



Architectural  
Services

130 Regional Park Drive  
Kingsport, TN 37660  
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www.grcinc.com

# ADDENDUM ONE

Project: **West Ridge High School Team Room Building**

Address: **380 Lynn Rd, Blountville, TN**

May 20, 2022

This Addendum is part of the Contract Documents for the above referenced project and modifies the original drawings and/or specifications, dated **4/29/22**, as noted below. The bidder shall acknowledge receipt of this Addendum in the place provided in the Bid Form. The published bid date and time shall remain the same.

## GENERAL:

1. Please see attached Pre-Bid Attendance Record.
2. TFM number is assigned: 19310, TNSFM Project #2022-05-03-01. TNSFMO will issue a “No review” Letter so there will be no additional requirements.
3. Per the requirements of ESSER 2.0 funding, the project shall be completed by June 30, 2023.

## DRAWINGS:

1. **Sheet G-10 Life Safety Plans** – See revised building data information.
2. **Sheet A-10 Floor Plan Base Bid** – Clarification: Concrete sidewalk shall abut existing concrete sidewalk as shown on attached A-10 revised detail.
3. **Sheet A-10 Floor Plans**- Clarification: Finish Floor shall equal the finish floor of the adjacent existing baseball building.
4. **Sheet A-10 Floor Plans**- Clarification: Added wall types.
5. **Sheet A-21 Exterior Elevations** – Clarification: Where colored accent courses occur smooth face CMU shall be used to match existing.
6. **Sheet A-21 Exterior Finish Schedule** – Clarification: Mortar shall be all one standard color. Split Face CMU shall be painted to match existing baseball building including accent stripes.
7. **Sheet A-31 and A-32 Building Sections**- Add closed cell spray foam insulation in CMU walls. Equal to Carlisle Sealtite pro.
8. **Sheet A-50 Detail B** – Clarification: This detail applies where the pavilion roof connects to the main building. Note: Regular smooth face CMU may be used above the soffit line where they are not exposed to view.
9. **Sheet A-50 Detail C** – Note: This detail no longer applies.
10. **Sheet A-60 Detail 5** – Clarification: Bullnose block is not required at window sills and door jambs. Regular split face CMU may be used in all applications.

## SPECIFICATIONS:

1. **Section 042000 – Unit Masonry**, 2.2 and 2.3. Normal weight Split Face CMU Units with Integral Water Repellent complying with ASTM C90 and C129 are acceptable. General Shale Brick, Inc. is

an acceptable manufacturer. Items associated with brick such as weepholes, cavity vents, cavity drainage material and masonry veneer anchors, etc. are not required.

2. **Section 071113 – Bituminous Damp proofing** - Clarification: Specification section is not required.
3. **Section 083613 – Overhead Sectional Doors** – Add this specification. See attached.
4. **Section 104400 – Fire Protection Specialties** - Clarification: Fire extinguisher cabinet not required, provide bracket for wall hung fire extinguisher.

Attachments:

1. Pre-bid attendance record for West Ridge High School Team Room Building Pre-bid.
2. Sheet G-10 Life Safety Plan
3. Sheet A-10 Floor Plan
4. Sheet A-31 Building Sections
5. Sheet A-32 Building Sections
6. Sheet A-50 Section Details
7. Section 083613 – Overhead Sectional Doors

**END OF ADDENDUM 1**

OFFICE OF THE SULLIVAN COUNTY PURCHASING AGENT

3411 HIGHWAY 126-SUITE 201

BLOUNTVILLE, TN 37617-0569

KRISTINIA DAVIS  
PURCHASING AGENT

PHONE 423-323-6400  
FAX 423-323-7249  
kris.davis@sullivancountytn.gov

ATTENDANCE RECORD

DATE: 5-12-22 TIME: 10:00

PROJECT DESCRIPTION: West Ridge High School Team Room Building - Pre-bid Conference

LOCATION (CHECK ONE):

- PURCHASING CONFERENCE ROOM
- DOWNSTAIRS CONFERENCE ROOM
- COUNTY COMMISSION ROOM
- OTHER West Ridge

YOUR NAME	COMPANY / AGENCY	PHONE NUMBER	EMAIL ADDRESS
<u>Kevin Johnson</u>	<u>HVAC Inc.</u>	<u>423-361-2290</u>	<u>Kjohnsonhvac-inc.com</u>
<u>Ben McMurray</u> <u>Leland Leonard</u>	<u>Armstrong</u>	<u>423-240-6135</u>	<u>Ben@armstrong-construction.com</u>
<u>Bill Beuris</u>	<u>BEURIS Const.</u>	<u>423-767-4587</u>	<u>bill@beuris.com</u>
<u>Dineen West</u>	<u>Cain Rash West Architects</u>	<u>423-349-7760</u>	<u>dineen@grcinc.com</u>

# Building Data

**APPLICABLE CODES**  
 NFPA 101 LIFE SAFETY CODE (2012 EDITION)  
 ICC INTERNATIONAL BUILDING CODE (IBC - 2012 EDITION)  
 EXCEPT FOR: CHAPTER 11 ACCESSIBILITY AND CHAPTER 34, SECTION 3411 ACCESSIBILITY FOR EXISTING BUILDINGS  
 ICC INTERNATIONAL FUEL GAS CODE (IFGC - 2012 EDITION)  
 ICC INTERNATIONAL MECHANICAL CODE (IMC - 2012 EDITION)  
 ICC INTERNATIONAL PLUMBING CODE (IPC - 2012 EDITION)  
 ICC INTERNATIONAL FIRE CODE (IFC - 2012 EDITION)  
 ICC INTERNATIONAL ENERGY CONSERVATION CODE (IECC - 2012 EDITION)  
 ICC INTERNATIONAL EXISTING BUILDING CODE (IEBC - 2012 EDITION)  
 NEC 70 NATIONAL ELECTRIC CODE (2017 EDITION)  
 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN  
 (\*NOTE: IN INSTANCES WHERE THE SPECIFIC REQUIREMENTS OF ICC AND NFPA 101 DIFFER, THE MORE STRINGENT OF THE TWO CODES SHALL APPLY.)

**OCCUPANCY**  
 MIXED (NON-SEPARATED)  
 ASSEMBLY - GROUP A-3  
 305.1 - ASSEMBLY USES INTENDED FOR WORSHIP, RECREATION OR AMUSEMENT AND OTHER ASSEMBLY USES NOT CLASSIFIED ELSEWHERE IN GROUP A INCLUDING, BUT NOT LIMITED TO: COMMUNITY HALLS, GYMNASIUMS WITHOUT SPECTATOR SEATING.  
**EDUCATIONAL - GROUP E**  
 305.1 - THE USE OF A BUILDING OR STRUCTURE, OR A PORTION THEREOF, BY SIX OR MORE PERSONS AT ANY ONE TIME FOR EDUCATIONAL PURPOSES THROUGH THE 12TH GRADE.  
 TABLE 1004.1.2 (MAXIMUM FLOOR AREA ALLOWANCES PER OCCUPANT)  
**EDUCATIONAL**  
 CLASSROOM AREA = 20 S.F. PER OCCUPANT (NET)  
 ASSEMBLY WITHOUT FIXED SEATS  
 UNCONCENTRATED = 15 S.F. PER OCCUPANT (NET)  
 CONCENTRATED (CHAIRS ONLY - NOT FIXED) = 7 S.F. PER OCCUPANT (NET)  
 EXERCISE ROOM = 50 S.F. PER OCCUPANT (GROSS)  
 ACCESSORY STORAGE AREAS = 300 S.F. PER OCCUPANT (GROSS)  
 MECHANICAL EQUIPMENT ROOMS = 300 S.F. PER OCCUPANT (GROSS)

**OCCUPANT LOAD**  
 TEAM ROOM / EXERCISE ROOM - 54 OCCUPANTS  
 (NOTE: OCCUPANT LOAD NOTED DEPICTS PLANNED USAGE OF SPACE BY BALL TEAM MEMBERS AND COACHING STAFF.)

**CONSTRUCTION TYPE**  
 TYPE II B, NON-SPRINKLERED  
 STRUCTURE - LOAD BEARING MASONRY WITH METAL TRUSSES  
 EXTERIOR - CMU  
 INTERIOR - CMU  
 FLOORS - CONCRETE SLAB ON GRADE  
 ROOF - STANDING SEAM METAL PANELS

**GENERAL BUILDING LIMITATIONS**  
 TABLE 503 - TYPE II B (UNPROTECTED), NON-SPRINKLERED, ONE STORY (GROUP A-3)  
 ALLOWABLE AREA = 9,500 S.F. PER FLOOR\*  
 (\*AREA INCREASE PERMITTED BY 506.2 HAS NOT BEEN CALCULATED AS IT IS NOT REQUIRED FOR THE BUILDING TO BE IN COMPLIANCE WITH THE CODE AS PUBLISHED.)  
 TOTAL GROSS FLOOR AREA - 2,598 S.F.  
 TOTAL AGGREGATE FLOOR AREA - 4,145 S.F. (5,378 S.F. WITH ALTERNATE 1)  
 ALLOWABLE HEIGHT = 55 FT. (2 STORY MAXIMUM)  
 TOTAL BUILDING HEIGHT = 25'-2 1/2"

508.3 - NONSEPARATED OCCUPANCIES  
 BUILDINGS OR PORTIONS OF BUILDINGS THAT COMPLY WITH THE PROVISIONS OF THIS SECTION SHALL BE CONSIDERED AS NONSEPARATED OCCUPANCIES.  
 PER COMMENTARY: THE PRINCIPLE BEHIND NONSEPARATED OCCUPANCIES IS THAT THE DIFFERENT OCCUPANCIES WITHIN THE SAME BUILDING DO NOT HAVE TO BE SEPARATED BY FIRE-RESISTANCE RATED ASSEMBLIES IF THE BUILDING COMPLIES WITH THE MORE RESTRICTIVE CODE REQUIREMENTS FOR MINIMUM CONSTRUCTION TYPE AND FIRE PROTECTION SYSTEMS APPLICABLE TO THE OCCUPANCIES IN THE BUILDING. (IN THIS CASE, GROUP A-3)

**FIRE RESISTANCE**  
 TABLE 601 - FIRE-RESISTANCE RATING REQUIREMENTS FOR BUILDING ELEMENTS  
 TYPE II B, NON-SPRINKLERED - RATING NOT REQUIRED  
 TABLE 602 - FIRE-RESISTANCE RATING REQUIREMENTS FOR EXTERIOR WALLS  
 BASED ON FIRE SEPARATION DISTANCE  
 GROUP A AND GROUP E  
 SEPARATION DISTANCE LESS THAN OR EQUAL TO 10 FEET  
 1-HOUR FIRE RESISTANCE RATING REQUIRED\*\*

**FIRE AND SMOKE PROTECTION**  
 \*\* 705.3 - BUILDINGS ON THE SAME LOT  
 FOR THE PURPOSES OF DETERMINING THE REQUIRED WALL AND OPENING PROTECTION, PROJECTIONS AND ROOF-COVERING REQUIREMENTS, BUILDINGS ON THE SAME LOT SHALL BE ASSUMED TO HAVE AN IMAGINARY LINE BETWEEN THEM.  
 FOR THE PURPOSES OF DETERMINING THE REQUIRED WALL AND OPENING PROTECTION, EXCEPTION:

TWO OR MORE BUILDINGS ON THE SAME LOT SHALL EITHER BE REGULATED AS SEPARATE BUILDINGS OR SHALL BE CONSIDERED AS PORTIONS OF ONE BUILDING IF THE AGGREGATE AREA OF SUCH BUILDINGS IS WITHIN THE LIMITS SPECIFIED IN CHAPTER 5 FOR A SINGLE BUILDING. WHERE BUILDINGS CONTAIN DIFFERENT OCCUPANCY GROUPS OR ARE OF DIFFERENT TYPES OF CONSTRUCTION, THE AREA SHALL BE THAT ALLOWED FOR THE MOST RESTRICTIVE OCCUPANCY OR CONSTRUCTION.  
 (THE EXCEPTION PERMITS TWO BUILDINGS ON THE SAME LOT TO BE EXEMPT FROM SECTIONS 705.5 AND 705.8 WHEN CONSIDERED AS ONE BUILDING IN ACCORDANCE WITH SECTION 503.1.2.)

\*\* 705.8.5 - VERTICAL SEPARATION OF OPENINGS  
 OPENINGS IN EXTERIOR WALLS IN ADJACENT STORIES SHALL BE SEPARATED VERTICALLY TO PROTECT AGAINST FIRE SPREAD ON THE EXTERIOR OF THE BUILDINGS WHE THE OPENINGS ARE WITHIN 5 FEET OF EACH OTHER HORIZONTALLY AND THE OPENING IN THE LOWER STORY IS NOT A PROTECTED OPENING WITH A FIRE PROTECTION RATING OF NOT LESS THAN 3/4 HOUR.  
 EXCEPTION  
 THIS SECTION SHALL NOT APPLY TO BUILDINGS THAT ARE THREE STORIES OR LESS ABOVE GRADE PLANE.

**FIRE PROTECTION**  
 906.1 - PORTABLE FIRE EXTINGUISHERS SHALL BE PROVIDED AS REQUIRED BY THE FIRE CODE AND BY THE AUTHORITY HAVING JURISDICTION

907.2.1 - A MANUAL FIRE ALARM SYSTEM THAT ACTIVATES THE OCCUPANT NOTIFICATION SYSTEM IN ACCORDANCE WITH SECTION 907.5 SHALL BE INSTALLED IN GROUP A OCCUPANCIES WHERE THE OCCUPANT LOAD DUE TO THE ASSEMBLY OCCUPANCY IS 300 OR MORE. PORTIONS OF GROUP E OCCUPANCIES OCCUPIED FOR ASSEMBLY PURPOSES SHALL BE PROVIDED WITH A FIRE ALARM SYSTEM AS REQUIRED FOR GROUP E OCCUPANCIES.

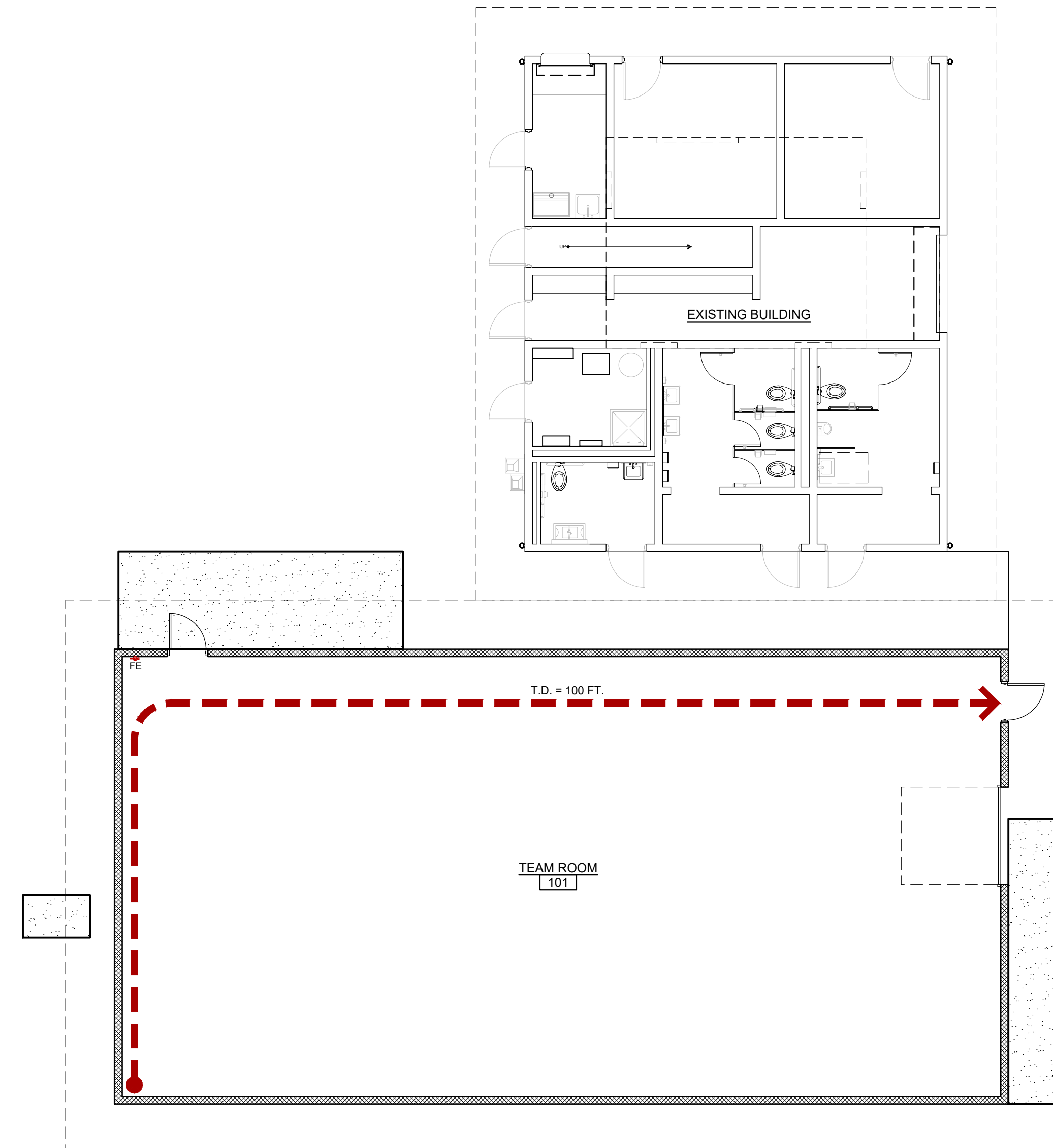
907.2.3 - A MANUAL FIRE ALARM SYSTEM THAT INITIATES THE OCCUPANT NOTIFICATION SIGNAL UTILIZING AN EMERGENCY VOICE / ALARM COMMUNICATION SYSTEM MEETING THE REQUIREMENTS OF SECTION 907.5.2.2 AND INSTALLED IN ACCORDANCE WITH SECTION 907.5 SHALL BE INSTALLED IN GROUP E OCCUPANCIES. WHEN AUTOMATIC SPRINKLER SYSTEMS OR SMOKE DETECTORS ARE INSTALLED, SUCH SYSTEMS OR DETECTORS SHALL BE CONNECTED TO THE BUILDING FIRE ALARM SYSTEM.  
 EXCEPTION  
 A MANUAL FIRE ALARM SYSTEM IS NOT REQUIRED IN GROUP E OCCUPANCIES WITH AN OCCUPANT LOAD OF 30 OR LESS.

**INTERIOR FINISHES**  
 TABLE 803.9 - INTERIOR FINISHES FOR GROUP A-3, NON-SPRINKLERED FACILITIES, SHALL BE MIN. CLASS "A" MATERIALS AT ALL INTERIOR EXIT STAIRWAYS, INTERIOR EXIT RAMPS, AND EXIT PASSAGEWAYS. CORRIDORS AND ENCLOSURES FOR EXIT ACCESS STAIRWAYS OR RAMPS SHALL BE CLASS "A" MATERIALS. LOBBY AREAS SHALL BE NOT LESS THAN CLASS "B" MATERIALS. ALL OTHER ROOMS OR ENCLOSED SPACES MAY BE CLASS "C" MATERIALS.  
 (CLASS "A" = FLAMESPREAD 0-25, SMOKE 0-450)  
 (CLASS "B" = FLAMESPREAD 26-75, SMOKE 0-450)  
 (CLASS "C" = FLAMESPREAD 76-200, SMOKE 0-450)  
 NFPA 101 (10.2.7.4) - INTERIOR FLOOR FINISHES  
 CLASS II INTERIOR FLOOR FINISH - CRITICAL RADIANT FLUX NOT LESS THAN 0.22 W/cm<sup>2</sup> BUT LESS THAN 0.45 W/cm<sup>2</sup> AS DETERMINED BY THE TEST DESCRIBED IN NFPA 101 (10.2.7.3).

**EGRESS**  
 12.2.3.8 (NFPA 101, LIFE SAFETY CODE) - EXIT ACCESS CORRIDORS SERVING 50 OR MORE PERSONS SHALL HAVE NOT LESS THAN 44 INCHES OF CLEAR WIDTH  
 12.2.5.1.3 (NFPA 101, LIFE SAFETY CODE) - DEAD END CORRIDOR LENGTH SHALL NOT EXCEED 20 FEET.  
 12.2.6.2 (NFPA 101, LIFE SAFETY CODE) - TRAVEL DISTANCE TO AN EXIT SHALL NOT EXCEED 200 FEET IN ASSEMBLY OCCUPANCIES WHICH ARE NON-SPRINKLERED.  
 1008.1.2 - DOORS SHALL SWING IN THE DIRECTION OF EGRESS TRAVEL WHERE SERVING A ROOM OR AREA CONTAINING AN OCCUPANT LOAD OF 50 OR MORE PERSONS  
 1008.1.10 - (IN PART) DOORS SERVING ROOMS OR SPACES WITH AN OCCUPANT LOAD OF 50 OR MORE IN A GROUP "A" OCCUPANCY SHALL NOT BE PROVIDED WITH A LATCH OR LOCK UNLESS IT IS PANIC HARDWARE OR FIRE EXIT HARDWARE.

# LEGEND

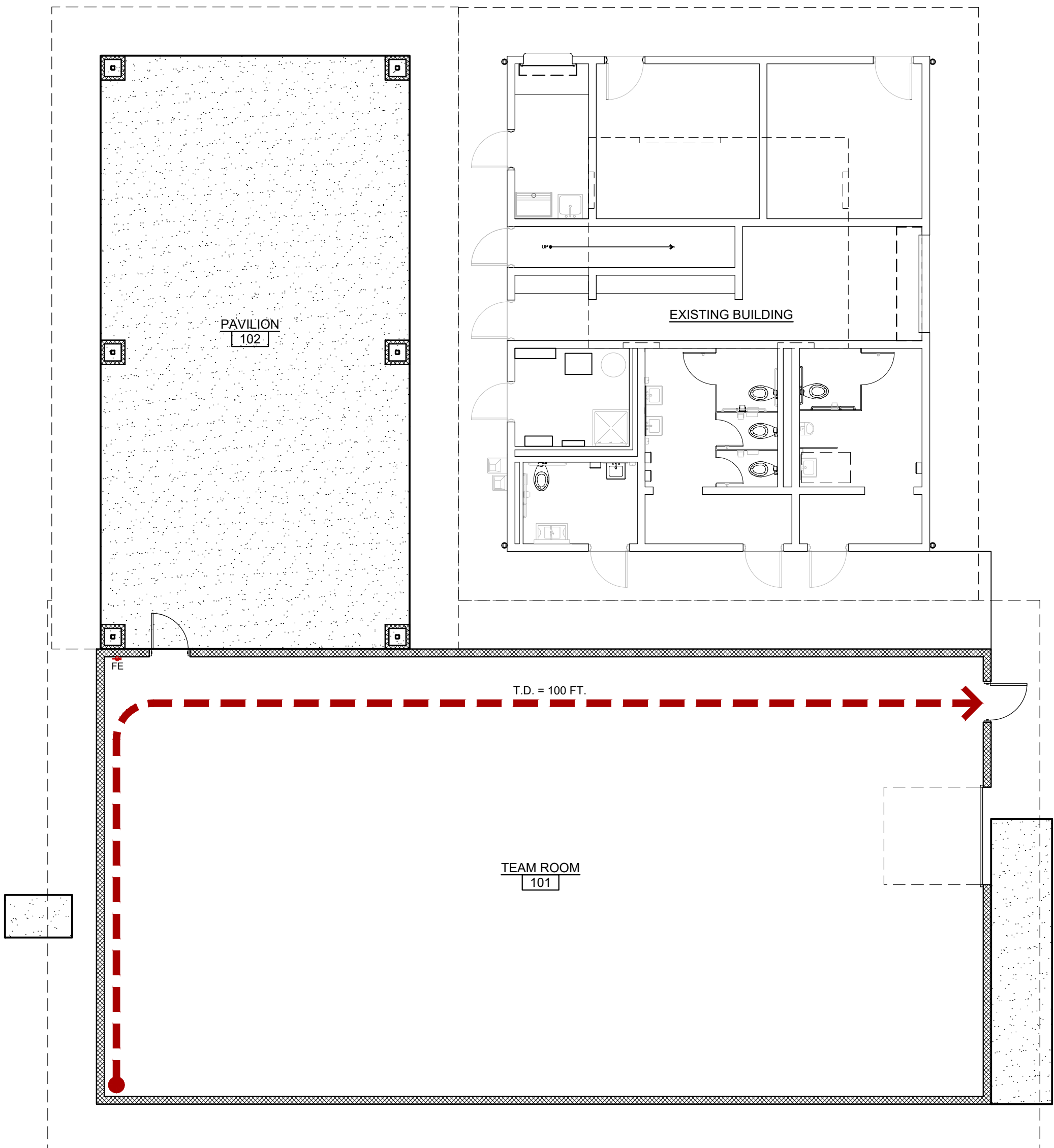
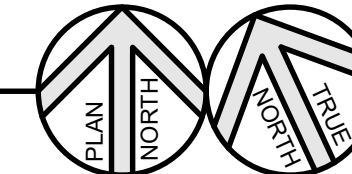
EXISTING WALL CONSTRUCTION TO REMAIN  
 NEW WALL CONSTRUCTION  
 FIRE EXTINGUISHER  
 T.D. = 100 FT. TRAVEL DISTANCE TO EXIT  
 (NOTE: TRAVEL DISTANCES INDICATED ON PLAN HAVE BEEN ROUNDED UP TO THE NEAREST WHOLE FOOT.)



## LIFE SAFETY PLAN - BASE BID

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

BLD. AREA: 2,598 SQFT

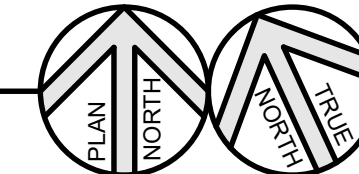


## LIFE SAFETY PLAN - BID ALTERNATE

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

BLD. AREA: 2,598 SQFT

PAVILION AREA: 1,233 SQFT



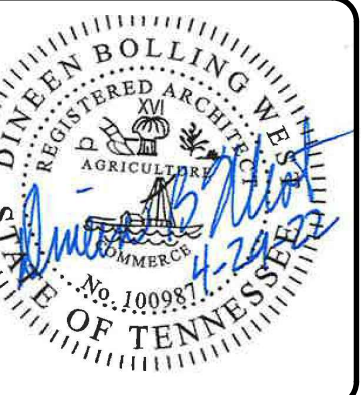
SULLIVAN COUNTY SCHOOLS  
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no.	date	rev. description
1	5-19-22	REVISED BLDG DATA FOR GROUP A-3 PER FIRE MARSHAL COMMENTS



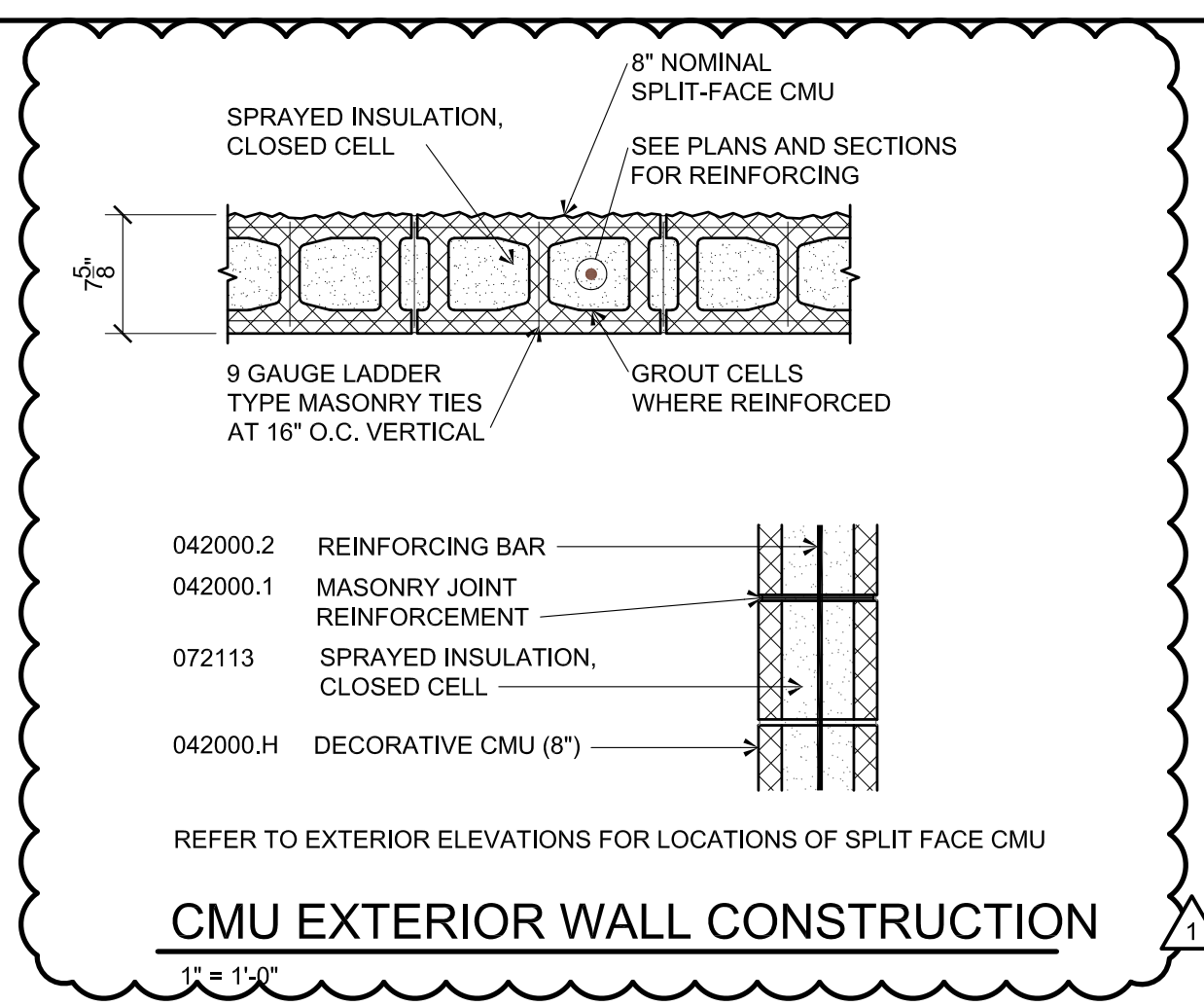
issued	04-29-2022
checked	DW
drawn	RL
project no.	202195

LIFE SAFETY PLANS

G-10

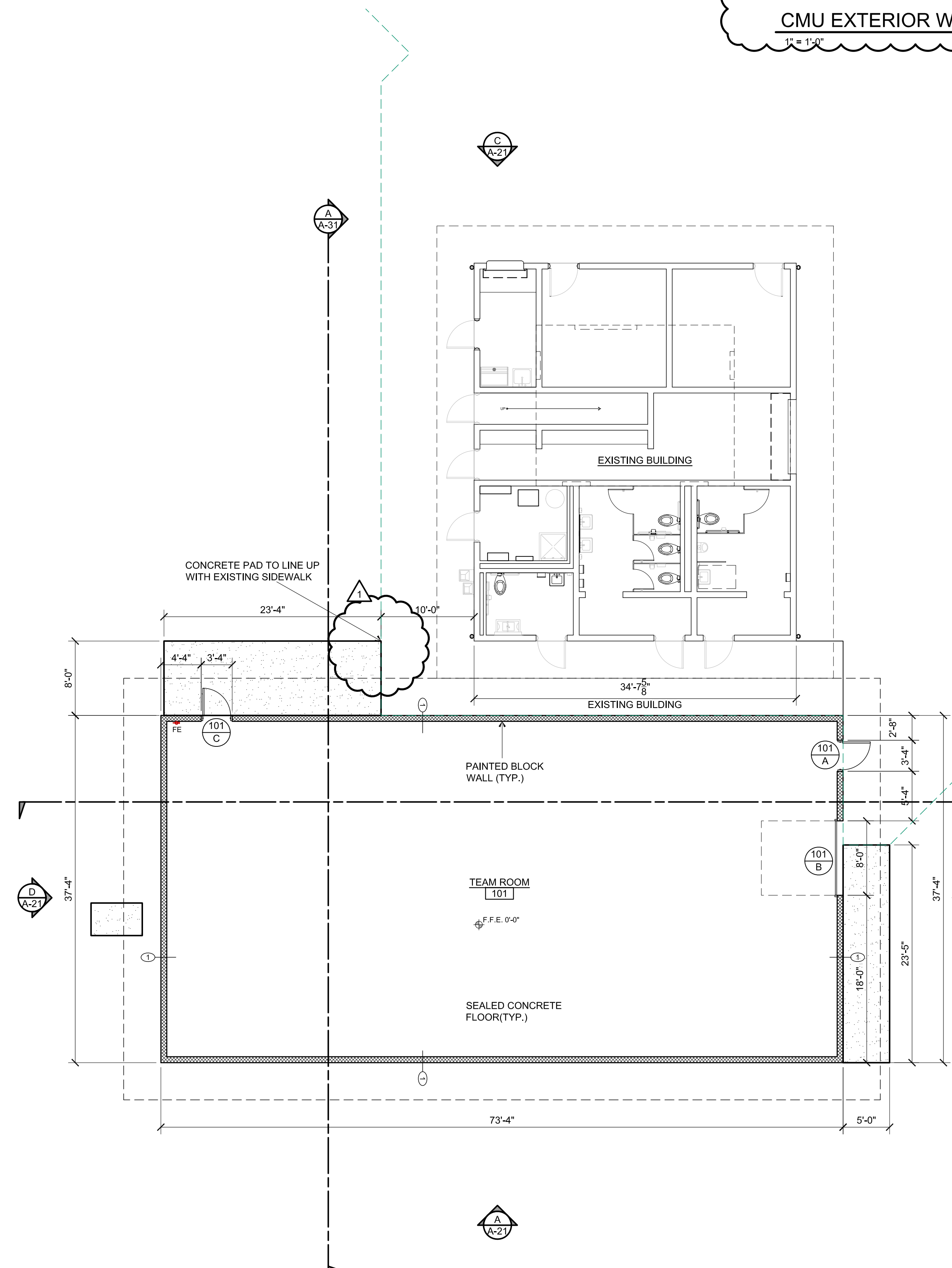


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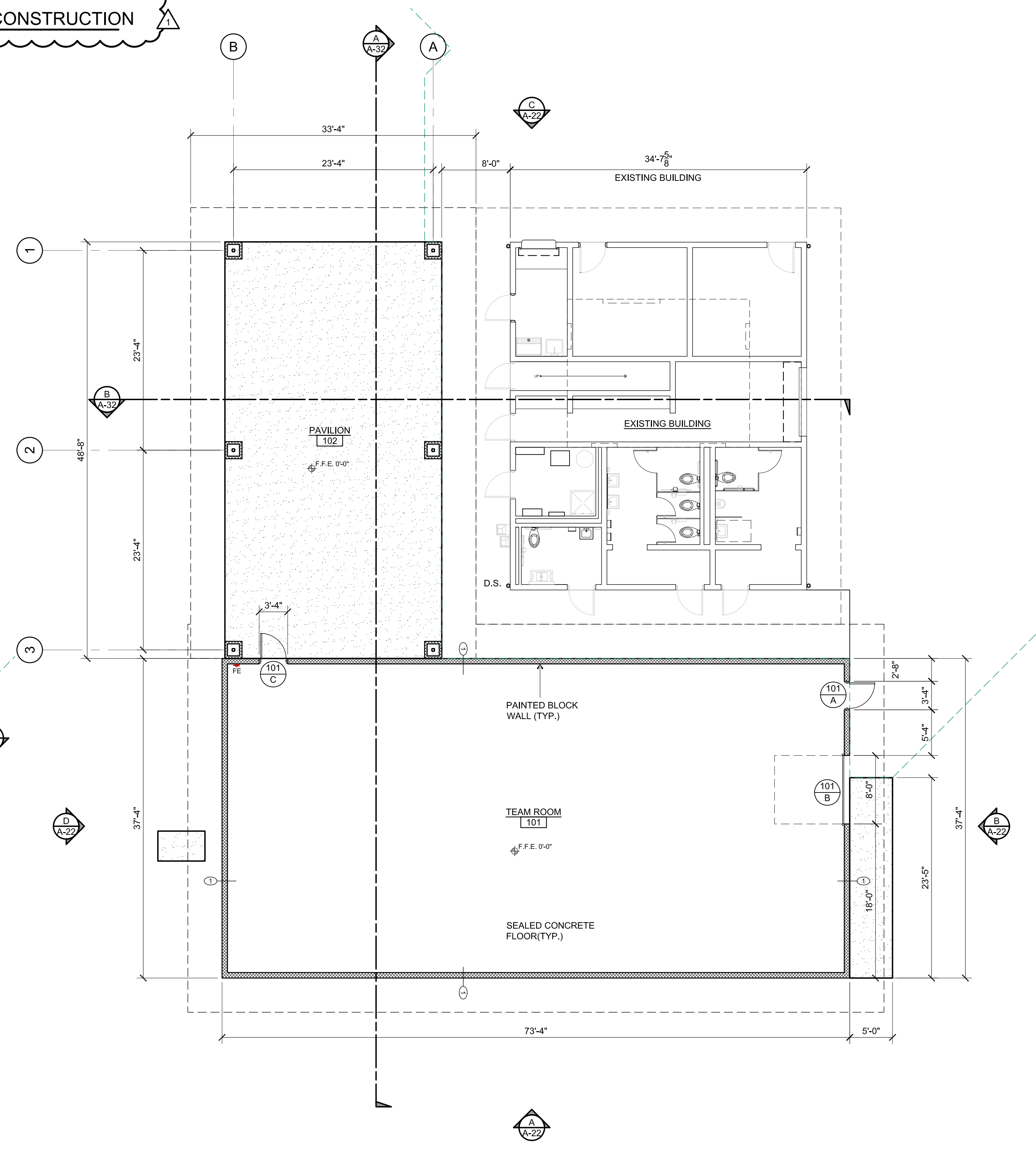


- ### SYMBOL LEGEND
- ALL FIREWALLS AND FIRE-RATED WALLS SHALL BE PERMANENTLY IDENTIFIED ON BOTH SIDES WITH SIGNS OR STENCILING ABOVE DECORATIVE CEILINGS AND IN OTHER CONCEALED AREAS. SUGGESTED WORDING: "(X) HOUR FIRE AND SMOKE BARRIER PROTECT ALL OPENINGS. FIRE WALLS ARE NOT TO BE USED FOR THE SUPPORT OF STRUCTURE. IN LOCATIONS WITHOUT CEILINGS, PROVIDE WORDING ON PERMANENTLY FIXED SIGNS. REFER TO A-SG-1.
  - (A) WINDOW SYSTEM
  - (201A) DOOR, SEE DOOR SCHEDULE ON SHEET A-60
  - (FE) 104400.H FIRE EXTINGUISHER AND BRACKET
  - CJ CONTROL JOINT
  - DS DOWNSPOUT
  - FD FLOOR DRAIN OR FLOOR SINK (SEE PLUMBING DRAWINGS)
  - (DF) DRINKING FOUNTAIN
  - (T) SPLIT FACE 8" CMU

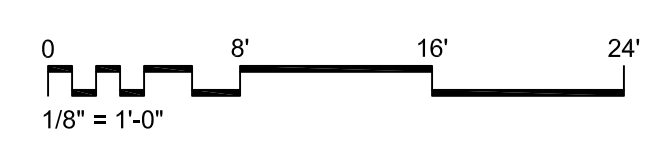
- ### GENERAL NOTES
- A. EXTERIOR WALL DIMENSIONS ARE TO THE FACE OF CMU, U.N.O.
  - B. INTERIOR WALL DIMENSIONS ARE TO FACE OF CMU, U.N.O.
  - C. LOCATE DOOR OPENINGS 8" FROM NEAREST PERPENDICULAR WALL, U.N.O.
  - D. AT INTERIOR MASONRY PARTITIONS, PROVIDE BULLNOSE MASONRY UNITS FOR OUTSIDE VERTICAL CORNERS AND HORIZONTAL WINDOW SMOOLS, EXCEPT AT FIRST COURSE AT FINISHED FLOOR, TOP COURSE AT CEILING, AND WHERE INDICATED OTHERWISE.
  - E. FIRE AND SOUND RATED WALLS/PARTITIONS TO BE CONSTRUCTED TIGHT TO STRUCTURE, PIPING, DUCTWORK AND OTHER PENETRATIONS. ALL WORK IS TO BE BRACED TO STRUCTURE ABOVE.
  - F. THE CONTRACTOR SHALL BE SOLELY RESPONSIBLE FOR, AND HAVE CONTROL OVER, CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES AND PROCEDURES AND FOR COORDINATING ALL PORTIONS OF THE WORK UNDER THE CONTRACT. THE CONTRACT DOCUMENTS DO NOT GIVE SPECIFIC INSTRUCTIONS CONCERNING THESE MATTERS.



**FLOOR PLAN - BASE BID**  
 SCALE: 1/8" = 1'-0"  
 BLD. AREA: 2,598 SQFT



**FLOOR PLAN - BID ALTERNATE 2598**  
 SCALE: 1/8" = 1'-0"  
 BLD. AREA: 2,598 SQFT PAVILION AREA: 1,233 SQFT



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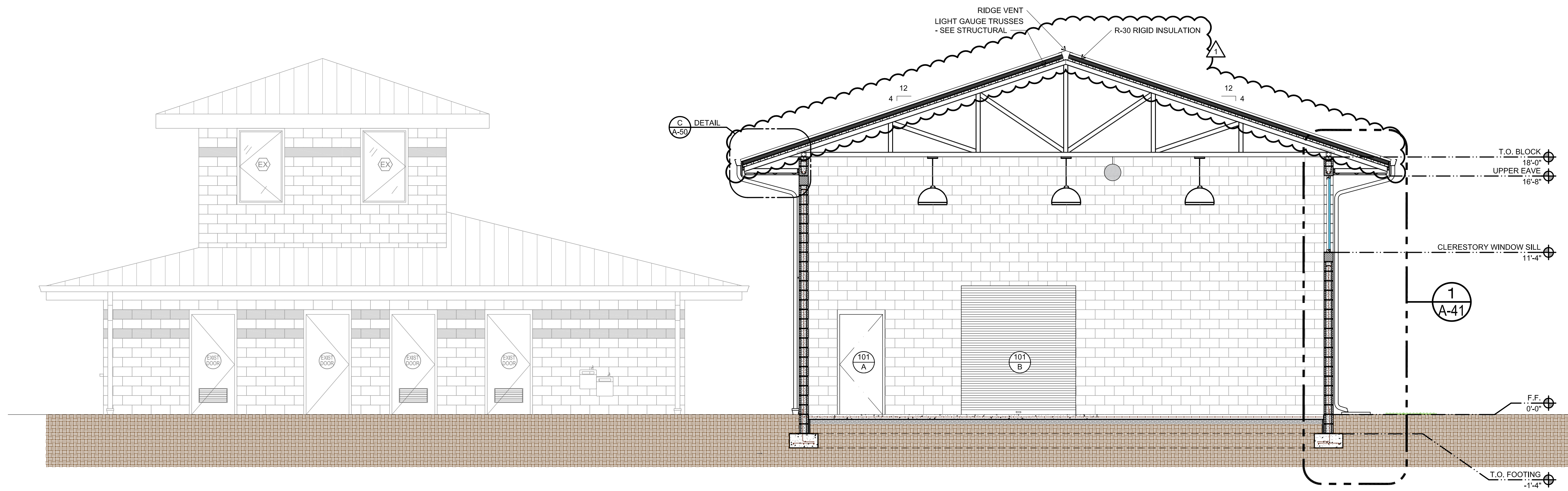
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FLOOR PLANS

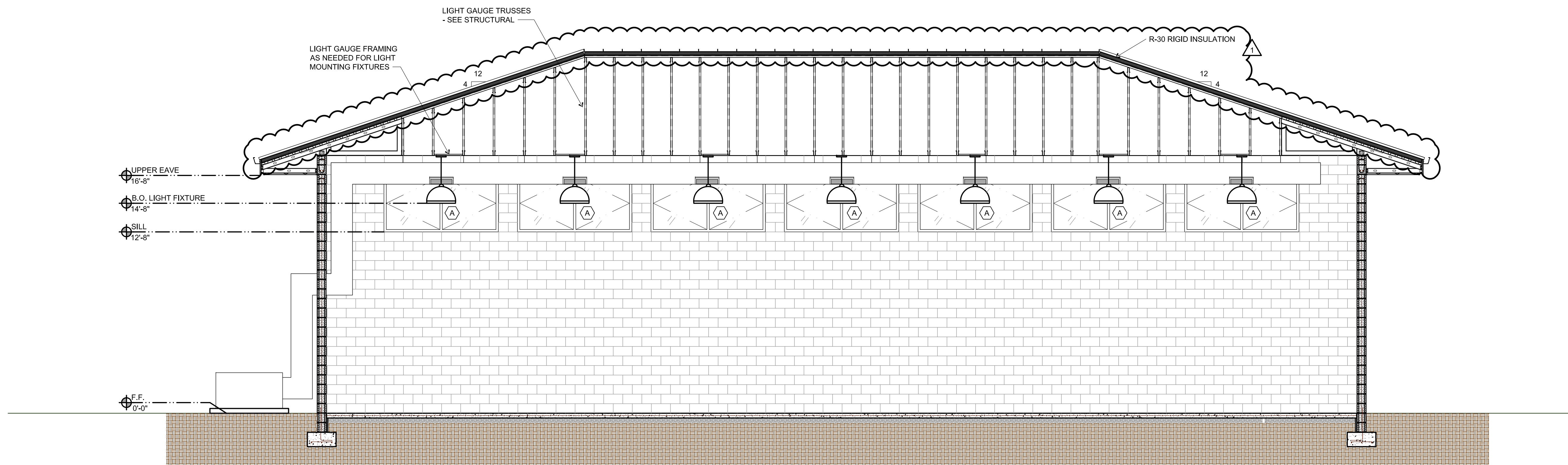
**A-10**



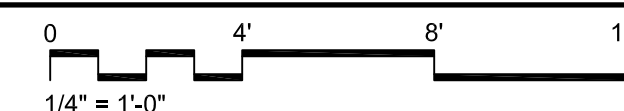
**BUILDING SECTION A**



SCALE: 1/4" = 1'-0" **A-31**



**BUILDING SECTION B**



SCALE: 1/4" = 1'-0" **A-31**

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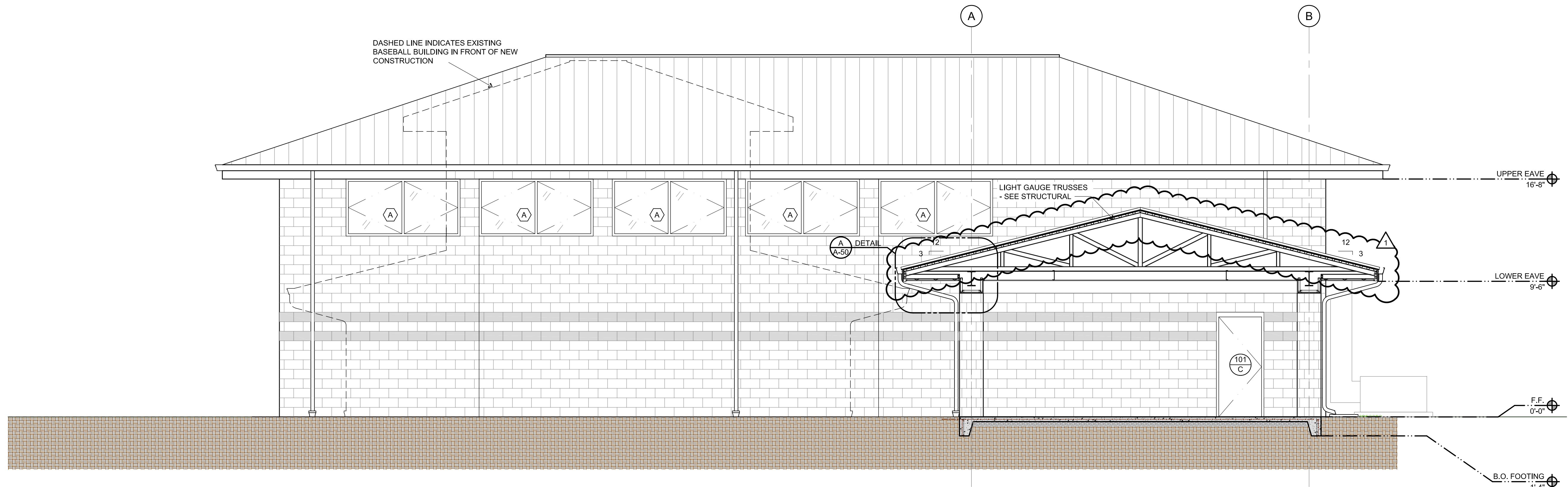


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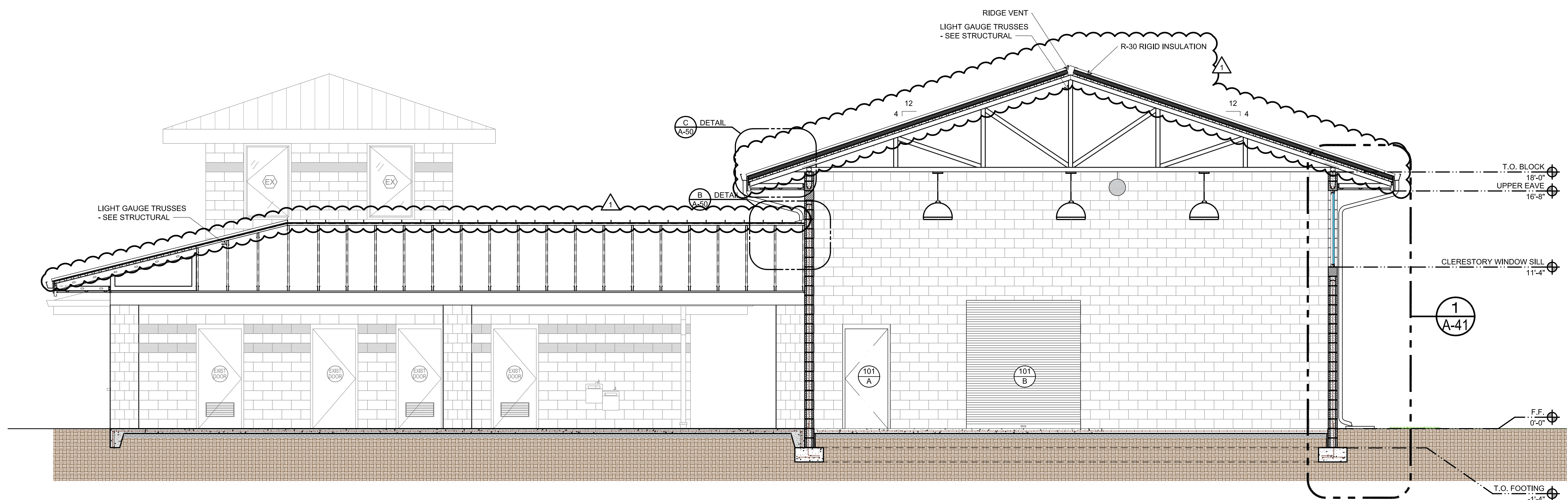
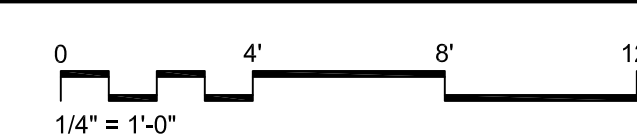
BUILDING  
 SECTIONS - BASE  
 BID

**A-31**

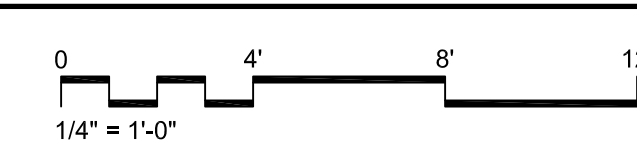
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**PAVILION SECTION B**



**BUILDING SECTION A**



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 project no. 202195

BUILDING SECTIONS - BID ALTERNATE

**A-32**



COMcheck Software Version 4.1.5.5  
Envelope Compliance Certificate

Project Information

Energy Code: 2012 IECC  
Project Title: SullivanCountyWRHS Multipurpose  
Location: Kingsport, Tennessee  
Climate Zone: 4a  
Project Type: New Construction  
Vertical Glazing / Well Area: 10%

Construction Site: Blountville, TN 37617  
Owner/Agent: Designer/Contractor:

Additional Efficiency Package(s)  
Credits: 1.0 Required, 1.0 Proposed  
High Performance HVAC, 1.0 credit

Building Area	Floor Area
1-Sports arena : Nonresidential	2738

Envelope Assemblies

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Floor 1: Slab-On-Grade/Unheated, Vertical 1 ft., [Bldg. Use 1 - Sports arena] (c)	221	---	5.0	0.610	0.540
Exterior Wall - South: Concrete Block 8", Partially Grouted, Cells Insulated, Light Density, Furring: None, [Bldg. Use 1 - Sports arena]	1222	---	4.2	0.127	0.104
Window 1: Metal Frame with Thermal Break/Fixed, Perf. Specs.: Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Sports arena] (c)	32	---	---	0.200	0.380
Window 2: Metal Frame with Thermal Break/Fixed, Perf. Specs.: Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Sports arena] (c)	32	---	---	0.200	0.380
Window 3: Metal Frame with Thermal Break/Fixed, Perf. Specs.: Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Sports arena] (c)	32	---	---	0.200	0.380
Window 4: Metal Frame with Thermal Break/Fixed, Perf. Specs.: Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Sports arena] (c)	32	---	---	0.200	0.380
Window 5: Metal Frame with Thermal Break/Fixed, Perf. Specs.: Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Sports arena] (c)	32	---	---	0.200	0.380
Window 6: Metal Frame with Thermal Break/Fixed, Perf. Specs.: Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Sports arena] (c)	32	---	---	0.200	0.380
Exterior Wall - East: Concrete Block 8", Partially Grouted, Cells Insulated, Light Density, Furring: None, [Bldg. Use 1 - Sports arena]	622	---	4.2	0.127	0.104
Door 1: Insulated Metal, Swinging, [Bldg. Use 1 - Sports arena]	21	---	---	0.610	0.610
Overhead Door: Other Door, Non-Swinging, [Bldg. Use 1 - Sports arena]	72	---	---	0.310	0.179
Exterior Wall - North: Concrete Block 8", Partially Grouted, Cells Insulated, Light Density, Furring: None, [Bldg. Use 1 - Sports arena]	1222	---	4.2	0.127	0.104
Window 7: Metal Frame with Thermal Break/Fixed, Perf. Specs.: Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Sports arena] (c)	32	---	---	0.200	0.380
Window 8: Metal Frame with Thermal Break/Fixed, Perf. Specs.: Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Sports arena] (c)	32	---	---	0.200	0.380

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Data filename: P:\ArchDept\Sullivan County Schools WRHS Multipurpose 202195\Comcheck.cck Page 1 of 9

Assembly	Gross Area or Perimeter	Cavity R-Value	Cont. R-Value	Proposed U-Factor	Budget U-Factor
Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Sports arena] (c)	32	---	---	0.200	0.380
Window 9: Metal Frame with Thermal Break/Fixed, Perf. Specs.: Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Sports arena] (c)	32	---	---	0.200	0.380
Window 10: Metal Frame with Thermal Break/Fixed, Perf. Specs.: Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Sports arena] (c)	32	---	---	0.200	0.380
Window 11: Metal Frame with Thermal Break/Fixed, Perf. Specs.: Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Sports arena] (c)	32	---	---	0.200	0.380
Window 12: Metal Frame with Thermal Break/Fixed, Perf. Specs.: Product ID N/A, SHGC 0.25, [Bldg. Use 1 - Sports arena] (c)	32	---	---	0.200	0.380
Door 2: Insulated Metal, Swinging, [Bldg. Use 1 - Sports arena]	21	---	---	0.610	0.610
Exterior Wall - West: Concrete Block 8", Partially Grouted, Cells Insulated, Light Density, Furring: None, [Bldg. Use 1 - Sports arena]	622	---	4.2	0.127	0.104
Roof 1: Insulation Entirely Above Deck, [Bldg. Use 1 - Sports arena]	2738	---	30.0	0.032	0.039

(a) Budget U-factors are used for software baseline calculations ONLY, and are not code requirements.  
(b) Other components require supporting documentation for proposed U-factors.  
(c) Fenestration product performance must be certified in accordance with NFRC and requires supporting documentation.  
(d) Slab-On-Grade proposed and budget U-factors shown in table are F-factors.

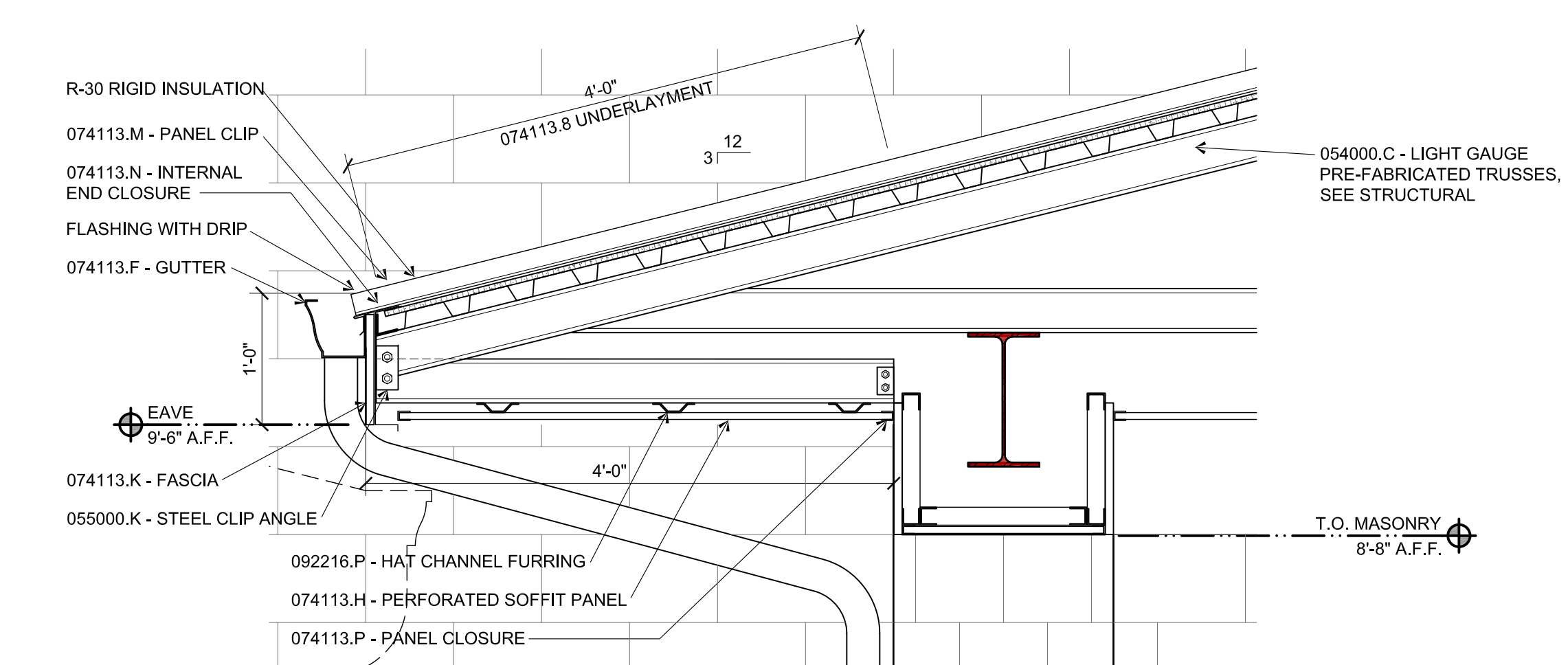
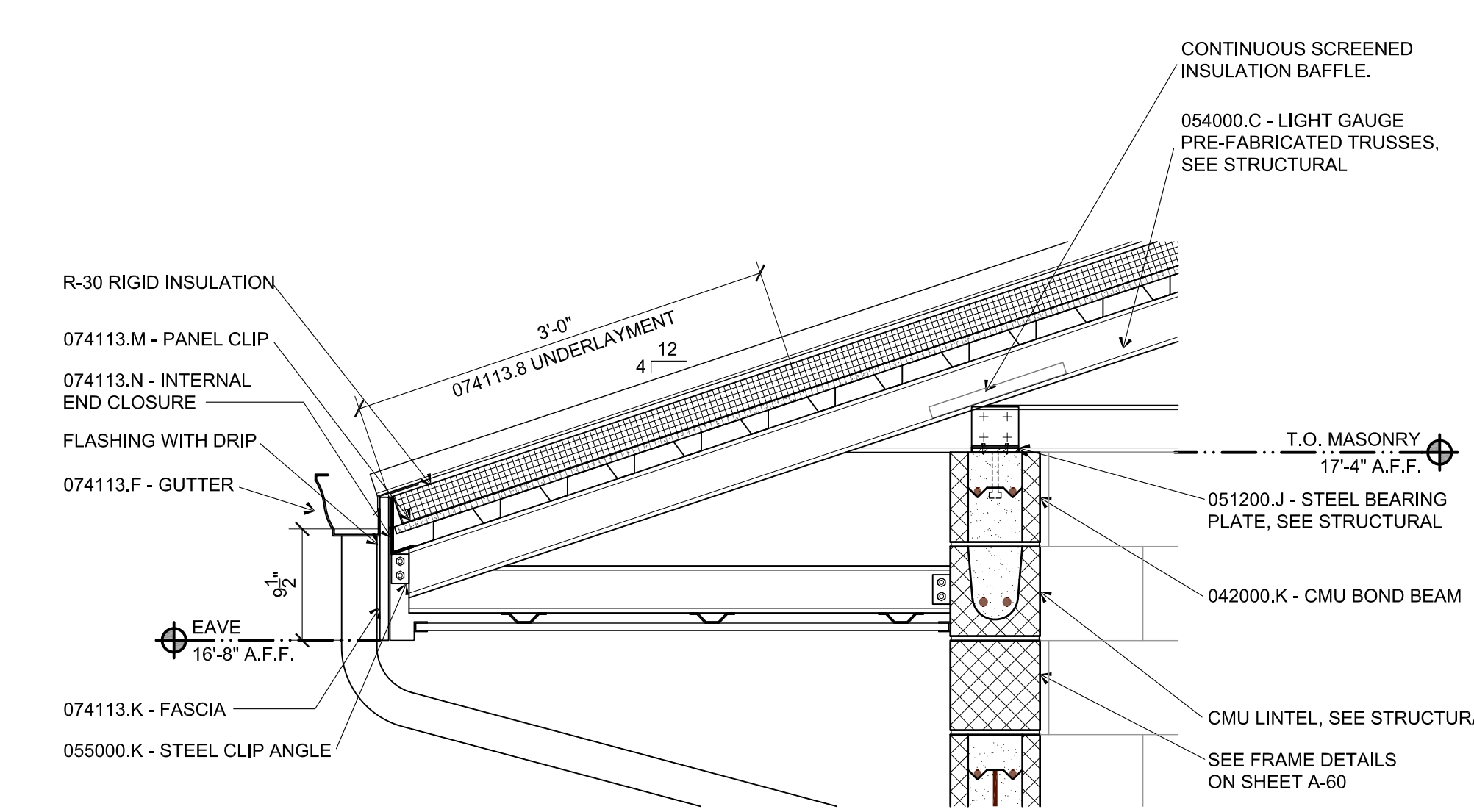
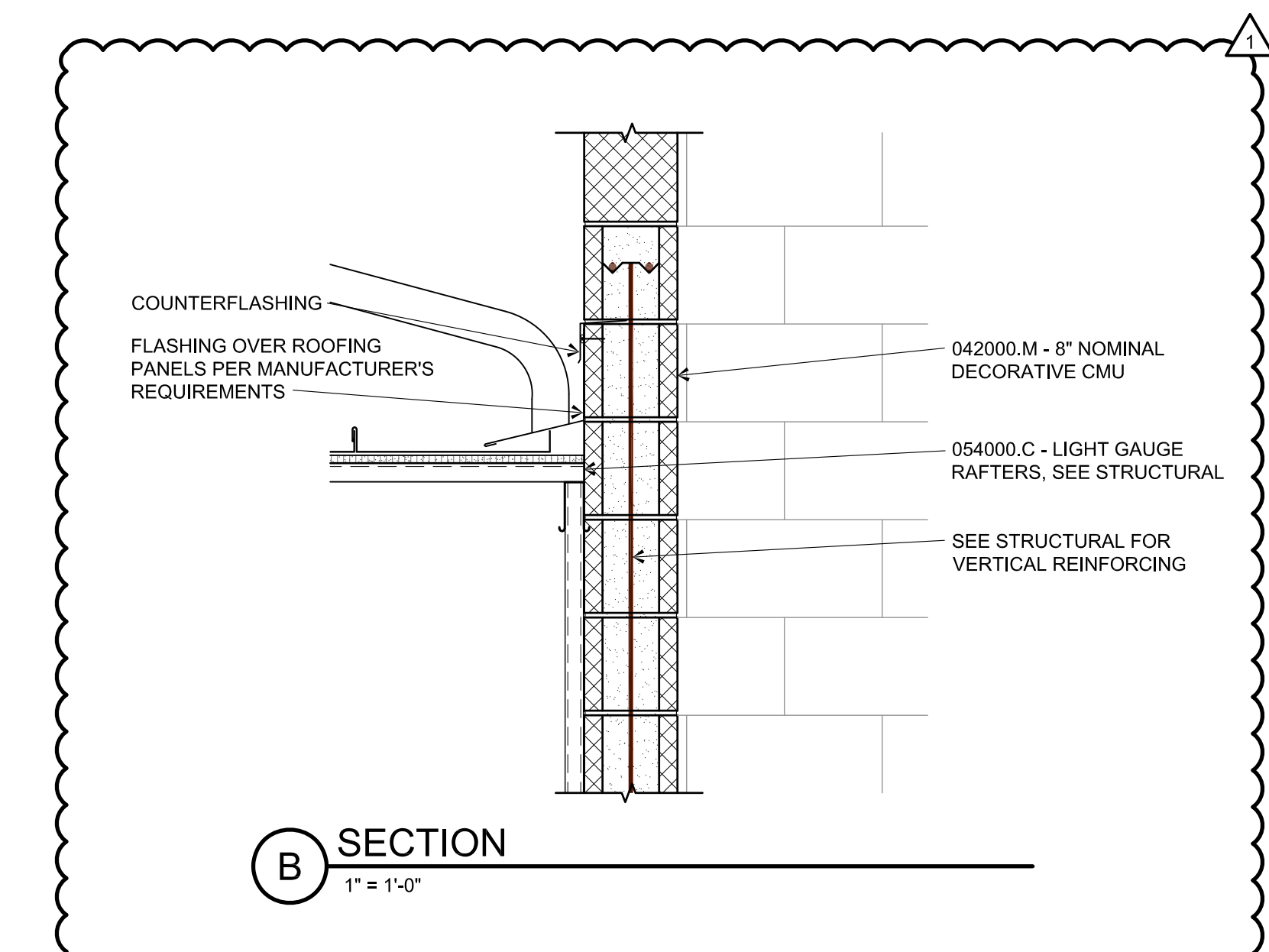
Envelope PASSES: Design 1% better than code

Envelope Compliance Statement

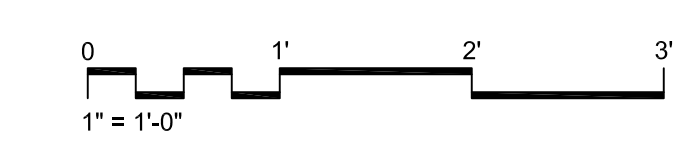
Compliance Statement: The proposed envelope design represented in this document is consistent with the building plans, specifications, and other calculations submitted with this permit application. The proposed envelope systems have been designed to meet the 2012 IECC requirements in COMcheck Version 4.1.5.5 and to comply with any applicable mandatory requirements listed in the Inspection Checklist.

Tyler Rasnake  
Name - Title Signature Date 5-20-22

Project Title: SullivanCountyWRHS Multipurpose Report date: 05/20/22  
Data filename: P:\ArchDept\Sullivan County Schools WRHS Multipurpose 202195\Comcheck.cck Page 2 of 9



SECTION DETAILS  
SCALE: 1" = 1'-0"



SULLIVAN COUNTY SCHOOLS  
New addition for:  
West Ridge High School  
Team Room Building  
Blountville, TN  
380 Lynn Rd

**Cain Rash West**  
Architects  
130 Regional Park Dr.  
Kingsport, TN 37660  
Phn (423) 349-7760  
Fax (423) 349-7413  
www.grcinc.com

THIS DRAWING AS PREPARED BY CainRashWest Architects SHALL BE USED FOR THE SPECIFIC IDENTIFIED PROJECT ONLY. THIS DRAWING IS THE PROPERTY OF CainRashWest Architects AND SHALL BE RETURNED PER THEIR REQUEST

no.	date	rev. description
1	05-19-22	ADDENDUM 1



issued 04-29-2022  
checked DW  
drawn RL  
project no. 202195

SECTION DETAILS

A-50



## SECTION 083613 - SECTIONAL DOORS

### PART 1 - GENERAL

#### 1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

#### 1.2 SUMMARY

- A. Section includes manually operated sectional doors.
- B. Related Sections:
  - 1. Division 05 Section "Metal Fabrications" for miscellaneous steel supports.

#### 1.3 PERFORMANCE REQUIREMENTS

- A. General Performance: Sectional doors shall meet performance requirements specified without failure due to defective manufacture, fabrication, installation, or other defects in construction and without requiring temporary installation of reinforcing components.
- B. Delegated Design: Design sectional doors, including comprehensive engineering analysis by a qualified professional engineer, using performance requirements and design criteria indicated.
- C. Structural Performance: Exterior sectional doors shall withstand the effects of gravity loads, and the following loads and stresses within limits and under conditions indicated according to ASCE/SEI 7.
  - 1. Wind Loads: As indicated on Drawings.
  - 2. Deflection Limits: Design sectional doors to withstand design wind loads without evidencing permanent deformation or disengagement of door components. Deflection of door in horizontal position (open) shall not exceed 1/120 of the door width.
- D. Air Infiltration: Maximum rate not more than indicated when tested according to ASTM E 283.
  - 1. Air Infiltration: Maximum rate of 0.08 cfm/sq. ft at 15 and 25.
- E. Seismic Performance: Sectional doors shall withstand the effects of earthquake motions determined according to ASCE/SEI 7.
  - 1. The term "withstand" means "the unit will remain in place without separation of any parts from the device when subjected to the seismic forces specified."
  - 2. Seismic Component Importance Factor: 1.0.
- F. Operation Cycles: Provide sectional door components and operators capable of operating for not less than number of cycles indicated for each door. One operation cycle is complete when a door is opened from the closed position to the fully open position and returned to the closed position.

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1.4 SUBMITTALS

- A. Product Data: For each type and size of sectional door and accessory. Include the following:
  - 1. Construction details, material descriptions, dimensions of individual components, profile door sections, and finishes.
- B. Shop Drawings: For each installation and for special components not dimensioned or detailed in manufacturer's product data. Include plans, elevations, sections, details, and attachments to other work.
  - 1. Detail equipment assemblies and indicate dimensions, weights, loads, required clearances, method of field assembly, components, and location and size of each field connection.
- C. Samples for Initial Selection: Manufacturer's finish charts showing full range of colors and textures available for units with factory-applied finishes.
  - 1. Include similar Samples of accessories involving color selection.
- D. Delegated-Design Submittal: For sectional doors indicated to comply with performance requirements and design criteria, including analysis data signed and sealed by the qualified professional engineer responsible for their preparation.
  - 1. Detail fabrication and assembly of seismic restraints.
  - 2. Summary of forces and loads on walls and jambs.
- E. Qualification Data: For qualified Installer.
- F. Seismic Qualification Certificates: For sectional doors, accessories, and components, from manufacturer.
- G. Warranties: Sample of special warranties.
- H. Maintenance Data: For sectional doors to include in maintenance manuals.

1.5 QUALITY ASSURANCE

- A. Installer Qualifications: Manufacturer's authorized representative who is trained and approved for both installation and maintenance of units required for this Project.
- B. Source Limitations: Obtain sectional doors from single source from single manufacturer.
- C. Standard for Sectional Doors: Fabricate sectional doors to comply with DASMA 102 unless otherwise indicated.
- D. Regulatory Requirements: Comply with applicable provisions in ICC/ANSI A117.1.

## 1.6 WARRANTY

- A. Special Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components of sectional doors that fail in materials or workmanship within specified warranty period.
  - 1. Failures include, but are not limited to, the following:
    - a. Structural failures including, but not limited to, excessive deflection.
    - b. Faulty operation of hardware.
    - c. Deterioration of metals, metal finishes, and other materials beyond normal weathering and use; rust through.
    - d. Delamination of exterior or interior facing materials.
  - 2. Warranty Period: Five years from date of Substantial Completion.
  
- B. Special Finish Warranty: Manufacturer's standard form in which manufacturer agrees to repair or replace components that show evidence of deterioration of factory-applied finishes within specified warranty period.
  - 1. Warranty Period: 10 years from date of Substantial Completion.

## PART 2 - PRODUCTS

### 2.1 ALUMINUM DOOR SECTIONS

- A. Sections: Construct door sections with stiles and rails formed from extruded-aluminum shapes, complying with ASTM B 221, alloy and temper recommended by manufacturer for type of use and finish indicated, with wall thickness not less than 0.065 inch for door section 1-3/4 inches deep. Fabricate sections with stile and rail dimensions and profiles shown on Drawings. Join stiles and rails by welding or with concealed, 1/4-inch- minimum diameter, aluminum or nonmagnetic stainless-steel through bolts, full height of door section. Form meeting rails to provide a weathertight-seal joint.
  - 1. Reinforce sections with continuous horizontal and diagonal reinforcement, as required to stiffen door and for wind loading. Ensure that reinforcement does not obstruct vision lites.
  - 2. Provide reinforcement for hardware attachment.
  
- B. Solid Insulated Panels: Fabricate of aluminum sheet, and manufacturer's standard insulated assembly, complying with ASTM B 209, alloy and temper standard with manufacturer for type of use and finish indicated, not less than 0.040 inch thick, set in continuous vinyl channel retained with rigid, snap-in, extruded-vinyl moldings or with rubber or neoprene glazing gasket with aluminum stop.
  
- C. Full-Vision Sections spaced apart the approximate distance as indicated on Drawings; in two row(s) at height indicated on Drawings; installed with glazing of the following type:
  - 1. Insulating Glass: Manufacturer's standard.
  - 2. Manufacturer's standard, tubular, aluminum-framed section fully glazed with specified glazing set in vinyl, rubber, or neoprene glazing channel and with removable extruded-vinyl or aluminum stops.

- D. Weatherseals: Replaceable, adjustable, continuous, compressible weather-stripping gaskets of flexible vinyl, rubber, or neoprene fitted to bottom and top of sectional door unless otherwise indicated.

## 2.2 TRACKS, SUPPORTS, AND ACCESSORIES

- A. Track Configuration: High-lift and Vertical-lift track.
- B. Tracks: Manufacturer's standard, galvanized-steel track system of configuration indicated, sized for door size and weight, designed for lift type indicated and clearances shown on Drawings, and complying with ASTM A 653/A 653M for minimum G60 zinc coating. Provide complete track assembly including brackets, bracing, and reinforcement for rigid support of ball-bearing roller guides for required door type and size. Slot vertical sections of track spaced 2 inches apart for door-drop safety device. Slope tracks at proper angle from vertical or design tracks to ensure tight closure at jambs when door unit is closed.
- C. Track Reinforcement and Supports: Galvanized-steel track reinforcement and support members, complying with ASTM A 36/A 36M and ASTM A 123/A 123M. Secure, reinforce, and support tracks as required for door size and weight to provide strength and rigidity without sag, sway, and vibration during opening and closing of doors.
  - 1. Vertical Track Assembly: Track with continuous reinforcing angle attached to track and attached to wall with jamb brackets.
  - 2. Horizontal Track Assembly: Track with continuous reinforcing angle attached to track and supported at points from curve in track to end of track by laterally braced attachments to overhead structural members.

## 2.3 HARDWARE

- A. General: Provide heavy-duty, corrosion-resistant hardware, with hot-dip galvanized, stainless-steel, or other corrosion-resistant fasteners, to suit door type.
- B. Hinges: Heavy-duty, galvanized-steel hinges of not less than 0.079-inch- nominal coated thickness at each end stile and at each intermediate stile, according to manufacturer's written recommendations for door size. Attach hinges to door sections through stiles and rails with bolts and lock nuts or lock washers and nuts. Use rivets or self-tapping fasteners where access to nuts is not possible. Provide double-end hinges where required, for doors over 16 feet wide unless otherwise recommended by door manufacturer.
- C. Rollers: Heavy-duty rollers with steel ball-bearings in case-hardened steel races, mounted with varying projections to suit slope of track. Extend roller shaft through both hinges where double hinges are required. Provide 3-inch- diameter roller tires for 3-inch- wide track and 2-inch- diameter roller tires for 2-inch- wide track.
- D. Push/Pull Handles: For push-up or emergency-operated doors, provide galvanized-steel lifting handles on each side of door.

## 2.4 LOCKING DEVICES

- A. Slide Bolt: Fabricate with side-locking bolts to engage through slots in tracks for locking by padlock, located on single-jamb side, operable from inside only.
- B. Chain Lock Keeper: Suitable for padlock.

## 2.5 COUNTERBALANCE MECHANISM

- A. Torsion Spring: Counterbalance mechanism consisting of adjustable-tension torsion springs fabricated from steel-spring wire complying with ASTM A 229/A 229M, mounted on torsion shaft made of steel tube or solid steel. Provide springs designed for number of operation cycles indicated.
- B. Cable Drums and Shaft for Doors: Cast-aluminum or gray-iron casting cable drums mounted on torsion shaft and grooved to receive door-lifting cables as door is raised. Mount counterbalance mechanism with manufacturer's standard ball-bearing brackets at each end of torsion shaft. Provide one additional midpoint bracket for shafts up to 16 feet long and two additional brackets at one-third points to support shafts more than 16 feet long unless closer spacing is recommended by door manufacturer.
- C. Cables: Galvanized-steel lifting cables with cable safety factor of at least 7 to 1.
- D. Cable Safety Device: Include a spring-loaded steel or spring-loaded bronze cam mounted to bottom door roller assembly on each side and designed to automatically stop door if either lifting cable breaks.
- E. Bracket: Provide anchor support bracket as required to connect stationary end of spring to the wall and to level the shaft and prevent sag.
- F. Provide a spring bumper at each horizontal track to cushion door at end of opening operation.

## 2.6 MANUAL DOOR OPERATORS

- A. Equip door with manufacturer's recommended manual door operator unless another type of door operator is indicated.
- B. Push-up Operation: Lift handles and pull rope for raising and lowering doors, with counterbalance mechanism designed so that required lift or pull for door operation does not exceed 25-lbf.
- C. Chain-Hoist Operator: Consisting of endless steel hand chain, chain-pocket wheel and guard, and gear-reduction unit with a maximum 25-lbf force for door operation. Provide alloy-steel hand chain with chain holder secured to operator guide.

## 2.7 DOOR ASSEMBLY

- A. Aluminum Sectional Door: Sectional door formed with hinged sections.
  - 1. Manufacturers: Subject to compliance with requirements, provide products by one of the following:

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- a. Clopay Building Products; a Griffon company.
  - b. Overhead Door Corporation.
  - c. Raynor.
  - d. Wayne-Dalton Corp.
  - e. Windsor Republic Doors.
- B. Operation Cycles: Not less than 20,000.
- C. Installed R-Value: 6.0 deg F x h x sq. ft./Btu 12.0 deg F x h x sq. ft./.
- D. Aluminum Sections: Solid panels and Full vision.
- E. Track Configuration: Vertical-lift or High-lift track, as indicated, unless noted otherwise.
- F. Weatherseals: Fitted to bottom and top and around entire perimeter of door.
- G. Windows: Spaced apart the approximate distance as indicated on Drawings; in two rows at height indicated on Drawings; installed with insulated glazing of the following type:
1. Tempered Insulating Glass: Manufacturer's standard.
- H. Roller-Tire Material: Manufacturer's standard.
- I. Locking Devices: Equip door with slide bolt for padlock and chain lock keeper.
- J. Counterbalance Type: Torsion spring.
- K. Manual Door Operator: Push-up operation and Chain-hoist operator.
- L. Door Finish:
1. Aluminum Finish: Clear anodized.
- 2.8 GENERAL FINISH REQUIREMENTS

- A. Comply with NAAMM's "Metal Finishes Manual for Architectural and Metal Products" for recommendations for applying and designating finishes.
- B. Appearance of Finished Work: Noticeable variations in same piece are not acceptable. Variations in appearance of adjoining components are acceptable if they are within the range of approved Samples and are assembled or installed to minimize contrast.

2.9 ALUMINUM FINISHES

- A. Clear Anodic Finish: AAMA 611, AA-M12C22A41, Class I, 0.018 mm or thicker.

PART 3 - EXECUTION

3.1 EXAMINATION

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- A. Examine substrates, areas, and conditions, with Installer present, for compliance with requirements for substrate construction and other conditions affecting performance of the Work.
- B. Examine locations of electrical connections.
- C. Proceed with installation only after unsatisfactory conditions have been corrected.

### 3.2 INSTALLATION

- A. Install sectional doors and operating equipment complete with necessary hardware, anchors, inserts, hangers, and equipment supports; according to manufacturer's written instructions and as specified.
- B. Tracks:
  - 1. Fasten vertical track assembly to opening jambs and framing, spaced not more than 24 inches apart.
  - 2. Hang horizontal track assembly from structural overhead framing with angles or channel hangers attached to framing by welding or bolting, or both. Provide sway bracing, diagonal bracing, and reinforcement as required for rigid installation of track and door-operating equipment.
  - 3. Repair galvanized coating on tracks according to ASTM A 780.
- C. Accessibility: Install sectional doors, switches, and controls along accessible routes in compliance with regulatory requirements for accessibility.

### 3.3 ADJUSTING

- A. Adjust hardware and moving parts to function smoothly so that doors operate easily, free of warp, twist, or distortion.
- B. Lubricate bearings and sliding parts as recommended by manufacturer.
- C. Adjust doors and seals to provide weathertight fit around entire perimeter.
- D. Align and adjust motors, pulleys, belts, sprockets, chains, and controls according to manufacturer's written instructions.
- E. Touch-up Painting: Immediately after welding galvanized materials, clean welds and abraded galvanized surfaces and repair galvanizing to comply with ASTM A 780.

### 3.4 DEMONSTRATION

- A. Engage a factory-authorized service representative to train Owner's maintenance personnel to adjust, operate, and maintain sectional doors.

END OF SECTION 083613