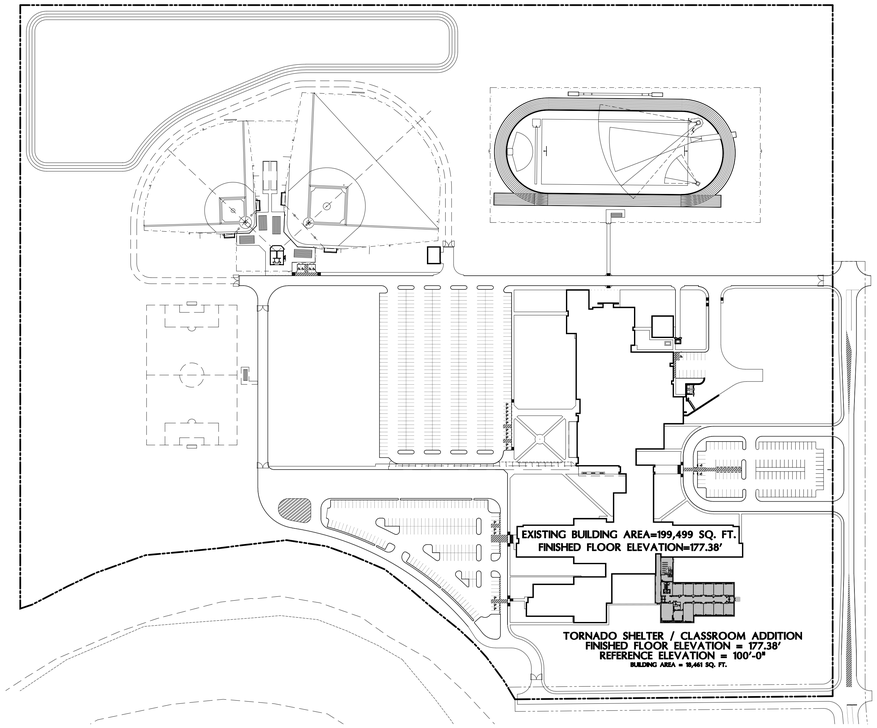
NEW CLASSROOM / TORNADO SHELTER ADDITION for BENTON HIGH SCHOOL

BOSSIER PARISH SCHOOL BOARD

449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006
BPSB PROJECT #26-02

BOSSIER SCHOOLS
"Win the Day!"



BOSSIER PARISH SCHOOL BOARD MEMBERS:

Jason Rowland: Superintendent

District 1 Billie Jo Brotherton	District 4 Sherri Pool, Vice President	District 7 Rafe Jordan	District 10 Samm Darby
District 2 Kent Bockhaus	District 5 Logan McConathy	District 8 Kenneth Wiggins	District 11 Robert Bertrand
District 3 Tammy Smith	District 6 Glen Bullard	District 9 Eric Newman, President	District 12 Erick Falting

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LEGEND:

- 01 / A1 — DETAIL/SECTION INDICATOR; DETAIL OR SECTION NUMBER; SHEET NUMBER
- AREA OF DETAIL ENLARGEMENT — DETAIL OR SECTION NUMBER; SHEET NUMBER; Ø1/A5 PLAN DETAIL
- ATRIUM A1000 — ROOM NAME DESIGNATION; AREA/ROOM NUMBER DESIGNATION; INTERIOR WALL TYPE DESIGNATION
- 3 — ARCHITECTURAL KEY NOTE DESIGNATION
- A — EXTERIOR OPENING DESIGNATION (WINDOWS AND LOUVERS)
- 1 — TOILET ACCESSORY DESIGNATION
- FX-3 — EQUIPMENT DESIGNATION
- 79 — SIGNAGE DESIGNATION
- Ø1/A5; A5.1; A144-1 — ELEVATION INDICATOR; OPENING NUMBER DESIGNATION

GENERAL NOTES:

1. ALL WALLS ARE DIMENSIONED TO THE FINISHED FACE OF THE WALL (IE. GYPSUM BOARD).

2. DO NOT SCALE DRAWINGS. IF DIMENSIONS ARE IN QUESTION, THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING CLARIFICATION FROM THE ARCHITECT.

3. GENERAL CONTRACTOR SHALL OBTAIN AND PAY FOR ALL FEES, PERMITS, AND INSPECTIONS REQUIRED IN CONNECTION WITH THE WORK.

4. THE CONTRACTOR WILL BE DEEMED TO HAVE BEEN THOROUGHLY FAMILIAR WITH THE CONDITIONS UNDER WHICH THE WORK IS TO BE PERFORMED, OR THAT WILL, IN ANY MANNER AFFECT THE WORK. NO EXTRA PAYMENTS WILL BE MADE ON CLAIMS FOR ADDITIONAL WORK THAT COULD HAVE BEEN DETERMINED OR ANTICIPATED PRIOR TO SUBMITTING THE PROPOSAL.

5. BEFORE THE WORK IS BEGUN, THE CONTRACTOR SHALL MAKE A THOROUGH SURVEY OF THE BUILDING SITE AND SHALL NOTIFY THE ARCHITECT AT LEAST 10 DAYS PRIOR TO THE BID DATE OF ANY DISCREPANCIES BETWEEN EXISTING CONDITIONS AND THOSE SHOWN ON THE DRAWINGS.

6. THE CONTRACTOR SHALL CONFORM TO ALL STATE AND LOCAL CODES AND ORDINANCES APPLICABLE TO THIS WORK IN EFFECT AT THE TIME THE WORK IS PERFORMED.

7. THE CONTRACTOR SHALL CONSULT WITH THE OWNER CONCERNING THE SEQUENCES AND SCHEDULES TO BE EMPLOYED IN PERFORMING THE WORK AND SHALL PREPARE A PROPOSED CONSTRUCTION SCHEDULE FOR APPROVAL AND SHALL BE UPDATED AT EACH PROJECT MEETING.

8. THE CONTRACTOR SHALL FILL AND PATCH ALL OPENINGS AND HOLES, SEAL AROUND ALL PIPES, DUCTS, ETC. AND ENSURE THE INTEGRITY OF ALL REQUIRED FIRE AND/OR SMOKE SEPARATIONS IN ACCORDANCE WITH APPLICABLE CODES AND ORDINANCES. PROVIDE MANUFACTURER PRODUCT DATA SHEETS FOR EACH PRODUCT APPLICATION INDICATING PROPER INSTALLATION REQUIREMENTS AND UL RATING.

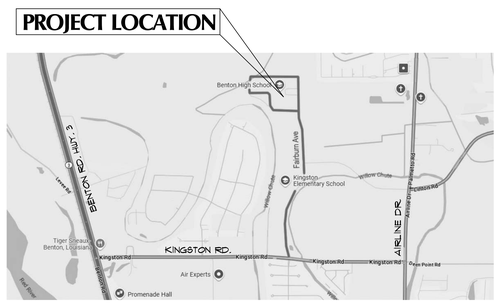
9. ALL GYPSUM WALLBOARD ABUTTING OTHER MATERIALS SHALL BE FINISHED WITH METAL EDGES.

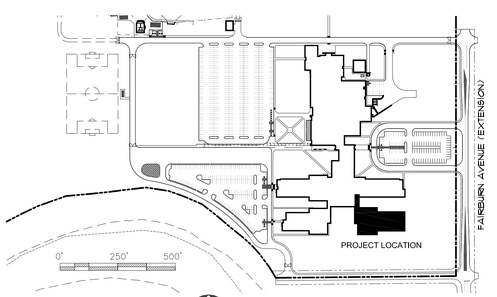
10. THE CONTRACTOR SHALL PATCH AND FINISH TO MATCH EXISTING ANY ADJACENT SPACES WHICH ARE AFFECTED IN ANY MANNER BY THIS CONSTRUCTION. WHEN IT BECOMES NECESSARY TO OBTAIN ACCESS TO ADJACENT SPACES, THE CONTRACTOR SHALL COORDINATE SUCH ACCESS WITH THE OWNER, ALLOWING AS MUCH ADVANCE NOTICE AS POSSIBLE.

"DRAWINGS, SPECIFICATIONS AND OTHER DOCUMENTS, PREPARED BY THE DESIGN PROFESSIONAL (DP) AND THE DP'S CONSULTANTS ARE INSTRUMENTS OF SERVICE FOR USE SOLELY WITH RESPECT TO THIS PROJECT. THIS INCLUDES DOCUMENTS IN ELECTRONIC FORM. THE DP AND THE DP'S CONSULTANTS SHALL BE DEEMED THE AUTHORS AND OWNERS OF THEIR RESPECTIVE INSTRUMENTS OF SERVICE AND SHALL RETAIN ALL COMMON LAW, STATUTORY AND OTHER RESERVED RIGHTS, INCLUDING COPYRIGHTS.

THE INSTRUMENTS OF SERVICE SHALL NOT BE USED BY THE OWNER FOR FUTURE ADDITIONS OR ALTERATIONS TO THIS PROJECT OR FOR OTHER PROJECTS, WITHOUT THE PRIOR WRITTEN AGREEMENT OF THE DESIGN PROFESSIONAL. ANY UNAUTHORIZED USE OF THE INSTRUMENTS OF SERVICE SHALL BE AT THE OWNER'S SOLE RISK AND WITHOUT LIABILITY TO THE DESIGN PROFESSIONAL AND THE DP'S CONSULTANTS."

VICINITY MAP





LOCATION MAP

BLEDSOE ARCHITECTS

735 ROBINHOOD STREET
SHREVEPORT, LA 71106

PHONE: (318) 219-2295
FAX: (318) 219-2296

BRYAN T. BLEDSOE No. 30,124 REGISTERED ARCHITECT STATE OF LOUISIANA

CIVIL CONSULTING ENGINEERS:
Raley & Associates, Inc.
4913 Shed Road
Bossier City, LA 71111
Phone: 318-752-9023

STRUCTURAL CONSULTING ENGINEERS:
BK Smith Engineering Co. Inc.
1914 Citizens Bank Drive
Bossier City, LA 71111
Phone: 318-741-0127

MECHANICAL AND ELECTRICAL CONSULTING ENGINEERS:
EMA Engineering & Consulting
9441 Stevens Road, Suite 200
Shreveport, LA 71106
Phone: 318-425-4500

NEW CLASSROOM / TORNADO SHELTER ADDITION for BENTON HIGH SCHOOL

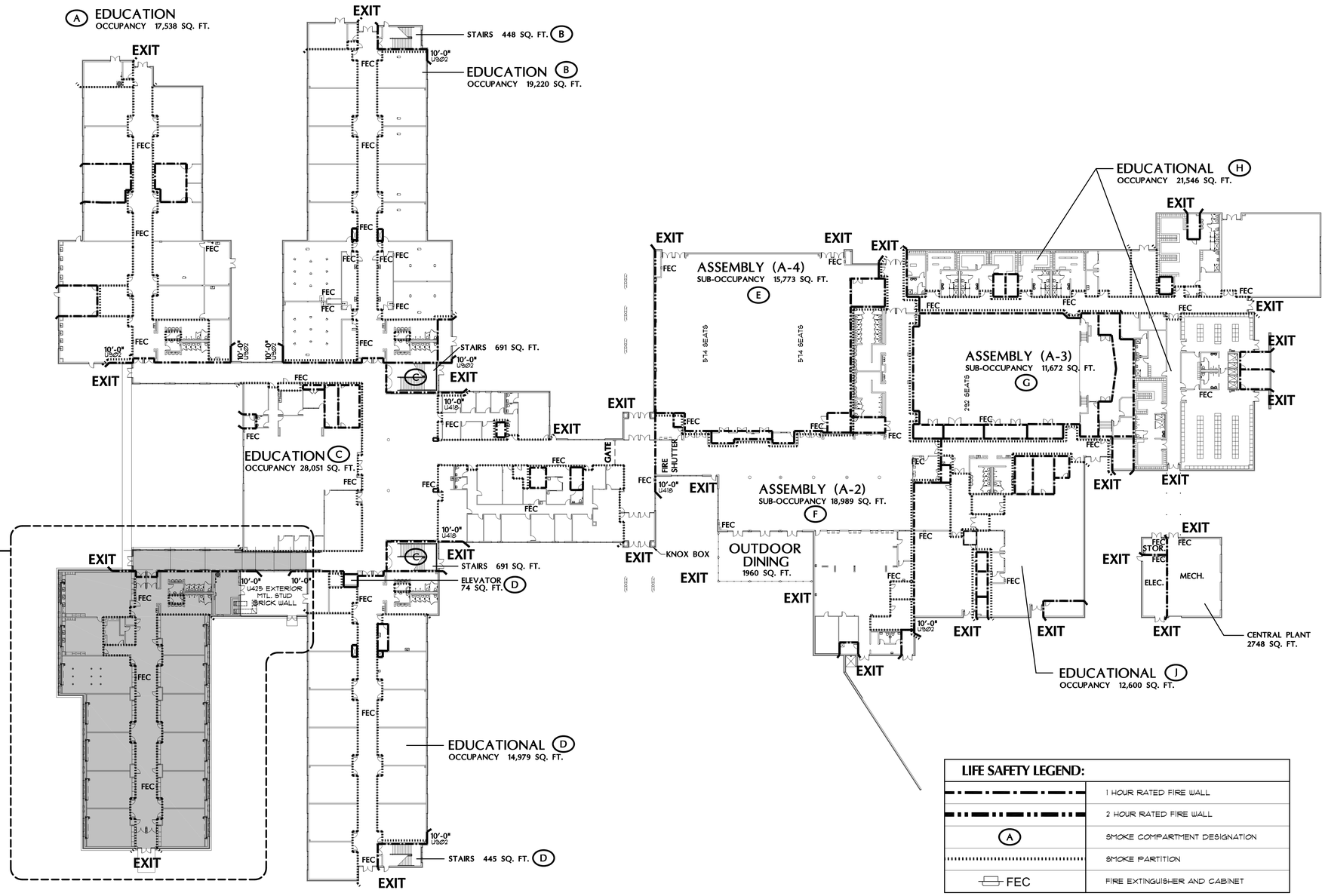
CONSTRUCTION DOCUMENTS

JOB NO. 2511

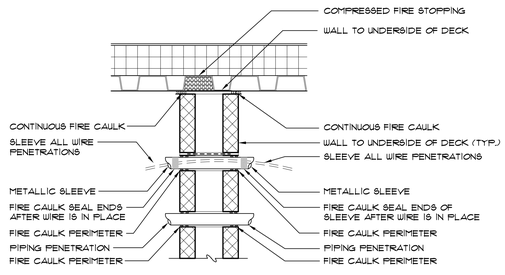
REVISIONS:

14 JAN 2026

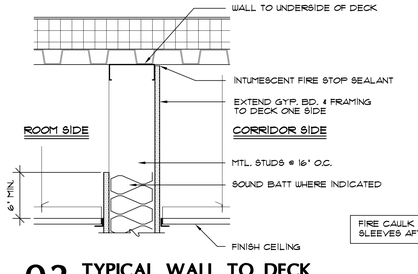
NEW CLASSROOM ADDITION



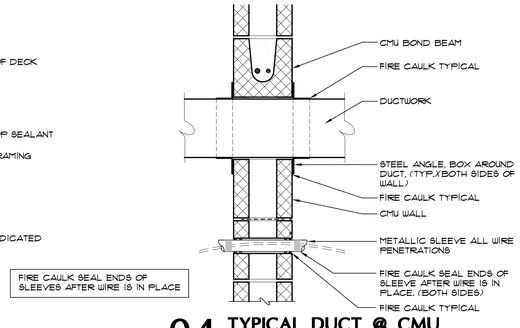
01 COMPOSITE FIRST FLOOR PLAN
LS1.0 SCALE: 1" =30'-0"



02 TYPICAL FIRE CAULK DETAIL
LS1.0 SCALE: 1 1/2" = 1'-0"

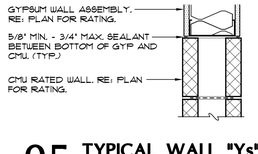


03 TYPICAL WALL TO DECK (NON-RATED)
LS1.0 SCALE: 1 1/2" = 1'-0"



04 TYPICAL DUCT @ CMU PENETRATION DETAIL
LS1.0 SCALE: 1 1/2" = 1'-0"

PROVIDE STENCILED LABEL ABOVE CEILINGS, BOTH SIDES OF WALL. RED LETTERING SHALL BE A MINIMUM OF 2" HEIGHT AND SHALL READ " 2 HR RATED WALL - DO NOT PENETRATE" TYPICAL ALL RATED PARTITIONS.



05 TYPICAL WALL "Ys" SMOKE RATED DETAIL
LS1.0 SCALE: 1 1/2" = 1'-0"

LIFE SAFETY LEGEND:

	1 HOUR RATED FIRE WALL
	2 HOUR RATED FIRE WALL
A	SMOKE COMPARTMENT DESIGNATION
	SMOKE PARTITION
FEC	FIRE EXTINGUISHER AND CABINET

CODE ANALYSIS:

PROJECT DESCRIPTION:
CONSTRUCTION OF A NEW HIGH SCHOOL WING ADDITION AT AN EXISTING SCHOOL FACILITY FOR EDUCATIONAL FACILITY AND TORNADO SHELTER. (GRADES 9-12)

BUILDING CLASSIFICATION:

USE:	EDUCATIONAL FACILITY AND TORNADO SHELTER	
OCCUPANCY CLASSIFICATION:	NFPA 101 2015 ED.: EDUCATIONAL	IBC 2021 ED.: EDUCATIONAL GROUP E
TYPE OF CONSTRUCTION:	NFPA 101 2015 EDITION: TYPE II (000) IBC 2021 EDITION: TYPE II (B)	
FIRE SUPPRESSION:	PROTECTED THROUGHOUT BY AN AUTOMATIC SPRINKLER SYSTEM	
PROJECT AREA:	NEW FIRST FLOOR: 18,461 GROSS SQUARE FEET EXISTING FIRST FLOOR: 162,777 GROSS SQUARE FEET EXISTING SECOND FLOOR: 36,782 GROSS SQUARE FEET TOTAL: 217,960 GROSS SQUARE FEET	

CODE COMPLIANCE:
- ICC 500-2020 STANDARD - DESIGN & CONSTRUCTION OF STORM SHELTERS
- BOSSIER CITY, LA UNIFIED DEVELOPMENT CODE, 2018 ED.
- INTERNATIONAL BUILDING CODE, 2015 ED.
- INTERNATIONAL PLUMBING CODE - 2015 ED. W/ LOUISIANA AMENDMENTS
- NATIONAL ELECTRIC CODE, 2014 ED.
- INTERNATIONAL FUEL GAS CODE, 2015 ED.
- INTERNATIONAL MECHANICAL CODE, 2015 ED.
- NATIONAL FIRE PROTECTION ASSOCIATION 101 (NFPA 101 2015 ED.)
- ANSI/ASHRAE/IESNA STANDARD 90.1 - 2007 ED.
- ADA-AG ACCESSIBILITY GUIDELINES, 2010 ED.

CODE ANALYSIS:

FIRE RESISTANCE REQUIREMENTS:
BUILDING SHALL BE PROTECTED THROUGHOUT BY AN AUTOMATIC SPRINKLER SYSTEM

EXTERIOR BEARING WALLS:	0 HOUR
COLUMNS:	0 HOUR
BEAMS, GIRDERS, TRUSSES:	0 HOUR
FLOOR CONSTRUCTION:	0 HOUR
ROOF CONSTRUCTION:	0 HOUR
EXTERIOR NONBEARING WALLS:	0 HOUR

FIRE PROTECTION:

VERTICAL SHAFTS:	1 HOUR CONSTRUCTION
SMOKE BARRIERS:	1 HOUR CONSTRUCTION
SMOKE PARTITIONS:	1 HOUR CONSTRUCTION
HAZARDOUS AREA PROTECTION:	1 HOUR CONSTRUCTION

STRUCTURAL LOADS:

LIVE LOAD:	ROOF	20 PSF
	FLOOR	40 PSF
SEISMIC CATEGORY:	SITE CLASS	C
	DESIGN CATEGORY	B
SNOW LOAD:	GROUND SNOW LOAD Pg =	5 PSF
	EXPOSURE FACTOR Ce =	0.9
	IMPORTANCE FACTOR I =	1.0
WIND LOAD:	WIND SPEED =	90 MPH
	IMPORTANCE FACTOR I =	1.15

BLEDSOE ARCHITECTS
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NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

COMPOSITE FIRST FLOOR LIFE SAFETY PLAN

BPSB PROJECT #26-02

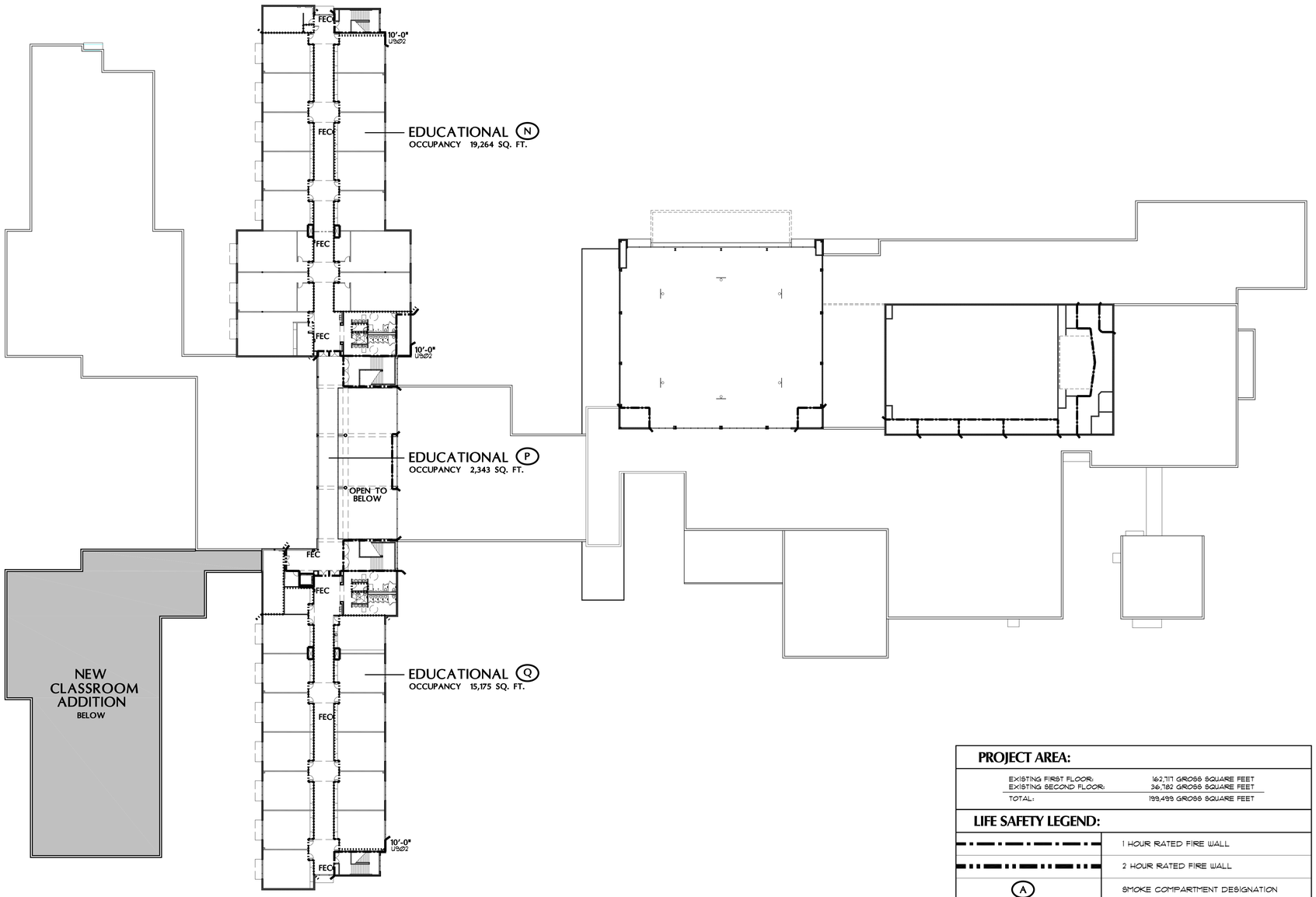
JOB NO. 2511

REVISIONS:

14 JAN 2026

SHEET

LS1.0



01 EXISTING COMPOSITE SECOND FLOOR PLAN
LS2.0 SCALE: 1" =30'-0"

PROJECT AREA:	
EXISTING FIRST FLOOR:	162,717 GROSS SQUARE FEET
EXISTING SECOND FLOOR:	36,782 GROSS SQUARE FEET
TOTAL:	199,499 GROSS SQUARE FEET

LIFE SAFETY LEGEND:	
	1 HOUR RATED FIRE WALL
	2 HOUR RATED FIRE WALL
A	SMOKE COMPARTMENT DESIGNATION
	SMOKE PARTITION
FEC	FIRE EXTINGUISHER AND CABINET

BLEDSOE ARCHITECTS
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BOSSIER PARISH SCHOOL BOARD
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BENTON, LOUISIANA 71006

EXISTING COMPOSITE SECOND FLOOR LIFE SAFETY PLAN

BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

14 JAN 2026

SHEET
LS2.0

STORM SHELTER CODE ANALYSIS:

APPLICABLE CODES AND STANDARDS

2015 International Building Code/Amendments
2011 National Electric Code/Amendments
2015 International Energy Conservation Code
2015 International Mechanical Code/Amendments
2015 International Pluming Code/Amendments
2015 International Fire Code/Amendments
2010 Americans with Disabilities Act
2020 ICC-500

IBC 2015:

CHAPTER 4
SPECIAL DETAILED REQUIREMENTS BASED ON USE AND OCCUPANCY

423.1 General.
In addition to other applicable requirements in this code, storm shelters shall be constructed in accordance with ICC-500. ICC 500.
423.1.1 Scope.
This section applies to the construction of storm shelters constructed as separate detached buildings or constructed as safe rooms within buildings for the purpose of providing safe refuge from storms that produce high winds, such as tornados and hurricanes. Such structures shall be designated to be hurricane shelters, tornado shelters, or combined hurricane and tornado shelters.
423.4 Group E occupancies.
In areas where the shelter design wind speed for tornados is 250 MPH in accordance with Figure 304.2(1) of ICC 500, all Group E occupancies with an aggregate occupant load of 50 or more shall have a storm shelter constructed in accordance with ICC 500. The shelter shall be capable of housing the total occupant load of the Group E occupancy.
1604.5 Risk Category Table 1604.5
Risk Category III: Buildings and other structures containing Group E occupancies with an occupant load greater than 250.

ICC 500 2020:

CHAPTER 1
APPLICATION AND ADMINISTRATION

104.1 Storm Shelters within host buildings.
Where a designated storm shelter is constructed as a room or space within a host building that will normally be occupied for other purposes, the requirements of the applicable code for the occupancy of height building, or the individual rooms or spaces thereof, shall apply unless otherwise required by ICC 500.
106.0 Information required.
The following information applicable to construction and operation of the storm shelter shall be supplied as part of the construction documents. See Listing on 106.2

106.2 Design Information. For the areas of a building designed for occupancy as a storm shelter, the following information shall be provided within the construction documents:	
1. Type of shelter: Residential or community tornado, hurricane or a combination of both.	**Community tornado.**
2. Use of community storm shelter: use by the general public, building occupants or a combination of both.	**Building occupants.**
3. A statement that the wind design conforms to the provisions of the ICC/NSSA Standard for the Design and Construction of Storm Shelters, with the edition year specified.	**ICC-500, 2020. See Structural.**
4. The shelter design wind speed, mph.	**250 mph.**
5. The wind exposure category (indicate all if more than one is used).	**See Structural.**
6. The internal pressure coefficient, GCpi.	**See Structural.**
7. The topographic factor, Kzt.	**See Structural.**
8. The directionality factor, Kd.	**See Structural.**
9. Design wind pressures and their applicable zones with dimensions needed for the specification of the components and cladding of the storm shelter envelope, psf (kN/m2)	**See Structural.**
10. A statement that the shelter has/has not been constructed within an area susceptible to flooding in accordance with Chapter 4 of this standard.	**The shelter is located in Zone X, area of minimal flood hazard.**
11. The Design Flood Elevation and Base Flood Elevation for the site (if applicable).	**n/a**
12. Documentation showing that components of the shelter envelope will meet the static pressure and impact test requirements identified in Chapters 3 and 8.	**Specifications have required component documentation to be provided with submittal requirements.**
13. A floor plan drawing or image indicating location of the storm shelter on a site or within a building or facility; including a drawing or image indicating the entire facility.	**Refer to 01/G1 for Storm Shelter Identifying Plan. Graphics to be provided by Architect.**
14. A storm shelter section or elevation indicating the height of the storm shelter relative to the finished grade, finished floor and the host building, where applicable.	**See Shelter Section 02/G1**
15. The lowest shelter floor elevation and corresponding datum except for residential shelters outside of special flood hazard areas.	**Arch F.F. Level 1 = 100'-0" Civil F.F. Level 1 = 175.5'**
16. The occupant load of the storm shelter.	**638**
17. The usable storm shelter floor area.	**See "Code Plan - Community Storm Shelter" for area.**
18. Venting area (square inches) provided and locations in the shelter.	**See MPE.**
19. Calculations for the number of sanitation facilities for community shelters.	**Refer to "Storm Shelter Sanitation Facilities" Schedule**
20. Minimum foundation capacity requirements.	**See Structural.**
21. Shelter installation requirements, including anchor location and minimum required capacity for each anchor.	**See Structural.**

106.2.2 Enclosure.
When a storm shelter is to be constructed as a portion of a host building, the walls and floors enclosing the shelter hall be clearly indicated on the drawings.
106.2.4 Signage.
The type and location of signs required by this standard shall be indicated on the floor plans.
106.2.6 Special Instructions.
The construction documents shall provide or include any details or instructions required for the functional operation of the storm shelter, such as:
1. Type and location of equipment and amenities required within the shelter, including water supply, sanitary facilities, fire extinguishers, batteries, flashlights, special emergency lighting equipment or any other equipment required to be installed in the shelter.
2. Specifications for any alarm system to be installed.
3. Instructions for the installation or deployment of any impact-protective systems such as shutters, screens, doors, or windows.
4. Instructions for the installation, activation or deployment of any mechanical, electrical and plumbing equipment.

107.0 Quality assurance plan.
The construction documents for community shelters shall contain a quality assurance plan in accordance with Sections 107.2 through 107.4.
107.4 Contractor responsibility.
Each contractor responsible for the construction, fabrication or installation of a main windforce-resisting system, impact-protective system, or any component listed in the quality assurance plan shall submit a written statement of responsibility to the authority having jurisdiction, the responsible design professional and the owner or owner's authorized agent prior to the commencement of work on the system or component.
The contractor's statement of responsibility shall contain:
1. Acknowledgement of awareness of the special requirements contained in the quality assurance plan.
2. Acknowledgement that control will be exercised to obtain compliance with the construction documents.
3. Procedures for exercising control within the contractor's organization, the method and frequency of reporting and the distribution of reports.
4. Identification and qualifications of the person(s) exercising such control and their position(s) in the organization.

Exception: A written statement of responsibility shall not be required for the fabrication of storm shelter components that have been inspected and labeled by an approved agency as meeting the requirements of the applicable code and this standard.

108.0 Owner's Responsibility
108.1 Owner's statement of responsibility
For each community storm shelter, the owner shall submit to the authority having jurisdiction a written statement of responsibility acknowledging the owner's responsibilities regarding shelter operation and maintenance with the application for a construction permit.
108.2 Preparedness and emergency operations plan.
For each community storm shelter, the owner or the owner's authorized agent shall submit to the authority having jurisdiction a written preparedness and emergency operations plan for the storm shelter prior to approval of the certificate of occupancy.
109.2 Peer Review
The owner or the owner's authorized agent, other than the registered design professionals for the project, shall employ independent registered design professionals to conduct a peer review for compliance with the requirements of Sections 106, 107, 110 and 111 and Chapters 3, 4, 5, 6 and 7.
110.1 Special Inspections
Special inspections shall be provided in accordance with this section, in addition to those required by the authority having jurisdiction in accordance with the applicable code. One statement of special inspections shall be permitted to apply to both host building and storm shelter construction.

CHAPTER 3
STRUCTURAL DESIGN CRITERIA

304.2 Design wind speed.
For tornado shelters, the design wind speed shall be in accordance with Figure 304.2(1).
305.1 Wind-borne debris.
All shelters shall be designed for the impact of wind-borne debris in accordance with section 305.1 through 305.2.2.
305.1.1 Missile criteria for tornado shelters.
The missile testing for all components of the shelter envelope of tornado shelters shall be a 15-pound (6.8 kg) sawn lumber 2 by 4 travelling at the speeds shown in table 305.1.1.

Table 305.1.1 Speeds for 15-lb sawn lumber 2 x 4 missile for tornado shelters

Design Wind Speed	Missile Speed and Shelter Impact Surface
250 mph	100 mph Vertical Surfaces 67 mph Horizontal Surfaces

CHAPTER 4
SITING

402.1 General.
Flood criteria shall apply to storm shelters in accordance with Table 402.1. Storm shelters shall be sited and elevated in accordance with Sections 402.2 through 402.6.4 and shall be designed and constructed to resist the effects of flood hazards and flood loads in accordance with Section 303.5.

TABLE 402.1 - STORM SHELTERS REQUIRED TO COMPLY WITH SECTION 402

TYPE OF SHELTER	LOCATION OF SHELTER
	FLOOD HAZARD AREA
Community tornado shelter	All

402.6 Minimum floor elevation of storm shelters.
Where storm shelters are located in the areas indicated in Table 402.1, the minimum floor elevations of storm shelters shall be determined in accordance with Sections 402.6.1, 402.6.2, 402.6.3 and 402.6.4 as applicable.
402.6.1 Minimum floor elevation of community shelters.
The lowest floor used for the occupied shelter and occupant support areas of a community tornado shelter shall be elevated to or above the higher of the elevations determined by all of the following:
1. The minimum elevation of the lowest floor required by the authority having jurisdiction for the location where the shelter is installed.
2. One foot above the base flood elevation.

CHAPTER 5
OCCUPANT DENSITY, ACCESS, ACCESSIBILITY, EGRESS AND SIGNAGE

502.2.1.
The design occupant capacity shall be based on the design occupant capacity of the storm shelter, as determined by the designer and the owner or the owner's authorized agent, and approved by the authority having jurisdiction.
502.2.2 Calculated.
The calculated design occupant capacity shall be determined by the usable floor area divided by the unit of area prescribed per occupant in Table 502.3.

TABLE 502.3 - OCCUPANT DENSITY - COMMUNITY STORM SHELTERS

TYPE OF SHELTER	MINIMUM REQUIRED USABLE SHELTER FLOOR AREA IN SQUARE FEET PER OCCUPANT
	Tornado
Standing or seated	5
Wheelchair	10
Bedridden	30

501.1.2 Usable storm shelter floor area.
The usable storm shelter floor areas shall be determined by section 502.4.1, 502.4.2 or a combination of these methods.
502.4.1 Calculation of usable floor area.
The usable shelter floor area shall be determined by using the following percentages:
1. Reducing the gross floor area of shelter areas with areas of concentrated furnishings or fixed seating by a minimum of 50 percent. See schedule (.5 Storm Shelter Area Reduction Factor).
2. Reducing the gross floor area of shelter areas with areas of unconcentrated furnishings and without fixed seating by a minimum of 35 percent. See schedule (.65 Storm Shelter Area Reduction Factor).
3. Reducing the gross floor area of shelter areas with areas of open plan furnishings and without fixed seating by a minimum of 15 percent. See schedule (.85 Storm Shelter Area Reduction Factor).

502.4.2 Alternative calculation of usable floor area.
The usable shelter floor area shall be determined by subtracting from the gross floor area, the floor area partitions and walls, columns, fixed or movable objects, furniture, equipment or other features that under probable conditions cannot be removed.
504.4 Egress doors.
The number of means of egress doors from a space shall be determined based upon the occupant load for the normal occupancy of the space in accordance with the applicable building code.
507.1 Latching mechanisms.
Latching mechanisms shall be permanently mounted on the assembly. Such mechanisms shall require no tools to be engaged in the latched position. Devices such as pins shall be permanently secured to the assembly through the use of chains or wires that must be of corrosion-resistant material.
Latching mechanisms necessary for the door assembly to perform as designed for the storm shelter shall either:
1. Automatically engage when the door is in a closed position and shall not be capable of being disabled, or
2. Be capable of being engaged by an occupant. Signage shall be provided with instructions for latching the door for emergency shelter use.

Storm Shelter Rated Door Assemblies

Arch No.	S/ PR./ Bifold/ O.H.	Fire Label	Opn'g Width	Opn'g Height	Frame Mat.	Frame Type	Jamb Depth	Head	Jamb	Door Thickness	Door Mat.	Door Type	HDW.	Notes
H101A	PR	90 MIN	6' - 0"	7' - 0"	HM	2	5 1/4"	06/A3.0	07/A3.0	1 3/4"	HM	A	HW-3	
H101C	PR	90 MIN	6' - 0"	7' - 0"	HM	2	5 1/4"	06/A3.0	07/A3.0	1 3/4"	HM	A	HW-3	
H101J	PR	-	6' - 0"	7' - 0"	HM	2	5 1/4"	06/A3.0	07/A3.0	1 3/4"	HM	A	HW-3	
H101K	PR	-	6' - 0"	7' - 0"	HM	2	5 1/4"	06/A3.0	07/A3.0	1 3/4"	HM	A	HW-3	
H122	PR	-	6' - 0"	7' - 0"	HM	2	5 1/4"	08/A3.0	09/A3.0	1 3/4"	HM	A	HW-2	

508.1 Signage requirements.
Community storm shelter areas shall be marked by signage in accordance with Sections 508.3 through 508.7, as applicable.
508.4 Directional signage within a host building.
Whore a storm shelter is within a host building, to direct untended occupants to the storm shelter. The path of travel to the storm shelter shall be clearly marked to indicate the direction of travel in cases where the path of travel is not immediately visible to the intended occupants.,

CHAPTER 6
FIRE SAFETY

603.1 Fire Separation.
Walls or horizontal assemblies between community storm shelters and other host building areas shall be fire barriers or horizontal assemblies with a minimum fire-resistance rating of 2 hours constructed in accordance with the applicable code.
604.1 General.
A fire extinguisher shall be required within all community shelters.
604.2 Requirements.
Fire extinguishers shall meet the requirements of NFPA 10. Installation of fire extinguishers shall not compromise the structural or missile impact performance of the exterior shelter envelope.

CHAPTER 7
SHELTER ESSENTIAL FEATURES AND ACCESSORIES

701.2 Protection of critical support systems.
Critical support systems shall remain functional for the design storm event and minimum period of shelter occupancy (2 hours for tornado shelters). Critical support systems located outside of the storm shelter areas shall be protected by a means that meets the wind load and impact requirements of Chapter 3, and, as applicable, the flood resistance requirements of Chapter 4.
702.3 Minimum number water closets and lavatories.
Water closets and lavatories shall be located within the tornado shelter and provided in the minimum number indicated in Table 702.3.

Table 702.3 Required sanitation facilities, tornado shelters

Storm Shelter Type	Toilet Facilities	Hand-Washing Facilities
Community (> 50 occupants)	2 minimum for the first 500 occupants and 1 additional per 500 occupants or portions thereof >500 occupants	1 per 1000 occupants

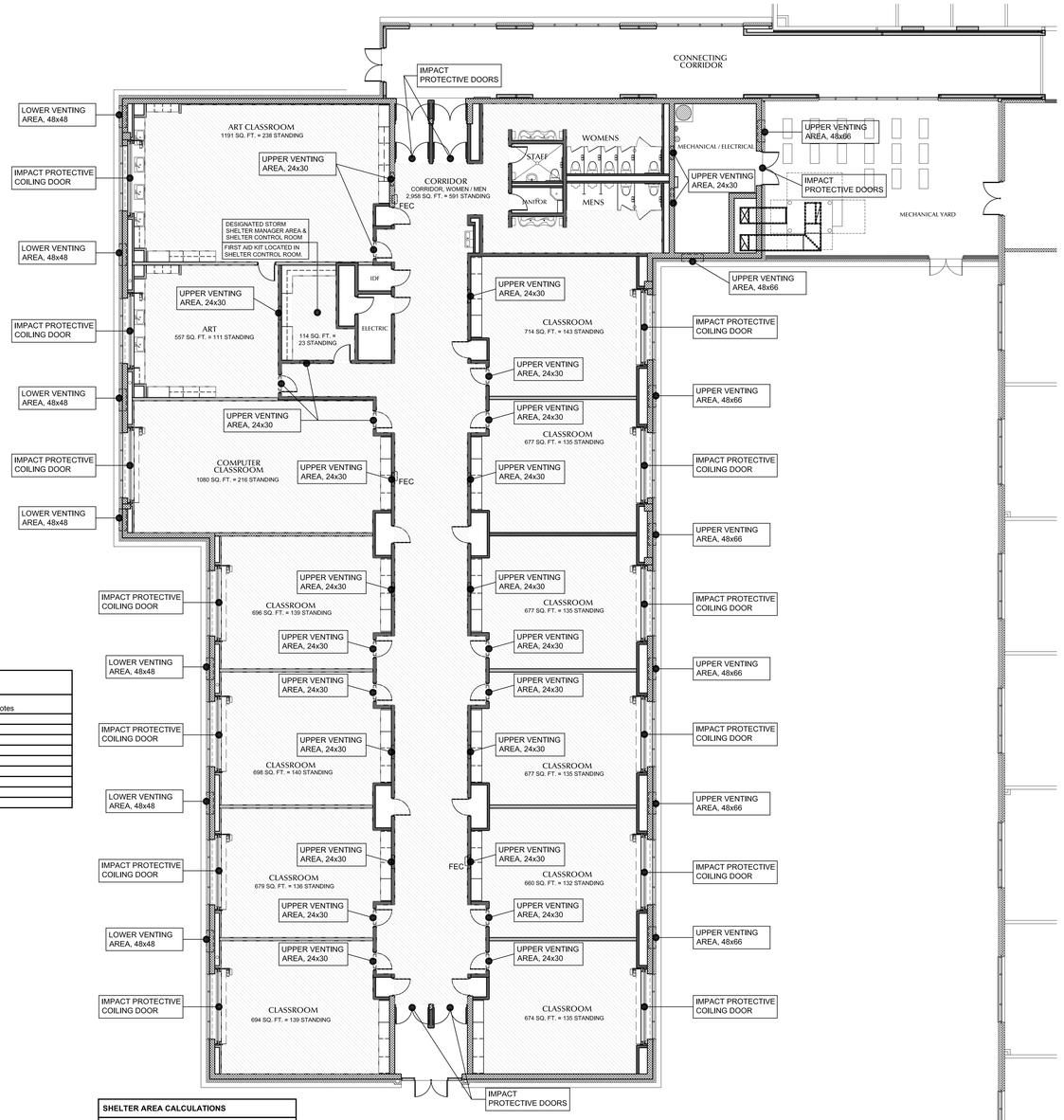
702.4 Ventilation.
Occupied space in tornado shelters shall be ventilated by natural means in accordance with Section 702.4.1 or by mechanical ventilation in accordance with Section 702.4.2. Openings used for atmospheric pressure change (APC) are permitted to be counted as ventilation for the purposes of this section.
702.4.1 Natural ventilation.
Tornado shelters that rely on natural ventilation shall be provided with the minimum ventilation area in accordance with Table 702.4.1.

Table 702.4.1 Venting area required for tornado shelters

Tornado Shelter Type	Venting Area (Per Occupant)
Community (> 50 occupants)	6 square inches

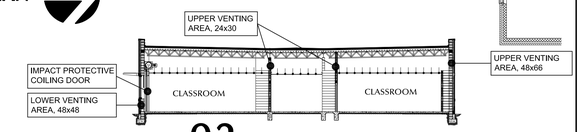
STORM SHELTER SANITATION FACILITIES	
Maximum Capacity of Storm Shelter:	2516 - Standing/Seated 20 - Wheel chair
Toilet Facilities Required for Designed Capacity:	6
Hand-washing Facilities Required for Designed Capacity:	3
Toilet Facilities Provided:	11
Hand-washing Facilities Provided:	6

702.4.2 Mechanical ventilation.
Tornado shelters that rely on mechanical ventilation shall be provided with the minimum mechanical ventilation rate of required outdoor air at a minimum rate of 5 cubic feet per minute per occupant for the design occupant capacity. The mechanical ventilation system shall be connected to a standby power system.
702.5 Standby power.
Where required by Section 702.4 or 702.8 , community tornado shelters shall be provided with a standby power system. The standby power system shall support occupied storm shelter areas and occupant support areas.
702.7 Exit Signs and Emergency lighting.
In community tornado shelters, in the event of a power supply failure, an emergency power system shall supply power for the exit signs and the emergency exit lighting in accordance with the IBC.
702.8 Standby lighting.
Community tornado shelters shall be provided with a standby lighting system. The standby lighting system shall provide illumination levels of not less than 1 foot-candle (11 lux) at the walking surface in occupied storm shelter areas and occupant support areas. The standby lighting system shall be connected to a standby power system.



SHELTER AREA CALCULATIONS
USABLE SHELTER FLOOR AREA: 12,574 SF MAX SHELTER CAPACITY: 2536 (INCLUDING 20 ACCESSIBLE) (PLANNED FACILITY CAPACITY: 2507)
REFER TO SHEET ID1.1 FOR STORM SHELTER SIGNAGE TYPE AND LOCATION

01 G1 STORM SHELTER PLAN 3/32" = 1'-0"



02 G1 SHELTER SECTION 1/16" = 1'-0"

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BOSSIER PARISH SCHOOL BOARD
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BENTON, LOUISIANA 71006

STORM SHELTER CODE ANALYSIS

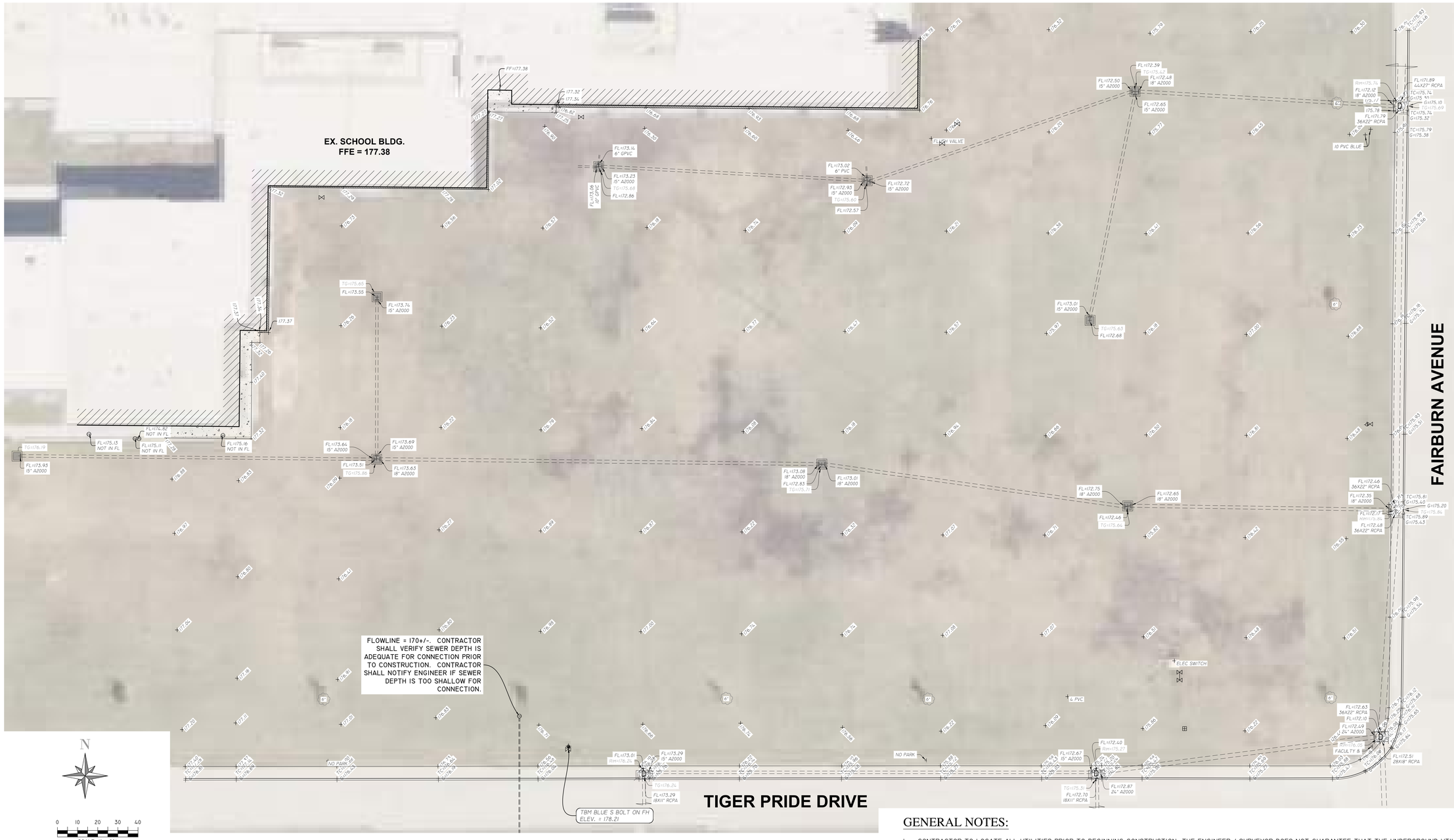
BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

14 JAN 2026

SHEET
G1



N

0 10 20 30 40

SCALE: 1" = 20'

LEGEND

- WATER METER
- WATER VALVE
- SPRINKLER BOX
- SAN. CLEAN OUT
- SAN. MANHOLE
- LIGHT POLE
- ELECTRIC PLUG
- GAS METER
- AIR CONDITIONER
- SIGN (TYPE NOTED)
- EXIST ELEVATION
- EXISTING CONCRETE

TG - TOP OF GRATE
TC - TOP OF CURB
ELEV - ELEVATION
FL - FLOWLINE ELEV.
I.P. - IRON PIPE
TBM - TEMPORARY BENCH MARK
RCP - REINFORCED CONCRETE PIPE
FF - FINISHED FLOOR
G - GUTTER
Fnd. - FOUND
PROP. - PROPERTY

- EXIST. CHAIN LINK (C.L.) FENCE
- EXIST. GAS LINE
- EXIST. DRAINAGE PIPE
- EXIST. HIGH BANK
- EXIST. CL DITCH/SWALE
- MINOR CONTOURS (1' INTERVAL)
- MAJOR CONTOURS (5' INTERVAL)
- PROPERTY LINE
- CENTERLINE OF RIGHT OF WAY
- EXIST. SERVITUDE

UTILITY NOTES:

1.) THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE EXACT LOCATION, DEPTH AND SIZE OF ALL UNDERGROUND UTILITIES AND STRUCTURES, AND SHALL BE LIABLE FOR ANY DAMAGE CAUSED BY FAILURE TO COMPLY WITH THESE INSTRUCTIONS.

GENERAL NOTES:

1. CONTRACTOR TO LOCATE ALL UTILITIES PRIOR TO BEGINNING CONSTRUCTION. THE ENGINEER / SURVEYOR DOES NOT GUARANTEE THAT THE UNDERGROUND UTILITIES OR ALL UTILITY SERVITUDES AFFECTING THIS TRACT ARE SHOWN IN THEIR EXACT LOCATION. THEY HAVE BEEN LOCATED AS ACCURATELY AS POSSIBLE FROM INFORMATION PROVIDED BY ONE CALL OR THE LOCAL UTILITY COMPANY. LOUISIANA ONE CALL 811 OR UTILITY COMPANY.
2. THE ENGINEER, AS REPRESENTATIVE OF THE OWNER, SHALL NOT GUARANTEE THE WORK OF ANY CONTRACTOR OR SUBCONTRACTOR, SHALL HAVE NO AUTHORITY TO STOP WORK, SHALL HAVE NO SUPERVISION OR CONTROL AS TO THE WORK OR PERSONS DOING THE WORK, SHALL NOT HAVE CHARGE OF THE WORK, SHALL NOT BE RESPONSIBLE FOR SAFETY IN, ON, OR ABOUT THE JOB SITE OR HAVE ANY CONTROL OF THE SAFETY OR ADEQUACY OF ANY EQUIPMENT, BUILDING COMPONENT, SCAFFOLDING, SUPPORTS, FORMS, OR OTHER WORK AIDS, AND SHALL HAVE NO DUTIES OR RESPONSIBILITIES IMPOSED BY THE STRUCTURAL WORK ACT.
3. CONTRACTOR SHALL INSTALL SILT FENCES, HAY BALES AND NECESSARY STORM WATER CONTROL MEASURES DURING CONSTRUCTION AS REQUIRED BY THE CITY.
4. CONTRACTOR(S) SHALL KEEP EXISTING PAVING CLEAN OF MUD AND OTHER CONSTRUCTION DEBRIS.
5. ALL TRENCH EXCAVATION SHALL BE PERFORMED IN STRICT ACCORDANCE WITH OSHA REGULATIONS AND APPLICABLE LOCAL CODES AND ORDINANCES.
6. CONTRACTOR SHALL FIELD VERIFY ALIGNMENT AND GRADE OF ALL PAVING, DRAINAGE PIPES AND PROPOSED MAINS. CONFLICTS, DISCREPANCIES OR IRREGULARITIES SHALL BE BROUGHT TO THE IMMEDIATE ATTENTION OF THE OWNER. FAILURE TO DO SO MAY RESULT IN ADDITIONAL COSTS TO THE CONTRACTOR FOR REMOVAL, REPLACEMENT, OR REVISIONS TO ITEMS INSTALLED WITHOUT VERIFICATION BY OWNER.
7. CONTRACTOR SHALL REDISTRIBUTE TOPSOIL IN 4" LAYER AS PER OWNER.
8. CONTRACTOR SHALL COORDINATE AND PROVIDE FOR ALL SAFEGUARDS, SAFETY DEVICES AND REQUIRED JOB SITE SAFETY REGULATIONS AS NEEDED.
9. MATERIALS AND CONSTRUCTION SHALL BE IN STRICT COMPLIANCE WITH LOCAL SPECIFICATION STANDARDS AND/OR LOCAL BUILDING CODES.
10. CONTRACTOR SHALL COORDINATE WITH CITY AND LOCAL UTILITY COMPANIES FOR TYING INTO EXISTING MAINS. ALL UTILITY SERVICES SHALL BE INSTALLED PER CITY CODE AND GOVERNING UTILITY CODE.
11. ALL DISTURBED EARTH TO RECEIVE SLAB SOD UNLESS OTHERWISE DIRECTED BY OWNER/ENGINEER. POSITIVE DRAINAGE SHOULD BE MAINTAINED AT ALL TIMES.
12. MAXIMUM SLOPE IN ANY DIRECTION IN HANDICAP SPACES TO BE 2%.
13. ALL EXITS MUST HAVE A MINIMUM 5' x 5' LEVEL LANDING.
14. MAX. CROSS-SLOPE OF ALL SIDEWALKS = 2%
15. SIDEWALKS TO HAVE A MAXIMUM RISE ALONG PATH OF TRAVEL NOT TO EXCEED 1:20.
16. MAXIMUM SLOPE OF CURB RAMPS NOT TO EXCEED 1:12.

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EXISTING CONDITIONS

BPSB PROJECT #26-02

JOB NO. 2511

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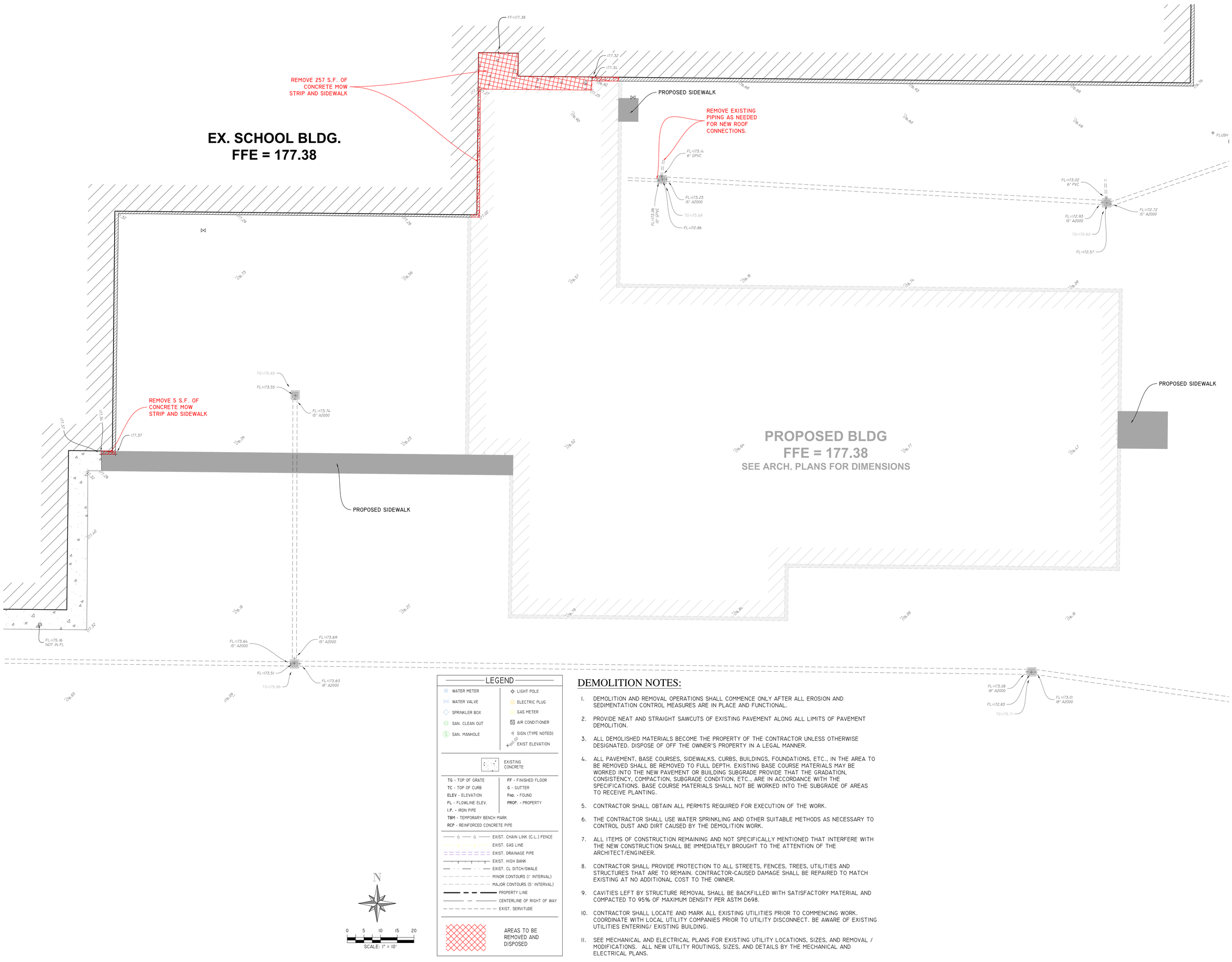

0 5 10 15 20
SCALE: 1" = 10'

LEGEND

- WATER METER
- WATER VALVE
- SPRINKLER BOX
- SAN. CLEAN OUT
- SAN. MANHOLE
- LIGHT POLE
- ELECTRIC PLUG
- GAS METER
- AIR CONDITIONER
- SIGN (TYPE NOTED)
- 100.00 EXIST ELEVATION
- EXISTING CONCRETE

TG - TOP OF GRATE
TC - TOP OF CURB
ELEV - ELEVATION
FL - FLOWLINE ELEV.
I.P. - IRON PIPE
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- MINOR CONTOURS (1' INTERVAL)
- MAJOR CONTOURS (5' INTERVAL)
- PROPERTY LINE
- CENTERLINE OF RIGHT OF WAY
- EXIST. SERVITUDE
- AREAS TO BE REMOVED AND DISPOSED

DEMOLITION NOTES:

1. DEMOLITION AND REMOVAL OPERATIONS SHALL COMMENCE ONLY AFTER ALL EROSION AND SEDIMENTATION CONTROL MEASURES ARE IN PLACE AND FUNCTIONAL.
2. PROVIDE NEAT AND STRAIGHT SAWCUTS OF EXISTING PAVEMENT ALONG ALL LIMITS OF PAVEMENT DEMOLITION.
3. ALL DEMOLISHED MATERIALS BECOME THE PROPERTY OF THE CONTRACTOR UNLESS OTHERWISE DESIGNATED. DISPOSE OF OFF THE OWNER'S PROPERTY IN A LEGAL MANNER.
4. ALL PAVEMENT, BASE COURSES, SIDEWALKS, CURBS, BUILDINGS, FOUNDATIONS, ETC., IN THE AREA TO BE REMOVED SHALL BE REMOVED TO FULL DEPTH. EXISTING BASE COURSE MATERIALS MAY BE WORKED INTO THE NEW PAVEMENT OR BUILDING SUBGRADE PROVIDE THAT THE GRADATION, CONSISTENCY, COMPACTION, SUBGRADE CONDITION, ETC., ARE IN ACCORDANCE WITH THE SPECIFICATIONS. BASE COURSE MATERIALS SHALL NOT BE WORKED INTO THE SUBGRADE OF AREAS TO RECEIVE PLANTING.
5. CONTRACTOR SHALL OBTAIN ALL PERMITS REQUIRED FOR EXECUTION OF THE WORK.
6. THE CONTRACTOR SHALL USE WATER SPRINKLING AND OTHER SUITABLE METHODS AS NECESSARY TO CONTROL DUST AND DIRT CAUSED BY THE DEMOLITION WORK.
7. ALL ITEMS OF CONSTRUCTION REMAINING AND NOT SPECIFICALLY MENTIONED THAT INTERFERE WITH THE NEW CONSTRUCTION SHALL BE IMMEDIATELY BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
8. CONTRACTOR SHALL PROVIDE PROTECTION TO ALL STREETS, FENCES, TREES, UTILITIES AND STRUCTURES THAT ARE TO REMAIN. CONTRACTOR-CAUSED DAMAGE SHALL BE REPAIRED TO MATCH EXISTING AT NO ADDITIONAL COST TO THE OWNER.
9. CAVITIES LEFT BY STRUCTURE REMOVAL SHALL BE BACKFILLED WITH SATISFACTORY MATERIAL AND COMPACTED TO 95% OF MAXIMUM DENSITY PER ASTM D698.
10. CONTRACTOR SHALL LOCATE AND MARK ALL EXISTING UTILITIES PRIOR TO COMMENCING WORK. COORDINATE WITH LOCAL UTILITY COMPANIES PRIOR TO UTILITY DISCONNECT. BE AWARE OF EXISTING UTILITIES ENTERING/ EXISTING BUILDING.
11. SEE MECHANICAL AND ELECTRICAL PLANS FOR EXISTING UTILITY LOCATIONS, SIZES, AND REMOVAL / MODIFICATIONS. ALL NEW UTILITY ROUTINGS, SIZES, AND DETAILS BY THE MECHANICAL AND ELECTRICAL PLANS.

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DEMOLITION PLAN

BOSSIER SCHOOLS "Win the Day!"
BPSB PROJECT #26-02

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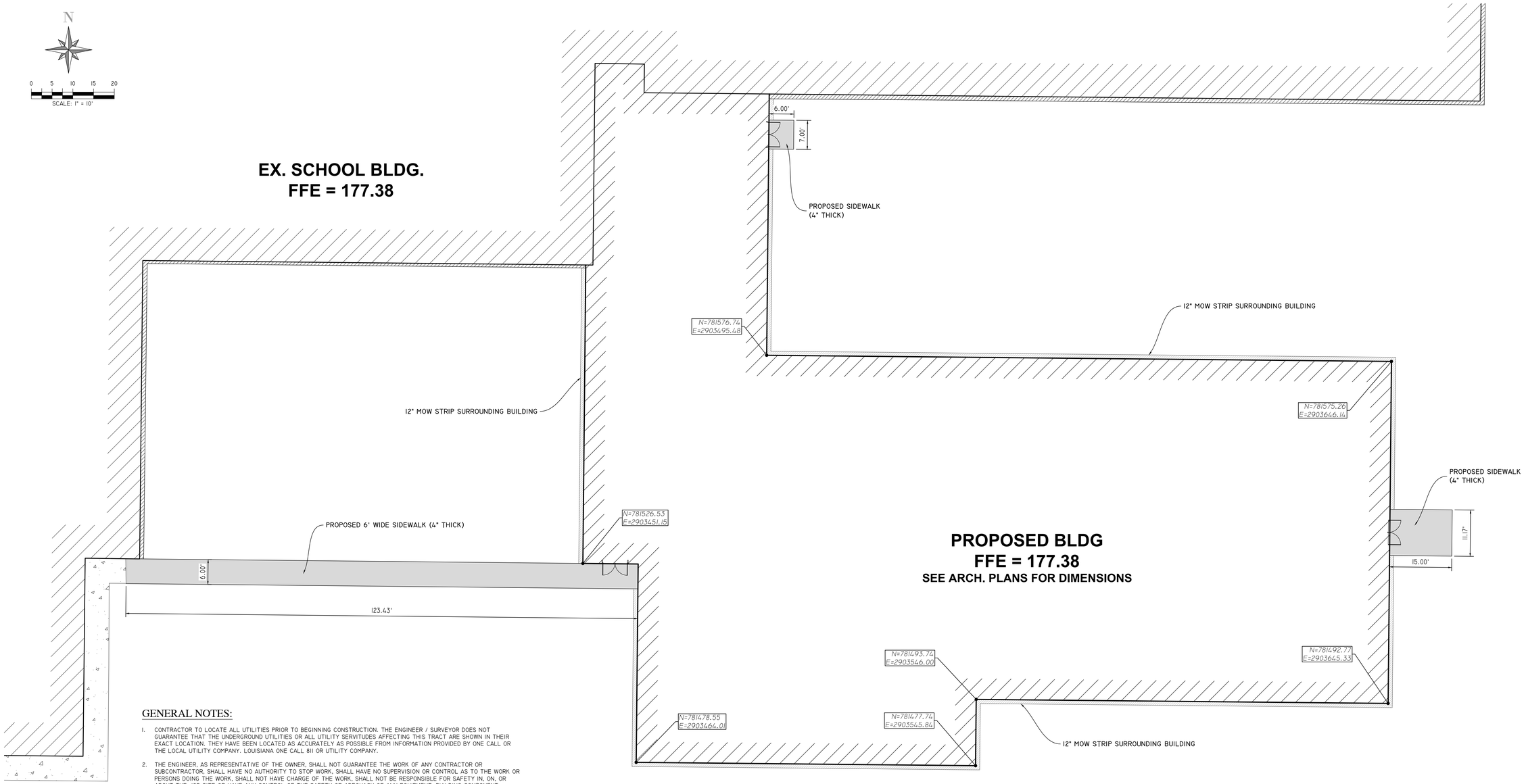

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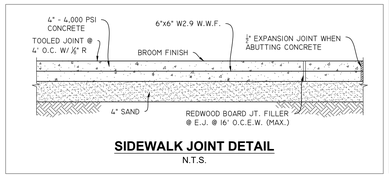
GEOMETRIC NOTES:

1. ALL DIMENSIONS FOR PAVEMENT SHOWN HEREIN, UNLESS OTHERWISE NOTED, ARE TAKEN AT THE BACK OF CURB OR EDGE OF PAVEMENT.



SIDEWALK JOINT DETAIL
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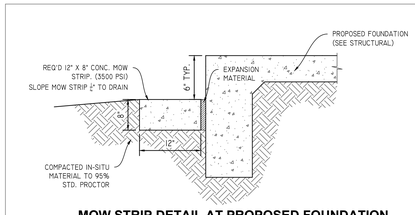

MOW STRIP DETAIL AT PROPOSED FOUNDATION
N.T.S.

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GEOMETRIC LAYOUT

BOSSIER SCHOOLS "Win the Day!"
BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

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C3.0

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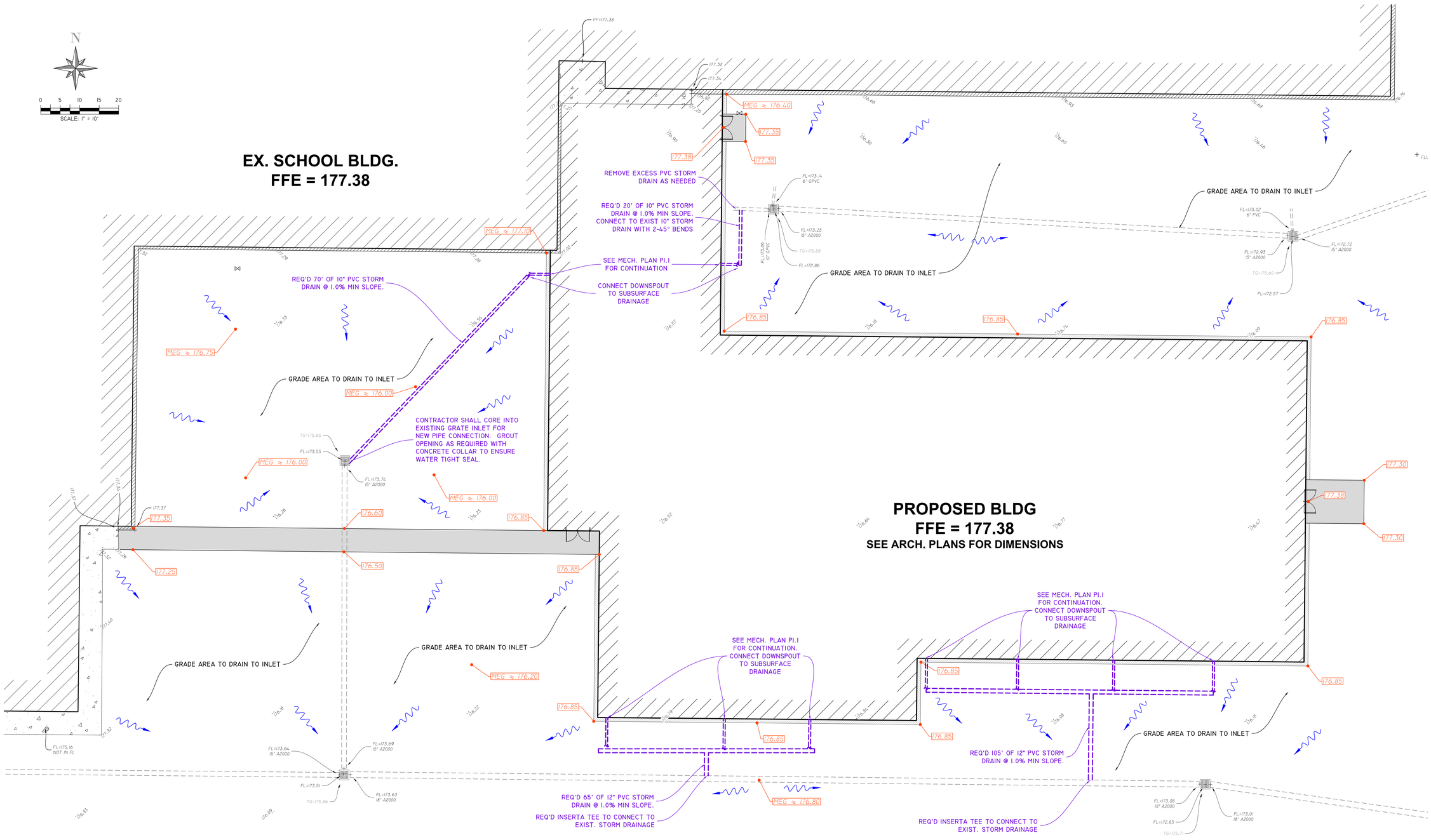

DRAINAGE NOTES:

1. THE MATERIALS AND INSTALLATION USED IN THE CONSTRUCTION OF ALL CATCH BASINS AND DRAINAGE STRUCTURES (I.E. GRATE INLETS, JUNCTION BOXES, ETC.) SHALL CONFORM TO DOTD STANDARD PLANS AND SPECIFICATIONS, LATEST EDITION. CASTINGS SHALL CONFORM TO ASTM DESIGNATION A48-74 CLASS 30B STANDARDS.
2. ALL STORM DRAINAGE PIPE SHALL BE INSTALLED AND BEDDED AS PER THE DOTD STANDARD PLANS AND SPECIFICATIONS.
3. TOP ELEVATIONS OF ALL STRUCTURES WITHIN LIMITS OF PAVEMENT SHALL, UNLESS OTHERWISE NOTED, MATCH THE PROPOSED PAVEMENT ELEVATIONS.
4. ALL STRUCTURES WITHIN LIMITS OF PAVEMENT SHALL HAVE EXPANSION MATERIAL ADJACENT TO EDGE.
5. STORM DRAINAGE PIPE, OUTLETS, AND CHANNELS SHALL BE PROTECTED BY SILT BARRIERS AND KEPT FREE OF WASTE AND SILT AT ALL TIMES PRIOR TO FINAL SURFACE STABILIZATION AND PAVING.

LEGEND

- BENCH MARK
- SURFACE INLET
- GUTTER SLOPE DIRECTION
- EXIST ELEVATION
- TC - TOP OF CURB
- G - GUTTER
- FF - FINISHED FLOOR
- FL - FLOWLINE
- [PROP ELEV]
- EXIST. MINOR CONTOUR (1')
- EXIST. MAJOR CONTOUR (5')
- PROP. MINOR CONTOUR (1')
- PROP. MAJOR CONTOUR (5')
- EXIST. CL DITCH / SWALE
- PROP. CL DITCH / SWALE
- EXIST. DRAINAGE PIPE
- PROP. DRAINAGE PIPE
- PROP. SURFACE FLOW

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BENTON, LOUISIANA 71006
GRADING AND DRAINAGE PLAN

BOSSIER SCHOOLS "Win the Day!"
BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

14 JAN 2026

SHEET

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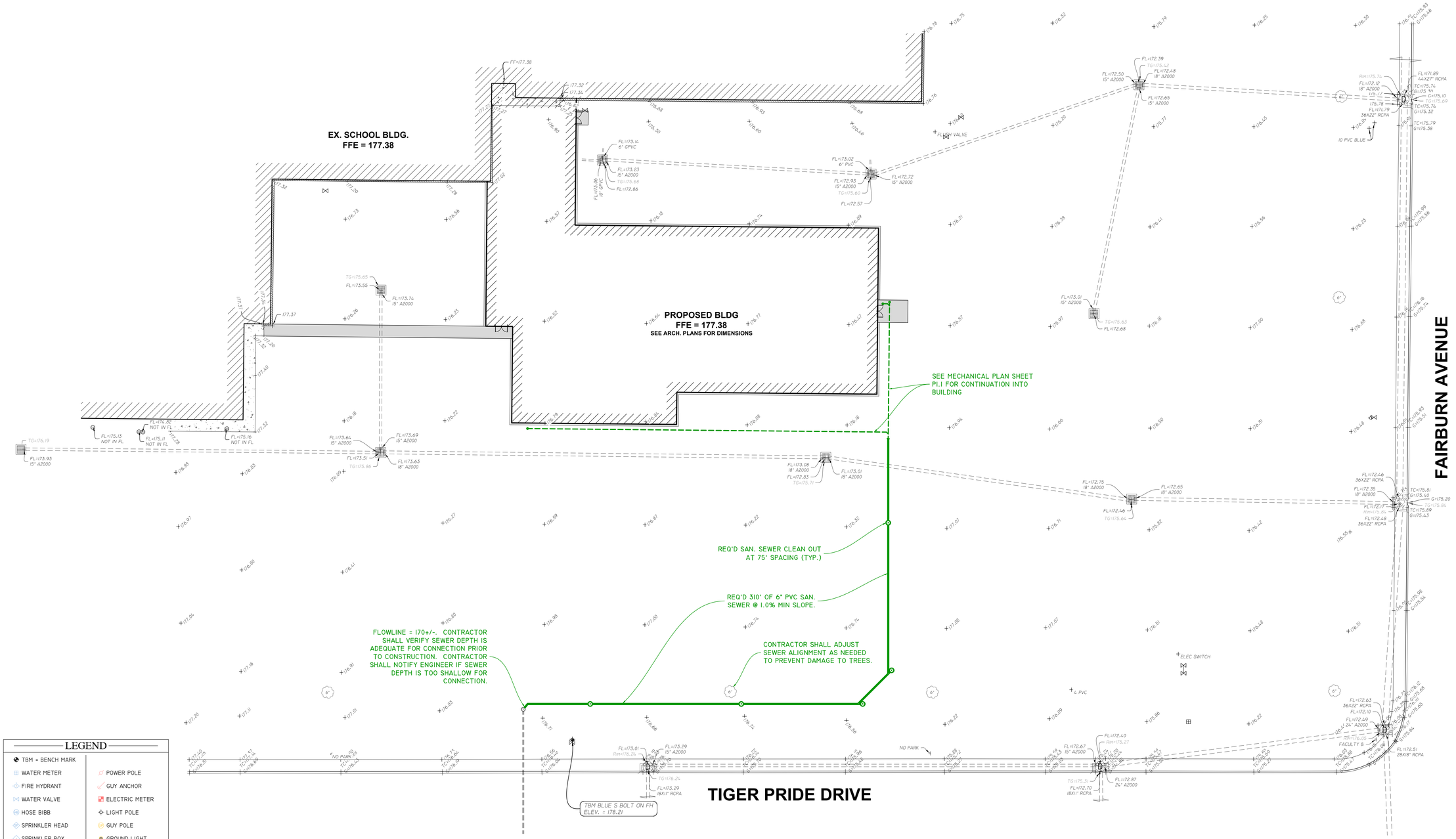

LEGEND

TBM = BENCH MARK	POWER POLE
WATER METER	GUY ANCHOR
FIRE HYDRANT	ELECTRIC METER
WATER VALVE	LIGHT POLE
HOSE BIBB	GUY POLE
SPRINKLER HEAD	GROUND LIGHT
SPRINKLER BOX	ELECTRIC PEDESTAL
SAN. CLEAN OUT	GAS METER
SAN. MANHOLE	GAS VALVE
SURFACE INLET	TELE. PEDESTAL
JUNCTION BOX	CABLE PEDESTAL
GUARD POST	AIR CONDITIONER
HANDICAP RAMP	SIGN (TYPE NOTED)
GATE	

- EXIST. WOOD FENCE
- PROPOSED WOOD FENCE
- EXIST. WATER LINE
- PROP. WATER LINE
- EXIST. SANITARY SEWER LINE
- PROP. SANITARY SEWER LINE
- EXIST. OVERHEAD ELEC. LINE
- EXIST. UNDERGROUND ELEC. LINE
- EXIST. UNDERGROUND TELE. LINE
- DRAINAGE PIPE
- PROPERTY LINE
- CENTERLINE OF RIGHT OF WAY
- BUILDING SETBACK LINE
- EXIST. SERVITUDE/EASEMENT

SEWER NOTES:

1. ALL SEWER MAINS SHALL CONFORM TO ASTM D-3034 SDR-35 STANDARDS FOR PVC BELL AND SPIGOT PIPE.
2. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE SELECT MATERIAL FOR BACKFILL IF EXISTING MATERIAL DOES NOT MEET MINIMUM STANDARDS. IT WILL ALSO BE THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE COMPACTION TESTS OF BACKFILL AT CROSSINGS. THE COST OF SELECT MATERIAL AND COMPACTION TESTS SHALL BE INCLUDED IN THE UNIT PRICES.
3. IT WILL BE THE RESPONSIBILITY OF THE UTILITY CONTRACTOR TO ADJUST THE TOP OF ALL CLEANOUTS TO GRADE AFTER FINISH GRADING HAS BEEN COMPLETED BY THE BUILDING CONTRACTOR.

ELECTRIC:

VERIFY ALL LIGHTING/ELECTRIC WITH ARCHITECT/OWNER/LIGHTING PLAN/POWER COMPANY PRIOR TO CONSTRUCTION. PARKING LIGHTING IS LOCATED ON BUILDING. SEE ELECTRICAL PLAN.

NOTE:
VERIFY ALL WATER AND SEWER TIE-IN LOCATIONS WITH MOST CURRENT MEP PLANS.

N

0 10 20 30 40
SCALE: 1" = 20'

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STATE OF LOUISIANA
T. RYAN ESTESS
License No. 39033
PROFESSIONAL ENGINEER IN CIVIL ENGINEERING
Ryan Estess

NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
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UTILITY PLAN

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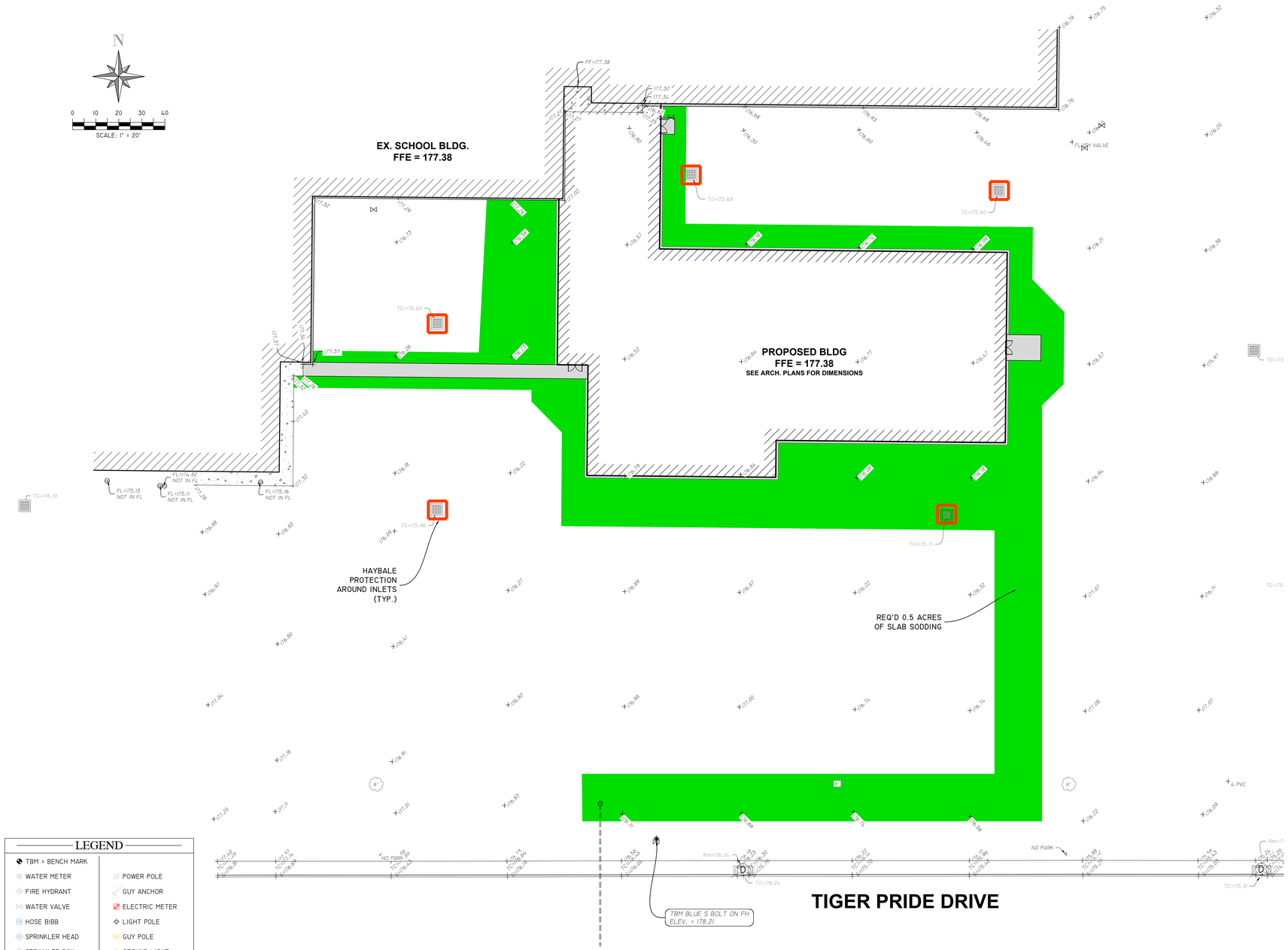

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DRAINAGE PIPE
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CENTERLINE OF RIGHT OF WAY
BUILDING SETBACK LINE
EXIST. SERVITUDE/EASEMENT

LEGEND

	PROPOSED 5 S.Y. OF 30# RIP RAP OVER 7 OZ FILTER FABRIC
	INLET/S (SEE PLAN FOR TYPE) W/ EROSION CONTROL
	PROPOSED HAY BALE DIKE
	PROPOSED FLOW
	REQ'D SLAB SODDING (0.5 AC. TOTAL)
SF	PROPOSED SILT FENCING (926 L.F. TOTAL)

EROSION CONTROL NOTES:

1. THE NATURE OF CONSTRUCTION ACTIVITY IS THE DEVELOPMENT OF A COMMERCIAL SITE.
2. MAJOR ACTIVITIES AND CONTRACTOR RESPONSIBLE ARE AS FOLLOWS:
   - A. CLEARING AND DEGRASSING - PAVING AND DRAINAGE CONTRACTOR. INSTALL SILT FENCING, HAYBALES, DETENTION BASIN AND OTHER NECESSARY STORM WATER CONTROLS PRIOR TO BEGINNING OF CLEARING AND DEGRASSING.
   - B. WATER AND SEWER - WATER AND SEWER CONTRACTOR SHALL COORDINATE W/ PAVING CONTRACTOR TO ENSURE SILT FENCING, HAYBALES AND OTHER, ARE INSTALLED AT R/W TO PREVENT RUNOFF FROM LEAVING THE SITE.
   - C. EXCAVATION - PAVING AND DRAINAGE CONTRACTOR SHALL INSTALL SILT FENCING AND HAYBALES TO PREVENT RUNOFF FROM LEAVING THE SITE.
   - D. STORM DRAINAGE - PAVING AND DRAINAGE CONTRACTOR SHALL INSTALL SILT FENCING AND HAYBALES TO PREVENT RUNOFF FROM LEAVING THE SITE AND DETENTION BASINS.
   - E. BUILDING CONSTRUCTION - GENERAL CONTRACTOR. INSTALL NECESSARY STORM WATER CONTROLS DURING CONSTRUCTION.
   - F. PAVING - PAVING AND DRAINAGE CONTRACTOR. INSTALL NECESSARY STORM WATER CONTROLS DURING CONSTRUCTION.
   - G. GAS, ELECTRIC, PHONE & CABLE - EACH UTILITY OWNER / CONTRACTOR.
3. EACH CONTRACTOR LISTED ABOVE IS RESPONSIBLE FOR BEING KNOWLEDGEABLE OF THEIR LISTED ACTIVITY. AS SUCH EACH CONTRACTOR SHALL PROVIDE TO OWNER OR OWNER'S AGENT A DETAILED SCHEDULE OF CONSTRUCTION ACTIVITIES FOR THEIR PHASE OF CONSTRUCTION.
4. THE EROSION CONTROL PLAN SHOWN IS PROVIDED AS A MINIMUM GUIDE TO BE SUPPLEMENTED BY EACH CONTRACTOR'S DETAILED DESCRIPTION OF CONTROL MEASURES. THE DETAIL SHEET PROVIDES SPECIFIC CONTROLS WHICH MAY BE USED BY CONTRACTORS ON THIS SITE.
5. CONTROLS ARE DESIGNED TO RETAIN SEDIMENT ON SITE. ANY SEDIMENT ESCAPING THE SITE AND ACCUMULATING MUST BE REMOVED. UPON FINAL COMPLETION DETENTION BASIN SHALL BE CLEANED OF CONSTRUCTION SEDIMENTATION PRIOR TO FINAL GRADING.
6. EACH CONTRACTOR SHALL PROVIDE TO OWNER OR OWNER'S AGENT A DETAILED DESCRIPTION OF "BEST MANAGEMENT PRACTICES", STRUCTURAL PRACTICES (SILT FENCES, CHECK DAMS, ETC.), AND STABILIZATION PRACTICES (TEMPORARY VEGETATION, SOD, ETC.) WHICH COMPLIES WITH THE SHORT AND LONG TERM GOALS AND INTENT OF THE LOUISIANA WATER DISCHARGE PERMIT FOR THEIR PHASE OF CONSTRUCTION ACTIVITIES. CONTRACTOR SHALL PROVIDE SAME INFORMATION TO THE PERMIT OFFICE.
7. THE CONTRACTOR FOR EACH LISTED PHASE OF CONSTRUCTION SHALL BE RESPONSIBLE FOR MAINTAINING DATES AND RECORDS AND FORWARDING TO DEVELOPER/OWNER FOR THE FOLLOWING INFORMATION: BEGINNING CONSTRUCTION, MAJOR GRADING ACTIVITIES, SOIL DISTRIBUTING ACTIVITIES, WHEN STABILIZATION MEASURES ARE INITIATED AND COMPLETED, TEMPORARY HALTS, AND COMPLETION OF THEIR PORTION OF PROJECT.
8. THE CONTRACTOR IN CHARGE OF EROSION CONTROL SHALL INITIATE STABILIZATION MEASURES OF DISTURBED AREAS WHERE CONSTRUCTION HAS TEMPORARILY OR PERMANENTLY CEASED WITHIN 14 DAYS, UNLESS EARTH DISTURBING ACTIVITIES ARE TO RESUME WITHIN 21 DAYS.
9. EACH CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING (REPAIR SILT FENCE, REMOVE SEDIMENT BUILDUP, ETC.) STRUCTURAL CONTROLS LAID OUT IN STORM WATER POLLUTION PREVENTION PLAN AS WELL AS ANY ADDITIONAL CONTROLS IN CONTRACTOR'S DETAILED DESCRIPTION.
10. THE CONTRACTOR FOR EACH LISTED PHASE OF CONSTRUCTION SHALL BE RESPONSIBLE FOR PROVIDING INSPECTIONS OF DISTURBED AREAS AND STRUCTURAL CONTROLS EVERY 14 DAYS OR WITHIN 24 HOURS OF A STORM EVENT. A REPORT SUMMARIZING INSPECTION AND ANY MAINTENANCE TAKEN SHALL BE FILLED OUT AND FORWARDED TO DEVELOPER/OWNER.
11. ALL COMPLETED INSPECTION REPORTS ARE TO BE KEPT WITH THE SWPP PLAN IN THE CONTRACTOR'S, DEVELOPER'S & OWNER'S FILES.
12. GENERAL CONTRACTOR TO PROVIDE PERMANENT SOIL STABILIZATION AT COMPLETION OF CONSTRUCTION.
13. THE CONTRACTOR IN CHARGE OF EROSION CONTROL SHALL BE RESPONSIBLE FOR SWEEPING ACCUMULATED SILT, MUD, SOIL, DEBRIS AND LITTER AT END OF EACH CONSTRUCTION DAY.
14. LITTER, CONSTRUCTION DEBRIS, AND CONSTRUCTION CHEMICALS SHALL BE PREVENTED FROM BECOMING A POLLUTANT SOURCE FOR STORM WATER DISCHARGES.
15. THE CONTRACTOR IN CHARGE OF EROSION CONTROL MUST ASSURE THAT ADJACENT ROADWAYS AND SHOULDERS ARE OPENED AND MAINTAINED FOR SAFE TRAVEL. IMMEDIATE ACTION SHOULD BE TAKEN TO REMOVE DEBRIS, MUD, EXCESS CONSTRUCTION WATER AND ANY OTHER UNSAFE ITEMS FROM THE ROADWAYS, SHOULDERS AND / OR NEARBY CONSTRUCTION SITES. FAILURE TO COMPLY MAY RESULT IN CITY / OWNER CLEANING UP AND THE COST BEING SUBTRACTED FROM THE CONTRACT.
16. SITE DATA:
    TOTAL AREA = 1.6 ACRES
    AREA DISTURBED BY DEVELOPMENT OF SITE = 1.5 ACRES
    OVERALL RUNOFF COEFFICIENTS EXISTING CN = 0.35
    DEVELOPED CN= 0.65
    RECEIVING BODY = ONSITE DETENTION POND THAT FLOWS INTO FLAT RIVER
17. THE CONTRACTOR SHALL USE QUALIFIED PERSONNEL TO INSPECT DISTURBED AREAS OF THE CONSTRUCTION SITE THAT HAVE NOT BEEN FINALLY STABILIZED, AREAS USED FOR STORAGE OF MATERIALS THAT ARE EXPOSED TO PRECIPITATION, STRUCTURAL CONTROL MEASURES, AND LOCATIONS WHERE VEHICLES ENTER OR EXIT THE SITE AT LEAST ONCE EVERY 14 CALENDAR DAYS, BEFORE SIGNIFICANT STORM EVENTS, AND WITHIN 24 HOURS OF THE END OF A STORM EVENT OF 0.5 INCHES OR GREATER.
18. GENERAL CONTRACTOR TO PROVIDE DUMPSTERS OR OTHER CITY APPROVED WASTE DISPOSAL PRACTICES DURING CONSTRUCTION.
19. NO CRITICAL HABITATS FOR THREATENED OR ENDANGERED SPECIES ARE FOUND IN PROXIMITY BY OTHERS. NO HISTORIC PROPERTIES HAVE BEEN IDENTIFIED IN THE CONSTRUCTION ACTIVITY AREA OR STORM WATER DISCHARGE PATH BY OTHERS.
20. A COPY OF THE EROSION CONTROL PLAN SHALL BE KEPT ON THE JOB UNTIL FINAL VEGETATION, STABILIZATION, AND CONSTRUCTION IS COMPLETE.
21. PERMITTEE SHALL BE RESPONSIBLE FOR COMPLIANCE WITH THE ABOVE ITEMS AND COORDINATE WITH ALL CONTRACTORS / SUBCONTRACTORS WORKING ON THIS PROJECT WITH REGARDS TO ALL STORM WATER REGULATIONS. PERMITTEE SHALL PROVIDE ALL REQUIRED CONTACT INFORMATION TO THE LOCAL STORM WATER PERMITTING AGENCY HAVING JURISDICTION PRIOR TO BEGINNING CONSTRUCTION.

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EROSION AND SEDIMENTATION CONTROL PLAN

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STANDARD FOR LAND GRADING

DEFINITION

RESHAPING OF THE EXISTING TOPOGRAPHY IN ACCORDANCE WITH A PLAN AS DETERMINED BY ENGINEERING SURVEYS, DESIGN & LAYOUT.

PURPOSE

LAND GRADING IS USED FOR ONE OR MORE OF THE FOLLOWING PURPOSES: PROVIDE MORE SUITABLE SITES FOR BUILDING, FACILITIES, AND OTHER LAND USES; IMPROVE SURFACE DRAINAGE AND CONTROL EROSION.

DESIGN CRITERIA

THE LAND GRADING PLAN AND INSTALLATION SHALL BE BASED UPON ADEQUATE SURVEYS AND INVESTIGATIONS. THE PROPOSED LAND USE AND GRADING PLAN SHOULD FIT AND UTILIZE EXISTING TOPOGRAPHY AND NATURAL SURROUNDINGS AND MAKE EXTREME GRADE MODIFICATIONS UNNECESSARY. THE PLAN IS TO SHOW THE LOCATION, SLOPE, CUT, FILL AND FINISH ELEVATION OF THE SURFACES TO BE GRADED AND THE AUXILIARY PRACTICES FOR SAFE DISPOSAL OF RUNOFF WATER, SLOPE STABILIZATION, EROSION CONTROL, AND DRAINAGE SUCH AS WATERWAYS, LINED CHANNELS, DEVERSIONS, GRADE STABILIZATION STRUCTURES, RETAINING WALLS, AND SURFACE AND SUBSURFACE DRAINS.

THE GRADING PLAN SHALL BE IN ACCORDANCE WITH THE FOLLOWING

DESIGN CRITERIA:

1. THE CUT FACE OF EARTH EXCAVATION WHICH IS TO BE VEGETATED SLOPES OF MATERIALS NOT TO BE VEGETATED SHALL BE AT THE SAFE ANGLE OF REPOSE FOR THE MATERIALS ENCOUNTERED. UNVEGETATED CUT SLOPES SHALL BE PROTECTED BY MECHANICAL TREATMENT TO PROTECT THEM FROM EROSION.
2. THE PERMANENT EXPOSED FACES OF FILLS SHALL BE NO STEEPER THAN 3 HORIZONTAL TO 1 VERTICAL.
3. PROVISIONS ARE TO BE MADE TO SAFELY CONDUCT SURFACE WATER TO STORM DRAINS OR SUITABLE NATURAL WATER COURSES AND TO PREVENT SURFACE RUNOFF FROM DAMAGING CUT FACES AND FILL SLOPES.
4. SUBSURFACE DRAINAGE IS TO BE PROVIDED IN AREAS HAVING HIGH WATER TABLE OR SEEPAGE CONDITIONS THAT WOULD AFFECT SLOPE STABILITY, BUILDING FOUNDATIONS, CREATE UNDESIRABLE WETNESS.
5. EXCAVATIONS SHALL NOT BE MADE SO CLOSE TO PROPERTY LINES AS TO ENDANGER ADJOINING PROPERTY WITHOUT SUPPORTING AND PROTECTING SUCH PROPERTY FROM EROSION, SLIDING, SETTLING, OR CRACKING.
6. NO FILL IS TO BE PLACED WHERE IT WILL SLIDE, OR WASH UPON THE PREMISES OF ANOTHER OR SO PLACED ADJACENT TO THE BANK OF A CHANNEL AS TO CREATE BANK FAILURE OR REDUCE THE NATURAL CAPACITY
7. OF THE STREAM.
8. FILLS ARE TO CONSIST OF MATERIAL FROM CUT AREAS, BORROW PITS, OR OTHER APPROVED SOURCES.

GENERAL NOTES

1. TIMBER, LOGS, BRUSH, RUBBISH, AND VEGETATIVE MATTER THAT WILL INTERFERE WITH THE GRADING OPERATION OR AFFECT THE PLANNED STABILITY OF FILL AREAS SHALL BE REMOVED AND DISPOSED OF ACCORDING TO THE PLAN. AVOID UNNECESSARY REMOVAL OF TREES AND VEGETATION THAT COULD BE LEFT TO ENHANCE THE ATTRACTIVENESS OF THE DEVELOPMENT.
2. TOP SOIL IS TO BE STRIPPED AND STOCKPILED IN AMOUNTS NECESSARY TO COMPLETE FINISH GRADING OF ALL EXPOSED AREAS REQUIRING TOPSOIL FOR THE ESTABLISHMENT OF VEGETATION.
3. FILL MATERIAL IS TO BE FREE OF BRUSH, RUBBISH, ROCKS, LOGS, AND STUMPS IN AMOUNTS THAT WILL BE DETRIMENTAL TO CONSTRUCTING STABLE FILLS.
4. CUT SLOPES WHICH ARE TO BE TOPSOILED WILL BE SCARIFIED TO A MINIMUM DEPTH OF 3 INCHES PRIOR TO PLACEMENT OF TOPSOIL.
5. ALL FILLS INTENDED TO SUPPORT BUILDINGS, STRUCTURES, SEWERS AND CONDUITS SHOULD BE TESTED FOR STRENGTH AND THE FOUNDATIONS DESIGNED ACCORDINGLY. COMPACTION OF OTHER FILLS WILL BE AS REQUIRED TO REDUCE SLIPPING, EROSION, OR EXCESS SATURATION.
6. MAXIMUM THICKNESS OF LAYERS OF FILLS ARE NOT TO EXCEED 8 INCHES.
7. ALL AREAS ARE TO BE ROUGH GRADED TO WITHIN 0.2 FOOT OF THE PLANNED ELEVATION AFTER ALLOWANCE HAS BEEN MADE FOR THICKNESS OF TOPSOIL, PAVING, OR OTHER INSTALLATIONS.
8. ALL DISTURBED AREAS SHALL BE LEFT IN A WELL DRAINED, NEAT, AND FINISHED APPEARANCE.

STANDARDS FOR HAY BALE DIKE

DEFINITION

A TEMPORARY BARRIER CONSTRUCTED WITH HAY BALES WITH A LIFE EXPECTANCY OF 3 MONTHS OR LESS, INSTALLED ACROSS OR AT THE TOE OF A SLOPE.

PURPOSE

A PURPOSE OF A HAY BALE DIKE IS TO INTERCEPT AND DETAIN SMALL AMOUNTS OF SIDEMENT FROM UNPROTECTED AREAS OF LIMITED EXTENT.

CONDITIONS WHERE PRACTICE APPLIES

THE HAY BALE DIKE IS USED WHERE:

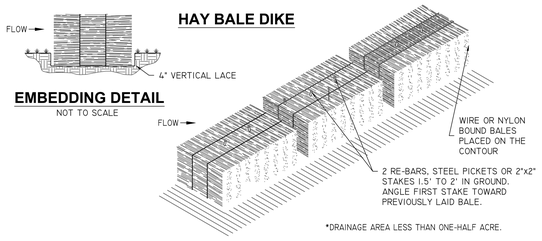
1. NO OTHER PRACTICE IS FEASIBLE . AND
2. THERE IS NO CONCENTRATION OF WATER IN A CHANNEL OR OTHER DRAINAGE WAY ABOVE THE BARRIER AND
3. EROSION WOULD OCCUR IN THE FORM OF SHEET AND RILL EROSION, AND
4. CONTRIBUTING DRAINAGE AREA IS LESS THAN ONE-HALF ACRE AND THE LENGTH OF SLOPE ABOVE THE DIKE AND LESS THAN 100 FEET. THE PRACTICE MAY ALSO BE USED FOR ALONE, SINGLE FAMILY LOT IF THE SLOPE IS LESS THAN 15 PERCENT. THE CONTRIBUTING DRAINAGE AREA IN THIS INSTANCE SHALL BE LESS THAN 1 ACRE AND THE LENGTH OF SLOPE ABOVE THE DIKE SHALL BE LESS THAN 200 FEET.

DESIGN CRITERIA

A DESIGN IS NOT REQUIRED. ALL BALES SHALL BE PLACED ON THE CONTOUR AND SHALL BE EITHER WIRE BOUND OR NYLON STRING TIED. SEE STANDARD DRAWING FOR HAY BALE DIKE FOR DETAILS.

GENERAL NOTES

1. BALES SHALL BE PLACED IN A ROW WITH END TIGHTLY ABUTTING THE ADJACENT BALES.
2. EACH BALE SHALL BE EMBEDDED IN THE SOIL A MINIMUM OF FOUR INCHES, WHERE POSSIBLE.
3. BALES SHALL BE SECURELY ANCHORED IN PLACE BY STAKES OR REBARS DRIVEN THROUGH THE BALES. THE FIRST STAKE IN EACH BALE SHALL BE ANGLED TOWARD PREVIOUSLY LAID BALE TO FORCE BALE TOGETHER.
4. INSPECTION SHALL BE FREQUENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED BY CONTRACTOR.
5. BALES SHALL BE REMOVED WHEN THEY HAVE SERVED THEIR USEFULNESS SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE.
6. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES.



EMBEDDING DETAIL
NOT TO SCALE

ANCHORING DETAIL
NOT TO SCALE

STANDARDS FOR SEDIMENT TRAP

DEFINITION

A SMALL TEMPORARY PONDING AREA FORMED BY CONSTRUCTING AN EARTHEN EMBANKMENT TO INTERCEPT SEDIMENT-LADEN RUNOFF AND TO TRAP AND RETAIN SEDIMENT.

PURPOSE

TO DETAIN SEDIMENT-LADEN RUNOFF FROM SMALL DISTURBED AREAS LONG ENOUGH TO ALLOW THE MAJORIRY OF THE SEDIMENT TO SETTLE OUT.

CONDITIONS WHERE PRACTICE APPLIES

INSTALLED AT POINTS OF DISCHARGE FROM DISTURBED AREA FOR A MAXIMUM PERIOD OF 10 MONTHS.

DESIGN CRITERIA

IF ANY OF THE DESIGN CRITERIA PRESENTED HERE CAN NOT BE MET SEE STANDARDS FOR SEDIMENT BASIN.

DRAINAGE AREA - SHALL BE LESS THAN 5 ACRES.

LAYOUT - SHALL BE LOCATED TO MAXIMIZE STORAGE BENEFIT FROM TERRAIN, FOR EASE OF CONSTRUCTION.

SIZE - THE VOLUME OF THE TRAP MEASURED BELOW THE CREST OF THE OUTLET SHALL BE AT LEAST 1000 CUBIC FEET PER ACRE OF DRAINAGE AREA.

CLEANOUT - SEDIMENT SHALL BE REMOVED AND THE TRAP RESTORED TO ITS ORIGINAL CAPACITY WHEN THE SEDIMENT HAS ACCUMULATED TO ONE HALF OF THE DESIGN VOLUME OR 1 FOOT, WHICHEVER IS LESS.

EMBANKMENT - THE EMBANKMENT SHALL HAVE A 3 FOOT TOP WIDTH, SIDE SLOPES OF 2:1 OR FLATTER, AND SHALL NOT EXCEED 5 FEET IN HEIGHT AS MEASURED AT THE LOW POINT OF THE ORIGINAL GROUND LINE. FILL MATERIAL SHALL BE FREE OF WOODY VEGETATION, LARGE STONES, AND OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED IN EIGHT-INCH LAYERS BY TRAVERSING WITH CONSTRUCTION EQUIPMENT.

EXCAVATION - ANY EXCAVATED PORTION OF SEDIMENT TRAP SHALL HAVE 2:1 OR FLATTER SLOPES. CARE SHALL BE TAKEN TO MINIMIZE EROSION AND WATER POLLUTION DURING EXCAVATION OPERATIONS.

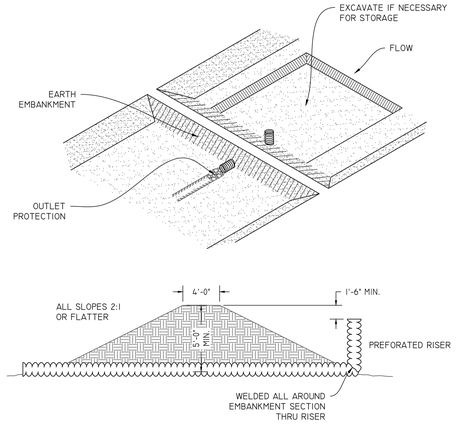
OUTLET

1. AREA UNDER EMBANKMENT SHALL BE CLEARED. GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED. RISER DIAMETER SHALL BE ONE SIZE LARGER THEN THE PIPE. THE RISER SHALL BE WRAPPED WITH THREE LAYERS OF 125 MILS THICK NON-WOVEN U-V RESISTANT FILTER CLOTH. THE PORTION OF THE RISER ABOVE THE PIPE CONNECTIONS SHALL BE PERFORATED WITH ONE 1/2-INCH DIAMETER HOLE PER 40 SQUARE INCHES OF SURFACE AREA. THE RISER CREST SHALL BE 1-1/2 FEET BELOW THE TOP OF THE EMBANKMENT.
2. UNLESS OTHERWISE SPECIFIED, PIPE SIZES SHALL BE SELECTED FROM THE FOLLOWING TABLE :

PIPE DIAMETER D. (INCHES)	MAXIMUM DRAINAGE AREA (ACRES)
12	0.75
15	1.25
18	2.0
21	3.0
24	5.0

GENERAL NOTES

1. AREA UNDER EMBANKMENT SHALL BE CLEARED. GRUBBED AND STRIPPED OF ANY VEGETATION AND ROOT MAT. THE POOL AREA SHALL BE CLEARED.
2. THE FILL MATERIAL FOR EMBANKMENT SHALL BE FREE OF ROOTS OF OTHER WOODY VEGETATION, AS WELL AS STONES, ROCKS, ORGANIC MATERIAL, OR OTHER OBJECTIONABLE MATERIAL. THE EMBANKMENT SHALL BE COMPACTED BY TRAVERSING WITH EQUIPMENT WHILE IT IS BEING CONSTRUCTED.
3. SEDIMENT SHALL BE REMOVED AND TRAP RESTORED TO ITS ORIGINAL DIMENSIONS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-HALF THE DESIGN DEPTH OF THE TRAP OR 1 FOOT, WHICHEVER IS LESS. REMOVED SEDIMENT SHALL BE DEPOSITED IN AN APPROVED AREA AND IN SUCH A MANNER THAT IT WILL NOT ERODE.
4. THE STRUCTURE SHALL BE INSPECTED AFTER EACH RAIN AND REPAIRS MADE AS NEEDED BY THE CONTRACTOR.
5. CONSTRUCTION OPERATIONS SHALL BE CARRIED OUT IN SUCH A MANNER THAT EROSION AND WATER POLLUTION IS MINIMIZED.
6. THE STRUCTURE SHALL BE REMOVED AND AREA STABILIZED WHEN THE DRAINAGE AREA HAS BEEN PROPERLY STABILIZED.
7. ALL CUT AND FILL SLOPES SHALL BE 2:1 OR FLATTER.
8. ALL PIPE CONNECTIONS SHALL BE WATERTIGHT.



SEDIMENT TRAP
NOT TO SCALE

STANDARDS FOR SILT FENCE

DEFINITION

TEMPORARY BARRIER FENCE MADE OF BURLAP OR POLYPROPYLENE MATERIAL WHICH IS WATER PERMEABLE BUT WILL TRAP WATER - BORNE SEDIMENT.

PURPOSE

TO INTERCEPT AND DETAIN WATER-BORNE SEDIMENT FROM UNPROTECTED AREA OF LIMITED EXTENT.

CONDITIONS WHERE PRACTICE APPLIES

SILT FENCE IS USED DURING THE PERIOD OF CONSTRUCTION NEAR THE PERIMETER OF A DISTURBED AREA TO INTERCEPT SEDIMENT WHILE ALLOWING WATER TO PERCOLATE THROUGH. THIS FENCE SHALL REMAIN IN PLACE UNTIL THE DISTURBED AREA IS PERMANENTLY STABILIZED. SILT FENCE SHOULD NOT BE USED WHERE THERE IS A CONCENTRATION OF WATER IN A CHANNEL OR OTHER DRAINAGE WAY.

DESIGN CRITERIA

SILT FENCE SHALL NOT BE CONSTRUCTED OUTSIDE THE PROPERTY LINES WITHOUT OBTAINING EASEMENTS FROM THE AFFECTED PROPERTY OWNERS. A DESIGN IS NOT REQUIRED FOR THE INSTALLATION OF SILT FENCE, HOWEVER THE FOLLOWING CRITERIA SHALL BE OBSERVED:

DRAINAGE AREA - LESS THAN 2 ACRES.

HEIGHT - 36 INCH MINIMUM HEIGHT MEASURED FROM THE EXISTING OR GRADED GROUND.

MATERIAL - BURLAP WEIGHING APPROXIMATELY 7-1/2 OUNCES PER SQUARE YARD OR APPROVED JUTE FABRIC OR GEOTEXTILE FABRIC.

SUPPORT - STEEL OR WOOD FENCE POSTS SPACED A MAXIMUM OF 8 FEET APART. POST SHALL HAVE A MINIMUM LENGTH OF 5 FEET AND BE SET AT LEAST 18 INCH DEEP. WOVEN LIVESTOCK WIRE TO SUPPORT THE MATERIAL SHALL BE AT LEAST 36 INCH HIGH WITH A MAXIMUM MESH OPENING OF 6 INCHES AND FABRICATED FROM 14 GAGE WIRE OR LARGER.

OUTLET

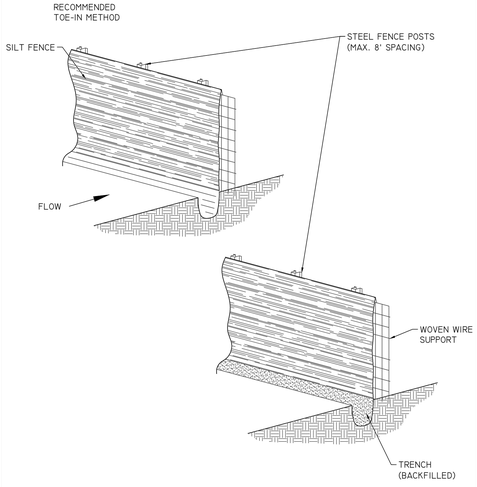
SILT FENCE SHALL BE PLACED AND CONSTRUCTED IN SUCH A MANER THAT RUNOFF FROM A DISTURBED OR EXPOSED UPLAND AREA SHALL BE INTERCEPTED, SEDIMENT TRAPPED AND THE SURFACE RUNOFF ALLOWED TO PERCOLATE THROUGH THE STRUCTURE.

SILT FENCE SHALL BE PLACED IN SUCH A MANER THAT SURFACE RUNOFF WHICH PERCOLATES THROUGH WILL FLOW ONTO AN UNDISTURBED STABILIZED AREA OR STABILIZED OUTLET. IF PLACED IN SERIES, THE FURTHEREST DOWNSTREAM FENCE WILL FLOW ONTO AN UNDISTURBED STABILIZED AREA OR STABILIZED OUTLET.

GENERAL NOTES

1. STEEL POSTS WHICH SUPPORT THE SILT FENCE SHALL BE INSTALLED ON A SLIGHT ANGLE TOWARD THE ANTICIPATED RUNOFF SOURCE.
2. THE TOE OF THE SILT FENCE SHALL BE TRENCHED IN WITH A SPADE OR MECHANICAL TRENCHER, SO THAT THE DOWNSLOPE FACE OF THE TRENCH IS FLAT AND PERPEN-DICULAR TO THE LINE OF FLOW.
3. THE TRENCH SHOULD BE A MINIMUM OF 6 INCHES DEEP AND 3 - 4 INCHES WIDE TO ALLOW FOR THE SILT FENCE TO BE LAID IN THE GROUND AND BACKFILLED.
4. SILT FENCE SHOULD BE SECURELY FASTENED TO EACH STEEL SUPPORT POST OR TO WOVEN WIRE, WHICH IS IN TURN ATTACHED TO THE STEEL FENCE POSTS.
5. INSPECTION SHALL BE FREQENT AND REPAIR OR REPLACEMENT SHALL BE MADE PROMPTLY AS NEEDED.
6. SILT FENCE SHALL BE REMOVED WHEN IT HAS SERVED ITS USEFULNESS, SO AS NOT TO BLOCK OR IMPEDE STORM FLOW OR DRAINAGE. *
7. SEDIMENT TRAPPED BY THIS PRACTICE SHALL BE DISPOSED OF IN AN APPROVED SITE IN A MANNER THAT WILL NOT CONTRIBUTE TP ADDITIONAL SILTATION.
8. ACCUMULATED SILT SHALL BE REMOVED WHEN IT REACHES A DEPTH OF 6 INCHES AND DISPOSED OF IN AN APPROVED SPOIL SITE OR AS IN NO.7 ABOVE.

* TO BE REMOVED BY CONTRACTOR WHEN PERMANENT EROSION MEASURES ARE DEEMED TO BE EFFECTIVE.

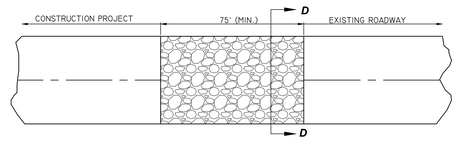


SILT FENCE
(NOT TO SCALE)

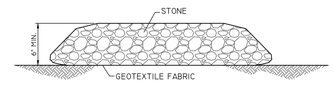
TEMPORARY STONE CONSTRUCTION ENTRANCE

PAY AS "S - ITEM", TEMPORARY STONE CONSTRUCTION ENTRANCE. NOTES:TEMPORARY STONE CONSTRUCTION ENTRANCE AND/OR WASH RACK A STONE STABILIZED PAD LOCATED AT POINTS OF VEHICULAR INGRESS AND EGRESS ON THE CONSTRUCTION SITE TO REDUCE THE AMOUNT OF MUD TRANSPORTED ONTO PUBLIC ROADS. IF THE ACTION OF THE VEHICLE TRAVELING OVER THE GRAVEL PAD IS NOT SUFFICIENT TO REMOVE THE MAJORITY OF THE MUD, THEN THE TIRES MUST BE WASHED BEFORE THE
VEHICLE ENTERS A PUBLIC ROAD. A FEW BASIC DESIGN GUIDELINES FOR THE USE OF A STONE CONSTRUCTION ENTRANCE AND/OR WASH RACKS ARE:

1. THE STONE LAYER MUST BE AT LEAST 6 INCHES THICK.
2. THE STONE SHALL CONFORM TO SECTION 711(02)(CLASS 2LB) OF THE LA DOTD STANDARD SPECIFICATIONS.
3. THE LENGTH OF THE PAD MUST BE AT LEAST 75 FEET AND IT MUST EXTEND THE FULL WIDTH OF THE VEHICULAR INGRESS AND EGRESS.
4. A GEOTEXTILE FABRIC UNDERLINER IS REQUIRED. THE GEOTEXTILE FABRIC SHALL BE IN ACCORDANCE WITH SECTION 1019 (TYPE D) OF THE LA DOTD STANDARD SPECIFICATIONS.
5. IF A WASH RACK IS NECESSARY, PROVISIONS MUST BE MADE TO INTERCEPT THE WASH WATER AND TRAP THE SEDIMENT BEFORE IT IS CARRIED OFF-SITE.



PLAN



SECTION D-D

STANDARDS FOR DIKES

DEFINITION

A DIKE IS A TEMPORARY RIDGE OF COMPACTED SOIL. A DIVERSION DIKE IS PLACED IMMEDIATELY ABOVE CUT OR FILL SLOPES. AN INTERCEPTOR DIKE IS LOCATED ACROSS RIGHT-OF-WAY OR DISTURBED AREAS. A PERIMETER DIKE IS PLACED ALONG THE PERIMETER OF THE DISTURBED AREA OR SITE.

PURPOSE

A DIVERSION DIKE INTERCEPTS STORM RUNOFF FROM SMALL UPLAND AREAS AND DIRECTS IT FROM THE EXPOSED SLOPES TO AN ACCEPTABLE OUTLET. AN INTERCEPTOR DIKE SHORTENS THE LENGTH OF EXPOSED SLOPES BY INTERCEPTING STORM RUNOFF AND DIVERTING IT TO AN ACCEPTABLE OUTLET. A PERIMETER DIKE PREVENTS OFFSITE STORM RUNOFF FROM ENTERING THE DISTURBED AREA OR PREVENTS SEDIMENT-LADEN WATER FROM LEAVING THE DISTURBED AREA.

CONDITIONS WHERE PRACTICE APPLIES

DIKES ARE CONSTRUCTED ADJACENT TO OR ACROSS DISTURBED AREAS TO PREVENT EXCESSIVE EROSION OR TO TRANSPORT SEDIMENT-LADEN WATER TO A SEDIMENT TRAPPING DEVICE. THE DIKES SHALL REMAIN IN PLACE UNTILL THE DISTURBED AREAS ARE PERMANENTLY STABILIZED.

DESIGN CRITERIA

DIKES SHALL NOT BE CONSTRUCTED OR DISCHARGED OUTSIDE THE PROPERTY LINES WITHOUT OBTAINING EASEMENTS FROM THE AFFECTED PROPERTY OWNERS. A DETAILED DESIGN IS NOT REQUIRED FOR DIKES; HOWEVER, THE FOLLOWING CRITERIA SHALL BE USED IN SELECTING SITES FOR PLACEMENT:

DRAINAGE AREA - LESS THAN 5 ACRES (FOR LARGE AREAS, SEE STANDARDS FOR DIVERSION).

TOP WIDTH - 2 FEET MINIMUM.

HEIGHT - COMPACTED FILL SHALL BE 18 INCHES MINIMUM HEIGHT MEASURED FROM GROUND AT UPSLOPE TOE TO TOP OF THE DIKE.

SIDE SLOPES - 2:1 OR FLATTER (FLAT ENOUGH TO ALLOW CONSTRUCTION TRAFFIC TO CROSS IF DESIRED).

GRADE - DEPENDENT UPON TOPOGRAPHY, BUT MUST HAVE POSITIVE DRAINAGE. INTERCEPTOR DIKE SHOULD BE BETWEEN 0.4 PERCENT AND 1.0 PERCENT.

STABILIZATION - WHERE SLOPE OF CHANNEL (FLOW AREA) IS: 1% - 5% - STABILIZATION MAY BE REQUIRED DEPENDING ON THE SITE CONDITIONS. OVER 5% - SEE STANDARDS FOR DIVERSION.

SPACING - INTERCEPTOR DIKES SHALL BE PLACED SUCH THAT THE MAXIMUM VERTICAL DISTANCE BETWEEN DIKES IS 10 FEET.

OUTLET

1. RUNOFF FROM A PROTECTED OR STABILIZED AREA SHALL OUTLET DIRECTLY ONTO AND UNDISTURBED STABILIZED AREA OR INTO A LEVEL SPREADER (SEE STANDARDS FOR LEVEL SPREADER) OR GRADE STABILIZATION STRUCTURE (SEE STANDARDS FOR GRADE STABILIZATION STRUCTURE).

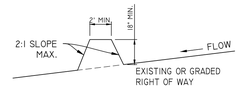
2. STRUCTURE THAT WILL CONTROL THE RUNOFF FROM DIKES SHALL BE INSTALLED AND STABILIZED BEFORE DIKES ARE INSTALLED.

GENERAL NOTES :

1. ALL DIKES SHALL BE MACHINE COMPACTED.

2. FIELD LOCATION MAY BE ADJUSTED AS NEEDED TO UTILIZE A STABILIZED SAFE OUTLET.

3. PERIODIC INSPECTION AND REQUIRED MAINTENANCE SHALL BE PROVIDED BY THE CONTRACTOR.



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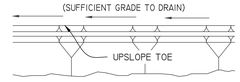
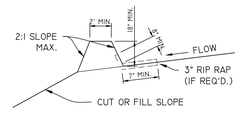


PLAN VIEW

PERIMETER DIKE
(NOT TO SCALE)



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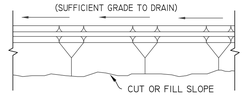
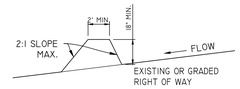


PLAN VIEW

DIVERSION DIKE
(NOT TO SCALE)



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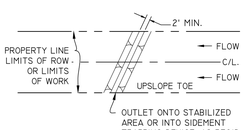

PLAN VIEW

INTERCEPTOR DIKE
(NOT TO SCALE)

BLEDSOE ARCHITECTS
735 ROBINHOOD STREET
SHREVEPORT, LA 71106
PHONE: (318) 219-2295
FAX: (318) 219-2296

RALEY AND ASSOCIATES, INC.
4913 Shed Road Bossier City, LA 71111
Phone 318.752-9023
Fax 318.752-9025
www.raleyandassociates.com

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NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006
EROSION CONTROL DETAILS

BOSSIER SCHOOLS "Win the Day!"
BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

14 JAN 2026

SHEET

C6.1

SEQ 11 of 63

GENERAL NOTES

CODES AND SPECIFICATIONS

A. GENERAL BUILDING CODE: IBC 2021

B. CONCRETE CODES: ACI 318-19

C. STRUCTURAL STEEL CODE: ANSI/AISC 360-16

D. WIND AND SEISMIC CODE: ASCE 7-16

E. MASONRY CODES-TMS 402/602-216

F. STORM SHELTER CODES-ICC 500-2020

G. CONFLICTS IN STRUCTURAL REQUIREMENTS
Where conflict exists between the various publications as specified herein, the strictest requirements of the various publications shall govern unless noted otherwise. Where conflict exists among the various parts of the Structural Contract Documents, Structural Drawings, General Notes, Specifications) the strictest requirements shall govern.

II. TYPICAL DETAILS

Details labeled "Typical Details" on the drawings shall apply to all situations occurring on the project that are the same or similar to those specifically detailed. Such details shall apply whether or not they are keyed in at each location. Questions regarding applicability of Typical Details shall be determined by the Engineer.

III. DESIGN CRITERIA

A. BUILDING MOVEMENT AND DEFLECTIONS
1. Roof members. Span over 240 for total loads.
2. Floor members. span/360 for live loads.
3. Member supporting plaster or masonry. Span over 600 and less than 5/8" for total loads.
4. Drift - Mean roof height over 400 for 10 year wind loads.

IV. FOUNDATION - GENERAL

A. GEOTECHNICAL REPORT
Foundation design is based on the geotechnical investigation provided by Anderson Engineering Consultants Inc. (No. 17851) dated December 3, 2025.

B. FOUNDATION APPROVAL AND INSPECTION BY AUTHORIZED INSPECTOR
Unless authorized otherwise by the Owner or Architect, the General Contractor shall notify the Geotechnical Engineer or other authorized inspector for review of foundation bearing surface, inspection of foundation installation, and foundation installation methods and shall not place concrete prior to inspector's approval.

C. FOUNDATION REINFORCING STEEL INSPECTION BY STRUCTURAL ENGINEER
1. The Contractor shall notify the Engineer and Testing Laboratory a minimum of 72 hours in advance of any major foundation pour.
2. The Contractor shall not pour any foundation concrete without inspection and approval of all reinforcing steel placement by the Structural Engineer or special inspector.

D. SLAB-ON-GRADE CONSTRUCTION
1. Specification. Unless specified otherwise, slab on grade construction shall follow the recommendations of Guide for Concrete Floor and Slab Construction ACI 302.1R.
2. Subgrade Preparation.
a. Areas containing slab on grade construction shall be stripped 12" minimum to remove all top soil and organics, a minimum distance of 5' beyond the building perimeter.
b. The pad shall then be proof rolled with a minimum 15 ton tandem axle vehicle under the direction of the Geotechnical Engineer. Any loose or pumping soils shall be excavated and replaced as directed by the project Geotechnical Engineer.
c. The pad shall be scarified 12" and recompacted to a minimum of 95% of the standard proctor density at a moisture content between 0% to +2% of optimum.
d. The building pad shall then be constructed of select fill material. See item 3 below. Soil replacement shallcontinue to an elevation of 4" below the bottom of finished floor. Select fill SHALL NOT be installed beyond the building perimeter.
e. A final lift of 4" of granular base shall be placed over the select fill, and a 15 mill vapor barrier shall be placed directly below the slab. All joints shall be lapped 6" minimum and shall be sealed.
f. Slab on grade concrete shall not be poured against a final prepared subgrade containing free water, ice, frost, mud or other unsuitable material.
3. Select Fill.
a. Material designated in these General Notes, drawings, or specifications as select backfill shall consist of sandy lean clay or clayey sand with a plasticity index between 8 and 18, a liquid limit of less than 35. All fill shall be free of organic materials, debris, and rock fragments greater than 3" in diameter. Fill shall have a maximum of 60% material passing sieve No. 200.
b. The General Contractor shall submit to the Architect, Structural Engineer, and Geotechnical Engineer, the source of all fill material with samples to be tested by the General Contractor's testing laboratory for approval prior to placement on the job. Verification will be required by the testing laboratory each time the source or character of the material changes.
c. Fill material shall be placed in maximum 8" loose lifts and compacted to at least 98% of the Standard Proctor Density (ASTM D698) at a moisture content +2% of optimum moisture content
4. Reinforcing Steel.
a. See the drawings for typical slab reinforcement requirements.
b. All welded wire fabric shall be furnished in flat sheets. Lap ends and sides one cross wire spacing plus 4" at splices.
c. Lap continuous slab on grade reinforcing steel 30 bar diameters at splices but not less than 12".
d. Steel for slabs on grade shall be chaired with slab bolsters designed for support on soil to provide specified cover to reinforcing steel.
5. Construction and Control Joints. See details on the drawings for requirements of construction joints, control joints, and pour size and sequence for slab-on-grade construction.

V. SPREAD FOOTING FOUNDATION

A. SPECIFICATION
Spread footing construction shall conform to the requirements of the Standard Building Code Requirements for structural concrete (ACI 318-11) published by the American Concrete Institute, except as modified hereafter by these General Notes, the structural drawings, or the specifications

B. DESIGN SOIL PRESSURES
All foundation grade beams and footings shall bear on an approved building pad. Design soil pressures are 2000psf for isolated footings and 2000psf for continuous footings.

C. CONCRETE COVER
1. The minimum protection for reinforcement shall be 3" clear from face of soil.

D. TOP ELEVATION
The top elevations of all footings are shown on the drawings.

E. BEARING ELEVATION
The bottom of all footings shall bear a minimum of 2 feet below the finished slab subgrade or adjacent exterior grade, whichever is deeper. Continuous footings shall bear a minimum of 24" below finished floor elevation.

F. TEMPLATES FOR ANCHOR BOLTS
Vertical reinforcing steel and anchor bolts for column base plates shall be accurately set in footing and pedestal tops using 3/4" plywood or 1/8" steel templates.

VI CONCRETE

A. CLASSES OF CONCRETE
All concrete shall conform to the requirements as specified in the table below unless noted otherwise on the drawings:

	USAGE	28-DAY	SLUMP	MAX AGG	W/C	NOTES
1.	SLAB	3500	4"	1.25"	.5	NO AIR
2.	GRADE BEAMS AND FTGS	3500	3"	1.5"	.52	
3.	SHELTER DECK	4000	4"	.75"	.52	

B. CONCRETE MIX DESIGNS
1. Engineer Approval. Concrete mix designs must be submitted a minimum of 15 days prior to the start of the work for Engineer and Owner's testing laboratory approval prior to placement of concrete in the plant or field. Any adjustments in approved mix designs including changes in admixtures must be submitted in writing to the Engineer and Owner's testing laboratory for approval prior to use in the field.
2. Pumped Concrete. Concrete designed to be pumped shall be so noted on the mix designs and shall have mix proportions compatible with the pumping process.
3. Calcium Chloride is strictly prohibited.
4. Air in panels and interior slabs shall not be added>

VII. CONCRETE FORMWORK
A. RESPONSIBILITY
The design, construction, and safety of all formwork shall be the responsibility of the General Contractor. All forms, shores, backshores, falsework, bracing, and other temporary supports shall be designed to support all loads imposed including the wet weight of concrete, construction equipment, live loads, lateral loads due to wind and wet concrete imbalance. The Contractor shall also be responsible for determining when temporary supports, shores, backshores, and other bracing may be safely removed.

VIII. CONCRETE FINISH
Refer to the Specifications for concrete finish requirements including concrete surface tolerances (flatness and levelness).

IX. CONCRETE REINFORCEMENT

A. SPECIFICATION
1. Reinforcing Steel. ASTM A 615 Grade 60 unless noted otherwise on the drawings. Welded Reinforcing Steel - ASTM A 706.
2. Deformed Bar Anchors. ASTM A 496 minimum yield strength 70,000 PSI (reinforcing bars may not be substituted for deformed bar anchors without Engineer approval).
3. Welded Wire Fabric. Welded smooth wire fabric, ASTM A 185, yield strength 65,000 PSI. Welded deformed wire fabric for, ASTM A 497, yield strength 70,000 PSI. All welded wire fabric shall be furnished in flat sheets only.
The Contractor shall submit mill certificates of all reinforcing steel products signed by producer and by the Contractor.

B. DETAILING AND BAR SUPPORTS
Detailing of and bar supports for reinforcing steel shall be in accordance with the ACI Standard Details and Detailing of Concrete Reinforcement as reported by ACI Committee 315.

C. MANUAL OF CONCRETE PRACTICE
Unless noted otherwise, methods of estimating, detailing, fabricating, placing and contracting for reinforcing materials shall follow the Manual of Standard Practice as published by the Concrete Reinforcing Steel Institute.

D. SHRINKAGE AND TEMPERATURE REINFORCEMENT
Provide shrinkage and temperature reinforcement at right angles to main top and bottom bars for all slabs unless detailed otherwise on the drawings.
See drawings for sizes and spacings.

E. REINFORCING STEEL COVERAGE
Reinforcing steel coverage shall conform to the requirements specified on the plans and specifications. The reinforcing steel detailer shall adjust reinforcing steel cage sizes at intersecting structural members as required to allow clearance for intersecting reinforcing bar layers maintaining minimum specified cover. Cover not indicated onon the plans and specifications shall conform to the requirements of ACI 318-95 Section 7.7 unless specified otherwise on the drawings.

F. Concrete cover shall be as follows, unless shown otherwise:
1. Concrete cast against earth, 3".
2. Concrete cast against cardboard void boxes, 2".
3. Concrete exposed to weather, 11/2"
4. All other concrete, 3/4".

X. STRUCTURAL MASONRY

A. SPECIFICATION
Masonry units - ASTM C-90, f'm = 2500psi
Mortar - ASTM C-270, Type S
Grout strength - 3000psi
Rebar used-ASTM A615, Grade 60

B. INSPECTION

Visual inspection of all reinforcement is required. Masonary prism results to be submitted.

C. REINFORCEMENT

1. Typical reinforcement shall be: See schedule
2. Horizonal joint reinforcing: 9ga. ladder type at 16"o.c.
3. Bond beams: See schedule
4. There shall be a min. of (1) bar on all openings in concrete which are less than 48", RE: E/S4.1
5. Reinforcement bar lap:.... See schedule

D. CONSTRUCTION

1. Lap all bond beams where stepped 4'-0".
2. At corners and wall intersections, grout the adjacent cores with a vertici bar and lap the bond beam steel or provide corner bars of equal size, RE: B/S4.1.
3. All dowels from the foundation shall match the size and location of vertical masonary, unless noted differently. extend dowel a full cap dimension.
4. Vertical expansion joints shall be provided in the CMU walls as shown on the elevations & 30'o.c. Max, Re: arch. See: C/S4.1 for joint detail.
5. Reference the Architectural drawings for type of block used.
6. All vertical bars shall be terminated in the upper grade beam with 90° STD. hooks.

XI. STRUCTURAL STEEL

A. MATERIAL
1. Hot Rolled Structural Members. ASTM Specification A6.
2. ASTM Specification and Grade
Clearly mark the grade of steel on each piece, with a distinguishing mark visible from floor surfaces for the purpose of field inspection of proper grade of steel. Unless noted otherwise on the drawings, structural steel shall be as follows:
a. Wide Flange Sections. ASTM A572 or A992 Grade 50
b. Edge Angles and Bent Plates. ASTM A 36.
c. Tube Sections. Square or rectangular, ASTM A500, Grade B. Round, ASTM A500 Grade C.
d. Baseplates. All baseplates shall conform to ASTM A36.
e. Connection Material.
(1) Beam, Column Stiffener Plates and Doubler Plates. Beam column stiffener plates and doubler plates shall be the grade of steel to which they are connected (highest grade if more than one grade is used).
(2) All connection material, except as noted otherwise herein or on the drawings, including bearing plates, gusset plates, stiffener plates, filler plates, angles, etc. shall be A36 steel unless a higher or matching grade of steel with the members connected is required by strength or stiffness calculation and provided the resulting sizes are compatible with the connected members.
f. Other Steel.
Any other steel not indicated otherwise shall conform to ASTM A36.

B. CONNECTIONS
1. Typical connection details are indicated on the drawings.
2. Design Procedure.
a. Connection types to be used are indicated on the drawings.
b. The design of all steel connections for the project shall be based on standard AISC LRFD tabulated connections.
c. Fabricator is responsible for the design of all non standard connections or variations from details shown.
d. Fabricator is responsible for the design of all brace connections.
3. Design Intent. It is the intention of the plans and specifications that shop connections be welded or bolted and that field connections be bolted, unless detailed otherwise on the drawings.
4. a. All typical beam simple connections shall be standard AISC connections.
b. Seated connections shall not be used unless approved by EOR.
c. N/A

XII. LIGHT GAUGE STEEL

A. All light gauge members shall be designed in accordance with American Iron and Steel Institute.
B. All light gauge metal framing members shall be of the type, size, and gauge as shown on the plans, minimum 43 mil.
C. All posts, joists, and accessories shall be primed with rust inhibitive paint meeting the performance requirements of TT-P-636C, or shall be formed steel having a G-60 galvanized coating conforming to ASTM A924.
D. All members shall meet the requirements of ASTM A607 Class 2 Grade 55 with a minimum yield of 55,000 PSI.
E. Welding, where permitted, is to be done per manufacturer's recommendations on rod type and amperage. Minimum gauge for welding shall be 54 mil. Welds within exterior framing walls shall be touched up with zinc rich primer.
F. All light gauge metal framing shall be installed per manufacturer's recommendations regarding minimum installation standards for bearing, bridging, and bracing.
G. Light gauge member designations are per the 2012 AISI North American specifications.
H. All connections shall be welded, screwed or powder fastened as indicated on these drawings.
Welds- All welded connections shall be performed in accordance with the last edition of the AWS D1.3 specification for welding sheet steel in structures. All welding shall be performed by AWS certified welders. All welds shall be cleaned and coated with rust inhibitive zinc paint.
Screws- #10 self drilling screws manufactured by grabber or HILTI and installed per the fastener manufacturer's specifications. Minimum 1/2" length for light gage to light gauge connections. (Minimum 11/2" length for light gage to timber connections.) Screws shall be spaced at a minimum of 1/2" between adjacent screws and from metal edges.
Powder Activated Fasteners (P.A.F.)- 0.138" minimum shank diameter P.A.F. manufactured by Ramset or HILTI and installed per the fastener manufacturer's specifications.
Provide minimum 11/4" long P.A.F. for light gage connections to concrete. P.A.F. in concrete shall be spaced a minimum of 4" between adjacent P.A.F. and a minimum of 3" from concrete edges. Minimum P.A.F. embedment in concrete shall be 11/8".
Provide minimum 1/2" long P.A.F. with knurled shanks for light gage connections to structural steel. P.A.F. Shall be spaced a minimum11/2" between adjacent P.A.F. in structural steel and a minimum of 1/2" from steel edges. The P.A.F. point shall be driven completely through the back side of the structural steel member.
Masonry Anchors- 1/4" diameter x 2" long self-drilling screw anchors manufactured by Ramset (Tapcon) or HILTI (Kwik Con II) and installed per the fastener manufacturer's specifications for light gage connections to concrete masonry.
Drive-in Expansion Anchors (Mushroom Head)- 1/4" diameter x 11/4" long Zamac Nailin by Rawl, metal by HILTI or Hammer Set by Ramset and installed per the manufacturer's specifications. Anchors in concrete shall be spaced a minimum of 4" between adjacent anchors and a minimum of 3" from concrete edges. Minimum anchor embedment in concrete shall be 11/8".
Expansion Anchors- Provide minimum 3/8" diameter Kwik Bolt II Expansion anchors by HILTI or equal, with a minimum 21/2" embedment into concrete. Minimum spacing between adjacent expansion anchors to be 5". Expansion anchors shall be located a minimum of 3" from concrete edges. Use oversize washers for attaching light gage with expansion anchors. Install per the manufacturer's specifications for light gage connections to concrete.
J. All members shall be cut squarely for attachment to perpendicular members or slope cut as required for an angular fit against abutting members.
K. Field cutting of light gage members shall be done by sawing or shearing. Torch cutting of light gage members is not permitted.
L. Do not cut or splice light gage framing members unless indicated by these drawings.
M. Do not bear or connect light gage members within twelve inches of the punched openings in the member webs unless the members are reinforced with a minimum 18" long unpunched track or stud at the punch opening. The track or stud reinforcing piece shall be the same size and gage as the punched member. Fasten the reinforcing piece to the member with a minimum of four screws.
N. The light gage framing has been designed to support the loads indicated in the calculations. Additional temporary bracing and shoring shall be provided as required to stabilize the framing and to support construction loads. Temporary bracing shall remain in place until permanent bracing is installed and/or additional construction loads are removed.

XIII. ANCHOR BOLTS

A. SPECIFICATION
All anchor bolts shall be made from threaded round stock conforming to ASTM F-1554 grade 36 steel unless otherwise detailed on the drawings.

B. NUTS
All nuts with anchor bolts shall be hex head conforming to ASTM Specification A563.

C. WASHERS
Where indicated, base plates shall have plate washers, 1/4" thick, extending minimum 1" from edge of base plate holes on each side with AISC standard holes.
Washers shall conform to ASTM A36 steel.

D. TEMPLATES
All anchor bolts set in concrete shall utilize 1/8" thick steel or 3/4" thick plywood templates same size as the base plate. Templates shall be detailed on the shop drawings.

XIV. NON-SHRINK GROUT FOR BASE PLATES AND BEARING PLATES

A. TYPE
Grout for base plates and bearing plates shall be a non-metallic, shrinkage resistant, premixed, non-corrosive, non-staining product containing Portland cement, silica sands, shrinkage compensating agents, and fluidity improving compounds.

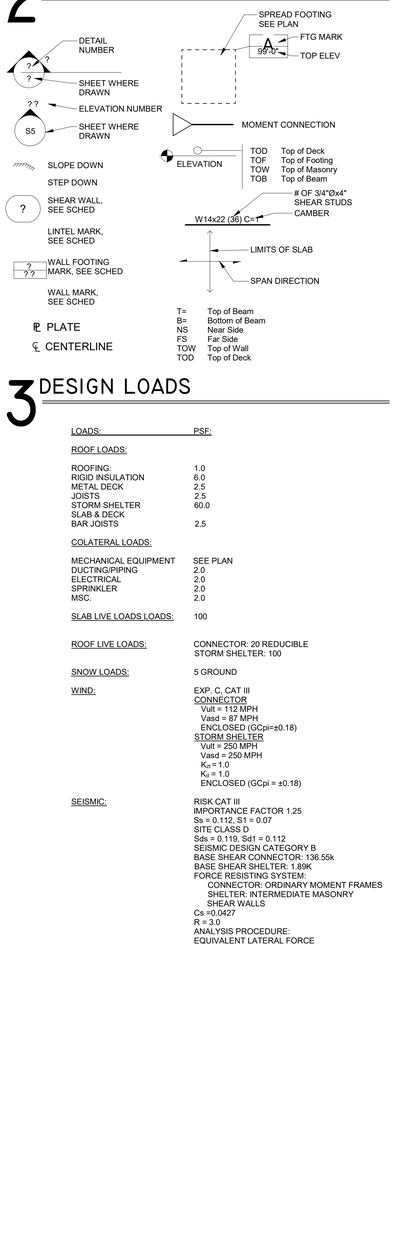
B. SPECIFICATIONS
Non-shrink grout shall conform to Corps of Engineers Specification for Non-Shrink Grout, CE-CRD-C621.

C. COMPRESSIVE STRENGTH
Twenty-eight day compressive strength as determined by grout cube tests, shall be: 7,500 PSI.

D. PLACEMENT
Grout shall be placed in a fluid flowable state under baseplates that have a form built around them for grout confinement. Grout shall be cured according to manufacturer's recommendations.

E. MINIMUM THICKNESS
Minimum thickness of grout under all baseplates and bearing plates shall be 1 1/2", unless specified otherwise on the drawings.

2 STRUCTURAL LEGEND



3 DESIGN LOADS

LOADS:	PSF:
ROOF LOADS:	
ROOFING:	1.0
RIGID INSULATION	6.0
METAL DECK	2.5
JOISTS	2.5
STORM SHELTER	60.0
SLAB & DECK	
BAR JOISTS	2.5
COLATERAL LOADS:	
MECHANICAL EQUIPMENT	SEE PLAN
DUCTING/PIPING	2.0
ELECTRICAL	2.0
SPRINKLER	2.0
MSC.	2.0
SLAB LIVE LOADS LOADS:	100
ROOF LIVE LOADS:	CONNECTOR: 20 REDUCIBLE STORM SHELTER: 100
SNOW LOADS:	5 GROUND
WIND:	EXP. C, CAT III CONNECTOR Vult = 112 MPH Vasd = 87 MPH ENCLOSED (GCpi=±0.18) STORM SHELTER Vult = 250 MPH Vasd = 250 MPH K_d = 1.0 K_d = 1.0 ENCLOSED (GCpi = ±0.18)
SEISMIC:	RISK CAT III IMPORTANCE FACTOR 1.25 Ss = 0.112, S1 = 0.07 SITE CLASS D Sds = 0.119, Sd1 = 0.112 SEISMIC DESIGN CATEGORY B BASE SHEAR CONNECTOR: 136.55k BASE SHEAR SHELTER: 1.89K FORCE RESISTING SYSTEM: CONNECTOR: ORDINARY MOMENT FRAMES SHELTER: INTERMEDIATE MASONRY SHEAR WALLS Cs =0.0427 R = 3.0 ANALYSIS PROCEDURE: EQUIVALENT LATERAL FORCE

4 STRUCTURAL NOTES

1. ALL POINT LOADS ON BAR JOISTS SHALL BEAR ON PANEL POINTS. ALL POINT LOADS NOT ADDRESSED ON THE DRAWINGS (I.E. PIPING) SHALL NOT EXCEED 100 POUNDS PER JOIST.

2. ALL LINES OF BRIDGING INTERRUPTED BY ROOF PENETRATIONS SHALL BE TERMINATED AT THE PENETRATION POINT(S). SUBSTITUTE DIAGONAL BRIDGING IN THE 2 ADJACENT PANELS ON EITHER SIDE OF THE PENETRATION. ALL LOCATIONS SHALL BE NOTED ON THE SHOP AND ERECTION DRAWINGS.

3. ALL ROOF TOP UNITS (RE: MECHANICAL) SHALL BE LOCATED WITHIN IN THE AREAS SHOWN. ALL LOADS

4. BAR JOISTS SHALL BE DESIGNED FOR A ULTIMATE UNFACTORED UPLIFT VALUES BASED UPON THE TABULATED WIND PRESSURES SHOWN HEREIN AND THE SPECIFIED DEAD LOADS. UPLIFT BRIDGING SHALL BE SIZED AND PROVIDED BY THE JOIST MANUFACTURER. THE LOCATION OF UPLIFT BRIDGING SHALL BE SHOWN ON THE SHOP AND ERECTION DRAWINGS. FOR UPLIFT CALCULATIONS, THE JOIST MANUFACTURER SHALL USE A 60psf DEAD LOAD FOR SHELTER AND 6psf FOR THE REMAINING FRAMING AREAS.

5. LATERAL STABILITY FOR THIS STRUCTURE IS PROVIDED BY THE MOMENT FRAMES AND MASONRY SHEARWALLS. THE STABILITY OF THE STRUCTURE SHALL BE THE RESPONSIBILITY OF THE GENERAL CONTRACTOR AND THE STEEL ERECTOR UNTIL ALL WIND RESISTING ELEMENTS ARE IN PLACE AND ACCEPTED IN WRITING BY THE ENGINEER.

6. TYPICAL ROOF DECK SHALL BE 1.5B 22 ga. AS MANUFACTURED BY NEW MILLENIUM JOIST COMPANY OR APPROVED EQUAL. ATTACHMENT SHALL BE 5/80" PUDDLE WELDS ON 36/5 PATTERN WITH 5-#10 SIDELAP FASTENERS. ATTACH DECK WITH 5/80" PUDDLE WELDS AT 36/7 PATTERN OR @ 6"oc AT ALL PERIMETER SUPPORTS.

7. TYPICAL SHELTER ROOF DECK SHALL BE 4" NORMAL WEIGHT CONCRETE (4000psi) OVER 2.0CD 20ga. GALVANIZED DECK (6" TOTAL THICKNESS) AS MANUFACTURED BY NEW MILLENIUM. ATTACHMENT SHALL BE 5/8"Ø PUDDLE WELDS ON A 36/4 PATTERN WITH 3-5/8"Ø PUDDLE WELD SIDELAP FASTENERS PER SPAN. ATTACH DECK TO PERIMETER STRUCTURE WITH 5/8"Ø PUDDLE WELDS ON 36/6 PATTERN OR 6" o.c. MAX. SHEAR STUDS TO BE 5/8"Ø WITH AN INSTALLED HEIGHT OF 5 1/2". SLAB TO BE REINFORCED WITH #4s @ 12"o.c.e.w. CENTERED BETWEEN THE TOP OF SLAB AND TOP OF DECK RIB.

8. ALL ROOF COLUMM AND CONNECTION ELEVATIONS ARE BASED ON THE K JOIST HAVING A 2 1/2" DEEP SEAT AND THE CJ JOIST HAVING A 5" SEAT EXCEPT WHERE NOTED OTHERWISE.

9. ALL LEDGE ANGLES TO BE HOT DIP GALVANIZED. CORNERS SHALL BE MITERED TO PROVIDE CONTINUOUS BEARING.

10. ALL MECHANICAL LOADS ARE IN ADDITION TO STANDARD JOIST LOADING.

STRUCTURAL SHEET LIST

SHEET NO.	SHEET NAME	ISSUE DATE	CURRENT REVISION
S1	GENERAL NOTES AND SCHEDULES	01/14/2026	
S1.1	SPECIAL INSPECTIONS	01/14/2026	
S1.2	SCHEDULES	01/14/2026	
S1.3	STORM SHELTER NOTES AND DETAILS	01/14/2026	
S2	FOUNDATION PLAN	01/14/2026	
S2.1	ENLARGED JAMB PLANS	01/14/2026	
S3	FRAMING PLAN	01/14/2026	
S3.1	SHELTER ELEVATIONS	01/14/2026	
S4	FOUNDATION SECTIONS	01/14/2026	
S4.1	FOUNDATION DETAILS	01/14/2026	
S5	FRAMING SECTIONS	01/14/2026	
S5.1	FRAMING SECTIONS	01/14/2026	
S6	FRAMING DETAILS	01/14/2026	
S6.1	FRAMING DETAILS	01/14/2026	

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BRIAN K. SMITH
REG. No. 29652
PROFESSIONAL ENGINEER
1/14/2026

BK SMITH
ENGINEERING CO., INC.
1914 CITIZENS BANK DR.
BOSSIER CITY, LOUISIANA
318-741-0127

NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

GENERAL NOTES AND SCHEDULES

BPSB PROJECT #26-02

job no: 2511

REVISIONS

14 JAN. 2026

SHEET
S1

SEQ 12 of 63

SPECIAL INSPECTIONS

SOILS-SECTION 1705.6

SPECIAL INSPECTIONS	REFERENCED STANDARD	MARK IF REQ'D	CONT./PERIODIC "C" OR "P"
1. VERIFY MATERIALS BELOW SHALLOW FOUNDATION ARE ADEQUATE TO ACHIEVE THE DESIGN BEARING CAPACITY		X	P
2. VERIFY EXCAVATIONS ARE EXTENDED TO PROPER DEPTH AND HAVE REACH PROPER MATERIAL		X	P
3. PERFORM CLASSIFICATION AND TESTING OF COMPACTED FILL MATERIALS		X	P
4. VERIFY USE OF PROPER MATERIALS, DENSITIES AND LIFT THICKNESS DURING PLACEMENT AND COMPACTION OF COMPACTED FILL.		X	C
5. PRIOR TO PLACEMENT OF COMPACTED FILL, INSPECT SUBGRADE AND VERIFY THAT SITE HAS BEEN PREPARED PROPERLY.		X	P

CONCRETE-SECTION 1705.3

SPECIAL INSPECTIONS	REFERENCED STANDARD	MARK IF REQ'D	CONT./PERIODIC "C" OR "P"
1. INSPECT REINFORCEMENT, INCLUDING PRESTRESSING TENDONS, AND VERIFY PLACEMENT	ACI 318 CH. 20, 25.2, 25.3 26.6.1-26.6.3 IBC 1908.4	X	P
2. REINFORCING BAR WELDING:			
a. VERIFY WELDABILITY OF REINFORCING BARS OTHER THAN ASTM A706.	AWS D1.4; ACI 318:26.6.4		P
b. INSPECT SINGLE-PASS FILLET WELDS, MAXIMUM 5/16".	AWS D1.4;ACI 318:26.6.4		P
c. INSPECT ALL OTHER WELDS.	AWS D1.4;ACI 318:26.6.4		C
3. INSPECT ANCHORS CAST IN CONCRETE	ACI 318:17.8.2	X	P
4. INSPECT ANCHORS POST-INSTALLED IN HARDENED CONCRETE MEMBERS.		X	
a. ADHESIVE ANCHORS INSTALLED IN HORIZONTALLY OR UPWARDLY INCLINED ORIENTATIONS TO RESIST SUSTAINED TENSION LOADS.	ACI 318:17.8.4		C
b. MECHANICAL ANCHORS AND ADHESIVE ANCHORS NOT DEFINED IN 11.a	ACI 318:17.8.2	X	P
5. VERIFY USE OF REQUIRED DESIGN MIX	ACI 138: CH. 19,26.4.3,26.4.4 IBC 1904.1, 1904.2, 1908.2, 1908.3	X	P
6. PRIOR TO CONCRETE PLACEMENT, FABRICATE SPECIMENS FOR STRENGTH TESTS, PERFORM SLUMP AND AIR CONTENT TESTS, AN DETERMINE THE TEMPERATURE OF THE CONCRETE.	IBC 1904.1, 1904.2, 1908.2, 1908.3	X	C
7. INSPECT CONCRETE AND SHOTCRETE PLACEMENT FOR PROPER APPLICATION TECHNIQUES.	ACI 318: 26.5 IBC 1908.6, 1908.7, 1908.8		C
8. VERIFY MAINTENANCE OF SPECIFIED CURING TEMPERATURE AND TECHNIQUES.	ACI 318: 26.5.3 IBC 1908.9	X	P
9. INSPECT PRESTRESSED CONCRETE FOR:			
a. APPLICATION OF PRESTRESSING FORCES; AND	ACI 318:26.10		C
b. GROUTING OF BONDED PRESTRESSING TENDONS	ACI 318:26.10		C
10. INSPECT ERECTION OF PRECAST CONCRETE MEMBERS	ACI 318:26.8		P
11. VERIFY IN-SITU CONCRETE STRENGTH, PRIOR TO STRESSING OF TENDONS IN POST-TENSIONED CONCRETE AND PRIOR TO REMOVAL OF SHORES AND FORMS FROM BEAMS AND STRUCTURAL SLABS.	ACI 318:11.2		P
12. INSPECT FORMWORK FOR SHAPE, LOCATION AND DIMENSIONS OF THE CONCRETE MEMEBER.	ACI 318: 11.1.2(b)	X	P

MASONRY-SECTION 1705.4

SPECIAL INSPETION	REFERENCED STANDARD	MARK IF REQ'D	CONT./PERIODIC "C" OR "P"
1. LEVEL 1: MINIMUM QUALITY ASSURANCE PROGRAM FOR MASONRY IN RISK CATEGORY I, II, OR III STRUCTURES AND DESIGNED IN ACCORDANCE WITH PART 4 OR APPENDIX A	TMS 602 TABLE 3 & 4		SEE TMS TABLES
2. LEVEL 2:			
MINIMUM QUALITY ASSURANCE PROGRAM FOR MASONRY IN RISK CATEGORY I,II, OR III STRUCTURES AND DESIGNED IN ACCORDANCE WITH PART 4 OR APPENDIX B OR APPENDIX C	TMS 602 TABLE 3 & 4	X	SEE TMS TABLES
MINIMUM QUALITY ASSURANCE PROGRAM FOR MASONRY IN RISK CATEGORY IV STRUCTURES AND DESIGNED IN ACCORDANCE WITH PART 4	TMS 602 TABLE 3 & 4		SEE TMS TABLES
3. LEVEL 3: MINIMUM QUALITY ASSURANCE PROGRAM FOR MASONRY IN RISK CATEGORY IV STRUCTURES AND DESIGNED IN ACCORDANCE WITH PART 3 OR APPENDIX C.	TMS 602 TABLE 3 & 4		SEE TMS TABLES
4. VERTICAL MASONRY FOUNDATION ELEMENTS SHALL BE INSPECTED IN ACCORDANCE WITH IBC SECTION 1705.4			SEE TMS TABLES

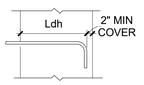
STEEL-SECTION 1705.2M

SPECIAL INSPECTIONS	REFERENCED STANDARD	MARK IF REQ'D	CONT./PERIODIC "C" OR "P"
1. STRUCTURAL STEEL: SPECIAL INSPECTION AND NONDESTRUCTIVE TESTING OF STRUCTURAL STEEL ELEMENTS IN BUILDINGS, STRUCTURES AND PORTIONS THEREOF SHALL BE IN ACCORDANCE WITH THE QUALITY ASSURANCE INSPECTION REQUIREMENTS OF AICS 360	AISC 360 CHAPTER N	X	PER REF. STANDARD
a. MATERIAL VERIFICATION OF STRUCTURAL STEEL SHALL COMPLY WITH THE REQUIREMENTS OF SECTION 8.1 OF THE CODE OF STANDARD PRACTICE.	SECTION 6.1 OF THE CODE OF STANDARD PRACTICE	X	
b. WELDING, HIGH STRENGTH BOLTING, AND DETAILS IN ACCORDANCE WITH SECTION N5	AISC 360 SECTION N5	X	PER REF. STANDARD
c. STEEL DECK AND HEADED STEEL STUD ANCHOR PLACEMENT AND ATTACHMENT IN ACCORDANCE WITH SECTION N6	AISC 360 SECTION N6		PER REF. STANDARD
d. CUT SURFACES IN ACCORDANCE WITH SECTION M2.2	AISC 360 SECTION M2.2		
e. HEATING FOR STRAIGHTENING IN ACCORDANCE WITH SECTION M2.1	AISC 360 SECTION M2.1		
f. TOLERANCES FOR FIELD ERECTION IN ACCORDANCE WITH SECTION 7.13 OF THE CODE OF STANDARD PRACTICE	SECTION 7.13 OF THE CODE OF STANDARD PRACTICE		
2. COLD-FORMED STEEL DECK	SDIQA/AQ		
3. COLD-FORMED STEEL TRUSSES SPANNING 60 FEET OR GREATER			

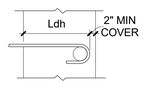
INSPECTION OF FABRICATORS

SPECIAL INSPECTIONS	REFERENCED STANDARD	MARK IF REQ'D	CONT./PERIODIC "C" OR "P"
1.STRUCTURAL STEEL		X	P
2. STEEL JOISTS & GIRDERS		X	P
3. PRE-CAST CONCRETE			
4. PRESTRESSED CONCRETE			
5. WOOD CONSTRUCTION (WOOD TRUSSES, WALLS, FLOORS, ROOF ASSEMBLIES)			P

3 'Ldh' TENSION DEVELOPMENT (EMBEDMENT) LENGTH FOR STANDARD END HOOKS (GRADE 60 BARS-NORMAL WEIGHT CONCRETE-GENERAL USE)

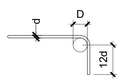


STANDARD 90 HOOK
SIDE COVER >2½"

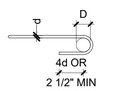


STANDARD 180 HOOK
SIDE COVER >2½"

BAR SIZE	f'c=3000 psi	f'c=4000 psi	f'c=5000 psi	f'c=6000 psi
	Ldh	Ldh	Ldh	Ldh
#3	9"	7"	7"	6"
#4	11"	10"	9"	8"
#5	1'-2"	1'-0"	11"	10"
#6	1'-5"	1'-3"	1'-1"	1'-0"
#7	1'-7"	1'-5"	1'-3"	1'-2"
#8	1'-10"	1'-7"	1'-5"	1'-4"
#9	2'-1"	1'-10"	1'-7"	1'-6"
#10	2'-4"	2'-0"	2'-10"	1'-8"
#11	2'-6"	2'-2"	2'-0"	1'-10"



90° HOOK



180° HOOK

TIE OR STIRRUP

SEISMIC STIRRUP / TIE

NOTE:

FOR 'D' ETC SEE CRSI HANDBOOK GOVERNING EDITION.

PRINCIPAL REINFORCING

MAX OFFSET BEND

BAR DIA	MIN. "D"
#3	2 1/4"
#4	3"
#5	5 3/8"
#6	4 1/2"
#7	5 1/4"
#8	6"
#9	9"
#10	10 1/8"
#11	11 1/4"

DETAIL NOTES:

1. BENDS SHALL BE MADE COLD.
2. #14 AND #18 BARS SHALL BE BEND-TESTED AND APPROVED PRIOR TO BENDING

2 TMS TABLES

TABLE 3 MINIMUM VERIFICATION REQUIREMENTS

MINIMUM VERIFICATION	REQUIRED FOR QUALITY ASSURANCE[a]			REFERENCE FOR CRITERIA
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 602
PRIOR TO CONSTRUCTION, VERIFICATION OF COMPLIANCE OF SUBMITTALS.	R	R	R	ART. 1.5
PRIOR TO CONSTRUCTION, VERIFICATION OF f'_m AND f'_{AAC}, EXCEPT WHERE SPECIFICALLY	NR	R	R	ART. 1.4 B
DURING CONSTRUCTION, VERIFICATION OF SLUMP FLOW AND VISUAL STABILITY INDEX (VSI) WHEN SELF-CONSOLIDATION GROUT IS DELIVERED TO THE PROJECT SITE.	NR	R	R	ART. 1.5 & 1.6.3
DURING CONSTRUCTION, VERIFICATION OF f'_m AND f'_{AAC} FOR EVERY 5,000 sq. ft (465 sq. m)	NR	R	R	ART. 1.5 & 1.6.3
DURING CONSTRUCTION, VERIFICATION OF PROPORTIONS OF MATERIALS AS DELIVERED TO THE PROJECT SITE FOR PREMIXED OR PREBLENDED MORTAR, PRESTRESSING GROUT, AND GROUT OTHER THAN SELF-CONSOLIDATION GROUT.	NR	R	R	ART. 1.5 & 1.6.3

TABLE 4 MINIMUM SPECIAL INSPECTION REQUIREMENTS

INSPECTION TASK	FREQUENCY[a]			REFERENCE FOR CRITERIA	
	LEVEL 1	LEVEL 2	LEVEL 3	TMS 402	TMS 602
1.AS MASONRY CONSTRUCTION BEGINS, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
a.PROPORTIONS OF SITE-PREPARED MORTAR	NR	P	P		ART. 2.1, 2.6 A, & 2.6C
b.GRADE AND SIZE OF PRESTRESSING TENDONS AND AND ACHORAGES	NR	P	P		ART. 2.4 B & 2.4H
c. GRADE, TYPE AND SIZE OF REINFORCEMENT, CONNECTORS, ANCHOR BOLTS, AND PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P		ART. 1.5 & 1.6.3
d. PRESTRESSING TECHNIQUE	NR	P	P		ART. 3.6 B
e. PROPERTIES OF THIN-BED MORTAR FOR AAC MASONRY	NR	C[b]/P[c]	C		ART. 2.1 C.1
f. SAMPLE PANEL CONSTRUCTION	NR	P	C		ART. 1.6 D
2.PRIOR TO GROUTING, VERIFY THAT THE FOLLOWING ARE IN COMPLIANCE:					
a.GROUT SPACE	NR	P	C		ART. 3.2 D & 3.2 F
b.PLACEMENT OF PRESTRESSING TENDONS AND ANCHORAGES	NR	P	P	SEC. 10.8 & 10.9	ART. 2.4 B & 3.6
c. PLACEMENT OF REINFORCEMENT, CONNECTORS, AND ANCHOR BOLTS	NR	P	C	SEC. 6.1, 6.3.1, 6.3.6, & 6.3.7	ART. 3.2 E & 3.4
d. PROPORTIONS OF SITE-PREPARED GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS	NR	P	P		ART. 2.6 B, & 2.4 G.1b
3.VERIFY COMPLIANCE OF THE FOLLOWING DURING CONSTRUCTION:					
a.MATERIALS AND PROCEDURES WITH THE APPROVED SUBMITTALS	NR	P	P		ART. 1.5
b.PLACEMENT OF MASONRY UNITS AND MORTAR JOINT CONSTRUCTION	NR	P	P		ART. 3.3 B
c. SIZE AND LOCATION OF STRUCTURAL MEMBERS	NR	P	P		ART. 3.3 F
d. TYPE, SIZE, AND LOCATION OF ANCHORS, INCLUDING OTHER DETAILS OF ANCHORAGE OF MASONRY TO STRUCTURAL MEMBERS, FRAMES, OR OTHER CONSTRUCTION	NR	P	C	SEC. 6.1, 6.3.1, 6.3.6, & 6.3.7	ART. 2.6 B, & 2.4 G.1b
e. WELDING OF REINFORCEMENT	NR	C	C	SEC. 6.1.6.1.2	
f. PREPARATION, CONSTRUCTION, AND PROTECTION OF MASONRY DURING COLD WEATHER (TEMPERATURE BELOW 40°F (4.4°C)) OR HOT WEATHER (TEMPERATURE ABOVE 90°F (32.2°C))	NR	P	P		ART. 1.8 C & 1.8 D
g.APPLICATION AND MEASUREMENT OF PRESTRESSING FORCE	NR	C	C		ART. 3.6 B
h.PLACEMENT OF GROUT AND PRESTRESSING GROUT FOR BONDED TENDONS IS IN COMPLIANCE	NR	C	C		ART. 3.5 & 3.6 C
i.PLACEMENT OF AAC MASONRY UNITS AND CONSTRUCTION OF THIN-BED MORTAR JOINTS	NR	C[b]/P[c]	C		ART. 3.3 B.9 & 3.3 F.1.b
4.OBSERVE PREPARATION OF GROUT SPECIMENS, MORTAR SPECIMENS, AND/OR PRISMS	NR	P	C		ART. 1.4 B.2.a3, 1.4 B.2b.3, 1.4 B.2.c.3 1.4 B.3 & 1.4 B.4

(a) FREQUENCY REFERS TO THE FREQUENCY OF INSPECTION, WHICH MAY BE CONTINUOUS DURING THE LISTED TASK OR PERIODICALLY DURING THE LISTED TASK, AS DEFINED IN THE TABLE. NR= NOT REQUIRED, P=PERIODIC, C=CONTINUOUS

(b) REQUIRED FOR THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.

(c) REQUIRED AFTER THE FIRST 5000 SQUARE FEET (465 SQUARE METERS) OF AAC MASONRY.

4 POST-INSTALLED ANCHOR NOTES

1) EXCEPT WHERE INDICATED ON THE DRAWINGS, POST-INSTALLED ANCHORS SHALL CONSIST OF THE FOLLOWING ANCHOR TYPES AS PROVIDED BY HILTI, INC. CONTACT HILTI AT (800) 879-8000

a) **ANCHORAGE TO CONCRETE**

i) ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:

(1) **HILTI HIT-HY 200 SAFE SET SYSTEM WITH THE HILTI HIT-Z ROD** PER ICC ESR-3187
(2) **HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM (VC 20-U OR VC 40-U) SYSTEM** WITH HAS-E THREADED ROD PER ICC ESR-3187
(3) **HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM (VC 20-U OR VC 40-U)** WITH HAS-E THREADED ROD PER ICC ESR-3814
(4) **HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL** (TE-YRT) WITH HAS-E THREADED ROD PER ICC ESR-3814 FOR DIAMOND CORED HOLES

ii) MEDIUM DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:

(1) **HILTI KWIK HUS EZ AND KWIK HUS EZ-I SCREW ANCHORS** PER ICC ESR-3027
(2) **HILTI KWIK BOLT-TZ EXPANSION ANCHORS** PER ICC ESR-1917
(3) **HILTI KWIK BOLT 3 EXPANSION ANCHORS** (UNCRACKED CONCRETE ONLY) PER ICC ESR-2302

iii) HEAVY DUTY MECHANICAL ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:

(1) **HILTI HDA UNDERCUT ANCHORS** PER ICC ESR 1546
(2) **HILTI HSL-3 EXPANSION ANCHORS** PER ICC ESR 1545

b) **REBAR DOWELING INTO CONCRETE**

i) ADHESIVE ANCHORS FOR CRACKED AND UNCRACKED CONCRETE USE:

(1) **HILTI HIT-HY 200 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM (VC 20-U OR VC 40-U) SYSTEM** WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3187
(2) **HILTI HIT-HY 500 V3 SAFE SET SYSTEM WITH HILTI HOLLOW DRILL BIT (TE-CD OR TE-YD) AND VC 20/40 VACUUM (VC 20-U OR VC 40-U) SYSTEM** WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3814
(3) **HILTI HIT-RE 500 V3 SAFE SET SYSTEM WITH HILTI ROUGHENING TOOL** (TE-YRT) WITH CONTINUOUSLY DEFORMED REBAR PER ICC ESR-3814 IN DIAMOND CORED HOLES

c) **ANCHORAGE TO SOLID GROUTED MASONRY**

i) ADHESIVE ANCHORS USE:
(1) **HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM (**ICC PENDING).
(2) STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR

ii) MECHANICAL ANCHORS USE:

(1) **HILTI KWIK BOLT-3 EXPANSION ANCHORS** PER ICC ESR 1385

d) **ANCHORAGE TO HOLLOW / MULTI-WYTHE MASONRY**

i) ADHESIVE ANCHORS USE:

(1) **HILTI HIT-HY 70 MASONRY ADHESIVE ANCHORING SYSTEM** PER ICC ESR-3342
(2) STEEL ANCHOR ELEMENT SHALL BE HILTI HAS-E CONTINUOUSLY THREADED ROD OR CONTINUOUSLY DEFORMED STEEL REBAR
(3) THE APPROPRIATE SIZE SCREEN TUBE SHALL BE USED PER ADHESIVE MANUFACTURER'S RECOMMENDATION.

2) ANCHOR CAPACITY USED IN DESIGN SHALL BE BASED ON THE TECHNICAL DATA PUBLISHED BY HILTI OR SUCH OTHER METHOD AS APPROVED BY THE STRUCTURAL ENGINEER OF RECORD. SUBSTITUTION REQUESTS FOR ALTERNATE PRODUCTS MUST BE APPROVED IN WRITING BY THE STRUCTURAL ENGINEER OF RECORD PRIOR TO USE. CONTRACTOR SHALL PROVIDE CALCULATIONS DEMONSTRATING THAT THE SUBSTITUTED PRODUCT IS CAPABLE OF ACHIEVING THE PERFORMANCE VALUES OF THE SPECIFIED PRODUCT. SUBSTITUTIONS WILL BE EVALUATED BY THEIR HAVING AN ICC ESR SHOWING COMPLIANCE WITH THE RELEVANT BUILDING CODE FOR SEISMIC USES, LOAD RESISTANCE, INSTALLATION CATEGORY, AND AVAILABILITY OF COMPREHENSIVE INSTALLATION INSTRUCTIONS. ADHESIVE ANCHOR EVALUATION WILL ALSO CONSIDER CREEP, IN-SERVICE TEMPERATURE AND INSTALLATION TEMPERATURE.

3) INSTALL ANCHORS PER THE MANUFACTURER INSTRUCTIONS, AS INCLUDED IN THE ANCHOR PACKAGING.

4) OVERHEAD ADHESIVE ANCHORS MUST BE INSTALLED USING THE HILTI PROFIS SYSTEM.

5) THE CONTRACTOR SHALL ARRANGE AN ANCHOR MANUFACTURER'S REPRESENTATIVE TO PROVIDE ONSITE INSTALLATION TRAINING FOR ALL OF THEIR ANCHORING PRODUCTS SPECIFIED. THE STRUCTURAL ENGINEER OF RECORD MUST RECEIVE DOCUMENTED CONFIRMATION THAT ALL OF THE CONTRACTOR'S PERSONNEL WHO INSTALL ANCHORS ARE TRAINED PRIOR TO THE COMMENCEMENT OF INSTALLING ANCHORS.

6) ANCHOR CAPACITY IS DEPENDANT UPON SPACING BETWEEN ADJACENT ANCHORS AND PROXIMITY OF ANCHORS TO EDGE OF CONCRETE. INSTALL ANCHORS IN ACCORDANCE WITH SPACING AND EDGE CLEARANCES INDICATED ON THE DRAWINGS.

7) EXISTING REINFORCING BARS IN THE CONCRETE STRUCTURE MAY CONFLICT WITH SPECIFIC ANCHOR LOCATIONS. UNLESS NOTED ON THE DRAWINGS THAT THE BARS CAN BE CUT, THE CONTRACTOR SHALL REVIEW THE EXISTING STRUCTURAL DRAWINGS AND SHALL UNDERTAKE TO LOCATE THE POSITION OF THE REINFORCING BARS AT THE LOCATIONS OF THE CONCRETE ANCHORS, BY HILTI FERROSCAN, GPR, X-RAY, CHIPPING OR OTHER MEANS.

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SPECIAL INSPECTIONS

BOSSIER SCHOOLS "Win the Day!"

BPSB PROJECT #26-02

job no: 2511

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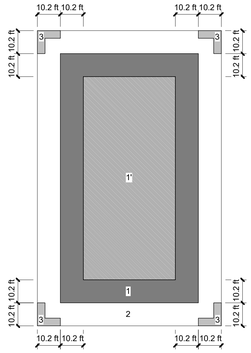
SEQ 13 of 63

1 C&C WIND PRESSURE

CONNECTOR ASCE 7-16 ULTIMATE WIND PRESSURES, W FOR COMPONENTS AND CLADDING (psf)				
	ZONE	EFFECTIVE WIND AREA (sqft)	POSITIVE PRESSURE	NEGATIVE PRESSURE
ROOF	1	≤10	16.0	-44.4
	1	100	16.0	-34.6
	1	200	16.0	-31.7
	1	500	16.0	-27.8
	1'	10	16.0	-25.5
	1'	100	16.0	-25.5
	1'	500	16.0	-16.0
	1'	1000	16.0	-16.0
	2	10	16.0	-58.5
	2	100	16.0	-46.0
	2	200	16.0	-42.3
	2	500	16.0	-37.3
	3	10	16.0	-79.8
	3	100	16.0	-54.8
	3	200	16.0	-47.2
	3	500	16.0	-37.3
WALLS	4	≤10	25.5	-27.6
	4	50	22.9	-25.0
	4	200	20.6	-22.7
	4	500	19.1	-21.2
	5	10	25.5	-34.0
	5	50	22.9	-28.7
	5	200	20.6	-24.2
	5	500	19.1	-21.2

* REFERENCE FIGURE BELOW FOR LOCATIONS OF ZONE 1,2, AND 3. ZONE 4 INCLUDES THOSE WALL ELEMENTS LOCATED OUTSIDE OF 6.8 FEET OF A BUILDING CORNER, AND ZONE 5 INCLUDES THOSE WALL ELEMENTS LOCATED WITHIN 6.8 FEET OF A BUILDING CORNER.



2 CONCRETE LAP SCHEDULE

TENSION SPLICES (IN.) 3,500 psi CONCRETE NORMAL REBAR				
BAR SIZE	TOP BARS		OTHER BARS	
	A	B	A	B
#3	20	26	16	20
#4	27	35	21	27
#5	33	43	26	33
#6	40	52	31	40
#7	58	75	45	58
#8	66	86	51	66
#9	75	97	58	75
#10	84	109	65	84
#11	93	121	72	93

TENSION SPLICES (IN.) 4,000 psi CONCRETE NORMAL REBAR				
BAR SIZE	TOP BARS		OTHER BARS	
	A	B	A	B
#3	19	25	15	19
#4	25	33	19	25
#5	31	41	24	31
#6	37	49	29	37
#7	54	71	42	54
#8	62	81	48	62
#9	70	91	54	70
#10	79	102	61	79
#11	87	114	87	87

3 CMU REINFORCEMENT LAP SCHEDULE

LAP SPLICES (IN.) 8" CMU 2,500 psi CMU		
BAR SIZE	CENTERED (1 PER CELL)	EDGE (2 PER CELL)
#3	12	15
#4	12	26
#5	18	41
#6	34	76
#7	46	104
#8	71	156

LAP SPLICES (IN.) 12" CMU 2,500 psi CMU		
BAR SIZE	CENTERED (1 PER CELL)	EDGE (2 PER CELL)
#3	12	15
#4	12	26
#5	12	41
#6	21	58
#7	29	78
#8	45	117

CMU WALL SCHEDULE			
MARK	SIZE	Vertical	Bond Beams
CMU-1	8 in	#5@40"oc	(2)#5 @ 8'oc
CMU-2	8 in	#5@40"oc	(2)#5 @ 8'oc
CMU-3	8 in	#6@8"oc	(2)#6 @ 8'oc

FOOTING SCHEDUE				
Type Mark	Length	Width	Reinforcement	Footing Thickness
A1	4' - 0"	4' - 0"	(5) #5s EA WAY	1' - 3"
A2	5' - 0"	5' - 0"	(6) #5s EA WAY	1' - 3"
B1	4' - 0"	4' - 0"	(5) #5s EA WAY	1' - 3"
B2	5' - 0"	5' - 0"	(6) #5s EA WAY	1' - 3"

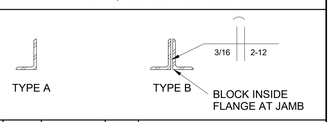
CMU LINTEL SCHEDULE						
TYPE MARK	LINTEL DEPTH	REINFORCEMENT			JAMB	BRG
		TOP	BOTTOM	STIRRUPS	VERTICAL	
A	8 in	N/A	(2) #5	N/A	(2) #6 EA. CELL	8 in
B	16 in	(2) #6	(2) #6	N/A	(2) #6 EA. CELL	16 in
C	40 in	(2) #6	(2) #6	N/A	(2) #6 EA. CELL	24 in
D	16 in	(2) #6	(2) #6	N/A	(2) #6 EA. CELL	12 in
E	16 in	(2) #5	(2) #5	N/A	(2) #6 EA. CELL	8 in
F	8 in	N/A	(2) #5	N/A	(2) #5 EA. CELL	8 in

WALL FOOTING SCHEDULE				
TYPE MARK	WIDTH	THICKNESS	LONG BARS	SHORT BARS
WF-1	24"	15"	(3) #5	#5@12"oc
WF-2	30"	12"	(3) #5	#5@12"oc
WF-3	36"	15"	(4) #5	#5@12"oc
WF-4	48"	15"	(5) #5	#5@12"oc

LIGHT GAUGE HEADER SCHEDULE				
SPAN	HEADER	SILL	JAMB STUDS	CLIPS
0< L ≤ 42"	(2) 600S162-43	600T125-43	(2) 600162-43	(2) L3x3x12ga 5x5½ W/ (10) #10
42"< L ≤ 72"	(2) 600S200-54	600T125-43	(2) 600200-54	(2) L3x3x12ga 5x5½ W/ (10) #10
72"< L ≤ 120"	(2) 800S200-54	600T125-43 +600S162-43	(2) 800200-54	(2) L3x3x12ga 5x7½ W/ (16) #10
120"< L ≤ 144"	(2) 1000S200-54	600T125-43 +600S162-43	(2) 600300-68	(2) L3x3x12ga 5x9½ W/ (24) #10
144"< L ≤ 192"	(2) 1000S200-54	600T125-43 +(2)600S200-54	(2) 600300-68	(2) L3x3x12ga 5x9½ W/ (24) #10

NOTE: RE: T/S6.1 FOR HEADER DETAIL

LOOSE LINTEL SCHEDULE



SPAN	TYPE	MEMBER	BRG	NOTES
0 < L < 36"	A	L7x4x3/8	6	
36" < L < 72"	A	L7x4x3/8	8	
72" < L				SEE STRUCTURAL

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SCHEDULES

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1 STORM SHELTER NOTES

STORM SHELTER

1. DESIGN INFORMATION
   - A. Shelter Type : Community Tornado Storm Shelter
   - B. Storm Shelter Use: Building Occupants
   - C. Design Code : IBC 2021 and ICC 500-2020 Standard for the Design and Construction of Storm Shelters
2. WIND LOADS

A.	Shelter Design Wind Speed	Vt = 250 mph
B.	Wind Exposure Classification	C
C.	Internal Pressure Coefficient	+/- 0.55
D.	Topographic Factor	1.0
E.	Directionality Factor	1.0
F.	C&C Wind Pressures	See 2/S1.2

3. FLOOD SUSCEPTIBILITY
   - A. The Community Tornado Storm Shelter is not located in an area susceptible to flooding. See Civil drawings for additional information. Per Table 402.1, Storm Shelter is NOT subject to the requirements of Section 402.
4. COMMUNITY TORNADO STORM SHELTER ENVELOPE REPORTS
   - A. In accordance with ICC 500-2020, Section 106.2.1 Item 12, the following reports are included by reference as substantiating documentation indicating the storm shelter wall and roof assemblies meet the missile impact test requirements. See Architectural Drawings for components protecting openings in the storm shelter envelope unless specifically included in the structural drawings (ex: structural baffling at openings).
     - a. Report: Debris Impact Resistance of Building Assemblies submitted to National Institute of Science and Technology, A Compilation of Testing performed by The Wind Science and Engineering Research Center Texas Tech University & Florida A&M University, Florida State University, and University of Florida; August 2006
     - b. Construction Materials Threshold Testing, Wind Science and Engineering Research Center, Texas Tech University, November 2004
5. STORM SHELTER ENVELOPE
   - A. Community Tornado Storm shelter wall and roof assemblies are consistent with previously tested assemblies documented in the referenced Community Tornado Storm Shelter Envelope Reports. Assembly testing was conducted in accordance with procedures of ICC500-2020 Section 803 to meet criteria outlined in Section 305.1.1. Minimum threshold missile speed is equal to or greater than 100 mph for vertical surfaces (wall) and equal to or greater than 67 mph for horizontal surfaces (roof).
   - B. Vertical Surfaces
     - a. Storm Shelter wall components consist of solid grouted concrete masonry unit walls with horizontal and vertical reinforcing.
     - b. See Section A3 of Construction Materials Threshold Testing Report
   - C. Horizontal Surfaces
     - a. Storm Shelter roof components consist of a 4" concrete over 2" composite deck (6" Total Thickness) slab with specified reinforcing placed over composite steel bar joist.
     - b. See Section A1 of Construction Materials Threshold Testing Report.
   - D. Storm Shelter Foundation Capacity (*)

a.	Ground Floor Live Load	100 psf	
b.	Roof Live Load	100 psf	
c.	Maximum Wall Pressure	101 psf	(1),(2)
d.	Maximum Roof positive pressure	5 psf	(1),(3)
e.	Maximum Roof negative (uplift) pressure	-111 psf	(1),(3)
f.	Overturning and Uplift		(4)

   Note:
   - (*) See Table for Components and Cladding wind pressures
   - (1) Wind pressures are for the Main Windforce Resisting System (MWFRS)
   - (2) Wind pressures are LRFD combined windward and leeward pressures and act in either direction
   - (3) Positive wind pressures act vertically downward toward the foundation. Negative (uplift) pressures act vertically upward away from the foundation and are LRFD gross uplift pressures
   - (4) Storm shelter foundation structural components designed for combined overturning and uplift induced by Design Wind Load Quality Assurance Plan
6. See Statement of Special Inspections 1/S1.1 for special inspections and testing in accordance with the Building Code. Additional Special Inspections for post-installed anchors:
   - A. Provide special inspection of anchors post-installed in concrete when used for anchorage of shelter components forming part of the storm shelter enclosure or for anchorage of the shelter structure to the foundation.
     - a. Special inspection to verify anchor installation and capacity.
7. See 2.5/S1.4 for Main Windforce Resisting components. Components of the Main Windforce Resisting System are subject to Special Inspection in accordance with the Storm Shelter Statement of Special Inspections. The Storm Shelter special inspections, type, and frequency are specific to the storm shelter structural components and are in addition to special inspections required for the host building.
8. Structural Observations will be conducted in accordance with ICC 500-2020, Section 111 or general conformance to the structural drawings. Observations will occur at the following construction stages:
   - A. Immediately prior to placement of concrete for grade beams.
   - B. Continuous during wall grouting operations and embed placement.
   - C. Immediately prior to placement of elevated composite concrete slab.
   - D. After completion of installation of all storm shelter structural components.

   Contractor to schedule structural observations with Engineer. Work shall remain accessible and exposed until completion of each structural observation and required special inspections
9. Noncompliant or remedial work will require re-inspection or Special Inspection respectively.
10. Provide test reports for the Storm Shelter in a manner consistent with requirements specified for the host building in the Project Specifications.
11. CONTRACTOR RESPONSIBILITY
    Each contractor responsible for the construction, fabrication or installation of a main windforce-resisting system or any component listed in the quality assurance plan shall submit a written statement of responsibility to the authority having jurisdiction, the Engineer of record and the Owner prior to the commencement of work on the system or component. The contractor's statement of responsibility shall contain the following:
    - A. Acknowledgement of awareness of the special requirements contained in the quality assurance plan.
    - B. Acknowledgement that control will be exercised to obtain compliance with the construction documents.
    - C. Procedures for exercising control within the contractor's organization, the method and frequency of reporting and the distribution of reports.
    - D. Identification and qualifications of the person(s) exercising such control and their position(s) in the organization.
12. OPENING PROTECTION
    Opening protective devices have very specific connections tested for ICC 500- 2020 compliance. Deviations from the specified connections and tolerances will not be acceptable. Special care and coordination are required to layout the openings for the shelter to coordinate with the protection devices. Additional shims and alternate connections will not be allowed. All opening protective devices must have a Testing Lab compliance sticker stating ICC 500-2020 testing compliance visible for verification.

2 QUALITY ASSURANCE PLAN

1. Special inspections and testing shall be performed in accordance with ICC 500, section 106.2 and as described below for the main wind force resisting systems and wind resisting components.
2. Structural observations by a registered design professional shall be performed in accordance with ICC 500, section 106.4. The general contractor shall notify the owner, architect, engineer, registered design professional in responsible charge, and independent registered design professional not less than 48 hours prior to concealing each significant stage of construction and prior to each concrete pour.
3. Reports of each inspection, test and/or observation shall be submitted in writing within 72 hours to the owner, architect, engineer, registered design professional in responsible charge, independent registered design professional, and the general contractor.
4. All deficiencies from the contract documents noted during special inspections, testing and/or structural observations shall be included in the reports and submitted to the authority having jurisdiction.
5. Main Wind Force Resisting Systems (MWFRS):
   - A. THE MWFRS consists of a cast-in-place roof slab over composite bar joist, reinforced concrete masonry walls bearing on cast-in-place footings with drilled shafts. The following sections describe the requirements for inspection of each component of the MWFRS.
   - B. Foundation Elements:
     - a. Cast-in-place concrete footings support the storm shelter.
     - b. Special inspections and testing shall be performed in accordance with special inspections on 1/S1.1.
   - C. Main Wind Force Resisting System Connections to the Foundation:
     - a. The reinforced masonry concrete walls are anchored to the foundations using cast-in-place rebar dowels.
     - b. Special inspections and testing shall be performed in accordance with special inspections on 1/S1.1 & 2/S1.1.
   - D. Main Wind Force Resisting Systems, including Shear Walls:
     - a. The MWFRS includes ordinary reinforced masonry shear walls.
     - b. Special inspections and testing shall be performed in accordance with special inspections on 1/S1.1 & 2/S1.1
   - E. Wall Connections to Roof and Floor Diaphragms and Framing:
     - a. The reinforced concrete masonry walls are connected to the roof diaphragm by steel embeds with cast in place headed concrete anchors.
     - b. Special inspections and testing shall be performed in accordance with special inspections on 1/S1.1.
   - F. Roof and Floor Diaphragm Systems, including Connectors, Drag Struts and Boundary Elements:
     - a. The roof diaphragm is a cast in place concrete slab over a composite metal deck. Shear stud connectors anchor the roof slab to the steel joist.
     - b. Special inspections and testing shall be performed in accordance with special inspections on 1/S1.1.
   - G. Wind Resisting Components
     - a. Roof cladding and soffits: Refer to architectural for requirements.
   - H. Critical Support Systems and Connections and Debris Impact Protection of the Components and Connections:
     - a. Special inspections and testing shall be performed in accordance with special inspections on 1/S1.1.
     - b. Refer to Architectural and MEP for add'l requirements.
   - I. Fabrication and installation of components and assemblies of the shelter envelope required to meet Missile Impact Test Requirements of ICC 500, Chapter 3:
     - a. Steel enclosures provide missile impact resistance at penetrations of the storm shelter roof.
     - b. Special inspections and testing shall be performed in accordance with on 1/S1.1.
     - c. Inspection of fabricators shall be performed in accordance with section on 1/S1.1.
     - d. Refer to architectural for add'l requirements.
   - J. Wall Cladding and Wall Cladding Connections:
     - a. Refer to architectural for requirements.
   - K. Missile Impact Test Requirements
     - a. Perimeter Walls: The wall assembly meets or exceeds the requirement for a 8" CMU wall with #4 rebar at 8"o.c. and truss type horizontal joint reinforcing at 16"o.c. per "Debris Impact Testing Report" published by Texas Tech University.
     - b. Roof System: The roof shall meet or exceeds the requirement for a 4" concrete slab reinforced with #4 at 12"o.c.e.w. per "Debris Impact Testing Report" published by Texas Tech University.
     - c. Building Penetrations: The louvers used for penetrations larger than 4" have been tested and are ICC 500 compliant.

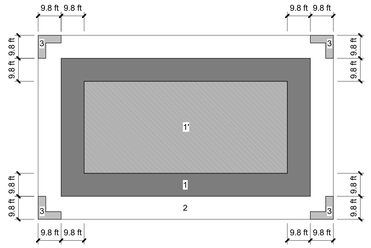
NOTE: Prior to beginning any work on the storm shelter, general contractor shall prepare and submit to E.O.R. a penetration plan showing:
1. The elevation of each wall with all penetrations clearly marked in both horizontal and vertical dimensions; and,
2. A plan of the roof showing all penetrations with dimensions.

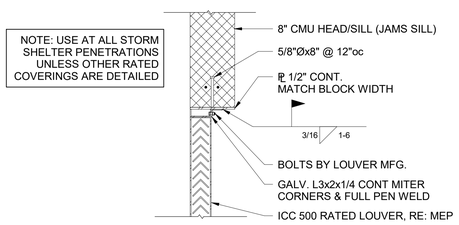
3 C&C WIND PRESSURE STORM SHELTER

STORM SHELTER ASCE 7-16 ULTIMATE WIND PRESSURES, W FOR COMPONENTS AND CLADDING (psf)

	ZONE	EFFECTIVE WIND AREA (sqft)	POSITIVE PRESSURE	NEGATIVE PRESSURE
ROOF	1	≤10	116.6	-308.5
	1	100	102.8	-252.0
	1	200	102.8	-252.0
	1	500	102.8	-212.5
	1*	10	116.6	-198.8
	1*	100	102.8	-198.8
	1*	500	102.8	-150.9
	1*	1000	102.8	-130.3
	2	10	116.6	-390.8
	2	100	102.8	-318.2
	2	200	102.8	-296.3
	2	500	102.8	-267.4
	3	10	116.6	-514.2
	3	100	102.8	-368.9
	3	200	102.8	-325.2
	3	500	102.8	-267.4
WALLS	4	≤10	198.8	-211.2
	4	50	183.6	-195.9
	4	200	170.5	-182.8
	4	500	161.8	-174.1
	5	10	198.8	-248.2
	5	50	183.6	-217.7
	5	200	170.5	-191.5
	5	500	161.8	-174.1

* REFERENCE FIGURE BELOW FOR LOCATIONS OF ZONE 1,2, AND 3.. ZONE 4 INCLUDES THOSE WALL ELEMENTS LOCATED OUTSIDE OF 6.5 FEET OF A BUILDING CORNER, AND ZONE 5 INCLUDES THOSE WALL ELEMENTS LOCATED WITHIN 6.5 FEET OF A BUILDING CORNER.

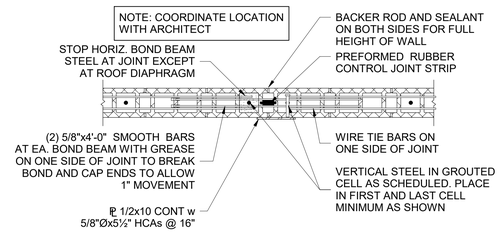




LOUVER ATTACHMENT DETAIL

DETAIL A

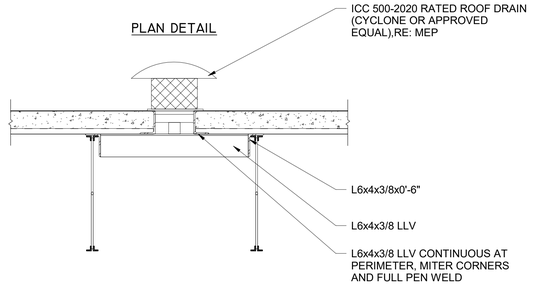
SCALE: 3/4" = 1'-0"



MASONRY CONTROL JOINT AT STORM SHELTER

DETAIL B

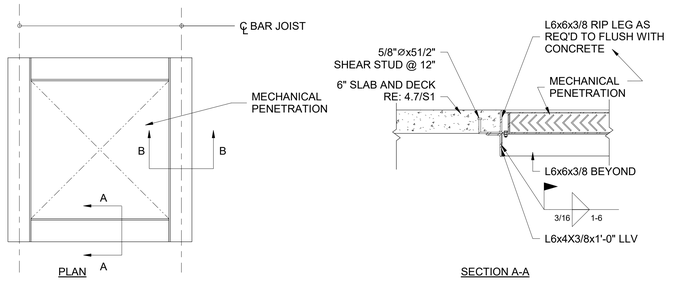
SCALE: 3/4" = 1'-0"

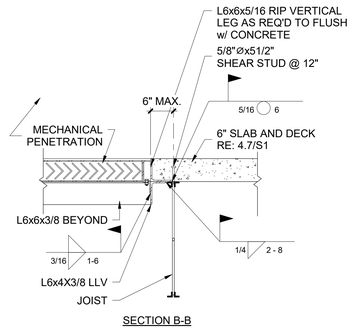


ROOF DRAIN AT STORM SHELTER

DETAIL C

SCALE: 3/4" = 1'-0"

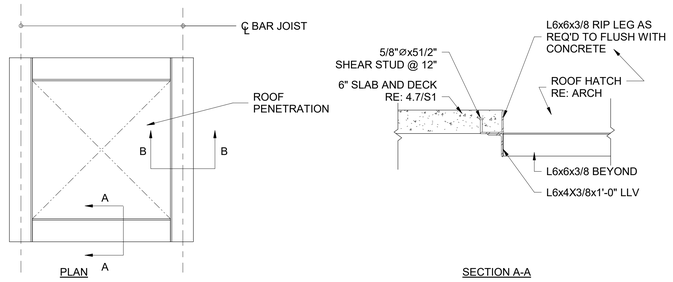


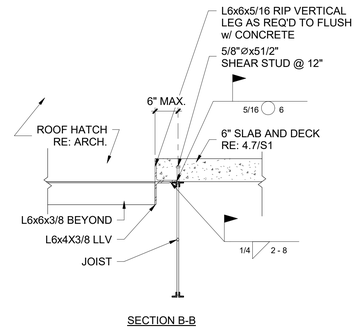


EQUIPMENT FRAME AT STORM SHELTER

DETAIL D

SCALE: 3/4" = 1'-0"





ROOF HATCH AT STORM SHELTER

DETAIL E

SCALE: 3/4" = 1'-0"

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NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

STORM SHELTER NOTES AND DETAILS

BOSSIER SCHOOLS "Win the Day!"

BPSB PROJECT #26-02

job no: 2511

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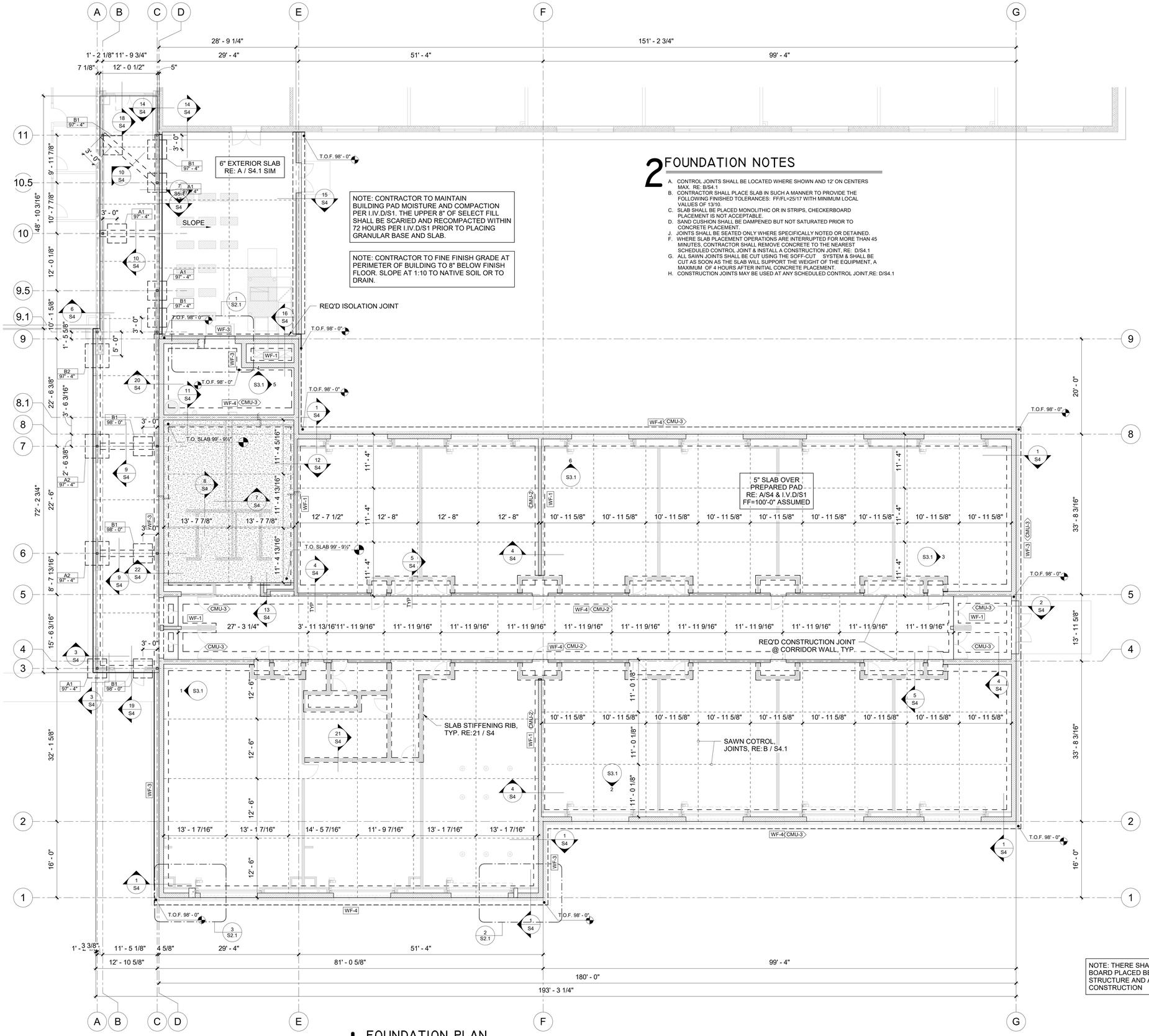

2 FOUNDATION NOTES

A. CONTROL JOINTS SHALL BE LOCATED WHERE SHOWN AND 12' ON CENTERS MAX. RE: B/S4.1
B. CONTRACTOR SHALL PLACE SLAB IN SUCH A MANNER TO PROVIDE THE FOLLOWING FINISHED TOLERANCES: FF/FL=25/17 WITH MINIMUM LOCAL VALUES OF 13/10.
C. SLAB SHALL BE PLACED MONOLITHIC OR IN STRIPS, CHECKERBOARD PLACEMENT IS NOT ACCEPTABLE.
D. SAND CUSHION SHALL BE DAMPENED BUT NOT SATURATED PRIOR TO CONCRETE PLACEMENT.
J. JOINTS SHALL BE SEATED ONLY WHERE SPECIFICALLY NOTED OR DETAINED.
F. WHERE SLAB PLACEMENT OPERATIONS ARE INTERRUPTED FOR MORE THAN 45 MINUTES, CONTRACTOR SHALL REMOVE CONCRETE TO THE NEAREST SCHEDULED CONTROL JOINT & INSTALL A CONSTRUCTION JOINT, RE: D/S4.1
G. ALL SAWN JOINTS SHALL BE CUT USING THE SOFF-CUT SYSTEM & SHALL BE CUT AS SOON AS THE SLAB WILL SUPPORT THE WEIGHT OF THE EQUIPMENT, A MAXIMUM OF 4 HOURS AFTER INITIAL CONCRETE PLACEMENT.
H. CONSTRUCTION JOINTS MAY BE USED AT ANY SCHEDULED CONTROL JOINT,RE: D/S4.1

NOTE: THERE SHALL BE A 1/2" ISOLATION BOARD PLACED BETWEEN SHELTER STRUCTURE AND ALL SURROUNDING CONSTRUCTION

2 FOUNDATION PLAN

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

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FOUNDATION PLAN

BPSB PROJECT #26-02

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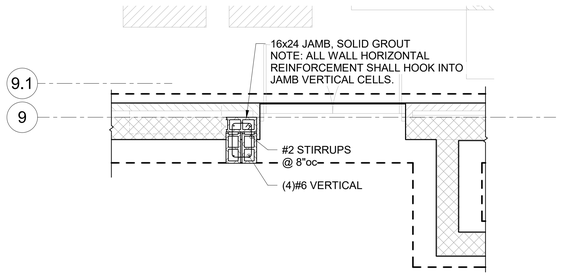
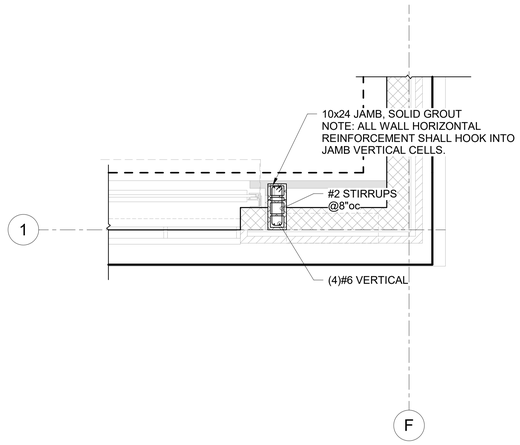


1 ENLARGED PILASTER PLAN

SCALE: 3/8" = 1'-0"



2 ENLARGED PILASTER PLAN

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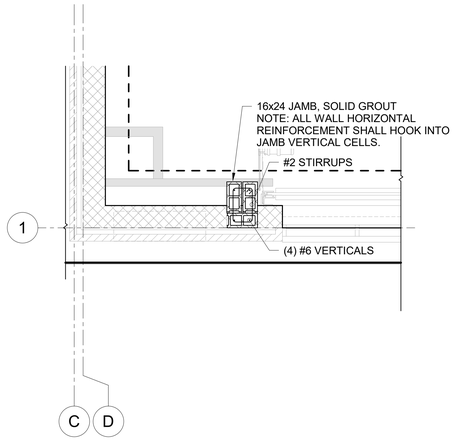

3 ENLARGED PILASTER PLAN

SCALE: 3/8" = 1'-0"

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ENLARGED JAMB PLANS

BOSSIER SCHOOLS "Win the Day!"

BPSB PROJECT
#26-02

job no: 2511

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S2.1

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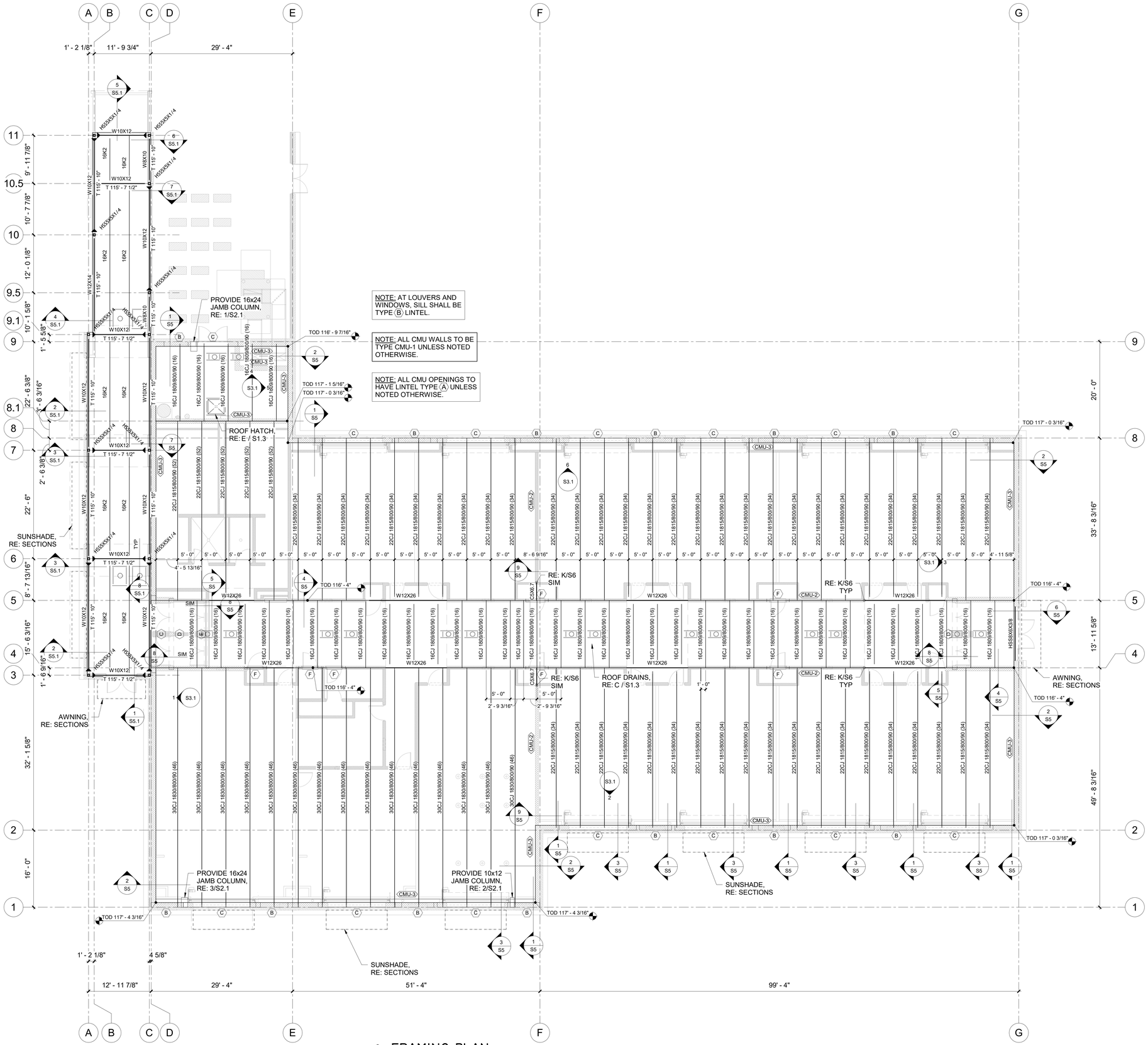

FRAMING PLAN

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

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FRAMING PLAN

BOSSIER SCHOOLS "Win the Day!"

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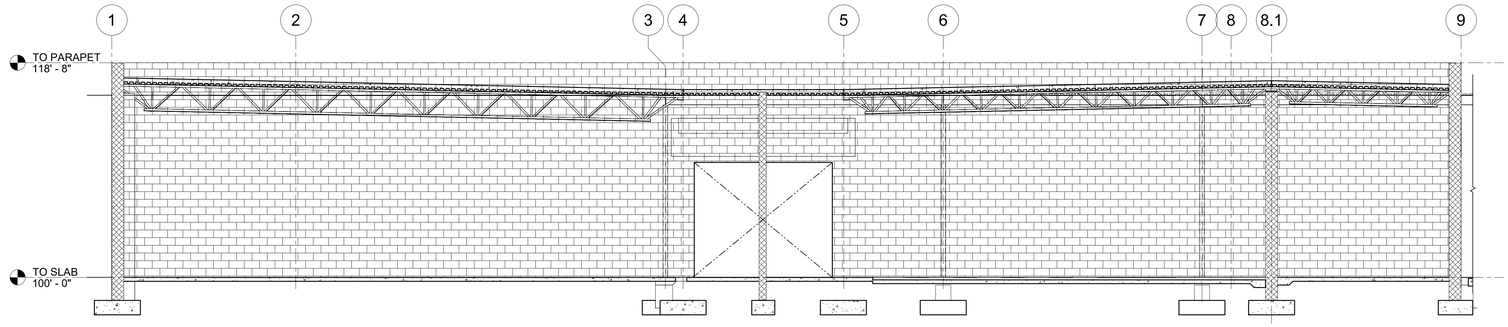
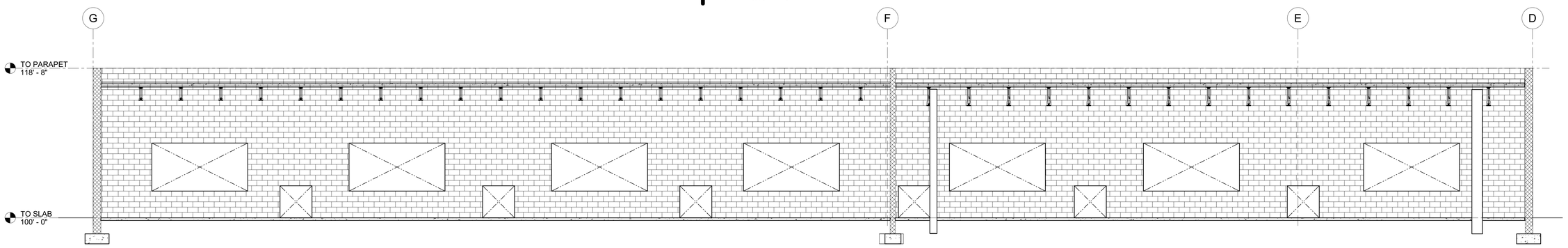


1 WEST SHELTER WALL ELEVATION

SCALE: 3/16" = 1'-0"



2 SOUTH SHELTER WALL ELEVATION

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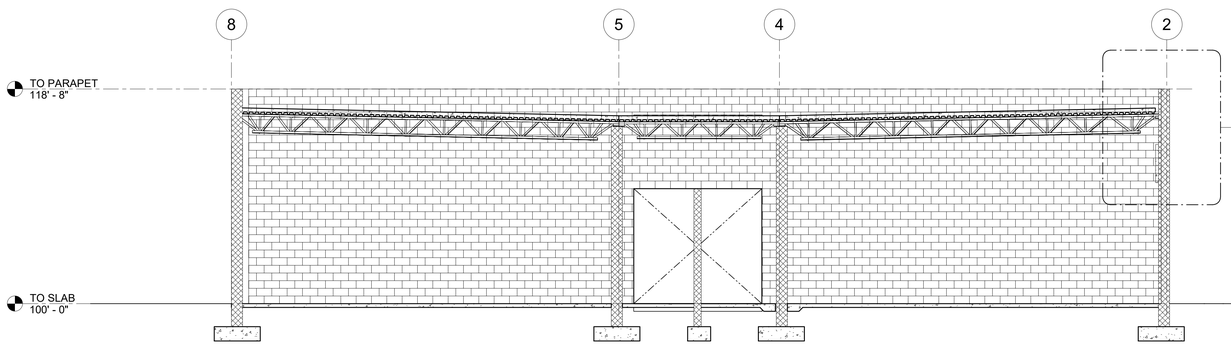

3 EAST SHELTER WALL ELEVATION

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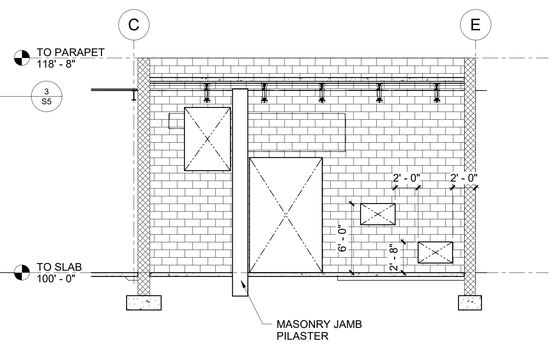
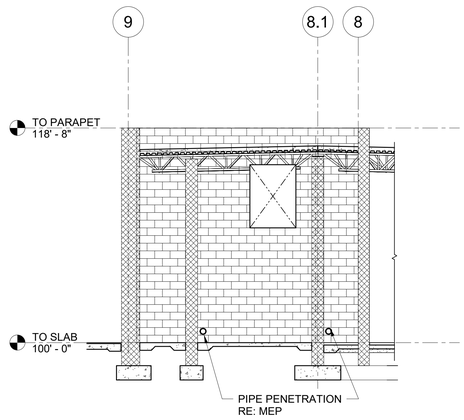


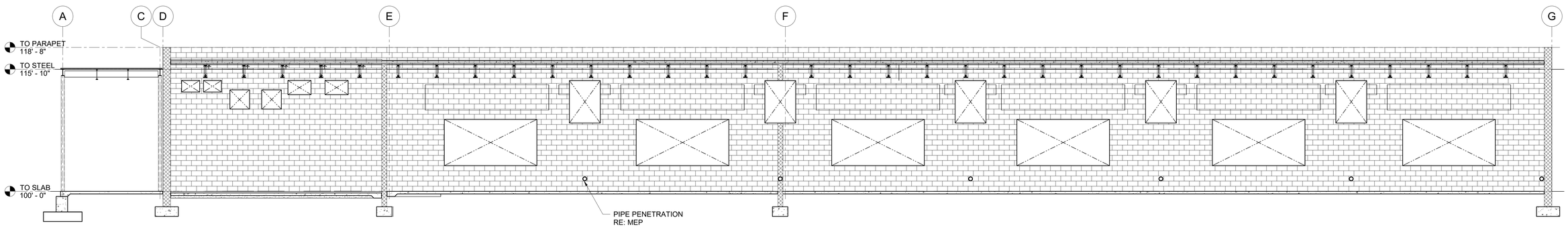
4 NORTH SHELTER WALL (GRID 9) ELEVATION

SCALE: 3/16" = 1'-0"



5 EAST SHELTER WALL (GRID E) ELEVATION

SCALE: 3/16" = 1'-0"



6 NORTH SHELTER WALL ELEVATION

SCALE: 3/16" = 1'-0"

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SHELTER ELEVATIONS

BOSSIER SCHOOLS "Win the Day!"

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job no: 2511

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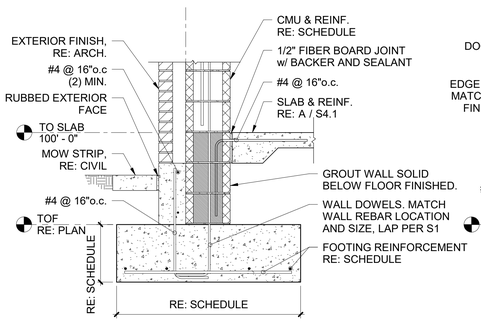

SECTION 1
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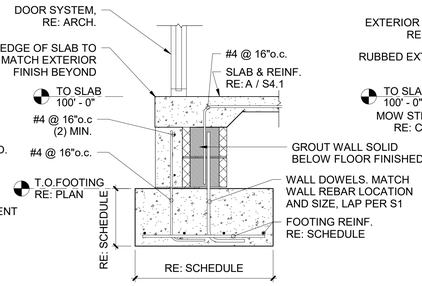

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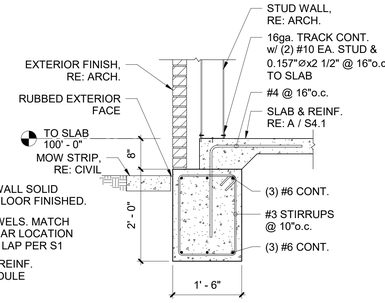

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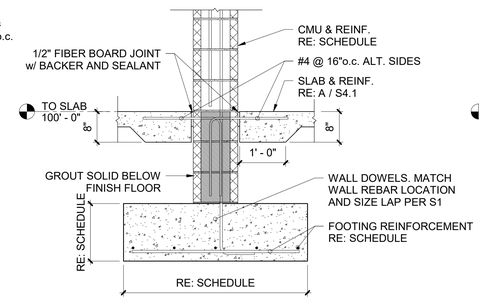

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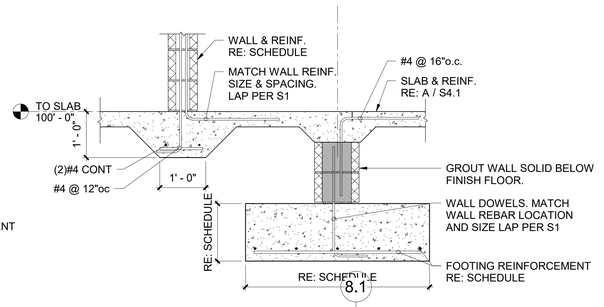

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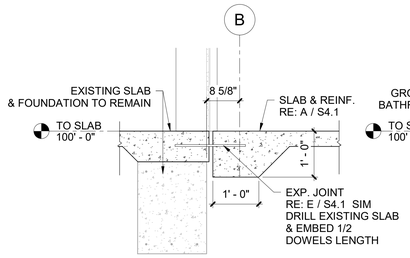

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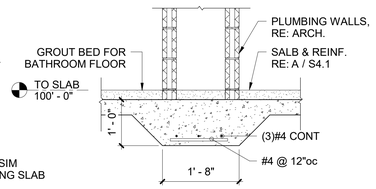

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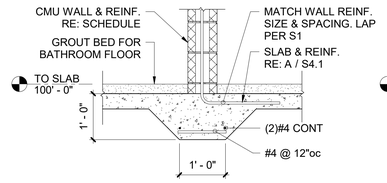

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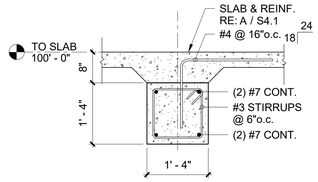

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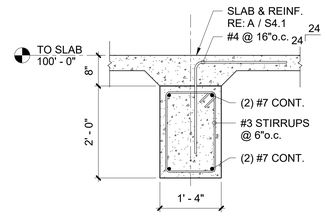
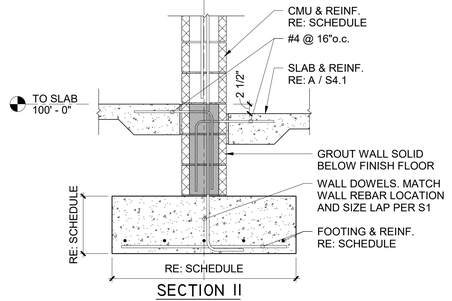


SECTION 10
SCALE: 3/4" = 1'-0"



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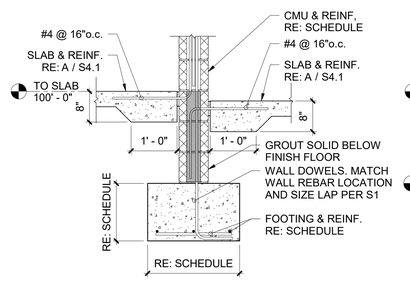

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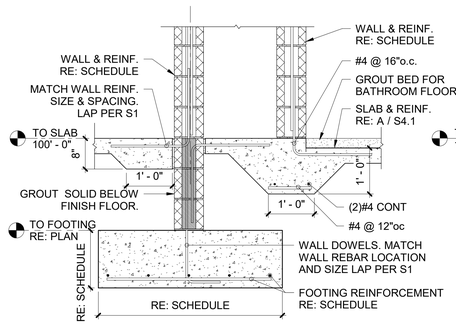

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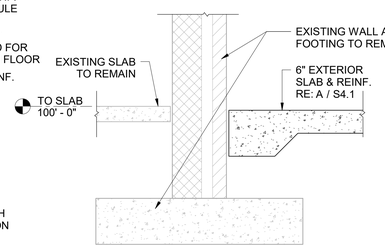

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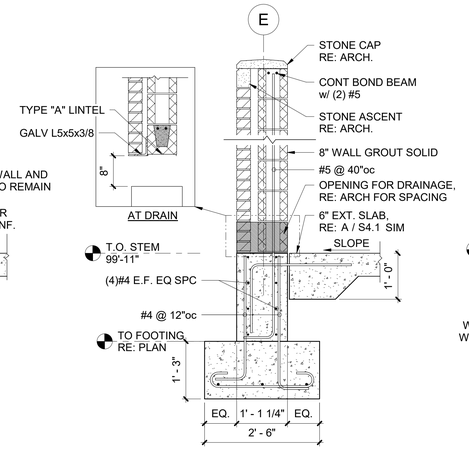

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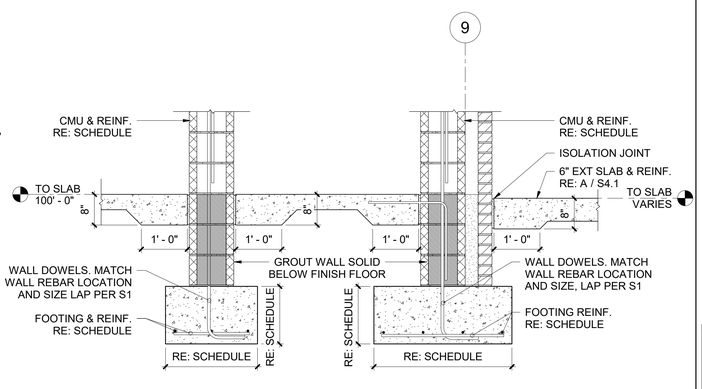

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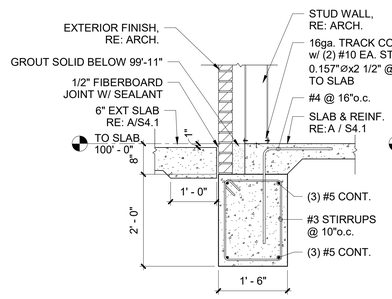

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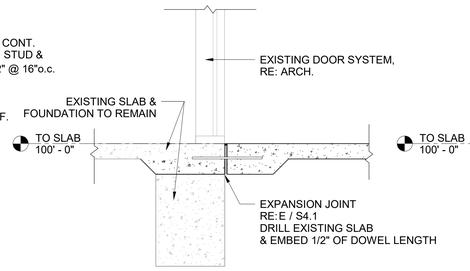

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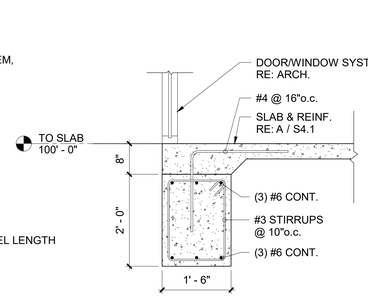

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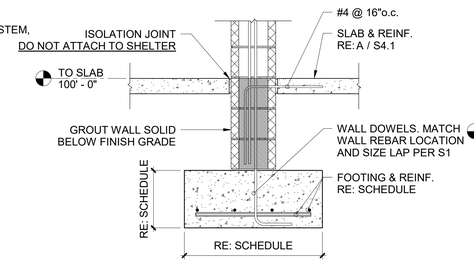

SECTION 20
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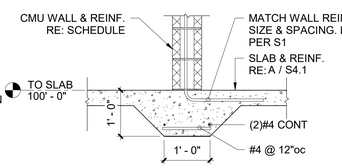

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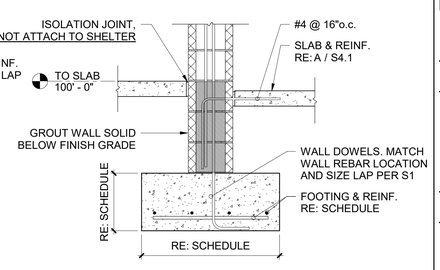

SECTION 22
SCALE: 3/4" = 1'-0"

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FOUNDATION SECTIONS

BOSSIER SCHOOLS "Win the Day!"

BPSB PROJECT
#26-02

job no: 2511

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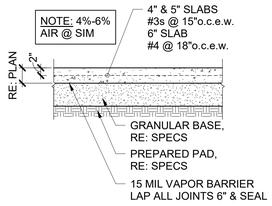
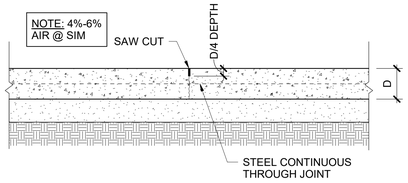


SLAB TYPES

DETAIL A

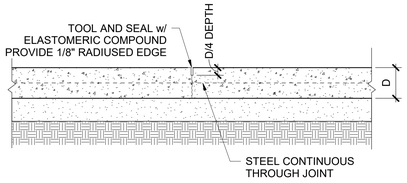
SCALE: 3/4" = 1'-0"



TYPICAL SAWN CONTROL JOINT

DETAIL B

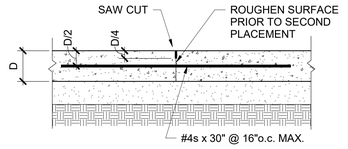
SCALE: 1 1/2" = 1'-0"



TYPICAL TOOLED CONTROL JOINT

DETAIL C

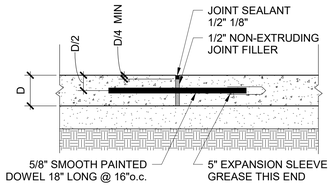
SCALE: 1 1/2" = 1'-0"



TYPICAL CONSTRUCTION JOINT

DETAIL D

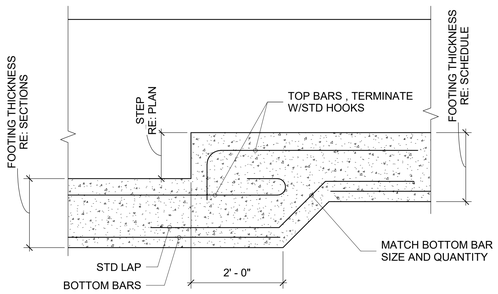
SCALE: 1 1/2" = 1'-0"



EXPANSION JOINT

DETAIL E

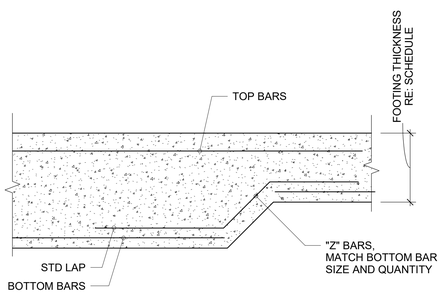
SCALE: 1 1/2" = 1'-0"



STEP FOOTING DETAIL

DETAIL F

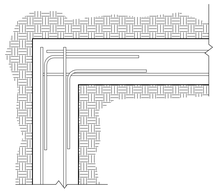
SCALE: 3/4" = 1'-0"



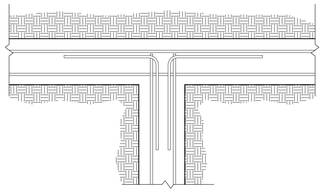
STEP GRADE BEAM DETAIL

DETAIL G

SCALE: 3/4" = 1'-0"



TYPICAL CORNER DETAIL

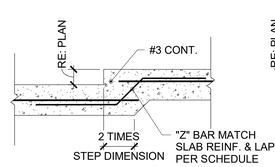


TYPICAL INTERSECTION DETAIL

TYPICAL GRADE BEAM REINFORCEMENT DETAIL

DETAIL H

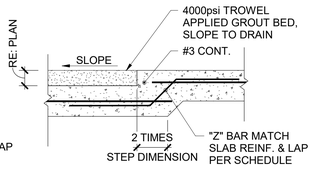
SCALE: 3/4" = 1'-0"



SLAB STEP DETAIL

DETAIL J

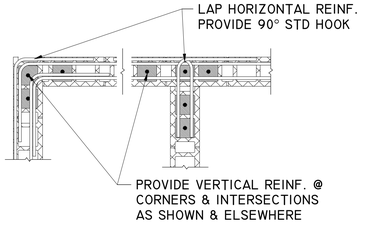
SCALE: 3/4" = 1'-0"



SLAB STEP @ RESTROOMS

DETAIL K

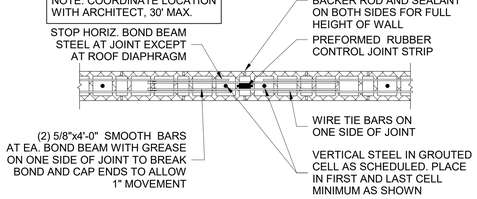
SCALE: 3/4" = 1'-0"



STEEL PLACEMENT DETAIL

DETAIL L

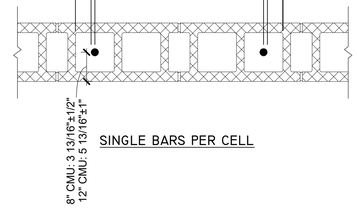
SCALE: 3/4" = 1'-0"



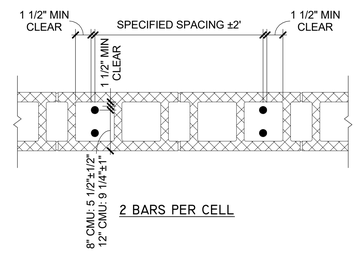
WALL CONTROL JOINT

DETAIL M

SCALE: 3/4" = 1'-0"



SINGLE BARS PER CELL

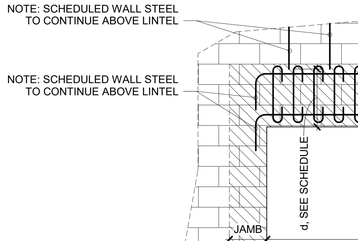


2 BARS PER CELL

BAR SPACING DETAIL

DETAIL N

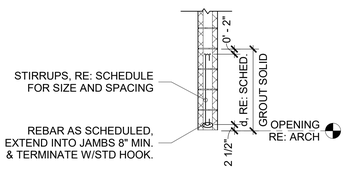
SCALE: 1 1/2" = 1'-0"

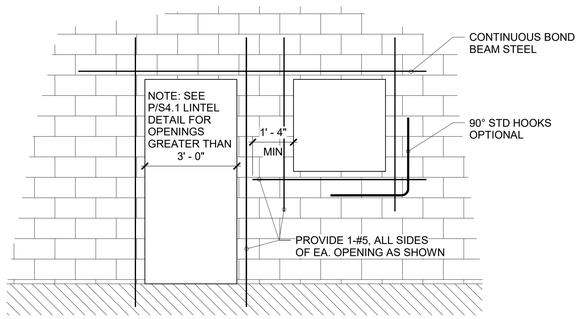


TYPICAL LINTEL DETAIL

DETAIL P

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

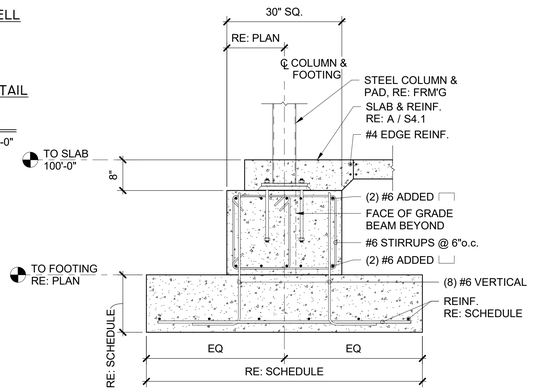




TYPICAL OPENING REINF. DETAIL

DETAIL Q

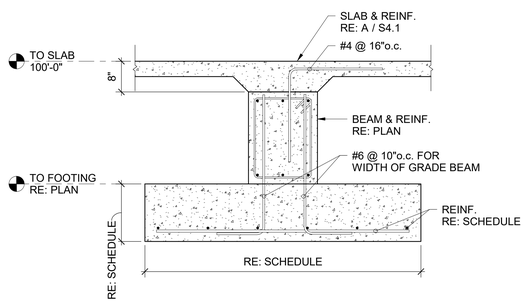
SCALE: 1/2" = 1'-0"



FOOTING TYPE A

DETAIL R

SCALE: 3/4" = 1'-0"



FOOTING TYPE B

DETAIL S

SCALE: 3/4" = 1'-0"

BLEDSOE
ARCHITECTS
735 ROBINHOOD STREET
SHREVEPORT, LA 71106
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FAX: (318)219-2296

BRIAN K. SMITH REG. No. 28402 PROFESSIONAL ENGINEER STATE OF LOUISIANA 1/14/2026

BK SMITH
ENGINEERING CO., INC.
1914 CITIZENS BANK DR.
BOSSIER CITY, LOUISIANA
318-741-0127

NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

FOUNDATION DETAILS

BOSSIER SCHOOLS "Win the Day!"

BPSB PROJECT #26-02

job no: 2511

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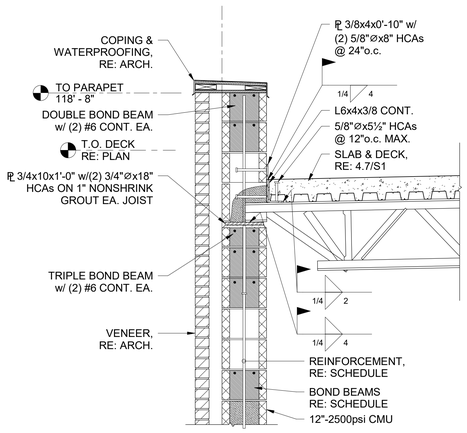
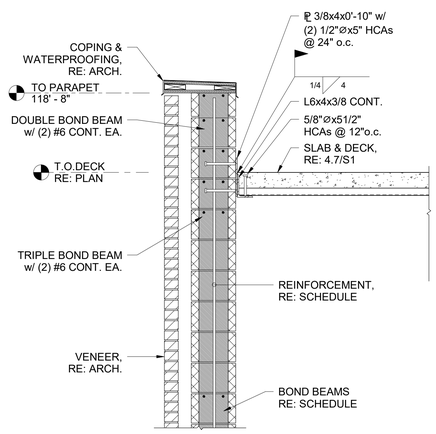
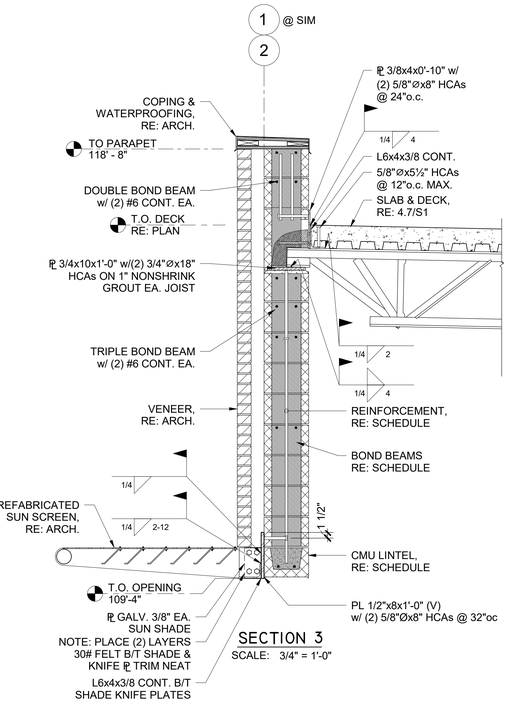


SECTION 1
SCALE: 3/4" = 1'-0"

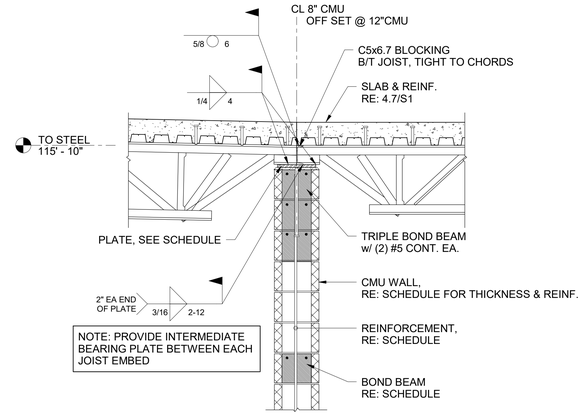


SECTION 2
SCALE: 3/4" = 1'-0"



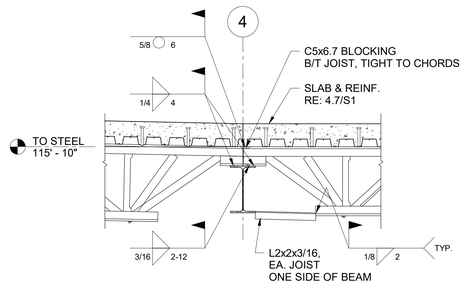
SECTION 3
SCALE: 3/4" = 1'-0"

CMU SIZE	JOIST PLATE	INTERMEDIATE PLATE
8"	3/4"x7"x2'-0" w/ (3) 3/4"Øx18" HCAs	3/4"x7"x1'-0" w/ (2) 3/4"Øx18" HCAs
12"	3/4"x11"x2'-0" w/ (3) 3/4"Øx18" HCAs	3/4"x11"x1'-0" w/ (2) 3/4"Øx18" HCAs

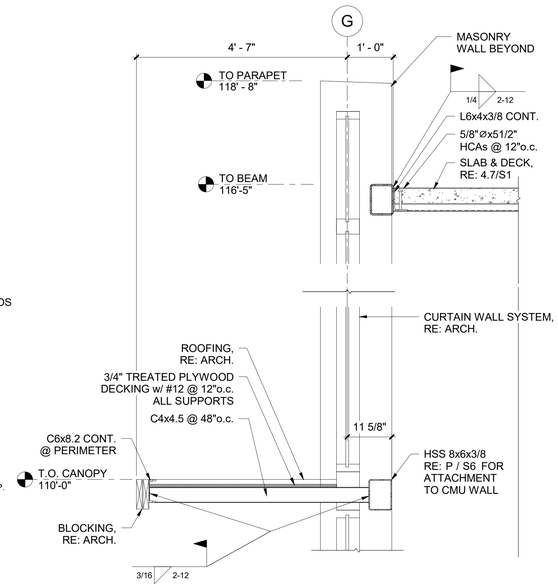


NOTE: PROVIDE INTERMEDIATE BEARING PLATE BETWEEN EACH JOIST EMBED

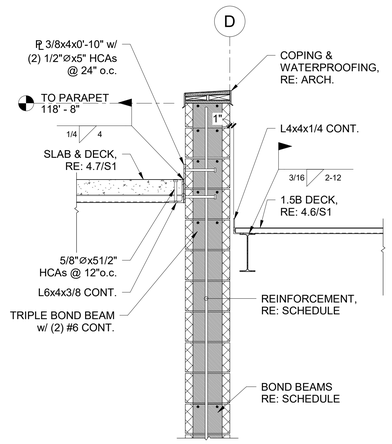
SECTION 4
SCALE: 3/4" = 1'-0"



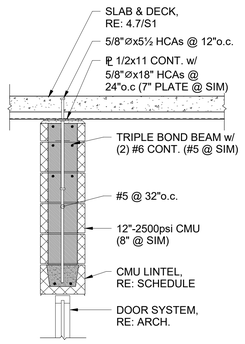
SECTION 5
SCALE: 3/4" = 1'-0"



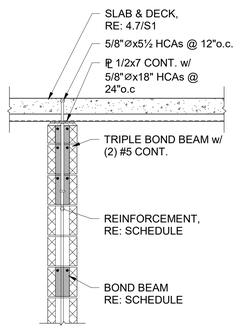
SECTION 6
SCALE: 3/4" = 1'-0"



SECTION 7
SCALE: 3/4" = 1'-0"



SECTION 8
SCALE: 3/4" = 1'-0"



SECTION 9
SCALE: 3/4" = 1'-0"

BLEDSOE___
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735 ROBINHOOD STREET
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BRIAN K. SMITH
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PROFESSIONAL ENGINEER
STATE OF LOUISIANA
1/14/2026

BK SMITH
ENGINEERING CO., INC.
1914 CITIZENS BANK DR.
BOSSIER CITY, LOUISIANA
318-741-0127

NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

FRAMING SECTIONS

BOSSIER SCHOOLS "Win the Day!"

BPSB PROJECT #26-02

job no: 2511

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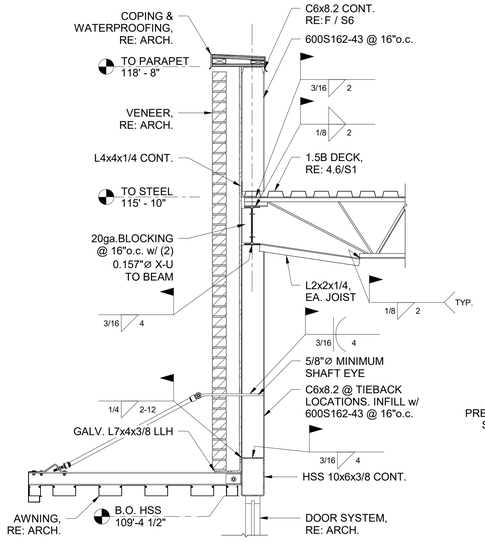
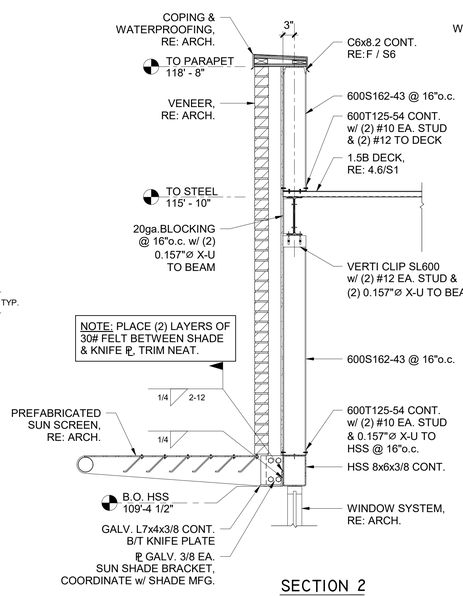
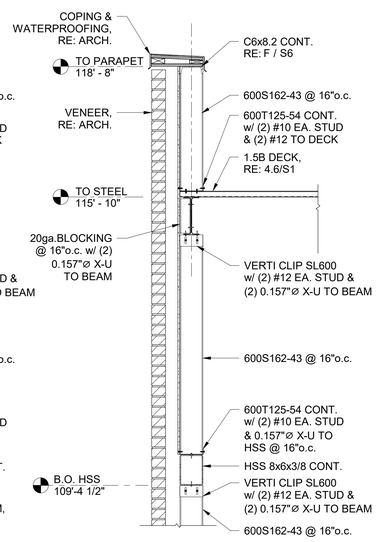


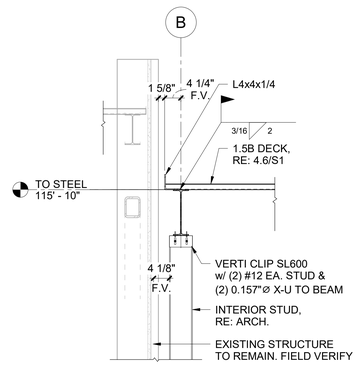
SECTION 1
SCALE: 3/4" = 1'-0"



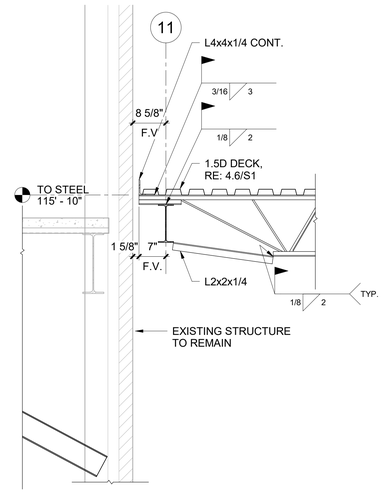
SECTION 2
SCALE: 3/4" = 1'-0"



SECTION 3
SCALE: 3/4" = 1'-0"

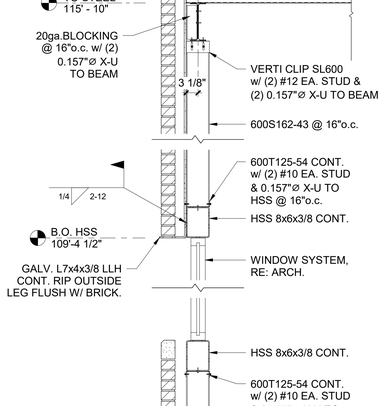


SECTION 4
SCALE: 3/4" = 1'-0"

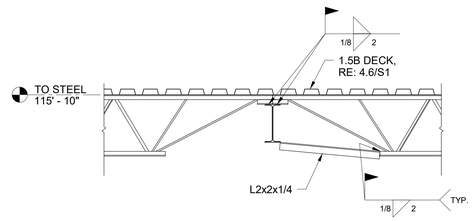


SECTION 5
SCALE: 3/4" = 1'-0"

SECTION 6
SCALE: 3/4" = 1'-0"



SECTION 7
SCALE: 3/4" = 1'-0"



SECTION 8
SCALE: 3/4" = 1'-0"

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FRAMING SECTIONS

BOSSIER SCHOOLS "Win the Day!"

BPSB PROJECT #26-02

job no: 2511

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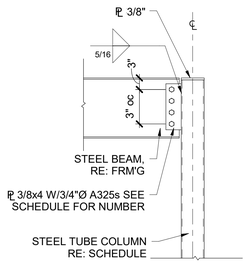
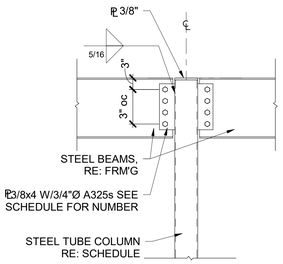


I BEAM SHEAR TAB

DETAIL A

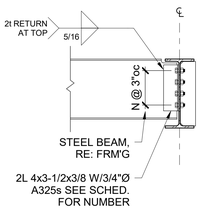
SCALE: 3/4" = 1'-0"



2 BEAM SHEAR TAB

DETAIL B

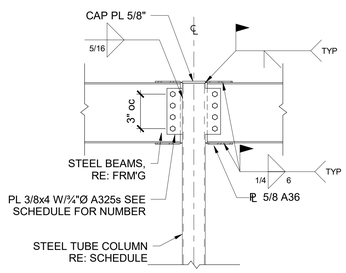
SCALE: 3/4" = 1'-0"



BEAM/BEAM I-DBL CLIP B/W

DETAIL C

SCALE: 3/4" = 1'-0"



W TO HSS MOMENT CONNECTION

DETAIL D

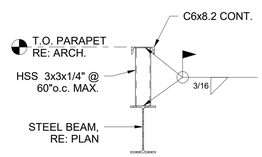
SCALE: 3/4" = 1'-0"

SIZE	N
C8	2
W8	2
W10	2
W12	3
W14	3
W16	4
W18	5
W21	6
W24	7
W27	8
W30	9

CONNECTION SCHEDULE

DETAIL E

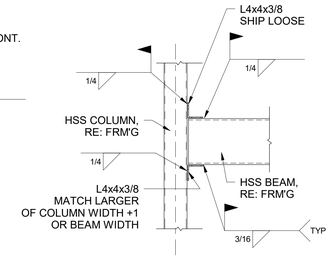
SCALE: 3/4" = 1'-0"



PARAPET SUPPORT

DETAIL F

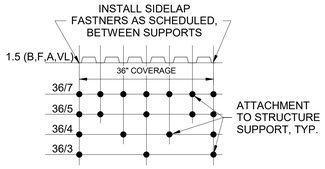
SCALE: 3/4" = 1'-0"



GIRT TO HSS CONNECTION DETAIL

DETAIL G

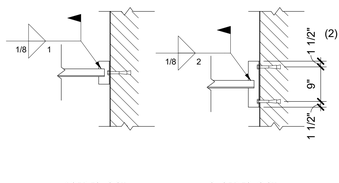
SCALE: 3/4" = 1'-0"



DECK CONNECTION DETAIL

DETAIL H

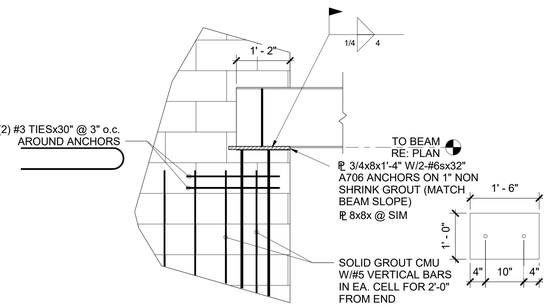
SCALE: 3/4" = 1'-0"



JOIST BRIDGING ATTACHMENT AT CMU

DETAIL J

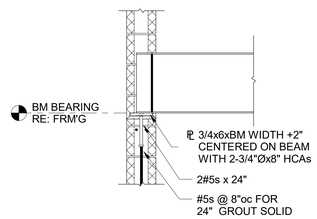
SCALE: 3/4" = 1'-0"



BEAM TO CMU PARALLEL

DETAIL K

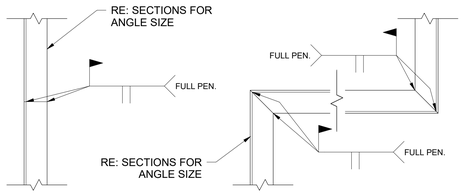
SCALE: 3/4" = 1'-0"



CMU WALL COLUMN TYPE A

DETAIL L

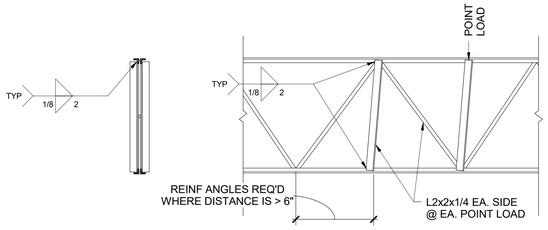
SCALE: 3/4" = 1'-0"



CONT. DECK ANGLE SPLICE

DETAIL M

SCALE: 3/4" = 1'-0"

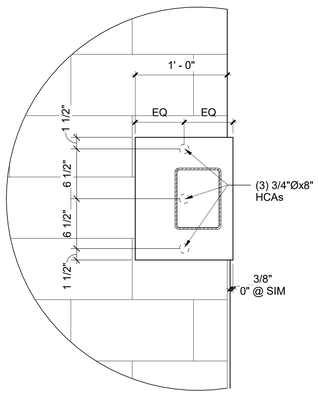


SECTION ELEVATION

JOIST REINFORCEMENT DETAIL

DETAIL N

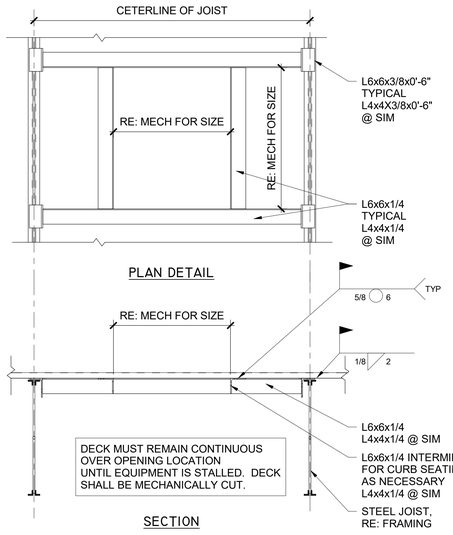
SCALE: 3/4" = 1'-0"



HSS TO END OF CMU

DETAIL P

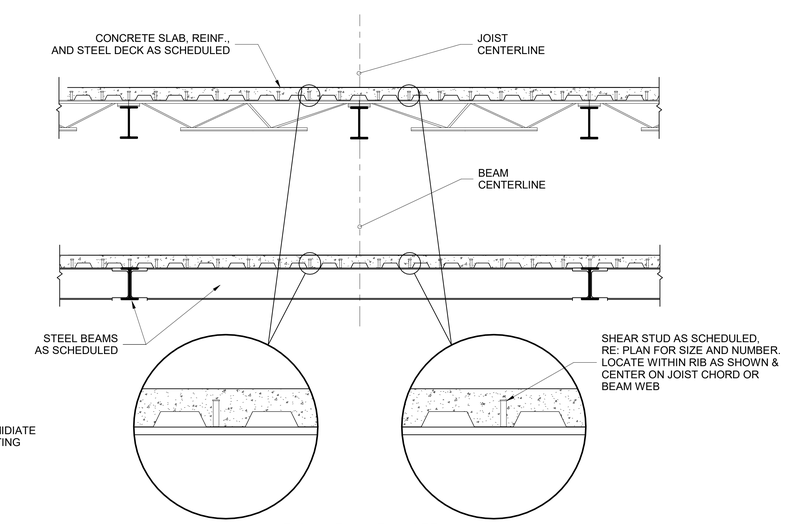
SCALE: 1 1/2" = 1'-0"



RTU FRAME

DETAIL Q

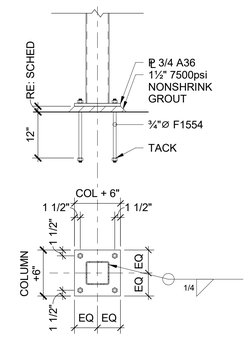
SCALE: 3/4" = 1'-0"



STUD INSTALLATION DETAIL

DETAIL R

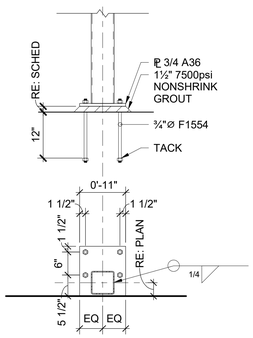
SCALE: 1/2" = 1'-0"



BASE PLATE TYPE 01

DETAIL S

SCALE: 3/4" = 1'-0"



BASE PLATE TYPE 02

DETAIL T

SCALE: 3/4" = 1'-0"

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1/14/2026

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318-741-0127

NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

FRAMING DETAILS

BOSSIER SCHOOLS "Win the Day!"

BPSB PROJECT #26-02

job no: 2511

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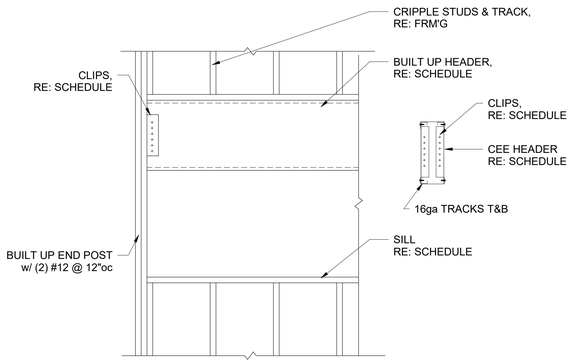
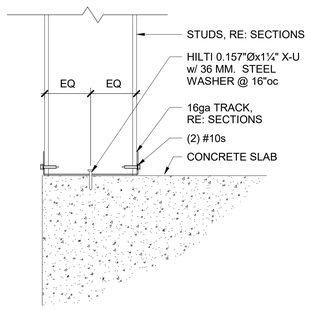


HEADER TERMINATION DETAIL

DETAIL A

SCALE: 3/4" = 1'-0"



STUD TO SLAB DETAIL

DETAIL B

SCALE: 3" = 1'-0"

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FRAMING DETAILS

BPSB PROJECT
#26-02

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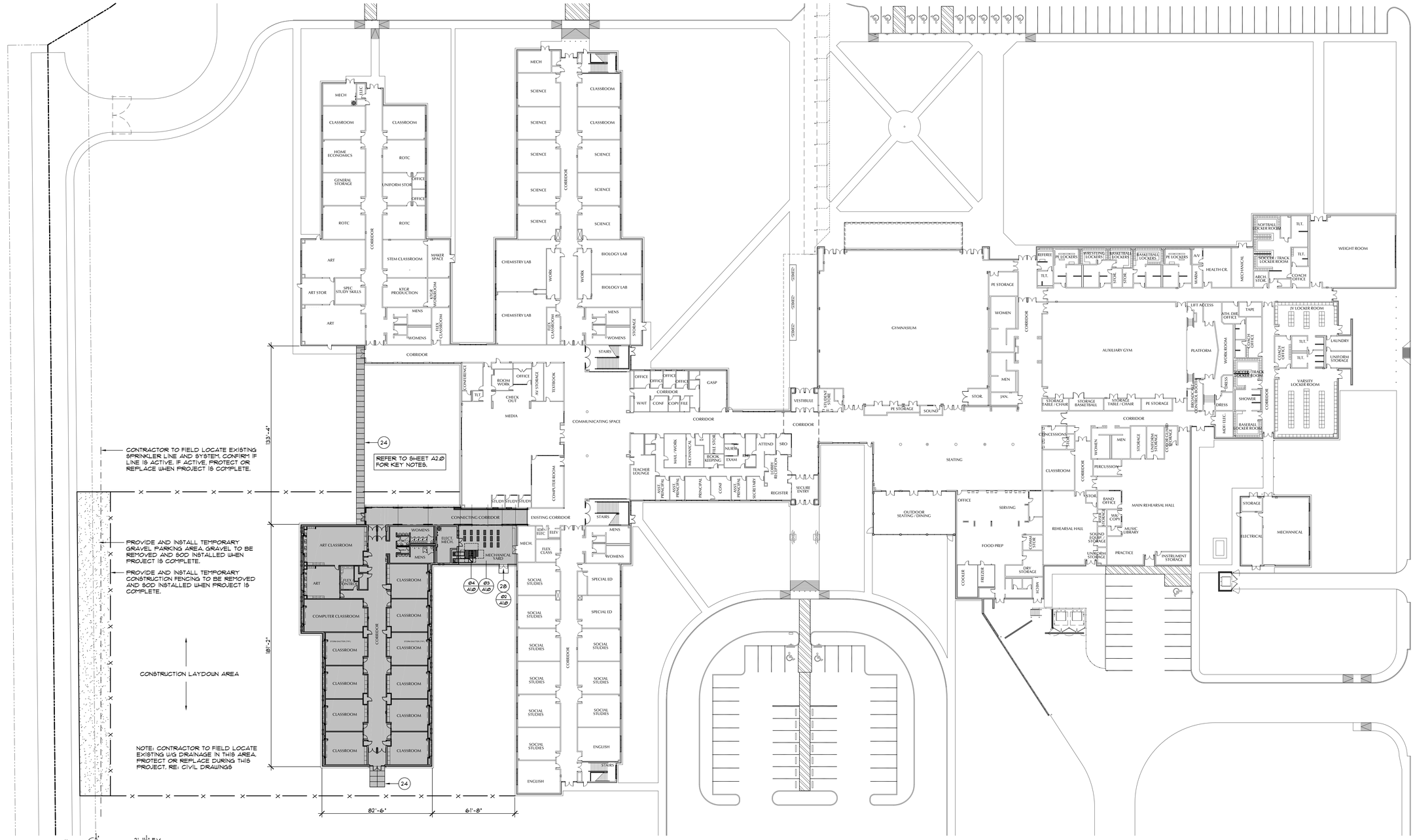
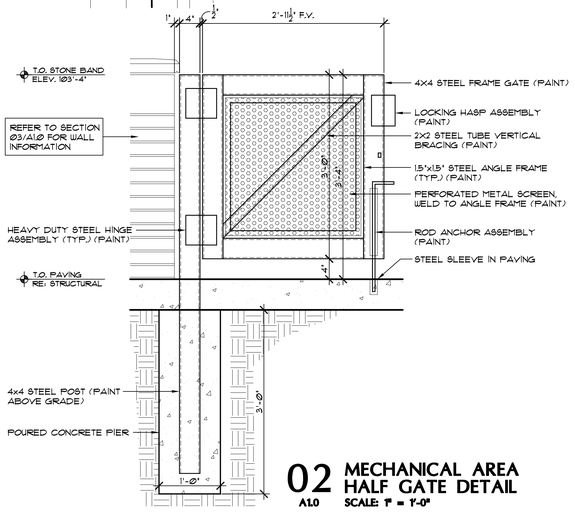
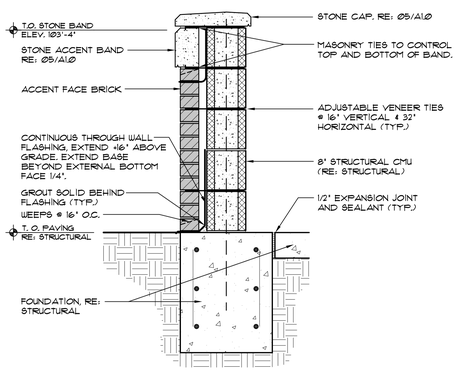


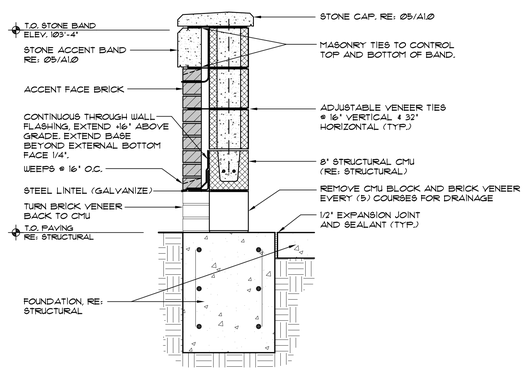
01 OVERALL SITE COMPOSITE FIRST FLOOR PLAN
A1.0 SCALE: 1" = 30'-0"



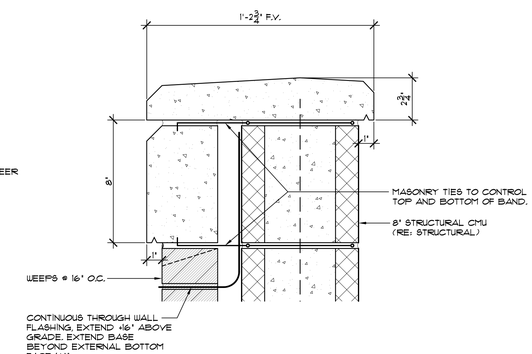
02 MECHANICAL AREA HALF GATE DETAIL
A1.0 SCALE: 1" = 1'-0"



03 RETAINING WALL ELEVATION / DETAIL
A1.0 SCALE: 1" = 1'-0"



04 RETAINING WALL ELEVATION / DETAIL
A1.0 SCALE: 1" = 1'-0"



05 RETAINING WALL BAND AND CAP DETAIL
A1.0 SCALE: 1 1/2" = 1'-0"

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RYAN T. BLEDSOE — No. 34884 — STATE OF LOUISIANA — REGISTERED ARCHITECT — 01-14-26

NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

OVERALL SITE COMPOSITE FIRST FLOOR PLAN

BOSSIER SCHOOLS "Win the Day!"

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A1.0

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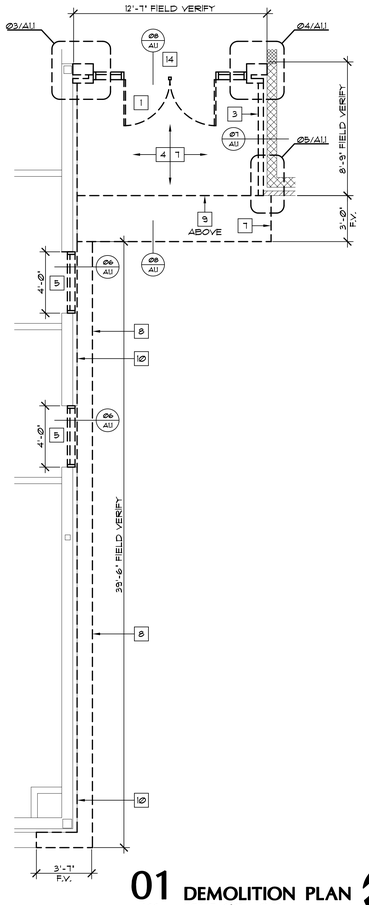
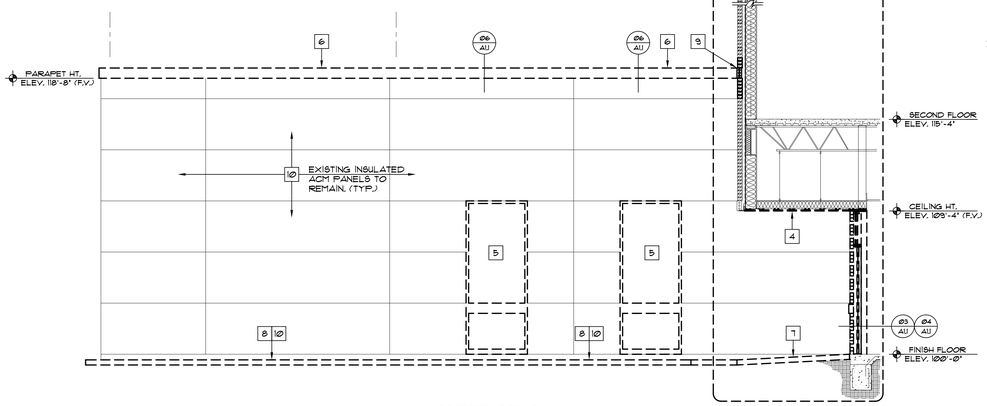
DEMOLITION KEY NOTES:

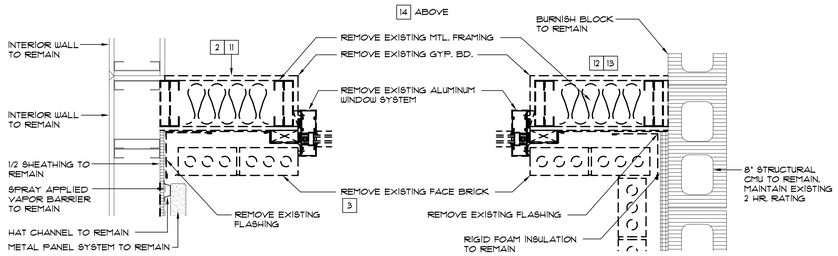
1. REMOVE EXISTING DOORS AND WINDOW FRAME ASSEMBLY AS SHOWN IN DASH. RE: Ø3,Ø4/A1.1
2. REMOVE EXISTING BRICK VENEER AND METAL FRAME WALL ASSEMBLY AS SHOWN IN DASH. RE: Ø3/A1.1
3. REMOVE EXISTING BRICK VENEER AND TIES. EXISTING SHEATHING TO REMAIN. RE: Ø4/A1.1
4. REMOVE EXISTING ACM SOFFIT AND HAT CHANNEL FRAMING. PREP FOR NEW CEILING.
5. REMOVE EXISTING WINDOW ASSEMBLY. PREP FOR INFILL.
6. REMOVE PORTION OF THE EXISTING PARAPET CAP. PREP FOR NEW.
7. SAW CUT EXISTING CONCRETE SIDEWALK AT EXISTING JOINT. EXISTING SIDEWALK TO MECHANICAL ROOM TO REMAIN.
8. REMOVE EXISTING CONCRETE MOW STRIP. SAW CUT AT EXISTING JOINT.
9. REMOVE EXISTING BRICK VENEER FOR NEW ROOF SYSTEM TIE-IN. FIELD SUPPORT EXISTING BRICK VENEER PRIOR TO REMOVAL.
10. REMOVE EXISTING FLASHING UNDER INSULATED ACM PANELS AS REQUIRED FOR NEW FOUNDATION. EXISTING ACM PANELS TO REMAIN.
11. REMOVE EXISTING LIGHT SWITCH. PREP FOR RELOCATION. RE: ELECTRICAL
12. REMOVE EXISTING "EXIT" WALL SIGNAGE.
13. REMOVE FOR RELOCATION EXISTING FIRE PULL AND STROBE. RE: ELECTRICAL
14. EXISTING CEILING MOUNTED EXIT LIGHT TO REMAIN.



01 DEMOLITION PLAN
A1.1 SCALE: 1/4" = 1'-0"

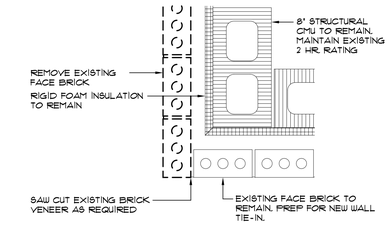


02 WEST WALL DEMOLITION ELEVATION
A1.1 SCALE: 1/4" = 1'-0"

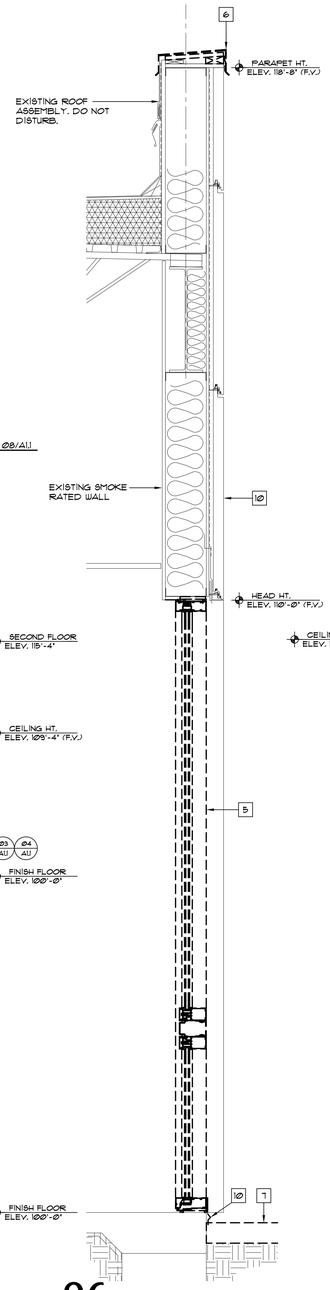


03 DEMOLITION PLAN JAMB / CORNER DETAIL
A1.1 SCALE: 1 1/2" = 1'-0"

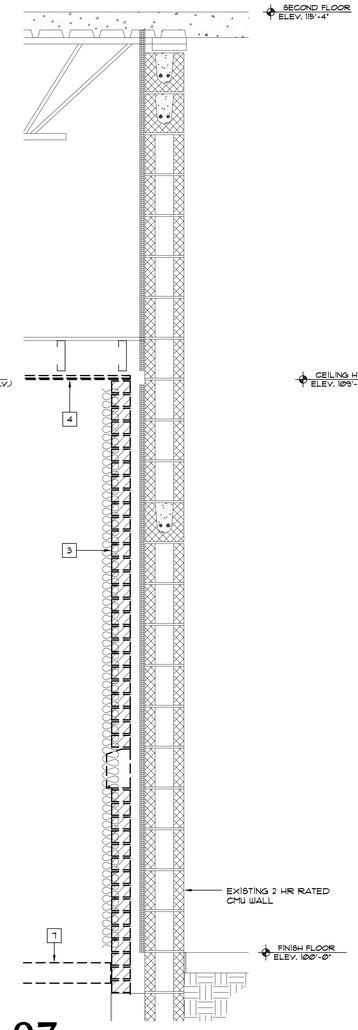
04 DEMOLITION PLAN JAMB / CORNER DETAIL
A1.1 SCALE: 1 1/2" = 1'-0"



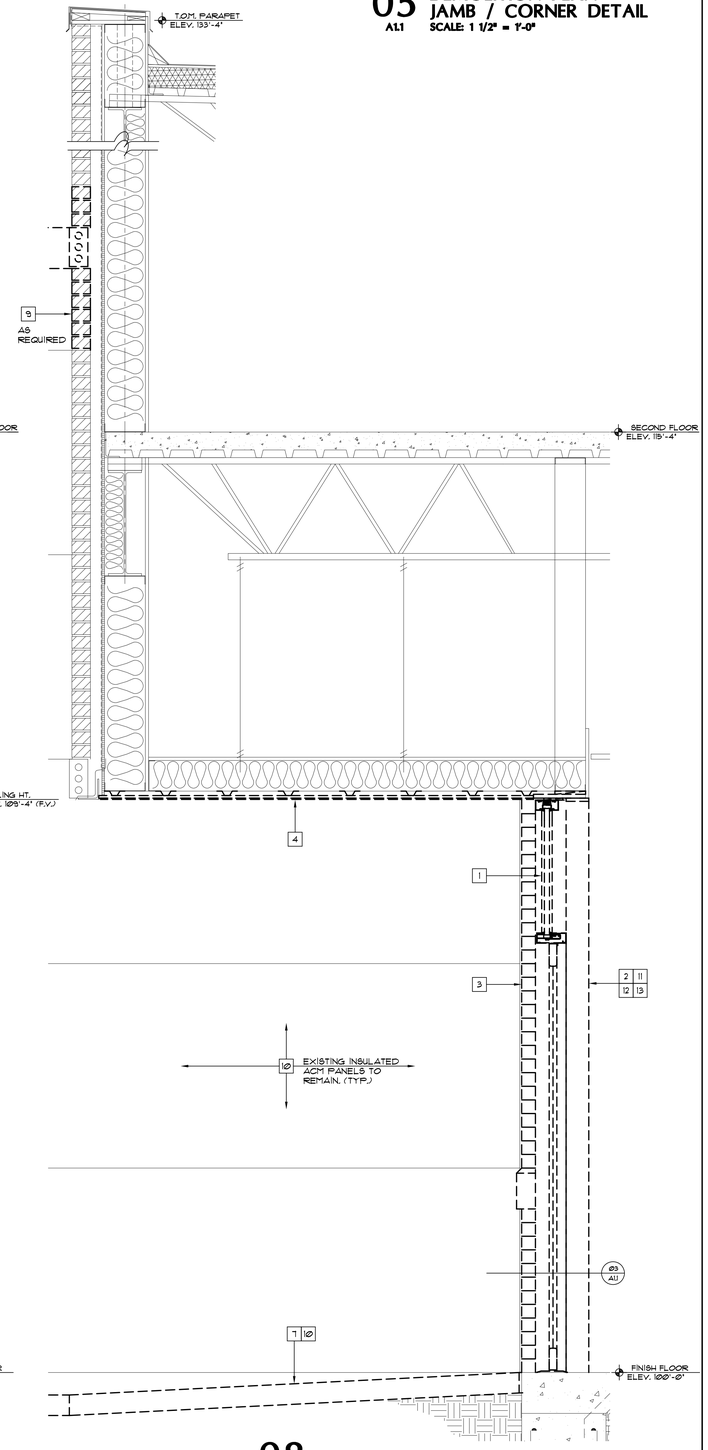
05 DEMOLITION PLAN JAMB / CORNER DETAIL
A1.1 SCALE: 1 1/2" = 1'-0"



06 DEMOLITION SECTION
A1.1 SCALE: 1" = 1'-0"



07 DEMOLITION SECTION
A1.1 SCALE: 1" = 1'-0"



08 DEMOLITION SECTION
A1.1 SCALE: 1" = 1'-0"

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NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

DEMOLITION PLANS, ELEVATION AND SECTIONS

BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

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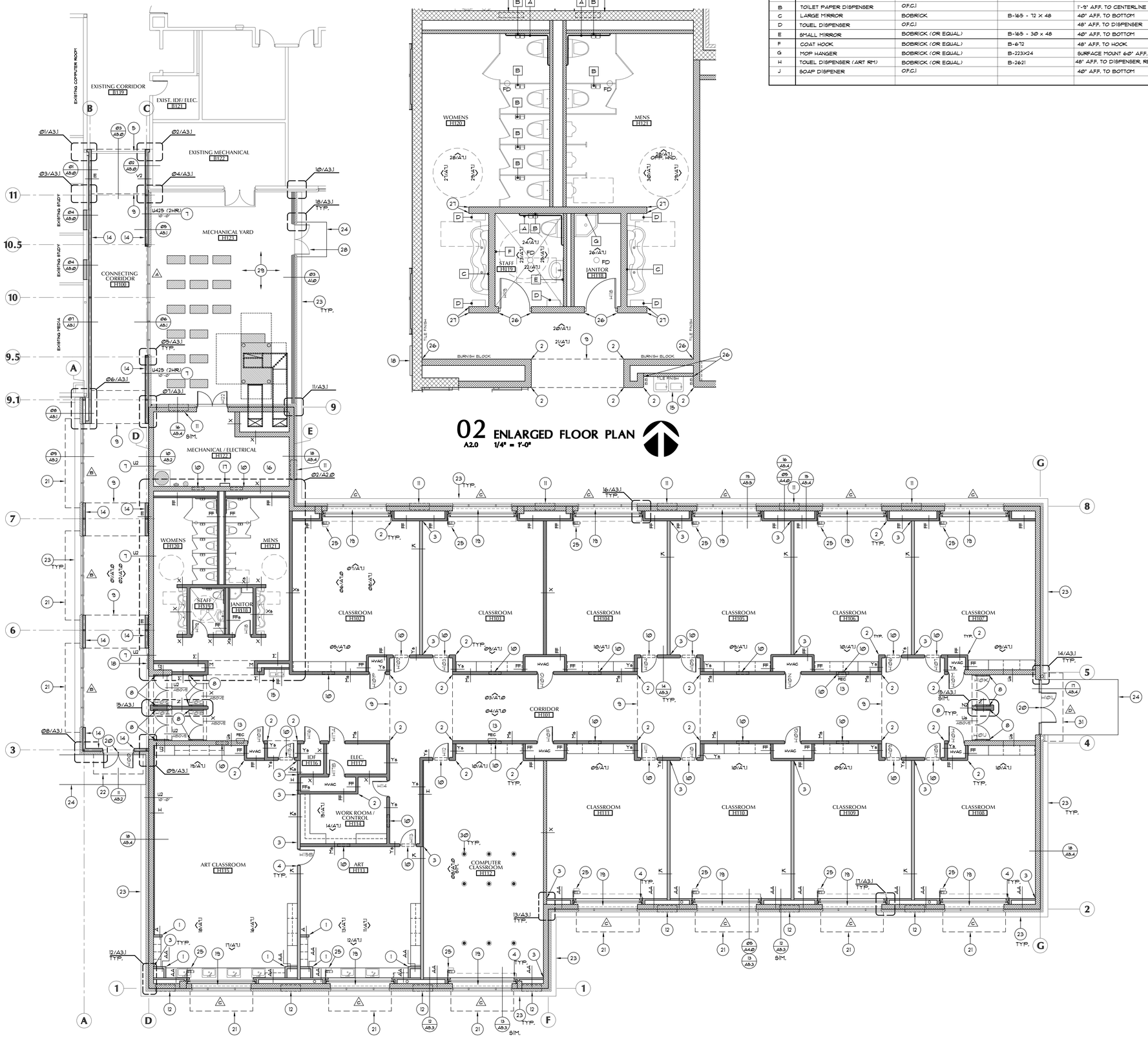
TOILET ACCESSORY SCHEDULE

TAG	ITEM AND SIZE	MANUFACTURER	MODEL	MOUNTING HEIGHT
A	CONT. GRAB BAR	BOBRICK	B-68137 x 36 x 54	34" AFF. TO CENTERLINE
B	TOILET PAPER DISPENSER	OFCI		1'-8" AFF. TO CENTERLINE
C	LARGE MIRROR	BOBRICK	B-165 - 72 X 48	40" AFF. TO BOTTOM
D	TOWEL DISPENSER	OFCI		48" AFF. TO DISPENSER
E	SMALL MIRROR	BOBRICK (OR EQUAL)	B-165 - 30 x 48	40" AFF. TO BOTTOM
F	COAT HOOK	BOBRICK (OR EQUAL)	B-672	48" AFF. TO HOOK
G	MOP HANGER	BOBRICK (OR EQUAL)	B-223X24	SURFACE MOUNT 60" AFF.
H	TOWEL DISPENSER (ART RM)	BOBRICK (OR EQUAL)	B-2621	48" AFF. TO DISPENSER, RE:12, 17/A7.1
J	SOAP DISPENER	OFCI		40" AFF. TO BOTTOM

KEY NOTES:

1. RECESSED CORNER GUARD, FLOOR TO CEILING (OR 12'-0" AFF.) RE: Ø3/A3.Ø
2. CMU BULLNOSE EDGE FLOOR TO CEILING
3. TRANSITION JOINT BETWEEN CMU AND GYP. BD. WALL JUNCTION. RE: 11/A3.Ø (TYP.)
4. GYP. BD. CONTROL JOINT ABOVE EACH DOOR/WINDOW CORNER IN GYP. BD. WALL. RE: Ø1, Ø2/A3.Ø
5. WALL AND CEILING EXPANSION JOINT W/COVER. RE: Ø6/A2.2, Ø4/A3.Ø
6. NOT USED
7. PROVIDE STENCILED LABEL AT 6' O.C. ABOVE CEILINGS. RED LETTERING SHALL BE A MINIMUM OF 2" IN HEIGHT AND SHALL READ "2 HR. RATED WALL - DO NOT PENETRATE". TYPICAL ALL RATED PARTITIONS.
8. AUTOMATIC DOOR HOLD OPEN DEVICE TIED TO FIRE ALARM AND TORNADO SYSTEM. RE: ELECTRICAL AND HARDWARE SCHEDULE. RE: 15/A3.1
9. FURRDOWN ABOVE. RE: REFLECTED CEILING PLAN
10. 24'X30' AUTOMATIC OVERHEAD FIRE/SMOKE SHUTTER. RE: 14/A5.3
11. EXTERIOR 48"X66" (HIGH SIDE) WIND-DRIVEN RAIN FEMA LOUVER
12. EXTERIOR 48"X48" (LOW SIDE) WIND-DRIVEN RAIN FEMA LOUVER
13. PROVIDE AND INSTALL SEMI RECESSED FIRE EXTINGUISHER CABINET
14. DECORATIVE INTERIOR WALL PANEL SYSTEM. RE: INTERIOR ELEVATIONS
15. HIGH / LOW ELECTRIC WATER COOLER W/ BOTTLE FILLER. RE: PLUMBING
16. ELECTRICAL PANEL LOCATION. RE: ELECTRICAL
17. ROOF ACCESS HURRICANE HATCH & LADDER. RE: Ø1/A2.3
18. PROVIDE AND INSTALL ENCLOSED 36"X36" BULLETIN BOARD DISPLAY CASE, LOCKABLE (9)
19. 2" HORIZONTAL WINDOW BLINDS (TYP.) ALL WINDOWS
20. REMOVABLE MULLION. RE: HARDWARE SCHEDULE
21. PREFINISHED ALUMINUM LOUVERED SUNSHADE SYSTEM
22. PREFINISHED ALUMINUM CANOPY SYSTEM
23. PROVIDE 1'-Ø" CONCRETE MAINTENANCE BARRIER "MOW STRIP" AROUND PERIMETER OF BUILDING W/ CONTROL JOINTS EVERY 4'-Ø" AND EXPANSION JOINTS EVERY 24'-Ø". SLOPE @ 1:48 CROSS SLOPE AWAY FROM BUILDING.
24. CONCRETE SIDEWALK. RE: Ø1/A1Ø AND CIVIL
25. TORNADO AND HURRICANE SHELTER SYSTEM COILING DOOR
26. SCHLUTER EDGE TRIM (FLOOR TO CEILING)
27. SCHLUTER BULLNOSE EDGE TRIM (FLOOR TO CEILING)
28. STEEL GATE ASSEMBLY PAINT. RE: Ø2/A1Ø
29. PAVING. SLOPE TO DRAIN @ PONY WALL. RE: CIVIL
30. FLOOR OUTLETS. RE: ELECTRICAL
31. ACM PANEL CANOPY SYSTEM

02 ENLARGED FLOOR PLAN
A2.0 1/4" = 1'-0"



01 FLOOR PLAN
A2.0 SCALE: 1/8" = 1'-0"

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BENTON, LOUISIANA 71006

FLOOR PLANS

BPSB PROJECT #26-02

JOB NO. 2511

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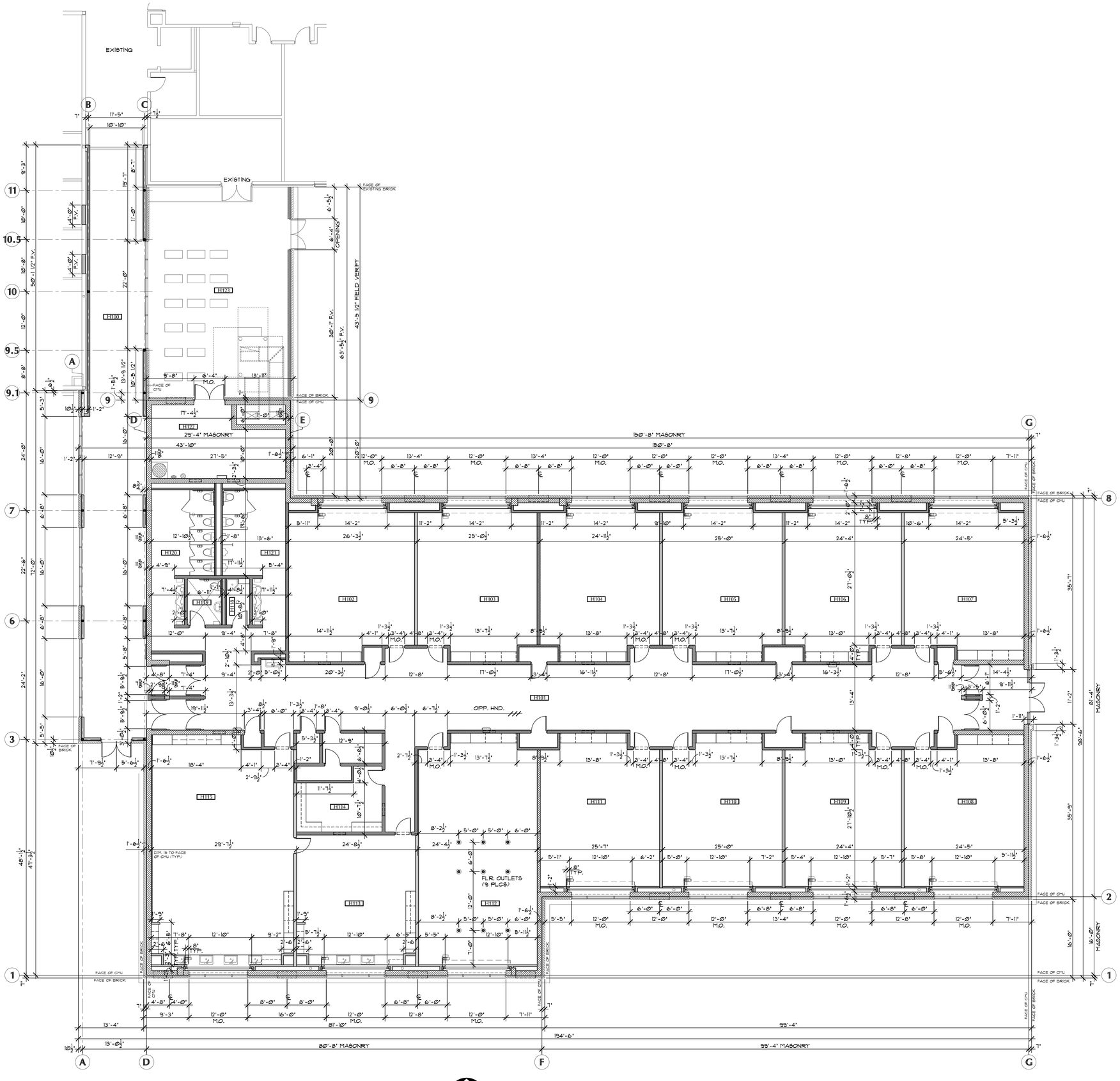

01 **DIMENSION FLOOR PLAN**
A2.1 SCALE: 1/8" = 1'-0"

BLEDSOE ARCHITECTS

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BRYAN T. BLEDSOE
No. 31984
STATE OF LOUISIANA
REGISTERED ARCHITECT
01-14-26

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DIMENSION FLOOR PLAN

BOSSIER SCHOOLS "Win the Day!"

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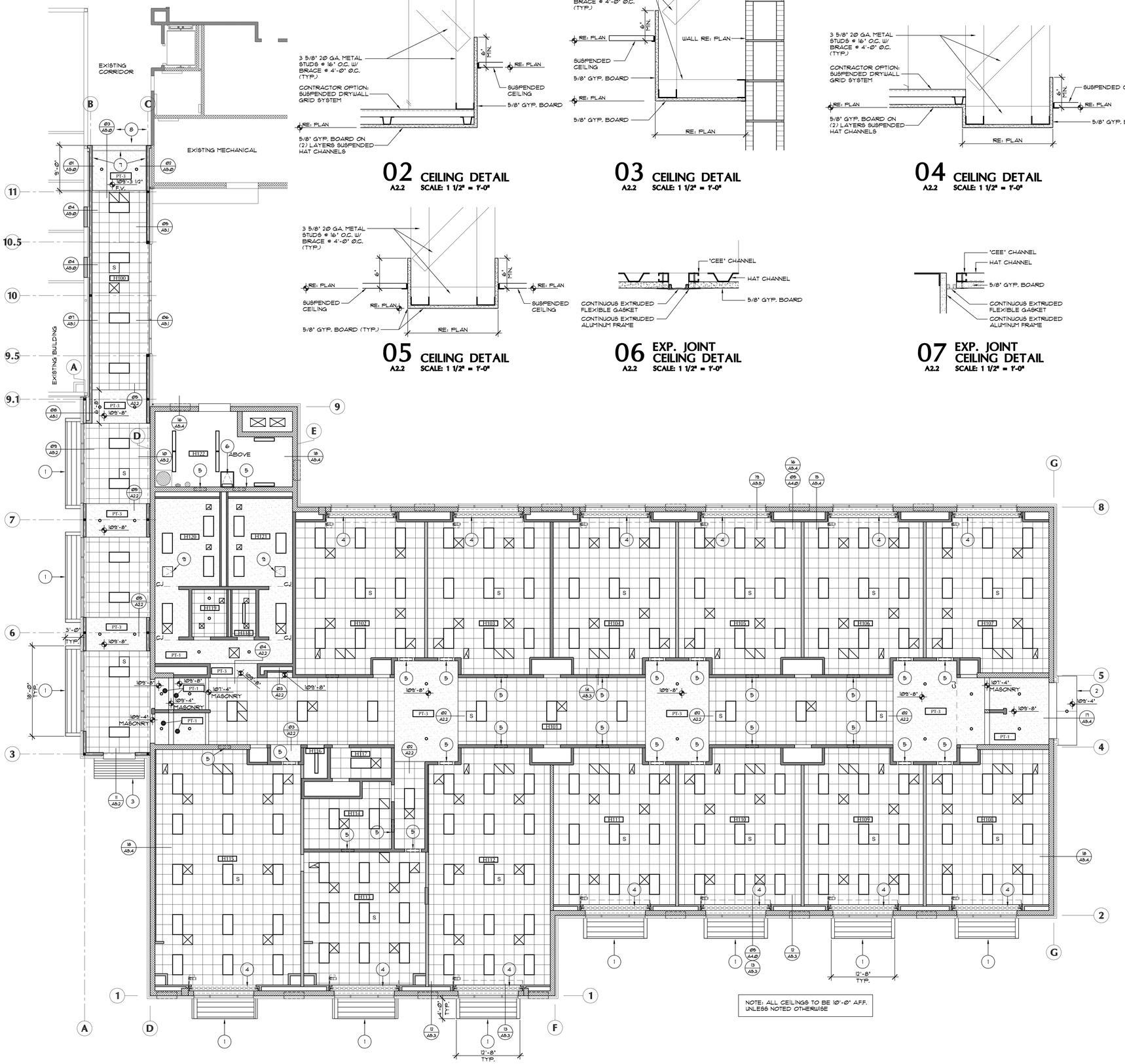
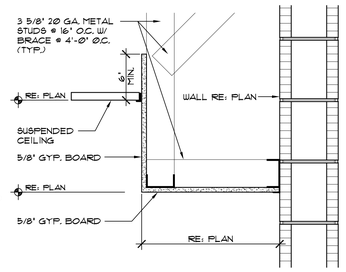
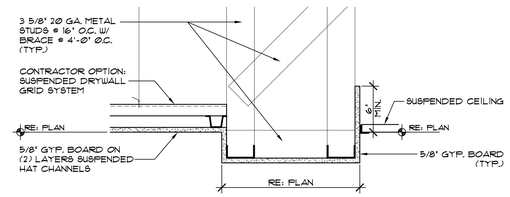


01 REFLECTED CEILING PLAN
A2.2 SCALE: 1/8" = 1'-0"

02 CEILING DETAIL
A2.2 SCALE: 1 1/2" = 1'-0"



03 CEILING DETAIL
A2.2 SCALE: 1 1/2" = 1'-0"



04 CEILING DETAIL
A2.2 SCALE: 1 1/2" = 1'-0"

05 CEILING DETAIL
A2.2 SCALE: 1 1/2" = 1'-0"

06 EXP. JOINT CEILING DETAIL
A2.2 SCALE: 1 1/2" = 1'-0"

07 EXP. JOINT CEILING DETAIL
A2.2 SCALE: 1 1/2" = 1'-0"

REFLECTED CEILING SYMBOLS

- 2' X 4' RECESSED LED TROFFER, RE: ELECTRICAL
- RECESSED LED CAN LIGHT, RE: ELECTRICAL
- 1' X 4' RECESSED LED FIXTURE, RE: ELECTRICAL
- 2' X 2' SUSPENDED LAY-IN ACOUSTICAL CEILING TYPICAL UNLESS NOTED OTHERWISE
- RETURN AIR OR EXHAUST GRILLE (REFER TO THE MECHANICAL DRAWINGS FOR THE SIZES)
- ACCESS PANEL. COORDINATE FINAL LOCATION WITH MEP. RE: MEP DRAWINGS
- SUPPLY AIR DIFFUSER OR REGISTER (REFER TO THE MECHANICAL DRAWINGS FOR SIZES)
- S SPEAKER, RE: ELECTRICAL
- 10'-0" BULKHEAD / CEILING HEIGHT
- GYPSUM BOARD BULKHEAD / CEILING
- C.J. GYPSUM BOARD CONTROL JOINT

REFLECTED CEILING NOTES:

1. PREFINISHED ALUMINUM LOUVERED SUNSHADE SYSTEM
2. ACM PANEL CANOPY SYSTEM
3. SUSPENDED ALUMINUM CANOPY SYSTEM
4. TORNADO AND HURRICANE COILING DOOR SYSTEM ABOVE CEILING. RE: NOTE 25/A2.0
5. TORNADO VENT IN WALL ABOVE CEILING. RE: NOTE 10/ A2.0
6. TORNADO RESISTANT ROOF HATCH AND LADDER.
7. CEILING EXPANSION JOINT. RE: Ø6, Ø1/A2.2
8. MODIFY EXISTING CEILING GRID & TILE AS REQUIRED FOR NEW TIE-IN
9. 24"X24" CEILING ACCESS HATCH (PAINT TO MATCH CEILING)

BLEDSOE ARCHITECTS
735 ROBINHOOD STREET
SHREVEPORT, LA 71106
PHONE: (318) 219-2295
FAX: (318) 219-2296

NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

REFLECTED CEILING PLAN AND DETAILS

BPSB PROJECT #26-02

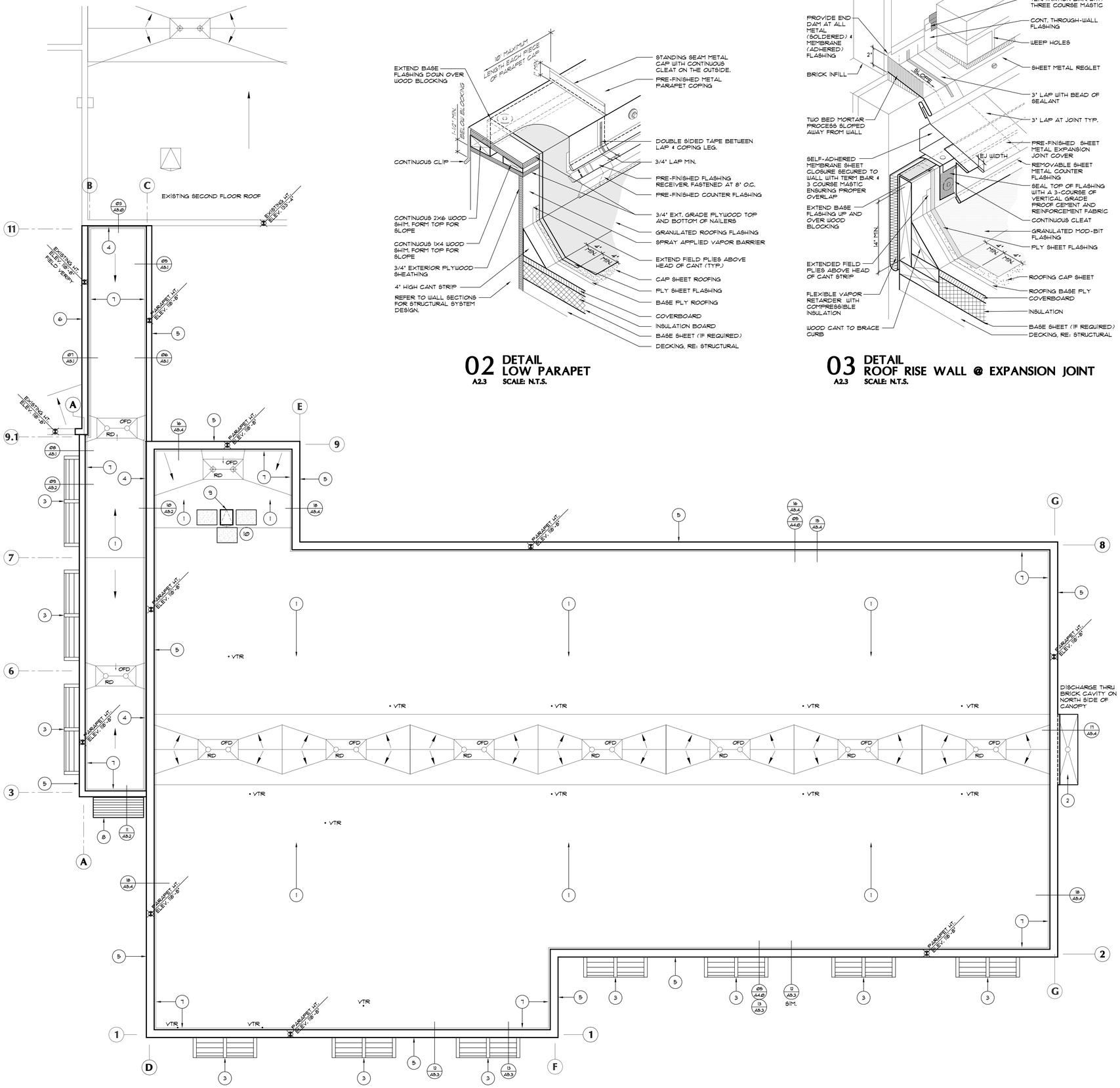
JOB NO. 2511

REVISIONS:

14 JAN 2026

SHEET

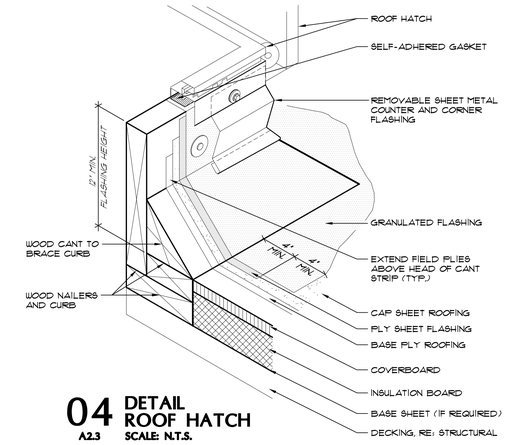
A2.2



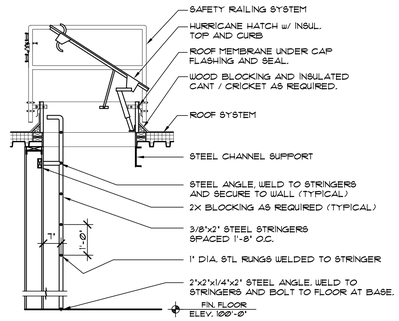
01 ROOF PLAN
A2.3 SCALE: 1/8" = 1'-0"

02 DETAIL LOW PARAPET
A2.3 SCALE: N.T.S.

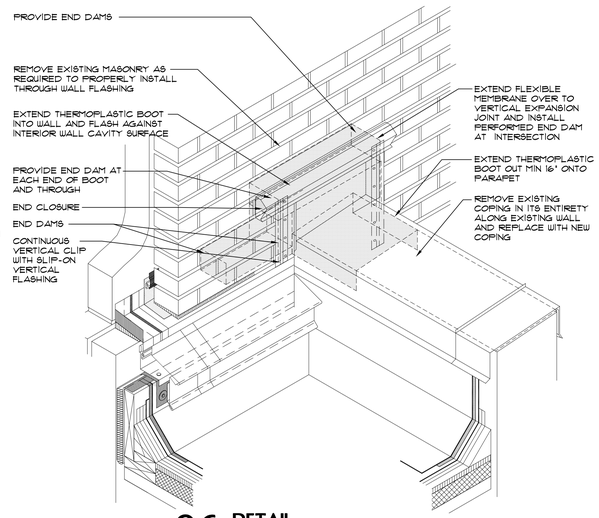
03 DETAIL ROOF RISE WALL @ EXPANSION JOINT
A2.3 SCALE: N.T.S.



04 DETAIL ROOF HATCH
A2.3 SCALE: N.T.S.



05 ROOF ACCESS LADDER AND HURRICANE HATCH DETAIL
A2.3 NTS



06 DETAIL PARAPET TO RISE WALL
A2.3 SCALE: N.T.S.

ROOF PLAN KEY NOTES:

1. MULTI-PLY ROOF SYSTEM MEMBRANE ON COVER BOARD ON R-30 INSULATION ON STRUCTURAL FRAMING
2. MULTI-PLY ROOF SYSTEM MEMBRANE ON COVER BOARD ON TAPER INSULATION ON STRUCTURAL FRAMING "CANOPY SYSTEM" W/ THRU WALL INTERNAL DRAIN, LAMB TONGUE DISCHARGE AND ACM PANEL SOFFIT
3. PROVIDE AND INSTALL MANUFACTURED ALUMINUM LOUVERED SUNSHADE SYSTEM
4. INSTALL ROOF SYSTEM EXPANSION JOINT, RE: SECTIONS
5. PROVIDE AND INSTALL PREFINISHED METAL PARAPET CAP
6. REMOVE EXISTING PARAPET CAP AND INSTALL NEW PREFINISHED METAL PARAPET CAP OVER EXISTING WALL AND NEW.
7. PROVIDE AND INSTALL CONTINUOUS CANT
8. PROVIDE AND INSTALL SUSPENDED ALUMINUM CANOPY SYSTEM
9. PROVIDE AND INSTALL 36"x36" ROOF HURRICANE HATCH W/ LADDER, AND SAFETY RAILING SYSTEM. RE: 05/A2.3
10. PROVIDE AND INSTALL ROOF WALKWAY PAD

GENERAL NOTES:

1. RD = ROOF DRAIN, RE: PLUMBING FOR SIZE
2. OFD = ROOF OVER FLOW DRAIN, RE: PLUMBING
3. VTR = 2" VENT TO ROOF, RE: PLUMBING

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ROOF PLAN AND DETAILS

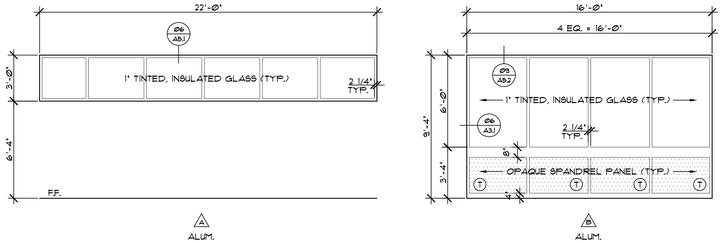
BPSB PROJECT #26-02

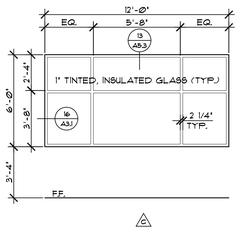
JOB NO. 2511

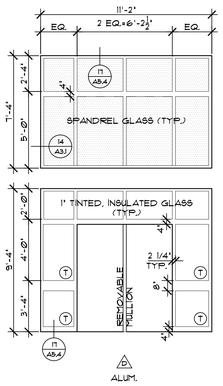
REVISIONS:

14 JAN 2026

SHEET
A2.3







ROOM FINISH SCHEDULE BUILDING "A"

NO.	ROOM NAME	FLOOR	BASE	WALL	CEILING	REMARKS
H100	CONNECTING CORRIDOR	VCT	RCB / BCMU	BCMU / PT	ACT-1 / PT	RE: ID23, NO BASE ON BCMU
H101	CORRIDOR	VCT	-	BCMU	ACT-1 / PT	RE: ID23, NO BASE ON BCMU
H102	CLASSROOM	VCT	RCB	PT	ACT-1	
H103	CLASSROOM	VCT	RCB	PT	ACT-1	
H104	CLASSROOM	VCT	RCB	PT	ACT-1	
H105	CLASSROOM	VCT	RCB	PT	ACT-1	
H106	CLASSROOM	VCT	RCB	PT	ACT-1	
H107	CLASSROOM	VCT	RCB	PT	ACT-1	
H108	CLASSROOM	VCT	RCB	PT	ACT-1	
H109	CLASSROOM	VCT	RCB	PT	ACT-1	
H110	CLASSROOM	VCT	RCB	PT	ACT-1	
H111	CLASSROOM	VCT	RCB	PT	ACT-1	
H112	COMPUTER CLASSROOM	VCT	RCB	PT	ACT-1	
H113	ART	VCT	RCB	PT	ACT-1	
H114	WORK ROOM/CONTROL	VCT	RCB	PT	ACT-1	
H115	ART CLASSROOM	VCT	RCB	PT	ACT-1	
H116	IDF	VCT	RCB	PT	ACT-1	
H117	ELEC.	VCT	RCB	PT	ACT-1	
H118	JANITOR	RFS	RFS	PT	ACT-2	
H119	STAFF	RFS	RFS	CT / PT-E	ACT-2	
H120	WOMENS	RFS	RFS	CT	PT-E	
H121	MENS	RFS	RFS	CT	PT-E	
H122	MECHANICAL / ELECTRICAL	SC	-	-	-	
H123	MECHANICAL YARD	-	-	-	-	

FINISH LEGEND:

CT: CERAMIC TILE
RCB: RESILIENT COVE BASE
RFS: RESINOUS FLOOR SYSTEM
SC: SEALED CONCRETE
BRK: BRICK

BCMU: BURNISHED BLOCK CMU
PL: PLASTIC LAMINATE

PT-1: PAINT COLOR 1
PT-2: PAINT COLOR 2
PT-3: PAINT COLOR 3
PT-E: PAINT, EPOXY
PT-EXP: PAINT EXPOSED STRUCTURE ETC.

MBW: MARKER BOARD WALL SYSTEM
TBW: TACK BOARD WALL SYSTEM

ACT-1: SUSPENDED CEILING, 2X2 SQUARE EDGE
ACT-2: SUSPENDED CEILING, 2X2 MYLAR FACE
GYP: GYPSUM BOARD CEILING

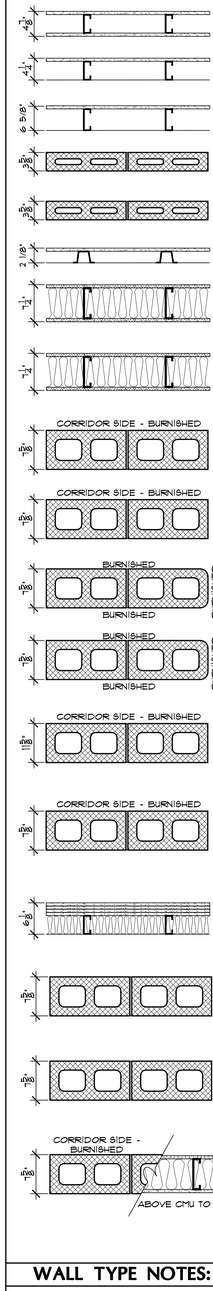
OPENING SCHEDULE BUILDING "A" FIRST FLOOR

NO.	OPENING SIZE	HARD. GROUP	LABEL	DOOR MTL.	DOOR ELEV.	FRAME MTL.	FRAME ELEV.	DETAILS	REMARKS
H100	PR 3-Ø x 7'-Ø x 1 3/4	HW-1	-	AL/GL	C	ALUM	3	Ø8/A3.1	REMOVABLE MULLION
H101A	PR 3-Ø x 7'-Ø x 1 3/4	HW-3	90 MIN	HM	A	HM	HM-2	15/A3.1	4" HEAD UL CLASSIFIED TO ICC500-2014 HOLD OPEN
H101B	PR 3-Ø x 7'-Ø x 1 3/4	HW-4	-	SCW	B	HM	HM-2	15/A3.1	4" HEAD, HOLD OPEN
H101C	PR 3-Ø x 7'-Ø x 1 3/4	HW-3	90 MIN	HM	A	HM	HM-2	15/A3.1	4" HEAD UL CLASSIFIED TO ICC500-2014 HOLD OPEN
H101D	PR 3-Ø x 7'-Ø x 1 3/4	HW-4	-	SCW	B	HM	HM-2	15/A3.1	4" HEAD, HOLD OPEN
H101E	3-Ø x 7'-Ø x 1 3/4	HW-11	-	SCW	A	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H101F	3-Ø x 7'-Ø x 1 3/4	HW-11	-	SCW	A	HM	HM-1	Ø6, Ø7/A3.Ø	4" HEAD
H101G	3-Ø x 7'-Ø x 1 3/4	HW-11	-	SCW	A	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H101H	3-Ø x 7'-Ø x 1 3/4	HW-11	-	SCW	A	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H101J	PR 3-Ø x 7'-Ø x 1 3/4	HW-3	-	HM	A	HM	HM-2	15/A3.1	4" HEAD UL CLASSIFIED TO ICC500-2014 HOLD OPEN
H101K	PR 3-Ø x 7'-Ø x 1 3/4	HW-3	-	HM	A	HM	HM-2	15/A3.1	4" HEAD UL CLASSIFIED TO ICC500-2014 HOLD OPEN
H101L	PR 3-Ø x 7'-Ø x 1 3/4	HW-1	-	AL/GL	C	ALUM	D	14/A3.1	REMOVABLE MULLION
H101M	3-Ø x 7'-Ø x 1 3/4	HW-11	-	SCW	A	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H101N	3-Ø x 7'-Ø x 1 3/4	HW-11	-	SCW	A	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H101O	3-Ø x 7'-Ø x 1 3/4	HW-11	-	SCW	A	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H101P	3-Ø x 7'-Ø x 1 3/4	HW-11	-	SCW	A	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H102	3-Ø x 7'-Ø x 1 3/4	HW-5	-	SCW	B	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H103	3-Ø x 7'-Ø x 1 3/4	HW-5	-	SCW	B	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H104	3-Ø x 7'-Ø x 1 3/4	HW-5	-	SCW	B	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H105	3-Ø x 7'-Ø x 1 3/4	HW-5	-	SCW	B	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H106	3-Ø x 7'-Ø x 1 3/4	HW-5	-	SCW	B	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H107	3-Ø x 7'-Ø x 1 3/4	HW-5	-	SCW	B	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H108	3-Ø x 7'-Ø x 1 3/4	HW-5	-	SCW	B	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H109	3-Ø x 7'-Ø x 1 3/4	HW-5	-	SCW	B	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H110	3-Ø x 7'-Ø x 1 3/4	HW-5	-	SCW	B	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H111	3-Ø x 7'-Ø x 1 3/4	HW-5	-	SCW	B	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H112	3-Ø x 7'-Ø x 1 3/4	HW-5	-	SCW	B	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H113	3-Ø x 7'-Ø x 1 3/4	HW-5	-	SCW	B	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H114	3-Ø x 7'-Ø x 1 3/4	HW-5	-	SCW	B	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H115A	3-Ø x 7'-Ø x 1 3/4	HW-5	-	SCW	B	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H115B	3-Ø x 7'-Ø x 1 3/4	HW-10	-	SCW	B	HM	HM-1	10/A3.Ø	
H116	3-Ø x 7'-Ø x 1 3/4	HW-7	-	SCW	A	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H117A	3-Ø x 7'-Ø x 1 3/4	HW-6	-	SCW	A	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H117B	3-Ø x 7'-Ø x 1 3/4	HW-11	-	SCW	A	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H118	3-Ø x 7'-Ø x 1 3/4	HW-9	-	SCW	A	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H119	3-Ø x 7'-Ø x 1 3/4	HW-8	-	SCW	A	HM	HM-2	Ø6, Ø7/A3.Ø	4" HEAD
H122	PR 3-Ø x 7'-Ø x 1 3/4	HW-2	-	HM	A	HM	HM-2	Ø8, Ø9/A3.Ø	4" HEAD UL CLASSIFIED TO ICC500-2014

LEGEND:

ALUM ALUMINUM
HM HOLLOW METAL
MCW MINERAL CORE WOOD
SCW SOLID CORE WOOD
GL GLASS

WALL TYPES:



A — 25 GA. 3 5/8" MTL. STUDS @ 16" O.C. W/ 1 LAYER 5/8" TYPE 'X' GYP. BD. EACH SIDE. EXTEND 6" MIN. ABOVE FINISHED CEILING.

AA — 25 GA. 3 5/8" MTL. STUDS @ 16" O.C. W/ 1 LAYER 5/8" TYPE 'X' GYP. BD. ONE SIDE. EXTEND 6" MIN. ABOVE FINISHED CEILING.

E — 20 GA. 6" MTL. STUDS @ 16" O.C. W/ (1) LAYER IMPACT RESISTANT UP TO 8'-Ø" AFF. 5/8" GYP. BD., EXTEND TO UNDERSIDE OF DECK AND SEAL.

FF — 6" CMU W/ HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICAL. EXTEND 8" MIN. ABOVE FINISHED CEILING.

FFs — 6" CMU W/ HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICAL. EXTEND TO DECK AND SEAL TIGHT TO PREVENT PASSAGE OF SMOKE.

H — 25 GA. 1 1/2" HAT CHANNELS @ 16" O.C. OVER WALL CONSTRUCTION WITH 5/8" GYP BD. ONE SIDE. EXTEND 6" MIN. ABOVE FINISHED CEILING.

K — 20 GA. 6" MTL. STUDS @ 16" O.C. W/ 6" SOUND BATT INSULATION FULL HEIGHT OF WALL. 1 LAYER 5/8" SOUND DAMPENING GYP. BD. TO DECK BOTH SIDES. STC-53

Ks — 20 GA. 6" MTL. STUDS @ 16" O.C. W/ 6" SOUND BATT INSULATION FULL HEIGHT OF WALL. 1 LAYER 5/8" SOUND DAMPENING GYP. BD. TO DECK BOTH SIDES. EXTEND TO UNDERSIDE OF DECK AND SEAL TIGHT TO LIMIT PASSAGE OF SMOKE. STC-53

M — 8" CMU W/ HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICAL. CORRIDOR FACE OF BLOCK TO BE BURNISHED TO 7'-4" AFF. WITH STANDARD BLOCK ABOVE. EXTEND TO UNDERSIDE OF DECK. (REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION)

MS — 8" CMU W/ HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICAL. CORRIDOR FACE OF BLOCK TO BE BURNISHED TO 7'-4" AFF. WITH STANDARD BLOCK ABOVE. EXTEND TO UNDERSIDE OF DECK AND SEAL TIGHT TO LIMIT PASSAGE OF SMOKE. (REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION)

N — 8" CMU W/ HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICAL. ALL EXPOSED FACE OF BLOCK TO BE BURNISHED TO 7'-4" A.F.F. WITH STANDARD BLOCK ABOVE. EXTEND TO UNDERSIDE OF DECK. (REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION)

N2 — 8" CMU W/ HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICAL. ALL EXPOSED FACE OF BLOCK TO BE BURNISHED TO 7'-4" A.F.F. WITH STANDARD BLOCK ABOVE. EXTEND TO UNDERSIDE OF DECK AND SEAL. 2 HOUR RATED WALL. UL DESIGN NO. 925. (REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION) (REFER TO NOTE "1" SHEET A2.Ø)

Us — 12" CMU W/ HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICAL. CORRIDOR FACE OF BLOCK TO BE BURNISHED TO 7'-4" A.F.F. WITH STANDARD BLOCK ABOVE. EXTEND TO UNDERSIDE OF DECK AND SEAL TIGHT TO LIMIT PASSAGE OF SMOKE. (REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION)

U2 — 12" CMU W/ HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICAL. CORRIDOR FACE OF BLOCK TO BE BURNISHED TO 9'-4" A.F.F. WITH STANDARD BLOCK ABOVE. EXTEND TO UNDERSIDE OF DECK AND SEAL. 2 HOUR RATED WALL. UL DESIGN NO. 909.

V2 — 20 GA. 3 5/8" MTL. STUDS @ 16" O.C. W/ 3 1/2" SOUND BATT INSULATION FULL HEIGHT OF WALL AND (4) LAYER 5/8" GYP. BD., EXTEND TO UNDERSIDE OF DECK AND SEAL. (2) HOUR RATED WALL. UL DESIGN NO. V497.

X — 8" CMU W/ HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICAL. EXTEND TO UNDERSIDE OF DECK AND SEAL. (REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION)

Xs — 8" CMU W/ HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICAL. EXTEND TO UNDERSIDE OF DECK AND SEAL TIGHT TO PREVENT PASSAGE OF SMOKE. (REFER TO STRUCTURAL FOR ADDITIONAL INFORMATION)

Ys — 8" CMU W/ HORIZONTAL JOINT REINFORCING @ 16" O.C. VERTICAL. CORRIDOR FACE OF BLOCK TO BE BURNISHED TO 7'-4" A.F.F. WITH STANDARD BLOCK ABOVE TO 8" MIN. ABOVE CEILING. INSTALL 20 GA. 6" MTL. STUDS @ 16" O.C. W/ R-13 SOUND BATT INSULATION W/ 1 LAYER 5/8" TYPE 'X' GYP. BD. EACH SIDE. SEAL GYP. BD. TO TOP OF CMU BOTH SIDES. EXTEND TO UNDERSIDE OF DECK AND SEAL TIGHT TO LIMIT PASSAGE OF SMOKE. SYSTEM NO. WU-S-00248

WALL TYPE NOTES:

NOTE 1: REFER TO RATED WALL PENETRATION DETAILS ON L51Ø

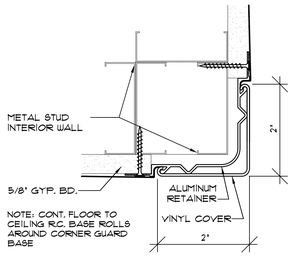
NOTE 2: WALL TYPES CONTINUOUS TO CORNER OR TO NEXT TYPE INDICATION

NOTE 3: ALL RATED WALLS TO BE EXTENDED TO THE UNDERSIDE OF ROOF DECKING AND SEALED W/ APPROVED CONSTRUCTION. REFER TO L51Ø AND L52.Ø FOR RATED WALL LOCATIONS.

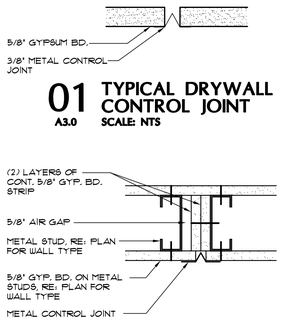
NOTE 4. WALL THICKNESS DIMENSIONS INDICATED ARE TO WALL SUBSTRATE AND DO NOT INCLUDE FINISH SURFACES (IE. CERAMIC TILE ETC.)

GENERAL ELEVATION NOTES:

1. REFER TO TYPICAL FLASHING INSTALLATION DETAILS
2. THE BASIS OF DESIGN IS FOR THE WINDOWS, DOORS, AND ALL OTHER WALL PENETRATIONS TO BE INSTALLED, FLASHED AND WATER TESTED PRIOR TO VENEER INSTALLATIONS.
3. INSTALL VERTICAL FLEXIBLE FLASHING BEHIND ALL DISSIMILAR MATERIAL ABUTMENTS AND TERMINATIONS.
4. WINDOW / WALL FLASHING TO BE WATER TESTED ACCORDING TO AAMA501.2-Ø34.
5. PROVIDE VERTICAL FLEXIBLE MEMBRANE AT WALL EXPANSION JOINTS.
6. CURTAIN WALL MANUFACTURER TO PROVIDE STEEL IN CURTAIN WALL SYSTEM FOR SUPPORT.

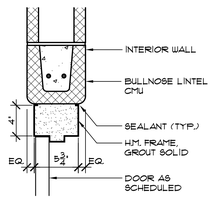


03 CORNER GUARD PLAN DETAIL — A3.0 SCALE: NTS

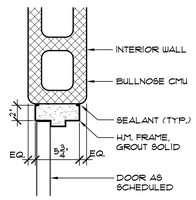


01 TYPICAL DRYWALL CONTROL JOINT — A3.0 SCALE: NTS

02 1 HOUR, NON COMBUSTIBLE 2 HR. SIM. FIRE STOP DETAIL — A3.0 SCALE: 3" = 1'-Ø"



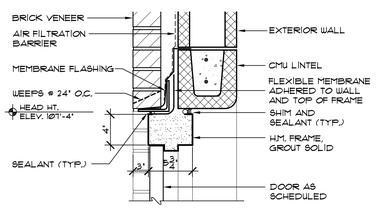
06 DETAIL H.M. DOOR HEAD — A3.0 SCALE: 1 1/2" = 1'-Ø"



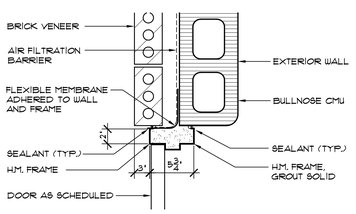
07 DETAIL H.M. DOOR JAMB — A3.0 SCALE: 1 1/2" = 1'-Ø"

04 NOT USED — A3.0 SCALE: 3" = 1'-Ø"

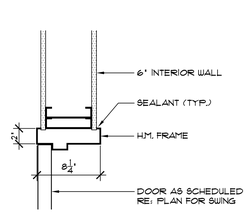
05 NOT USED — A3.0 SCALE: 3" = 1'-Ø"



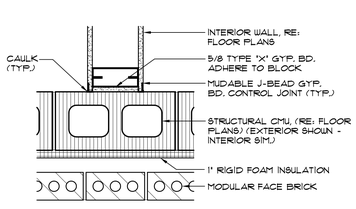
08 DETAIL H.M. DOOR HEAD — A3.0 SCALE: 1 1/2" = 1'-Ø"



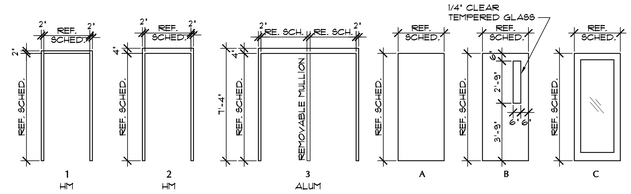
09 DETAIL H.M. DOOR JAMB — A3.0 SCALE: 1 1/2" = 1'-Ø"



10 DOOR JAMB HEAD SIMILAR — A3.0 SCALE: 1 1/2" = 1'-Ø"



11 PLAN TYPICAL INTERIOR GYP. BD. TO CMU DETAIL — A3.0 SCALE: 1 1/2" = 1'-Ø"



BLEDSOE ARCHITECTS
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NEW CLASSROOM / TORNADO SHELTER ADDITION for
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449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

WALL TYPES, SCHEDULES AND DETAILS

BPSB PROJECT #26-02

JOB NO. 2511

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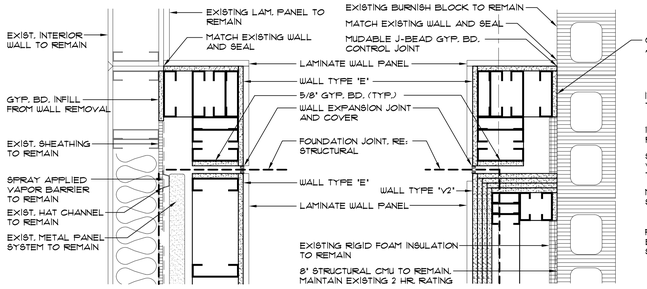
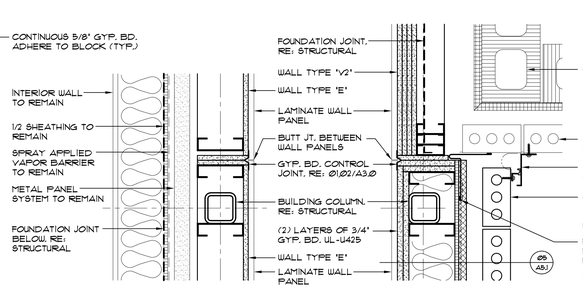
A3.0



01 PLAN DETAIL
A3.1 SCALE: 1 1/2" = 1'-0"

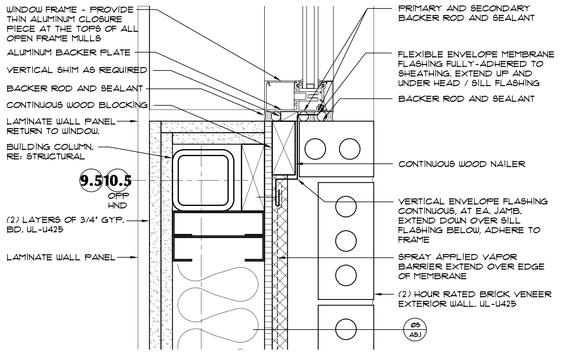


02 PLAN DETAIL
A3.1 SCALE: 1 1/2" = 1'-0"

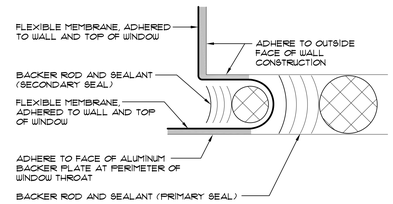
03 PLAN DETAIL
A3.1 SCALE: 1 1/2" = 1'-0"

04 PLAN DETAIL
A3.1 SCALE: 1 1/2" = 1'-0"

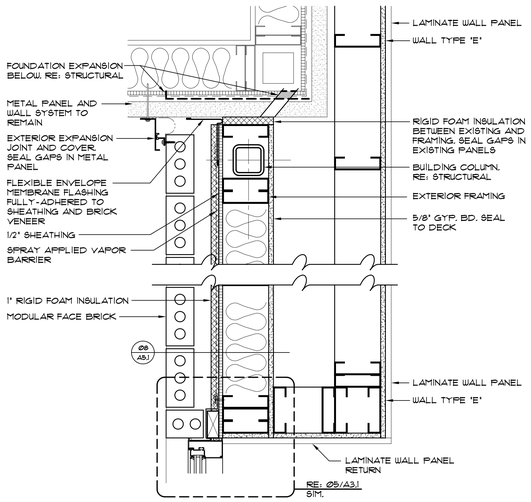
NOTE: VERTICAL CONTROL JOINTS AT ALL DIS-SIMULAR CONSTRUCTION



05 PLAN JAMB DETAIL
A3.1 SCALE: 3" = 1'-0"



TYPICAL FLEX MEMBRANE DETAIL ALL PRIMARY AND SECONDARY SEAL
SCALE: NTS



06 PLAN DETAIL
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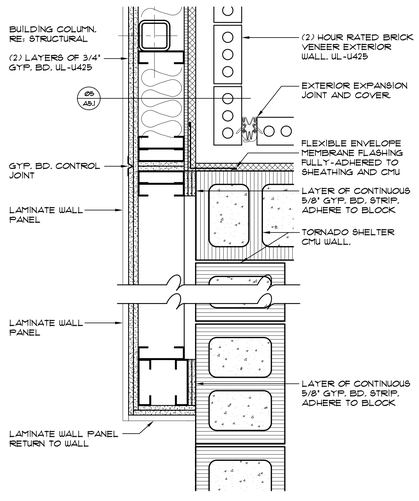

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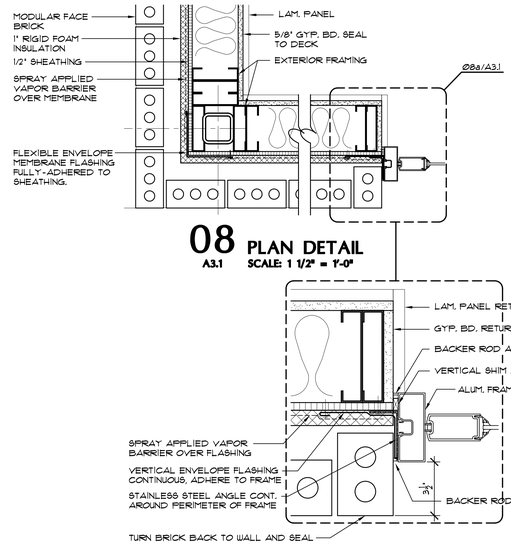

08 PLAN DETAIL
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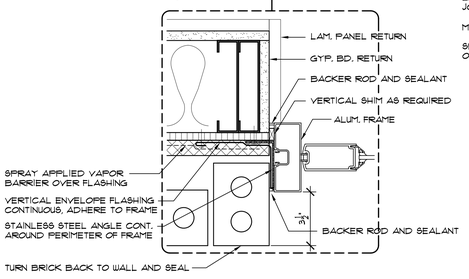
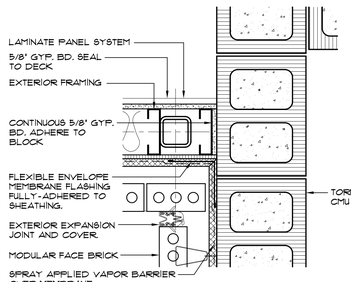


08a ENLARGED JAMB PLAN DETAIL
A3.1 SCALE: 3" = 1'-0"



09 PLAN DETAIL
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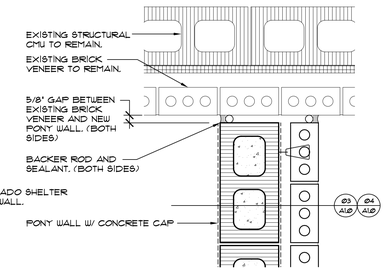
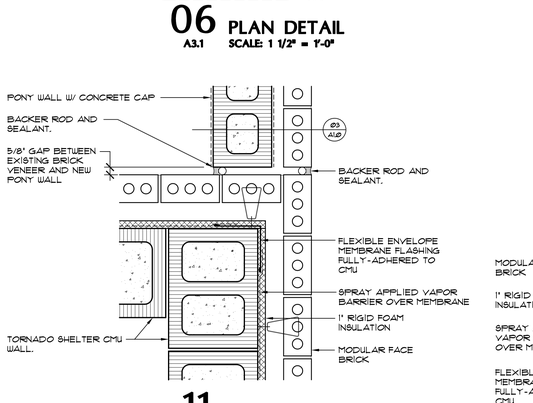
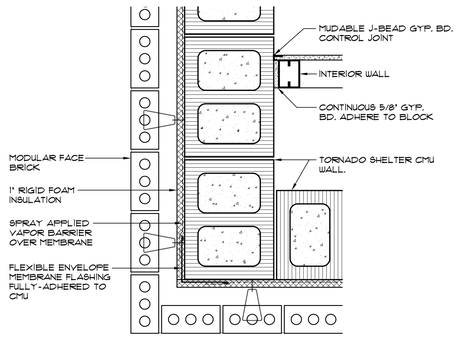


10 PLAN DETAIL
A3.1 SCALE: 1 1/2" = 1'-0"



11 PLAN DETAIL
A3.1 SCALE: 1 1/2" = 1'-0"



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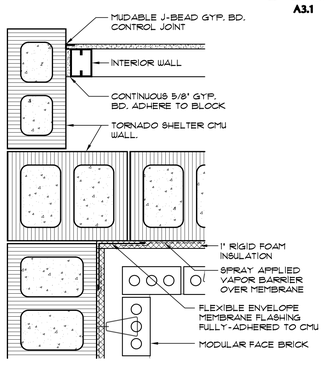
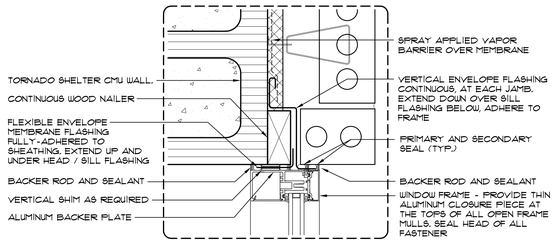
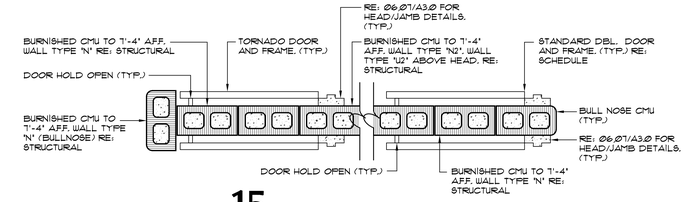


13 PLAN DETAIL
A3.1 SCALE: 1 1/2" = 1'-0"



14 ENLARGED JAMB PLAN DETAIL
A3.1 SCALE: 3" = 1'-0"



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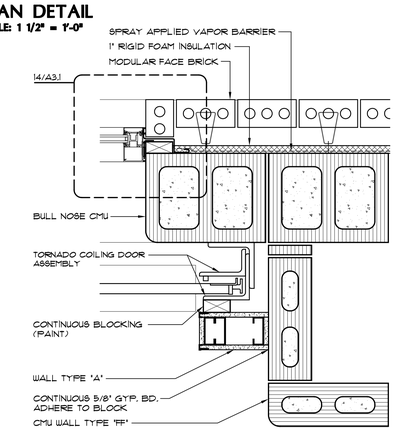

16 PLAN DETAIL
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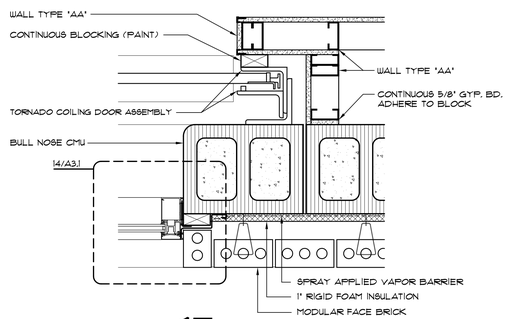

17 PLAN DETAIL
A3.1 SCALE: 1 1/2" = 1'-0"

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ENLARGED PLAN DETAILS

BOSSIER SCHOOLS "Win the Day!"

BPSB PROJECT #26-02

JOB NO. 2511

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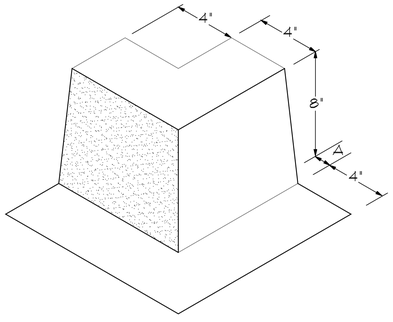
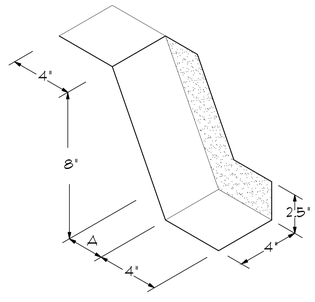
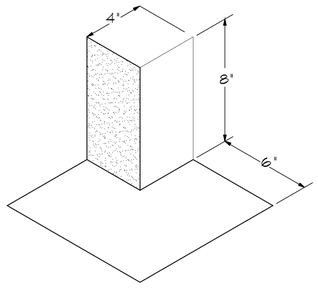


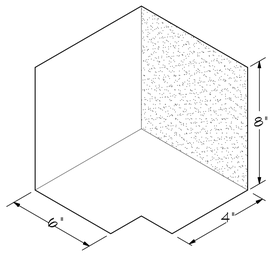
TYPICAL
INTERNAL / EXTERIOR
CORNER CLOAK DETAIL
SCALE: NTS



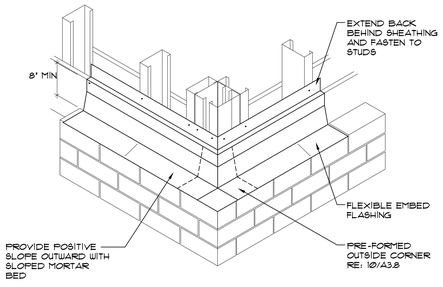
TYPICAL
STOP END CLOAK DETAIL
SCALE: NTS



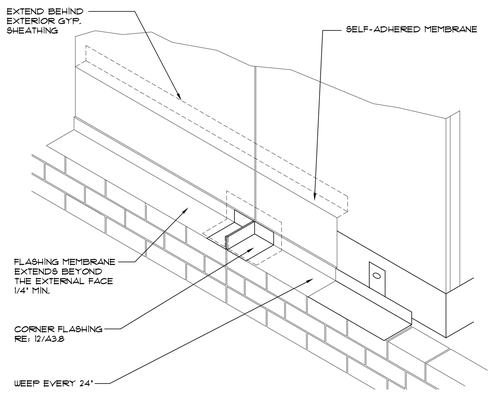
TYPICAL
EXTERIOR CORNER CLOAK DETAIL
SCALE: NTS



TYPICAL
INTERNAL CORNER CLOAK DETAIL
SCALE: NTS



TYPICAL
TERMINATION OF FLASHING
AT SHEATHING DETAIL
SCALE: NTS



TYPICAL
FLASHING AT CONTROL JOINT /
EXPANSION JOINT DETAIL
SCALE: NTS

BLEDSOE
ARCHITECTS

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TYPICAL FLASHING DETAILS

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JOB NO. 2511

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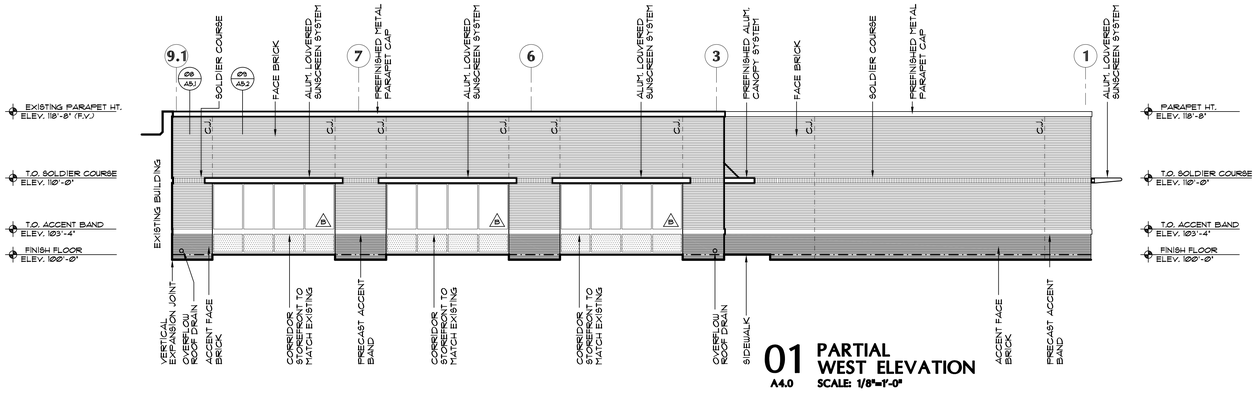
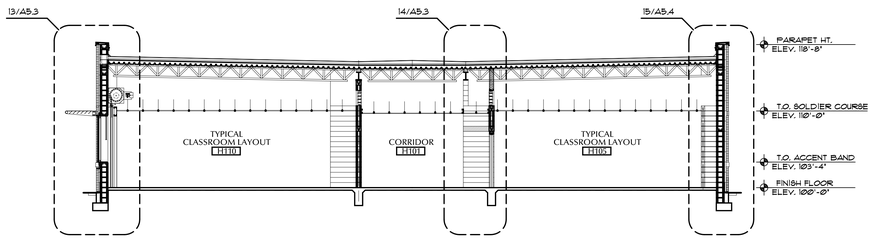
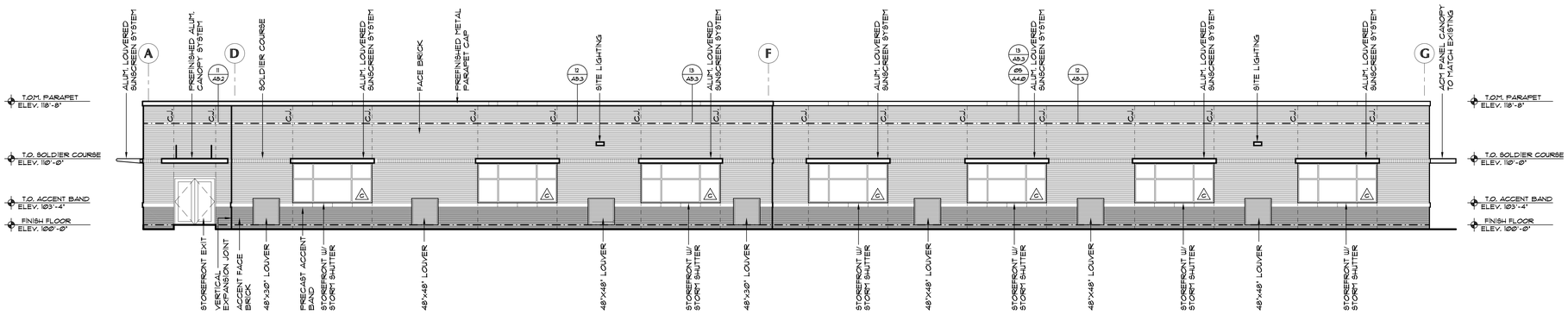
A3.2



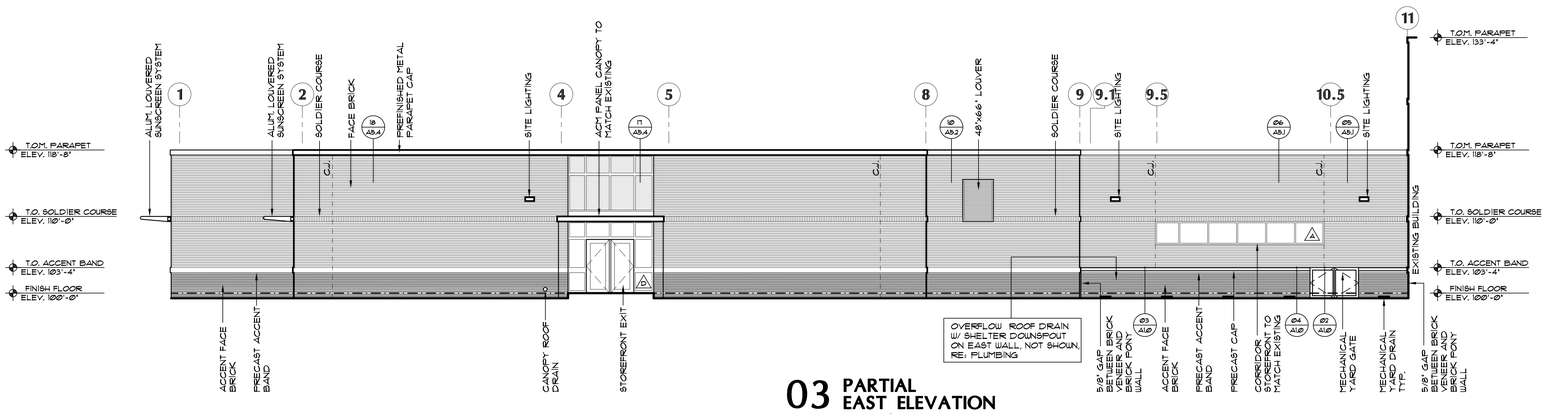
01 PARTIAL WEST ELEVATION
A4.0 SCALE: 1/8"=1'-0"



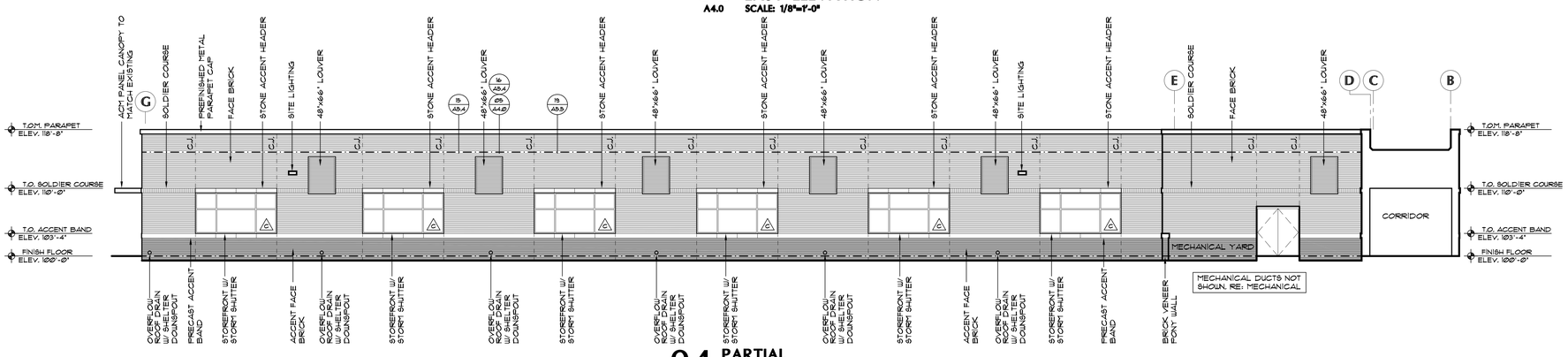
05 BUILDING SECTION
A4.0 SCALE: 1/8"=1'-0"



02 PARTIAL SOUTH ELEVATION
A4.0 SCALE: 1/8"=1'-0"



03 PARTIAL EAST ELEVATION
A4.0 SCALE: 1/8"=1'-0"



04 PARTIAL NORTH ELEVATION
A4.0 SCALE: 1/8"=1'-0"

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EXTERIOR ELEVATIONS AND BUILDING SECTION

BPSB PROJECT #26-02

JOB NO. 2511

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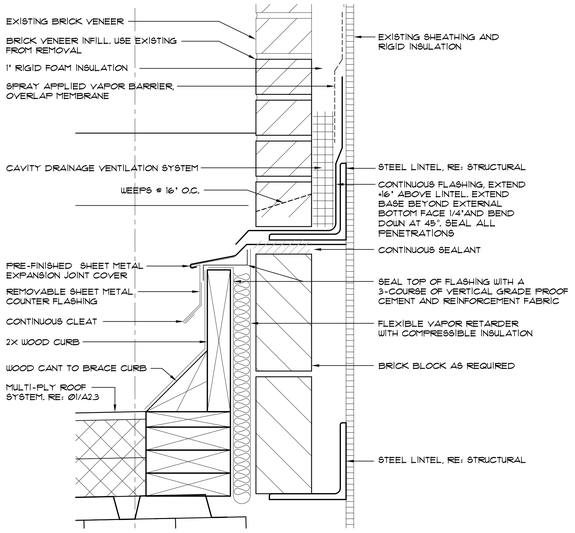
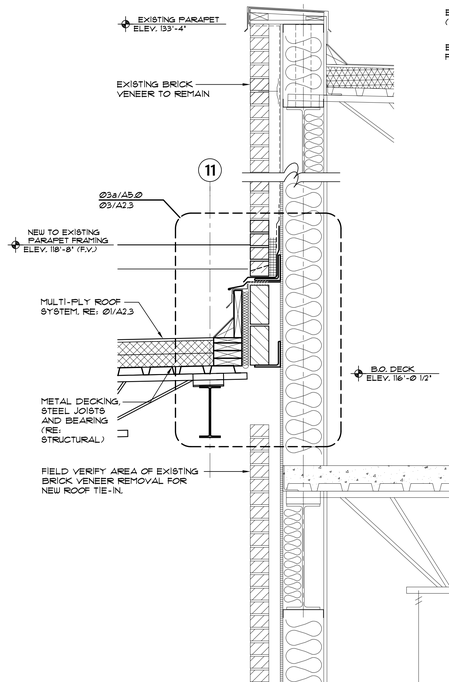
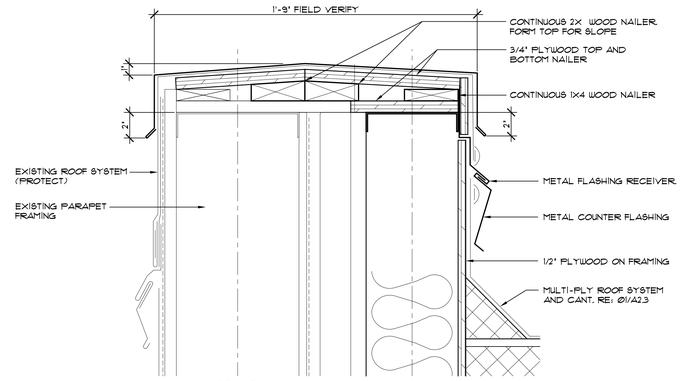
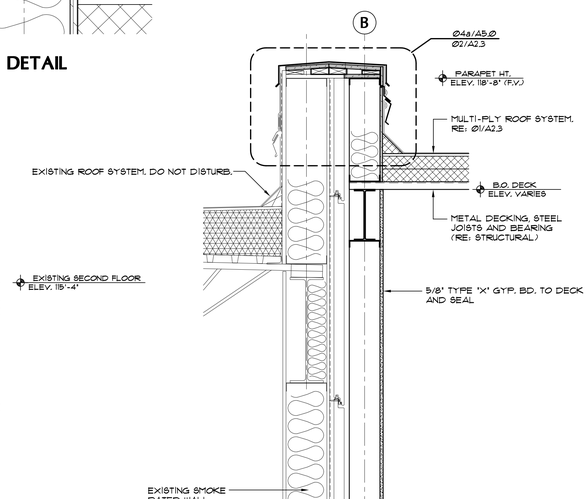


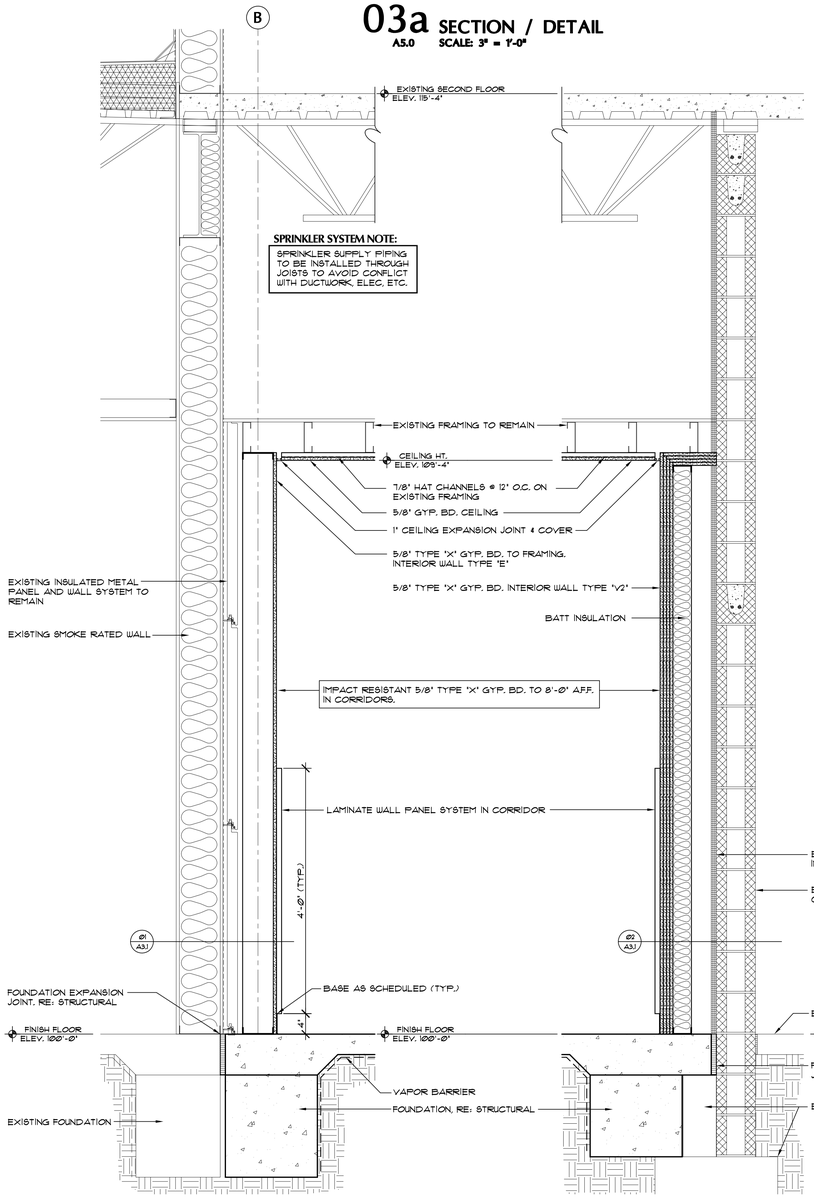
03a SECTION / DETAIL
A5.0 SCALE: 3" = 1'-0"



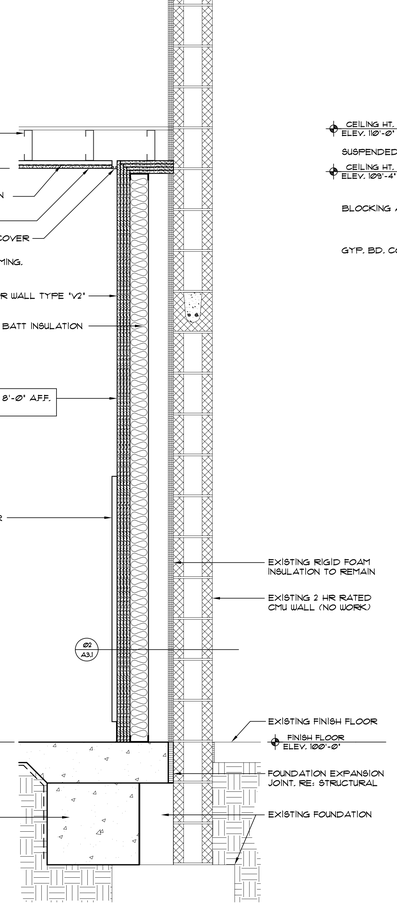


04a SECTION / DETAIL
A5.0 SCALE: 3" = 1'-0"



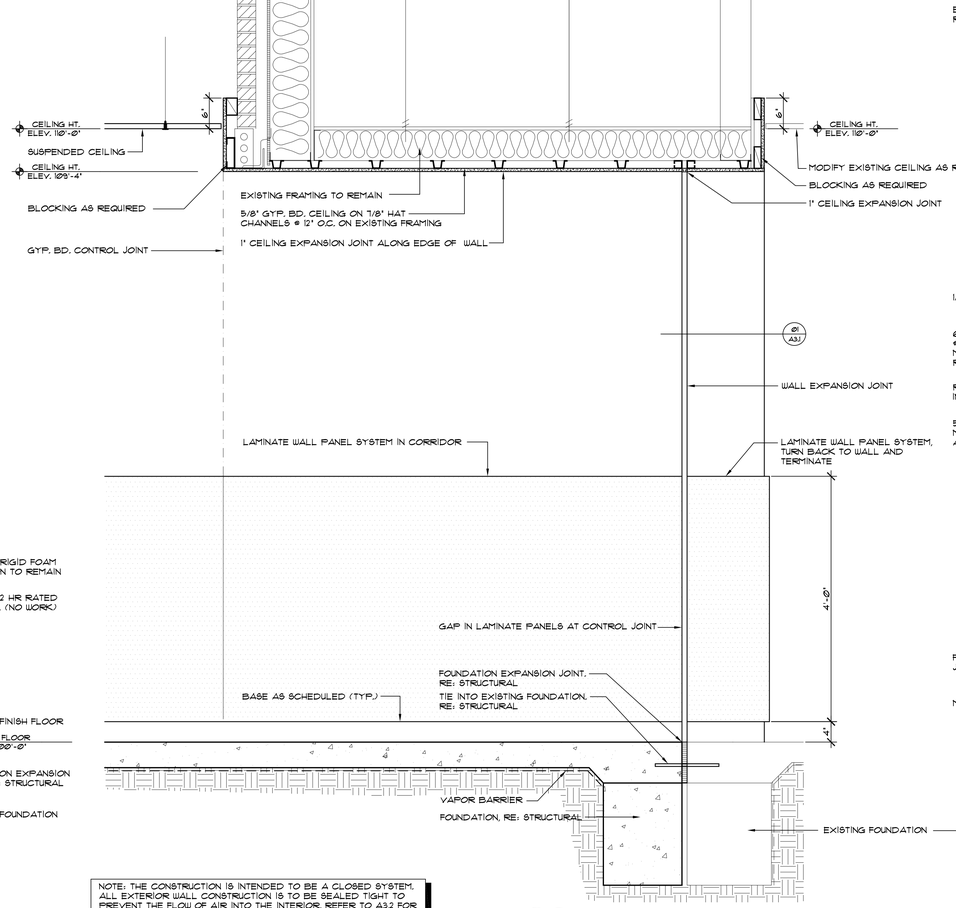


01 WALL SECTION
A5.0 SCALE: 1" = 1'-0"

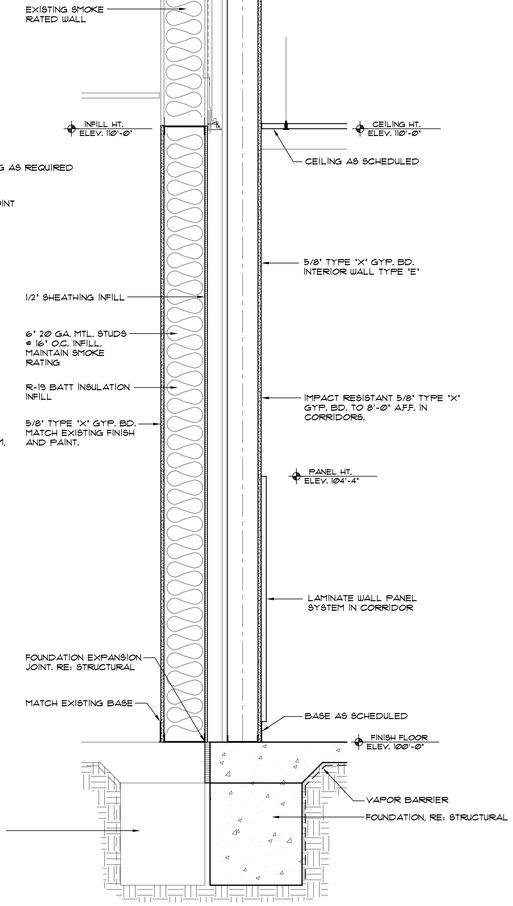


02 WALL SECTION
A5.0 SCALE: 1" = 1'-0"

NOTE: THE CONSTRUCTION IS INTENDED TO BE A CLOSED SYSTEM. ALL EXTERIOR WALL CONSTRUCTION IS TO BE SEALED TIGHT TO PREVENT THE FLOW OF AIR INTO THE INTERIOR. REFER TO A3.2 FOR CLOAK FLASHING.



03 WALL SECTION
A5.0 SCALE: 1" = 1'-0"



04 WALL SECTION
A5.0 SCALE: 1" = 1'-0"

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WALL SECTIONS

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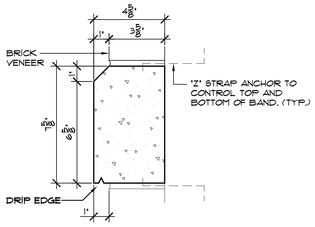
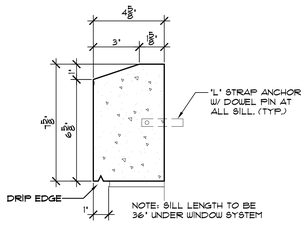
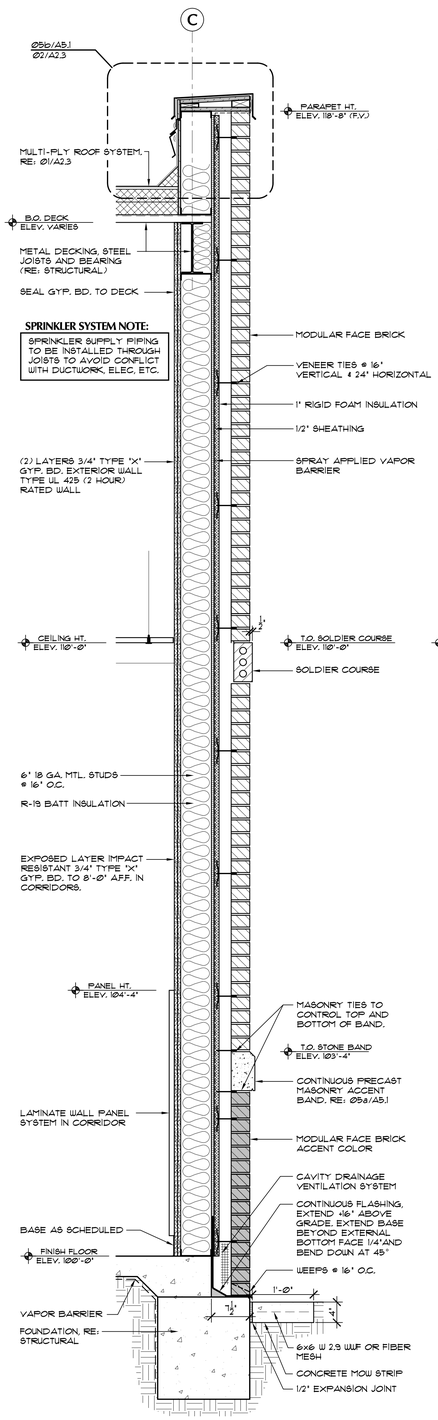


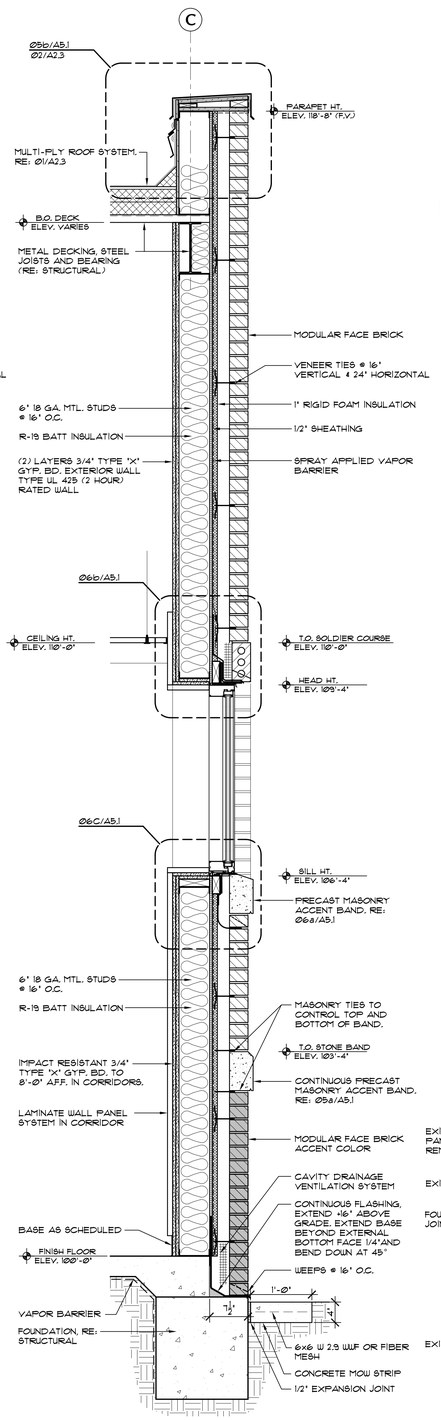
05a CAST ACCENT BAND DETAIL
A5.1 SCALE: 3" = 1'-0"



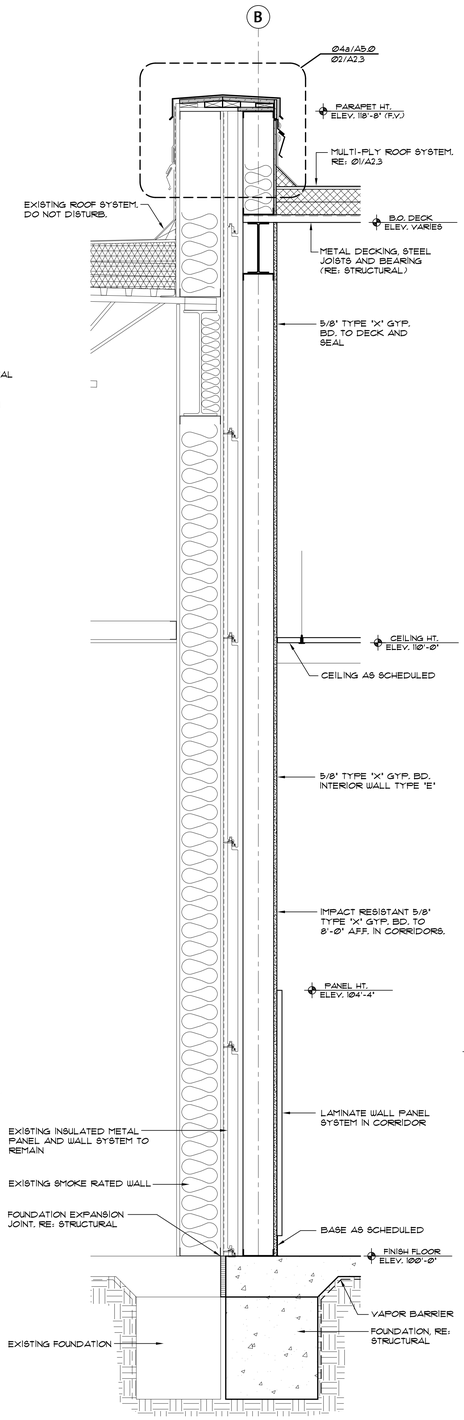
06a CAST ACCENT SILL DETAIL
A5.1 SCALE: 3" = 1'-0"



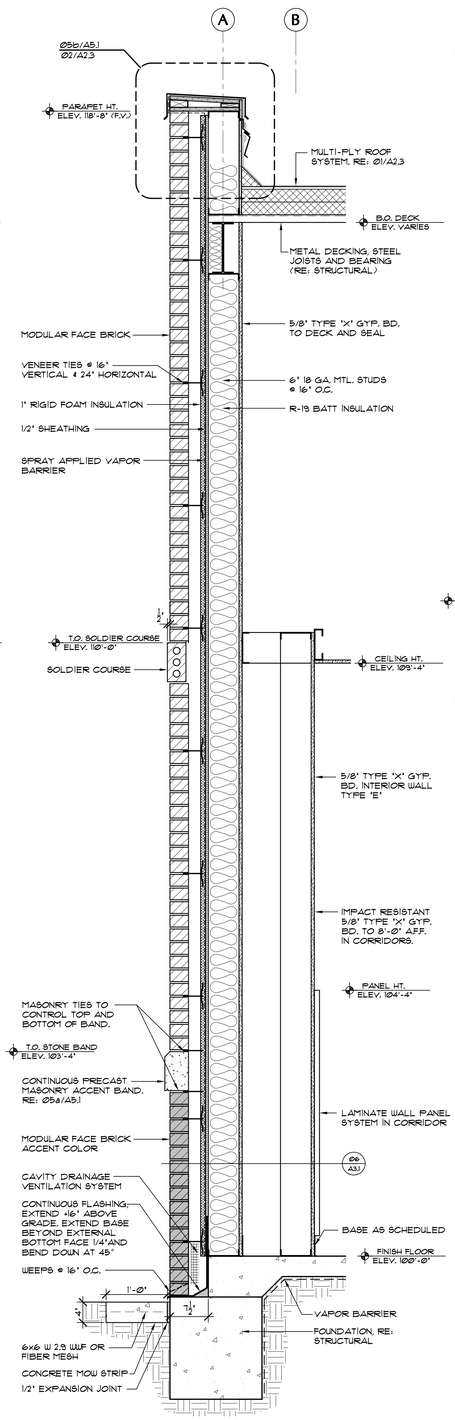
05 WALL SECTION
A5.1 SCALE: 1" = 1'-0"



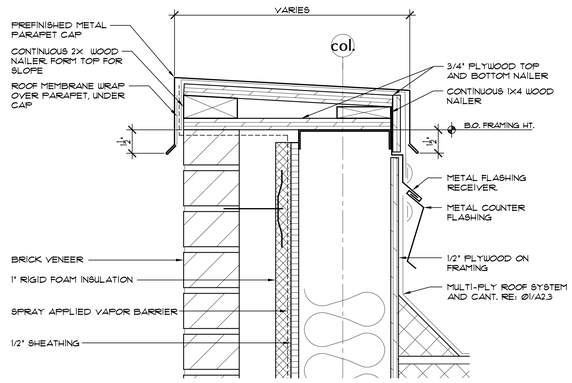
06 WALL SECTION
A5.1 SCALE: 1" = 1'-0"



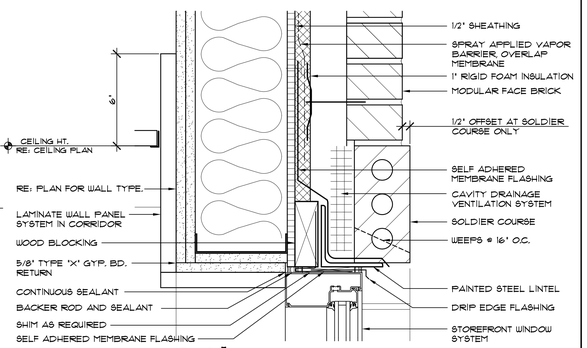
07 WALL SECTION
A5.1 SCALE: 1" = 1'-0"



08 WALL SECTION
A5.1 SCALE: 1" = 1'-0"

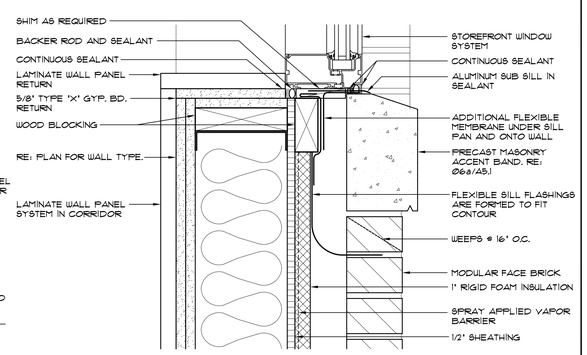


05b SECTION / DETAIL
A5.1 3" = 1'-0"



06b SECTION / DETAIL
A5.1 3" = 1'-0"

WINDOW FRAME - PROVIDE THIN ALUMINUM CLOSURE PIECE AT THE BOTTOM OF ALL OPEN FRAME MULLS. USE PRE-FORMED END DAMS EACH SIDE. ADHERE TO SILL FLASHING (TYP.)(NOT SHOWN



06c SECTION / DETAIL
A5.1 3" = 1'-0"

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WALL SECTIONS

BPSB PROJECT #26-02

JOB NO. 2511

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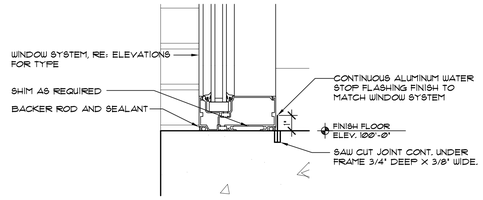
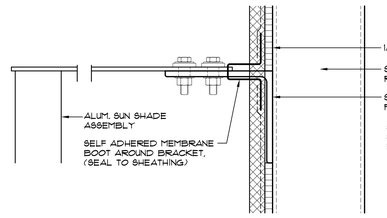
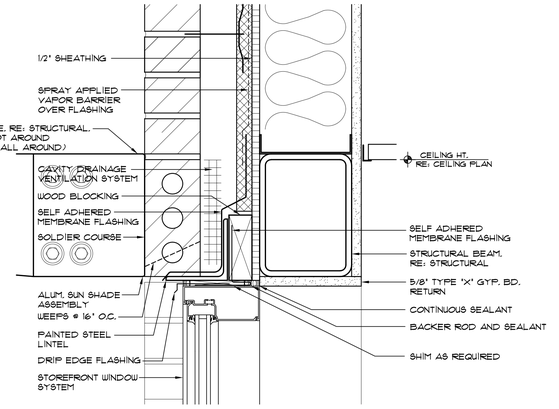
SHEET
A5.1



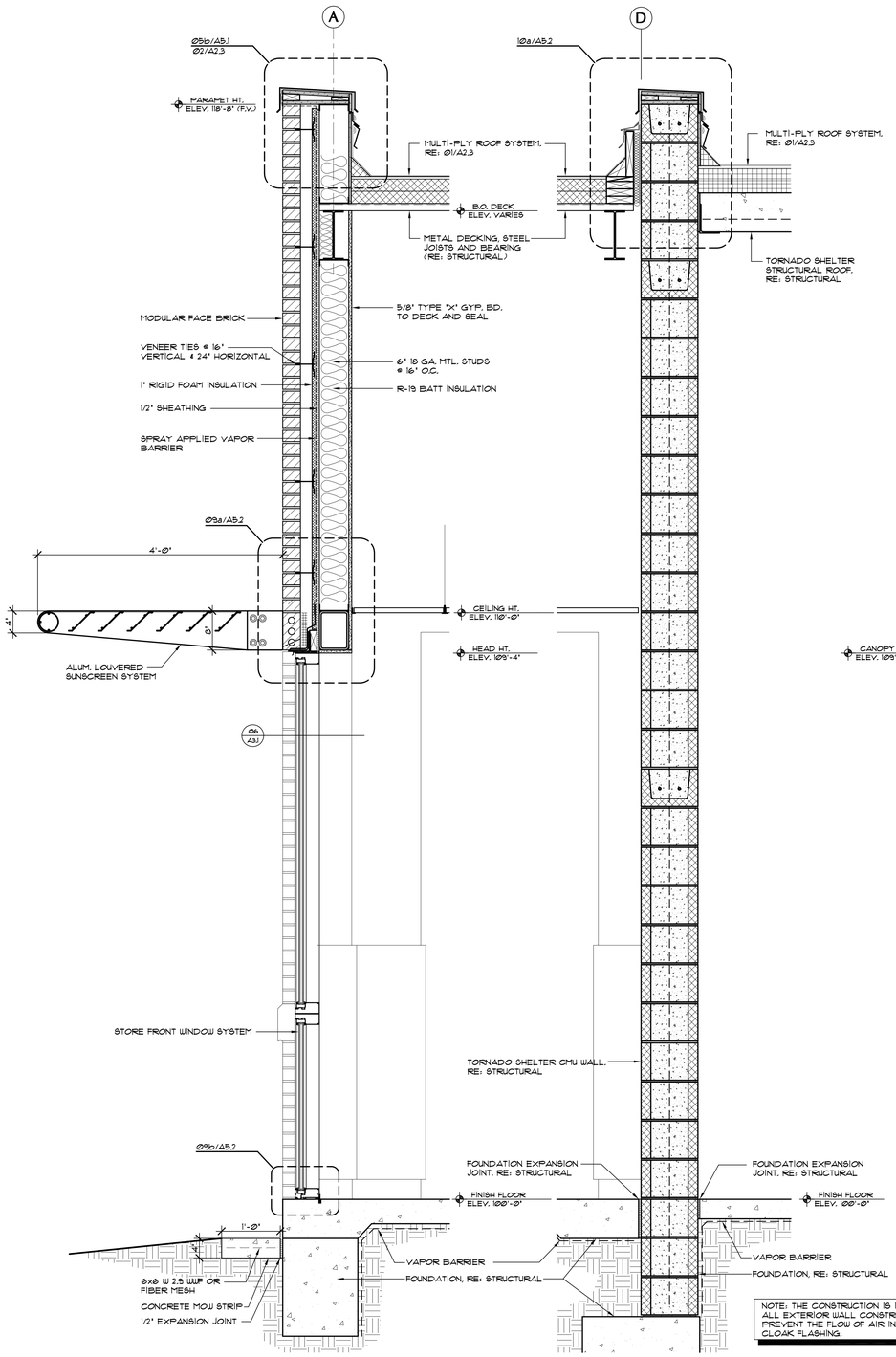
09b SILL SECTION / DETAIL
A5.2 SCALE: 3" = 1'-0"



SUNSHADE PLAN

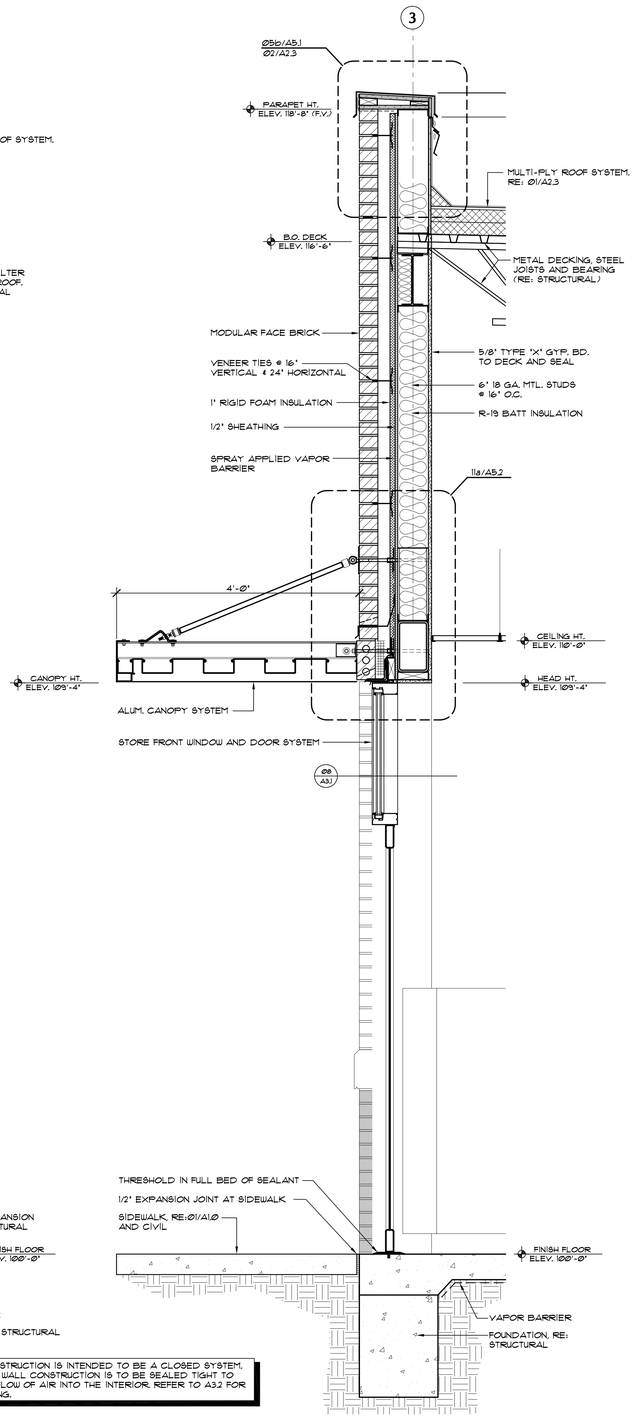


09a HEAD / SUNSHADE SYSTEM SECTION / DETAIL
A5.2 SCALE: 3" = 1'-0"



09 WALL SECTION
A5.2 SCALE: 1" = 1'-0"

10 WALL SECTION
A5.2 SCALE: 1" = 1'-0"



11 WALL SECTION
A5.2 SCALE: 1" = 1'-0"

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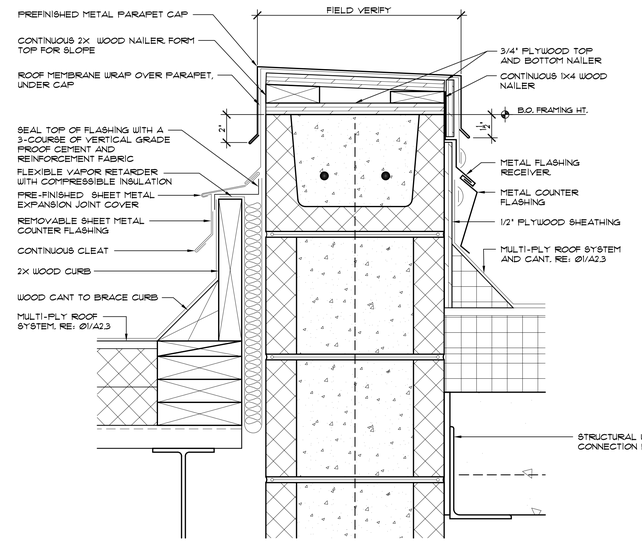
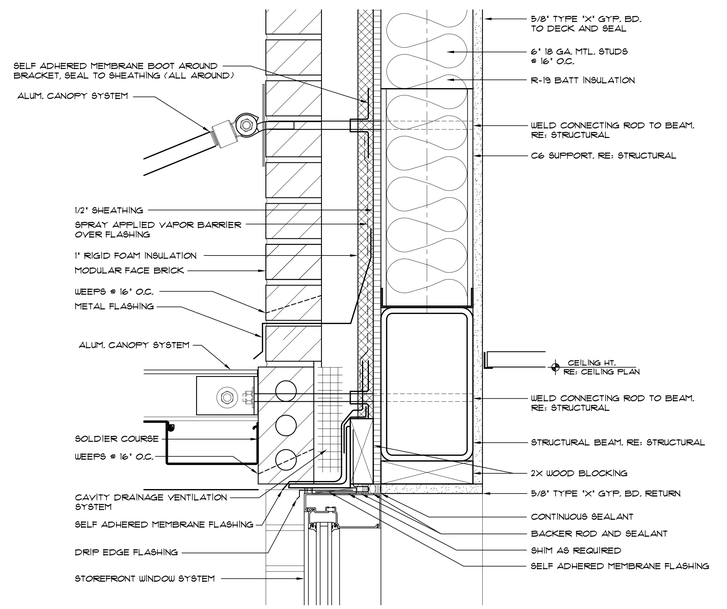


10a SECTION / DETAIL
A5.2 SCALE: 3" = 1'-0"



11a SECTION / DETAIL
A5.2 SCALE: 3" = 1'-0"

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WALL SECTIONS

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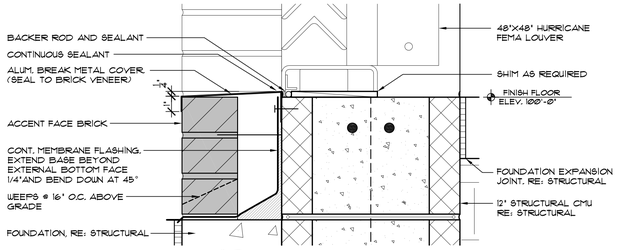
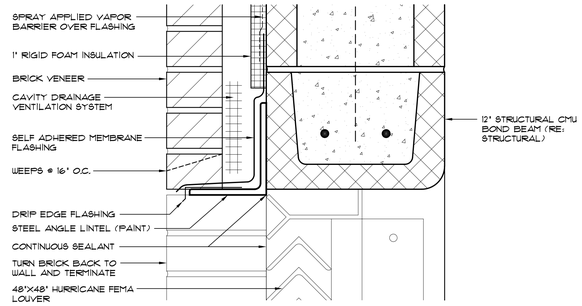
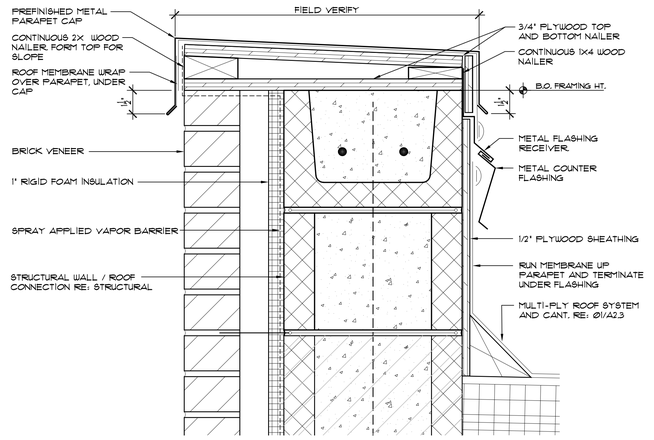
SHEET
A5.2



12c SECTION / DETAIL
A5.3 SCALE: 3" = 1'-0"



12b SECTION / DETAIL
A5.3 SCALE: 3" = 1'-0"



12a SECTION / DETAIL
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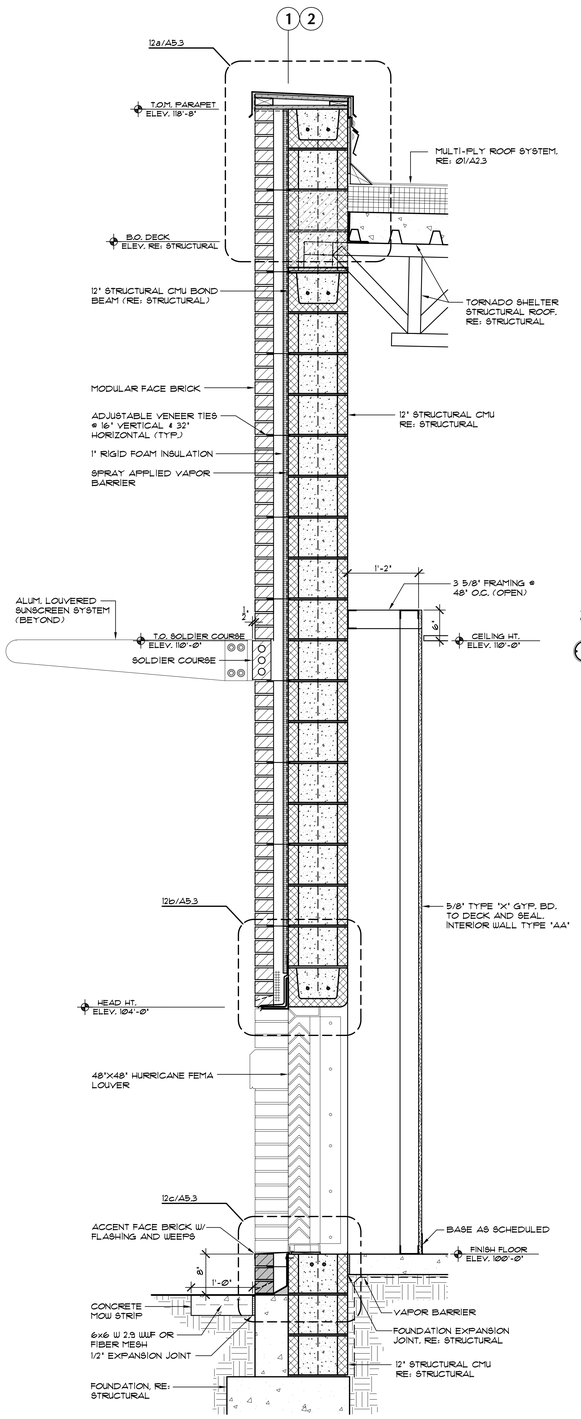
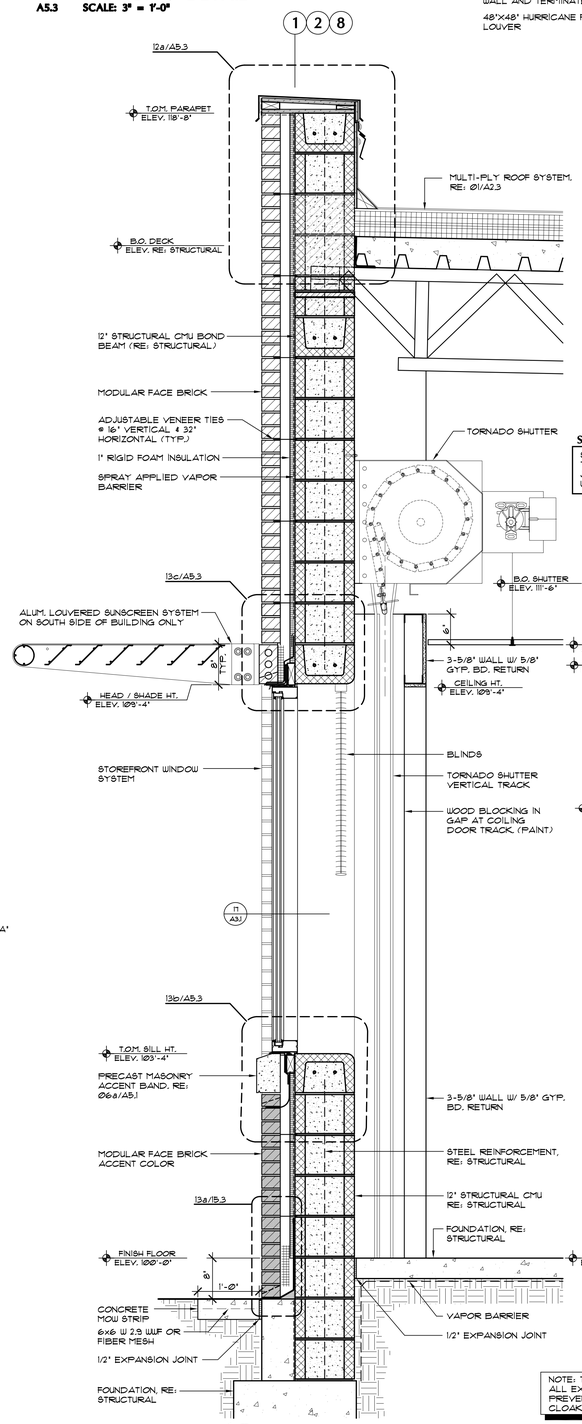
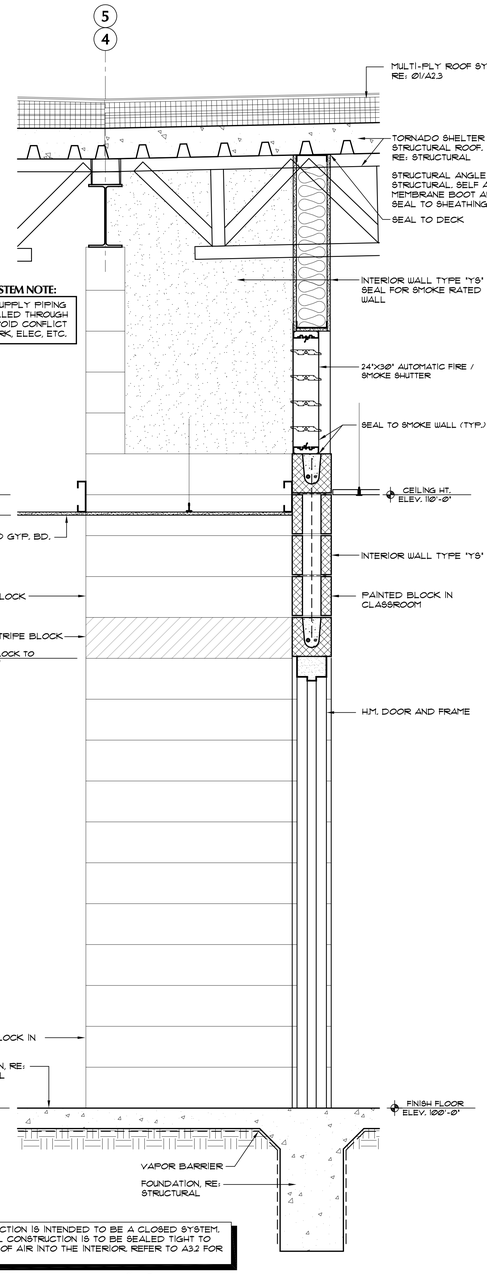


12 WALL SECTION
A5.3 SCALE: 1" = 1'-0"



13 WALL SECTION
A5.3 SCALE: 1" = 1'-0"



SPRINKLER SYSTEM NOTE:
SPRINKLER SUPPLY PIPING TO BE INSTALLED THROUGH JOISTS TO AVOID CONFLICT WITH DUCTWORK, ELEC, ETC.

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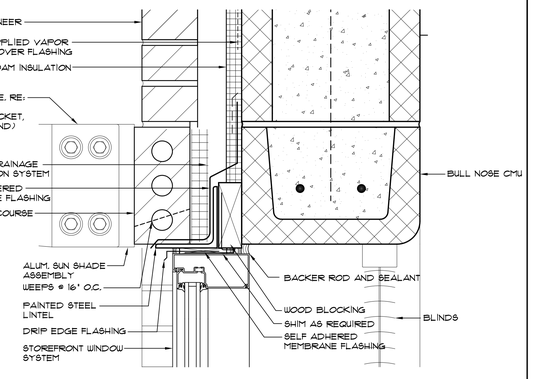
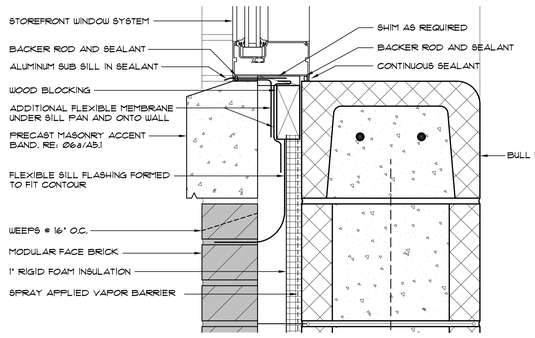
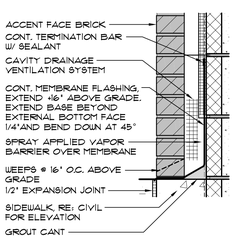
14 WALL SECTION
A5.3 SCALE: 1" = 1'-0"



13c SECTION / DETAIL
A5.3 SCALE: 3" = 1'-0"



13b SECTION / DETAIL
A5.3 SCALE: 3" = 1'-0"



13a SECTION / DETAIL
A5.3 SCALE: 1 1/2" = 1'-0"

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WALL SECTIONS

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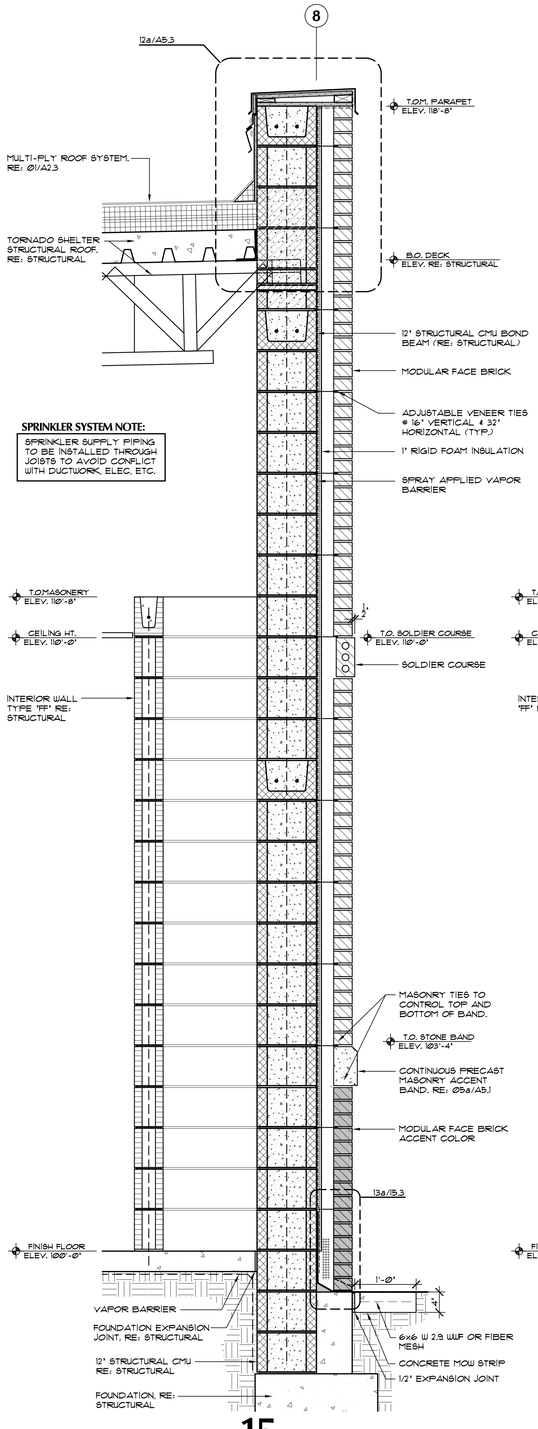
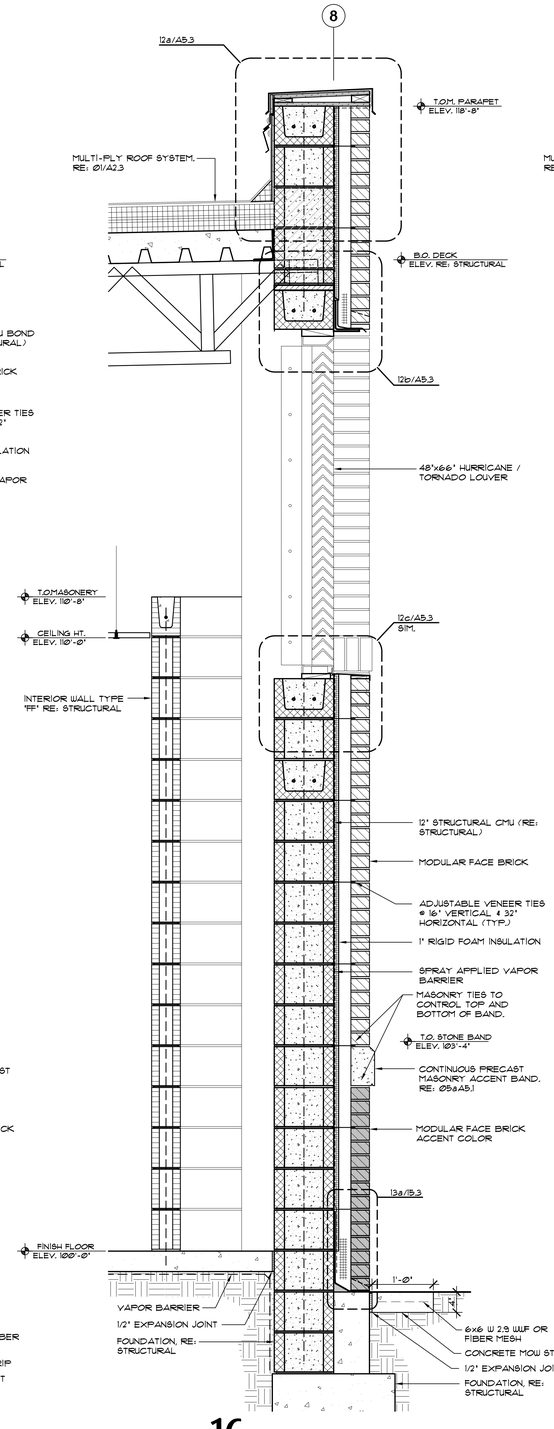
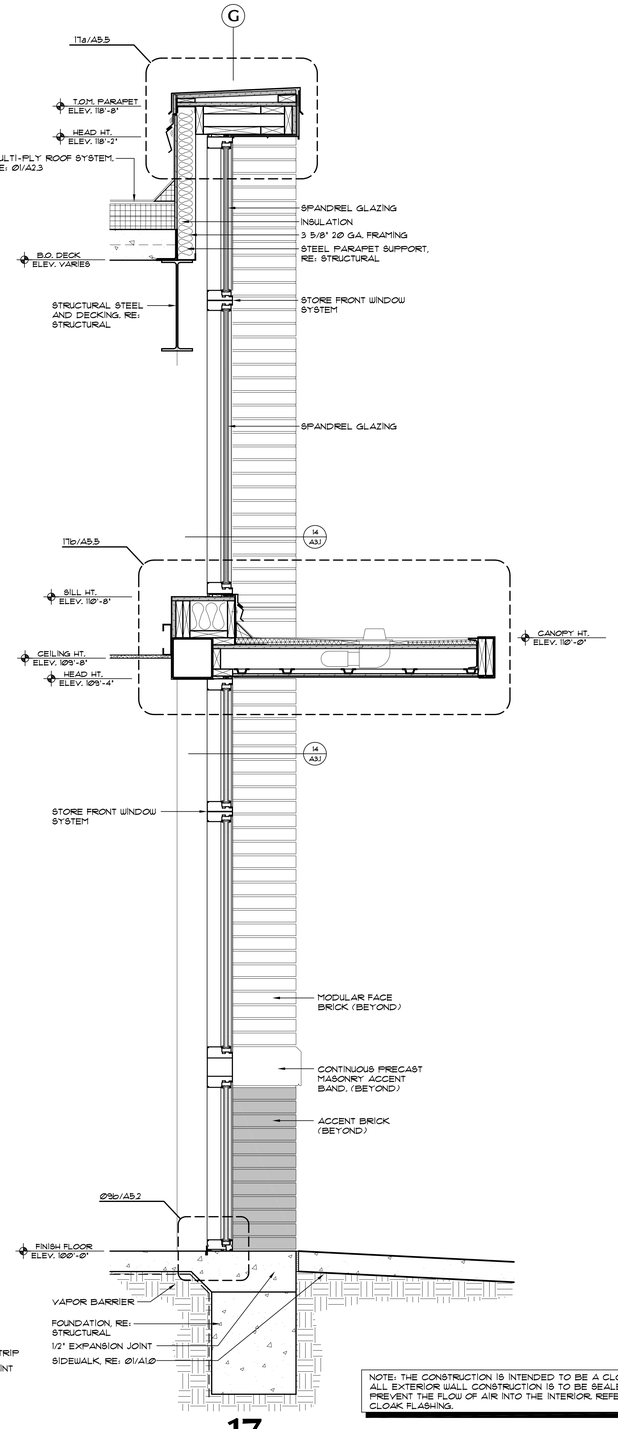
SHEET
A5.3



15 WALL SECTION
A5.4 SCALE: 1" = 1'-0"



16 WALL SECTION
A5.4 SCALE: 1" = 1'-0"



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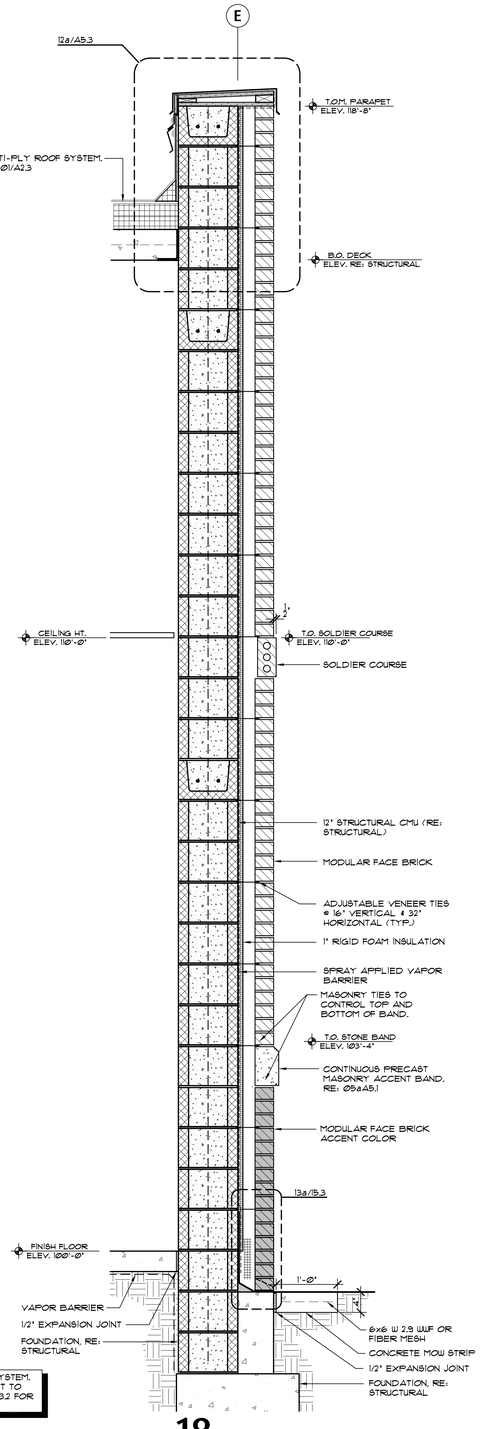
17 WALL SECTION
A5.4 SCALE: 1" = 1'-0"



18 WALL SECTION
A5.4 SCALE: 1" = 1'-0"

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BRYAN T. BLEDSOE LA. NO. 30264 STATE OF LOUISIANA REGISTERED ARCHITECT 01.14.26

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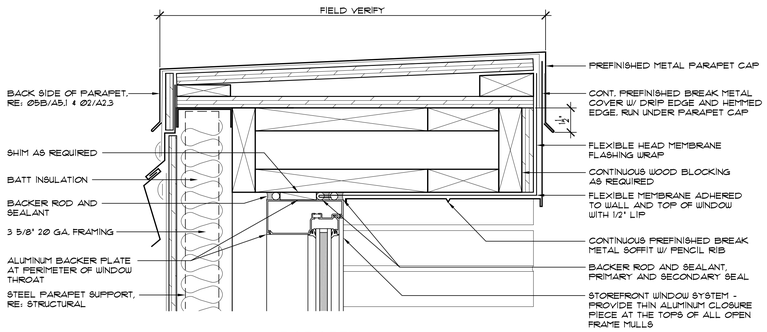
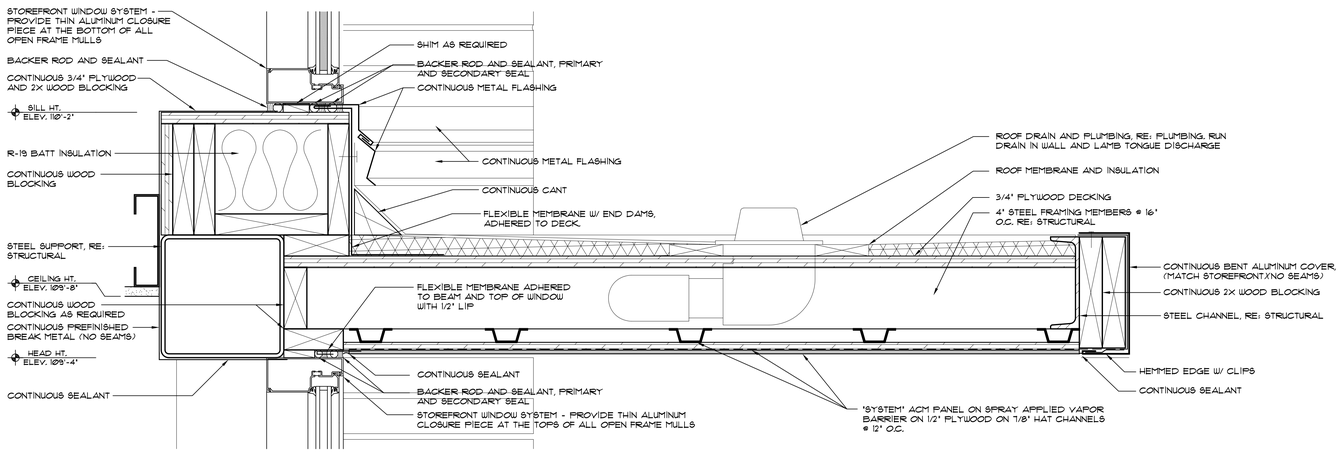
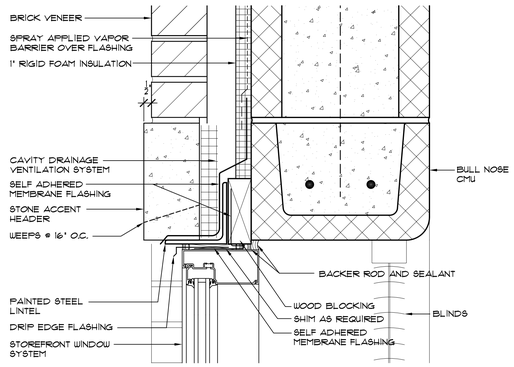
SHEET
A5.4



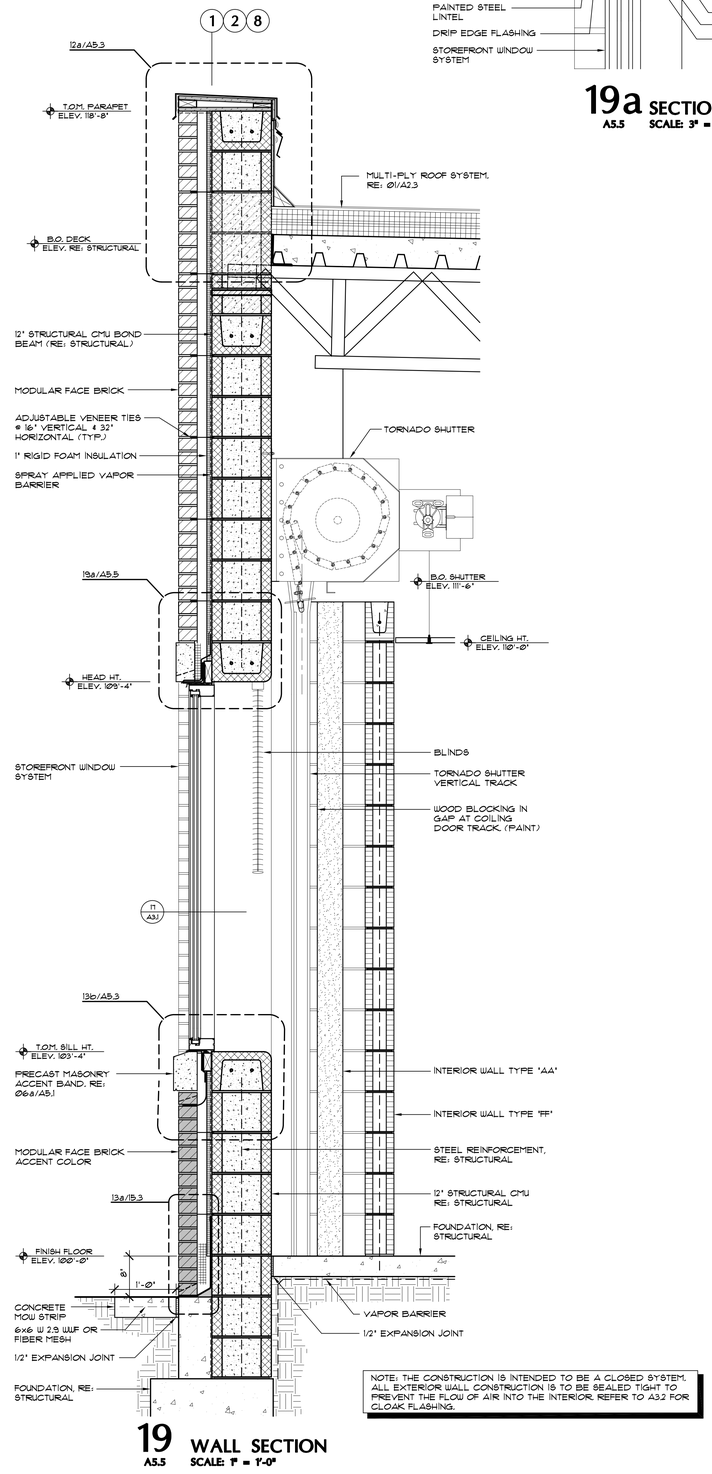
17a PARAPET SECTION / DETAIL
A5.5 SCALE: 3" = 1'-0"



17b CANOPY SECTION / DETAIL
A5.5 SCALE: 3" = 1'-0"



19a SECTION / DETAIL
A5.5 SCALE: 3" = 1'-0"



19 WALL SECTION
A5.5 SCALE: 1" = 1'-0"

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WALL SECTIONS AND DETAILS

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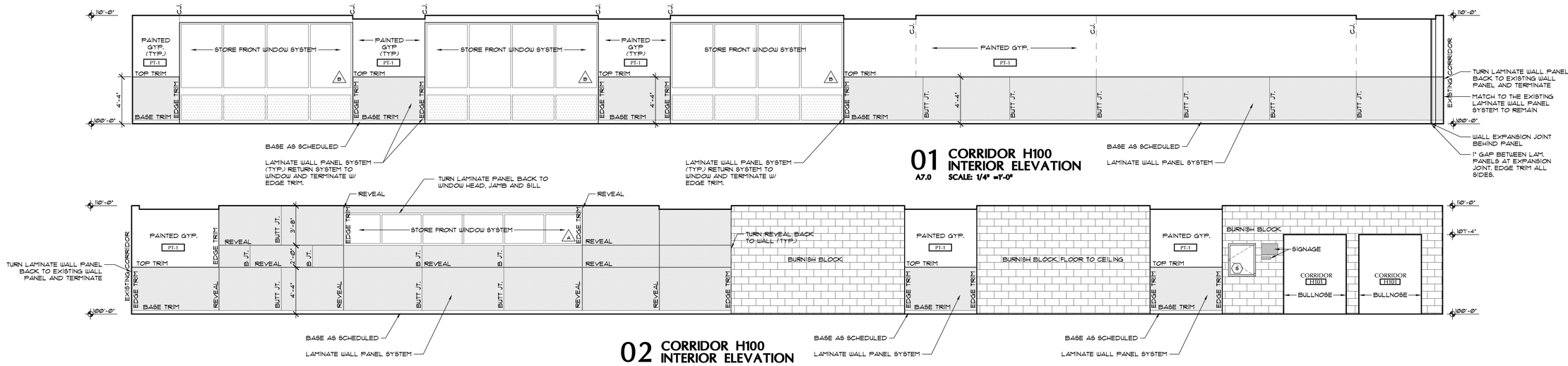
SHEET

A5.5



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INTERIOR ELEVATIONS

BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

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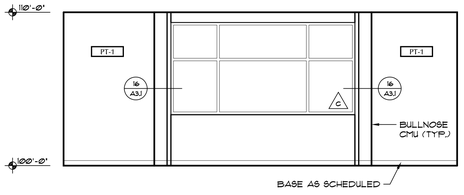
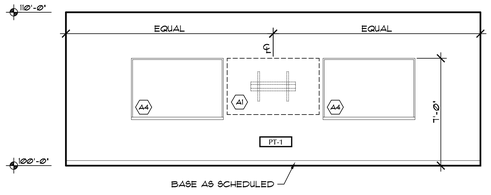
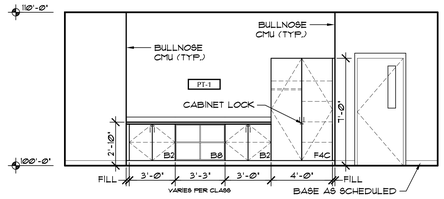
SHEET
A7.0



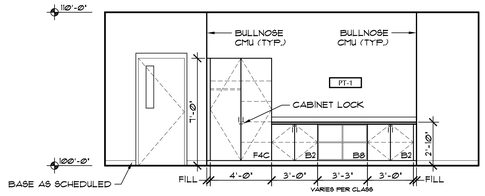
07 TYPICAL CLASSROOM INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



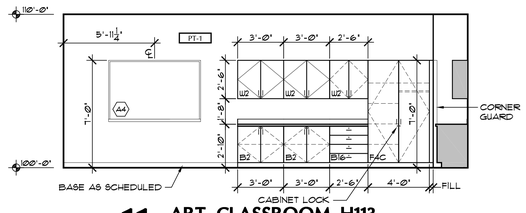
08 TYPICAL CLASSROOM INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



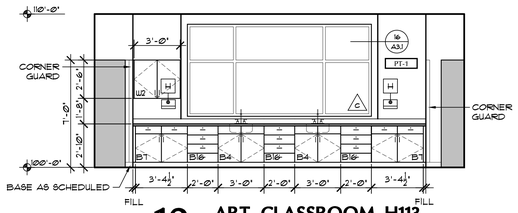
09 TYPICAL CLASSROOM INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



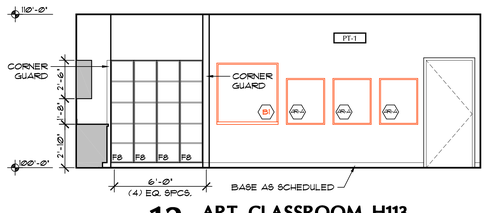
10 TYPICAL CLASSROOM INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



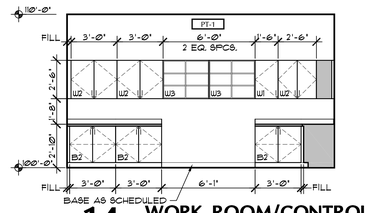
11 ART CLASSROOM H113 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



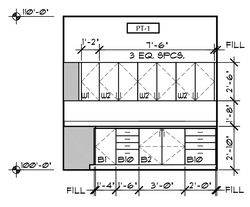
12 ART CLASSROOM H113 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



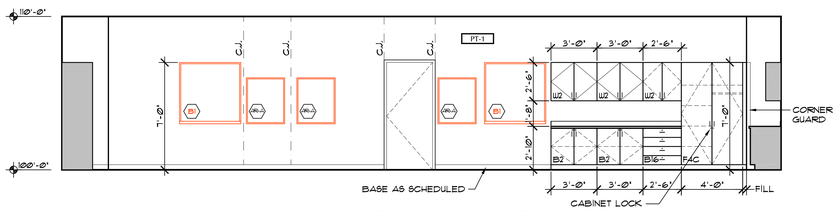
13 ART CLASSROOM H113 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



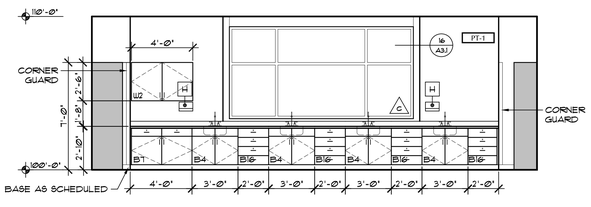
14 WORK ROOM/CONTROL INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



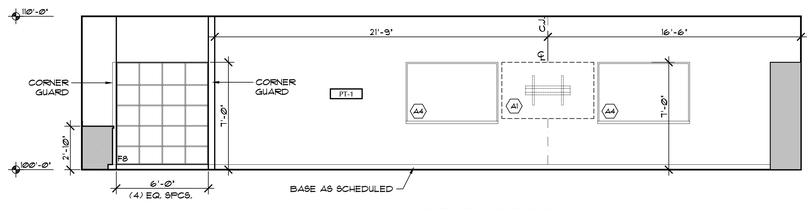
15 WORK ROOM/CONTROL INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



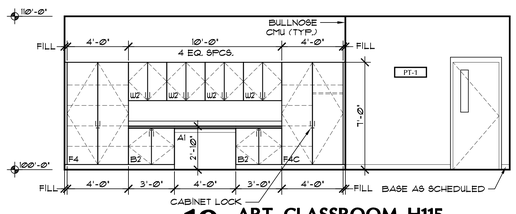
16 ART CLASSROOM H115 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



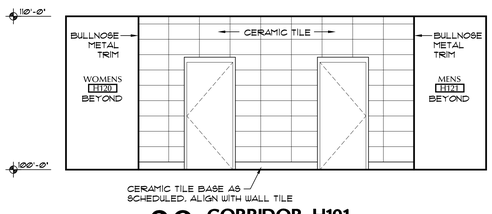
17 ART CLASSROOM H115 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



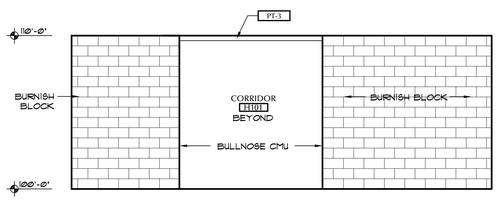
18 ART CLASSROOM H115 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



19 ART CLASSROOM H115 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



20 CORRIDOR H101 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



21 CORRIDOR H101 INTERIOR ELEVATION
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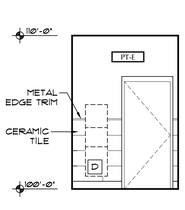
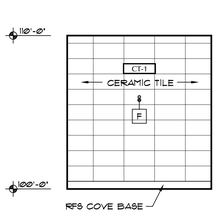
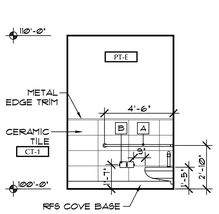


22 STAFF H119 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



23 STAFF H119 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



24 STAFF H119 INTERIOR ELEVATION
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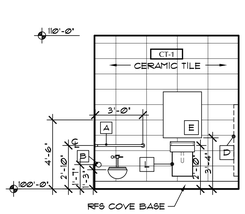
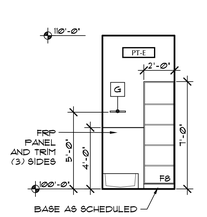
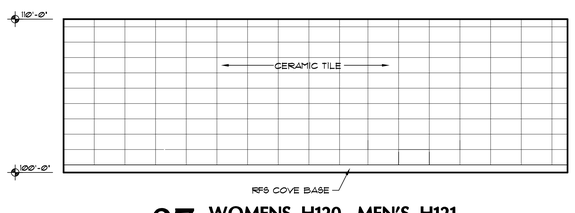


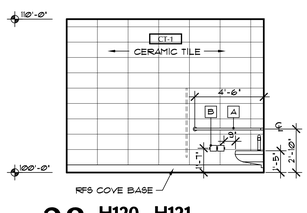
25 STAFF H119 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



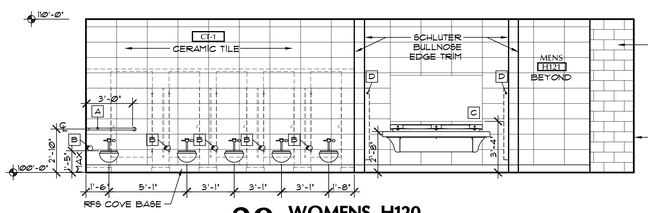
26 JANITOR H118 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



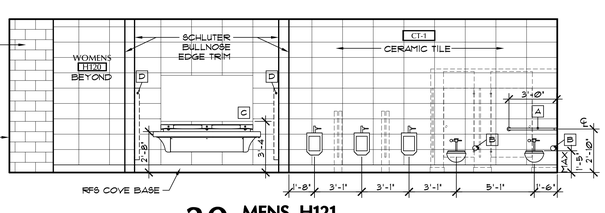
27 WOMENS H120, MEN'S H121 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



28 H120, H121 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



29 WOMENS H120 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"



30 MENS H121 INTERIOR ELEVATION
A7.1 SCALE: 1/4" =1'-0"

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INTERIOR ELEVATIONS

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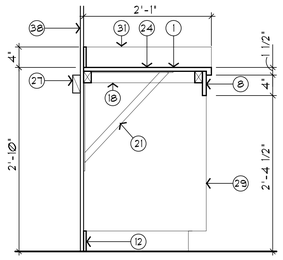
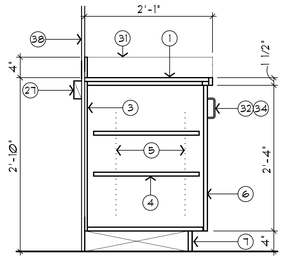
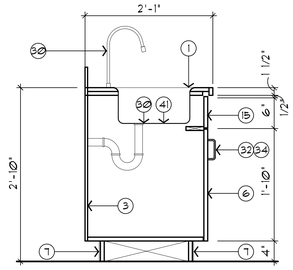


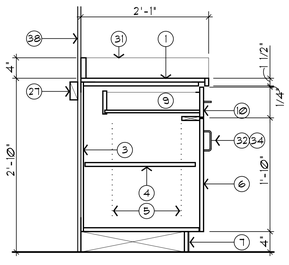
A1 34" WORK SURFACE
A8.0 SCALE: 1"=1'-0"



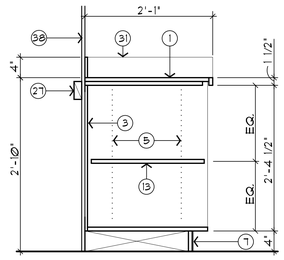
B1/B2 34" DOOR BASE
A8.0 SCALE: 1"=1'-0"



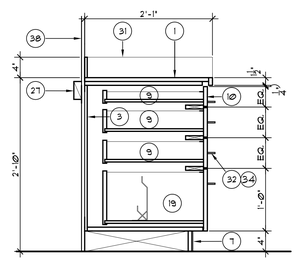
B3/B4 34" SINK BASE
A8.0 SCALE: 1"=1'-0"



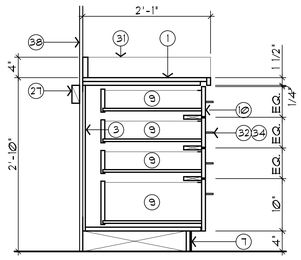
B6/B7 W/ DRAWER 34" DOOR BASE
A8.0 SCALE: 1"=1'-0"



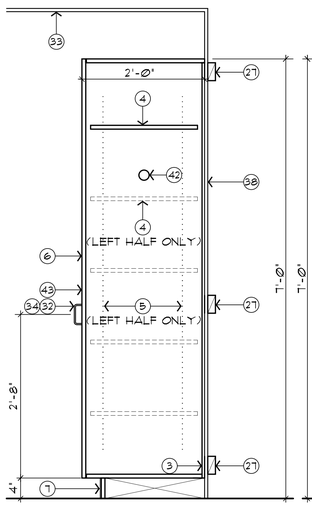
B8 34" OPEN BASE
SCALE: 1"=1'-0"



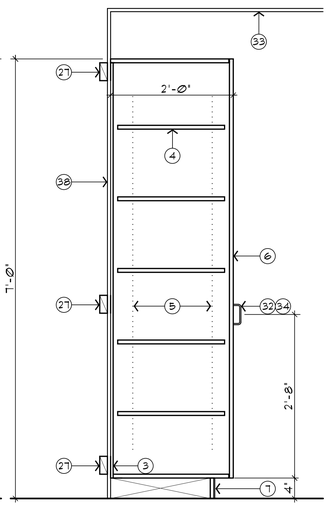
B10 34" (4) DRAWER BASE W/ FILE DRAWER
SCALE: 1"=1'-0"



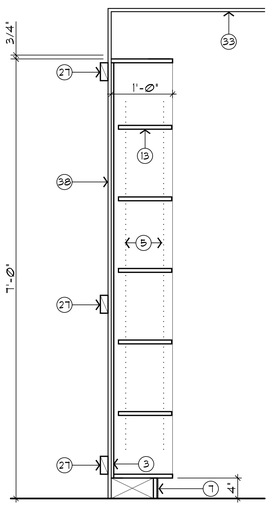
B16 34" (4) DRAWER BASE
A8.0 SCALE: 1"=1'-0"



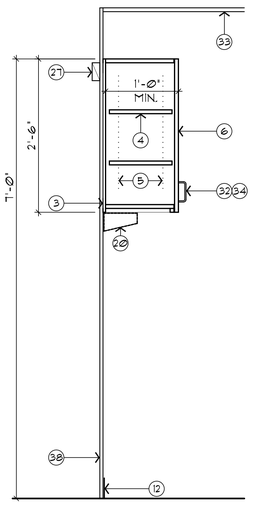
F4C 24" DEEP WARDROBE W/ DOORS
SCALE: 1"=1'-0"



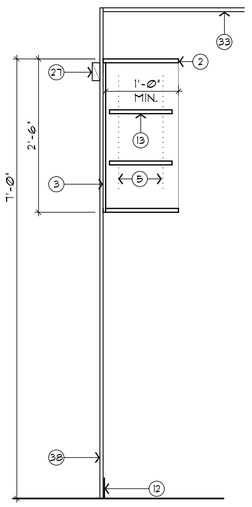
F4 24" DEEP FULL HEIGHT/ ADJ. SHELVES W/ DOORS
SCALE: 1"=1'-0"



F8 12" DEEP FULL HEIGHT W/ ADJ. SHELVES
SCALE: 1"=1'-0"



W1/W2 30" UPPER CABINET
SCALE: 1"=1'-0"



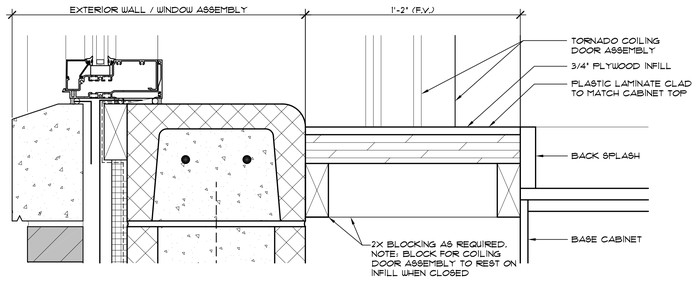
W3 30" UPPER CABINET
SCALE: 1"=1'-0"

KEYNOTES:

1. 3/4" MDF, PLASTIC LAMINATE CLAD (3/4" PLYWOOD WET LOCATIONS)
2. 3/4" PARTICLE BOARD, PLASTIC LAMINATE CLAD ALL EXPOSED SURFACES
3. 1/2" MELAMINE BACK PANEL
4. 3/4" ADJUSTABLE MELAMINE SHELF (PROVIDE 1" ON SPANS GREATER THAN 48") ON PIN SUPPORTS
5. LINE BORE
6. 3/4" PARTICLE BOARD DOORS, PLASTIC LAMINATE CLAD
7. 3/4" CDX TOEKICK, PLASTIC LAMINATE CLAD
8. 3/4" MDF APRON, PLASTIC LAMINATE CLAD
9. DRAWER UNIT, 5/8" MELAMINE SIDES AND BACK WITH 1/4" HARDBOARD BOTTOM
10. 3/4" PARTICLE BOARD DRAWER FRONTS, PLASTIC LAMINATE CLAD
12. SCHEDULED BASE
13. 3/4" PARTICLE BOARD SHELF, PLASTIC LAMINATE CLAD
14. LOCKABLE 3/4" PARTICLE BOARD DOORS, PLASTIC LAMINATE CLAD
15. FIXED 3/4" PARTICLE BOARD PANEL, PLASTIC LAMINATE CLAD, SIZE EQUAL TO FACE OF DRAWER U.N.O.
18. FRAMING MEMBERS
19. FILE DRAWER UNIT
20. LIGHT, RE: ELECTRICAL
21. 1 1/2" SQ. STEEL TUBE SECTION PAINTED SUPPORT @ 24" O.C.
24. PROVIDE CABLE GROMMET THRU COUNTERTOP (FIELD VERIFY LOCATION)
27. 2X4 WOOD BLOCKING, FIRE RETARDENT TREATED (TYP.)
28. 1 1/4" DIA. STEEL ROD
29. PLASTIC LAMINATE END PANEL OR CASEWORK BEYOND
30. PLUMBING FIXTURE, RE: PLUMBING
31. BACK SPLASH AND END SPLASH (WHERE INDICATED ON INTERIOR ELEVATIONS)
32. 4" WIRE PULL, BRUSHED FINISH (TYP.)
33. LINE OF CEILING SYSTEM, REFER TO REFLECTED CEILING PLAN FOR HEIGHT
34. KEYED LOCK
38. LINE OF WALL CONSTRUCTION RE: PLANS
39. SLOPED TOP WITH PLASTIC LAMINATE ON ALL SURFACES
40. STEEL ROD UNDER SINK
41. 1X4 STRIPPING
42. CLOSET ROD
43. CABINET LOCK

GENERAL NOTES:
ALL CASEWORK SHALL HAVE PLASTIC LAMINATE ON ALL EXPOSED SURFACES (W/ MELAMINE INTERIORS) PER AWI STANDARDS. ALL DRAWER SLIDES SHALL HAVE MINIMUM 100# RATING. ALL FILE DRAWERS SHALL BE FITTED FOR LEGAL SIZE FILES.

KEYED LOCK ASSEMBLY ON ALL CABINET DRAWERS AND CABINET DOORS.



01 TORNADO COILING DOOR CABINET INFILL DETAIL
A8.0 SCALE: 3" = 1'-0"

BLEDSOE ARCHITECTS
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NEW CLASSROOM / TORNADO SHELTER ADDITION for
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BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

MILLWORK DETAILS

BPSB PROJECT #26-02

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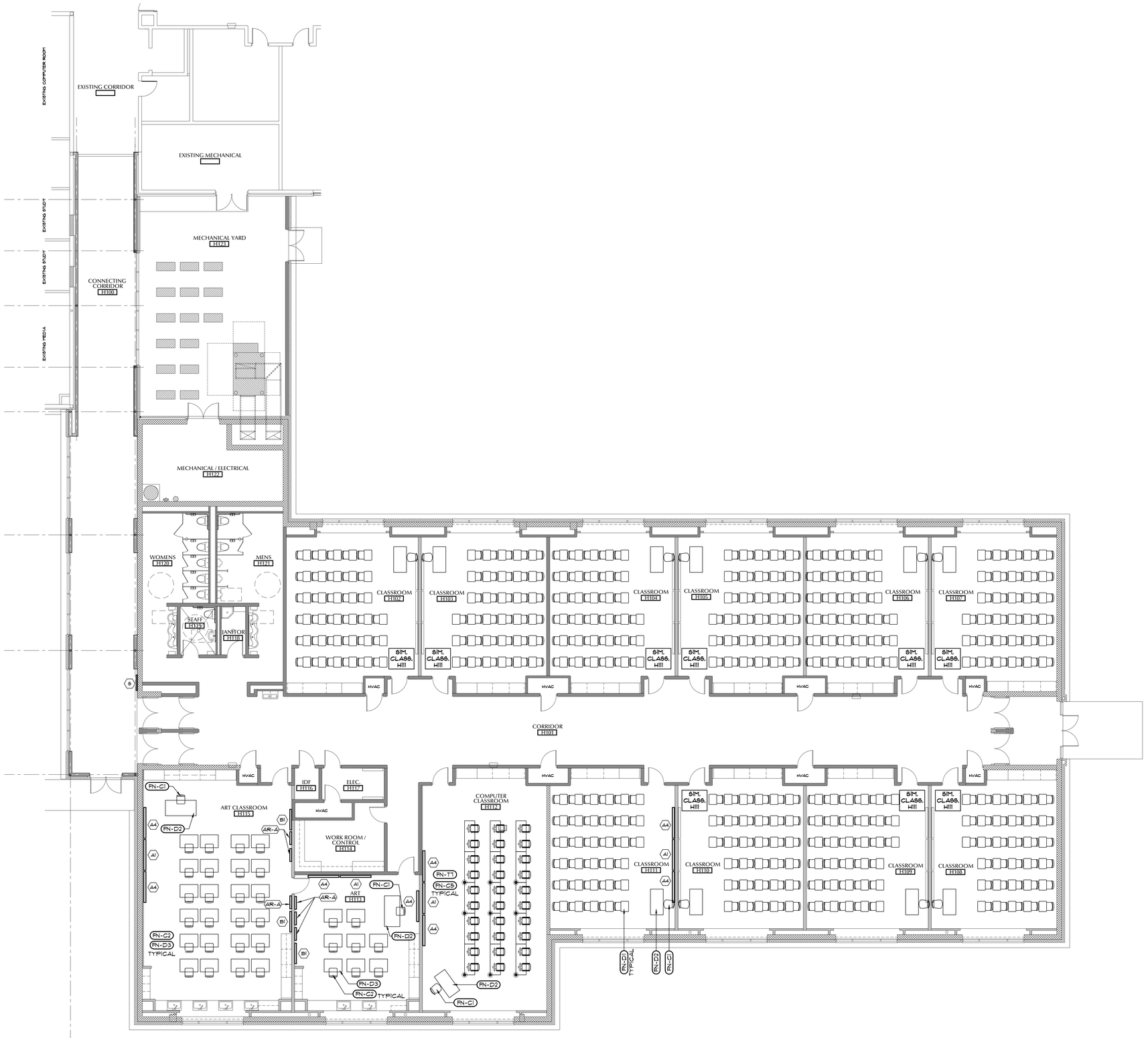

01 FIXTURE AND EQUIPMENT FLOOR PLAN

A9.0 SCALE: 1/8" = 1'-0"

FURNITURE LIST

CHAIRS

SYMBOL	DESCRIPTION	RESPONSIBILITY
FN-C1	INSTRUCTOR CHAIR	O.F.O.I.
FN-C2	STUDENT CHAIR	O.F.O.I.
FN-C5	COMPUTER CHAIR	O.F.O.I.

DESKS

SYMBOL	DESCRIPTION	RESPONSIBILITY
FN-D1	STUDENT CHAIR/ DESK COMBO	O.F.O.I.
FN-D2	INSTRUCTOR DESK	O.F.O.I.
FN-D3	STUDENT DESK	O.F.O.I.

TABLES

SYMBOL	DESCRIPTION	RESPONSIBILITY
FN-T1	COMPUTER TABLE, 32" X 36"	O.F.O.I.

FIXTURE AND EQUIPMENT LIST

SYMBOL	DESCRIPTION	RESPONSIBILITY
A1	PROMETHEAN ACTIVE PANEL TO 86"	O.F.O.I.
A4	MARKER BOARD, 72" WIDE	C.F.C.I.
B1	TACKBOARD, 48" WIDE	C.F.C.I.
5	36"X36" LOCKABLE DISPLAY CASE	C.F.C.I.

ART FIXTURE/ EQUIPMENT LIST

SYMBOL	DESCRIPTION	RESPONSIBILITY
AR-A	WALL DISPLAY CASE	O.F.O.I.

C.F.C.I.- CONTRACTOR FURNISHED, CONTRACTOR INSTALLED

O.F.O.I.- OWNER FURNISHED, OWNER INSTALLED

*NOTE: ALL FIXTURE & WALL HUNG EQUIPMENT TO BE MOUNTED 7'-0" TO TOP.

BLEDSOE ARCHITECTS

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BRYAN THOMAS BLEDSOE No. 32824 STATE OF LOUISIANA REGISTERED ARCHITECT 01-14-26

NEW CLASSROOM / TORNADO SHELTER ADDITION for
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BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

FIXTURE AND EQUIPMENT PLAN

BOSSIER SCHOOLS "Win the Day!"

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JOB NO. 2511

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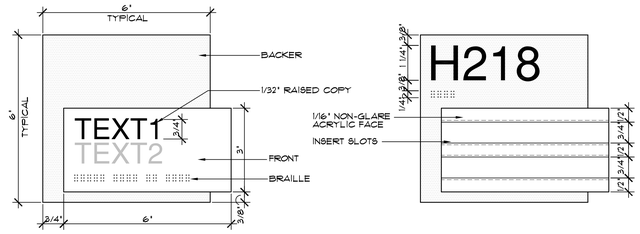
A9.0



SIGN TYPE A

SIGN TYPE B

SIGN TYPE C

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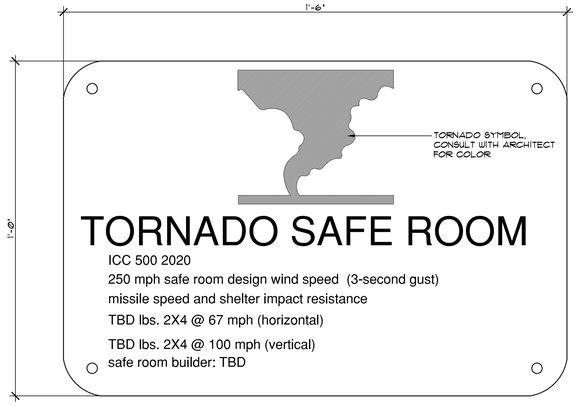
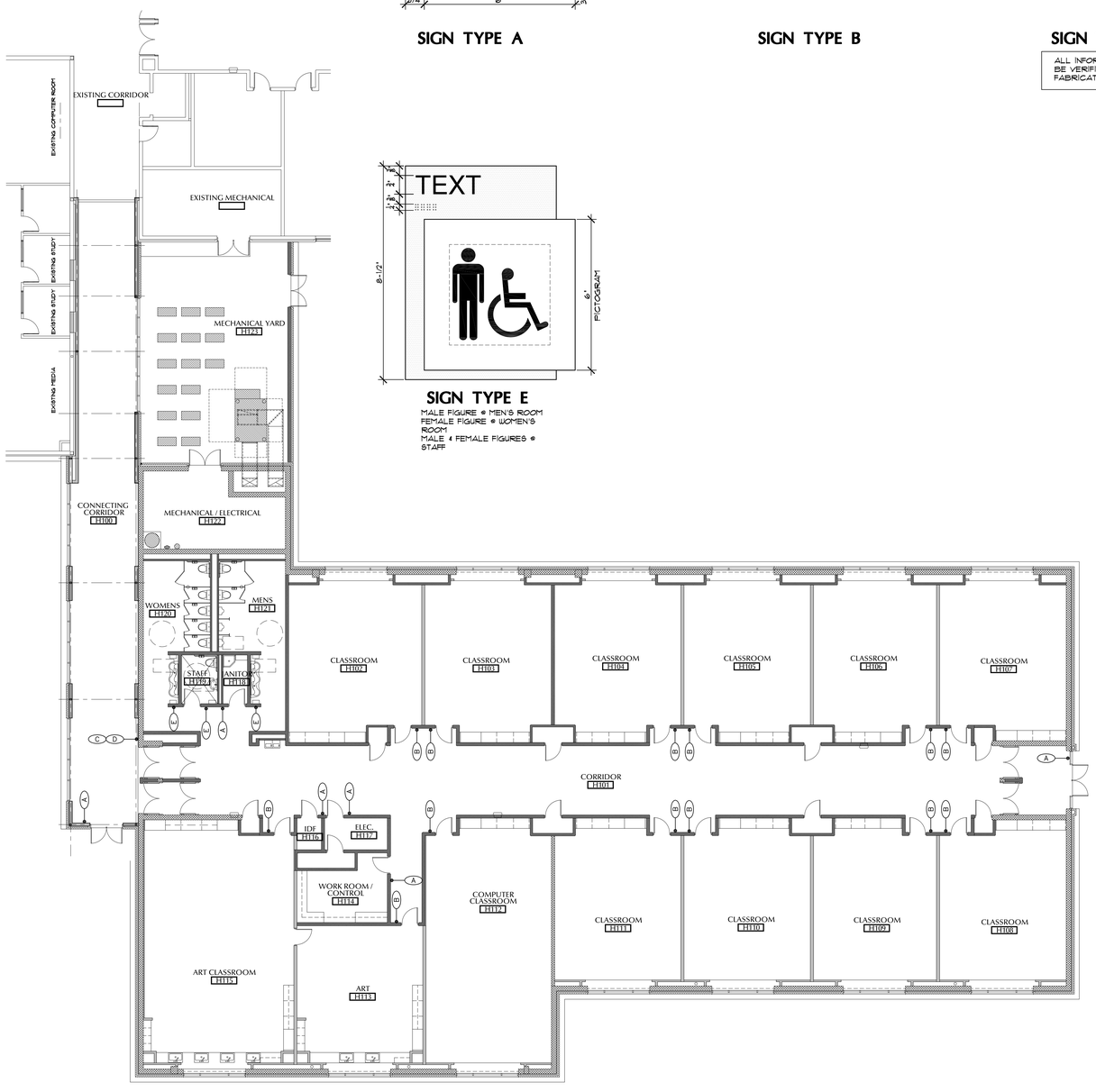


SIGN TYPE D

ALL INFORMATION ON TYPE 'D' SIGN TO BE VERIFIED WITH ARCHITECT BEFORE FABRICATION OF SIGNAGE.

SIGN TYPE E

MALE FIGURE @ MEN'S ROOM
FEMALE FIGURE @ WOMEN'S ROOM
MALE & FEMALE FIGURES @ STAFF



01 BUILDING "H" SIGNAGE FLOOR PLAN

ID1.1 SCALE: 3/32" = 1'-0"

BLEDSOE ARCHITECTS

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SIGNAGE PLAN - BUILDING "H"

BPSB PROJECT #26-02

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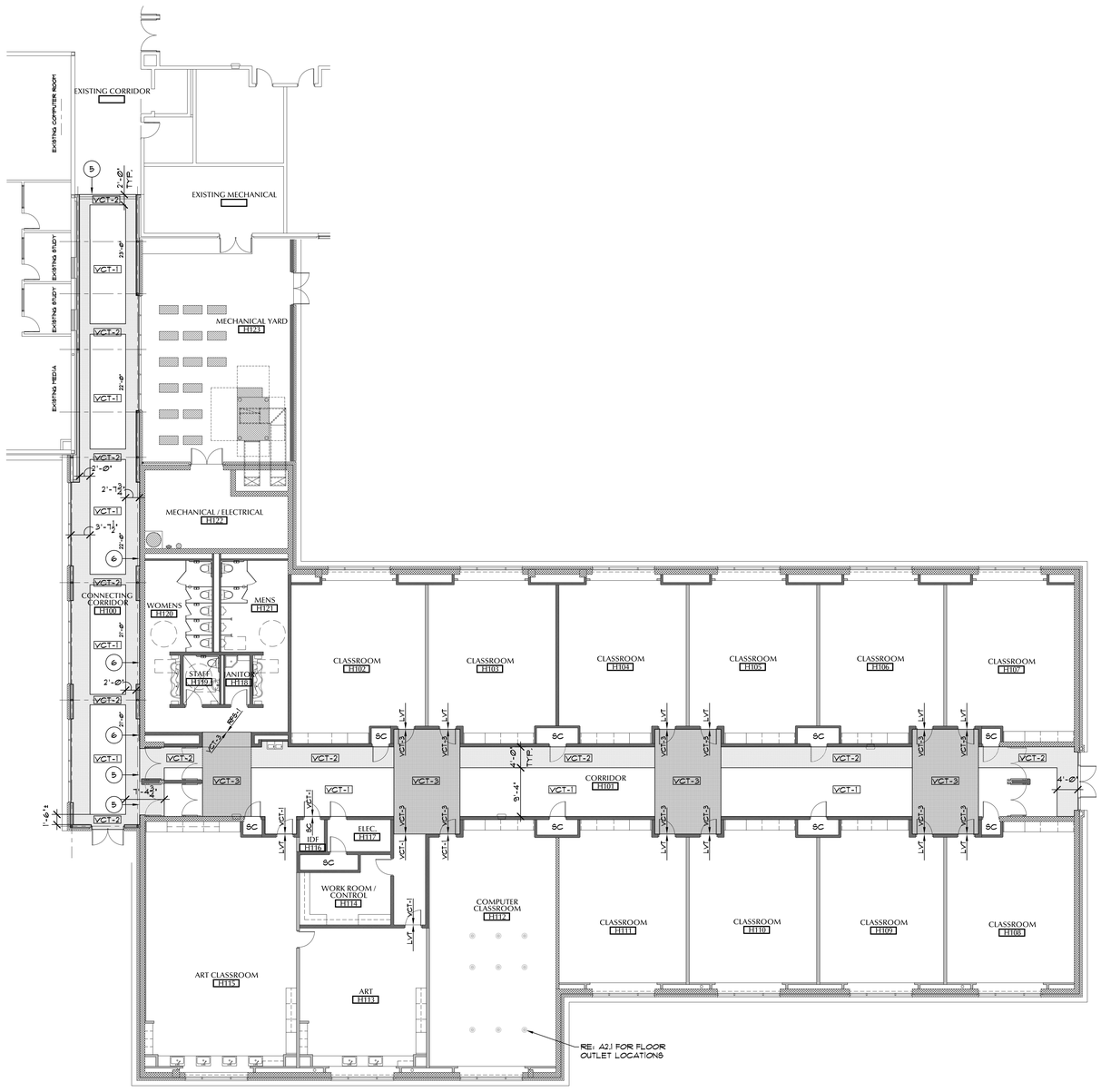
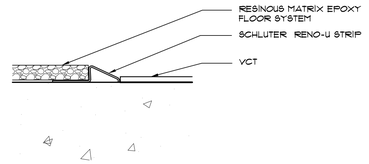
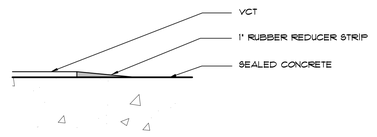
ID1.1



01 BUILDING "H" FLOOR PATTERN PLAN
ID2.1 SCALE: 3/32" = 1'-0"



01 RFS - VCT TRANSITION DETAIL
ID2.1 NTS



02 VCT - PSC TRANSITION DETAIL
ID2.1 NTS

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NEW CLASSROOM / TORNADO SHELTER ADDITION for
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BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

FLOOR PATTERN PLAN - BUILDING "H"

BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

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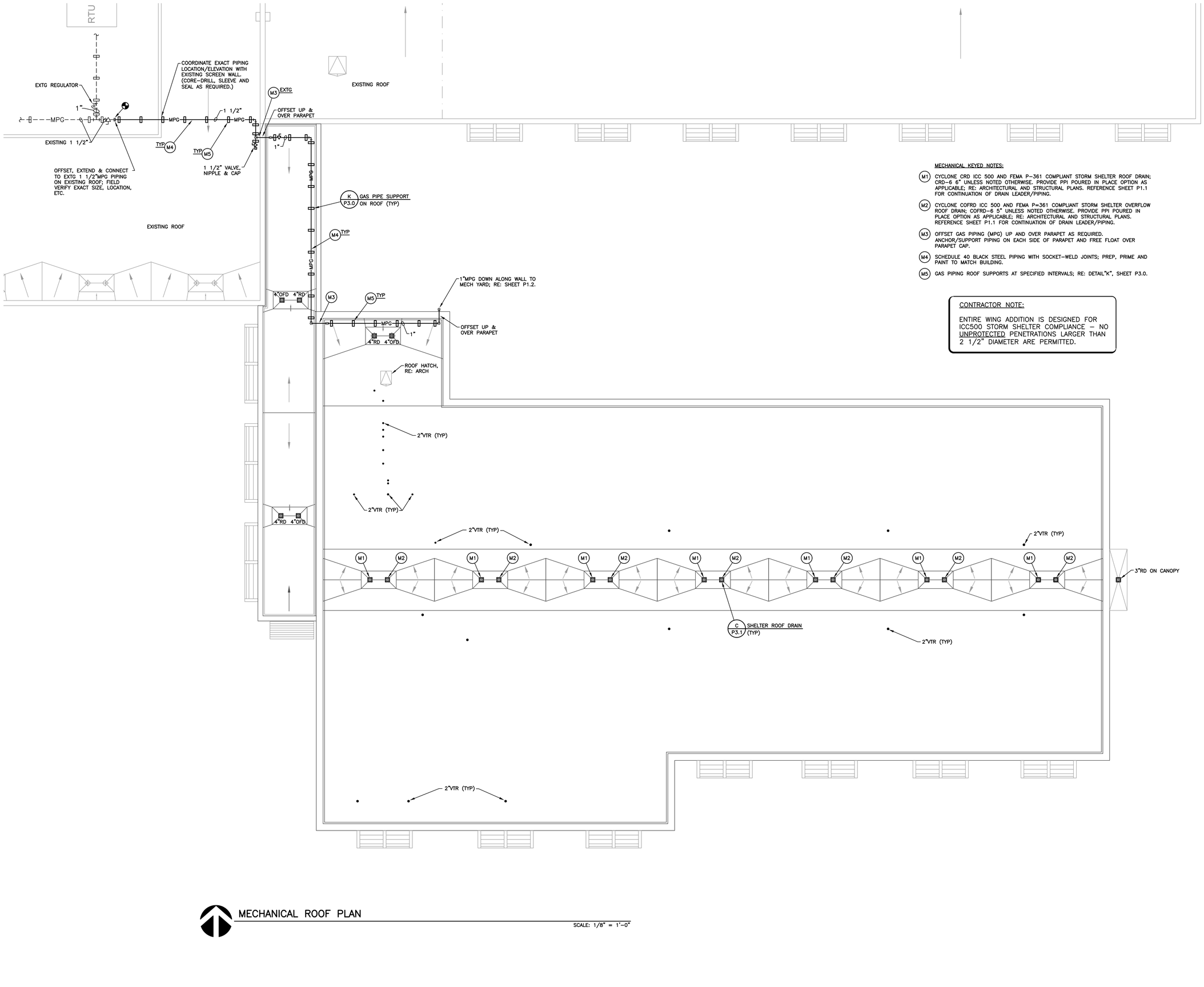
SHEET
ID2.1



MECHANICAL KEYED NOTES:

M1 CYCLONE CRD ICC 500 AND FEMA P-361 COMPLIANT STORM SHELTER ROOF DRAIN; CRD-6 6" UNLESS NOTED OTHERWISE. PROVIDE PPI POURED IN PLACE OPTION AS APPLICABLE; RE: ARCHITECTURAL AND STRUCTURAL PLANS. REFERENCE SHEET P1.1 FOR CONTINUATION OF DRAIN LEADER/PIPING.

M2 CYCLONE COFRD ICC 500 AND FEMA P=361 COMPLIANT STORM SHELTER OVERFLOW ROOF DRAIN; COFRD-6 5" UNLESS NOTED OTHERWISE. PROVIDE PPI POURED IN PLACE OPTION AS APPLICABLE; RE: ARCHITECTURAL AND STRUCTURAL PLANS. REFERENCE SHEET P1.1 FOR CONTINUATION OF DRAIN LEADER/PIPING.

M3 OFFSET GAS PIPING (MPG) UP AND OVER PARAPET AS REQUIRED. ANCHOR/SUPPORT PIPING ON EACH SIDE OF PARAPET AND FREE FLOAT OVER PARAPET CAP.

M4 SCHEDULE 40 BLACK STEEL PIPING WITH SOCKET-WELD JOINTS; PREP, PRIME AND PAINT TO MATCH BUILDING.

M5 GAS PIPING ROOF SUPPORTS AT SPECIFIED INTERVALS; RE: DETAIL"K", SHEET P3.0.

CONTRACTOR NOTE:

ENTIRE WING ADDITION IS DESIGNED FOR ICC500 STORM SHELTER COMPLIANCE – NO UNPROTECTED PENETRATIONS LARGER THAN 2 1/2" DIAMETER ARE PERMITTED.

MECHANICAL ROOF PLAN

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

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5-188-1786-001

NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

MECHANICAL ROOF PLAN

BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

14 JAN 2026

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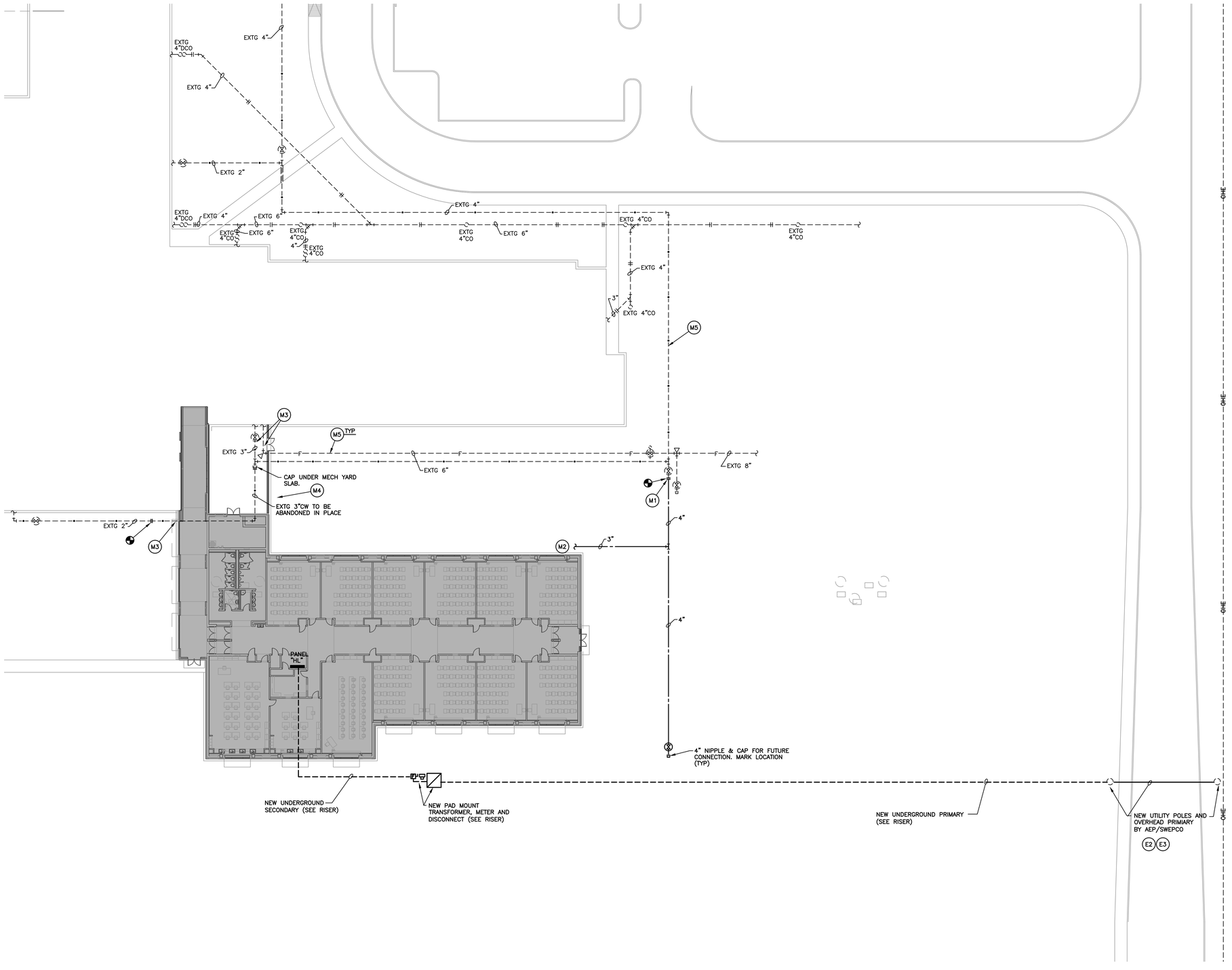

MECHANICAL & ELECTRICAL SITE PLAN

SCALE: 1" = 20'-0"

ELECTRICAL NOTES:

(E1) ALL WORK SHALL BE IN ACCORDANCE WITH THE MOST RECENT NATIONAL ELECTRICAL CODE AND ALL LOCAL AND STATE SUPPLEMENTS.

(E2) CONTRACTOR SHALL COORDINATE ELECTRICAL SERVICE WITH DUSTIN MORGAN, AEP/SWEPCO (DMORGAN@AEP.COM) PRIOR TO CONSTRUCTION AND EXCAVATION. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL FEES AND COSTS ASSOCIATED WITH PROVIDING SERVICES AND ANY UP FRONT CHARGES REQUIRED.

(E3) CONTRACTOR SHALL COORDINATE LOCATIONS OF SITE LIGHTING POLES WITH ALL UNDERGROUND UTILITIES WITH GENERAL CONTRACTOR AND LOCAL UTILITY CO. PRIOR TO ROUGH-IN.

MECHANICAL KEYED NOTES:

(M1) OFFSET, EXTEND AND CONNECT TO EXISTING 4" COLD WATER MAIN; EXCAVATE AND FIELD VERIFY EXACT LOCATION AS REQUIRED.

(M2) REFERENCE PLUMBING PLAN SHEET P1.2 FOR CONTINUATION.

(M3) REFERENCE PLUMBING PLAN SHEET P1.2 FOR NEW CONNECTIONS AT EXISTING WATER SERVICE PIPING AND REQUIRED ACCESS TRENCH UNDER MECHANICAL YARD PAVING.

(M4) REFERENCE PLUMBING PLAN SHEET P1.1 FOR NEW AND EXISTING STORM/ROOF DRAIN PIPING IN THIS AREA.

(M5) CONTRACTOR SHALL FIELD VERIFY EXACT SIZE, LOCATION, SERVICE, ETC. OF EXISTING UTILITY PIPING IN AND AROUND NEW CONSTRUCTION ZONE PRIOR TO WORK OF ANY KIND. NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF SIGNIFICANT DISCREPANCIES DETRIMENTAL TO SCOPE OF WORK.

CONTRACTOR NOTE:

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MECHANICAL & ELECTRICAL SITE PLAN

BPSB PROJECT #26-02

BOSSIER SCHOOLS "Win the Day!"

JOB NO. 2511

REVISIONS:

14 JAN 2026

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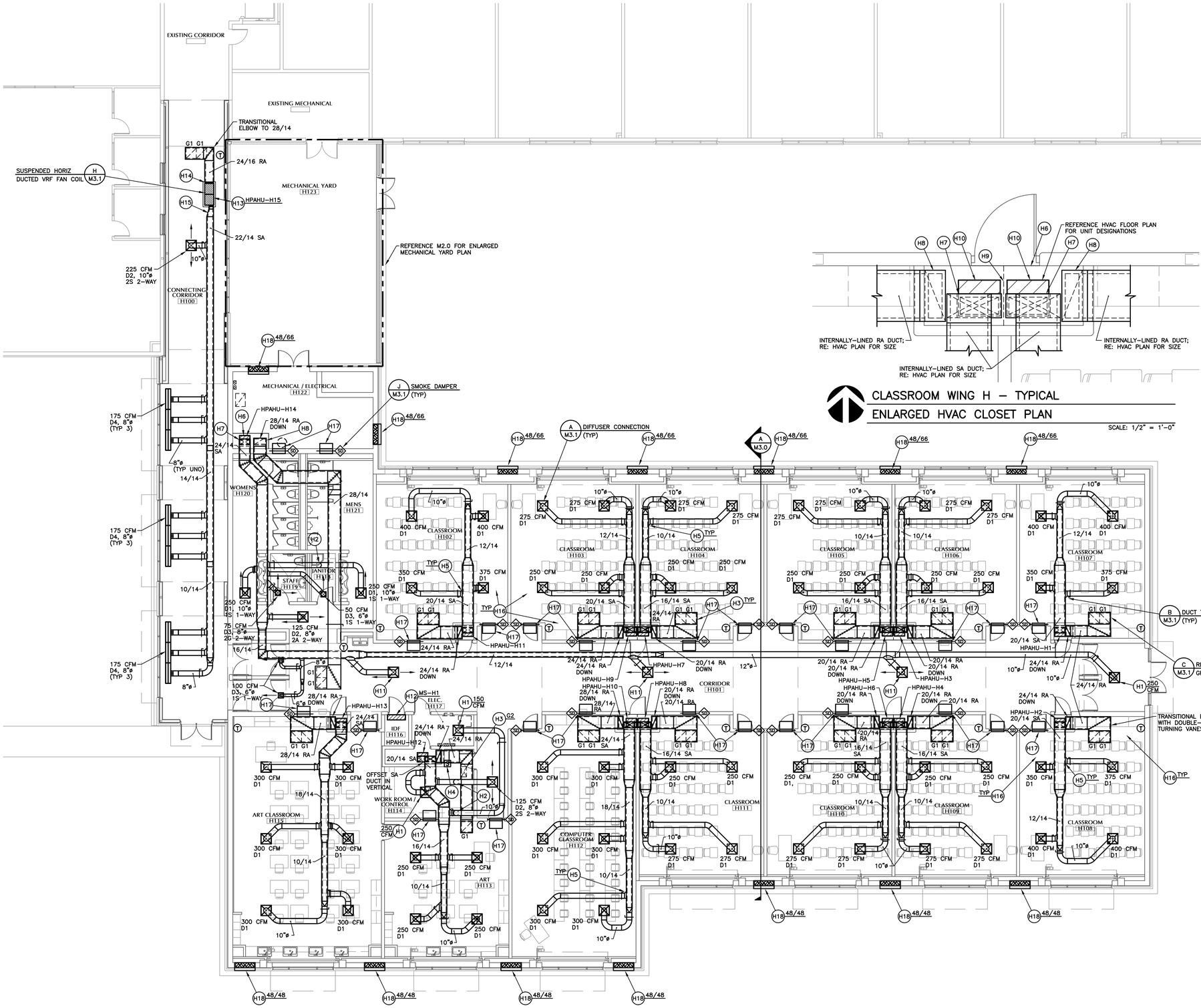

HVAC PLAN

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

CLASSROOM WING H – TYPICAL ENLARGED HVAC CLOSET PLAN

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

HVAC KEYED NOTES:

H1 ACUTHERM THERMAFUSER TF-HC ONLY (NO SUBSTITUTIONS) THERMALLY POWERED VAV MODULE WITH INDIVIDUAL HEATING AND COOLING THERMAL ELEMENTS; 12" DIAMETER NECK UNLESS NOTED OTHERWISE; AIRFLOW AS INDICATED. SET THERMAL ELEMENTS FOR 72 DEGREE COOLING AND 70 DEGREE HEATING.

H2 OFFSET UP AND OVER RETURN AIR DUCT THROUGH WEB OF JOISTS.

H3 PROVIDE FULL-SIZE INTERNALLY-LINED DUCT DROP TO GRILLE. PREP, PRIME AND PAINT ALL EXPOSED INTERIOR SURFACES FLAT BLACK.

H4 STORM LOUVER DAMPER CONTROL SWITCH INTERLOCKED WITH ALL STORM DAMPERS SUCH THAT LOUVERS OPEN WHEN ACTIVATED, AND REMAIN OPEN FOR 2 HOURS (ADJUSTABLE). SWITCH SHALL BE EQUAL TO INTERMATIC E1235.

H5 45 DEGREE LO-LOSS BRANCH DUCT TAKE-OFF WITH DUCT EXTENSION AND MANUAL VOLUME DAMPER WITH NYLON END BEARINGS AS DETAILED; DUCT SIZE SAME AS DIFFUSER NECK.

H6 INSTALL VERTICAL AIR HANDLING UNIT ON 18" TALL FREE-STANDING AND SELF-SUPPORTING RETURN AIR PLENUM PLATFORM WITH INTERNAL ANGLE-IRON FRAME, FULLY ENCAPSULATED IN 14 GAUGE GALVANIZED STEEL WITH WELDED AIR-TIGHT JOINTS, AND INTERNALLY-LINED WITH 1" THICK ACOUSTIC DUCT LINER; SEAL ALL JOINTS/SEAMS AIR TIGHT.

H7 TRANSITION IN VERTICAL FROM AIR HANDLING UNIT SUPPLY AIR DISCHARGE CONNECTION TO INTERNALLY-LINED DUCT SIZE INDICATED; PROVIDE FLEXIBLE DUCT CONNECTION AT UNIT. OFFSET DUCT RISER IN VERTICAL AS REQUIRED TO AVOID CONFLICT WITH OVERHEAD STRUCTURE/FRAMING (RE:STRUCTURAL PLANS).

H8 INTERNALLY-LINED RETURN AIR TRUNK DOWN ALONG WALL INTO RETURN AIR PLENUM PLATFORM. PROVIDE WALL BRACKETS/DUCT SUPPORTS AT MAXIMUM 4'-0" SPACING. SEAL CONNECTION AT PLENUM PLATFORM AIR TIGHT.

H9 PROVIDE 14 GAUGE GALVANIZED STEEL SELF-SUPPORTING PARTITION IN RETURN AIR PLENUM PLATFORM, LINED WITH 1" THICK ACOUSTIC DUCT LINER EACH SIDE, SEALED AIR TIGHT ALL AROUND, SEPARATING PLENUM PLATFORM AT EACH AIR HANDLING UNIT AND ISOLATING EACH UNIT RETURN AIR PATH.

H10 EXTEND 1" TYPE "L" HARD COPPER CONDENSATE DRAIN PIPING FROM EACH VERTICAL HEAT PUMP AIR HANDLING UNIT (HPAHU) AND TERMINATE OPEN-SIGHT INTO HUB DRAIN; OFFSET TO WALL AS REQUIRED AND PROVIDE 2-HOLE COPPER PIPE STRAPS ON 24" CENTERS AND AND AT EACH CHANGE IN DIRECTION; RE: SHEET M1.2. REFER TO PLUMBING WASTE & VENT PLAN FOR HUB DRAIN LOCATIONS.

H11 200 CFM D2, 10"ø NECK, 2A 2-WAY THROW.

H12 WALL-MOUNT MINI-SPLIT FAN COIL UNIT ON WALL ABOVE DOOR AT APPROXIMATELY 8'-0"AFF; UNIT DESIGNATION AS NOTED. FIELD COORDINATE EXACT ELEVATION AND LOCATION WITH DOOR FACING AND WALL FRAMING AND DATA/SERVER EQUIOPMENT, WIRING AND COMPONENTS. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS. EXTEND 3/4" TYPE "L" COPPER TUBING FROM INTEGRAL CONDENSATE PUMP, OFFSET INTO WALL AND RISE BETWEEN WALL FRAMING TO ABOVE CEILING. INSTALL REFRIGERANT PIPING AND CONDENSATE PIPING CONCEALED IN WALL OR ENCLOSED IN PAINTED RIGID METAL CONDUIT.

H13 SUSPEND HORIZONTAL HEAT PUMP AIR HANDLING UNIT (HPAHU) FROM ROOF STRUCTURE WITH ALL THREAD RODS AND HANGING VIBRATION ISOLATORS TO CHANNEL/UNISTRUT FRAME; SPAN ROOF FRAMING WITH STEEL CHANNELS AS REQUIRED. PROVIDE 18 GAUGE DRAIN PAN WITH 24V FLOAT SWITCH AS DETAILED. FIELD COORDINATE REQUIRED ELEVATION OF DISCHARGE/INTAKE DUCTWORK WITH ROTATING PHOTO ENCLOSURE. PROVIDE CANTILEVERED SUPPORTS OFF WALL TO MITIGATE UNIT MOVEMENT. REFERENCE DETAIL "H", SHEET M3.1.

H14 FULL-SIZE INTERNALLY-LINED RETURN AIR DUCT FROM HEAT PUMP AIR HANDLING UNIT RETURN AIR INTAKE DUCT CONNECTION SIZE; EXTEND A MINIMUM OF 36" AS REQUIRED FOR RETURN AIR DUCT CONNECTION. PROVIDE FLEXIBLE DUCT CONNECTION.

H15 FULL-SIZE INTERNALLY-LINED SUPPLY AIR DUCT FROM HEAT PUMP AIR HANDLING UNIT SUPPLY AIR DISCHARGE CONNECTION; OFFSET AND TRANSITION TO SUPPLY AIR DUCT SIZE INDICATED. PROVIDE FLEXIBLE DUCT CONNECTION.

H16 REFERENCE SHEET M1.2 FOR OUTSIDE AIR/EXHAUST DUCT SYSTEMS EXHAUST RELIEF/TRANSFER DUCTS, AND HVAC PIPING (REFRIGERANT AND CONDENSATE). COORDINATE ALL DUCTWORK, AIR DEVICES, ETC. ACCORDINGLY.

H17 PROVIDE 24/30 SMOKE DAMPER (SD) WITH 24V ACTUATOR AND EXTENDED SLEEVE IN STORM SHELTER VENTILATION TRANSFER OPENING; CONNECT ACTUATOR TO FIRE ALARM CONTRACTOR PROVIDED SMOKE DETECTOR AS REQUIRED. PROVIDE EXTENDED SLEEVE SUCH THAT ACTUATOR IS LOCATED ABOVE CORRIDOR CEILING FOR ACCESS/SERVICE.

H18 GREENHECK MODEL IDC-45 LOW LEAKAGE THERMALLY INSULATED POSITIVE SHUT-OFF DAMPER WITH EXTRUDED ALUMINUM AIR FOIL BLADES, THERMALLY BROKEN FRAME AND BLADES, OPPOSED BLADES, 316SS LINKAGE AND AXLE, FLANGE MOUNTING, SILICONE BLADE AND JAMB SEALS, DUAL AXLE BEARINGS AND 115 VOLT ACTUATOR; 48/48 UNLESS NOTED OTHERWISE. DAMPER SHALL POWER OPEN VIA TIMER CONTROL SWITCH AND SPRING CLOSED UPON LOSS OF POWER. REFERENCE ARCHITECTURAL PLANS FOR EXACT LOCATION AND ELEVATION. SECURE TO WALL AT EACH STORM SHELTER VENTILATION LOUVER AS REQUIRED; RE: ARCH. CONNECT DAMPER ACTUATOR POWER SUPPLY TO INVERTER; RE: ELEC.

CONTRACTOR NOTE:

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HVAC PLAN

BPSB BOSSIER SCHOOLS "Win the Day!"

BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

14 JAN 2026

SHEET

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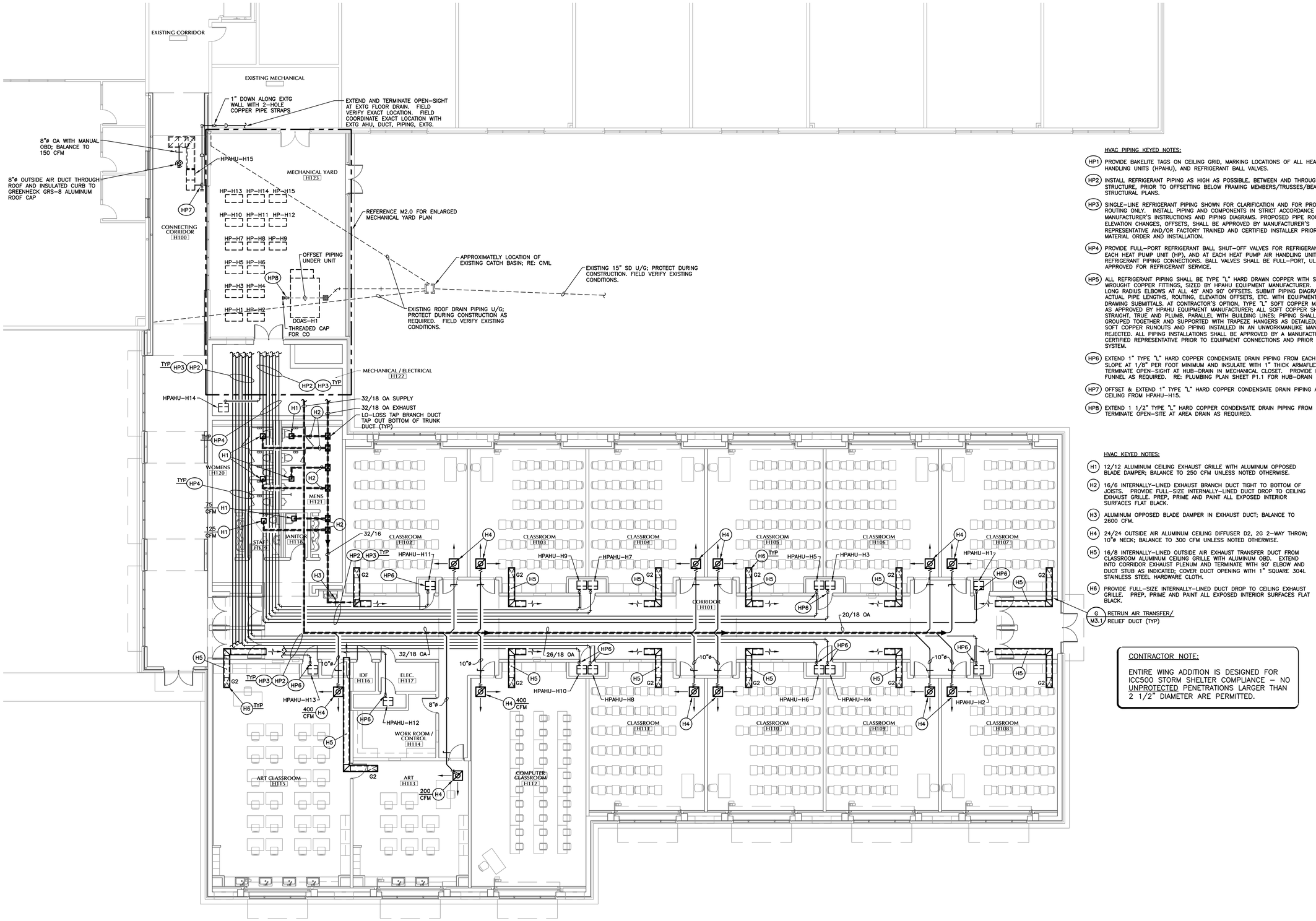

OUTSIDE AIR SUPPLY/EXHAUST, HVAC PIPING PLAN

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

HVAC PIPING KEYED NOTES:

HP1 PROVIDE BAKELITE TAGS ON CEILING GRID, MARKING LOCATIONS OF ALL HEAT PUMP AIR HANDLING UNITS (HPAHU), AND REFRIGERANT BALL VALVES.

HP2 INSTALL REFRIGERANT PIPING AS HIGH AS POSSIBLE, BETWEEN AND THROUGH STRUCTURE, PRIOR TO OFFSETTING BELOW FRAMING MEMBERS/TRUSSES/BEAMS. RE: STRUCTURAL PLANS.

HP3 SINGLE-LINE REFRIGERANT PIPING SHOWN FOR CLARIFICATION AND FOR PROPOSED ROUTING ONLY. INSTALL PIPING AND COMPONENTS IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND PIPING DIAGRAMS. PROPOSED PIPE ROUTING WITH ELEVATION CHANGES, OFFSETS, SHALL BE APPROVED BY MANUFACTURER'S REPRESENTATIVE AND/OR FACTORY TRAINED AND CERTIFIED INSTALLER PRIOR TO MATERIAL ORDER AND INSTALLATION.

HP4 PROVIDE FULL-PORT REFRIGERANT BALL SHUT-OFF VALVES FOR REFRIGERANT PIPING AT EACH HEAT PUMP UNIT (HP), AND AT EACH HEAT PUMP AIR HANDLING UNIT (HPAHU) REFRIGERANT PIPING CONNECTIONS. BALL VALVES SHALL BE FULL-PORT, UL LISTED AND APPROVED FOR REFRIGERANT SERVICE.

HP5 ALL REFRIGERANT PIPING SHALL BE TYPE "L" HARD DRAWN COPPER WITH SOLDER-JOINT WROUGHT COPPER FITTINGS, SIZED BY HPAHU EQUIPMENT MANUFACTURER. PROVIDE LONG RADIUS ELBOWS AT ALL 45° AND 90° OFFSETS. SUBMIT PIPING DIAGRAMS WITH ACTUAL PIPE LENGTHS, ROUTING, ELEVATION OFFSETS, ETC. WITH EQUIPMENT SHOP DRAWING SUBMITTALS. AT CONTRACTOR'S OPTION, TYPE "L" SOFT COPPER MAY BE USED AS APPROVED BY HPAHU EQUIPMENT MANUFACTURER; ALL SOFT COPPER SHALL BE RUN STRAIGHT, TRUE AND PLUMB, PARALLEL WITH BUILDING LINES; PIPING SHALL BE GROUPED TOGETHER AND SUPPORTED WITH TRAPEZE HANGERS AS DETAILED; UNSIGHTLY SOFT COPPER RUNOUTS AND PIPING INSTALLED IN AN UNWORKMANLIKE MANNER WILL BE REJECTED. ALL PIPING INSTALLATIONS SHALL BE APPROVED BY A MANUFACTURER'S CERTIFIED REPRESENTATIVE PRIOR TO EQUIPMENT CONNECTIONS AND PRIOR TO CHARGING SYSTEM.

HP6 EXTEND 1" TYPE "L" HARD COPPER CONDENSATE DRAIN PIPING FROM EACH HPAHU UNIT. SLOPE AT 1/8" PER FOOT MINIMUM AND INSULATE WITH 1" THICK ARMAFLEX. TERMINATE OPEN-SIGHT AT HUB-DRAIN IN MECHANICAL CLOSET. PROVIDE ELONGATED FUNNEL AS REQUIRED. RE: PLUMBING PLAN SHEET P1.1 FOR HUB-DRAIN LOCATIONS.

HP7 OFFSET & EXTEND 1" TYPE "L" HARD COPPER CONDENSATE DRAIN PIPING ABOVE CEILING FROM HPAHU-H15.

HP8 EXTEND 1 1/2" TYPE "L" HARD COPPER CONDENSATE DRAIN PIPING FROM DOAS-H1; TERMINATE OPEN-SITE AT AREA DRAIN AS REQUIRED.

HVAC KEYED NOTES:

H1 12/12 ALUMINUM CEILING EXHAUST GRILLE WITH ALUMINUM OPPOSED BLADE DAMPER; BALANCE TO 250 CFM UNLESS NOTED OTHERWISE.

H2 16/6 INTERNALLY-LINED EXHAUST BRANCH DUCT TIGHT TO BOTTOM OF JOISTS. PROVIDE FULL-SIZE INTERNALLY-LINED DUCT DROP TO CEILING EXHAUST GRILLE. PREP, PRIME AND PAINT ALL EXPOSED INTERIOR SURFACES FLAT BLACK.

H3 ALUMINUM OPPOSED BLADE DAMPER IN EXHAUST DUCT; BALANCE TO 2600 CFM.

H4 24/24 OUTSIDE AIR ALUMINUM CEILING DIFFUSER D2, 2G 2-WAY THROW; 10"ø NECK; BALANCE TO 300 CFM UNLESS NOTED OTHERWISE.

H5 16/8 INTERNALLY-LINED OUTSIDE AIR EXHAUST TRANSFER DUCT FROM CLASSROOM ALUMINUM CEILING GRILLE WITH ALUMINUM OBD. EXTEND INTO CORRIDOR EXHAUST PLENUM AND TERMINATE WITH 90° ELBOW AND DUCT STUB AS INDICATED; COVER DUCT OPENING WITH 1" SQUARE 304L STAINLESS STEEL HARDWARE CLOTH.

H6 PROVIDE FULL-SIZE INTERNALLY-LINED DUCT DROP TO CEILING EXHAUST GRILLE. PREP, PRIME AND PAINT ALL EXPOSED INTERIOR SURFACES FLAT BLACK.

G RETRUN AIR TRANSFER/ RELIEF DUCT (TYP)

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OUTSIDE AIR SUPPLY/EXHAUST, HVAC PIING PLAN

BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

14 JAN 2026

SHEET

M1.2

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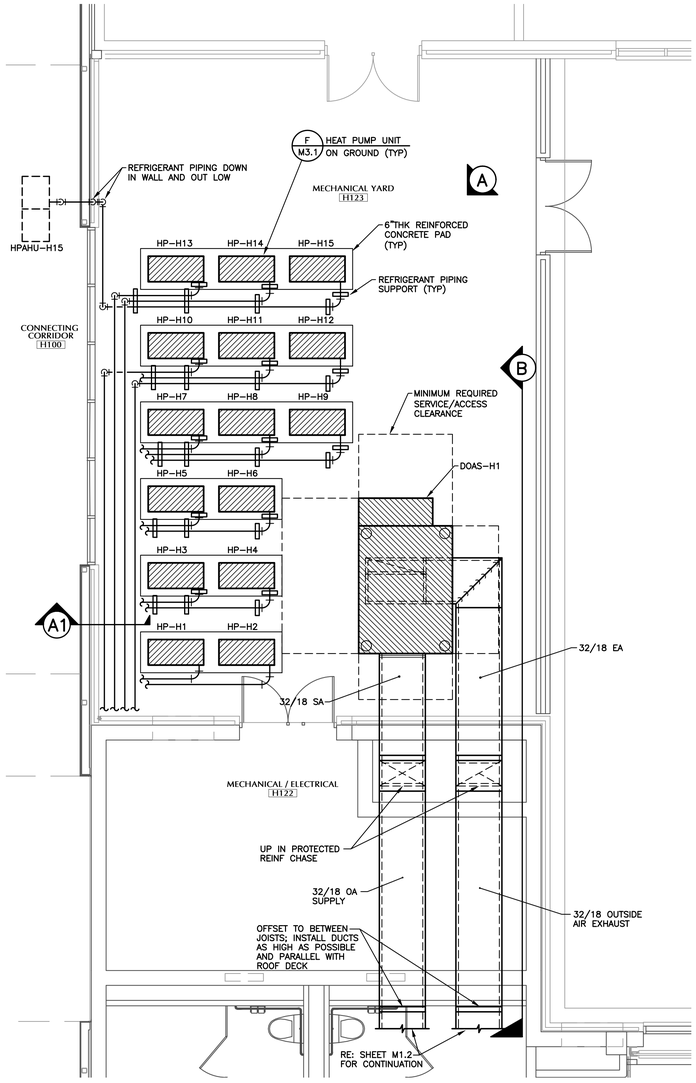
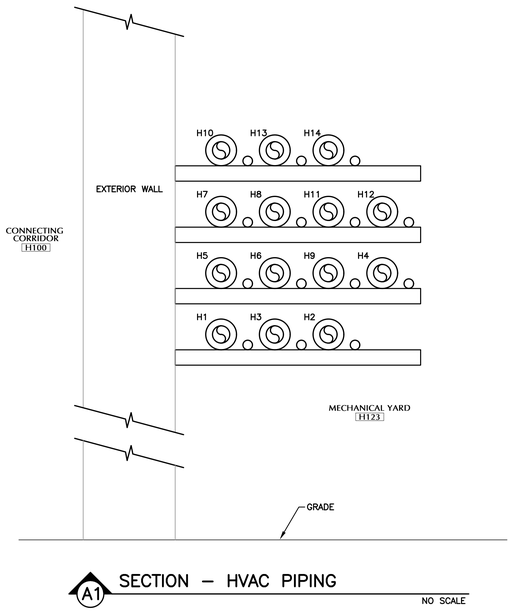


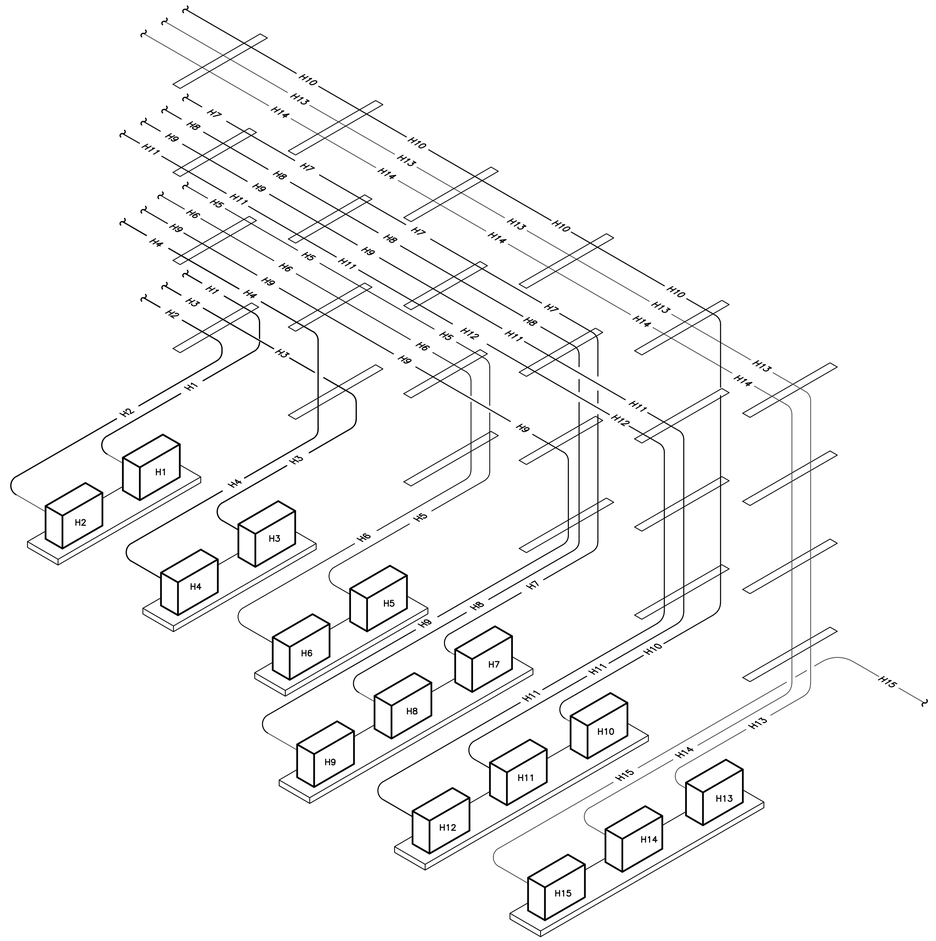
ENLARGED MECHANICAL YARD PLAN

SCALE: 1/4" = 1'–0"



A1 SECTION – HVAC PIPING

NO SCALE



A MECHANICAL YARD REFRIGERANT PIPING SCHEMATIC

NOTE: SINGLE–LINE REFRIGERANT PIPING SHOWN FOR CLARITY; NOT TO SCALE NO SCALE

CONTRACTOR NOTE:

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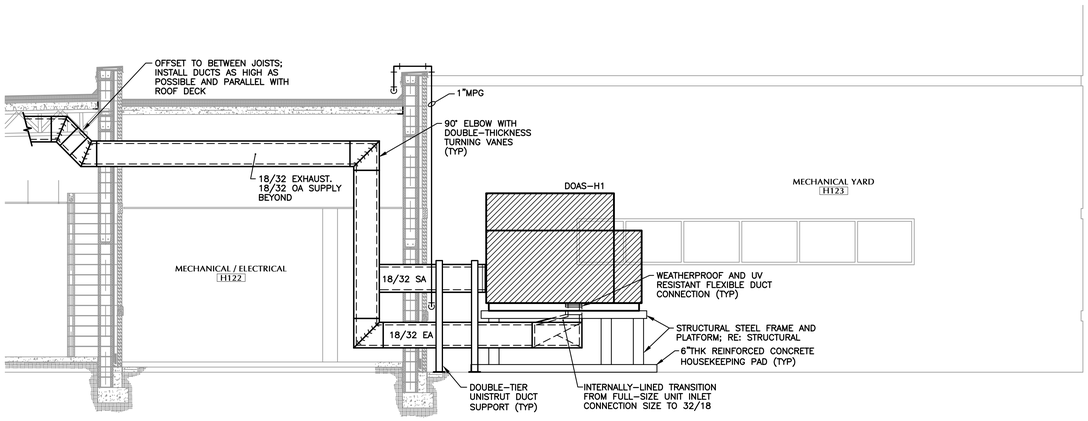
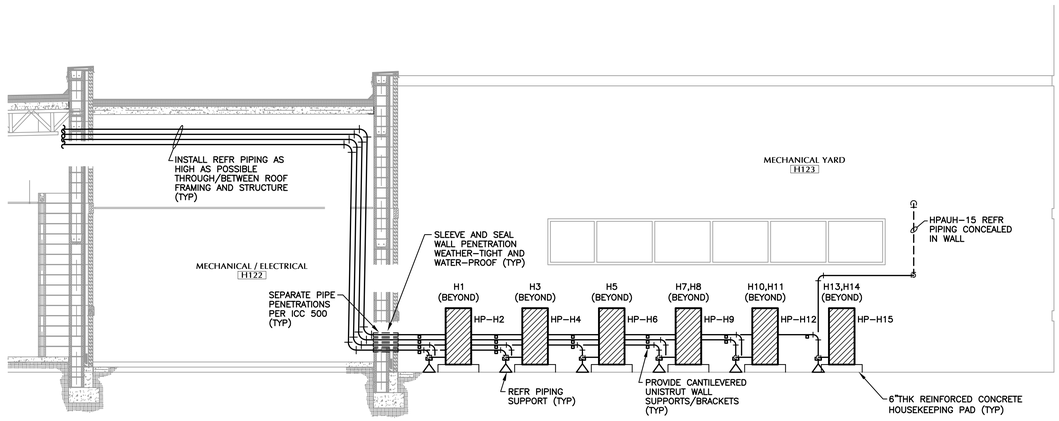


SECTION – DOAS–H1

SCALE: 1/4" = 1'–0"



SECTION – HVAC PIPING

SCALE: 1/4" = 1'–0"

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MECHANICAL YARD PLAN, SECTIONS & PIPING SCHEMATIC

BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

14 JAN 2026

SHEET

M2.0

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HEAT RECOVERY DEDICATED OUTSIDE AIR UNIT SCHEDULE (DOAS)

DOAS NO.	EVAPORATOR DATA								COMPRESSOR				FILTERS		ELECTRICAL		
	CFM	FAN H.P.	EXT. S.P.	TOTAL S.P.	E.A.T. (DB/WB)	L.A.T. (DB/WB)	TOT. CAP. (MBH)	SENS. CAP. (MBH)	STAGES	QTY	POWER (KW)	REFRIGERANT	TYPE	FACE AREA (FT^2)	EFFICIENCY	VOLTAGE/HZ /PHASE	MCA (A)	MROPD (A)
H1	4000	4.4	1.5"	3.43"	81.4/70.1	54.3/54.3	191.9	111.8	MODULATING	1	12.29	R32	INVERTER SCROLL	9.0	30% 2" MERV 8	208/60/3	113.5	175

DOAS NO.	HOT GAS REHEAT						HEATING DATA							OUTSIDE AIR CFM	OUTSIDE AIR TEMP.	EST. WEIGHT (LBS)	DAIKIN MODEL NO.
	COIL TYPE	FACE AREA (FT^2)	TOT. CAP. (MBH)	E.A.T. (DB)	L.A.T. (DB/WB)	AIR P.D. (IN)	TYPE	STAGES	INPUT (MBH)	OUTPUT (MBH)	E.A.T. (DBF)	L.A.T. (DBF)					
H1	ALUMINUM TUBE MICRO-CHANNEL	14.8	76.7	48.7	72.0/60.8	0.06"	NAT GAS	MODULATING 10:1 TURNDOWN	200.0	162.0	43.7	86.0	4000	100°F	2385	DPSC17B

DOAS NO.	ENERGY RECOVERY – ENTHALPY WHEEL													
	OA CFM	EXHAUST CFM	WHEEL P.D.	SUMMER CONDITIONS						WINTER CONDITIONS					
				OA TEMP	RA TEMP	WHEEL LEAVING TEMP	MIXED AIR TEMP	RECOVERED CAPACITY (MBH)	EFFECTIVENESS	OA TEMP	RA TEMP	WHEEL LEAVING TEMP	MIXED AIR TEMP	RECOVERED CAPACITY (MBH)	EFFECTIVENESS
									TOTAL / SENS						TOTAL / SENS
H1	4000	3600	1.05"	91.0/79.0	75.0/62.0	81.6/73.3	81.6/73.3	142.5	0.64 / 0.65	20.0/19.0	70.0/50.0	48.1/31.2	48.1/31.2	142.5	0.64 / 0.65

THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT VOLTAGE & PHASE OF EACH AND EVERY EQUIPMENT ITEM WITH THE ELECTRICAL CONTRACTOR, PRIOR TO ORDER.

ACCESSORIES/OPTIONS: POWER BLOCK, PHASE FAILURE MONITOR, 0–5VDC DUCT MOUNTED HUMIDITY SENSOR, DIGITAL DDC SENSOR WITH ADJUSTABLE SETPOINT AND USER OVERRIDE.

NOTES:

1. PROVIDE FILTER RACKS ON BOTH THE SUPPLY AND THE EXHAUST, UPSTREAM OF THE HEAT RECOVERY WHEEL; PROVIDE (3) THREE COMPLETE SETS OF 30% EFFICIENT PLEATED 2" THICK FILTERS IN ADDITION TO START–UP FILTERS.
2. PROVIDE FACTORY FULL HAIL GUARDS AND COIL GUARDS.
3. PROVIDE 5 YEAR FULL COMPRESSOR WARRANTY; INCLUDING REFRIGERANT, PARTS & LABOR – NON PRORATED.
4. PROVIDE STAINLESS STEEL HEAT EXCHANGER WITH 15 YEAR NON–PRORATED WARRANTY.
5. PROVIDE INVERTER OR TRUE VARIABLE SPEED COMPRESSOR ALONG WITH MODULATING HOT GAS REHEAT FOR CAPACITY AND HUMIDITY CONTROL.
6. PROVIDE HINGED PANELS AT ALL ACCESS SECTIONS.
7. PROVIDE LOW VOLTAGE AND SINGLE PHASE PROTECTION; HEAVY–DUTY DISCONNECT SWITCHES (SEE ELECTRICAL PLANS FOR SIZE AND TYPE).
8. PROVIDE FIELD FABRICATED STRUCTURAL STEEL PLATFORM WITH FULL–PERIMETER SUPPORT RAILS IN MECHANICAL YARD; RE: STRUCTURAL PLANS.
9. APPROXIMATE WEIGHT INCLUDES SCHEDULED ACCESSORIES.
10. PROVIDE REMOTE INTERFACE WITH A SPACE AND HUMIDITY SENSOR WITH USER ADJUSTABLE SETPOINT AND DIGITAL DISPLAY.
11. USE ONLY COPPER SUPPLY WIRING WITH AMPACITY BASED ON 75°C CONDUCTOR RATING; CONNECTIONS TO TERMINALS SHALL BE MADE WITH COPPER LUGS AND COPPER WIRE – COORDINATE WITH ELECTRICAL CONTRACTOR.
12. PROVIDE STAND–ALONE DDC CONTROLS WITH THE FOLLOWING FACTORY INSTALLED SENSORS: LEAVING COIL/ENTERING FAN, BUILDING STATIC PRESSURE, DISCHARGE AIR TEMPERATURE, OUTSIDE AIR TEMPERATURE, DIRTY FILTER ON/OFF SWITCH, AIR FLOW PROVING SWITCH, LEAVING COIL/ENTERING FAN TEMPERATURE, RETURN AIR TEMPERATURE, SUPPLY LEAVING WHEEL TEMPERATURE, EXHAUST LEAVING WHEEL TEMPERATURE, AND RETURN AIR RELATIVE HUMIDITY. DOAS SHALL BE INTERLOCKED WITH 7–DAY PROGRAMMABLE TIMECLOCK FOR SCHEDULING.
13. PROVIDE FIELD POWERED 115V WEATHERPROOF GFI RECEPTACLE.

AIR DISTRIBUTION DEVICE SCHEDULE

TYPE	DESCRIPTION	MOUNTING	MANUFACTURER CATALOG NO.	MATERIAL	FINISH	ACCESSORIES/REMARKS
D1	SQUARE CEILING SUPPLY DIFFUSER	LAY–IN CEILING	PRICE ASCD	ALUMINUM	BAKED WHITE ENAMEL	24/24 FULLY LOUVERED PANEL; 10" DIAMETER NECK UNLESS NOTED OTHERWISE; 4–WAY THROW; SQUARE TO ROUND NECK ADAPTOR AS REQUIRED
D2	SQUARE CEILING DIRECTIONAL CORE SUPPLY DIFFUSER	LAY–IN CEILING	PRICE AMD	ALUMINUM	BAKED WHITE ENAMEL	24/24 FULLY LOUVERED PANEL; NECK SIZE AS INDICATED; THROW AS NOTED/ INDICATED; SQUARE TO ROUND NECK ADAPTER AS REQUIRED; TYPE 1 ALUMINUM SURFACE MOUNT PLASTER FRAME W/CONCEALED FASTENERS AS REQUIRED FOR RIGID CEILING.
D3	SQUARE CEILING DIRECTIONAL CORE SUPPLY DIFFUSER	CEILING SURFACE	PRICE AMD	ALUMINUM	BAKED WHITE ENAMEL	12/12 FULLY LOUVERED PANEL; NECK SIZE AS INDICATED; THROW AS NOTED/INDICATED; SQUARE TO ROUND NECK ADAPTOR AS REQUIRED; TYPE 1 ALUMINUM SURFACE MOUNT PLASTER FRAME WITH CONCEALED FASTENERS
D4	LINEAR SLOT CEILING SUPPLY DIFFUSER	LAY–IN CEILING	PRICE SDBI100/4/14/10"	ALUMINUM	BAKED WHITE ENAMEL	48" LONG; (4) 1" SLOTS; SBDI INSULATED PERFORMANCE PLENUM WITH 10"ø INLET; TYPE 12 T–BAR FRAME COMPATIBLE WITH LAY–IN CEILING (RE: ARCH RCP); TYPE Z FLUSH END CAPS
D5	SIDEWALL SUPPLY DIFFUSER	WALL SURFACE	PRICE 620DAL/N/S	ALUMINUM	PAINT GRIP MILL FINISH FOR FIELD PAINTING	DOUBLE–DEFECTION; HORIZONTAL FRONT AND VERTICAL REAR VANES AT 22 1/2° DEFECTION; ALUMINUM OBD; SIZE AS INDICATED ON PLAN.
G1	CEILING RETURN/ EXHAUST GRILLE	CEILING LAY–IN	PRICE 80D–TB	ALUMINUM	BAKED WHITE ENAMEL	24/24 PANEL; 1/2" x 1/2" x 1/2" EGG CRATE CORE; ALUMINUM OPPOSED BLADE DAMPER ADJUSTABLE THROUGH FACE; LAY–IN T–BAR PERIMETER BORDER/FRAME
G2	CEILING RETURN/ EXHAUST GRILLE	CEILING LAY–IN	PRICE 80D–TB	ALUMINUM	BAKED WHITE ENAMEL	24/12 PANEL; 1/2" X 1/2" X 1/2" EGG CRATE CORE; ALUMINUM OPPOSED BLADE DAMPER ADJUSTABLE THROUGH FACE; LAY–IN T–BAR PERIMETER BORDER/FRAME
G3	CEILING RETURN/ EXHAUST GRILLE	CEILING SURFACE	PRICE 80D	ALUMINUM	BAKED WHITE ENAMEL	12/12 PANEL; 1/2" X 1/2" X 1/2" EGG CRATE CORE; TYPE 1 ALUMINUM SURFACE MOUNT PLASTER FRAME WITH CONCEALED FASTENERS; ALUMINUM OPPOSED BLADE DAMPER ADJUSTABLE THROUGH FACE
G4	LINEAR SLOT CEILING RETURN GRILLE	CEILING SURFACE	PRICE SDRI100/4/7	ALUMINUM	BAKED WHITE ENAMEL	48" LONG; (4) 1" SLOTS; TYPE 7 FLANGE SURFACE MOUNT CONCEALED MOUNTING FRAME WITH TYPE XX MITERED END FLANGE; PERFORMANCE PLENUM WITH 10"ø OUTLET,
G5	SIDEWALL RETURN GRILLE	WALL SURFACE	PRICE 630DAL	ALUMINUM	BAKED WHITE ENAMEL	HORIZONTAL VANES 3/4" ON CENTER AT 45 DEGREE DEFLECTION; SIZE AS NOTED; ALUMINUM OBD; FLAT SURFACE MOUNT FRAME

NOTES:

1. REFERENCE THE ARCHITECTURAL REFLECTED CEILING PLAN TO CONFIRM AIR DEVICE MOUNTING TYPES, PERIMETER FRAME TYPE REQUIRED AND LOCATIONS PRIOR TO ORDERING AIR DEVICES. PROVIDE SURFACE MOUNT PLASTER FRAMES WITH CONCEALED FASTENERS FOR ALL LAY–IN T–BAR DEVICES INSTALLED IN RIGID CEILINGS AND FOR ALL AIR DEVICES SMALLER THAN FULL T–BAR GRID DIMENSIONS.
2. PROVIDE ALUMINUM OPPOSED BLADE DAMPERS IN RETURN GRILLE NECK/THROAT ONLY WHERE DUCT MOUNTED MANUAL VOLUME DAMPERS CANNOT BE INSTALLED.
3. SEE HVAC GENERAL NOTES FOR DAMPER GEAR OPERATORS, FLEXIBLE SHAFT EXTENSIONS, ETC.
4. PROVIDE THE FOLLOWING CORE STYLES FOR DIRECTIONAL CORE DIFFUSERS D2 AND D4 THROW LISTED/INDICATED (UNLESS NOTED OTHERWISE ON PLAN): 1–WAY = STYLE 1S; 2–WAY = STYLE 2S; 3–WAY = STYLE 3A
5. ALL BRANCH DUCT RUNOUTS TO D6 SLOT DIFFUSERS SHALL HAVE ALUMINUM OPPOSED BLADE DAMPERS WITH REMOTE DAMPER GEAR OPERATORS, LINKAGE, SHAFT EXTENSIONS, ETC. PER HVAC GENERAL NOTE 13 UNLESS SPECIFICALLY NOTED OTHERWISE ON PLAN..

H V A C L E G E N D

SYMBOL	DESCRIPTION
	SUPPLY AIR DIFFUSER OR DUCT
	RETURN AIR GRILLE, REGISTER OR DUCT
	EXHAUST AIR GRILLE, REGISTER OR DUCT
	ADJUSTABLE SPLITTER TEE W/TURNING VANES (SA ONLY)
	DUCT TRANSITION – CONCENTRIC, ECCENTRIC
U/G	UNDERGROUND
	FLEXIBLE DUCT
	LINED DUCTWORK
	ELBOW W/DOUBLE THICKNESS VANES
	MANUAL VOLUME DAMPER
M	MOTORIZED DAMPER
T	THERMOSTAT/ROOM TEMPERATURE SENSOR
	FIRE DAMPER
RL	REFRIGERANT LIQUID
RS	REFRIGERANT SUCTION
D	DRAIN LINE
AD	AUXILIARY DRAIN LINE
AFF	ABOVE FINISHED FLOOR
U/S	UNDER SLAB
EF	EXHAUST FAN
UH	UNIT HEATER
TNS	NIGHT SETBACK THERMOSTAT
AFF	ABOVE FINISHED FLOOR
CO_2	CARBON DIOXIDE SENSOR
MS	MINISPLIT AIR HANDLING UNIT

SYMBOL	DESCRIPTION
MSHP	MINISPLIT AIR–COOLED HEAT PUMP
EAT	ENTERING AIR TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
SA	SUPPLY AIR
RA	RETURN AIR
EA	EXHAUST AIR
OA	OUTSIDE AIR
OBD	OPPOSED BLADE DAMPER
U/F	UNDER FLOOR
EXTG	EXISTING
	CONNECT TO EXISTING
	ADJUSTABLE SCOOP
	MANUAL SPLITTER
H	HUMIDISTAT
OSD	OPEN SITE DRAIN
HD	HUB DRAIN
CFM	CUBIC FEET PER MINUTE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VFD	VARIABLE FREQUENCY DRIVE
	SWING CHECK VALVE
	PRESSURE REDUCING VALVE OR REGULATOR
	SOLENOID VALVE
	GRAVITY BACKDRAFT DAMPER
HP	VARIABLE–SPEED HEAT PUMP
HPAHU	VARIABLE–SPEED AIR HANDLING UNIT

NOTE: NOT ALL SYMBOLS USED.

MISCELLANEOUS

X — DETAIL NUMBER / X — SHEET NUMBER	DETAIL DESIGNATION
300 CFM — AIRFLOW D1, 10"ø — DEVICE DESIGN, NECK SIZE (TYP 4) — QUANTITY (IF MORE THAN ONE)	AIR DEVICE DESIGNATION
'A' 'A' "A" — SECTION NUMBER	SECTION DESIGNATION

VARIABLE SPLIT SYSTEM HEAT PUMP SCHEDULE

MARK - INDOOR UNIT		HPAHU – 'A'	HPAHU – 'B'	HPAHU – 'C'	
LOCATION		REFER DRAWINGS	REFER DRAWINGS	REFER DRAWINGS	
TYPE		VERT DRAW THRU	VERT DRAW THRU	VERT DRAW THRU	
FAN					
AIRFLOW	CFM	1050/900/750	1525/1290/1060	1525/1290/1060	
ESP	IN WG	0.1 – 0.9	0.1 – 0.9	0.1 – 0.9	
OUTSIDE AIR	CFM	N/A	N/A	N/A	
DRIVE TYPE / SPEEDS		DIRECT / ADJ	DIRECT / ADJ	DIRECT / ADJ	
MOTOR	HP	1/2	3/4	3/4	
COOLING					
AIRFLOW	CFM	1050	1525	1800	
EAT (DB/WB)	F	74.0/62.0	74.0/62.0	74.0/62.0	
RATED COOLING CAPACITY	MBH	29.4	39.2	49.0	
SENSIBLE CAPACITY	MBH	20.1	28.2	35.9	
AMBIENT AIR TEMPERATURE	F	100	100	100	
HEATING					
AIRFLOW		1050	1525	1800	
EAT	F	70	70	70	
RATED HEATING CAPACITY	MBH	41.1	55.5	54.0	
SOURCE AIR TEMPERATURE	F	47	47	47	
SUPPLEMENTARY ELECTRIC HEAT		N/A	N/A	N/A	
ELECTRICAL					
VOLTS / PHASE		208 / 1	208 / 1	208 / 1	
MCA	AMP	4.9	6.5	8.6	
OCPD	AMP	15.0	15.0	15.0	
MANUFACTURER		"DAIKIN"	"DAIKIN"	"DAIKIN"	
MODEL NO		RXTA 36 AAVJU	RXTA 48 AAVJU	RXTA 60 AAVJU	
MARK - OUTDOOR UNIT		HP – 'A'	HP – 'B'	HP – 'C'	
NOMINAL TONS		3	4	5	
REFRIGERANT		R32	R32	R32	
NUMBER OF COMPRESSORS		ONE	ONE	ONE	
EER / IEER (DUCTED)		11 / 16	9.4 / 16	9.4 / 16	
GAS PIPE CONNECTION	IN	5/8"	5/8"	5/8"	
LIQUID PIPE CONNECTION	IN	3/8"	3/8"	3/8"	
CONDENSATE DRAIN	IN	1"	1"	1"	
COOLING INPUT POWER	KW	3.13	4.85	4.85	
HEATING INPUT POWER	KW	3.12	4.00	4.00	
VOLTS / PHASE		208 / 1	208 / 1	208 / 1	
MCA		16.5	29.1	29.1	
OCPD		25.0	35.0	35.0	
MANUFACTURER		"DAIKIN"	"DAIKIN"	"DAIKIN"	
MODEL NO		FXTA 36 AAVJUD	FXTA 48 AAVJUD	FXTA 60 AAVJUD	
REMARKS					

THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT VOLTAGE & PHASE OF EACH AND EVERY EQUIPMENT ITEM WITH THE ELECTRICAL CONTRACTOR, PRIOR TO ORDER. ELECTRICAL DESIGN, PANEL/SERVICE LOADS AND POWER SUPPLY CONDUCTERS/CONDUIT SIZES ARE BASED UPON ABOVE SCHEDULED EQUIPMENT; MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR USING EQUIPMENT BY OTHER MANUFACTURERS; COORDINATE WITH ELECTRICAL CONTRACTOR ACCORDINGLY.

OUTDOOR DESIGN CONDITIONS: SUMMER – 100°F/80°F, WINTER – 18°F

NOTES:

1. HEATING DATA TAKEN AT ARI CONDITIONS (LOW 70/17 AND HIGH 70/47)
2. EXTERNAL STATIC PRESSURE DOES NOT INCLUDE FILTER, HEATER, WET COIL, AND ANY OTHER PRESSURE DROPS INTERNAL TO THE UNIT.
3. MANUFACTURER SHALL CERTIFY SYSTEM PERFORMANCE WITH REQUIRED EXTENDED LENGTH REFRIGERANT PIPING; PROVIDE WRITTEN CERTIFICATION AND COMPLIANCE BASED ON ACTUAL REQUIRED LINE LENGTHS OF EACH SYSTEM.
4. SUPPLY FAN DRIVE SHALL BE VARIABLE SPEED ECM.
5. REFRIGERANT PIPING SHALL BE SIZED BY MANUFACTURER BASED ON ACTUAL LINEAR LINE LENGTHS. PROVIDE REFRIGERANT "LONG–LINE" COMPONENTS, AS REQUIRED BY FIELD ROUTING AND ACTUAL INSTALLATION REQUIREMENTS OF PIPING. SUBMIT PIPING DIAGRAM INCLUDING LINE LENGTHS AND SIZES WITH SHOP DRAWING SUBMITTAL.
6. PROVIDE 2" FILTER RACKS WITH HINGED ACCESS & THREE SETS OF 30% EFF PLEATED 2" THICK FILTERS IN ADDITION TO START–UP FILTERS.
7. PROVIDE LOW AMBIENT CONTROL FOR COOLING TO 30° AMBIENT, HIGH CAPACITY FILTER DRYERS, CRANKCASE HEATERS, ANTI–SHORTCYCLE TIMER.
8. HEAT PUMPS SHALL INCLUDE VARIABLE–SPEED INVERTER CONTROLLED COMPRESSORS, FACTORY FULL HAIL GUARDS AND COIL GUARDS.
9. PROVIDE MINIMUM 10 YEAR FULL COMPRESSOR WARRANTY; INCLUDING REFRIGERANT, PARTS & LABOR – NON PRORATED.
10. SCHEDULED COOLING CAPACITIES ARE NET FOR HIGH STAGE.
11. PROVIDE INTUITIVE TOUCHSCREEN AUTO–CHANGEOVER MULTI–STAGE WIFI BLUETOOTH THERMOSTAT WITH GUARD.
12. REFRIGERANT SHALL BE R32 OR EQUIVALENT.
13. ELECTRICAL DESIGN, PANEL/SERVICE LOADS AND POWER SUPPLY CONDUCTORS/CONDUIT SIZES ARE BASED UPON ABOVE SCHEDULED EQUIPMENT; MECHANICAL CONTRACTOR IS RESPONSIBLE FOR ANY AND ALL COSTS ASSOCIATED WITH ELECTRICAL CHANGES REQUIRED FOR USING EQUIPMENT BY OTHER MANUFACTURERS; COORDINATE WITH ELECTRICAL CONTRACTOR ACCORDINGLY.
14. PROVIDE FACTORY DISCONNECT SWITCH ON EACH OUTDOOR HEAT PUMP.

HEAT PUMP AIR HANDLING UNITS (HPAHU/HP) H–WING

ROOM NUMBER	ROOM FUNCTION	AIR HANDLING UNIT	HEAT PUMP	SYSTEM NOMINAL TONNAGE	HPAHU/HP TYPE
H107	CLASSROOM	HPAHU-H1	HP-H1	4	B
H108	CLASSROOM	HPAHU-H2	HP-H2	4	B
H106	CLASSROOM	HPAHU-H3	HP-H3	3	A
H109	CLASSROOM	HPAHU-H4	HP-H4	3	A
H105	CLASSROOM	HPAHU-H5	HP-H5	3	A
H110	CLASSROOM	HPAHU-H6	HP-H6	3	A
H104	CLASSROOM	HPAHU-H7	HP-H7	3	A
H111	CLASSROOM	HPAHU-H8	HP-H8	3	A
H103	CLASSROOM	HPAHU-H9	HP-H9	4	B
H112	COMPUTER CLASSROOM	HPAHU-H10	HP-H10	5	C
H102	CLASSROOM	HPAHU-H11	HP-H11	4	B
H113	ART	HPAHU-H12	HP-H12	4	B
H114	WORK ROOM/ CONTROL	HPAHU-H12	HP-H12		
H115	ART CLASSROOM	HPAHU-H13	HP-H13	5	C
H101	CORRIDOR	HPAHU-H14	HP-H14	5	C
H118	JANITOR	HPAHU-H14	HP-H14		
H119	STAFF TOILET	HPAHU-H14	HP-H14		
H120	MENS	HPAHU-H14	HP-H14		
H121	WOMENS	HPAHU-H14	HP-H14		
H100	CONNECTING CORRIDOR	HPAHU-H15	HP-H15	5	C

+MINI–SPLIT HEAT PUMP SYSTEM UNIT SCHEDULE

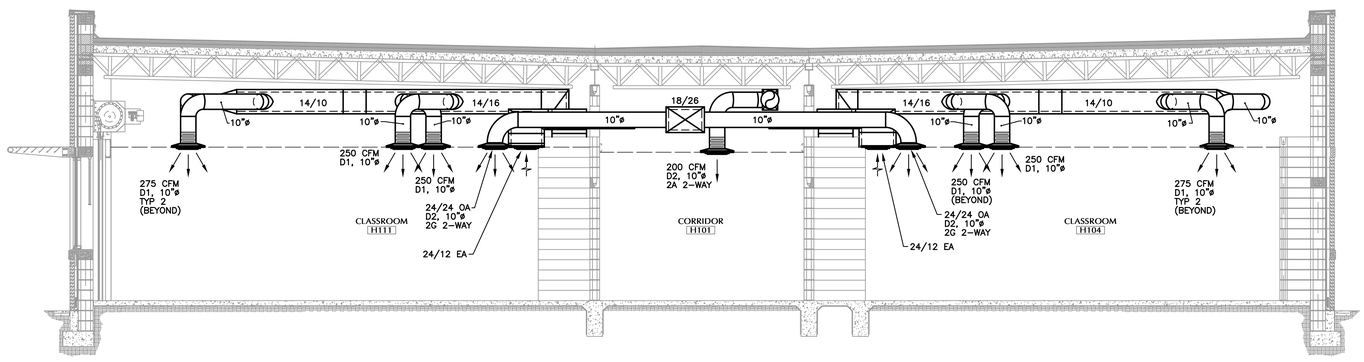
INDOOR UNIT*								OUTDOOR UNIT**					
DESIGN	BLOWER CFM	SOUND PRESSURE (dBA)	VOLTS/ø	COOLING MBH	EAT (DB/WB)	HEATING MBH@47°	DAIKIN(+) MODEL	DESIGN	COOLING MBH	O/A TEMP	SEER	VOLTS/ø	MCA/MOP	DAIKIN(+) MODEL
MS–H1	132–473	19–45	208/1	13.3/12.0	80/67	16.4	ENTRA R–32 FTXC12AXVJU	MSHP–H1	13.3/12.0	95/14	18.0	208/1	9.36/15.0	RXC12AXVJU

THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT VOLTAGE & PHASE OF EACH AND EVERY EQUIPMENT ITEM WITH THE ELECTRICAL CONTRACTOR, PRIOR TO ORDER.

* INDOOR AIR UNIT SHALL INCLUDE: WIRELESS INTERFACE ADAPTOR, ENVI INTELLIGENT THERMOSTAT KIT WITH TOUCHSCREEN THERMOSTAT (WIRELESS AND BLUETOOTH COMPATIBLE), INLINE OR INTEGRAL CONDENSATE PUMP(PUMP MUST HAVE MINIMUM 48" OF LIFT), PHOTOCATALYTIC AIR–PURIFYING FILTER.

** OUTDOOR UNIT SHALL INCLUDE: AIR DIRECTION ADJUSTMENT GRILLE, BML DRAIN PAN HEATER, FIELD–FABRICATED LOUVERED HAIL GUARDS POWDER–COATED TO MATCH EQUIPMENT HOUSING FACTORY FINISH. EACH SYSTEM SHALL INCUDE START–UP BY FACTORY AUTHORIZED TECHNICIAN; PROVIDE START–UP REPORT WITH PROJECT O&M MANUALS AND CLOSE–OUT DOCUMENTS.

+ SYSTEM FEATURES: R–32 REFRIGERANT; SWING COMPRESSOR WITH INVERTER; AUTO–DEFROST, AUTO–FAN SPEED AND AUTO–RESTART AFTER POWER FAILURE; POWER AIRFLOW BAFFLE; TITANIUM APATITE AIR PURIFYING FILTER; SELF–DIAGNOSIS; MINIMUM 10 YEAR PARTS AND COMPRESSOR WARRANTY.



A SECTION – HVAC

1/4"=1"–0"

BLEDSOE ARCHITECTS
735 ROBINHOOD STREET
SHREVEPORT, LA 71106
PHONE: (318) 219-2295
FAX: (318) 219-2296

STATE OF LOUISIANA — THOMAS CHRISTOPHER DAVIDSON — REGISTERED PROFESSIONAL ENGINEER — 01-14-2026

EMA
DESIGN SOLVE ENHANCE
EMA Engineering & Consulting, Inc.
9441 STEVENS ROAD, SUITE 200
SHREVEPORT, LOUISIANA 71106
318 425 4500
LOUISIANA Registered Engineering Firm #EF-5818
TEXAS Registered Engineering Firm #F-893

SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGEMENT THAT CONTRACTOR HAS VISITED THE SITE AND HAS BECOME FAMILIAR WITH ALL EXISTING JOB CONDITIONS AND INCLUDES ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING SYSTEM.

5-188-1786-001

NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

HVAC SCHEDULES

BOSSIER SCHOOLS "Win the Day!"

BPSB PROJECT #26-02

JOB NO. 2511

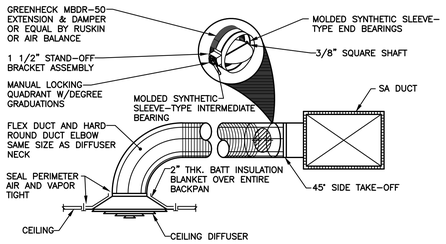
REVISIONS:

14 JAN 2026

SHEET

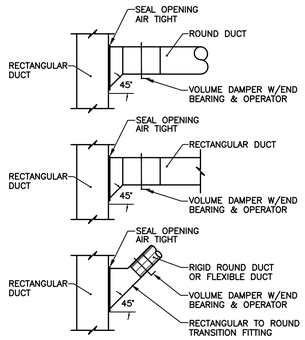
M3.0

SEQ 53 of 63



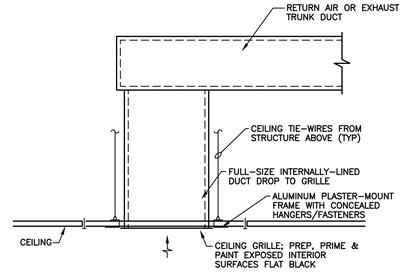
A DETAIL – LAY-IN DIFFUSER CONNECTION

NO SCALE



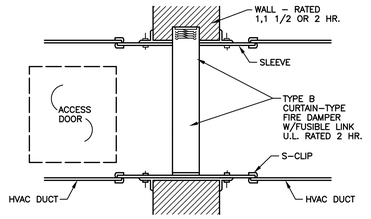
B DETAIL – DUCT TAKE-OFFS

NO SCALE



C DETAIL – RETURN/EXHAUST GRILLE

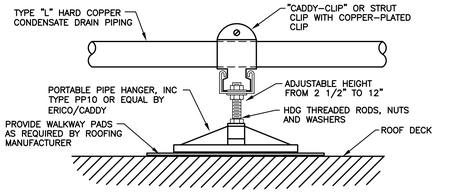
NO SCALE



D DETAIL – FIRE DAMPER

NOTE: FIRE WALLS RATED 1, 1 1/2 OR 2 HOURS.

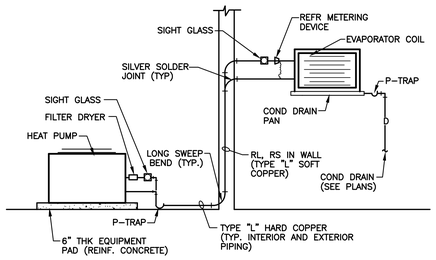
NO SCALE



E DETAIL – REFRIGERANT TUBING

NOTE: TUBING SUPPORT ON CONCRETE FLATWORK SIMILAR.

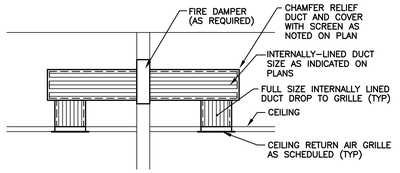
NO SCALE



F DETAIL – HEAT PUMP UNIT ON GROUND

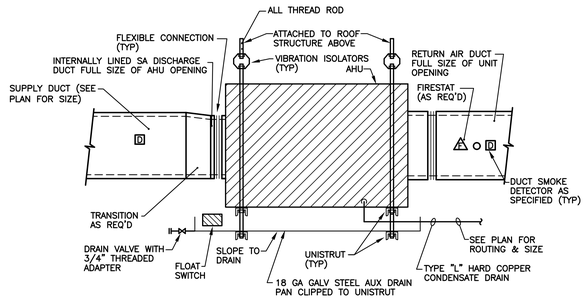
NOTE: 1. REFRIGERANT PIPING IN WALL SHALL BE TYPE "L" SOFT COPPER WITH LONG RADIUS BENDS OUT WALL. JOINTS IN WALL ARE NOT ACCEPTABLE.
2. MINI-SPLIT HEAT PUMPS SIMILAR.

NO SCALE



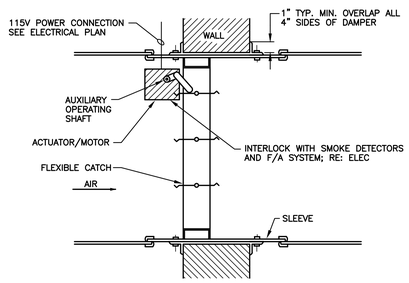
G DETAIL – RETURN AIR TRANSFER/RELIEF DUCT

NO SCALE



H DETAIL – SUSPENDED HORIZONTAL DUCTED VRF FAN COIL UNIT

NO SCALE



J DETAIL – SMOKE DAMPER

NO SCALE

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NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
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HVAC DETAILS

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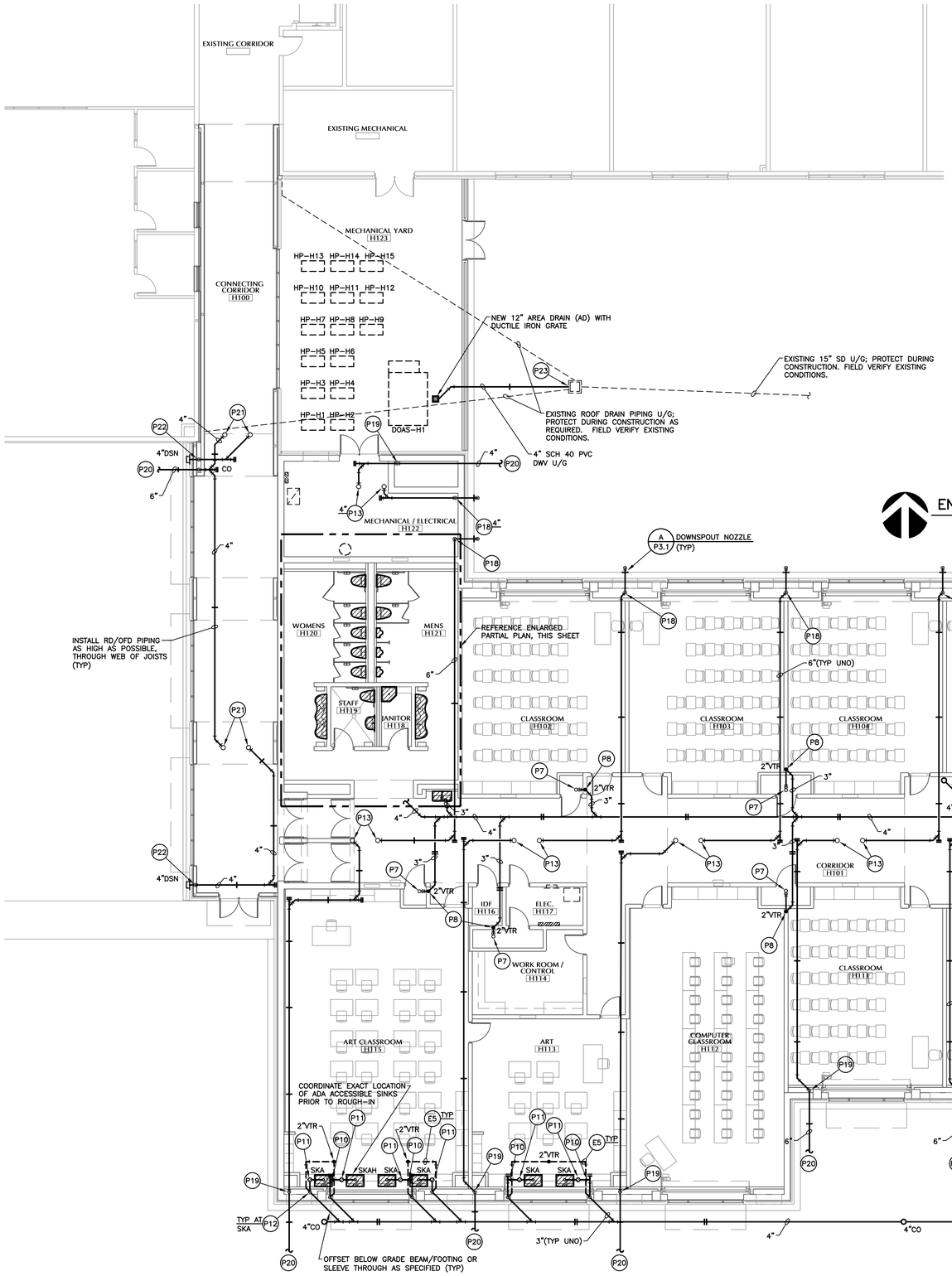
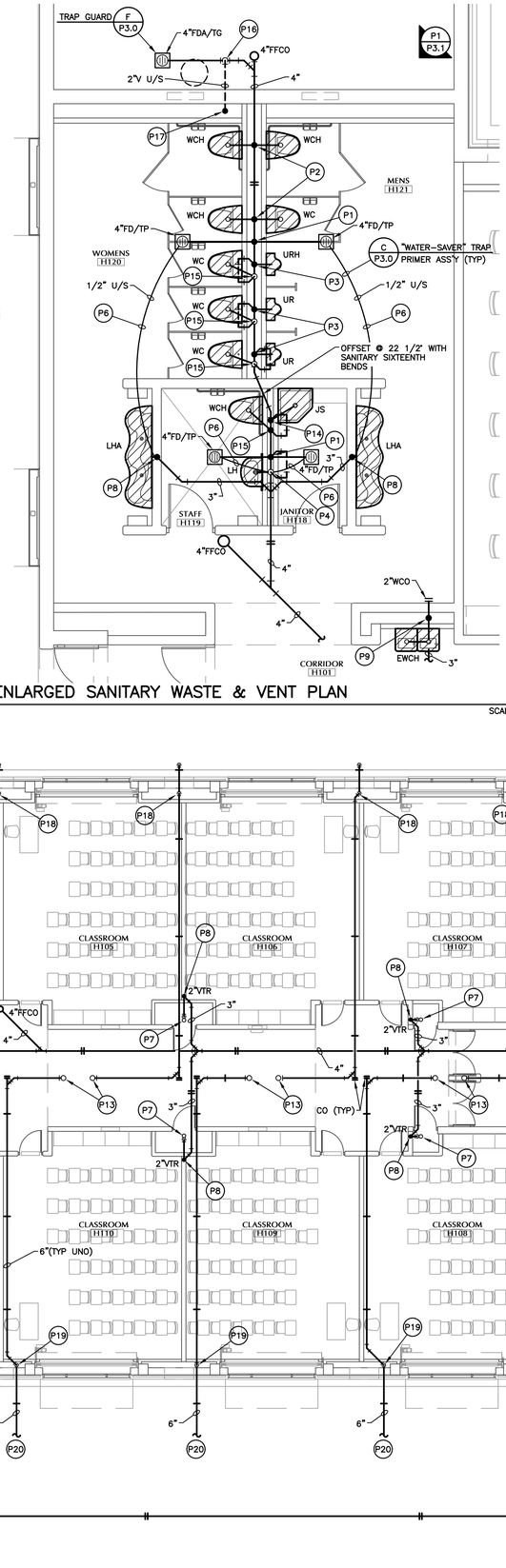


SANITARY WASTE & VENT PLAN

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



ENLARGED SANITARY WASTE & VENT PLAN

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

PLUMBING KEYED NOTES:

(P1) 4" COMBINATION IN VERTICAL WITH 4" WASTE STACK, 4" SANITARY CROSS FOR FLOOR DRAIN UNDERSLAB WASTE ARM CONNECTIONS. PROVIDE 4"x2" REDUCING BUSHING AND 2" VENT STACK IN WALL/CHASE; EXTEND 2" VENT UP IN WALL/CHASE TO ABOVE CEILING. EXTEND 2" VENT THROUGH SHELTER ROOF AND TERMINATE WITH 2" SERVICE-WEIGHT CAST-IRON VTR. COMBINE NO MORE THAN (2) TWO WASTE/VENT STACKS INTO (1) ONE 2" VTR.

(P2) 4" COMBINATION IN VERTICAL WITH 4" WASTE STACK, 4" SANITARY CROSS AND 4" WASTE ARM BRANCHES UNDERSLAB TO EACH CLOSET BEND AND CLOSET FLANGE. PROVIDE 4"x2" REDUCING BUSHING AND EXTEND 2" VENT UP IN WALL/CHASE TO ABOVE CEILING. EXTEND 2" VENT THROUGH SHELTER ROOF AND TERMINATE WITH 2" SERVICE-WEIGHT CAST-IRON VTR. COMBINE NO MORE THAN (2) TWO WASTE/VENT STACKS INTO (1) ONE 2" VTR.

(P3) 4"x4"x2" REDUCING COMBINATION WITH 2" WASTE/VENT STACK IN CHASE FOR URINAL ROUGH-IN CONNECTION; EXTEND 2" VENT UP IN WALL/CHASE TO ABOVE CEILING. EXTEND 2" VENT THROUGH SHELTER ROOF AND TERMINATE WITH 2" SERVICE-WEIGHT CAST-IRON VTR. COMBINE NO MORE THAN (2) TWO WASTE/VENT STACKS INTO (1) ONE 2" VTR.

(P4) 4"x4"x2" REDUCING COMBINATION WITH 2" WASTE/VENT STACK IN CHASE FOR LAVATORY/SINK ROUGH-IN CONNECTION; EXTEND 2" VENT UP IN WALL/CHASE TO ABOVE CEILING. EXTEND 2" VENT THROUGH SHELTER ROOF AND TERMINATE WITH 2" SERVICE-WEIGHT CAST-IRON VTR. COMBINE NO MORE THAN (2) TWO WASTE/VENT STACKS INTO (1) ONE 2" VTR.

(P5) SANITARY VENT PIPING ABOVE CEILING; 2" UNLESS NOTED OTHERWISE.

(P6) 1/2" TYPE "L" COPPER UNDERSLAB FROM TRAP PRIMING ASSEMBLY. EXTEND AND CONNECT TO FLOOR DRAIN (FD/TP) AS DETAILED.

(P7) 2" CAST-IRON DEEP-SEAL P-TRAP WITH HUB-DRAIN, ELONGATED FUNNEL AND PROSET TRAP GUARD FOR HPAHU CONDENSATE OPEN-SIGHT DRAIN TERMINATION. TOP OF HUB-DRAIN SHALL FINISH FLUSH WITH TOP OF PLENUM PLATFORM. FIELD COORDINATE EXACT HUB-DRAIN LOCATION WITH HVAC EQUIPMENT AND RETURN AIR DUCT. INSULATE HUB-DRAIN P-TRAP AND ALL ABOVE SLAB PIPING WITH 1" THICK ARMAFLEX.

(P8) 3" SANITARY LONG SWEEP ELBOW WITH 3"x2" REDUCING AND 2" WASTE/VENT STACK IN FRAME WALL. EXTEND 2" VENT UP IN WALL TO ABOVE CEILING. EXTEND 2" VENT THROUGH SHELTER ROOF AND TERMINATE WITH 2" SERVICE-WEIGHT CAST-IRON VTR. COMBINE NO MORE THAN (2) TWO WASTE/VENT STACKS INTO (1) ONE 2" VTR.

(P9) 3" LONG SWEEP ELBOW WITH 2" WASTE/VENT STACK IN WALL FOR WATER COOLER ROUGH-IN CONNECTION. EXTEND 2" VENT UP IN WALL/CHASE TO ABOVE CEILING. EXTEND 2" VENT THROUGH SHELTER ROOF AND TERMINATE WITH 2" SERVICE-WEIGHT CAST-IRON VTR. COMBINE NO MORE THAN (2) TWO WASTE/VENT STACKS INTO (1) ONE 2" VTR.

(P10) OFFSET WASTE PIPING THROUGH MILLWORK TO WASTE/VENT STACK VENT CONNECTION. PROVIDE SANITARY TEE OR WYE WITH CLEANOUT AT PIPING CHANGE IN DIRECTION UNDER COUNTER.

(P11) CONTRACTOR SHALL INSTALL SOLIDS INTERCEPTOR UNDERCOUNTER PER MANUFACTURER'S INSTRUCTIONS, PIPING DIAGRAMS AND AS DETAILED. REFERENCE SHEET P3.1, DETAIL "E". INTERCEPTOR SHALL BE EQUAL TO J.R. SMITH 8714-SS WITH FINE MESH SCREEN BUCKET LINER. INTERCEPTOR BODY THROUGH BOTTOM OF MILLWORK TO FLOOR SLAB AND SEAL MILLWORK PENETRATION WATER-TIGHT.

(P12) 3" LONG SANITARY SWEEP ELBOW WITH 3"X2" REDUCING BUSHING AND 2" WASTE/VENT STACK IN WALL. EXTEND 2" VENT UP IN WALL TO ABOVE CEILING.

(P13) SERVICE WEIGHT CAST-IRON FROM STORM SHELTER ROOF DRAIN (RD)/OVERFLOW ROOF DRAIN (ORD); 6" UNLESS NOTED OTHERWISE. PROVIDE FERNCO OR EQUAL ADAPTER AT CONNECTION TO CYCLONE SHELTER DRAIN STUB AS REQUIRED.

(P14) 4"X3" REDUCING COMBINATION WITH 3" WASTE STACK, 3" SANITARY TEE AND 3" WASTE ARM BRANCH UNDERSLAB TO 3" DEEP-SEAL P-TRAP UNDERSLAB WITH STUB-UP FOR JANITOR/SERVICE SINK DRAIN CONNECTION. PROVIDE 3"x2" REDUCING BUSHING AND EXTEND 2" VENT UP IN CHASE TO ABOVE CEILING. EXTEND 2" VENT THROUGH SHELTER ROOF AND TERMINATE WITH 2" SERVICE-WEIGHT CAST-IRON VTR. COMBINE NO MORE THAN (2) TWO WASTE/VENT STACKS INTO (1) ONE 2" VTR.

(P15) 4" COMBINATION IN VERTICAL WITH 4" WASTE STACK, 4" SANITARY CROSS AND 4" WASTE ARM BRANCH UNDERSLAB TO CLOSET BEND AND CLOSET FLANGE. PROVIDE 4"X2" REDUCING BUSHING AND EXTEND 2" VENT UP IN WALL/CHASE AND OFFSET TO ADJACENT VENT STACK AS INDICATED.

(P16) SANITARY VENT CONNECTION UNDERSLAB; 2" UNLESS NOTED OTHERWISE. OFFSET UNDERSLAB, AND RISE IN WALL TO ABOVE CEILING AS INDICATED.

(P17) SANITARY VENT PIPING UP IN WALL TO ABOVE CEILING; 2" UNLESS NOTED OTHERWISE. EXTEND 2" VENT THROUGH SHELTER ROOF AND TERMINATE WITH 2" SERVICE-WEIGHT CAST-IRON VTR. COMBINE NO MORE THAN (2) TWO WASTE/VENT STACKS INTO (1) ONE 2" VTR.

(P18) 6" SERVICE-WEIGHT CAST-IRON OVERFLOW DRAIN LEADER DOWN IN CHASE; TURN OUT 6" ABOVE GRADE AND TERMINATE WITH CYCLONE CWDS-6-X SHELTER DOWNSPOUT. PROVIDE FERNCO OR EQUAL ADAPTER AT CONNECTION TO PIPE EXTENSION AS REQUIRED. COORDINATE EXTENSION PIPE LENGTH WITH SHELTER WALL/CHASE CONSTRUCTION AND PROVIDE ACCORDINGLY; RE: ARCHITECTURAL AND STRUCTURAL PLANS.

(P19) SERVICE-WEIGHT CAST-IRON ROOF DRAIN LEADER DOWN IN CHASE TO UNDERSLAB; 6" UNLESS NOTED OTHERWISE.

(P20) REFERENCE CIVIL ENGINEER SITE UTILITY PLANS FOR CONTINUATION.

(P21) SERVICE-WEIGHT CAST-IRON FROM ROOF/OVERFLOW DRAIN; 4" UNLESS NOTED OTHERWISE.

(P22) 4" SERVICE-WEIGHT CAST-IRON LEADER DOWN IN WALL/CHASE; TURN OUT 6" ABOVE GRADE WITH STREET ELBOW AND TERMINATE WITH MIFAB PERFORATED STAINLESS STEEL DOWNSPOUT NOZZLE (DSN) AS DETAILED. RE: DETAIL "A", SHEET P3.1.

(P23) OFFSET, EXTEND AND CONNECT TO EXISTING CATCH BASIN/AREA DRAIN AS REQUIRED. FIELD VERIFY EXISTING CONDITIONS PRIOR TO MATERIAL ORDER AND WORK OF ANY KIND.

CONTRACTOR NOTE:

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SANITARY WASTE & VENT PLAN

BOSSIER SCHOOLS "Win the Day!"

BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

14 JAN 2026

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P1.1

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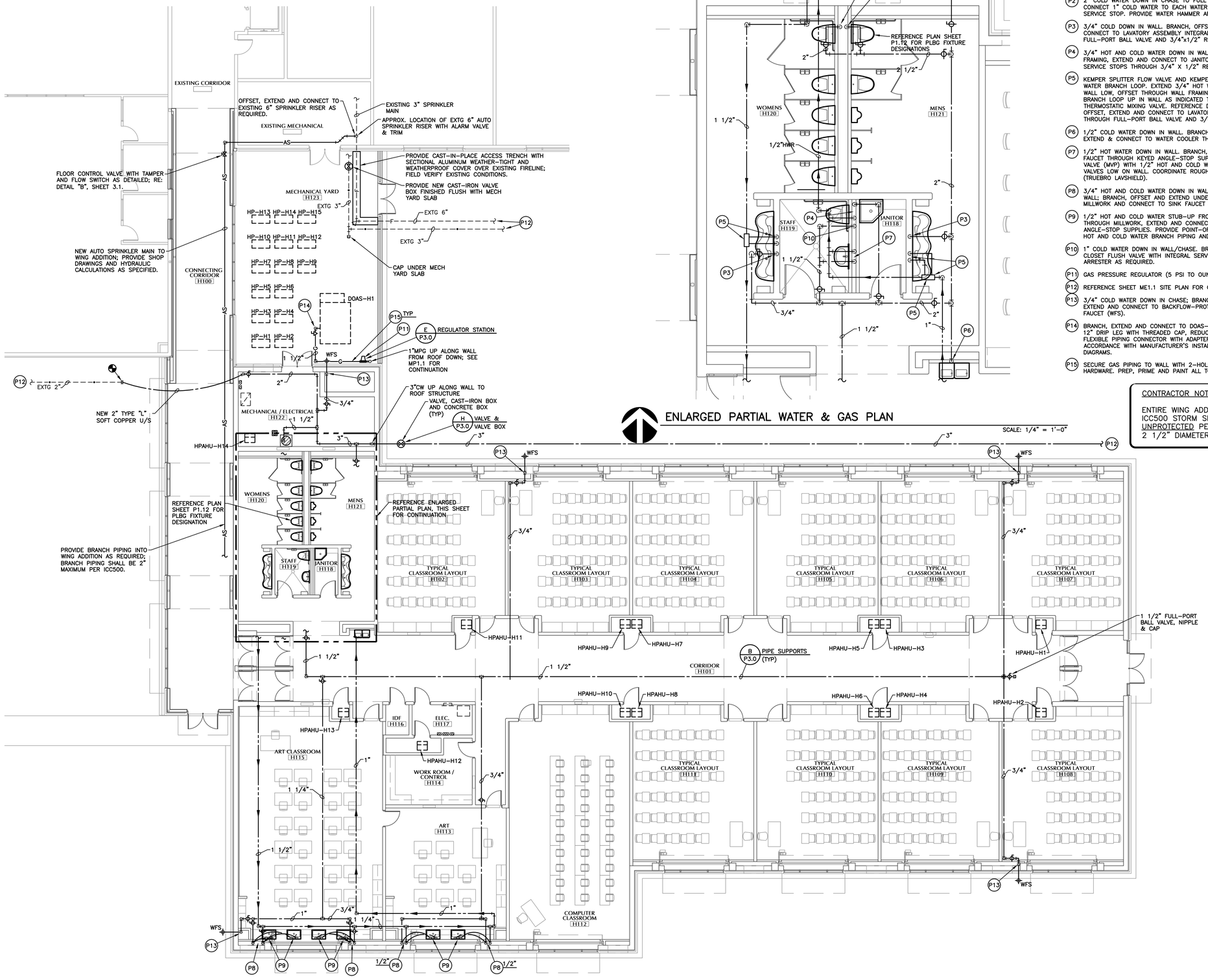
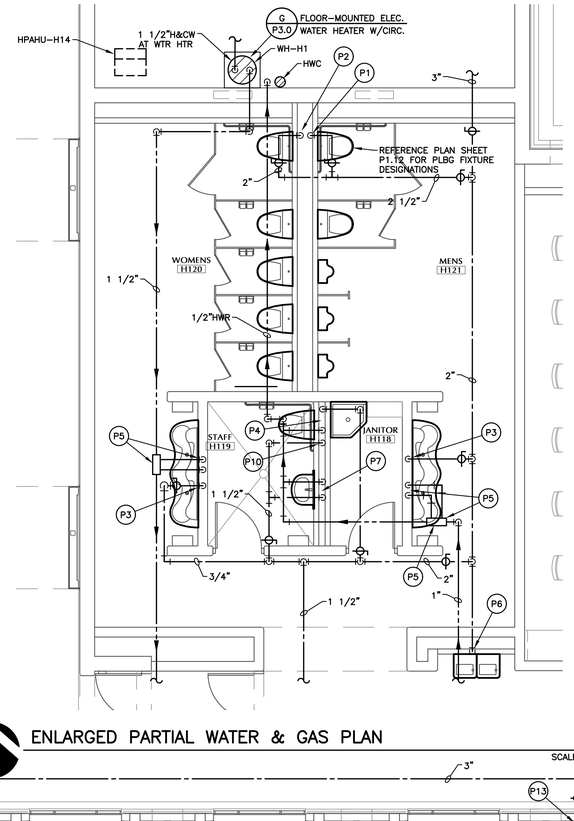


WATER & GAS PLAN

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



ENLARGED PARTIAL WATER & GAS PLAN

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

PLUMBING KEYED NOTES:

(P1) 2" COLD WATER DOWN IN CHASE TO FULL SIZE HEADER. BRANCH, EXTEND & CONNECT 1" COLD WATER TO EACH WATER CLOSET FLUSH VALVE AND 3/4" COLD WATER TO EACH URINAL FLUSH VALVE WITH INTEGRAL SERVICE STOPS. PROVIDE WATER HAMMER ARRESTORS ABOVE CEILING OFF FULL-SIZE RISER AS SPECIFIED.

(P2) 2" COLD WATER DOWN IN CHASE TO FULL SIZE HEADER. BRANCH, EXTEND & CONNECT 1" COLD WATER TO EACH WATER CLOSET FLUSH VALVE WITH INTEGRAL SERVICE STOP. PROVIDE WATER HAMMER ARRESTORS ABOVE CEILING AS SPECIFIED.

(P3) 3/4" COLD DOWN IN WALL. BRANCH, OFFSET THROUGH WALL FRAMING, EXTEND & CONNECT TO LAVATORY ASSEMBLY INTEGRAL THERMOSTATIC MIXING VALVE THROUGH FULL-PORT BALL VALVE AND 3/4"x1/2" REDUCER.

(P4) 3/4" HOT AND COLD WATER DOWN IN WALL. BRANCH, OFFSET THROUGH WALL FRAMING, EXTEND AND CONNECT TO JANITOR/SERVICE SINK FAUCET WITH INTEGRAL SERVICE STOPS THROUGH 3/4" X 1/2" REDUCERS.

(P5) KEMPER SPLITTER FLOW VALVE AND KEMPER BALL VALVES ABOVE CEILING FOR HOT WATER BRANCH LOOP. EXTEND 3/4" HOT WATER BRANCH LOOP PIPING DOWN IN WALL LOW, OFFSET THROUGH WALL FRAMING LOW, THEN ROUTE 3/4" HOT WATER BRANCH LOOP UP IN WALL AS INDICATED TO WITHIN 2 FEET OF LAVATORY SYSTEM THERMOSTATIC MIXING VALVE. REFERENCE DETAIL "N", SHEET P3.0. BRANCH, OFFSET, EXTEND AND CONNECT TO LAVATORY SYSTEM THERMOSTATIC MIXING VALVE THROUGH FULL-PORT BALL VALVE AND 3/4"x1/2" REDUCER.

(P6) 1/2" COLD WATER DOWN IN WALL. BRANCH, OFFSET THROUGH WALL FRAMING, EXTEND & CONNECT TO WATER COOLER THROUGH KEYED ANGLE-STOP SUPPLY.

(P7) 1/2" HOT WATER DOWN IN WALL. BRANCH, EXTEND & CONNECT TO LAVATORY/SINK FAUCET THROUGH KEYED ANGLE-STOP SUPPLY. PROVIDE POINT-OF-USE MIXING VALVE (MVP) WITH 1/2" HOT AND COLD WATER BRANCH PIPING AND INLINE STOP VALVES LOW ON WALL. COORDINATE ROUGH-IN WITH LAVATORY ADA APRON (TRUEBRO LAVSHIELD).

(P8) 3/4" HOT AND COLD WATER DOWN IN WALL. PROVIDE 1/2" TIE-BACKS LOW IN WALL; BRANCH, OFFSET AND EXTEND UNDERSLAB STUB-UP, EXTEND UP THROUGH MILLWORK AND CONNECT TO SINK FAUCET AS NOTED.

(P9) 1/2" HOT AND COLD WATER STUB-UP FROM UNDER COUNTER. BRANCH, OFFSET THROUGH MILLWORK, EXTEND AND CONNECT TO SINK FAUCET THROUGH KEYED ANGLE-STOP SUPPLIES. PROVIDE POINT-OF-USE MIXING VALVE (MVP) WITH 1/2" HOT AND COLD WATER BRANCH PIPING AND INLINE STOP VALVES UNDER COUNTER.

(P10) 1" COLD WATER DOWN IN WALL/CHASE. BRANCH, EXTEND AND CONNECT TO WATER CLOSET FLUSH VALVE WITH INTEGRAL SERVICE STOP; PROVIDE WATER HAMMER ARRESTER AS REQUIRED.

(P11) GAS PRESSURE REGULATOR (5 PSI TO OUNCES) 200 CFH CONNECTED LOAD.

(P12) REFERENCE SHEET ME1.1 SITE PLAN FOR CONTINUATION.

(P13) 3/4" COLD WATER DOWN IN CHASE; BRANCH, OFFSET THROUGH CHASE/WALL, EXTEND AND CONNECT TO BACKFLOW-PROTECTED FREEZEPROOF SHELTER WALL FAUCET (WFS).

(P14) BRANCH, EXTEND AND CONNECT TO DOAS-H1 THROUGH FULL-PORT BALL VALVE, 12" DRIP LEG WITH THREADED CAP, REDUCER AND EPOXY-COATED CORRUGATED FLEXIBLE PIPING CONNECTOR WITH ADAPTER. ROUGH-IN AND CONNECT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTALLATION INSTRUCTIONS AND PIPING DIAGRAMS.

(P15) SECURE GAS PIPING TO WALL WITH 2-HOLE PIPE STRAPS AND STAINLESS STEEL HARDWARE. PREP, PRIME AND PAINT ALL TO MATCH ADJACENT WALL FINISHES.

CONTRACTOR NOTE:

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WATER & GAS PLAN

BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

14 JAN 2026

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PLUMBING FIXTURE SCHEDULE

FIXTURE DESIGNATION	FIXTURE TYPE	MANUFACTURER /MODEL	CONNECTIONS		ELEC. DATA	DESCRIPTION	ACCESSORIES/FEATURES
			SUPPLY	WASTE			
WCH	ACCESSIBLE FLOOR-MOUNTED FLUSH VALVE WATER CLOSET	KOHLER HIGHCLIFF LITE K-96057	1"CW	4"	--	VITREOUS CHINA, FLUSH VALVE, 17" RIM HEIGHT, FLOOR MOUNTED, 1 1/2" TOP SPUD, 1.28 GALLONS PER FLUSH, ELONGATED BOWL, SIPHON JET, 12" ROUGH-IN, FULLY GLAZED TRAP-WAY	BEMIS 1955C OR BENEKE 533 OPEN-FRONT ELONGATED SEAT WITH SELF-SUSTAINING STAINLESS STEEL CHECK HINGE; SLOAN 111-1.28 (MID-LEVEL) MANUAL FLUSH VALVE WITH SYNTHETIC DIAPHRAGM AND DUAL-FILTERED BYPASS; WHITE SNAP-ON BOLT CAPS
WC	FLOOR-MOUNTED FLUSH VALVE WATER CLOSET	KOHLER WELLCOMME K-96053	1"CW	4"	--	VITREOUS CHINA, FLUSH VALVE, STANDARD RIM HEIGHT (15"), FLOOR MOUNTED, 1 1/2" TOP SPUD, 1.28 GALLONS PER FLUSH, ELONGATED BOWL, SIPHON JET, 12" ROUGH-IN, FULLY GLAZED TRAP-WAY	BEMIS 1955C OR BENEKE 533 OPEN-FRONT ELONGATED SEAT WITH SELF-SUSTAINING STAINLESS STEEL CHECK HINGE; SLOAN 111-1.28 (MID-LEVEL) MANUAL FLUSH VALVE WITH SYNTHETIC DIAPHRAGM AND DUAL-FILTERED BYPASS; WHITE SNAP-ON BOLT CAPS
UR	WALL-HUNG URINAL	KOHLER BARDON K-4991-ET	3/4"CW	2"	--	VITREOUS CHINA, WALL-HUNG, HIGH-EFFICIENCY 0.125-1.0 GALLONS PER FLUSH, 3/4" TOP SPUD, WASH-OUT FLUSHING ACTION, 14" ELONGATED RIM, INTEGRAL FULLY-GLAZED TRAP; MOUNT AT ADA/TAS ACCESSIBLE HEIGHT (REFER: ARCHITECTURAL INTERIOR ELEVATIONS)	SLOAN 186-1.0 (MID-LEVEL) MANUAL FLUSH VALVE WITH SYNTHETIC DIAPHRAGM AND DUAL-FILTERED BYPASS; JOSAM 17560-UR OR WADE 400-AM11 CARRIER; WHITE SNAP-ON BOLT CAPS.
URH	ACCESSIBLE WALL-HUNG URINAL	KOHLER BARDON K-4991-ET	3/4"CW	2"	--	VITREOUS CHINA, WALL-HUNG, HIGH-EFFICIENCY 0.125-1.0 GALLONS PER FLUSH, 3/4" TOP SPUD, WASH-OUT FLUSHING ACTION, 14" ELONGATED RIM, INTEGRAL FULLY-GLAZED TRAP; MOUNT AT ADA/TAS ACCESSIBLE HEIGHT (REFER: ARCHITECTURAL INTERIOR ELEVATIONS)	SLOAN 186-1.0 (MID-LEVEL) MANUAL FLUSH VALVE WITH SYNTHETIC DIAPHRAGM AND DUAL-FILTERED BYPASS; JOSAM 17560-UR OR WADE 400-AM11 CARRIER; WHITE SNAP-ON BOLT CAPS.
WFS	FREEZELESS WALL FAUCET-STORM SHELTER	WOODFORD MODEL 65	3/4"CW	--	--	FREEZELESS, AUTOMATIC DRAINING, BACKFLOW PREVENTER, CHROME PLATED BRASS, LOOSE TEE KEY, 3/8" SOLID BRASS OPERATING ROD.	BACKFLOW-PROTECTED PER ASSE-1011; ASSE-1019-B APPROVED.
TP	GRAVITY AUTOMATIC TRAP SEAL PROTECTION ASSEMBLY	JAY R SMITH WATERSAVER PRIME-EZE TRAP PRIMER SET	--	1 1/4"/ 1 1/2"	--	WATER SAVER LAVATORY/SINK TRAP PRIMER SET WITH 17 GAUGE POLISHED BRASS CHROME-PLATED P-TRAP WITH CLEANOUT.	1/2" STAINLESS STEEL PRIMER TUBE; COMPRESSION FITTING FOR WALL WASTE CONNECTION; 1 1/4" AND 1 1/2" TAILPIECE ADAPTER; STAINLESS STEEL SET SCREW ESCUTCHEONS.
SKA	SELF-RIMMING DROP-IN DEEP COUNTER SINK	ELKAY DLR252212	1/2"CW 1/2"HW	1 1/2"	--	25"x 22"x12" DEEP, TYPE 304L STAINLESS STEEL, 18 GAUGE SINGLE COMPARTMENT, SELF-RIMMING DROP-IN, FULLY- COATED UNDERSIDE, THREE (3) HOLE DRILLING.	ELKAY LKD232SBH5C FAUCET WITH 4" WRIST BLADE HANDLES AND HI-ARC GOOSENECK SPOUT; KEYED ANGLE-STOP SUPPLIES WITH FLEXIBLE RISERS; LK-35 DRAIN WITH DUO STRAINER; 17 GAUGE C.P.B. P-TRAP WITH CLEANOUT
SKAH	ACCESSIBLE SELF-RIMMING DROP-IN COUNTER SINK	ELKAY DLR252265	1/2"CW 1/2"HW	1 1/2"	--	25"x 22"x6 1/2" DEEP, TYPE 304L STAINLESS STEEL, 18 GAUGE SINGLE COMPARTMENT, SELF-RIMMING DROP-IN, FULLY- COATED UNDERSIDE, THREE (3) HOLE DRILLING.	ELKAY LKD232SBH5C FAUCET WITH 4" WRIST BLADE HANDLES AND HI-ARC GOOSENECK SPOUT; KEYED ANGLE-STOP SUPPLIES WITH FLEXIBLE RISERS; LK-35 DRAIN WITH DUO STRAINER; 17 GAUGE C.P.B. P-TRAP WITH CLEANOUT, WHITE ADA INSULATION KIT.
JS	TERRAZZO BASIN FLOOR-MOUNTED MOP SINK	WILLIAMS SB-902-L/R-BP	1/2"CW 1/2"HW	3"	--	24" x 24" x 12" DEEP WITH PRECAST STAINLESS STEEL CAP, STAINLESS STEEL BACK PANELS, NICKEL BRONZE STRAINER AND TILE FLANGES	ET-15-VB POLISHED CHROME-PLATED SINK FITTING, T-35 HOSE/HOOK, T-40 HANGAR, AND 3" CAST-IRON DEEP-SEAL P-TRAP; STAINLESS STEEL BACK PANELS. (COORDINATE REQUIRED STAINLESS STEEL CAP ORIENTATION WITH ARCHITECTURAL PLANS PRIOR TO ORDER.)
LHA	ACCESSIBLE WALL-HUNG LAVATORY SYSTEM -THREE USERS	ACORN MERIDIAN CORTERRA KURVE 3793-1-H	3/4"CW 3/4"HW	1 1/2"	--	WALL HUNG ADA COMPLIANT LAVATORY SYSTEM FOR THREE USERS WITH BOWL, SPRAYHEAD AND PEDESTAL END CAPS CONSTRUCTED OF SOLID-SURFACE POLYESTER RESIN WITH ALUMINUM TRIHYDRATE AND OTHER FILLERS RESISTANT TO CHEMICALS, STAINS, BURNS AND IMPACT. SYSTEM SHALL BE SECURED TO A HEAVY GAUGE 300 SERIES STAINLESS STEEL MOUNTING FRAME SUPPORT BASE SECURELY MOUNTED TO THE WALL. (PROVIDE BACKING PLATES/BLOCKING AS REQUIRED) MOUNT AT ADA ACCESSIBLE HEIGHT (REFER: ARCHITECTURAL INTERIOR ELEVATIONS). COLOR SELECTION BY ARCHITECT FROM FULL LINE OF AVAILABLE COLORS.	PROVIDE THE FOLLOWING ACCESSORIES: 1. THREE (3) SPRAY HEAD MODULE EQUIPPED WITH INDIVIDUAL AERATORS SERVED BY SEPARATE PNEUMATIC PUSH-BUTTONS THAT ACTIVATE A NON-HOLD-OPEN METERING SINGLE TEMPERATURE VALVE WITH FIELD ADJUSTABLE TIMING. 2. ASSE 1070 COMPLIANT PRE-PIPED THERMOSTATIC MIXING VALVE ASSEMBLY 3. 17 GA POLISHED CHROME-PLATED P-TRAP WITH CLEANOUT 4. 3/4"x1/2" REDUCERS
EWCH	WALL-HUNG BI-LEVEL ACCESSIBLE WATER COOLER	ELKAY LMABFTLBWSSK	1/2"CW	1 1/2"	120V	ALL 304L STAINLESS STEEL VANDAL-RESISTANT BI-LEVEL WALL-HUNG ELECTRIC WATER COOLER WITH BOTTLE FILLING STATION AND FILTER, FRONT AND SIDE PUSH-BUTTON ACTIVATION, 8.0 GPH, 370 WATTS, 120V; MOUNT AT ADA ACCESSIBLE HEIGHT PER ARCHITECTURAL INTERIOR ELEVATIONS	VANDAL-RESISTANT BUBBLER; EZH20 ELECTRONIC BOTTLE FILLING STATION; LKAPREZL APRON; WADE CHAIR CARRIER WITH WALL BRACKET; KEYED ANGLE-STOP SUPPLY; 17 GAUGE C.P.B. P-TRAP WITH CLEANOUT. PROVIDE (6) SIX SPARE FILTERS.
FD	FLOOR DRAIN	WADE 1100-G8-1-179 OR JOSAM 30000-7A-50-17	--	PER PLANS	--	CAST-IRON BODY; 8" x 8" SQUARE SATIN NICKEL BRONZE STRAINER AND VANDAL PROOF HARDWARE	1/2" TRAP PRIMER TAPPING WITH PLUG; VANDAL-PROOF HARDWARE. PROVIDE DEEP-SEAL CAST-IRON P-TRAP, RE: PLANS FOR PIPE SIZE.
TG	MECHANICAL TRAP SEAL PROTECTION DEVICE	PROSET TRAP GUARD	--	PER PLANS	--	ELASTOMERIC, NORMALLY CLOSED DROP-IN DEVICE TO PREVENT EVAPORATION OF THE TRAP SEAL; OPENS WITH FLUID	SIZE AS APPLICABLE PER PLANS
TP	GRAVITY AUTOMATIC TRAP SEAL PROTECTION ASSEMBLY	JAY R SMITH WATERSAVER PRIME-EZE TRAP PRIMER SET	--	1 1/4"/ 1 1/2"	--	WATER SAVER LAVATORY/SINK TRAP PRIMER SET WITH 17 GAUGE POLISHED BRASS CHROME-PLATED P-TRAP WITH CLEANOUT.	1/2" STAINLESS STEEL PRIMER TUBE; COMPRESSION FITTING FOR WALL WASTE CONNECTION; 1 1/4" AND 1 1/2" TAILPIECE ADAPTER; STAINLESS STEEL SET SCREW ESCUTCHEONS.
LH	ACCESSIBLE WALL-HUNG LAVATORY	KOHLER GREENWICH K-2030-8	1/2"CW 1/2"HW	1 1/4"	--	20" x 18", VITREOUS CHINA, WALL-HUNG, REAR OVERFLOW, SELF-DRAINING DECK AREA, 8" CENTERSET FAUCET HOLES, DRILLED FOR CONCEALED ARM CARRIER; MOUNT AT ADA ACCESSIBLE HEIGHT (REFER: ARCHITECTURAL INTERIOR ELEVATIONS)	KOHLER TRITON BOWE K-80070-5ANL FAUCET WITH 4" WRIST BLADE HANDLES AND GOOSENECK SPOUT; K-7608 RIGID KEYED ANGLE-STOP SUPPLIES; K-13885 OFFSET GRID DRAIN; K-9000 17 GAUGE P-TRAP WITH CLEANOUT; TRUEBRO LAVSHIELD WHITE ADA APRON; JOSAM 17100-M628 OR WADE 520-07-M19 CONCEALED ARM CARRIER; PROVIDE POINT-OF-USE MIXING VALVE (MVP).
WH-H1	FLOOR-MOUNTED STORAGE TANK ELECTRIC WATER HEATER	A.O. SMITH DEN-52	3/4"CW 3/4"HW	--	208V/1ø	50 GALLON STORAGE, 6000 WATT DUAL ELEMENTS FOR NON-SIMULTANEOUS OPERATION, 24 GPH RECOVERY AT 100° F RISE.	FACTORY-INSTALLED TERMINAL BLOCK; MANUAL RESET HI TEMP CUT-OFF ASME T&P RELIEF VALVE, ASME EXPANSION TANK AND HEAT TRAP AS DETAILED. INSTALL IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS AND PIPING DIAGRAMS
FDA	HEAVY-DUTY FLOOR DRAIN WITH DUCTILE IRON TRACTOR GRATE	WADE 1300TD-179 OR ZURN Z508Y	--	PER PLANS	--	CAST IRON BODY, ADJUSTABLE TOP, FLANGE, INTEGRAL CLAMPING COLLAR, 1/2" TRAP PRIMER TAPPING, SEDIMENT BUCKET, SEEPAGE OPENINGS, AND VANDAL-PROOF DUCTILE IRON TRACTOR GRATE WITH SECURITY SCREWS.	CAST-IRON DEEP-SEAL P-TRAP WITH 1/2" TRAP PRIMER TAPPING AND CAP.
HWC	HOT WATER CIRCULATOR	GRUNDFOS UPS 15-55 SFC	3/4"	--	115V/1ø	CENTRIFUGAL IN-LINE PUMP, ALL BRONZE, 1/12 HP, 15 GPM AT 7 FT. HD., FLANGED 3/4" CONNECTIONS.	TIME CLOCK FOR ON/OFF PROGRAMMING OF RECIRCULATING PUMP AND WATER HEATER(S) AS REQUIRED ASHRAE 90.1-2004/INTERNATIONAL ENERGY CONSERVATION CODE. TIME CLOCK SHALL BE EQUAL TO INTERMATIC ET1100 SERIES WITH 7-DAY PROGRAMMING CAPABILITY, 16 SETPOINT AVAILABILITY, AND LOCKABLE STEEL ENCLOSURE.
MVP	POINT-OF-USE THERMOSTATIC MIXING VALVE	SYMMONS MODEL 5-110-CK-X	1/2"CW 1/2"HW	--	--	MIXING VALVE FOR SINGLE FIXTURES, 0.5 GPM, MINIMUM FLOW, ALL BRONZE REMOVABLE PISTON AND THERMAL MOTOR, ROUGH BRONZE FINISH WITH COMPRESSION 3/8" INLETS AND OUTLET, WALL BRACKET.	PROVIDE 1/2" x 3/8" REDUCERS AND UNION ADAPTORS. PROVIDE AT ALL SINKS AND LAVATORIES.
WF	FREEZELESS WALL BOX FAUCET	WOODFORD MODEL B65	3/4"CW	--	--	FREEZELESS, AUTOMATIC DRAINING, BACKFLOW PREVENTER, FLUSH WALL BOX WITH KEYED DOOR, CHROME PLATED BRASS, LOOSE TEE KEY, 3/8" SOLID BRASS OPERATING ROD.	BACKFLOW-PROTECTED PER ASSE-1011; ASSE-1019-B APPROVED.
HB	INTERIOR BOXED HOSE BIBB	WOODFORD MODEL B74	3/4"CW	--	--	ANTI-SIPHON CLOSE-COUPLED WALL BOX HYDRANT, NIDEL 34HF VACUUM BREAKER, FLAT DOOR WITH POLISHED CHROME FINISH, 3/4" HOSE THREAD NOZZLE, LOOSE "TEE" KEY, FLUSH WALL BOX	BACKFLOW-PROTECTED PER ASSE-1011; ASSE-1019-B APPROVED.

* THE MECHANICAL CONTRACTOR SHALL COORDINATE THE EXACT VOLTAGE & PHASE OF EACH AND EVERY EQUIPMENT ITEM WITH THE ELECTRICAL CONTRACTOR, PRIOR TO ORDER.

ACCEPTABLE MANUFACTURERS:

WATER CLOSETS, URINALS, LAVATORIES – KOHLER, AMERICAN STANDARD, ZURN, SLOAN.

CARRIERS – JAY R. SMITH, ZURN, WATTS, JOSAM, WADE, MIFAB.

COUNTER SINKS – ELKAY, KOHLER, AMERICAN STANDARD, JUST.

LAVATORY/SINK ACCESSORIES (EXCLUDING FAUCETS) – MCGUIRE, MAINLINE, KOHLER, AMERICAN STANDARD, ZURN, DEARBORN, BRASSCRAFT.

FAUCETS AND TRIM – CHICAGO, KOHLER, AMERICAN STANDARD, ELKAY, ZURN, T & S BRASS, SPEAKMAN, MOEN, DELTA COMMERCIAL [CAST BRASS BODY].

LAVATORY ADA APRONS – TRUEBRO, PLUMBEREX

FLOOR DRAINS, CLEANOUTS – WADE, JOSAM, JAY R. SMITH, ZURN, MIFAB, WATTS.

P-TRAP & SUPPLY STOP INSULATION KITS – TRUEBRO, PLUMBEREX.

WATER HEATER – STATE, A.O. SMITH, LOCHINVAR, RHEEM/RUUD.

LAVATORY SYSTEMS – ACORN MERIDIAN CORTERRA KURVE ONLY TO MATCH EXISTING CAMPUS LAVATORY SYSTEMS.

PLUMBING LEGEND

SYMBOL	DESCRIPTION
—— - ——	DOMESTIC COLD WATER (CW)
—— -- ——	DOMESTIC HOT WATER (HW)
—— --- ——	DOMESTIC HOT WATER RETURN (HWR)
—— ||— —|| ——	SANITARY SEWER OR WASTE (SS OR W)
—— ------ ——	SANITARY VENT (V)
——o——	CLEAN OUT (CO)
——|——	CLEAN OUT – WALL (WCO)
——oo——	DOUBLE CLEAN OUT (DCO)
——⋈——	GATE VALVE
——⊕——	WALL FAUCET (WF) OR HOSE BIBB (HB)
—— G ——	GAS LINE (LESS THAN 1 PSI)
—— F ——	FIRELINE
——|——	STORM/ROOF DRAIN (SD)
——⊖——	FULL-PORT BALL VALVE
——||——	UNION
——⊘——	LUBRICATED PLUG COCK
——PR——	PILOT-OPERATED PRESSURE REDUCING VALVE (PRV)
——|⊢——	BUTTERFLY VALVE
——⋈——	O,S & Y GATE VALVE
——⊣——	NON-SLAM SWING CHECK VALVE
——S——	ELECTRIC AUTOMATIC SOLENOID VALVE
—— GW ——	GREASE WASTE (SERVICE-WEIGHT CAST-IRON PIPING WITH BUNA-N GASKET ONLY)
—— S/O ——	SAND/OIL WASTE (SW CAST-IRON BUNA-N GASKETS)
o⊢	VALVE IN VERTICAL
MPG	MEDIUM (INTERMEDIATE) PRESS GAS (1 PSI & UP)
FFCO	FINISHED FLOOR CLEAN OUT
U/S	UNDER SLAB
VTR	VENT THROUGH ROOF
AFF	ABOVE FINISHED FLOOR
RD	ROOF DRAIN
OFD	OVERFLOW DRAIN W/ STANDPIPE
FD(/TP)	FLOOR DRAIN (WITH TRAP PRIMER)
BFP	REDUCED PRESSURE BACKFLOW PREVENTER
TD	TRENCH DRAIN
O,S & Y	OUTSIDE, SCREW & YOKE GATE VALVE
DSN	DOWNSPOUT NOZZLE
WF	BACKFLOW-PROTECTED FREEZEPROOF WALL FAUCET
WFS	BACKFLOW-PROTECTED FREEZEPROOF STORM SHELTER WALL FAUCET
FS(TP)/(TG)	FLOOR SINK (WITH TRAP PRIMER)/(PROSET TRAP GUARD)
U/F	UNDERFLOOR
OFD	OVERFLOW ROOF DRAIN
MV	MIXING VALVE
WH	WATER HEATER
HWC	HOT WATER CIRCULATOR
FD(/TG)	FLOOR DRAIN (WITH PROSET TRAP GUARD)
VTR	VENT THROUGH ROOF

NOTE: NOT ALL SYMBOLS USED.

GENERAL PLUMBING NOTES:

1. CONTRACTOR SHALL COORDINATE EXACT PLUMBING FIXTURE TYPE, MOUNTING HEIGHT, ETC, WITH ARCHITECT & OWNER PRIOR TO ORDER, ROUGH-IN AND INSTALLATION.
2. ALL TOILET ROOM FLOOR DRAINS/SINKS SHALL BE SET TO 1" BELOW FINISHED SLAB ELEVATION AND ALL FLOORS SHALL SLOPE TO FLOOR DRAINS AND FLOOR SINKS UNLESS INDICATED OTHERWISE ON ARCHITECTURAL AND STRUCTURAL PLANS.
3. ALL PENETRATIONS THROUGH FLOORS (INCLUDING CHASES), FIRE WALLS AND FIRE PARTITIONS SHALL BE SLEEVED AND FIRE-STOPPED AS SPECIFIED AND AS SET FORTH IN UL FIRE RESISTANCE DIRECTORY, VOLUMES I AND II, LATEST EDITION.
4. ADA COMPLIANT FLUSH VALVE HANDLES FOR ACCESSIBLE WATER CLOSETS SHALL BE INSTALLED ON THE WIDE SIDE OF EACH TOILET STALL PER "ADA".
5. COORDINATE INSTALLATION OF PLUMBING FIXTURE CARRIERS WITH GENERAL CONTRACTOR. BLOCK-OUT STUDS AND/OR CMU BLOCKS WHERE REQUIRED TO CLEAR CARRIER RISERS, FLOOR SUPPORTS AND ARMS. PROVIDE SUPPORT BLOCKING IN WALLS AS REQUIRED FOR ANCHORING CARRIER UPRIGHTS AND WALL BRACKETS.
6. COORDINATE EXACT STACK LOCATIONS WITH FOOTINGS, COLUMNS AND STRUCTURAL FRAMING. RE: STRUCTURAL PLANS.
7. ALL WASTE PIPING UNDERSLAB SHALL BE 3" MINIMUM, INSTALLED AT 1/8" PER FOOT FALL. PROVIDE LONG SWEEP REDUCING ELBOWS AND REDUCING COMBINATIONS AT ALL 2" WASTE/VENT STACKS FOR LAVATORIES, WATER COOLERS, URINALS AND SINKS.
8. SLOPE ALL UNDERSLAB VENT PIPING BACK TO THE HORIZONTAL DRAIN PIPING TO WHICH IT CONNECTS.
9. ALL EXPOSED SPRINKLER PIPING IN ALL AREAS WITHOUT FINISHED CEILINGS SHALL BE CONCEALED AS MUCH AS POSSIBLE BEHIND FURRINGS, STRUCTURAL FRAMING, ETC. PREP, PRIME AND FINISH PAINT ALL EXPOSED FIRELINE AND SPRINKLER PIPING TO MATCH ADJACENT FINISHES AND STRUCTURE. "EXPOSED" SPRINKLER PIPING SHALL BE DEFINED AS ANY SPRINKLER PIPING NOT INSTALLED ABOVE FINISHED CEILINGS AND/OR CONCEALED IN FURRINGS. COORDINATE WITH ARCHITECTURAL PLANS, SECTIONS AND DETAILS PRIOR TO BID.
10. ALL EXPOSED GAS PIPING (INTERIOR AND EXTERIOR) SHALL BE PAINTED AFTER CLEANING WITH A WIRE BRUSH AND SOLVENT. PREP, PRIME AND PAINT AS SPECIFIED. PIPING EXPOSED TO NORMAL VIEW SHALL BE PAINTED TO MATCH ADJACENT BUILDING FINISHES AND/OR STRUCTURE AS DIRECTED BY ARCHITECT. PROVIDE (2) TWO COATS MINIMUM OF RUST-INHIBITING PRIMER AND (2) TWO COATS MINIMUM FINISH ENAMEL PAINT.
11. ALL VALVES AND PIPE CLEANOUTS SHALL BE INSTALLED ABOVE ACCESSIBLE (LAY-IN) CEILINGS; PROVIDE LOCKING PAINTED ACCESS PANELS OTHERWISE. FIELD COORDINATE EXACT LOCATIONS WITH OWNER, ARCHITECT AND ENGINEER PRIOR TO MATERIAL ORDER, ROUGH-IN AND INSTALLATION.
12. COORDINATE EXACT LOCATIONS OF WASTE & VENT STACKS WITH BUILDING FRAMING, BEAMS, ARCHITECTURAL FURRINGS/CHASES, FOOTINGS, ETC. RE: ARCHITECTURAL AND STRUCTURAL PLANS.
13. ALL WASTE AND VENT STACKS, ROOF/STORM DRAIN LEADERS, ETC., 3" AND LARGER SHALL BE INSTALLED IN 6" STUD WALLS, DOUBLE-STUD WALLS OR FURRINGS/CHASES. COORDINATE WITH GENERAL CONTRACTOR AND ARCHITECT ACCORDINGLY.
14. CONNECT ALL FLOW SWITCHES AND TAMPER SWITCHES TO FIRE ALARM SYSTEM. COORDINATE WITH ELECTRICAL CONTRACTOR AND FIRE ALARM SUPPLIER.
15. COORDINATE EXACT EQUIPMENT/LAB MILLWORK ROUGH-IN AND INSTALLATION REQUIREMENTS WITH OWNER AND ARCHITECT, AND WITH EQUIPMENT VENDOR'S INSTALLATION INSTRUCTIONS AND PIPING DIAGRAMS PRIOR TO MATERIAL ORDER, LAYOUT, ROUGH-IN, INSTALLATION AND CONNECTION. PROVIDE ALL ADAPTORS, REDUCERS, FERRULES, COPPER TUBING, BRANCH SUPPLY PIPING, TYPE "L" COPPER DRAIN PIPING, ETC AS DIRECTED BY VENDOR'S DATA AND AS REQUIRED FOR COMPLETE INSTALLATION OF ALL EQUIPMENT, MILLWORK, HOODS, APPLIANCES AND ACCESSORIES.
16. PLACE LOCATOR TAPE WITH THE NON-METALLIC PIPING UNDERGROUND. THE LOCATOR TAPE SHALL BE PLACED 12" BELOW FINISHED GRADE.
17. A MINIMUM OF FOUR INCHES OF FIELD SAND SHALL BE PLACED BENEATH THE SEWER PIPES AND UP TO THE SPRING LINE OF THE PIPES.
18. CONTRACTOR SHALL MAINTAIN MINIMUM 36" BURIAL DEPTH FOR ALL NEW WATER PIPING INSTALLATIONS.
19. NO PIPE OR FITTING WHICH CONTAINS MORE THAN 0.25% LEAD SHALL BE USED IN THE WATER DISTRIBUTION SYSTEM. SOLDER AND FLUX SHALL CONTAIN LESS THAN OR EQUAL TO 0.2% LEAD. ALL PIPES, PIPE FITTINGS, PLUMBING FIXTURES, ETC. SHALL MEET OR EXCEED THE REDUCED LEAD REQUIREMENTS OF ACT 362.
20. PROVIDE 2" WALL CLEANOUTS (WCO) UNDERCOUNTER, FINISHED FLUSH WITH MILLWORK BACK PANELS AT EACH SINK AND LAVATORY WASTE/VENT STACK.
21. CONTRACTOR SHALL FIELD VERIFY EXACT SIZE LOCATION, SERVICE, DEPTH, INVERT ELEVATION, ETC. OF ALL EXISTING PIPING AND UTILITIES PRIOR TO WORK OF ANY KIND. NOTIFY ARCHITECT/ENGINEER IMMEDIATELY OF SIGNIFICANT DISCREPANCIES.
22. PROVIDE UV RESISTANT NEOPRENE BOOTS WITH FLASHING AND COUNTERFLASHING PER ROOFING MANUFACTURER'S DETAILS AND INSTALLATION INSTRUCTIONS FOR ALL PIPE PENETRATIONS THROUGH ROOF. SLEEVE THROUGH ROOF DECK AND SEAL WEATHERTIGHT. PAINT ALL TO MATCH ROOF FINISHES.
23. ALL EQUIPMENT, PIPING, ETC. STORED ON SITE SHALL HAVE OPENINGS SEALED AND CAPPED UNTIL TIME OF INSTALLATION AND CONNECTION.

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STATE OF LOUISIANA
THOMAS GREGORY SANDERS
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING
01/14/2026

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318 425 4500
LOUISIANA Registered Engineering Firm #EF-5818
TEXAS Registered Engineering Firm #F-893

SUBMISSION OF BID WILL BE CONSIDERED ACKNOWLEDGEMENT THAT CONTRACTOR HAS REVIEWED THE CONSTRUCTION DOCUMENTS, VERIFIED ALL EXISTING JOB CONDITIONS AND INCLUDED ANY NECESSARY MODIFICATION TO EXISTING AND NEW WORK REQUIRED FOR INSTALLATION OF A COMPLETE AND WORKING SYSTEM.

5-188-1786-001

NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

PLUMBING FIXTURE SCHEDULE

BPSB PROJECT #26-02

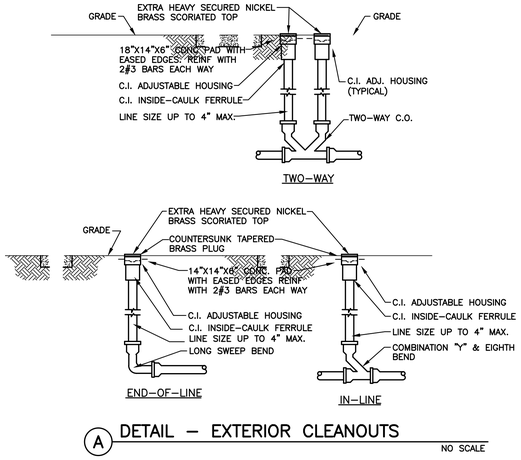
JOB NO. 2511

REVISIONS:

14 JAN 2026

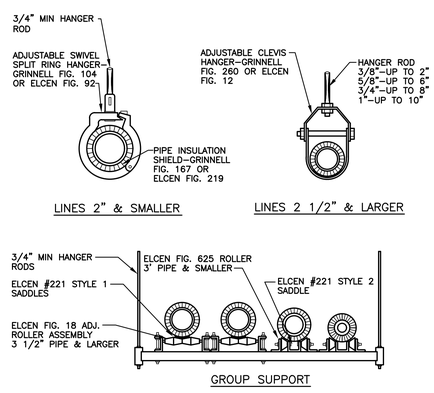
SHEET

P2.0



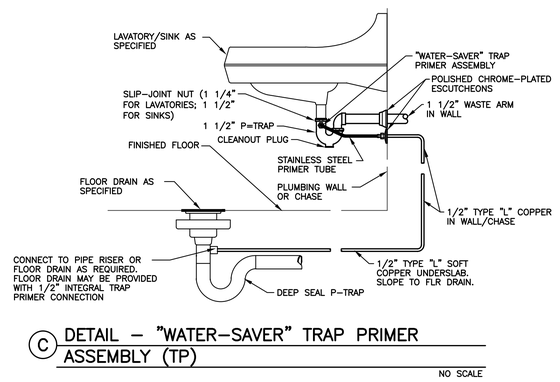
A DETAIL – EXTERIOR CLEANOUTS

NO SCALE



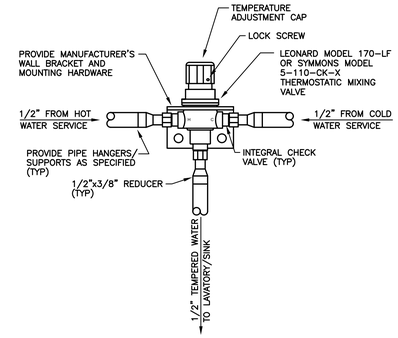
B DETAIL – PIPE SUPPORTS

NO SCALE



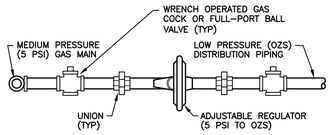
C DETAIL – "WATER-SAVER" TRAP PRIMER ASSEMBLY (TP)

NO SCALE



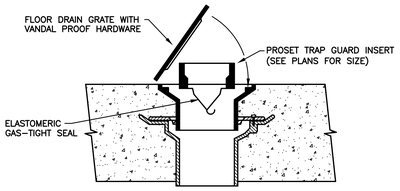
D DETAIL – POINT-OF-USE MIXING VALVE (MVP)

NO SCALE



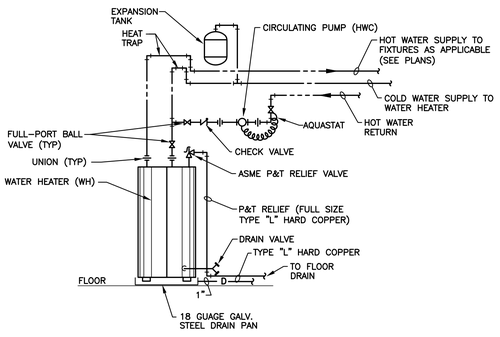
E DETAIL – REGULATOR STATION

NO SCALE



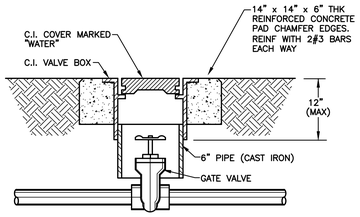
F DETAIL – TRAP GUARD (TG)

NO SCALE



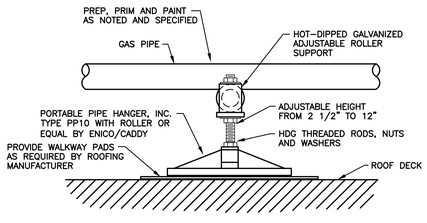
G DETAIL – FLOOR MOUNTED ELECTRIC WATER HEATER (W/CIRCULATOR)

NO SCALE



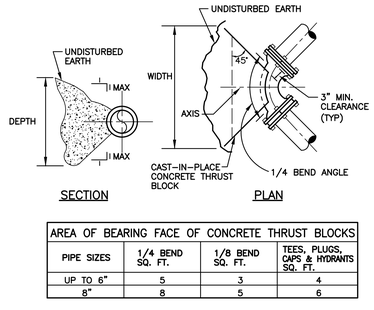
H DETAIL – VALVE & VALVE BOX

NO SCALE



K DETAIL – GAS PIPE SUPPORT ON ROOF

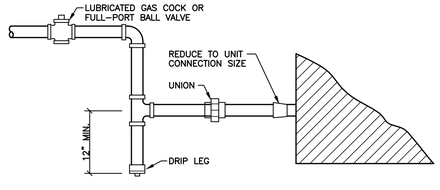
NO SCALE



AREA OF BEARING FACE OF CONCRETE THRUST BLOCKS			
PIPE SIZES	1/4 BEND SQ. FT.	1/8 BEND SQ. FT.	TEES, PLUGS, CAPS & HYDRANTS SQ. FT.
UP TO 6"	5	3	4
8"	8	5	6

L DETAIL – THRUST BLOCK

NO SCALE



M DETAIL – GAS CONNECTION

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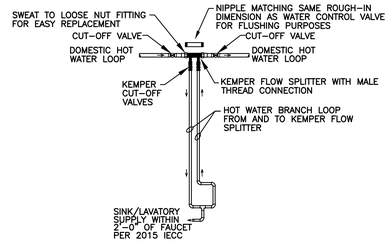

N KEMPER FLOW SPLITTER DETAIL

NO SCALE

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SHREVEPORT, LOUISIANA 71106
318 425 4500
LOUISIANA Registered Engineering Firm #EF-5818
TEXAS Registered Engineering Firm #F-893

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5-188-1786-001

NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

PLUMBING DETAILS

BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

14 JAN 2026

SHEET

P3.0

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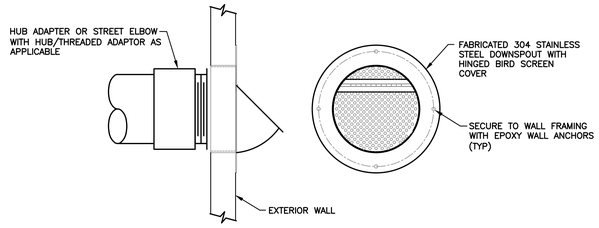
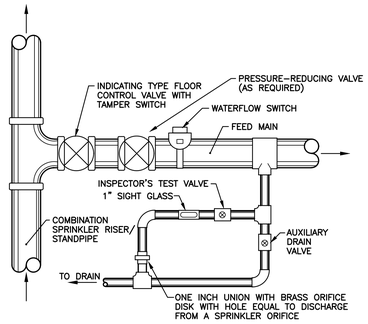


A DETAIL – DOWNSPOUT NOZZLE

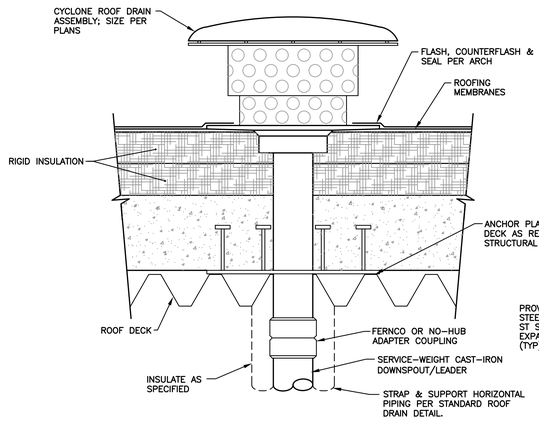
NOTE: INSTALL AND CONNECT IN STRICT ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS

NO SCALE



B DETAIL – TYPICAL FLOOR CONTROL VALVE

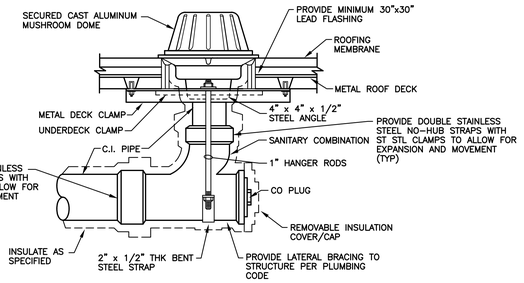
NO SCALE



C DETAIL – SHELTER ROOF DRAIN

NOTE: SHELTER OVERFLOW DRAINS SIMILAR.

NO SCALE



D DETAIL – ROOF DRAIN AND SUPPORT

(OVERFLOW DRAINS AND SHELTER ROOF/OVERFLOW DRAINS SIMILAR)

NO SCALE

E DETAIL – UNDERCOUNTER SOLIDS INTERCEPTOR

NOTE: AT CONTRACTORS OPTION, SOLIDS INTERCEPTOR MAY BE RECESSED IN FLOOR SLAB AND FINISHED FLUSH WITH BOTTOM OF CABINET.

NO SCALE

P1 PLUMBING RISER

NO SCALE

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STATE OF LOUISIANA
THOMAS CHRISTOPHER SAUNDERS
REGISTERED PROFESSIONAL ENGINEER
MECHANICAL ENGINEERING
01/14/2026

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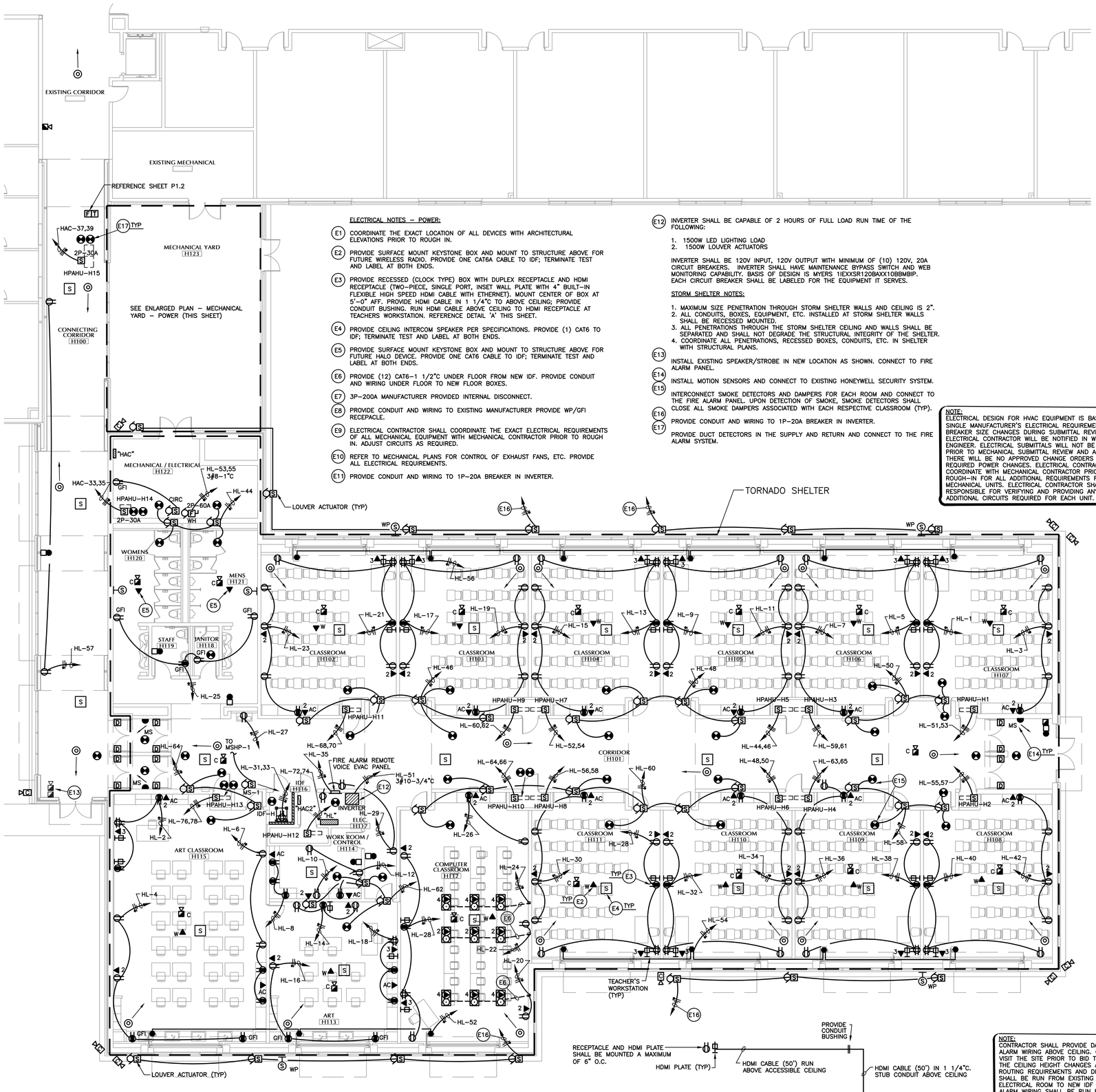


POWER PLAN

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

ELECTRICAL NOTES – POWER:

E1 COORDINATE THE EXACT LOCATION OF ALL DEVICES WITH ARCHITECTURAL ELEVATIONS PRIOR TO ROUGH IN.

E2 PROVIDE SURFACE MOUNT KEYSTONE BOX AND MOUNT TO STRUCTURE ABOVE FOR FUTURE WIRELESS RADIO. PROVIDE ONE CAT6A CABLE TO IDF; TERMINATE TEST AND LABEL AT BOTH ENDS.

E3 PROVIDE RECESSED (CLOCK TYPE) BOX WITH DUPLEX RECEPTACLE AND HDMI RECEPTACLE (TWO–PIECE, SINGLE PORT, INSET WALL PLATE WITH 4" BUILT–IN FLEXIBLE HIGH SPEED HDMI CABLE WITH ETHERNET). MOUNT CENTER OF BOX AT 5'–0" AFF. PROVIDE HDMI CABLE IN 1 1/4"C TO ABOVE CEILING; PROVIDE CONDUIT BUSHING. RUN HDMI CABLE ABOVE CEILING TO HDMI RECEPTACLE AT TEACHERS WORKSTATION. REFERENCE DETAIL 'A' THIS SHEET.

E4 PROVIDE CEILING INTERCOM SPEAKER PER SPECIFICATIONS. PROVIDE (1) CAT6 TO IDF; TERMINATE TEST AND LABEL AT BOTH ENDS.

E5 PROVIDE SURFACE MOUNT KEYSTONE BOX AND MOUNT TO STRUCTURE ABOVE FOR FUTURE HALO DEVICE. PROVIDE ONE CAT6 CABLE TO IDF; TERMINATE TEST AND LABEL AT BOTH ENDS.

E6 PROVIDE (12) CAT6–1 1/2"C UNDER FLOOR FROM NEW IDF. PROVIDE CONDUIT AND WIRING UNDER FLOOR TO NEW FLOOR BOXES.

E7 3P–200A MANUFACTURER PROVIDED INTERNAL DISCONNECT.

E8 PROVIDE CONDUIT AND WIRING TO EXISTING MANUFACTURER PROVIDE WP/GFI RECEPACLE.

E9 ELECTRICAL CONTRACTOR SHALL COORDINATE THE EXACT ELECTRICAL REQUIREMENTS OF ALL MECHANICAL EQUIPMENT WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH IN. ADJUST CIRCUITS AS REQUIRED.

E10 REFER TO MECHANICAL PLANS FOR CONTROL OF EXHAUST FANS, ETC. PROVIDE ALL ELECTRICAL REQUIREMENTS.

E11 PROVIDE CONDUIT AND WIRING TO 1P–20A BREAKER IN INVERTER.

E12 INVERTER SHALL BE CAPABLE OF 2 HOURS OF FULL LOAD RUN TIME OF THE FOLLOWING:

1. 1500W LED LIGHTING LOAD
2. 1500W LOUVER ACTUATORS

INVERTER SHALL BE 120V INPUT, 120V OUTPUT WITH MINIMUM OF (10) 120V, 20A CIRCUIT BREAKERS. INVERTER SHALL HAVE MAINTENANCE BYPASS SWITCH AND WEB MONITORING CAPABILITY. BASIS OF DESIGN IS MYERS 1IEXXSR120BAXX10BBMBIP. EACH CIRCUIT BREAKER SHALL BE LABELED FOR THE EQUIPMENT IT SERVES.

STORM SHELTER NOTES:

1. MAXIMUM SIZE PENETRATION THROUGH STORM SHELTER WALLS AND CEILING IS 2".
2. ALL CONDUITS, BOXES, EQUIPMENT, ETC. INSTALLED AT STORM SHELTER WALLS SHALL BE RECESSED MOUNTED.
3. ALL PENETRATIONS THROUGH THE STORM SHELTER CEILING AND WALLS SHALL BE SEPARATED AND SHALL NOT DEGRADE THE STRUCTURAL INTEGRITY OF THE SHELTER.
4. COORDINATE ALL PENETRATIONS, RECESSED BOXES, CONDUITS, ETC. IN SHELTER WITH STRUCTURAL PLANS.

E13 INSTALL EXISTING SPEAKER/STROBE IN NEW LOCATION AS SHOWN. CONNECT TO FIRE ALARM PANEL.

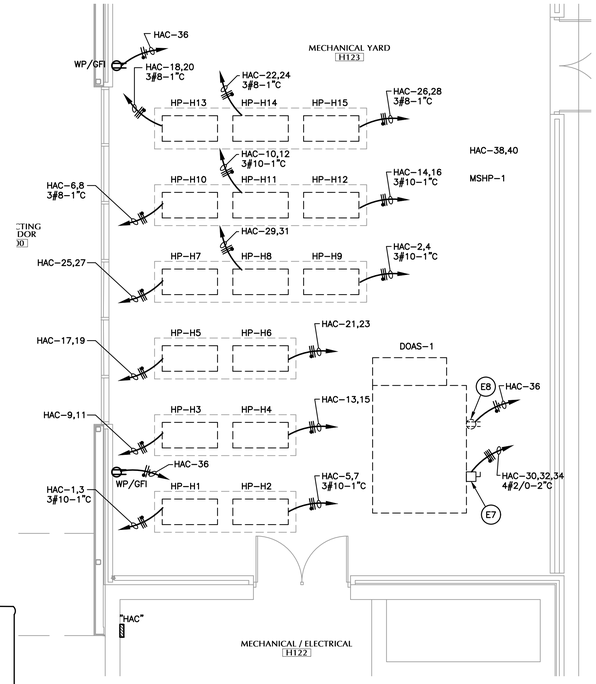
E14 INSTALL MOTION SENSORS AND CONNECT TO EXISTING HONEYWELL SECURITY SYSTEM.

E15 INTERCONNECT SMOKE DETECTORS AND DAMPERS FOR EACH ROOM AND CONNECT TO THE FIRE ALARM PANEL. UPON DETECTION OF SMOKE, SMOKE DETECTORS SHALL CLOSE ALL SMOKE DAMPERS ASSOCIATED WITH EACH RESPECTIVE CLASSROOM (TYP).

E16 PROVIDE CONDUIT AND WIRING TO 1P–20A BREAKER IN INVERTER.

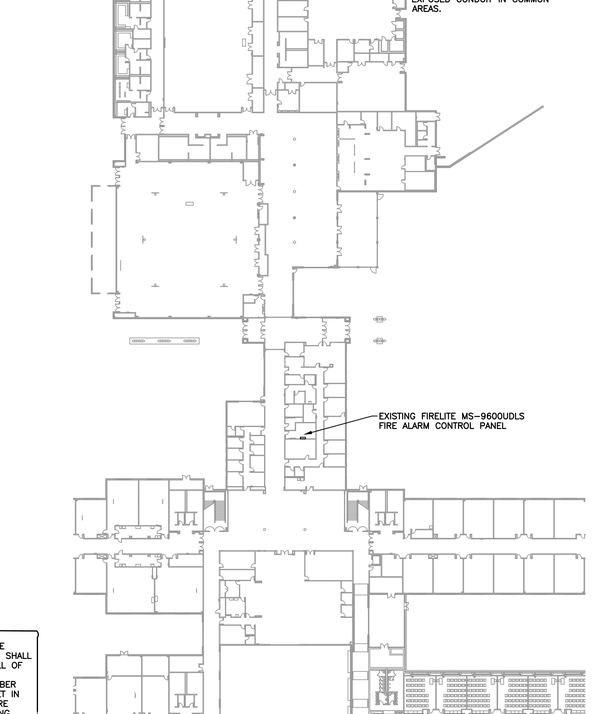
E17 PROVIDE DUCT DETECTORS IN THE SUPPLY AND RETURN AND CONNECT TO THE FIRE ALARM SYSTEM.

NOTE:
ELECTRICAL DESIGN FOR HVAC EQUIPMENT IS BASED ON A SINGLE MANUFACTURER'S ELECTRICAL REQUIREMENTS. IF BREAKER SIZE CHANGES DURING SUBMITTAL REVIEW, ELECTRICAL CONTRACTOR WILL BE NOTIFIED IN WRITING BY ENGINEER. ELECTRICAL SUBMITTALS WILL NOT BE RELEASED PRIOR TO MECHANICAL SUBMITTAL REVIEW AND AS SUCH THERE WILL BE NO APPROVED CHANGE ORDERS FOR REQUIRED POWER CHANGES. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH MECHANICAL CONTRACTOR PRIOR TO ROUGH–IN FOR ALL ADDITIONAL REQUIREMENTS FOR MECHANICAL UNITS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING AND PROVIDING ANY AND ALL ADDITIONAL CIRCUITS REQUIRED FOR EACH UNIT.



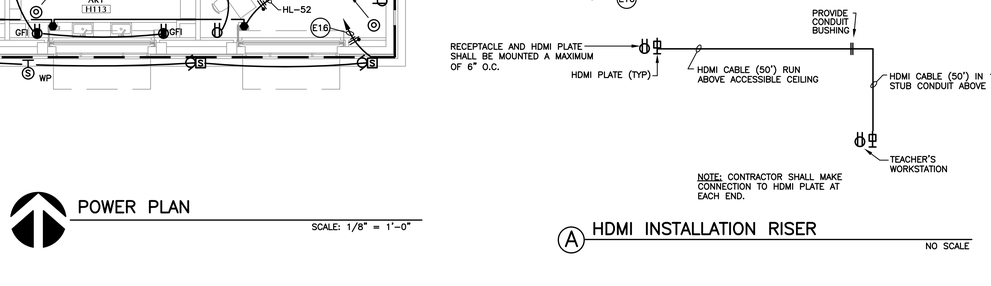
ENLARGED PLAN – MECHANICAL YARD – POWER

SCALE: 1/4" = 1'–0"



EXISTING FIRE ALARM PANEL/MDF LOCATIONS

NO SCALE



A HDMI INSTALLATION RISER

NO SCALE

NOTE:
CONTRACTOR SHALL PROVIDE DATA AND FIRE ALARM WIRING ABOVE CEILING. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BID TO VERIFY ALL OF THE CEILING HEIGHT CHANGES AND CABLE ROUTING REQUIREMENTS AND DISTANCES. FIBER SHALL BE RUN FROM EXISTING MDF CABINET IN ELECTRICAL ROOM TO NEW IDF CABINET. FIRE ALARM WIRING SHALL BE RUN FROM EXISTING FIRE ALARM PANEL TO NEW SUB–PANEL LOCATION (NO EXCEPTIONS).

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POWER PLAN

BPSB PROJECT #26-02

JOB NO. 2511

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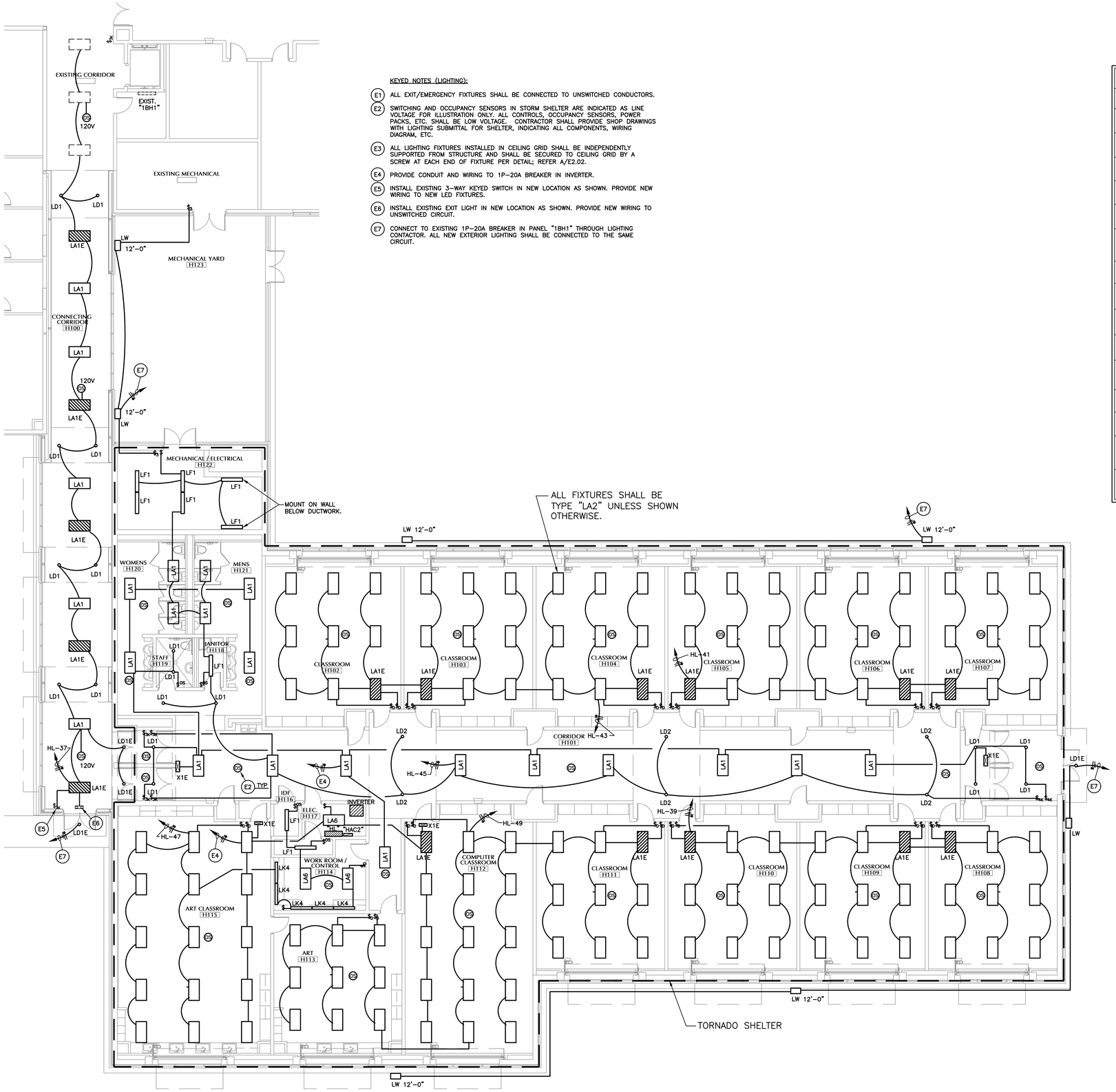


FLOOR PLAN – LIGHTING

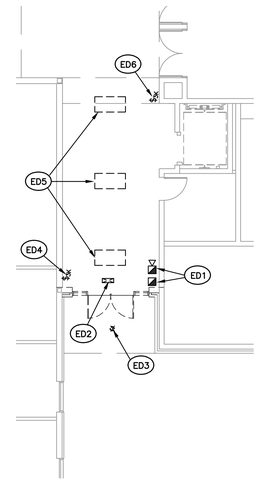
SCALE: 1/8" = 1'-0"

KEYED NOTES (LIGHTING):

- E1 ALL EXIT/EMERGENCY FIXTURES SHALL BE CONNECTED TO UNSWITCHED CONDUCTORS.
- E2 SWITCHING AND OCCUPANCY SENSORS IN STORM SHELTER ARE INDICATED AS LINE VOLTAGE FOR ILLUSTRATION ONLY. ALL CONTROLS, OCCUPANCY SENSORS, POWER PACKS, ETC. SHALL BE LOW VOLTAGE. CONTRACTOR SHALL PROVIDE SHOP DRAWINGS WITH LIGHTING SUBMITTAL FOR SHELTER, INDICATING ALL COMPONENTS, WIRING DIAGRAM, ETC.
- E3 ALL LIGHTING FIXTURES INSTALLED IN CEILING GRID SHALL BE INDEPENDENTLY SUPPORTED FROM STRUCTURE AND SHALL BE SECURED TO CEILING GRID BY A SCREW AT EACH END OF FIXTURE PER DETAIL; REFER A/E2.02.
- E4 PROVIDE CONDUIT AND WIRING TO 1P–20A BREAKER IN INVERTER.
- E5 INSTALL EXISTING 3–WAY KEYED SWITCH IN NEW LOCATION AS SHOWN. PROVIDE NEW WIRING TO NEW LED FIXTURES.
- E6 INSTALL EXISTING EXIT LIGHT IN NEW LOCATION AS SHOWN. PROVIDE NEW WIRING TO UNSWITCHED CIRCUIT.
- E7 CONNECT TO EXISTING 1P–20A BREAKER IN PANEL "1BH1" THROUGH LIGHTING CONTACTOR. ALL NEW EXTERIOR LIGHTING SHALL BE CONNECTED TO THE SAME CIRCUIT.

LIGHTING FIXTURE SCHEDULE

MARK	TYPE	MOUNTING	MANUFACTURER CATALOG NO.	LAMP TYPE	DESCRIPTION	ALTERNATE MANUFACTURER
LA1	2x4 LED TROFFER	CEILING RECESSED GRID	LITHONIA 2BLT448LADPEZ1LP835	3500K LED	ACRYLIC LENS; 5000 LUMENS; 0–10V DIMMING	COLUMBIA LCAT2435MLGEUED1
LA1E	2x4 LED TROFFER EMERGENCY	CEILING RECESSED GRID	LITHONIA 2BLT448LADPEZ1LP835 EL14L	3500K LED	ACRYLIC LENS; 5000 LUMENS; 0–10V DIMMING; 1400L BATTERY PACK	COLUMBIA LCAT2435MLGEUED1 ELL14
LA2	2x4 LED TROFFER	CEILING RECESSED GRID	LITHONIA 2BLT460LADPEZ1LP835	3500K LED	ACRYLIC LENS; 6000 LUMENS; 0–10V DIMMING;	COLUMBIA LCAT2435HLGEUED1
LA2E	2x4 LED TROFFER EMERGENCY	CEILING RECESSED GRID	LITHONIA 2BLT460LADPEZ1LP835 EL14L	3500K LED	ACRYLIC LENS; 6000 LUMENS; 0–10V DIMMING; 1400L BATTERY PACK	COLUMBIA LCAT2435HLGEUED1 ELL14
LAF	2x4 LED TROFFER	CEILING RECESSED GYPSUM	LITHONIA 2BLT440LADPLP835 DGA24	3500K LED	ACRYLIC LENS; 4000 LUMENS; FIXED OUTPUT; FLANGE KIT	COLUMBIA LCAT2435LWGEUFK24
LAFE	2x4 LED TROFFER EMERGENCY	CEILING RECESSED GYPSUM	LITHONIA 2BLT440LADPLP835 DGA24EL14L	3500K LED	ACRYLIC LENS; 4000 LUMENS; FIXED OUTPUT; FLANGE KIT; 1400 LUMEN BATTERY PACK	COLUMBIA LCAT2435LWGEUFK24 ELL14
LA6	2x4 LED TROFFER	CEILING RECESSED GRID	LITHONIA 2GTL448LLP835	3500K LED	ACRYLIC LENS; 4800 LUMENS	COLUMBIA LJT2435MLGFSA12125 EU
LD1E	LED 6" DOWNLIGHT EMERGENCY	CEILING RECESSED	LITHONIA LDN635/10LO6ARLSS MVOLTEZ10ELSD	3500K LED	1000 LUMENS; DIFFUSE LENS; SELF–DIAGNOSTIC BATTERY PACK	PRESCOLITE LC6SLDMEM16LCSL10L 35K8WTEMB24
LD2	LED 6" DOWNLIGHT	CEILING RECESSED GRID	LITHONIA LDN635/20LO6ARLSS MVOLTEZ10	3500K LED	2000 LUMENS; DIFFUSE LENS; BAR HANGERS	PRESCOLITE LC6SLDM6LCSL18L35K 8WTB24
LD2E	LED 6" DOWNLIGHT EMERGENCY	CEILING RECESSED GRID	LITHONIA LDN635/20LO6ARLSS MVOLTEZ10ELSD	3500K LED	2000 LUMENS; DIFFUSE LENS; BAR HANGERS SELF–DIAG BATTERY PACK	PRESCOLITE LC6SLDMEM6LCSL18L 35K8WTEMB24
LF1	LED STRIPLIGHT	CHAIN	LITHONIA CLXL483000LMSEFRDL WDMVOLTGZ1035K 80CRIWH	3500K LED	3000 LUMENS; WHITE; ROUND LENS; PROVIDE CHAIN HANGING KIT	COLUMBIA MPS435MWCWEDU
LK4	UNDERCABINET 48"	SURFACE	HEALTHCARE HUC546MVOLTLED350S LXGW	3500K LED	MATTE WHITE; 2000 LUMENS INTEGRAL OCCUPANCY SENSOR	WILLIAMS 1SF4L24835DMAOCCLV OSF10–10WUNV
LW	LED WALLPACK	WALL	LITHONIA TWPX2LEDP240KMVOLT	4000K LED	4250 LUMENS; HIGH ABUSE POLYCARBONATE LENS; WET LOCATION	
X1	EXIT SIGN–DIE CAST SINGLE FACE	CEILING/ WALL	LITHONIA LQMSW3RMVOLTELNSD	LED	NICAD BATTERY; FRONT DIFFUSER PLATE ARROWS AS REQUIRED; DIE CAST HOUSING; SELF–DIAGNOSTIC	DUALITE SESRWEI
X1E	EXIT SIGN–DIE CAST SINGLE FACE	CEILING/ WALL	LITHONIA LQMSW3RMVOLTSD	LED	AC ONLY; FRONT DIFFUSER PLATE ARROWS AS REQUIRED; DIE CAST HOUSING; SELF–DIAGNOSTIC	DUALITE SESRWI



EXISTING CORRIDOR PLAN – DEMOLITION

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

DEMOLITION NOTES:

- ED1 DISCONNECT AND REMOVE EXISTING PULL STATION AND SPEAKER/STROBE; RETAIN FOR RELOCATION.
- ED2 DISCONNECT AND REMOVE EXISTING EXIT SIGN; RETAIN FOR RELOCATION.
- ED3 DISCONNECT AND REMOVE EXISTING DOWNLIGHT COMPLETE TO SOURCE.
- ED4 DISCONNECT AND REMOVE EXISTING 3–WAY KEYED SWITCH; RETAIN FOR RELOCATION. PATCH AND PAINT WALL TO MATCH ADJACENT.
- ED5 DISCONNECT LIGHT FIXTURES FROM EXISTING CIRCUIT. RETAIN WIRING FOR RECONNECTION TO NEW CIRCUIT.
- ED6 EXISTING KEYED SWITCH TO REMAIN.

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FLOOR PLAN - LIGHTING PLAN

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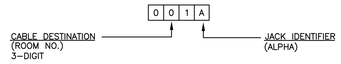
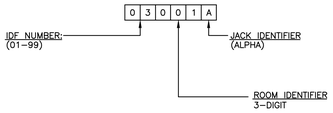
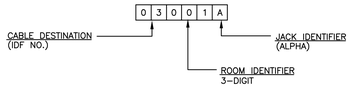
PATCH PANEL NAMING STANDARD
TELEPHONE AND INTERCOM



NETWORK CABLE NAMING STANDARD



OUTLET JACK LABELING STANDARD



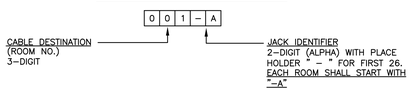
NOTES:

1. LABEL CABLE USING ONE LINE.
2. LABEL OUTLET JACK AND PATCH PANEL JACK USING TWO LINES.
3. USE SELF ADHESIVE LABELS WITH TYPEWRITTEN OR MACHINE-MARKED LEGENDS.
4. FOR ROOM IDENTIFIER, USE DESIGNATION ON DRAWINGS EXCEPT IN ADMINISTRATIVE, LIBRARY AND CAFETERIA AREAS WHERE "ADMIN", "LIBRY" AND "CAFE" SHALL BE USED.
5. RIGHT JUSTIFY ROOM IDENTIFIER AND IDF NUMBER AND USE ZERO'S AS PLACE HOLDERS AT LEFT AS REQUIRED.
6. WHEN IN DOUBT ABOUT ROOM IDENTIFIER, VERIFY WITH ENGINEER/ARCHITECT.

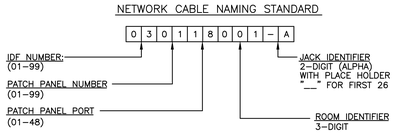
(A) TELEPHONE AND INTERCOM LABELING

NO SCALE

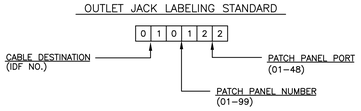
PATCH PANEL NAMING STANDARD
DATA ONLY



NETWORK CABLE NAMING STANDARD



OUTLET JACK LABELING STANDARD



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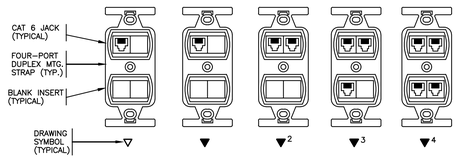
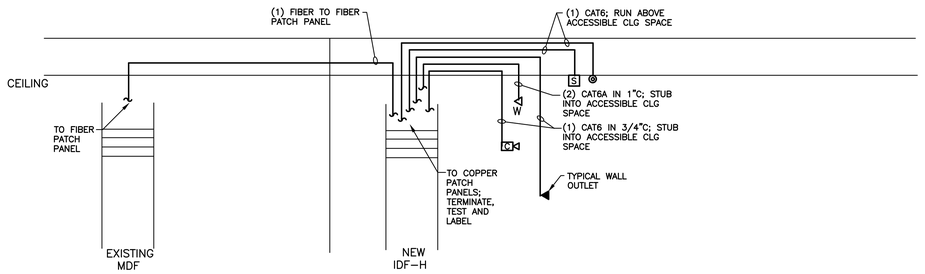
(B) DATA LABELING

NO SCALE



(C) COMMUNICATIONS OUTLETS DETAIL

NO SCALE



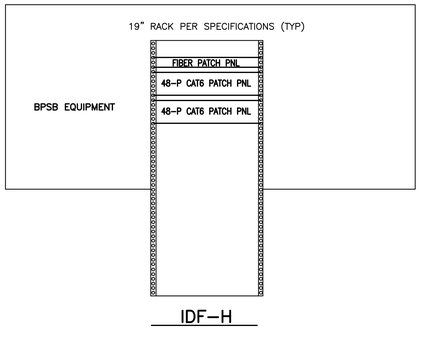
(D) COMMUNICATIONS RISER

NO SCALE

COMMUNICATION LEGEND	
SYMBOL	DESCRIPTION
▼	(1) CAT6; THREE BLANKS
▼AC	ABOVE COUNTER-(1) CAT6; THREE BLANKS
▼2	(2) CAT6; TWO BLANKS
▼3	(3) CAT6; ONE BLANK
▼4	(4) CAT6
▼W	(1) CAT6A
	FLUSH IN FLOOR BOX- (4) CAT6, 1 DUPLEX RECEPTACLE

ALL COMMUNICATION WIRING AND JACKS SHALL BE COLOR CODED AS FOLLOWS:

DATA	BLUE
WIRELESS	PURPLE
INTERCOM	YELLOW
CAMERAS	WHITE
HALO DEVICE	GREEN



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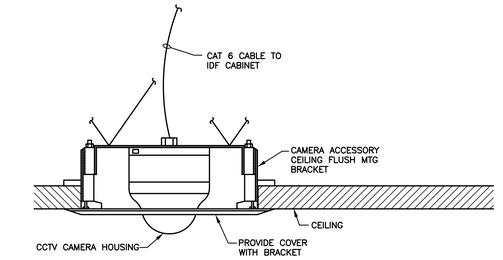
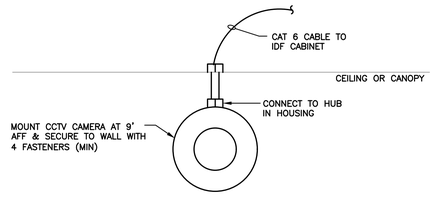


(A) CAMERA MOUNTING-LAY-IN CEILING

NO SCALE

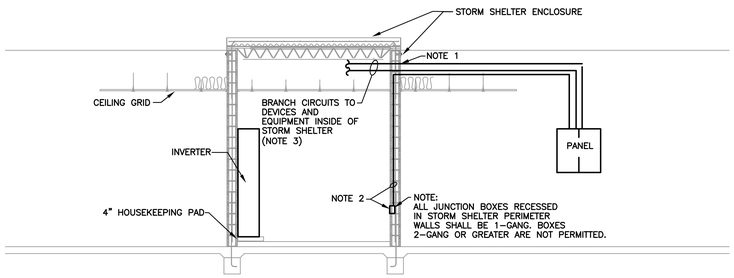
NOTES:
1. MOUNT AS PER MANUFACTURER'S INSTRUCTIONS.
2. LOCATE CCTV CAMERA SO THAT THE SECURITY WIRING BOX, ELECTRICAL BOXES, PANELS, CONDUITS, HVAC EQUIPMENT AND OTHER OBJECTS DO NOT OBSCURE THE CAMERA'S FIELD OF VIEW.



(B) CAMERA MOUNTING-WALL

NO SCALE

NOTES:
1. MOUNT AS PER MANUFACTURER'S INSTRUCTIONS.
2. LOCATE CCTV CAMERA SO THAT THE SECURITY WIRING BOX, ELECTRICAL BOXES, PANELS, CONDUITS, HVAC EQUIPMENT AND OTHER OBJECTS DO NOT OBSCURE THE CAMERA'S FIELD OF VIEW.
3. MOUNT CAMERA AS HIGH AS POSSIBLE UP TO A MAXIMUM OF 12"-0"AFF, BUT NOT LOWER THAN 90"AFF. DIMENSIONS ARE TO CENTERLINE OF CAMERA.



NOTES:

1. MAXIMUM SIZE PENETRATION THROUGH STORM SHELTER WALLS AND CEILING IS 2".
2. ALL CONDUITS, BOXES, EQUIPMENT, ETC. INSTALLED AT STORM SHELTER WALLS SHALL BE RECESSED MOUNTED.
3. ALL PENETRATIONS THROUGH THE STORM SHELTER CEILING AND WALLS SHALL BE SEPARATED AND SHALL NOT DEGRADE THE STRUCTURAL INTEGRITY OF THE SHELTER.
4. COORDINATE ALL PENETRATIONS, RECESSED BOXES, CONDUITS, ETC. IN SHELTER WITH STRUCTURAL PLANS.

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5-188-1786-001

NEW CLASSROOM / TORNADO SHELTER ADDITION for
BENTON HIGH SCHOOL
BOSSIER PARISH SCHOOL BOARD
449 FAIRBURN AVENUE
BENTON, LOUISIANA 71006

ELECTRICAL DETAILS

BOSSIER SCHOOLS "Win the Day!"

BPSB PROJECT #26-02

JOB NO. 2511

REVISIONS:

14 JAN 2026

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PANEL "HL"

22,000 AMPS. RMS. SYM. I.C. INTEGRATED EQUIPMENT RATING

208Y/120 VOLTS, 3 PHASE, 4 WIRE, 800 AMPS, MAIN LUGS

	SERVES	TRIP	A ø	B ø	C ø	TRIP	SERVES
	RECEPT CLASSROOM	20	1			20	RECEPT-ART
			3				
			5				
			7				RECEPT-WKRM
			9				COPIER
			11				RECEPT-WKRM
			13				RECEPT-ART
			15				
			17				
			19				COMPUTER CLSRM
			21				
			23				
	RECEPTACLES		25				
*	BOTTLE FILLER		27				RECEPT CLASSROOM
	RECEPTACLES		29				
	SERVER		31				
	SERVER		33				
##	VOICE EVAC		35				
	LTG-CONN CORR		37				
	LTG-CLSRMS		39				
			41				
			43				DAMPER ACTUATOR
	LTG-CORR,TLTS		45				
	LTG-ART CLSRM		47				
	LTG-ART CLSRM		49				
	INVERTER	30	51				SHUTTERS
##*	WATER HEATER	40/2	53				
			55				
	RECEPT	20	57				DAMPER ACTUATOR
	SPARE		59				
			61				
			63				
			65			30/2	SPARE
			67				
			69			20/2	SPARE
			71				
	PANEL "HAC"	600/2	73			20	SPARE
			75				
			77				
	PANEL "HAC2"	100/2	79				
			81				
			83				

* GFI BREAKER

BKR LOCK DEVICE

TOTAL CONN. LOAD _____ KVA

PANEL "HAC"

22,000 AMPS. RMS. SYM. I.C. INTEGRATED EQUIPMENT RATING

208Y/120 VOLTS, 3 PHASE, 4 WIRE, 600 AMPS, MAIN LUGS

SERVES	TRIP	A ø	B ø	C ø	TRIP	SERVES
HP-H1	30/2	1			30/2	HP-H9
		3				
HP-H2	30/2	5			30/2	HP-H10
HP-H3	20/2	7			35/2	HP-H11
		9				
HP-H4	20/2	11			30/2	HP-H12
		13				
HP-H5	20/2	15			35/2	HP-H13
		17				
HP-H6	20/2	19			35/2	HP-H14
		21				
HP-H7	20/2	23			35/2	HP-H15
		25				
HP-H8	20/2	27			175/2	DOAS
		29				
HPAHU-14	20/2	31			2	
		33				
HPAHU-15	20/2	35			20	MAINT. RECEPT
		37			30/2	MS-1, MSHP-1
SPARE	20	39				
		41			20	SPARE

TOTAL CONN. LOAD _____ KVA

PANEL "HAC2"

22,000 AMPS. RMS. SYM. I.C. INTEGRATED EQUIPMENT RATING

208Y/120 VOLTS, 3 PHASE, 4 WIRE, 125 AMPS, MAIN LUGS

SERVES	TRIP	A ø	B ø	C ø	TRIP	SERVES
HPAHU-1	15/2	1			30/2	HPAHU-8
		3				
HPAHU-2	15/2	5			30/2	HPAHU-9
		7				
HPAHU-3	15/2	9			35/2	HPAHU-10
		11				
HPAHU-4	15/2	13			30/2	HPAHU-11
		15				
HPAHU-5	15/2	17			35/2	HPAHU-12
		19				
HPAHU-6	15/2	21			35/2	HPAHU-13
		23				
HPAHU-7	15/2	25			35/2	SPARE
		27				
SPACE W/PROV		29			30/2	SPARE
		31				
		33			20	SPARE
		35				
		37				
		39				
		41				

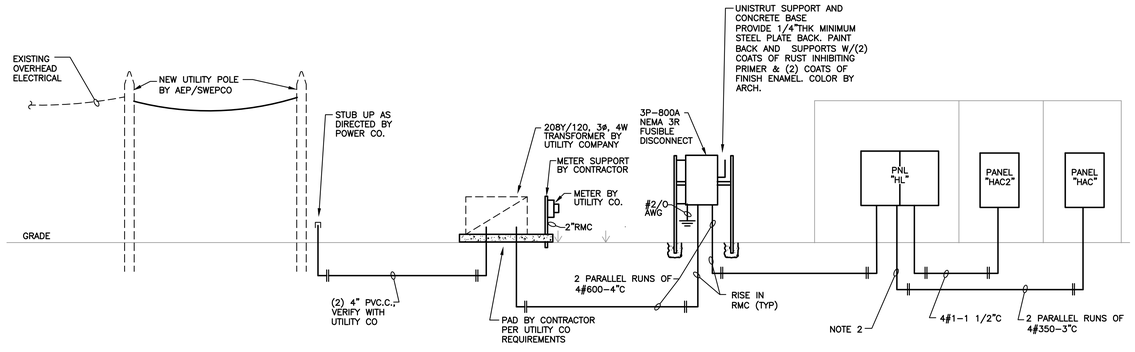
TOTAL CONN. LOAD _____ KVA

ELECTRICAL LEGEND

SYMBOL	DESCRIPTION
	GENERAL
	CONDUIT IN WALL OR ABOVE CEILING
	CONDUIT UNDER FLOOR OR UNDERGROUND
	ARROW INDICATES HOMERUN TICKMARKS: NEUTRAL, PHASE, GROUND
—T—	TELEPHONE CONDUIT
—E—	EMERGENCY CIRCUIT CONDUIT
	TELEPHONE TERMINAL BOARD (TTB)
	PANEL BOARD
	SPECIAL PANEL
;	JUNCTION BOX; FLUSH FLOOR JUNCTION BOX
F;	DISCONNECT SWITCH; FUSED; NONFUSED
	TV/MULTIMEDIA OUTLET
BD	BELL
IC	INTERCOM SYSTEM CALL STATION
S ; HCS	2X2 LAY-IN INTERCOM SPEAKER; WALL MOUNTED
	FLUSH FLOOR DUPLEX RECEPTACLE
	FLUSH FLOOR TELEPHONE/DATA OUTLET
	SPECIAL RECEPTACLE; VERIFY TYPE
	2 POLE; 3 WIRE RECEPTACLE
;	DUPLEX RECEPTACLE; ABOVE COUNTER
WP; GFI	WEATHERPROOF RECEPTACLE; GROUND FAULT
; IG	USB/DUPLEX RECEPTACLE; ISOLATED GROUND
CL	CLOCK RECEPTACLE
	QUAD PLEX RECEPTACLE
;	RAISED FLOOR RECEPTACLE; DATA OUTLET
M	GANGED FLOOR BOX
OS ; HCS	CEILING MOUNT OCCUPANCY SENSOR; WALL MOUNT
DL ; HCS	CEILING MOUNT DAYLIGHT SENSOR; WALL MOUNT
;	MOTOR; STARTER
M	MOTORIZED DAMPER
S	MOTOR TOGGLE SWITCH
SD	SMOKE DAMPER WITH DUCT DETECTOR
FSD	FIRE/SMOKE DAMPER WITH DUCT DETECTOR
HD	HAND DRYER
$; $3 ; $4 ; $C	SINGLE POLE SWITCH; 3-WAY; 4-WAY; CONTROL
$P ; $D ; $K	PILOT LIGHT; DIMMER; KEYED SWITCH
AFF ; C ; AC	ABOVE FINISHED FLOOR; CEILING MOUNTED; ABOVE CEILING

SYMBOL	DESCRIPTION
	FIRE ALARM
	PULL STATION
	FIRE ALARM SPEAKER/VISUAL DEVICE
	FIRE ALARM SYSTEM AUDIO/VISUAL SIGNAL
	FIRE ALARM SYSTEM VISUAL SIGNAL
	FIRE ALARM SMOKE DETECTOR
$_2$	FIRE ALARM CARBON MONOXIDE DETECTOR
$_S$	FIRE ALARM SMOKE DETECTOR WITH SOUNDER BASE
	FIRE ALARM HEAT DETECTOR
D	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR
D	DOOR HOLDER
FT	FLOW & TAMPER SWITCH
FACP	FIRE ALARM CONTROL PANEL
FARA	FIRE ALARM REMOTE ANNUNCIATOR
	SECURITY/ACCESS CONTROL
C	CAMERA (WALL MOUNTED)
MS	MOTION SENSOR
	CAMERA (CEILING MOUNTED)

** NOTE: SOME SYMBOLS MAY NOT BE USED. **



ELECTRICAL RISER

NOTES:
1. PROVIDE GROUNDING CONDUCTORS IN ALL FEEDER CONDUIT SIZED PER NEC.
2. ALL CONDUIT ENTERING BUILDING BELOW GRADE SHALL BE SEALED WITH A SEALANT IDENTIFIED FOR USE WITH CABLE OR CONDUCTOR INSULATION.

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