customer Order Changes: Any changes to an order must be communicated to your sales representative in a timely fashion.

Please Note: Each product manufactured by Jamestown Advanced Products is made to order. As such, if a change

is requested late in the manufacturing process, it may not be possible to accommodate the request. Additionally, a delay in shipping may occur when changes are requested.

Order Cancellations: Orders cancelled after product ships are subject to freight charges and/or restocking charges. Freight charges will be applied based on the actual costs, to and from, the shipping location and the original purchaser. Canceling or returning item(s) results in loss of free freight eligibility. You will be responsible for all freight charges.

Wood Standards and Regulations: U.S. Commercial Standards/Regulations require us to advise you that a wood product may experience some degree of warping and thickness variation. We do not warranty lumber.

Order Acknowledgement

Jamestown Advanced Products provides written order confirmations confirming receipt, order details and acceptance of an order. The order confirmation is considered a written agreement to produce, ship, and invoice items as specified on the order.

Jamestown Advanced Products is NOT responsible for acknowledgment errors, unless noted within 24 hours of receiving the order confirmation.

Customers must review the order confirmation and ensure it matches the order in respect to product specifications, pricing, quantity, color, freight, schedule ship date, etc. Jamestown Advanced Products is responsible for shipping exactly those items as specified on the order confirmation.

Lead Times: Standard lead times are 30 – 45 days, and vary depending on the season. Please call your sales representative for details, as some products are in stock. Jamestown Advanced Products will acknowledge an order's schedule ship or pickup date based upon:

1. The earliest possible date based on materials availability and current production commitments.

2. A customer's requested ship date that falls beyond our current lead times.

Any request for a ship or pickup date sooner than current Jamestown Advanced Products lead times will be considered and we will do our best to accommodate. If an expedited lead time is critical to an order, an additional fee may apply.

Jamestown Advanced Products will not be held responsible for shipment delays due to factors beyond the control of Jamestown Advanced Products.

Freight and Handling – Quotes / Charges

Jamestown Advanced Products will provide freight quotes based on information provided to the sales representative. Orders will ship freight prepay or 3rd party billing as specified. Jamestown Advanced Products chooses the carrier for prepay.

Freight Pricing: Jamestown Advanced Products' freight quotes include all freight, handling and support charges. While Jamestown Advanced Products attempts to negotiate market favorable rates, Jamestown Advanced Products cannot guarantee that its rates will be the lowest.

Changes / Special Requirements: Shipping changes in delivery specifications, scheduling while in route, or customer's failure to specify all delivery requirement(s) will result in an additional freight charges, and are the responsibility of the customer.

A partial list of chargeable delivery specification requirements include:

1. Limited access delivery
2. Residential or non-commercial delivery
3. Liftgate services
4. Inside delivery
5. Limited delivery times (i.e. only between certain hours)
6. Weekend delivery
7. Call before delivery notification
8. Driver's labor associated with off loading

Additional chargeable changes during shipment include:

1. Re-delivery
2. Storage
3. Additional services requested by the customer at delivery will be the responsibility of the customer

Note: Drivers are under no obligation to assist with off-loading unless specific previous arrangements are made.

Your order confirmation will contain the total weight of your order. If you have any questions, please call your sales representative. For LTL shipments, the time to unload is as follows:

Actual Weight Per Stop	Free Time in Minutes Per Vehicle
Less Than 1,000	15
1000 – 2500	30
2501 – 5000	60
5001 – 10000	90
10001 and over	120

Full truckload shipments have two (2) hours to unload per stop. No more than three (3) stops per truck can be accommodated.

How We Package

For LTL shipments, orders that are shipped as full truck loads will be palletized. After inspection and approval, our products are wrapped with shrink wrap and banded for stability. Products are marked with Do Not Stack tape if necessary.

Our goal is to ensure that your order leaves our dock and reaches your door undamaged.

Most products ship unassembled. Assembly/Installation instructions are available online at www.JamestownAdvanced.com or by calling your sales representative.

Depending on the size of your order, pallets containing lumber can weigh up to 3,000 lbs.

Pickup Policy

Jamestown Advanced Products will schedule a pickup with customers prior to order completion. New York State sales tax applies to customer pickup orders unless a valid New York State sales tax exemption is provided.

Pickup Delays: Please see shipping Delays. The same rules apply.

Packaging of Pickup Orders: Pickup orders will be packed as standard, unless otherwise specified.

Pickup Vehicle: The vehicle picking up an order must be appropriate. Examples of an inappropriate vehicle include:

1. Too small a vehicle for the amount of items being picked up.
2. Any vehicle lacking sufficient wall height to properly secure the load.

We reserve the right to refuse the release of merchandise to any pickup party utilizing a vehicle deemed inappropriate by Jamestown Advanced Products.

Return Policy

Before returning any product, contact a customer service representative at 800-452-0639 to get a Returned Merchandise Authorization (RMA) number. This number must be placed on the outside of the returned package(s).

Returns without an RMA number will be subject to a 25% restocking fee, providing the criteria below has been met.* Returns within 30 days of receipt are exchanged or the purchase is refunded. Returns after 30 days from the invoice date with an RMA number are subject to a 25% restocking fee. No returns will be accepted after 60 days.

Return Policy Continued

*All parts must be returned in the original package and not be damaged and must be in re-sellable condition. Returns that are incomplete unit(s) will be billed for the missing parts before credit is issued. Credit will be issued only after inspection by our staff. Our return policy does not cover any products that are *made to order*. *All returns must be sent freight prepaid. We will not accept any package shipped C.O.D.*

Orders cancelled after product ships are subject to freight charges and/or restocking charges. Freight charges will be applied based on the actual costs, to and from, the shipping location and the original purchaser. Canceling or returning item(s) results in loss of free freight eligibility. You will be responsible for all freight charges.

Returned items may be shipped to: Jamestown Advanced Products, Corp., 2855 Girts Road, Jamestown, NY 14701

Damages

Damages are to be reported to Jamestown Advanced Products as soon as possible, or no later than five business days after receipt of shipment, per the signed bill of lading. Should product(s) become damaged during transit, it is the customer's responsibility to notify the carrier's agent and the carrier's agent acknowledgement of such damaged noted on the bill of lading. The customer is then to immediately notify Jamestown Advanced Products Corp. of such damage, and a claim will be filed.

Jamestown Advanced Products will not be responsible for charges incurred per the customer's request for outside service contractor to repair/alter/check any of our products without prior written approval.

Power Outlet Maintenance

We recommend that a preventative maintenance program be scheduled semi-annually that includes checking and tightening all connections. As well as performing all other standard electrical maintenance. A qualified, licensed electrician should be contacted to perform the check on all power outlets.

Product Warranty to the Original Purchaser

We at Jamestown Advanced Products Corporation are dedicated to providing our customers with prompt delivery, a high level of service, and quality products. In light of our commitment to our customers, we provide the following product warranty:

All products and components (excluding lumber) 5-year warranty against defects in materials and workmanship

under normal use. All Power Outlets and components have only a 1-year warranty against defects in materials and workmanship under normal use.

Warranty applies from the date of delivery. If a product or component fails during the warranty period, coverage is limited to repair by the manufacturer or replacement of the defective part, at the discretion of the manufacturer. Warranty claims must be filed within the warranty period, and must include a copy of the invoice or the purchase order.

The above warranties are valid only if the product: a) is assembled and installed according to manufacturer's specifications and instructions; b) has been properly maintained according to manufacturer's instructions; c) has not been altered by the addition or deletion of parts, or modified in any other manner; d) has not been subject to misuse, vandalism, negligence or damage by accident; e) buyer shall provide seller with a prompt written notice; f) buyer shall comply with such instructions as seller shall provide with respect to the return of the defective product; g) has not been shipped outside the Continental U.S. prior to claim.

Warranties to not cover: a) vandalism; b) damage caused by incorrect assembly, installation or application (use); c) natural or man-made disasters; d) cosmetic changes in the product due to weathering, including paint fading or burning off, or discoloration of wood; e) scratches, dents or marring caused by normal use or public exposure; f) season checks, twisting or splintering of wood caused by climactic differences or lack of proper maintenance; g) loss or damage in transit.

Lumber will be "industry standard;" lumber may or may not contain yard markings. Any objection to or complaint to the integrity of the lumber needs to be determined within one week for purchaser receipt of product. Except as specifically stated herein, all warranties (expressed or implied), including but not limited to any implied warranty of merchantability or fitness for a particular purpose, are hereby excluded. This warranty excludes any liability other than expressly stated, herein, including, but not limited to, any incidental or consequential damages.

At Jamestown Advanced Products Corporation, we are committed to protecting your privacy. To keep your personal, non-public information both personal and private, we have established the following policies:

- 1) We never sell your personal information to other companies for their independent marketing purposes.
- 2) We maintain physical and electronic safeguards to prevent unauthorized access to your personal information, and to protect you against the criminal misuse of that information.



3) We restrict access to your account (s) to only those employees involved in providing the services you've requested. All employees are required to keep your personal information confidential.

We collect information about you for two important reasons:

1) To identify you when you are conducting financial transactions, so we can help prevent unauthorized access to your personal and financial information.

Product Warranty to the Original Purchaser Continued

2) To offer you services that can help you achieve your goals.

What kind of information do we collect?

When meeting your needs, we collect the following non-public personal information about you:

1) When you fill out forms and applications for our products and services, we may collect information such as your name, address, credit card number and its expiration data.

2) When you apply for credit, we may collect account information and credit history from third parties such as credit bureaus.

How do we share information outside Jamestown Advanced Products?

In some cases, we are required or permitted by law to provide information about you to third parties without your consent. Examples include responding to a subpoena or similar legal process or providing information to consumer reporting agencies.



SUBSTITUTION REQUEST

Project: Urbana Elementary School Replacement-
Construction Stage 2 Phase B Substitution Request Number: 02
From: Jamestown Advanced Products
To: Oak Builders Contracting LLC. Date: 1/24/2019
A/E Project Number: 19C4
Re: Product Substitution Contract For: Frederick County Public Schools

Specification Title: Site and Street Furnishings Description: Products
Section: 323000 Page: 1-5 Article/Paragraph: 2.4 Benches

Proposed Substitution: Contour Bench with Recycled Plastic Slats, Pad Mount

Manufacturer: Jamestown Advanced Products Address: 2855 Girls Road, Jamestown, NY, 14701 Phone: (800)452-0639 x214

Trade Name: Site Furnishings Model No.: 11641-3

Installer: _____ Address: _____ Phone: _____

History: ☐ New product ☐ 2-5 years old ☒ 5-10 yrs old ☐ More than 10 years old

Differences between proposed substitution and specified product: Bench constructed with (8) 3"x4" Nominal Slats (Recycled Plastic or Treated/Untreated Lumber),

Third Support post required for recycled plastic benches, Support Posts are 2-1/2" Square Tube, Seat Brackets and Foot Mounting Brackets are 3/8" x 4" Bar Stock, Distance between end supports 52", 23-7/8" Bench Width, 33-3/8" Bench Height, 19-3/8" Seat Height,

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

Reason for not providing specified item: _____

Similar Installation:

Project: _____ Architect: _____

Address: _____ Owner: _____

_____ Date Installed: _____

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

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

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

Supporting Data Attached: ☒ Drawings ☒ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

SUBSTITUTION REQUEST (Continued)

The Undersigned certifies:

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

Submitted by: Brittany Green, Bid Specialist

Signed by: *Brittany Green*

Firm: Jamestown Advanced Products

Address: 2855 Girls Road, Jamestown, NY, 14701

Telephone: (800)452-0639 x214

Attachments: Submittal, Terms & Conditions

A/E's REVIEW AND ACTION

- ☐ Substitution approved - Make submittals in accordance with Specification Section 01330.
- ☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
- ☐ Substitution rejected - Use specified materials.
- ☐ Substitution Request received too late - Use specified materials.

Signed by:

Date:

Additional Comments:

☐ Contractor

☐ Subcontractor

☐ Supplier

☐ Manufacturer

☐ A/E

☐ _____



SUBSTITUTION REQUEST

Project: Urbana Elementary School Replacement-
Construction Stage 2 Phase B Substitution Request Number: 01
From: Jamestown Advanced Products
To: Oak Builders Contracting LLC. Date: 1/24/2019
A/E Project Number: 19C4
Re: Product Substitution Contract For: Frederick County Public Schools

Specification Title: Site and Street Furnishings Description: Products
Section: 323000 Page: 1-5 Article/Paragraph: 2.3 Bike Racks

Proposed Substitution: Kennedy Bike Rack
Manufacturer: Jamestown Advanced Products Address: 2855 Girls Road, Jamestown, NY, 14701 Phone: (800)452-0639 x214
Trade Name: Site Furnishings Model No.: 13143-1-2
Installer: _____ Address: _____ Phone: _____

History: ☐ New product ☐ 2-5 years old ☒ 5-10 yrs old ☐ More than 10 years old

Differences between proposed substitution and specified product: Our bike rack outside width is 23" and inside width is 15" versus the spec'd model's dimensions of 22" and 17-1/4".

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

Reason for not providing specified item: _____

Similar Installation:

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

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

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

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

Supporting Data Attached: ☒ Drawings ☒ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

SUBSTITUTION REQUEST (Continued)

The Undersigned certifies:

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

Submitted by: Brittany Green, Bid Specialist

Signed by:

Brittany Green

Firm:

Jamestown Advanced Products

Address:

2855 Girls Road, Jamestown, NY, 14701

Telephone:

(800)452-0639 x214

Attachments:

Submittal, Terms & Conditions

A/E's REVIEW AND ACTION

- ☐ Substitution approved - Make submittals in accordance with Specification Section 01330.
- ☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
- ☐ Substitution rejected - Use specified materials.
- ☐ Substitution Request received too late - Use specified materials.

Signed by:

Date:

Additional Comments:

☐

Contractor

☐

Subcontractor

☐

Supplier

☐

Manufacturer

☐

A/E

☐



SUBSTITUTION REQUEST

Project: Urbana Elementary School Replacement-
Construction Stage 2 Phase B Substitution Request Number: 02
From: Jamestown Advanced Products
To: Oak Builders Contracting LLC. Date: 1/24/2019
A/E Project Number: 19C4
Re: Product Substitution Contract For: Frederick County Public Schools

Specification Title: Site and Street Furnishings Description: Products
Section: 323000 Page: 1-5 Article/Paragraph: 2.5 Trash Receptacles

Proposed Substitution: Round Ribbon Trash Receptacle

Manufacturer: Jamestown Advanced Products Address: 2855 Girts Road, Jamestown, NY, 14701 Phone: (800)452-0639 x214

Trade Name: Site Furnishings Model No.: 17022-SP

Installer: _____ Address: _____ Phone: _____

History: ☐ New product ☐ 2-5 years old ☒ 5-10 yrs old ☐ More than 10 years old

Differences between proposed substitution and specified product: Receptacle is constructed of 3/16" HRPO steel & 5/8" A36 steel rod capping the top of the unit,
28" Top Diameter, 24-3/8" Bottom Diameter, 38-1/4" Height, Flat Removable lid Constructed from 16 ga. steel (Not Pictured on Submittal), Decals for Trash/Recycling Receptacle available for
an upcharge, Door incorporated into Trash Receptacle Design for easy removal of interior 36 Gallon Liner.

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

Reason for not providing specified item: _____

Similar Installation:

Project: _____ Architect: _____

Address: _____ Owner: _____

_____ Date Installed: _____

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

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

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

Supporting Data Attached: ☒ Drawings ☒ Product Data ☐ Samples ☐ Tests ☐ Reports ☐ _____

SUBSTITUTION REQUEST (Continued)

The Undersigned certifies:

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

Submitted by: Brittany Green, Bid Specialist

Signed by: *Brittany Green*

Firm: Jamestown Advanced Products

Address: 2855 Girls Road, Jamestown, NY, 14701

Telephone: (800)452-0639 x214

Attachments: Submittal, Terms & Conditions

A/E's REVIEW AND ACTION

- ☐ Substitution approved - Make submittals in accordance with Specification Section 01330.
☐ Substitution approved as noted - Make submittals in accordance with Specification Section 01330.
☐ Substitution rejected - Use specified materials.
☐ Substitution Request received too late - Use specified materials.

Signed by:

Date:

Additional Comments:

☐ Contractor

☐ Subcontractor

☐ Supplier

☐ Manufacturer

☐ A/E

☐ _____

Supplier/Manufacturer Substitution Request Form

To: Frederick County Public Schools

Project: Urbana Elementary School Replacement-
Construction Stage 2- Phase B Project, Invitation #- 19C4

Address: 191 S. East St. Frederick, MD 21701

Attention: Amy Beall

Phone: 301-644-5201

E-Mail: amy.beall@fcps.org

Bid Date: February 20, 2019

Item Specified:

Specified Model and Manufacturer	Quoting Jamestown Model Number	Jamestown's Description	Jamestown's Price
Victor Stanley- BRWS-101	13143-1-2	Kennedy, 2 Bike, Dual Sided Rack, Powder Coated, In- Ground Mount	\$80
Victor Stanley- Homestead 32	11641-3	6', Contour Bench, Powder Coated Frames, Recycled Plastic Lumber, Pad Mount	\$746
Victor Stanley- ES- 242	17022-SP	36 Gallon, Round Ribbon Trash Receptacle, Flat Lid, Powder Coated. with 36 Gallon Trash Liner	\$945

Proposed Substitution:



Jamestown Advanced Products
2855 Girts Road
Jamestown, NY 14701
800-452-0639 | www.JamestownAdvanced.com

- A. Does the substitution affect dimensions shown on the drawings? No
- B. Will the undersigned pay for changes to the building designs, including engineering and detailing costs caused by the requested substitution? No
- C. What effect does the substitution have on other trades? None
- D. What are the differences between the proposed substitution and the specified item? Please see the attached submittal packet.
- E. In what respect are the Manufacturer's guarantees different for the proposed substitute compared to the guarantees for the specified item? All products and components (excluding lumber) have a 5-year warranty against defects in materials and workmanship under normal use. Please see attached full Terms & Conditions.

Supplier/Manufacturer Substitution Request Form

To: Frederick County Public Schools

Address: 191 S. East St. Frederick, MD 21701

Attention: Amy Beall

Phone: 301-644-5201

E-Mail: amy.beall@fcps.org

Project: Urbana Elementary School Replacement-
Construction Stage 2- Phase B Project, Invitation #- 19C4

Bid Date: February 20, 2019

***If you have questions or require further explanation,
Please do not hesitate to contact me.***

Brittany Green, Bid Specialist
Jamestown Advanced Products
2855 Girts Road
Jamestown, NY 14701
800-452-0639 ext. 214

For Use By Architect Only:

☐ Accepted ☐ Accepted as noted

☐ Not accepted ☐ Received too late

☐ Accepted for bidding. Subject to review and acceptance of submittal.

Reviewed by: _____

Date: _____

Notes:



Request For Information ST2 PB-007

Urbana Elementary School Replacement
3554 Urbana Pike
Frederick, Maryland 21704

Project # 1707
Tel: Fax:

RFI #: ST2 PB-007		Date Created: 1/24/2019	
Answer Company	Answered By	Author Company	Authored By
Oak Contracting, LLC 1000 Cromwell Bridge Road Towson, MD 21286	Dave Toth Phone: 410-828-1000 Fax: 410-828-7488	Oak Contracting, LLC 1000 Cromwell Bridge Road Towson, MD 21286	Kerrigan Toth Phone: 410-828-1000 Fax: 410-828-7488
Co-Respondent		Author RFI Number	

Subject	Discipline	Category
Manufacturer inquiry	Electrical	Specification Clarification
Cc: Company Name	Contact Name	Copies Notes

Question	Date Required:
See attached questions from High Performance Cabling Corporation in accordance with Specification Section 275123 - Integrated Telecommunications System.	
Question #1: What is the manufacturer of FCPS' provided Headend and Cabinet?	
Question #2: Is FCPS open to having the contractor provide the headend equipment and cabinet?	
Suggestion	

Answer	Date Answered: 1/24/2019
Answer to Question #1: Per FCPS: FCPS Construction Management has been directed to directly procure a Telecor PA System (Head End) for the Contractor to install and provide the associated equipment as specified.	
Answer to Question #2: Per FCPS: At this time the answer is no on the prospective Contractors providing a complete turnkey system. FCPS Construction Management reserves the right to revisit this item with the successful Contractor contingent upon the economics of the Project.	



Request For Information ST2 PB-008

Urbana Elementary School Replacement
3554 Urbana Pike
Frederick, Maryland 21704

Project # 1707
Tel: Fax:

RFI #: ST2 PB-008		Date Created: 1/24/2019	
Answer Company	Answered By	Author Company	Authored By
Oak Contracting, LLC 1000 Cromwell Bridge Road Towson, MD 21286	Dave Toth Phone: 410-828-1000 Fax: 410-828-7488	Oak Contracting, LLC 1000 Cromwell Bridge Road Towson, MD 21286	Kerrigan Toth Phone: 410-828-1000 Fax: 410-828-7488
Co-Respondent		Author RFI Number	

Subject	Discipline	Category
Platform curtains	Architectural	Other
Cc: Company Name	Contact Name	Copies Notes

Question	Date Required:
In which phase will the Platform Curtains be bidding in for the Urbana Elementary School?	
Suggestion	

Answer	Date Answered: 1/23/2019
The Platform Curtains are included in the 6A Contract Scope of Work and will be required in Stage 2 Phase B.	



Request For Information ST2 PB-009

Urbana Elementary School Replacement
3554 Urbana Pike
Frederick, Maryland 21704

Project # 1707
Tel: Fax:

RFI #: ST2 PB-009		Date Created: 1/28/2019	
Answer Company	Answered By	Author Company	Authored By
Oak Contracting, LLC 1000 Cromwell Bridge Road Towson, MD 21286	Dave Toth Phone: 410-828-1000 Fax: 410-828-7488	Oak Contracting, LLC 1000 Cromwell Bridge Road Towson, MD 21286	Kerrigan Toth Phone: 410-828-1000 Fax: 410-828-7488
Co-Respondent		Author RFI Number	

Subject	Discipline	Category
Playground equipment	Civil	Drawing / Spec Discrepancy
Cc: Company Name	Contact Name	Copies Notes

Question	Date Required: 2/4/2019
What are the specifications regarding the playground equipment, including age and surfacing/drainage details?	
Suggestion	

Answer	Date Answered: 1/28/2019
Specifications for the Playground Equipment are included in Section 32 30 10. The Specification is mislabelled as "Base-Mounted Pumping Station" in the footer. This will be corrected in a future Addendum.	

Frederick County Public Schools

MBE Subcontractor Payment Verification Form – CMA

Project: _____

Construction Manager: _____

Prime Contractor: _____

MBE Subcontractor: _____

MDOT Certification #: _____

MBE Classification: _____

Contract Amount: _____

Change Order Amount: _____

Current Contract Amount: _____

Total Paid to Date: _____

Remaining Contract Balance: _____

The UNDERSIGNED MBE SUBCONTRACTOR verifies that Total Paid to Date amount of indicated above is current as of this Requisition and hereby waives and releases any and all actions, debts, claims and demands against _____, its surety, their respective successors and assigns, Oak Contracting, LLC, and Frederick County Public Schools on account of all work, services, labor, equipment and materials performed or furnished to date on the above referenced Project and/or in connection with the construction of a building improvements and facilities on real property of Frederick County Public Schools for the above referenced project and hereby waives and releases any mechanics, materialsmen or like liens, and all rights to file any such lien, against said real property owner on account of said work, services, labor, equipment and materials performed or furnished by MBE SUBCONTRACTOR.

The UNDERSIGNED PRIME CONTRACTOR verifies that the MBE Subcontractors prior monthly payment was in the amount indicated on the IAC/PSCP Form 306.4 – Page 3 of 16 previously submitted, then you are to attach a letter addressed to the FCPS MBE Liaison (Steve Starmer) to this form with explanation of the payment discrepancy with any and all supporting documentation necessary (i.e. Deduct Change Order).

I hereby certify, under penalties of perjury, that the facts, information and representations set forth herein are true and accurate to the best of my knowledge, information and belief.

Prime Contractor: _____

By (Signature): _____

Printed Name: _____

Dated: _____

The affidavit represents that the undersigned has authority to execute a waiver of lien on behalf of the MBE Subcontractor.

MBE Subcontractor: _____

By (Signature): _____

Printed Name: _____

Dated: _____



January 25, 2019

**URBANA ELEMENTARY SCHOOL REPLACEMENT
BID PACKAGE
ADDENDUM NO. 1
21740.00**

TO THE CONTRACT DRAWINGS AND SPECIFICATIONS FOR THE REFERENCED PROJECT, DATED JANUARY 10, 2019, AS PREPARED BY GRIMM AND PARKER ARCHITECTS, 11720 BELTSVILLE DRIVE, SUITE 600, CALVERTON, MARYLAND 20705.

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

SPECIFICATION ITEMS:

- | | | |
|--|---|-----------------------------|
| ITEM NO. 1:
01 30 00-6
SUBSTITUTE | SECTION 01 30 00
Paragraph 3.6
B. Structural Shop Drawings: Provide two paper (hard) copies of all Shop Drawings required by Sections 05 12 00, 05 21 00, 05 31 00, 05 40 00, 05 44 00, 05 50 00, 05 51 00, 05 51 19 and 05 52 13 in addition to electronic submissions for review. These paper copies will not be returned. Review comments will be provided on the electronic submission. | ADMINISTRATIVE REQUIREMENTS |
| DELETE | Paragraph D. | |
| ITEM NO. 2:
05 50 00-7
ADD | SECTION 05 50 00
Paragraph 2.13
C. Hot-dipped galvanized grating may be substituted. | METAL FABRICATIONS |
| ITEM NO. 3:
10 14 00-5
SUBSTITUTE | SECTION 10 14 00
Paragraph 2.5
B. Interior Locations: Provide ER signage mounted on the top of the door frame, centered on the door, at all exterior doors and in all interior rooms. Exterior doors shall display the corresponding designation indicated on the exterior door sign. Interior doors shall display the room number. The interior door signs shall be 2 inches high by 3 inches wide of the same materials specified for the exterior ER signs. | SIGNAGE |
| 10 14 00-5
ADD | Paragraph 2.6.A.1
b. Watchfire. | |
| ITEM NO. 4:
10 50 00-2
SUBSTITUTE | SECTION 10 50 00
Paragraph 2.3.G.2
At Student Lockers: The latching mechanism shall be finger lift control type constructed of 14 gauge (minimum) steel with a nylon cover that has a generous finger pull. Spring activated nylon slide latches shall be completely enclosed in the lock channel allowing doors to close with the lock in the locked position. Locking device shall be designed for use with padlocks. Provide three latch hooks for doors 48" and over and two for doors under 48". Padlocks to be supplied by Owner. | LOCKERS |

Grimm + Parker Architects

11720 Beltsville Dr, Ste #600
Calverton, MD 20705
Tel: 301.595.1000

Visit online at grimmandparker.com

Calverton Tysons Charlottesville



ITEM NO. 5: 14 24 00-1 REVISE ADD 14 24 00-8 ADD	SECTION 14 24 00 Paragraph 1.2 G. Rated Capacity: 3,000 lbs. W. Emergency Battery Power Supply. Paragraph 2.8.C 4. Emergency Battery Power Supply: When the main line power is lost for longer than 5 seconds the emergency battery power supply provides power automatically to the elevator controller. The elevator will rise or lower to the first available landing, open the doors, and shut down. The elevator will return to service upon the return of normal main line power. An auxiliary contact on the main line disconnect and shunt trip breaker (if used) will be provided by others.	PASSENGER ELEVATORS
ITEM NO. 6: 224216.13-2 REVISE	SECTION 224216.13 Paragraph 2.1.A.3 Deck Edge Accessories: Solid surface integral coved backsplash <i>and solid surface aprons on all exposed sides.</i>	COMMERCIAL LAVATORIES
ITEM NO. 7: 232113-4 ADD	SECTION 23 21 13 Paragraph 2.2 H. Grooved Mechanical Joint Fittings and Couplings: Rigid type, hot dipped galvanized coating with stainless steel bolts and nuts. 1. Grooved Joint Couplings: MI or Two ductile iron housings, pressure responsive elastmer gasket, and ASTM A449 zinc electroplated steel bolts and nuts. Couplings shall comply with ASTM F1476 Standard Specification for the Performance of Gasketed Mechanical Couplings for Use in Piping Applications. a. Rigid Type: Coupling housings shall be cast with offsetting, angle-pattern bolt pads to provide joint rigidity and support and hanging in accordance with ASNI B31.1 and B31.9. i. Victaulic Style 107H, Installation-Ready or approved equal, for direct stab installation without field disassembly, with grade EHP gasket, suitable for water service to +250 degrees F. ii. Victaulic Style 07 "Zero-Flex" or approved equal. b. Flexible Type: For use in locations where vibration attenuation and stress relief are required, and for the elimination of flexible connectors. Victaulic Installation-Ready Style 177 or Style 77, or approved equal. c. Flange adapters shall be suitable for direct connection to ANSI Class 125 or 150 flanged components. Victaulic Style 741/W741, or approved equal. d. MI or ductile iron. Rolled form grooves only. Cut grooves are prohibited. e. Verify gasket compatibility on Chemical Treatment piping.	HYDRONIC PIPING
ITEM NO. 8: 260543-1 DELETE 260543-4 DELETE 260543-8 DELETE	SECTION 260543 Paragraph 1.4.A 5. Warning planks. Paragraph 2.2.C Paragraph 3. Paragraph 3.3.I Paragraph 11. Warning Planks.	UNDERGROUND DUCTBANKS

ITEM NO. 9:	SECTION 262743	ELECTRIC VEHICLE SERVICE EQUIPMENT - AC- LEVEL 1 AND LEVEL 2
262743-1 ADD	Paragraph 1.8.A 1. (2) Retractable Cord Assemblies. 2. (2) Lan Head, Dual Port, US & Canada with (2) 18ft Charging Cables 3. (2) Bollard Mount Caps.	
262743-3 DELETE	Paragraph 2.2.F Paragraph 1.	
CLARIFY	Dual vehicle charging stations to be provided.	
262743-4 SUBSTITUTE	Paragraph 2.3.M 1. LAN Communications : 802.11 b/g/n.	
SUBSTITUTE	2. Capable of remote configuration and reporting.	
DELETE	Paragraph 3.	
ITEM NO. 10:	SECTION 263213	ENGINE GENERATORS
263213-3 ADD	Paragraph 2.1.A. 4. Generac.	
ITEM NO. 11:	SECTION 265100	INTERIOR LIGHTING
265100-4 REVISE	Paragraph 2.1.A.2 Basis of Design Product: The design of each item of <i>interior</i> luminaire and its support is based on the first product named. Subject to compliance with requirements, provide either the named product or a comparable product by one of the other manufacturers specified.	
ITEM NO. 12:	SECTION 265600	EXTERIOR LIGHTING
265600-4 SUBSTITUTE	Paragraph 2.1.A.1 Available Manufacturers: Subject to compliance with requirements, manufacturers offering products that may be incorporated into the Work include, but are limited to, manufacturers specified per the Lighting Fixture Schedule.	

DRAWING ITEMS: **TITLE SHEET**

ITEM NO. TS1:	<u>SHEET TS-2</u>	<u>LIST OF DRAWINGS</u>
SUBSTITUTE	Entire sheet with sheet included with this addendum.	

DRAWING ITEMS: **ARCHITECTURAL**

ITEM NO. A1:	<u>SHEET A-1.1</u>	<u>PARTIAL FIRST FLOOR PLAN – AREA A</u>
SUBSTITUTE	Entire sheet with sheet included with this addendum.	
ITEM NO. A2:	<u>SHEET A-1.3</u>	<u>PARTIAL FIRST FLOOR PLAN – AREA C1</u>
ADD	Dimension at screen wall per sketch SKA-1.3.1.	
ITEM NO. A3:	<u>SHEET A-1.6</u>	<u>PARTIAL SECOND FLOOR PLAN – AREA B</u>
REVISE	Plan per sketch SKA-1.6.1.	
SUBSTITUTE	Entire sheet with sheet included with this addendum.	
ITEM NO. A4:	<u>SHEET A-1.7</u>	<u>PARTIAL SECOND FLOOR PLAN – AREA C1</u>
SUBSTITUTE	Entire sheet with sheet included with this addendum.	

ITEM NO. A5: SUBSTITUTE	<u>SHEET A-1.11</u> <u>ROOF DETAILS</u> Entire sheet with sheet included with this addendum.
ITEM NO. A6: SUBSTITUTE	<u>SHEET A-1.12</u> <u>ROOF DETAILS</u> Entire sheet with sheet included with this addendum.
ITEM NO. A7: SUBSTITUTE	<u>SHEET A-2.1</u> <u>EXTERIOR ELEVATIONS</u> Entire sheet with sheet included with this addendum.
ITEM NO. A8: REVISE	<u>SHEET A-2.2</u> <u>EXTERIOR ELEVATIONS</u> Detail H11 per sketch SKA-2.2.1.
ITEM NO. A9: SUBSTITUTE	<u>SHEET A-2.4</u> <u>EXTERIOR ELEVATIONS</u> Entire sheet with sheet included with this addendum.
ITEM NO. A10: SUBSTITUTE	<u>SHEET A-3.6</u> <u>FRAME ELEVATIONS</u> Entire sheet with sheet included with this addendum.
ITEM NO. A11: CLARIFY	<u>SHEET A-3.7</u> <u>EXTERIOR STUD HEAD, SILL AND JAMB DETAILS</u> Solid surface sills to be natural quartz and resin composite, typical, as specified in section 12 36 00.
ITEM NO. A12: CLARIFY	<u>SHEET A-3.8</u> <u>EXTERIOR CMU HEAD, SILL AND JAMB DETAILS</u> Solid surface sills to be natural quartz and resin composite, typical, as specified in section 12 36 00.
ITEM NO. A13: CLARIFY	<u>SHEET A-3.9</u> <u>EXT. STUD W/MTL PANEL HEAD, SILL AND JAMB DETAILS</u> Solid surface sills to be natural quartz and resin composite, typical, as specified in section 12 36 00.
ITEM NO. A14: CLARIFY	<u>SHEET A-3.10</u> <u>EXT. CMU W/MTL PANEL HEAD, SILL AND JAMB DETAILS</u> Solid surface sills to be natural quartz and resin composite, typical, as specified in section 12 36 00.
ITEM NO. A15: REVISE	<u>SHEET A-4.5</u> <u>WALL SECTIONS</u> Elevation at detail A18 per sketch SKA-4.5
ITEM NO. A16: REVISE	<u>SHEET A-4.6</u> <u>WALL SECTIONS</u> Detail A16 per sketch SKA-4.6.1.
ITEM NO. A17: REVISE	<u>SHEET A-4.7</u> <u>WALL SECTIONS</u> Detail A4 per sketch SKA-4.7.1.
ITEM NO. A18: SUBSTITUTE	<u>SHEET A-5.3</u> <u>STAIR DETAILS</u> Entire sheet with sheet included with this addendum.
ITEM NO. A19: REVISE	<u>SHEET A-5.6</u> <u>PLAN DETAILS</u> Plan Detail A7 per sketch SKA-5.6.1.
ITEM NO. A20: SUBSTITUTE	<u>SHEET A-7.1</u> <u>REFLECTED CEILING PLAN – FIRST FLOOR – AREA A</u> Entire sheet with sheet included with this addendum.



ITEM NO. A21: SHEET A-9.3 PARTIAL FIRST FLOOR FURNISHING PLAN – AREA C1
SUBSTITUTE Entire sheet with sheet included with this addendum.

DRAWING ITEMS: **MECHANICAL**

ITEM NO. M1: SHEET M-2.1 PARTIAL FIRST FLOOR PLAN – AREA A
SUBSTITUTE Entire sheet with sheet included with this addendum. Revisions include the following:
ADD CO₂ sensors in Kindergarten-A125, A123, A119, A117, A124, Pre-K-A120, A116, Media Broad.-A111, Conference Room-A107, and Reception-A101.
REVISE Ductwork, diffuser, and VRF ceiling cassette location in Health-A102.
REVISE VRF type in Kindergarten-A124 and Pre-K-A120 and A116.

ITEM NO. M2: SHEET M-2.2 PARTIAL FIRST FLOOR PLAN – AREA B
SUBSTITUTE Entire sheet with sheet included with this addendum. Revisions include the following:
ADD CO₂ sensors in Planning-B109, Classroom-B107, B103, B116, B112, B110, Special Ed Classroom-B106, ELL-B118, Calming Room-B104A, Conference-B101B, Media Center-B101, Maker Space-B101E.

ITEM NO. M3: SHEET M-2.3 PARTIAL FIRST FLOOR PLAN – AREA C1
SUBSTITUTE Entire sheet with sheet included with this addendum. Revisions include the following:
ADD CO₂ sensors in Art-C101, C102, Vocal Music-C104, and Platform-C110.
ADD VRF ceiling cassette to Art-C101 and C102.
REVISE VRF type and location in Art-C101 and C102.
REVISE VRF type in Vocal Music-C104.

ITEM NO. M4: SHEET M-2.4 PARTIAL FIRST FLOOR PLAN – AREA C2
SUBSTITUTE Entire sheet with sheet included with this addendum. Revisions include the following:
ADD Note 17 indicating custom return register based on KEES LA100 for the Main Gym return registers.
ADD CO₂ sensor in Cust. Office/Locker-C123.
REVISE Gym return air ductwork and grille locations as shown, to be installed between structural beams.

ITEM NO. M5: SHEET M-2.5 PARTIAL SECOND FLOOR PLAN – AREA A
SUBSTITUTE Entire sheet with sheet included with this addendum. Revisions include the following:
ADD CO₂ sensors in Intervention (LLS)-A227, Planning-A223, Classroom-A221, A217, A215, A211, A209, A220, A216, A214, A210, A208, Reading Office-A205, Special Education Resource-A201.

ITEM NO. M6: SHEET M-2.6 PARTIAL SECOND FLOOR PLAN – AREA B
SUBSTITUTE Entire sheet with sheet included with this addendum. Revisions include the following:
ADD CO₂ sensors in Planning-B221, Classroom-B219, B215, B213, B209, B207, B222, B220, B216, B214, B210, Sensory Room-B211, Special Education Resource-B201, Speech/ Language & Itinerant Services-B203, Planning/Storage-B208.



ITEM NO. M7:	<u>SHEET M-2.7</u>	<u>PARTIAL SECOND FLOOR PLAN – AREA C1</u>
ADD	CO ₂ sensors in Reading/Intervention-C201 and Planning-C203. Refer to sketch SKM-2.7.1.	
ITEM NO. M8:	<u>SHEET M-2.8</u>	<u>PARTIAL SECOND FLOOR PLAN – AREA C2</u>
ADD	CO ₂ sensors in Math Office/Intervention-C205 and Maker Space-C207. Refer to sketch SKM-2.8.1.	
ITEM NO. M9:	<u>SHEET M-7.5</u>	<u>MECHANICAL DETAILS</u>
SUBSTITUTE	Entire sheet with sheet included with this addendum. Revisions include the following:	
REVISE	Detail 47 and 51 to reflect updated VRF schedules.	
ITEM NO. M10:	<u>SHEET M-8.1</u>	<u>CONTROLS COVER SHEET</u>
SUBSTITUTE	Entire sheet with sheet included with this addendum. Revisions include the following:	
ADD	Vehicle Charging Stations to Master I/O Summary	
ITEM NO. M11:	<u>SHEET M-8.3</u>	<u>DEDICATED OUTSIDE AIR SYSTEM CONTROL DIAGRAM</u>
SUBSTITUTE	Entire sheet with sheet included with this addendum. Revisions include the following:	
REVISE	Control sequence to include space carbon dioxide controls for DOAS units.	
ITEM NO. M12:	<u>SHEET M-8.7</u>	<u>SECOND FLOOR PLAN – AUTOMATIC TEMPERATURE CONTROLS</u>
ADD	Entire sheet with sheet included with this addendum.	
ITEM NO. M13:	<u>SHEET M-9.1</u>	<u>MECHANICAL SCHEDULES</u>
REVISE	Minimum outside air CFM for all units on the Dedicated Outside Air System Schedule. Refer to sketch SKM-9.1.1.	
ITEM NO. M14:	<u>SHEET M-9.2</u>	<u>MECHANICAL SCHEDULES</u>
SUBSTITUTE	Entire sheet with sheet included with this addendum. Revisions include the following:	
REVISE	VRF-1.06, 1.07, 1.08, 1.30, 1.31, 1.32, 5.03, 5.04, 5.05, and 5.09 on Variable Refrigerant Fan Coil Schedule	
ADD	VRF-5.14 and 5.15 on Variable Refrigerant Fan Coil Schedule.	

DRAWING ITEMS: **PLUMBING**

ITEM NO. P1:	<u>SHEET P-2.1</u>	<u>PARTIAL FIRST FLOOR PLAN – AREA A</u>
SUBSTITUTE	Entire sheet with sheet included with this addendum. Revisions include the following:	
REVISE	Toilet A102B Lavatory location and associated piping revised.	
REVISE	Health A102 VRFC location and CD piping revised.	
ITEM NO. P2:	<u>SHEET P-2.3</u>	<u>PARTIAL FIRST FLOOR PLAN – AREA C1</u>
REVISE	Girls Toilet C113 Washfountain P3D revise to P3C.	
REVISE	Boys Toilet C112 Washfountain P3D revise to P3C.	
REVISE	Girls Toilet C109 Washfountain P3D revise to P3C.	
REVISE	Boys Toilet C108 Washfountain P3D revise to P3C.	
REVISE	Family Toilet C115 Lavatory P3C revise to P3B.	

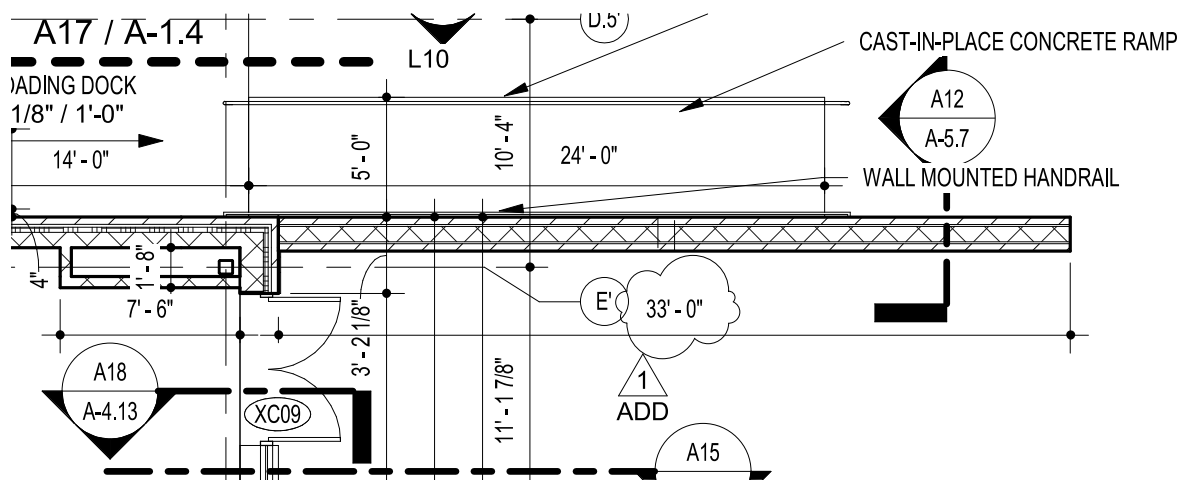
REVISE	Art C101 VRFC CD piping. Refer to sketch SKP-2.3.1.
REVISE	Art C102 VRFC CD piping. Refer to sketch SKP-2.3.1.
ADD	Art C101 VRFC and associated CD piping. Refer to sketch SKP-2.3.1.
ADD	Art C102 VRFC and associated CD piping. Refer to sketch SKP-2.3.1.
ITEM NO. P3:	<u>SHEET P-2.4</u> <u>PARTIAL FIRST FLOOR PLAN – AREA C2</u>
REVISE	Toilet C124 Washfountain P3D revise to P3C.
REVISE	Toilet C125 Washfountain P3D revise to P3C.
ITEM NO. P4:	<u>SHEET P-7.2</u> <u>PLUMBING EQUIPMENT DETAILS</u>
SUBSTITUTE	Entire sheet with sheet included with this addendum. Revisions include the following:
REVISE	Detail 27 – RADON VENT PIPING DETAIL

DRAWING ITEMS: **ELECTRICAL**

ITEM NO. E1:	<u>SHEET E-0.1</u> <u>LEGEND, SCHEDULES & ABBREVIATIONS</u>
ADD	Electric Vehicle Car Charging Station Installation Detail. Refer to Sketch E-0.1.1 for additional information.
ADD	Subscript “CR” to junction box under Power portion of Legend for “Cord Reel”.
ITEM NO. E2:	<u>SHEET E-0.2</u> <u>LIGHTING FIXTURE SCHEDULE</u>
REVISE	The Interior Lighting Fixture Schedule, Fixture Type AC, the second named from Manufacturer’s Catalogue No. to Waldemann PARA.MI Series Avenue LED Series.
ITEM NO. E3:	<u>SHEET E-1.1</u> <u>PARTIAL FIRST FLOOR PLAN – AREA A - POWER</u>
ADD	Junction box for card reader at MDF A110B on circuit E2CA-11 with Drawing Note 10 reference. Refer to Sketch E-1.1.1 for additional information.
REVISE	Location of receptacles in Toilet A102B, Storage A102C and Health A102 per architectural revisions. Refer to Sketch E-1.1.1 for additional information.
ADD	Drawing Note 25. Refer to Sketch E-1.1.2 for additional information.
ADD	Contactor with Drawing Note 25 reference to Electrical A114A for Electric Vehicle Car Charging. Refer to Sketch E-1.1.2 for additional information.
ITEM NO. E4:	<u>SHEET E-1.2</u> <u>PARTIAL FIRST FLOOR PLAN – AREA B - POWER</u>
ADD	Junction box for card reader at IDF B102A on circuit E2CB-3 with Drawing Note 8 reference. Refer to Sketch E-1.2.1 for additional information.
ITEM NO. E5:	<u>SHEET E-1.3</u> <u>PARTIAL FIRST FLOOR PLAN – AREA C1 - POWER</u>
REVISE	Locations of VRF-5.03 in Art C101 and VRF-5.04 in Art C102. Refer to Sketch E-1.3.1 for additional information.
ADD	VRF-5.14 in Art C101 and VRF-5.15 in Art C102. Refer to Sketch E-1.3.1 for additional information.
ITEM NO. E6:	<u>SHEET E-2.1</u> <u>PARTIAL FIRST FLOOR PLAN – AREA A – LIGHTING</u>
REVISE	Locations of lighting fixture Type A in Health A102, light switches in Toilet A102B and Storage A102C per architectural revisions. Refer to Sketch E-2.1.1 for additional information.
ADD	Drawing Note 10. Refer to Sketch E-2.1.1 for additional information.



- ITEM NO. E7: SHEET E-3.1 PARTIAL FIRST FLOOR PLAN – AREA A – FIRE ALARM
REVISE Locations of Fire Alarm devices in Health A102, Toilet A102B and Storage A102C per architectural revisions. Refer to Sketch E-3.1.1 for additional information.
- ITEM NO. E8: SHEET E-6.3 LIGHTING CONTROL SCHEDULES AND RISER DIAGRAM
ADD Power Cord Reel Detail. Refer to Sketch E-6.3.1 for additional information.
- ITEM NO. E9: SHEET E-7.1 PANEL SCHEDULES
ADD VRF-5.14 and VRF-5.15 to circuit R1C-29 Description.
- ITEM NO. E10: SHEET E-8.1 MECHANICAL EQUIPMENT CONNECTION SCHEDULE
ADD VRF-5.14, VRF-5.15 and Note 16 to Schedule. Refer to Sketch E-8.1.1 for additional information.



URBANA ELEMENTARY SCHOOL REPLACEMENT

REVISION TO SHEET A-1.3

SCALE
1/8"=1'-0"

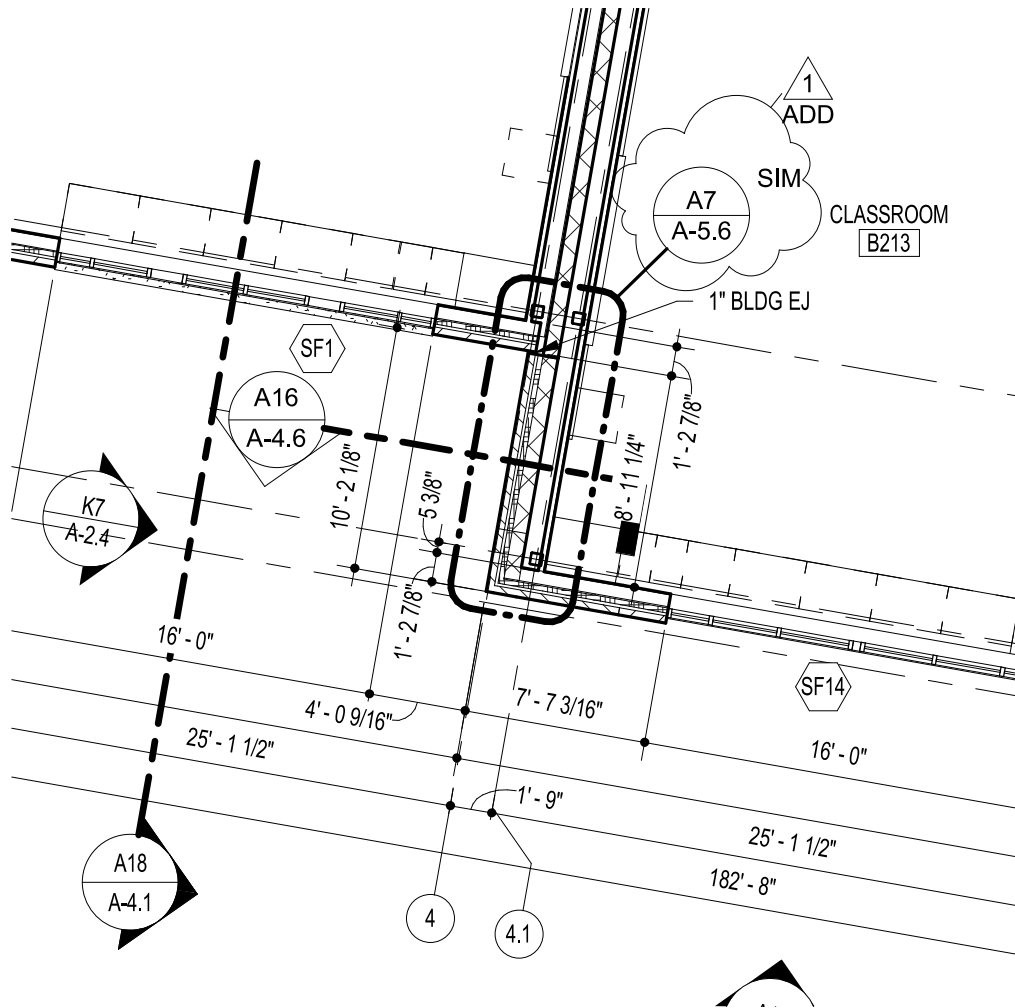
DATE
01/25/19

ADD 01
SKA-1.3.1



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URBANA ELEMENTARY SCHOOL REPLACEMENT

REVISION TO SHEET A-1.6

SCALE
1/8"=1'-0"

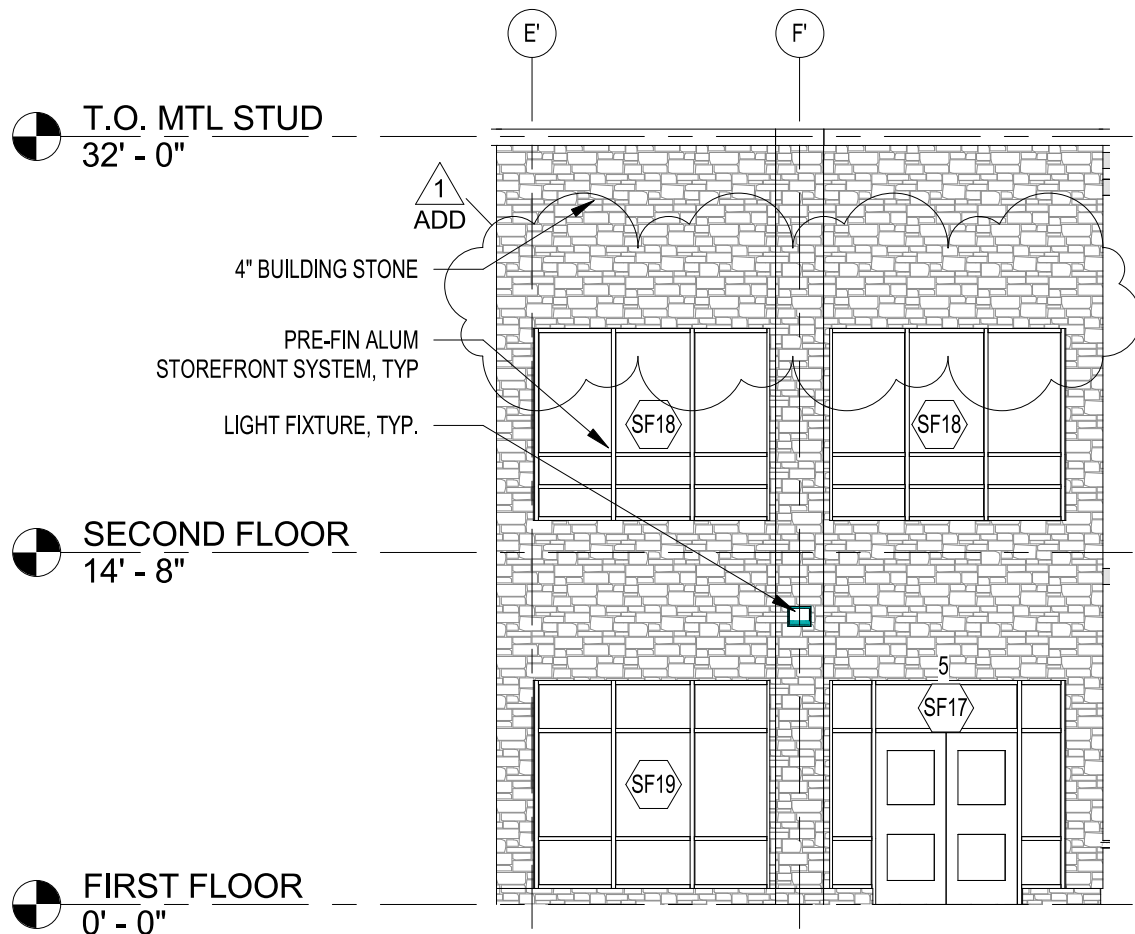
DATE
01/25/19

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SKA-1.6.1



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H11 PARTIAL EAST ELEVATION 4

1/8" = 1'-0"

URBANA ELEMENTARY SCHOOL REPLACEMENT

REVISION TO SHEET A-2.2

SCALE
1/8"=1'-0"

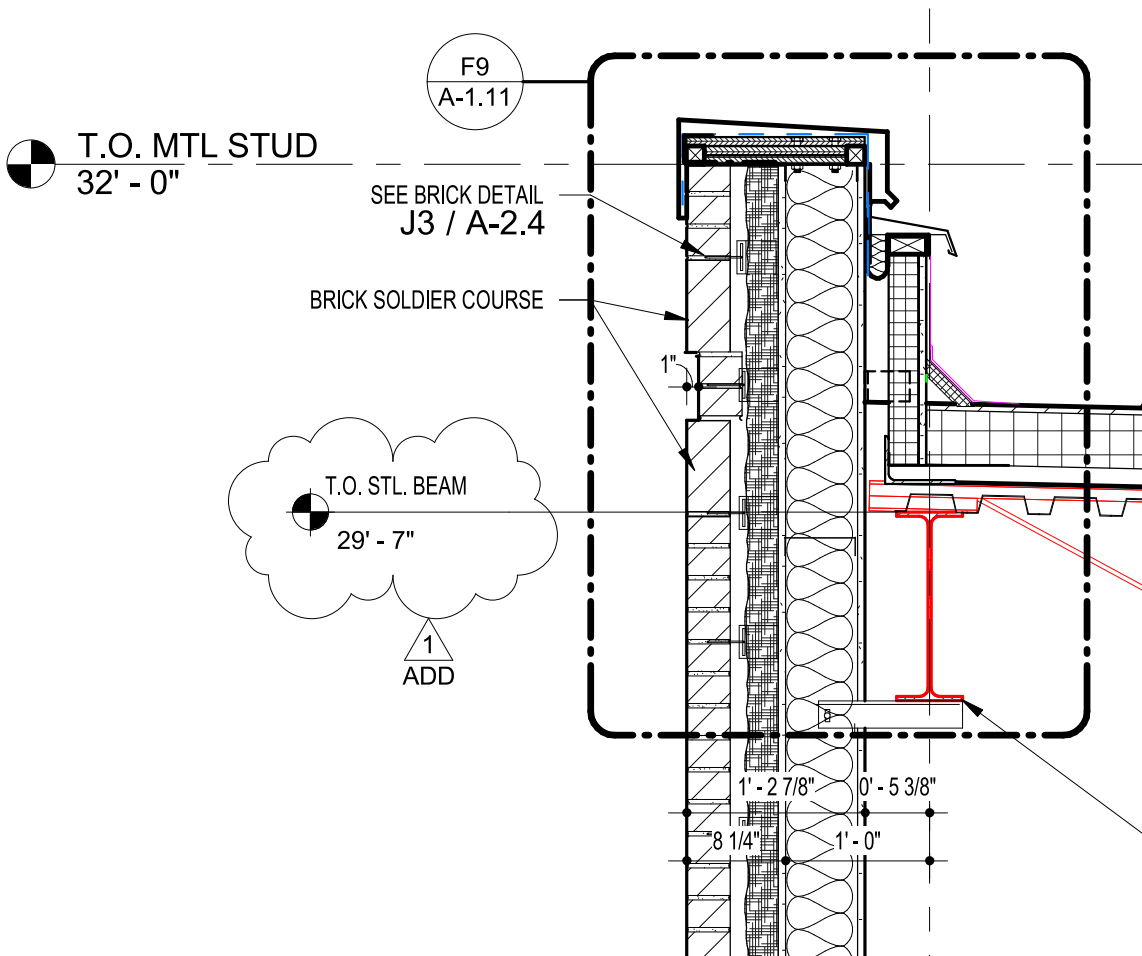
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01/25/19

ADD 01
SKA-2.2.1



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URBANA ELEMENTARY SCHOOL REPLACEMENT

REVISION TO SHEET A-4.5

SCALE
3/4"=1'-0"

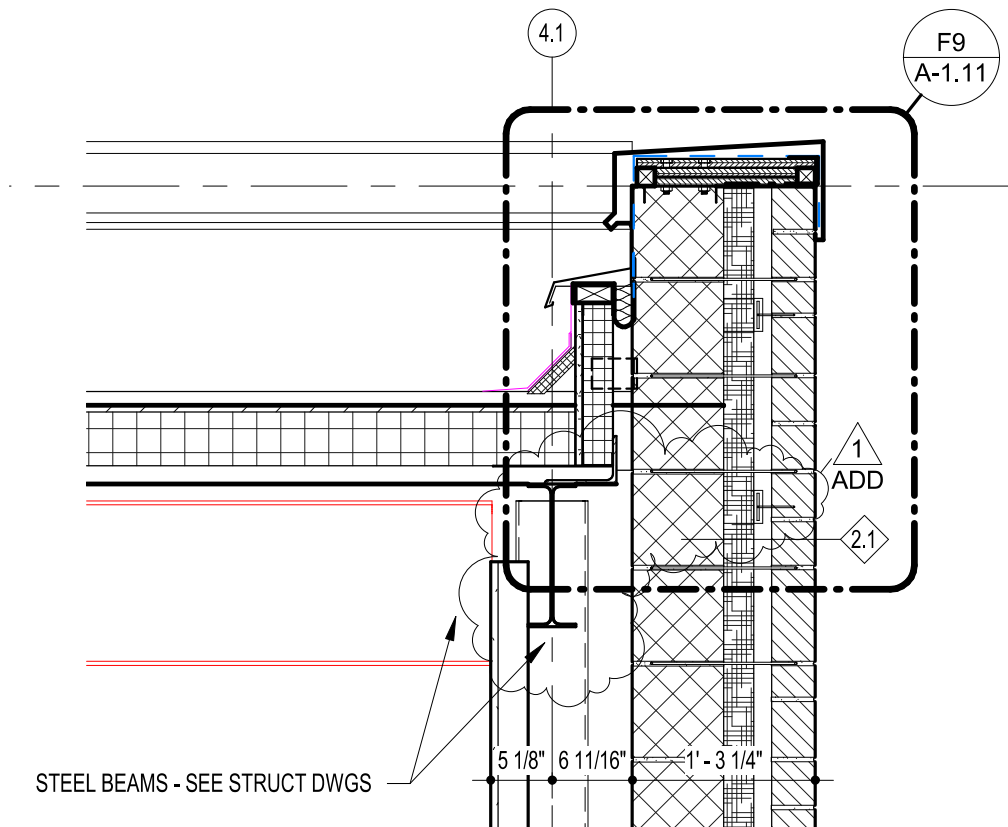
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01/25/19

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URBANA ELEMENTARY SCHOOL REPLACEMENT

REVISION TO SHEET A-4.6

SCALE
3/4"=1'-0"

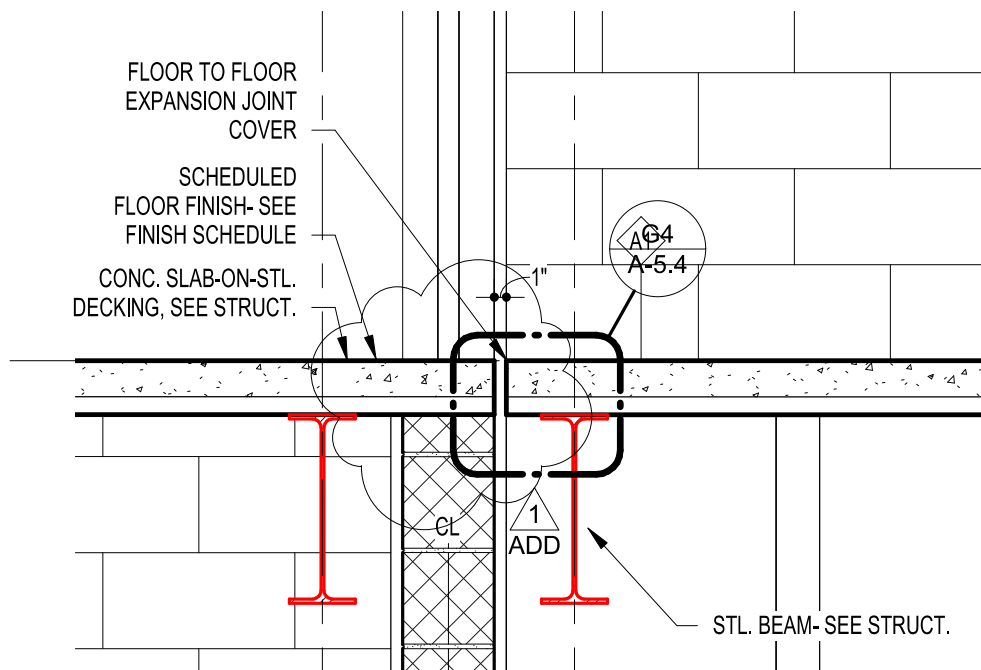
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01/25/19

ADD 01
SKA-4.6.1



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URBANA ELEMENTARY SCHOOL REPLACEMENT

REVISION TO SHEET A-4.7

SCALE
3/4"=1'-0"

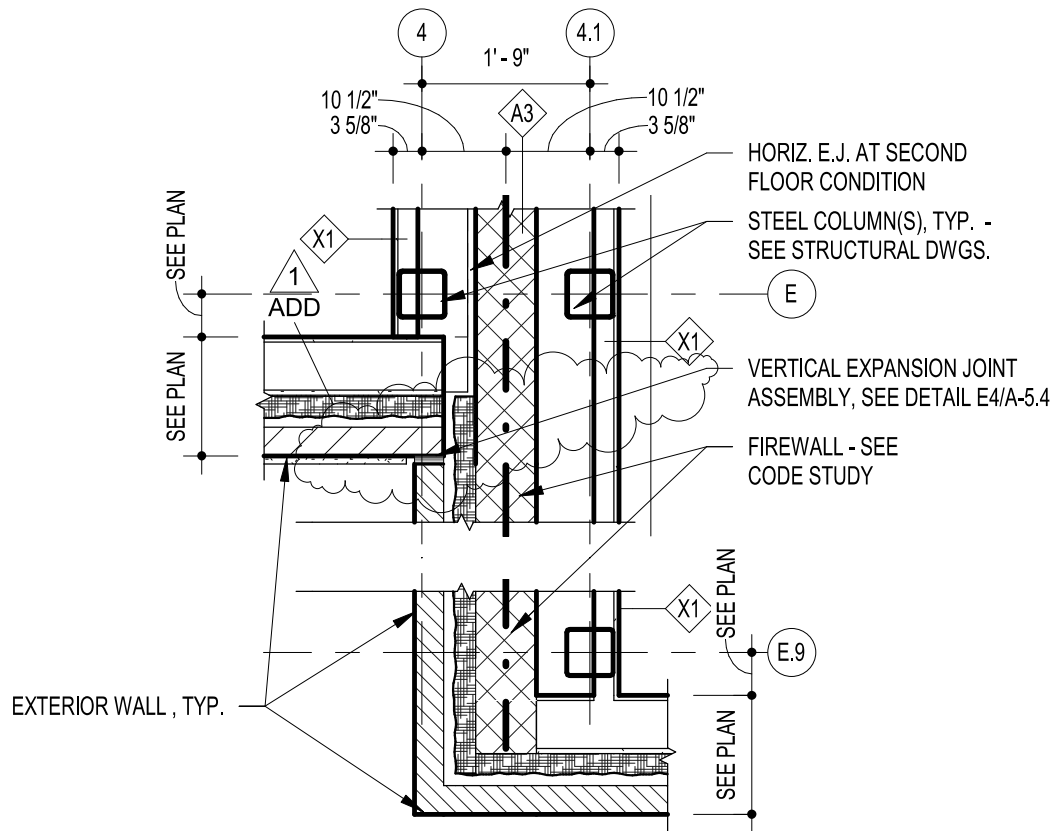
DATE
01/25/19

ADD 01
SKA-4.7.1



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A7

PLAN DETAIL - FIRE WALL @ EXTERIOR WALL

1/2" = 1'-0"

URBANA ELEMENTARY SCHOOL REPLACEMENT

REVISION TO SHEET A-5.6

SCALE
1/2"=1'-0"

DATE
01/25/19

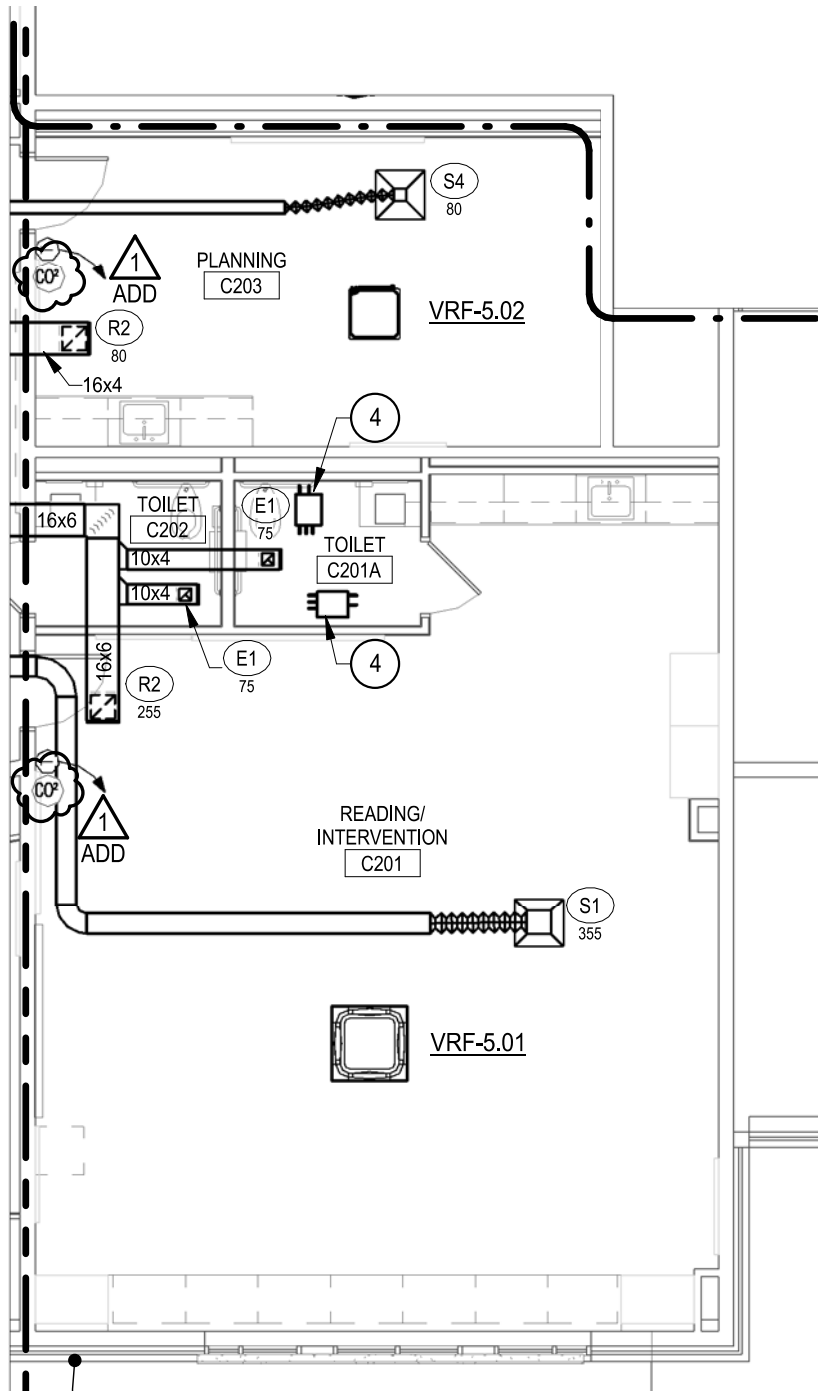
ADD 01
SKA-5.6.1



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FER TO SHEET M-2.5 FOR CONTINUATION



URBANA ELEMENTARY SCHOOL REPLACEMENT

REVISION TO SHEET M-2.7

SCALE
1/8"=1'-0"

DATE
01/25/19

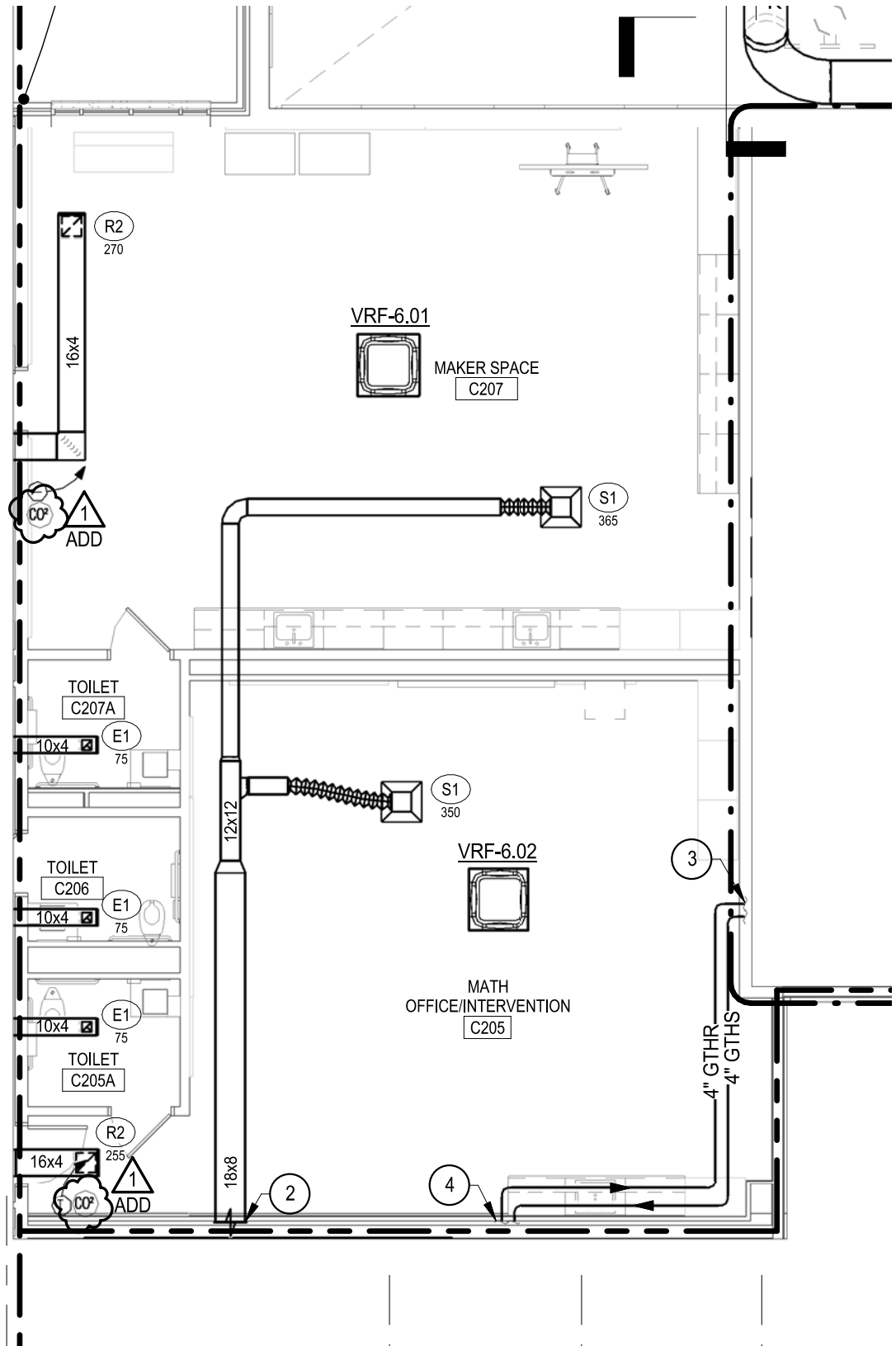
ADD 01
SKM-2.7.1



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MATCHLINE - REFER TO SHEET M-2.6 FOR CONTINUATION



URBANA ELEMENTARY SCHOOL REPLACEMENT

REVISION TO SHEET M-2.8

SCALE
1/8"=1'-0"

DATE
01/25/19

ADD 01
SKM-2.8.1



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FLOW RATE GPM	OUTSIDE AIR		
	MIN CFM	MAX CFM	%
100	4,400	10,880	100%
100	3,700	9,245	100%
20	700	1,685	100%
9	500	1,150	100%

1
ADD

URBANA ELEMENTARY SCHOOL REPLACEMENT

REVISION TO SHEET M-9.1

SCALE
N.T.S.

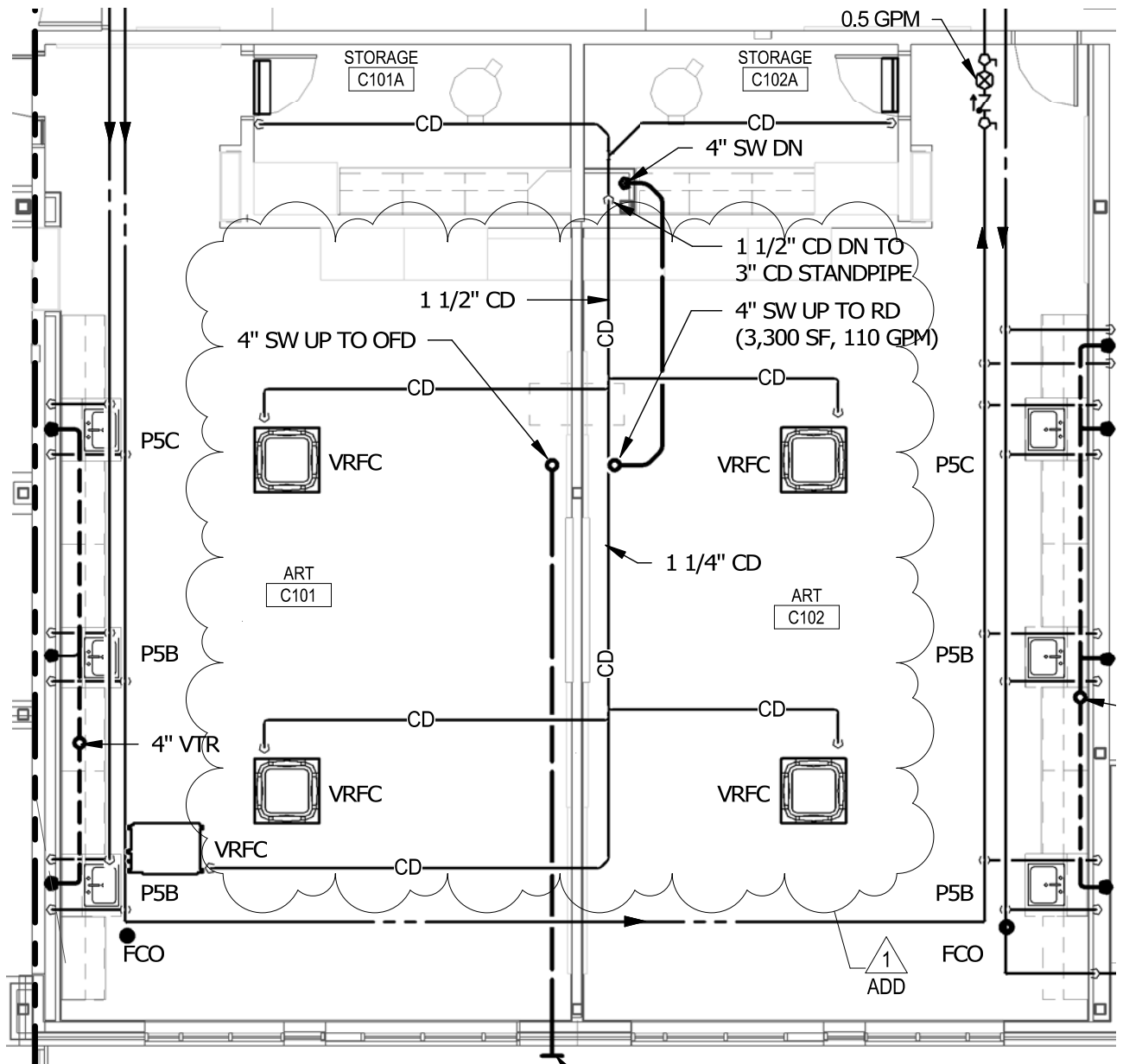
DATE
01/25/19

ADD 01
SKM-9.1.1



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URBANA ELEMENTARY SCHOOL REPLACEMENT

REVISION TO SHEET P-2.3

SCALE
1/8"=1'-0"

DATE
01/25/19

ADD 01
SKP-2.3.1



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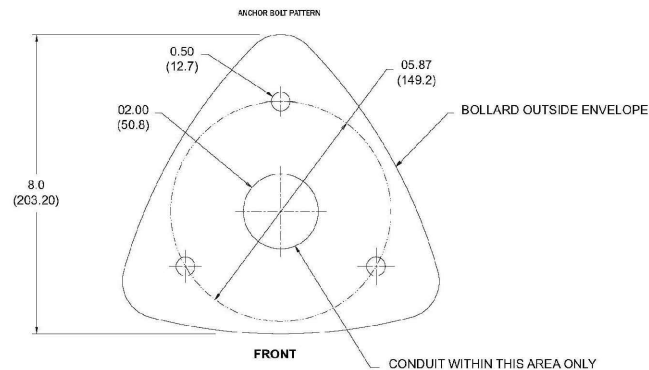
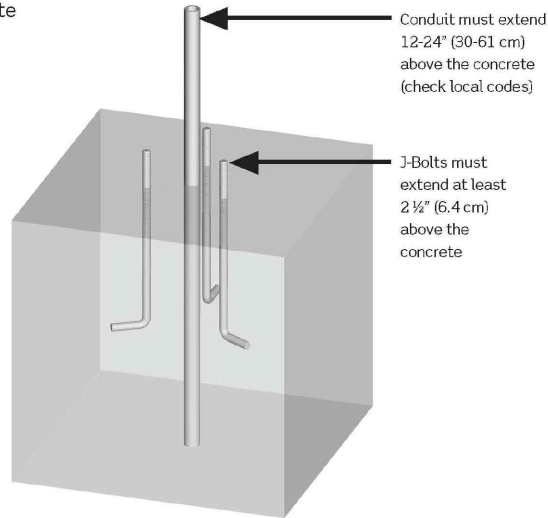
Step 4 - Install J-Bolts and conduit

Install J-Bolts and conduit into concrete as illustrated. Use the supplied base plate template to ensure correct alignment.



IMPORTANT:

- The concrete block must measure at least 18" (46 cm) on all sides. Check local codes to ensure compliance.
- The J-Bolts must extend at least 2 ½" (6.4 cm) above the concrete.
- The conduit must extend 12" to 24" (30 to 61 cm) above the concrete, or according to local codes.



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2-5

ELECTRIC VEHICLE CAR CHARGING STATION INSTALLATION DETAIL

NOT TO SCALE

URBANA E.S.

Revision to Sheet: LEGEND, SCHEDULES & ABBREVIATIONS

SCALE: NONE

DATE

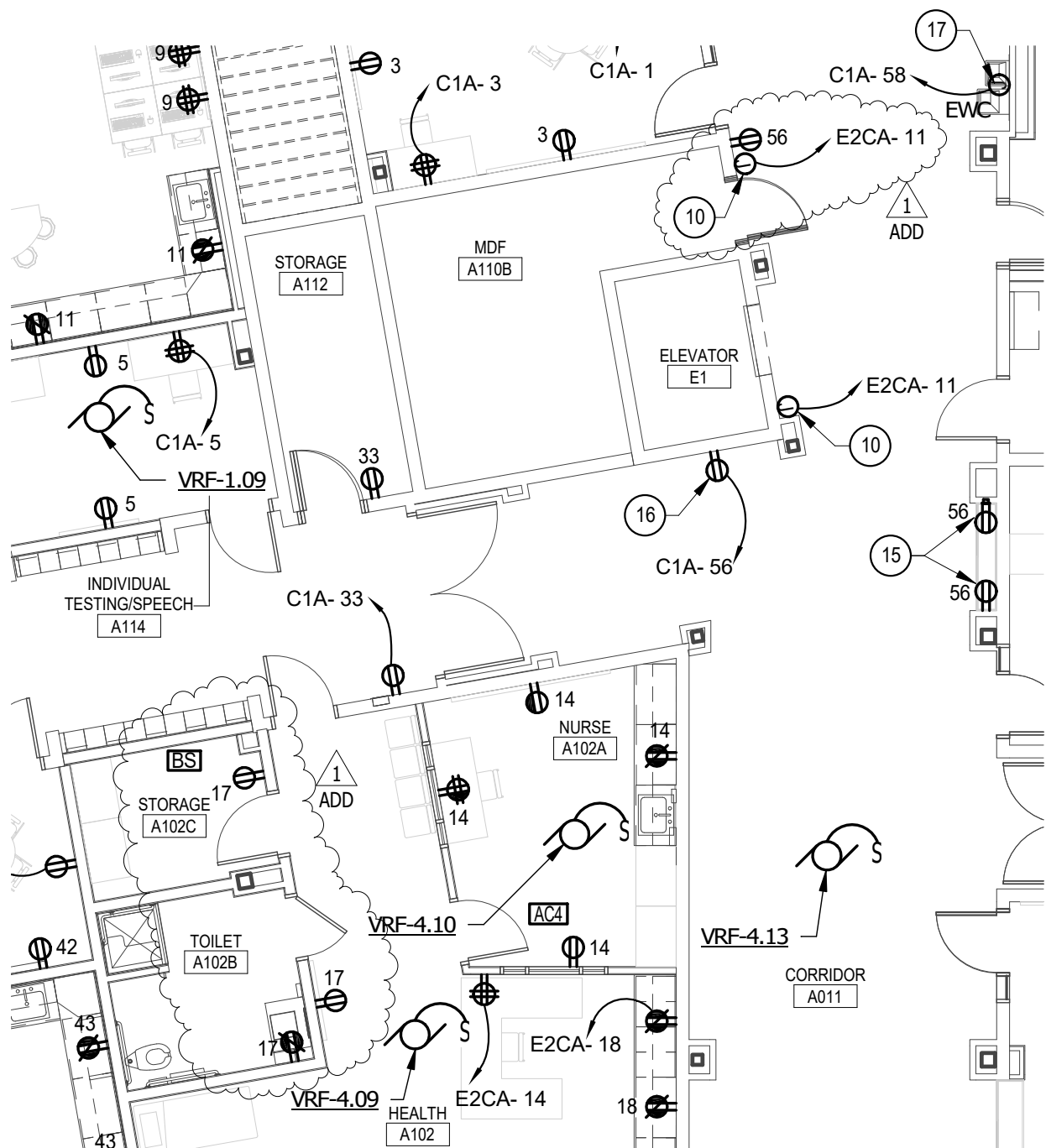
1/25/19

ADD-1

E-0.1.1

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URBANA E.S.

PARTIAL FIRST FLOOR PLAN - AREA A - POWER

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

DATE

01/25/19

ADD-1

E-1.1.1



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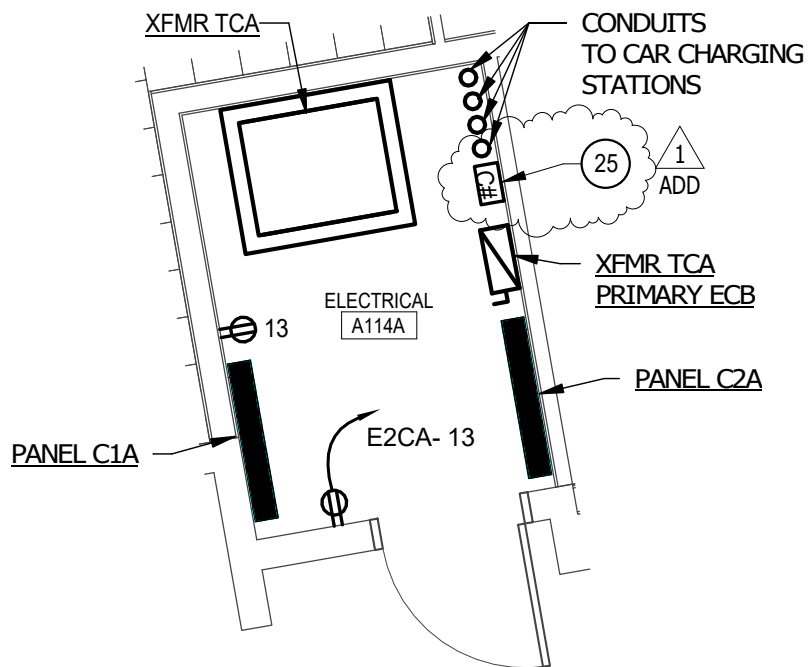
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DRAWING NOTES:

1
ADD

25

8 POLE CONTACTOR FOR BMS CONTROL OF ELECTRIC VEHICLE CAR CHARGING STATIONS.



URBANA E.S.

FIRST FLOOR PLAN - AREA A - POWER

SCALE: 1/4" = 1'-0"

DATE

01/25/19

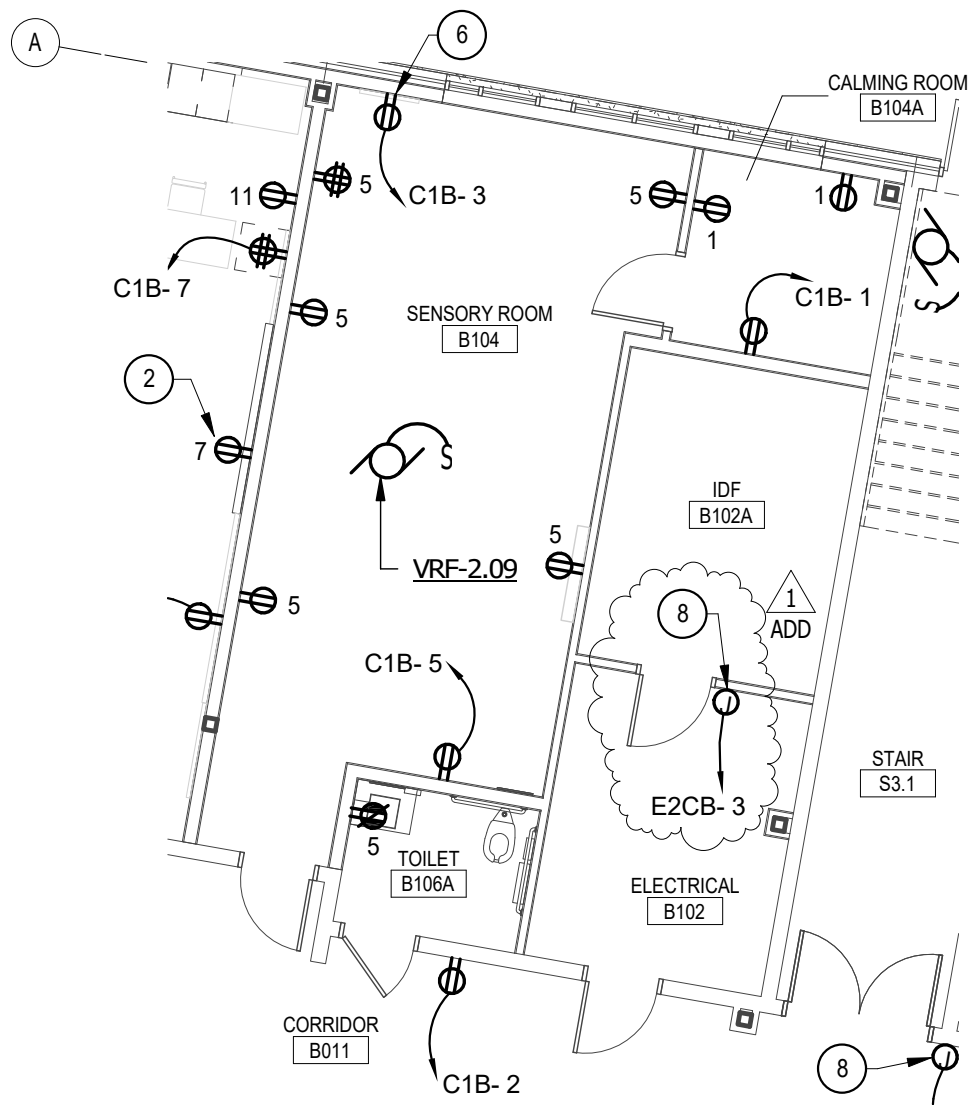
ADD-1

E-1.1.2

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URBANA E.S.

PARTIAL FIRST FLOOR PLAN - AREA B - POWER

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

DATE

01/25/19

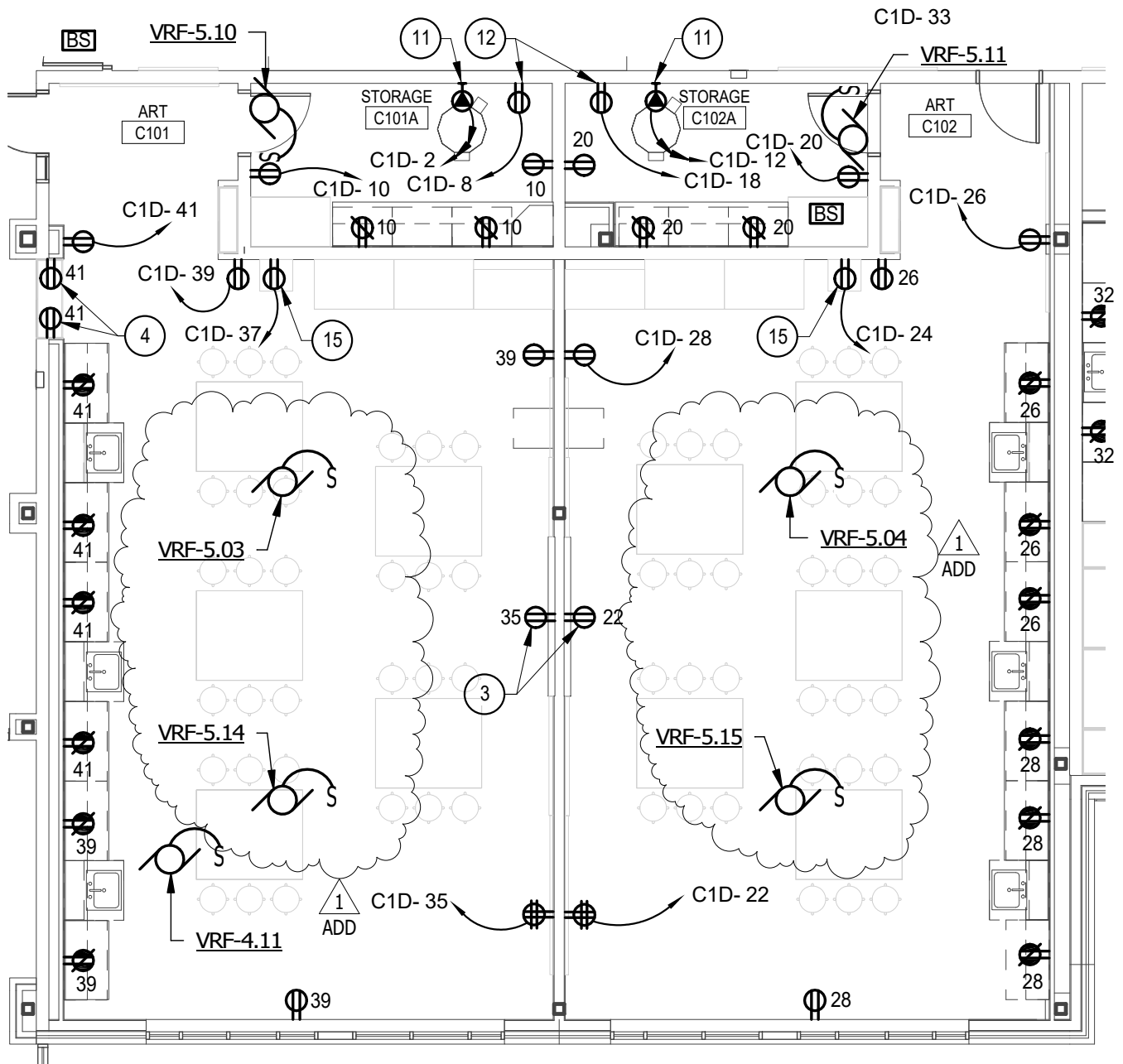
ADD-1

E-1.2.1



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URBANA E.S.

PARTIAL FIRST FLOOR PLAN - AREA C1 - POWER

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

DATE

01/25/19

ADD-1

E-1.3.1

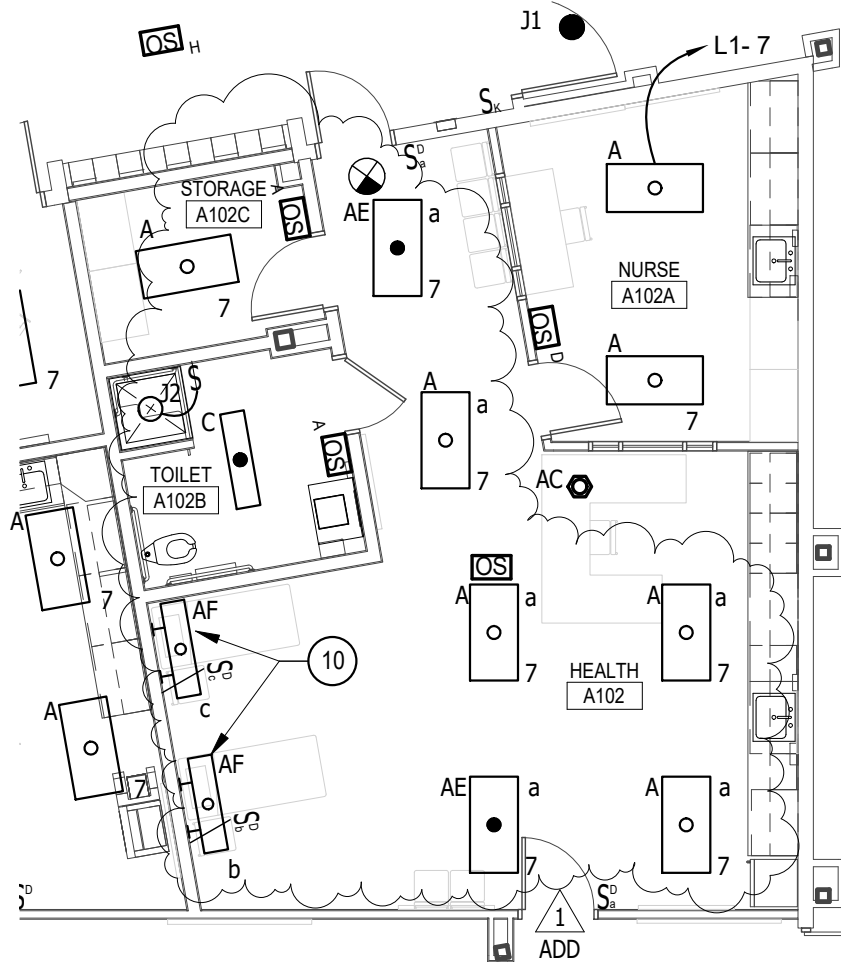
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DRAWING NOTES:

- 1
ADD
- 10 MOUNT FIXTURE TYPE AF IN HEALTH 102 AT 6'-8" AFF TO BOTTOM OF FIXTURE.



URBANA E.S.

PARTIAL FLOOR PLAN - AREA A - LIGHTING

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

DATE

01/25/19

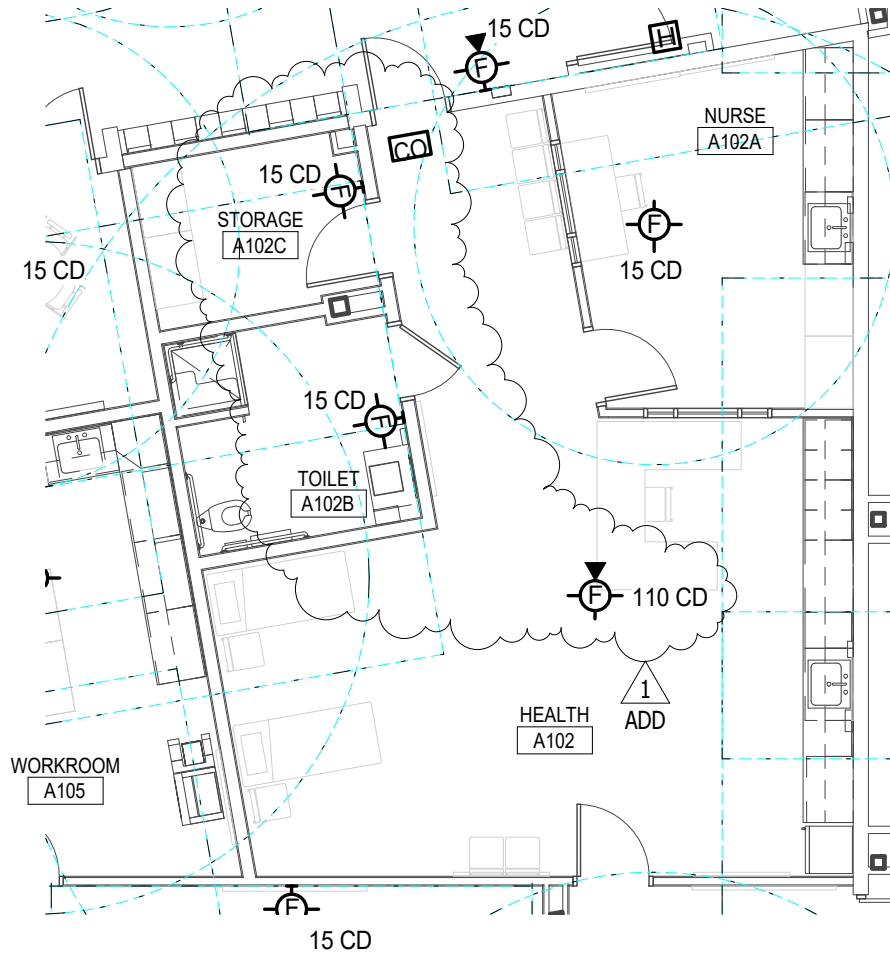
ADD-1

E-2.1.1

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URBANA E.S.

PARTIAL FIRST FLOOR PLAN - AREA A- FIRE ALARM

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

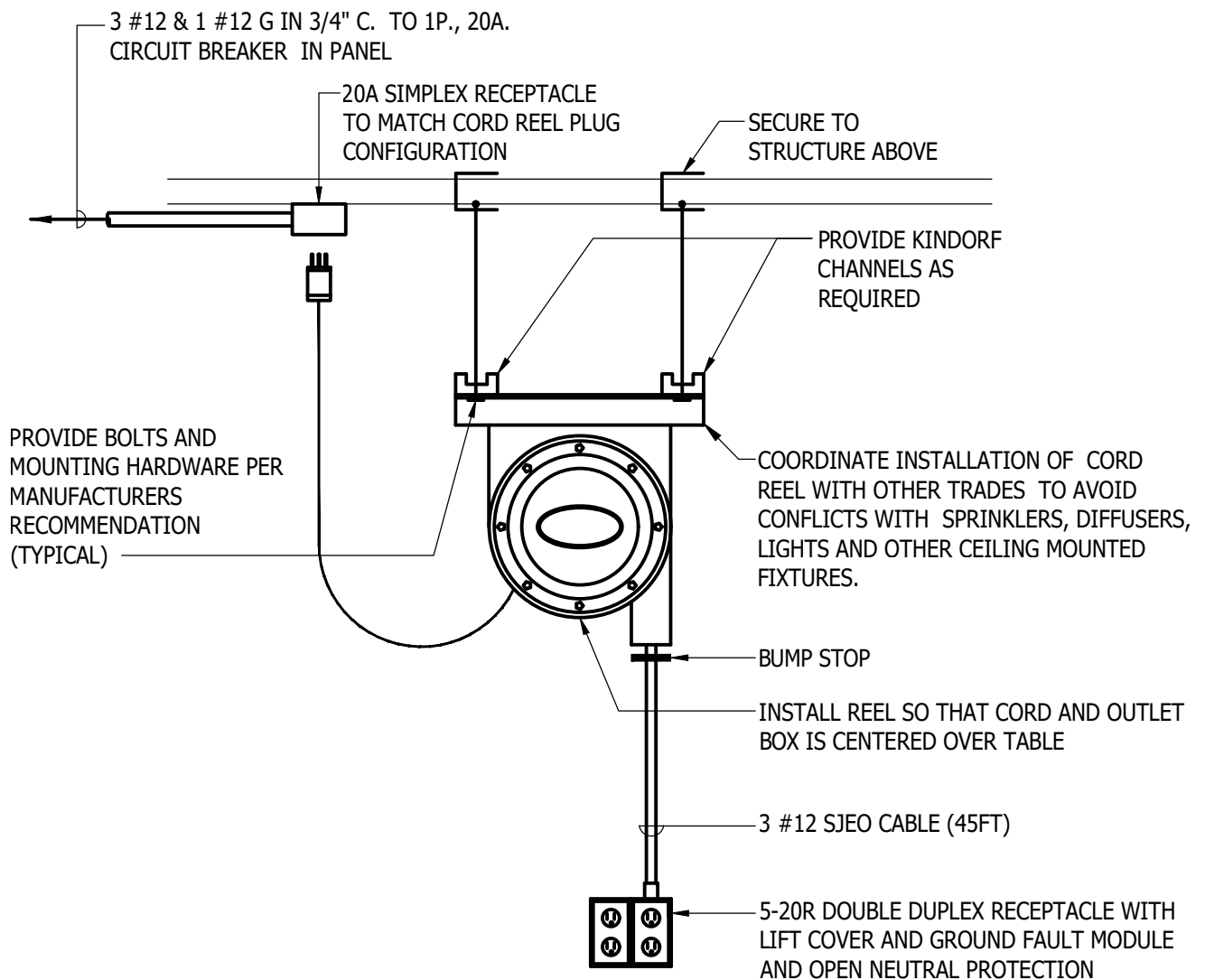
DATE
01/25/19

ADD-1
E-3.1.1



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POWER CORD REEL DETAIL

SCALE: NONE

URBANA E.S.

Revision to Sheet: E-6.3 - LIGHTING CONTROL SCHEDULES AND RISER DIAGRAM

SCALE: NONE

DATE

1/25/19

ADD-1

E-6.3.1

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1
ADD

MECHANICAL EQUIPMENT CONNECTION SCHEDULE												
EQUIPMENT	LOAD			SERVICE		CIRCUIT DESIGNATION	NEMA SIZE STARTER	DISCONNECT				NOTES
	KW	HP	AMPS	VOLTS	PH			POLE	AMPS	FUSE VERIFY W/ NAMEPLATE	NEMA ENCLOSURE	
VRF-5.13			0.6	208	1	R1C-33		2	30	15	NEMA 1	7
VRF-5.14			0.6	208	1	R1C-29		2	30	15	NEMA 1	7
VRF-5.15			0.6	208	1	R1C-29		2	30	15	NEMA 1	7

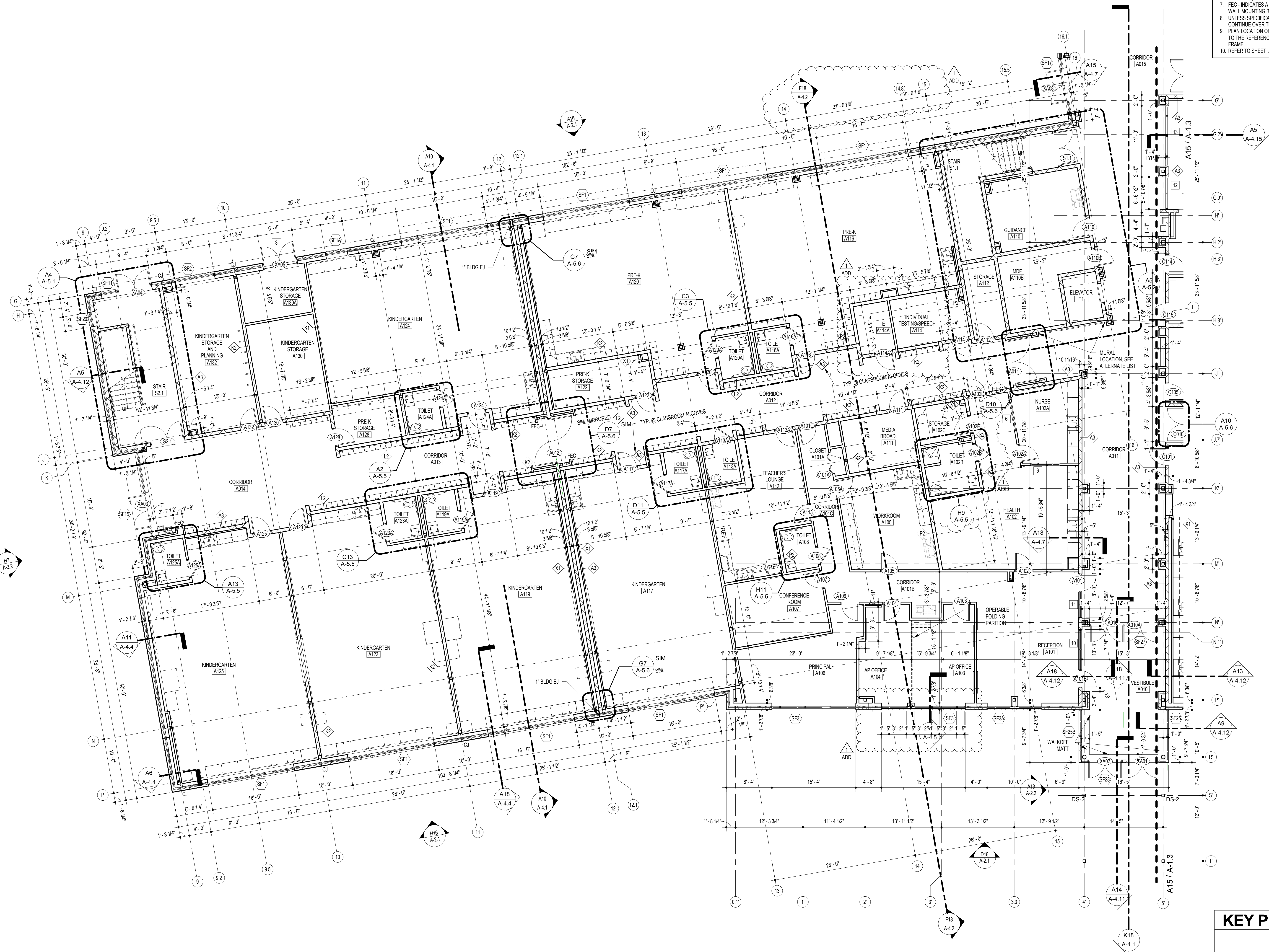
1
ADD

14. PROVIDE 2P MOTOR RATED SWITCH AT EACH BRANCH SELECTOR BOX AND MAKE CONNECTION TO ASSOCIATED VRF CASSETTE CIRCUIT AS REQUIRED.
15. PROVIDE WEATHERPROOF WIRE TROUGH AT UNIT WITH SEPARATE DISCONNECTS FOR EACH MODULE, SIZED AS INDICATED
16. MAKE CONNECTION TO MODULE VIA DISCONNECT WITH 3#8+ #10GW-3/4"C.

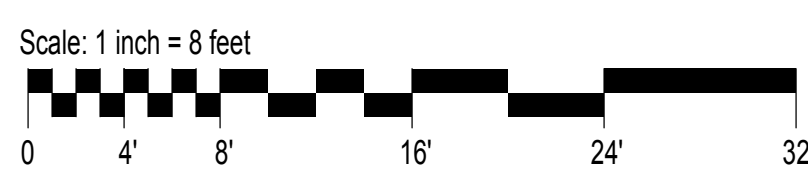
	18	17	16	15	14	13	12	11	10	9	8	7	6	5	4	3	2	1	
	LIST OF DRAWINGS																		
	GENERAL																		
	TS-1 TITLE SHEET																		
	TS-2 LIST OF DRAWINGS																		
	CIVIL																		
	C-0 COVER SHEET																		
	C-1 OVERALL EXISTING CONDITIONS PLAN																		
	C-1A DEMOLITION PLAN																		
	C-1B DEMOLITION PLAN																		
	C-2 OVERALL EROSION & SEDIMENT CONTROL PLAN																		
	C-2A EROSION & SEDIMENT CONTROL PLAN																		
	C-2B EROSION & SEDIMENT CONTROL PLAN																		
	C-2C EROSION & SEDIMENT CONTROL PLAN																		
	C-2D EROSION & SEDIMENT CONTROL PLAN																		
	C-2E EROSION & SEDIMENT CONTROL DETAILS																		
	C-2F EROSION & SEDIMENT CONTROL DETAILS																		
	C-2G EROSION & SEDIMENT CONTROL DETAILS																		
	C-2H EROSION & SEDIMENT CONTROL NOTES																		
	C-3 OVERALL SITE PLAN																		
	C-3A SITE PLAN																		
	C-3B SITE PLAN																		
	C-3C SITE DETAILS																		
	C-3D SITE DETAILS																		
	C-3E SITE DETAILS																		
	C-3F PLAY STRIPING DETAILS																		
	C-3J SEWER PROFILES																		
	C-3K SEWER PROFILES																		
	C-3L SEWER PROFILES																		
	C-3M WATER PROFILES																		
	C-3N WATER PROFILES																		
	C-3P WATER & SEWER DETAILS																		
	C-3Q SEWER PUMP DETAILS																		
	C-3R SEWER PUMP DETAILS																		
	C-4 OVERAL GRADING PLAN																		
	C-4A GRADING AND STORMWATER MANAGEMENT PLAN																		
	C-4B GRADING AND STORMWATER MANAGEMENT PLAN																		
	C-4C STORMDRAIN PROFILES																		
	C-4D STORMDRAIN PROFILES																		
	C-4E STORMDRAIN PROFILES																		
	C-4F STORMDRAIN PROFILES																		
	C-4G STORMDRAIN PROFILES																		
	C-4H STORMDRAIN PROFILES																		
	C-4J STORMDRAIN PROFILES																		
	C-4K STORMDRAIN PROFILES																		
	C-4L STORMWATER MANAGEMENT PROFILES																		
	C-4M STORMWATER MANAGEMENT PROFILES																		
	C-4N STORMWATER MANAGEMENT PROFILES																		
	C-5 SIGNAGE & STRIPING PLAN																		
	C-5A SIGNAGE & STRIPING DETAILS																		
	L-1.1 COMBINED PRELIMINARY & FINAL FCP																		
	L-1.2 COMBINED PRELIMINARY & FINAL FCP																		
	L-1.3 COMBINED PRELIMINARY & FINAL FCP																		
	L-2.1 LANDSCAPE PLAN																		
	L-2.2 LANDSCAPE PLAN																		
	L-2.3 LANDSCAPE PLAN																		
	L-2.4 LANDSCAPE PLAN																		
	ARCHITECTURAL																		
	A-0.1 CODE STUDY - FIRST FLOOR																		
	A-0.2 CODE STUDY- SECOND FLOOR																		
	A-0.3 FIRST FLOOR OVERALL PLAN																		
	A-0.4 SECOND FLOOR OVERALL PLAN																		
	A-0.5 ARCHITECTURAL SITE PLAN																		
	A-0.6 SITE DETAILS																		
	A-1.1 PARTIAL FIRST FLOOR PLAN- AREA A																		
	A-1.2 PARTIAL FIRST FLOOR PLAN- AREA B																		
	A-1.3 PARTIAL FIRST FLOOR PLAN- AREA C1																		
	A-1.4 PARTIAL FIRST FLOOR PLAN- AREA C2																		
	A-1.5 PARTIAL SECOND FLOOR PLAN- AREA A																		
	A-1.6 PARTIAL SECOND FLOOR PLAN- AREA B																		
	A-1.7 PARTIAL SECOND FLOOR PLAN- AREA C1																		
	A-1.8 PART																		

GENERAL PLAN NOTES

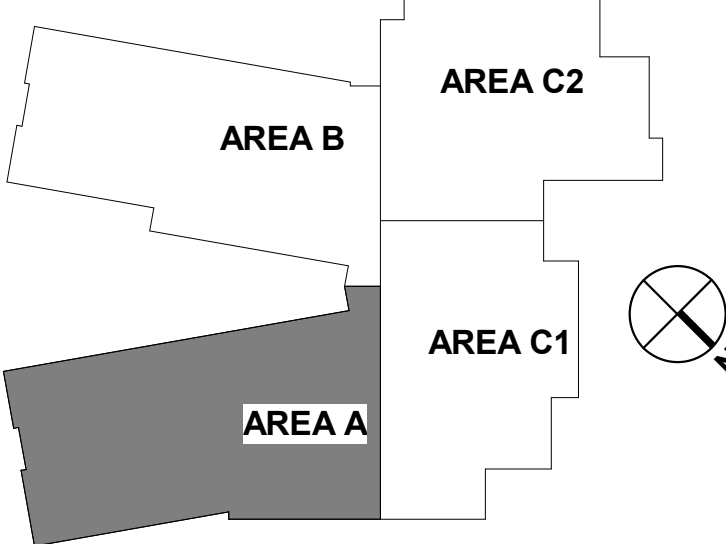
- GENERAL NOTE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED, NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.
1. REFER TO SHEET A-3.4 FOR WALL TYPES AS REFERENCED ON PLANS WITH THE DIAMOND SYMBOL, UNLESS REFERENCED OTHERWISE. ALL INTERIOR CMU WALLS ARE THE TYPE A3 AND ALL INTERIOR GYPSUM BOARD WALLS ARE TYPE K1.
 2. UNLESS NOTED OTHERWISE, WALLS SHALL EXTEND TO THE ROOF OR FLOOR DECK ABOVE AND BE SEALED IN ACCORDANCE WITH THE WALL TERMINATION DETAILS. REFER TO THE CODE STUDY PLAN FOR IDENTIFICATION OF ALL SMOKE AND FIRE WALL CONDITIONS. PERIMETER CORRIDOR AND LOBBY WALLS SHALL BE BUILT TO RESIST THE PASSAGE OF SMOKE.
 3. REFER TO WALL SECTIONS AND DETAILS FOR EXTERIOR WALL TYPES AND CONSTRUCTION.
 4. DIMENSIONS ON PLANS ARE FROM FACE OF MASONRY TO FACE OF MASONRY, FACE OF MASONRY TO FACE OF GYPSUM BOARD OR FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD.
 5. COLUMN GRID LINES ARE FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWINGS FOR COLUMN LOCATIONS.
 6. REFER TO FURNISHING PLANS FOR CASEWORK, MILLWORK DISPLAY BOARDS, SHELVING UNITS, TV MOUNTING BRACKETS, LOOKERS, FURNITURE, ETC. (A800 SERIES).
 7. FEC - INDICATES A FIRE EXTINGUISHER WITH A RECESSED CABINET. FE - INDICATES A FIRE EXTINGUISHER WITH A WALL MOUNTING BRACKET.
 8. UNLESS SPECIALLY INDICATED OTHERWISE, THE SAME WALL TYPE NEXT TO A DOOR OR OPENING SHALL CONTINUE OVER THE DOOR OR OPENING.
 9. PLAN LOCATION OF DOORS AND FRAMES RELATIVE TO THE PLANE OF THE WALL IS DIAGRAMMATIC ONLY. REFER TO THE REFERENCED JAMB AND HEAD CONDITION DETAILS TO DETERMINE ACTUAL PLACEMENT OF DOOR AND FRAME.
 10. REFER TO SHEET A-5.4 FOR TYPICAL MASONRY DETAILS.



A17 PARTIAL FIRST FLOOR PLAN - AREA A
1/8" = 1'-0"



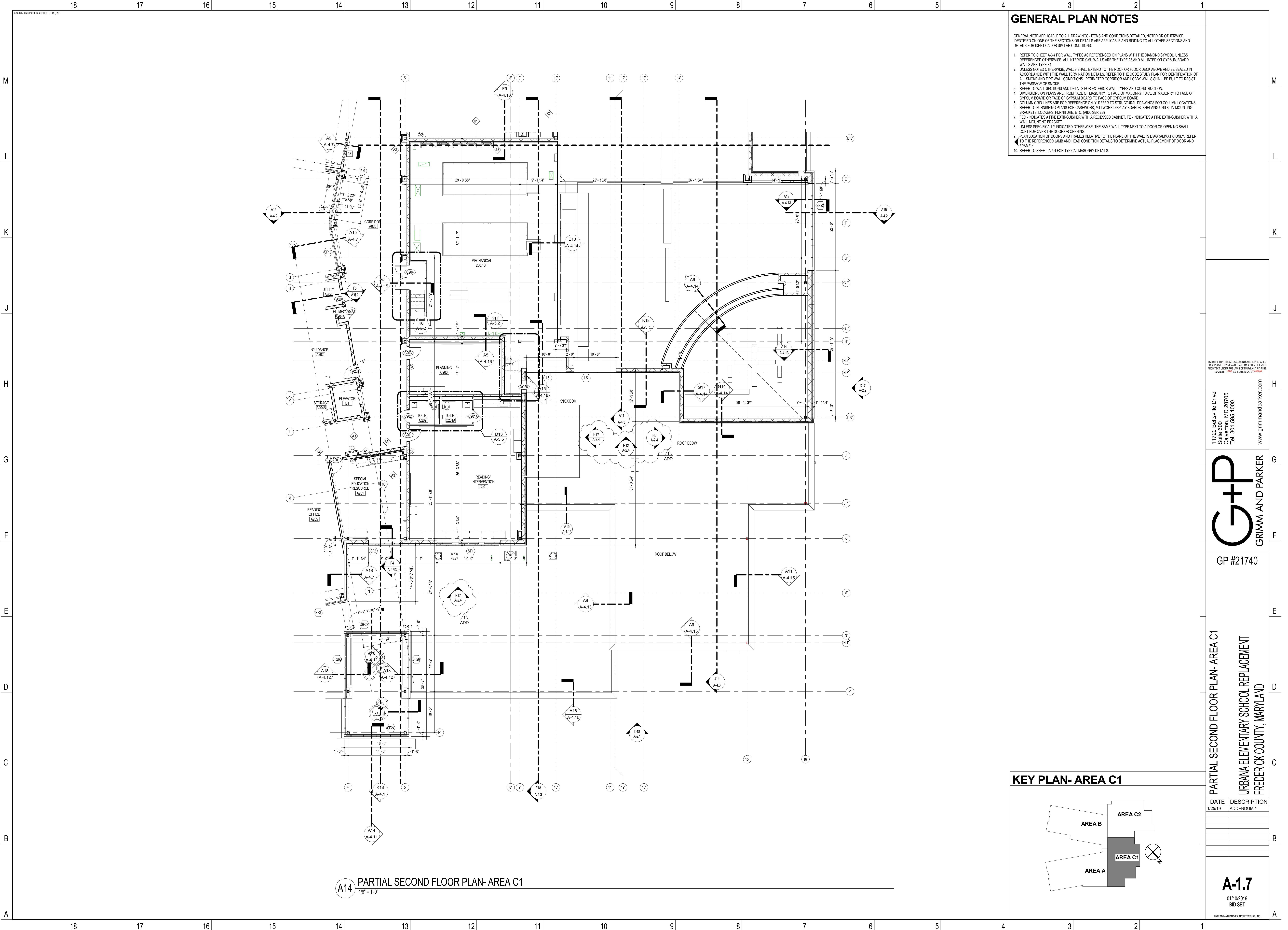
KEY PLAN- AREA A



PARTIAL FIRST FLOOR PLAN- AREA A
URBANA ELEMENTARY SCHOOL REPLACEMENT
FREDERICK COUNTY, MARYLAND

DATE	DESCRIPTION
1/25/19	ADDENDUM 1

A-1.1
01/10/2019
BID SET

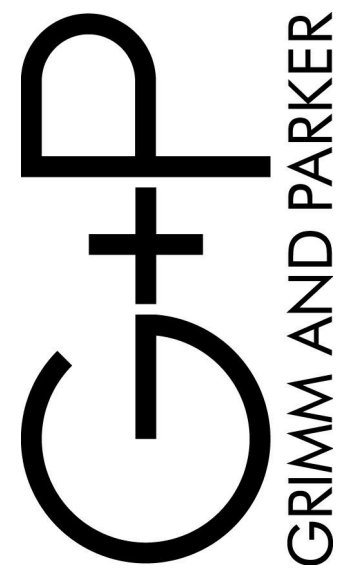


GENERAL PLAN NOTES

- GENERAL NOTE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED, NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.
1. REFER TO SHEET A-3.4 FOR WALL TYPES AS REFERENCED ON PLANS WITH THE DIAMOND SYMBOL. UNLESS REFERENCED OTHERWISE, ALL INTERIOR CMU WALLS ARE THE TYPE A3 AND ALL INTERIOR GYPSUM BOARD WALLS ARE TYPE K1.
 2. UNLESS NOTED OTHERWISE, WALLS SHALL EXTEND TO THE ROOF OR FLOOR DECK ABOVE AND BE SEALED IN ACCORDANCE WITH THE WALL TERMINATION DETAILS. REFER TO THE CODE STUDY PLAN FOR IDENTIFICATION OF ALL SMOKE AND FIRE WALL CONDITIONS. PERIMETER CORRIDOR AND LOBBY WALLS SHALL BE BUILT TO RESIST THE PASSAGE OF SMOKE.
 3. REFER TO WALL SECTIONS AND DETAILS FOR EXTERIOR WALL TYPES AND CONSTRUCTION.
 4. DIMENSIONS ON PLANS ARE FROM FACE OF MASONRY TO FACE OF MASONRY, FACE OF MASONRY TO FACE OF GYPSUM BOARD OR FACE OF GYPSUM BOARD TO FACE OF GYPSUM BOARD.
 5. COLUMN GRID LINES ARE FOR REFERENCE ONLY. REFER TO STRUCTURAL DRAWINGS FOR COLUMN LOCATIONS.
 6. REFER TO FURNISHING PLANS FOR CASEWORK, MILLWORK DISPLAY BOARDS, SHELVING UNITS, TV MOUNTING BRACKETS, LOOKERS, FURNITURE, ETC. (A800 SERIES).
 7. FEC - INDICATES A FIRE EXTINGUISHER WITH A RECESSED CABINET. FE - INDICATES A FIRE EXTINGUISHER WITH A WALL MOUNTING BRACKET.
 8. UNLESS SPECIFICALLY INDICATED OTHERWISE, THE SAME WALL TYPE NEXT TO A DOOR OR OPENING SHALL CONTINUE OVER THE DOOR OR OPENING.
 9. PLAN LOCATION OF DOORS AND FRAMES RELATIVE TO THE PLANE OF THE WALL IS DIAGRAMMATIC ONLY. REFER TO THE REFERENCED JAMB AND HEAD CONDITION DETAILS TO DETERMINE ACTUAL PLACEMENT OF DOOR AND FRAME.
 10. REFER TO SHEET A-5.4 FOR TYPICAL MASONRY DETAILS.

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A duly LICENSED ARCHITECT UNDER THE LAWS OF MARYLAND. LICENSE NUMBER: 10001 EXPIRATION DATE: 12/31/2024

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GP #21740

PARTIAL SECOND FLOOR PLAN- AREA C1
URBANA ELEMENTARY SCHOOL REPLACEMENT
FREDERICK COUNTY, MARYLAND

DATE	DESCRIPTION
1/25/19	ADDENDUM 1

A-1.7
01/10/2019
BID SET

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J18



E17 $\frac{1 \frac{1}{2}''}{1' 0''}$



A18 DOOR



K13 $\frac{111.1}{112'' = 1'-0''}$

F13 $\frac{111.1}{110.2} = 1.008$

K9 $\frac{1 \text{ AINAI}}{1 \frac{1}{2}'' = 1'-0''}$



F9	11F.F
	1.1(2") = 1.0"



K5 $\frac{0.125}{1.125} = 1'-0"$

F5	ROOF
	4' 4" (2" = 4' 0")

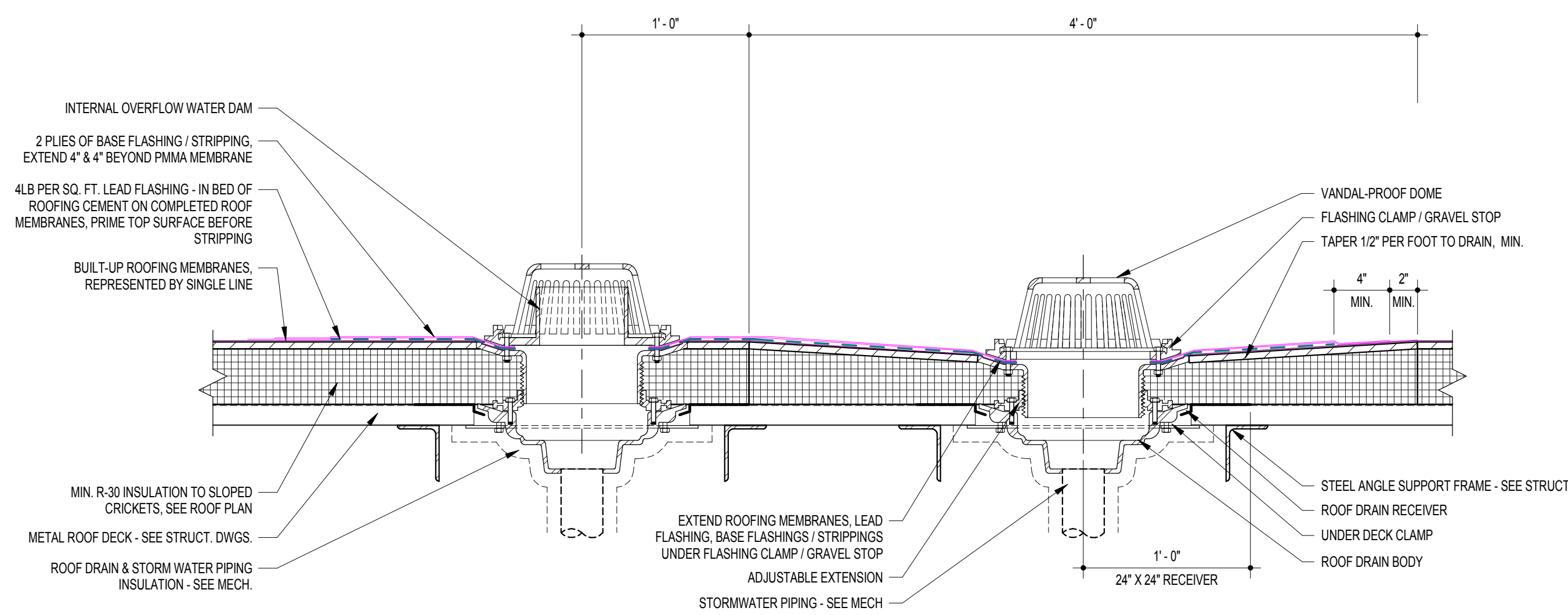


A10 ROOF
4.42" = 4.0"

A1 ROOF

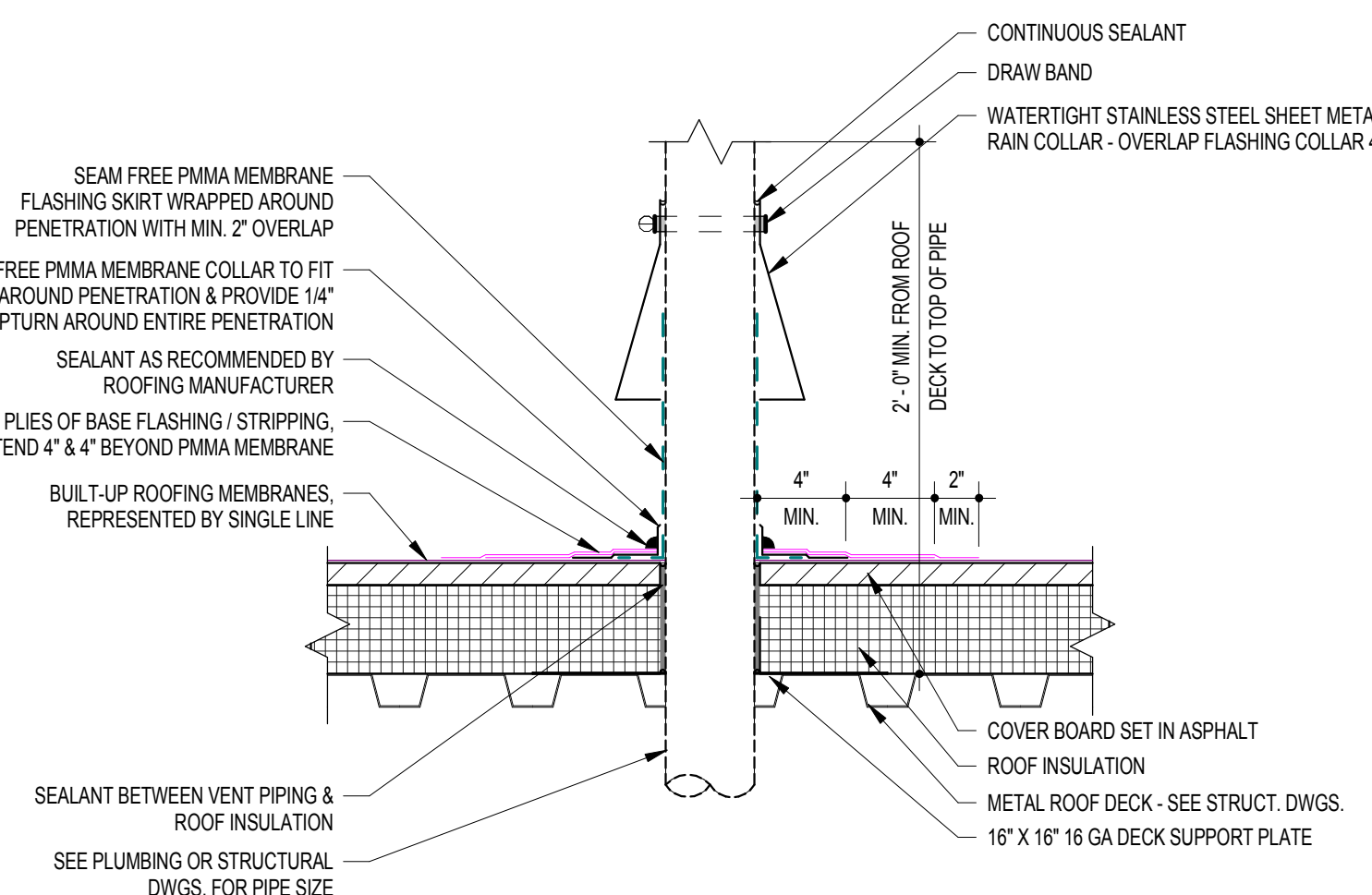
NOTE: IECC REQUIRES R-30 CONTINUOUS INSULATION ABOVE ROOF DECK. INSULATION THICKNESS MAY BE REDUCED NOT MORE THAN 1 IN. PER IECC §402.2.2 EXCEPTION #1 PROVIDED THE AREA-WEIGHTED U-FACTOR IS EQUIVALENT TO THE SAME ASSEMBLY WITH THE MINIMUM REQUIRED R-VALUE OVER THE ENTIRETY OF THE ROOF. CONTRACTOR SHALL PROVIDE CALCULATIONS VERIFYING IECC COMPLIANCE.

EXTEND ROOFING MEMBRANE UNDER ROOF DRAIN CLAMPING RING. SET CAST IRON ROOF DRAIN ONLY ON DRAIN RECEIVER AND SECURE TO ROOF CONSTRUCTION WITH DECK CLAMP ASSEMBLIES. SEE ARCHITECTURAL DRAWINGS FOR PLANS AND LOCATIONS OF DRAIN/SUMP AREAS. SEE PLUMBING DRAWINGS AND SPECIFICATIONS FOR ROOF DRAIN TYPES AND SIZES.

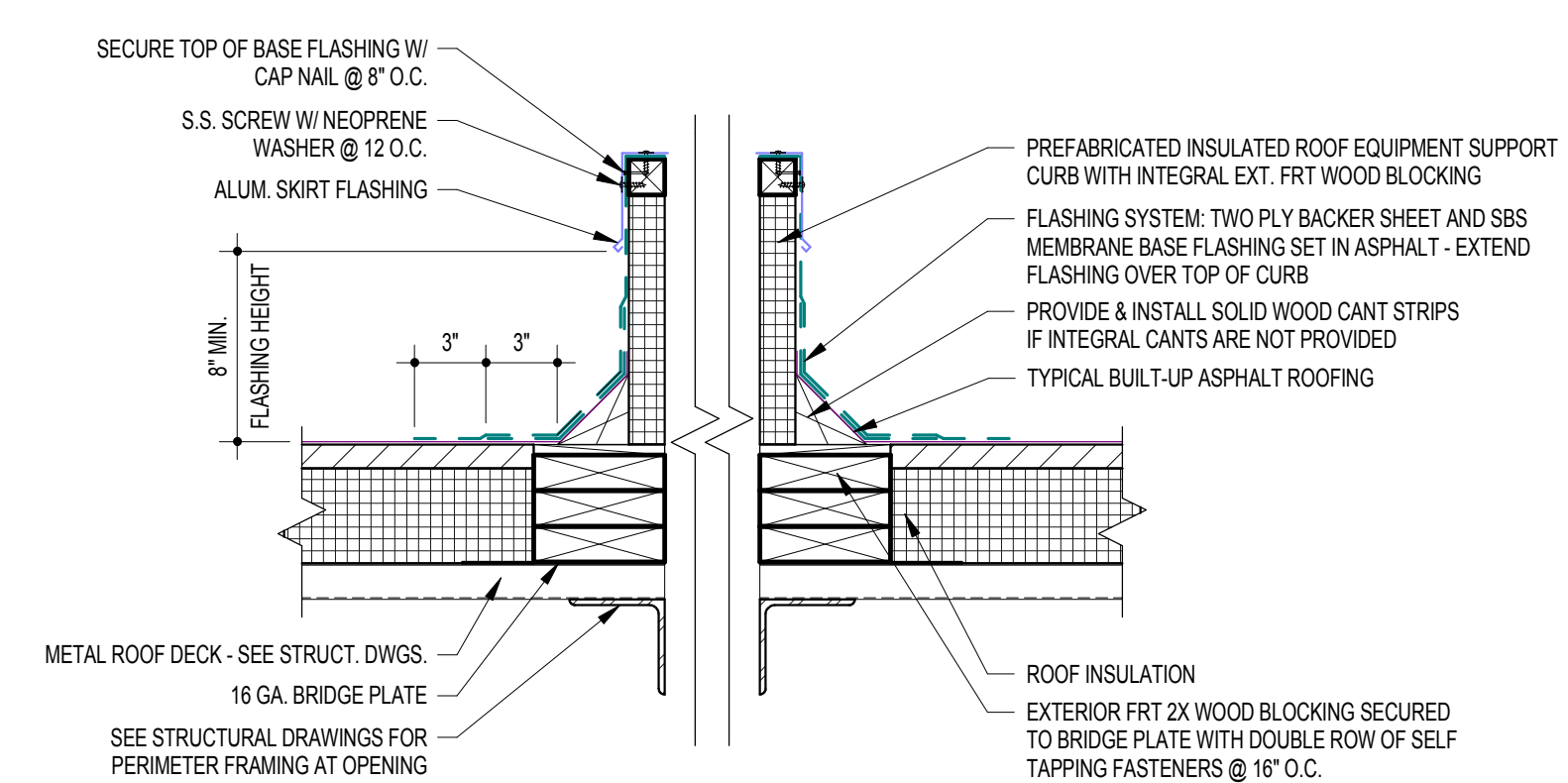


K18 TYP. ROOF DRAIN / OVERFLOW DRAIN DETAIL
1 1/2" = 1'-0"

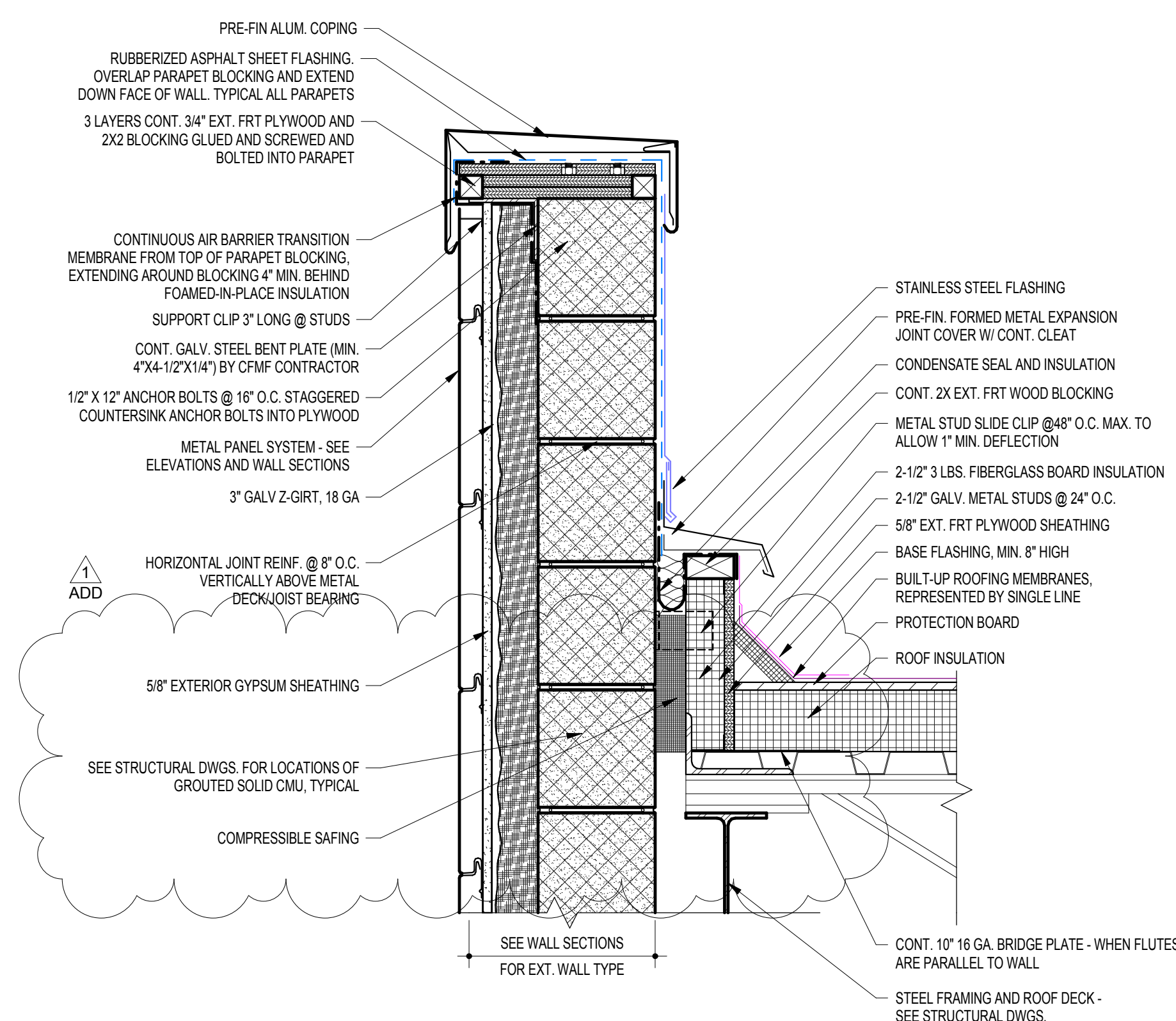
K10 TYPICAL ROOF VENT
1 1/2" = 1'-0"



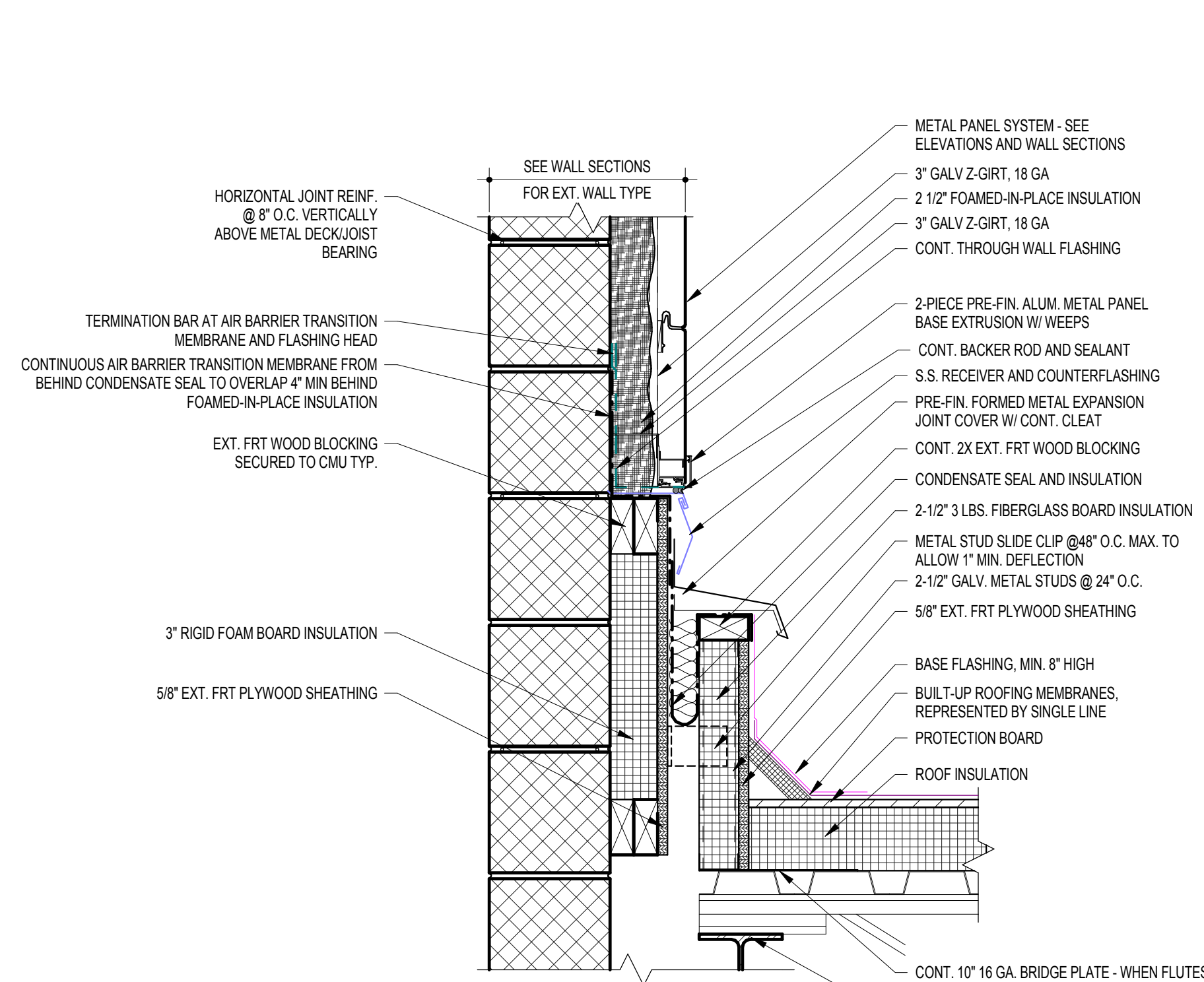
G10 DETAIL - TYPICAL PIPE PENETRATION
1 1/2" = 1'-0"



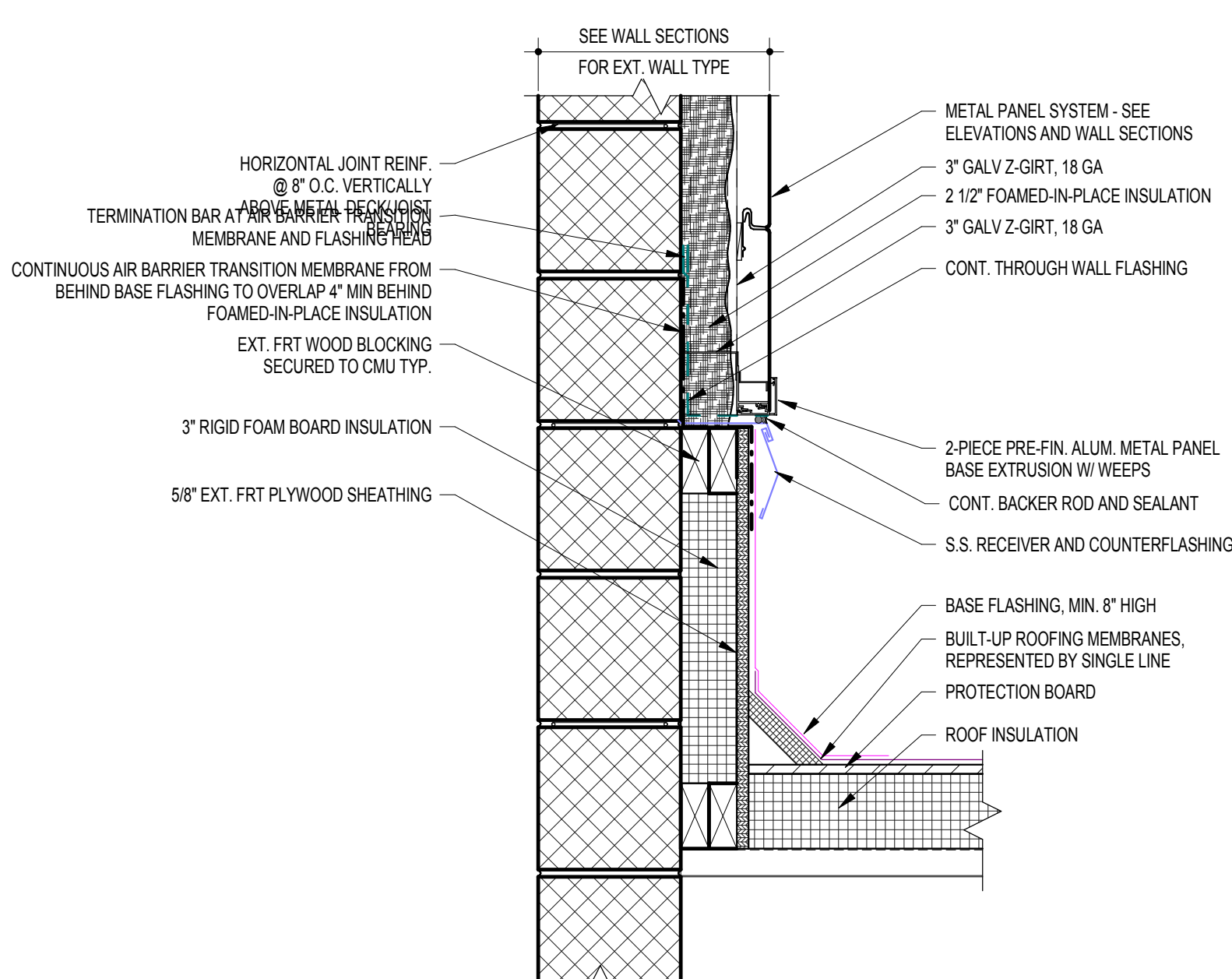
E10 TYPICAL CURB DETAIL1
1 1/2" = 1'-0"



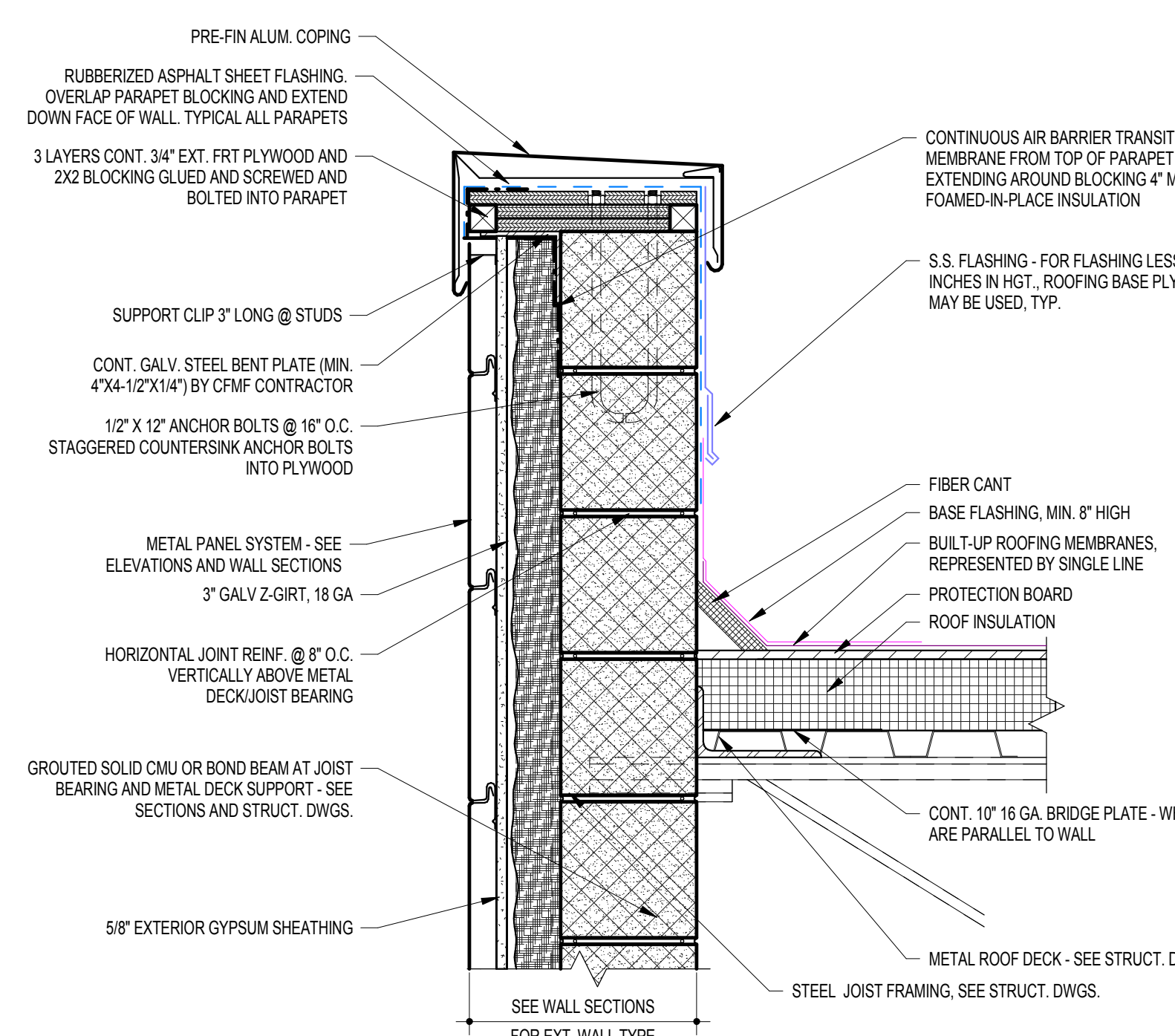
A10 TYP. PARAPET @ METAL PANEL W/ CMU & ROOF EJ
1 1/2" = 1'-0"



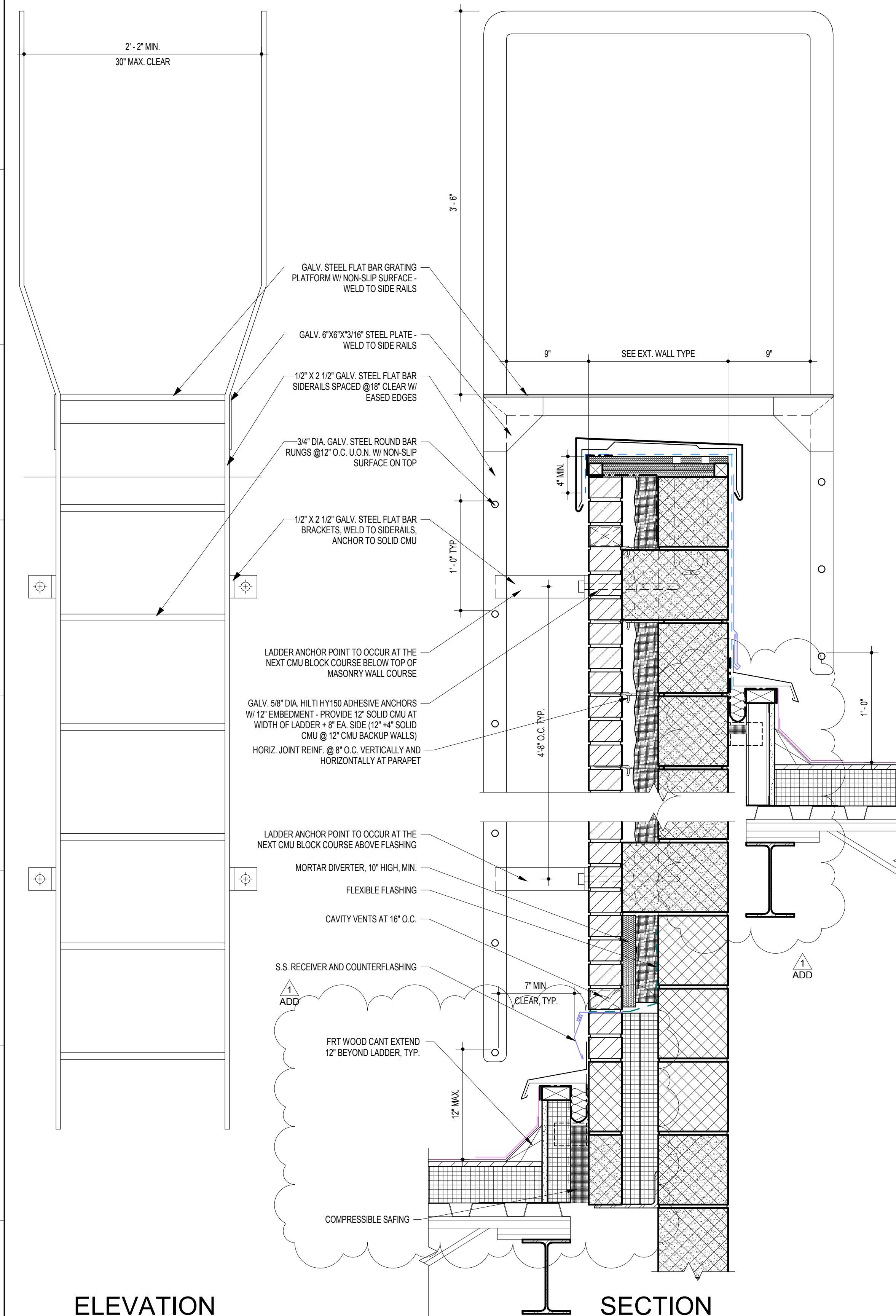
J6 TYP. LOW ROOF FLASHING @ MTL. WALL PANEL W/ ROOF EJ
1 1/2" = 1'-0"



E6 TYP. LOW ROOF FLASHING @ MTL. WALL PANEL
1 1/2" = 1'-0"



A6 TYP. MTL PANEL PARAPET @ CMU BACK-UP
1 1/2" = 1'-0"

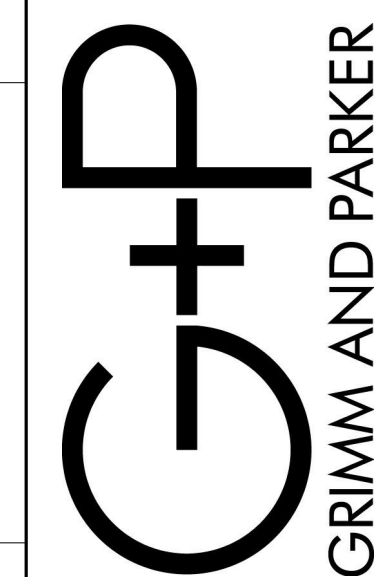


A18 ROOF LADDER
1 1/2" = 1'-0"

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A QUALIFIED ARCHITECT UNDER THE LAWS OF MARYLAND, LICENSE NUMBER 11720. EXPIRATION DATE 11/30/2019.

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GP #21740

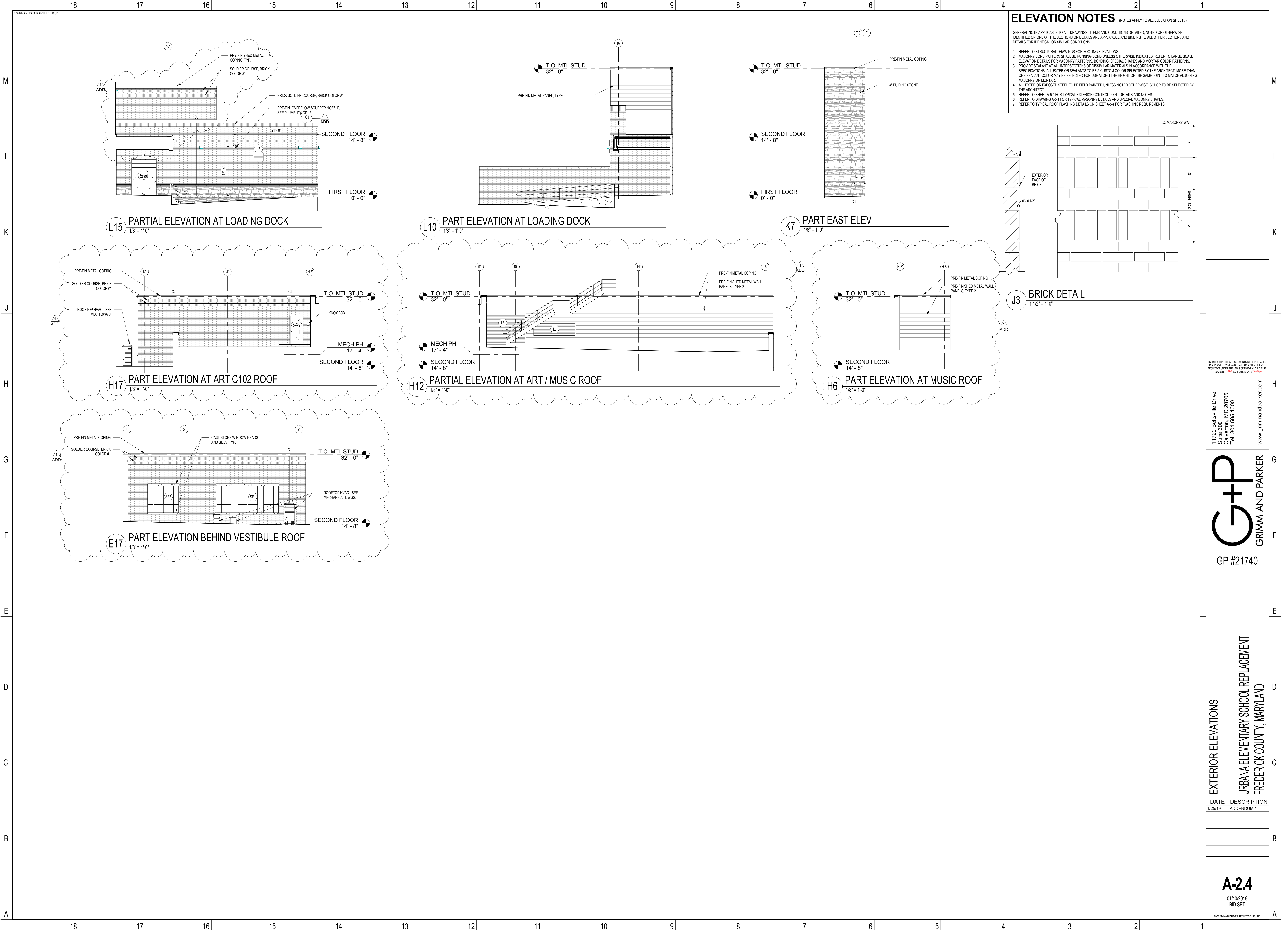
ROOF DETAILS
URBANA ELEMENTARY SCHOOL REPLACEMENT
FREDERICK COUNTY, MARYLAND

DATE DESCRIPTION
1/25/19 ADDENDUM 1

A-1.12
01/10/2019
BID SET

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1. REFER TO STRUCTURAL DRAWINGS FOR FOOTING ELEVATIONS.
2. MASONRY BOND PATTERN SHALL BE RUNNING BOND UNLESS OTHERWISE INDICATED. REFER TO LARGE SC SECTION ELEVATION DETAILS FOR MASONRY PATTERNS, BONDING, SPECIAL SHAPES AND MORTAR COLOR PATTERN.
3. PROVIDE SEALANT AT ALL INTERSECTIONS OF DISSIMILAR MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS. ALL EXTERIOR SEALANTS TO BE A CUSTOM COLOR SELECTED BY THE ARCHITECT. MORE THAN ONE COLOR MAY BE SELECTED FOR USE ALONG THE HEIGHT OF THE SAME JOINT TO MATCH ADJACENT MASONRY OR MORTAR.
4. ALL EXTERIOR EXPOSED STEEL TO BE FIELD PAINTED UNLESS OTHERWISE NOTED. COLOR TO BE SELECTED BY THE ARCHITECT.
5. REFER TO SHEET A-5.4 FOR TYPICAL EXTERIOR CONTROL JOINT DETAILS AND NOTES.
6. REFER TO DRAWING A-5.4 FOR TYPICAL MASONRY DETAILS AND SPECIAL MASONRY SHAPES.
7. REFER TO TYPICAL ROOF FLASHING DETAILS ON SHEET A-5.4 FOR FLASHING REQUIREMENTS.



ELEVATION NOTES (NOTES APPLY TO ALL ELEVATION SHEETS)

GENERAL NOTE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED, NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.

1. REFER TO STRUCTURAL DRAWINGS FOR FOOTING ELEVATIONS.
2. MASONRY BOND PATTERN SHALL BE RUNNING BOND UNLESS OTHERWISE INDICATED. REFER TO LARGE SCALE ELEVATION DETAILS FOR MASONRY PATTERNS, BONDING, SPECIAL SHAPES AND MORTAR COLOR PATTERNS.
3. PROVIDE SEALANT AT ALL INTERSECTIONS OF DISSIMILAR MATERIALS IN ACCORDANCE WITH THE SPECIFICATIONS. ALL EXTERIOR SEALANTS TO BE A CUSTOM COLOR SELECTED BY THE ARCHITECT. MORE THAN ONE SEALANT COLOR MAY BE SELECTED FOR USE ALONG THE HEIGHT OF THE SAME JOINT TO MATCH ADJOINING MASONRY OR MORTAR.
4. ALL EXTERIOR EXPOSED STEEL TO BE FIELD PAINTED UNLESS NOTED OTHERWISE. COLOR TO BE SELECTED BY THE ARCHITECT.
5. REFER TO SHEET A-5.4 FOR TYPICAL EXTERIOR CONTROL JOINT DETAILS AND NOTES.
6. REFER TO DRAWING A-5.4 FOR TYPICAL MASONRY DETAILS AND SPECIAL MASONRY SHAPES.
7. REFER TO TYPICAL ROOF FLASHING DETAILS ON SHEET A-5.4 FOR FLASHING REQUIREMENTS.

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A duly LICENSED ARCHITECT UNDER THE LAWS OF MARYLAND, LICENSE NUMBER 1000, EXPIRATION DATE 11/30/2021

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GP #21740

EXTERIOR ELEVATIONS

URBANA ELEMENTARY SCHOOL REPLACEMENT

FREDERICK COUNTY, MARYLAND

DATE	DESCRIPTION
1/25/19	ADDENDUM 1

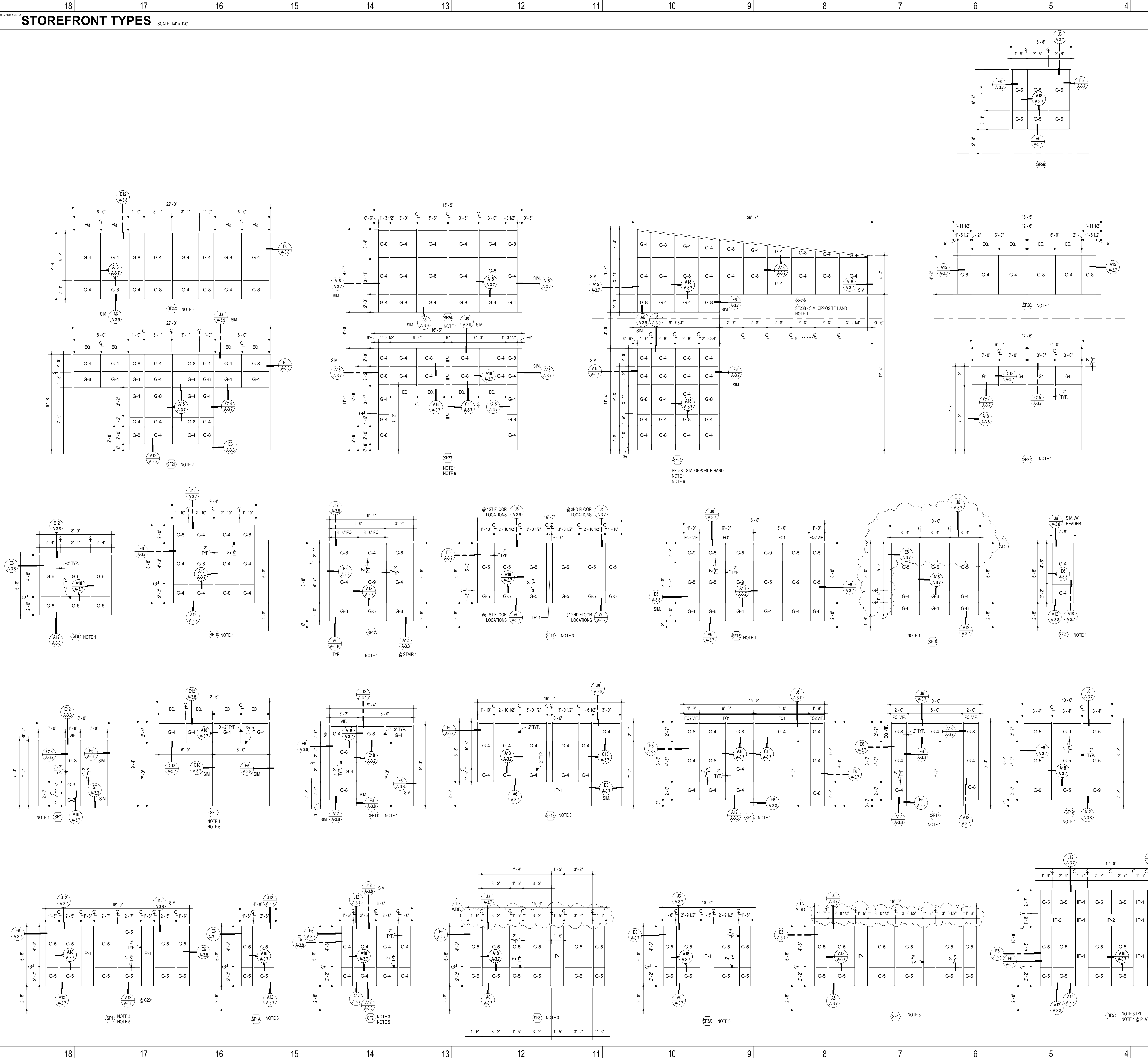
A-2.4

01/10/2019
BID SET

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M
L
K
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H
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F
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D
C
B
A

STOREFRONT TYPES SCALE: 1/4" = 1'-0"



STOREFRONT AND CURTAINWALL NOTES

- NOTES APPLY TO ALL FRAME ELEVATION SHEETS
1. VERIFY MASONRY & ROUGH OPENINGS, INCLUDING BUT NOT LIMITED TO STRUCTURAL LINTEL LOCATIONS, PRIOR TO FABRICATION.
 2. COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO MANUFACTURE AND INSTALL WINDOWS, STOREFRONT AND CURTAINWALL INCLUDING SUBFRAMES, AS REQUIRED.
 3. CONTINUOUSLY SEAL ALL SIDES OF STOREFRONT AND SUBFRAMES ABUTTING DISSIMILAR MATERIALS AT JAMBS, HEADS, AND SILLS, TYPICALLY.
 4. PROVIDE APPROPRIATE ANCHORAGE SYSTEM FOR ALL CONDITIONS TO SECURE WINDOWS IN ROUGH OPENINGS. PROVIDE SUBFRAMING AS SHOWN ON DETAILS AND/OR SPECIFIED.
 5. SEE HEAD, JAMB, AND SILL DETAIL SHEET FOR MORE INFORMATION.
 6. PROVIDE FOR THERMAL EXPANSION AT ALL STOREFRONT SYSTEMS.
 7. COORDINATE FRAMES WITH PLAN WHEN MORE THAN ONE CONSTRUCTION DETAIL IS REFERENCED.
 8. AS REQUIRED FOR DESIGN LOADING, WINDOW MANUFACTURER SHALL PROVIDE WULFON, REINFORCING AND VERTICAL EXTENSIONS UP TO STRUCTURE ABOVE (ATTACHMENT TO STRUCTURE BY MANUFACTURER). SEE SECTIONS AND DETAILS FOR ADDITIONAL WORK RELATING TO STOREFRONT SYSTEM.
 9. IDENTIFICATION OF OPENING TYPES AS "CURTAINWALL" OR "STOREFRONT" IS BASED ON SYSTEM REQUIREMENTS OF A PARTICULAR MANUFACTURER. CONTRACTOR IS TO DETERMINE BEST APPLICATION OF PROPOSED MANUFACTURE AND SYSTEM BASED ON PERFORMANCE REQUIREMENTS, SIZE OF OPENING, AND INSTALLATION CONDITION.
 10. OVERALL DIMENSIONS OF STOREFRONT ARE APPROXIMATE. CONTRACTOR TO COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO MANUFACTURE AND INSTALL STOREFRONT, INCLUDING SUBFRAMES, AS REQUIRED. CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS IN THE FIELD WITH THOSE SHOWN ON ALL DRAWINGS, INCLUDING DETAILS SHOWN ON OTHER SHEETS, PRIOR TO FABRICATION.
 11. PROVIDE TRANSLUCENT ROLLER SHADES AT ALL OPENINGS INCLUDING DOOR SIDELITES, BUT EXCLUDING DOOR LITES UNLESS OTHERWISE NOTED.
 12. COORDINATE STOREFRONT AND CURTAINWALL SYSTEMS WITH AIR BARRIER TRANSITION MEMBRANE SYSTEM AND MANUFACTURER-RECOMMENDED DETAILS FOR A COMPLETE AIR BARRIER SYSTEM.

HOLLOW METAL FRAME NOTES

1. CONTRACTOR SHALL VERIFY ALL MASONRY AND ROUGH OPENINGS WITH HOLLOW METAL FRAME SIZES.
2. CONTRACTOR TO COORDINATE REQUIRED TOLERANCES IN ALL DIMENSIONS NEEDED TO MANUFACTURE AND INSTALL HOLLOW METAL FRAMES. VERIFY ACTUAL DIMENSIONS IN THE FIELD WITH THOSE SHOWN ON ALL DRAWINGS, INCLUDING DETAILS SHOWN ON OTHER SHEETS.
3. CONTINUOUSLY SEAL ALL SIDES OF HOLLOW METAL FRAMES ABUTTING DISSIMILAR MATERIALS AT JAMBS, HEADS, AND SILLS, TYPICALLY (EXCEPT AT DOOR SILLS UNLESS OTHERWISE NOTED).
4. TYPICAL WIDTH OF RETURNS ON HOLLOW METAL FRAMES IS 1 1/8" @ HEADS, JAMBS, AND SILLS. CENTER SECTION OF FRAME VARIES IN WIDTH WITH RESPECTIVE WALL TYPE. SEE PLANS.
5. SEE HEAD, JAMB, AND SILL DETAIL SHEET FOR MORE INFORMATION.
6. FILL ALL HOLLOW METAL (HM) FRAMES ABUTTING MASONRY WITH GROUT. FILL INTERMEDIATE MEMBERS AS SHOWN IN DETAILS (TYPICAL).
7. PROVIDE OPAQUE ROLLER SHADES AT ALL INTERIOR OPENINGS INCLUDING DOOR SIDELITES, BUT EXCLUDING DOOR LITES UNLESS OTHERWISE NOTED.

GLASS TYPE KEY

- G-1 1/4" LAMINATED FIRE RATED GLASS
- G-2 CLEAR LAMINATED GLASS - 0.030 INTERLAYER
- G-3B CLEAR LAMINATED GLASS - 0.060 INTERLAYER
- G-3 1" INSULATING GLASS, CONSISTING OF:
1/4" TEMPERED GLASS, EXTERIOR LITE
1/2" AIR SPACE, AND
CLEAR LAMINATED GLASS - 0.060 INTERLAYER
- G-4 1" INSULATING GLASS, CONSISTING OF:
1/4" TEMPERED GLASS, EXTERIOR LITE
1/2" AIR SPACE, AND
1/4" TEMPERED GLASS
- G-5 1" INSULATING GLASS, CONSISTING OF:
1/4" CLEAR GLASS, EXTERIOR LITE
1/2" AIR SPACE, AND
1/4" CLEAR GLASS
- G-6 1" INSULATING GLASS, CONSISTING OF:
1/4" TEMPERED GLASS, EXTERIOR LITE
1/2" AIR SPACE, AND
1/4" TEMPERED GLASS WITH WHITE PVB LAYER (ON AIR SPACE SIDE)
- G-7 1" INSULATING GLASS, CONSISTING OF:
1/4" TEMPERED GLASS, EXTERIOR LITE
1/2" AIR SPACE, AND
1/4" CLEAR GLASS WITH CERAMIC FRIT SPANDREL PANEL
- G-8 SAME AS G-4, COLOR 1
- G-9 SAME AS G-5, COLOR 1
- IP-1 INSULATED ALUMINUM GLAZING PANEL - COLOR 1
- IP-2 INSULATED ALUMINUM GLAZING PANEL - COLOR 2

NUMBERED REMARKS

- NOTE 1: ROLLER SHADES NOT REQUIRED AT THIS LOCATION
- NOTE 2: PROVIDE ELECTRIC TRANSLUCENT ROLLER SHADES AT THIS FRAME OPENING.
- NOTE 3: PROVIDE MANUAL, TRANSLUCENT ROLLER SHADES AT THIS FRAME OPENING.
- NOTE 4: PROVIDE BOTH TRANSLUCENT AND BLACK-OUT SHADES AT THIS FRAME OPENING. BOTH ARE ELECTRICALLY OPERATED.
- NOTE 5: PROVIDE STOREFRONT FRAME WITH INTEGRAL, PRE-FINISHED ALUM. FRAME MOUNTED SUNSHADE DEVICES (SEE SPEC) AT ALL SOUTH FACING LOCATIONS
- NOTE 6: SEE ALTERNATE NO. 7
- NOTE 7: PROVIDE HOLLOW METAL FRAME AT THIS LOCATION ONLY

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GP #21740

FRAME ELEVATIONS

URBANA ELEMENTARY SCHOOL REPLACEMENT
FREDERICK COUNTY, MARYLAND

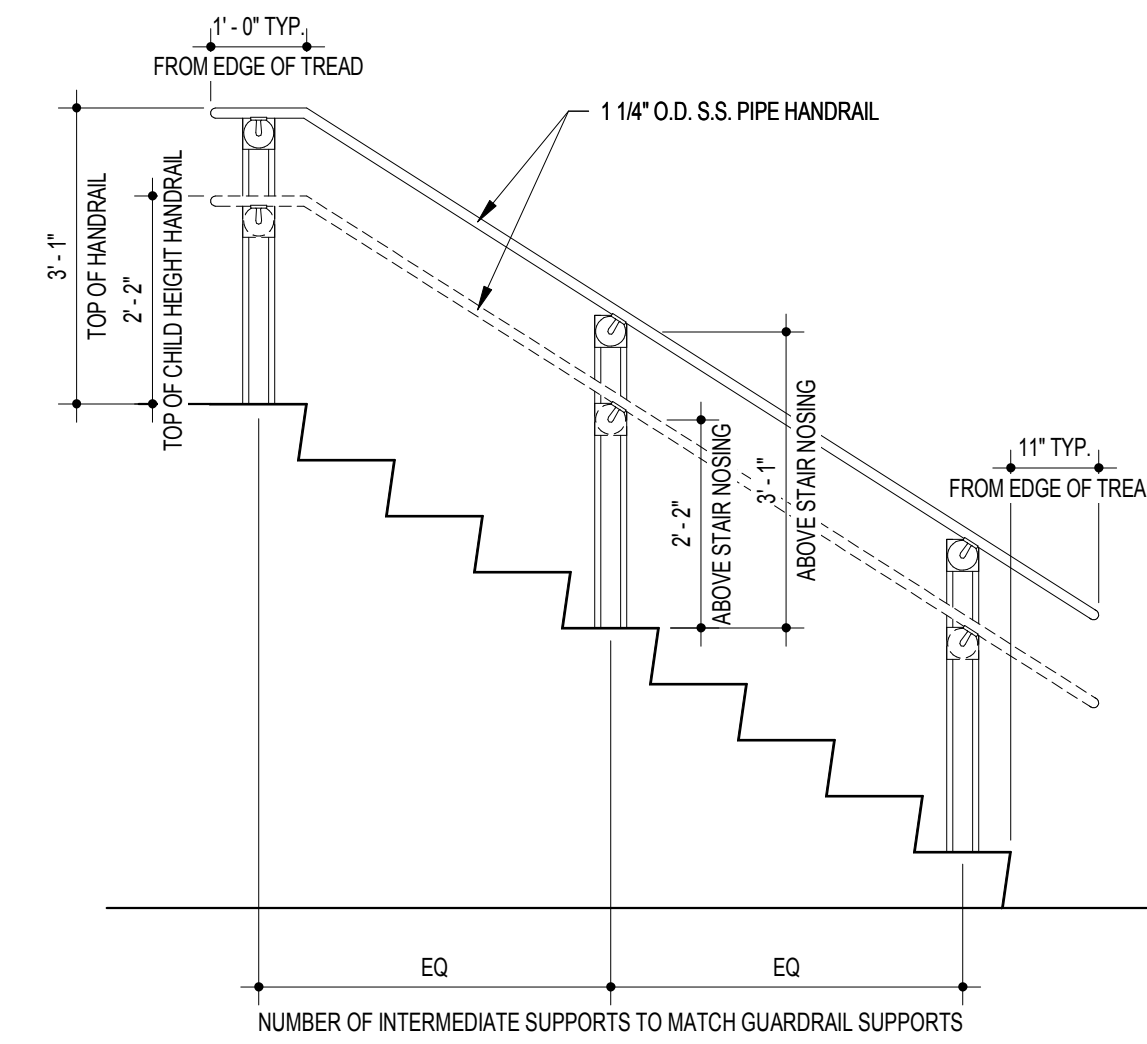
DATE	DESCRIPTION
1/25/19	ADDENDUM 1

A-3.6
01/10/2019
BID SET

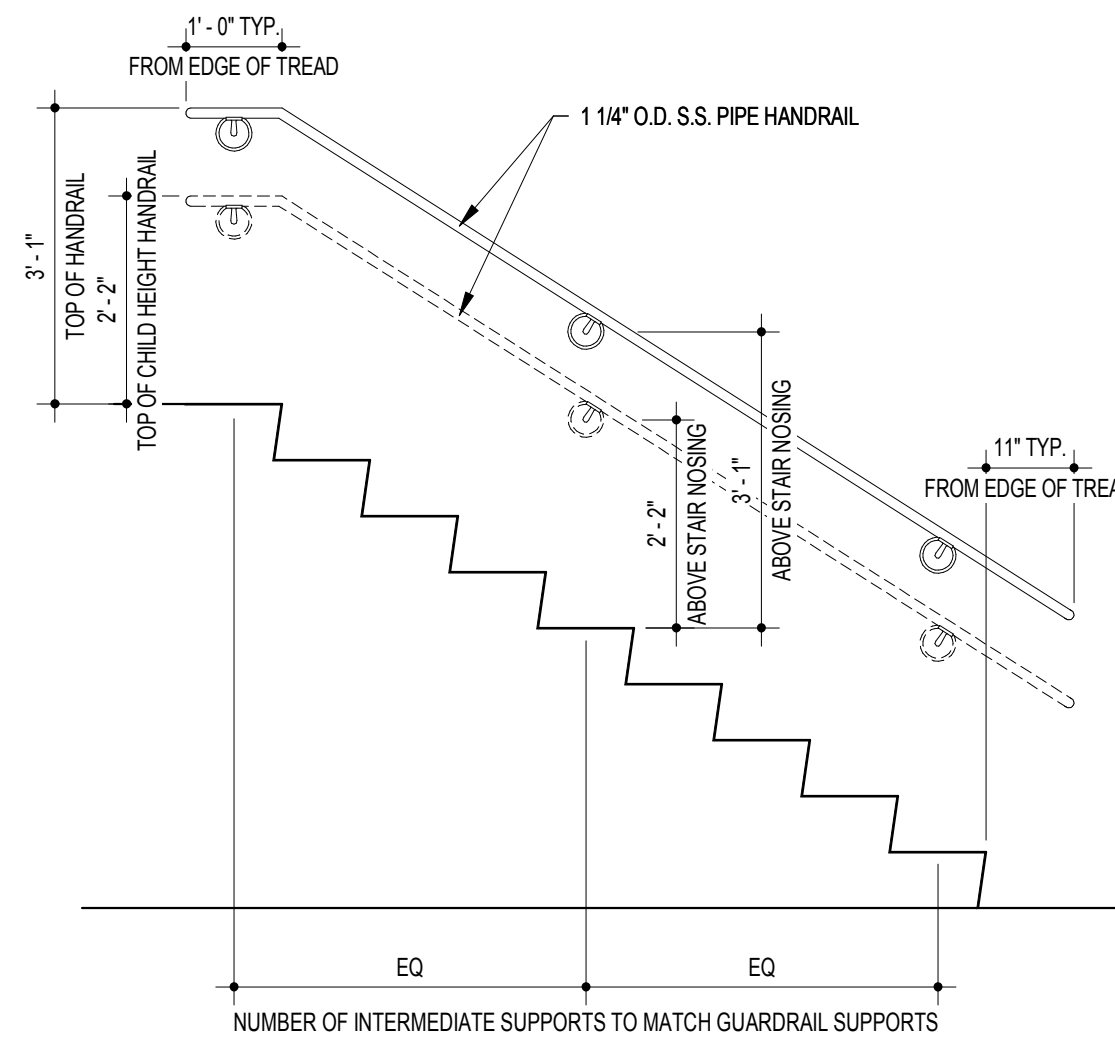
TYPICAL STAIR NOTES

1. SEE STRUCTURAL DRAWINGS FOR STAIR LOADING REQUIREMENTS.
2. TREADS: 1 1/2" MIN. CONCRETE FILLED, MIN. 14 GA. STEEL PAN ANCHORED WITH CONTINUOUS ANGLES WELDED TO STRINGER. SEE FINISH SCHEDULE FOR TREAD FINISH. PROVIDE TWO-PIECE EXTRUDED ALUMINUM ABRASIVE STAIR NOSING. COORDINATE DEPTH OF CONCRETE WITH SPECIFIED NOSING AND FLOOR FINISH FOR A FLUSH AND LEVEL CONDITION. PREPARE CONC. SURFACE TO FINISH MANUFACTURERS INSTRUCTIONS.
3. RISERS: CLOSED MIN. 14 GA. STEEL RISERS WITH INTEGRAL SANITARY COVE, ANCHORED WITH CONTINUOUS ANGLES WELDED TO STRINGER, UNLESS DETAILED OR NOTED OTHERWISE.
4. STRINGERS: 12" MINIMUM CHANNEL SECTIONS TYPICAL, UNLESS DETAILED OR NOTED OTHERWISE.
5. HANDRAILS: 1 1/4" O.D. STAINLESS STEEL PIPE, CONTINUOUS PIECES AND SECURED TO BRACKETS AT SPACING REQUIRED TO MEET LOAD REQUIREMENTS - SEE SPECIFICATIONS.
6. HANDRAIL BRACKETS: STAINLESS STEEL.
7. GUARDRAILS: SEE SPECIFICATIONS AND DETAILS. ALL CONNECTIONS TO BE WELDED AND GRIND SMOOTH. COMMERCIAL LEVEL FIELD PAINTED AT FULLY ENCLOSED STAIRS. ALL OTHER STAIRS TO BE ARCHITECTURAL LEVEL FIELD PAINTED.
8. LANDINGS: SEE STRUCTURAL DRAWINGS FOR LANDINGS DESIGNED BY THE STRUCTURAL ENGINEER. LANDINGS NOT DESIGNED BY THE STRUCTURAL ENGINEER MUST BE ENGINEERED AND PROVIDED BY THE STAIR FABRICATOR AND MUST COMPLY WITH THE FOLLOWING: 3" CONCRETE SLAB ON GALVANIZED METAL DECK WITH 6"x6" #8 WWF.

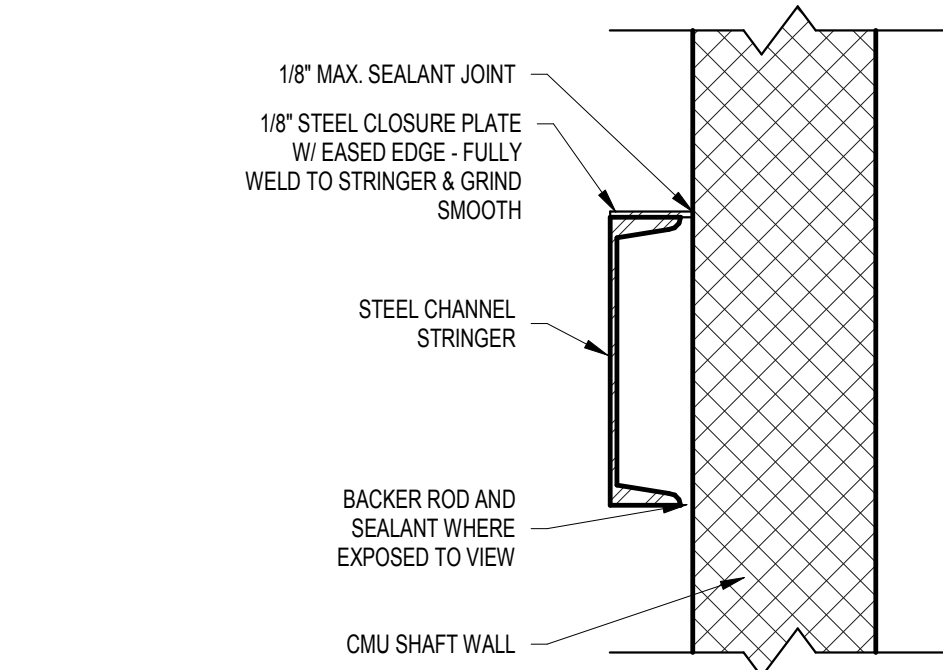
K9 TYP. INTERMEDIATE HANDRAIL ELEVATION
1/2" = 1'-0"



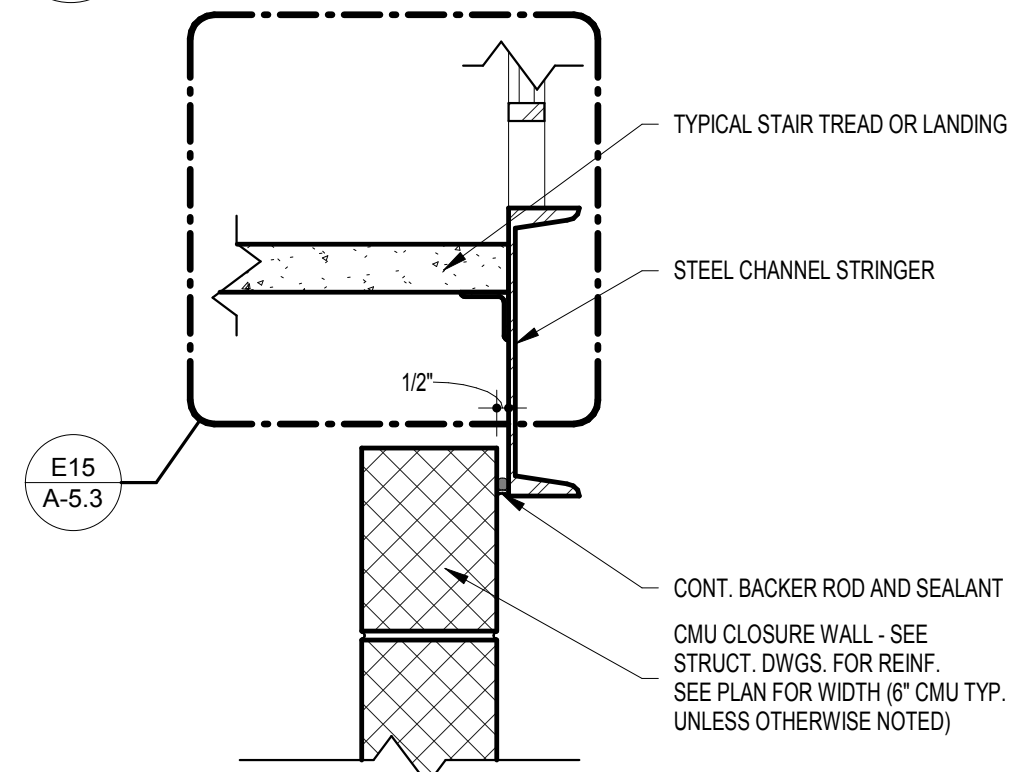
K6 TYP. HANDRAIL ELEVATION AT WALL
1/2" = 1'-0"



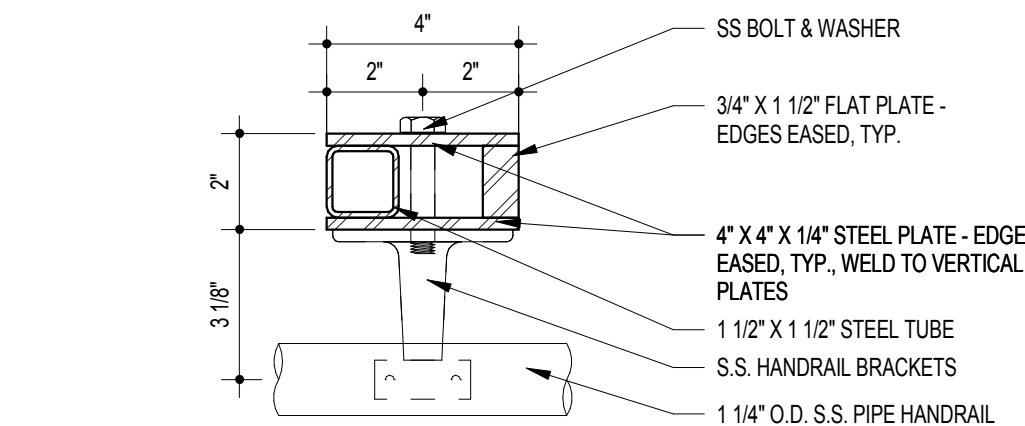
J3 DETAIL - STRINGER @ WALL
1 1/2" = 1'-0"



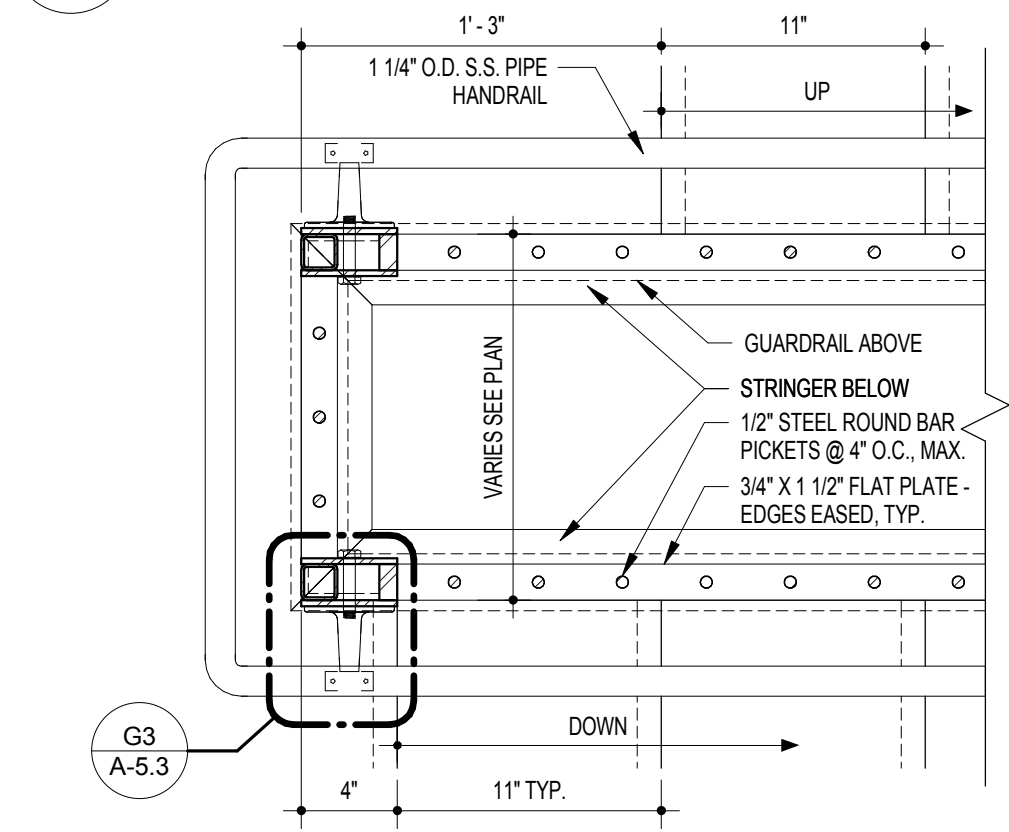
H6 DETAIL - STRINGER @ CLOSURE WALL
1 1/2" = 1'-0"



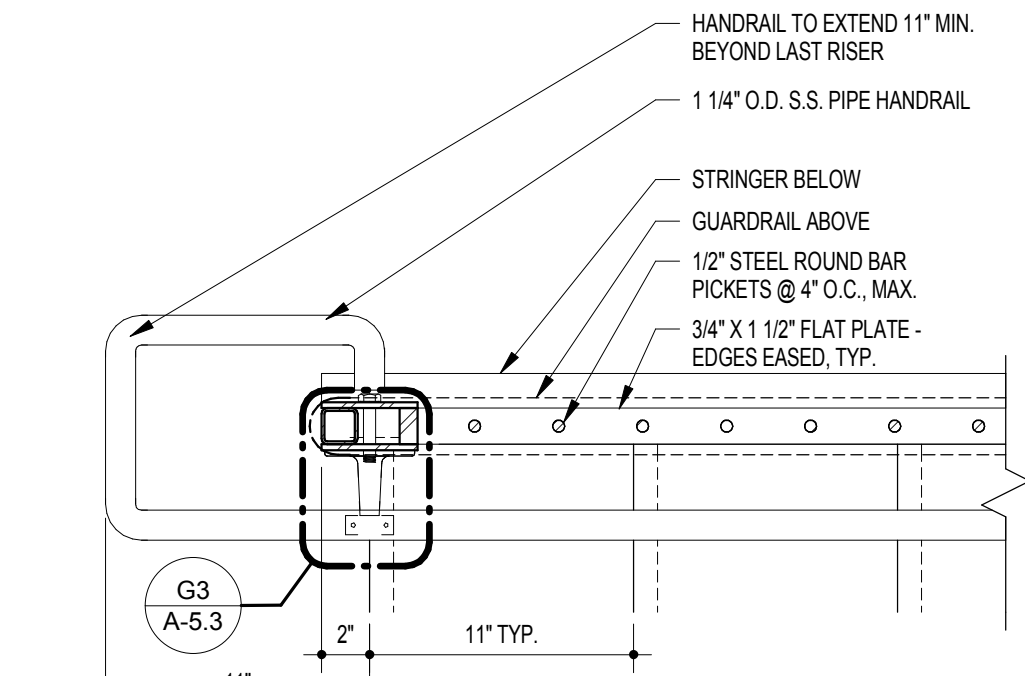
G3 HANDRAIL PLAN DETAIL
3" = 1'-0"



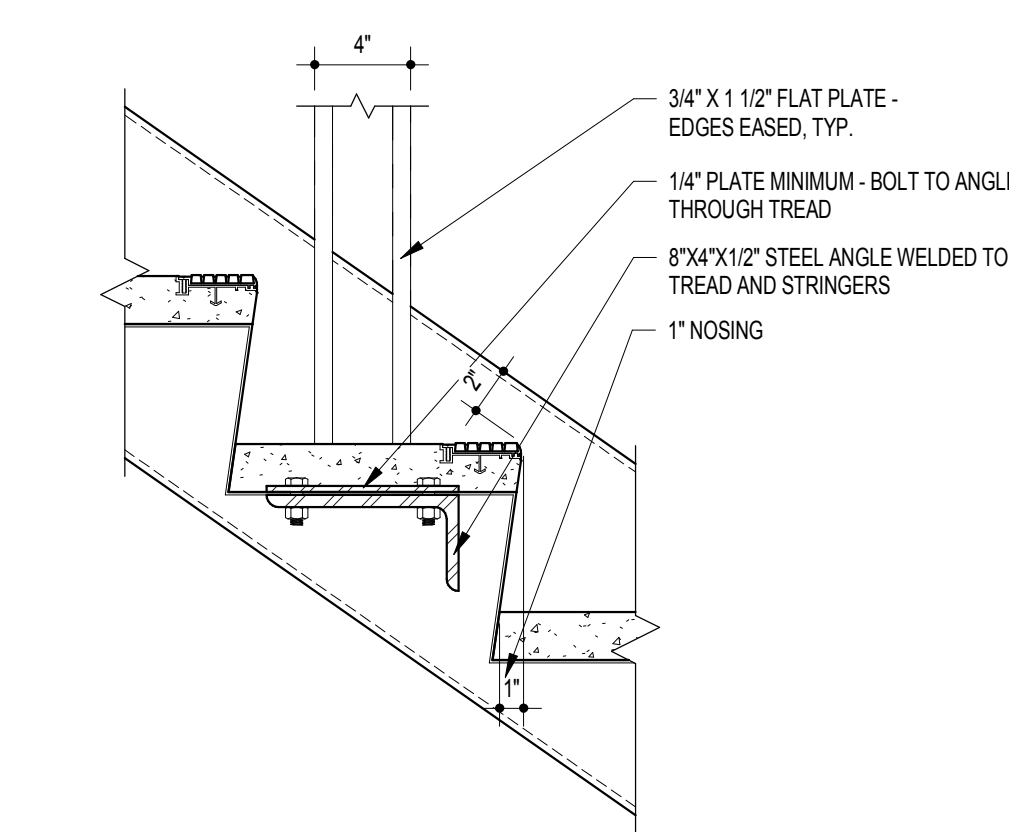
E6 RAILING PLAN DETAIL AT MID-LANDING
1 1/2" = 1'-0"



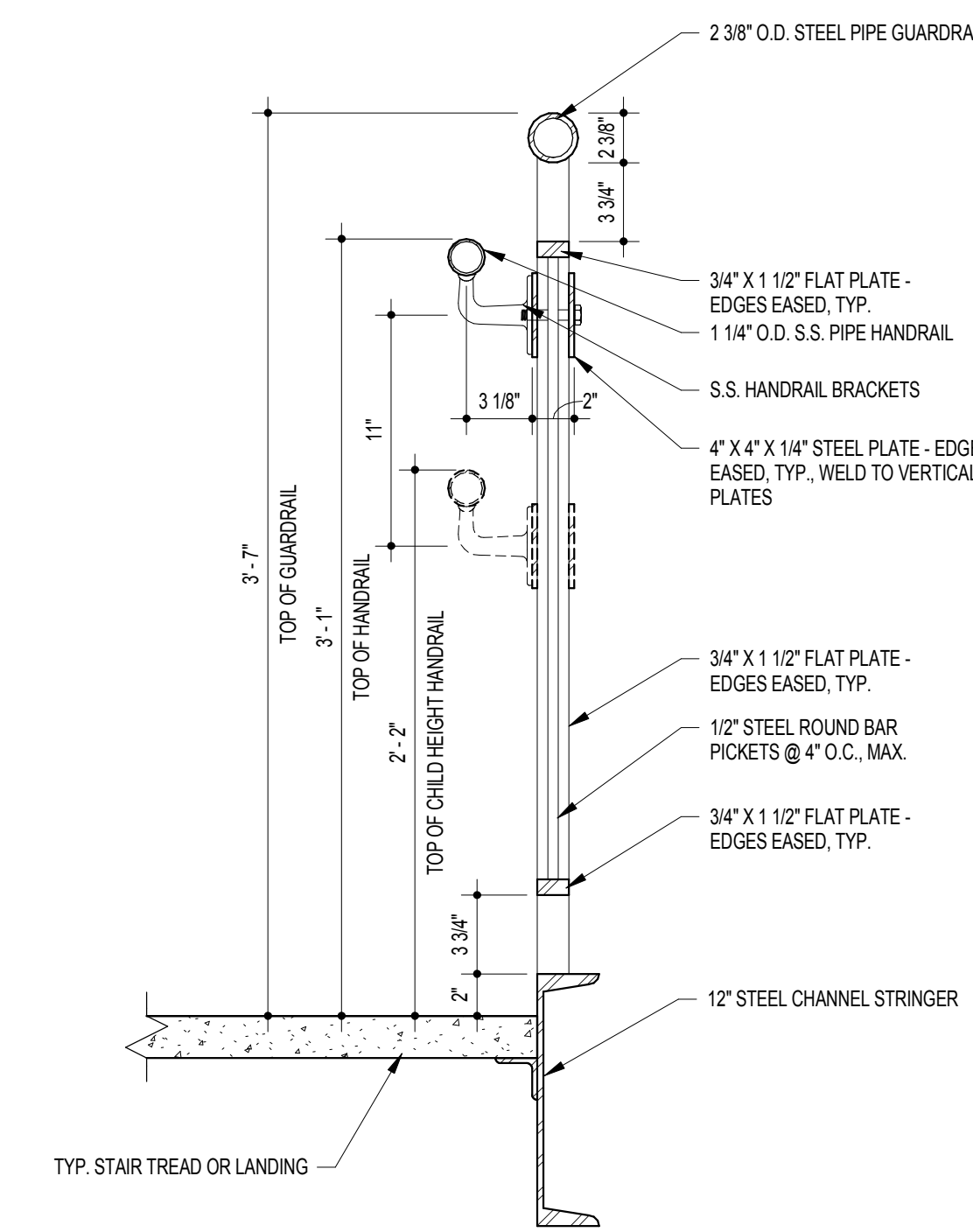
E3 RAILING PLAN DETAIL
1 1/2" = 1'-0"



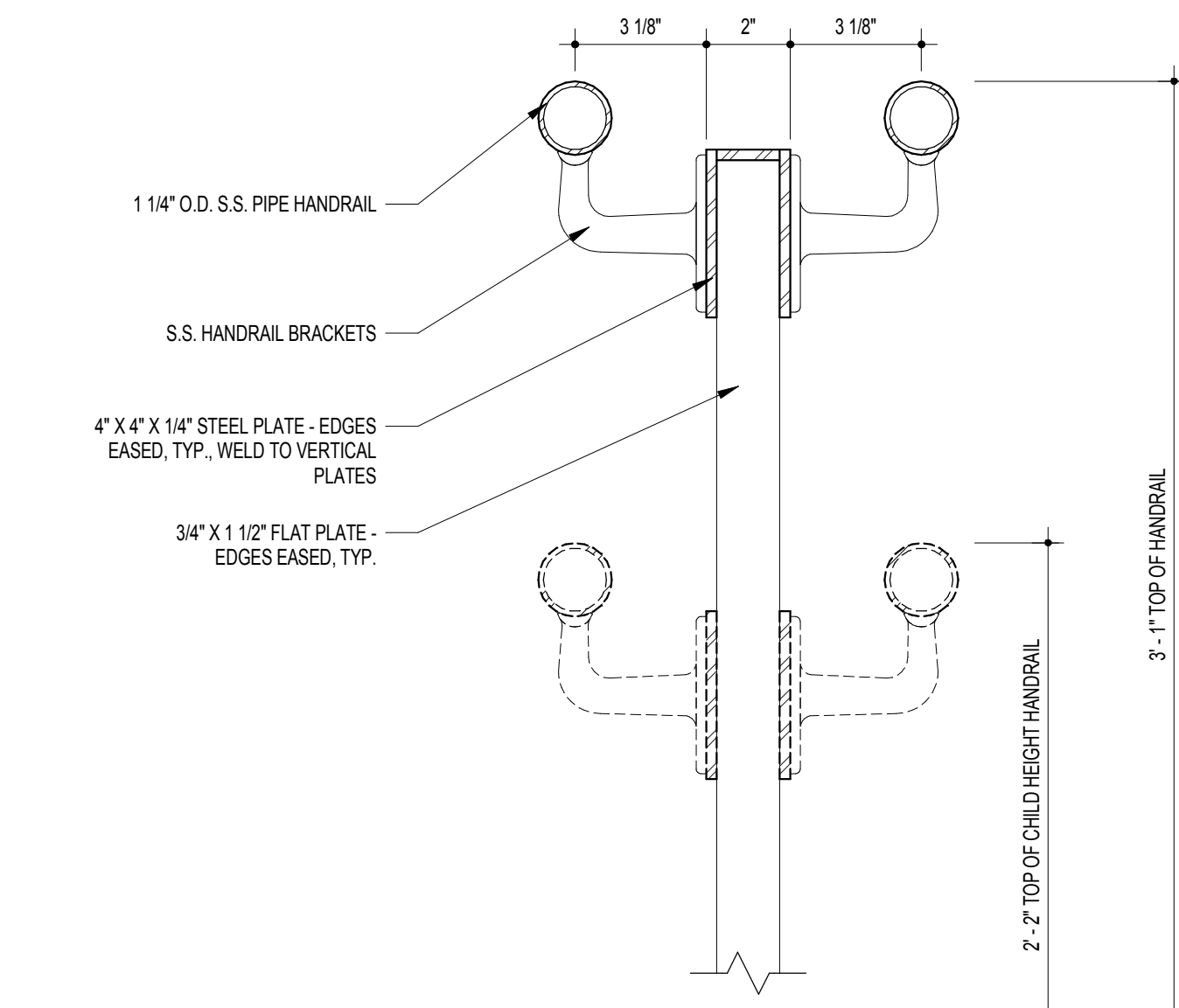
E18 DETAIL - INTER. RAIL SUPPORT
1 1/2" = 1'-0"



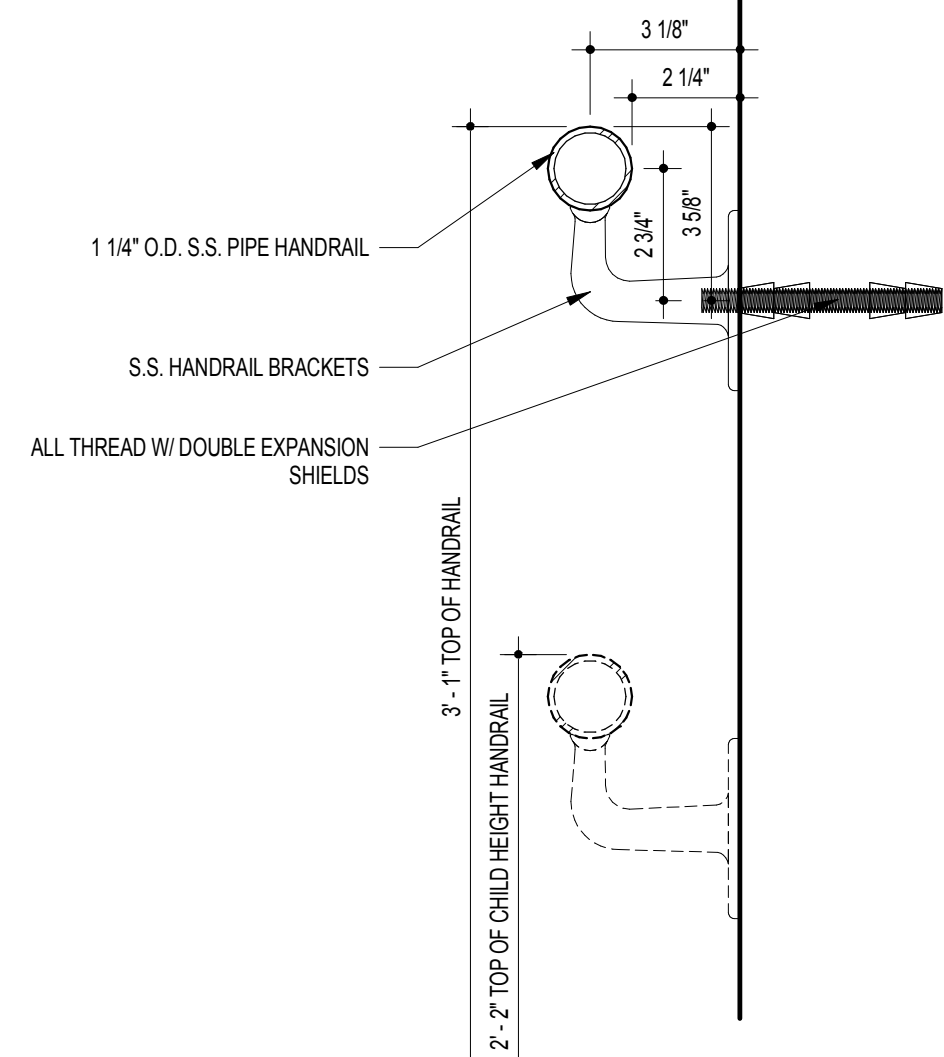
E15 RAILING DETAIL
1 1/2" = 1'-0"



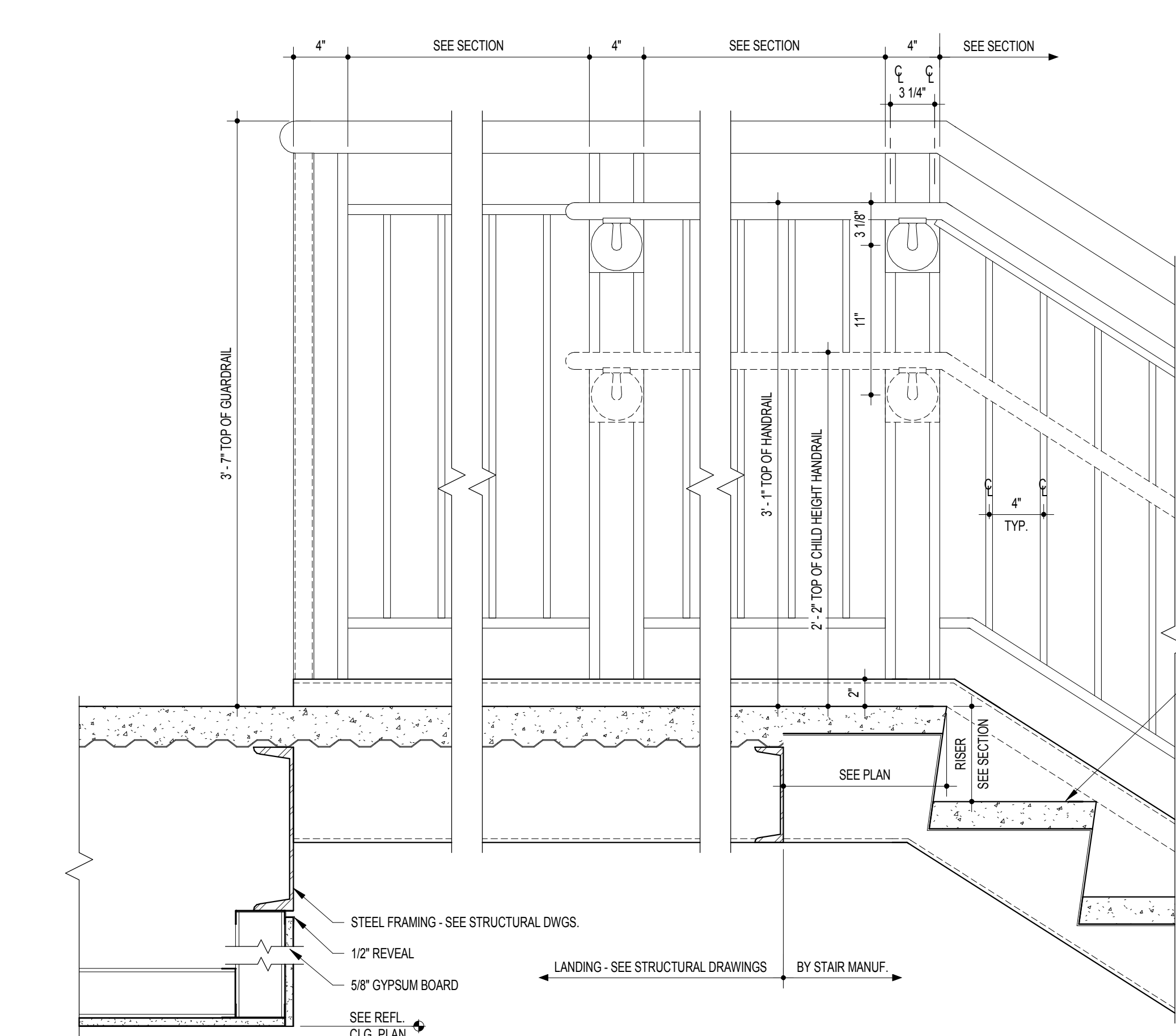
E12 INTERMEDIATE RAILING DETAIL
3" = 1'-0"



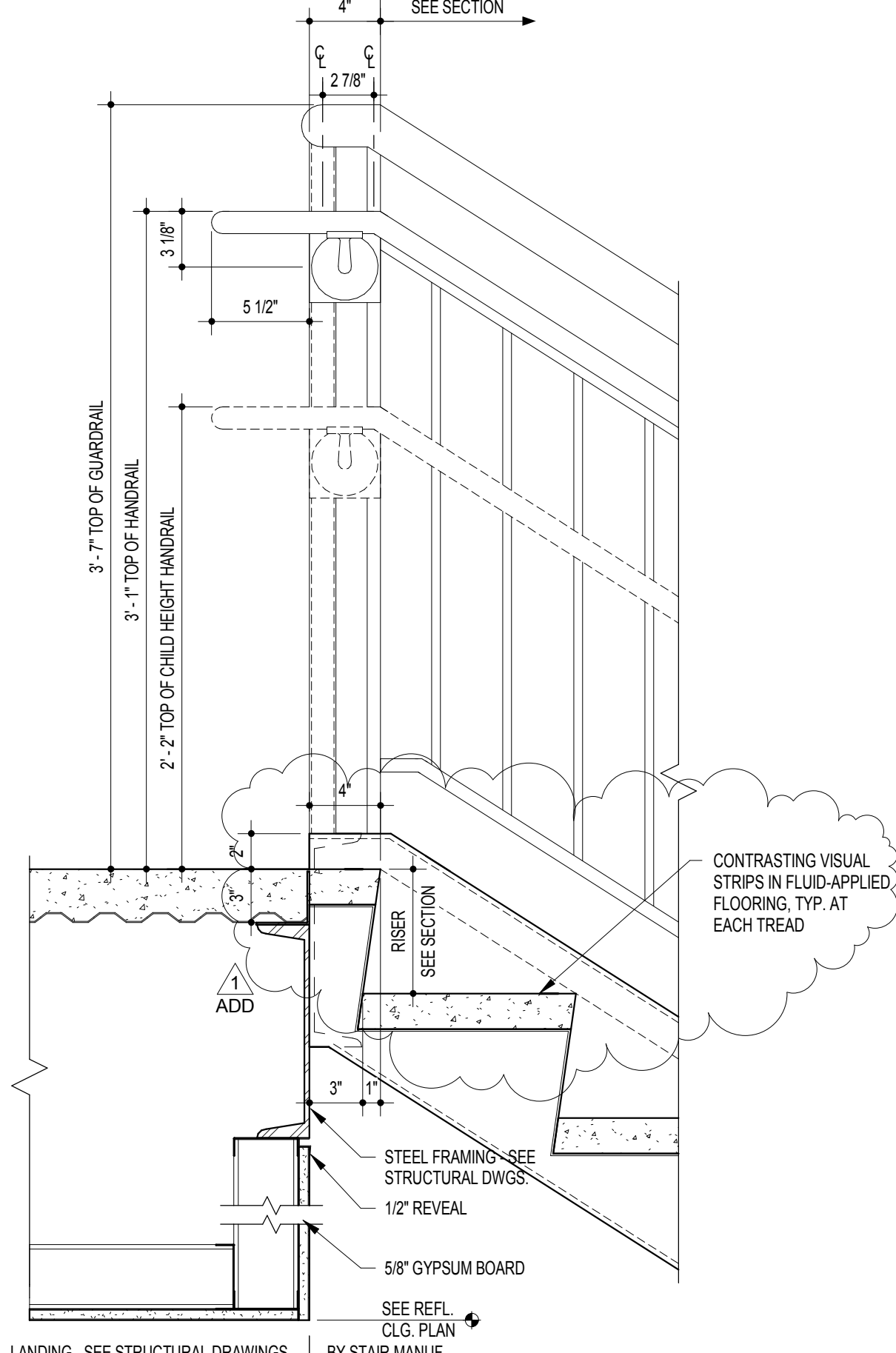
E9 RAILING DETAIL AT WALL
3" = 1'-0"



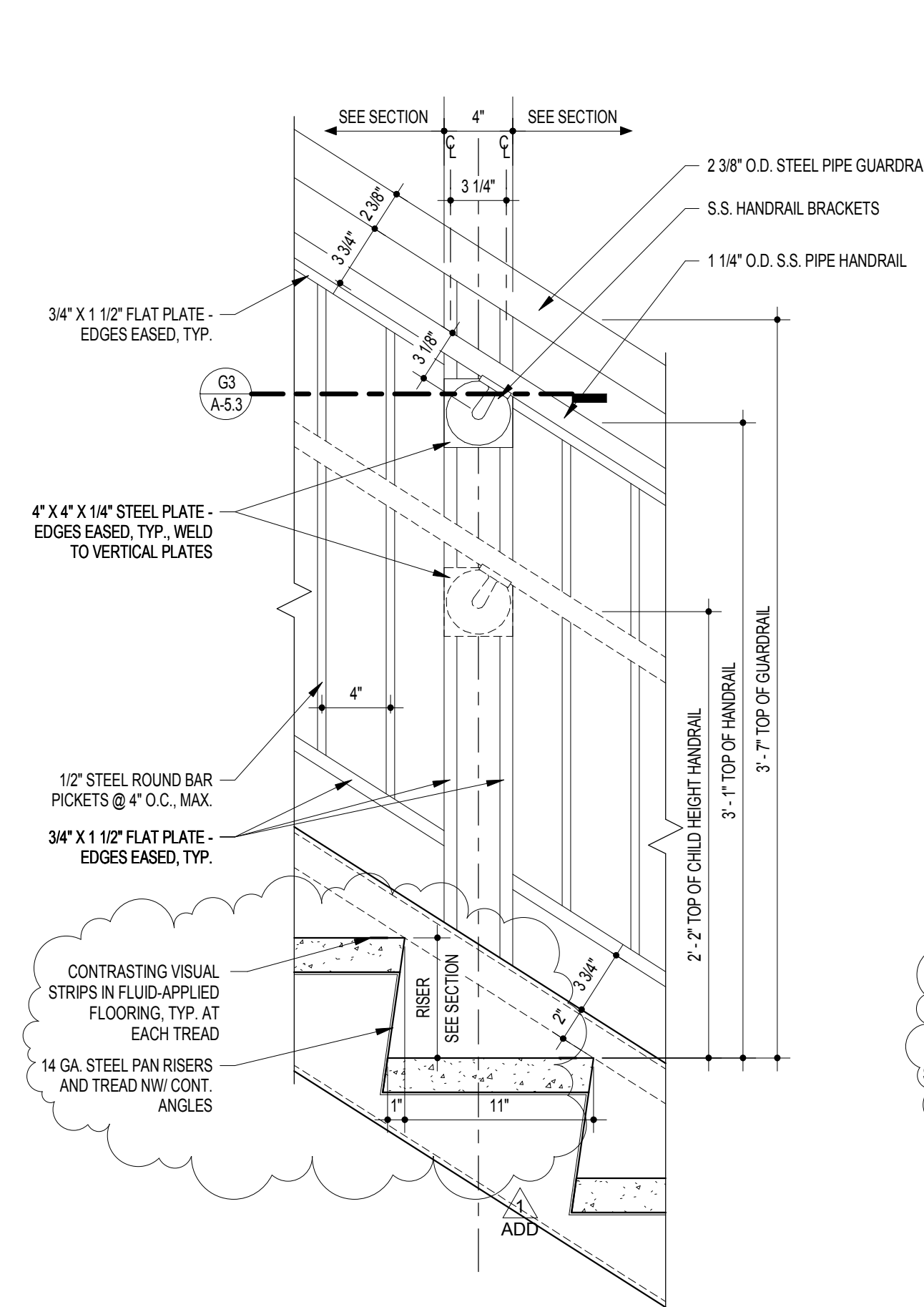
A18 RAILING DETAIL AT TOP FLOOR LANDING
1 1/2" = 1'-0"



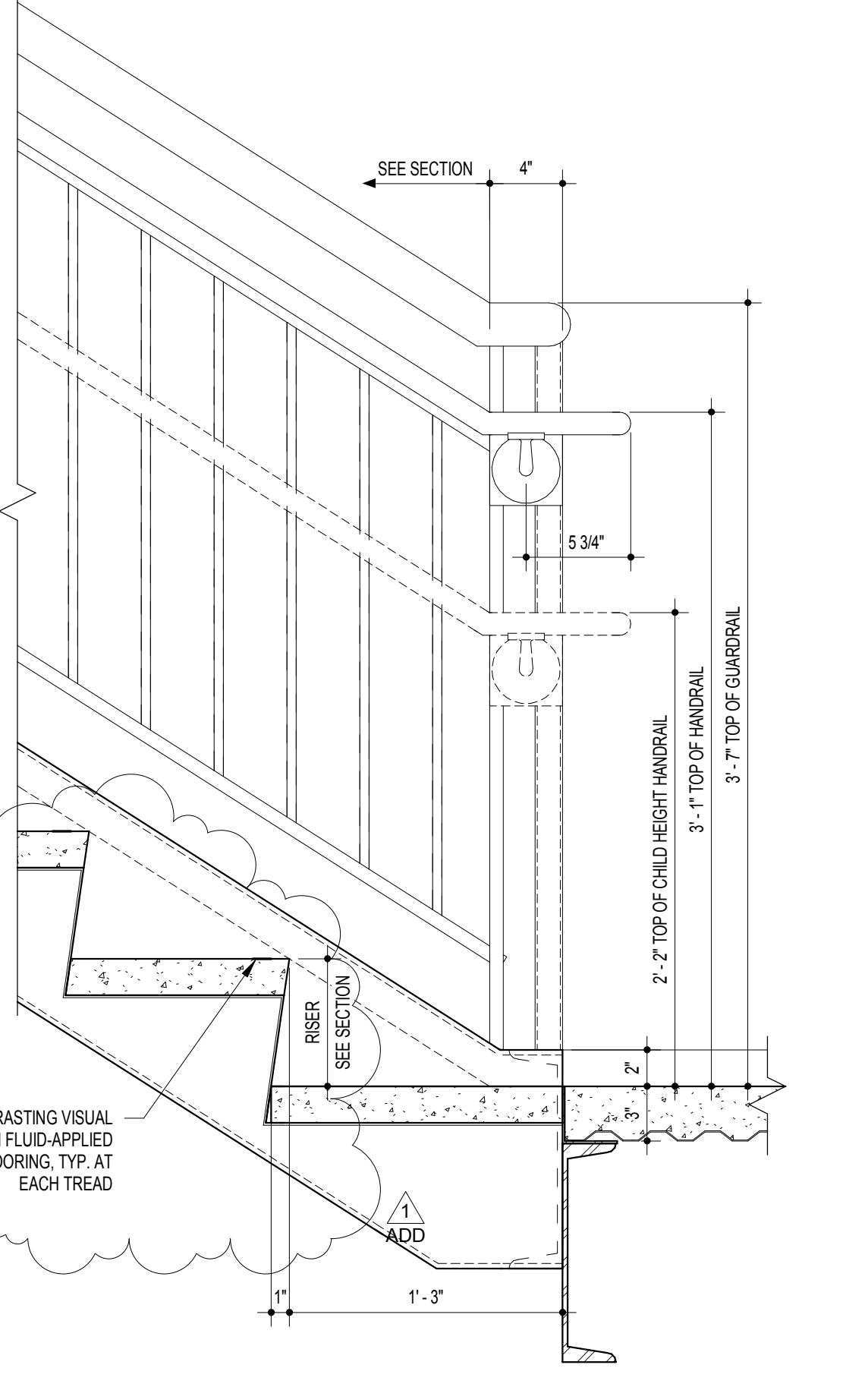
A12 RAILING DETAIL AT LANDING
1 1/2" = 1'-0"



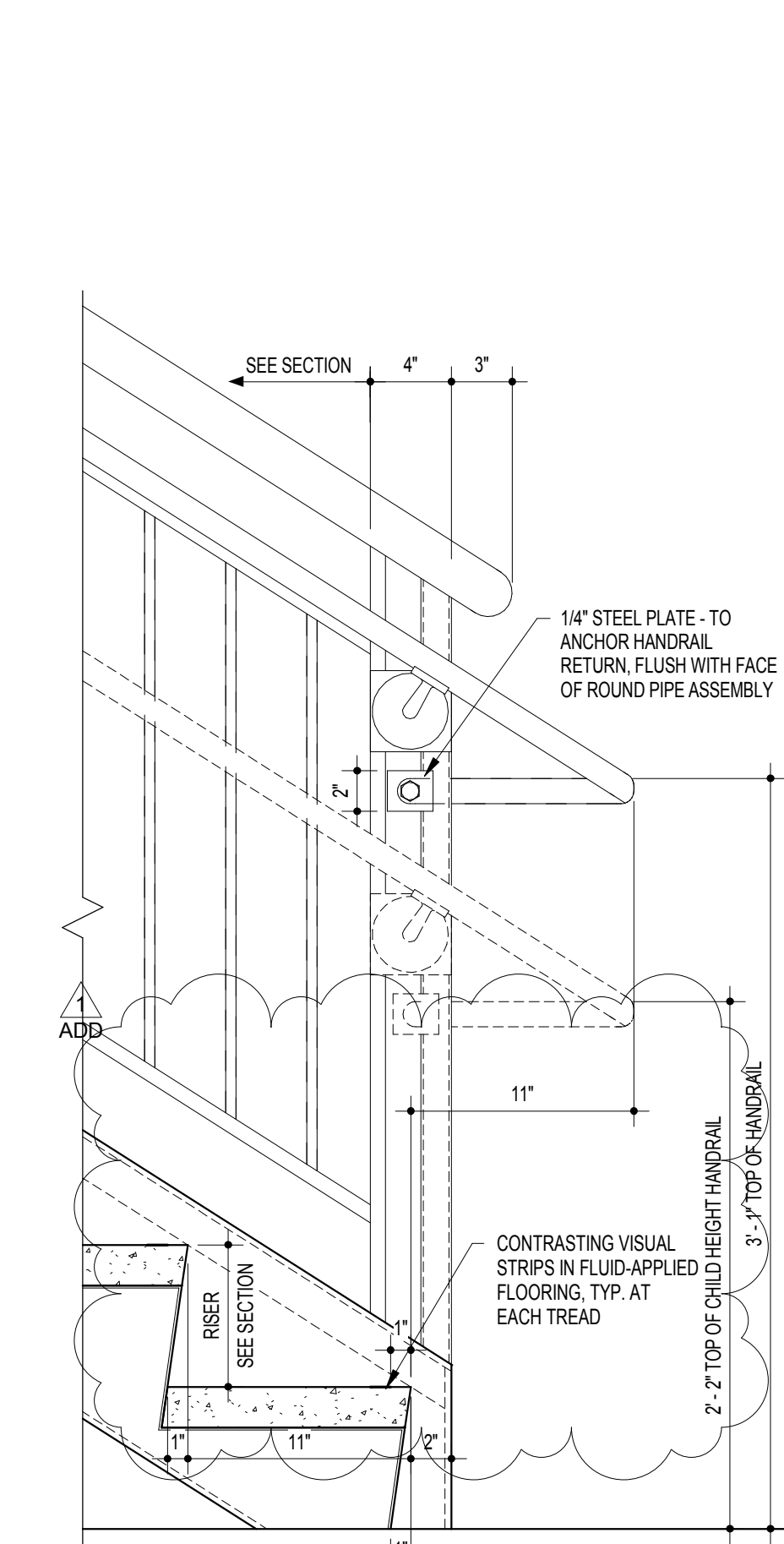
A9 RAILING DETAIL
1 1/2" = 1'-0"



A6 RAILING DETAIL AT MID LANDING
1 1/2" = 1'-0"



A3 RAILING DTL AT BOTTOM LANDING
1 1/2" = 1'-0"



STAIR DETAILS

URBANA ELEMENTARY SCHOOL REPLACEMENT
FREDERICK COUNTY, MARYLAND

DATE	DESCRIPTION
1/25/19	ADDENDUM 1

A-5.3
01/10/2019
BID SET



C16 PARTIAL FIRST FLOOR REFLECTED CEILING PLAN - AREA A
1/8" = 1'-0"

RCP NOTES

(APPLY TO SHEETS A-7.1 - A-7.8)

1. TYPICAL CEILING HEIGHT SHALL BE 9'-0" UNLESS OTHERWISE INDICATED ON REFLECTED CEILING PLANS. TOILETS AND STORAGE ROOMS TO BE 9'-0".
2. REFER TO ELECTRICAL DRAWINGS FOR LIGHT PATTERN AND EXIT LIGHT LOCATIONS. NOTIFY ARCHITECT OF DISCREPANCIES PRIOR TO SHOP DRAWINGS.
3. ALL WALLS SHOWN EXTEND TO THE STRUCTURAL DECK (SEE WALL TYPES) AT CORRIDOR CHASE WALLS AND LOCKER FIN WALLS. EXTENDED 4" ABOVE THE CEILING.
4. REFER TO MECHANICAL, ELECTRICAL, AND PLUMBING DRAWINGS FOR ITEMS NOT SHOWN ON CEILING PLAN. GRILLES, SPEAKERS, SPRINKLERS, HEAT & SMOKE DETECTORS, SHALL BE CENTERED IN TILES UNLESS NOTED OTHERWISE.
5. ALL BULKHEAD DIMENSIONS ARE FROM FINISH FACE OF WALL OR BULKHEAD TO FINISH FACE OF BULKHEAD.
6. PROVIDE 1/2" REVEALS BETWEEN DISSIMILAR MATERIALS ON THE SAME PLANE AT THE CEILINGS.
7. IN AREAS OF EXPOSED CEILINGS, PAINT EXPOSED STRUCTURE, UNDERSIDE OF DECK, SPRINKLER PIPING, CONDUIT AND ALL MISCELLANEOUS OVERHEAD ITEMS. COLORS TO BE SELECTED BY ARCHITECT.

CEILING REMARKS NOTES

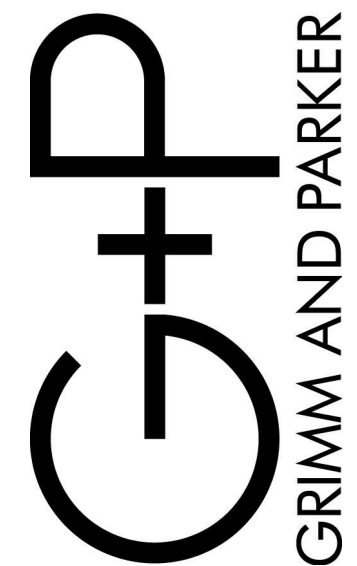
(APPLY TO SHEETS A-7.1 - A-7.8)

- GENERAL NOTE APPLICABLE TO ALL DRAWINGS - ITEMS AND CONDITIONS DETAILED NOTED OR OTHERWISE IDENTIFIED ON ONE OF THE SECTIONS OR DETAILS ARE APPLICABLE AND BINDING TO ALL OTHER SECTIONS AND DETAILS FOR IDENTICAL OR SIMILAR CONDITIONS.
1. REFER TO DETAIL A8A-7.8
 2. REFER TO DETAIL C4A-7.8
 3. REFER TO DETAIL C7A-7.8
 4. REFER TO DETAIL E4A-7.8
 5. REFER TO DETAIL E7A-7.8
 6. REFER TO DETAIL G3A-7.8
 7. REFER TO DETAIL G7A-7.8
 8. REFER TO DETAIL H3A-7.8
 9. REFER TO DETAIL H11A-7.8
 10. REFER TO DETAIL J7A-7.8
 11. REFER TO DETAIL K7A-7.8
 12. REFER TO DETAIL K11A-7.8
 13. PAINT EXPOSED STRUCTURE, UNDERSIDE OF DECK, SPRINKLER PIPING, CONDUIT, AND ALL MISCELLANEOUS OVERHEAD ITEMS. COLORS TO BE SELECTED BY ARCHITECT
 14. PAINT UNDERSIDE OF STAIR. COLORS TO BE SELECTED BY ARCHITECT
 15. CUBICLE CURTAIN TRACK COORDINATE EXACT LOCATION WITH FLOOR PLAN. SEE DETAIL K3A-7.8
 16. NOT USED
 17. NOT USED

RCP LEGEND

I CERTIFY THAT THESE DOCUMENTS WERE PREPARED OR APPROVED BY ME AND THAT I AM A duly LICENSED ARCHITECT UNDER THE LAWS OF MARYLAND, LICENSE NUMBER 1000. EXPIRATION DATE 12/31/2024.

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Suite 600
Calverton, MD 20705
Tel. 301.595.1000

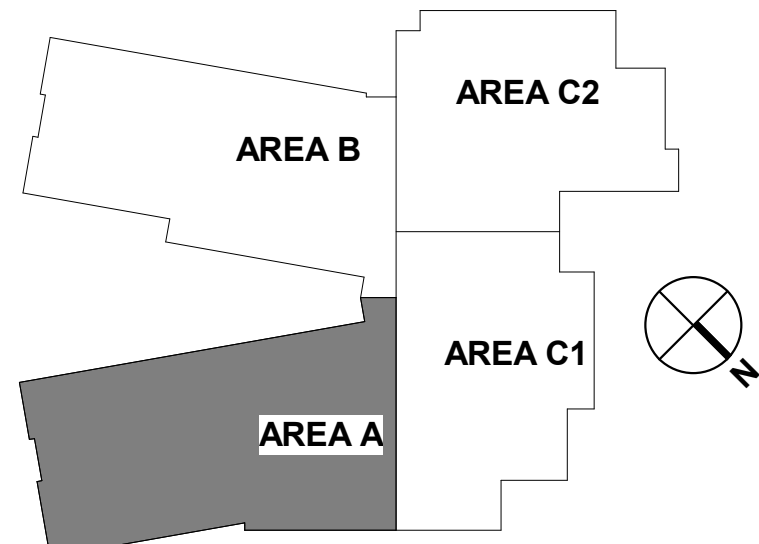


GP #21740

REFLECTED CEILING PLAN- FIRST FLOOR- AREA A

URBANA ELEMENTARY SCHOOL REPLACEMENT
FREDERICK COUNTY, MARYLAND

KEY PLAN- AREA A

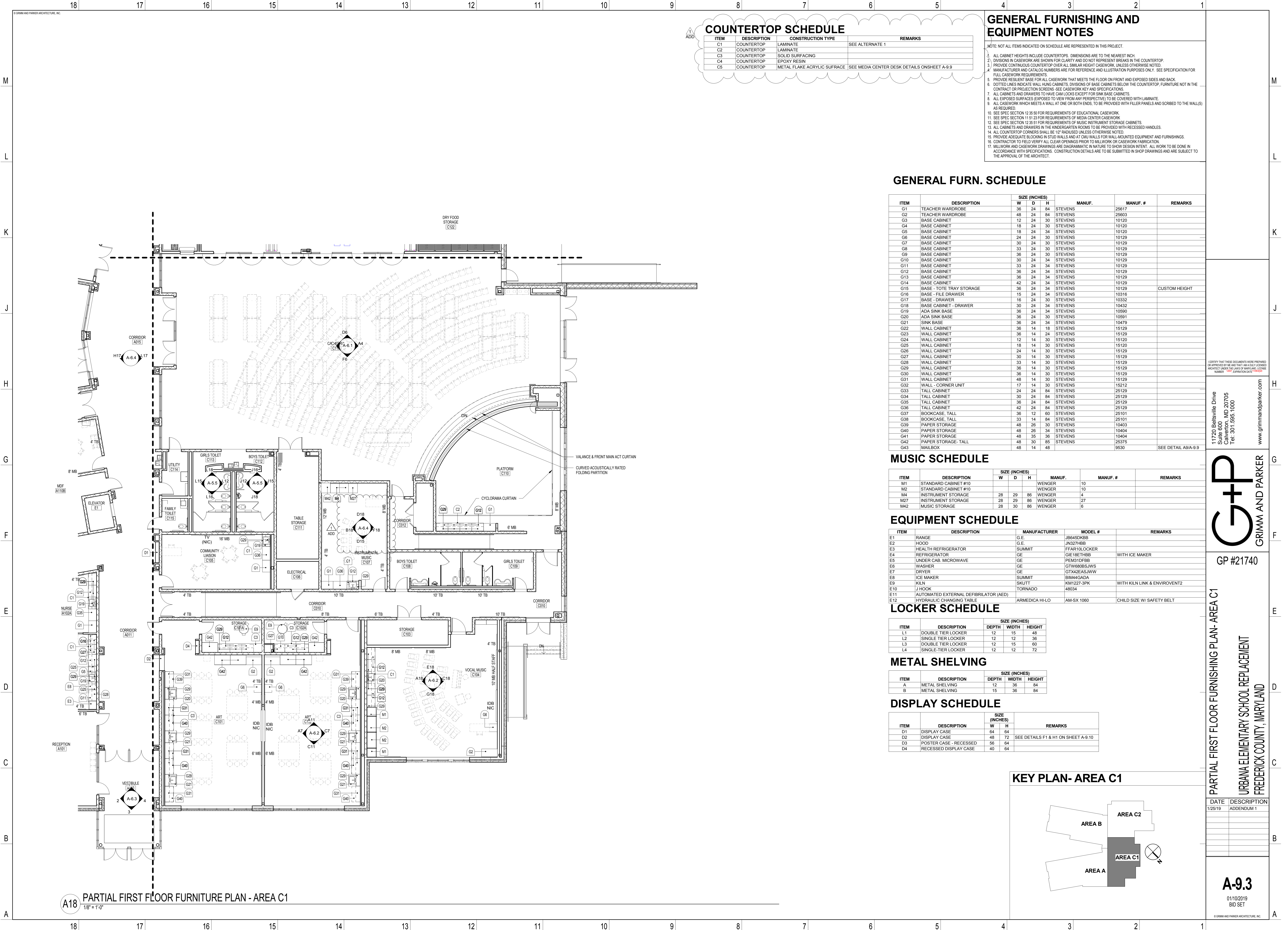


DATE	DESCRIPTION
1/25/19	ADDENDUM 1

A-7.1

01/10/2019
BID SET

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COUNTERTOP SCHEDULE

ITEM	DESCRIPTION	CONSTRUCTION TYPE	REMARKS
C1	COUNTERTOP	LAMINATE	SEE ALTERNATE 1
C2	COUNTERTOP	LAMINATE	
C3	COUNTERTOP	SOLID SURFACING	
C4	COUNTERTOP	EPOXY RESIN	
C5	COUNTERTOP	METAL FLAKE ACRYLIC SURFACE	SEE MEDIA CENTER DESK DETAILS ONSHEET A-9.9

GENERAL FURNISHING AND EQUIPMENT NOTES

- NOTE: NOT ALL ITEMS INDICATED ON SCHEDULE ARE REPRESENTED IN THIS PROJECT.
- ALL CABINET HEIGHTS INCLUDE COUNTERTOPS. DIMENSIONS ARE TO THE NEAREST INCH.
 - DIVISIONS IN CASEWORK ARE SHOWN FOR CLARITY AND DO NOT REPRESENT BREAKS IN THE COUNTERTOP.
 - PROVIDE CONTINUOUS COUNTERTOP OVER ALL SIMILAR HEIGHT CASEWORK, UNLESS OTHERWISE NOTED.
 - MANUFACTURER AND CATALOG NUMBERS ARE FOR REFERENCE AND ILLUSTRATION PURPOSES ONLY. SEE SPECIFICATION FOR FULL CASEWORK REQUIREMENTS.
 - PROVIDE RESILIENT BASE FOR ALL CASEWORK THAT MEETS THE FLOOR ON FRONT AND EXPOSED SIDES AND BACK.
 - DOTTED LINES INDICATE WALL HUNG CABINETS. DIVISIONS OF BASE CABINETS BELOW THE COUNTERTOP, FURNITURE NOT IN THE CONTRACT OR PROJECTION SCREENS. SEE CASEWORK KEY AND SPECIFICATIONS.
 - ALL CABINETS AND DRAWERS TO HAVE CAM LOCKS EXCEPT FOR SINK BASE CABINETS.
 - ALL EXPOSED SURFACES (EXPOSED TO VIEW FROM ANY PERSPECTIVE) TO BE COVERED WITH LAMINATE.
 - ALL CASEWORK WHICH MEETS A WALL AT ONE OR BOTH ENDS, TO BE PROVIDED WITH FILLER PANELS AND SCRIBED TO THE WALL(S) AS REQUIRED.
 - SEE SPEC SECTION 12.35.50 FOR REQUIREMENTS OF EDUCATIONAL CASEWORK.
 - SEE SPEC SECTION 11.81.23 FOR REQUIREMENTS OF MEDIA CENTER CASEWORK.
 - SEE SPEC SECTION 12.35.51 FOR REQUIREMENTS OF MUSIC INSTRUMENT STORAGE CABINETS.
 - ALL CABINETS AND DRAWERS IN THE KINDERGARTEN ROOMS TO BE PROVIDED WITH RECESSED HANDLES.
 - ALL COUNTERTOP CORNERS SHALL BE 1/2" RADIUS UNLESS OTHERWISE NOTED.
 - PROVIDE ADEQUATE BLOCKING IN STUD WALLS AND AT CMU WALLS FOR WALL MOUNTED EQUIPMENT AND FURNISHINGS.
 - CONTRACTOR TO FIELD VERIFY ALL CLEAR OPENINGS PRIOR TO MILLWORK OR CASEWORK FABRICATION.
 - MILLWORK AND CASEWORK DRAWINGS ARE DIAGRAMATIC IN NATURE TO SHOW DESIGN INTENT. ALL WORK TO BE DONE IN ACCORDANCE WITH SPECIFICATIONS. CONSTRUCTION DETAILS ARE TO BE SUBMITTED IN SHOP DRAWINGS AND ARE SUBJECT TO THE APPROVAL OF THE ARCHITECT.

GENERAL FURN. SCHEDULE

ITEM	DESCRIPTION	SIZE (INCHES)			MANUF.	MANUF. #	REMARKS
		W	D	H			
G1	TEACHER WARDROBE	36	24	84	STEVENS	25617	
G2	TEACHER WARDROBE	48	24	84	STEVENS	25603	
G3	BASE CABINET	12	24	30	STEVENS	10120	
G4	BASE CABINET	18	24	30	STEVENS	10120	
G5	BASE CABINET	18	24	34	STEVENS	10120	
G6	BASE CABINET	24	24	30	STEVENS	10129	
G7	BASE CABINET	30	24	30	STEVENS	10129	
G8	BASE CABINET	33	24	30	STEVENS	10129	
G9	BASE CABINET	36	24	30	STEVENS	10129	
G10	BASE CABINET	30	24	34	STEVENS	10129	
G11	BASE CABINET	33	24	34	STEVENS	10129	
G12	BASE CABINET	36	24	34	STEVENS	10129	
G13	BASE CABINET	36	24	34	STEVENS	10129	
G14	BASE CABINET	42	24	34	STEVENS	10129	
G15	BASE - TOTE TRAY STORAGE	36	24	34	STEVENS	10129	CUSTOM HEIGHT
G16	BASE - FILE DRAWER	15	24	34	STEVENS	10316	
G17	BASE - DRAWER	16	24	30	STEVENS	10332	
G18	BASE CABINET - DRAWER	30	24	34	STEVENS	10432	
G19	ADA SINK BASE	36	24	34	STEVENS	10590	
G20	ADA SINK BASE	36	24	30	STEVENS	10591	
G21	SINK BASE	36	24	34	STEVENS	10479	
G22	WALL CABINET	36	14	18	STEVENS	15129	
G23	WALL CABINET	36	14	24	STEVENS	15129	
G24	WALL CABINET	12	14	30	STEVENS	15120	
G25	WALL CABINET	18	14	30	STEVENS	15120	
G26	WALL CABINET	24	14	30	STEVENS	15129	
G27	WALL CABINET	30	14	30	STEVENS	15129	
G28	WALL CABINET	33	14	30	STEVENS	15129	
G29	WALL CABINET	36	14	30	STEVENS	15129	
G30	WALL CABINET	36	14	30	STEVENS	15129	
G31	WALL CABINET	48	14	30	STEVENS	15129	
G32	WALL - CORNER UNIT	17	14	30	STEVENS	15212	
G33	TALL CABINET	24	24	84	STEVENS	25129	
G34	TALL CABINET	30	24	84	STEVENS	25129	
G35	TALL CABINET	36	24	84	STEVENS	25129	
G36	TALL CABINET	42	24	84	STEVENS	25129	
G37	BOOKCASE, TALL	36	12	60	STEVENS	25101	
G38	BOOKCASE, TALL	33	14	84	STEVENS	25101	
G39	PAPER STORAGE	48	26	30	STEVENS	10403	
G40	PAPER STORAGE	48	26	34	STEVENS	10404	
G41	PAPER STORAGE	48	36	30	STEVENS	10404	
G42	PAPER STORAGE- TALL	48	30	85	STEVENS	25375	
G43	MAILBOX	48	14	48		9530	SEE DETAIL A9/A-9.9

MUSIC SCHEDULE

ITEM	DESCRIPTION	SIZE (INCHES)			MANUF.	MANUF. #	REMARKS
		W	D	H			
M1	STANDARD CABINET #10				WENGER	10	
M2	STANDARD CABINET #10				WENGER	10	
M4	INSTRUMENT STORAGE	28	29	86	WENGER	4	
M27	INSTRUMENT STORAGE	28	29	86	WENGER	27	
M42	MUSIC STORAGE	28	30	86	WENGER	6	

EQUIPMENT SCHEDULE

ITEM	DESCRIPTION	MANUFACTURER	MODEL #	REMARKS
E1	RANGE	G.E.	JB64SDHBB	
E2	HOOD	G.E.	JN327HBB	
E3	HEALTH REFRIGERATOR	SUMMIT	FFAR10LOCKER	
E4	REFRIGERATOR	GE	GIE18ETHBB	WITH ICE MAKER
E5	UNDER CAB. MICROWAVE	GE	PEM310FBB	
E6	WASHER	GE	GTY160BBSJWS	
E7	DRYER	GE	GTX42EASJWW	
E8	ICE MAKER	SUMMIT	BIM44GADA	
E9	KILN	SKUTT	KM1227-3PK	WITH KILN LINK & ENVIROVENT2
E10	J HOOK	TORNADO	48034	
E11	AUTOMATED EXTERNAL DEFIBRILATOR (AED)			
E12	HYDRAULIC CHANGING TABLE	ARMEDICA HI-LO	AM-SX 1060	CHILD SIZE W/ SAFETY BELT

LOCKER SCHEDULE

ITEM	DESCRIPTION	SIZE (INCHES)		
		DEPTH	WIDTH	HEIGHT
L1	DOUBLE TIER LOCKER	12	15	48
L2	SINGLE TIER LOCKER	12	12	36
L3	DOUBLE TIER LOCKER	12	15	60
L4	SINGLE-TIER LOCKER	12	12	72

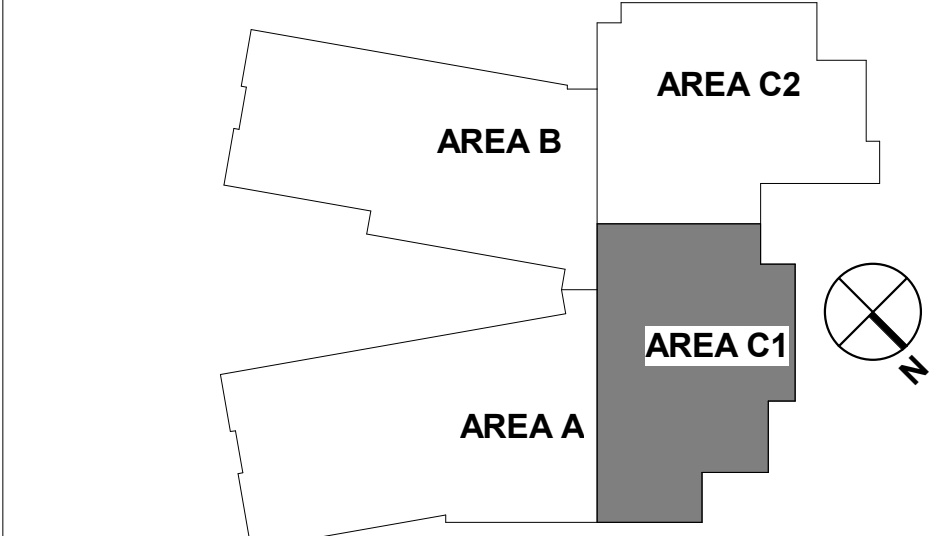
METAL SHELVING

ITEM	DESCRIPTION	SIZE (INCHES)		
		DEPTH	WIDTH	HEIGHT
A	METAL SHELVING	12	36	84
B	METAL SHELVING	15	36	84

DISPLAY SCHEDULE

ITEM	DESCRIPTION	SIZE (INCHES)		REMARKS
		W	H	
D1	DISPLAY CASE	64	84	
D2	DISPLAY CASE	48	72	SEE DETAILS F1 & H1 ON SHEET A-9.10
D3	POSTER CASE - RECESSED	56	64	
D4	RECESSED DISPLAY CASE	40	64	

KEY PLAN- AREA C1



PARTIAL FIRST FLOOR FURNISHING PLAN- AREA C1

URBANA ELEMENTARY SCHOOL REPLACEMENT
FREDERICK COUNTY, MARYLAND

DATE DESCRIPTION

1/25/19 ADDENDUM 1

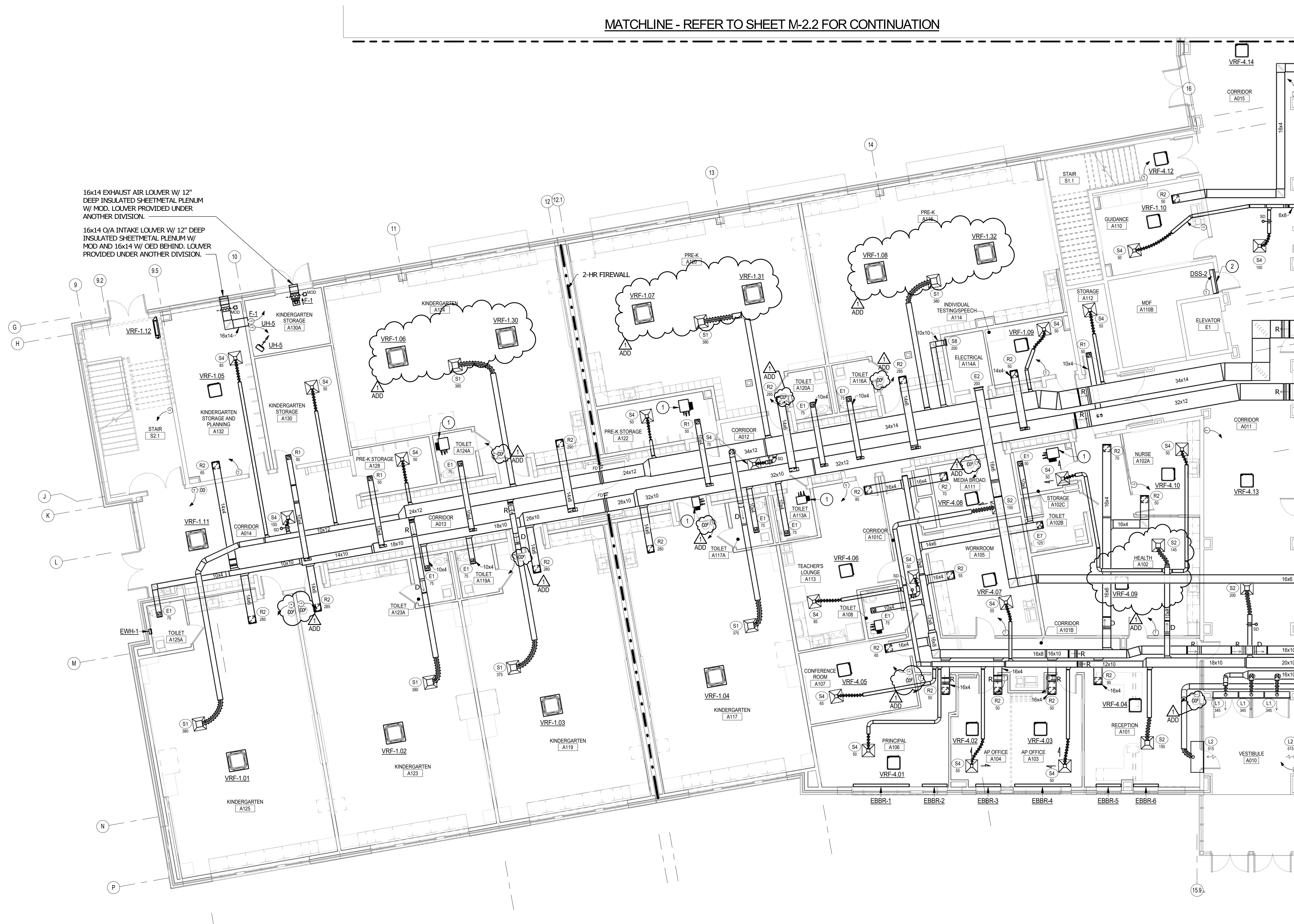
A-9.3

01/10/2019
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- ① BRANCH SELECTOR BOX. FOR ADDITIONAL INFORMATION ON THE BRANCH SELECTOR BOX AND THE UNITS THEY SERVE, REFER TO DRAWING M-7.5.
- ② MOUNT ABOVE DOOR AT 8'-0" A.F.F.

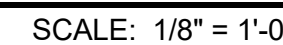
MATCHLINE - REFER TO SHEET M-2.3 FOR CONTINUATION



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



- ① BRANCH SELECTOR BOX. FOR ADDITIONAL INFORMATION ON THE BRANCH SELECTOR BOX AND THE UNITS THEY SERVE, REFER TO DRAWING M-7.5.
- ② PROVIDE DUCTWORK ACCESSORY TO CONVERT CONSOLE UNIT TO SIDEWALL AIR DISCHARGE.
- ③ MOUNT ABOVE DOOR AT 8'-0" A.F.F.



A map of the study area divided into four regions: AREA A (bottom left), AREA B (top left, shaded grey), AREA C1 (bottom right), and AREA C2 (top right). A north arrow is located in the bottom right corner of the map.

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SCALE: 1/4" = 1'-0"



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

1
M-2.3



M-2.3

01/10/2019
BID SET

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- 1 6" DRYER EXHAUST UP TO PENTHOUSE. FOR CONTINUATION, REFER TO DWG. M-3.3
- 2 6" DRYER EXHAUST DN TO DRYER. DUCT SHALL BE INSTALLED BELOW 2x12 R/A. CONTRACTOR SHALL MAKE FINAL CONNECTION.
- 3 16in E/A DN TO DISHWASHER. CONTRACTOR SHALL MAKE FINAL CONNECTION.
- 4 20x14 E/A UP TO PENTHOUSE. FOR CONTINUATION, REFER TO DRAWING M-3.3.
- 5 20x12 Q/A UP TO PENTHOUSE. FOR CONTINUATION, REFER TO DRAWING M-3.3.
- 6 20x30 R/A UP TO A4.1 IN PENTHOUSE. FOR CONTINUATION, REFER TO DRAWING M-3.3.
- 7 24x12 S/A AND 2x12 R/A UP TO DOAS-3 IN PENTHOUSE. FOR CONTINUATION, REFER TO DRAWING M-3.3.
- 8 34x24 R/A UP TO A4.2 IN PENTHOUSE. FOR CONTINUATION, REFER TO DRAWING M-3.3.
- 9 6x12 E/A UP TO E-7 ON ROOF. FOR MORE INFORMATION, REFER TO DRAWING M-2.9.
- 10 12x16 E/A UP TO E-8 ON ROOF. FOR MORE INFORMATION, REFER TO DRAWING M-2.9.
- 11 16x10 S/A UP TO A4.1 IN PENTHOUSE. FOR CONTINUATION, REFER TO DRAWING M-3.3.
- 12 BRANCH SELECTOR BOX. FOR ADDITIONAL INFORMATION ON THE BRANCH SELECTOR BOX AND THE UNITS THEY SERVE, REFER TO DRAWING M-7.5.
- 13 26in M/A DN TO KITCHEN HOOD PLENUM (TYP OF 2). CONTRACTOR SHALL MAKE FINAL CONNECTION TO HOOD.
- 14 17x17 E/A DN TO KITCHEN HOOD PLENUM (TYP OF 2). CONTRACTOR SHALL MAKE FINAL CONNECTION TO HOOD.
- 15 MOUNT IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS.
- 16 4" DUCT EXTENSION TO GRILLE. CONTRACTOR SHALL MAKE FINAL CONNECTION.
- 17 4800 Q.D. CUSTOM STATIONARY DRILL. MINIMUM 60% FREE AREA, BASED ON KEEP LIFT. BALANCE FOR 2470 CFM AND MAINTAIN MC LEVEL 25. REFER TO ARCHITECTURAL DRAWINGS FOR MORE INFORMATION.



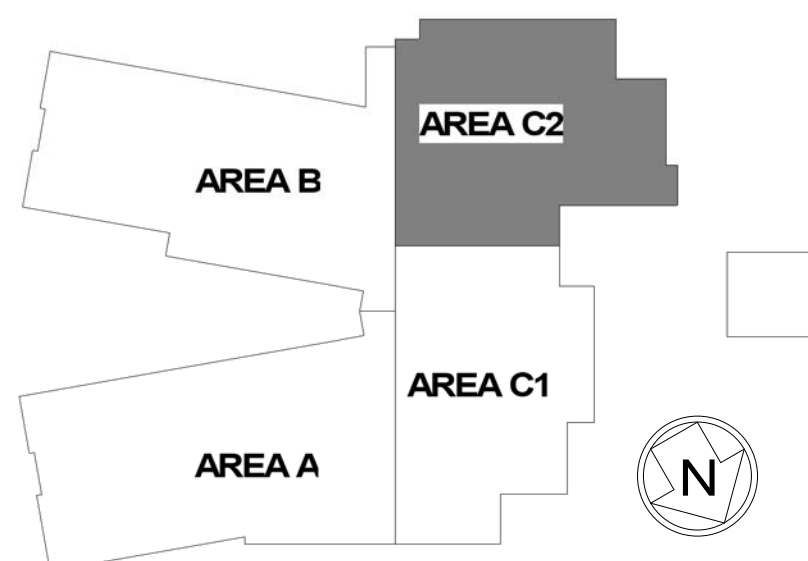
SCALE: 1/8" = 1'-0"



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



KEY PLAN - AREA C2



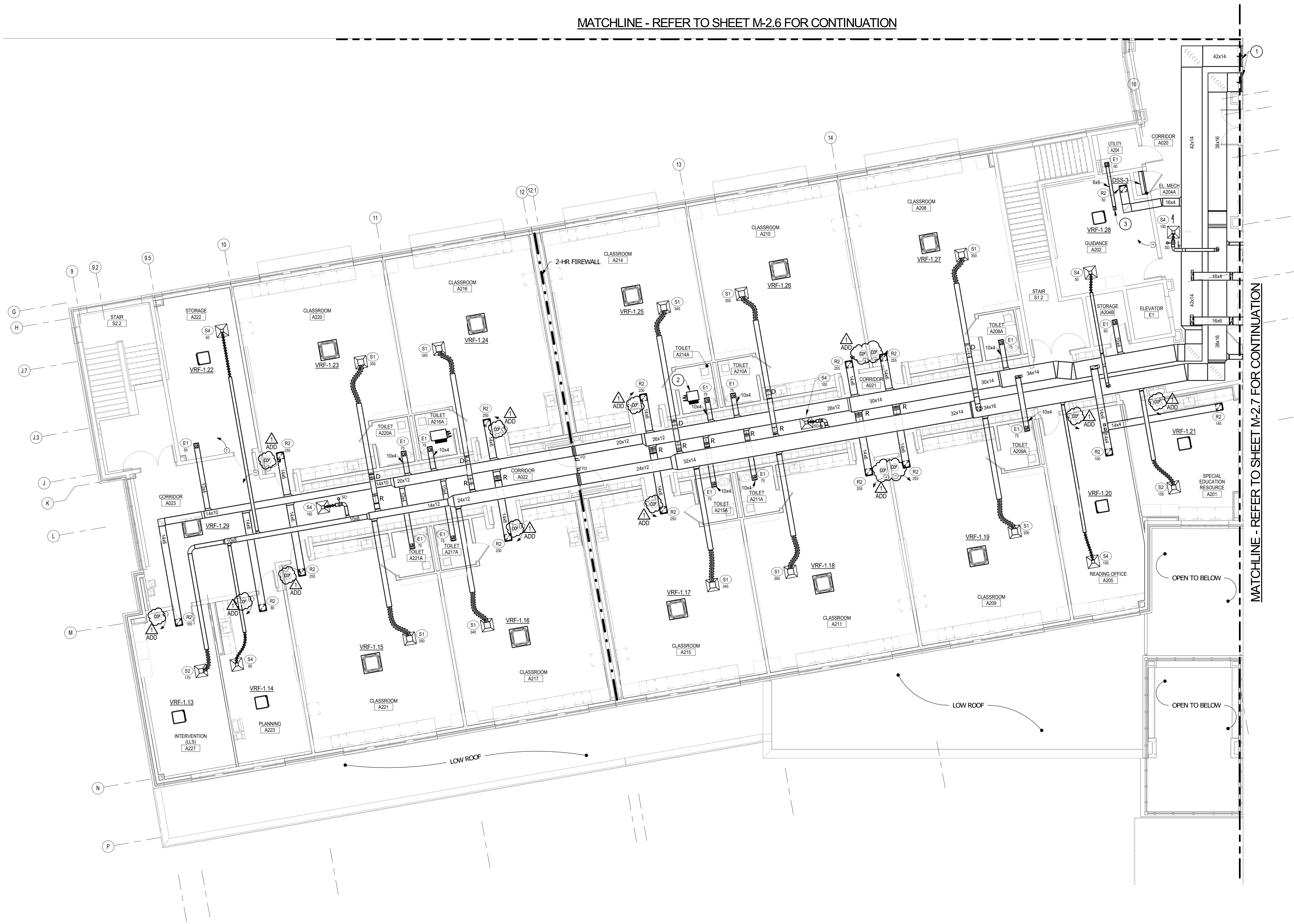
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9	ADDENDUM 1

M-2.4

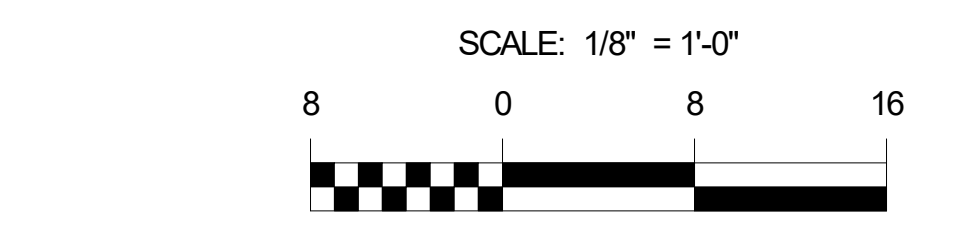
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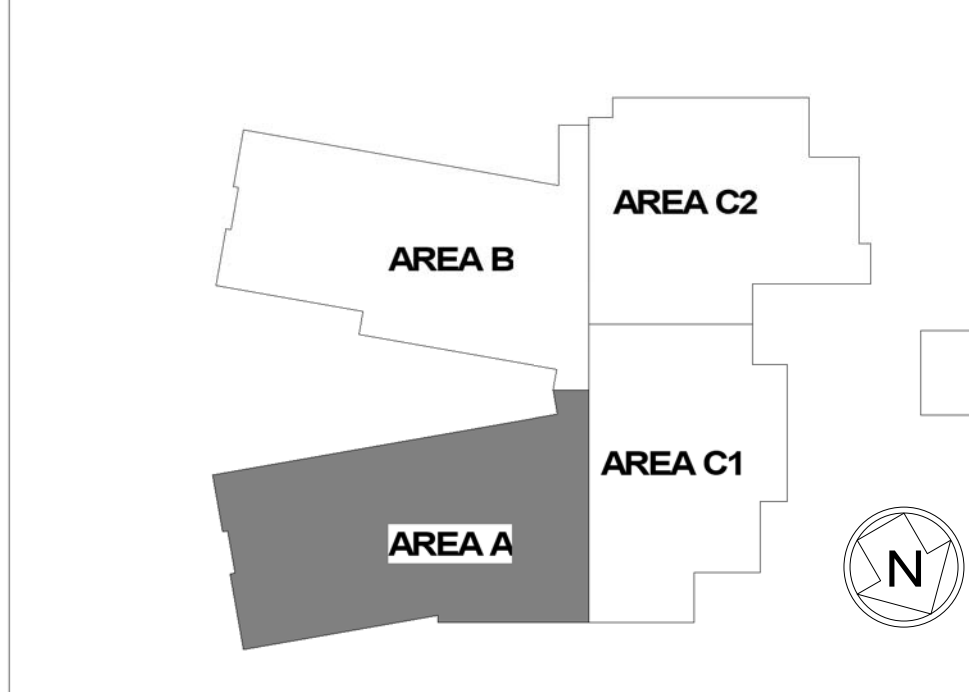
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PARTIAL SECOND FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"



KEY PLAN - AREA A



M-2.5
01/10/2019
BID SET

MATCHLINE - REFER TO SHEET M-2.7 FOR CONTINUATION

MATCHLINE - REFER TO SHEET M-2.6 FOR CONTINUATION

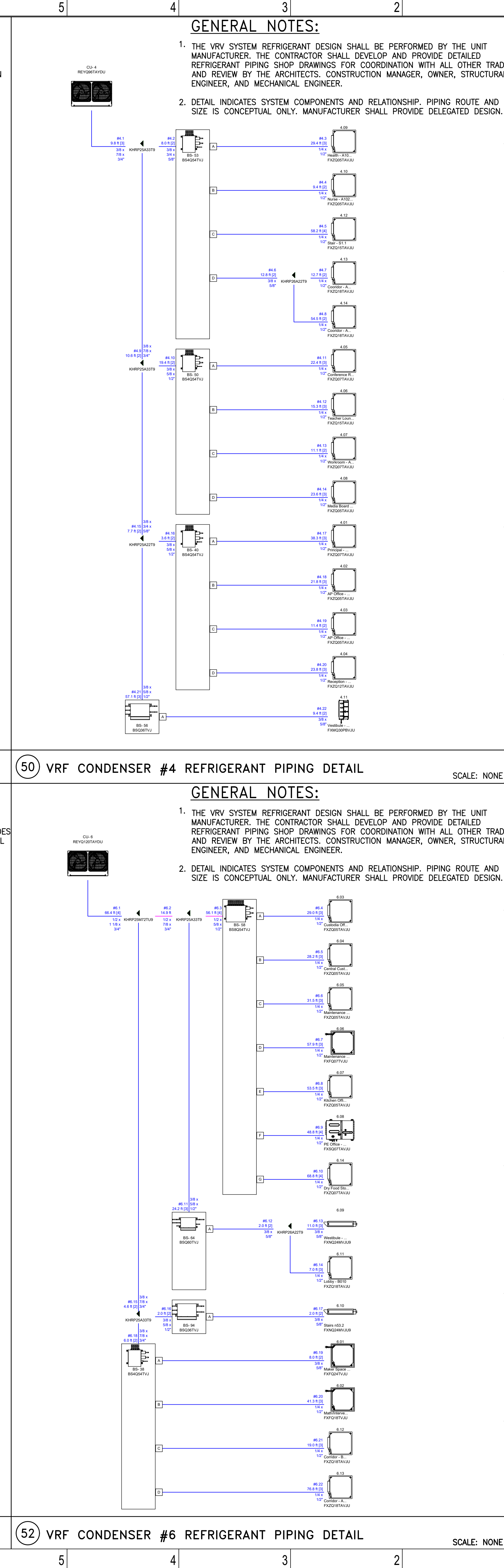
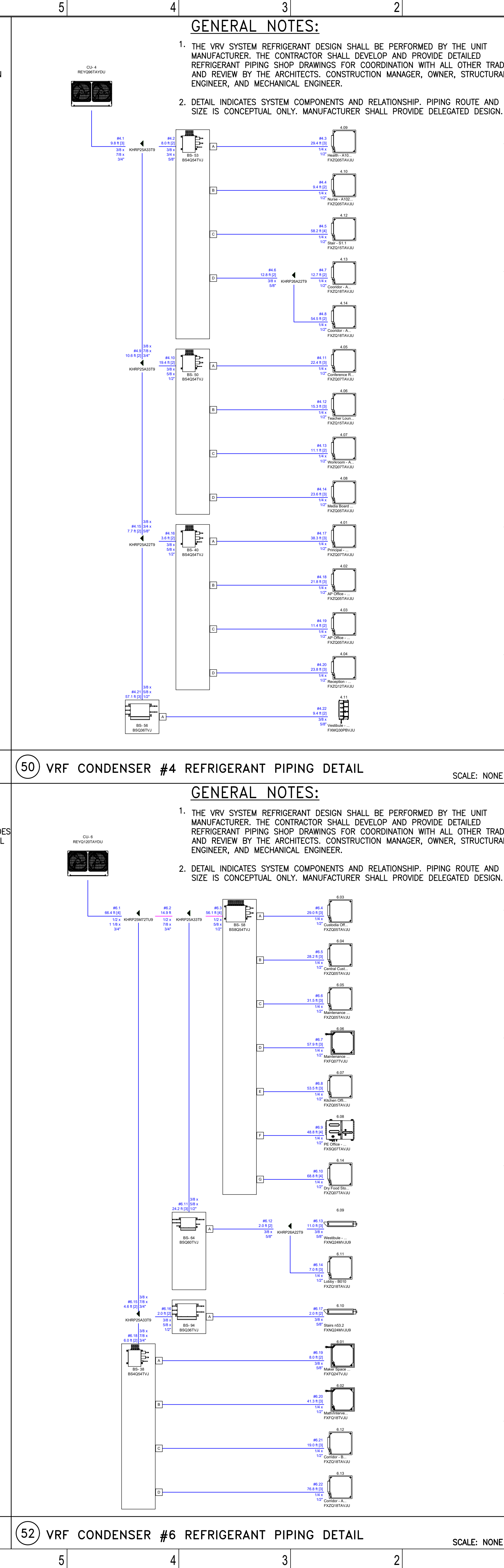
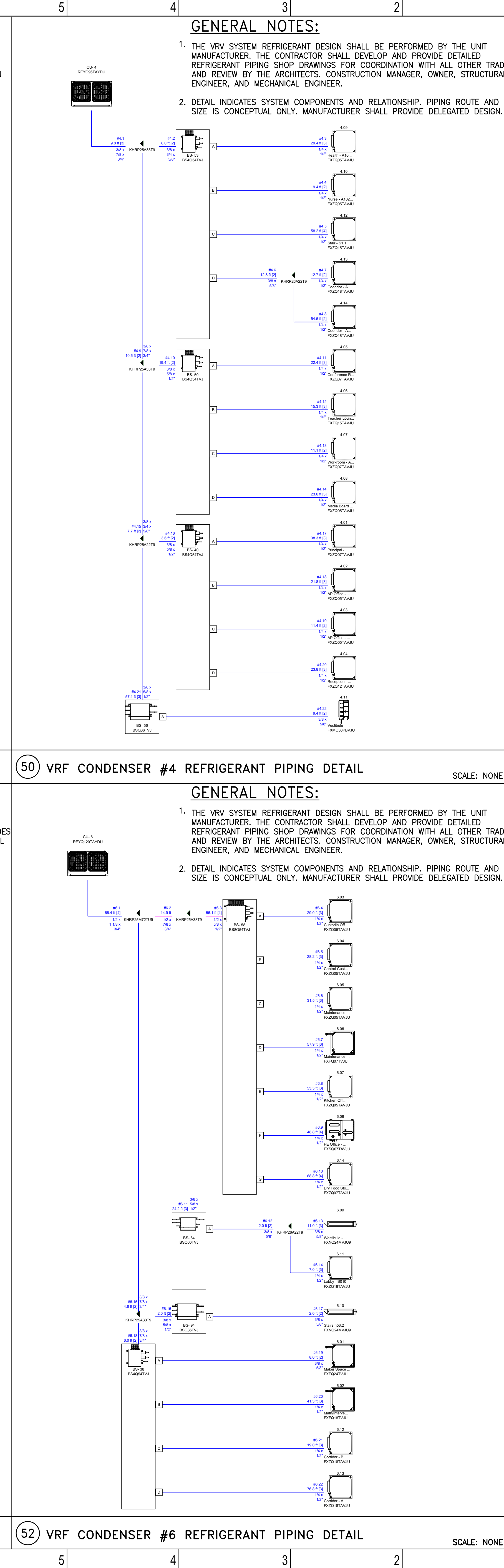
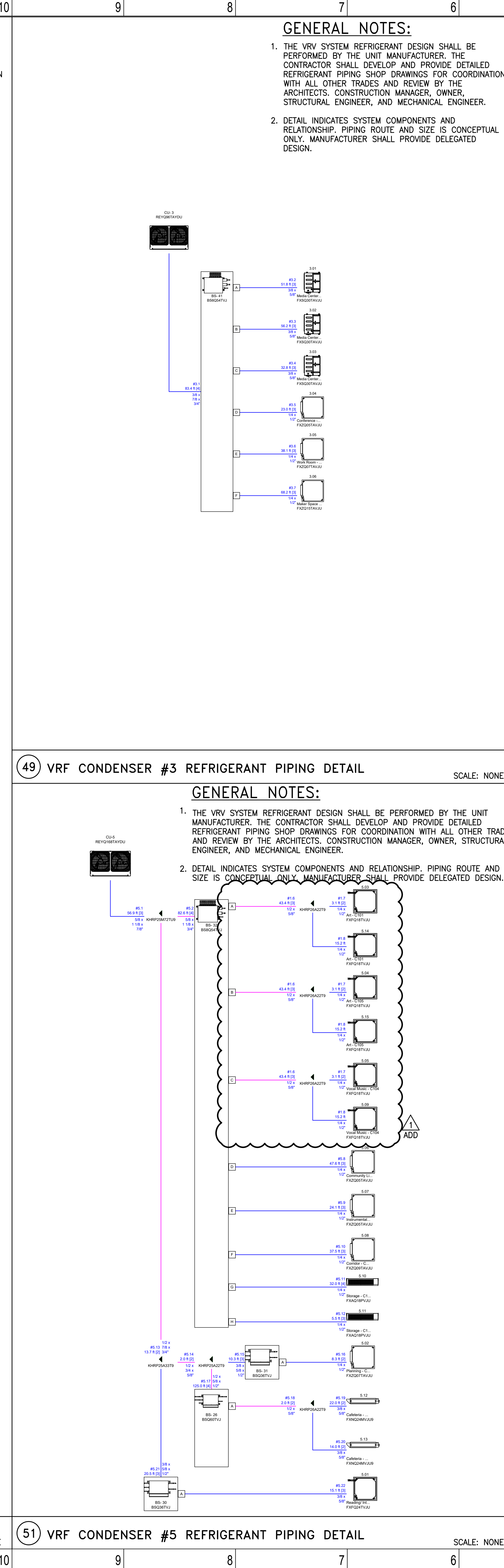
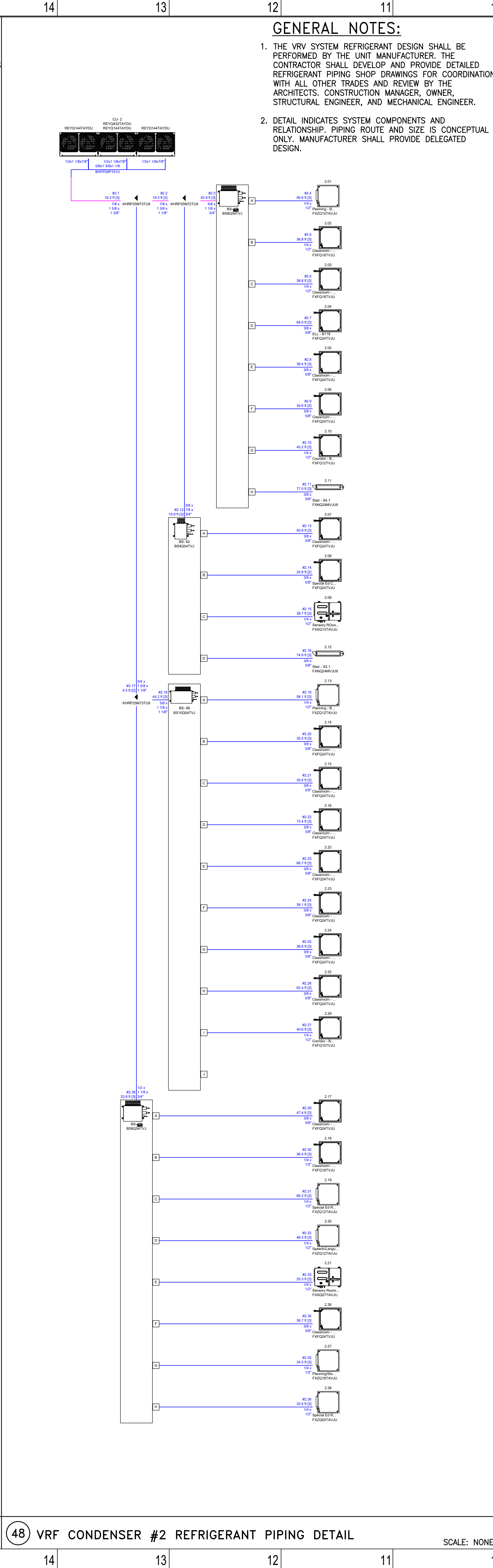
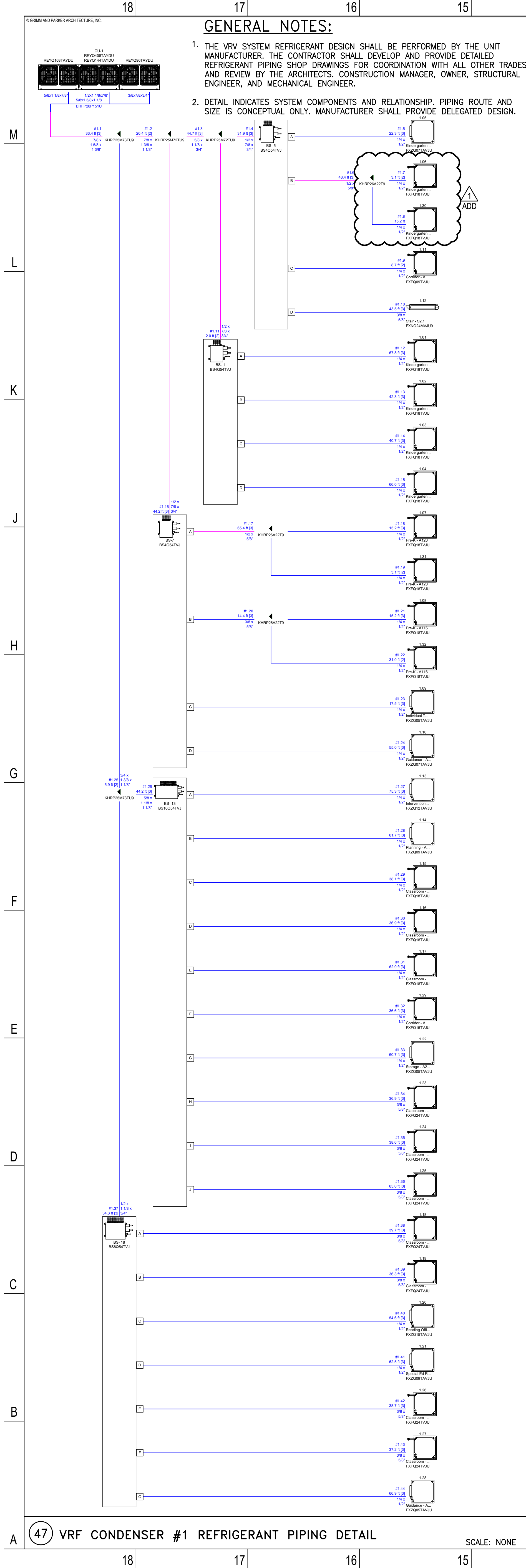
DRAWING NOTES:

- 1 38x16 O/A AND 42x14 R/A TO DOAS-1 IN PENTHOUSE. FOR CONTINUATION, REFER TO DRAWING M-3.2.
- 2 BRANCH SELECTOR BOX. FOR ADDITIONAL INFORMATION ON THE BRANCH SELECTOR BOX AND THE UNITS THEY SERVE, REFER TO DRAWING M-7.5.
- 3 6x6 E/A UP TO F-16 ON ROOF.

DATE	DESCRIPTION
1/25/19	ADDENDUM 1

- ① 42x14 O/A AND 36x16 R/A TO DOAS-2 IN PENTHOUSE. FOR CONTINUATION REFER TO DRAWING M-3.2.
- ② BRANCH SELECTOR BOX. FOR ADDITIONAL INFORMATION ON THE BRANCH SELECTOR BOX AND THE UNITS THEY SERVE, REFER TO DRAWING M-7.5.
- ③ 10x4 E/A UP TO F-17 ON ROOF.

TRIMM AND PARKER ARCHITECTURE, INC.



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PROFESSIONAL CERTIFICATION
I HEREBY CERTIFY THAT THIS DOCUMENT AND THE PROJECTS AND SERVICES DESCRIBED HEREIN WERE PREPARED BY ME OR UNDER MY CLOSE PERSONAL SUPERVISION AND THAT I AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF MARYLAND. (DATE: 8/15/2019)

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GRIMM AND PARKER

GP #21740

MECHANICAL DETAILS

URBANA ELEMENTARY SCHOOL REPLACEMENT
FREDERICK COUNTY, MARYLAND

DATE	DESCRIPTION
1/25/19	ADDENDUM 1

M-7.5

01/10/2019
BID SET

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AUTOMATIC CONTROLS GENERAL NOTES

1. THIS DRAWING IS APPLICABLE TO ALL AUTOMATIC CONTROL DRAWINGS.
2. MASTER INPUT/OUTPUT SUMMARY APPLIES TO ALL CONTROL DIAGRAMS AND SEQUENCES OF OPERATION. IF A COMPONENT IS DESCRIBED IN THE CONTROL SEQUENCE AND/OR INDICATED IN THE CONTROL DIAGRAM BUT NOT LISTED IN THE I/O SUMMARY THE ATC CONTRACTOR SHALL PROVIDE THE POINT.
3. ALL CONTROL POINTS SHALL BE ADJUSTABLE.
4. COORDINATE ALL CONTROL WORK WITH MANUFACTURER OF PACKAGED EQUIPMENT AND PROVIDE ALL NECESSARY CONTROL INTERFACES SUCH AS CARDS, BRIDGES, INTERLOCKS, RELAYS, ETC. NECESSARY TO FULLY AUTOMATE THE SYSTEM AND PROVIDE FULL POINT AND ALARM ACCESS TO/FROM MANUFACTURER'S CONTROLS AND EQUIPMENT WITH THE BAS.
5. EXCEPT AS OTHERWISE SHOWN, LOCATE TOP OF ALL ROOM THERMOSTATS OR SENSORS 4'-0" ABOVE FINISHED FLOOR EVEN WITH THE TOP OF ROOM LIGHT SWITCH. NOTIFY ENGINEER OF ANY ROOMS WHERE THE ABOVE LOCATION CANNOT BE MAINTAINED OR WHERE THERE IS A QUESTION ON LOCATION.
6. ALL SYSTEMS AND COMPONENTS INDICATED ON THE CONTROL DIAGRAM SHALL BE PROVIDED WITH COLOR GRAPHICS.
7. UNLESS OTHERWISE INDICATED CONTROL VALVES AND DAMPERS ARE MODULATING TYPE.
8. COORDINATE WITH THE KITCHEN EQUIPMENT MANUFACTURER FOR TEMPERATURE AND ALARM CONTACTS FOR FREEZERS AND REFRIGERATORS. ATC CONTRACTOR SHALL INTEGRATE INTO THE BAS.
9. COORDINATE WITH ELECTRICAL CONTRACTOR FOR CONTACTS AND INTEGRATION REQUIRED FOR SITE LIGHT, METERS, EMERGENCY GENERATOR AND INCOMING ELECTRICAL SERVICE AND INTEGRATE THEM INTO THE BAS.
10. COORDINATE WITH MECHANICAL CONTRACTOR TO INTEGRATE ALL AVAILABLE POINTS FROM THE VRF CONTROL SYSTEM INTO THE BAS.

AUTOMATIC CONTROLS ABBREVIATIONS

ABBREV	DEFINITION
ACH	AIR COOLED CHILLER
ACU	AIR CONDITIONING UNIT
ADJ	ADJUSTABLE
AHU	AIR HANDLING UNIT
AMS	AIR FLOW MEASURING STATION
AQUA	AQUASTAT
ASHP	AIR SOURCE HEAT PUMP
ATC	AUTOMATIC TEMPERATURE CONTROL
AUTO	AUTOMATIC
BAS	BUILDING AUTOMATION SYSTEM
BBR	BASEBOARD RADIATION
BTU	BRITISH THERMAL UNIT
CC	COOLING COIL
CD	COMBINATION SMOKE DAMPER
CFM	CUBIC FEET PER MINUTE
CH	CHILLER
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CO	CARBON MONOXIDE
CO ₂	CARBON DIOXIDE
CS	CURRENT SENSOR
CT	COOLING TOWER
CUH	CABINET UNIT HEATER
CW	COLD WATER
D	DAMPER
DCV	DEMAND CONTROL VENTILATION
DD	DUCT SMOKE DETECTOR
DDC	DIRECT DIGITAL CONTROLS
DEHUM	DEHUMIDIFICATION
DISCH	DISCHARGE
DOAS	DEDICATED OUTDOOR AIR SYSTEM
DP	DIFFERENTIAL PRESSURE
DPDT	DOUBLE POLE/DOUBLE THROW
DPS	DEWPOINT SENSOR
DSHP	DUCTLESS SPLIT HEAT PUMP
DSS	DUCTLESS SPLIT SYSTEM
DTC	DUAL TEMPERATURE COIL
DTR	DUAL TEMPERATURE WATER RETURN
DTS	DUAL TEMPERATURE WATER SUPPLY
DX	DIRECT EXPANSION
E	ELECTRIC
EA	EACH
E/A	EXHAUST AIR
EAF	EXHAUST AIR FAN
ECH	ELECTRIC CEILING HEATER
ECM	ELECTRONICALLY COMMUTATED MOTOR
ECUH	ELECTRIC CABINET UNIT HEATER
EDHC	ELECTRIC DUCT HEATING COIL
ELEC	ELECTRIC/ELECTRICAL
EMS	ENERGY MANAGEMENT SYSTEM
E/P	ELECTRIC TO PNEUMATIC
ESS	EMERGENCY SHUTDOWN SWITCH
F	FAHRENHEIT/FAN
FCU	FAN COIL UNIT
FM	FLOW METER
FS	FLOW SWITCH
FZ	FREEZESTAT
G	GAS
GM	GAS METER
GPM	GALLONS PER MINUTE
GTHR	GEO THERMAL HEAT PUMP RETURN
GTHS	GEO THERMAL HEAT PUMP SUPPLY
HC	HEATING COIL
HGR	HOT GAS REHEAT
H-O-A	HAND-OFF-AUTOMATIC SWITCH
HP	HORSEPOWER
HPR	HEAT PUMP RETURN

HPS	HEAT PUMP SUPPLY/HIGH PRESSURE SENSOR
HR	HOURLY
HRC	HEATING WATER RETURN
HRU	HEAT RECOVERY CHILLER
HRU	HEAT RECOVERY UNIT
HS	HEATING WATER SUPPLY
HSP	HIGH STATIC PRESSURE
HW	HOT WATER
HX	HEAT EXCHANGER
I/O	INPUT/OUTPUT
KMUA	KITCHEN MAKEUP AIR UNIT
LS	LIQUID SENSOR
LSP	LOW STATIC PRESSURE
LWC	LOW WATER CUTOFF
M	METER
MAU	MAKEUP AIR UNIT
MAX	MAXIMUM
MECH	MECHANICAL
MIN	MINIMUM
MISC	MISCELLANEOUS
MOD	MOTOR OPERATED DAMPER
MPC	MICROPROCESSOR CONTROLLER
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NO	NUMBER
NO ₂	NITROUS DIOXIDE
O/A	OUTSIDE AIR
OAT	OUTSIDE AIR TEMPERATURE
P	PUMP
PCHR	PRIMARY CHILLED WATER RETURN
PCHS	PRIMARY CHILLED WATER SUPPLY
PHC	PREHEAT COIL
PHR	PRIMARY HEATING WATER RETURN
PHS	PRIMARY HEATING WATER SUPPLY
PIC	PRESSURE INDEPENDENT CONTROL
PPM	PARTS PER MILLION
PS	PRESSURE SWITCH
R/A	RETURN AIR
RAF	RETURN AIR FAN
RH	RELATIVE HUMIDITY
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
RS	ROTATION SENSOR
RTU	ROOFTOP UNIT
S	SWITCH/SMOKE
SAF	SUPPLY AIR FAN
SCHED	SCHEDULED
SOHR	SECONDARY CHILLED WATER RETURN
SCHS	SECONDARY CHILLED WATER SUPPLY
SCR	SILICON CONTROLLED RECTIFIER
SHR	SECONDARY HEATING WATER RETURN
SHC	SECONDARY HEATING WATER SUPPLY
SMD	SMOKE DAMPER
SP	STATIC PRESSURE
SPC	SUCTION PRESSURE SENSOR
SW	SWITCH
T	TEMPERATURE
TS	TEMPERATURE SENSOR
TYP	TYPICAL
UH	UNIT HEATER
V	VOLTS
VAV	VARIABLE AIR VOLUME
VRF	VARIABLE REFRIGERANT FLOW
VRV	VARIABLE REFRIGERANT VOLUME
VSD	VARIABLE SPEED DRIVE
WC	WATER COLUMN
WM	WATER METER
WS	WEATHER STATION
WSHP	WATER SOURCE HEAT PUMP

AUTOMATIC CONTROLS LEGEND

	SYSTEM BTU METER
	CARBON MONOXIDE SENSOR
	SPACE CARBON DIOXIDE SENSOR
	CURRENT SENSOR
	DIRECT DIGITAL CONTROLLER
	GLOBAL AIR DEW POINT SENSOR
	AUTOMATIC DOOR SWITCH
	EMERGENCY SHUTDOWN SWITCH
	ENERGY MANAGEMENT SYSTEM
	HAND-OFF-AUTOMATIC SWITCH
	WALL MOUNTED MICROPROCESSOR CONTROLLER
	GLOBAL OUTDOOR AIR TEMPERATURE SENSOR
	SPACE RELATIVE HUMIDITY SENSOR
	ROTATION SENSOR
	SWITCH
	SPACE TEMPERATURE SENSOR

	SYSTEM LOAD
	DIFFERENTIAL PRESSURE CONTROLLER (PIPING)
	GAS METER
	WATER METER
	FLOW METER
	TEMPERATURE SENSOR (WATER)
	FLOW SWITCH
	TWO WAY/2-WAY CONTROL VALVE
	THREE WAY/3-WAY CONTROL VALVE
	AQUASTAT
	COMBINATION BALANCE/SHUTOFF VALVE
	ELECTRIC METER
	AIR FLOW MEASURING STATION
	MOTOR OPERATED DAMPER WITH OR WITHOUT END SWITCH
	BACKDRAFT DAMPER
	FILTER GAUGE
	FAN OR PUMP
	FAN WITH INLET AIR FLOW MEASURING STATION (PROBE TYPE)
	CARBON DIOXIDE SENSOR
	DUCT DETECTOR
	DEW POINT SENSOR
	FREEZESTAT WITH CAPILLARY TUBE
	HIGH PRESSURE SENSOR
	HIGH STATIC PRESSURE SENSOR
	LOW STATIC PRESSURE SENSOR
	PRESSURE SWITCH
	RELATIVE HUMIDITY SENSOR
	TEMPERATURE SENSOR
	TEMPERATURE SENSOR WITH CAPILLARY TUBE

MASTER INPUT/OUTPUT SUMMARY

DESCRIPTION	INPUT				OUTPUTS				3-POINT FLOATING	ALARMS				FEATURES							
	ANALOG	BINARY	ANALOG	BINARY	ANALOG	BINARY	3-POINT FLOATING	ALARMS		FEATURES	ANALOG	BINARY	3-POINT FLOATING	ANALOG	BINARY	3-POINT FLOATING	ANALOG	BINARY	3-POINT FLOATING	ANALOG	BINARY
SPACE TEMPERATURE																					
DUCT/COIL/UNIT TEMPERATURE																					
WATER TEMPERATURE																					
O.A. TEMPERATURE (GLOBAL)																					
CONCRETE TEMPERATURE																					
DEWPOINT/HUMIDITY/ENTHALPY																					
REFRIGERANT LIQUID PRESSURE																					
REFRIGERANT VAPOR PRESSURE																					
STEAM PRESSURE																					
CARBON DIOXIDE																					
NITROGEN DIOXIDE																					
FLOW (TOTALIZED)																					
WATER FLOW (BTU)																					
POSITION INDICATION																					
KW (TOTALIZED)																					
FLOW SWITCH																					
STATIC PRESSURE																					
DIFFERENTIAL PRESSURE																					
CURRENT/ROTATION SENSOR																					
END SWITCH																					
SWITCH POSITION																					
LOW TEMPERATURE CUTOFF																					
LOW WATER CUTOFF																					
STATUS																					
VARIABLE SPEED																					
MODULATING ACTUATOR																					
MODULATING VALVE																					
E/P TRANSDUCER																					
SUMMER-WINTER																					
CONTROL RELAY																					
SOLENOID																					
2-POSITION VALVE																					
2-POSITION VALVE (OCCUPIED/UNOCCUPIED)																					
ENABLE/DISABLE																					
MERCURY RELAY																					
FEED/BLEED SV																					
HIGH LIMIT																					
LOW LIMIT																					
RUN TIME																					
MAINTENANCE MESSAGE																					
TRouble MESSAGE																					
SECURITY SYSTEM																					
SCHEDULED START/STOP																					
TEMPERATURE SETBACK/SETUP																					
OPTIMIZED START/STOP																					
WATER FLOW																					
DUTY CYCLE																					
VENTILATION DELAY																					
ECONOMIZER CYCLE																					
RESET BASED ON OA TEMP																					
VAV CONTROL																					
REMOTE READ/RESET																					
TEMPERATURE GRAPHICS																					
COLOR GRAPHICS																					
POINT LOG/OUT																					
TREND LOG																					
LEAD/LAG																					

AIR SIDE

FAN (SUPPLY, RETURN, RELIEF, EXHAUST, ETC.)

HEAT(ENERGY) WHEEL

REFRIGERATION SYSTEM

GAS FURNACE

FILTER GAUGE

SUPPLY AIR

DIRECT EXPANSION (DX) COIL

AIR FLOW MEASURING STATION (DUCT AND FAN INLET)

VARIABLE SPEED DRIVE

OUTSIDE AIR TEMPERATURE SENSOR (GLOBAL)

AIR TEMPERATURE SENSOR(SUPPLY, RETURN, ETC.)

OUTSIDE AIR DEWPOINT TEMPERATURE SENSOR (GLOBAL)

DEWPOINT TEMPERATURE SENSOR (RETURN, RELIEF, ETC.)

OUTSIDE AIR CARBON DIOXIDE SENSOR (GLOBAL)

CARBON DIOXIDE SENSOR (SPACE, RETURN, ETC.)

CARBON MONOXIDE SENSOR

OUTSIDE AIR RELATIVE HUMIDITY SENSOR (GLOBAL)

RELATIVE HUMIDITY SENSOR (SPACE, RETURN, ETC.)

MIXED AIR TEMPERATURE SENSOR

DISCHARGE TEMPERATURE SENSOR (UNIT, COIL, ETC.)

SLAB TEMPERATURE SENSOR

LOW LIMIT TEMPERATURE SENSOR

FREEZESTAT

MODULATING DAMPER (O/A, R/A, RELIEF, ETC.)

MODULATING DAMPER W/END SWITCH(O/A, R/A, RELIEF, ETC.)

2-POSITION DAMPER (O/A, R/A BYPASS, ETC.)

2-POSITION DAMPER W/END SWITCH(O/A, R/A BYPASS, ETC.)

BACKDRAFT DAMPER (RELIEF, EXHAUST, ETC.)

SMOKE ISOLATION DAMPER W/ END SWITCH

HIGH STATIC PRESSURE SENSOR

LOW STATIC PRESSURE SENSOR

STATIC PRESSURE SENSOR

FLOW SWITCH

OUTSIDE AIR

SPACE TEMPERATURE

SPACE TEMPERATURE W/ HIGH OR LOW CONDITION

WATER SIDE

WATER SYSTEM (HEATING, CHILLED, CONDENSER, ETC)

CHILLER

CHILLER WITH VSD

COOLING TOWER FAN

COOLING TOWER FAN WITH VSD

SUMP SWEEPER

WATER-TO-WATER HEAT PUMP

BOILER

BOILER BURNER

WATER PUMP

VARIABLE SPEED DRIVE

WATER RETURN TEMPERATURE SENSOR

WATER SUPPLY TEMPERATURE SENSOR

HOT GAS REHEAT VALVE

SOLENOID VALVE

TWO WAY, 2-WAY CONTROL VALVE (2-POSITION)

TWO WAY, 2-WAY CONTROL VALVE (MODULATING)

TWO WAY, 2-WAY CONTROL VALVE (ISOLATION)

THREE WAY, 3-WAY CONTROL VALVE

THREE WAY, 3-WAY CONTROL VALVE (SUMMER/WINTER)

GLYCOL FEED PRESSURE SENSOR

GLYCOL FEED SYSTEM

FLOW METER/WATER METER

DIFFERENTIAL PRESSURE SENSOR

DIFFERENTIAL PRESSURE TRANSMITTER (W/RESET)

BTU METER

LIQUID SENSOR

FLOW SWITCH

LIFE SAFETY

EMERGENCY SHUTDOWN SWITCH

DUCT DETECTOR (SMOKE)

REFRIGERANT MONITORING SYSTEM

FACE VELOCITY SENSOR

GARAGE MONITORING SYSTEM

MISCELLANEOUS

HAND-OFF-AUTOMATIC (HOA) SWITCH

HEAT TRACE

REFRIGERANT MONITORING SYSTEM

SWITCH (2HR OVERRIDE, HOOD, ON/OFF, DOOR ETC.)

KITCHEN/FOOD LAB REFRIGERATOR

KITCHEN/FOOD LAB FREEZER

SITE LIGHTS (EACH PANEL)

EMERGENCY GENERATOR

INCOMING ELECTRICAL SERVICE

TRANSFER SWITCH

MECHANICAL AND/OR ELECTRICAL ROOMS

SPACES SERVED BY DUCTLESS SPLIT SYSTEMS

ELEVATOR SUMP PUMP

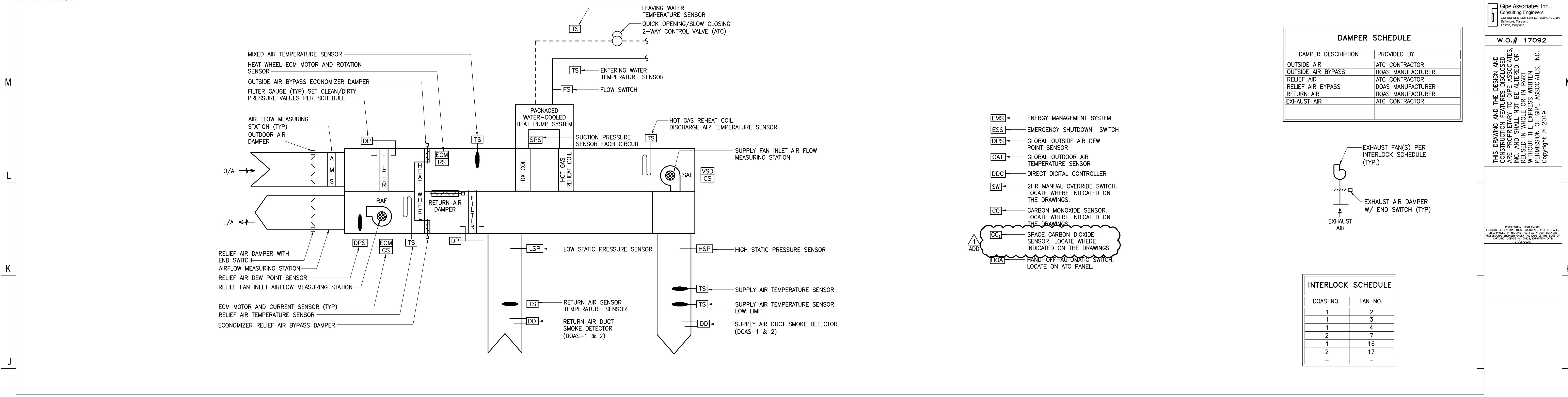
SUMP PUMP

SEWAGE EJECTOR PUMP

DOMESTIC WATER HEATER/HOT WATER GENERATOR

DOMESTIC WATER RECIRCULATION PUMP

VEHICLE CHARGING STATIONS



DEDICATED OUTDOOR AIR SYSTEM (DOAS) CONTROL DIAGRAM (DDC – ELECTRIC/ELECTRONIC ACTUATION)

1. GENERAL:

A. THE DEDICATED OUTSIDE AIR SYSTEM SHALL BE STARTED AND STOPPED THROUGH A SYSTEM ON-OFF-AUTOMATIC (H-O-A) SWITCH. WHEN INDEXED TO "ON" THE SYSTEM SHALL START AND OPERATE UNDER ITS CONTROL SEQUENCE. WHEN INDEXED TO "OFF" THE SYSTEM SHALL STOP. WHEN INDEXED TO THE "AUTOMATIC" POSITION THE SYSTEM SHALL START AND STOP THROUGH THE ENERGY MANAGEMENT SYSTEM (EMS). THE H-O-A SYSTEM SWITCH POSITION SHALL BE MONITORED THROUGH THE EMS.

B. SUPPLY FAN SHALL BE LOCALLY OR REMOTELY STARTED AND STOPPED THROUGH THE EMS BY WAY OF OPTIMUM START/STOP PROGRAM (WITH MANUAL OVERRIDE), BY TIME OF DAY SCHEDULING OR 2HR OVERRIDE SWITCH. WHEN INDEXED TO "START", THE SUPPLY FAN SHALL START. THE RELIEF AIR FAN SHALL START WHEN SYSTEM IS INDEXED TO "OCCUPIED" MODE AND THE RELIEF AIR DAMPER IS PROVIDED OPEN BY DAMPER END SWITCH.

C. RELIEF FAN, AND INTERLOCKED EXHAUST FANS SHALL OPERATE WHEN THE SUPPLY FAN OPERATES UNDER "OCCUPIED" AND BE OFF WHEN THE SUPPLY FAN IS OFF. EXHAUST FAN MOTOR OPERATED DAMPER SHALL BE CLOSED WHENEVER THE EXHAUST FAN IS OFF AND SHALL BE OPEN WHENEVER THE EXHAUST FAN IS ON. EXHAUST FAN SHALL START ONCE END SWITCH IS PROVEN OPEN.

D. WHEN THE SUPPLY FAN IS OFF, THE OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL CLOSE, AND RETURN AIR DAMPER SHALL OPEN, THE RELIEF AIR FAN AND ASSOCIATED EXHAUST FANS SHALL BE OFF, AND THE PACKAGED REFRIGERATION SYSTEM SHALL BE OFF.

E. RELIEF AIR BYPASS DAMPER AND OUTSIDE AIR BYPASS DAMPER SHALL BE CLOSED WHEN HEAT RECOVERY WHEEL IS ROTATING OR WHEN THE SUPPLY FAN IS OFF.

F. SUPPLY FAN, RELIEF FAN, AND EXHAUST FAN(S) SHALL STOP WHEN PRODUCTS OF COMBUSTION ARE SENSED BY THE SUPPLY AIR OR RETURN AIR DUCT SMOKE DETECTORS.

G. SUPPLY FAN, RELIEF FAN, AND EXHAUST FAN(S) SHALL STOP WHEN THE SUPPLY AIR AND/OR RETURN AIR HIGH STATIC PRESSURE SENSOR(S) REACH THEIR RESPECTIVE SETPOINTS (+4 W.C. S/A / -3" W.C. R/A).

H. ALL SAFETIES AND ASSOCIATED CONTROLS SHALL REMAIN ACTIVE WHETHER THE SYSTEM IS LOCALLY OR REMOTELY CONTROLLED AND/OR MANUALLY OVERRIDDEN.

I. LOW LIMIT CONTROL:
WHEN THE SUPPLY AIR TEMPERATURE FALLS BELOW 40°F (ADJUSTABLE) AS SENSED BY THE SUPPLY AIR TEMPERATURE LOW LIMIT SENSOR, THE OUTSIDE AIR DAMPER SHALL CLOSE, RETURN AIR DAMPER SHALL MODULATE FULLY OPEN, RELIEF AIR FAN SHALL STOP, RELIEF AIR DAMPER SHALL CLOSE, AND PACKAGED WATER-COOLED HEAT PUMP SYSTEM SHALL STOP, AND AN ALARM SHALL BE ANNUNCIATED THROUGH THE EMS. THE SYSTEM SHALL RETURN TO NORMAL OPERATION WHEN THE SUPPLY AIR TEMPERATURE IS GREATER THAN 45°F (ADJ.) FOR A MINIMUM OF 30 MINUTES (ADJ.). ON A CONTINUED FALL IN SUPPLY AIR TEMPERATURE TO BELOW 35°F THE SUPPLY FAN SHALL STOP.

J. PROVIDE A REMOTE EMERGENCY SHUT-DOWN SWITCH FOR SYSTEM SHUT-DOWN. REMOTE SWITCH SHALL BE INSTALLED AT A LOCATION APPROVED BY THE FIRE INSPECTOR.

K. ONCE FLOW IS PROVEN BY FLOW SWITCH, UNIT SHALL BE COMMANDED TO RUN PER SEQUENCE OF OPERATION.
2. WARM-UP AND PULL-DOWN (OPTIMUM START/STOP) CONTROL:

A. WARM-UP:
DURING WARM-UP, INITIATED THROUGH OPTIMUM START/STOP PROGRAM, THE SUPPLY FAN SHALL BE ENERGIZED, THE OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL BE CLOSED, THE RETURN AIR DAMPER SHALL OPEN, HEAT WHEEL SHALL BE OFF. THE PACKAGED WATER-COOLED HEAT PUMP SYSTEM SHALL BE ON UNTIL THE RETURN AIR TEMPERATURE RISES TO 70°F. AT THIS POINT THE SYSTEM SHALL OPERATE AS DESCRIBED UNDER THE "UNOCCUPIED HEATING" UNTIL THE SYSTEM ENTERS "OCCUPIED".

B. PULL-DOWN:
DURING PULL-DOWN, INITIATED THROUGH OPTIMUM START/STOP PROGRAM, THE SUPPLY AIR FAN SHALL BE ENERGIZED, THE OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL BE CLOSED, THE RETURN AIR DAMPER SHALL BE OPEN, HEAT WHEEL SHALL BE OFF. THE PACKAGED WATER-COOLED HEAT PUMP SYSTEM SHALL OPERATE AT FULL CAPACITY UNTIL THE RETURN AIR TEMPERATURE FALLS TO 75°F. AT THIS POINT THE SYSTEM SHALL OPERATE AS DESCRIBED UNDER THE "UNOCCUPIED COOLING" UNTIL THE SYSTEM ENTERS "OCCUPIED".

3. OCCUPIED CONTROL (INTEGRAL DRY-BULB ECONOMIZER)

A. DEDICATED OUTSIDE AIR SYSTEM SUPPLY AND RELIEF AIR FANS SHALL BE SOFT STARTED THROUGH THEIR ECM MOTOR.

B. WHEN OUTSIDE AIR IS BELOW 45°F (ADJ.), THE HEAT WHEEL SHALL OPERATE AT FULL SPEED AND ECONOMIZER BYPASS DAMPERS SHALL BE CLOSED AND RETURN AIR DAMPER SHALL BE CLOSED. THE SUPPLY AIR TEMPERATURE SENSOR SHALL MODULATE THE PACKAGED WATER-COOLED HEAT PUMP SYSTEM TO MAINTAIN SUPPLY AIR TEMPERATURE (ADJ.).

C. WHEN THE OUTSIDE AIR IS ABOVE 45°F (ADJ.) AND BELOW 55°F (ADJ.), THE HEAT WHEEL SHALL BE OFF, ECONOMIZER BYPASS DAMPERS SHALL BE OPEN AND RETURN AIR DAMPER SHALL BE CLOSED. THE SUPPLY AIR TEMPERATURE SENSOR SHALL MODULATE THE PACKAGED WATER-COOLED HEAT PUMP SYSTEM TO MAINTAIN SUPPLY TEMPERATURE (ADJ.).

D. WHEN OUTSIDE AIR IS ABOVE 55°F AND BELOW 75°F THE HEAT WHEEL SHALL BE OFF, ECONOMIZER BYPASS DAMPERS SHALL OPEN AND RETURN AIR DAMPER SHALL BE CLOSED. THE DX COIL SUCTION PRESSURE SENSOR SHALL MODULATE THE PACKAGED WATER-COOLED HEAT PUMP SYSTEM TO MAINTAIN 52°F (ADJ.). SUPPLY AIR TEMPERATURE SENSOR SHALL MODULATE THE HOT GAS REHEAT TO MAINTAIN SUPPLY TEMPERATURE (ADJ.).

E. WHEN THE OUTSIDE AIR IS ABOVE 75°F, THE HEAT WHEEL SHALL OPERATE AT FULL SPEED, ECONOMIZER BYPASS DAMPERS SHALL CLOSE AND RETURN AIR DAMPER SHALL BE CLOSED. THE DX COIL SUCTION PRESSURE SENSOR SHALL MODULATE THE PACKAGED WATER-COOLED HEAT PUMP SYSTEM TO MAINTAIN 52°F (ADJ.). SUPPLY AIR TEMPERATURE SENSOR SHALL MODULATE THE HOT GAS REHEAT TO MAINTAIN SUPPLY TEMPERATURE (ADJ.).

F. IF THE SUCTION PRESSURE FALLS BELOW THE LOW LIMIT (ADJ.) THE PACKAGED WATER-COOLED HEAT PUMP SYSTEM SHALL REVERT FROM TEMPERATURE CONTROL TO SEQUENTIALLY UNLOADING STAGES TO MAINTAIN THE LOW LIMIT SETPOINT.

4. OUTSIDE AIR CONTROL:

A. THE DEDICATED OUTSIDE AIR SYSTEM IS A VARIABLE VOLUME 100% OUTSIDE AIR SYSTEM. OUTSIDE AIR FLOW SHALL BE MEASURED BY AIR FLOW MEASURING STATION. RELIEF AIR FAN SHALL VARY RELIEF AIR FLOW THROUGH FAN VARIABLE SPEED DRIVE TO VOLUMETRICALLY TRACK OUTSIDE AIR FLOW WHILE MAINTAINING A DIFFERENTIAL OF 5% (ADJ.).
- B. CO₂ SETPOINT SHALL BE 1000 PPM. WHEN CO₂ MEASURED BY ANY SPACE CO₂ SENSOR RISES TO 1200 PPM, THE DEDICATED OUTSIDE AIR SYSTEM SHALL INCREASE THE OUTSIDE AIR TOWARD MAXIMUM OUTSIDE AIRFLOW. WHEN CO₂ SENSOR WITH GREATEST READING FALLS TO 800 PPM, THE OUTSIDE AIR SYSTEM SHALL MAINTAIN AIRFLOW RATE. IF CO₂ AT ALL SPACE SENSORS CONTINUES TO BELOW 750 PPM, THE DEDICATED OUTSIDE AIR SYSTEM SHALL REDUCE THE OUTSIDE AIR TOWARD MINIMUM SYSTEM AIRFLOW UNTIL THE CO₂ AT ANY SPACE CO₂ SENSOR RISES TO 1200 PPM.

5. SUPPLY AIR RESET:

A. SUPPLY AIR TEMPERATURE SHALL BE RESET BASED ON OUTSIDE AIR TEMPERATURE IN ACCORDANCE WITH THE RESET SCHEDULE (ADJ.).

UNOCCUPIED CONTROL (ASSIST MODE):

A. WINTER NIGHT "UNOCCUPIED HEATING" CONTROL

i. WHEN THE "UNOCCUPIED HEATING" CONTROL IS STARTED THROUGH THE VRF TERMINAL UNITS CONTROL SEQUENCE THE INTERLOCKED OUTSIDE AIR SYSTEM UNIT SHALL START. THE RELIEF AIR FAN, EXHAUST AIR FAN(S) SHALL BE OFF. OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL BE CLOSED. RETURN AIR DAMPER SHALL BE OPEN. THE PACKAGED WATER-COOLED HEAT PUMP SYSTEM SHALL BE ON UNTIL RETURN AIR TEMPERATURE TO THE DOAS UNIT REACHES 65°F (ADJ.).

B. SUMMER NIGHT "UNOCCUPIED COOLING" CONTROL

i. WHEN THE "UNOCCUPIED COOLING" CONTROL IS STARTED THROUGH THE VRF TERMINAL UNITS CONTROL SEQUENCE THE INTERLOCKED DOAS UNIT SHALL START. THE RELIEF AIR FAN, EXHAUST AIR FAN(S) SHALL BE OFF. OUTSIDE AIR DAMPER AND RELIEF AIR DAMPER SHALL BE CLOSED. RETURN AIR DAMPER SHALL BE OPEN. THE PACKAGED WATER-COOLED HEAT PUMP SYSTEM SHALL START AT FULL CAPACITY UNTIL RETURN AIR TEMPERATURE TO THE DOAS UNIT REACHES 80°F (ADJ.).

UNOCCUPIED CONTROL (MAINTENANCE DEHUMIDIFICATION MODE):

j. WHEN STARTED THROUGH THE EMS OR SCHEDULE VRF TERMINAL UNITS SHALL BE OFF. THE RELIEF AIR FAN AND EXHAUST FAN(S) SHALL BE OFF. OUTSIDE AIR DAMPER AND RELIEF AIR DAMPERS SHALL BE CLOSED. RETURN AIR DAMPER SHALL BE OPEN. THE PACKAGED WATER-COOLED HEAT PUMP SYSTEM SHALL START AND RUN TO MAINTAIN 78°F (ADJ.).
- DEDICATED OUTSIDE AIR SYSTEM (DOAS) SEQUENCE OF OPERATION
- | DEDICATED OUTSIDE AIR SYSTEM (DOAS) INPUT/OUTPUT SUMMARY | | | | | | | | | | CONTROL PANEL | | OUTSIDE/SUPPLY AIR RESET SCHEDULE | |
|--|--|--|--|--|--|--|--|--|--|---------------|--|-----------------------------------|--|
| DEDICATED OUTSIDE AIR SYSTEM (DOAS) | | | | | | | | | | | | | |
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VARIABLE REFRIGERANT CONDENSING UNIT SCHEDULE													
SYSTEM	AREA SERVED	UNIT LOCATION	COOLING CAPACITY (MBH)	HEATING CAPACITY (MBH)	BASE R410 CHARGE (LBS)	EXTRA R410 CHARGE (LBS)	EER ¹	COP ¹	ELECTRICAL			TOTAL WEIGHT (LBS)	BASED ON DAIKIN
									MCA	MAX FUSE	V/ø/Hz		
COND-1	AREA A	ROOF	386.1	304.3	77.4	110.5	9.8	3.21	36.1	40	480/3/60	793.7	REYQ
									31.9	40	480/3/60	793.7	REYQ
									21.1	25	480/3/60	716.5	REYQ
COND-2	AREA B	ROOF	411.3	332.1	77.4	109.9	9.8	3.21	31.9	40	480/3/60	793.7	REYQ
									31.9	40	480/3/60	793.7	REYQ
									21.1	25	480/3/60	716.5	REYQ
COND-3	MEDIA CENTER	ROOF	88.9	84.2	25.8	15.2	14.6	4.25	31.9	40	480/3/60	793.7	REYQ
COND-4	OFFICE	ROOF	93.8	85.5	25.8	16.3	14.6	4.25	21.1	25	480/3/60	716.5	REYQ
COND-5	AREA C1	ROOF	158.6	113.0	25.8	55.2	11.6	3.7	36.1	40	480/3/60	793.7	REYQ
COND-6	AREA C2	ROOF	114.4	88.3	25.8	28	13.1	4.0	21.1	25	480/3/60	716.5	REYQ

1. RATED IN ACCORDANCE WITH AHRI STANDARD 1230, NON-DUCTED 47F.
2. SCHEDULED CAPACITIES BASED ON 95/42.3 F COOLING AND 10/115 F HEATING, DERATED FOR DEFROST AND REFRIGERANT LINE LOSSES
3. VRY SYSTEM SHALL AUTOMATICALLY RESET THE REFRIGERANT SUCTION/CONDENSING TEMPERATURES BASED ON THE AMBIENT, INDOOR AND SYSTEM CONDITIONS.
4. OUTDOOR UNIT SHALL INCORPORATE CONDENSER BASE PAN DEFROST. ADDITIONAL ELECTRIC HEATERS SHALL NOT BE ACCEPTABLE.
5. CONDENSER COIL SHALL BE CORROSION RESISTANT, BLUEFIN COATED, RATED AND TESTED FOR 1000 HR SALT SPRAY TEST.

ELECTRIC UNIT HEATER SCHEDULE									
UNIT	AREA SERVED	CAPACITY			ELECTRICAL CHARAC		TYPE	L x H x D	BASED ON BERKO MODEL
		CFM	BTUH	KW	V/ø/Hz	AMPS			
UH-1	MECHANICAL ROOM-C129	650	34120	10	480/3/60	12.0	HORIZONTAL	21.75x19x8.5	HUHA
UH-2	MECHANICAL PENTHOUSE-C204	650	34120	10	480/3/60	12.0	HORIZONTAL	21.75x19x8.5	HUHA
UH-3	NOT USED								
UH-4	MECHANICAL PENTHOUSE-C208	650	34120	10	480/3/60	12.0	HORIZONTAL	21.75x19x8.5	HUHA
UH-5	KINDERGARTEN STORAGE-A130A	350	10236	3	480/3/60	3.6	HORIZONTAL	16x14x8.5	HUHA
UH-6	PE OUTDOOR STORAGE-C126	350	10236	3	480/3/60	3.6	HORIZONTAL	16x14x8.5	HUHA
UH-7	OUTDOOR STORAGE-C125	350	17060	5	480/3/60	6.0	HORIZONTAL	16x14x8.5	HUHA
UH-8	WATER-119C	350	10236	3	480/3/60	3.6	HORIZONTAL	16x14x8.5	HUHA
UH-9	PUMP STATION	350	10236	3	480/3/60	3.6	HORIZONTAL	16x14x8.5	HUHA

- NOTES: 1. PROVIDE CUSTOM COLOR AS SELECTED BY ARCHITECT
2. PROVIDE INTEGRAL POWER DISCONNECT SWITCH

PUMP SCHEDULE									
UNIT P-X	AREA SERVED	GPM	FT OF HEAD	MOTOR		SIZE (SxøxL)	REMARKS	BASED ON	IACO MODEL
				HP	RPM	V/ø/Hz			
P-1	GEOTHERMAL SYSTEM	380	100	20	1760	460/3/60	4x3x10	BASE MOUNTED END SUCTION	F13011D
P-2	GEOTHERMAL SYSTEM (SB)	380	100	20	1760	460/3/60	4x3x10	BASE MOUNTED END SUCTION	F13011D

- NOTES: PROVIDE VARIABLE SPEED DRIVES AND INVERTER DUTY RATED MOTORS
SB - STAND BY

ELECTRIC BASEBOARD RADIATION SCHEDULE									
UNIT	AREA SERVED	TOTAL CAP (kW)	WATT/LF	ACTIVE ELEM (FT)	MOUNTING HT. (in)	ENCLOSURE HT. (in)	ELEC V/ø/Hz	BASED ON	
EBBR-1	PRINCIPAL A106	2.3	250	9	4	7	277/1/60	BERKO 2573W	DSW2W
EBBR-2	PRINCIPAL A106	1.0	250	4	4	7	277/1/60	BERKO 2574W	DSW2W
EBBR-3	AP OFFICE A104	1.0	250	4	4	7	277/1/60	BERKO 2574W	DSW2W
EBBR-4	AP OFFICE A103	2.3	250	9	4	7	277/1/60	BERKO 2573W	DSW2W
EBBR-5	RECEPTION A101	1.0	250	4	4	7	277/1/60	BERKO 2574W	DSW2W
EBBR-6	RECEPTION A101	1.0	250	4	4	7	277/1/60	BERKO 2574W	DSW2W

ELECTRIC WALL-MOUNTED HEATER SCHEDULE									
UNIT EWH-X	AREA SERVED	ELEC CHAR V/ø/Hz	EMERGENCY POWER	TOTAL CAP (KW)		AMPS	TYPE	BASED ON (BERKO)	
				(KW)	(BTU/hr)				
1	TOILET-A125A	120/1/60	NO	0.5	1706	4.2	RECESSED - WALL	SRA10120SAF	
2	TOILET-B118A	120/1/60	NO	0.5	1706	4.2	RECESSED - WALL	SRA10120SAF	
3	TOILET-B222A	120/1/60	NO	0.5	1706	4.2	RECESSED - WALL	SRA10120SAF	

- NOTES: 1. PROVIDE CUSTOM COLOR AS SELECTED BY ARCHITECT

AIR DEVICE SCHEDULE NOTES:

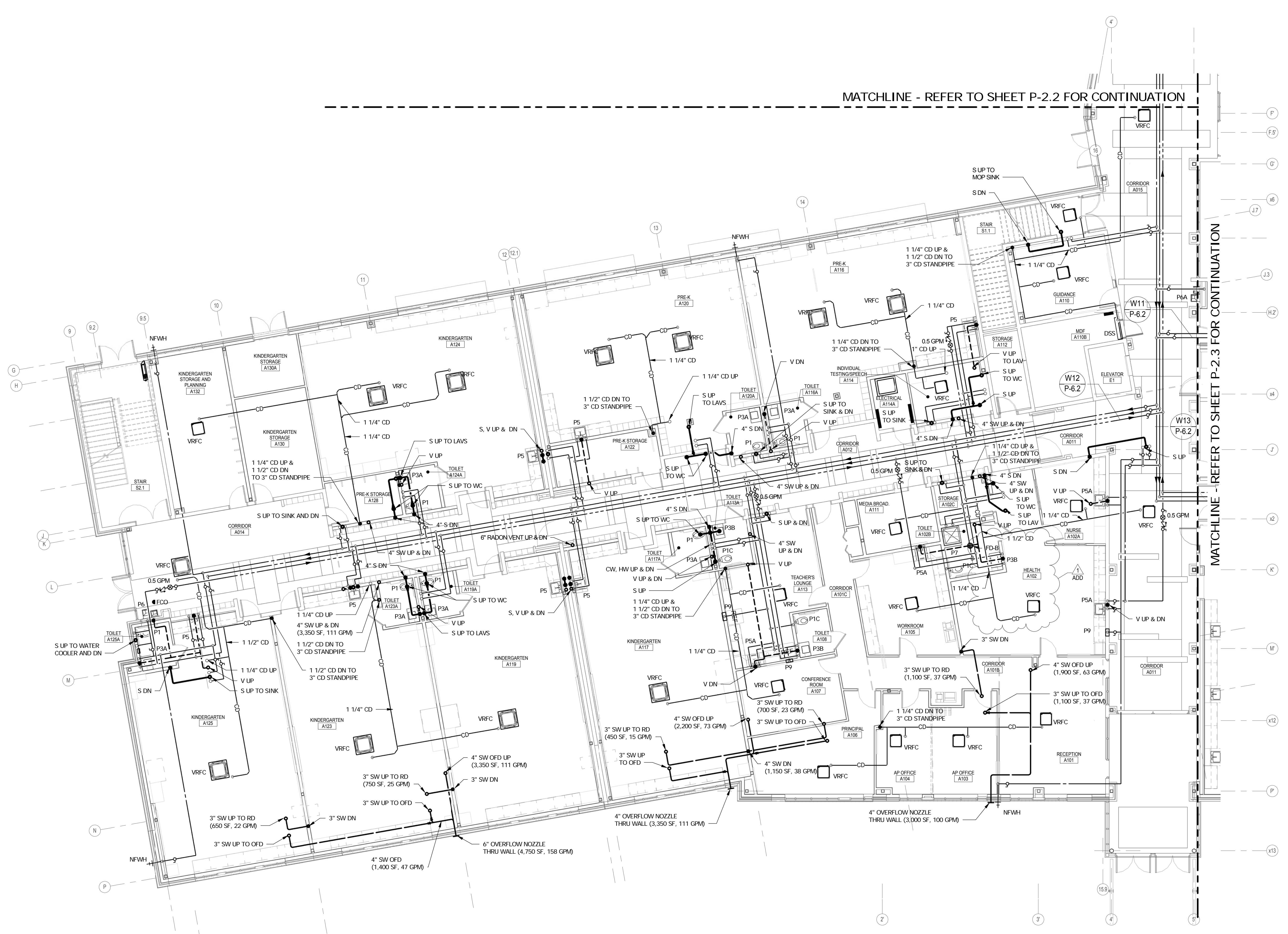
1. ALL SUPPLY AIR DIFFUSERS SHALL BE 4-WAY BLOW UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
2. ALL SUPPLY AIR REGISTERS SHALL BE DOUBLE DEFLECTION WITH FRONT BLADES PARALLEL TO THE SHORT DIMENSION
3. PROVIDE 24x24 OR 48x24 MODULE FOR ALL LAY-IN SUPPLY, RETURN, AND EXHAUST AIR DEVICES. TRM MODULE AS NECESSARY TO FIT INTO GRID IF LESS THAN 24x24 OR 48x24
4. EGGRATE REGISTERS SHALL HAVE 1/2"x1/2"x1" DEEP ALUMINUM CORES.
5. EXHAUST REGISTERS CONNECTED TO STAINLESS STEEL DUCTWORK SHALL BE CONSTRUCTED OF STAINLESS STEEL.
6. NOT ALL AIR DEVICES SCHEDULED MAY BE USED.
7. FOR SUPPLY AIR DEVICES CONNECTED TO THE BOTTOM OF BRANCH DUCTS (øe SERVING MORE THAN ONE AIR DEVICE) PROVIDE DAMPER WITH GRID, PRICE MODEL VCR6 OR EQUAL.
8. COLLAR SIZE REFERS TO RUNOUT CONNECTION TO SOUND LINED PLENUM BOX FABRICATED BYU THE SHEET METAL CONTRACTOR CONNECTING TO THE DIFFUSER NECK. REFER TO DETAILS FOR ADDITIONAL INFORMATION.
9. PROVIDE AIR EXTRACTOR FOR ALL SIDEWALL SUPPLY REGISTERS.
10. PROVIDE ALUMINUM CONSTRUCTION FOR ALL AIR DEVICES LOCATED IN LOCKER ROOMS, KITCHEN, ROOMS WITH SHOWERS AND ALL SCIENCE LABS.
11. ALL SMDA TYPE DIFFUSERS SHALL BE PROVIDED WITH ADJUSTABLE VANES, ACCESSIBLE FROM THE DIFFUSER FACE, WITH THE DISCHARGE PATTERN SET TO THE VERTICAL POSITION.

LINEAR SLOT DIFFUSER SCHEDULE										
Nº	DUTY	CFM		Nº OF SLOTS	SLOT WIDTH (IN)	TOTAL LENGTH (FT)	COLAR OR INLET SIZE (ø)	MAX N.C.	PLENUM SIZE IN. (SOUND LINED)	BASED ON (PRICE)
		PER L.F.	TOTAL							
L1	SUPPLY	86.25	345	2	1.00	4	8	22	12Hx48W	JS210
L2	RETURN	103	515	2	1.00	5	10	22	24Hx48W	JS210
L3	SUPPLY	105	420	2	1.00	4	10	18	18Hx48W	JS210

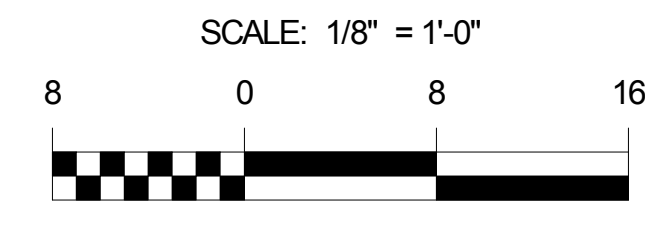
- NOTES: 1. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATION.
2. L1 DISCHARGE SHALL BE ADJUSTED TO 45 DEGREE THROW

AIR DEVICE SCHEDULE						
No. Sx	MAX CFM	NECK SIZE	COLLAR ø SIZE	MAX NC	TYPE (SEE SPEC.)	
SUPPLY AIR DEVICE						
S1	410	12x12	10	18	PRICE SMDA	
S2	255	9x9	8	18	PRICE SMDA	
S3	600	15x15	12	18	PRICE SMDA	
S4	125	6x6	6	18	PRICE SMDA	
S5	800	18x18	14	18	PRICE SMDA	
S6						
S7	135	6x6	—	18	PRICE 520	
S8	380	10x10	—	18	PRICE 520	
S9	650	18"ø	18	30	PRICE RID	
S10	370	12"ø	12	18	PRICE RID	
S11	1110	32x10	—	18	PRICE 520	
RETURN AIR DEVICE						
R1	85	6x6	—	18	PRICE 530	
R2	360	12x12	—	18	PRICE 530	
R3	610	16x16	—	18	PRICE 530	
R4	2500	48x20	—	18	PRICE 93	
R5	1145	22x22	—	18	PRICE 530	
R6	1345	24x20	—	18	PRICE 93	
R7	1430	56x12	—	18	PRICE 530	
R8	1305	24x24	—	18	PRICE 530	
RETURN AIR DEVICE						
E1	85	6x6	—	18	PRICE 530	
E2	225	16x6	—	18	PRICE 530	
E3	610	16x16	—	18	PRICE 530	
E4	360	12x12	—	18	PRICE 530	
E5	255	12x8	—	18	PRICE 530	
E6	835	18x18	—	18	PRICE 530	
E7	255	10x10	—	18	PRICE 530	

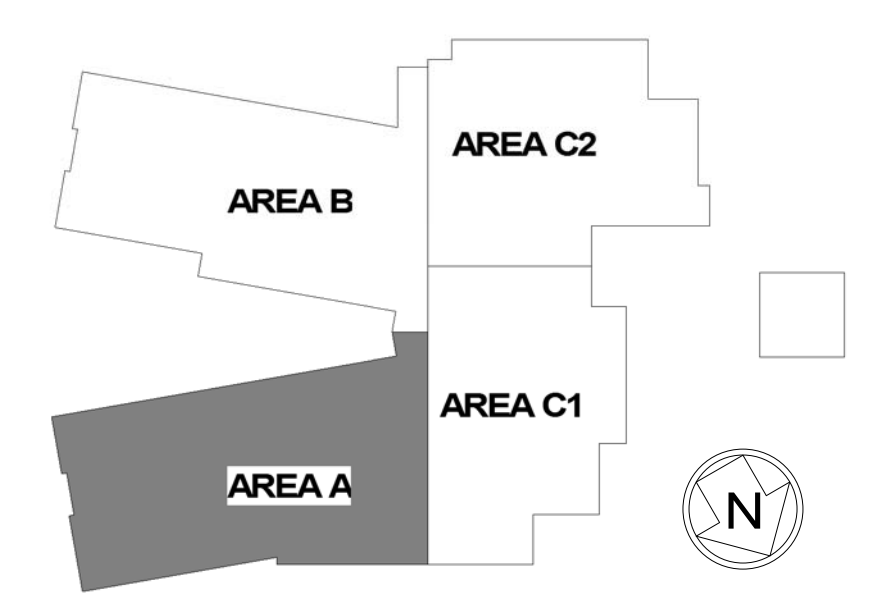
VARIABLE REFRIGERANT FAN COIL SCHEDULE														
UNIT No.	SERVICE	CONDENSER	TYPE	SENSIBLE COOLING CAPACITY (MBH)	HEATING CAPCITY (MBH)	SOUND PRESSURE LEVEL (dB(A))	AIR FLOW HIGH (CFM)	ELECTRICAL			TOTAL WEIGHT (LBS)	BASED ON DAIKIN		
								(V/ø/Hz)	MCA	MFS				
1.01	KINDERGARTEN-A125	1	CEILING CASSETTE	14.3	20.0	28	560	208/1/60	0.6	15	51	FXFQ		
1.02	KINDERGARTEN-A123	1	CEILING CASSETTE	14.3	20.0	28	560	208/1/60	0.6	15	51	FXFQ		
1.03	KINDERGARTEN-A119	1	CEILING CASSETTE	14.3	20.0	28	560	208/1/60	0.6	15	51	FXFQ		
1.04	KINDERGARTEN-A117	1	CEILING CASSETTE	14.3	20.0	28	560	208/1/60	0.6	15	51	FXFQ		
1.05	KINDERGARTEN-PTO & PLANNING-A11	1	CEILING CASSETTE	14.3	20.0	28	560	208/1/60	0.6	15	51	FXFQ		
1.06	KINDERGARTEN-A124	1	CEILING CASSETTE	14.3	20.0	28	560	208/1/60	0.6	15	51	FXFQ		
1.07	PRE-K-A120	1	CEILING CASSETTE	14.3	20.0	28	560	208/1/60	0.6	15	51	FXFQ		
1.08	PRE-K-A116	1	CEILING CASSETTE	14.3	20.0	28	560	208/1/60	0.6	15	51	FXFQ		
1.09	INDIVIDUAL TEST SPEECH-A114	1	CEILING CASSETTE	14.3	20.0	28	560	208/1/60	0.6	15	51	FXFQ		
1.10	GUIDANCE-A110	1	CEILING CASSETTE	5.4	8.5	30	320	208/1/60	0.3	15	35	FXZQ		
1.11	CORRIDOR-A014	1	CEILING CASSETTE	17.8	27.0	28	780	208/1/60	0.7	15	51	FXFQ		
1.12	STAIR-S2.1	1	FLOOR MOUNTED	14.3	27.0	35	560	208/1/60	0.6	15	68	FXNQ		
1.13	INTERVENTION (LLS)-A227	1	CEILING CASSETTE	7.2	13.6	26	335	208/1/60	0.4	15	36	FXZQ		
1.14	PLANNING-A223	1	CEILING CASSETTE	6.0	10.6	26	320	208/1/60	0.3	15	35	FXZQ		
1.15	CLASSROOM-A221	1	CEILING CASSETTE	14.3	20.0	28	560	208/1/60	0.6	15	51	FXFQ		
1.16	CLASSROOM-A217	1	CEILING CASSETTE	14.3	20.0	28	560	208/1/60	0.6	15	51	FXFQ		
1.17	CLASSROOM-A215	1	CEILING CASSETTE	14.3	20.0	28	560	208/1/60	0.6	15	51	FXFQ		
1.18	CLASSROOM-A211	1	CEILING CASSETTE	17.8	27.0	28	780	208/1/60	0.7	15	51	FXFQ		
1.19	CLASSROOM-A209	1	CEILING CASSETTE	17.8	27.0	28	780	208/1/60	0.7	15	51	FXFQ		
1.20	READING OFFICE-A205	1	CEILING CASSETTE	9.8	17.1	28	388	208/1/60	0.4	15	36			



PARTIAL FIRST FLOOR PLAN - AREA A
SCALE: 1/8" = 1'-0"



KEY PLAN - AREA A



- GENERAL NOTES:
- COORDINATE LOCATION OF OVERFLOW NOZZLE DISCHARGE WITH THE ARCHITECTURAL ELEVATIONS. DISCHARGE LOCATION THRU WALL SHALL BE ABOVE CEILING.
 - FOR ADDITIONAL SIZING REFER TO RISER DIAGRAMS, DETAILS AND PLUMBING FIXTURE CONNECTION SCHEDULE.

Gipe Associates, Inc.
Consulting Engineers
1001 West Apple Road, Suite 201, Towson, MD 21204
Baltimore, MD
W.D. # 17092

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11720 Beltsville Drive
Suite 600
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www.gipemandparker.com

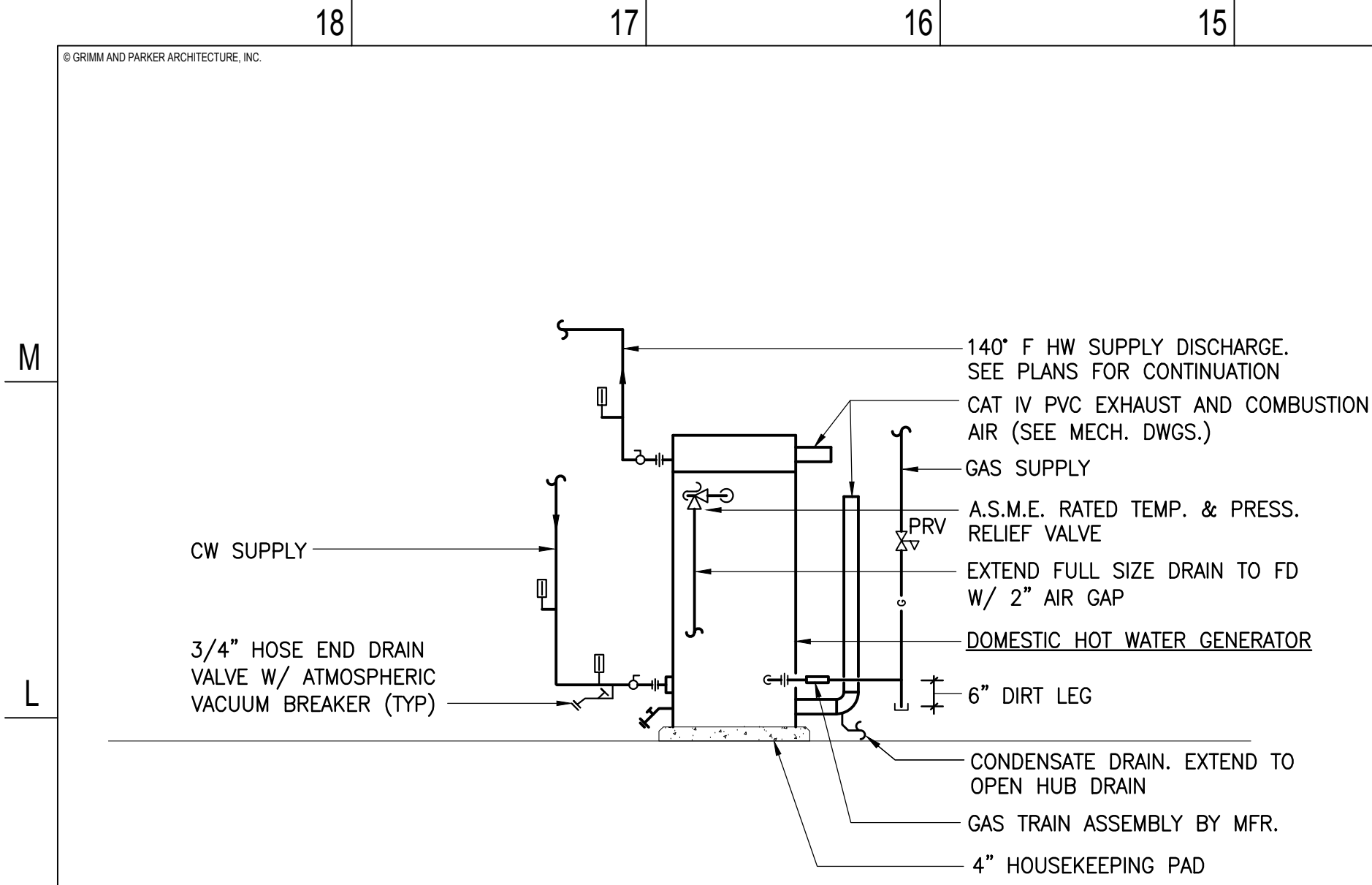
GRIMM AND PARKER

GP #21740

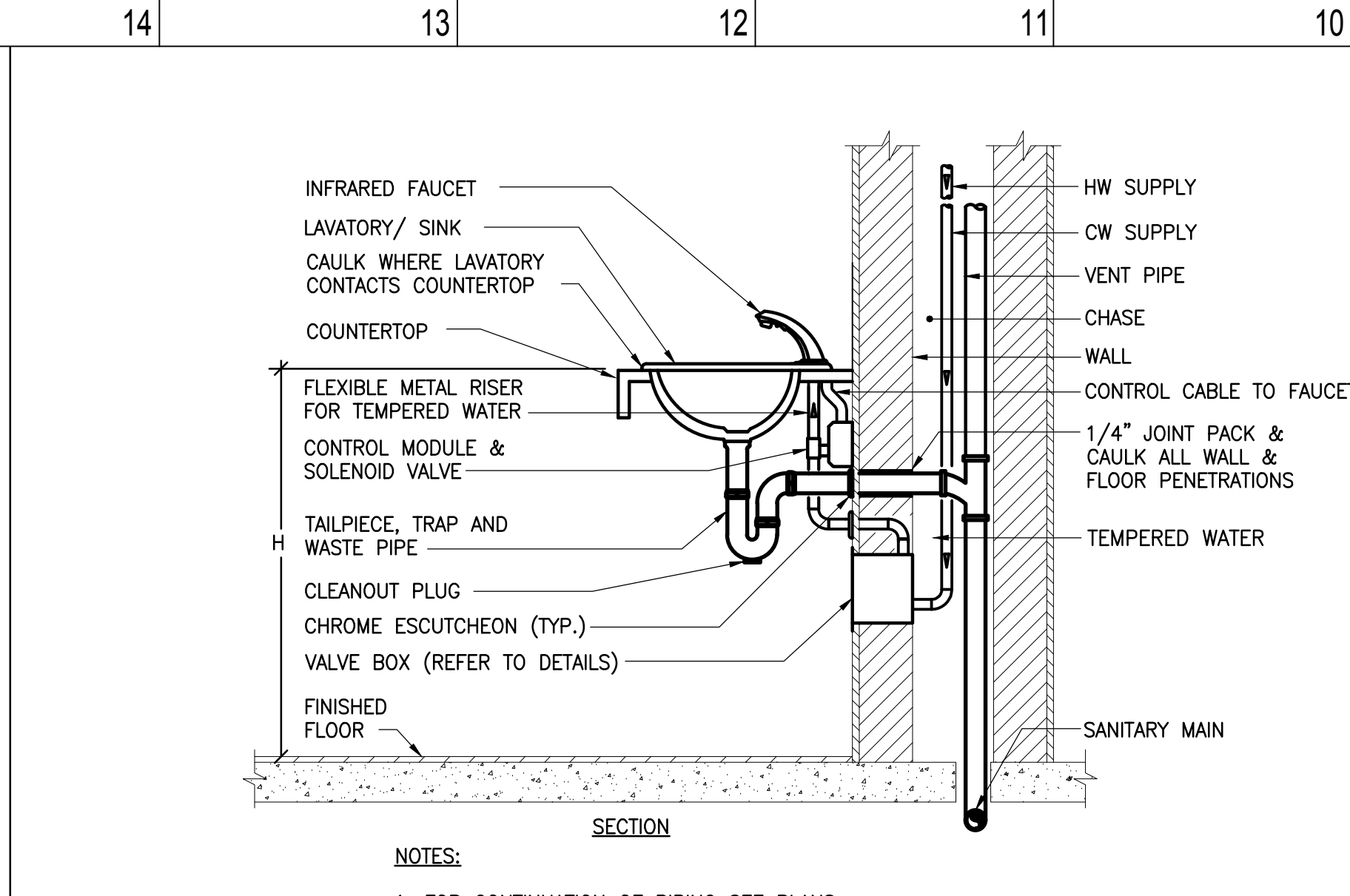
PARTIAL FIRST FLOOR PLAN - AREA A
URBANA ELEMENTARY SCHOOL REPLACEMENT
FREDERICK COUNTY, MARYLAND

DATE	DESCRIPTION
1/25/19	ADDENDUM 1

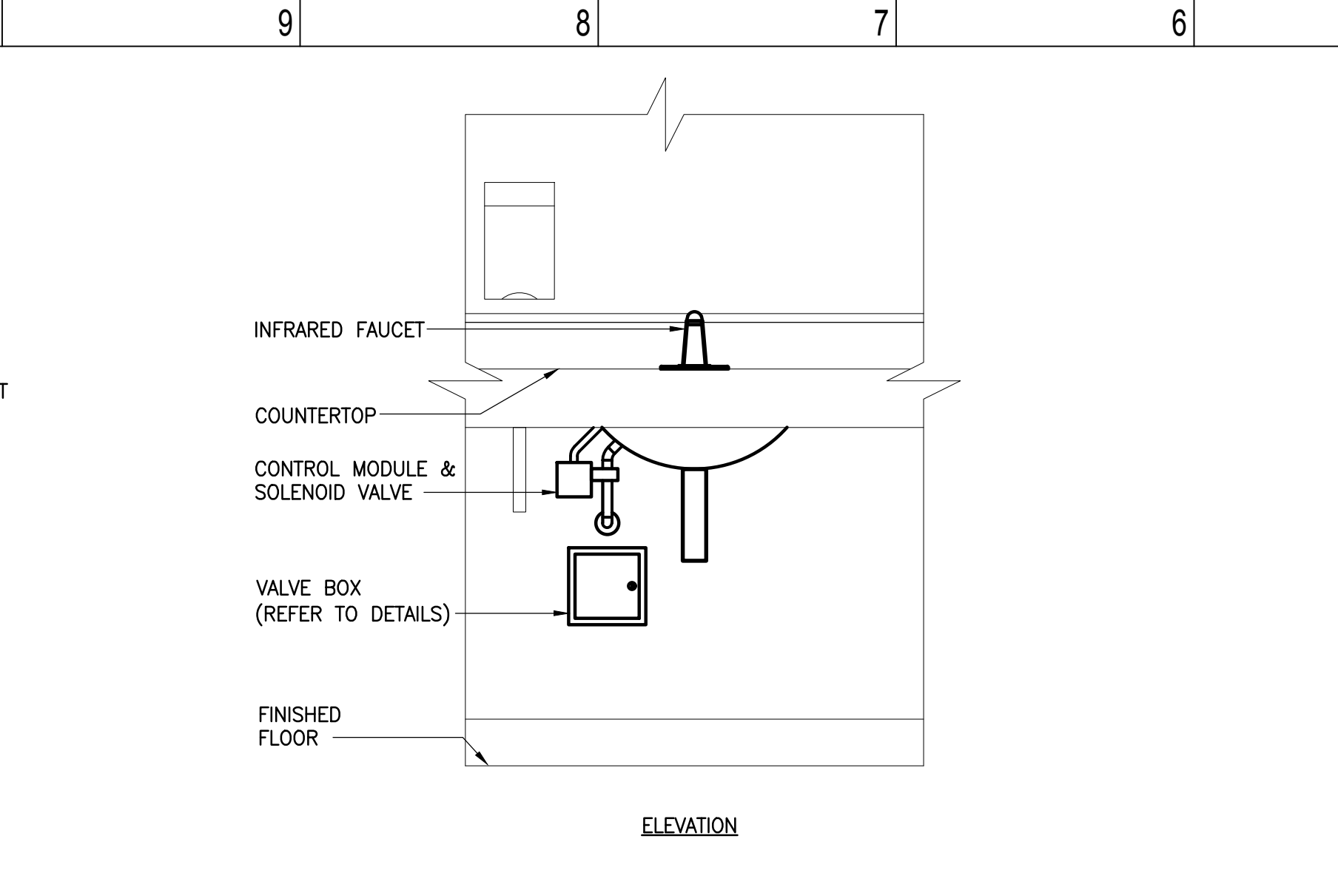
P-2.1
01/10/2019
BID SET
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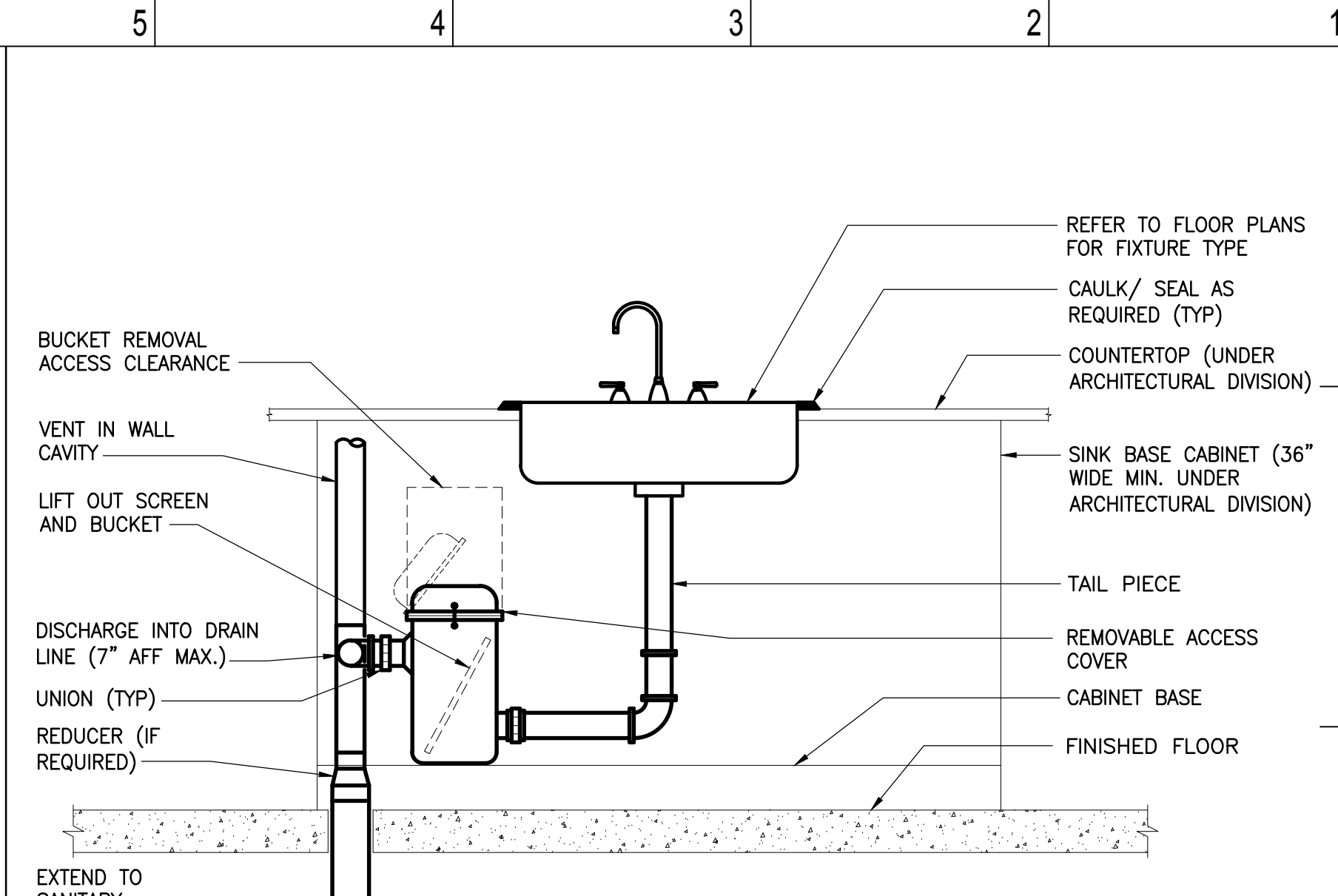
K (17) TYPICAL GAS FIRED HOT WATER GENERATOR DETAIL SCALE: NONE



⑮ TYPICAL COUNTER MOUNTED LAVATORY (INFRARED FAUCET)



CET) DETAIL SCALE: NONE



19 SINK WITH TOP ACCESS FLOOR MOUNTED SOLIDS
TRAP PIPING DETAIL SCALE: NONE

Gipse Associates Inc.
Consulting Engineers
1401 West 17th Avenue, Suite 100, Denver, CO 80202
Baltimore, Maryland
Baltimore, Maryland

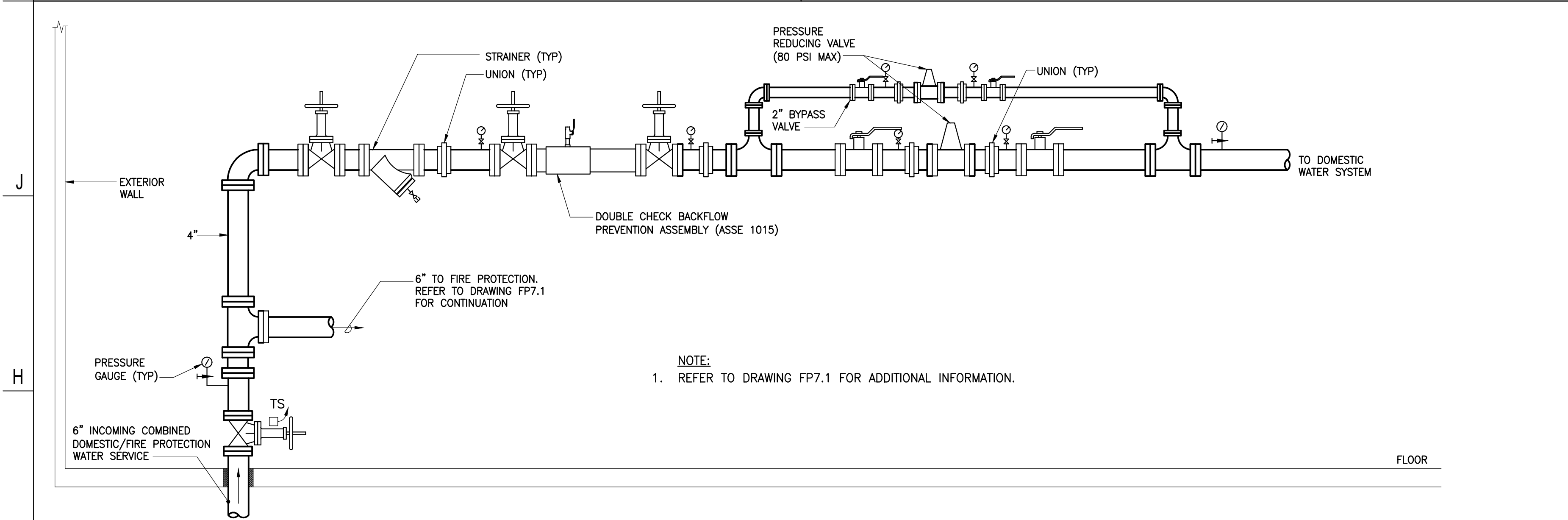
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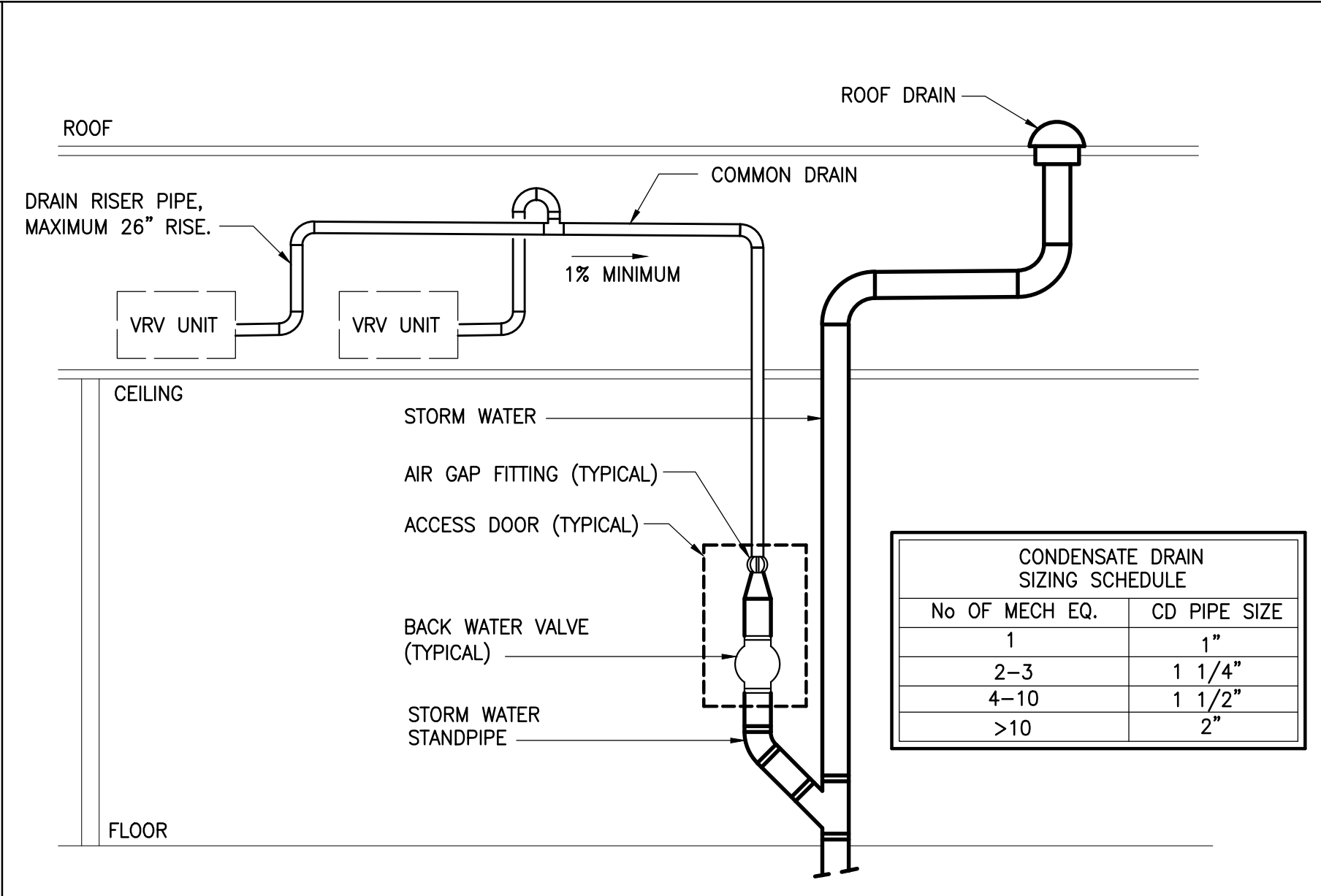
M

L

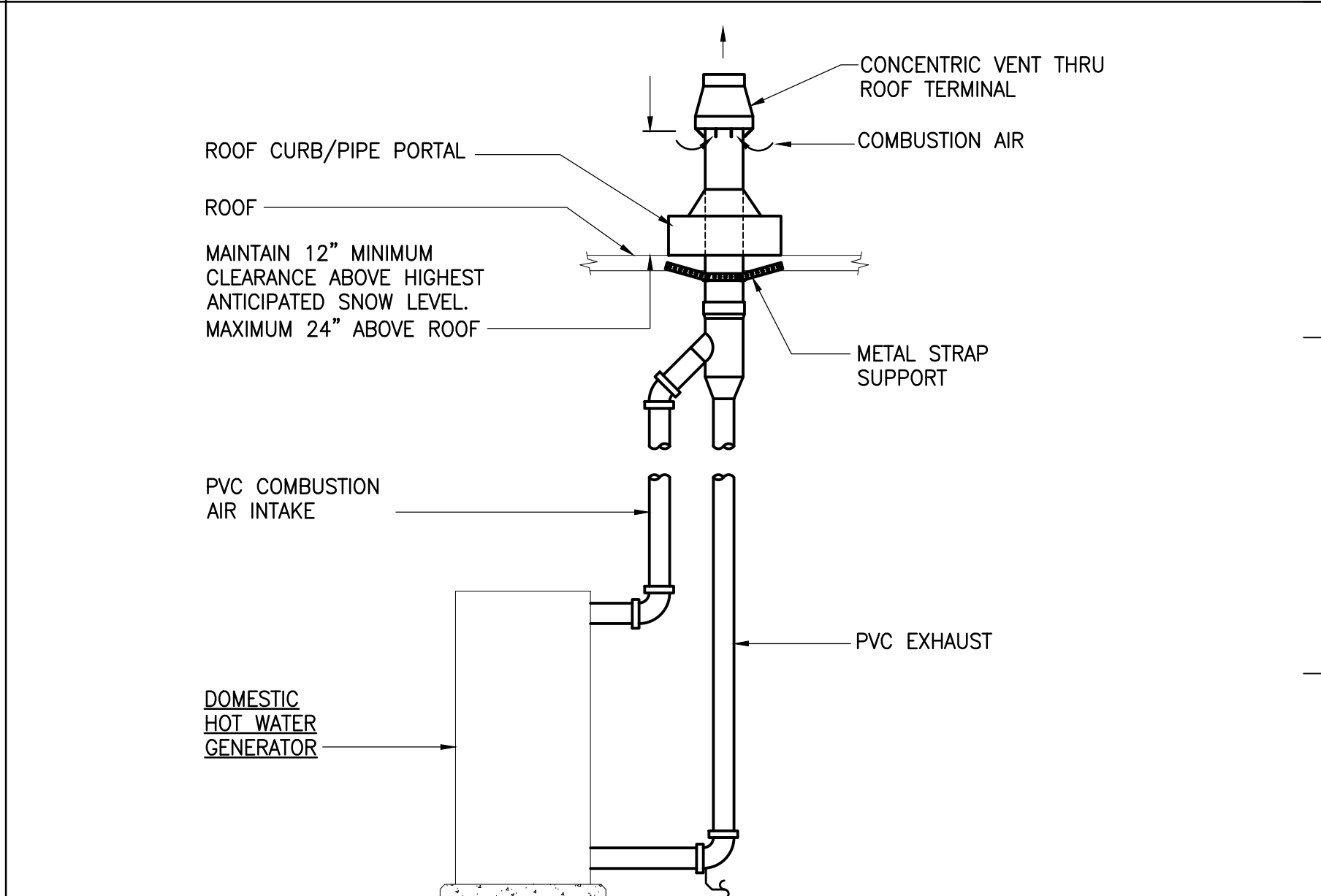
PROFESSIONAL CERTIFICATION
I, **CHRISTOPHER JOHN GIPSE**, CERTIFICATE NUMBER **ME-00000000**, AM A LICENSED PROFESSIONAL ENGINEER IN THE STATE OF **MARYLAND**. I AM NOT PROVIDING ENGINEERING SERVICES IN ANY OTHER STATE OR COUNTRY.
I AM NOT PROVIDING ENGINEERING SERVICES IN ANY OTHER STATE OR COUNTRY.
I AM NOT PROVIDING ENGINEERING SERVICES IN ANY OTHER STATE OR COUNTRY.



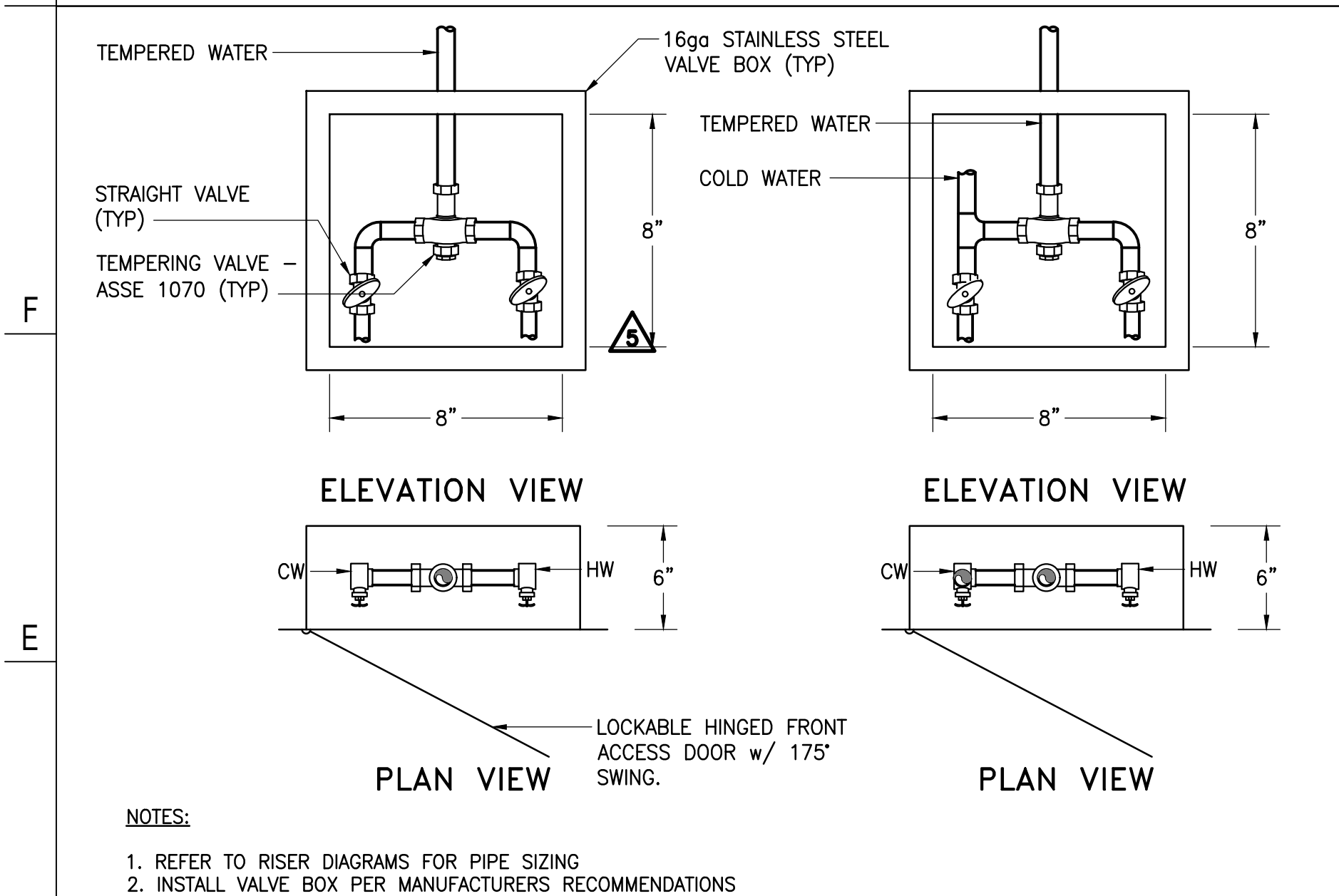
20 INCOMING WATER SERVICE DETAIL SCALE: NONE



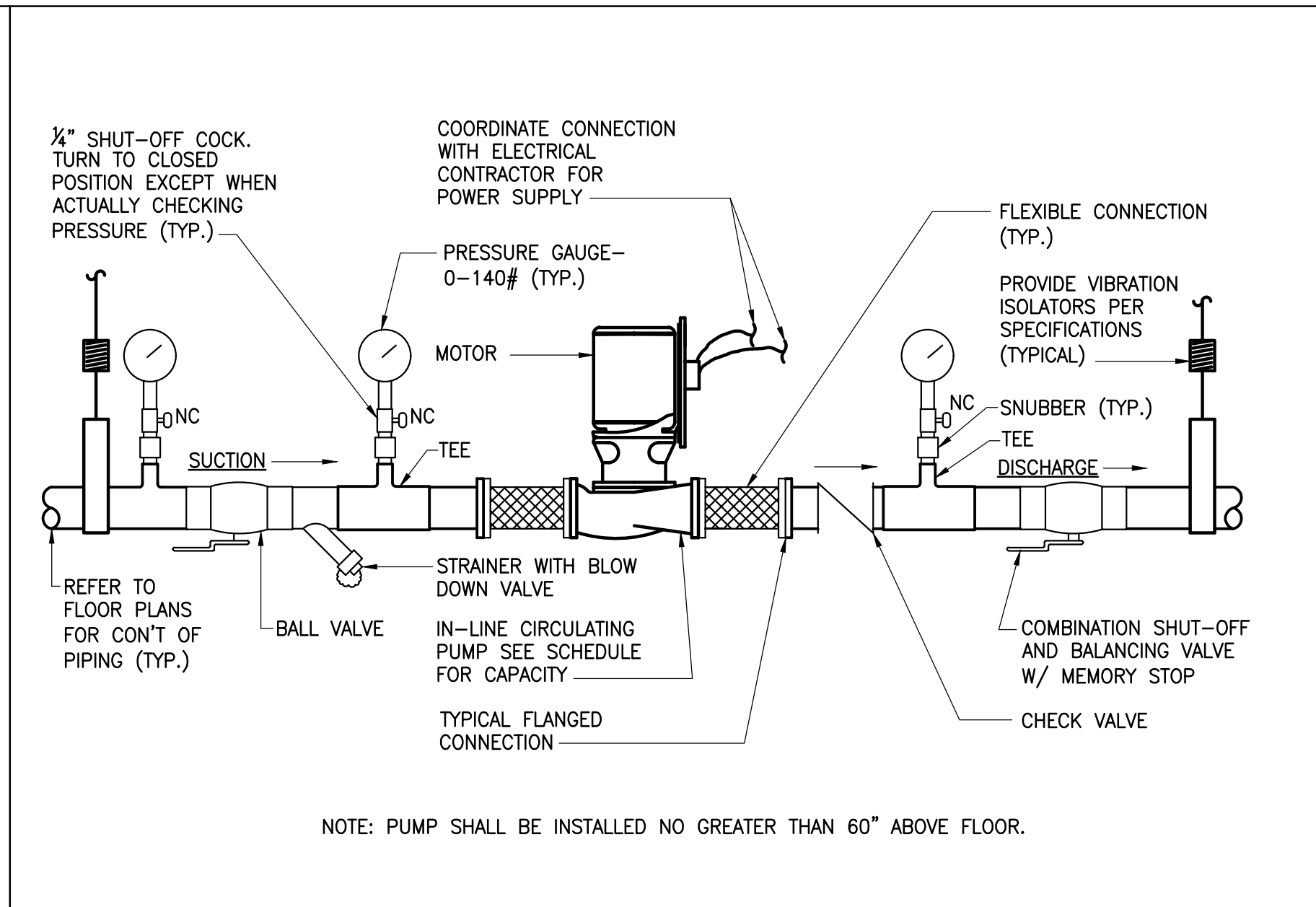
21 TYPICAL CONDENSATE DRAIN
STANDPIPE DETAIL



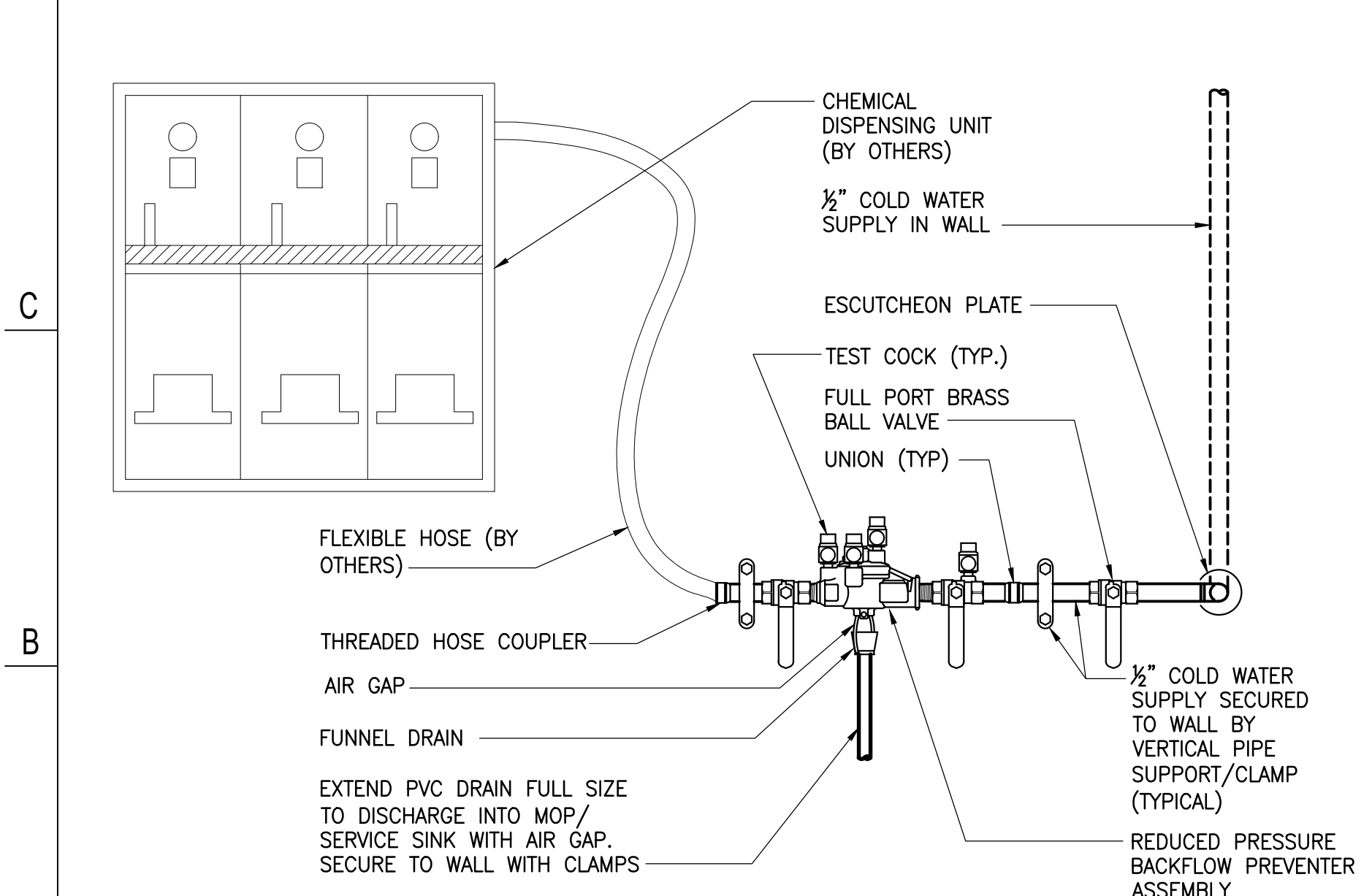
22 HOT WATER GENERATOR COMBUSTION AIR/
EXHAUST PIPING DETAIL SCALE: NONE



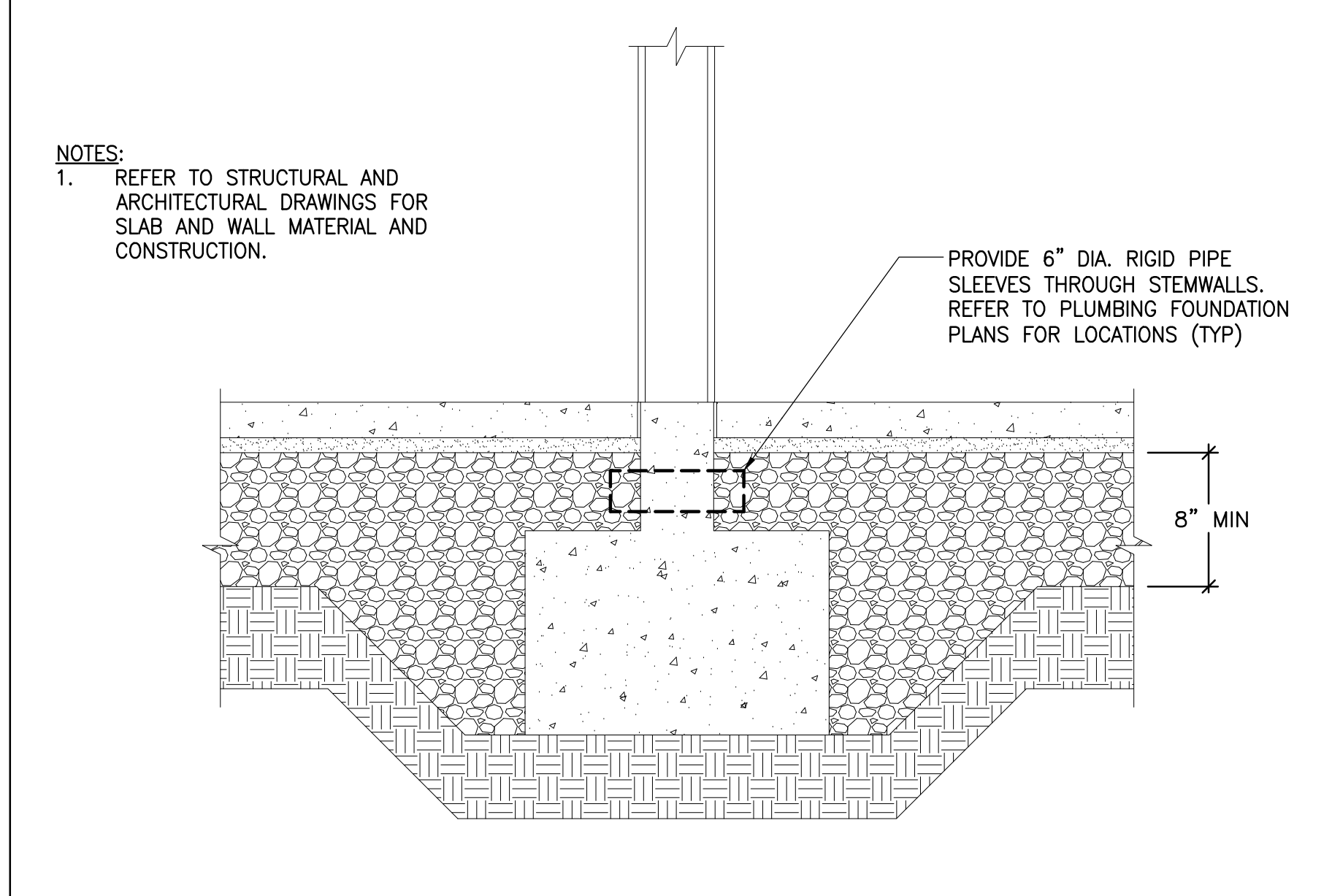
D (23) VALVE BOX DETAIL SCALE: NONE



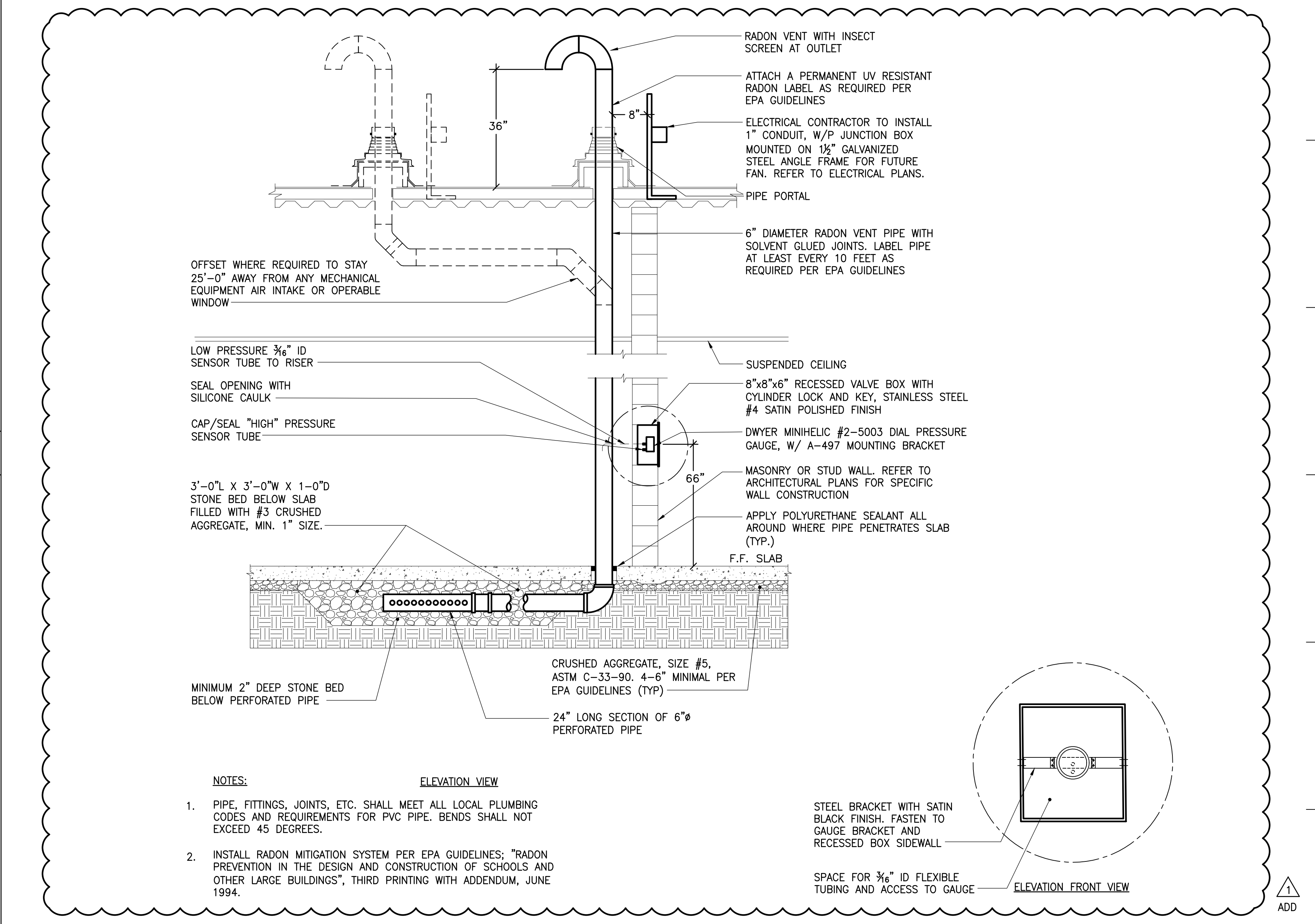
24 IN-LINE HOT-WATER RECIRCULATING PUMP DETAIL SCALE: NONE



25 CHEMICAL DISPENSING WATER SUPPLY DETAIL SCALE: NONE




26 TYPICAL RADON MITIGATION PIPE SLEEVE
THROUGH STEM WALL DETAIL SCALE: NONE



27) RADON VENT PIPING DETAIL

11720 Beltsville Drive
Suite 600
Calverton, MD 20705
Tel: 301.595.1000
www.grimmandparker.com



GRIMM AND PARKER

GP #21740

PLUMBING EQUIPMENT DETAILS	C	D
URBANA ELEMENTARY SCHOOL REPLACEMENT FREDERICK COUNTY, MARYLAND		

DATE	DESCRIPTION
1/25/19	ADDENDUM 1

		B

D 70

P-7.2

01/10/2019
BID SET
J. GRIMM AND PARKER ARCHITECTURE, INC.



PRE- BID MEETING - AGENDA / NOTES

DATE: January 18, 2019

PROJECT: Bid #19C4 - Urbana Elementary School–Replacement–Construction Stage 2

1. INTRODUCTION – FACILITIES – CONSTRUCTION MANAGEMENT

- Introduced all parties involved with the project and completed Sign-In Sheet.

2. PROCUREMENT RESPONSIBILITIES – PURCHASING DEPARTMENT

- Invitation to Bid.
- Instructions to completing Form of Proposal.
 - Section IV – Prequalification Information – E-Maryland Marketplace
- Define contract documents (i.e. Bonding-Bid, Performance and Payment, Certificates of Insurance, Form of Proposal, etc.)
- List of Additional Insured's is to be as per Article 10 Item 10.4 as shown in the AIA Document 132-2009 and with the addition of Oak Contracting.
- This Project is utilizing the Construction Management Agency delivery method.
- The Standard Form of Agreement between owner and contractor where the Construction Manager is not a Constructor is AIA Document A132-2009 - Contract and AIA Document A232-2009 – General Conditions.
- The Project will receive State funding, therefore there are MBE Goals and requirements for this Project.
- Only registered MDOT MBE Companies will be recognized.
- Liquidated Damages are included with this Project as listed in the Project Specifications.
- The Project will be Bid **only** be bid utilizing the Prevailing Wage Scale included in the Bid Documents.
- Each prospective Contractor must review the Wage rate Classification and determine if the appropriate worker classification is included for their respective classification of worker who will be performing their scope of work. If the proper classification is not listed please submit an RFI and the DLLR will be contacted and the requested worker classification wage rate information will be provided.
- Each successful Contractor must register with DLLR for this Project.
- All Project Documents can be obtained from the FCPS website.
- FCPS Purchasing will be issuing all Addenda to all plan holders registered for this Project via the FCSP website.

3. DEFINE PROJECT SCOPE OF WORK – FACILITIES – CONSTRUCTION MANAGEMENT

- The Urbana Elementary School – Replacement Construction Stage 2 Project will consist of the following Prime Contractor Contract Packages:
 - **Bid Group 1**
 - 2A – Site Work and Geothermal
 - 3A - Concrete
 - 4A – Masonry
 - 5A – Steel
 - 6A – General Carpentry
 - 7A – Roofing
 - 8A – Windows and Storefront
 - 9A – Drywall and Acoustical
 - 15A – Mechanical
 - 16A - Electrical
 - **Bid Group 2**
 - 9B – Tile
 - 9C – Fluid Applied Flooring and Terrazzo Flooring
 - 9D – Resilient Flooring and Rubber Athletic Surfacing
 - 9E – Painting
 - 11A – Food Service Equipment
 - 11B – Athletic Equipment
- The Urbana Elementary School – Replacement – Construction Stage 2 Project is being designed and performed under LEED version 4 with a Silver Certification and all of these associated requirements must be fulfilled.
- The Construction is being broken up into two (2) Phases and the Contract awards will be awarded respective of the Construction Phases.
- Construction Stage 2 Phase A is for all work as defined in the Construction Schedule prior to July 1, 2019
- Construction Stage 2 Phase B is for all remaining work

4. DEFINE START / COMPLETION DATES AND SCHEDULE – FACILITIES – CONSTRUCTION MANAGEMENT

- A copy of the school calendar is in the specifications.
- Bid Date: February 20, 2019 @ FCPS Purchasing - Contract Bid Group 1 @ 10:00 am.
- Bid Date: February 20, 2019 @ FCPS Purchasing - Contract Bid Group 2 @ 1:30 pm.
- All Bids will be read aloud at a time to be determined.
- Construction Stage 2 Phase A Contract Award is at the BOE Meeting on March 13, 2019

- Construction Stage 2 Phase B Contract Award is at the BOE Meeting on June 26, 2019
- Begin Construction Phase 1: April 1, 2019
- Begin Construction Phase 2: July 1, 2019
- Substantial Completion : June 30, 2020

5. GENERAL PROJECT NOTES

- The Grading Permit will be obtained by FCPS from Frederick County.
- The SWM Permit will be obtained by FCPS from Frederick County.
- The MDE Permit will be obtained by FCPS and transferred the successful 2A Contractor.
- The Building Permit will be obtained by FCPS from Frederick County.
- All individual Trade Permits are the responsibility of the respective and responsible individual Trade Contractors as specified in the Contract Packages.
- FCPS, Oak Contracting and Grimm & Parker will be using the Procore Project Management Software System to manage the UES Replacement Construction Stage 2 Project.
- Submittals are required and must be submitted to the CM and approved by Architect / Engineer and FCPS.
- Only Pre-Bid Approved Substitutions will be recognized contingent upon the substitution request following the listed guidelines in the specifications.
- All construction materials and methods shall be per the drawings, specifications and the Frederick County Building Codes and Requirements.
- The Frederick County Construction Department will be inspecting and approving all work.
- Provide a detailed Construction Schedule
- Must take all safety precautions and provide temporary barriers, fencing and signage.
- Contractor is responsible for Test Pitting and any other soil investigation, as required.
- Contractor must coordinate all work with the FCPS provided Geotechnical Inspection and Testing Company.
- A full stake out is required for both the new and replacement work.
- The Project requires a Standard two (2) Year Warranty on all workmanship and materials in conjunction with the other individual material, product and equipment warranties as listed in the Project Specifications.
- The Capital Equipment Informational Unit Prices will need to be submitted by the apparent low bidders with-in 48 hrs. After the bid.
- The apparent low bidders to need to submit the list of Sub-Contractors 10 days after the bid opening along with their required MBE information.
- Standard Project daily work hours are between 7:00 am – 4:00 pm.
- The Project Schedule is based on a 6-day work week.
- The Project will need to follow the Noise regulations as provided in COMAR.
- Any blasting associated with the Project will need to adhere to the State Regulations.

6. **PROJECT QUESTIONS – ARCHITECT / ENGINEER / CONSTRUCTION**

MANAGEMENT (All questions should be presented in written form and emailed to the Construction Manager, Oak Contracting Attn Dave Toth, FCPS Purchasing, Attn. Kim Miskell and the FCPS SPM, Brad Ahalt)

- There will most likely be three (3) Addendums issued on or around the following dates with the last day for questions being **Thursday February 7, 2019.**
 - Addendum #1 – Issued January 25, 2019
 - Addendum #2 – Issued February 1, 2019
 - Addendum #3 – Issued February 11, 2019

Bradley W. Ahalt
Senior Project Manager
FCPS Construction Management

01.18.19 Pre-Bid Meeting Notes Bid 19C4, Urbana Elementary School Replacement – Construction Stage II

The intent of this solicitation is for the construction of the new Urbana Elementary School. Urbana Elementary will be the fourth iteration of the FCPS' prototype elementary school design. The new two-story building will be approximately 98,000 gross square feet in size and have a state rated student capacity of 725 students. The new Urbana Elementary School is anticipated to open in August 2020.

Bids for Construction Stage II - Phase A: 2A Site Work and Geo Thermal; 3A Concrete; 4A Masonry; 5A Steel; 6A General Carpentry; 7A Roofing; 8A Windows and Storefronts; 9A Drywall and Acoustical; 15A Mechanical and 16A Electrical will be received and time stamped in the main lobby of Frederick County Public Schools (FCPS) at 191 South East Street, Frederick, MD 21701, prior to and time stamped no later than 10:00 a.m. local time, February 20, 2019. Bids received after this time will be returned unopened. All bids will be opened and read aloud in the Central Office Board Room.

Bids for Construction Stage II - Phase B: 9B Tile; 9C Fluid Applied & Terrazzo Flooring (Terrazzo as an Alternate); 9D Resilient Flooring and Rubber Athletic Surfacing; 9E Painting; 11A Food Service; 11B Athletic Equipment; will be received and time stamped in the main lobby of Frederick County Public Schools (FCPS) at 191 South East Street, Frederick, MD 21701, prior to and time stamped no later than 1:30 p.m. local time, February 20, 2019. Bids received after this time will be returned unopened. All bids will be opened and read aloud in the Central Office Board Room.

Contract Manager: Kim Miskell, CSBO, Assistant Purchasing Manager, kim.miskell@fcps.org
FCPS Project Manager: Brad Ahalt, Senior Project Manager bradley.ahalt@fcps.org
Construction Manager: Dave Toth, Oak Contracting, LLC dtoth@oakcontracting.com
Don Porter, Grimm & Parker dporter@gparch.com

For information pertinent to the bidding process, the attention of all contractors, subcontractors and material supply bidders are directed to the:

- Invitation to Bid (Page 11-12)
- Instruction to Bidders (AIA Document A701) (Pages 24-31)
- Supplemental Instructions to Bidders (Supplement to AIA A701) (Pages 32-44)
- Proposal Form and Signature Page, Prevailing Wage (Pages 210-216)
- General Conditions and Supplementary Conditions of the Contract for Construction (AIA Document A232/CMA) (Pages 253-324)

Certified Minority Business Enterprises are encouraged to respond to this solicitation notice. The contractor or supplier who provides materials, supplies, equipment and/or services for this construction project shall attempt to achieve the specific MBE goal for each contract package listed below. All prime contractors, including certified MBE firms, when submitting bids or proposals as general or prime contractors, are required to attempt to achieve this goal from certified MBE firms.

Bids are being requested for the following contract packages:

2A Site Package Geo Thermal (10% MBE Goal)
3A Concrete (2% MBE Goal)
4A Masonry (2% MBE Goal)
5A Steel (2% MBE Goal)
6A General Carpentry (5% MBE Goal)
7A Roofing (10% MBE Goal)
8A Windows & Storefront (5% MBE Goal)
9A Drywall & Acoustical (10% MBE Goal)
9B Tile (2% MBE Goal)
9C Fluid Applied & Terrazzo Flooring {Terrazzo as an Alternate} (2% MBE Goal)
9D Resilient Flooring & Rubber Athletic Surfacing (5% MBE Goal)
9E Painting (7% MBE Goal)
11A Food Service Equipment (0% MBE Goal)
11B Athletic Equipment (0% MBE Goal)
15A Mechanical (10% MBE Goal)
16A Electrical (10% MBE Goal)

MBE Reminders:

- Please remember that prior to and up to 10 days before the bid opening, contractors must solicit minority business enterprise through written notice.
- If you are advertising in the paper or sending written solicitations via fax, please make sure you are keeping a detailed log of your efforts. Should you not receive any responses to your advertisement/written notices you need to make personal contact with those companies you solicited and keep detailed records of who you spoke to, their address, telephone number and dates that you contacted them.

This project will be bid with Prevailing Wage Rates.

01.18.19 Pre-Bid Meeting Notes Bid 19C4, Urbana Elementary School Replacement – Construction Stage II

In the event of inclement weather on the date when the bids are scheduled to be opened and the FCPS administrative offices are closed, bids will be opened on the next business day at the same time as previously scheduled. Often when schools are closed the administrative offices are open – when in doubt please call the purchasing department.

Please make sure that your bid submission includes the following:

- All applicable areas of the bid form of proposal are filled in carefully, completely and signed.
- Acknowledge the receipt of each and every Addendum on the Bid Form of Proposals.
- Submit one (1) original and one (1) copy of Bid Form of Proposals.
- Base bid and alternate bid prices must be submitted as a numeric value and must be written in words.
- Bid bond or cashier's check for 5% of the total bid amount is included.
- Properly completed Statutory Affidavit and Non-Collusion Certification Form.
- Certificate of Compliance Form completed and signed.

Should any bidder find discrepancies in, or omissions from, the drawings and other contract documents need to request clarification in writing. All necessary interpretations will be issued to all bidders in the form of addenda.

Directed to: Kim Miskell, CSBO, Assistant Purchasing Manager at: kim.miskell@fcps.org with a copy to Brad Ahalt, Senior Project Manager at: bradley.ahalt@fcps.org and Dave Toth, Oak Contracting, LLC dtoth@oakcontracting.com

No written requests received within seven (7) calendar days prior to the bid due date will be considered and no addenda will be issued later than four (4) calendar days prior to the bid opening date. (4:00 p.m., local time, Questions Due: February 7, 2019 - Addenda issued)

Laws and Regulations:

The vendor will comply with all Federal, State, and local laws, ordinances and regulations pertaining to work under their charge. If the vendor performs any work which it knows or should know to be contrary to such laws, ordinance, and regulations and without such notices to FCPS they shall bear all costs arising therefrom.

All vendors and subcontractors must abide by the Board of Education of Frederick County policies and FCPS regulations while working on school property.

It is the contractor's responsibility to ensure that no individuals who are registered sex offenders are working on this project. This also applies to subcontractors and materials/equipment supplies as well. For projects lasting longer than a few months, the contractor shall periodically re-check the names of workers against the Maryland Sex Offender's Registry to ensure ongoing compliance.

Additionally, individuals that have been convicted of a crime of violence under §3-307 and §3-308 of the Criminal Law Article are not eligible to work on any FCPS project.

The use of tobacco and alcohol beverages in any form is prohibited on FCPS property at all times, all year.

No person shall carry or possess any rifle, gun, knife, or deadly weapon of any kind on FCPS property.

Award of the contract is contingent upon the award of full funding for this project.

Tentative Board Award: BOE Work Session, scheduled on: March 13, 2019 for Construction Phase A Contract and June 26, 2019 for Construction Phase B Contract.

Liquidated Damages will be assessed at \$725.00 per day for each calendar day required to achieve substantial completion beyond the substantial completion dated authorized by the contract.

Anticipated construction will commence on or around April 1, 2019

Substantial Completion shall be achieved by June 30, 2020

Frederick County Public Schools
Purchasing Department
PRE-BID MEETING ATTENDANCE ROSTER

BID 19C4, URBANA ELEMENTARY SCHOOL REPLACEMENT - CONSTRUCTION STAGE II

MEETING DATE/TIME: JANUARY 18, 2019 @ 10:00 A.M. {BOARD ROOM}

NAME (PLEASE PRINT)	FIRM REPRESENTED (PLEASE PRINT)	PHONE NUMBER	FAX NUMBER	E-MAIL ADDRESS
JOE IADAROLA	Co. Name: COOPER BUILDING SERVICES Address: 7450 NEW TECHNOLOGY WAY FREDERICK MD 21703	202-834-4260		jiadarola@cooper-inc.com
BRAD SMITH	Co. Name: Brewer & Company Address: 1221 Hedgeville Road MOUNTAIN VIEW WV	301-401-5489	301-262-8107	brad.smith@brewer-fac.com
Tim Nelling	Co. Name: High Performance Cable Address: 13126 PENNA AVE HAGERSTOWN	301-739-8989	301-797-4545	TNelling@HPCabling.com
Mike Felix	Co. Name: Ellsworth Electric, Inc. Address: 88 West Lee Street Hagerstown, MD 21740	301-739-8600	301-739-8360	mefelix@ellsworthelectric.net
David Houck	Co. Name: David H. Martin Excavating Inc Address: 4941 Cumberland Hwy Chenabrook PA 17222	717-264-2168	717-264-4168	Dhouck@dhmexc.com
JOE ROBERTS	Co. Name: ELECTRIC INC Address: 1306 KAYUET RD BALTIMORE MD 21204	410-345-1824		JROBERTS@ELECTRIC.NET
DAVID SHANAHAN	Co. Name: DENVER ELEK Address: 3860 KELSO DRIVE BALTIMORE 21221	410-574-5400		dshahan@denver-elek.com
Kathy Abrecht	Co. Name: Kuehn & Harris Address: 217-A Monrovia Ave FRED MD	301-663-6670		kuehn.k.abcrcut@kuehn-harris.com
Dennis Torres	Co. Name: Dennis Torres Address: 7914 Chalice Rd Severn MD 21144	240-485-8228		deltorrescontractor@gmail.com
ALAN SHEPARD	Co. Name: JOHNSON CONTROLS Address: 60 LEXINGTON CR SPARKS 2052	410-456-2399		ALAN.G.SHEPARD@JCI.COM
BRETT SWEENEY	Co. Name: Allied Well Drilling Address: P.O. Box 124 ANNAPOLIS JUNCTION MD	301-776-8370	301-776-8374	BRETTSWEENEY@ALLIEDWELLS.COM

Frederick County Public Schools
Purchasing Department
PRE-BID MEETING ATTENDANCE ROSTER

BID 19C4, URBANA ELEMENTARY SCHOOL REPLACEMENT - CONSTRUCTION STAGE II

MEETING DATE/TIME: JANUARY 18, 2019 @ 10:00 A.M. {BOARD ROOM}

NAME (PLEASE PRINT)	FIRM REPRESENTED (PLEASE PRINT)	PHONE NUMBER	FAX NUMBER	E-MAIL ADDRESS
Tom Krenitsky	Co. Name: GRC GENERAL CONTR Address: 3289 WINGASLE ROAD ZULINGER PA 17272	717.762 1116	717 762 6582	tom@grcgregc.com
Anthony Kukowski	Co. Name: OAK CONTRACTING Address:	410 977 4598		akukowski@OAKCONTRACTING.COM
DAVE Teth	Co. Name: OAK CONTRACTING Address:	443-506-7532		dave@oakcontracting.com
MATT Sullivan	Co. Name: CTSI Address:	443-741 3042	410-583 8535	msullivan@CTSI-USA.com
STEVE KRELL	Co. Name: OAK CONTRACTING Address:	410-828-1000		SKRELL@OAKCONTRACTING.COM
Nate Giordano	Co. Name: Oak Contracting Address:	410-828-1000		Ngiordano@oakcontracting.com
DAVE DOLBOW	Co. Name: WARNER MECHANICAL Address:	301-662-5387		DDOLBOW@WARNER-MECHANICAL.COM
TODD GESS	Co. Name: CALLAS CONTRACTORS, INC Address:	301-739-8400	301-739-7065	tgess@callascontractors.com
Andrew Campbell	Co. Name: Callas Contractors Address:	301-739-8400	301-739-7065	acampbell@callascontractors.com
John Martin	Co. Name: Detwiler Address:	717-200-4000		info@detwilerroofing.com
MIKE SEEBOLD	Co. Name: WFKLINGENSMITH Address:	301 699 6070		MIKES@WFKLINGENSMITH.COM

Frederick County Public Schools
Purchasing Department
PRE-BID MEETING ATTENDANCE ROSTER

BID 19C4, URBANA ELEMENTARY SCHOOL REPLACEMENT - CONSTRUCTION STAGE II

MEETING DATE/TIME: JANUARY 18, 2019 @ 10:00 A.M. {BOARD ROOM}

NAME (PLEASE PRINT)	FIRM REPRESENTED (PLEASE PRINT)	PHONE NUMBER	FAX NUMBER	E-MAIL ADDRESS
DANNY VAN GOSSEN	Co. Name: Waynesboro Const. Co. Inc. Address: 7101 Guilford Dr. Suite 303 Frederick, MD 21704	301-662-1150 Ext. 110	301-694-3017	bidm@waynesboroconstruction.com
LARRY SHODDS	Co. Name: MYCO MECHANICAL Address: . INC	267-372-0985		LSHODDS@MYCO MECHANICAL.COM
LILIAN CASH/LO	Co. Name: Least/LO @ workplace group Address: 1700 Venetian Rd Wilmington, DE 19805 Workzone general contractor	301-758-2885		Least/LO@workplace- group.com
DON PORTER	Co. Name: GRIMM + PARKER Address:	301-595-1000		DPORTER@GPARCH.COM
BRAD AHAIT	Co. Name: Address: FCPS	301-644-5161		Bradley.Ahait@fcps.org
KIM MISKEIL	Co. Name: Address: FCPS	301-644-5208		Kim.Miskell@fcps.org
	Co. Name: Address:			
	Co. Name: Address:			
	Co. Name: Address:			
	Co. Name: Address:			
	Co. Name: Address:			