Section 3 Schematic Design Documents

3.6 Schematic Design Documents

3.6.1 Schematic Design Narrative - High School BASIS OF DESIGN

Building & Design Codes

The new 123,844 gsf Central Falls High School is designed in accordance with the 2015 International Building Code and the 2012 International Energy Conservation Code. The building is in compliance with the 2012 Rhode Island Fire Safety Code utilizing NFPA 1 and 101. The construction classification will be type 1B fully protected use group E. The building is four stories and fully sprinklered. The new school serves 751 students in grades 9–12.

Site Design Conditions

The site is located at the corner of Higginson Avenue and Lonsdale Avenue in Central Falls, Rhode Island. The site is approximately 13.1 acres. The site is served by Higginson Avenue along the north side and Lonsdale Avenue on the east side. The lower portion of the site is served by Moshassuck Ind. Highway on the west side. Commercial, retail, and residential properties abut the site to the north, west, and east, and wetlands and residential property abut the property to the south.

The site currently supports the existing Central Falls School District's stadium with track and field, along with a community baseball diamond, basketball courts, and concessions building. In addition, the site does include an existing building that contains programs to supplement the CTE programs offered by the District. The site steeply slopes upward toward the southeast corner where an existing retaining wall is used to level the topography from the higher residential area to the lower track and field. A wetland is established in the southwest corner of the site and will require a 200' setback protection area. The existing stadium with track and field will remain. In addition, the District is proposing the acquisition of the two parcels of 770 Lonsdale Avenue and 756 Lonsdale Avenue in order to extend the site to the intersection on Lonsdale Avenue and Higginson Avenue. These added parcels are roughly 6-7' above the grade of the existing entry onto the site along Higginson Avenue. To respect the grades of the existing streets and sidewalks, terracing and retaining walls will be used within the property lines.

Stormwater management provisions, including site swale, drainage

design, and water collection systems including rain gardens, are included in the project. Outdoor science labs and learning areas are incorporated into the site plan design. Natural landscape areas, including new rain gardens with water storage capacity, are provided on the site. Bicycle storage areas and electric vehicle charging stations are included in the site design.

Building Design Conditions

The building is four stories high and designed to meet a projected enrollment of 751 students in grades 9-12. The overall square footage is 123,844 square feet, which includes 19 general classrooms and 6 general science labs, a Learning Commons, Student Commons, Athletic Center including one full size gymnasium, Fitness Center, and a Performing Arts Center that will include a 375 seat Auditorium, band and choral classrooms, and fine arts classrooms. The new school will contain career technical pathways educational spaces including:

- Biomedical / Science
- Engineering / Robotics
- Community Health Clinic
- Community Law
- Computer Science
- Teaching Academy

The school contains a safe and secure main entry area flanked by administration, guidance, student support services, and Dean's offices. Special Education classrooms and support rooms are evenly distributed throughout the new school building.

The school is designed to meet Northeast Collaborative for High Performance Schools version 4.0 green school standards. The school has the opportunity to receive an additional 2% to 4% in additional reimbursement funds by demonstrating 30% to 50% energy and water reduction beyond code (see chart below).

Additional Reimbursement Funds	Reduction from RI Code (Anchored to IECC 2009)	Reduction from NE-CHPS (Based upon IECC 2012)
2%	30%	18% (11 points)
3%	40%	30% (18 points)
4%	50%	42%(22 points)

The District and Design Team are currently establishing the Energy Performance level for the project. The project is eligible to receive 12 to 40 points within the NE-CHPS Reduction Requirement, based upon IECC 2012, which is equivalent to 20% up to 100% (see chart below).

Points	NE-CHPS Reduction Requirement (IECC 2012)	zEPI Equivalent	Reduction from RI Code (Anchored to IECC 2009)
Prerequisite	10% minimum reduction	51	23.5%
12 points	20% minimum reduction	46	32%
18 points	30% minimum reduction	40	40.5%
22 points	40% minimum reduction	34	49%
25 points	50% minimum reduction	29	57.5%
28 points	60% minimum reduction	23	66%
31 points	70% minimum reduction	17	74.5%
34 points	80% minimum reduction	11	83%
37 points	90% minimum reduction	6	91.5%
40 points	100% minimum reduction (zero net-energy school)	0	100%

Thermal Insulation: Building Envelope

Window Systems

Window systems will be energy enhanced, thermally broken, aluminum curtainwall and aluminum storefront windows with both fixed and operable frames. Special thermal break material is provided to meet the required thermal performance and other criteria:

Fixed Window Frames: Air resistance: 6.24psf Water resistance: 15.00psf Uniform Structural Loading: 150psf Condensation Resistance: 75 (frame) & 67 (Glass)

Operable Window Frames: Air resistance: 6.24psf Water resistance: 15.00psf Uniform Structural Loading: 150psf Condensation Resistance: 55

Door Systems

Door systems are thermally broken aluminum storefront and curtainwall systems with the performance requirements outlined above. These systems have insulated aluminum doors with weatherstripping. Interior vestibules are provided at main and secondary building entrances. Egress only door system are thermally broken hollow metal frames, insulated hollow metal doors (16ga.) complete with semi-rigid fiberglass insulation core, U Value .48.

Glazing

Exterior glazing is 1" Low-E clear glass outer layer consisting of 1/4" thick heat-strengthened glass with Low-E sputter coating on the number 2 surface equal to PPG Solarban 60. The inner glazing layer is 1/4" thick clear heat-strengthened glass with an air space of 1/2" thickness. The air space is filled with 90% argon gas and 10% air. The 1" glazing assembly

has the following performance characteristics: Visible Transmittance: 72% Solar Heat Gain Coefficient: 0.40 Solar Blockage: 59% Reflectance (interior): 12% Reflectance (exterior): 11% U Value (winter): 0.30

Window Shades

Window Shades will be provided in all educational classroom spaces. The shade system are roller shades made with aluminum alloy 6063-T5 alloy with a wall thickness of 0.065 inch. Shade fabric is 63% PVC coated fiberglass and 37% fiberglass yarn woven into a 2 inch by 2 inch nondirectional basket weave with Micro-ban Protection. Shades will have a 5% openness factor.

Wall Insulation and Assembly

Exterior wall assembly consists of simulated wood laminated rainscreen cladding anchored to a metal support system, which accounts for an air space in front of the air and vapor barrier adhered to a premanufactured "nail-base." The nail-base assembly consists of 5/8" plywood, laminated to 2 inches of rigid insulation. 1-1/2" spray foam insulation is placed on the inside of the exterior metal studs at 16 inches on center, and 5/8" interior gypsum wallboard. The overall U value is 0.055. Spray Foam Insulation is to have the following properties:

- Density: 2.2 lbs/cf
- Compressive Strength: 26lbs/square inch
- Water Absorption: 1.6% by volume
- Water Vapor Transmittance: (2 inch thickness): 0.70 perms

Roof System

Overall roof assembly is 6.75 inches with 6 inches for an R-value of 36. The overall roof thermal performance is U0.026. Roofing system to provide coverage for maximum wind speed of 105 mph. Roofing manufacturer to provide a 25-year warranty for product quality, performance, and workmanship. Roofing system to be 60 Mil thick, PVC mechanically anchored sheet roofing system. System to obtain Fire Hazard "Class A" as described by the Underwriters Laboratory. Wind Loading shall conform to the 2012 IBC with State of Rhode Island amendments for wind speed and gust requirements.

Insulation will be polyisocyanurate foam insulation manufactured with HCFC-free blowing agent with LTTR R value of 5.6 per inch with minimum thickness of 6 inches and the following properties:

Density: 2.0 pounds per cubic foot

Compressive Strength: 20 psi

Moisture Vapor Transmittance: Less than 1 perm

Water Absorption: Less than 1 percent per volume

Overlayment recovery board is 5/8 inch thick, Class 1, non-structural glass mat faced, noncombustible water-resistant treated gypsum core panel. Vapor barrier is 10mil thick low-density polyethylene vapor

barrier/air barrier.

Natural Daylighting and View

A two-story interconnected Student Commons space has been designed with full height glass and curtainwall on the west side, flooding the student commons space and the adjacent fitness center with natural light. Prominent views are provided from the exterior into the Learning Commons.

STRUCTURAL SYSTEMS & EARTHQUAKE COMPLIANCE

Building Description

The new building is intended to follow the following criteria:

- No basement spaces.
- The first-floor level may consist of interior grade beams spanning between pile caps supporting a two-way structural slab, or a robust, steel bar reinforced concrete slab to compensate for poor soils.
- The roofs will be constructed with metal deck and structural steel/ joists/trusses pitched to internal roof drains. Roof pitch shall not be less than 1/4" per foot. Tapered insulation may be required in some locations.
- Second through Fourth floor levels will consist of steel beams and girders supporting a concrete slab-on-composite metal deck.
- Elevator shafts will be constructed with CMU. Stairwells will be constructed with gypsum board and/or glass.
- A large clear span will be required for the auditorium floor over the gym below.

Building Codes and Standards

All structural design criteria for the building will be based on the latest building codes and standards listed below, and by criteria specified by the owner and architect.

- Rhode Island Building Code: 2018 International Building Code (IBC) with state amendments and referenced standards.
- American Institute of Steel Construction (AISC), Specifications and its Code of Standard Practice.
- American Concrete Institute Building Code Requirements for Reinforced Concrete, ACI 318.
- American Concrete Institute Building Code Requirements for Concrete Masonry Structures, ACI 530 and ACI 530.1.
- Steel Joist Institute (SJI) and Steel Deck Institute (SDI) design standards.
- AISC Design Guide 11 Floor Vibrations for Human Activity.

Construction Materials

Concrete*:

Typical, U.N.O.: 4000 PSI 3/4" aggregate 0.45 Max W/C Ratio

Slab-on-deck: 3000 PSI 3/4" aggregate 0.48 Max W/C Ratio

Concrete shall be normal-weight except that slabs-on-metal-deck shall be lightweight.

Interior slabs-on-grade have a Moisture Vapor Reduction Admixture (Barrier One).

*Exterior Concrete shall be air-entrained. Lightweight concrete used for slabs-on-metal deck shall also be air-entrained.

Concrete Reinforcing:

Deformed Bars	ASTM A615 or A706, GR. 60
Welded Wire Fabric	ASTM A185

Masonry materials:

Compressive strength (f'm)	1,900 psi
Mortar	ASTM C270 Type M or S (load-bearing) or N (non
	load-bearing)
Deformed bars	ASTM A615 or A706, Grade 60
Grout compressive strength	2,500 psi
Joint Reinforcement	ASTM A1064, Extra Heavy Duty Ladder Type,
	Hot-dipped galvanized, 3/16" side rods & 9 ga.
	cross rods

Steel Members**:

Structural Steel	A572 or A992 GR. 50	FY=50KSI
Typical Plates and Angles	ASTM A36	FY=36KSI
Structural Tubing (rectangular)	ASTM A500, GR. B	FY=46KSI
High Strength Bolts	ASTM F3125 (GR. A325 Type I)	FY=92KSI
Drill & Epoxy Anchors	A449	FY=92KSI
Cast-In-Place Anchor Rods	F1554	FY=36KSI

** All exterior steel framing, connections, and components shall be hotdipped galvanized.

Design Criteria

Building Risk Category (IBC Table 1604.5)

Risk Category III (Group E occupancy with occupant load > 250). For the purposes of this narrative, the building was not considered an emergency or recovery shelter.

Dead Load (DL)

The dead load includes the weight of structure, structural components, equipment, machinery, conduits, piping, ducts, insulation and any item permanently attached to or supported by the structure. Self-weight of framing will be included in calculations/models and is not listed below.

Uniform floor loads: Concrete on Deck (light-weight concrete), typical 42 psf (3.25" on 2" deck = 5.25") 18 ga. Composite Metal Floor Deck 2.5 psf Concrete Ponding 5 psf Floor Finishes, typical 5 psf

Floor Finishes – tiled areas Drop Ceiling MEP Allowance (typical)	10 psf 2 psf 5 psf
Additional floor loads (where applicable): Elevated seating construction Weight of CMU partitions and op	erable partitions shall be included.
Uniform roof loads:	

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Roof Deck	3 psf
Roof Membrane	1 psf
1/2" Recovery Board	3 psf
Polyiso Insulation (say 8" average)	3 psf
Drop Ceiling	2 psf
MEP Allowance (typical)	5 psf
Additional roof loads (if applicable):	
Solar arrays	10 psf
Uniform roof terrace loads:	
	42 psf (3.25" on 2" deck = 5.25")
Uniform roof terrace loads: Concrete on Deck (light-weight concrete), typical 18 ga. Composite Metal Floor Deck	42 psf (3.25" on 2" deck = 5.25") 2.5 psf
Concrete on Deck (light-weight concrete), typical	
Concrete on Deck (light-weight concrete), typical 18 ga. Composite Metal Floor Deck	2.5 psf
Concrete on Deck (light-weight concrete), typical 18 ga. Composite Metal Floor Deck Concrete Ponding	2.5 psf 5 psf
Concrete on Deck (light-weight concrete), typical 18 ga. Composite Metal Floor Deck Concrete Ponding Roof Membrane	2.5 psf 5 psf 1 psf
Concrete on Deck (light-weight concrete), typical 18 ga. Composite Metal Floor Deck Concrete Ponding Roof Membrane ½" Recovery Board	2.5 psf 5 psf 1 psf 3 psf
Concrete on Deck (light-weight concrete), typical 18 ga. Composite Metal Floor Deck Concrete Ponding Roof Membrane ½" Recovery Board Polyiso Insulation (say 8" average)	2.5 psf 5 psf 1 psf 3 psf 3 psf

Live Load (LL)

Live loads are loads produced by the use and occupancy of the building or other structure that may or may not exist at any given time. Live loads do not include wind, snow, or seismic loads.

Uniform Floor Live Loads:	
Slab-on-grade*	250 psf
Classrooms/Offices (50 psf** + 15 psf partitions)	65 psf
and library reading rooms	
Corridors above 1st floor	80 psf
1st floor corridors, flexible spaces, open classrooms	100 psf
labs, media center, auditorium seating, and stairs,	
roof terrace.	
Auditorium stage, mechanical rooms***,	150 psf
and storage	

**Note that RI Building code lists 40 psf for classrooms, but use 50 psf for simplicity/flexibility between classroom and office/conference spaces.

***Or weight of actual equipment, whichever is greater. See building code for minimum concentrated load requirements.

Live load reductions shall be used whenever possible in accordance with the building code.

Snow Load (SL)

Snow load shall be as specified in the International Building Code (IBC) per the following criteria:

Ground snow load (Pg)	30 psf
Minimum Flat Roof Snow Load (Pf)	30 psf (RIBC Table 1608.1)
Terrain category	В
Exposure category	Partially Exposed
Exposure factor (Ce)	1.0
Thermal factor (Ct)	1.0
Importance factor (I)	1.1

Drifting and sliding snow shall be considered in design per the IBC.

Wind Load (WL)

Wind load shall be as specified in the International Building Code (IBC) per the following criteria:

Basic (ultimate) wind speed (v):	137 mph
Exposure category	В
Basic Velocity pressure (q)	.00256*Kd*Kz*Kzt*I*V2
Pressure coefficient (Cp)	Refer to code

Seismic Load (EQ)

Seismic load shall be as specified in the International Building Code (IBC) per the following criteria:

	Spectral response acceleration at .2 sec. (Ss) Spectral response acceleration at 1 sec. (S1) Importance factor (I) Site Class Site Coefficient	0.178 0.062 1.25 F (assumed)*
	Fa Fv Max considered spectral response acceleration	TBD* TBD*
Design	Sms Sm1 spectral response acceleration	TBD* TBD*
2 colgri	Sds Sd1 Seismic Design Category	TBD* TBD* D (assumed)*

*Based upon the preliminary geotechnical report prepared for the project, the soil conditions are poor and additional geotechnical investigations are required to identify a site class and site coefficients. The Seismic Design Category will be calculated once site class and site coefficients are known.

Structural systems shall be "Steel Special Concentrically Braced Frames" (R = 6.0).

Movable/Operable Partitions

Loading from movable/operable partitions shall be included in the structural design where applicable (see plans). Deflection criteria of

these component will be taken into account when designing supporting members.

Floor Vibrations

All floor designs shall be checked for vibrations due to human activity per AISC Design Guide 11.

Design Methodology and Load Combinations

Loads shall be combined per provisions of either 2018 IBC or ASCE 7-16 as applicable for allowable strength design (ASD) or load resistance factor design (LRFD). In general, ASD will be used for all systems except for reinforced concrete and reinforced masonry (slender wall systems). LRFD shall be used for reinforced concrete and reinforced masonry.

Foundations and First Floor Slab

The Geotechnical report provides two possible alternatives for foundation systems:

Alternative 1 – Ground Improvement:

In this approach the soil supporting the building would be improved by displacement piles with diameters between 14-24 inches consisting of compacted aggregate columns, compacted concrete, or a combination of both (e.g. compacted aggregate columns constructed over compacted concrete columns). Soil improvements will allow for a more conventional-style shallow foundation and slab system to be constructed, with the distinction that this foundation and slab would need to be more robust and more heavily reinforced than their conventional counterpart. Additionally, this system would likely experience significant total settlement (1-4"), and differential settlement up to 2". These anticipated settlement magnitudes are significantly higher than a "conventional" building on shallow foundations, which typically has total settlement of approximately 1" and differential settlement of approximately 3/4". These higher settlement magnitudes may cause serviceability issues in the completed structure (e.g. gypsum wallboard cracks, doors and windows that are difficult to operate, etc.).

It also should be noted that these ground improvements are nonconventional and may be complex to implement effectively. Because of the complex nature, caveats, and potential performance issues associated with this system, it may not be acceptable to the owner.

Alternative 2 - Deep Pile with Structural Base Slab:

A deep pile foundation system with a structural first floor slab would appear to bypass most of the issues and the foundation risk associated with the poor soils below. The deep piles would be friction piles developing their resistance in a suitable soil stratum. According to the geotechnical report, displacement piles would likely be specified for this project and are anticipated to have a 30-60ton capacity and a length of 100ft or more. Pile types available that may be considered are as follows:

- Prestressed precast concrete
- Closed end concrete filled steel pipe
- Stelcor drilled-in piles
- Ductile iron pipe piles
- Drilled displacement piles

With this system, a test program should be implemented due to the highly variable subsurface conditions. This test program would be prepared and executed by the project's geotechnical engineer.

If a deep pile foundation system is implemented, the foundation substructure would generally consist of reinforced concrete pile caps, grade beams, and a reinforced two-way ground level slab. Significant utilities or site appurtenances may also need to be supported by deep foundations.

General Foundation Criteria

For either system a continuous perimeter foundation wall or grade beam will be provided to protect the building from frost heave. Insulation shall be provided around the perimeter foundation wall as specified by the architect. Foundations and/or grade beams subject to frost shall extend to at least 4'-0" below lowest adjacent grade.

For both systems the internal spread footings or pile caps will need to be structurally interconnected with concrete struts.

From the presented information in the geotechnical report it appears that there is a performance advantage (relative to settlement and serviceability) in utilizing "Alternative 2 – Deep Pile with Structural Base Slab." However, further geotechnical investigation is required to finalize foundation types and alternatives and foundation type selection should be a decision made by the project team and owner, collectively.

Floor Structure

The floor framing will generally consist of steel beams, steel girders, and wide-flanged columns. Floor framing shall be composite with the floor slabs, unless non-composite is more economical in some locations (e.g. short spans, large openings each side of beam, etc.). Beam spacing will be 10'-0" on-center maximum, tighter beam spacings may be required where live loads exceed 100 psf. The deck will consist of a 5 1/4" (total thickness) of light-weight concrete on 18 gauge, 2" deep galvanized composite metal deck. The light-weight concrete shall be air-entrained 4%-7%. Structural elements will be fireproofed as needed to meet ratings required by code.

The concrete on metal deck shall be typically reinforced with welded wire fabric. Deformed bars will be provided where required to support heavy equipment, CMU partitions, etc.

Floor members shall be designed for minimum deflection requirements of L/360 (live load) and L/240 (total load), along with analysis for floor vibrations per AISC Design Guide 11. Tighter deflection requirements may be required at movable/operable partitions.

Roof Structure

The roof framing will generally consist of steel joists, wide-flanged girders, and wide-flanged steel columns. Wide-flanged steel beams shall be used in lieu of joists at column grid lines and where needed for loading (such as at mechanical equipment screens and other areas with concrete on the roof).

Joist/beam spacing will typically be approximately 6'-0" on-center with tighter spacing adjacent to roof steps, around equipment, etc. due to snow drifts (if applicable). The roof framing will be sloped to internal roof drains to minimize tapered insulation with a roof slope of at least 1/4" per foot. Tapered insulation may be required in some locations.

The roof deck will consist generally of 20 gauge 1-1/2" Type B galvanized metal deck. Thicker decking or 3" deep roof deck may be used where beam spacings larger than 6'-0" are used. Roof hatches (or similar) will be provided as required for the installation, access, and removal of equipment. Composite metal deck with lightweight concrete shall be provided below rooftop equipment where necessary for acoustics.

Roof members shall be designed for minimum deflection requirements of L/240 (live/snow load) and L/180 (total load). Tighter deflection requirements may be required at movable/operable partitions and will be coordinated with manufacturer's requirements.

At the third-floor roof terrace, the structural roof assembly will be similar to the floor assembly with a concrete topped composite metal deck supporting a stand-off walkable panel system above to maintain a level floor over a sloped roof deck.

For the roof terrace, members shall be designed for minimum deflection requirements of L/360 (live load) and L/240 (total load), along with analysis for floor vibrations per AISC Design Guide 11.

Lateral Force Resisting Systems

The lateral load resisting system will generally consist of special braced frames comprised of hollow structural steel sections. Due to the relatively high Seismic Design Category that is anticipated for the project, the bracing and connections will require special detailing in accordance with AISC 341. The concrete floor decks and metal roof decks will serve as horizontal diaphragms.

Exterior Wall Construction

Light-gauge metal framing (designed by others) or CMU will generally provide back-up to exterior walls systems, but utilization of the building columns (and installation of wall girts) may be required in some locations. These elements will be designed for component & cladding wind loads along with vertical loads. Wall girts, where needed, shall be HSS sections.

Wall members shall be designed for a minimum out-of-plane deflection requirement of L/240, unless more stringent criteria is provided by the wall system manufacturer.

MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION FIRE PROTECTION

The following is the Fire Protection system narrative, which defines the scope of work and capacities of the Fire Protection system as well as the Basis of Design.

A. Codes

All work installed under Section 210000 shall comply with the MA Building Code and all state, county, and federal codes, laws, statutes, and authorities having jurisdiction.

B. Design Intent

All work is new and consists of furnishing all materials, equipment, labor, transportation, facilities, and all operations and adjustments required for the complete and operating installation of the Fire Protection work and all items incidental thereto, including commissioning and testing.

C. General

In accordance with the provisions of the Massachusetts Building Code, a school building of greater than 12,000 s.f. must be protected with an automatic sprinkler system.

D. Description

1. The building will be served by a new 8-inch fire service, Double check valve assembly, wet alarm valve complete with electric bell, and fire department connection meeting local thread standards.

2. System will be an automatic sprinkler system with control valve assemblies to limit the sprinkler area controlled to less than 52,000 s.f. as required by NFPA 13-2013.

3. Control valve assemblies shall consist of a supervised shutoff valve, check valve, flow switch and test connection with drain.

4. All areas of the building, including all finished and unfinished spaces and combustible concealed spaces will be sprinklered.

5. All sprinkler heads will be quick response, pendent in hung ceiling areas and upright in unfinished and spaces without ceilings.

E. Basis of Design

1. The mechanical rooms, kitchen, science classrooms, and storage rooms are considered Ordinary Hazard Group 1; stage is considered Ordinary Hazard Group 2; all other areas are considered light hazard.

2. Required Design Densities:

Light Hazard Areas	0.10 GPM over 1,500 s.f.
Ordinary Hazard Group 1	0.15 GPM over 1,500 s.f.
Ordinary Hazard Group 2	0.20 GPM over 1,500 s.f.

3. Sprinkler spacing (max.):

Light Hazard Areas:	225 s.f.
Ordinary Hazard Areas:	130 s.f.

F. Piping

Sprinkler piping 2 in. and smaller shall be ASTM A-53, Schedule 40 black steel pipe. Sprinkler/standpipe piping 3 in. and larger shall be ASTM A-135, Schedule 10 black steel pipe.

G. Fittings

Fittings on fire service piping, 2 1/2 in. and larger, shall be Victaulic Fire Lock Ductile Iron Fittings conforming to ASTM A-536 with integral grooved shoulder and back stop lugs and grooved ends for use with Style 009-EZ or Style 005 couplings. Branch line fittings shall be welded or shall be Victaulic 920/920N Mechanical Tees. Schedule 10 pipe shall be roll grooved. Schedule 40 pipe, where used with mechanical couplings, shall be roll grooved and shall be threaded where used with screwed fittings. Fittings for threaded piping shall be malleable iron screwed sprinkler fittings.

H. Joints

Threaded pipe joints shall have an approved thread compound applied on male threads only. Teflon tape shall be used for threads on sprinkler heads. Joints on piping, 2 1/2 in. and larger, shall be made up with Victaulic, or equal, Fire Lock Style 005, rigid coupling of ductile iron and pressure responsive gasket system for wet sprinkler system as recommended by manufacturer.

I. Double Check Valve Assembly

1. Double check valve assembly shall be MA State approved, U.L./F.M. approved, with iron body bronze mounted construction complete with supervised OS & Y gate valves and test cocks. Furnish two spare sets of gaskets and repair kits.

2.Double check valve detector assembly shall be of one of the following:

- a. Watts Series
- b. Wilkins
- c. Conbraco Series

PLUMBING

The following is the Plumbing system narrative, which defines the scope of work and capacities of the Plumbing system as well as the Basis of Design.

A. Codes

All work installed under Section 220000 shall comply with the MA Building Code, MA Plumbing Code and all state, county, and federal codes, laws, statutes, and authorities having jurisdiction.

B. Design Intent

All work is new and consists of furnishing all materials, equipment, labor, transportation, facilities, and all operations and adjustments required for the complete and operating installation of the Plumbing work and all items incidental thereto, including commissioning and testing.

C. General

1. The Plumbing Systems that will serve the project are cold water, hot water, tepid water, sanitary waste and vent system, grease waste system and storm drain system.

2. The building will be serviced by Municipal water and Municipal sewer system.

3. All Plumbing in the building will conform to Accessibility codes and to water conserving sections of the Plumbing Code.

D. Drainage System

1. Soil, waste, and vent piping system is provided to connect to all fixtures and equipment. System runs from 10 feet outside building and terminates with stack vents through the roof.

2. A separate grease waste system starting with connection to an exterior grease interceptor running thru the Kitchen and Servery area fixtures and terminating with a vent terminal through the roof. Point of use grease interceptors are to be provided at grease laden kitchen fixtures per the plumbing code.

3. Storm drainage system is provided to drain all roofs with roof drains piped through the building to a point 10 feet outside the building.

4. Drainage system piping will be service weight cast iron piping; hub and spigot with gaskets for below grade; no hub with gaskets, bands and clamps for above grade 2 in. and larger. Waste and vent piping 1–1/2 in. and smaller will be type 'L' copper.

E. Water System

1. New 6-inch domestic water service from the municipal water system will be provided for the New Building. A meter and backflow preventer will be provided.

2. Cold water distribution main is provided. Non-freeze wall hydrants with integral back flow preventers are provided along the exterior of the building.

3. (2) Non-potable water systems will be provided for science classrooms, with a dedicated electric water heater, recirculation pump, & mixing valve.

4. A pump will re-circulate hot water from the piping system. Water temperature will be 120 deg. to serve general use fixtures. A 140 deg. F hot water will be supplied to the kitchen dishwashing equipment.

5. Water piping will be type 'L' copper with wrot copper sweat fittings, silver solder or press-fit system. All piping will be insulated with 1 in. thick high-density fiberglass.

F. Fixtures

1. Furnish and install all fixtures, including supports, connections, fittings, and any incidentals to make a complete installation.

2. Fixtures shall be the manufacturer's guaranteed label trademark indicating first quality. All acid resisting enameled ware shall bear the manufacturer's symbol signifying acid resisting material.

3. Vitreous china and acid resisting enameled fixtures, including stops, supplies and traps shall be of one manufacturer by Kohler, American Standard, or TOTO. Supports shall be Zurn, Smith or Watts. All fixtures shall be white. Faucets shall be American Standard, T&S or Chicago.

4. Fixtures shall be as scheduled on drawings.

Water Closet: High efficiency toilet, 1.1 gallon per flush, wall hung, vitreous china, siphon jet. Sensor operated 1.1 gallon per flush-flush valve.

Urinal: High efficiency 0.125 gallon per flush urinal, wall hung, vitreous china. Sensor operated 0.125 gallon per flush-flush valve.

Lavatory: Wall hung/countertop ADA lavatory with 0.35 GPM mixing faucet with sensor programmed for 10 second run-time cycle.

Shower: Tile shower by others. Shower head with 1.5 GPM flow rate, with Shower mixing valve, and Floor drain.

Sink: ADA stainless steel countertop sink 1.5 GPM faucet and aerator.

Drinking Fountain/ Bottle Filler: Hi-low wall mounted electric water cooler, stainless steel basin with bottle filling stations.

Janitor Sink: 30 x 30 Terrazzo mop receptor

G. Drains

Drains are cast iron, caulked outlets, nickaloy strainers, and in waterproofed areas and roofs shall have galvanized iron clamping rings with 6 lb. lead flashings to bond 9 in. in all directions. Drains shall be Smith, Zurn or Watts.

H. Valves

Locate all valves so as to isolate all parts of the system. Shutoff valves 3 in. and smaller shall be ball valves, solder end or screwed, Apollo, Watts or Milwaukee.

I. Insulation

All water piping shall be insulated with snap-on fiberglass insulation Type ASJ-SSL, equal to Johns Manville Micro-Lok HP.

J. Cleanouts

Cleanouts shall be full size up to 4 in. threaded bronze plugs located as indicated on the drawings and/or where required in soil and waste pipes.

Cleanouts for Special Waste System shall be Zurn #Z9A-C04 polypropylene cleanout plug with Zurn #ZANB-1463-VP nickel bronze scoriated floor access cover.

K. Access Doors

Furnish access doors for access to all concealed parts of the plumbing system that require accessibility. Coordinate types and locations with the Architect.

L. Water Heaters

1. Domestic water heating will be multiple electric storage type water heaters. System is to be equipped with thermostatically controlled mixing devices to control water temperature (120 F) to the fixtures, and 140 F to required Kitchen Equipment where required.

2. Dedicated water heating will be provided for Non-Potable water, (2) electric heat pump water heater per looped system. System is to be equipped with thermostatically controlled mixing devices to control water temperature (120 F) to the fixtures.

HVAC SYSTEM

A. Design Criteria

1. Interior environmental conditions will be based on Massachusetts Code 780 CMR 12 and ASHRAE Standard 55-2010.

2. Ventilation of spaces will be designed to meet or exceed the requirements of the latest edition of the Massachusetts State Building Code, the ICC International Mechanical Code and ASHRAE Standard 62, Ventilation for Acceptable Indoor Air Quality.

3. HVAC equipment will be selected to comply with the 2018 edition of the International Energy Conservation Code and ASHRAE 90.1-2013.

4. The HVAC systems will be designed to meet the acoustical requirements of ANSI S12.60-2002. The American National Standards Institute developed this standard specification and design guideline to help eliminate acoustical problems in the design stage of a project. Essentially, the steady background noise level in core learning areas should not exceed an NC of 35.

B. Heating and Cooling System

1. Heating and cooling will be provided by an all-electric heat pump system. This system will be a hybrid of air source heat pumps and ground source heat pumps.

2. The air source heat pump systems will be comprised of Variable Refrigerant Flow (VRF) systems and Packaged Air Source Heat Pump Energy Recovery Units (ERU).

3. The air source and ground source VRF systems shall be made up of indoor evaporators, branch control boxes (BC) and roof or grade mounted air-cooled condensers. The system utilizes refrigerant as the heat/cooling medium. The refrigerant shall flow from the condensers to the branch control boxes. The branch control boxes are used as control devices directing the liquid refrigerant or gas refrigerant to the indoor evaporators depending on the space heating or cooling needs. This type of VRF system is known as a heat-recovery system. The branch control boxes can take the heat recovered from the cooling zone and use it to warm up the room in heating mode. This way, the compressor cooling or heating requirements are reduced, which saves energy.

4. The air source and ground source heat pump ERUs shall be used to provide minimum outdoor air ventilation to all spaces utilizing a VRF system for heating and cooling. The ERU shall be comprised of supply fan, exhaust fan, desiccant wheel or fixed plate energy recover exchanger, and a DX heat pump w/hot gas reheat. The ERU will either preheat or precool/dehumidify the incoming ventilation air before being distributed to the spaces. The ventilation air will be distributed to the space via galvanized ductwork system. Exposed ductwork shall not be insulated. Ductwork enclosed in chases and above concealed ceilings shall be insulated with R-5 duct wrap.

C. Air Conditioning System

1. As part of the base design the following spaces will be provided with air conditioning:

- Student Commons.
- Administration area including Principal's Office, Assistant Principal's Office, School Psychologist's Office, Counselor's Office, Adjustment Counselor's Office, Pre-school Coordinator's Office, Nurse's Office and conference rooms.
- Teacher's planning/work rooms.
- Multipurpose rooms.
- Sped PT/OT spaces.
- Library/Media center.
- Gymnasium.
- Classrooms.
- Music/performing arts areas.
- Cafeteria and Kitchen
- Auditorium

D. Summary of HVAC Systems

1. Classrooms, Multipurpose Rooms, Music Rooms, and Teachers Workrooms.

a. VRF system with decoupled ventilation from packaged rooftop air source heat pump energy recovery units (ERUs). The energy recovery ventilation units will supply the classrooms with tempered air via a system of ductwork. Energy recovery rooftop units are an effective way of reducing the overall energy consumption of a building. Energy recovery rooftop units will be furnished with the following components:

- Double-wall insulated casings.
- Supply and exhaust fans.
- MERV 13 air filters for superior indoor air quality.
- Energy recovery wheel or fixed plate.

- DX heating/cooling coil.
- Hot gas reheat coil.
- Condensing unit.
- Pre-heat electric coil.
- Variable frequency drives.

b. Each classroom will be furnished with two (2) indoor evaporators. Small type spaces shall be furnished with one (1) indoor evaporator. The evaporators shall maintain space setpoint temperatures independently of the ERUs. This air circulates throughout the rooms and is drawn back up to the return grille of the evaporators. This air circulation produces even and consistent temperatures throughout the room.

c. A portion of the room air is exhausted to the outside as a relief for the primary air entering through the ERU units. This energy of the exhaust air leaving the classrooms is recovered at the energy recovery rooftop units.

d. The room thermostats control the operation of the evaporators to maintain space temperature setpoints.

e. The rooftop units will utilize the demand-controlled ventilation sequence of operation. This strategy permits the modulation of the outside air dampers and fan speed based on the level of CO2 in the space. CO2 sensors shall modulate the position of the terminal boxes located in the ventilation supply ductwork prior to discharge in the space.

2. Administration Area.

a. Air source VRF system with decoupled ventilation from packaged rooftop air source heat pump energy recovery units (ERUs). The energy recovery ventilation units will supply the spaces with tempered air via a system of ductwork. Energy recovery rooftop units will be furnished with the following components:

- Double-wall insulated casings.
- Supply and exhaust fans.
- MERV 13 air filters for superior indoor air quality.
- Energy recovery wheel or fixed plate.
- DX heating/cooling coil.
- Hot gas reheat coil.
- Condensing unit.
- Pre-heat electric coil.
- Variable frequency drives.

b. Each space will be furnished with an indoor evaporator(s). Smaller spaces shall be furnished with one (1) indoor evaporator. The evaporators shall maintain space setpoint temperatures independently of the ERUs.

This air circulates throughout the rooms and is drawn back up to the return grille of the evaporators. This air circulation produces even and consistent temperatures throughout the room.

c. A portion of the room air is exhausted to the outside as a relief for the primary air entering through the ERUs. This energy of the exhaust air leaving the classrooms is recovered at the energy recovery rooftop units.

d. The room thermostats control the operation of the evaporators to maintain space temperature setpoints.

e. The rooftop units will utilize the demand-controlled ventilation sequence of operation. This strategy permits the modulation of the outside air dampers and fan speed based on the level of CO2 in the space. CO2 sensors shall modulate the position of the terminal boxes located in the ventilation supply ductwork prior to discharge in the space.

3. Media Center and Cafeteria

a. Packaged rooftop air source heat pump units will supply these spaces with conditioned air. The conditioned air will be distributed via a system of ductwork and ceiling diffusers or sidewall high throw grilles. The roof top units will be furnished with the following components:

- Double-wall insulated casings.
- Supply and exhaust fans.
- MERV 13 air filters for superior indoor air quality.
- DX heating/cooling coil.
- Condensing unit.
- Hot gas reheat.
- Pre-heat electric coil.
- Variable frequency drives.

b. A portion of the room air is exhausted to the outside as a relief for the primary air entering through the indoor air handling units.

c. The rooftop units will utilize the demand-controlled ventilation sequence of operation. This strategy permits the modulation of the outside air dampers and fan speed based on the level of CO2 in the space.

d. Space temperature will be sensed with remote space mounted sensors and controlled through the building management system.

4. Gymnasium and Auditorium

a. Packaged rooftop air source heat pump units will supply these spaces with conditioned air. The conditioned air will be distributed via a system of ductwork and ceiling diffusers or sidewall high throw grilles. The roof top units will be furnished with the following components:

- Double-wall insulated casings.
- Supply and exhaust fans.
- MERV 13 air filters for superior indoor air quality.
- DX heating/cooling coil.
- Condensing unit.
- Hot gas reheat.
- Pre-heat electric coil.
- Variable frequency drives.

b. A portion of the room air is exhausted to the outside as a relief for the primary air entering through the indoor air handling units.

c. The rooftop units will utilize the demand-controlled ventilation sequence of operation. This strategy permits the modulation of the outside air dampers and fan speed based on the level of CO2 in the space.

d. Space temperature will be sensed with remote space mounted sensors and controlled through the building management system.

5. Kitchen

a. The kitchen areas will be handled by the cafeteria ERV, The ERV, thru controls, will provide tempered make-up air to the kitchen in order to offset the amount of air being exhausted through the kitchen hood.

b. The kitchen hood exhaust system shall be provided with a Mellink kitchen hood exhaust control system, which is designed to vary the speed of the kitchen hood exhaust fan in response to the intensity of the cooking operations taking place. Essentially, the fan will operate at higher speeds when higher heat and smoke producing cooking is taking place. The Mellink system will also modulate the outside air damper and fan speed of the make-up air unit.

E. Controls

Griffith & Vary, Inc. recommends this facility be furnished with a Building Management System. This system will feature full Digital Direct Controls (DDC). This system will be capable of controlling the following:

a. Space temperature set point.

b. Start and stop of all energy recovery rooftop units and air-handling units.

- c. Schedule occupied/unoccupied times for various spaces.
- d. Optimization of plant efficiency.

e. Monitoring of mechanical equipment and indication of any alarms, which may result from equipment failures.

To save energy required to heat or cool outdoor air, carbon dioxide sensors will be employed in the gymnasium, auditorium, and Student Commons to allow a reduction of outdoor air during periods of low occupancy and motion sensors will also be utilized to allow closure of outdoor air dampers when assembly areas are unoccupied. Classrooms will also have occupancy sensors to modulate dampers in the supply air duct branches as a means of saving energy during periods when the classrooms are unoccupied.

ELECTRICAL SYSTEMS

A. Electric Service:

1. The building will be provided with an electric service via a pad mounted transformer located on the site as provided by the electric utility company. Primary service conduits in concrete duct bank will be provided from the electric utility pole to the transformer via electric utility company standard manholes. Secondary service feeders and conduits in concrete duct bank will be provided from the transformer to the switchboard. The electric utility company meter will be mounted on the transformer.

2. The building fire pump electric service will be provided via the pad mounted transformer located on site as provided by the electric utility company. Secondary service feeders and conduits in concrete duct bank will be provided from the transformer to the fire pump.

B. Telephone Service:

Telephone service (2) 4" conduits will be provided from a utility pole to the building demarcation point (MDF Room).

C. Cable TV Service:

Cable TV service (2) 4" conduits will be provided from a utility pole to the building demarcation point (MDF Room).

D. Power Distribution:

Preliminary load calculations indicate that the switchboard will be rated at 3500 amperes at 277/480 volt, three phase, four wire. The switchboard will be provided with a surge protection device. Switchboard distribution sections will feed 277/480 volt panelboards and major Mechanical and Plumbing equipment. Dry-type transformers will be provided to distribute 120/208 volt power for branch circuit panelboards and the Kitchen panelboards. One of the kitchen panelboards will be provided with a shunt trip circuit breaker which will trip if fire suppression under hoods is initiated, shutting down all circuits under hoods. Panelboards with surge protection devices for computers will be provided, fed from computer grade K-rated transformers. Zero sequence harmonic filters connected to the computer panelboards will be provided to reduce neutral currents. Shops with equipment will be provided with panelboards including shunt trip main circuit breakers and mushroom type shut off switches which can be pushed to shut down power to the panelboards in event of an emergency. Other shops will be provided with dedicated panelboards.

E. Emergency Power System:

1. A diesel fuel generator with a sound attenuated, weatherproof enclosure will be provided. Preliminary load calculations indicate that the generator will be rated at 700kW at 277/480 volt, three phase, four wire. Two automatic transfer switches (ATS's) will be provided to separate emergency from optional standby loads. The emergency ATS and associated emergency panelboards will be located in two hour rated closets with two hour rated feeders. The optional standby ATS and associated panelboards will be located in normal electric rooms. Emergency panelboards will be provided with surge protection devices as required by the National Electrical Code. The generator will supply loads as selected by the Owner, as follows:

a. Lighting:

- Exterior building mounted lighting
- Mechanical Room lighting
- Electrical rooms lighting
- Egress Corridors and Stairs lighting
- IDF and MDF lighting
- Administration lighting
- Principal Office lighting
- Nurse lighting
- Health Instructor's Office lighting
- Elevator Machine Room
- Gymnasium lighting
- Custodians Office lighting
- Custodians Receiving and General Supply lighting
- Interior windowless spaces lighting
- Elevator lighting and pit lighting
- Kitchen lighting
- Dining lighting
- Toilet rooms lighting
- Make Air Unit lighting

b. Power:

- Fire Alarm System
- Heating System including Roof Top Heat Pump Units for the Gymnasium, Dining, Kitchen, and associated receptacles and controls, and Electric Unit Heaters
- Entire Kitchen
- Bidirectional amplifier
- Toilet Room Flush Valves and Sink Sensors

- Custodians Office, a receptacle at work station
- Custodians Receiving and General Supply, a receptacle at work station
- Health Instructor's Office, a receptacle at work station
- P.O.S. at Dining
- Gymnasium receptacles
- Dining, two receptacles
- Administration, a receptacle at work station
- Principal Office, a receptacle at work station
- Nurse, a receptacle at work station
- One Elevator power, Machine Room receptacle, pit receptacles, and dampers
- Water Heaters and Circ pumps
- · Generator block heater and battery charger
- Technology equipment including:
 - IDF's each with two technology racks, two 120 volt, 20 amp, single phase receptacles per rack, includes telephone system.
 - MDF with technology racks, two 120 volt, 20 amp, single phase receptacles per rack, includes telephone system.
 - VRF unit for MDF and IDF's with condensate pump receptacle
 - Security System including plywood backboard security circuits, electrified door power supplies, and CCTV cameras (powered by switches in MDF and IDF's)
 - Plywood backboard clock circuits
- Security Office receptacles
- Fire Pump

F. Fire Alarm System:

An addressable manual and automatic fire alarm system will be provided. The fire alarm system will call the Fire Department or a Central Station via master box and/or telephone dialer. The fire alarm control panel will be located in the Main Electric Room or an area as so directed by the Fire Department. A remote annunciator panel will be provided in the Vestibule at the Main Lobby and where required by the Fire Department. A map of the entire building will be framed and mounted adjacent to the annunciator. Keyed boxes will be provided outside the Fire Department entries. Manual pull stations will be located within five feet (5') of each egress door and at the entrance to each Stair. Additional pull stations will be provided as required by Code. Heat detectors will be provided at the top of the elevator shaft and any other areas not provided with protection by the fire suppression system. Smoke detectors will be provided in the Corridors, in Stairs at each floor level, in the Elevator Machine Room, and at all elevator landings for early detection of smoke for recall. All devices including tamper, flow, pressure switches, and PIV, associated with the fire suppression system will be connected to the fire alarm system. Audio/visual appliances will be provided in the Corridors, Classrooms and all large areas such as the Gymnasium, Media Center, Auditorium, and Dining. Visual devices will be provided in Toilet and Conference rooms. Mechanical equipment shall be shut down by the

fire alarm system as required by code.

G. Lighting:

1. Interior:

a. In general, highly efficient LED lighting fixtures will be provided throughout the building. Lighting levels will be in accordance with I.E.S. (Illuminating Engineering Society of North America) recommendations and the Massachusetts State Building Code energy requirements.

2. Exterior:

a. Wall and pole mounted site lighting fixtures will be LED type.

H. Switching:

Lighting fixtures will be controlled primarily by room occupancy sensors and local low voltage dimmers. Lighting fixtures within primary side lighted areas will be daylight harvested via dimming drivers and photosensors. Lighting control relay panels will be provided to control exterior lighting and control interior lighting where time of day control is required.

I. Devices:

General convenience receptacles will be located throughout the building as required. Receptacles provided in Toilet rooms, near sinks, the Kitchen, and outdoors will be provided with ground fault protection. Circuiting will be provided to Kitchen, Mechanical, and Plumbing equipment, and miscellaneous loads as required.

J. Bi-directional Amplifier System

A bi-directional amplifier with coaxial cabling above accessible ceilings will be provided to amplify Fire Department and Police frequencies to ensure that there are no "dead" spots in the building for communication within building.

K. Technology Systems Back Box and Conduit System

A telephone/data/video/security/clock/speaker conduit system consisting of empty back boxes and conduit with pull strings to above accessible ceilings will be provided for technology. Cable tray will be provided in MDF and IDF rooms for low voltage wiring.

L. PV System Conduit System

An empty conduit system with pull strings will be provided for the PV system consisting of photovoltaic panels and an inverter. Conduits will be provided from the switchboard to an exterior mounted disconnect switch for shutting down the PV system if need be. Conduits will also be provided from the exterior disconnect switch to the inverter and from the inverter to the roof.

M. Electric Vehicle Charging Stations

Electric vehicle charging stations will be provided.

N. Destratification Fans

Destratification fans will be provided in the Gymnasium.

O. Mass Notification System

A mass notification system will be provided including control panel, info alarm graphic annunciation and control, addressable speakers, and amber lenses.

P. Lightning Protection

The building will be provided with a lightning protection system made up of air terminals on the roof with downlead conductors to ground.

INFORMATION TECHNOLOGY & SECURITY SYSTEMS

271000 Structured Cabling

The new network design will support up to 10GHZ over Category 6A to the desktop.

Twenty-four pair multi-mode OM4 fiber and twelve pair single mode OS2 fiber will be provided from the MDF to every IDF in the building. A 25 pair cat5e riser cable shall be provided from the MDF to every IDF in the building.

Cat 6A cabling will be provided for data, voice, CCTV, and wireless access points (four data drops at each wireless access point location). Wireless access point outlet placements are intended to provide the capability for complete wireless coverage throughout the school.

Each classroom will be wired with 2 data ports and a wall phone jack at the teacher location (category 6A cabling will be provided for the owner provided phone system (support for Voice over IP)). Classrooms will also have 2 data ports located at the back of the room.

The technology labs will be capable of accommodating an entire class of students (28). Network access in the technology labs will be wireless. Four ceiling data jacks for wireless access points shall be provided. In addition, the equipment specified below in 274000 for a typical classroom shall be included in each lab.

The MDF and IDFs shall have a shared ground and ground bus installed, bonding the rooms and all cable tray and racks.

272100 Network Switches

Network electronics (switches) and patch cords shall be provided by the Owner

272133 Wireless Access Points

Wireless access points, and a controller if applicable, will be provided by the Owner. The subcontractor in section 271000 shall install the wireless access points and shall furnish and install green cat6A patch cords from the WAP outlet above the ceiling to the WAP device.

273000

The phone system, programming and handsets shall be provided and installed by the Owner. The building shall be cabled to support a voice over IP phone system using Cat 6A.

274000

The PC/laptop in each classroom shall be provided by the Owner. A new voice lift system and ceiling speaker shall be furnished and installed in each classroom. The base unit shall be installed on the wall behind the footprint of each interactive display. A 75" Promethean Interactive Display shall be furnished and installed on the teaching wall of each classroom. The displays and voice lift shall be proprietary.

The gymnasium, student dining, fitness center and auditorium shall have a sound system. The auditorium shall have a large format projector and screen. All of the sound systems shall be furnished and installed by the Theater Section.

10 presentation cameras, Okiocam T Plus by Okiolabs shall be furnished and turned over to the owner.

275000

A new Atlas IED PA system with digital message clocks and call button shall be installed. Plastic call button covers shall be placed over every call button. Integration of the IED PA system to the owners VoIP phone system shall be furnished and installed. Any authorized phone shall be capable of paging the building or zones of the building. Clocks shall in in all offices, conference rooms, and classrooms and group spaces. Exterior PA speakers shall be included. The system shall be proprietary.

277000

Digital signage displays shall be provided and installed in the student dining area, at the main entry, and in 2 halls per floor. An IPTV system shall not be provided. Digital signage displays shall be furnished and installed by the 274000 subcontractor. Devices and software for the displays shall be furnished, programmed and installed by the owner.

280000

Identicard access control shall be furnished and installed in the school. All door contacts shall be double pole double throw contacts. The intrusion system and access control system shall each be wired to one set of contacts. With all door contacts being monitored by the access control system, a higher level of situational awareness is provided to the staff regarding entrances and exits of the building while the building is occupied. Traditionally, the intrusion detection system only monitored and reported door alarms during unoccupied times when the system is armed. Leveraging the access control system to also monitors the door contacts allows the staff to receive door alarms during occupied times when the intrusion detection system is typically disarmed. The access control system shall be proprietary. The main entry shall have a video entry system.

An intrusion detection system and related components shall be provided. Every first floor room with a window shall have a motion sensor. Motion sensors shall also be placed within the hallways and in vestibules and at strategic locations.

An indoor/outdoor CCTV system (IP based) will be provided. Coverage shall include entrances, hallways, stairwells, building perimeter, and parking (parking surveillance shall utilize both building mounted cameras as well as pole mounted cameras). Other areas, such as the gym, auditorium, café, and admin area shall be included.

260000

A Mass Notification System (MNS) shall be provided, to include alert and fire strobes in all spaces. Large group spaces shall also have a digital scrolling message board with MNS alert notifications.

THEATER EQUIPMENT

Stage Dimming and Lighting System

The Stage Dimming and Lighting system shall be comprised of a 48 dimmer rack and 24 – 120 volt relay cabinet. There shall be a low voltage CAT5e control network for both the house lights and the stage lighting with distributed network outlets allowing for DMX control at all stage lighting pipe locations and at stage level, left and right. Lighting control shall be by means of Element 40–500 control console with two monitors, an access point shall be included for Ipad control of cues. The Stage lighting fixture package will be all LED front lighting, LED par down lights and LED cyclorama lights. Stage lighting will be on Motorized hoists that raise and lower to allow for easy fixture movement for theatrical or dance productions. The Front light pipe shall lower on a motorized hoists with integrated circuits and DMX control.

Stage Video Wall

Taking technology to the next level, this facility will incorporate a 20' by 40' – 3.91 mm video wall at the rear of the stage. This will replace the need for a cyclorama curtain and cyc lighting fixtures, it also eliminate the need for a video projector and screen. Control can be processed thru the Crestron system, or local switcher. Camera inputs allow for Image magnification, movies, and computer inputs will allow for presentations to be on the video wall.

Stage Audio Visual and Sound

AV control shall be by a Crestron control system with the main control location at the center booth area. This area will be central hub and shall house the Audio control console, the Lighting control console, Crestron touch screen controller and house light touchscreen control station. A DVD player shall be included as a standard input to the video wall. Speakers shall be hung at a center cluster for voice support and left and right for stereo effects. These shall be amplified and run thru a drive rack to process the sound for the room. A 40 channel digital mixing console and wireless microphone package of 8 units shall be included along with a wireless assisted listening system. Additionally the audio system shall have a back stage communication system connecting the band, chorus, control booth and back stage areas on a clear-com communication system.

Stage Rigging and Curtains

The stage shall have a set of curtains and tracks consisting of; a Main valence and Main bi-parting curtain in custom color IFR velour. Three layers of legs and border masking with a mid-stage traveler all in black velour or IFR fabric and rear black bi-parting velour. All stage curtains shall be on Dead hung line sets. In addition there will be two scenic battens on motorized hoists with a one-way walk-along track for pulling scenic drops on and off stage. There shall be a minimum of four stage lighting pipes on stage, two front side light torm ladders, one on each side of the stage apron and one front of house hoist that raises and lowers complete with dimmer circuits and DMX control for stage lighting fixtures.

Band Room

The band room shall have a self-contained audio system with 12 channels of mixing capability, an assortment of microphones for band instruments, 2 – Direct boxes, a portable digital audio recorder, wall mounted speakers, monitors and amplifiers.

Chorus Room

The Chorus room shall have a self-contained audio system with 12 channels of mixing capability, a pair of Wireless microphones with hand held mics, and 4 additional vocal microphones, 2 – Direct boxes, a portable digital audio recorder, wall mounted speakers, monitors and amplifiers.

FOOD SERVICE EQUIPMENT

Crabtree McGrath Associates is a consulting firm specializing in food service facilities planning and design. We have worked with Ai3 Architects to study a framework for the design of the kitchen and serving space associated with a new school building. Additionally, Crabtree met with the schools current Food service Director to identify future goals and to seek guidance for the equipment needed in the new facility.

The school's food service operation will be organized into two parts. One part is the "back of house" consisting of food storage, preparation area, and cooking. The other part is what we call the "front of house" or serving area. The serving area is where students approach and are served meals.

Kitchen and Food Preparation Area

The back of house shall include all the necessary components of a fully functional kitchen to include a receiving area to be used as a staging point for the breakdown and distribution of delivered goods. Refrigerated rooms for the bulk storage of refrigerated and frozen products, sized to accommodate the needs of the facility, shall be provided. Dry goods storage shall be made available for the keeping of canned, boxed, and other non-refrigerated food items. Food grade storage shelving and dunnage platforms shall be provided for dry goods storage and for storage of disposable items such as paper goods.

Food preparation shall take place on stainless steel tables of various sizes and configurations. Tables may be fashioned with sinks, drawers, shelves, and overhead pot storage hooks. Motorized food preparation equipment such as a food slicer, food cutter, and mixer shall be provided. Sizing of this equipment will be based on the scope of food preparation.

Cooking shall take place in a central location adjacent to both food storage and preparation. Equipment shall consist of standard pieces such as convection ovens, boiling kettles, braising pans, steamers, and open burner range tops. Adjustments shall be made to cooking equipment to suite the specific menu.

The facility will include the necessary ware washing equipment to process ware, pots, trays, pans and plastic trays returned from the cafeteria.

Other support facilities located in or adjacent to the kitchen will include a staff toilet, a dedicated kitchen janitor's mop sink with enough space for the storage of mops, buckets and detergents. A clothes washer and dryer will be provided for the washing of mop heads, aprons, and kitchen hand towels. Typically grouped with this equipment are employee locker accommodations for the storage of personal items like coats, handbags, or shoes and an office for the kitchen manager.

Itemized breakdown of equipment:

Refrigerated Storage - The kitchen will require the following storage.

- a. Walk-in cooler for refrigerated storage.
- b. A walk-in freezer for frozen storage.

- c. A walk-in freezer for district wide commodity storage.
- d. Dry goods storage area for paper and food storage.

Serving Area

Serving will take place at multiple counters organized into a linear configuration allowing for orderly and secure serving of food products. Counters are grouped into cold and hot food serving lines that will serve the typical school lunch. These lines shall include the necessary equipment needed to provide the cold offerings such as fruit, salads, and beverages.

In addition, a grab and go station, deli sandwich line, grill station, and cold food bar will be utilized to enhance the meal offering and increase participation.

Each of the lines will funnel into a common area large enough to accommodate the flow of traffic where the transaction is to take place to account for meal type and quantity. Counters with tray slides will be provided to accept "Point of Sale" terminals where students can pay with cash or type in a code that is linked to a declining balance prepaid system.

Within the seating area will be two condiments stands able to display napkins, forks, straws, and other utensils and condiments needed for the lunch period. These units will be mobile and able to be placed where needed. The base cabinet will be equipped with lockable storage.

OSOM A TETRA TECH COMPANY

CODE & FIRE ENGINEERING GROUP

101 Federal Street, 6th Floor Boston, MA 02110 T: 617.748.7800 F: 617.748.7801 www.cosentini.com Drawing Reviews Building and Fire Code Consulting Life Safety, Egress, and Accessibility Negotiation and Equivalencies Fire/Smoke Modeling Special Inspections and Commissioning Hazardous Materials and Process Analysis Smoke Control System Design Due Diligence and 3rd Party Reviews

September 13, 2022

James Jordan Ai3 Architects, LLC 526 Boston Post Road Wayland, MA 01778

Re: Central Falls High School – SD Code Compliance Central Falls, RI

Dear Mr. Jordan:

Cosentini Associates has reviewed the drawings for the proposed Central Calls High School project for compliance with the major fire protection and life safety criteria of the applicable codes and discussed with Ai3 Architects regarding the proposed designs. The proposed project involves the construction of a new high-school building, consisting of four stories above grade and a footprint of approximately 40,400 square feet. In our opinion, the project is in compliance with the major fire protection and life safety criteria of the Rhode Island Building Code.

Sincerely, COSENTINI ASSOCIATES, INC. Code Consulting and Fire Engineering Services

orling of Edwar

Rockwood J. Edwards, PE | Vice President Code and Fire Engineering Group Phone: 617-748-7800 | Fax: 617-748-7801 | Direct Dial: 617-748-0021 redwards@cosentini.com

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CENTRAL FALLS HIGH SCHOOL

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COST ESTIMATOR PROJECT MANAGEMENT & COST 20 Downer Ave., Suite 1C Hingham, MA 02043 Tel: (781) 740-8007 Fax: (781) 740-1012

STRUCTURAL ENGINEER PARE CORPORATION

10 Lincoln Rd, Suite 210 Foxboro, MA 02035 Tel: (508) 543-1755 Fax: (508) 543-1881

375 Main Street Boxford, MA 01921 Tel: (781) 598-6789 Fax: (781) 850-4468

CODE CONSULTANT COSENTINI ASSOCIATES, INC 101 Federal Street, 6th Floor Boston, MA 02110 Tel: (617) 748-7800 Fax: (617) 748-7801



CIVIL

EXISTING CON UTILITY PLAN DRAINAGE PLI DETAILS

LANDSCAPE OVERALL HA HARDSCAPE I HARDSCAPE PL OVERALL LANDS LANDSCAPE PLAN LANDSCAPE L1.21 L1.22 L1.23 LP1.21 LP1.22 LP1.23

C1.0 C2.0 C3.0 C4.0



SCHEMATIC DESIGN

ARCHITECTURAL

FIRST FLOOR PLAN - ZONE A FIRST FLOOR PLAN - ZONE B SECOND FLOOR PLAN - ZONE SECOND FLOOR PLAN - ZONE

ABBREVI

A0.12 A0.13 A0.14 A0.21 A0.22 A1.11 A1.12

A1.13 A1.14 A2.11 A2.12 A2.13 A2.14 A2.215 A2.216 A2.218 A2.228

A2.24A	FOURTH FLOOR PLAN - ZONE A		
A2.24B	FOURTH FLOOR PLAN - ZONE B		
A3.01	EXTERIOR ELEVATIONS	PLUMBING	
A3.02	EXTERIOR ELEVATIONS		
A3.03	EXTERIOR ELEVATIONS	P1.0	PLUMBING RISER
A3.04	EXTERIOR ELEVATIONS		
A3.05	EXTERIOR ELEVATIONS		
A4.01	BUILDING SECTIONS	MECHANICAL	
A4.02	BUILDING SECTIONS		
A4.03	BUILDING SECTIONS	M1.0	MECHANICAL CON
A4.04	BUILDING SECTIONS	M2.0	MECHANICAL CON
A4.11	WALL SECTIONS		
A4.12	WALL SECTIONS		
A7.01	ROOM FINISH SCHEDULE		CTRICAL

A2.23A THIRD FLOOR PLAN - ZONE A

1.0 MECHANICAL CONTROL SEQUENCE M2.0 MECHANICAL CONTROL SEQUENCE ELECTRICAL E1.0 ELECTRICAL RISER DIAGRAN E2 ELECTRICAL SCHEDULE

FIRE PROTECTION

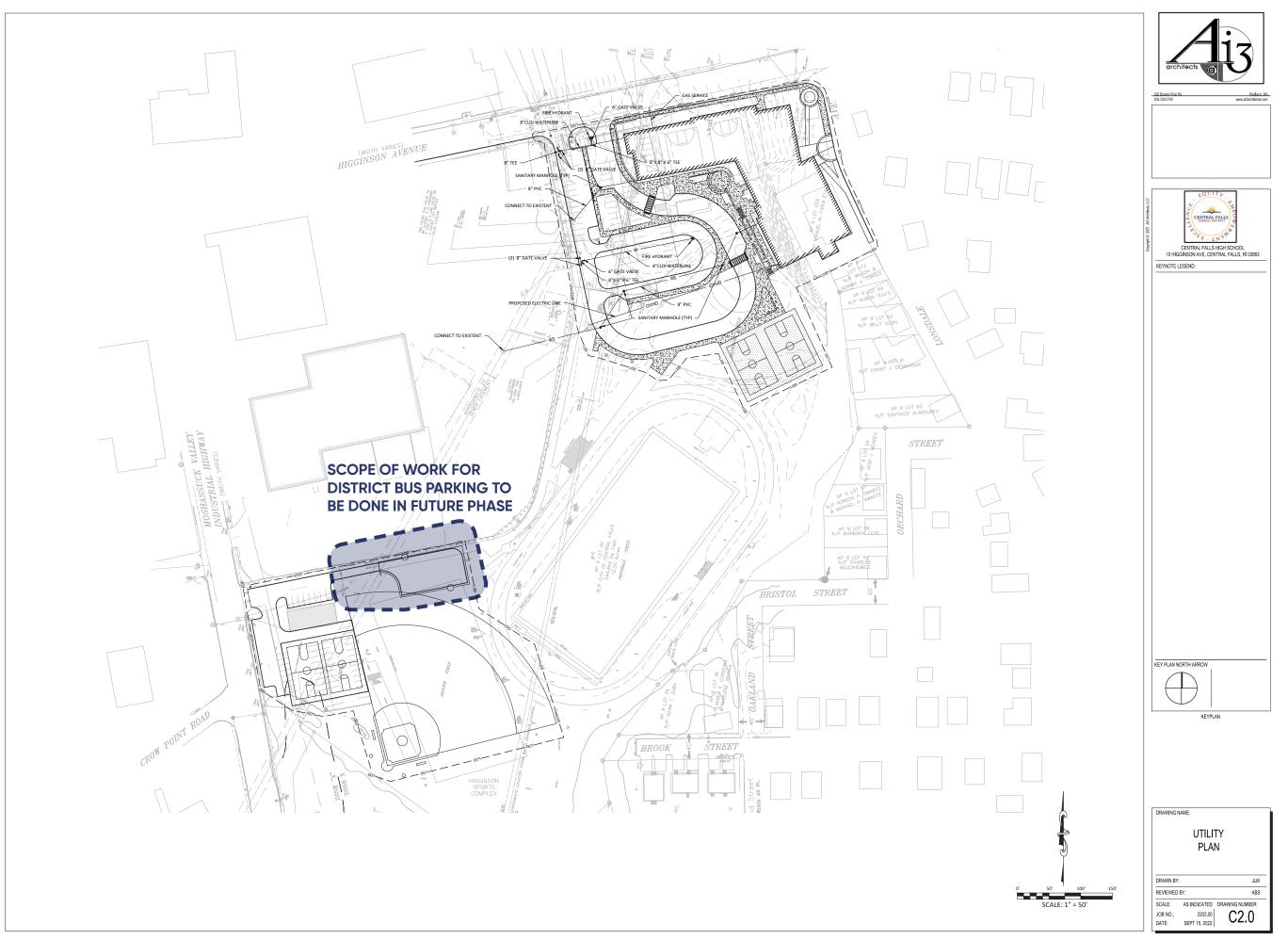
FIRE PROTECTION R

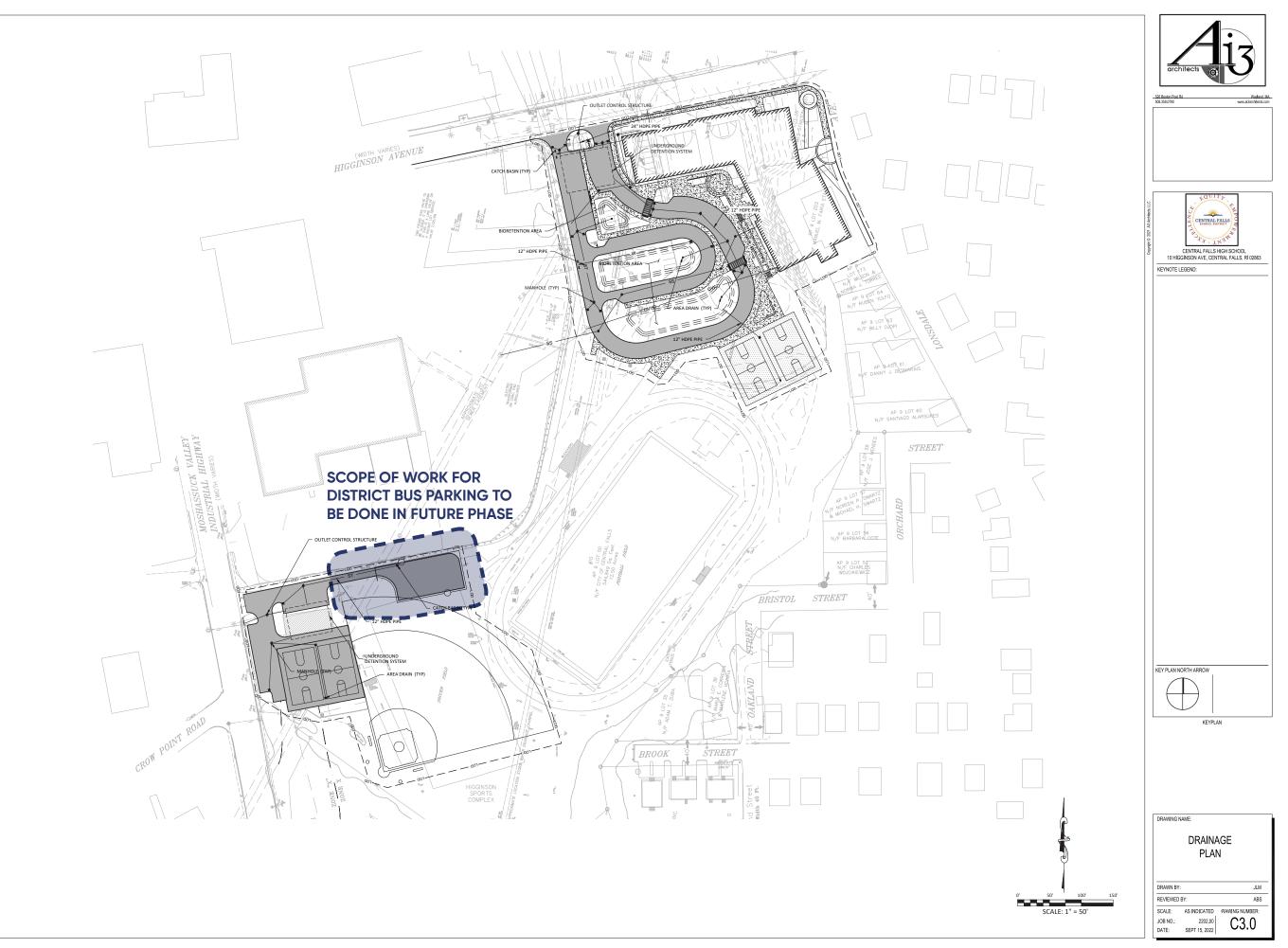
SEPT 15, 2022

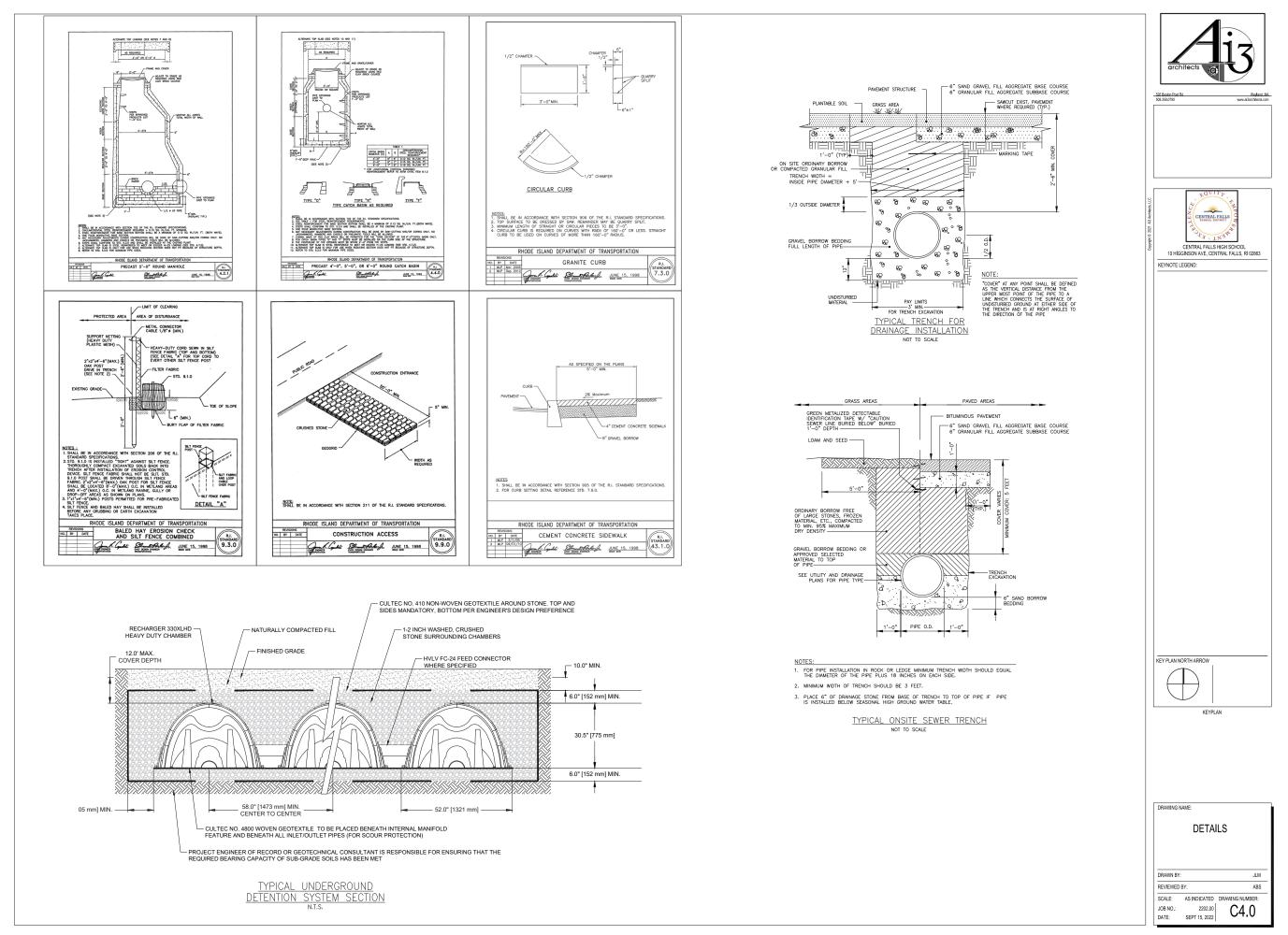


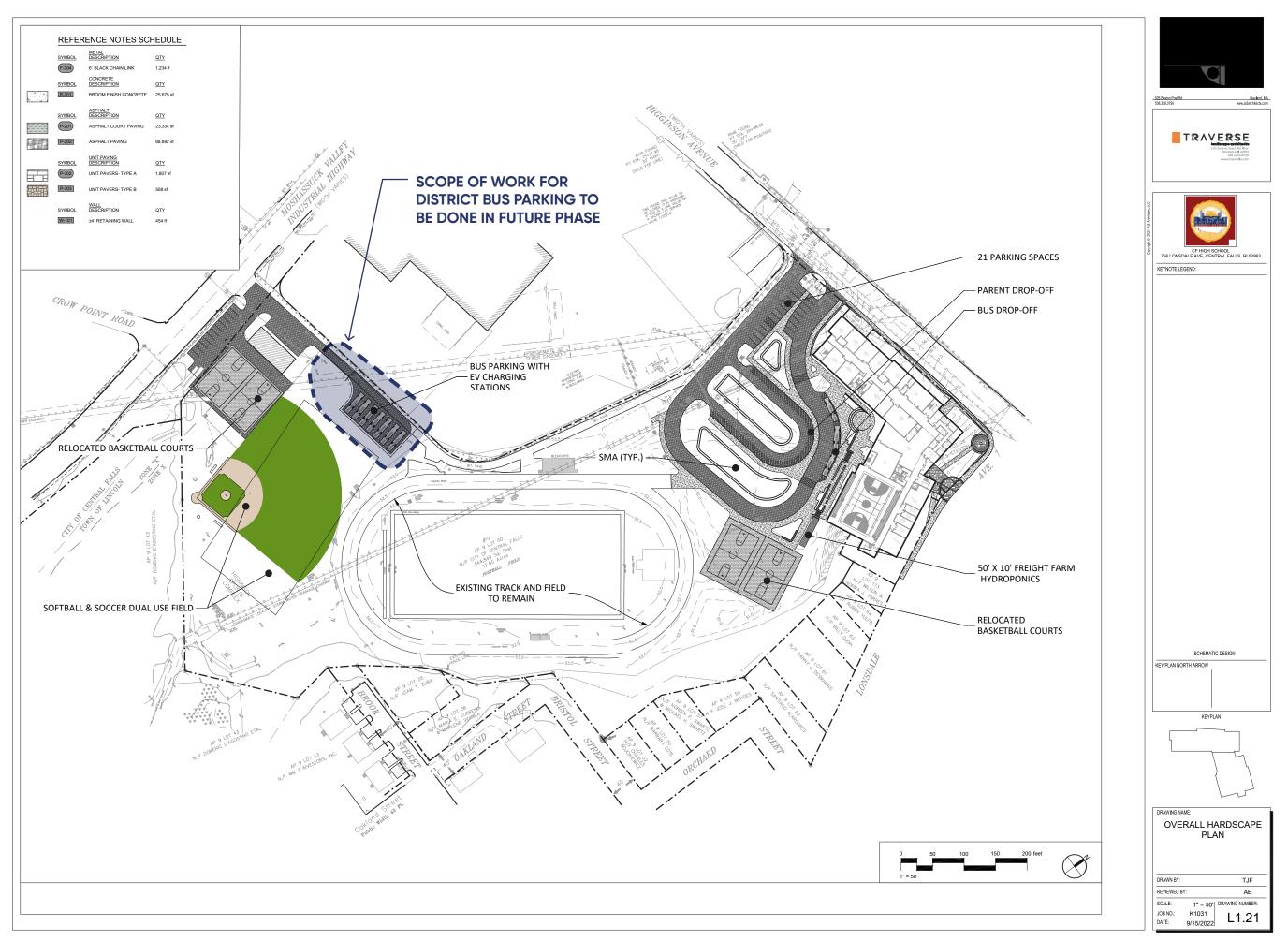
AI3 PROJECT NO.2202.00 - CENTRAL FALLS HIGH SCHOOL

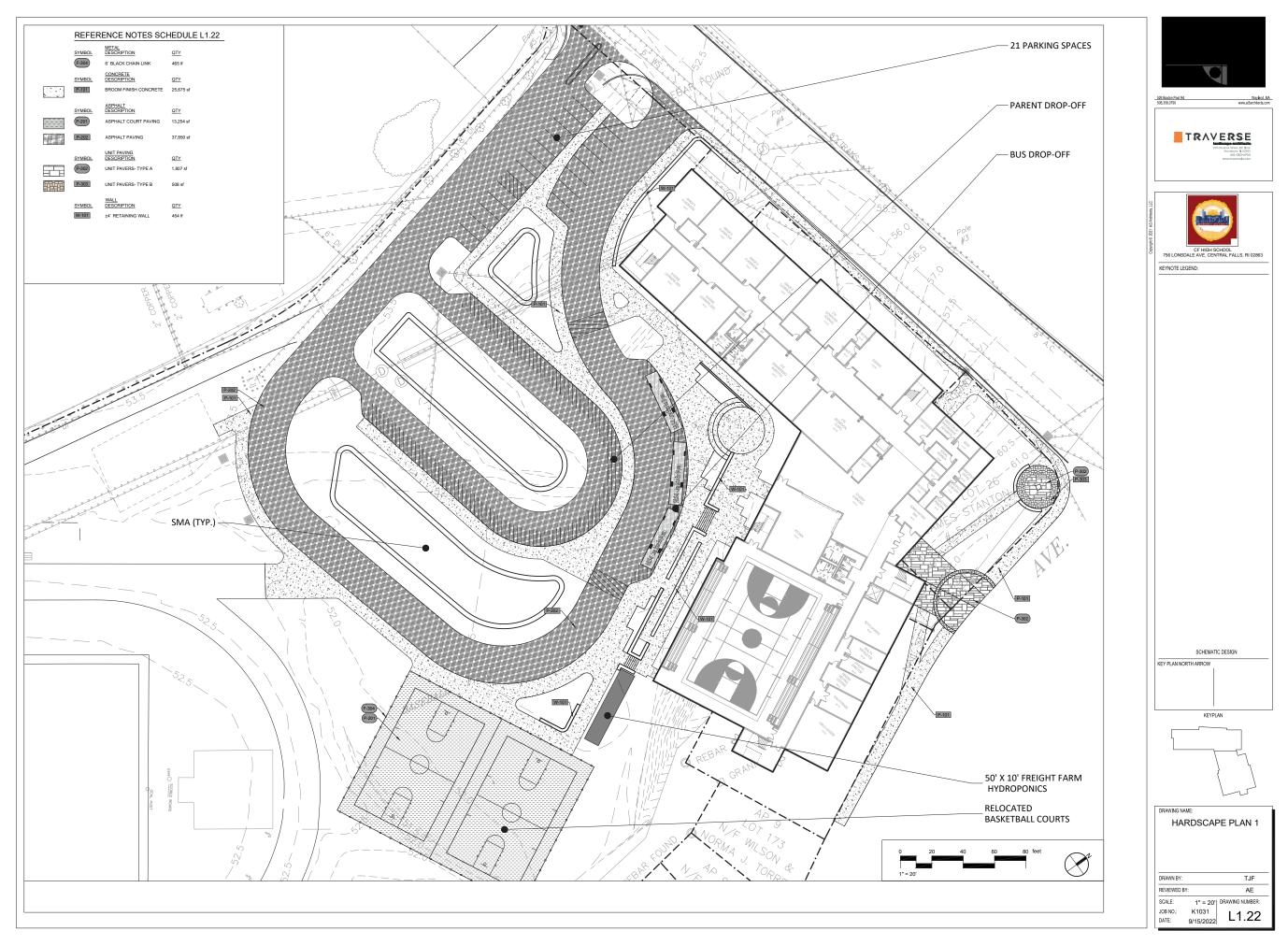


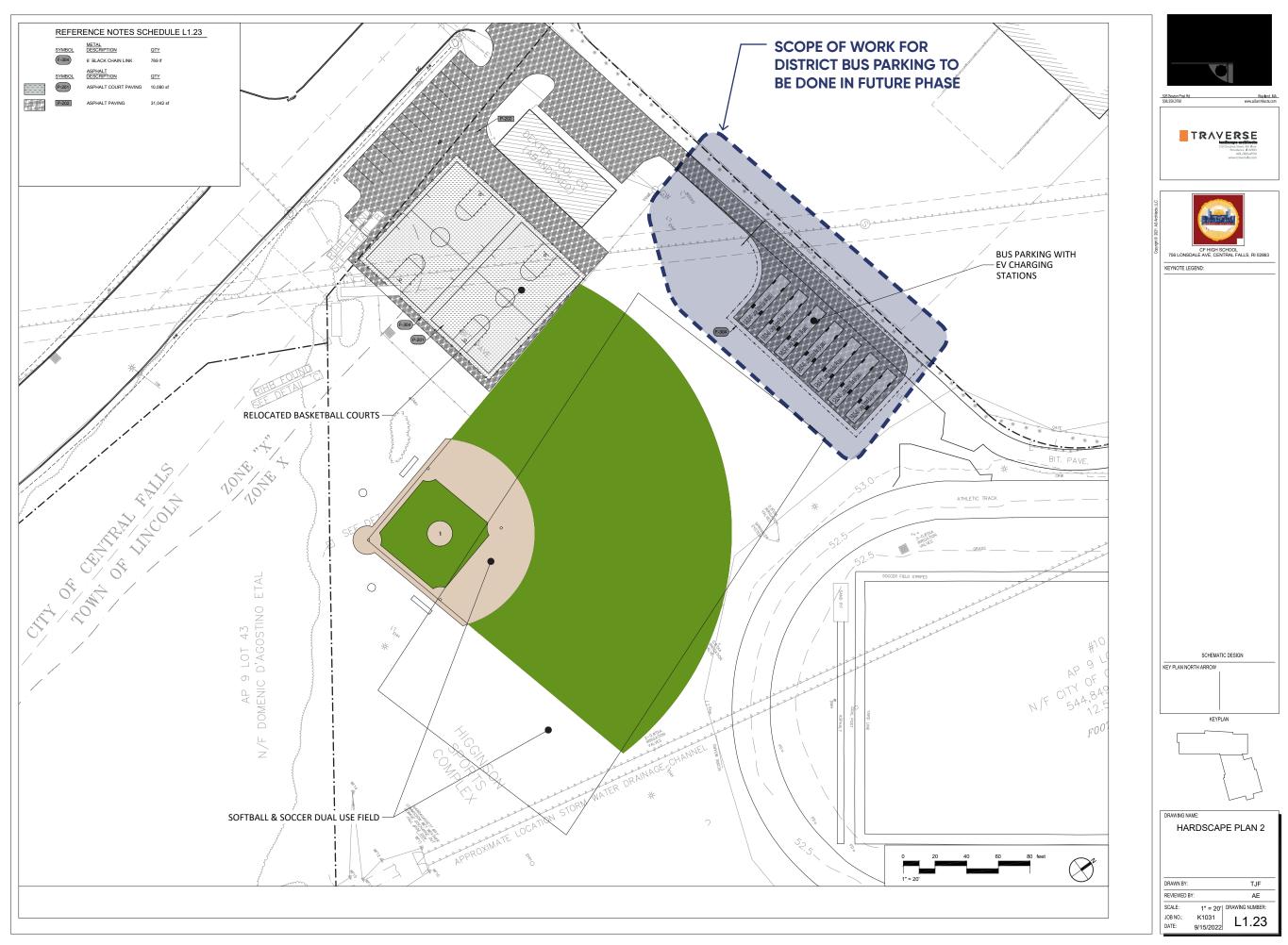


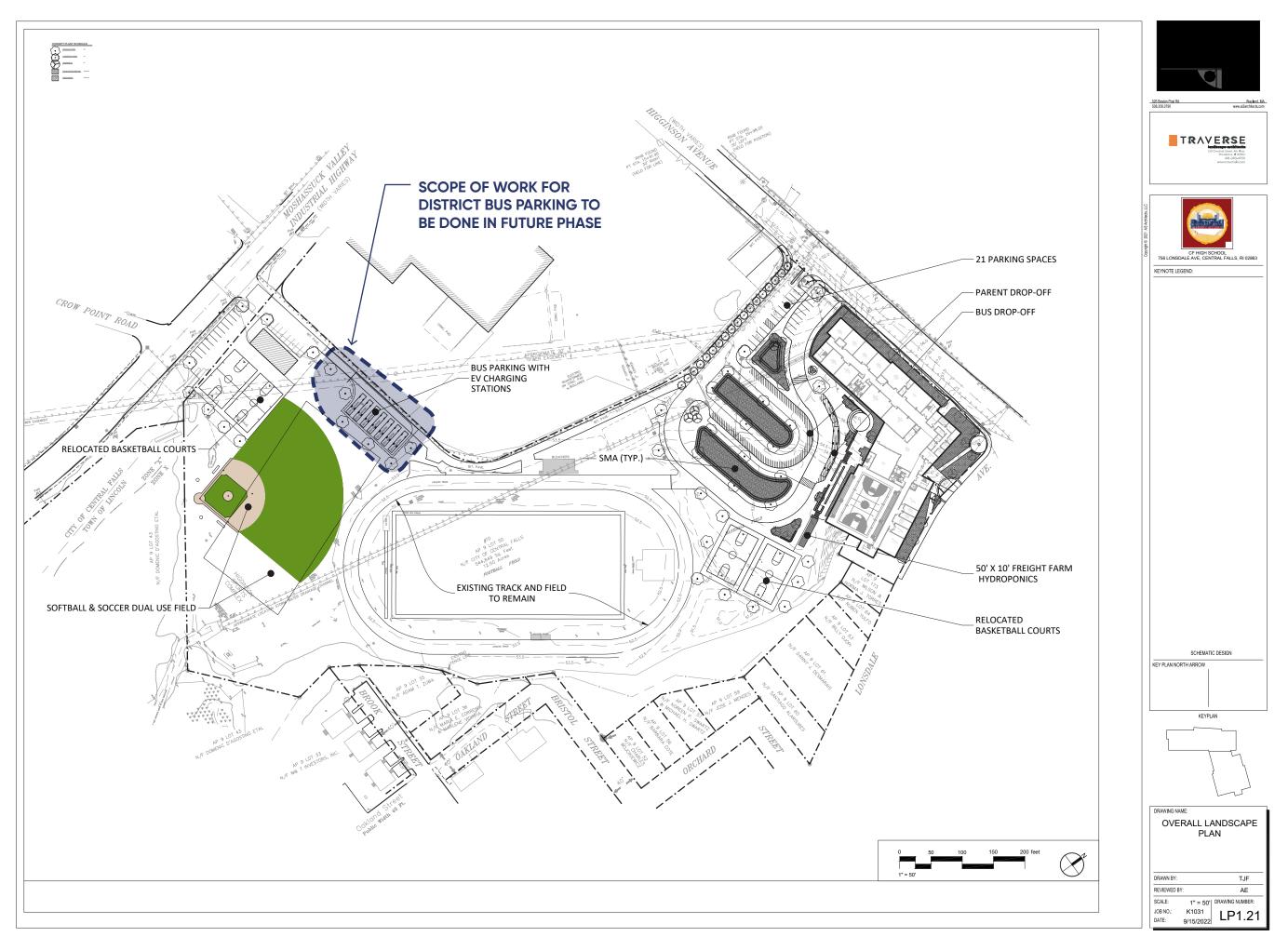


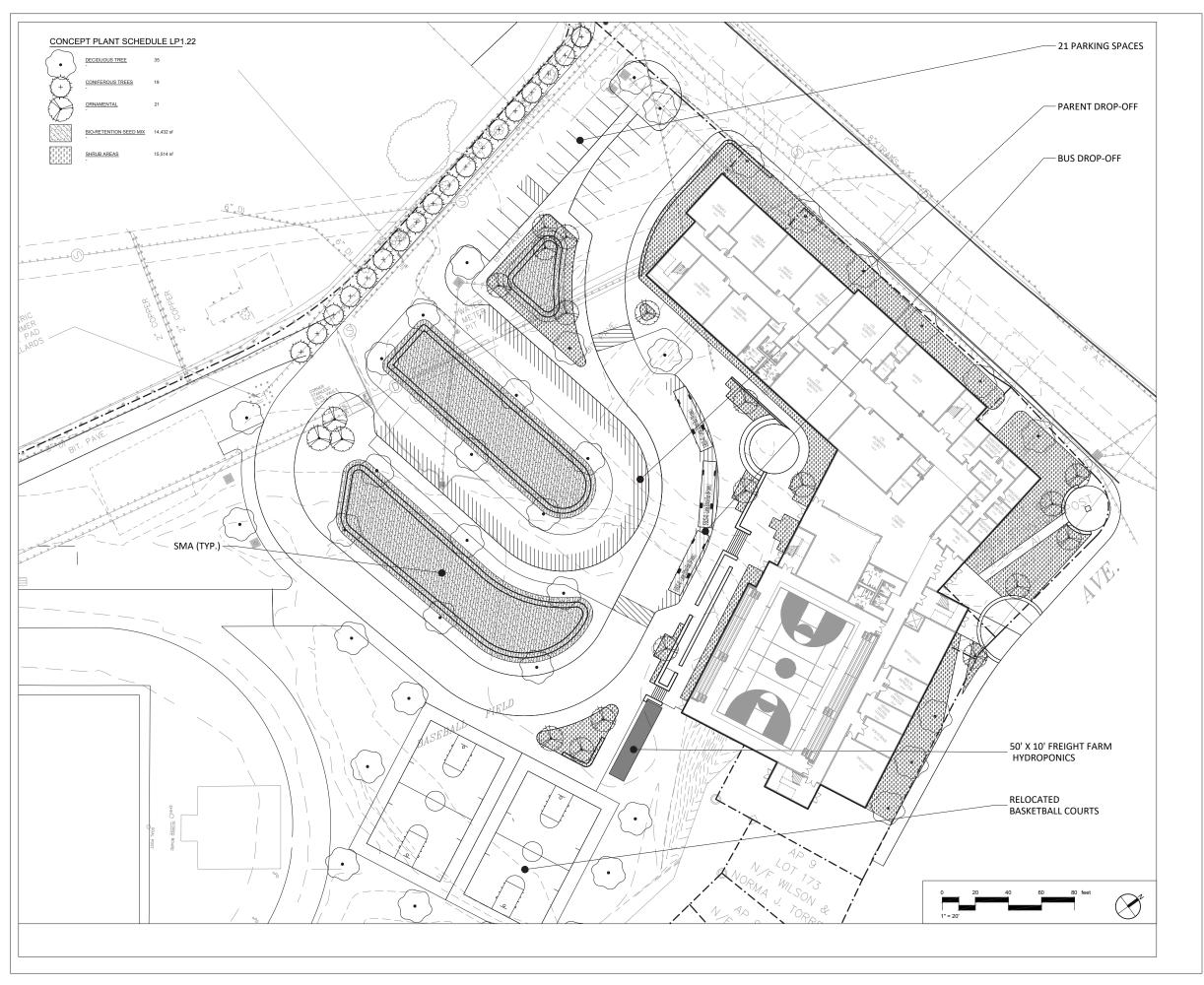


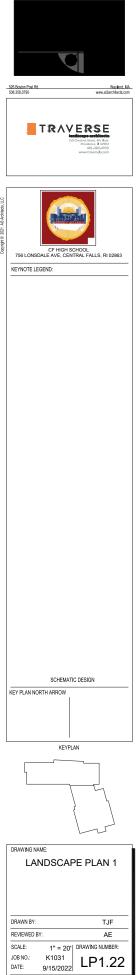


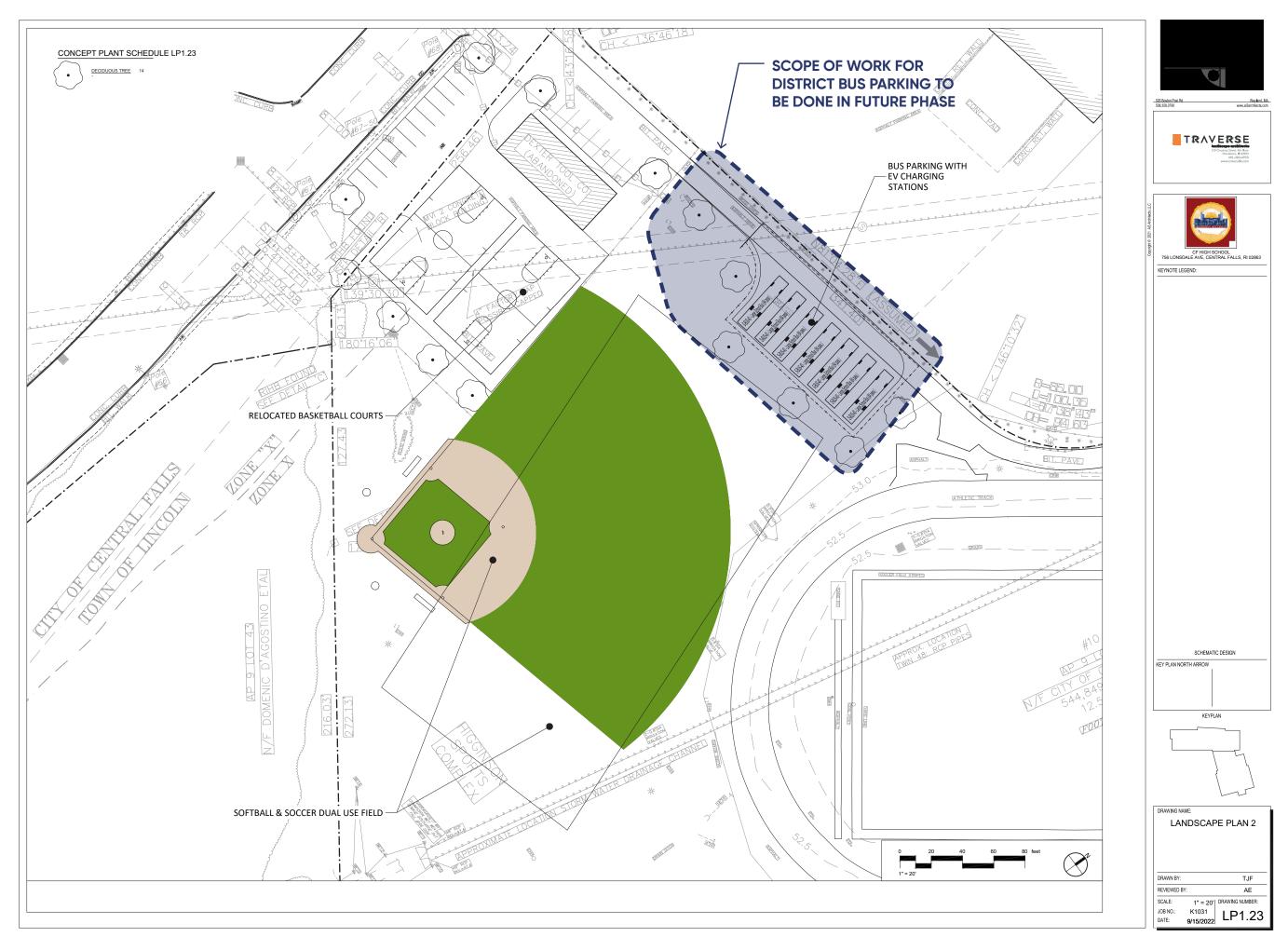






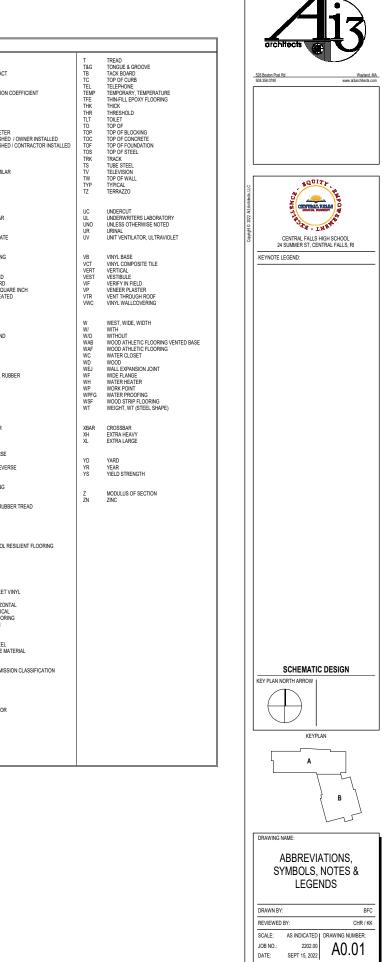


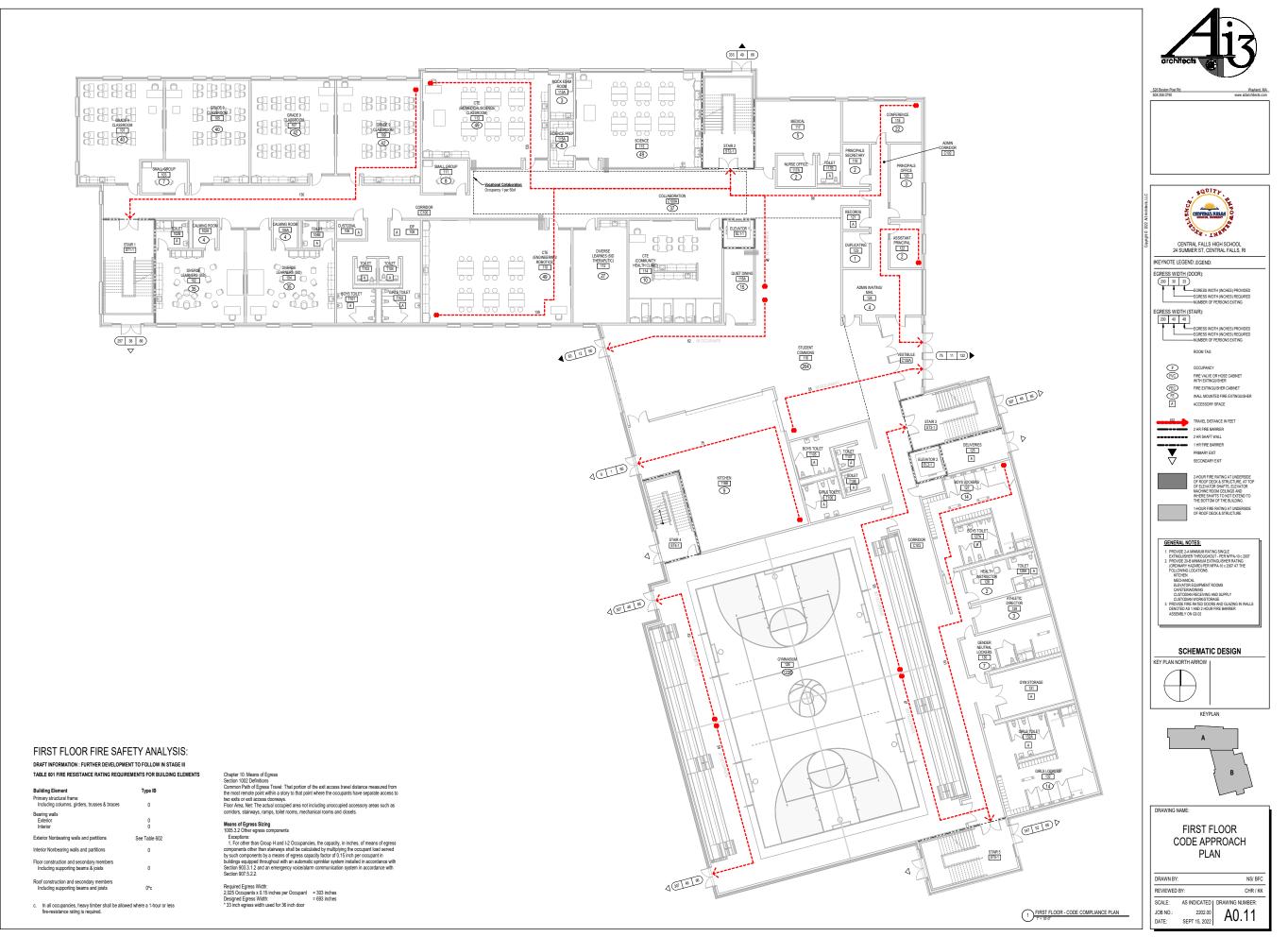


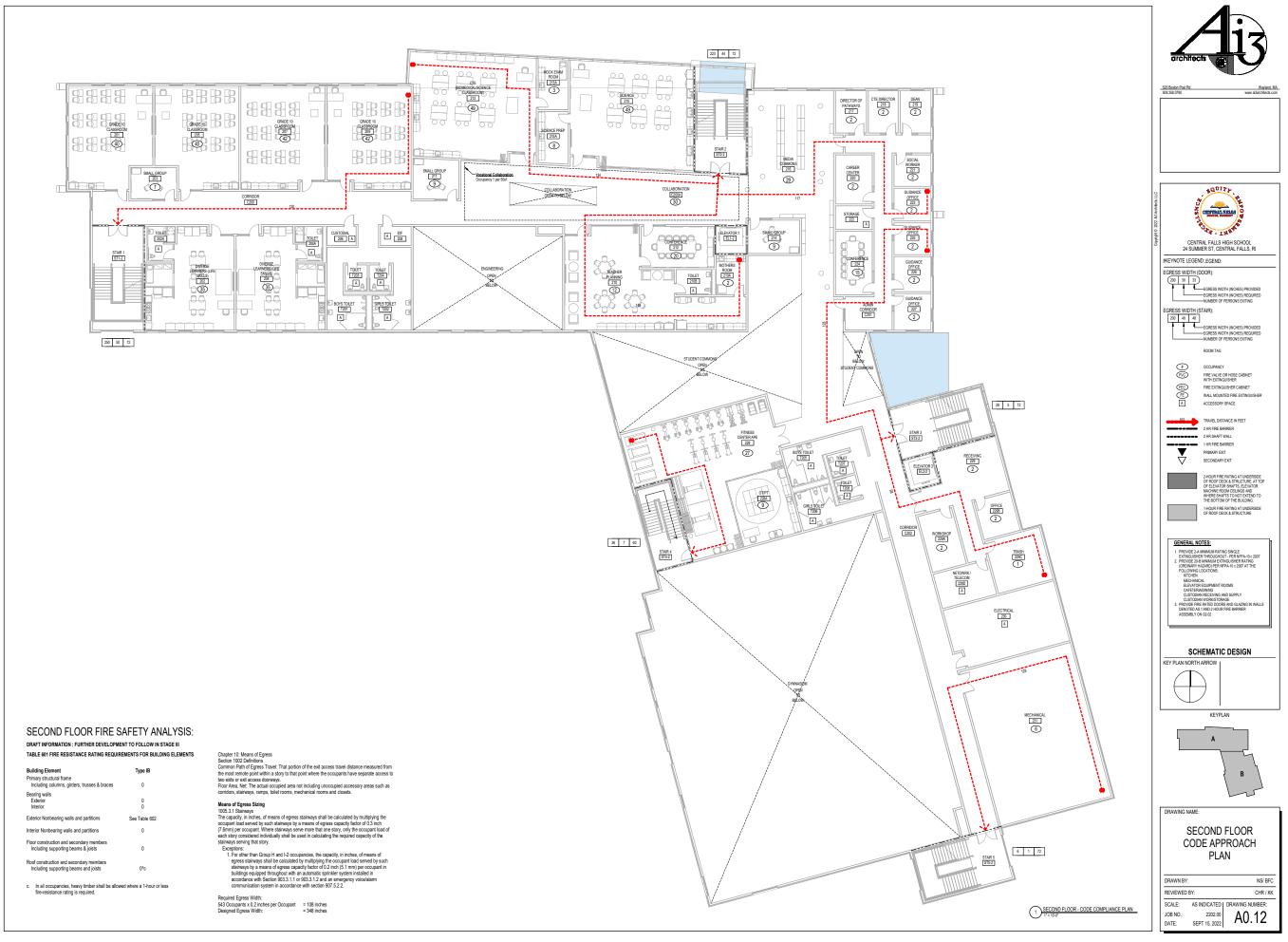


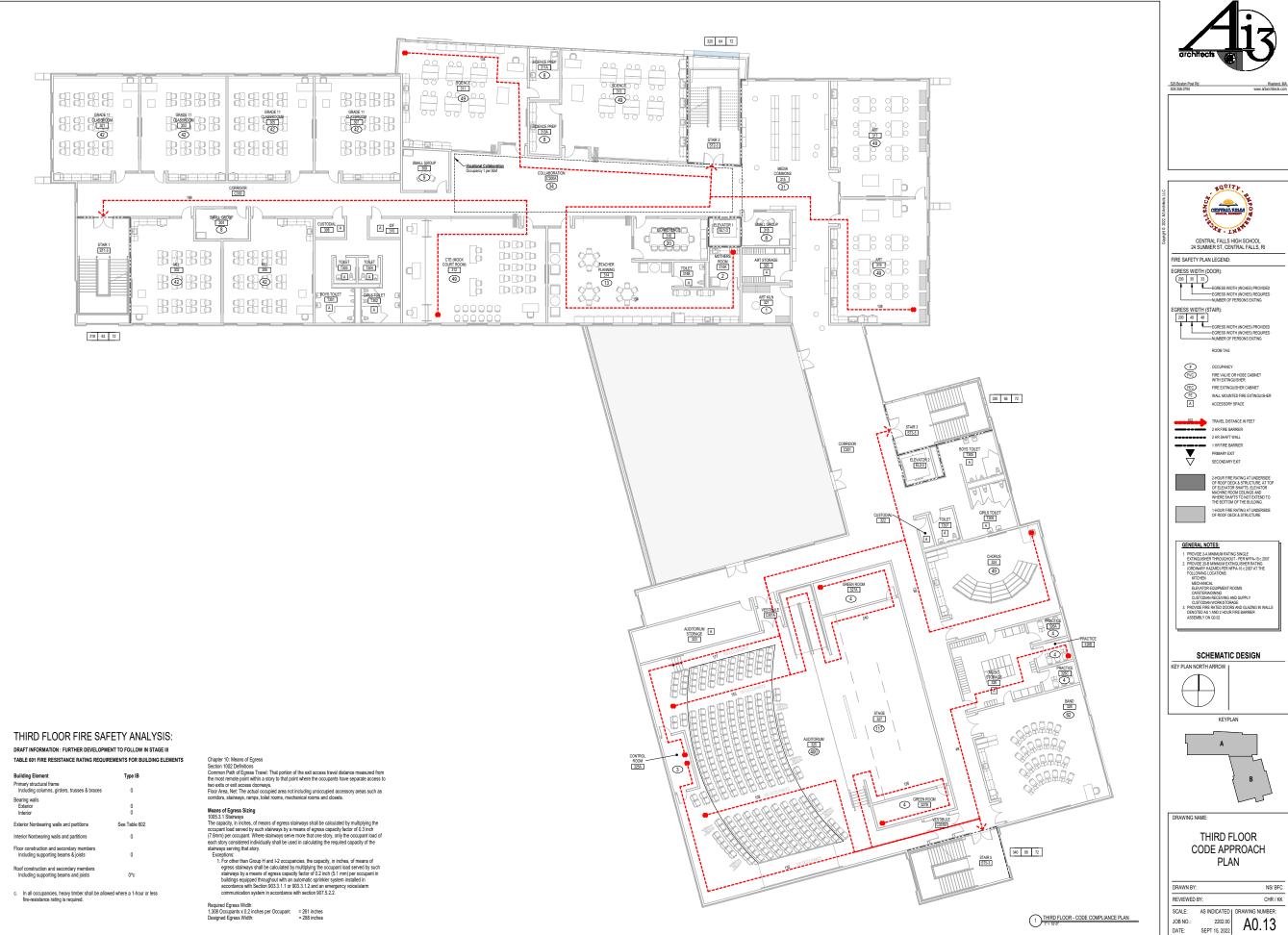
APHIC SYMBOLS		MATERIAL INDICATIO	NS
ROOM NAME	ROOM TAG	20000	BATT INSULATION
10045	DOOR TAG		BRICK, STONE MASONRY
(1100-01)	WINDOW TAG		CONTINUOUS BLOCKING
XX	WALL TAG		INTERMEDIATE BLOCKING
вхх	CASEWORK TAG		CONCRETE
Ē	EQUIPMENT TAG		CONCRETE MASONRY
	NEW COLUMN GRID LINES		EARTH
- CEVEL 1	DATUM/SPOT ELEVATION		FIRESAFING
X AXX Ref	BUILDING SECTION		GRAVEL
X AXX Ref	DETAIL		GYPSUM - PLASTER
X AXX Ref	WALL SECTION		MINERAL FIBER INSULATION
	CALLOUT		PLYWOOD
AXX Ref	EXTERIOR ELEVATION		RIGID INSULATION
Ref X AXX X Ref	INTERIOR ELEVATION		STEEL
Ref	INTERIOR ELEVATION		VINYL WALL GRAPHIC
# VIEW NAME SCALE	TITLE MARK		WOOD FINISH
\square	NORTH ARROW		
\cup	NUT I HARKOW		
<u> </u>	WOOD GRAIN DIRECTION		

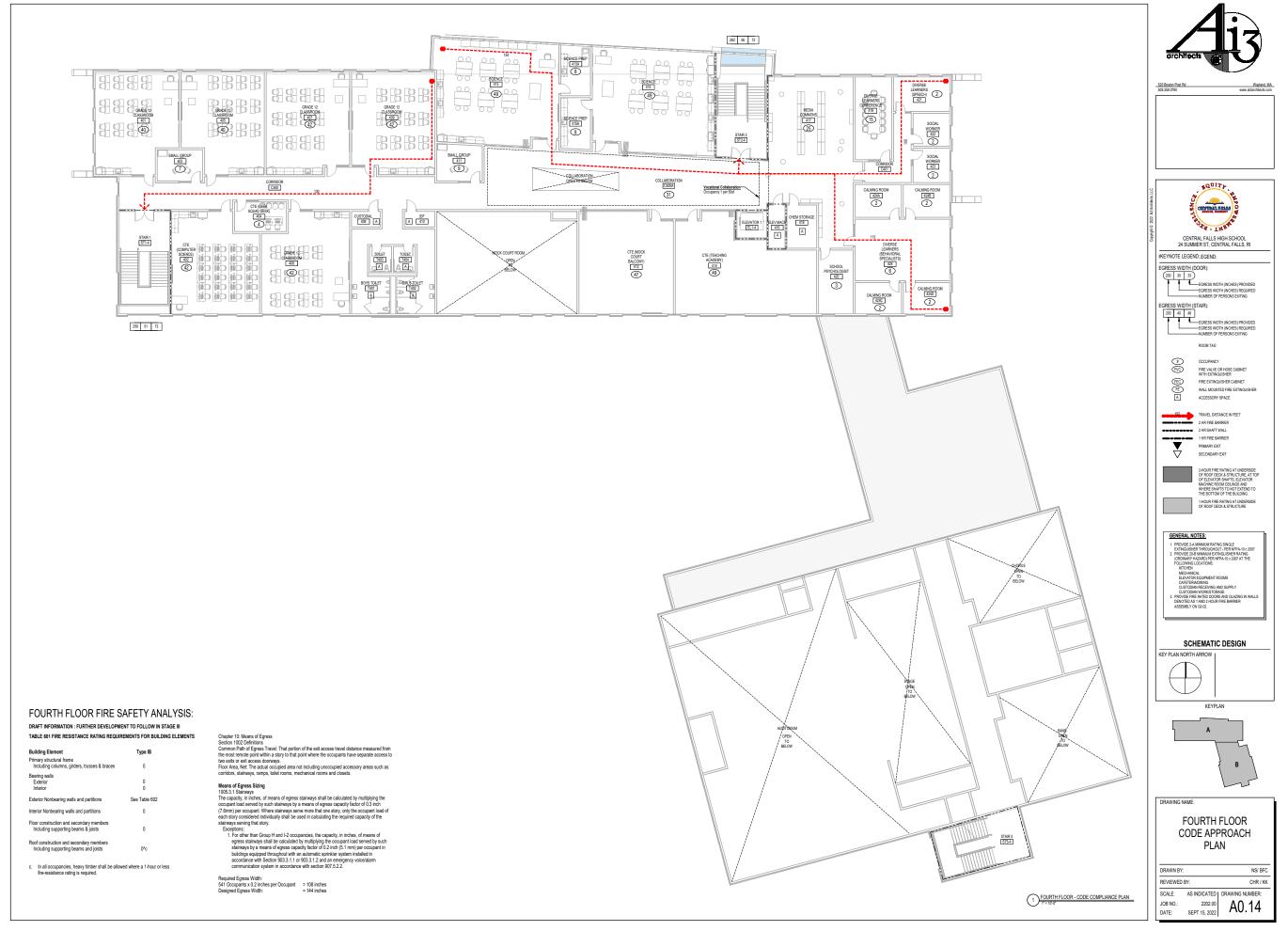
A	ACRE	FA	FIRE ALARM	N	NORTH
AC ACST	AIR CONDITIONING ACOUSTICAL	FAB FAF	FABRICATE FLUID-APPLIED ATHLETIC FLOORING	NAT	NATURAL NOT IN CONTRACT
ACST	ACOUSTICAL ACOUSTICAL CEILING TILE	FAF	FLOID-APPLIED ATHLETIC FLOORING FLAT BAR	NO	NUMBER
AD	AREA DRAIN	FD	FLOOR DRAIN	NOM	NOMINAL
ADD	ADDENDUM	FDVC FF	FIRE DEPARTMENT VALVE CABINET	NRC	NOISE REDUCTION
ADDL ADJ	ADDITIONAL ADJUSTABLE, ADJACENT	FEC	FIRE EXTINGUISHER FIRE EXTINGUISHER CABINET	NIS	NOT TO SCALE
AFF	ABOVE FINISH FLOOR	FEJ	FLOOR EXPANSION JOINT		
AGGR	AGGREGATE	FF	FINISH FLOOR	OA	OVERALL
AHU ALT	AIR HANDLING UNIT AI TERNATE	FH	FIRE HYDRANT FINISH	OC OD	ON CENTER OUTSIDE DIAMETER
ALUM	ALUMINUM	FIN GR	FINISH GRADE	OFOI	OWNER FURNISHEE
ANOD	ANODIZED	FIX	FIXED	OFCI	OWNER FURNISHEE
AP APRX	ACCESS PANEL APPROXIMATE	FIXT FLASH	FIXTURE FLASHING	OH OPER	OVERHEAD OPERABLE
ARCH	APPROXIMATE ARCHITECTURAL	FLASH	FLASHING FLEXIBLE	OPNG	OPENING
VG	AVERAGE	FLUOR	FLUORESCENT	OPP	OPPOSITE / SIMILAF
\$	AND ANGLE	FLR FND	FLOOR FOUNDATION	OZ	OUNCE
9	ANGLE	FPRF	FIRE PROOFING		
-		FRT	FIRE RETARDANT TREATED	P	PAINT
BC	BRICK COURSE	FS FT	FOOD SERVICE FOOT, FEET	PAR PERF	PARALLEL PERFORATED
D	BOARD	FTG	FOOTING	PERP	PERPENDICULAR
3G	BELOW GRADE	FTR	FINNED TUBE RADIATION	PG	PAINT GRADE
BL BLDG	BUILDING LINE BUILDING	FURN FURR	FURNITURE FURRING	PL PLAM	PLATE PLASTIC LAMINATE
SLDG SLK	BUILDING BLACK	FURR	FUTURE	PLAM	PLASTIC LAMINATE PLUMBING
BLKG	BLOCKING			PLAS	PLASTER
LR M	BOILER		CALLOR	PNL	PANEL, PANELING
TM	BEAM, BENCHMARK BOTTOM	GA GALV	GAUGE GALVANIZED	POL PR	POLISHED PAIR
TU	BRITISH THERMAL UNIT	GC	GENERAL CONTRACTOR	PRFB	PREFABRICATED
OW	BOTTOM OF WALL	GEN	GENERAL, GENERATOR GLASS FIBER REINFORCED GYPSUM	PRTBD PSI	PARTICLE BOARD POUNDS PER SQUA
		GFRG	GLASS FIBER REINFORCED GYPSOM GLASS FIBER REINFORCED PLASTER	PSI	PRESSURE TREATE
AB	CABINET	GL	GLASS	PTD	PAINTED
B	CHALK BOARD	GND	GROUND	PTN	PARTITION
CBN CJ	CATCH BASIN CONTROL JOINT	GWB GYP	GYPSUM WALL BOARD GYPSUM	PWD	PLYWOOD
CL	CENTERLINE	l oir	5.1.55m		
CLG	CEILING			QR	QUARTER ROUND
CLKG	CAULKING CLOSET	H HC	HIGH HOLLOW CORE	QT QUAL	QUARRY TILE QUALITY
LR	CLEAR	HDW	HARDWARE	QUAL	QUANTITY
LSRM	CLASSROOM	HM	HOLLOW METAL		
CMT CMTB	CERAMIC MOSAIC TILE CERAMIC MOSAIC TILE BASE	HORZ	HORIZONTAL HIGH POINT	R	RADIUS, RISER, RUI
CMU	CONCRETE MASONRY UNIT	HP	HOUR	RB	RUBBER BASE
OL	COLUMN	HSMB	HORIZONTAL SLIDING MARKER BOARD	RCPT	RECEPTACLE
COMP	COMPRESSIBLE CONCRETE	HT	HEIGHT HEATING VENTILATION & AIR CONDITIONING	RD REC	ROOF DRAIN RECESSED
CONST	CONSTRUCTION	HW	HEATING VENTILATION & AIR CONDITIONING HOT WATER	RECT	RECTANGULAR
CONT	CONTINUOUS	HWD	HARDWOOD	REF	REFERENCE
ONTR	CONTRACTOR			REFL	REFLECTED
CORR CPT	CORRIDOR CARPET	ID	INSIDE DIAMETER	REFR REINF	REFRIGERATOR REINFORCED
RS	COURSE	IN	INCH, INCHES	REQD	REQUIRED
r rb	CERAMIC TILE CERAMIC TILE BASE	INCL	INCLUDE, INCLUSIVE	RESIL	RESILIENT REVISE, REVERSE
Ъ R	CERAMIC TILE BASE CENTER	INSUL	INSULATION, INSULATED INTERIOR	REV	REVISE, REVERSE RIGHT HAND
JH	CABINET UNIT HEATER	INV	INVERT, INVERSE	RHR	RIGHT HAND REVER
W	COLD WATER			RL	RAIN LEADER
	CHANNEL	JAN	JANITOR	RLG RO	RAILING ROUGH OPENING
		JT	JOINT	RR	RUBBER RISER
BI	DEEP			RT	RIGHT
L G	DOUBLE DEGREE	KD	KNOCKED DOWN	RTR	RUBBER TILE, RUBE
G MO	DEGREE	KEC	KITCHEN EQUIPMENT CONTRACTOR		
PT	DEPARTMENT	KIT	KITCHEN	s	SOUTH
ET	DETAIL	KW	KILOWATT	SC	SOLID CORE
= A	DRINKING FOUNTAIN DIAMETER	KWH	KILOWATT PER HOUR	SCHD SCRF	SCHEDULE STATIC-CONTROL R
FF	DIFFUSER			SECT	SECTION
IM	DIMENSION	L	LEFT, LONG	SEG	SEGMENT
ISP V	DISPENSER	LAM	LAMINATE, LAMINATED	SF	SQUARE FOOT SHELF
V N	DOWN	LAV	POUND	SH	SHEET
PFG	DAMPROOFING	LF	LINEAR FOOT, LINEAR FEET	SHR	SHOWER
2	DOOR	LH	LEFT HAND	SHVT	SEAMLESS SHEET \
RW S	DRAWER DOWNSPOUT	LP	LOW POINT LIGHT	SIM SLH	SIMILAR SLOTTED HORIZON
WG	DRAWING	LTG	LIGHTING	SLV	SLOTTED VERTICAL
				SMFL	SEAMLESS FLOORI
	FAST	MAT	ENTRANCE MATS, ENTRANCE GRATE	SPEC SO	SPECIFICATION SOLIARE
A	EACH	MAT	MATERIAL	SQIN	SQUARE INCH
J	EXPANSION JOINT	MAX	MAXIMUM	SS	STAINLESS STEEL
L	ELEVATION	MB	MARKER BOARD	SSM	SOLID SURFACE MA
LEC	ELECTRICAL FI EVATOR	MECH	MECHANICAL MEMBRANE	ST	STREET
MER	EMERGENCY	MFR	MANUFACTURER	STC	SOUND TRANSMISS
INCL	ENCLOSURE	MIN	MINIMUM	STD	STANDARD
NTR	ENTRANCE ELECTRICAL PANEL, EPOXY PAINT	MISC	MISCELLANEOUS MASONRY OPENING	STL STOR	STEEL STORAGE
Q Q	ELECTRICAL PANEL, EPOXY PAINT EQUAL	MO	MASONRY OPENING MOISTURE RESISTANCE	STOR	STORAGE
QUIP	EQUIPMENT	MTD	MOUNTED	STRL	STRUCTURAL
WC	ELECTRIC WATER COOLER	MTG	MOUNTING, MEETING	SUB	SUBCONTRACTOR
X XCV	EXISTING EXCAVATION	MTL MUL	METAL MULLION	SUSP SWD	SUSPENDED SOFT WOOD
	EXPOSED	MUL	MULLION	SYM	SYMMETRICAL
XΡ					
XP XT XTR	EXTERIOR EXTRUDED			SYN SYST	SYNTHETIC SYSTEM











KEYNOTE LEGEND: 05 31 00.01 COMPOSITE STEEL DECK - SEE STRUCTURAL 05 31 00.11 STEEL ROOF DECK - 3 INCH GALVANIZED - SEE STRUCTURAL 07 21 00.20 GLASS FIBER BLANKET INSULATION - MATCH DEPTH C STUD - UNFACED 07 21 00 22 GLASS FIBER ACOUSTICAL BLANKET INSULATION -MATCH DEPTH OF STUD - UNFACED
 07 21 002
 GLASS FREE ACOUSTICAL BLANKET INSULTATION-07 102

 07 103
 MINERAL PERFIN COTLOL MIRKETS

 07 103
 MINERAL PERFIN COLLATION

 07 101 02
 MINERAL PERFIN ACOUNTICAL MISILITION - 112 INCH

 07 101 02
 MINERAL PERFIN ACOUNTICAL MISILITION - 112 INCH

 07 101 02
 MINERAL PERFIN ACOUNTICAL MISILITION - 112 INCH

 07 101 02
 MINERAL PERFINANCIAL PENTOL - 112 INCH

 07 102 02
 MINERAL SALVITAT - 102 INCH - 110 INCH

 07 103 02
 MINERAL SALVITAT - 102 INCH - 110 INCH

 07 104 02
 MINERAL SALVITAT - 102 INCH - 110 INCH

 07 105 02
 MINERAL SALVITAT - 102 INCH - 110 INCH

 07 102 12
 MINERAL MINERAL MERRE

 07 102 12
 MINERAL MERRINAL LERINEER

 07 102 12
 MINERAL MERRE MINER- 110 INCH

 07 102 12
 MINERAL MERRE MINERAL - 110 INCH

 07 102 123
 MINERAL MERRE MINERAL - 110 INCH

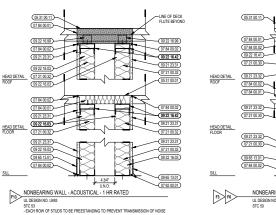
 07 102 124
 MINERAL MERRE MINERAL - 110 INCH

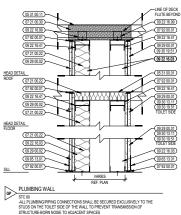
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 MINERAL MERRE MERRE - 110 INCH

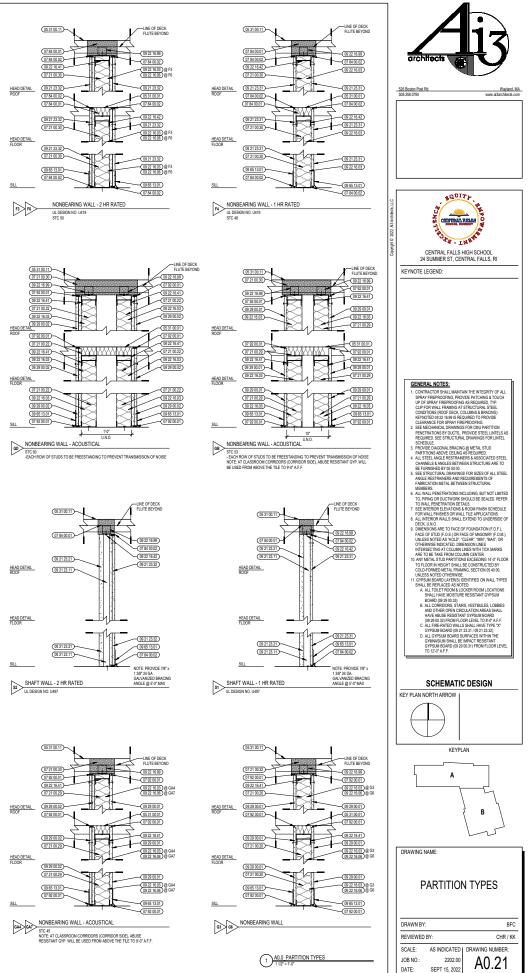
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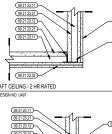
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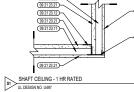
 07 104 13
 MINERAL MERRE MERRE - 10 0.C. MAX 0.2.20.00.1 58.00H GYPSUM BOARD - LEVEL 4 FINISH - 1 LAVER 09.20.002 58.INCH GYPSUM BOARD - LEVEL 4 FINISH - 2 LAVERS 09.30.111 CERAMIC WALL TLE - TYPE CT-1 09.30.1131 CERAMIC WALL TLE - TYPE CT-1 09.65.13.01 RUBBER BASE - 4 INCH





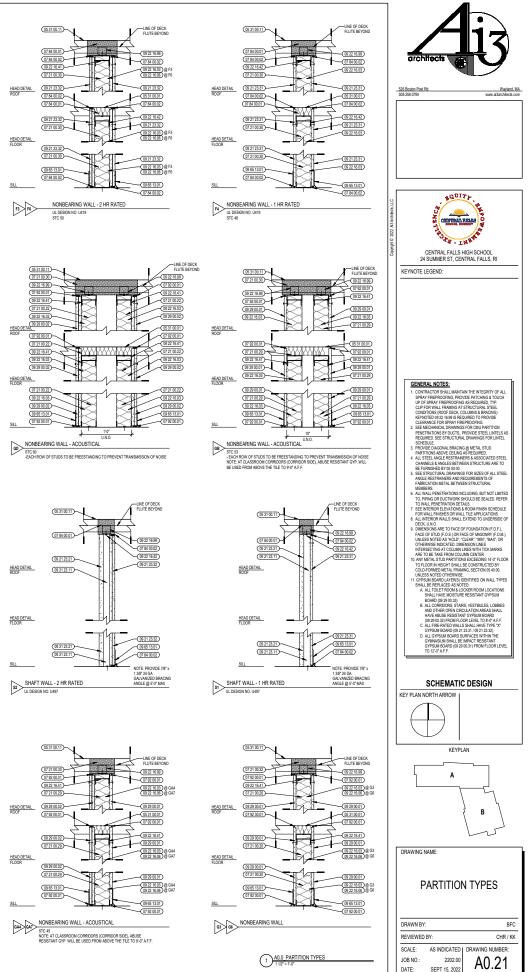


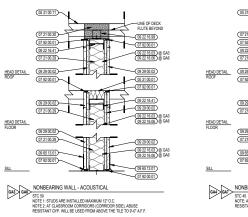


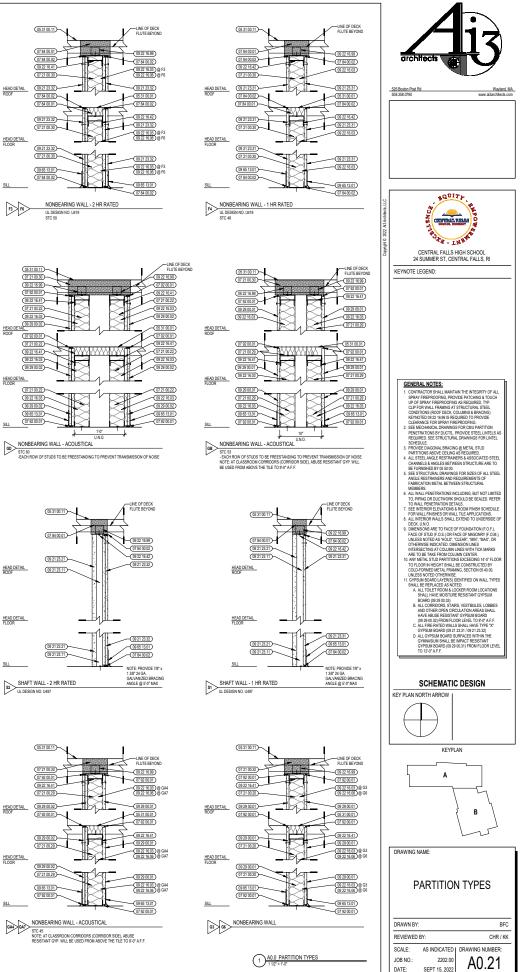


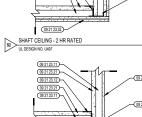
HEAD DETAIL FLOOR

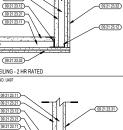
SILL







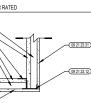


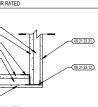


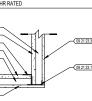










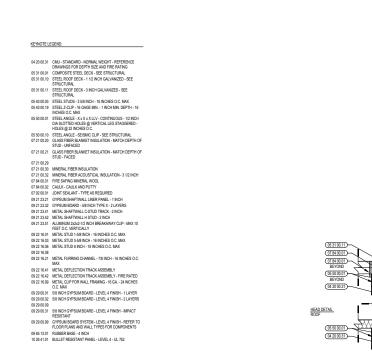


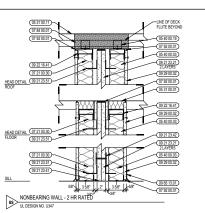


ICES 3 TO PREVENT TRANSMISSION OF NOIS









07 84 00.01 BEYOND

05 50 00.01

04 20 00.31

05 31 00.01

HEAD DETA

HEAD DETAIL

07 84 00.01

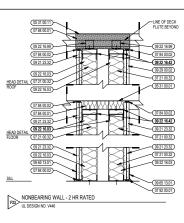
09 65 13

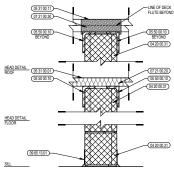
8" CMU NONBEARING WALL - 2 HR RATED

LINE OF DECK FLUTE BEYOND

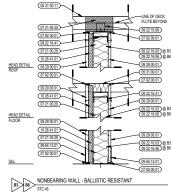
(05 50 00.10)

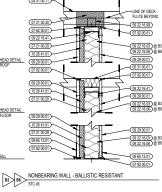
-(04 20 00.31)

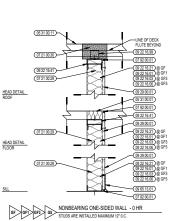












12	STUDS ARE INSTALLED MAXIMUM 12" 0.C.	

2 PARTITION TYPES

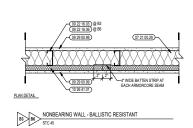
07 21 00.29 (07 21 00.29) PIPE SLEEVE OR SHEE METAL SLEEVE (07 92 00.01)-(07 21 00.29)-(07 21 00.29 WALL PENETRATION DETAILS

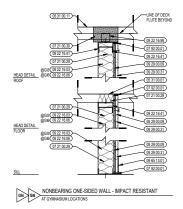
B CMU PLUMBING WALL REF PLANS

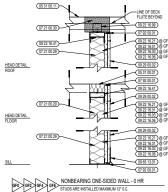
HEAD DETAIL

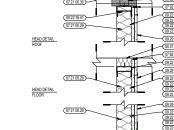
SILL

(04 20 00.) (09 65 13.)



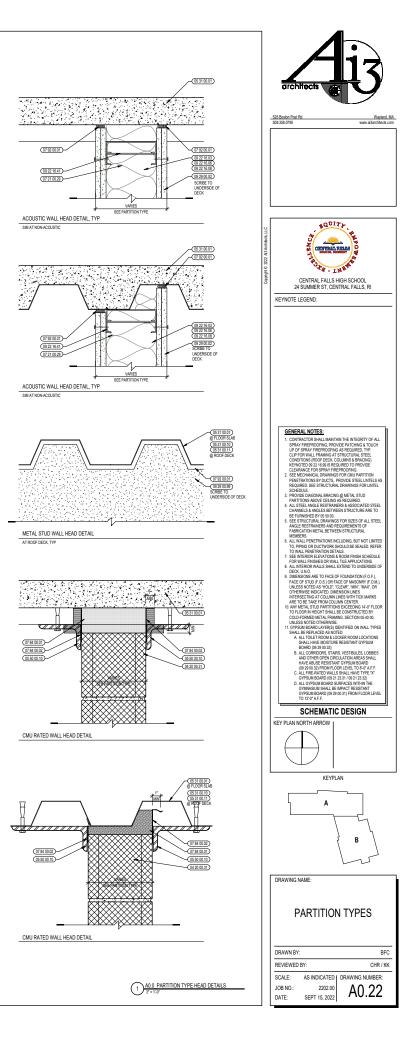














1 <u>FIRST FLOOR PROGRAM PLAN</u> <u>1/16" = 1'-0"</u>



ET

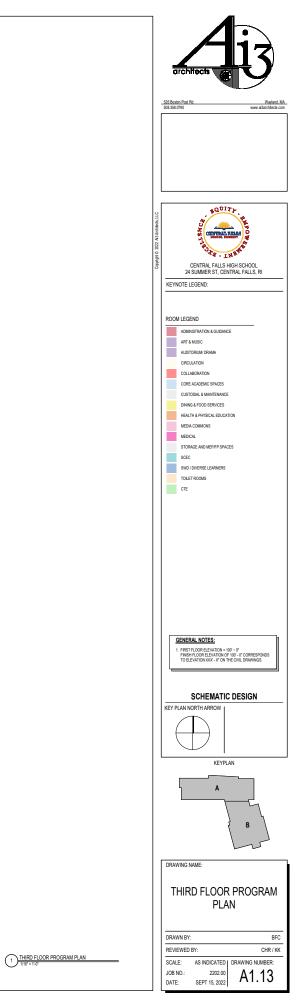




	drichifiects
	SSR Beloto Polt Rd Welson MA 505 358 0790 www.a3architets.com
Cqyright © 2022 M3 Architeds, LLC	CENTRAL FALLS HIGH SCHOOL 24 SUMMER ST, CENTRAL FALLS, RI KEYNOTE LEGEND:
	ROOM LEGEND ADMINISTRATION & GUIDANCE ART & MUSIC AUDITORIUM ORAMA COLLAGORATION COLLAGORATION CORE ACADENIC SPRACES CUSTODAL & MAINTENANCE DINNA & FOOD SERVICES HEALTH & PHYSICAL EDUCATION MEDICAL STORAGE AND MEP/PP SPACES SCEC SWO / ONERSE LEAMERES TOLE FROMS CITE
	SCHEMAL NOTES: 1. PESTALOR ELEXITION "17" /* PESSAGE EXAMING OF 107. 0" CORRESPONDS TO ELEVATION XX: ->* ON THE CIVE DRAWINGS. SCHEMATIC DESIGN KEY PLAN NORTH ARROW
	KEYPLAN
	DRAWING NAME: SECOND FLOOR PROGRAM PLAN
	DRAWN BY: BFC REVIEWED BY: CHR / KK SCALE: AS INDICATED DATE: SEPT 15, 2022 AAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAAA

1 SECOND FLOOR PROGRAM PLAN

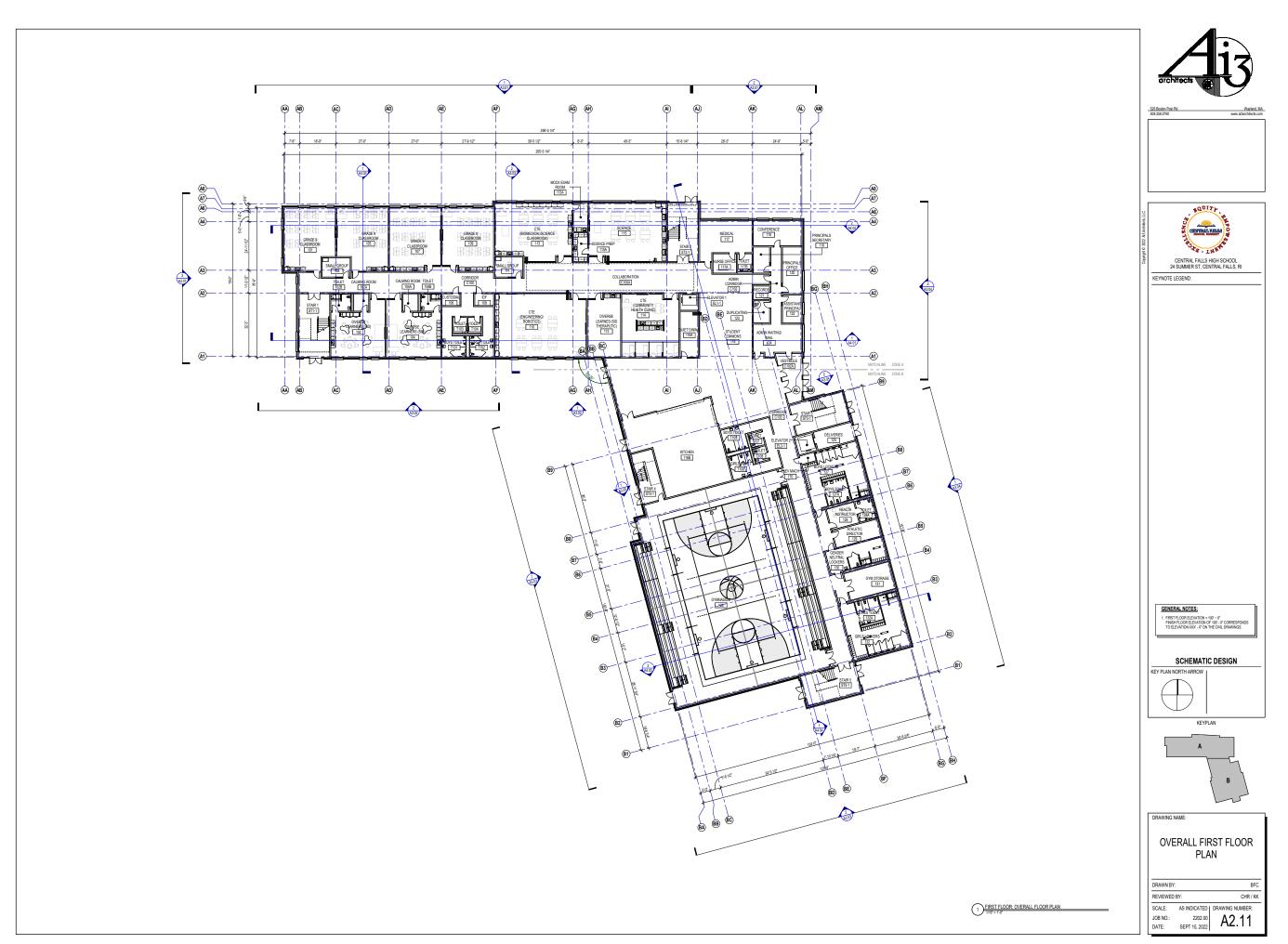


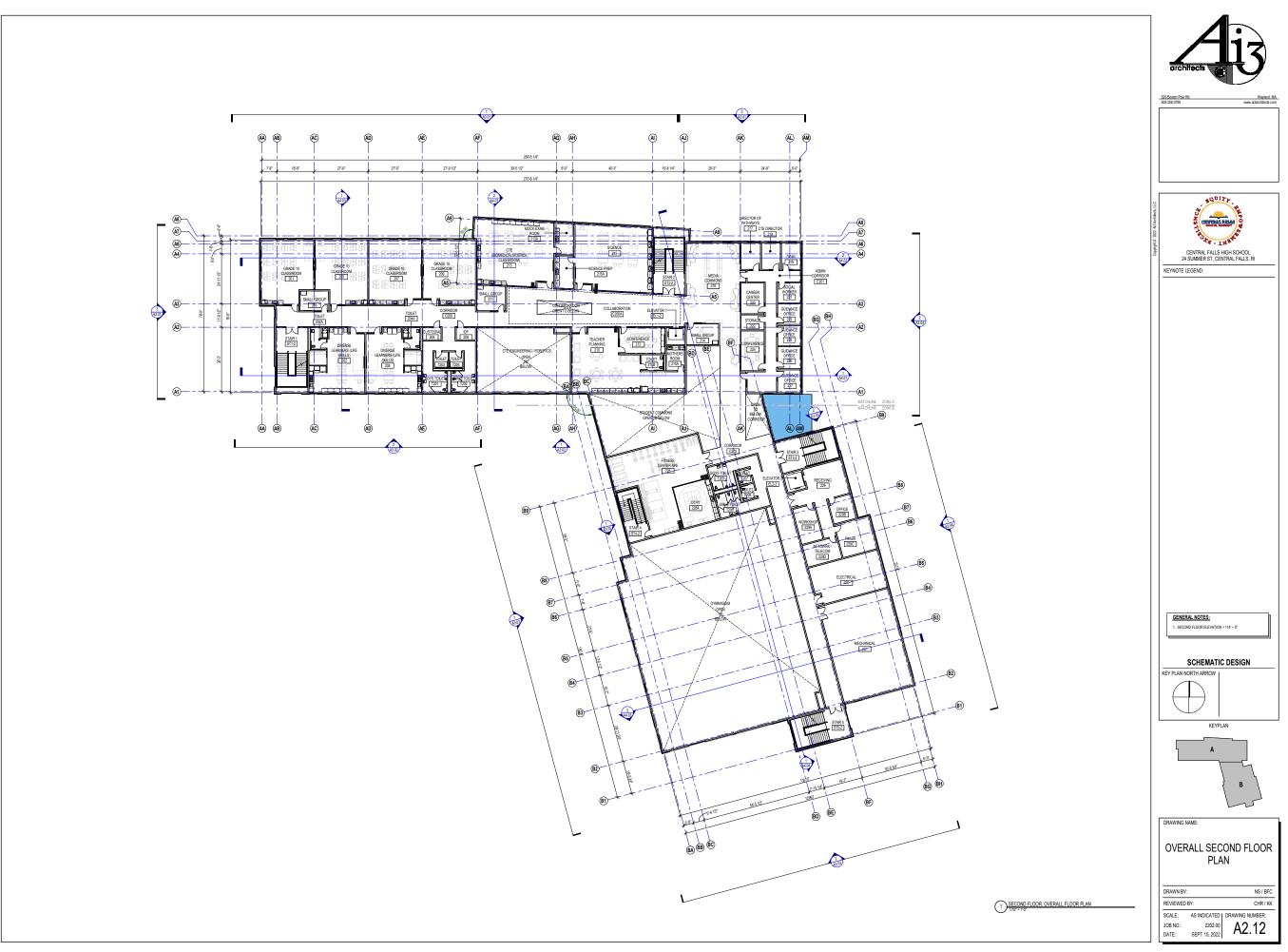


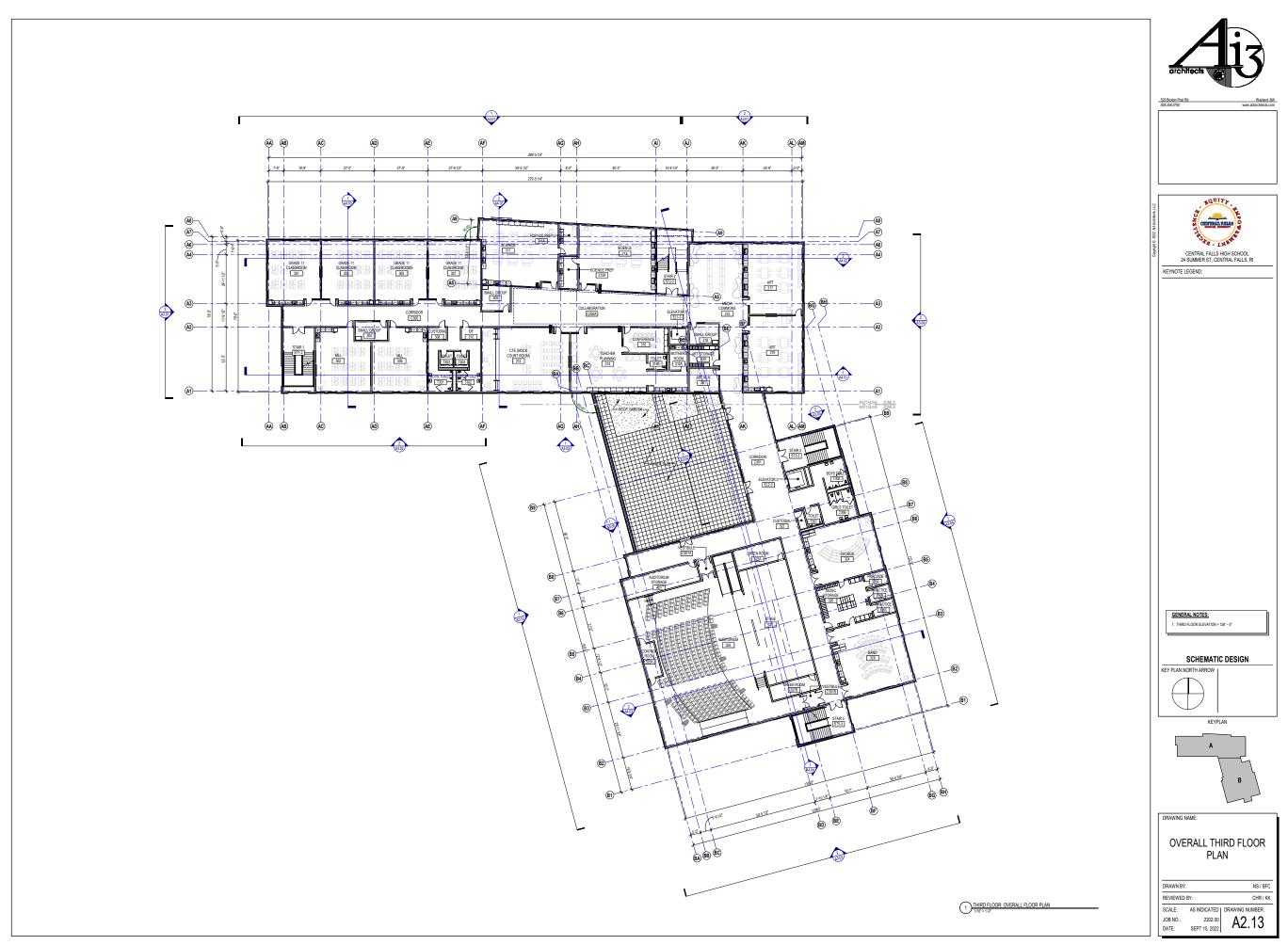


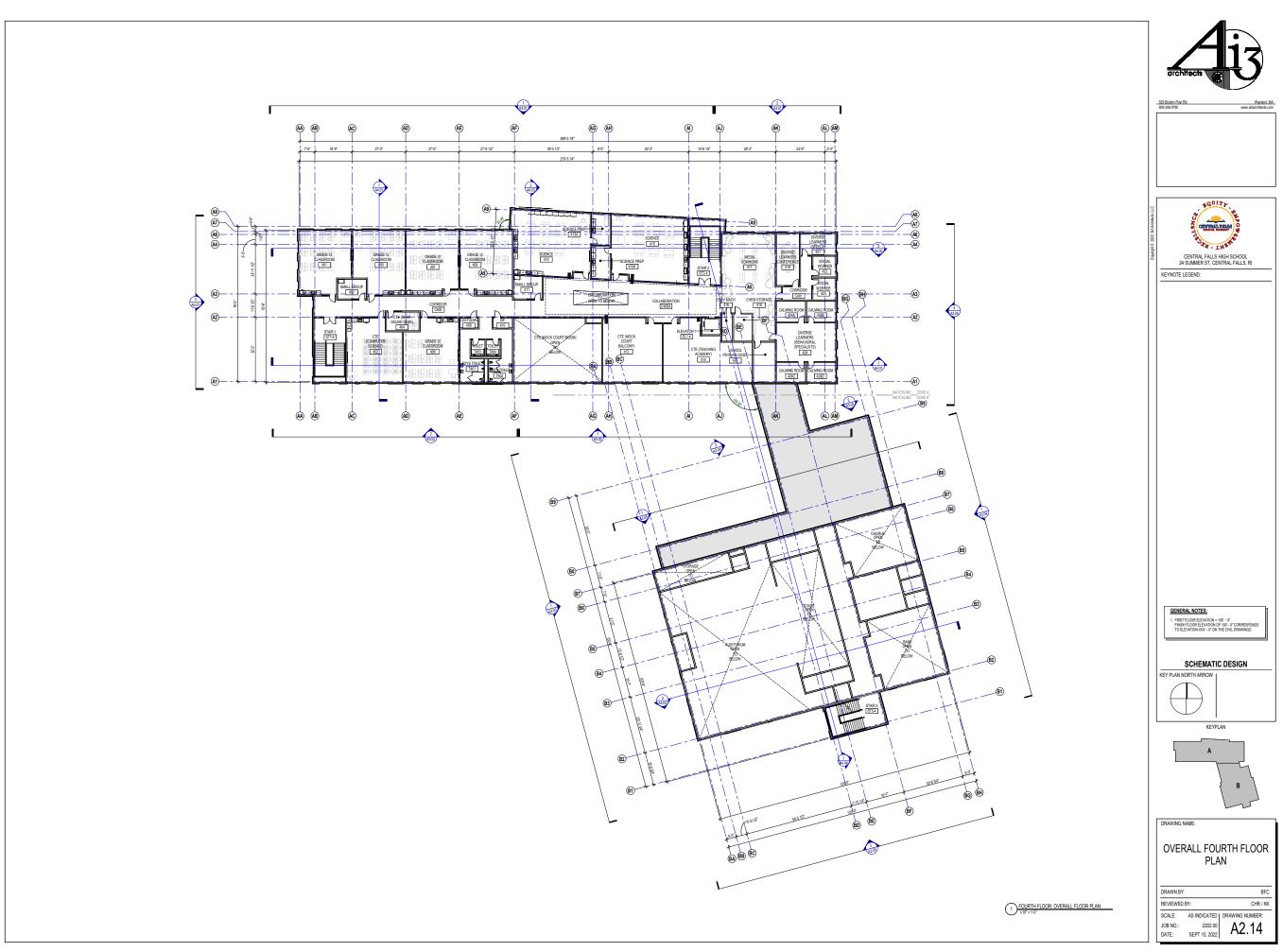
All the second s
CENTRAL FALLS HIGH SCHOOL 24 SUMMER ST, CENTRAL FALLS, RI KEYNOTE LEGEND ROOM LEGEND ADMISTRATION & GUIDANCE ATT & MUSIC ADMISTRATION & GUIDANCE ATT & MUSIC ADMISTRATION & GUIDANCE ADMISTRATION & G
GENERAL NOTES: 1. PROTIL CORRELATION 1470 - 77 PROTING 1470 - 77 ON THE ONE DROWNINGS TO BENATION XXX - Y ON THE ONE DRAWNINGS SCHEMATIC DESIGN KEY PLAN NORTH ARROW KEYPLAN
A B B DRAWING NAME: FOURTH FLOOR PROGRAM PLAN DRAWIN BY: NS / BFC REVIEWED BY: CHR / KK SCALE: AS INDICATED JOR NO: 2202.00 DATE: SEPT 15.2022 DATE: SEPT 15.2022

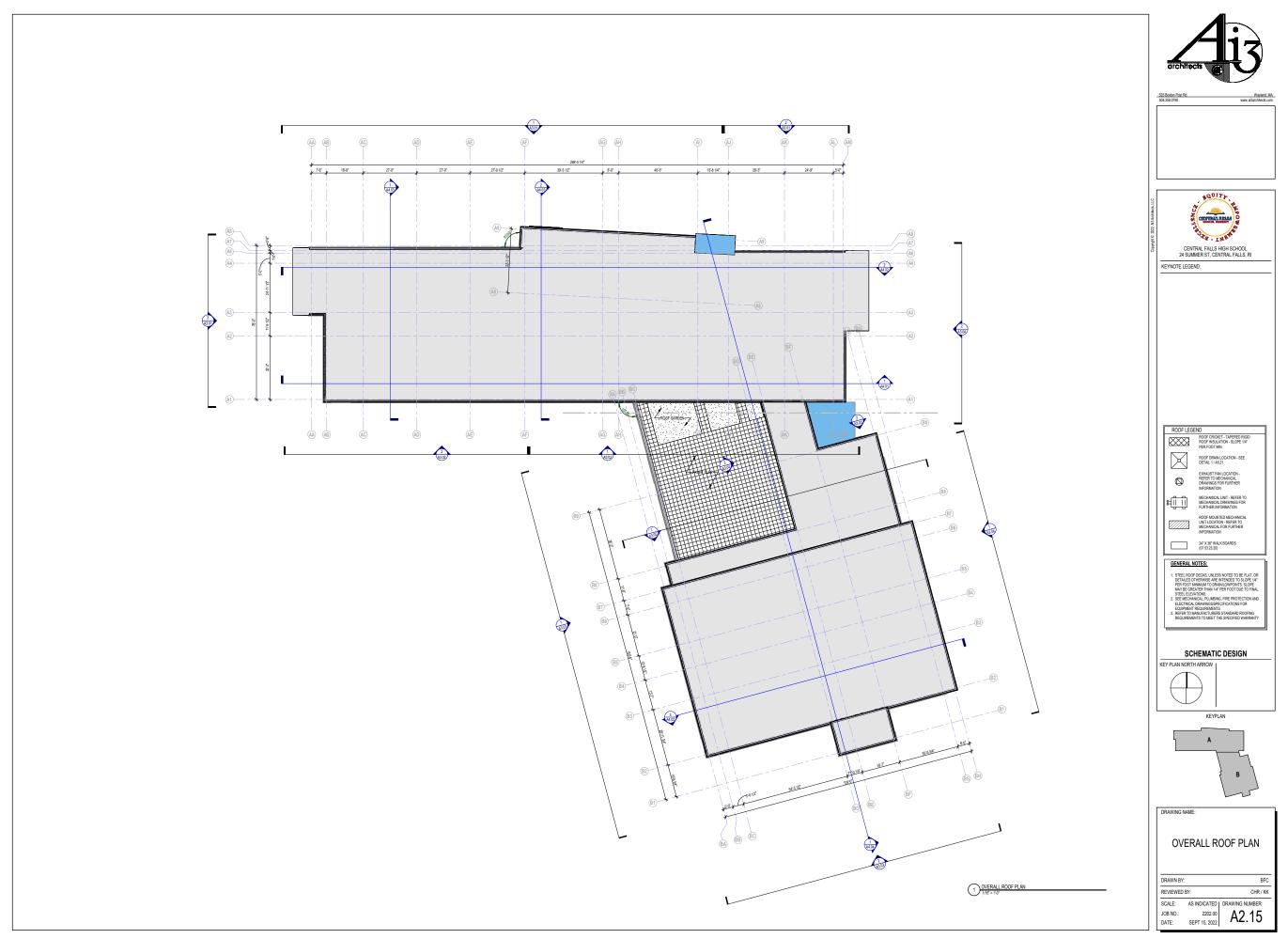
1 <u>FOURTH FLOOR PROGRAM PLAN</u> 1/16" = 1-4"

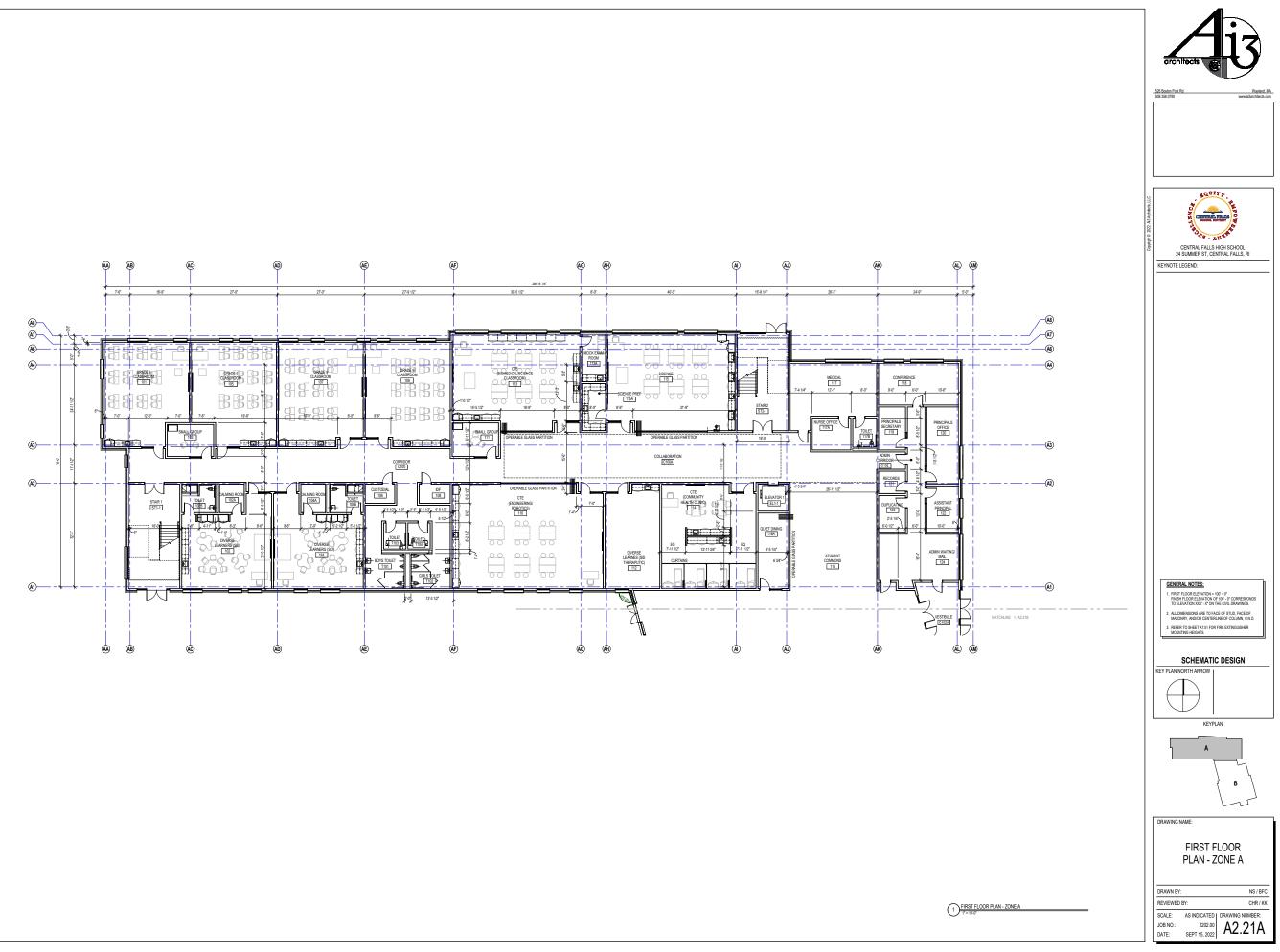


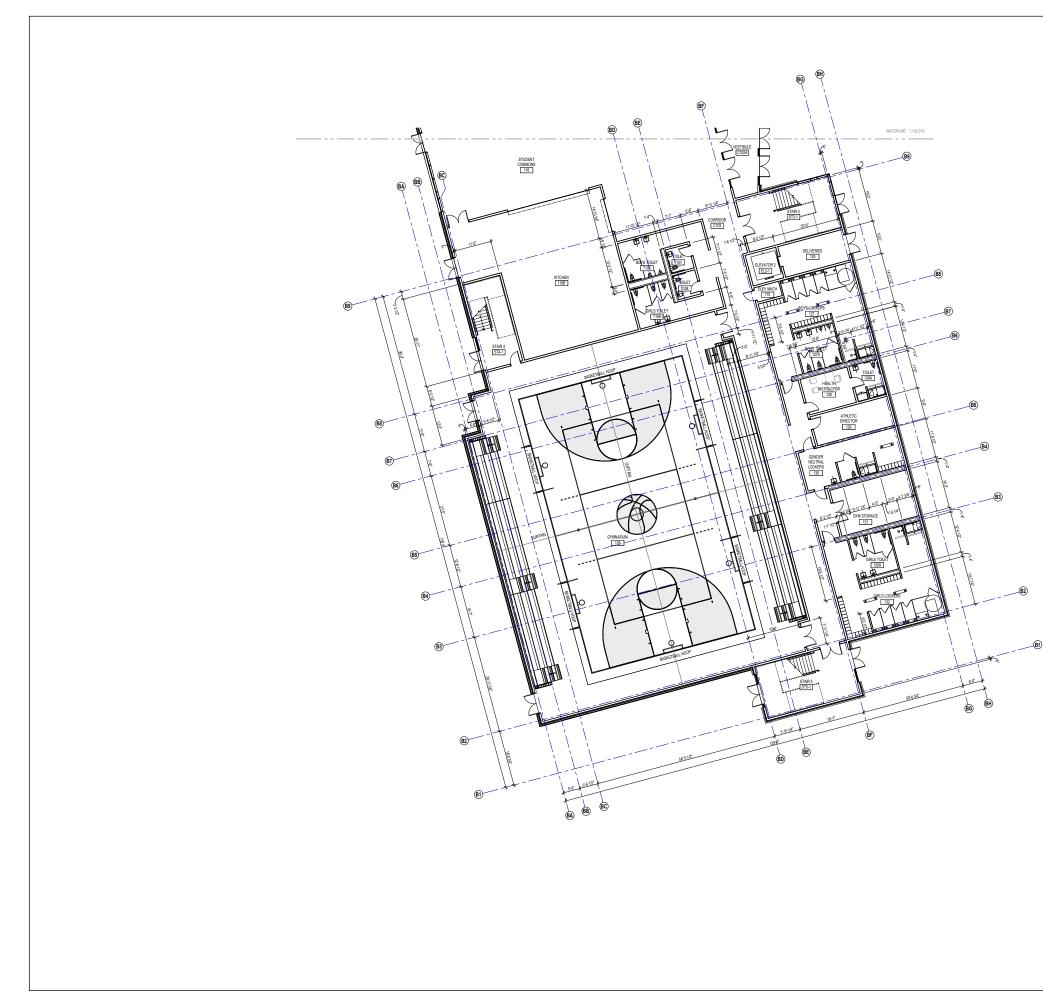


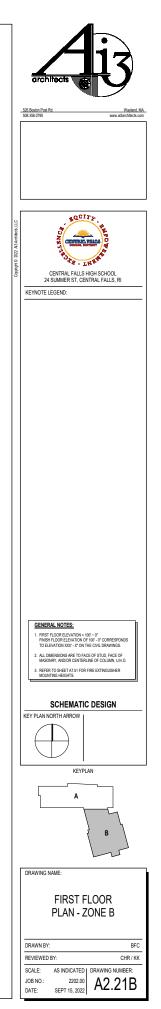


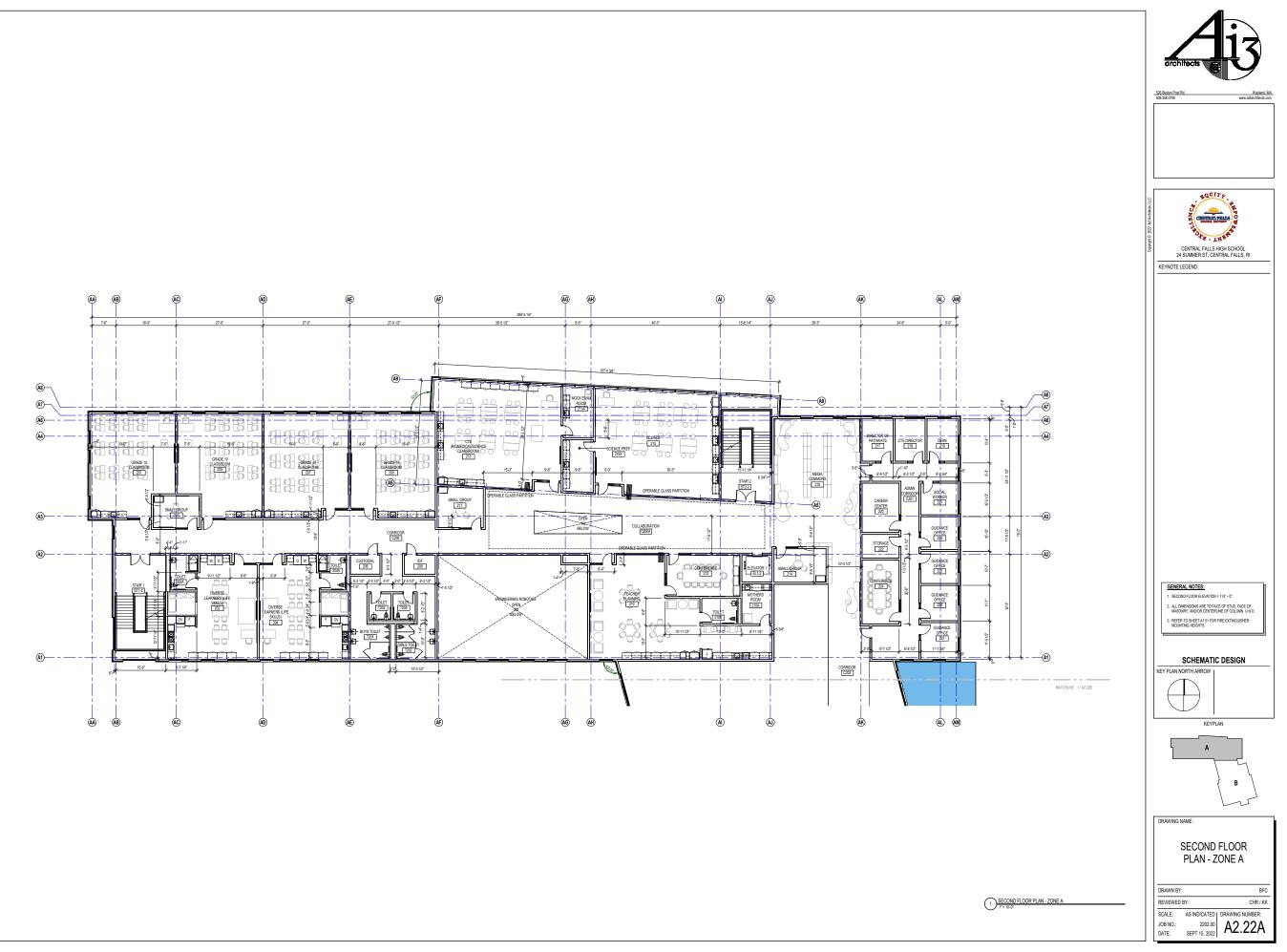


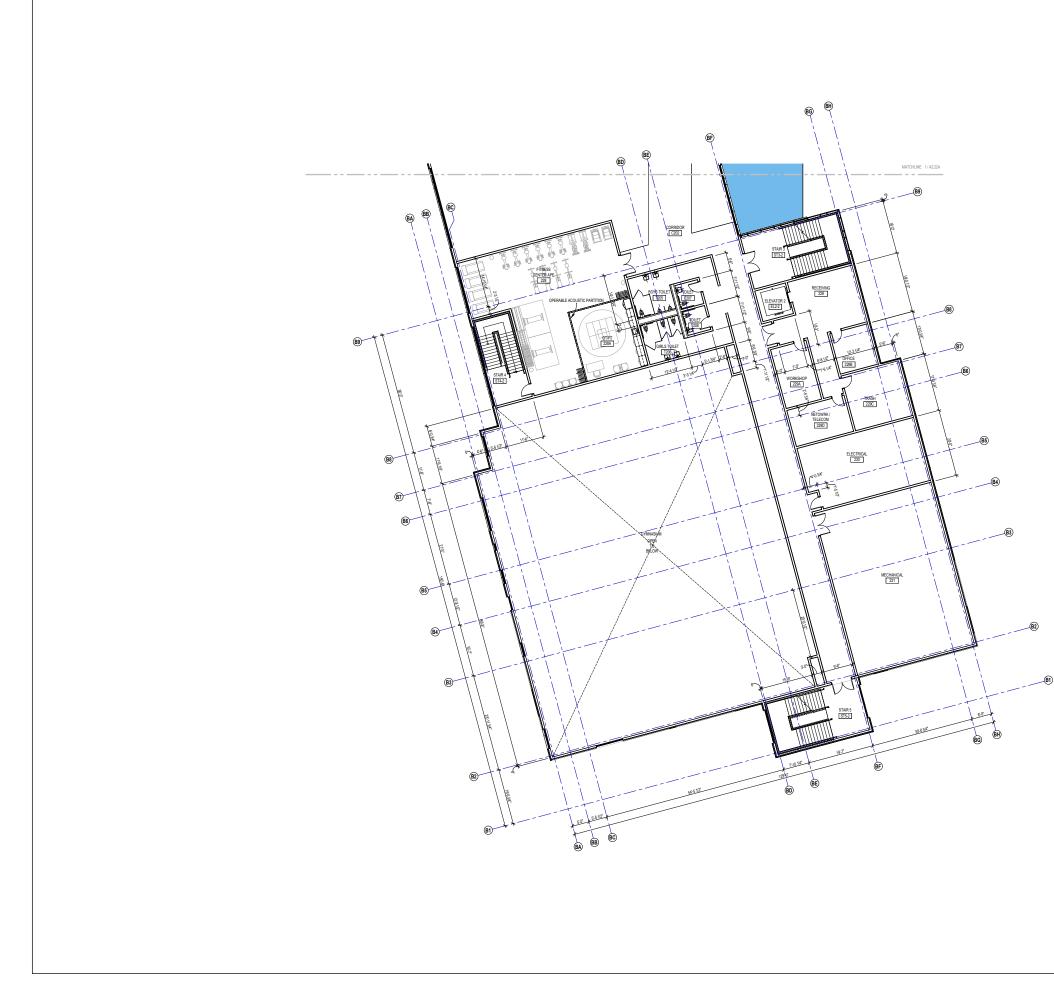


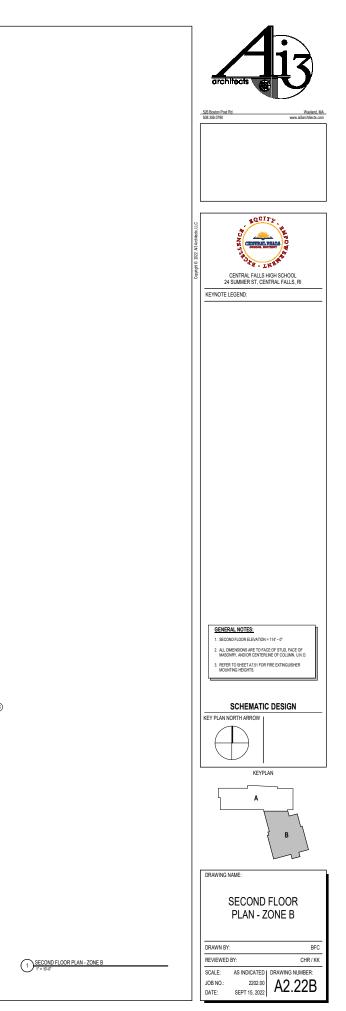


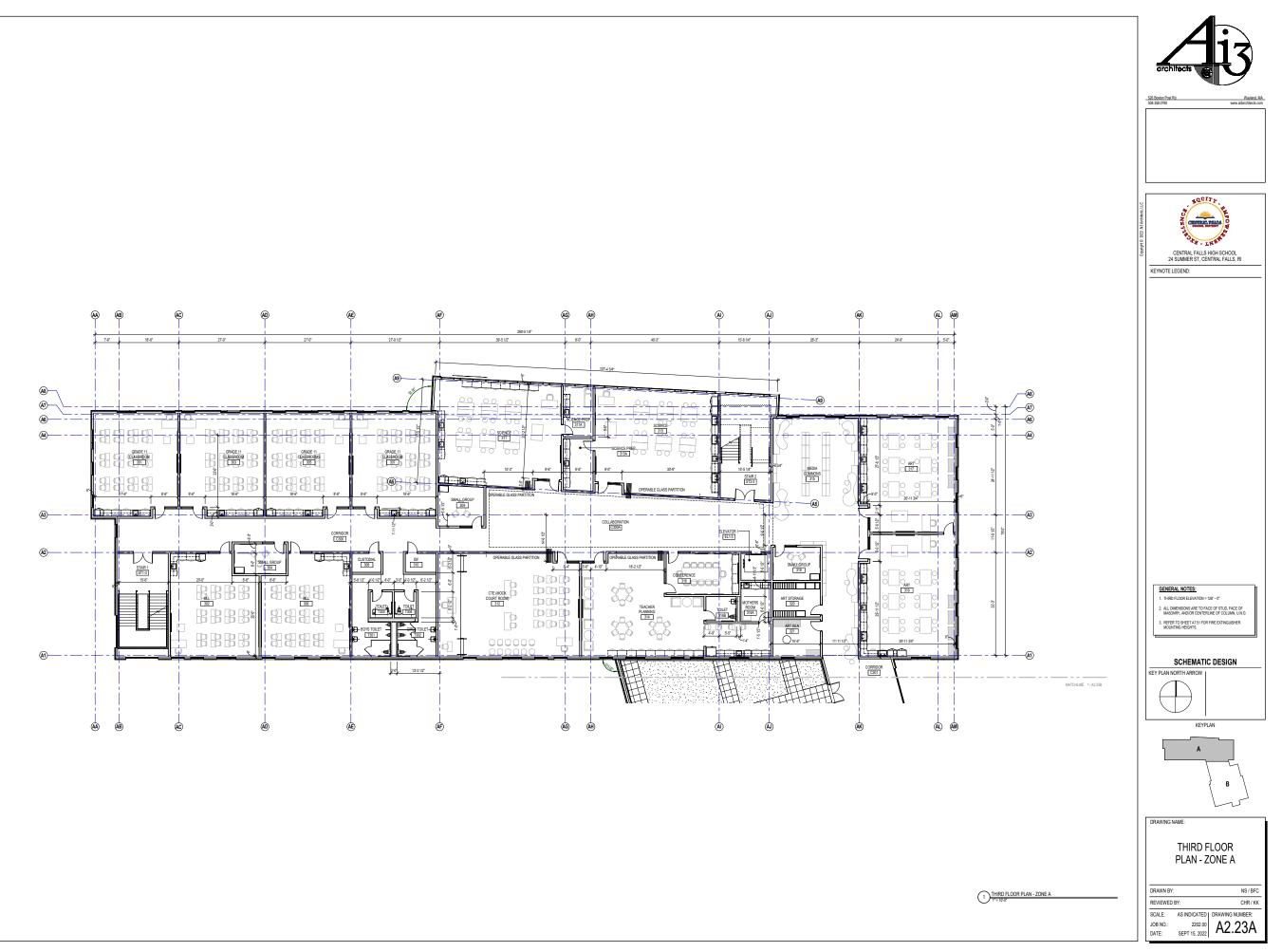


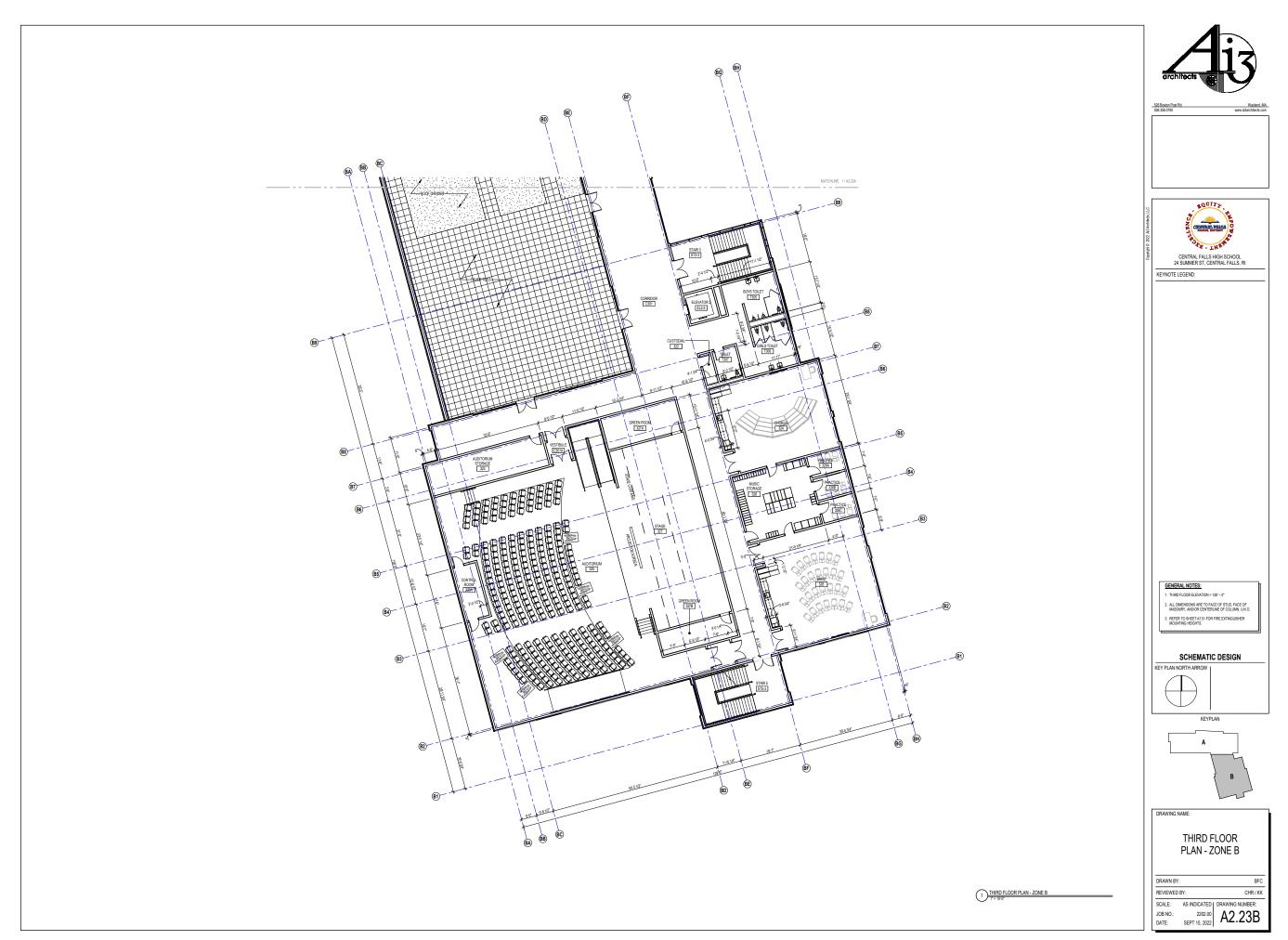


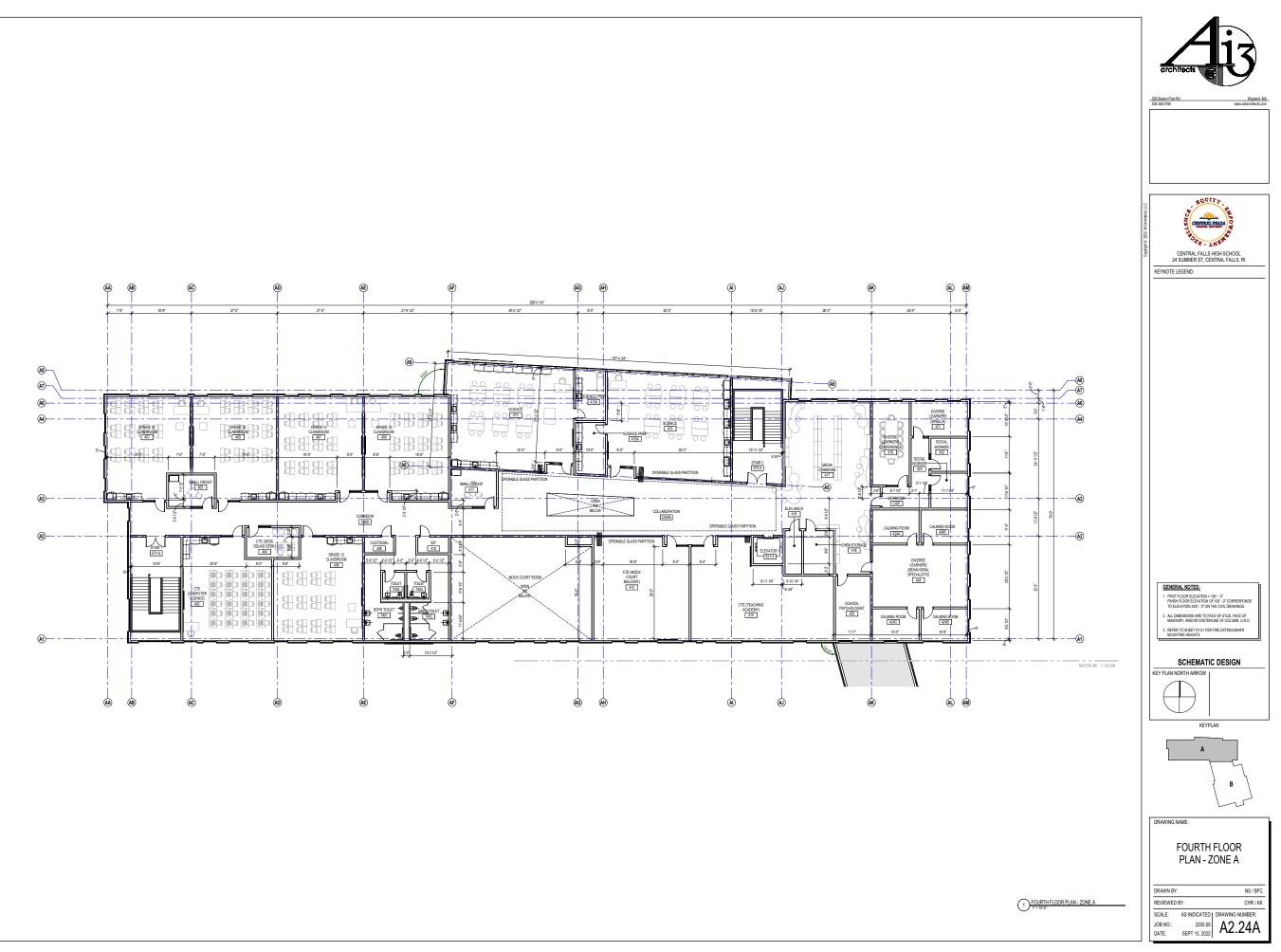


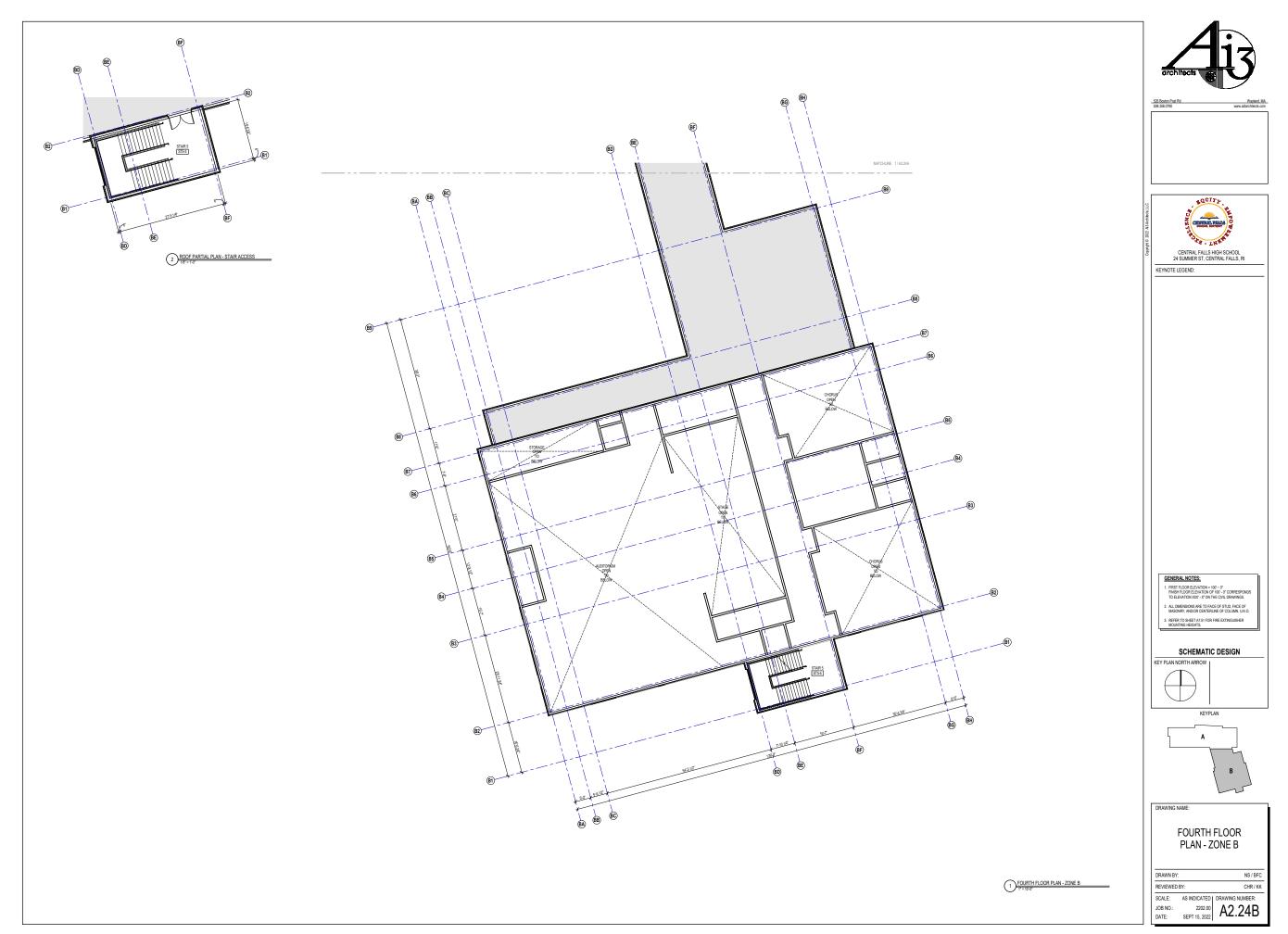


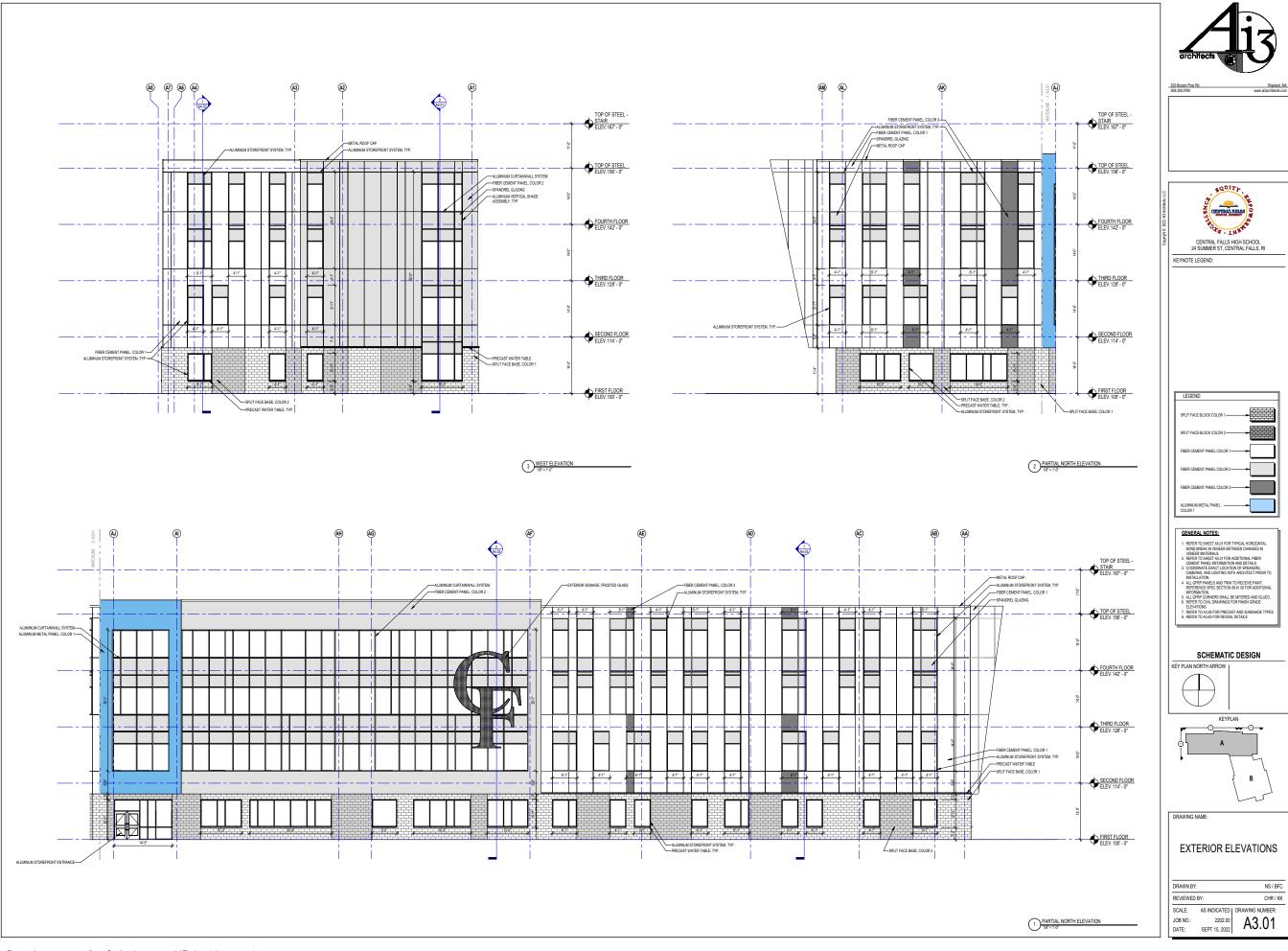


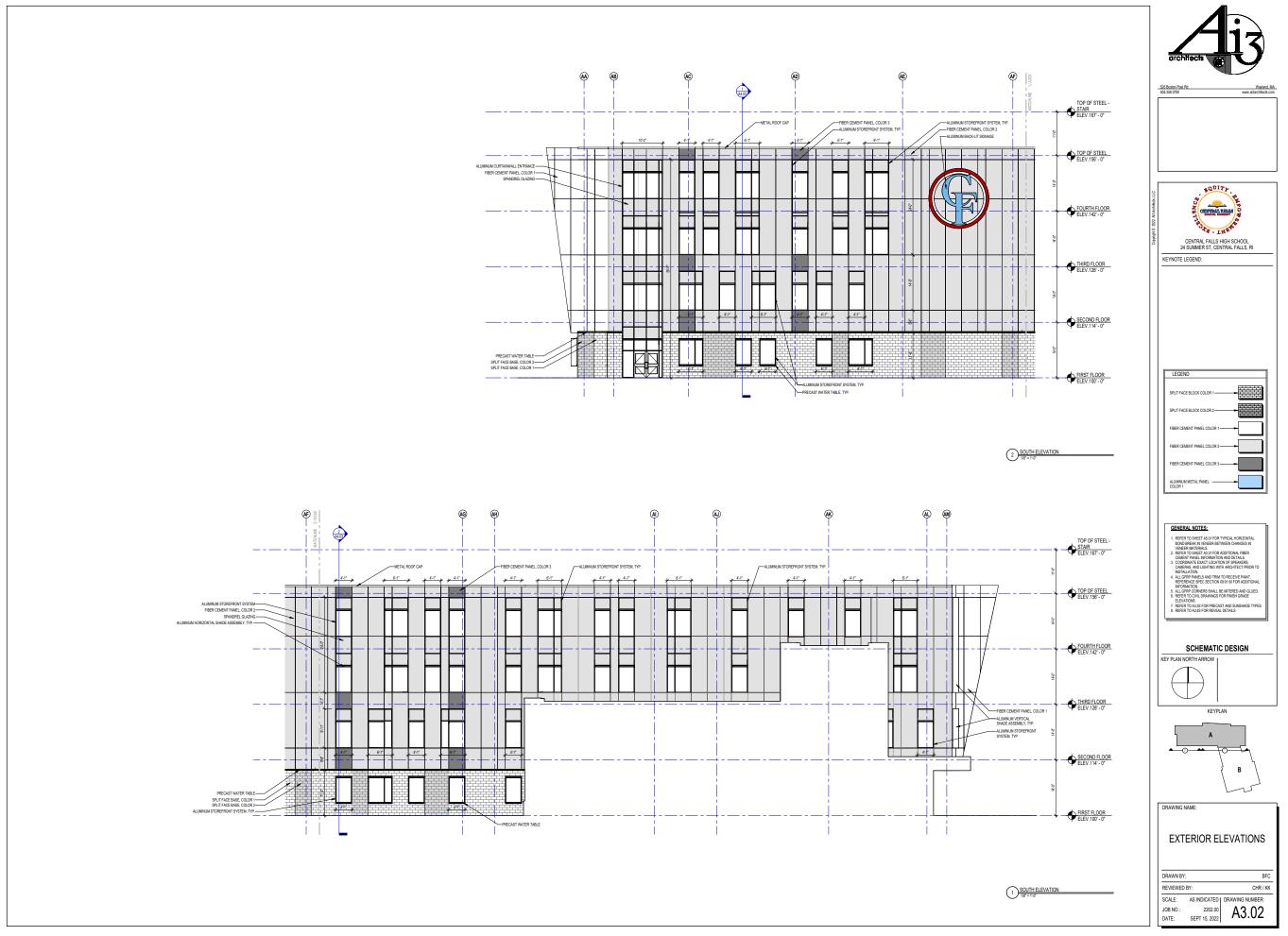


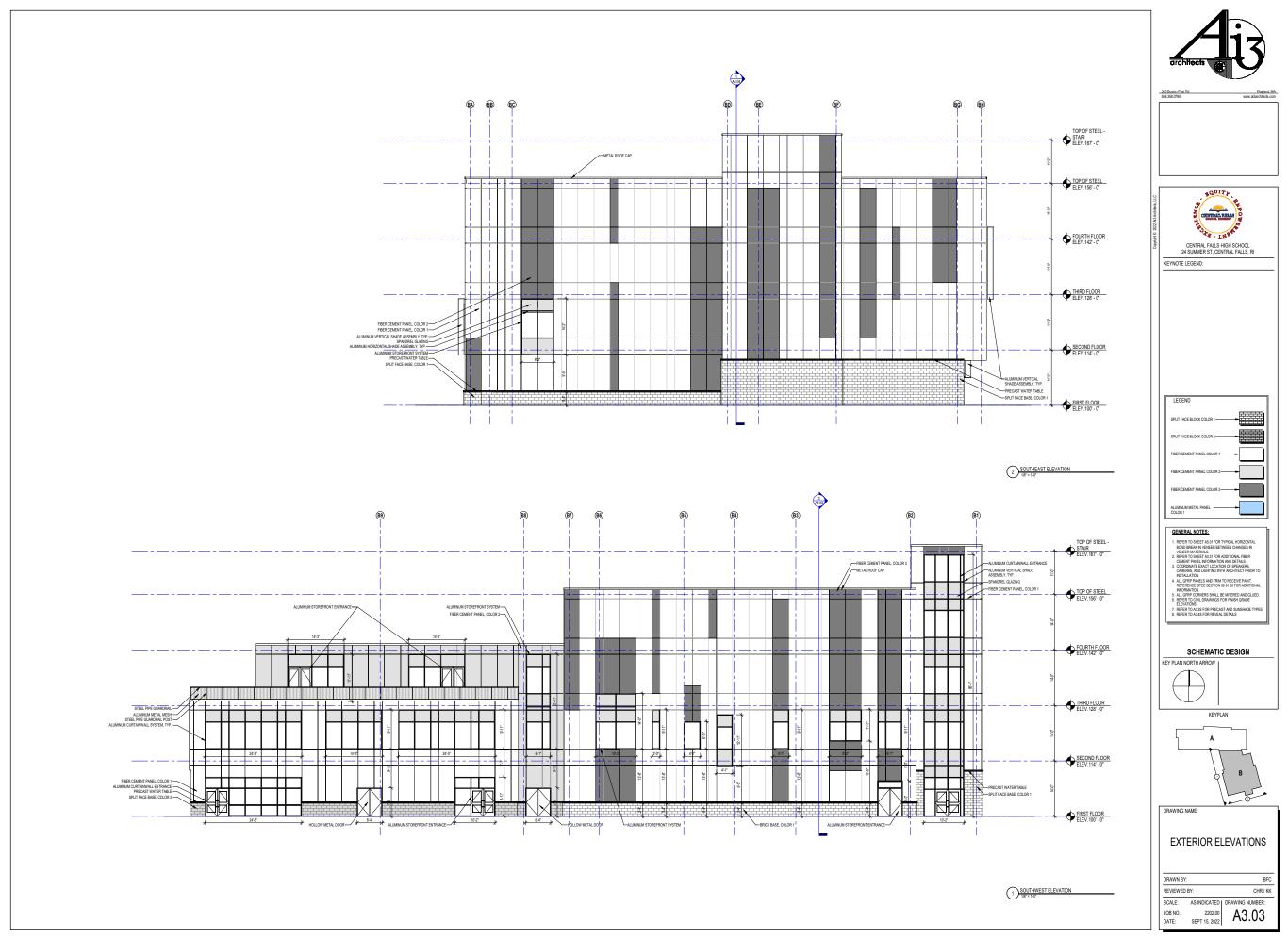




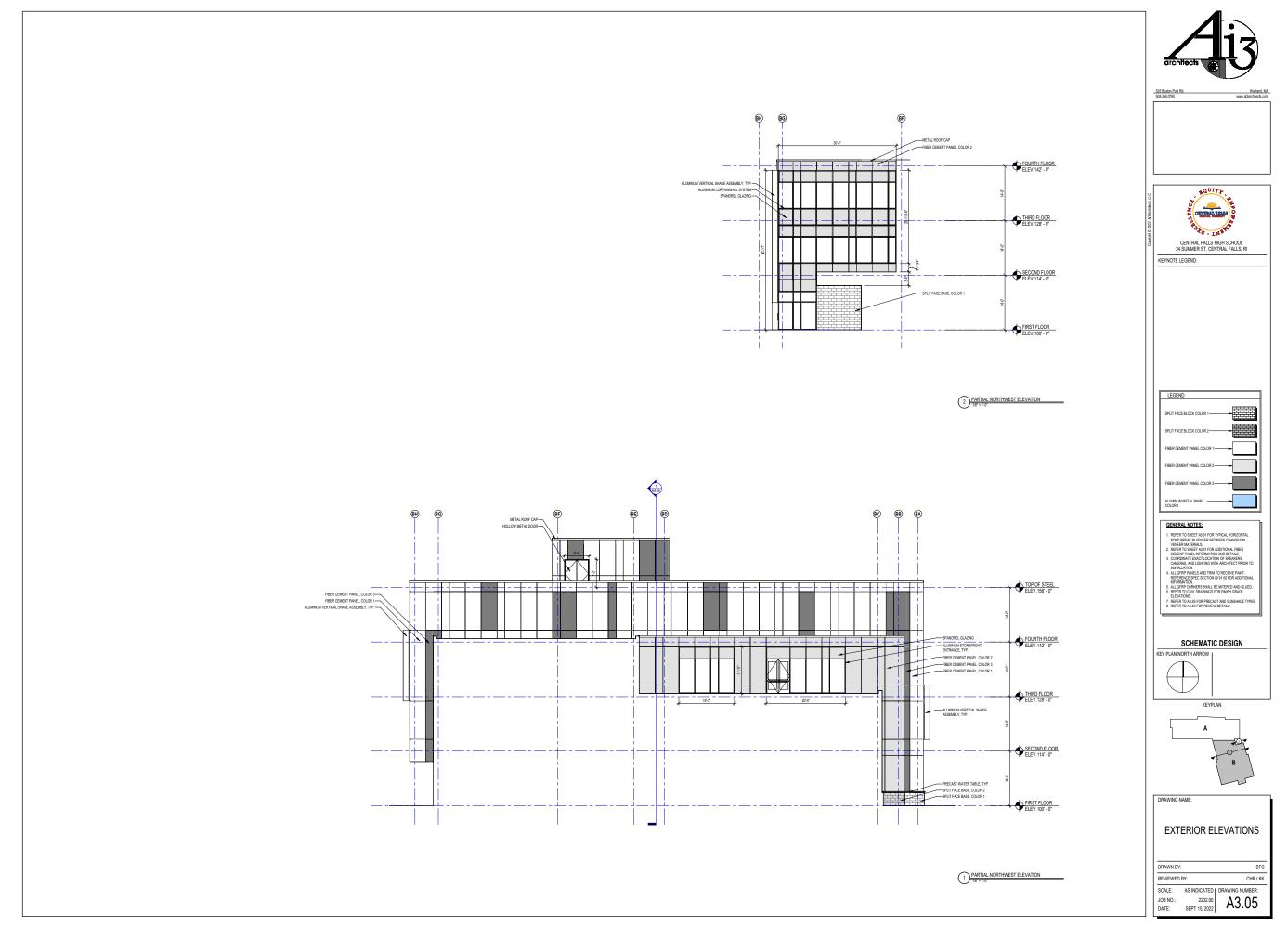


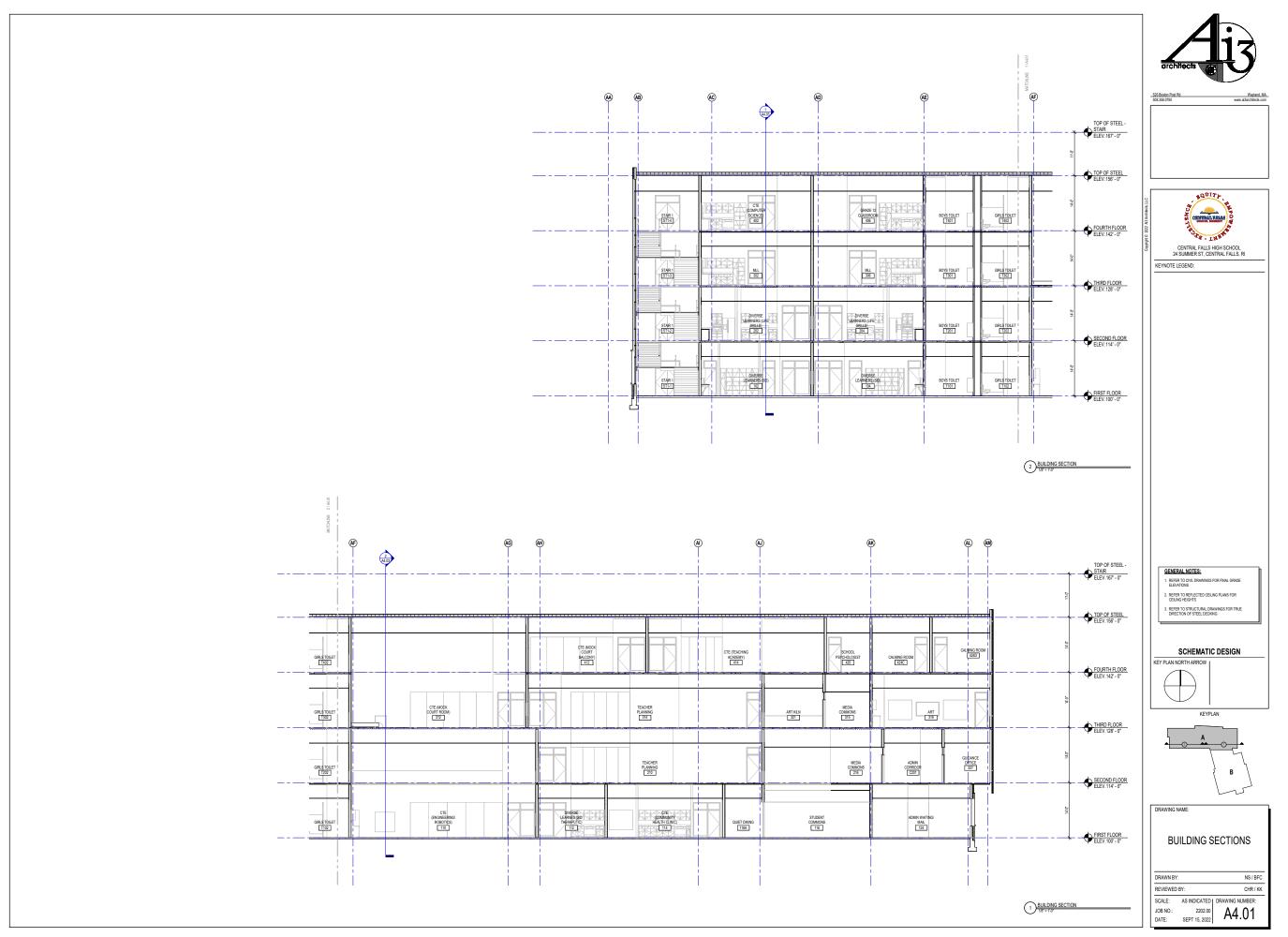


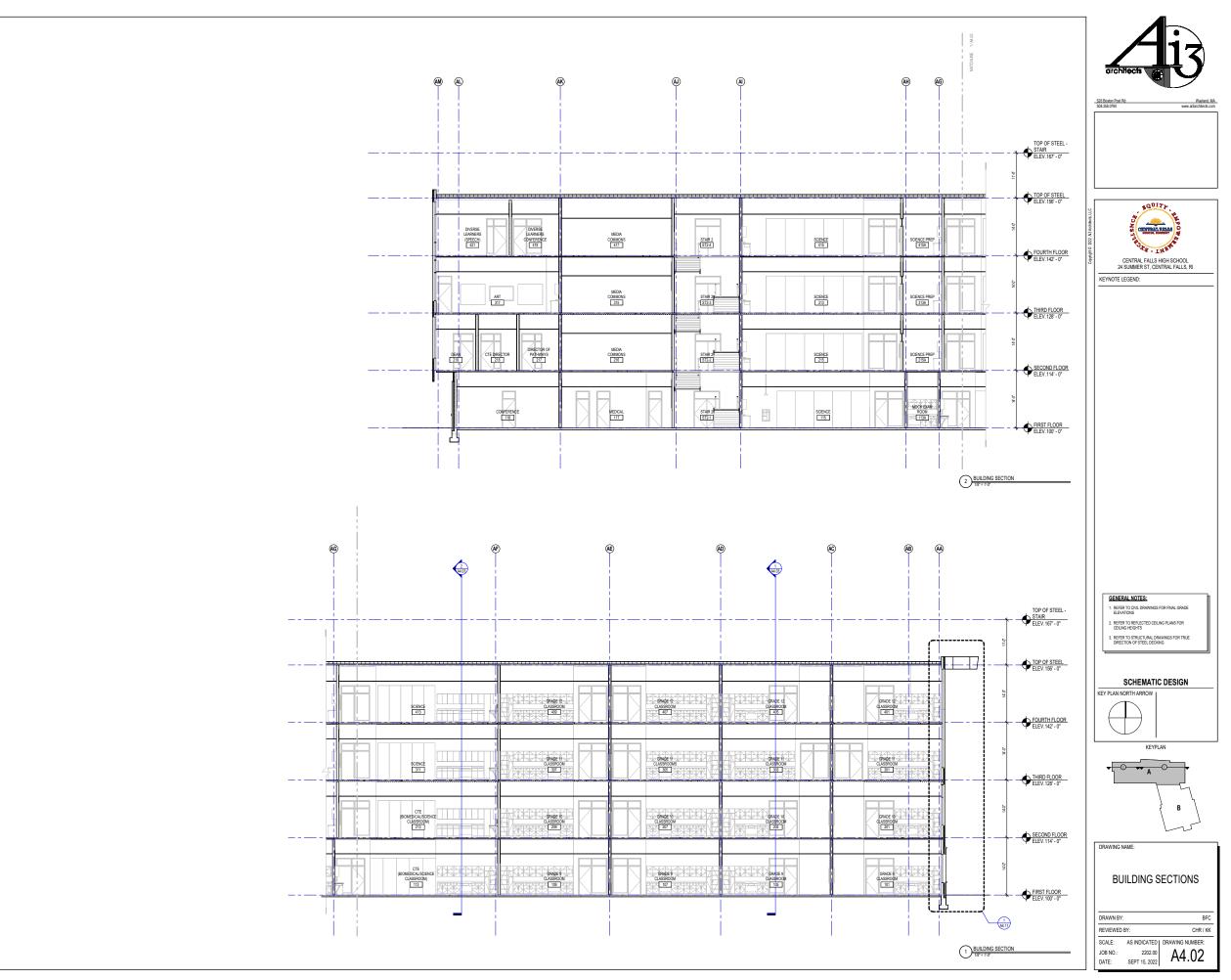


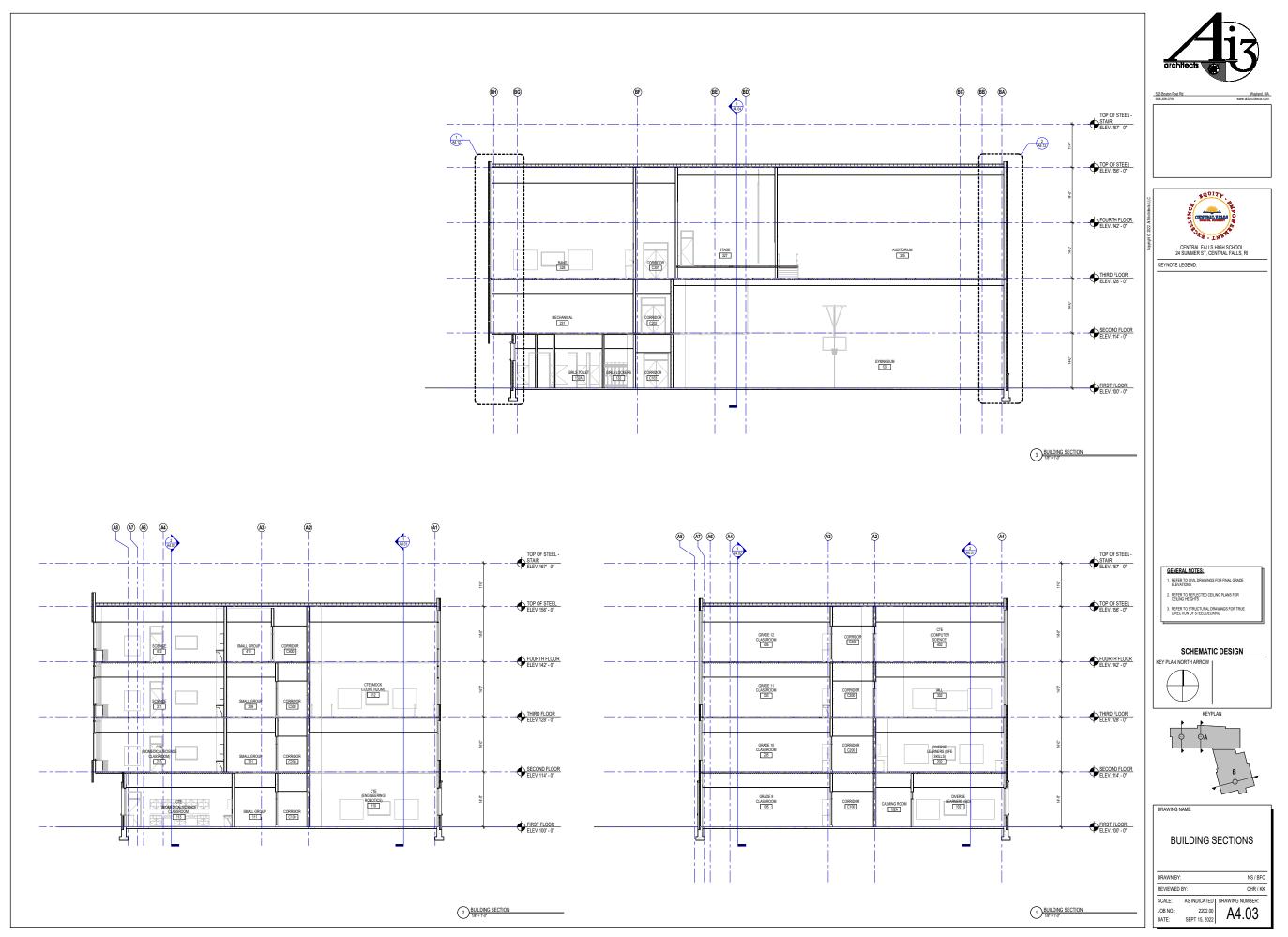


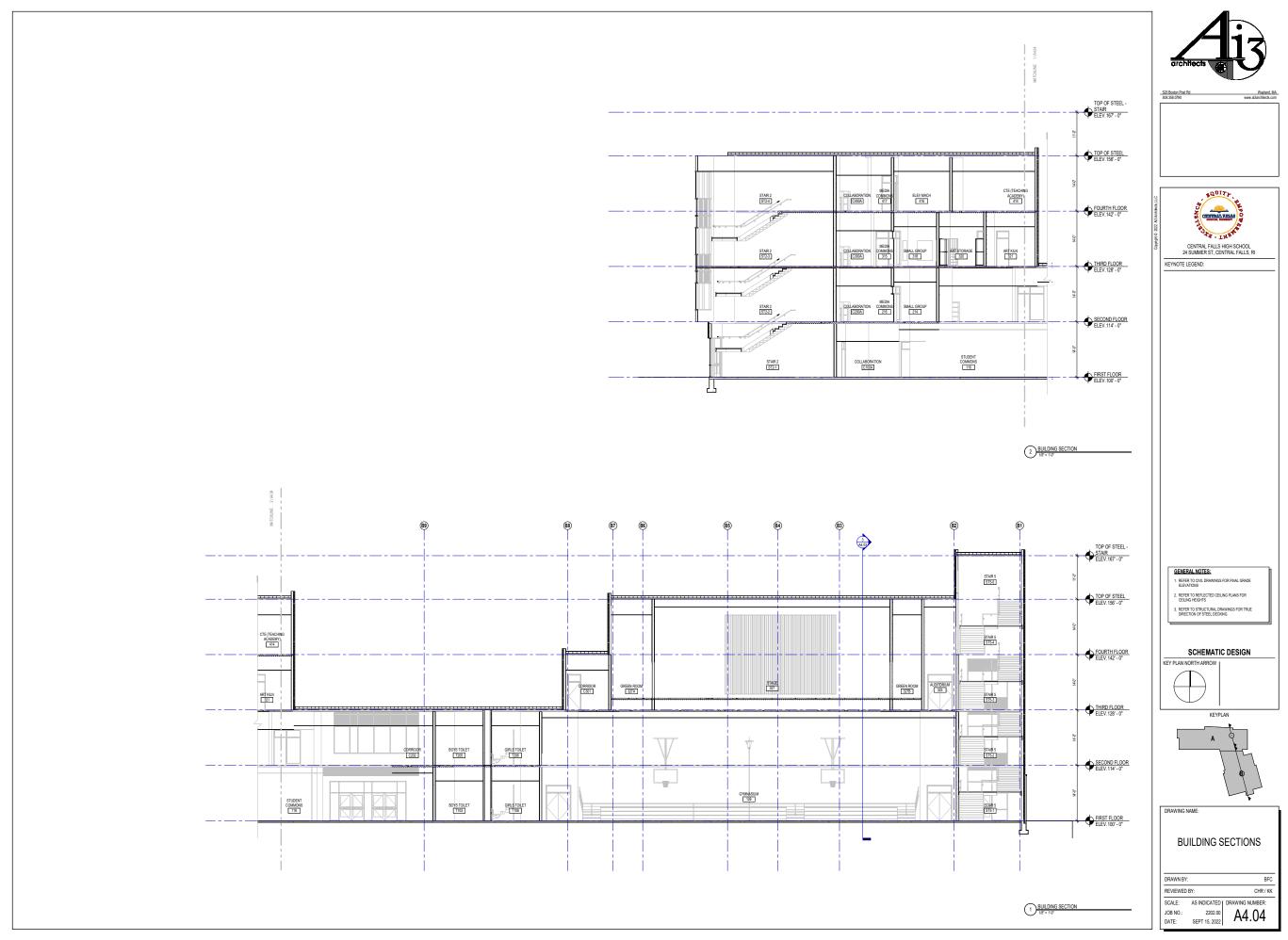


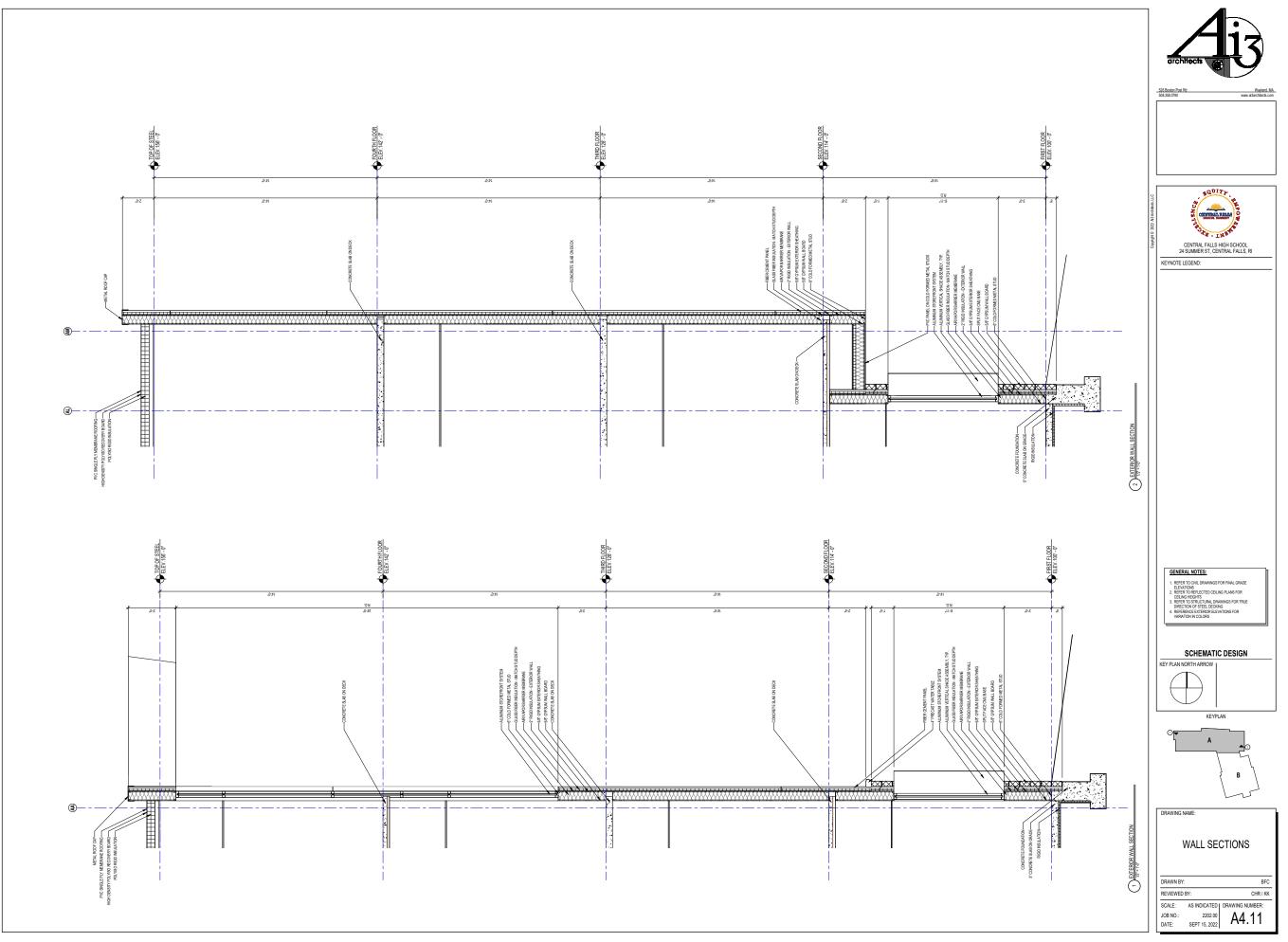


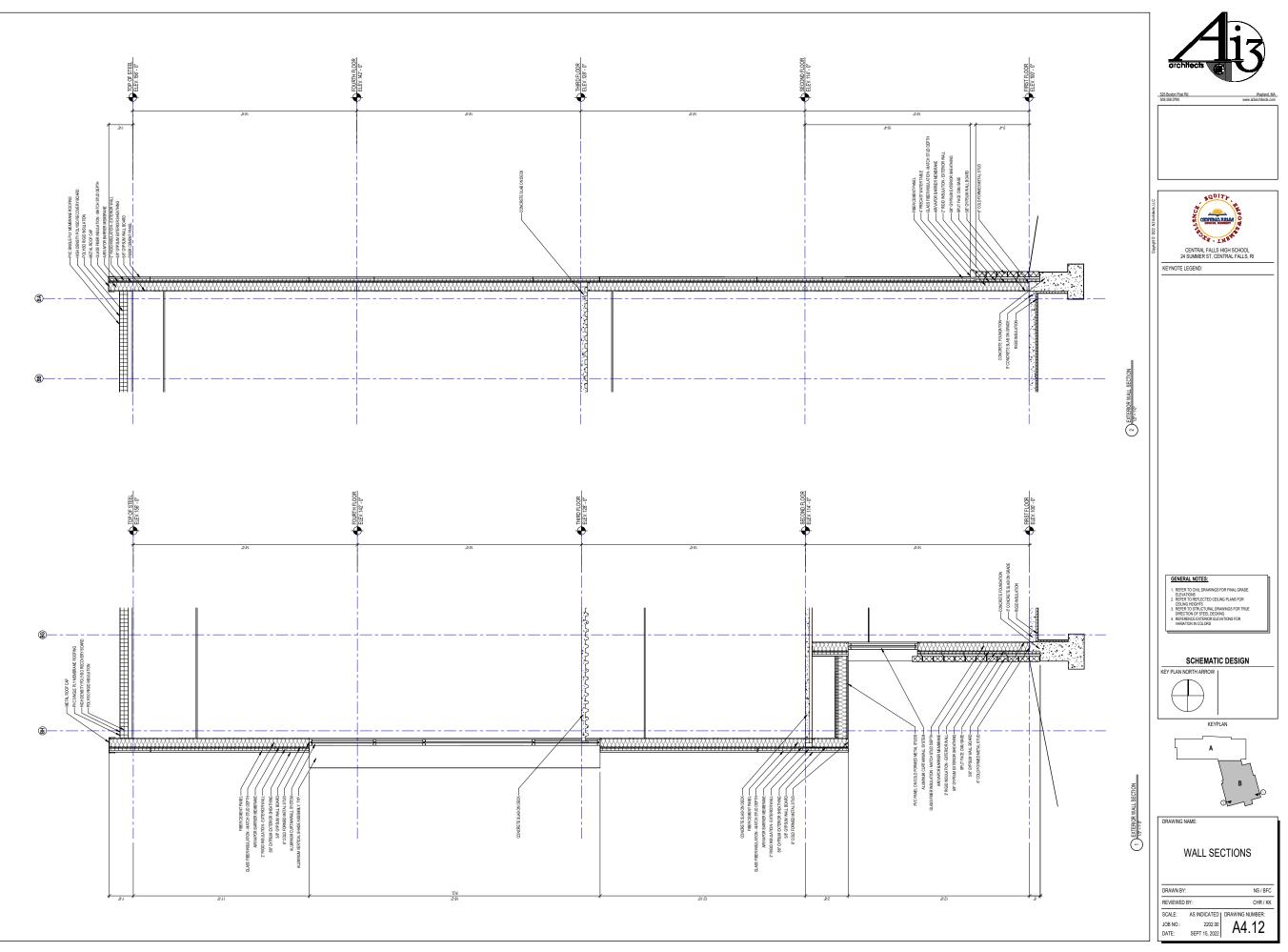












ROOM FINISH SCHEDULE

			_							
THIRD FLO	OOR		BASE		WALL N	IATERIAL				
ROOM #	ROOM NAME	FLOOR MATERIAL	MATERIAL	RIAL N E S W		CEILING	NOTES			
EL2-3	ELEVATOR 2	R	MFR	MFR	MFR	MFR	MFR	MFR		
ST1-3	STAIR 1	LIN/R	PT	PT/P	PT / P	PT / P	PT/P	ACT - 3		
ST2-3	STAIR 2	LIN/R	PT	PT/P	PT / P	PT / P	PT/P	ACT - 3		
ST3-3	STAIR 3	LIN/R	PT	PT/P	PT / P	PT / P	PT/P	ACT - 3		
ST5-3	STAIR 5	LIN/R	PT	PT/P	PT / P	PT / P	PT/P	ACT - 3		
T301	BOYS TOILET	PT	PT	PT / EP	PT / EP	PT / EP	PT / EP	EP		
T302	GIRLS TOILET	PT		PT/EP	PT / EP	PT / EP	PT / EP	EP		
T303	TOILET	PT	PT	PT/EP	PT / EP	PT / EP	PT / EP	EP		
T304	TOILET	PT	PT	PT/EP		PT / EP	PT/EP	EP		
	BOYS TOILET	PT		PT / EP		PT / EP	PT/EP	EP		
T306	GIRLS TOILET	PT		PT/EP		PT/EP	PT/EP	EP		
T307	TOILET	PT	PT	PT/EP	PT / EP	PT/EP	PT/EP	EP		

OURTH F	LOOR		BASE		WAL	MATERIAL			
ROOM #	ROOM NAME	FLOOR MATERIAL	MATERIAL	N	E	S	W	CEILING	NOTES
401	GRADE 12 CLASSROOM	LIN	RB	P	P	P	P	ACT-1	
401	CTE (COMPUTER SCIENCE)	LIN	RB	P	P	P	P	ACT-1	
403	SMALL GROUP	LIN	RB	P	P	P	P	ACT-1	
404	CTE (GEEK SQUAD DESK)	LIN	RB	P	P	P	P	ACT-1	
405	GRADE 12 CLASSROOM	LIN	RB	P	P	P	P	ACT-1	
406	GRADE 12 CLASSBOOM	LIN	RB	0	P	P	P	ACT-1	
400	GRADE 12 CLASSROOM	LIN	RB	0	P	P	P	ACT-1	
407	CUSTODIAL	CONC. PAINTED	RB	P	r D	P	P	EXP	
405	GRADE 12 CLASSROOM	UNC. PAINTED	RB	r D	r D	P	P	ACT-1	
409	IDF	SCRF	RB	r D	r D	P	P	ACT-3	
410	SMALL GROUP	LIN	RB	r	r	P	P	ACT-1	
411 412	SMALL GROUP CTE (MOCK COURT BALCONY)	LIN	RB	P D	r	P	P	ACT-1	
412	SCIENCE	LIN	RB	P	r	P	P	ACT-1	
	SCIENCE PREP		RB	P	r	P	P		
413A		LIN		r	٢	P	P	ACT-1	
414	CTE (TEACHING ACADEMY)	LIN	RB	٢	٢	P	P	ACT-1	
415	SCIENCE	LIN	RB	٢	P	P	۲	ACT - 1	
415A	SCIENCE PREP	LIN	RB	P	P	P .	Р	ACT - 1	
417	MEDIA COMMONS	LIN	PT	PT/P	PT/P	PT / P	PT/P	ACT - 3	
418	CHEM STORAGE	LIN	PT	PT/P	PT/P	PT / P	PT/P	ACT - 3	
419	DIVERSE LEARNERS CONFERENCE	CPT	RB	Р	P	Р	P	ACT - 3	
420	SCHOOL PSYCHOLOGIST	CPT	RB	Р	P	Р	P	ACT - 3	
421	DIVERSE LEARNERS (SPEECH)	CPT	RB	Р	P	Р	P	ACT - 3	
422	SOCIAL WORKER	CPT	RB	Р	P	Р	P	ACT - 3	
423	SOCIAL WORKER	CPT	RB	Р	P	Р	P	ACT - 3	
424	DIVERSE LEARNERS (BEHAVIORAL SPECIALISTS)	LIN	RB	Р	P	Р	P	ACT-1	
424A	CALMING ROOM	LIN	PT	PT/P	PT/P	PT / P	PT/P	ACT - 3	
424B	CALMING ROOM	LIN	PT	PT/P	PT/P	PT / P	PT/P	ACT - 3	
424C	CALMING ROOM	LIN	PT	PT/P	PT/P	PT / P	PT/P	ACT-3	
424D	CALMING ROOM	LIN	PT	PT/P	PT/P	PT / P	PT/P	ACT-3	
C400	CORRIDOR	LIN	PT	PT/P	PT/P	PT / P	PT/P	ACT-3	
C400A	COLLABORATION	LIN	PT	PT / P	PT/P	PT / P	PT / P	ACT - 3	
C401	CORRIDOR	LIN	PT	PT / P	PT/P	PT / P	PT/P	ACT - 3	
EL1-4	ELEVATOR 1	R	MFR	MFR	MFR	MFR	MFR	MFR	
ST1-4	STAIR 1	LIN / R	PT	PT / P	PT / P	PT / P	PT/P	ACT - 3	
ST2-4	STAIR 2	LIN / R	PT	PT / P	PT / P	PT / P	PT/P	ACT - 3	
ST5-4	STAIR 5	LIN / R	PT	PT / P	PT / P	PT / P	PT/P	ACT - 3	
T401	BOYS TOILET	PT	PT	PT / EP	PT / EP	PT / EP	PT / EP	EP	
T402	GIRLS TOILET	PT	PT	PT / EP	PT/EP	PT / EP	PT/EP	EP	
T403	TOILET	PT	PT	PT / EP	PT/EP	PT / EP	PT / EP	EP	
T404	TOILET	PT	PT	PT/FP	PT / FP	PT / EP	PT/EP	EP	

ROOM	FINISH SCHEDULE
	LINIOU OCUEDULE

ROOF FLC	DOR		BASE		WALL MATERIAL				
ROOM #	ROOM NAME	FLOOR MATERIAL	MATERIAL	N	E	s	W	CEILING	NOTES
			-	-					
ST5-5	STAIR 5	LIN / R	PT	PT / P	PT/P	PT/P	PT / P	ACT - 3	
ST5-5	STAIR 5	LIN/R	PT	PT/P	PT/P	PT / P	PT / P	ACT - 3	

215A SC 216 ME 217 Difk 218 CII 219 DE 220 CA 220 CA 221 DIFk 223 GU 224 SO 225 GU 226 GU 227 GU 228 FU 229 RE 229 NC 229 CN 229 CN 2200 NE 2200 NE 2200 NE 229 CN 2200 NE 2200 NE 2200 NE 230 EL 231 ME	ROOM NAME		BASE						
215A SC 216 ME 217 Difk 218 CII 219 DE 220 CA 220 CA 221 DIFk 223 GU 224 SO 225 GU 226 GU 227 GU 228 FU 229 RE 229 NC 229 CN 229 CN 2200 NE 2200 NE 2200 NE 229 CN 2200 NE 2200 NE 2200 NE 230 EL 231 ME	KUUH NAME	FLOOR MATERIAL	MATERIAL	N	WALL MATERIAL		W	CEILING	NOTES
215A SC 216 ME 217 Difk 218 CII 219 DE 220 CA 220 CA 221 DIFk 223 GU 224 SO 225 GU 226 GU 227 GU 228 FU 229 RE 229 NC 229 CN 229 CN 2200 NE 2200 NE 2200 NE 229 CN 2200 NE 2200 NE 2200 NE 230 EL 231 ME	RENCE	LIN	RB	P	P	P	P	ACT-1	
216 ME 217 DIF 218 CTI 219 DE 220 CA 221 SO 222 STI 223 GU 224 CO 225 GU 228 FIT 229 RE 229 RE 229 CA 229 NE 229 NE 229 NE 229<	VENCE PREP	LIN	RB	P	P	P	P	ACT-1	
217 DIF 218 CT 219 DE 220 CA 221 SO 222 SO 223 GU 224 SO 225 GU 226 GU 227 GU 228 GU 229 RE 229A RF 229A RF 229B OF 229C TR 229C TR 229C TL 230 EL4 231 ME	EDIA COMMONS	LIN	PT	PT/P	PT/P	PT/P	PT/P	ACT-3	
218 CTI 219 DE 220 CA 221 SO 222 SO 223 GU 224 CO 225 GU 224 CO 225 GU 228 GU 229 EG 229 RE 229 CO 229 CN 229 CO 229 NE 229 CN 229 CN 230 ELI 231 ME	RECTOR OF PATHWAYS	CPT	RB	P	P	P	P	ACT-3	
219 DE 220 CA 221 SO 222 ST 223 GU 224 CO 225 GU 226 GU 227 GU 228 FIT 228A OT 229A WC 229B OF 229C TR. 229B ON 229B ON 229B ON 229B ON 229B CO 229B ON 229B ON 229B CO 229B CO 229B CO 229B CO 230 ELE 231 ME	E DIRECTOR	CPT	RB	P	P	P	P	ACT - 3	
221 S0 222 ST 223 GU 224 C0 225 GU 225 GU 227 GU 228 FIT 228A OT 229 RE 229A WC 2298 OFI 2299 CTR 2299 NE 2290 NE 2290 NE 2290 NE 2290 NE		CPT	RB	P	P	P	P	ACT - 3	
222 ST0 223 GU 224 CO 225 GU 226 GU 227 GU 228 FIT 228 FIT 229 RE 229 RE 229 CT 229 RE 229C TR 229C NE 230 EL 231 ME	REER CENTER	CPT	RB	Р	P	P	P	ACT-3	
223 GU 224 CO 225 GU 225 GU 227 GU 228 FIT 228A OT. 229 RE 229A WC 229B OFI 229C TR. 229D NE 229D NE 229D NE 229D NE 229D NE	DCIAL WORKER	CPT	RB	Р	Р	P	P	ACT - 3	
224 CO 225 GU 226 GU 227 GU 228 FIT 228A OT 229 RE 229A WC 229B OF 229C TR 229D NE 229C TR 229D NE 229D NE 229D NE 229D NE	ORAGE	LIN	PT	PT/P	PT / P	PT / P	PT / P	ACT - 3	
225 GU 226 GU 227 GU 228 FIT 228A OT 229 RE 229A WC 229B OFI 229C TRJ 229C TRJ 230C	JIDANCE OFFICE	CPT	RB	Р	P	P	P	ACT - 3	
226 GU 227 GU 228 FIT 228A OTi 229 RE 229A WC 229B OFI 229C TRI 229C TRI 229C TRI 229D NE 230 ELE 231 ME	DNFERENCE	CPT	RB	Р	Р	P	P	ACT - 3	
227 GU 228 FIT 228A OT. 229 RE 229A WC 229B OF 229C TR. 229C TR. 229D NE 230 ELE 231 ME	JIDANCE OFFICE	CPT	RB	Р	Р	Р	Р	ACT - 3	
228 FIT 228A OT. 229 RE 229A WC 229B OF 229C TR. 229D NE 230 ELE 231 ME	JIDANCE OFFICE	CPT	RB	Р	P	P	Р	ACT - 3	
228A 0T, 229 RE 229A WC 229B OF 229C TR, 229D NE 230 ELB 231 ME	JIDANCE OFFICE	CPT	RB	Р	P	P	Р	ACT - 3	
229 RE 229A WC 229B OF 229C TR 229D NE 230 ELE 231 ME	TNESS CENTER APE	LIN	RB	Р	Р	P	P	ACT - 1	
229A WC 229B OF 229C TRJ 229D NE 230 ELE 231 ME	T/PT	LIN	RB	Р	Р	P	Р	ACT - 1	
229B OF 229C TR 229D NE 230 ELE 231 ME	CEI/ING	CONC. PAINTED	RB	Р	Р	P	Р	EXP	
229C TR 229D NE 230 ELE 231 ME	ORKSHOP	CONC. PAINTED	RB	Р	Р	P	Р	EXP	
229D NE 230 ELE 231 ME	FICE	CONC. PAINTED	RB	Р	P	P	P	EXP	
230 ELE 231 ME	IASH	CONC. PAINTED	RB	Р	Р	P	P	EXP	
231 ME	ETOWRK / TELECOM	SCRF	RB	Р	Р	P	P	ACT - 3	
	ECTRICAL	CONC. PAINTED	RB	Р	Р	P	Р	EXP	
	ECHANICAL	CONC. PAINTED	RB	Р	Р	P	Р	EXP	
	EW ROOM	LIN	RB	Р	Р	P	P	ACT - 1	
	ORRIDOR	LIN	PT	PT / P	PT / P	PT / P	PT / P	ACT - 3	
	DLLABORATION	LN	PT	PT/P	PT/P	PT/P	PT / P	ACT - 3	
	DMIN CORRIDOR	LN	PT	PT/P	PT/P	PT/P	PT / P	ACT - 3	
	ORRIDOR	LN	PT	PT/P	PT/P	PT/P	PT / P	ACT - 3	
	EVATOR 1	R	MFR	MFR	MFR	MFR	MFR	MFR	
	EVATOR 2	R	MFR	MFR	MFR	MFR	MFR	MFR	
	AR1 AR2	LIN/R	PT PT	PT/P PT/P	PT/P PT/P	PT/P PT/P	PT / P PT / P	ACT - 3	
	AR2 AR3	LIN/R LIN/R	PT	PT/P PT/P	PT/P	PT/P	PT/P	ACT-3 ACT-3	
	AR3 AR4	LIN/R	PT	PT/P PT/P	PT/P	PT/P	PT/P PT/P	ACT - 3	
	AR4 AR5	LIN/R LIN/R	PT	PT/P PT/P	PT/P	PT/P	PT/P PT/P	ACT - 3	
	AIR5 DYS TOILET	PT	PT	PT/P PT/EP	PT/P PT/FP	PT/P PT/EP	PT/P PT/EP	ACI - 3 FP	
	RLS TOILET	PT	PT	PT/EP	PT/EP	PT/EP	PT/EP	EP	
	NES TOLET	PT	PT	PT/EP	PT/EP	PT/EP	PT / EP	EP	
	NLET DI FT	PT	PT	PT/EP	PT/EP	PT/EP	PT/EP	EP	
	VYS TOILET	PT	PT	PT/EP	PT/EP	PT/EP	PT / FP	FP	
	RLS TOILET	PT	PT	PT/EP	PT/EP	PT/EP	PT/EP	EP	
	NES TOLET	PT	PT	PT/EP	PT/EP	PT/EP	PT / EP	EP	

THIRD FLOOR			BASE		WALL	MATERIAL			
ROOM #	ROOM NAME	FLOOR MATERIAL	MATERIAL	N	E	S	W	CEILING	NOTES
					la		le.		
301	GRADE 11 CLASSROOM	LIN	RB	P	P	P	P	ACT - 1	
302	MLL	LIN	RB	٢	P	P	P	ACT-1	
303 304	GRADE 11 CLASSROOM SMALL GROUP	LIN	RB RB	P	P	P	P	ACT - 1 ACT - 1	
304	GRADE 11 CLASSROOMS	LIN	RB	٢	P	P	P	ACT-1 ACT-1	
				P	P	٢	P		
306	MLL CONTRACTOR	LIN	RB	P	P	P	P	ACT - 1	
307	GRADE 11 CLASSROOM	LIN	RB	P	P	P	P	ACT - 1 FXP	
308	CUSTODIAL	CONC. PAINTED	RB	P	P	P			
309	SMALL GROUP	LIN	RB	P	P	P	P	ACT - 1	
310	IDF	SCRF	RB	P	P	P	P	ACT - 3	
311	SCIENCE	LIN	RB	P		P		ACT - 1	
311A	SCIENCE PREP	LIN	RB	P	P	P	P	ACT - 1	
312	CTE (MOCK COURT ROOM)	LIN	RB	P	P	P	P	ACT - 1	
313	SCIENCE	LIN	RB	P	P	P	P	ACT - 1	
313A	SCIENCE PREP	LIN	RB	P	P	P	P	ACT - 1	
314	TEACHER PLANNING	LIN	RB	P	P	P	P	ACT - 1	
314A	MOTHERS ROOM	LIN	RB	P	Р	P	P	ACT - 1	
314B	TOLET	PT	PT	PT/EP	PT / EP	PT/EP	PT / EP	EP	
315	MEDIA COMMONS	LIN	PT	PT/P	PT / P	PT/P	PT / P	ACT - 3	
316	CONFERENCE	LIN	RB	Р	P	P	P	ACT - 1	
317	ART	LIN	RB	P	Р	P	P	ACT - 1	
318	SMALL GROUP	LIN	RB	P	Р	P	P	ACT - 1	
319	ART	LIN	RB	P	Р	P	P	ACT - 1	
320	ART STORAGE	LIN	RB	Р	Ρ	P	Р	ACT - 1	
321	ART KILN	LIN	RB	Р	Ρ	P	P	ACT - 1	
322	CUSTODIAL	CONC. PAINTED	RB	Р	P	P	P	EXP	
323	AUDITORIUM STORAGE	LIN	PT	PT/P	PT / P	PT / P	PT/P	ACT - 3	
324	CHORUS	LIN	RB	Ρ	P	P	P	ACT - 1	
325	AUDITORIUM	CB / CONC. PAINTED	RB	Ρ	P	P	P	ACT-2	
325A	CONTROL ROOM	CB / CONC. PAINTED	RB	Ρ	P	P	P	ACT-2	
326	MUSIC STORAGE	LIN	RB	Ρ	P	P	P	ACT - 1	
326A	PRACTICE	LIN	RB	Ρ	P	P	P	ACT - 1	
326B	PRACTICE	LIN	RB	Р	P	P	Р	ACT - 1	
326C	PRACTICE	LIN	RB	Р	P	P	Р	ACT - 1	
327	STAGE	LAM	LAMB	P	P	P	P	EXP	
327A	GREEN ROOM	LAM	LAMB	Р	P	P	P	EXP	
327B	GREEN ROOM	LAM	LAMB	Р	Р	P	P	EXP	
328	BAND	LIN	RB	Р	Р	P	P	ACT - 1	
C300	CORRIDOR	LIN	PT	PT/P	PT / P	PT/P	PT/P	ACT - 3	
C300A	COLLABORATION	LIN	PT	PT/P	PT / P	PT/P	PT/P	ACT - 3	
C301	CORRIDOR	LIN	PT	PT/P	PT / P	PT/P	PT/P	ACT - 3	
C301A	VESTIBULE	LIN	PT	PT/P	PT / P	PT/P	PT/P	ACT - 3	
C301B	VESTIBULE	LIN	PT	PT/P	PT/P	PT/P	PT/P	ACT - 3	

IRST FI	OOR	
ROOM #	ROOM NAME	FLOOR MAT
101	GRADE 9 CLASSROOM	LIN
102	DIVERSE LEARNERS (SID)	LIN
102A	CALMING ROOM	LIN
102B 103	TOILET SMALL GROUP	PT
103	DIVERSE LEARNERS (SID)	LIN
104A	CALMING ROOM	LIN
104B	TOILET	PT
105	GRADE 9 CLASSROOM	LIN
106	CUSTODIAL GRADE 9 CLASSROOM	CONC. PAIN
108	IDF	SCRF
109	GRADE 9 CLASSROOM	LIN
110	CTE (ENGINEERING/ ROBOTICS)	LIN
111	SMALL GROUP	LIN
112	DIVERSE LEARNES (SID THERAPUTIC)	LIN
113A	CTE (BIOMEDICAL/SCIENCE CLASSROOM) MOCK EXAM ROOM	LIN
114	CTE (COMMUNITY HEALTH CLINIC)	LIN
115	SCIENCE	LIN
115A	SCIENCE PREP	LIN
116 116A	STUDENT COMMONS QUIET DINING	LIN
116A 116B	QUEI DINING KITCHEN	OT
117	MEDICAL	LIN
117A	NURSE OFFICE	LIN
117B	TOILET	PT
118	CONFERENCE	CPT
119	PRINCIPALS SECRETARY PRINCIPALS OFFICE	CPT
120	RECORDS	LIN
122	ASSISTANT PRINCIPAL	CPT
123	DUPLICATING	LIN
124	ADMIN WAITING/ MAIL	LIN
125 126	DELIVERIES GYMNASIUM	CONC. PAIN WAF
120	BOYSLOCKERS	PT
127A	BOYS TOLET	PT
128	HEALTH INSTRUCTOR	LIN
128A	TOLET	PT
129 130	ATHLETIC DIRECTOR GENDER NEUTRAL LOCKERS	LIN
130	GENDER NEUTRAL LUCKERS GYM STORAGE	CONC. PAIN
132	GIRLS LOCKERS	PT
132A	GIRLS TOILET	PT
170	ELEV MACH	CONC. PAIN
C100	CORRIDOR COLLABORATION	LIN
C100A	CORRIDOR	LIN
C102	ADMIN CORRIDOR	LIN
C102A	VESTIBULE	LIN / MA
C103	CORRIDOR	LIN
EL1-1 EL2-1	ELEVATOR 1 ELEVATOR 2	R
ST1-1	STAR 1	LIN/R
ST2-1	STAR2	LIN/R
ST3-1	STAR 3	LIN/R
ST4-1	STAR 4	LIN / R
ST5-1	STAR 5	LIN/R
T101 T102	BOYS TOILET GIRLS TOILET	PT
T102	TOLET	PT
T103	TOLET	PT
T105	BOYS TOILET	PT
T106	GIRLS TOILET	PT
T107	TOLET	PT
T108	TOILET	PT

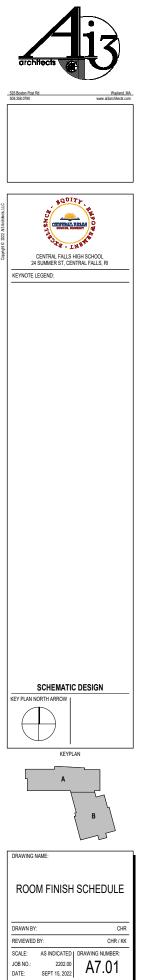
ST FL			D.0		WA? ·	MATERIAL	Т		
31 FL	ROOM NAME	FLOOR MATERIAL	BASE	N	E	S	W	CEILING	NOTES
01 02	GRADE 9 CLASSROOM DIVERSE LEARNERS (SID)	LN	RB	P	P P	P	P	ACT - 1 ACT - 1	
2A 2B 13	CALMING ROOM TOILET SMALL GROUP	LIN PT LIN	RB PT RB	P PT/EP	P PT/EP	P PT/EP	P PT/EP	ACT - 1 EP ACT - 1	
4 1A	DIVERSE LEARNERS (SID) CALMING ROOM	LIN	RB	P P	P	P	P P	ACT - 1 ACT - 1	
48 15	TOLET GRADE 9 CLASSROOM	PT	PT	PT / EP	PT / EP	PT / EP	PT/EP	EP ACT-1	
06 07	CUSTODIAL GRADE 9 CLASSROOM	CONC. PAINTED	RB	P P	P	P	P	EXP ACT - 1	
18 19	IDF GRADE 9 CLASSROOM	SCRF	RB RB	P P	P P	P	P P	ACT - 3 ACT - 1	
10	CTE (ENGINEERING/ ROBOTICS) SMALL GROUP	LN	RB RB	P	P P	P	P	ACT - 1 ACT - 1	
12	DIVERSE LEARNES (SID THERAPUTIC) CTE (BIOMEDICAL/SCIENCE CLASSROOM)	LIN	RB RB	P P	P P	P	P	ACT - 1 ACT - 1	
3A 14	MOCK EXAM ROOM CTE (COMMUNITY HEALTH CLINIC)	LIN	RB RB	P P	P P	P	P	ACT - 1 ACT - 1	
15 5A	SCIENCE SCIENCE PREP	LIN	RB RB	P P	P P	P P	P P	ACT - 1 ACT - 1	
16 6A	STUDENT COMMONS QUET DINING	LN	PT PT	PT/P PT/P	PT/P PT/P	PT/P PT/P	PT/P PT/P	ACT - 3 ACT - 3	
18 7	KITCHEN MEDICAL	QT LIN	QT RB	QT / P P	QT/P P	QT/P P	QT / P P	ACT - 3 ACT - 3	
'A 'B	NURSE OFFICE TOILET	LIN PT	RB PT	P PT/EP	P PT/EP	P PT / EP	P PT/EP	ACT - 3 EP	
3	CONFERENCE PRINCIPALS SECRETARY	CPT CPT	RB RB	P P	P P	P P	р р	ACT - 3 ACT - 3	
0	PRINCIPALS OFFICE RECORDS	CPT LIN	RB PT	P PT/P	P PT/P	P PT/P	P PT/P	ACT - 3 ACT - 3	
2 3	ASSISTANT PRINCIPAL DUPLICATING	CPT LIN	RB PT	P PT/P	P PT/P	P PT/P	P PT/P	ACT-3 ACT-3	
4 5	ADMIN WAITING/ MAIL DELIVERIES	LIN CONC. PAINTED	PT	PT/P P	PT/P P	PT/P P	PT/P P	ACT-3 EXP	
6 7	GYMNASIUM BOYS LOCKERS	WAF PT	WAB PT	P PT/EP	P PT/EP	P PT/EP	P PT/EP	EXP	
7A 18	BOYS TOILET HEALTH INSTRUCTOR	PT LIN	RB	PT / EP P	PT / EP P	PT/EP P	PT/EP P	EP ACT-1	
8A 29	TOLET ATHLETIC DIRECTOR	PT	RB	PT / EP P	PT / EP P	PT/EP P	PT/EP P	EP ACT-1	
90 81	GENDER NEUTRAL LOCKERS GYM STORAGE	PT CONC. PAINTED	PT RB	PT / EP P	PT / EP P	PT/EP P	PT/EP P	EP EXP	
32 2A	GIRLS LOCKERS GIRLS TOILET	PT PT	PT PT	PT / EP PT / EP	PT/EP PT/EP	PT/EP PT/EP	PT/EP PT/EP	EP EP	
70 100	ELEV MACH CORRIDOR	CONC. PAINTED LIN	RB PT	P PT/P	P PT/P	P PT/P	P PT/P	EXP ACT-3	
00A 01	COLLABORATION CORRIDOR	LIN	PT PT	PT/P PT/P	PT/P PT/P	PT/P PT/P	PT/P PT/P	ACT-3 ACT-3	
02 12A	ADMIN CORRIDOR VESTIBULE	LIN LIN/MAT	PT PT	PT/P PT/P	PT/P PT/P	PT/P PT/P	PT/P PT/P	ACT-3 ACT-3	
03 1-1	CORRIDOR ELEVATOR 1	LIN	PT MFR	PT / P MFR	PT / P MFR	PT / P MFR	PT/P MFR	ACT - 3 MFR	
2-1 1-1	ELEVATOR 2 STAIR 1	R LIN/R	MFR PT	MFR PT / P	MFR PT / P	MFR PT/P	MFR PT / P	MFR ACT - 3	
2-1 3-1	STAR 2 STAR 3	LIN/R LIN/R	PT PT	PT/P PT/P	PT/P PT/P	PT/P PT/P	PT/P PT/P	ACT - 3 ACT - 3	
4-1 5-1	STAIR 4 STAIR 5	LIN/R LIN/R	PT PT	PT/P PT/P	PT/P PT/P	PT/P PT/P	PT/P PT/P	ACT - 3 ACT - 3	
01 02	BOYS TOILET GIRLS TOILET	PT PT	PT PT	PT / EP PT / EP	PT/EP PT/EP	PT/EP PT/EP	PT/EP PT/EP	EP	
03 04	TOLET	PT PT	PT PT	PT/EP PT/EP	PT/EP PT/EP	PT / EP PT / EP	PT/EP PT/EP	EP	
05 06	BOYS TOILET GIRLS TOILET	PT PT	PT PT	PT/EP PT/EP	PT/EP PT/EP	PT / EP PT / EP	PT/EP PT/EP	EP	
07 08	TOLET TOLET	PT PT	PT PT	PT/EP PT/EP	PT/EP PT/EP	PT / EP PT / EP	PT/EP PT/EP	EP	
DM(FINISH SCHEDULE								
COND	FINISH SCHEDULE	FLOOR MATERIAL	BASE	N	WALL	MATERIAL	w	CEILING	NOTES
DND M#	FLOOR ROOM NAME NEW ROOM GRADE 10 CLASSROOM	LIN	RB RB	N P	WALL E P	MATERIAL S P P	P P	ACT - 1 ACT - 1	NOTES
OND 14 # 38 11 12 2A	FLOOR ROOM NAME NEW ROOM GRADE 10 CLASSROOM DWERSE LEARNERS (LIFE SKILS) TOLET	LIN LIN LIN PT	RB RB RB PT	P P P PT/EP	P	P P P PT/EP	P P P PT/EP	ACT-1 ACT-1 ACT-1 EP	NOTES
DND M# 88 11 22 24 3 4	FLOOR ROOM NAME NEW ROOM ROOM ROOM ROOM ROOM ROOM ROOM ROOM	LIN LIN PT LIN LIN	MATERIAL RB RB RB PT RB RB	P P PT/EP P P	P P PT/EP P	P P P P P P P P P P P P P P P	P P PT/EP P	ACT - 1 ACT - 1 ACT - 1 EP ACT - 1 ACT - 1	NOTES
DND M# 38 11 22 24 3 4 4 5	FLOOR ROOM NAME NEW ROOM GRAVE TO LASSROOM ONERSE LEWNERS (LFE SKLLS) TOLET SKALL GROUP DIVERSE LEWNERS (LFE SKLLS) TOLET TOLET GRAVET TO LASSROOM	LIN LIN PT LIN PT LIN	RB RB RB PT RB RB PT RB RB	P P P	P P P	р Р Р	P P P	ACT - 1 ACT - 1 ACT - 1 EP ACT - 1 ACT - 1 EP ACT - 1	NOTES
DND M# 38 1 2 2A 3 4 4 1A 5 6 6 7	FLOOR ROOM NAME NEW ROOM GRAVE TO LASSROOM ONVERSE LEAVERS LIFE SKLLS) TOLET SKALL GROUP DIVERSE LEAVERS LIFE SKLLS) TOLET GRAVET TO LASSROOM CLSTOOML GRAVET TO LASSROOM	LIN LIN UN UN PT LIN CONC. PAINTED LIN	MATERIAL RB RB PT RB PT RB PT RB RB RB RB RB	P P PT/EP P P	P P PT/EP P	P P P P P P P P P P P P P P P	P P PT/EP P	ACT-1 ACT-1 EP ACT-1 ACT-1 EP ACT-1 EP ACT-1 EXP	NOTES
OND 38 38 11 12 24 13 14 15 16 17 18 19	FLOOR ROW HAVE ROW HAVE ROW HOM GAVE IL (LASSROOM DARSE (LANNERS LPF SALLS) TOLET OVERSE (LANNERS LPF SALLS) TOLET OVERSE (LANNERS (LPF SALLS) TOLET TOL	LIN LIN LIN LIN LIN LIN CONC. PAINTED LIN SCRF LIN	MATERIAL RB RB PT RB PT RB PT RB RB RB RB RB RB	P P P PT/EP P PT/EP P P P P P P P	Р Р Р РТ/ЕР Р Р Р Р Р Р Р Р Р Р	P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P	Р Р Р Р Р Р Р Р Р Р Р Р Р Р	ACT-1 ACT-1 EP ACT-1 EP ACT-1 EXP ACT-1 EXP ACT-1 ACT-3 ACT-1	NOTES
OND DM # 338 311 322 224 333 344 44A 355 366 377 388 399 100 004	FLOOR ROOM NAME ROOM NAME ROOM NAME ROOM PACE ROOM PACE ROOM ROMERS LEAVENES (LF SALLS) TOLET GRACE TO LASSROOM CONTROL ROMERS LEAVENES ROMERS (LASSROOM CONTROL ROMERS LASSROOM TEACHER PANNING MONTRES ROOM	LIN LIN PT LIN LIN PT LIN CONC. PANTED LIN SCRF LIN LIN	MATERIAL RB RB RB PT RB RB RB RB RB RB RB RB RB RB	P P P P P P P P P P P P P P P P P P P	Е Р Р Р Р Р Р Р Р Р Р Р Р Р	\$ P P P P P P P P P P P P P P P P P P P	P P P P P P P P P P P P P P P P P P P	ACT-1 ACT-1 EP ACT-1 EP ACT-1 EP ACT-1 EXP ACT-1 ACT-3 ACT-3 ACT-3 ACT-1	NOTES
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DND M # 88 11 22 24 33 44 14 55 66 77 88 99 00 04 15 12 23 34	FLOOR ROOM NAME NEW ROOM NAME NEW ROOM SAMOUND NEWSELSAMINERS (JFE SKILLS) TOLET SMALL GROUP ELSAMINERS (JFE SKILLS) TOLET OLSBROOM SAMOUND OKTORNA GROUP CONSTROMA GROUP GROUP CONSTROMA GROUP GROU	LN LN PT LN LN FT LN CORC.PANTED LN LN LN LN LN FT LN FT	MATERIAL RB RB RB PT RB RB RB RB RB RB RB RB RB RB RB RB RB	P P P P P P P P P P P P P P P P P P P	Е Р Р Р Р Р Р Р Р Р Р Р Р Р	\$ P P P P P P P P P P P P P P P P P P P	P P P P P P P P P P P P P P P P P P P	ACT-1 ACT-1 ACT-1 EP ACT-1 ACT-1 EP ACT-1 EV ACT-1 ACT-3 ACT-3 ACT-1 ECT-1 ACT-3 ACT-1 ACT-3	NOTES
OND M # 38 11 12 22A 13 14 15 16 16 16 16 16 16 10 10 11 12 13 34 14 14 15 16 16 16 16 16 16 16 16 16 16	FLOOR ROOM NAME ROOM NAME ROOM NAME ROOM TABLE ROOM TO COMPARE LANSING TO COMPARE ROOM TO LET TO LET ONVERSE LANNERS (LFF SOLLS) TO LET ONVERSE LANNERS (LFF SOLLS) TO LET COMPARE TO CLASSROOM IFF COMPARE TO CLASSROOM IFF ONVERSE LANSING ON ONVERSE ROOM ONVERSE ROOM TO LET ONVERSE LANSING ONVERSE ROOM TO LET COMPARE ONVERSE ROOM TO LET COMPARE ONVERSE ROOM TO LET COMPARE ONVERSE COMPARE ONVERSE COMPARE COMPARE ONVERSE COMPARE COMPARE COMPARE COMPARE COMPARE COMPARE COMPAR	LN LN LN PT LN LN FT LN CORC PANTED LN LN LN LN CPT LN LN CPT LN	MATERIAL RB RB RB PT RB RB RB RB RB RB RB RB RB RB	P P P P P P P P P P P P P P	E P P P P P P P P P P P P P P P P P P P	S P	P P P P P P P P P P P P P P P P P P P	ACT-1 ACT-1 ACT-1 EP ACT-1 EP ACT-1 EC ACT-1 ACT-3 ACT-1 ACT-3 ACT-1 ACT-3 ACT-1 ACT-3 ACT-1 ACT-3 ACT-1 ACT-3 ACT-1 ACT-1 ACT-1	NOTES
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NDD ND ND ND ND ND ND ND ND ND	FLOOR ROUNDED ROUNDE ROUNDED ROUNDE ROUNDED ROUNDE	LN P L LN LN LN P LN	MATERIAL R6 R5 R5 R6 R6 R6 R6 R6 R7 R6 R8 R6 R6 R6 R0 R0	ρ ρ ρ ρ P P	E P P	S P P	р р р р P P	ACT-1 ACT-1 ACT-1 ACT-1 BCT-1 ACT-1A	PORCE AN THE SECTION 09 20 19 PORCE AN THE SECTION 09 20 PORCE AND ASSORPTION SECTI
NINC AT A A A A A A A A A A A A A A A A A A	FLOOR ROUNDAME ROUNDAME ROUNDAME ROUNDAME ROUNDAME ROUNDAME ROUN	LN LN LN LN LN LN LN LN CN FT T CN LN CN	MATERIAL R6 R5 R5 R6 R6 R6 R6 R6 R7 R6 R8 R6 R6 R6 R0 R0	ρ ρ ρ ρ P P	Е	S P P	p p p p p p p? p p? p p? p p? p p? p p? p p p </td <td>ACT-1 ACT-1 ACT-1 BCT-1 BCT-1 BCT-1 ACT-1A</td> <td>PORCEAN TLE SECTION 49 S10 SECTION 4</td>	ACT-1 ACT-1 ACT-1 BCT-1 BCT-1 BCT-1 ACT-1A	PORCEAN TLE SECTION 49 S10 SECTION 4
Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant Constant	FLOOR	LN P L LN LN P LN LN P LN LN LN P LN	MATERIAL R6 R3 R6 R6	р р р р р р р р р р р р р р		S P P	р р р р р р р р р р р р р р р р р р р р р р р р р р р р р р р р р р P р P р P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P	ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 BT ACT-1 BT ACT-1 BT ACT-1 BT ACT-1 BT ACT-1 ACT-1 <	PORCEAN TLE PORCEAN TLE SCTOR V9 21 PORCEAN TLE SCTOR V9 22 PORCEAN TLE SCTOR
ND ND 8 8 9 1 2 2 4 3 4 3 4 4 5 6 6 7 7 7 8 9 9 1 1 2 3 4 4 4 1 2 2 2 4 4 1 2 3 4 4 4 NEE 2 2 3 4 4 NE 1 2 2 3 4 4 4 NE 1 2 2 3 3 4 4 NO 2 3 3 4 4 0 0<	FLOOR	LN LN LN LN LN LN LN LN LN Cn T	WATERIAL NB Re RE RE	ρ ρ ρ ρ	E P P PT(F) P P P <tr< td=""><td>s p</td><td>P P P P P P P17(EP P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P O'TINE CILLE Contect CONTEL Contect LE LE LE E SASE E 3) Single Single</td><td>ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 ACT-1A</td><td>PORCELAN TILE SECTION 09 80 19 U PORCELAN TILE SECTION 09 80 19 U U U CO SECTION 09 80 19 U U CO SECTION 09 80 19 U SECTION 09 80 19 U SECTION 09 80 19 U SECTION 09 80 19 SECTION 09 80 19 SECTION 09 80 19 SECTION 09 80 19 SECTION 09 80 29 SECTION 09 80 SECTION 09 80 29 SECTION 09 80 SECTION 09 80 29 SECTION 09 80 SEC</td></tr<>	s p	P P P P P P P17(EP P P P P P P P P P P P P P P P P P P P P P P P P P P P P P P O'TINE CILLE Contect CONTEL Contect LE LE LE E SASE E 3) Single	ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 ACT-1A	PORCELAN TILE SECTION 09 80 19 U PORCELAN TILE SECTION 09 80 19 U U U CO SECTION 09 80 19 U U CO SECTION 09 80 19 U SECTION 09 80 19 U SECTION 09 80 19 U SECTION 09 80 19 SECTION 09 80 19 SECTION 09 80 19 SECTION 09 80 19 SECTION 09 80 29 SECTION 09 80 SECTION 09 80 29 SECTION 09 80 SECTION 09 80 29 SECTION 09 80 SEC
OND MI # 38 31 32 22 33 34 35 36 37 38 39 312 22 33 34 35 36 37 38 39 30 31 33 44 ENER LOOR PACES ENER LOOR EXP* DOR ORONE EEFER ROVIEL OORS SINGUN ROVIEL OORS EEFER ROVIEL OORS SINGUN SINGUN SINGUN ROVIEL OORS ROVIEL OORS ROVIEL	FLOOR	LN LN LN LN LN LN IN IN UN LN UN	Image: 2016 control of the c	ρ ρ ρ ρ	E P P PT(P) P P P <tr< td=""><td>S P P</td><td>P P P P</td><td>ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 BCT-1 BCT-1 BCT-1 ACT-1</td><td>PORCEAN TLE PORCEAN TLE SCTOR V9 21 PORCEAN TLE SCTOR V9 22 PORCEAN TLE SCTOR</td></tr<>	S P P	P P P P	ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 BCT-1 BCT-1 BCT-1 ACT-1	PORCEAN TLE PORCEAN TLE SCTOR V9 21 PORCEAN TLE SCTOR V9 22 PORCEAN TLE SCTOR
COND Mu # Second Secon	FLOOR	LN LN LN LN LN LN LN LN LN COGC PARTED LN LN COGC PARTED LN LN COGC PARTED LN LN LN LN COGC PARTED LN	Image: 2016 control of the second control o	р р р р р р р р р р р р р р	E P P PT(F) P P P <tr< td=""><td>S P P PTFP P P P</td><td>P P P P</td><td>ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 ACT-1A</td><td>PORCELAN TILE SCIENCI NG SCIENCI NG SCIENCI</td></tr<>	S P P PTFP P P P	P P P P	ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 ACT-1A	PORCELAN TILE SCIENCI NG SCIENCI
OND OND OM # 38 333 31 322 24 333 31 326 36 336 31 337 36 36 36 37 36 38 30 39 36 39 36 30 36 31 33 14 33 414 20 SENER EXP TO WORCE CONDUCTORY SINGUI CALOOR REFER SINGUI VICON ROVIEL VORCES SINGUI VICON VORCES SINGUI VICON VICON REOVIN VICON REOVIN VICON REOVIN VICON AT S VITEND VICON AT S VITEND VICON AT S VICON DAR VICON AT S VICON DAR VICON AT S	FLOOR	LN LN LN LN LN LN LN LN LN P P CONC PARTED LN LN LN P SO	MATERIAL R6 R3 R8 R8 R9 R9	р р р р р р р р р р р р р р		S P P PTFP P P P	P P P P	ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 ACT-1 BCT-1 ACT-1A	PORCEAN TLE SECTION 69 50) SECTION 69 50) S
OND MY # 38 38 37 37 37 38 39 37 37 38 39 39 39 39 39 39 39 39 39 39	FLOOR FLOOR ROUNDED ROUNDE ROUNDED ROUNDE RO	LN LN LN LN LN LN LN LN LN F T T T C LN C COLC PMPTB LN LN COLC PMPTB LN LN LN COLC PMPTB LN LN LN COLC PMPTB COLC S COLC LN	Image: 2016 content	р р р р р р р р р р р р р р		S P P	P P P P	ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 ACT-1 BCT-1 ACT-1A	PORCELAN TILE SCIENCI NG SCIENCI
OND MY # 88 88 91 11 11 11 12 13 14 14 15 15 17 17 17 17 17 17 17 19 19 19 19 19 19 19 19 19 19	ROOM NAME	LN CORC PARTED LN LN FF CORC PARTED LN LN CORC PARTED LN LN CORC PARTED LN SOG9 CORT LN LN SOG9 CORT LN LN SOG9 CORT LN LN LN CORC PARTED LN SOG9 CORT LN	NB RE ND RE ND RE SUN OL LUN OL LUD DOUDA DOUDA ALL TOLET TENTISA CETURAL RENED N RESUBLE N RESEDEN N	р р р р р р р р р р р р р р	E P P	S P P	P P P P	ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 ACT-1 BCT-1 ACT-1A	PORCELAN TILE SCIENCI NG SCIENCI
OND W # A AA A	PLOOR PLOOR ROUNDAME PLOOR ROUNDAME ROUNDAME ROUNDAME ROUNDAME ROUNDAME ROUNDAME ROUNDAME ROUNDAME	LN L	NB NB NB R ND NO ND NO <	р р р р р р р р р р р р р р	E P P	S P P PTFD P PTFD P P P <	P P P P	ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 ACT-1 BCT-1 ACT-1A	PORCELAN TILE SCIENCI NG SCIENCI
OND M 9 808 00 00 00 00 00 00 00 00 00 00 00 00	PLOOR PLOOR ROUNDAME PLOOR ROUNDAME ROUNDAME ROUNDAME ROUNDAME ROUNDAME ROUNDAME ROUNDAME ROUNDA	LN CORC PARTED LN LN CORC PARTED LN LN LN CORC PARTED LN LN LN CORC PARTED LN LN LN LN CORC PARTED LN	WATERIAL R6 R5 R6 R7 R8	р р р р р р р р р р р р р р	E P P	S P P PTEP P PTEP P PTEP P P P	P P P P	ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 BCT-1 ACT-1 BCT-1 ACT-1A	PORCELAN TILE SCIENCI NG SCIENCI

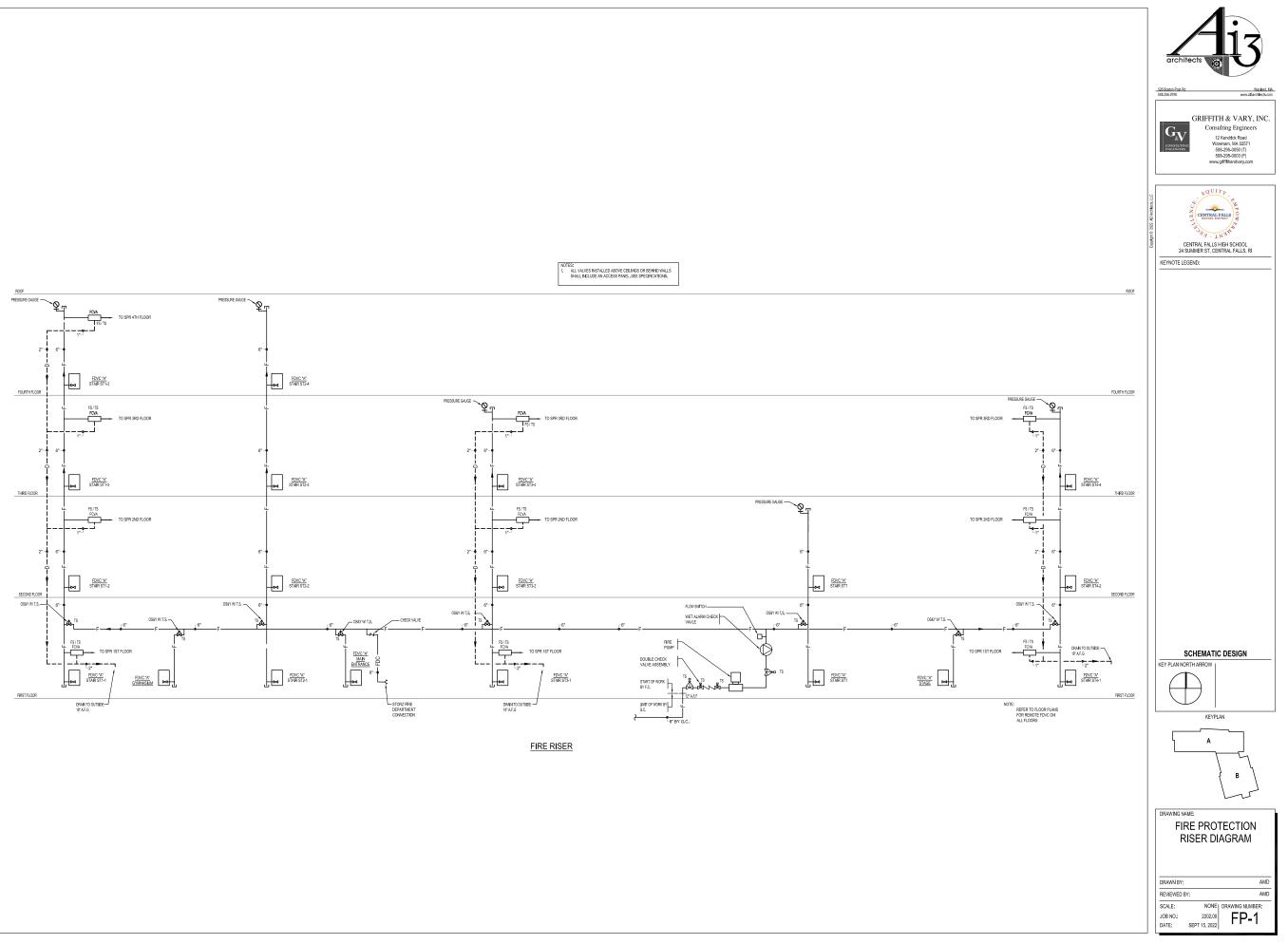
GENERAL	NOTES	

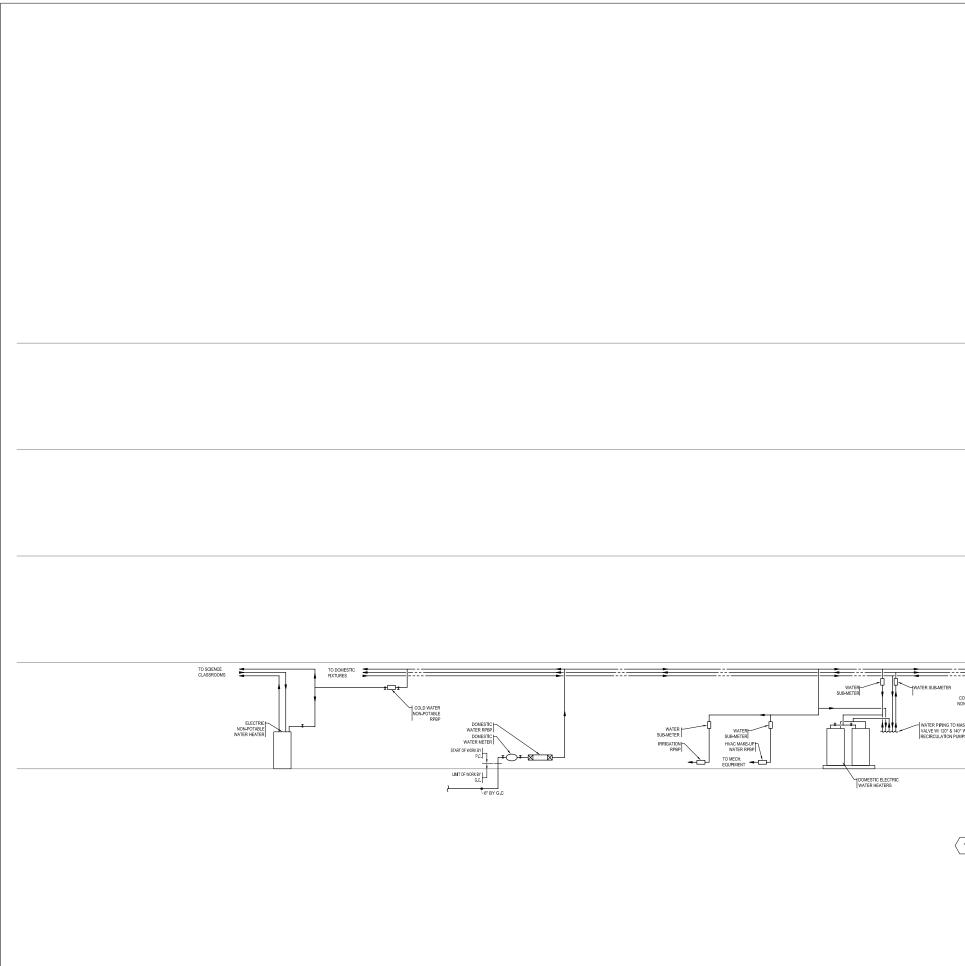
ROOM FIRST FLC	FINISH SCHEDULE		BASE		WALL	ATERIAL			
ROOM #	ROOM NAME	FLOOR MATERIAL	MATERIAL	N	E	S	W	CEILING	NOTES
101 102 102A	GRADE 9 CLASSROOM DIVERSE LEARNERS (SID) CALMING ROOM	LIN LIN	RB RB RB	P	P	P P	P	ACT - 1 ACT - 1 ACT - 1	
102A 102B	TOLET SMALL GROUP	PT	PT	PT/EP	PT/EP	P PT/EP	P PT / EP	EP ACT-1	
104 104A	DIVERSE LEARNERS (SID) CALMING ROOM	LIN	RB	P	P	P	P	ACT-1 ACT-1	
104A 104B 105	TOLET GRADE 9 CLASSROOM	PT	PT	PT/EP	PT/EP	P PT/EP	PT/EP	EP ACT-1	
105	CUSTODIAL GRADE 9 CLASSROOM	LIN CONC. PAINTED LIN	RB	P	P	P	P	EXP ACT-1	
108	IDF	SCRF	RB	P	P	P	P	ACT - 3	
109	GRADE 9 CLASSROOM CTE (ENGINEERING/ ROBOTICS)	LIN	RB RB	P	P	P	P	ACT - 1 ACT - 1	
111 112	SMALL GROUP DIVERSE LEARNES (SID THERAPUTIC)	LIN	RB RB	P	P	P P	P P	ACT - 1 ACT - 1	
113 113A	CTE (BIOMEDICAL/SCIENCE CLASSROOM) MOCK EXAM ROOM	LIN	RB RB	P P	P	P P	P P	ACT - 1 ACT - 1	
114 115	CTE (COMMUNITY HEALTH CLINIC) SCIENCE	LIN	RB RB	P	P	P P	P	ACT - 1 ACT - 1	
115A 116	SCIENCE PREP STUDENT COMMONS	LIN	RB PT	P PT/P	P PT/P	P PT/P	P PT/P	ACT - 1 ACT - 3	
116A 116B	QUET DINING KITCHEN	LIN	PT QT	PT/P QT/P	PT/P QT/P	PT/P QT/P	PT/P QT/P	ACT - 3 ACT - 3	
117 117A	MEDICAL NURSE OFFICE	LIN	RB RB	P P	P P	P P	P P	ACT - 3 ACT - 3	
117B 118	TOILET CONFERENCE	PT	PT RB	PT/EP P	PT / EP	PT / EP	PT/EP P	EP ACT - 3	
119	PRINCIPALS SECRETARY PRINCIPALS OFFICE	CPT	RB	P	P	P P	P P	ACT - 3	
121	RECORDS ASSISTANT PRINCIPAL	LIN	PT	PT / P	PT / P	PT/P P	PT/P	ACT - 3 ACT - 3	
123	DUPLICATING ADMIN WAITING/ MAIL	LIN	PT	PT/P PT/P	PT/P PT/P	PT/P PT/P	PT/P PT/P	ACT-3 ACT-3	
124 125 126	DELIVERIES GYMNASILM	CONC. PAINTED WAF	RB	P	P	P	P	EXP	
120 127 127A	BOYSLOCKERS BOYSTOLET	PT PT	PT	P PT/EP PT/EP	PT/EP PT/EP	PT/EP PT/EP	P PT/EP PT/EP	EP	
12/A 128 128A	HEALTH INSTRUCTOR TOLET	LIN	RB PT	PT/EP PT/EP	PT/EP PT/EP	PT/EP PT/EP	PT/EP PT/EP	ACT - 1 FP	
129	TOLET ATHLETIC DIRECTOR GENDER NEUTRAL LOCKERS	PT LIN PT	RB	Ρ	P	Ρ	Р	ACT - 1	
130	GYM STORAGE	CONC. PAINTED	PT RB	PT/EP P	PT/EP P	PT/EP P	PT/EP P	EP EXP	
132 132A	GIRLS LOCKERS GIRLS TOILET	PT PT	PT PT	PT/EP PT/EP	PT/EP PT/EP	PT/EP PT/EP	PT/EP PT/EP	EP EP	
170 C100	ELEV MACH CORRIDOR	CONC. PAINTED	RB PT	P PT/P	P PT/P	P PT/P	P PT/P	EXP ACT - 3	
C100A C101	COLLABORATION CORRIDOR	LIN	PT PT	PT/P PT/P	PT/P PT/P	PT/P PT/P	PT/P PT/P	ACT-3 ACT-3	
C102 C102A	ADMIN CORRIDOR VESTIBULE	LIN LIN / MAT	PT PT	PT/P PT/P	PT/P PT/P	PT/P PT/P	PT/P PT/P	ACT-3 ACT-3	
C103 EL1-1	CORRIDOR ELEVATOR 1	LIN	PT MFR	PT / P MFR	PT / P MFR	PT/P MFR	PT / P MFR	ACT - 3 MFR	
EL2-1 ST1-1	ELEVATOR 2 STAIR 1	R LIN/R	MFR PT	MFR PT / P	MFR PT / P	MFR PT/P	MFR PT/P	MFR ACT - 3	
ST2-1 ST3-1	STAR 2 STAR 3	LIN/R LIN/R	PT PT	PT/P PT/P	PT/P PT/P	PT/P PT/P	PT/P PT/P	ACT - 3 ACT - 3	
ST4-1 ST5-1	STAIR 4 STAIR 5	LIN/R LIN/R	PT PT	PT/P PT/P	PT/P PT/P	PT/P PT/P	PT/P PT/P	ACT - 3 ACT - 3	
T101 T102	BOYS TOILET GIRLS TOILET	PT	PT	PT/EP PT/EP	PT/EP PT/EP	PT/EP PT/EP	PT/EP PT/EP	EP	
	TOLET	PT	PT	PT / EP			PT / EP	EP	
T103 T104	TOLET	PT	PT	PT/EP	PT/EP PT/EP	PT / EP PT / FP	PT/EP PT/FP		
T104 T105 T106 T107 T108	TOLET BOYS TOLET GRLS TOLET TOLET TOLET	PT PT PT PT PT	PT PT PT PT	PT/EP PT/EP PT/EP PT/EP PT/EP	PT/EP PT/EP PT/EP PT/EP PT/EP PT/EP	PT/EP PT/EP PT/EP PT/EP PT/EP PT/EP	PT/EP PT/EP PT/EP PT/EP PT/EP PT/EP	EP EP EP EP EP	
T104 T105 T106 T107 T108 ROOM SECOND F	ToLET BOYSTOLET GRESTOLET TOLET TOLET FINISH SCHEDULE FLOOR	PT PT PT PT	PT PT PT PT PT PT	PT/EP PT/EP PT/EP PT/EP PT/EP	PT/EP PT/EP PT/EP PT/EP PT/EP PT/EP	PT / EP PT / EP PT / EP PT / EP PT / EP PT / EP	PT/EP PT/EP PT/EP PT/EP PT/EP	EP EP EP EP	
T104 T105 T106 T107 T108 ROOM SECOND F ROOM #	TOLET SIONS TOLET GRES TOLET TOLET TOLET FINISH SCHEDULE FLOOR LOOR ROOM NAME	PT PT PT PT PT	PT PT PT PT PT BASE MATERIAL	PT/EP PT/EP PT/EP PT/EP	PT/EP PT/EP PT/EP PT/EP PT/EP PT/EP	PT / EP PT / EP PT / EP PT / EP PT / EP	PT/EP PT/EP PT/EP PT/EP	EP EP EP EP EP	NOTES
T104 T105 T106 T107 T108 ROOM F ROOM # 1338 201	TOLET GRES TOLET GRES TOLET TOLET TOLET FINISH SCHEDULE FLOOR New room Make New room Sastrom	PT PT PT PT FLOOR MATERIAL LIN LIN	PT PT PT PT PT PT PT RB RB	PT/EP PT/EP PT/EP PT/EP PT/EP	PT/EP PT/EP PT/EP PT/EP PT/EP PT/EP	PT / EP PT / EP PT / EP PT / EP PT / EP PT / EP	PT/EP PT/EP PT/EP PT/EP PT/EP	EP EP EP EP EP CEILING	NOTES
T104 T105 T106 T107 T108 ROOM SECOND F ROOM # 1338 201 202 2024	TOLET TOLET GRESTOLET GRESTOLET TOLET TOLET FINISH SCHEDULE FLOOR ROON NAME NEW ROON NAME NEW ROON DREASE LEWNERS (LIFE SRLLS) TOLET	PT PT PT PT FLOOR MATERIAL LIN LIN LIN PT	PT PT PT PT PT PT PT	PT/EP PT/EP PT/EP PT/EP PT/EP	PT/EP PT/EP PT/EP PT/EP PT/EP PT/EP	PT / EP PT / EP PT / EP PT / EP PT / EP PT / EP	PT/EP PT/EP PT/EP PT/EP PT/EP PT/EP	EP EP EP EP EP EP CEILING ACT-1 ACT-1 ACT-1 EP	NOTES
T104 T105 T106 T107 T107 T108 ROOM # 1338 201 202 202A 203 204	TOLET GRES TOLET GRES TOLET TOLET TOLET FINISH SCHEDULE FILOOR ROON NAME NEW ROON ROON SCHEDULE SCHEDULE SCHEDULS TOLET SMALL GROUP DOMERSE LUPRES LIPE SKILS) TOLET SMALL GROUP	PT PT PT PT PT PT PT PT LN LN LN LN LN	PT PT PT PT PT PT PT RB RB RB RB RB RB RB RB	PT/EP PT/EP PT/EP PT/EP PT/EP PT/EP P P P P P F /EP P P P	Р/(ЕР Р/(ЕР Р//ЕР Р//ЕР Р//ЕР Р//ЕР Р Р Р Р Р Р Р Р Р Р	PT / EP PT / EP PT / EP PT / EP PT / EP PT / EP P P P P P P P P P P P P P	РТ.ЕР РТ.ЕР РТ.ЕР РТ.ЕР РТ.ЕР РТ.ЕР РТ.ЕР РТ.ЕР Р Р Р Р Р Р Р Р Р Р Р Р Р	EP EP EP EP EP EP CEILING ACT-1 ACT-1 ACT-1 ACT-1 ACT-1 ACT-1	NOTES
T104 T105 T105 T107 T107 T108 ROOM F ROOM F 1338 201 202 202A 203	TOLET TOLET GRESTOLET TOLET TOLET TOLET TOLET FINISH SCHEDULE FLOOR ROOM NAME GOWERT CLASSROOM GOWERT CLASSROOM GOWERT CLASSROOM TOLET STOLET	PT PT PT PT PT PT PT PT PT IN IN IN IN IN IN	PT PT PT PT PT PT PT RB RB RB RB RB RB RB	PT/EP PT/EP PT/EP PT/EP PT/EP PT/EP	PT/EP	PT / EP PT / EP	PT/EP PT/EP PT/EP PT/EP PT/EP PT/EP P	EP EP EP EP EP EP CEILING ACT-1 ACT-1 ACT-1 EP ACT-1	NOTES
T104 T105 T106 T107 T107 T108 ROOM # ROOM # 1338 201 2024 2024 2024 2024 2024 2024 2024	TOLET GRES TOLET GRES TOLET TOLET TOLET FINISH SCHEDULE FILOOR ROOM NAME ROOM NAME ROOM ROLAGROOM GREGE ROLAGR	PT PT UN UN PT UN PT UN UN UN UN UN UN UN UN UN	PT PT PT PT PT PT PT PT PT RB RB RB RB RB RB RB RB RB RB RB RB	PT/EP PT/EP PT/EP PT/EP PT/EP PT/EP P P P P P F /EP P P P	Р/(ЕР Р/(ЕР Р//ЕР Р//ЕР Р//ЕР Р//ЕР Р Р Р Р Р Р Р Р Р Р	PT / EP PT / EP PT / EP PT / EP PT / EP PT / EP P P P P P P P P P P P P P	РТ.ЕР РТ.ЕР РТ.ЕР РТ.ЕР РТ.ЕР РТ.ЕР РТ.ЕР РТ.ЕР Р Р Р Р Р Р Р Р Р Р Р Р Р	EP EP EP EP EP EP EP EP EP EP EP EP EP E	NOTES
1104 1105 1106 1107 1107 1108 ROOM # 1338 201 202 202A 203 204 204 205 206 209	TOLET GRES TOLET GRES TOLET TOLET TOLET TOLET FINISH SCHEDULE FLOOR ROOM NAME NEW ROOM GRACE TOLASSROOM OFFREE LEANRERS LIFE SKILLS) TOLET SKILL GOUP DRESE LEANRERS LIFE SKILLS) TOLET GRACE TOLASSROOM OF GRACE TOLASSROOM OF GRACE TOLASSROOM OF	PT PT PT PT PT PT PT PT PT PT PT PT PT P	PT PT PT PT PT PT PT PT PT RB RB RB RB RB RB RB RB RB RB RB RB RB	PT/EP PT/EP PT/EP PT/EP PT/EP PT/EP P P P P P P P P P P P P P P P P P P	PT (EP) PT (EP) P P P P PT (EP) P P P P P P P P P P P P P P P P P	РТ / ЕР РТ / ЕР РТ / ЕР РТ / ЕР РТ / ЕР РТ / ЕР Р Р Р Р Р Р Р Р Р Р Р Р Р	РТ (ЕР РТ (ЕР РТ (ЕР РТ (ЕР РТ (ЕР РТ (ЕР РТ (ЕР РТ (ЕР Р Р Р Р Р Р Р Р Р Р Р Р Р	EP EP EP EP EP EP EP EP EP EP ACT-1	NOTES
T104 T105 T106 T107 T107 T108 ROOM SECOND F ROOM 3 2004 2004 2004 2004 2004 2004 2004 200	TOLET ONS TOLET ORE TOLET TOLET TOLET TOLET TOLET FINISH SCHEDULE LOOR ROOM NAME NEW ROOM NEW TOLASSROOM ONE TOLASSROOM SULL GROUP DUETE GRAVE TOLASSROOM ONESSE LANNERS LIFE SKILLS) TOLET GRAVE TOLASSROOM CUSTCUL GRAVE TOLASSROOM CUSTCUL MONTENS ROOM DUESSROOM DUESS	PT PT PT PT PT PT PT PT PT PT PT IN IN IN IN IN IN IN IN IN IN	PT PT PT PT PT PT PT PT PT PT RB RB RB RB RB RB RB RB RB RB RB RB RB	PT / EP PT / EP PT / EP PT / EP PT / EP PT / EP P P P P P P P P P P P P P	PT (EP) P	РТ (ЕР РТ (ЕР РТ (ЕР РТ (ЕР РТ (ЕР РТ (ЕР РТ (ЕР Р Р Р Р Р Р Р Р Р Р Р Р Р	РТ.ЕР РТ.ЕР РТ.ЕР РТ.ЕР РТ.ЕР РТ.ЕР РТ.ЕР Р Р Р Р Р Р Р Р Р Р Р Р Р	EP EP EP EP EP EP EP EP EP EP ACT-1	NOTES
T104 T105 T106 T107 T108 ROOM SECOND F ROOM # 1338 201 1338 201 202A 203 202A 203 204 204 205 205 206 205 206 205 206 205 206 205 206 205 206 205 206 205 206 210 210 210 210	TOLET ONSTOLET ORESTOLET TOLET TOLET TOLET TOLET FINISH SCHEDULE FLOOR ROOM NAME NEW ROOM NEW	PT PT PT PT PT PT RLOOR MATERIAL IN I.M I.M I.M I.M I.N PT COXC PARTED I.M I.M I.M PT SCRP I.M S.MP I.M I.M	PT PT PT PT PT PT PT PT PT RB RB RB PT RB RB RB RB RB RB RB RB RB RB RB RB RB	PT/EP PT/EP PT/EP PT/EP PT/EP PT/EP P P P P P P P P P P P P P P P P P P	PT (EP) PT (EP) P P P P PT (EP) P P P P P P P P P P P P P P P P P	РТ / ЕР РТ / ЕР РТ / ЕР РТ / ЕР РТ / ЕР РТ / ЕР Р Р Р Р Р Р Р Р Р Р Р Р Р	РТ (ЕР РТ (ЕР РТ (ЕР РТ (ЕР РТ (ЕР РТ (ЕР РТ (ЕР РТ (ЕР Р Р Р Р Р Р Р Р Р Р Р Р Р	EP EP EP EP EP EP EP EP EP EP EP EP ACT-1 ACT-1 ACT-1 ACT-1 EP ACT-1 EP ACT-1 EP ACT-1 EP ACT-1 EP ACT-1 ACT-1 EP ACT-1 ACT-1 EP ACT-1 ACT	NOTES
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DRAWING SHEET FOR THE SPACE INDICATED.
13. UNLESS NOTED OTHERWISE, CYPSUM SURFACE BEHIND VINYL WALL COVERINGS TO BE LEVEL 4 FINSH AND PRIMED PRIOR TO WALL COVERING IS INSTALLED. CYPSUM SURFACES BEHIND VINYL SIGNAGE GRAPHICS TO BE LEVEL 5 FINISH AND PRIMED PRIOR TO GRAPHIC IS INSTALLED.
14. FURNISH AND INSTALL RUBBER FLOORING AT ALL ELEVATORS, BY SECTION 09 65 23. PROVIDE SAME TYPE AND COLOR RUBBER FLOORING MATERIAL AS USED AT THE STAIR LANDINGS.
15. STAGE FLOORING WILL BE PAINTED MASONITE BOARD. THE FLOOR PLAN SHALL IDENTIFY LOCATION OF THE TRANSITION TO ADJACENT FLOORING MATERIAL. AREAS DIRECTLY UNDER FIXED SEATING IN AUDITORIUM ARE TO BE CONC. PAINTED W/ EPOXY DECK ENAMEL ALL OTHER AREAS TO BE CARPET, U.N.O.

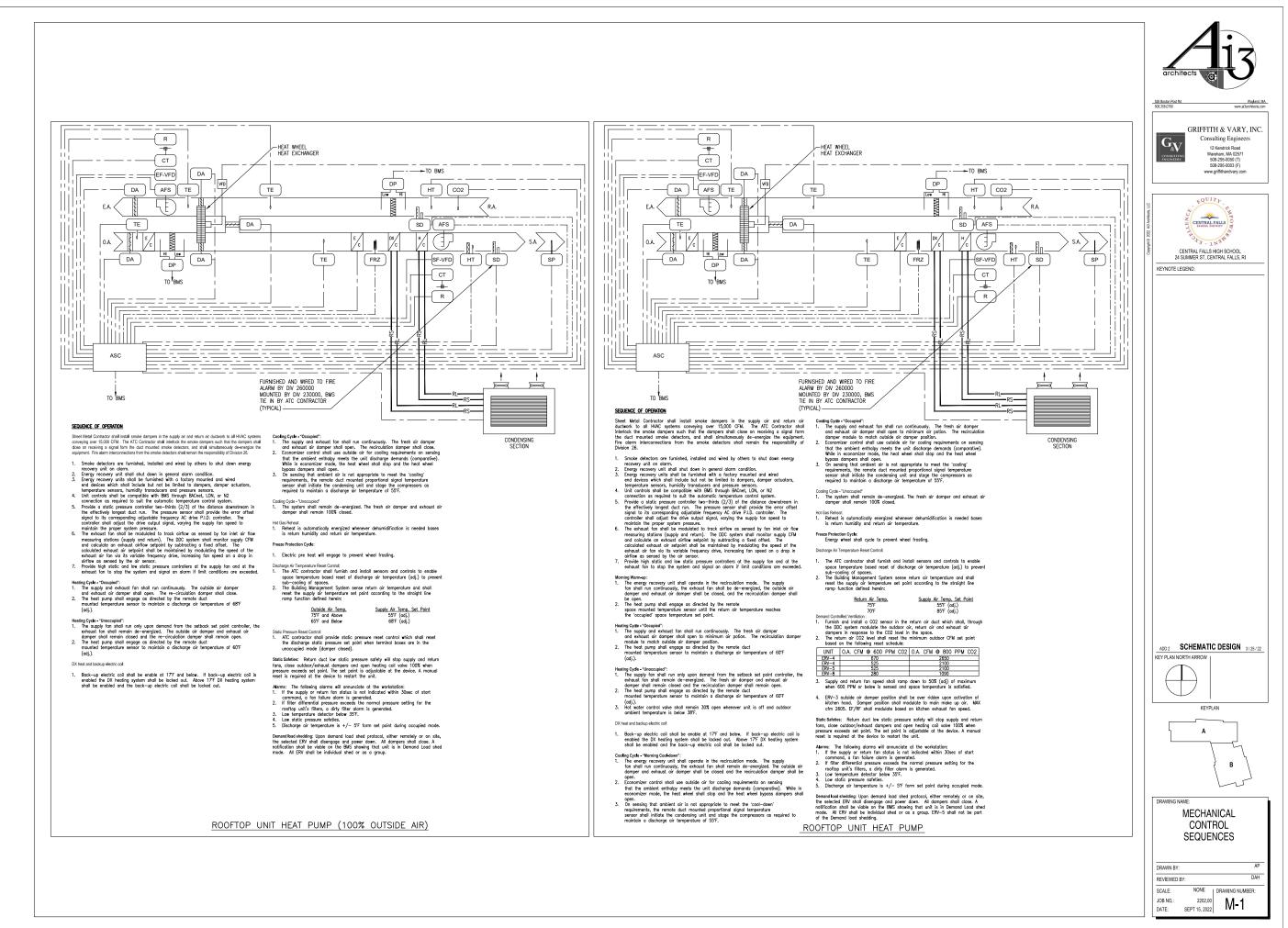
ACOUSTICAL CEILING TYPES:
 CELING GROS FOR ALL TYPES. ARMSTRONG 15/16 PRELUCE EXPOSED TEE SYSTEM A COT: 1- PRAVE. SIZE 24 INCHES BY 48 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE A COT-2P PRAVE. SIZE 12 INCHES BY 34 THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCH THICK. PAREL EDGE: TEGULAR. COLOR: WHITE 4. ACT3: PAREL SIZE: 24 INCHES BY 34 INCH THICK. PAREL SIZE: 24 INCHES BY 34 INCH THICK. PAREL SIZE: 24 INCHES BY 34 INCH THICK. PAREL SIZE: 34 INCH THICK. PAREL SIZE: 34 INCH THICK. PAREL SIZE: 34 INCH THICK. PAREL SIZE: 34 INCH THICK. PAREL SIZ

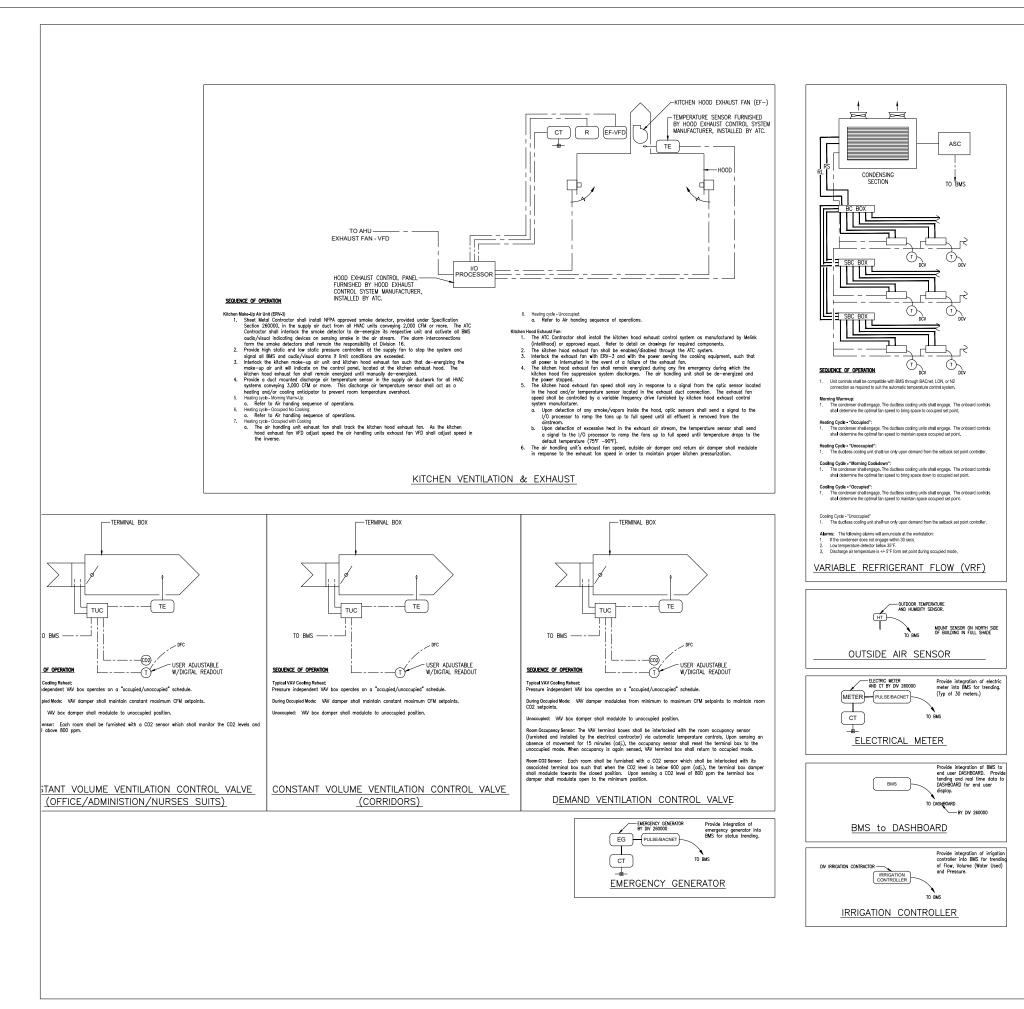


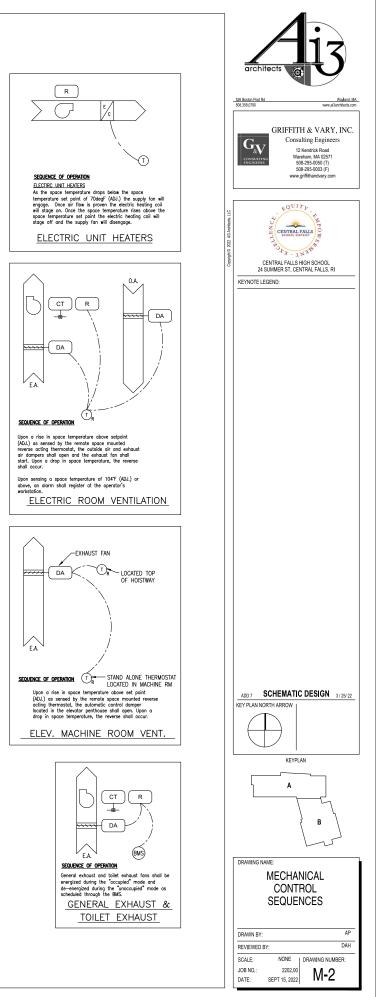




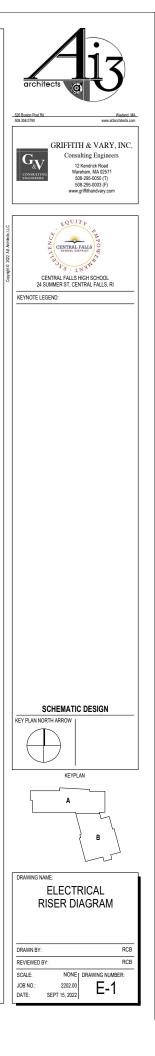
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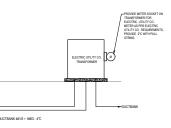












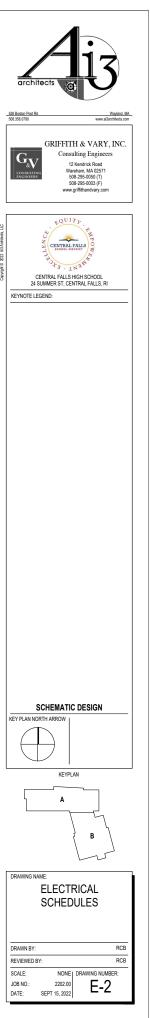
				ARD SWBD1 SCHEDULE
CIRCUITE	DEAVED	3500A, 27		T CIRCUIT ALC., FLOOR MOUNTED, WITH SURGE PROTECTION DEVICE
NUMBER	TRIP (A)	LOAD	FEEDER AND CONDUIT SIZE	NOTES
1	3500/3	MAIN CIRCUIT BREAKER	40#600KCMIL - (10) 4°C	
2	400/3	PANELBOARD LP41	40044	
3	175/3	TRANSFORMER TDR1		SEE TRANSFORMER SCHEDULE
4	300/3	PANEBOARD LP32	30044	
5	300/3	PANEBOARD LP31	30044	
6	300/3	PANEBOARD LP22	30044	
7	300/3	PANEBOARD LP21	30044	
8	100/3	ATS-2-1	(100,44)	
9	300/3	PANEBOARD LP12	30044	
10	300/3	PANEBOARD LP11	30044	
11	175/3	TRANSFORMER TKP12		SEE TRANSFORMER SCHEDULE
12	1200/3	ATS1-1	(1200.44)	

PANELBOARD OEDP1 SCHEDULE								
1200A, 277/480V, 30, 4W, 100,000 SHORT CIRCUIT A LC. FLOOR MOUNTED, WITH SURGE PROTECTION DEVICE								
CIRCUIT	BREAKER	LOAD	FEEDER AND CONDUIT SIZE	NOTES				
NUMBER	TRIP (A)		CONDULT SIZE					
1	1200/3	MAIN CIRCUIT BREAKER	(1200.44)					
2	503	TRANSFORMER TRR1		SEE TRANSFORMER SCHEDULE				
3	250/3	PANELBOARD OL11	25044					
4	250/3	PANEBOARD OL12	25044					
5	250/3	PANEBOARD OL21	25044					
6	250/3	PANEBOARD 0L22	(250A4)					
7	250/3	PANEBOARD OL31	25044					
8	250/3	PANEBOARD OL32	25044					
9	250/3	PANEBOARD OL41	(250A4)					

	DRY TYPE TRANSFORMER SCHEDULE											
	NULLIA. 1. BOID NEUTING, OF TRANSFORMER SECONANY TO TRANSFORMER CASE WITH KONDING J.MPGR. 2. ALL COMOUNTING SERSTREMENDE IN INS SOCIALIS ARE COPPER. 3. Weeks: A related accounced for the Relation and the Relation and the Relation of Relational of Relationship Protection, IT SHALL BE LOCATED WITHIN IN OF THE TRANSFORMER IT IS PROTECTING. 4. PRS-INCEDIMENTIAL TO RELATED SOCIAL TREASERS BUILED FOR PRIMARY OR SECONDARY PROTECTION, IT SHALL BE LOCATED WITHIN IN OF THE TRANSFORMER IT IS PROTECTING. 4. PRS-INCED ACCOUNCET SIMILAR TO REAL TREASER BUILED FOR PRIMARY OR SECONDARY PROTECTION, IT SHALL BE LOCATED WITHIN IN OF THE TRANSFORMER IT IS PROTECTING. 4. PRS-INCED ACCOUNCET SIMILAR TO REAL TREASER BUILED FOR PRIMARY OR SECONDARY PROTECTION, IT SHALL BE LOCATED WITHIN IN OF THE TRANSFORMER IT IS PROTECTING. 5. PRS-INCED ACCOUNCET SIMILAR TO REAL TREASER BUILED FOR PRIMARY OR SECONDARY PROTECTION, IT SHALL BE LOCATED WITHIN IN OF THE TRANSFORMER IT IS PROTECTING.											
				PRIMARY				SECONDARY				
NAME	SIZE (KVA)	VOLTAGE	OVERCURRENT PROTECTION SIZE (A)	LOCATION OF OVERCURRENT PROTECTION	FEEDER AND CONDUIT SIZE	VOLTAGE	OVERCURRENT PROTECTION SIZE (A)	LOCATION OF OVERCURRENT PROTECTION	FEEDER AND CONDUIT SIZE	NOTES	PHYSCAL SIZE	ADDITIONAL REQUIREMENTS
TEP11	15	480	25/3	PANELBOARD EL11	3#10 + 1#10G - 3/4°C	120/208	60/3	PANELBOARD EP11	4#6 + 1#10G - 1°C	GROUND TRANSFORMER CASE VIA 1#6-34°C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WIATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250-30.	16" X 20"	
TRR1	30	480	50/3	PANELBOARD OEDP1	3#8 + 1#10G - 34*C	120/208	100/3	RELAY PANEL IQ1	4#2 = 1#8G - 1-1/2°C	GROUND TRANSFORMER CASE VIA 1#6-34°C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250 30.	16" X 20"	
TDR1	112.5	480	175/3	SWITCHBOARD SWBD1	3#20 + 1#6G - 2°C	120/208	400/3	DIMMER PANEL DR1	4#600KCML + 1#3G - 4"C	GROUND TRANSFORMER CASE VIA 1#10-34°C TO NEAREST AVALABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250 30.	24" X 30"	
TP11	112.5	480	175/3	PANELBOARD LP11	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD PP11	4#600KCML + 1#3G - 4"C	GROUND TRANSFORMER CASE VIA 1#10-3HYC TO NEAREST AVALABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250-30.	24" X 30"	
TP12	112.5	480	175/3	PANELBOARD LP12	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD PP12	4#600KCML + 1#3G - 4"C	GROUND TRANSFORMER CASE VIA 1#10-34°C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250-30.	24" X 30"	
TP21	112.5	480	175/3	PANELBOARD LP21	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD PP21	4#600KCML = 1#3G - 4"C	GROUND TRANSFORMER CASE VIA 1#10-34°C TO NEAREST AVALABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250 30.	24" X 30"	
TP22	112.5	480	175/3	PANELBOARD LP22	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD PP22	4#600KCML = 1#3G - 4"C	GROUND TRANSFORMER CASE VIA 1#10-34°C TO NEAREST AVALABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250 30.	24" X 30"	
TP31	112.5	480	175/3	PANELBOARD LP31	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD PP31	4#600KCML + 1#3G - 4"C	GROUND TRANSFORMER CASE VIA 1#10-34°C TO NEAREST AVALABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250-30.	24" X 30"	
TP32	112.5	480	175/3	PANELBOARD LP32	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD PP32	4#600KCML + 1#3G - 4"C	GROUND TRANSFORMER CASE VIA 1#10-34°C TO NEAREST AVALABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250-30.	24" X 30"	
TP41	112.5	480	175/3	PANELBOARD LP41	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD PP41	4#600KCML + 1#3G - 4"C	GROUND TRANSFORMER CASE VIA 1#10-3HYC TO NEAREST AVALABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250-30.	24" X 30"	
					ססע			D TRANSFORME				
				NOTES:	DRI	TIFE			IN SUITEDULE			
				1. BOND NEUTR 2. ALL CONDUC	RAL OF TRANSFORMER SECONDARY 1 CTORS REFERENCED IN THIS SCHEDU	LE ARE COPF	ER.			A OF THE TRANSPORTED IT IS DRAFF ATHO		

	ZERO SEQUENCE HARMONIC FILTER SCHEDULE							
_					OVERCURRENT PROTECTIO			
NAME	NEUTRAL CURRENT (A)	SIZE (KVA)	VOLTAGE	SIZE (A)	LOCATION	FEEDER AND CONDUIT SIZE	NOTES	PHYSCAL SIZE
ZHF11	500	60	120/208	200/3	PANELBOARD CP11	3#250KCML + 3#250KCMLN - 3*C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50° x 24.50°
ZHF12	500	60	120/208	200/3	PANELBOARD CP12	3#250KCML + 3#250KCMLN - 3*C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50° x 24.50°
ZHF21	500	60	120/208	200/3	PANELBOARD CP21	3#250KCML + 3#250KCMLN - 3*C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50" x 24.50"
ZHF22	500	60	120/208	200/3	PANELBOARD CP22	3#250KCMIL + 3#250KCMLN - 3*C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50° x 24.50°
ZHF31	500	60	120/208	200/3	PANELBOARD CP31	3#250KCMIL + 3#250KCMLN - 3*C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50° x 24.50°
ZHF32	500	60	120/208	200/3	PANELBOARD CP32	3#250KCMIL + 3#250KCMLN - 3*C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50° x 24.50°
ZHF41	500	60	120/208	200/3	PANELBOARD CP41	3#250KCMIL + 3#250KCMLN - 3*C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50° x 24.50°
ZHFOP11	500	60	120/208	200/3	PANELBOARD OP11	3#250KCMIL + 3#250KCMLN - 3*C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50° x 24.50°
ZHFOP12	500	60	120/208	200/3	PANELBOARD OP12	3#250KCMIL + 3#250KCMLN - 3*C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50° x 24.50°
ZHFOP21	500	60	120/208	200/3	PANELBOARD OP21	3#250KCMIL + 3#250KCMLN - 3*C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50° x 24.50°
ZHFOP22	500	60	120/208	200/3	PANELBOARD OP22	3#250KCMIL + 3#250KCMLN - 3*C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50" x 24.50"
ZHFOP31	500	60	120/208	200/3	PANELBOARD OP31	3#250KCML + 3#250KCMLN - 3*C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50" x 24.50"
ZHFOP32	500	60	120/208	200/3	PANELBOARD OP32	3#250KCML + 3#250KCMLN - 3*C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50" x 24.50"
ZHFOP41	500	60	120/208	200/3	PANELBOARD OP41	3#250KCML + 3#250KCMLN - 3*C	DO NOT GROUND ZERO SEQUENCE HARMONIC FILTER TERMINAL HO. GROUND FILTER CASE PER NEC.	21.50" x 24.50"

	DRY TYPE K-RATED TRANSFORMER SCHEDULE											
	NOTES 1. SHO INCIDENT OF TRANSPORTER SCOREGAPT OF TRANSPORTER PASE WITH BORDING JURGER. 1. ALLOPACIDED REFERENCED IN INS SCIENCES AND RESCORES AND REPORTED RESCORES AND REPORTED RESCORES AND RESCORES											
				PRIMARY				SECONDARY				
NAME	SIZE (KVA)	VOLTAGE	OVERCURRENT PROTECTION SIZE (A)	LOCATION OF OVERCURRENT PROTECTION	FEEDER AND CONDUIT SIZE	VOLTAGE	OVERCURRENT PROTECTION SIZE (A)	LOCATION OF OVERCURRENT PROTECTION	FEEDER AND CONDUIT SIZE	NOTES	PHYSCAL SIZE	ADDITIONAL REQUIREMENTS
TC11	112.5	480	175/3	PANELBOARD LP11	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD CP11	10#3/0 + 2#3G - (2) 2-1/2°C	GROUND TRANSFORMER CASE VIA 1110.34°C TO NEAREST AVALABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50° x 41.50°	
TC12	112.5	480	175/3	PANELBOARD LP12	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD CP12	10#3/0 + 2#3G - (2) 2-1/2°C	GROUND TRANSFORMER CASE VIA 1F10-34°C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50° x 41.50°	
TC21	112.5	480	175/3	PANELBOARD LP21	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD CP21	10#310 + 2#3G - (2) 2-1/2°C	GROUND TRANSFORMER CASE VIA 1410-34*C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250-30.	27.50° x 41.50°	
TC22	112.5	480	175/3	PANELBOARD LP22	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD CP22	10#3/0 + 2#3G - (2) 2-1/2°C	GROUND TRANSFORMER CASE VIA 11/10.34°C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50° x 41.50°	
TC31	112.5	480	175/3	PANELBOARD LP31	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD CP31	10#3/0 + 2#3G - (2) 2-1/2°C	GROUND TRANSFORMER CASE VIA 11/10.34°C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50° x 41.50°	
TC32	112.5	480	175/3	PANELBOARD LP32	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD CP32	10#3/0 + 2#3G - (2) 2-1/2°C	GROUND TRANSFORMER CASE VIA 1F10-34°C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50° x 41.50°	
TC41	112.5	480	175/3	PANELBOARD LP41	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD CP41	10#3/0 + 2#3G - (2) 2-1/2°C	GROUND TRANSFORMER CASE VIA 1F10-34°C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50° x 41.50°	
TOP11	112.5	480	175/3	PANELBOARD OL11	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD OP11	10#3/0 + 2#3G - (2) 2-1/2°C	GROUND TRANSFORMER CASE VIA 1F10-34°C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50° x 41.50°	
TOP12	112.5	480	175/3	PANELBOARD OL12	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD OP12	10#3/0 + 2#3G - (2) 2-1/2°C	GROUND TRANSFORMER CASE VIA 1#10-3H*C TO NEAREST AVALABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50° x 41.50°	
TOP21	112.5	480	175/3	PANELBOARD 0L21	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD OP21	10#3/0 + 2#3G - (2) 2-1/2°C	GROUND TRANSFORMER CASE VIA 11/10-34°C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50° x 41.50°	
TOP22	112.5	480	175/3	PANELBOARD 0L22	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD OP22	10#3/0 + 2#3G - (2) 2-1/2°C	GROUND TRANSFORMER CASE VIA 1F10-34°C TO NEAREST AVAILABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50° x 41.50°	
TOP31	112.5	480	175/3	PANELBOARD 0L31	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD OP31	10#3/0 + 2#3G - (2) 2-1/2*C	GROUND TRANSFORMER CASE VIA 1#10-34°C TO NEAREST AVALABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50° x 41.50°	
TOP32	112.5	480	175/3	PANELBOARD 0L32	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD OP32	10#3/0 + 2#3G - (2) 2-1/2*C	GROUND TRANSFORMER CASE VIA 1#10-34°C TO NEAREST AVALABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50° x 41.50°	
TOP41	112.5	480	175/3	PANELBOARD 0L41	3#20 + 1#6G - 2°C	120/208	400/3	PANELBOARD OP41	10#3/0 + 2#3G - (2) 2-1/2°C	GROUND TRANSFORMER CASE VIA 1#10-34°C TO NEAREST AVALABLE EFFECTIVELY GROUNDED WATER PIPE, STRUCTURAL STEEL, AND/OR GROUND ROD AS PER NEC 250.30.	27.50° x 41.50°	



Section 3 Schematic Design Documents

3.6 Schematic Design Documents

3.6.2 Schematic Design Narrative - Dual Language PK-8 BASIS OF DESIGN

Building & Design Codes

The new 61,051 gsf Dual Language PK-8 School is designed in accordance with the 2015 International Building Code and the 2012 International Energy Conservation Code. The building is in compliance with the 2012 Rhode Island Fire Safety Code utilizing NFPA 1 and 101. The construction classification will be type 1B fully protected use group E. The building is 3 stories and fully sprinklered. The new school serves 447 students in grades PK-8.

Site Design Conditions

The site is located at the the site of the existing Central Falls High School, at 24 Summer Street in Central Falls, Rhode Island. The site is approximately 2.1 acres. The site is served by Summer Street along the north side, and Illinois Street along the west side. Commercial, retail and residential properties abut the site on all sides.

The site currently supports the existing Central Falls High School. The site is generally flat, with a slope and retaining wall on the east side that abuts a high-density residential building. The existing school fills a majority of the site, leaving minimal space for landscape or hardscape. The proposed 3 story building will reduce the built footprint on the site. The existing entries onto the property at Summer Street and Illinois Street will be used for controlled access with the proposed solution.

Stormwater management provisions including site swale, drainage design and water collection systems including rain gardens are included in the project. Outdoor science labs and learning areas are incorporated into the site plan design. Natural landscape areas, including new rain gardens with water storage capacity are provided on the site. Bicycle storage areas and electric vehicle charging stations are included in the site design.

Building Design Conditions

The building is 3 story high designed to meet a projected enrollment of 447 students in grades PK-8. The overall square footage is 61,051 square feet which includes 18 general classrooms and 2 general science labs, Learning Commons, one full size gymnasium/cafetorium/stage, and art classrooms.

The school is designed for a Dual Language program, which is defined

by the District, as utilizing a pair of classroom per grade that are connected with an operable partition.

The school contains a safe and secure main entry area flanked by administration, guidance, student support services, and dean's offices. Special Educational educational classrooms and support rooms are evenly distributed throughout the new school building.

The school is designed to meet Northeast Collaborative for High Performance Schools version 4.0 green school standards. The school has the opportunity to receive an additional 2% to 4% additional reimbursement funds by demonstrating 30% to 50% energy and water reduction beyond code (see chart below).

Additional Reimbursement Funds	Reduction from RI Code (Anchored to IECC 2009)	Reduction from NE-CHPS (Based upon IECC 2012)
2%	30%	18% (11 points)
3%	40%	30% (18 points)
4%	50%	42%(22 points)

The District and Design Team is currently establishing the Energy Performance level for the project. The project is eligible to receive 12 to 40 points within the NE-CHPS Reduction Requirement, based upon IECC 2012, is equivalent to 20% up to 100% (see chart below).

Points	NE-CHPS Reduction Requirement (IECC 2012)	zEPI Equivalent	Reduction from RI Code (Anchored to IECC 2009)
Prerequisite	10% minimum reduction	51	23.5%
12 points	20% minimum reduction	46	32%
18 points	30% minimum reduction	40	40.5%
22 points	40% minimum reduction	34	49%
25 points	50% minimum reduction	29	57.5%
28 points	60% minimum reduction	23	66%
31 points	70% minimum reduction	17	74.5%
34 points	80% minimum reduction	11	83%
37 points	90% minimum reduction	6	91.5%
40 points	100% minimum reduction (zero net-energy school)	0	100%

Thermal Insulation: Building Envelope

Window Systems

Window systems will be energy enhanced thermally broken aluminum curtainwall and aluminum storefront and windows with both fixed and operable frames. Special thermal break material is provided to meet the required thermal performance and other criteria:

Fixed Window Frames:

Air resistance: 6.24psf Water resistance: 15.00psf Uniform Structural Loading: 150psf Condensation Resistance: 75 (frame) & 67 (Glass)

Operable Window Frames: Air resistance: 6.24psf Water resistance: 15.00psf Uniform Structural Loading: 150psf Condensation Resistance: 55

Door Systems

Door systems are thermally broken aluminum storefront and curtainwall systems with the performance requirements outlined above. These systems have insulated aluminum doors with weatherstripping. Interior vestibules are provided at main and secondary building entrances. Egress only door system are thermally broken hollow metal frames, insulated hollow metal doors (16ga.) Complete with semi-rigid fiberglass insulation core, U Value .48.

Glazing

Exterior glazing is 1" Low-E clear glass outer layer consisting of 1/4" thick heat-strengthened glass with Low-E sputter coating on the number 2 surface equal to PPG Solarban 60. The inner glazing layer is 1/4" thick clear heat-strengthened glass with an air space of 1/2" thickness. The air space is filled with 90% argon gas and 10% air. The 1" glazing assembly has the following performance characteristics:

Visible Transmittance: 72% Solar Heat Gain Coefficient: 0.40 Solar Blockage: 59% Reflectance (interior): 12% Reflectance (exterior): 11% U Value (winter): 0.30

Window Shades

Window Shades will be provided in all educational classroom spaces. The shade system are roller shades made with aluminum alloy 6063-T5 alloy with a wall thickness of 0.065 inch. Shade fabric is 63% PVC coated fiberglass and 37% fiberglass yarn woven into a 2 inch by 2 inch nondirectional basket weave with Micro-ban Protection. Shades will have a 5% openness factor.

Wall Insulation and Assembly

Exterior wall assembly consists of simulated wood laminated rainscreen cladding anchored to a metal support system which accounts for an air space in front of the air and vapor barrier adhered to a premanufactured "nail-base." The nail-base assembly consists of 5/8" plywood, laminated to 2 inches of rigid insulation. 1/1/2" spray foam insulation is placed on the inside the exterior metal studs @ 16 inches on center, and 5/8" interior gypsum wallboard. The overall U value is 0.055. Spray Foam Insulation to have the following properties:

Density: 2.2 lbs/cf

Compressive Strength: 26lbs/square inch Water Absorption: 1.6% by volume Water Vapor Transmittance: (2 inch thickness): 0.70 perms

Roof System

Overall roof assembly is 6.75 inches with 6 inches for an R-value of 36. The overall roof thermal performance is U0.026. Roofing system to provide coverage for maximum wind speed of 105 mph. The roofing manufacturer to provide a 25 year warranty for product quality, performance, and workmanship. Roofing system to be 60 Mil thick, PVC mechanically anchored sheet roofing system. System to obtain Fire Hazard "Class A" as described by the Underwriters Laboratory. Wind Loading shall conform to the 2012 IBC with State of Rhode Island amendments for wind speed and gust requirements.

Insulation will be polyisocyanurate foam insulation manufactured with HCFC-free blowing agent with LTTR R value of 5.6 per inch with minimum thickness of 6 inches and the following properties:

Density: 2.0 pounds per cubic foot Compressive Strength: 20 psi Moisture Vapor Transmittance: Less than 1 perm Water Absorption: Less than 1 percent per volume

Overlayment recovery board is 5/8 inch thick, Class 1, non-structural glass mat faced, noncombustible water-resistant treated gypsum core panel. Vapor barrier is 10mil thick low-density polyethylene vapor barrier/air barrier.

Natural Daylighting and View

A two-story interconnected gymnasium/cafeteria/stage space has been designed with curtainwall on the west side , flooding the space with natural light.

STRUCTURAL SYSTEMS & EARTHQUAKE COMPLIANCE

Building Description

The new building is intended to follow the following:

- No basement spaces.
- The roofs will be constructed with metal deck and structural steel/ joists/trusses pitched to internal roof drains. Roof pitch shall not be less than 1/4" per foot. Tapered insulation may be required in some locations.
- The floor levels will consist of steel beams and girders supporting a concrete slab-on-composite metal deck.
- Elevator shafts will be constructed with CMU. Stairwells will be constructed with gypsum board and/or glass.

Building Codes and Standards

All structural design criteria for the building will be based on the latest building codes and standards listed below, and by criteria specified by the owner and architect.

- Rhode Island Building Code: 2018 International Building Code (IBC) with state amendments and referenced standards.
- American Institute of Steel Construction (AISC), Specifications and its Code of Standard Practice.
- American Concrete Institute Building Code Requirements for Reinforced Concrete, ACI 318.
- American Concrete Institute Building Code Requirements for Concrete Masonry Structures, ACI 530 and ACI 530.1.
- Steel Joist Institute (SJI) and Steel Deck Institute (SDI) design standards.
- AISC Design Guide 11 Floor Vibrations for Human Activity.

Construction Materials

Concrete*:

Typical, U.N.O.:	4000 PSI 3/4"	aggregate	0.45 Max W/C Ratio
Slab-on-deck:	3000 PSI 3/4"	aggregate	0.48 Max W/C Ratio

Concrete shall be normal-weight except that slabs-on-metal-deck shall be lightweight.

Interior slabs-on-grade have a Moisture Vapor Reduction Admixture (Barrier One).

*Exterior Concrete shall be air-entrained. Lightweight concrete used for slabs-on-metal deck shall also be air-entrained.

Concrete Reinforcing:

Deformed Bars	ASTM A615 or A706, GR. 60
Welded Wire Fabric	ASTM A185

Masonry materials:

Compressive strength (f'm)	1,900 psi
Mortar	ASTM C270 Type M or S (load-bearing) or N (non
	load-bearing)
Deformed bars	ASTM A615 or A706, Grade 60

Grout compressive strength Joint Reinforcement ASTM 6270 type in 613 (10dd-bearing) of 14 (nor load-bearing) ASTM A615 or A706, Grade 60 2,500 psi ASTM A1064, Extra Heavy Duty Ladder Type, Hot-dipped galvanized, 3/16" side rods & 9 ga. cross rods

Steel Members**:

Structural Steel	A572 or A992 GR. 50	FY=50KSI
Typical Plates and Angles	ASTM A36	FY=36KSI
Structural Tubing (rectangular)	ASTM A500, GR. B	FY=46KSI
High Strength Bolts	ASTM F3125 (GR. A325 Type I)	FY=92KSI
Drill & Epoxy Anchors	A449	FY=92KSI
Cast-In-Place Anchor Rods	F1554	FY=36KSI

** All exterior steel framing, connections, and components shall be hotdipped galvanized.

Design Criteria

Building Risk Category (IBC Table 1604.5)

Risk Category III (Group E occupancy with occupant load > 250). For the purposes of this narrative, the building was not considered an emergency or recovery shelter.

Dead Load (DL)

The dead load includes the weight of structure, structural components, equipment, machinery, conduits, piping, ducts, insulation and any item permanently attached to or supported by the structure. Self-weight of framing will be included in calculations/models and is not listed below.

Uniform floor loads: Concrete on Deck (light-weight concrete), typical 18 ga. Composite Metal Floor Deck Concrete Ponding Floor Finishes, typical Floor Finishes – tiled areas Drop Ceiling MEP Allowance (typical)	42 psf (3.25" on 2" deck = 5.25") 2.5 psf 5 psf 5 psf 10 psf 2 psf 5 psf		
Additional floor loads (where applicable): Elevated seating construction Weight of CMU partitions and operable partitions shall be included.			
Uniform roof loads: Roof Deck Roof Membrane ½" Recovery Board Polyiso Insulation (say 8" average) Drop Ceiling MEP Allowance (typical)	3 psf 1 psf 3 psf 3 psf 2 psf 5 psf		
Additional roof loads (if applicable) Solar arrays	10 psf		
Uniform roof terrace loads: Concrete on Deck (light-weight concrete), typical 18 ga. Composite Metal Floor Deck Concrete Ponding Roof Membrane ½" Recovery Board Polyiso Insulation (say 8" average) Drop Ceiling MEP Allowance (typical)	42 psf (3.25" on 2" deck = 5.25") 2.5 psf 5 psf 1 psf 3 psf 3 psf 2 psf 5 psf		

Live Load (LL)

Live loads are loads produced by the use and occupancy of the building or other structure that may or may not exist at any given time. Live loads do not include wind, snow, or seismic loads.

Uniform Floor Live Loads:	
Slab-on-grade*	250 psf
Classrooms/Offices (50 psf** + 15 psf partitions)	65 psf
and library reading rooms	
Corridors above 1st floor	80 psf
1st floor corridors, flexible spaces, open classrooms	100 psf
labs, media center, auditorium seating, and stairs,	
roof terrace.	
Auditorium stage, mechanical rooms***,	150 psf
and storage	

**Note that RI Building code lists 40 psf for classrooms, but use 50 psf for simplicity/flexibility between classroom and office/conference spaces.

***Or weight of actual equipment, whichever is greater. See building code for minimum concentrated load requirements.

Live load reductions shall be used whenever possible in accordance with the building code.

Snow Load (SL)

Snow load shall be as specified in the International Building Code (IBC) per the following criteria:

Ground snow load (Pg)	30 psf
Minimum Flat Roof Snow Load (Pf)	30 psf (RIBC Table 1608.1)
Terrain category	В
Exposure category	Partially Exposed
Exposure factor (Ce)	1.0
Thermal factor (Ct)	1.0
Importance factor (I)	1.1

Drifting and sliding snow shall be considered in design per the IBC.

Wind Load (WL)

Wind load shall be as specified in the International Building Code (IBC) per the following criteria:

Basic (ultimate) wind speed (v): Exposure category Basic Velocity pressure (q) Pressure coefficient (Cp) 137 mph B .00256*Kd*Kz*Kzt*I*V2 Refer to code

Seismic Load (EQ)

Seismic load shall be as specified in the International Building Code (IBC) per the following criteria:

	Spectral response acceleration at .2 sec. (Ss) Spectral response acceleration at 1 sec. (S1) Importance factor (I) Site Class Site Coefficient	0.178 0.062 1.25 D (assumed)
	Fa Fv Max considered spectral response acceleration	1.60 2.40
	Max considered spectral response acceleration	
	Sms	0.285
	Sm1	0.149
Design s	spectral response acceleration	
	Sds Sd1 Seismic Design Category	0.191 .099 B (assumed)

Structural systems shall be "Steel Systems not specifically detailed for seismic resistance" (R = 3.0).

Movable/Operable Partitions

Loading from movable/operable partitions shall be included in the structural design where applicable (see plans). Deflection criteria of these component will be taken into account when designing supporting members.

Floor Vibrations

All floor designs shall be checked for vibrations due to human activity per AISC Design Guide 11.

Design Methodology and Load Combinations

Loads shall be combined per provisions of either 2018 IBC or ASCE 7-16 as applicable for allowable strength design (ASD) or load resistance factor design (LRFD). In general, ASD will be used for all systems except for reinforced concrete and reinforced masonry (slender wall systems). LRFD shall be used for reinforced concrete and reinforced masonry.

Foundations

Generally, foundation systems are assumed to consist of shallow square footings for columns and a continuous perimeter foundation wall. Insulation shall be provided around the perimeter foundation wall as specified by the architect. Foundations subject to frost shall extend to at least 4'-0" below lowest adjacent grade. Some interior foundation walls will be required around changes in slab elevations.

Slab on Grade

Ground floor construction will be slab-on-grade. The concrete slab on

grade shall generally be 5" thick, 4,000 psi concrete, reinforced with welded wire fabric. The slab shall be thickened/haunched locally and/ or reinforced with deformed bars where required, such as supporting heavy equipment or stair framing. A 15 mil vapor barrier shall be provided below the slab on grade. Insulation shall be added below the slab where required by code. Saw cut contraction joints shall be spaced at 15'-0" on-center, maximum. Floor finishes shall be in accordance with architectural requirements.

Floor Structure

The floor framing will generally consist of steel beams, steel girders, and wide-flanged columns. Floor framing shall be composite with the floor slabs, unless non-composite is more economical in some locations (e.g. short spans, large openings each side of beam, etc.). Beam spacing will be 10'-0" on-center maximum, tighter beam spacings may be required where live loads exceed 100 psf. The deck will consist of a 5 1/4" (total thickness) of light-weight concrete on 18 gauge, 2" deep galvanized composite metal deck. The light-weight concrete shall be air-entrained 4%-7%. Structural elements will be fireproofed as needed to meet ratings required by code.

The concrete on metal deck shall be typically reinforced with welded wire fabric. Deformed bars will be provided where required to support heavy equipment, CMU partitions, etc.

Floor members shall be designed for minimum deflection requirements of L/360 (live load) and L/240 (total load), along with analysis for floor vibrations per AISC Design Guide 11. Tighter deflection requirements may be required at movable/operable partitions.

Roof Structure

The roof framing will generally consist of steel joists, wide-flanged girders, and HSS or wide-flanged steel columns. Wide-flanged steel beams shall be used in lieu of joists at column grid lines and where needed for loading (such as at mechanical equipment screens and other areas with concrete on the roof).

Joist/beam spacing will typically be approximately 6'-0'' on-center with tighter spacing adjacent to roof steps, around equipment, etc. due to snow drifts (where applicable). The roof framing will be sloped to internal roof drains to minimize tapered insulation with a roof slope of at least 1/4'' per foot. Tapered insulation may be required in some locations.

The roof deck will consist generally of 20 gauge 1-1/2" Type B galvanized metal deck. Thicker decking or 3" deep roof deck may be used where beam spacings larger than 6'-0" are used. Roof hatches (or similar) will be provided as required for the installation, access, and removal of equipment. Composite metal deck with lightweight concrete shall be provided below rooftop equipment where necessary for acoustics.

Roof members shall be designed for minimum deflection requirements of L/240 (live/snow load) and L/180 (total load). Tighter deflection requirements may be required at movable/operable partitions and will be coordinated with manufacturer's requirements.

The roof structure will have a mix of overhangs and parapets. Minor overhangs will be achieved with bent plates where possible, larger overhangs may require structural out-riggers. Depending on wall construction parapets may be a continuation of the wall stud if located proud of the framing, if inset, additional structural support stubs may be cantilevered from the roof framing.

Lateral Force Resisting Systems

The lateral load resisting system will generally consist of braced frames comprised of hollow structural steel sections, and moment frames where braces interfere with the aesthetics or function of the surrounding space or walls. Moment frames may utilize HSS columns or W-shapes where structurally more efficient. The concrete floor decks and metal roof decks will serve as horizontal diaphragms.

Exterior Wall Construction

Light-gauge metal framing (designed by others) or CMU will generally provide back-up to exterior walls systems, but utilization of the building columns (and installation of wall girts) may be required in some locations. These elements will be designed for component & cladding wind loads along with vertical loads. Wall girts, where needed, shall be HSS sections.

Wall members shall be designed for a minimum out-of-plane deflection requirement of L/240, unless more stringent criteria is provided by the wall system manufacturer.

MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION FIRE PROTECTION

The following is the Fire Protection system narrative, which defines the scope of work and capacities of the Fire Protection system as well as the Basis of Design.

A. Codes

All work installed under Section 210000 shall comply with the MA Building Code and all state, county, and federal codes, laws, statutes, and authorities having jurisdiction.

B. Design Intent

All work is new and consists of furnishing all materials, equipment, labor, transportation, facilities, and all operations and adjustments required for the complete and operating installation of the Fire Protection work and all items incidental thereto, including commissioning and testing.

C. General

1. In accordance with the provisions of the Massachusetts Building Code, a school building of greater than 12,000 s.f. must be protected with an automatic sprinkler system.

D. Description

1. The building will be served by a new 8-inch fire service, Double check valve assembly, wet alarm valve complete with electric bell, and fire department connection meeting local thread standards.

2. System will be an automatic sprinkler system with control valve assemblies to limit the sprinkler area controlled to less than 52,000 s.f. as required by NFPA 13-2013.

3. Control valve assemblies shall consist of a supervised shutoff valve, check valve, flow switch and test connection with drain.

4. All areas of the building, including all finished and unfinished spaces and combustible concealed spaces will be sprinklered.

5. All sprinkler heads will be quick response, pendent in hung ceiling areas and upright in unfinished and spaces without ceilings.

E. Basis of Design

1. The mechanical rooms, kitchen, science classrooms, and storage rooms are considered Ordinary Hazard Group 1; stage is considered Ordinary Hazard Group 2; all other areas are considered light hazard.

2. Required Design Densities:	
Light Hazard Areas	0.10 GPM over 1,500 s.f.
Ordinary Hazard Group 1	0.15 GPM over 1,500 s.f.
Ordinary Hazard Group 2	0.20 GPM over 1,500 s.f.

3. Sprinkler spacing (max.):	
Light Hazard Areas:	225 s.f.
Ordinary Hazard Areas:	130 s.f.

F. Piping

Sprinkler piping 2 in. and smaller shall be ASTM A-53, Schedule 40 black steel pipe. Sprinkler/standpipe piping 3 in. and larger shall be ASTM A-135, Schedule 10 black steel pipe.

G. Fittings

Fittings on fire service piping, 2 1/2 in. and larger, shall be Victaulic Fire Lock Ductile Iron Fittings conforming to ASTM A-536 with integral grooved shoulder and back stop lugs and grooved ends for use with Style 009-EZ or Style 005 couplings. Branch line fittings shall be welded or shall be Victaulic 920/920N Mechanical Tees. Schedule 10 pipe shall be roll grooved. Schedule 40 pipe, where used with mechanical couplings, shall be roll grooved and shall be threaded where used with screwed fittings. Fittings for threaded piping shall be malleable iron screwed sprinkler fittings.

H. Joints

Threaded pipe joints shall have an approved thread compound applied on male threads only. Teflon tape shall be used for threads on sprinkler heads. Joints on piping, 2 1/2 in. and larger, shall be made up with Victaulic, or equal, Fire Lock Style 005, rigid coupling of ductile iron and pressure responsive gasket system for wet sprinkler system as recommended by manufacturer.

I. Double Check Valve Assembly

1. Double check valve assembly shall be MA State approved, U.L./F.M. approved, with iron body bronze mounted construction complete with supervised OS & Y gate valves and test cocks. Furnish two spare sets of gaskets and repair kits.

2.Double check valve detector assembly shall be of one of the following:

- a. Watts Series
- b. Wilkins
- c. Conbraco Series

PLUMBING

The following is the Plumbing system narrative, which defines the scope of work and capacities of the Plumbing system as well as the Basis of Design.

A. Codes

All work installed under Section 220000 shall comply with the MA Building Code, MA Plumbing Code and all state, county, and federal codes, laws, statutes, and authorities having jurisdiction.

B. Design Intent

All work is new and consists of furnishing all materials, equipment, labor, transportation, facilities, and all operations and adjustments required for the complete and operating installation of the Plumbing work and all items incidental thereto, including commissioning and testing.

C. General

1. The Plumbing Systems that will serve the project are cold water, hot water, tepid water, sanitary waste and vent system, grease waste system and storm drain system.

2. The building will be serviced by Municipal water and Municipal sewer system.

3. All Plumbing in the building will conform to Accessibility codes and to water conserving sections of the Plumbing Code.

D. Drainage System

1. Soil, waste, and vent piping system is provided to connect to all fixtures and equipment. System runs from 10 feet outside building and terminates with stack vents through the roof.

2. A separate grease waste system starting with connection to an exterior grease interceptor running thru the Kitchen and Servery area fixtures and terminating with a vent terminal through the roof. Point of use grease interceptors are to be provided at grease laden kitchen fixtures per the plumbing code.

3. Storm drainage system is provided to drain all roofs with roof drains piped through the building to a point 10 feet outside the building.

4. Drainage system piping will be service weight cast iron piping; hub and spigot with gaskets for below grade; no hub with gaskets, bands and clamps for above grade 2 in. and larger. Waste and vent piping 1-1/2 in. and smaller will be type 'L' copper.

E. Water System

1. New 6-inch domestic water service from the municipal water system will be provided for the New Building. A meter and backflow preventer will be provided.

2. Cold water distribution main is provided. Non-freeze wall hydrants with integral back flow preventers are provided along the exterior of the building.

3. (2) Non-potable water systems will be provided for science classrooms, with a dedicated electric water heater, recirculation pump, & mixing valve.

4. A pump will re-circulate hot water from the piping system. Water temperature will be 120 deg. to serve general use fixtures. A 140 deg. F hot water will be supplied to the kitchen dishwashing equipment.

5. Water piping will be type 'L' copper with wrot copper sweat fittings, silver solder or press-fit system. All piping will be insulated with 1 in. thick high-density fiberglass.

F. Fixtures

1. Furnish and install all fixtures, including supports, connections, fittings, and any incidentals to make a complete installation.

2. Fixtures shall be the manufacturer's guaranteed label trademark indicating first quality. All acid resisting enameled ware shall bear the manufacturer's symbol signifying acid resisting material.

3. Vitreous china and acid resisting enameled fixtures, including stops, supplies and traps shall be of one manufacturer by Kohler, American Standard, or TOTO. Supports shall be Zurn, Smith or Watts. All fixtures shall be white. Faucets shall be American Standard, T&S or Chicago.

4. Fixtures shall be as scheduled on drawings.

Water Closet: High efficiency toilet, 1.1 gallon per flush, wall hung, vitreous china, siphon jet. Sensor operated 1.1 gallon per flush-flush valve.

Urinal: High efficiency 0.125 gallon per flush urinal, wall hung, vitreous china. Sensor operated 0.125 gallon per flush-flush valve.

Lavatory: Wall hung/countertop ADA lavatory with 0.35 GPM mixing faucet with sensor programmed for 10 second run-time cycle.

Shower: Tile shower by others. Shower head with 1.5 GPM flow rate, with Shower mixing valve, and Floor drain.

Sink: ADA stainless steel countertop sink 1.5 GPM faucet and aerator.

Drinking Fountain/ Bottle Filler: Hi-low wall mounted electric water cooler, stainless steel basin with bottle filling stations.

Janitor Sink: 30 x 30 Terrazzo mop receptor

G. Drains

Drains are cast iron, caulked outlets, nickaloy strainers, and in waterproofed areas and roofs shall have galvanized iron clamping rings with 6 lb. lead flashings to bond 9 in. in all directions. Drains shall be Smith, Zurn or Watts.

H. Valves

Locate all valves so as to isolate all parts of the system. Shutoff valves 3 in. and smaller shall be ball valves, solder end or screwed, Apollo, Watts or Milwaukee.

I. Insulation

All water piping shall be insulated with snap-on fiberglass insulation Type ASJ-SSL, equal to Johns Manville Micro-Lok HP.

J. Cleanouts

1. Cleanouts shall be full size up to 4 in. threaded bronze plugs located as indicated on the drawings and/or where required in soil and waste pipes.

2. Cleanouts for Special Waste System shall be Zurn #Z9A-C04 polypropylene cleanout plug with Zurn #ZANB-1463-VP nickel bronze scoriated floor access cover.

K. Access Doors

Furnish access doors for access to all concealed parts of the plumbing system that require accessibility. Coordinate types and locations with the Architect.

L. Water Heaters

1. Domestic water heating will be multiple electric storage type water heaters. System is to be equipped with thermostatically controlled mixing devices to control water temperature (120 F) to the fixtures, and

140 F to required Kitchen Equipment where required.

2. Dedicated water heating will be provided for Non-Potable water, (2) electric heat pump water heater per looped system. System is to be equipped with thermostatically controlled mixing devices to control water temperature (120 F) to the fixtures.

HVAC SYSTEM

A. Design Criteria

1. Interior environmental conditions will be based on Massachusetts Code 780 CMR 12 and ASHRAE Standard 55-2010.

2. Ventilation of spaces will be designed to meet or exceed the requirements of the latest edition of the Massachusetts State Building Code, the ICC International Mechanical Code and ASHRAE Standard 62, Ventilation for Acceptable Indoor Air Quality.

3. HVAC equipment will be selected to comply with the 2018 edition of the International Energy Conservation Code and ASHRAE 90.1-2013.

4. The HVAC systems will be designed to meet the acoustical requirements of ANSI S12.60-2002. The American National Standards Institute developed this standard specification and design guideline to help eliminate acoustical problems in the design stage of a project. Essentially, the steady background noise level in core learning areas should not exceed an NC of 35.

B. Heating and Cooling System

1. Heating and cooling will be provided by an all-electric heat pump system. This system will be a hybrid of air source heat pumps and ground source heat pumps.

2. The air source heat pump systems will be comprised of Variable Refrigerant Flow (VRF) systems and Packaged Air Source Heat Pump Energy Recovery Units (ERU).

3. The air source and ground source VRF systems shall be made up of indoor evaporators, branch control boxes (BC) and roof or grade mounted air-cooled condensers. The system utilizes refrigerant as the heat/cooling medium. The refrigerant shall flow from the condensers to the branch control boxes. The branch control boxes are used as control devices directing the liquid refrigerant or gas refrigerant to the indoor evaporators depending on the space heating or cooling needs. This type of VRF system is known as a heat-recovery system. The branch control boxes can take the heat recovered from the cooling zone and use it to warm up the room in heating mode. This way, the compressor cooling or heating requirements are reduced, which saves energy.

4. The air source and ground source heat pump ERUs shall be used to provide minimum outdoor air ventilation to all spaces utilizing a VRF system for heating and cooling. The ERU shall be comprised of supply fan, exhaust fan, desiccant wheel or fixed plate energy recover exchanger, and a DX heat pump w/hot gas reheat. The ERU will either preheat or precool/dehumidify the incoming ventilation air before being distributed to the spaces. The ventilation air will be distributed to the space via galvanized ductwork system. Exposed ductwork shall not be insulated. Ductwork enclosed in chases and above concealed ceilings shall be insulated with R-5 duct wrap.

C. Air Conditioning System

1. As part of the base design the following spaces will be provided with air conditioning:

- Administration area including Principal's Office, Assistant Principal's Office, School Psychologist's Office, Counselor's Office, Adjustment Counselor's Office, Pre-school Coordinator's Office, Nurse's Office and conference rooms.
- Teacher's planning/work rooms.
- Multipurpose rooms.
- Sped PT/OT spaces.
- Library/Media center.
- Gymnasium / cafeteria / stage
- Classrooms.
- Music/performing arts areas.
- Kitchen

D. Summary of HVAC Systems

1. Classrooms, Multipurpose Rooms, Music Rooms, and Teachers Workrooms.

a. VRF system with decoupled ventilation from packaged rooftop air source heat pump energy recovery units (ERUs). The energy recovery ventilation units will supply the classrooms with tempered air via a system of ductwork. Energy recovery rooftop units are an effective way of reducing the overall energy consumption of a building. Energy recovery rooftop units will be furnished with the following components:

- Double-wall insulated casings.
- Supply and exhaust fans.
- MERV 13 air filters for superior indoor air quality.
- Energy recovery wheel or fixed plate.
- DX heating/cooling coil.
- Hot gas reheat coil.
- Condensing unit.

- Pre-heat electric coil.
- Variable frequency drives.

b. Each classroom will be furnished with two (2) indoor evaporators. Small type spaces shall be furnished with one (1) indoor evaporator. The evaporators shall maintain space setpoint temperatures independently of the ERUs. This air circulates throughout the rooms and is drawn back up to the return grille of the evaporators. This air circulation produces even and consistent temperatures throughout the room.

c. A portion of the room air is exhausted to the outside as a relief for the primary air entering through the ERU units. This energy of the exhaust air leaving the classrooms is recovered at the energy recovery rooftop units.

d. The room thermostats control the operation of the evaporators to maintain space temperature setpoints.

e. The rooftop units will utilize the demand-controlled ventilation sequence of operation. This strategy permits the modulation of the outside air dampers and fan speed based on the level of CO2 in the space. CO2 sensors shall modulate the position of the terminal boxes located in the ventilation supply ductwork prior to discharge in the space.

2. Administration Area.

a. Air source VRF system with decoupled ventilation from packaged rooftop air source heat pump energy recovery units (ERUs). The energy recovery ventilation units will supply the spaces with tempered air via a system of ductwork. Energy recovery rooftop units will be furnished with the following components:

- Double-wall insulated casings.
- Supply and exhaust fans.
- MERV 13 air filters for superior indoor air quality.
- Energy recovery wheel or fixed plate.
- DX heating/cooling coil.
- Hot gas reheat coil.
- Condensing unit.
- Pre-heat electric coil.
- Variable frequency drives.

b. Each space will be furnished with an indoor evaporator(s). Smaller spaces shall be furnished with one (1) indoor evaporator. The evaporators shall maintain space setpoint temperatures independently of the ERUs. This air circulates throughout the rooms and is drawn back up to the return grille of the evaporators. This air circulation produces even and consistent temperatures throughout the room. c. A portion of the room air is exhausted to the outside as a relief for the primary air entering through the ERUs. This energy of the exhaust air leaving the classrooms is recovered at the energy recovery rooftop units.

d. The room thermostats control the operation of the evaporators to maintain space temperature setpoints.

e. The rooftop units will utilize the demand-controlled ventilation sequence of operation. This strategy permits the modulation of the outside air dampers and fan speed based on the level of CO2 in the space. CO2 sensors shall modulate the position of the terminal boxes located in the ventilation supply ductwork prior to discharge in the space.

3. Media Center and Cafeteria

a. Packaged rooftop air source heat pump units will supply these spaces with conditioned air. The conditioned air will be distributed via a system of ductwork and ceiling diffusers or sidewall high throw grilles. The roof top units will be furnished with the following components:

- Double-wall insulated casings.
- Supply and exhaust fans.
- MERV 13 air filters for superior indoor air quality.
- DX heating/cooling coil.
- Condensing unit.
- Hot gas reheat.
- Pre-heat electric coil.
- Variable frequency drives.

b. A portion of the room air is exhausted to the outside as a relief for the primary air entering through the indoor air handling units.

c. The rooftop units will utilize the demand-controlled ventilation sequence of operation. This strategy permits the modulation of the outside air dampers and fan speed based on the level of CO2 in the space.

d. Space temperature will be sensed with remote space mounted sensors and controlled through the building management system.

4. Gymnasium and Stage

a. Packaged rooftop air source heat pump units will supply these spaces with conditioned air. The conditioned air will be distributed via a system of ductwork and ceiling diffusers or sidewall high throw grilles. The roof top units will be furnished with the following components:

- Double-wall insulated casings.
- Supply and exhaust fans.

- MERV 13 air filters for superior indoor air quality.
- DX heating/cooling coil.
- Condensing unit.
- Hot gas reheat.
- Pre-heat electric coil.
- Variable frequency drives.

b. A portion of the room air is exhausted to the outside as a relief for the primary air entering through the indoor air handling units.

c. The rooftop units will utilize the demand-controlled ventilation sequence of operation. This strategy permits the modulation of the outside air dampers and fan speed based on the level of CO2 in the space.

d. Space temperature will be sensed with remote space mounted sensors and controlled through the building management system.

5. Kitchen

a. The kitchen areas will be handled by the cafeteria ERV, The ERV, thru controls, will provide tempered make-up air to the kitchen in order to offset the amount of air being exhausted through the kitchen hood.

b. The kitchen hood exhaust system shall be provided with a Mellink kitchen hood exhaust control system, which is designed to vary the speed of the kitchen hood exhaust fan in response to the intensity of the cooking operations taking place. Essentially, the fan will operate at higher speeds when higher heat and smoke producing cooking is taking place. The Mellink system will also modulate the outside air damper and fan speed of the make-up air unit.

E. Controls

1. Griffith & Vary, Inc. recommends this facility be furnished with a Building Management System. This system will feature full Digital Direct Controls (DDC). This system will be capable of controlling the following:

a. Space temperature set point.

b. Start and stop of all energy recovery rooftop units and air-handling units.

c. Schedule occupied/unoccupied times for various spaces.

d. Optimization of plant efficiency.

e. Monitoring of mechanical equipment and indication of any alarms, which may result from equipment failures.

2. To save energy required to heat or cool outdoor air, carbon dioxide sensors will be employed in the gymnasium, auditorium, and Student Commons to allow a reduction of outdoor air during periods of low occupancy and motion sensors will also be utilized to allow closure of outdoor air dampers when assembly areas are unoccupied. Classrooms will also have occupancy sensors to modulate dampers in the supply air duct branches as a means of saving energy during periods when the classrooms are unoccupied.

ELECTRICAL SYSTEMS

A. Electric Service:

1. The building will be provided with an electric service via a pad mounted transformer located on the site as provided by the electric utility company. Primary service conduits in concrete duct bank will be provided from the electric utility pole to the transformer via electric utility company standard manholes. Secondary service feeders and conduits in concrete duct bank will be provided from the transformer to the switchboard. The electric utility company meter will be mounted on the transformer.

2. The building fire pump electric service will be provided via the pad mounted transformer located on site as provided by the electric utility company. Secondary service feeders and conduits in concrete duct bank will be provided from the transformer to the fire pump.

B. Telephone Service:

1. Telephone service (2) 4" conduits will be provided from a utility pole to the building demarcation point (MDF Room).

C. Cable TV Service:

1. Cable TV service (2) 4" conduits will be provided from a utility pole to the building demarcation point (MDF Room).

D. Power Distribution:

Preliminary load calculations indicate that the switchboard will be rated at 3500 amperes at 277/480 volt, three phase, four wire. The switchboard will be provided with a surge protection device. Switchboard distribution sections will feed 277/480 volt panelboards and major Mechanical and Plumbing equipment. Dry-type transformers will be provided to distribute 120/208 volt power for branch circuit panelboards and the Kitchen panelboards. One of the kitchen panelboards will be provided with a shunt trip circuit breaker which will trip if fire suppression under hoods is initiated, shutting down all circuits under hoods. Panelboards with surge protection devices for computers will be provided, fed from computer grade K-rated transformers. Zero sequence harmonic filters connected to the computer panelboards will be provided to reduce neutral currents. Shops with equipment will be provided with panelboards including shunt trip main circuit breakers and mushroom type shut off switches which can be pushed to shut down power to the panelboards in event of an emergency. Other shops will be provided with dedicated panelboards.

E. Emergency Power System:

1. A diesel fuel generator with a sound attenuated, weatherproof enclosure will be provided. Preliminary load calculations indicate that the generator will be rated at 700kW at 277/480 volt, three phase, four wire. Two automatic transfer switches (ATS's) will be provided to separate emergency from optional standby loads. The emergency ATS and associated emergency panelboards will be located in two hour rated closets with two hour rated feeders. The optional standby ATS and associated panelboards will be located in normal electric rooms. Emergency panelboards will be provided with surge protection devices as required by the National Electrical Code. The generator will supply loads as selected by the Owner, as follows:

a. Lighting:

- Exterior building mounted lighting
- Mechanical Room lighting
- Electrical rooms lighting
- Egress Corridors and Stairs lighting
- IDF and MDF lighting
- Administration lighting
- Principal Office lighting
- Nurse lighting
- Health Instructor's Office lighting
- Elevator Machine Room
- Gymnasium lighting
- Custodians Office lighting
- Custodians Receiving and General Supply lighting
- Interior windowless spaces lighting
- Elevator lighting and pit lighting
- Kitchen lighting
- Dining lighting
- Toilet rooms lighting
- Make Air Unit lighting

b. Power:

- Fire Alarm System
- · Heating System including Roof Top Heat Pump Units for the

Gymnasium, Dining, Kitchen, and associated receptacles and controls, and Electric Unit Heaters

- Entire Kitchen
- Bidirectional amplifier
- Toilet Room Flush Valves and Sink Sensors
- Custodians Office, a receptacle at work station
- Custodians Receiving and General Supply, a receptacle at work station
- Health Instructor's Office, a receptacle at work station
- P.O.S. at Dining
- Gymnasium receptacles
- Dining, two receptacles
- Administration, a receptacle at work station
- Principal Office, a receptacle at work station
- Nurse, a receptacle at work station
- One Elevator power, Machine Room receptacle, pit receptacles, and dampers
- Water Heaters and Circ pumps
- Generator block heater and battery charger
- Technology equipment including:
 - IDF's each with two technology racks, two 120 volt, 20 amp, single phase receptacles per rack, includes telephone system.
 - MDF with technology racks, two 120 volt, 20 amp, single phase receptacles per rack, includes telephone system.
 - VRF unit for MDF and IDF's with condensate pump receptacle
 - Security System including plywood backboard security circuits, electrified door power supplies, and CCTV cameras (powered by switches in MDF and IDF's)
 - Plywood backboard clock circuits
- Security Office receptacles
- Fire Pump

F. Fire Alarm System:

An addressable manual and automatic fire alarm system will be provided. The fire alarm system will call the Fire Department or a Central Station via master box and/or telephone dialer. The fire alarm control panel will be located in the Main Electric Room or an area as so directed by the Fire Department. A remote annunciator panel will be provided in the Vestibule at the Main Lobby and where required by the Fire Department. A map of the entire building will be framed and mounted adjacent to the annunciator. Keyed boxes will be provided outside the Fire Department entries. Manual pull stations will be located within five feet (5') of each egress door and at the entrance to each Stair. Additional pull stations will be provided as required by Code. Heat detectors will be provided at the top of the elevator shaft and any other areas not provided with protection by the fire suppression system. Smoke detectors will be provided in the Corridors, in Stairs at each floor level, in the Elevator Machine Room, and at all elevator landings for early detection of smoke for recall. All devices including tamper, flow, pressure switches, and PIV, associated with the fire suppression system will be connected to the fire alarm system. Audio/visual appliances will be provided in the Corridors, Classrooms and all large areas such as the Gymnasium, Media Center, Auditorium, and Dining. Visual devices will be provided in Toilet and Conference rooms. Mechanical equipment shall be shut down by the fire alarm system as required by code.

G. Lighting:

1. Interior:

a. In general, highly efficient LED lighting fixtures will be provided throughout the building. Lighting levels will be in accordance with I.E.S. (Illuminating Engineering Society of North America) recommendations and the Massachusetts State Building Code energy requirements.

- 2. Exterior:
- a. Wall and pole mounted site lighting fixtures will be LED type.

H. Switching:

Lighting fixtures will be controlled primarily by room occupancy sensors and local low voltage dimmers. Lighting fixtures within primary side lighted areas will be daylight harvested via dimming drivers and photosensors. Lighting control relay panels will be provided to control exterior lighting and control interior lighting where time of day control is required.

I. Devices:

General convenience receptacles will be located throughout the building as

required. Receptacles provided in Toilet rooms, near sinks, the Kitchen, and outdoors will be provided with ground fault protection. Circuiting will be provided to Kitchen, Mechanical, and Plumbing equipment, and miscellaneous loads as required.

J. Bi-directional Amplifier System

A bi-directional amplifier with coaxial cabling above accessible ceilings will be

provided to amplify Fire Department and Police frequencies to ensure that there are no "dead" spots in the building for communication within building.

K. Technology Systems Back Box and Conduit System

A telephone/data/video/security/clock/speaker conduit system consisting of empty back boxes and conduit with pull strings to above

accessible ceilings will be provided for technology. Cable tray will be provided in MDF and IDF rooms for low voltage wiring.

L. PV System Conduit System

An empty conduit system with pull strings will be provided for the PV system consisting of photovoltaic panels and an inverter. Conduits will be provided from the switchboard to an exterior mounted disconnect switch for shutting down the PV system if need be. Conduits will also be provided from the exterior disconnect switch to the inverter and from the inverter to the roof.

M. Electric Vehicle Charging Stations

Electric vehicle charging stations will be provided.

N. Destratification Fans

Destratification fans will be provided in the Gymnasium.

O. Mass Notification System

A mass notification system will be provided including control panel, info alarm graphic annunciation and control, addressable speakers, and amber lenses.

P. Lightning Protection

The building will be provided with a lightning protection system made up of air terminals on the reaf with download conductors to around

terminals on the roof with downlead conductors to ground.

INFORMATION TECHNOLOGY & SECURITY SYSTEMS

271000 Structured Cabling

The new network design will support up to 10GHZ over Category 6A to the desktop.

Twenty-four pair multi-mode OM4 fiber and twelve pair single mode OS2 fiber will be provided from the MDF to every IDF in the building. A 25 pair cat5e riser cable shall be provided from the MDF to every IDF in the building.

Cat 6A cabling will be provided for data, voice, CCTV, and wireless access points (four data drops at each wireless access point location). Wireless access point outlet placements are intended to provide the capability for complete wireless coverage throughout the school. Each classroom will be wired with 2 data ports and a wall phone jack at the teacher location (category 6A cabling will be provided for the owner provided phone system (support for Voice over IP)). Classrooms will also have 2 data ports located at the back of the room.

The technology labs will be capable of accommodating an entire class of students (28). Network access in the technology labs will be wireless. Four ceiling data jacks for wireless access points shall be provided. In addition, the equipment specified below in 274000 for a typical classroom shall be included in each lab.

The MDF and IDFs shall have a shared ground and ground bus installed, bonding the rooms and all cable tray and racks.

272100 Network Switches

Network electronics (switches) and patch cords shall be provided by the Owner

272133 Wireless Access Points

Wireless access points, and a controller if applicable, will be provided by the Owner. The subcontractor in section 271000 shall install the wireless access points and shall furnish and install green cat6A patch cords from the WAP outlet above the ceiling to the WAP device.

273000

The phone system, programming and handsets shall be provided and installed by the Owner. The building shall be cabled to support a voice over IP phone system using Cat 6A.

274000

The PC/laptop in each classroom shall be provided by the Owner. A new voice lift system and ceiling speaker shall be furnished and installed in each classroom. The base unit shall be installed on the wall behind the footprint of each interactive display. A 75" Promethean Interactive Display shall be furnished and installed on the teaching wall of each classroom in grades 1-8. In grades Pre-K to K, the interactive display will be on a mobile cart, and have a media connector for the voice lift system affixed to the rear of the display. In these rooms, the voicelift base unit will be shelf mounted on the wall near the teacher's desk. The displays and voice lift shall be proprietary.

The gymnasium shall have a sound system, and large format projector and screen.

10 presentation cameras, Okiocam T Plus by Okiolabs shall be furnished and turned over to the owner.

275000

A new Atlas IED PA system with digital message clocks and call button shall be installed. Plastic call button covers shall be placed over every call button. Integration of the IED PA system to the owners VoIP phone system shall be furnished and installed. Any authorized phone shall be capable of paging the building or zones of the building. Clocks shall in in all offices, conference rooms, and classrooms and group spaces. Exterior PA speakers shall be included. The system shall be proprietary.

277000

Digital signage displays shall be provided and installed in the student dining area, at the main entry, and in 2 halls per floor. An IPTV system shall not be provided. Digital signage displays shall be furnished and installed by the 274000 subcontractor. Devices and software for the displays shall be furnished, programmed and installed by the owner.

280000

Identicard access control shall be furnished and installed in the school. All door contacts shall be double pole double throw contacts. The intrusion system and access control system shall each be wired to one set of contacts. With all door contacts being monitored by the access control system, a higher level of situational awareness is provided to the staff regarding entrances and exits of the building while the building is occupied. Traditionally, the intrusion detection system only monitored and reported door alarms during unoccupied times when the system is armed. Leveraging the access control system to also monitors the door contacts allows the staff to receive door alarms during occupied times when the intrusion detection system is typically disarmed. The access control system shall be proprietary. The main entry shall have a video entry system.

An intrusion detection system and related components shall be provided. Every first floor room with a window shall have a motion sensor. Motion sensors shall also be placed within the hallways and in vestibules and at strategic locations.

An indoor/outdoor CCTV system (IP based) will be provided. Coverage shall include entrances, hallways, stairwells, building perimeter, and parking (parking surveillance shall utilize both building mounted cameras as well as pole mounted cameras). Other areas, such as the gym, auditorium, café, and admin area shall be included.

260000

A Mass Notification System (MNS) shall be provided, to include alert and fire strobes in all spaces. Large group spaces shall also have a digital scrolling message board with MNS alert notifications.

THEATER EQUIPMENT

Stage Dimming and Lighting System

The Stage Dimming and Lighting system shall be comprised of a 48 dimmer rack and 24 – 120 volt relay cabinet. There shall be a low voltage CAT5e control network for both the house lights and the stage lighting with distributed network outlets allowing for DMX control at all stage lighting pipe locations and at stage level, left and right. Lighting control shall be by means of Element 40–500 control console with two monitors, an access point shall be included for Ipad control of cues. The Stage lighting fixture package will be all LED front lighting, LED par down lights and LED cyclorama lights. Stage lighting will be on Motorized hoists that raise and lower to allow for easy fixture movement for theatrical or dance productions. The Front light pipe shall lower on a motorized hoist with integrated circuits and DMX control.

Stage Video Wall

Taking technology to the next level, this facility will incorporate a 20' by 40' – 3.91 mm video wall at the rear of the stage. This will replace the need for a cyclorama curtain and cyc lighting fixtures, it also eliminate the need for a video projector and screen. Control can be processed thru the Crestron system, or local switcher. Camera inputs allow for Image magnification, movies, and computer inputs will allow for presentations to be on the video wall.

Stage Audio Visual and Sound

AV control shall be by a Crestron control system with the main control location at the stage storage room. This area will be central hub and shall house the Audio control console, the Lighting control console, Crestron touch screen controller and house light touchscreen control station. A DVD player shall be included as a standard input to the video wall. Speakers shall be hung at a center cluster for voice support and left and right for stereo effects. These shall be amplified and run thru a drive rack to process the sound for the room. A 40 channel digital mixing console and wireless microphone package of 8 units shall be included along with a wireless assisted listening system. Additionally the audio system shall have a back stage communication system connecting the band, chorus, control booth and back stage areas on a clear-com communication system.

Stage Rigging and Curtains

The stage shall have a set of curtains and tracks consisting of; a Main valence and Main bi-parting curtain in custom color IFR velour. Three

layers of legs and border masking with a mid-stage traveler all in black velour or IFR fabric and rear black bi-parting velour. All stage curtains shall be on Dead hung line sets. In addition there will be two scenic battens on motorized hoists with a one-way walk-along track for pulling scenic drops on and off stage. There shall be a minimum of four stage lighting pipes on stage, two front side light torm ladders, one on each side of the stage apron and one front of house hoist that raises and lowers complete with dimmer circuits and DMX control for stage lighting fixtures.

FOOD SERVICE EQUIPMENT

Crabtree McGrath Associates is a consulting firm specializing in food service facilities planning and design. We have worked with Ai3 Architects to study a framework for the design of the kitchen and serving space associated with a new school building. Additionally, Crabtree met with the schools current Food service Director to identify future goals and to seek guidance for the equipment needed in the new facility.

The school's food service operation will be organized into two parts. One part is the "back of house" consisting of food storage, preparation area, and cooking. The other part is what we call the "front of house" or serving area. The serving area is where students approach and are served meals.

Kitchen and Food Preparation Area

The back of house shall include all the necessary components of a fully functional kitchen to include a receiving area to be used as a staging point for the breakdown and distribution of delivered goods. Refrigerated rooms for the bulk storage of refrigerated and frozen products, sized to accommodate the needs of the facility, shall be provided. Dry goods storage shall be made available for the keeping of canned, boxed, and other non-refrigerated food items. Food grade storage shelving and dunnage platforms shall be provided for dry goods storage and for storage of disposable items such as paper goods.

Food preparation shall take place on stainless steel tables of various sizes and configurations. Tables may be fashioned with sinks, drawers, shelves, and overhead pot storage hooks. Motorized food preparation equipment such as a food slicer, food cutter, and mixer shall be provided. Sizing of this equipment will be based on the scope of food preparation.

Cooking shall take place in a central location adjacent to both food storage and preparation. Equipment shall consist of standard pieces such as convection ovens, boiling kettles, braising pans, steamers, and open burner range tops. Adjustments shall be made to cooking equipment to suite the specific menu.

The facility will include the necessary ware washing equipment to process ware, pots, trays, pans and plastic trays returned from the cafeteria. Other support facilities located in or adjacent to the kitchen will include a staff toilet, a dedicated kitchen janitor's mop sink with enough space for the storage of mops, buckets and detergents. A clothes washer and dryer will be provided for the washing of mop heads, aprons, and kitchen hand towels. Typically grouped with this equipment are employee locker accommodations for the storage of personal items like coats, handbags, or shoes and an office for the kitchen manager. Itemized breakdown of equipment:

Refrigerated Storage - The kitchen will require the following storage.

- a. Walk-in cooler for refrigerated storage.
- b. A walk-in freezer for frozen storage.
- c. A walk-in freezer for district wide commodity storage.
- d. Dry goods storage area for paper and food storage.

Serving Area

Serving will take place at multiple counters organized into a linear configuration allowing for orderly and secure serving of food products. Counters are grouped into cold and hot food serving lines that will serve the typical school lunch. These lines shall include the necessary equipment needed to provide the cold offerings such as fruit, salads, and beverages.

In addition, a grab and go station, deli sandwich line, grill station, and cold food bar will be utilized to enhance the meal offering and increase participation.

Each of the lines will funnel into a common area large enough to accommodate the flow of traffic where the transaction is to take place to account for meal type and quantity. Counters with tray slides will be provided to accept "Point of Sale" terminals where students can pay with cash or type in a code that is linked to a declining balance prepaid system.

Within the seating area will be two condiments stands able to display napkins, forks, straws, and other utensils and condiments needed for the lunch period. These units will be mobile and able to be placed where needed. The base cabinet will be equipped with lockable storage.



CODE & FIRE ENGINEERING GROUP

101 Federal Street, 6th Floor Boston, MA 02110 T: 617.748.7800 F: 617.748.7801 www.cosentini.com Drawing Reviews Building and Fire Code Consulting Life Safety, Egress, and Accessibility Negotiation and Equivalencies Fire/Smoke Modeling Special Inspections and Commissioning Hazardous Materials and Process Analysis Smoke Control System Design Due Diligence and 3rd Party Reviews

September 13, 2022

James Jordan Ai3 Architects, LLC 526 Boston Post Road Wayland, MA 01778

Re: Dual Language – SD Code Compliance Central Falls, RI

Dear Mr. Jordan:

Cosentini Associates has reviewed the drawings for the proposed Dual Language school project for compliance with the major fire protection and life safety criteria of the applicable codes and discussed with Ai3 Architects regarding the proposed designs. The proposed project includes the new construction of a Per-K through 8th grade school, consisting of three stories and footprint of approximately 31,700 square feet. In our opinion, the project is in compliance with the major fire protection and life safety criteria of the Rhode Island Building Code.

Sincerely, COSENTINI ASSOCIATES, INC. Code Consulting and Fire Engineering Services

Corlinson & Edwark

Rockwood J. Edwards, PE | Vice President Code and Fire Engineering Group Phone: 617-748-7800 | Fax: 617-748-7801 | Direct Dial: 617-748-0021 redwards@cosentini.com

Cosentini Associates, Inc. - A Tetra Tech Company 101 Federal Street – Suite 600 Boston, MA 02110 www.cosentini.com Central Falls School District



DUAL LANGUAGE: PK - 8

ARCHITECT	
Ai3 ARCHITECTS, LLC	
526 Boston Post Road Wayland, MA 01778 Tel: (508) 358-0790 Fax: (508) 358-0791	

LANDSCAPE ARCHITECT TRAVERSE LANDSCAPE ARCHITECTS 150 Chestnut Street, 4th Floor Providence, RI 02903 Tel: (401) 383-4950

SPECIFICATIONS WIL-SPEC, LLC 375 Main Street Boxford, MA 01921 Tel: (781) 598-6789 Fax: (781) 850-4468

CODE CONSULTANT COSENTINI ASSOCIATES, INC. 101 Federal Street, 6th Floor Boston, MA 02110 Tel: (617) 748-7800 Fax: (617) 748-7801

STRUCTURAL ENGINEER PARE CORPORATION 10 Lincoln Rd, Suite 210 Foxboro, MA 02035 Tel: (508) 543-1755 Fax: (508) 543-1881

20 Newman Ave, Suite 1005 Rumford, RI 02916 Tel: (401) 270-0600 CIVIL ENGINEER VERTEX 400 Libbey Parkway Weymouth, MA 02189 Tel: (781) 952-6000

OWNERS PROJECT MANAGER

PEREGRINE GROUP, LLC

MECH. / ELEC. / PLUMB. ENGINEERS GRIFFITH & VARY, INC. 12 Kendrick Road Wareham, MA 02571 Tel: (508) 295-0050 Fax: (508) 295-0003

COST ESTIMATOR PROJECT MANAGEMENT & COST 20 Downer Ave., Suite 1C Hingham, MA 02043 Tel: (781) 740-8007 Fax: (781) 740-1012



CIVIL EXISTING CONDI DRAINAGE PLAN DETAILS C1.0 C2.0 C3.0

LANDSCAPE L1.21 HARDSCAPE PLAN LP1.21 LANDSCAPE PLAN FIRE PROTECTION FIRE PROTECTION RISI

PLUMBING

PI LIMBING RISER DIAGRA

MECHANICAL M.1 MECHANICAL CONTROL SEQUENCE M.2 MECHANICAL CONTROL SEQUENCE

ELECTRICAL ELECTRICAL RIS

SECOND FLOOR PLAN ZONE THIRD FLOOR PLAN ZONE A THIRD FLOOR PLAN ZONE E EXTERIOR LEWATIONS EXTERIOR LEWATIONS BUILDING SECTIONS BUILDING SECTIONS WALL SECTIONS ROAM FINISH SCHEDU

ARCHITECTURAL



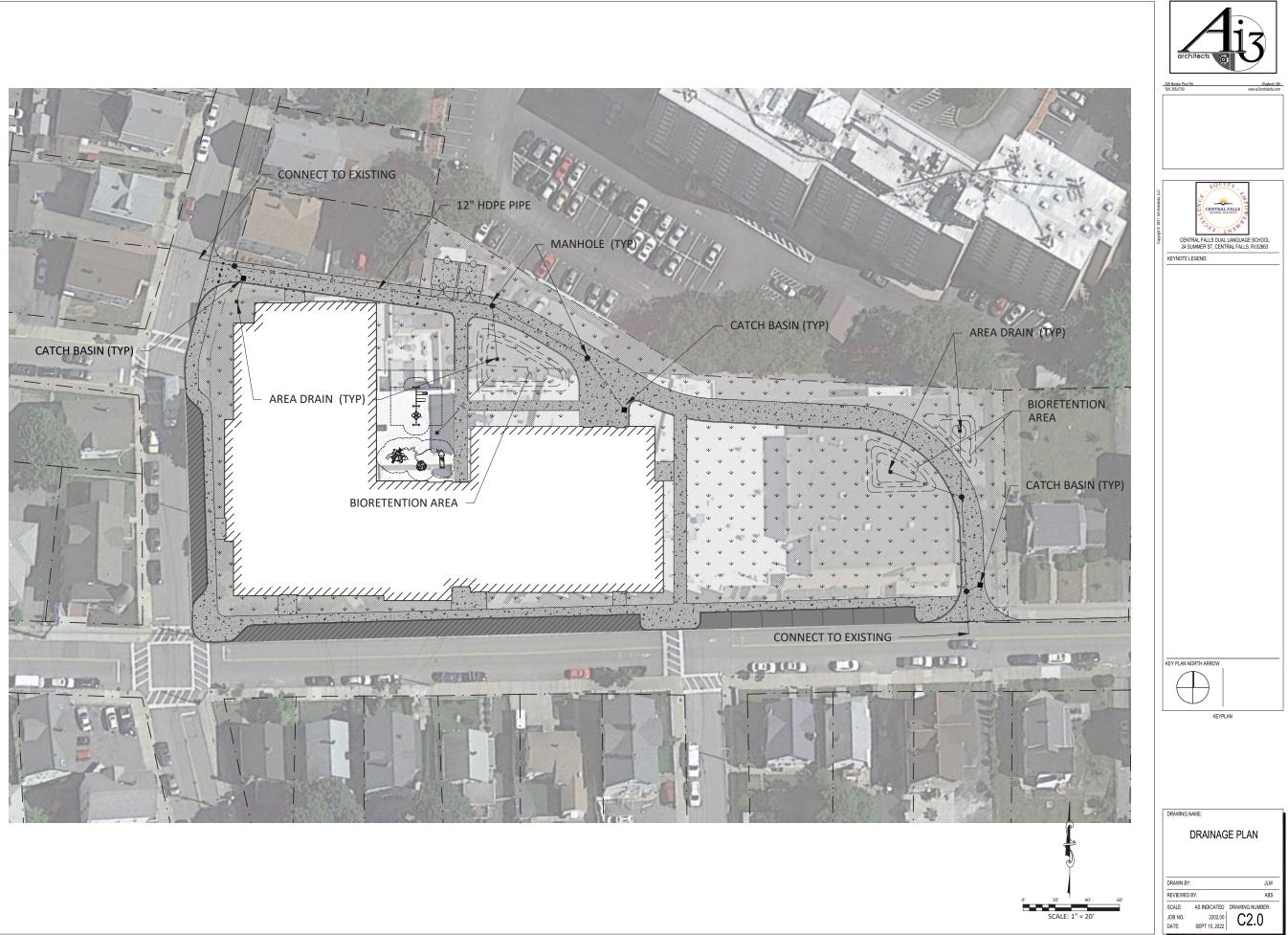
SCHEMATIC DESIGN

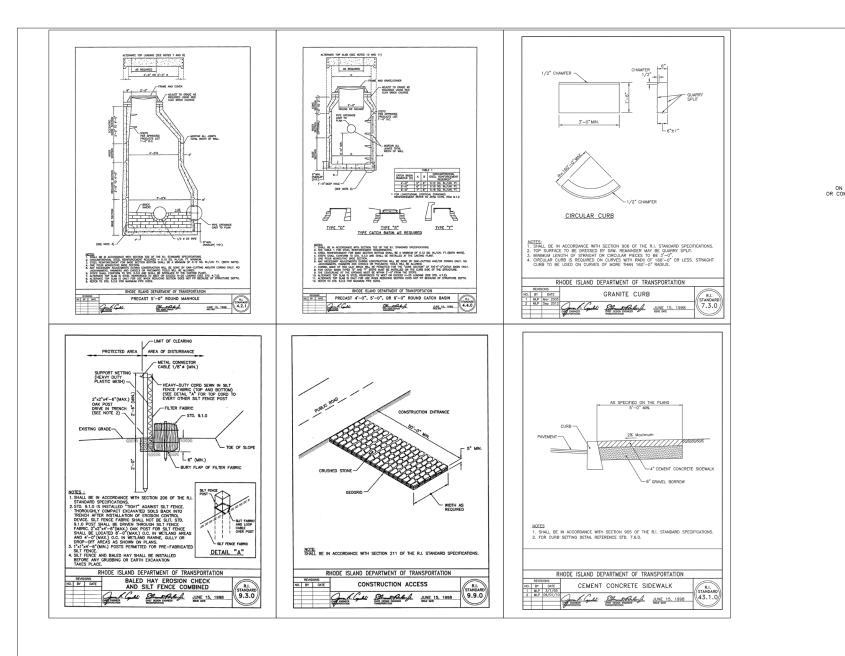
Stage II - Development of a Solution Ai3 Architects, Inc.

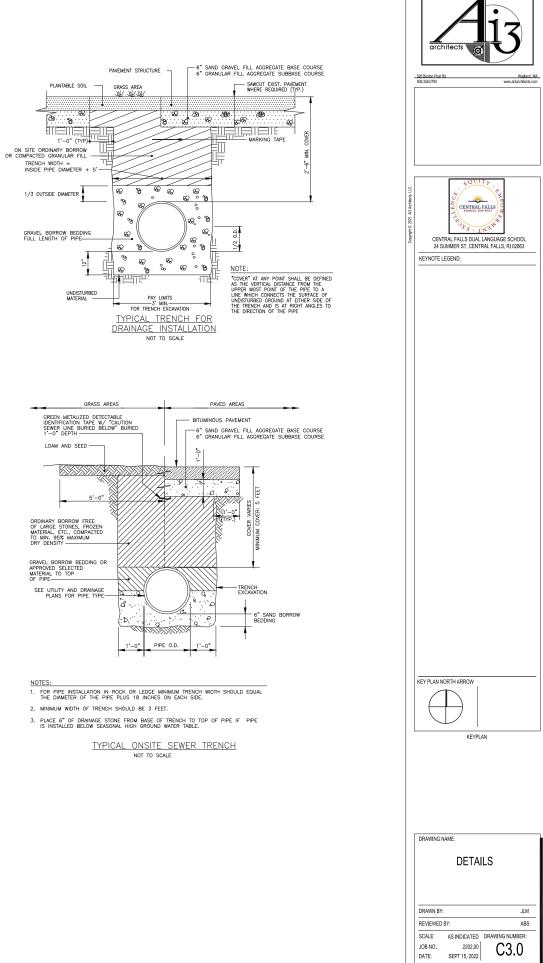
SEPT 15, 2022

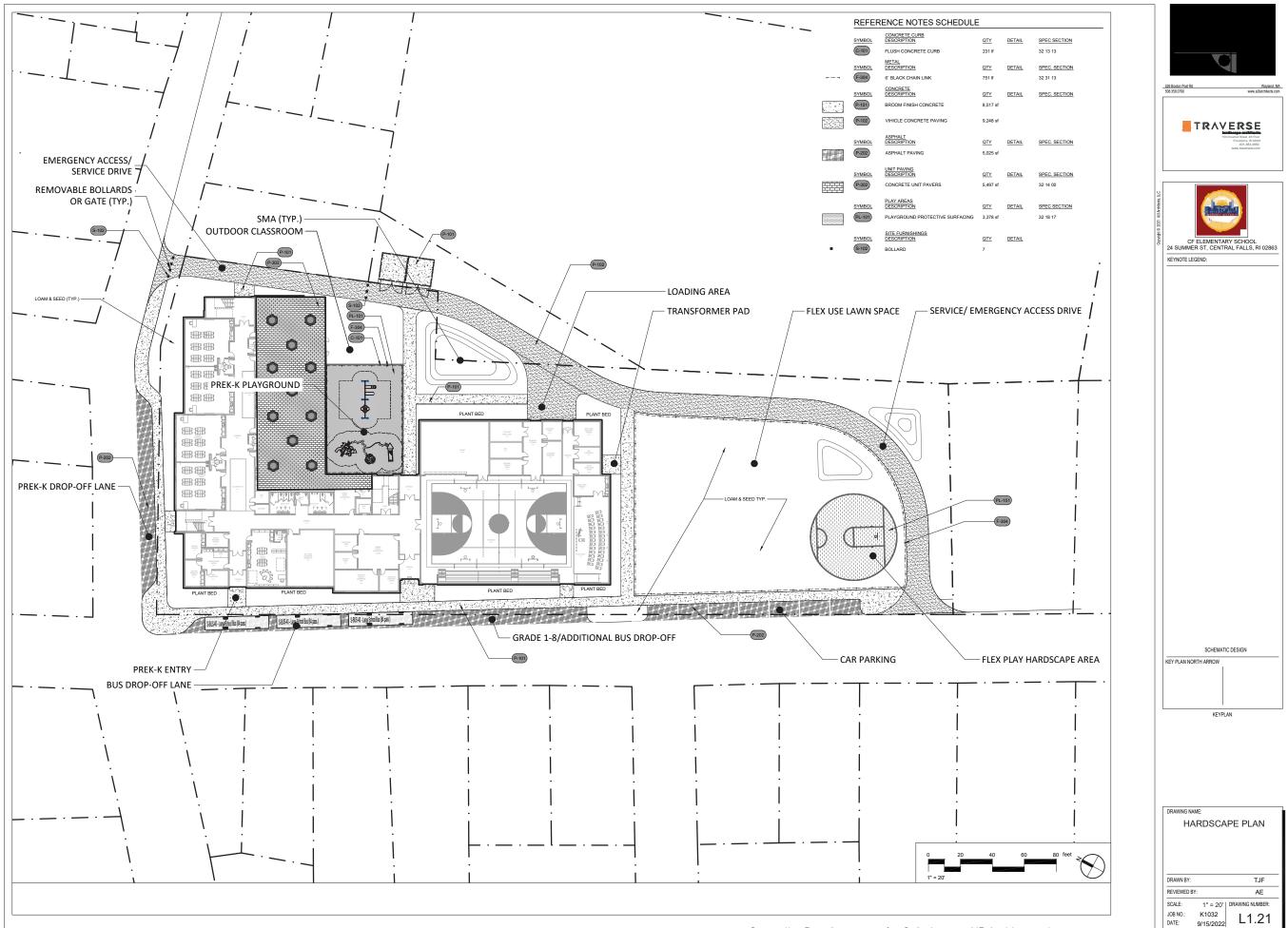
AI3 PROJECT NO.2202.00 - DUAL LANGUAGE: PK - 8

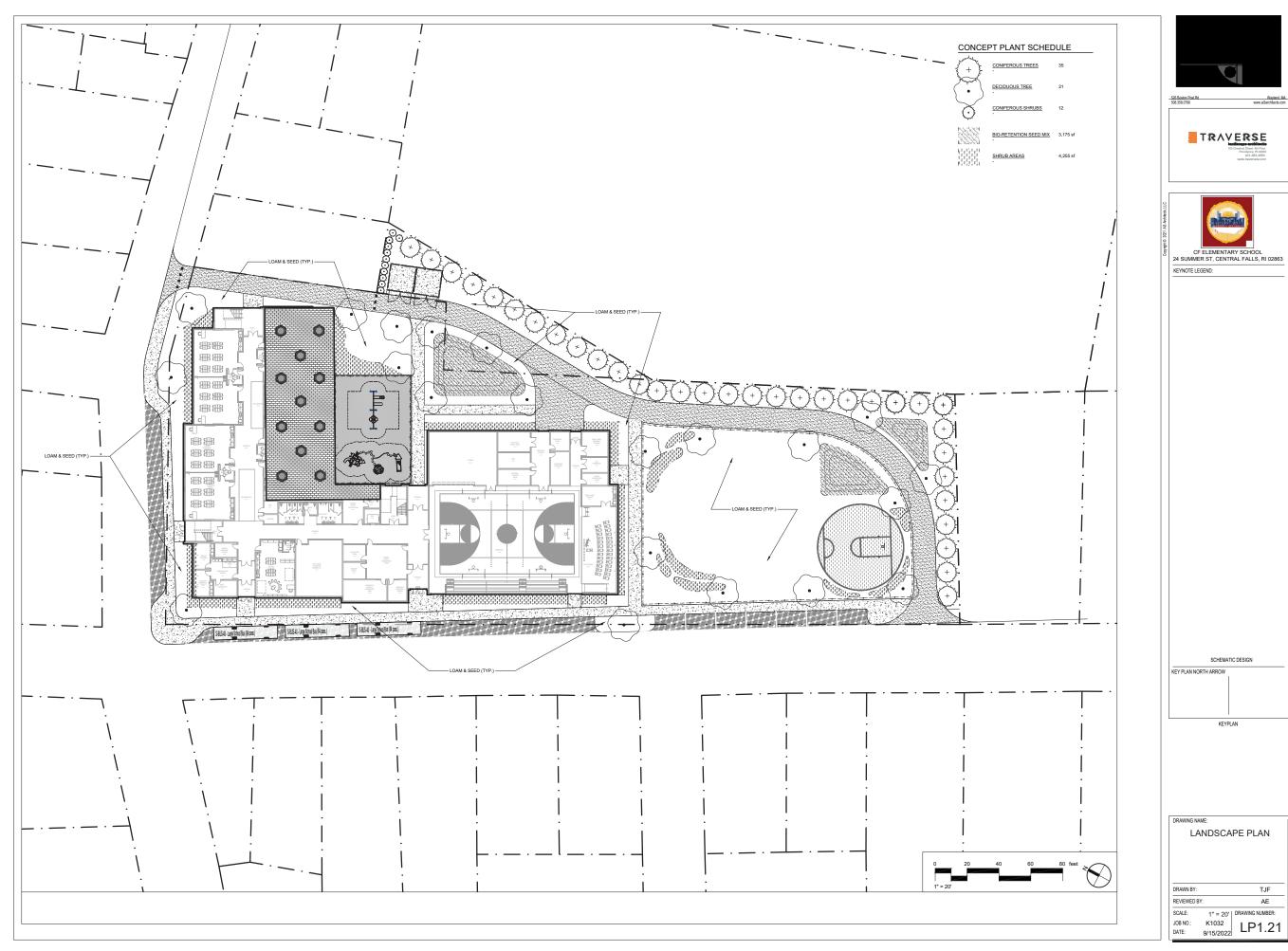






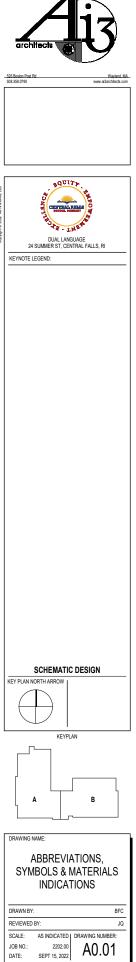


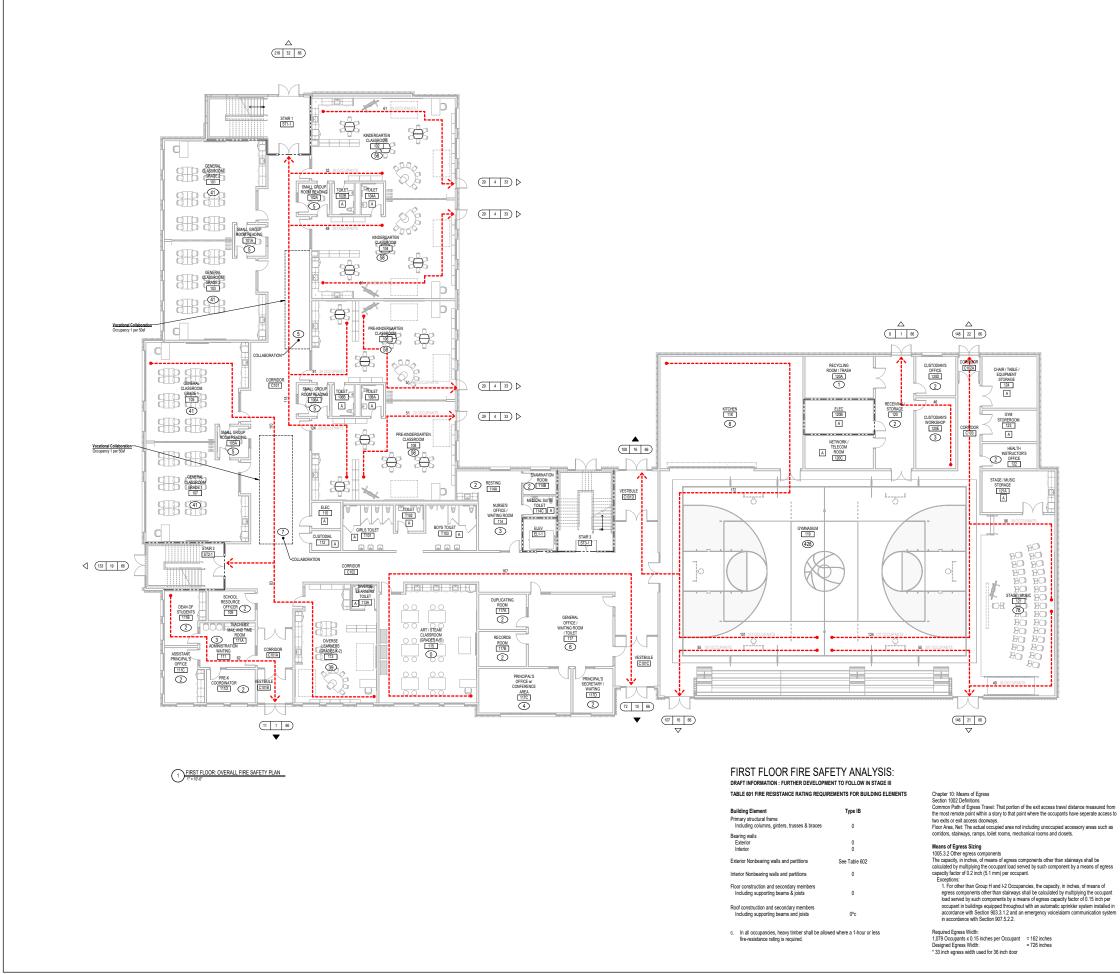


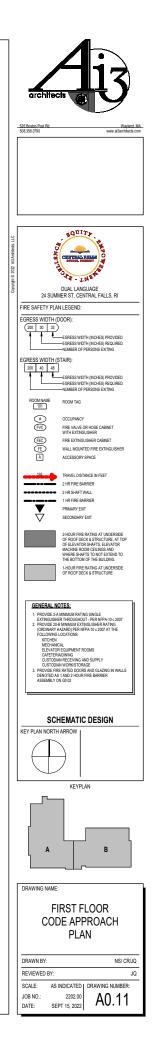


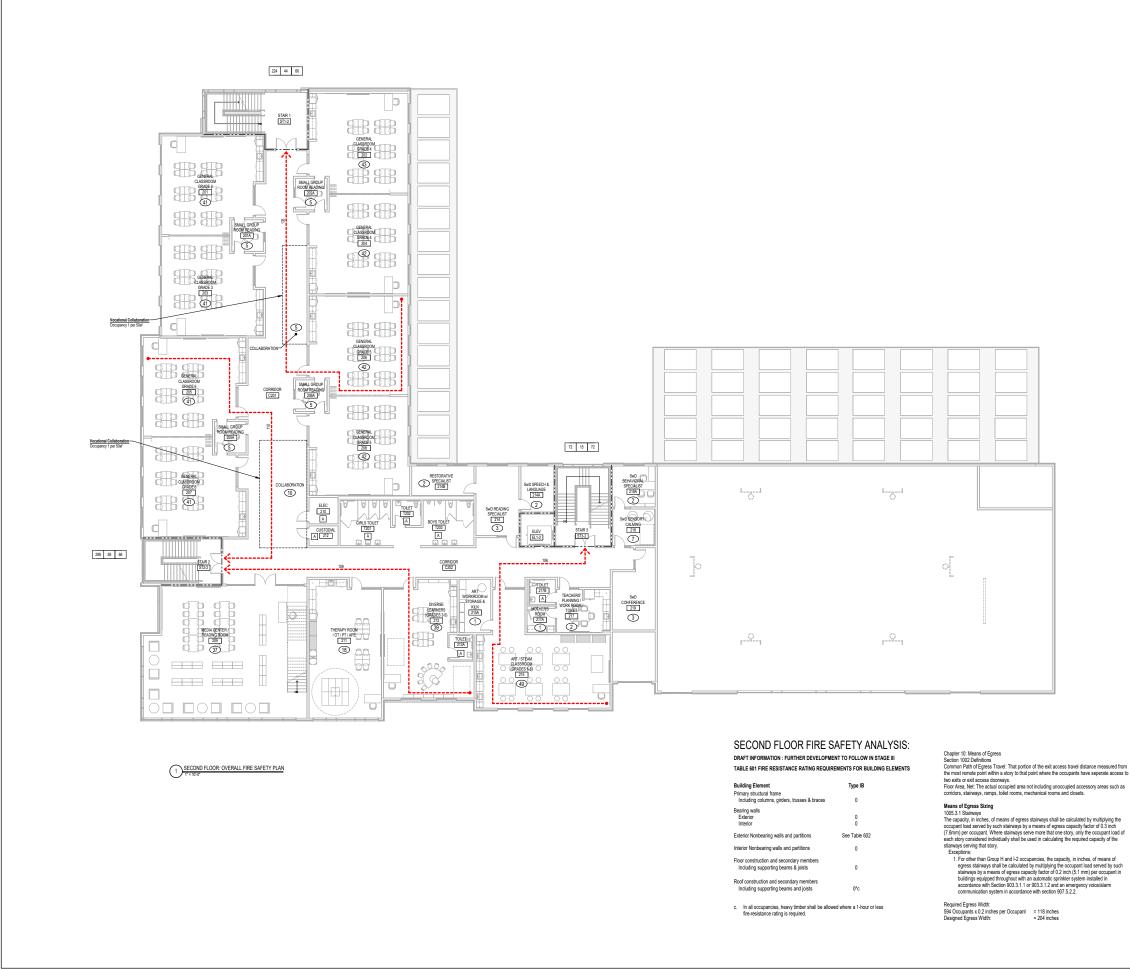
PHIC SYMBOLS		MATERIAL INDICATIO	ONS
ROOM NAME	ROOM TAG	222222	BATT INSULATION
	DOOR TAG		BRICK, STONE MASONRY
(W100-01)	WINDOW TAG		CONTINUOUS BLOCKING
XXX	WALL TAG		INTERMEDIATE BLOCKING
вхх	CASEWORK TAG		CONCRETE
Æ	EQUIPMENT TAG		CONCRETE MASONRY
	NEW COLUMN GRID LINES		EARTH
-	DATUM/SPOT ELEVATION		FIRESAFING
X AXX Ref	BUILDING SECTION		GRAVEL
X Ref	DETAIL		GYPSUM - PLASTER
X Ref	WALL SECTION		MINERAL FIBER INSULATION
AXX Ref	CALLOUT		PLYWOOD
X AXX Ref	EXTERIOR ELEVATION		RIGID INSULATION
Ref X Ref X AXX X Ref	INTERIOR ELEVATION		STEEL
Ref	INTERIOR ELEVATION		VINYL WALL GRAPHIC
# VIEW NAME	TITLE MARK		WOOD FINISH
	NORTH ARROW		
<i></i>	WOOD GRAIN DIRECTION	1	

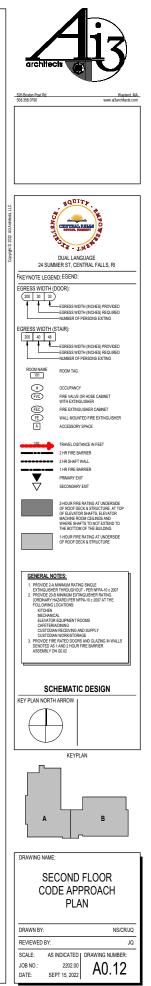
CT	ACOUSTICAL	FAB FAF	FABRICATE FLUID-APPLIED ATHLETIC FLOORING	NAT NIC	NATURAL NOT IN CONTRACT	T&G TB	TONGUE & GROOVE TACK BOARD	
5	ACOUSTICAL CEILING TILE AREA DRAIN	FB FD	FLAT BAR FLOOR DRAIN	NO NOM	NUMBER	TC TEL	TOP OF CURB TELEPHONE	
D	ADDENDUM ADDITIONAL	FDVC FE	FIRE DEPARTMENT VALVE CABINET FIRE EXTINGUISHER	NRC	NOISE REDUCTION COEFFICIENT NOT TO SCALE	TEMP TFE	TEMPORARY, TEMPERATURE THIN-FILL EPOXY FLOORING	
)J	ADJUSTABLE, ADJACENT	FEC	FIRE EXTINGUISHER CABINET		NOTTO GUALE	THK	THICK	
F GR	ABOVE FINISH FLOOR AGGREGATE	FEJ FF	FLOOR EXPANSION JOINT FINISH FLOOR	OA	OVERALL	THR TLT	THRESHOLD TOILET	
IU T	AIR HANDLING UNIT ALTERNATE	FH	FIRE HYDRANT FINISH	OC OD	ON CENTER OUTSIDE DIAMETER	TO TOP	TOP OF TOP OF BLOCKING	
UM IOD	ALUMINUM ANODIZED	FIN GR FIX	FINISH GRADE FIXED	OFOI OFCI	OWNER FURNISHED / OWNER INSTALLED OWNER FURNISHED / CONTRACTOR INSTALLED	TOC TOF	TOP OF CONCRETE TOP OF FOUNDATION	
	ACCESS PANEL	FIXT	FIXTURE	OH	OVERHEAD	TOS	TOP OF STEEL	
RX CH	APPROXIMATE ARCHITECTURAL	FLASH FLEX	FLASHING FLEXIBLE	OPER OPNG	OPERABLE OPENING	TRK TS	TRACK TUBE STEEL	
G	AVERAGE AND	FLUOR FLR	FLUORESCENT FLOOR	OPP OZ	OPPOSITE / SIMILAR OUNCE	TV TW	TELEVISION TOP OF WALL	
	ANGLE AT	FND FPRF	FOUNDATION FIRE PROOFING			TYP TZ	TYPICAL TERRAZZO	
		FRT	FIRE RETARDANT TREATED FOOD SERVICE	P PAR	PAINT PARALLEL	12	1ENGALLO	
;	BRICK COURSE	FS FT	FOOT, FEET	PERF	PERFORATED	UC	UNDERCUT	
) ;	BOARD BELOW GRADE	FTG FTR	FOOTING FINNED TUBE RADIATION	PERP PG	PERPENDICULAR PAINT GRADE	UL UNO	UNDERWRITERS LABORATORY UNLESS OTHERWISE NOTED	
DG	BUILDING LINE BUILDING	FURN FURR	FURNITURE FURRING	PL PLAM	PLATE PLASTIC LAMINATE	UR UV	URINAL UNIT VENTILATOR, ULTRAVIOLET	
K KG	BLACK BLOCKING	FUT	FUTURE	PLBG PLAS	PLUMBING PLASTER			
R	BOILER			PNL	PANEL, PANELING	VB	VINYL BASE	
M M	BEAM, BENCHMARK BOTTOM	GA GALV	GAUGE GALVANIZED	POL PR	POLISHED PAIR	VCT VERT	VINYL COMPOSITE TILE VERTICAL	
U W	BRITISH THERMAL UNIT BOTTOM OF WALL	GC GEN	GENERAL CONTRACTOR GENERAL, GENERATOR	PRFB PRTBD	PREFABRICATED PARTICLE BOARD	VEST VIF	VESTIBULE VERIFY IN FIELD	
		GFRG	GLASS FIBER REINFORCED GYPSUM GLASS FIBER REINFORCED PLASTER	PSI PT	POUNDS PER SQUARE INCH PRESSURE TREATED	VP VTR	VENEER PLASTER VENT THROUGH ROOF	
Ъ	CABINET	GL	GLASS	PTD	PAINTED	VIR	VENT THROUGH ROOF VINYL WALLCOVERING	
B BN	CHALK BOARD CATCH BASIN	GND GWB	GROUND GYPSUM WALL BOARD	PTN PWD	PARTITION PLYWOOD			
	CONTROL JOINT CENTERLINE	GYP	GYPSUM			W W/	WEST, WIDE, WIDTH WITH	
.G .KG	CEILING	н	HIGH	QR	QUARTER ROUND QUARRY TILE	W/O WAB	WITHOUT WOOD ATHLETIC FLOORING VENTED BASE	
OS	CAULKING CLOSET	HC	HOLLOW CORE	QUAL	QUALITY	WAF	WOOD ATHLETIC FLOORING	
.R .SRM	CLEAR CLASSROOM	HDW HM	HARDWARE HOLLOW METAL	QUAN	QUANTITY	WC WD	WATER CLOSET WOOD	
AT ATB	CERAMIC MOSAIC TILE CERAMIC MOSAIC TILE BASE	HORZ HP	HORIZONTAL HIGH POINT	R	RADIUS, RISER, RUBBER	WEJ WF	WALL EXPANSION JOINT WIDE FLANGE	
ΛU	CONCRETE MASONRY UNIT	HR	HOUR	RB	RUBBER BASE	WH	WATER HEATER	
)L)MP	COLUMN COMPRESSIBLE	HSMB HT	HORIZONTAL SLIDING MARKER BOARD HEIGHT	RCPT RD	RECEPTACLE ROOF DRAIN	WP WPFG	WORK POINT WATER PROOFING	
DNC DNST	CONCRETE CONSTRUCTION	HVAC HW	HEATING VENTILATION & AIR CONDITIONING HOT WATER	REC RECT	RECESSED RECTANGULAR	WSF WT	WOOD STRIP FLOORING WEIGHT, WT (STEEL SHAPE)	
ONT	CONTINUOUS CONTRACTOR	HWD	HARDWOOD	REF REFL	REFERENCE REFLECTED			
ORR	CORRIDOR			REFR	REFRIGERATOR	XBAR	CROSSBAR	
PT RS	CARPET COURSE	ID IN	INSIDE DIAMETER INCH, INCHES	REINF REQD	REINFORCED REQUIRED	XH XL	EXTRA HEAVY EXTRA LARGE	
r FB	CERAMIC TILE CERAMIC TILE BASE	INCL	INCLUDE, INCLUSIVE INSULATION, INSULATED	RESIL REV	RESILIENT REVISE, REVERSE			
IR JH	CENTER CABINET UNIT HEATER	INT	INTERIOR INVERT, INVERSE	RH	RIGHT HAND RIGHT HAND REVERSE	YD YR	YARD YEAR	
N	COLD WATER	inv	INVERT, INVERSE	RL	RAIN LEADER	YS	YIELD STRENGTH	
	CHANNEL	JAN	JANITOR	RLG RO	RAILING ROUGH OPENING			
	DEEP	JT	JOINT	RR RT	RUBBER RISER RIGHT	Z ZN	MODULUS OF SECTION ZINC	
BL EG	DOUBLE DEGREE	КD	KNOCKED DOWN	RTR	RUBBER TILE, RUBBER TREAD			
MO	DEMOLITION DEPARTMENT	KEC	KITCHEN EQUIPMENT CONTRACTOR	s	SOUTH			
Т	DETAIL	KW	KILOWATT	SC	SOLID CORE			
A.	DRINKING FOUNTAIN DIAMETER	KWH	KILOWATT PER HOUR	SCHD SCRF	SCHEDULE STATIC-CONTROL RESILIENT FLOORING			
FF M	DIFFUSER DIMENSION	L	LEFT, LONG	SECT SEG	SECTION SEGMENT			
SP	DISPENSER	LAM	LAMINATE, LAMINATED	SF	SQUARE FOOT			
V	DIVISION DOWN	LAV	LAVATORY POUND	SH SHT	SHELF SHEET			
PFG R	DAMPROOFING DOOR	LF LH	LINEAR FOOT, LINEAR FEET LEFT HAND	SHR SHVT	SHOWER SEAMLESS SHEET VINYL			
RM 8	DRAWER DOWNSPOUT	LP LT	LOW POINT LIGHT	SIM SLH	SIMILAR SLOTTED HORIZONTAL			
VG	DRAWING	LTG	LIGHTING	SLV	SLOTTED VERTICAL SEAMLESS FLOORING			
	F107			SPEC	SPECIFICATION			
	EAST EACH	MAT MATL	ENTRANCE MATS, ENTRANCE GRATE MATERIAL	SQ SQIN	SQUARE SQUARE INCH			
	EXPANSION JOINT ELEVATION	MAX MB	MAXIMUM MARKER BOARD	SS SSM	STAINLESS STEEL SOLID SURFACE MATERIAL			
EC EV	ELECTRICAL	MECH	MECHANICAL MEMBRANE	ST	STREET STATION			
1ER	ELEVATOR EMERGENCY	MFR	MANUFACTURER	STA STC	SOUND TRANSMISSION CLASSIFICATION			
ICL	ENCLOSURE ENTRANCE	MIN MISC	MINIMUM MISCELLANEOUS	STD STL	STANDARD STEEL			
1	ELECTRICAL PANEL, EPOXY PAINT EQUAL	MO MR	MASONRY OPENING MOISTURE RESISTANCE	STOR STR	STORAGE STRUCTURE			
UIP VC	EQUIPMENT ELECTRIC WATER COOLER	MTD	MOUNTED MOUNTING, MEETING	STRL	STRUCTURAL SUBCONTRACTOR			
(EXISTING	MTL	METAL	SUB	SUSPENDED			
(CV (P	EXCAVATION EXPOSED	MUL	MULLION	SWD SYM	SOFT WOOD SYMMETRICAL			
(T (TR	EXTERIOR EXTRUDED			SYN SYST	SYNTHETIC SYSTEM			



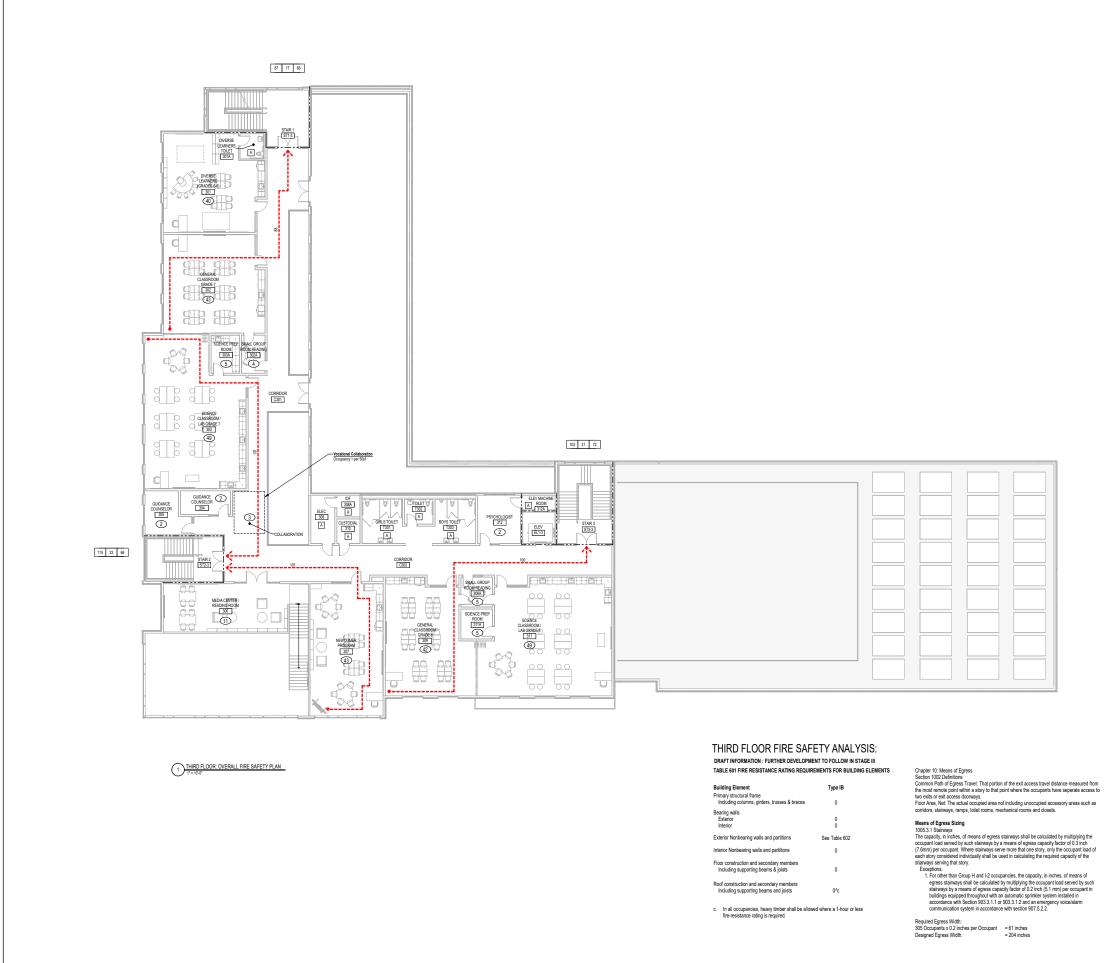




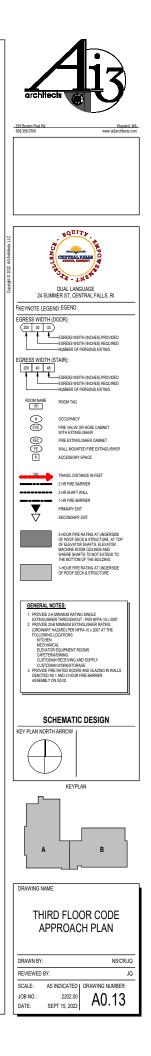




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		: II
		- 11



KEYNOTE LEGEND:

04 20 00.31 CMU - STANDARD - NORMAL WEIGHT - REFERENC DRAWINGS FOR DEPTH SIZE AND FIRE RATING 05 31 00.01 COMPOSITE STEEL DECK - SEE STRUCTURAL 05 31 00.11 COMPOSITE STEEL DECK - SINCH GALVANIZED - SEE STRUCTURAL

05 40 00.03 STEEL STUDS - 3 5/8 INCH - 16 INCHES O.C. MAX 05 40 00.19 STEEL Z-CLIP - 16 GAGE MIN. - 1 INCH MIN. DEPTH - 16 INCHES O.C. MAX

INCHES D.C. MIX 55 0001 STEE, ANGLE X.X.X.X.U.Y.-CONTINUOUS -12 NCH DAS ADTIED HOLES & VERTICAL LES ANGLE 45 00101 STEE, ANGLE - SEGNID CL.P.- SEE STRUCTURAL 05 00101 STEE, ANGLE - SEGNID CL.P.- SEE STRUCTURAL 07 2102 02 (0.25 STEER STRUKET STALLATION HARTOH DEPTH OF STUD - UNFACED

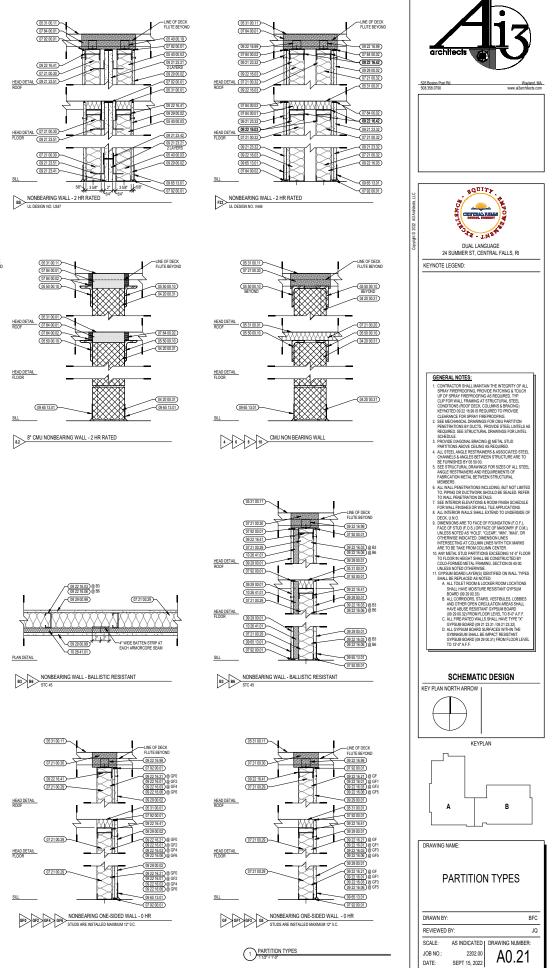
07 21 00.21 GLASS FIBER BLANK STUD - FACED ET INSULATION - MATCH DEPTH OF

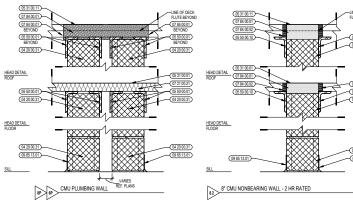
0 12 02 0425 FIRER AUXET INSULATION - MATCH DEPH of 7 10 03 7 10

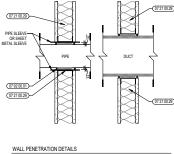
9 22 16.21 MIE HE FORMAN CHARMES HANNES HANNES TO MAIN STOL 99 22 16.41 METAL DEFLECTION TRACK ASSEMBLY 99 22 16.42 METAL DEFLECTION TRACK ASSEMBLY - FIRE RATED 19 22 16.99 METAL CUP FOR WALL FRAMING - 16 GA - 24 INCHES 0.C. MAX

0.C. MAX 92 90 0.01 5/B INCH GYPSUM BOARD - LEVEL 4 FINSH - 1 LAYER 99 20 0.02 5/B INCH GYPSUM BOARD - LEVEL 4 FINSH - 2 LAYERS 99 20 00.09 19 29 00.31 5/B INCH GYPSUM BOARD - LEVEL 4 FINSH - IMPACT RESISTANT

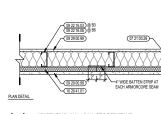
RESISTANT 09 29 00.99 GYPSUM BOARD SYSTEM - LEVEL 4 FINISH - REFER TO FLOOR FLANS AND WALL TYPES FOR COMPONENTS 09 65 13.01 RUBBER BASE - 4 INCH 10 26 41.01 BULLET RESISTANT PANEL - LEVEL 4 - UL 752



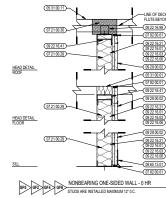


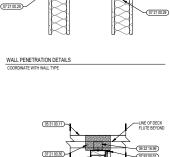


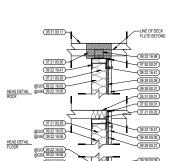
SILL



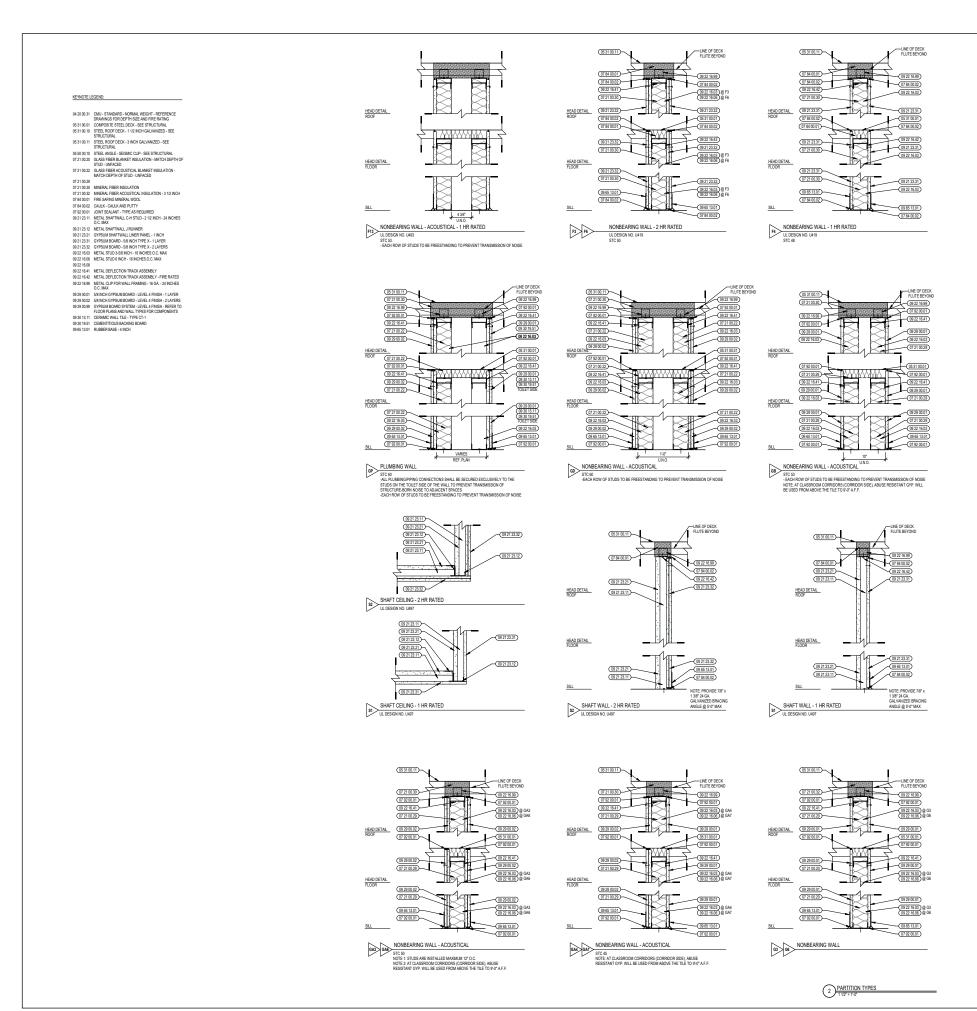
(053100.11)-07 21 00.30 09 22 16.41 (07 21 0 @GI3 09 22 16.03 @GI6 09 22 16.06 @GI3 09 22 16.03 @GI6 09 22 16.06 09 29 00.31 09 65 13 07 92 00.01 SILL GIA DONBEARING ONE-SIDED WALL - IMPACT RESISTANT

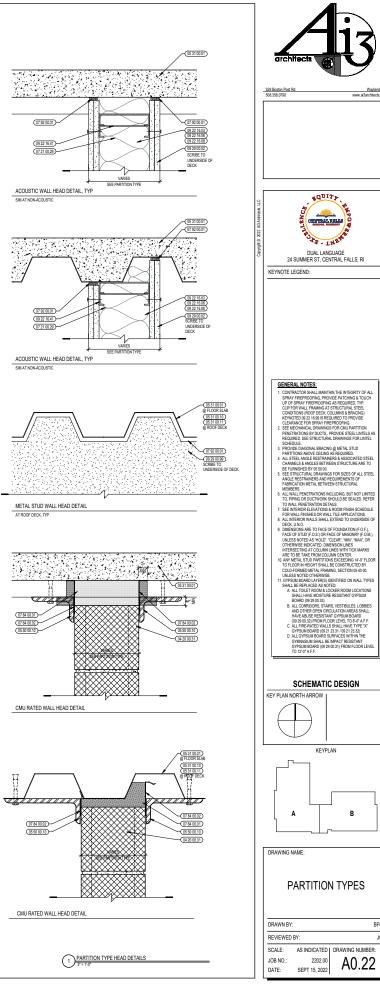






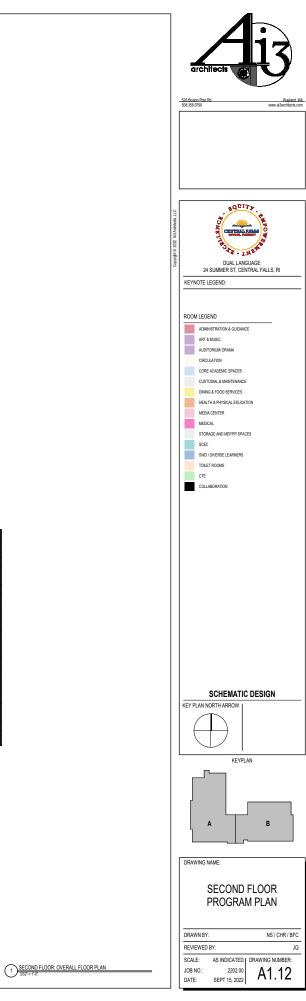


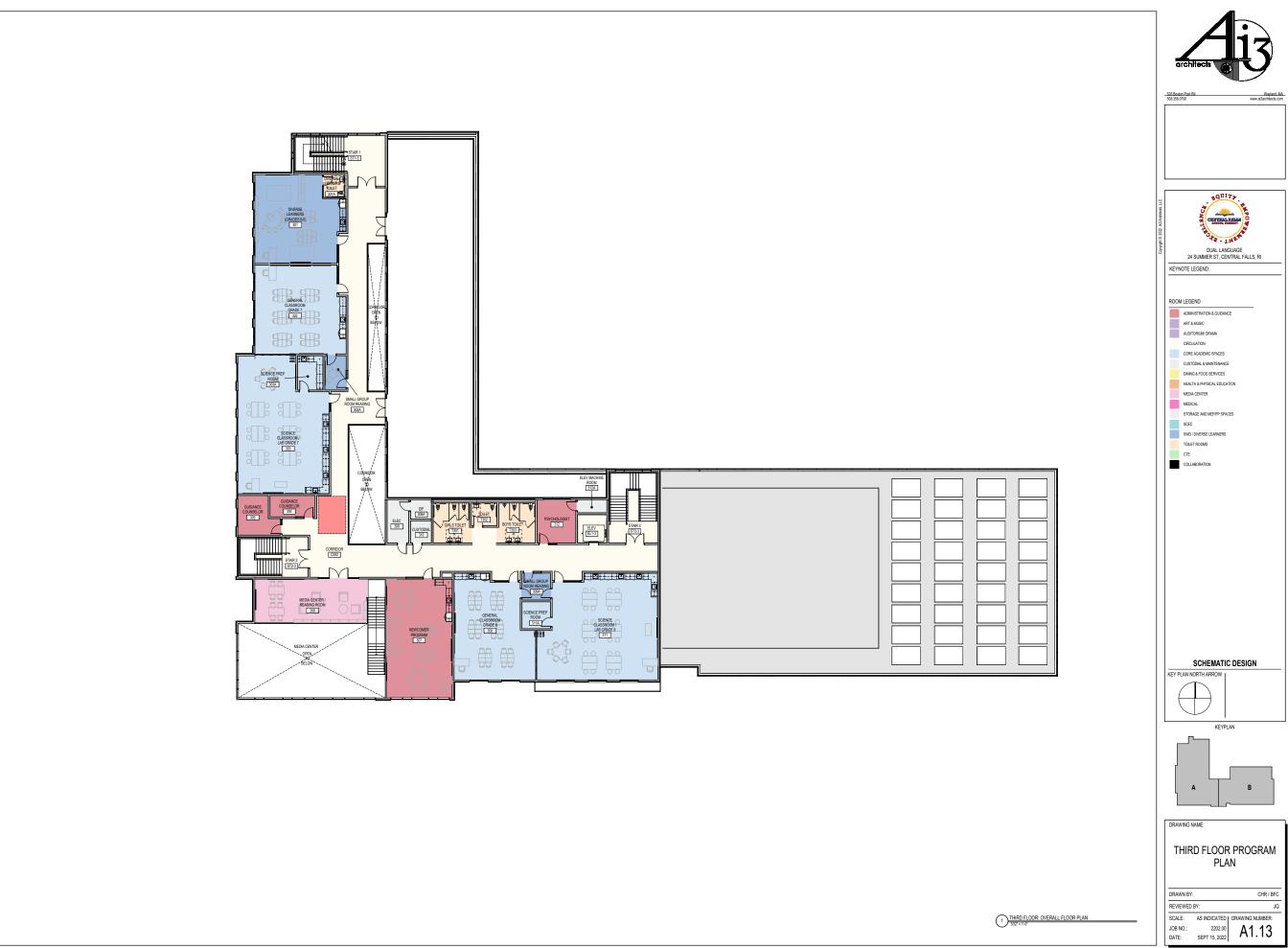


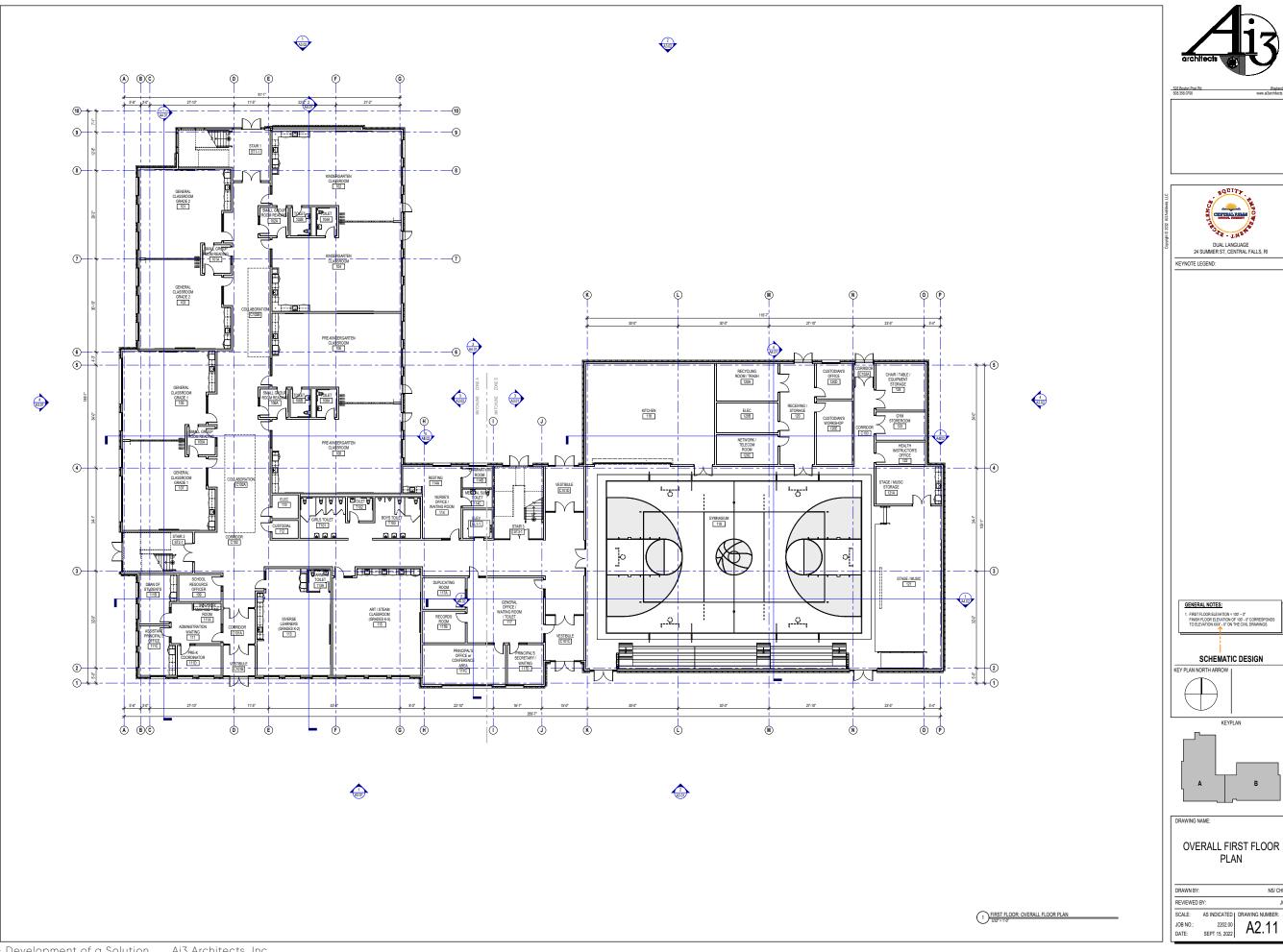








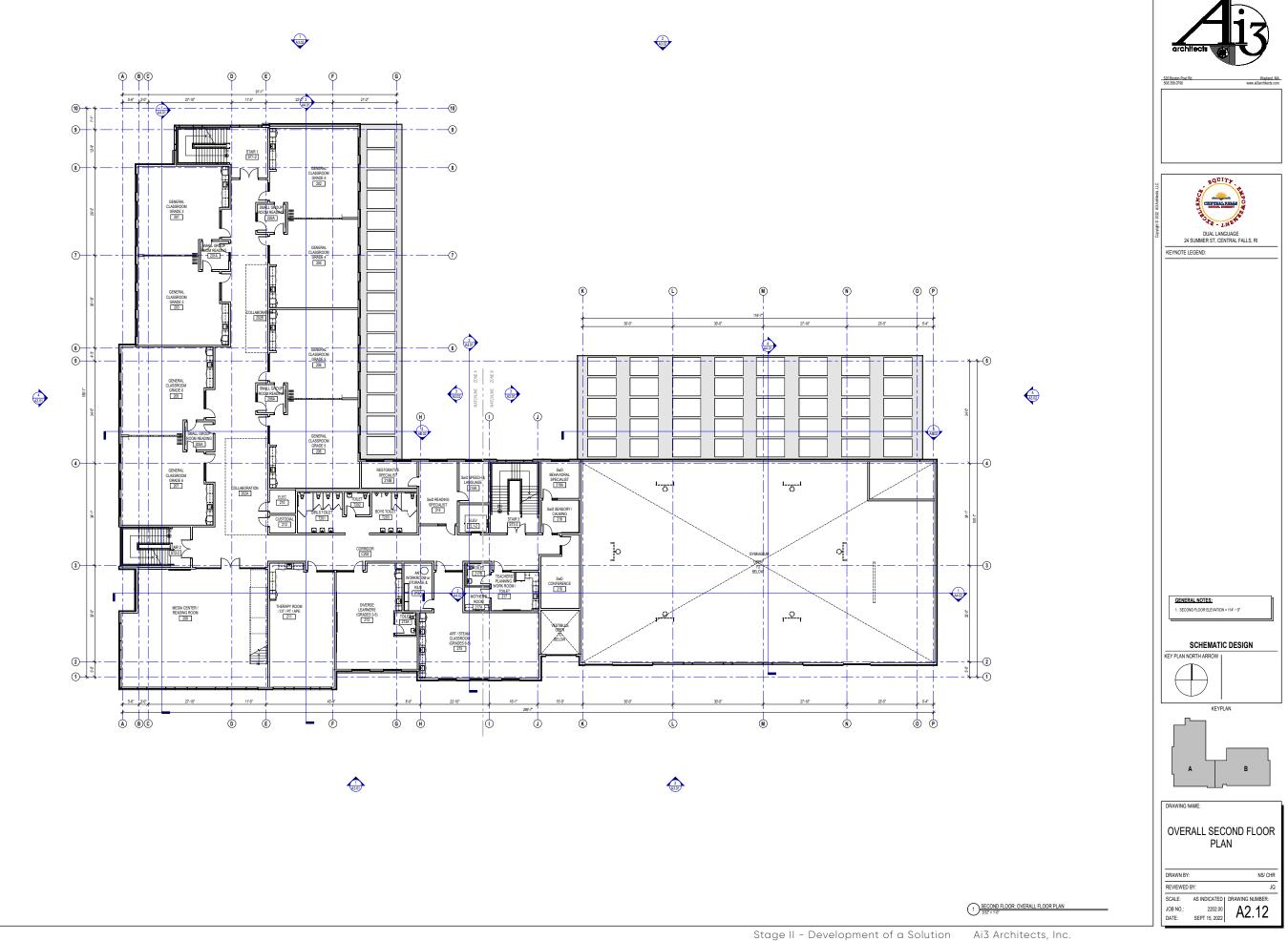


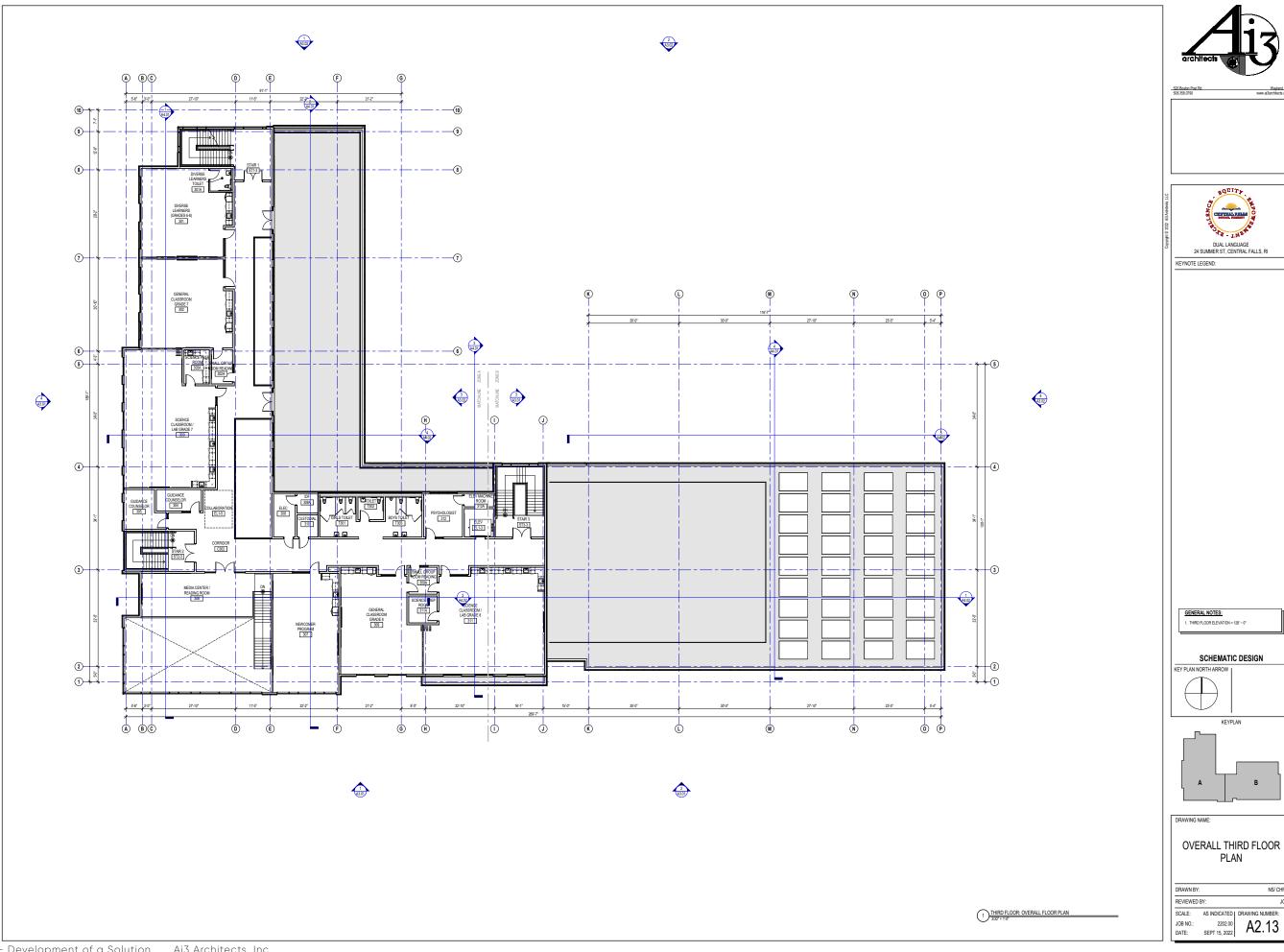


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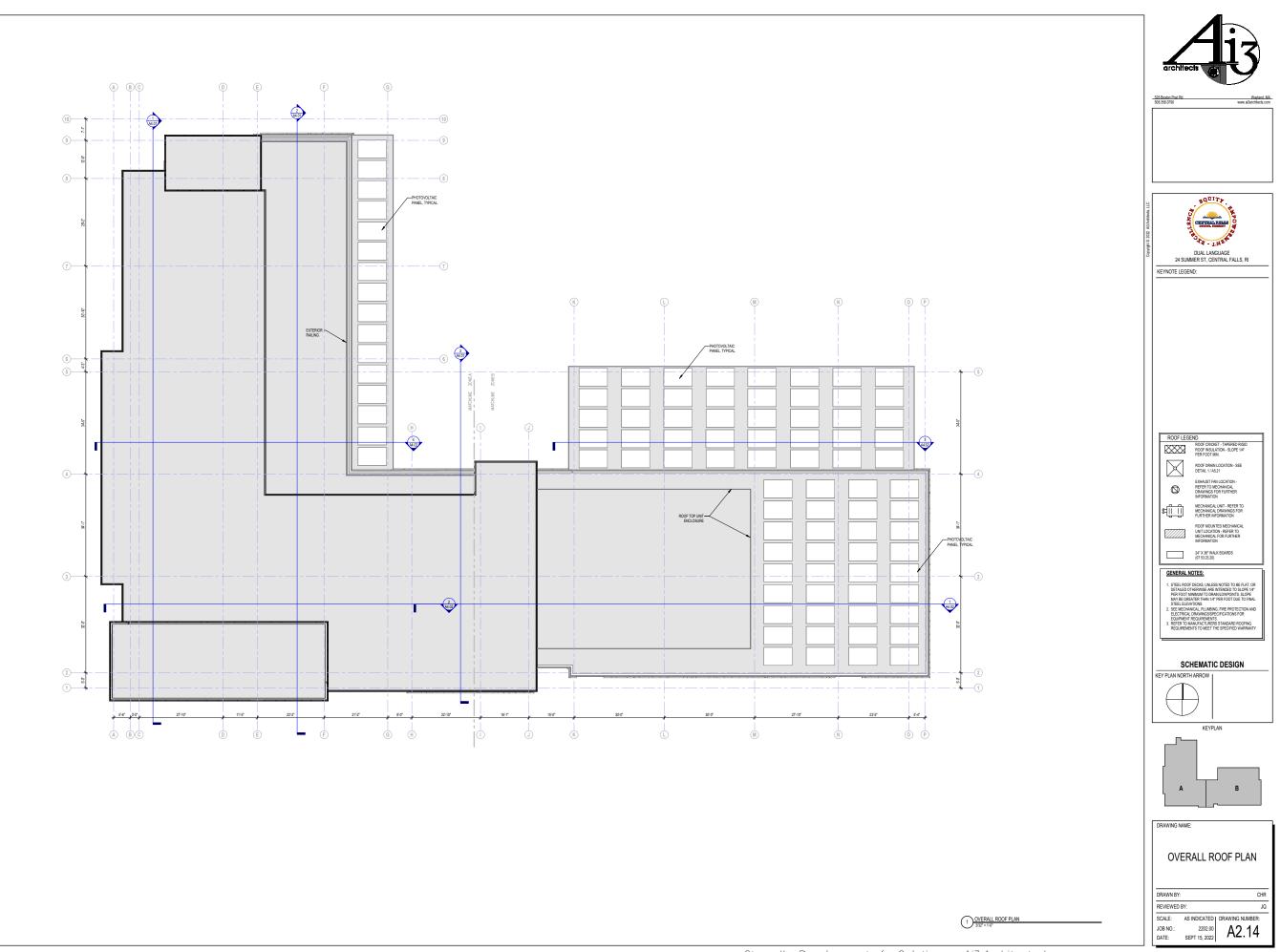
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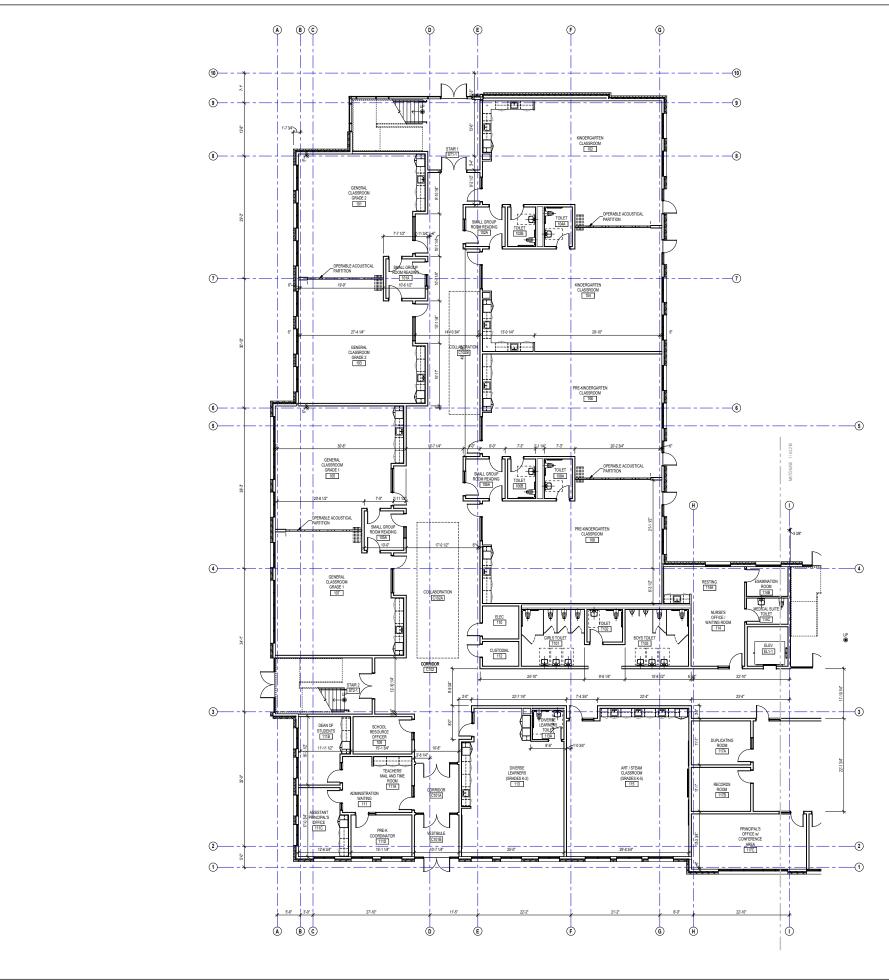


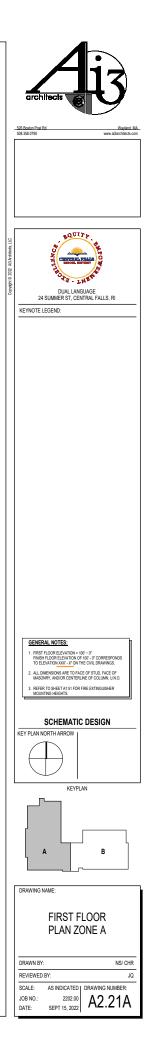


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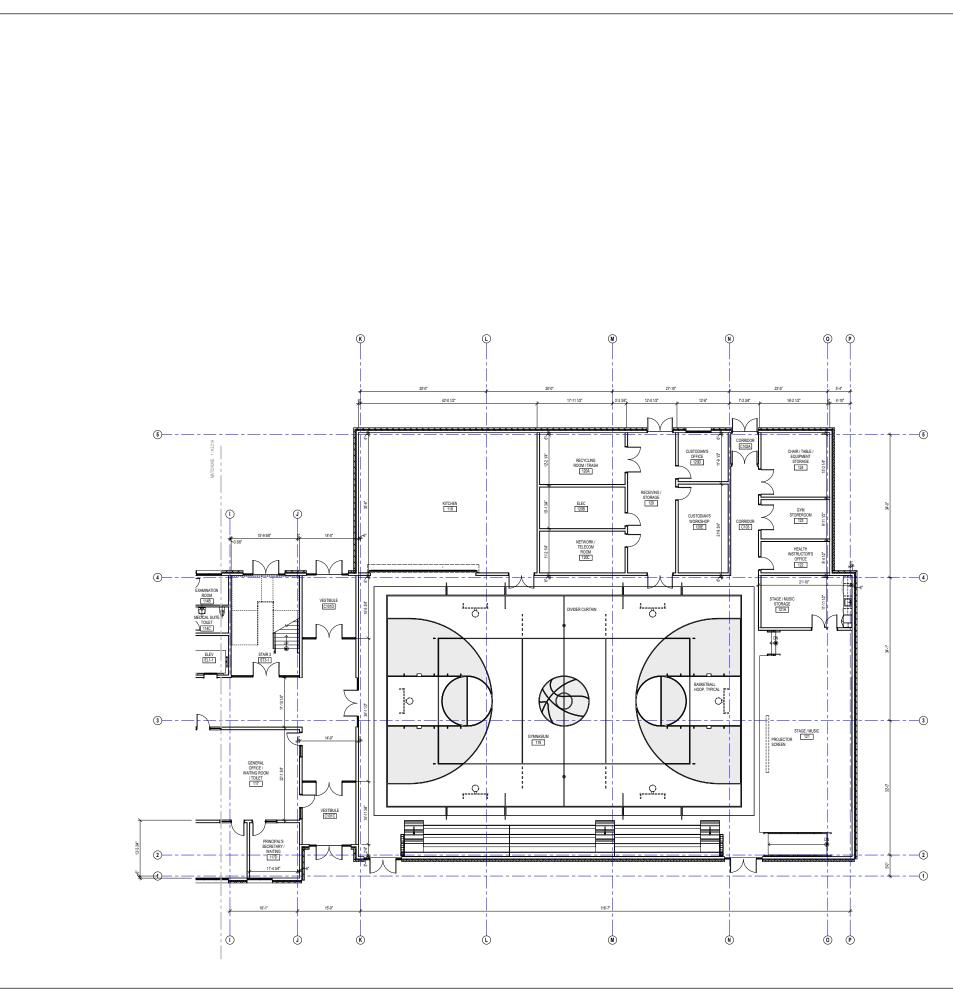
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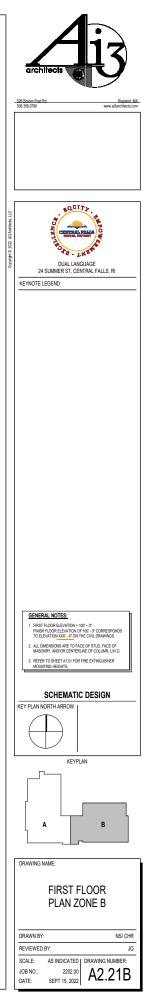




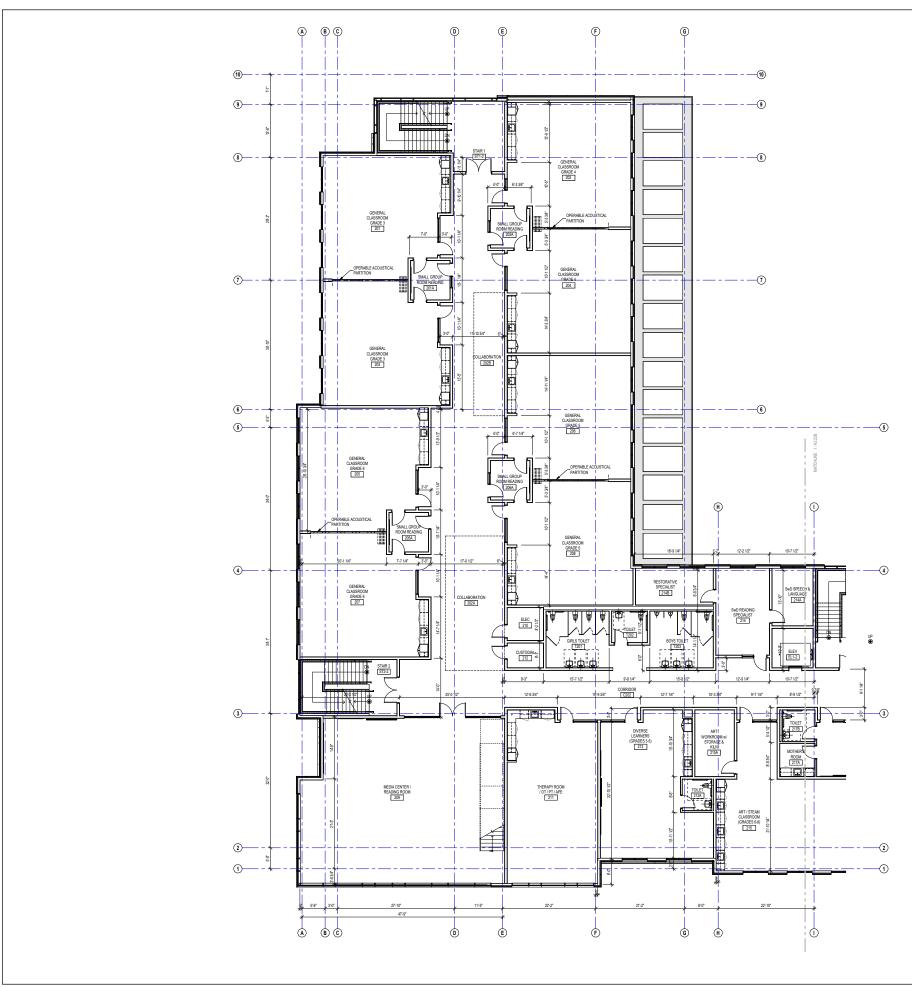


1 FIRST FLOOR PLAN - ZONE A



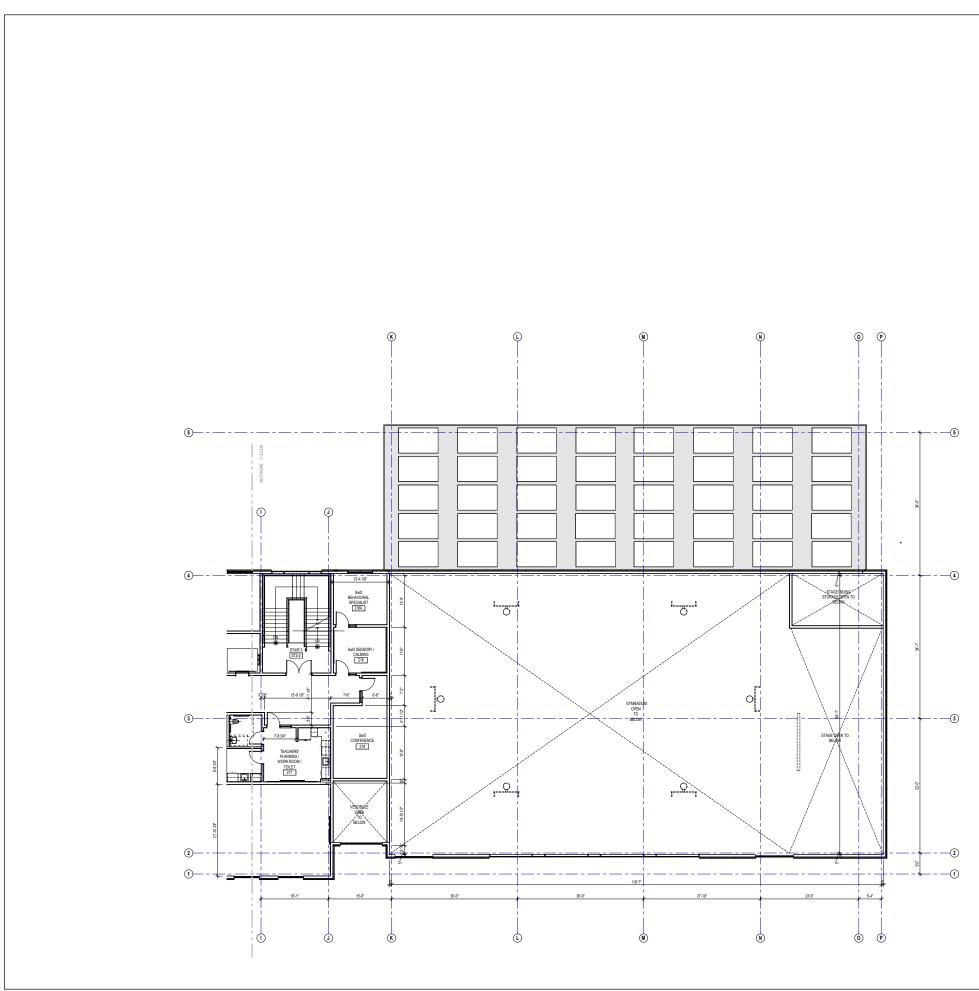


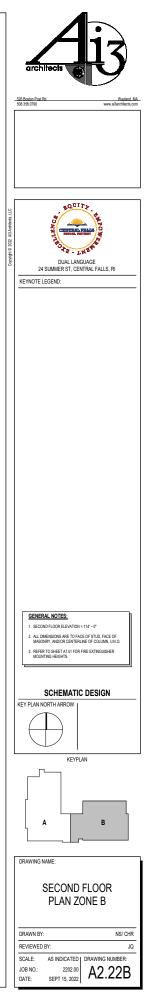
1 FIRST FLOOR PLAN - ZONE B



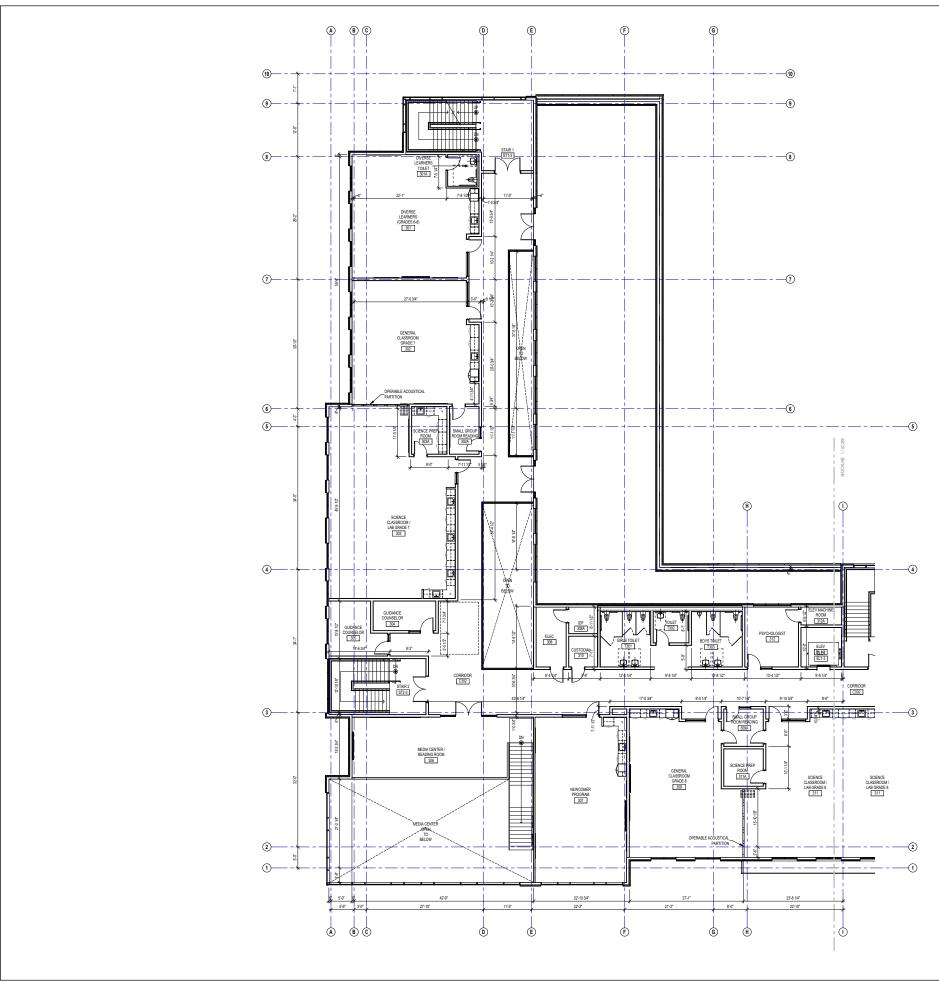
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Copyright @ 2022 W3Ardhodst,LLC	DUAL LANGUAGE 24 SUMMER ST, CENTRAL FALLS, RI KEYNOTE LEGEND:
	SECOND FLOOR ELEVATION + 114 - 0" 1. ALL DIREVIS ARE TO FACE OF STUD, FACE OF MOUNT AND OR CENTERLIE OF COLUMN, U.NO. 1. ARESTE TO DIET JA 15 FOR PIRE DETINGUISHER MOUNT RETENTS SCHEMATIC DESIGN KEYPLAN NORTH ARROW A KEYPLAN KEYPLAN C MOUNT RETENTS C MOUNT RETENTS C M
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1 SECOND FLOOR PLAN - ZONE A



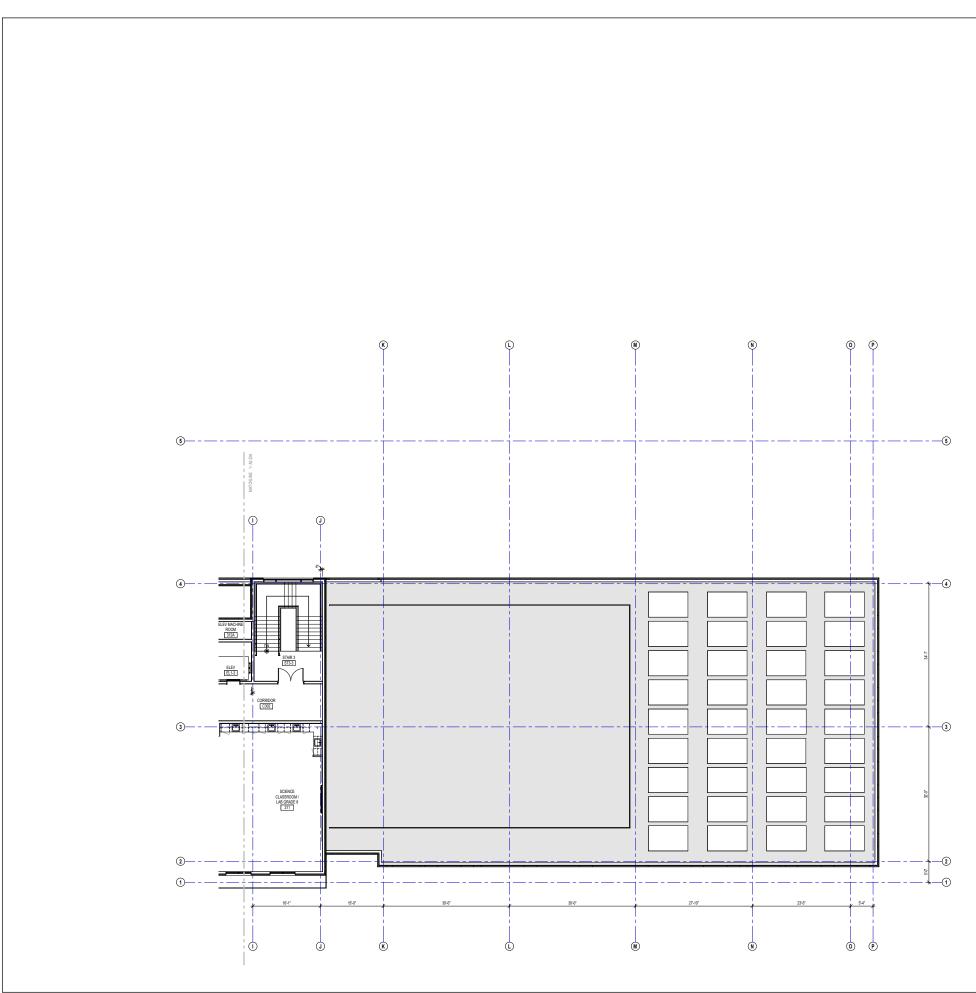


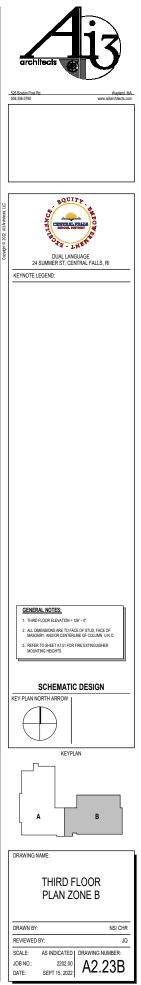
1 SECOND FLOOR PLAN - ZONE B



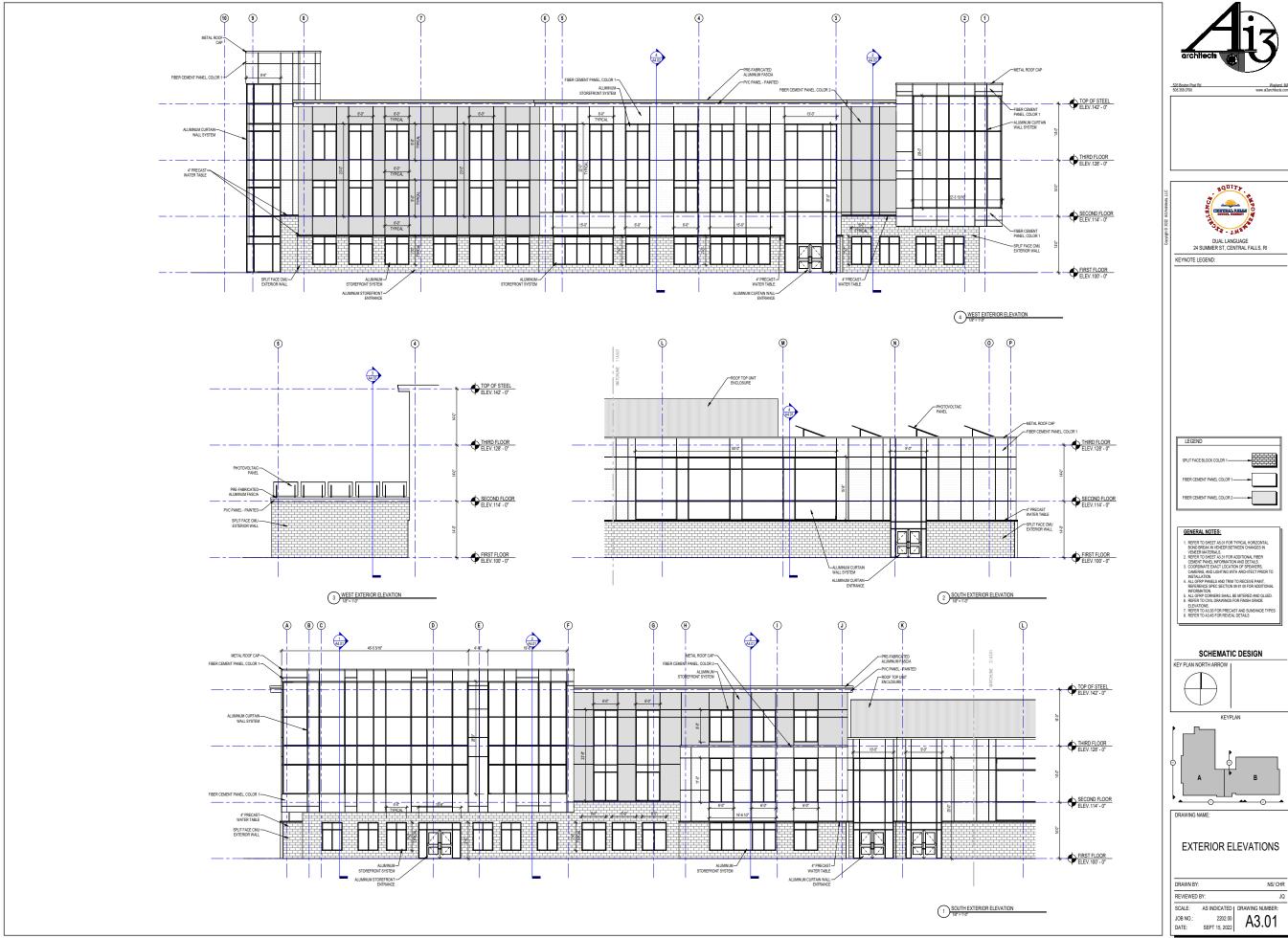
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Copyright © 2022 A3 Andrheds, LLC	DUAL LANGLAGE 24 SUMMER ST, CENTRAL FALLS, RI KEYNOTE LEGEND:
	ENERGAL NOTES: I. THING FLOOR ELEVATION + 127 - 07 ALL DIMENSIONS ARE TO FACE OF STUD, FACE OF MACONTY, ADDR CENTERLIER OF COLUM, UN 0. A. EREPT OF DIET 7.35 FOR FRIE EXTINGUISHER MOUNTING HEIGHTS SCHEMATIC DESIGN KEY PLAN NORTH ARROW
	KEYPLAN
	DRAWING NAME: THIRD FLOOR PLAN ZONE A
	DRAWN BY: NS/CHR REVIEWED BY: JO SCALE: AS INDICATED JOB NO: 2202.00 DATE: SEPT 15, 2022

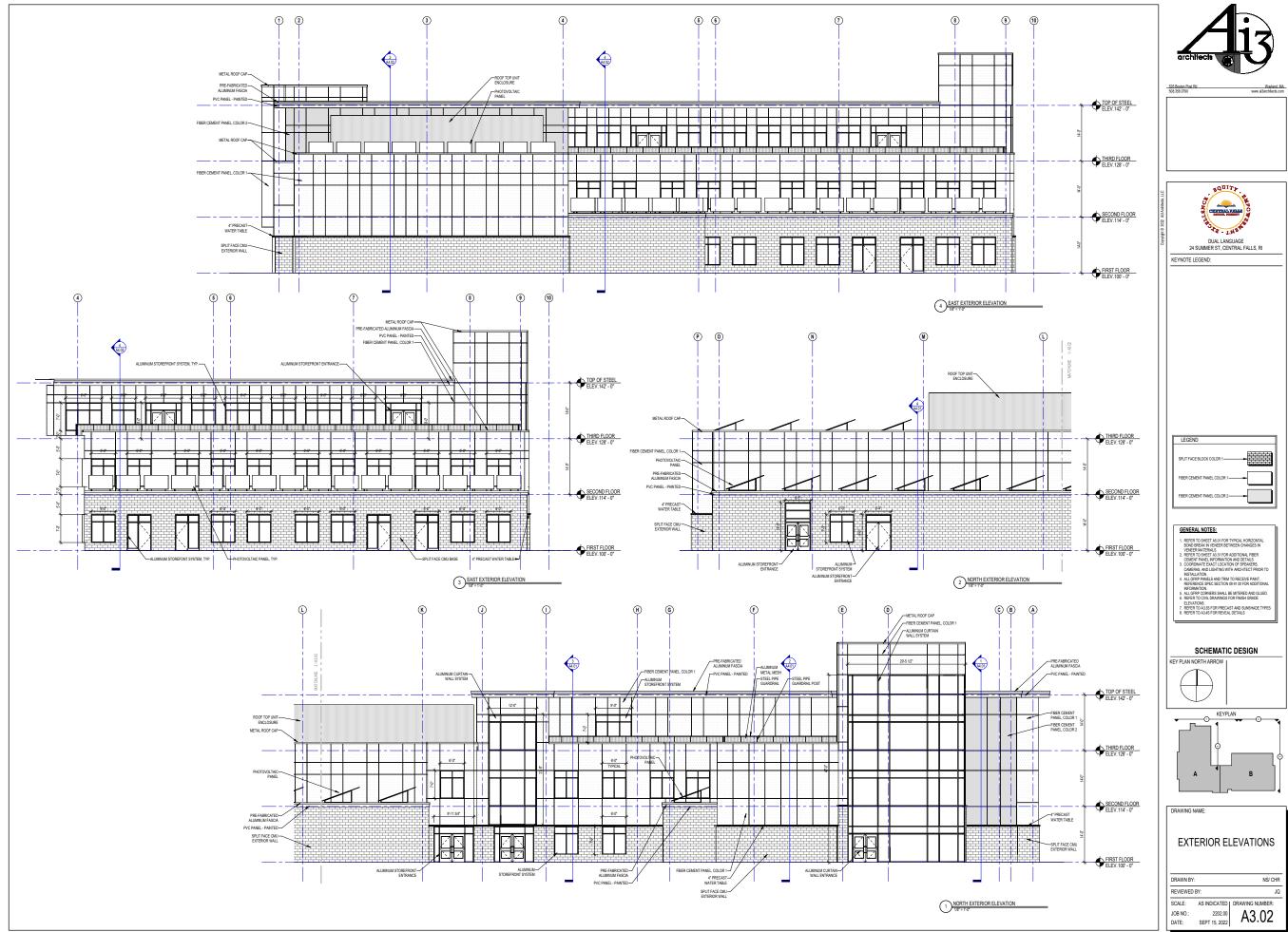
1 THIRD FLOOR PLAN - ZONE A

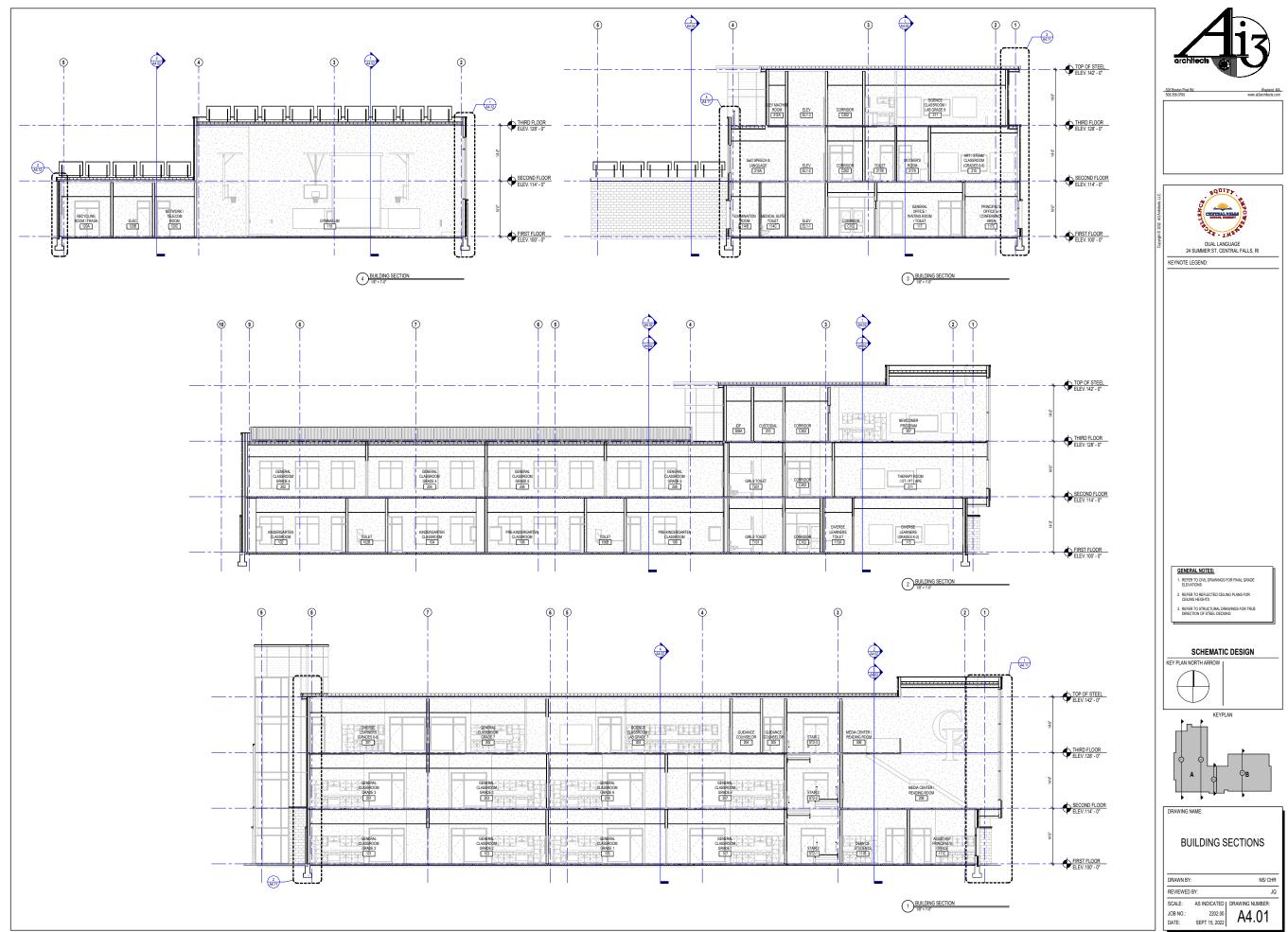


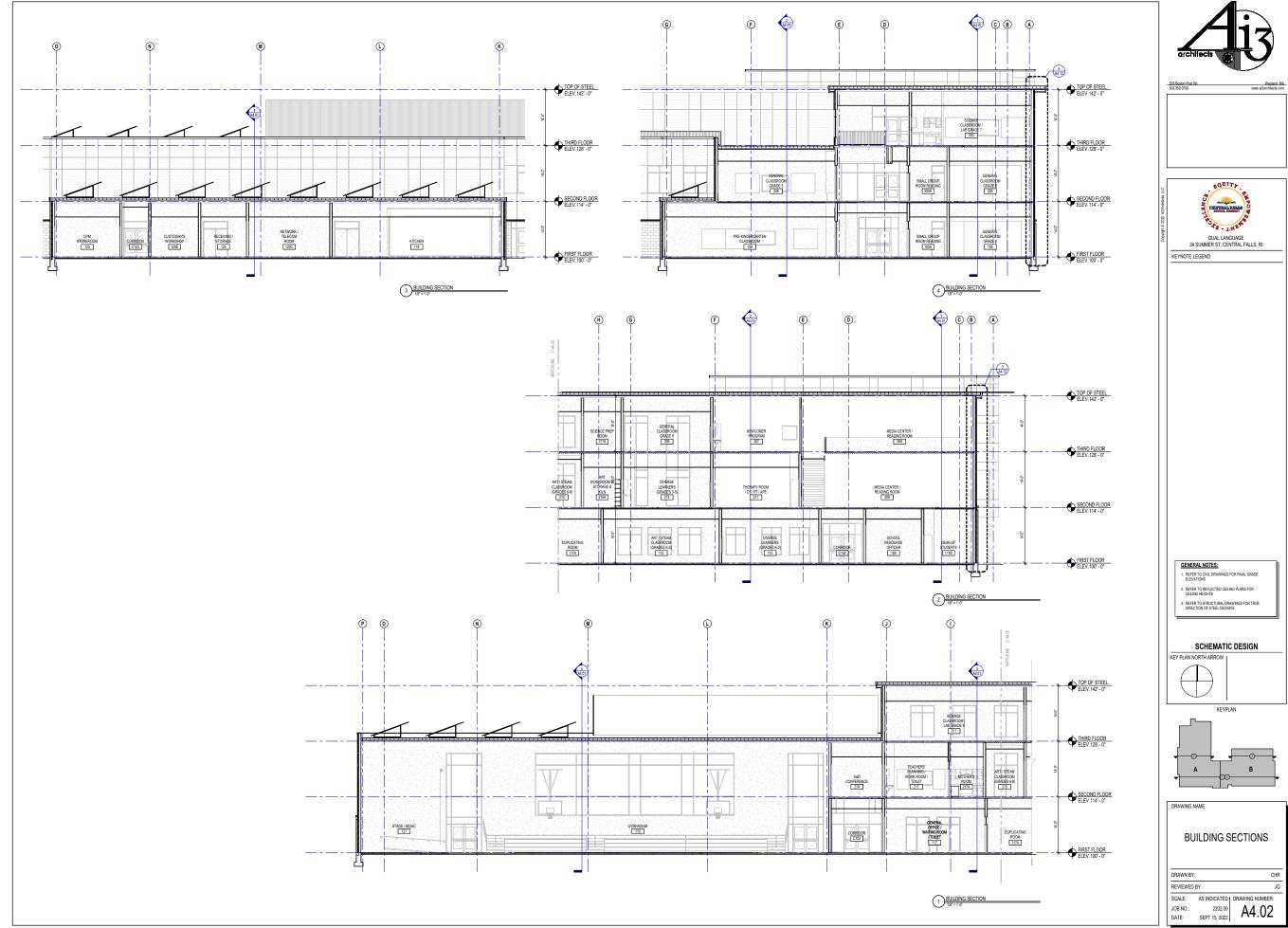


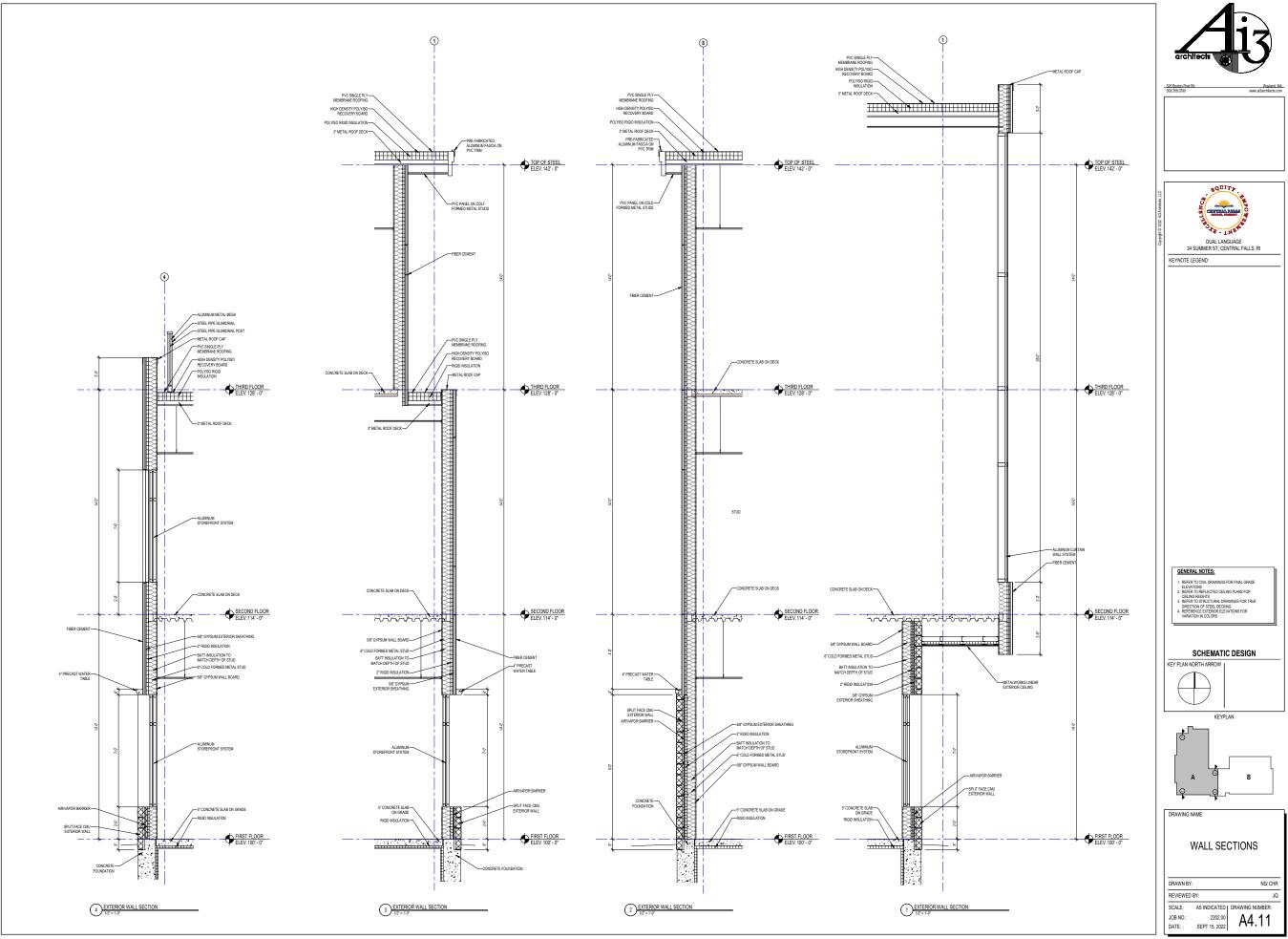
1 THIRD FLOOR PLAN - ZONE B

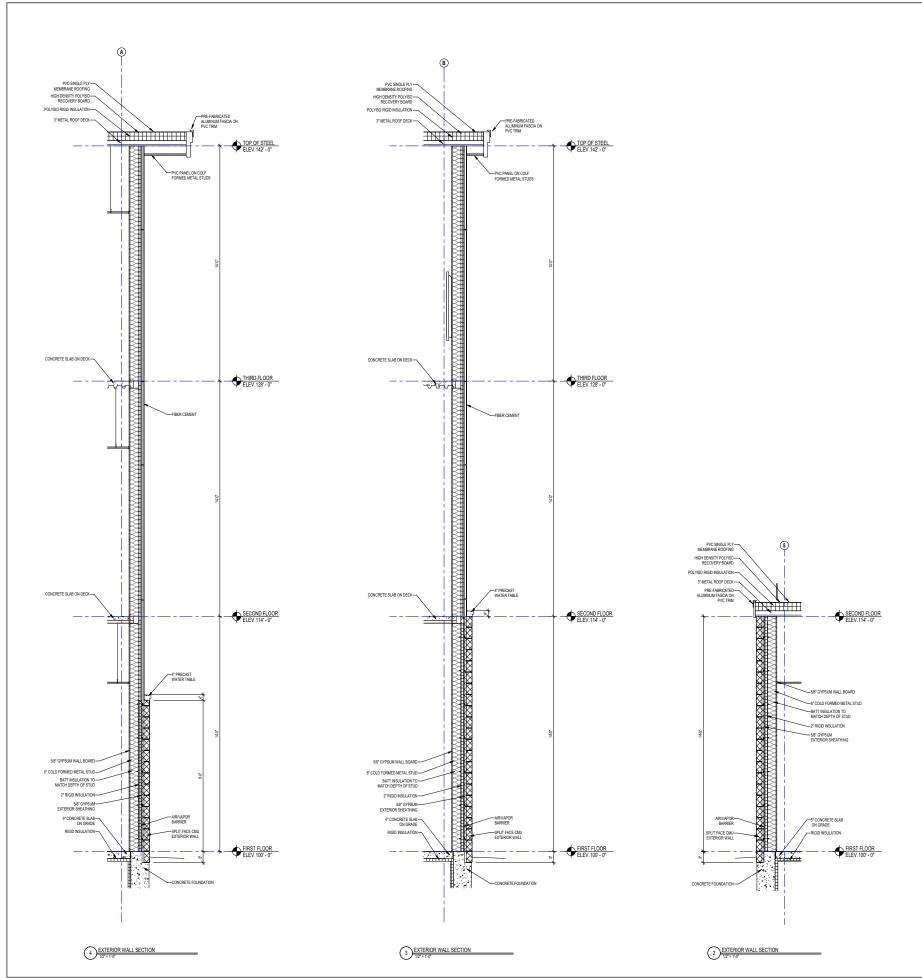


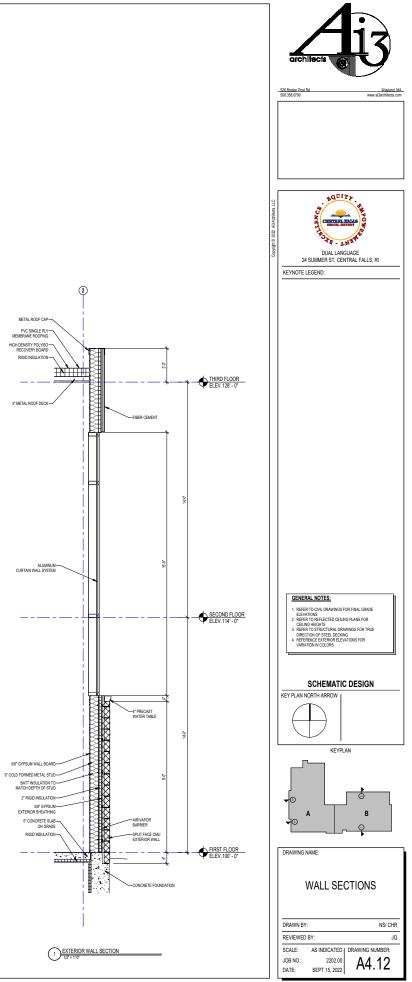










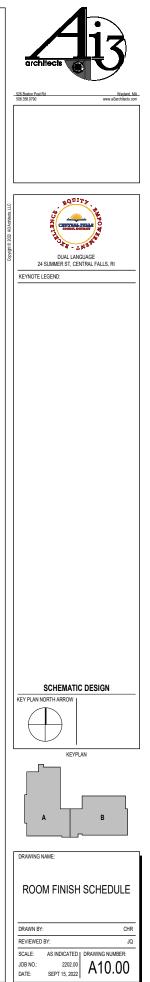


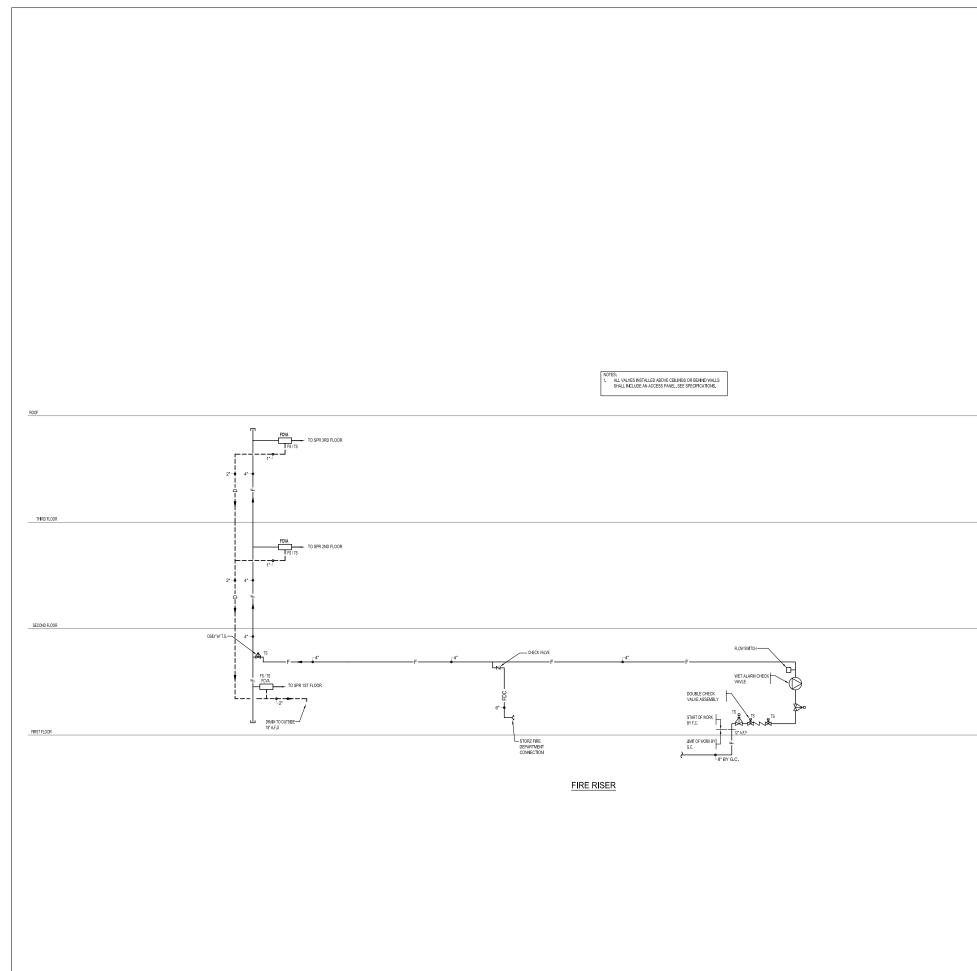
THIRD FL	OOR		FLOOR MATERIAL MATERIAL		WALL	MATERIAL			NOTES
ROOM #	ROOM NAME	FLOOR MATERIAL		N	E	S	W	CEILING	
301	DIVERSE LEARNERS (GRADES 6-8)	LIN	RB	P	P	P	P	ACT-1	
301A	DIVERSE LEARNERS TOILET	PT		PT/EP	PT/EP	PT / EP	PT/EP	EP	
302	GENERAL CLASSROOM GRADE 7	LIN	RB	Р	P	Р	Р	ACT - 1	
302A	SMALL GROUP ROOM READING	LIN	RB	Р	P	Р	Р	ACT-1	
303	SCIENCE CLASSROOM / LAB GRADE 7	LIN	RB	Р	Р	P	Р	ACT - 1	
303A	SCIENCE PREP ROOM	LIN	RB	Р	P	P	Р	ACT - 1	
304	GUIDANCE COUNSELOR	CPT	RB	P	P	P	P	ACT - 3	
305	GUIDANCE COUNSELOR	CPT	RB	P	P	P	P	ACT - 3	
306	MEDIA CENTER / READING ROOM	CPT	RB	P	P	P	P	ACT - 2	
307	NEWCOMER PROGRAM	CPT	RB	Ρ	Ρ	P	P	ACT - 3	
308	ELEC	CONC. PAINTED	RB	P	P	P	P	EXP	
308A	IDF	SCRF	RB	P	P	P	P	ACT - 3	
309	GENERAL CLASSROOM GRADE 8	LIN	RB	P	P	P	P	ACT - 1	
309A	SMALL GROUP ROOM READING	LIN	RB	P	P	P	P	ACT - 1	
310	CUSTODIAL	CONC. PAINTED	RB	Ρ	Р	P	P	EXP	
311	SCIENCE CLASSROOM / LAB GRADE 8	LIN	RB	Р	P	Р	P	ACT - 1	
311A	SCIENCE PREP ROOM	LIN	RB	Р	P	Р	P	ACT - 1	
312	PSYCHOLOGIST	CPT	RB	Р	P	Р	P	ACT - 3	
312A	ELEV MACHINE ROOM	CONC. PAINTED	RB	Р	P	Ρ	Р	EXP	
C301	CORRIDOR	LIN		PT/P	PT / P	PT/P	PT / P	ACT-3	
C302	CORRIDOR	LIN		PT/P	PT / P	PT/P	PT/P	ACT - 3	
EL1-5	COLLABORATION	LIN	RB	P	Ρ	P	Ρ	ACT - 1	
ST1-3	STAIR 1	LIN/R	PT	PT/P	PT / P	PT/P	PT/P	ACT-3	
ST2-3	STAIR 2	LIN/R		PT/P	PT / P	PT/P	PT / P	ACT-3	
ST3-3	STAIR 3	LIN / R		PT/P	PT / P	PT/P	PT / P	ACT-3	
T301	GIRLS TOILET	PT		PT/EP	PT / EP	PT / EP	PT / EP	EP	
T302	TOILET	PT		PT/EP	PT / EP	PT / EP	PT / EP	EP	
T303	BOYS TOILET	PT	PT	PT/EP	PT/EP	PT / EP	PT/EP	EP	

SECOND	FLOOR		BASE		WALL	MATERIAL			
ROOM #	ROOM NAME	FLOOR MATERIAL	MATERIAL	N	E	S	W	CEILING	NOTES
201	GENERAL CLASSROOM GRADE 3	LIN	RB	P	P	P	P	ACT - 1	1
201A	SMALL GROUP ROOM BEADING	UN	RB	P	P	P	P	ACT - 1	
202	GENERAL CLASSROOM GRADE 4	LIN	RB	P	P	P	P	ACT - 1	
202A	SMALL GROUP BOOM BEADING	LN	RB	P	P	P	P	ACT - 1	
202A	COLLABORATION	LIN	RB	P	P	P	P	ACT - 1	
202B	COLLABORATION	IN	RB	P	P	P	P	ACT - 1	
203	GENERAL CLASSROOM GRADE 3	LIN	RB	P	P	P	P	ACT - 1	
204	GENERAL CLASSROOM GRADE 4	LIN	RB	Р	Р	Р	P	ACT - 1	
205	GENERAL CLASSROOM GRADE 6	LIN	RB	Р	Р	Р	P	ACT-1	
205A	SMALL GROUP ROOM READING	LIN	RB	Р	Р	Р	P	ACT-1	
206	GENERAL CLASSROOM GRADE 5	LIN	RB	P	P	P	P	ACT-1	
206A	SMALL GROUP ROOM READING	LIN	RB	P	P	P	P	ACT - 1	
207	GENERAL CLASSROOM GRADE 6	LIN	RB	P	P	P	P	ACT - 1	
208	GENERAL CLASSROOM GRADE 5	LIN	RB	P	P	P	P	ACT - 1	
209	MEDIA CENTER / READING ROOM	CPT	RB	Р	Р	Р	Р	ACT - 2	
210	ELEC	CONC. PAINTED	RB	Р	Р	Р	Р	EXP	
211	THERAPY ROOM / OT / PT / APE	LIN	RB	Р	Р	Р	P	ACT-1	
212	CUSTODIAL	CONC. PAINTED	RB	Р	Р	Р	Р	EXP	
213	DIVERSE LEARNERS (GRADES 3-5)	LIN	RB	Р	Р	Р	P	ACT-1	
213A	TOLET	PT	PT	PT/EP	PT/EP	PT/EP	PT/EP	EP	
214	SwD READING SPECIALIST	LIN	RB	Р	P	P	Р	ACT - 1	
214A	SwD SPEECH & LANGUAGE	LIN	RB	Р	P	Р	P	ACT - 1	
214B	RESTORATIVE SPECIALIST	LIN	RB	Р	P	Р	P	ACT - 1	
215	ART / STEAM CLASSROOM (GRADES 6-8)	LIN	RB	Р	Р	Р	Р	ACT-1	
215A	ART WORKROOM w/ STORAGE & KILN	LIN	RB	Р	P	P	P	ACT - 1	
217	TEACHERS' PLANNING / WORK ROOM / TOILET	LIN	RB	Р	P	P	P	ACT - 1	
217A	MOTHER'S ROOM	LIN	RB	Р	P	P	P	ACT - 1	
217B	TOLET	PT	PT	PT / EP	PT/EP	PT / EP	PT/EP	EP	
218	SwD SENSORY / CALMING	LIN	RB	Р	P	Р	P	ACT - 1	
218A	SwD BEHAVIORAL SPECIALIST	LIN	RB	Р	Р	Р	P	ACT - 1	
219	SwD CONFERENCE	CPT	RB	Р	Р	Р	P	ACT - 3	
C201	CORRIDOR	LIN	PT	PT / P	PT/P	PT/P	PT / P	ACT - 3	
C202	CORRIDOR	LIN	PT	PT / P	PT/P	PT/P	PT / P	ACT - 3	
ST1-2	STAIR 1	LIN/R	PT	PT / P	PT/P	PT/P	PT / P	ACT - 3	
ST2-2	STAIR 2	LIN/R	PT	PT / P	PT/P	PT/P	PT / P	ACT - 3	
ST3-2	STAIR 3	LIN/R	PT	PT / P	PT/P	PT/P	PT/P	ACT - 3	
T201	GIRLS TOILET	PT	PT	PT / EP	PT/EP	PT/EP	PT / EP	EP	

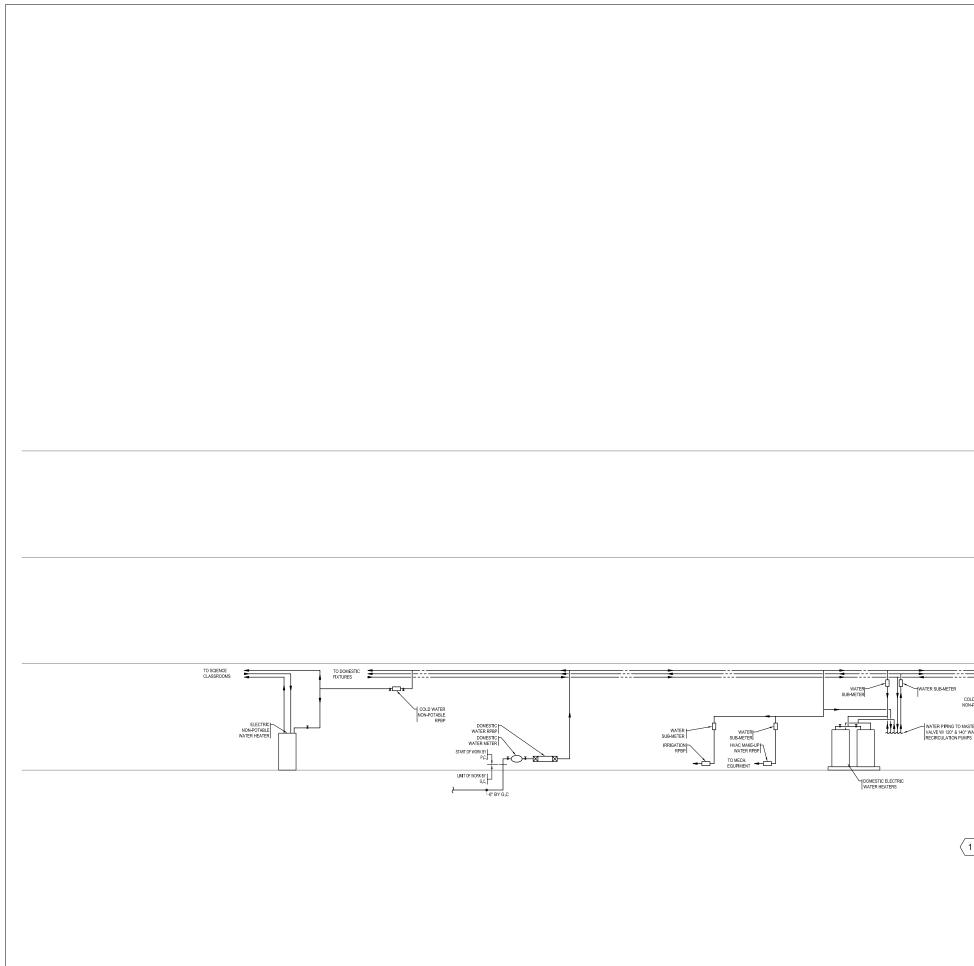
FIRST FL	AST FLOOR BASE					WATERIAL			
ROOM #	ROOM NAME	FLOOR MATERIAL	MATERIAL	N	E	S	W	CEILING	NOTES
101	GENERAL CLASSROOM GRADE 2	LIN	RB		10	0	P	ACT-1	
101A	GENERAL CLASSROOM GRADE 2 SMALL GROUP ROOM READING	LIN	RB	P	P	P	P	ACT-1 ACT-1	
101A	KINDERGARTEN CLASSROOM	LIN	RB	P	P	P	P	ACT-1	
102 102A	SMALL GROUP ROOM READING	LIN	RB	P	P	P	P	ACT-1	
102B	TOLET	PT	PT	PT / EP	PT/EP	PT / EP	PT / EP	EP	
103	GENERAL CLASSROOM GRADE 2	LIN	RB	P	P	P	P	ACT - 1	
104	KINDERGARTEN CLASSROOM	LIN	RB	P	P	P	Р	ACT - 1	
104A	TOILET	PT	PT	PT / EP	PT / EP	PT / EP	PT / EP	EP	
105	GENERAL CLASSROOM GRADE 1	LIN	RB	P	Р	P	Ρ	ACT - 1	
105A	SMALL GROUP ROOM READING	LIN	RB	Ρ	Ρ	Р	Ρ	ACT - 1	
106	PRE-KINDERGARTEN CLASSROOM	LIN	RB	Ρ	Ρ	Ρ	Р	ACT-1	
106A	SMALL GROUP ROOM READING	LIN	RB	P	Р	P	P	ACT-1	
106B	TOLET	PT	PT	PT / EP	PT / EP	PT / EP	PT / EP	EP	
107	GENERAL CLASSROOM GRADE 1	LIN	RB	P	P	P	P	ACT-1	
108	PRE-KINDERGARTEN CLASSROOM	LIN	RB	P	P	P DT LED	P	ACT-1	
108A 109	TOILET SCHOOL RESOURCE OFFICER	PT CPT	PT RB	PT / EP	PT / EP	PT/EP	PT / EP	EP ACT-3	
109	ELEC	CONC. PAINTED	RB	r D	0	r D	P	ACT-3 EXP	
111	ADMINISTRATION WAITING	LIN LIN	PT	P PT/P	PT/P	P PT/P	PT/P	ACT-3	
111A	TEACHERS' MAIL AND TIME ROOM	LIN	PT	PT/P PT/P	PT/P PT/P	PT/P PT/P	PT/P PT/P	ACT-3	
111B	DEAN OF STUDENTS	CPT	RB	P	P	P	P	ACT-3	
111C	ASSISTANT PRINCIPAL'S OFFICE	CPT	RB	P	P	P	P	ACT-3	
111D	PRE-K COORDINATOR	CPT	RB	Ρ	Р	P	Р	ACT-3	
112	CUSTODIAL	CONC. PAINTED	RB	P	Р	Ρ	P	EXP	
113	DIVERSE LEARNERS (GRADES K-2)	LIN	RB	Ρ	Р	Р	P	ACT - 1	
113A	DIVERSE LEARNERS TOILET	PT	PT	PT/EP	PT / EP	PT / EP	PT / EP	EP	
114	NURSE'S OFFICE / WAITING ROOM	LIN	RB	P	Ρ	Ρ	P	ACT-3	
114A	RESTING	LIN	RB	P	Р	Р	P	ACT-3	
114B	EXAMINATION ROOM	LIN	RB	P	Р	P	Р	ACT-3	
114C	MEDICAL SUITE TOILET	PT	PT	PT / EP	PT / EP	PT / EP	PT / EP	EP	
115	ART / STEAM CLASSROOM (GRADES K-5) GENERAL OFFICE / WAITING ROOM / TOILET	LIN	RB PT	P PT/P	P PT/P	P PT/P	P PT/P	ACT - 1 ACT - 3	
117A	DUPLICATING ROOM	CPT	RB	P1/P	P1/P	P1/P	P1/P	ACT-3	
1178	RECORDS ROOM	CPT	RB	P	P	P	P	ACT-3	
1170	PRINCIPAL'S OFFICE W/ CONFERENCE AREA	CPT	RB	P	P	P	P	ACT-3	
117D	PRINCIPAL'S SECRETARY / WAITING	CPT	RB	P	P	P	P	ACT-3	
118	KITCHEN	QT	QT	P	Р	P	Р	ACT - 3	
119	GYMNASIUM	WAF	WAB	P	Р	P	Р	EXP	
120	RECEIVING / STORAGE	CONC. PAINTED	RB	P	Р	P	Р	EXP	
120A	RECYCLING ROOM / TRASH	CONC. PAINTED	RB	Ρ	Р	Р	Р	EXP	
120B	ELEC	CONC. PAINTED	RB	Ρ	P	P	P	EXP	
120C	NETWORK / TELECOM ROOM	SCRF	RB	Р	Р	P	P	ACT - 3	
120D	CUSTODIAN'S OFFICE	LIN	PT	PT/P	PT/P	PT / P	PT / P	ACT - 3	
120E	CUSTODIAN'S WORKSHOP	CONC. PAINTED	RB	P	P	2	P	EXP	
121 121A	STAGE / MUSIC STAGE / MUSIC STORAGE	LAM	LAMB	r D	P D	r	P	EXP	
121A 122	HEALTH INSTRUCTOR'S OFFICE	LAM	PT	P PT/P	PT/P	P PT/P	PT/P	ACT-3	
122	GYM STOREROOM	CONC. PAINTED	RB	P	P1/P	P	PI/P	EXP	
123	CHAIR / TABLE / EQUIPMENT STORAGE	CONC. PAINTED	RB	P	P	P	P	EXP	
C101	CORRIDOR	LIN	PT	PT/P	PT/P	PT / P	PT / P	ACT - 3	
C101A	CORRIDOR	LIN / MAT	PT	PT/P	PT/P	PT/P	PT / P	ACT - 3	
C101B	VESTIBULE	LIN / MAT	PT	PT/P	PT / P	PT / P	PT / P	ACT - 3	
C101C	VESTIBULE	LIN / MAT	PT	PT/P	PT / P	PT / P	PT / P	ACT - 3	
C101D	VESTIBULE	LIN / MAT	PT	PT/P	PT/P	PT / P	PT / P	ACT - 3	
C102	CORRIDOR	LIN	PT	PT/P	PT / P	PT / P	PT / P	ACT - 3	
C102A	CORRIDOR	LIN / MAT	PT	PT/P	PT/P	PT/P	PT / P	ACT - 3	
C102A	COLLABORATION	LIN	RB	P	P	P	P	ACT - 1	
C102B	COLLABORATION	LIN	RB	P	P	P DT 10	P	ACT - 1	
C103 EL1-1	CORRIDOR	LIN	PT MFR	PT / P MFR	PT / P MFR	PT / P MFR	PT / P MFR	ACT - 3 MFR	
EL1-1 ST1-1	ELEV STAIR 1	R LIN/R	PT	MFR PT/P	MFR PT/P	MFR PT/P	MFR PT/P	MFR ACT-3	
ST2-1	STAIR 1 STAIR 2	LIN/R LIN/R	PT	PT/P PT/P	PT/P	PT/P	PT/P	ACT-3	
ST2-1 ST3-1	STAIR 2 STAIR 3	LIN/R LIN/R	PT	PT/P PT/P	PT/P	PT/P	PT/P	ACT-3 ACT-3	
T101	GIRLS TOILET	PT	PT	PT/P PT/EP	PT/P PT/EP	PT/P PT/EP	PT/P PT/EP	EP	
T102	TOLET	PT	PT	PT/EP	PT/EP	PT/EP	PT/EP	EP	
T102	BOYS TOLET	PT	PT	PT/EP	PT/EP	PT/EP	PT / EP	EP	

GENERAL NOTES	ABBRE	VIATIONS / FINISH LEC	GEND	
1. GENERAL CONTRACTOR TO COORDINATE ALL SLAB DEPRESSIONS AS REQUIRED WITH FINISH FLOOR SYSTEMS AND MATERIALS SPECIFIED.	ACT	ACOUSTICAL CEILING TILE REFER TO RCP FOR TYPE (SECTION 09 51 00)	PT	PORCELAIN TILE (SECTION 09 30 19)
2. SPACES NOT LISTED SHALL RECEIVE THE SAME FINISHES AS SIMILAR FUNCTION SPACES.	CONC.	CONCRETE PAINTED WITH	QT	QUARRY TILE (SECTION 09 30 16)
 "EXP" DENOTES EXPOSED TO VIEW STRUCTURAL STEEL, METAL DECK, FABRICATED METAL, DUCTWORK, PIPES & CONDUIT REQUIRED TO BE PAINTED. ALL WALLS IN ROOMS NOTED AS EXPOSED SHALL HAVE A PAINT TRANSITION LINE. HEIGHT TO BE COORDINATED IN FIELD. 	PAINTED	EPOXY DECK ENAMEL (SECTION 09 96 00)	R	RUBBER FLOORING (SECTION 09 65 23)
4. EXPOSED CONCRETE FLOORS TO BE PAINTED, U.N.O.	CONC. POLISHED	POLISHED CONCRETE FINISHING (SECTION 03 35 10)	RA	ATHLETIC RUBBER FLOORING (SECTION 09 65 23)
5. REFER TO G0.01 GENERAL INFORMATION & CODE ANALYSIS.	CB	BROADLOOM CARPET (SECION 09 68 00)	RB	RUBBER BASE
 REFER TO INTERIOR ELEVATIONS FOR VARIATION IN TILE HEIGHT AND EXTENTS: GANG TOLET ROOMS SHALL HAVE WALL TILE INSTALLED TO CELING ON WET WALLS, U.N.O. SINGLE TOLET ROOMS SHALL HAVE WALL TILE INSTALLED TO CELING ON WET WALLS U.N.O. SHOWER ALCOVES SHALL HAVE WALL TILE INSTALLED TO CELING ON MET WALLS U.N.O. 	СТ	CERAMIC WALL TILE (SECTION 09 30 13)	RSF	(SECTION 09 65 23) RESILIENT SHEET FLOORING (SECTION 09 65 16)
 PROVIDE ALLIMINUM EDGE TRIM AT ALL OUTSIDE CORNER AND EXPOSED EDGE CONDITIONS OF PORCELAN WALL TILE. UNLESS NOTED OTHERWISE, REFER TO TYPICAL DETAILS ON A7.71 	CPT	CARPET TILE (SECTION 09 68 13)	RTF	RESILIENT TILE FLOORING (SECTION 09 65 19)
8. PROVIDE CERAMIC TILE ON ALL WALLS OF KITCHEN AND DRY FOOD STORAGE. TILE TO RUN FROM ENISH FLOOR TO MINIMUM & AROVE ACT CELLING PATTERN TO CONSIST OF ONE FIELD COLOR.	CMT	CERAMIC MOSAIC TILE (SECTION 09 30 13)	SSA	SPRAY-ON SOUND ABSORPTION (SECTION 07 21 29)
AND UP TO 15% ACCENT TILES. REFER TO SAMPLE PATTERNS IN AT SERIES FOR ADDITIONAL INFORMATION.	CMTB	CERAMIC MOSAIC TILE BASE (SECTION 09 30 13)	SCRF	STATIC-CONTROL RESILIENT FLC (SECTION 09 65 36)
9. REFER TO REFLECTED CEILING PLAN ACT TYPES. PROVIDE ACT RETENTION CLIPS AT ALL TOILET ROOMS, LOCKER ROOMS, VESTBULES & FIRE RATED SPACES.	EP	EPOXY PAINT (SECTION 09 91 00)	wc	VINYL WALL COVERING (SECTION 09 72 00)
10. REFER TO REFLECTED CEILING PLAN FOR CEILING HEIGHTS, ACT TYPES & CEILING EXTENTS. PROVIDE ACT RETENTION CLIPS AT ALL TOILET ROOMS, VESTIBULES & FIRE RATED SPACES.	EXP	EXPOSED (SEE GENERAL NOTE 3)	WWCR	VINYL WALL CLADDING - RIGID SI (SECTION09 72 16)
11. MULTIPLE COLORS / PATTERNING REQUIRED FOR FLOORING FINISHES AND WALL TILES. REFER TO A7 SERIES FOR SAMPLE PATTERN LAYOUTS AND COLOR VARIATION. THESE DRAWINGS ARE INTERNET TO DEMONSTRATE THE VARIETY OF COLOR AND PATTERNING THAT WILL BE	FRP	FIBERGLASS REINFORCED PANEL (SECTION 09 77 20)	WD	WOOD (SECTION 06 20 00)
REQUIRED, THOUGH FINAL SELECTIONS WILL BE ISSUED AFTER APPROVAL OF SHOP DRAWINGS AND PRODUCT LITERATURE FROM INSTALLING CONTRACTOR.	LAM	LAMINATED STAGE FLOORING (SECTION 06 20 00)	WAB	WOOD ATHLETIC FLOORING VEN (SECTION 09 64 66)
12. WALL MATERIAL ON ROOM FINISH SCHEDULE REFERS TO PLAN ORIENTATION REPRESENTED IN ARCHITECTURAL DOCUMENTS, WHERE "NORTH" REFERS TO THE TOP OF THE ARCHITECTURAL DRAWING SHEFT FOR THE SPACE INDICATED	LAMB	LAMINATED STAGE FLOORING BASE (SECTION 06 20 00)	WAF	WOOD ATHLETIC FLOORING (SECTION 09 64 66)
13. UNLESS NOTED OTHERWISE, GYPSUM SURFACE BEHIND VINYL WALL COVERINGS TO BE LEVEL 4 FINISH AND PRIMED REVICE TO WALL COVERING IS INSTALLED, GYPSUM SURFACES BEHIND VINYL	MAT	ENTRANCE MATS & GRATES (SECTION 12 48 13)	WSF	WOOD STRIP FLOORING (SECTION 09 64 29)
SIGNAGE GRAPHICS TO BE LEVELS FINISH AND PRIMED PRIOR TO GRAPHIC IS INSTALLED.	MFR	MANUFACTURER		(acciron 08 04 28)
14. FURNISH AND INSTALL RUBBER FLOORING AT ALL ELEVATORS, BY SECTION 09 65 23. PROVIDE SAME TYPE AND COLOR RUBBER FLOORING MATERIAL AS USED AT THE STAIR LANDINGS.	Р	PAINTED (SECTION 09 91 00)		
15. STAGE FLOORING WILL BE PAINTED MASONTE BOARD. THE FLOOR PLAN SHALL IDENTIFY LOCATION OF THE TRANSITION TO ADJACENT FLOORING MATERIAL AREAS DIRECTLY UNDER FVED SEATING IN ALIDITORIUM ARE TO BE CONC. PAINTED WI EPOXY DECK ENAMEL ALL OTHER AREAS TO BE CARPET, U.N.O.				

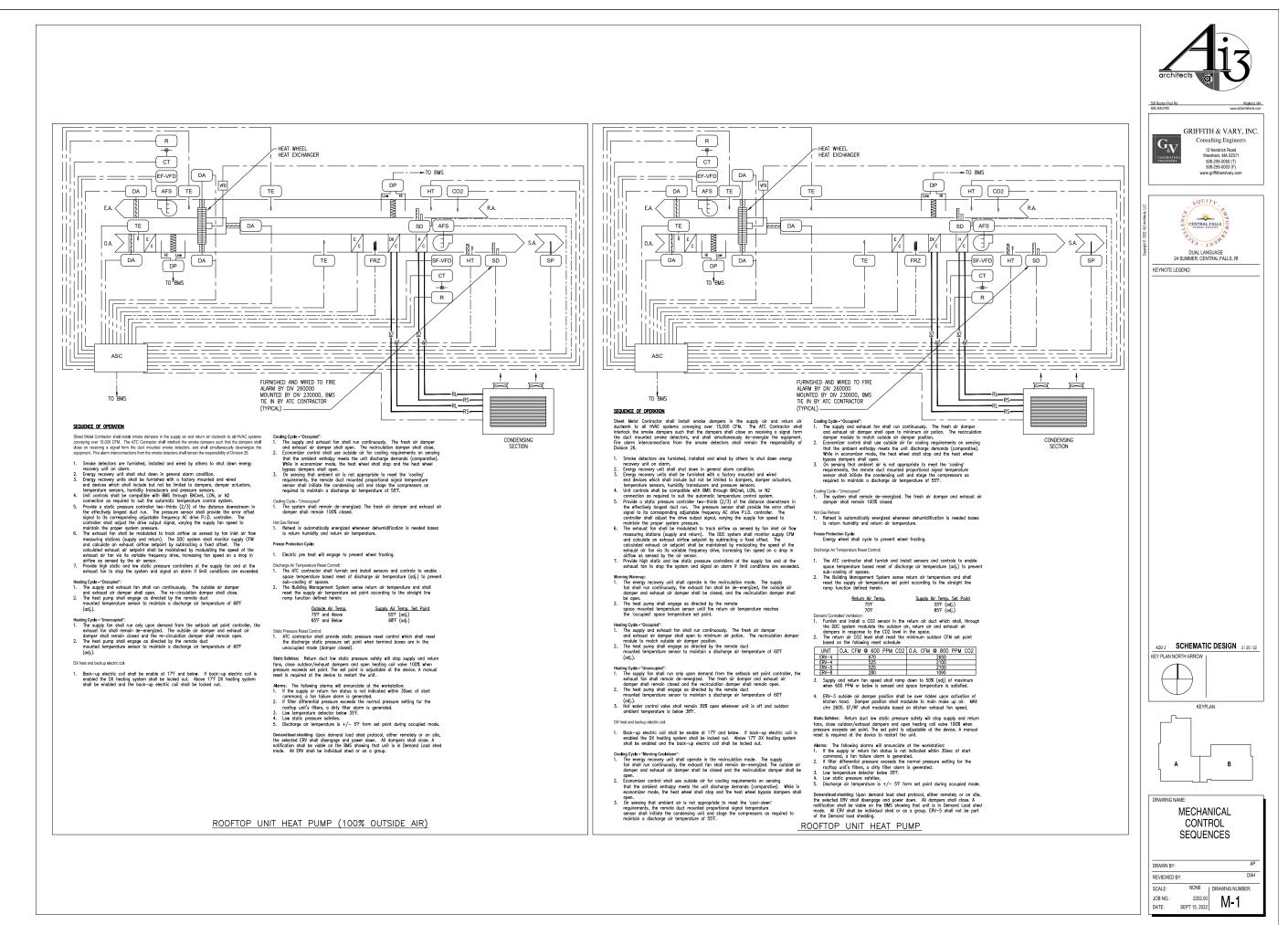


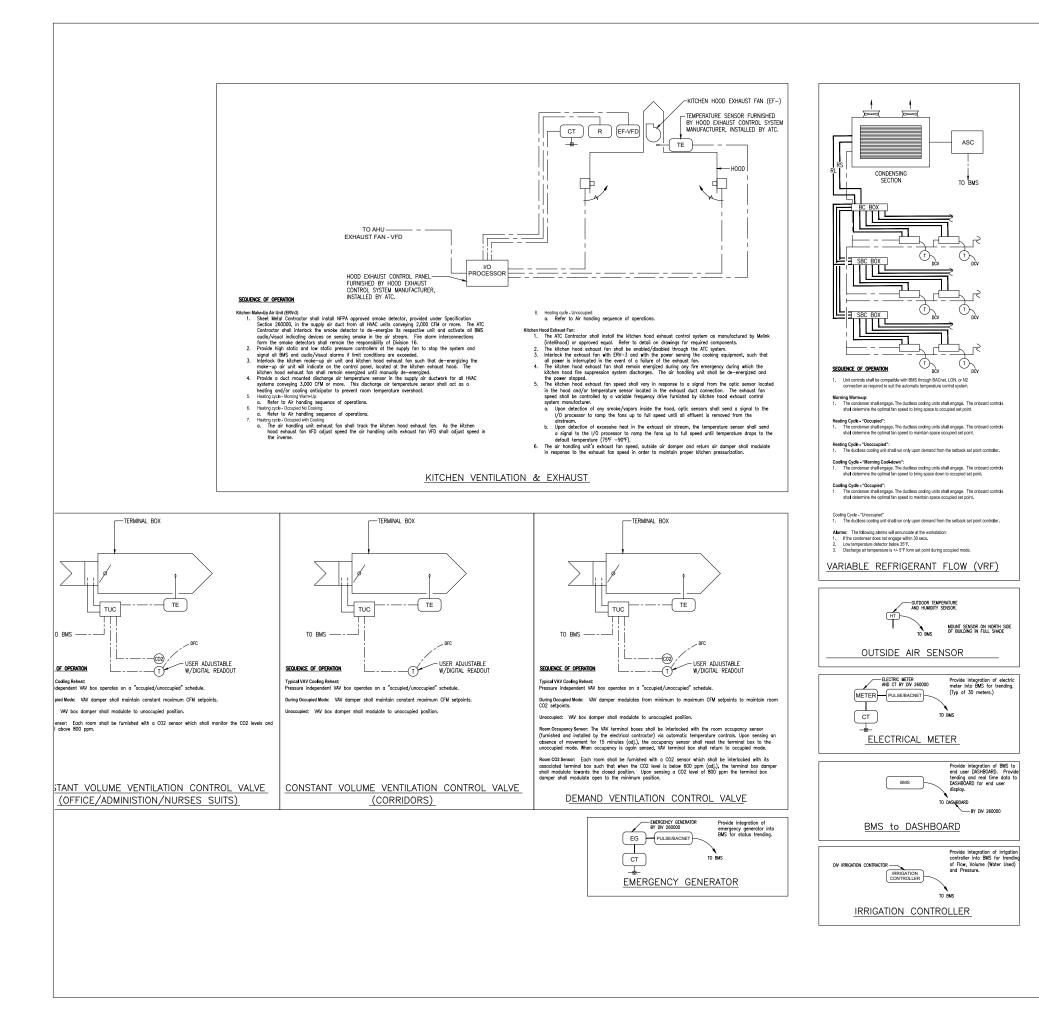


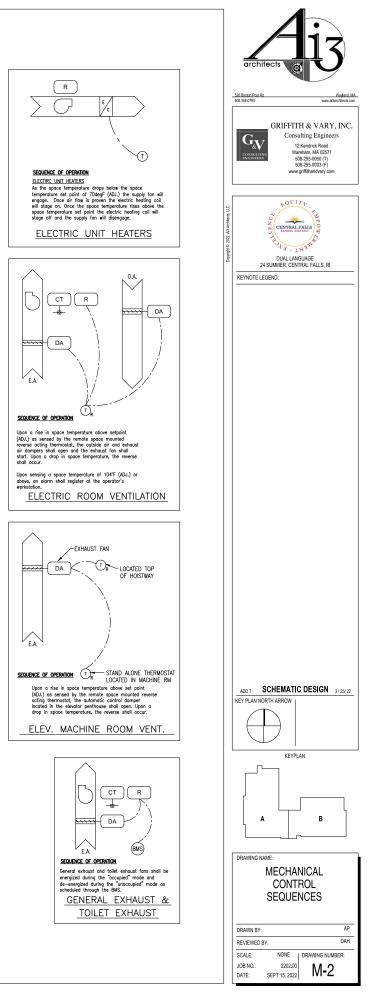
	States Part Bit Water Mark 35.55.070 West States Part Bit States Part Bit WestStates Part Bit
	UIL LANGUAGE 24 SUMMER, CENTRAL FALLS, RI KEYNOTE LEGEND:
800 ⁶	
THRD FLOOR	
SECOND FLOOR	SCHEMATIC DESIGN KEY PLAN NORTH ARROW
	FIRE PROTECTION RISER DIAGRAM

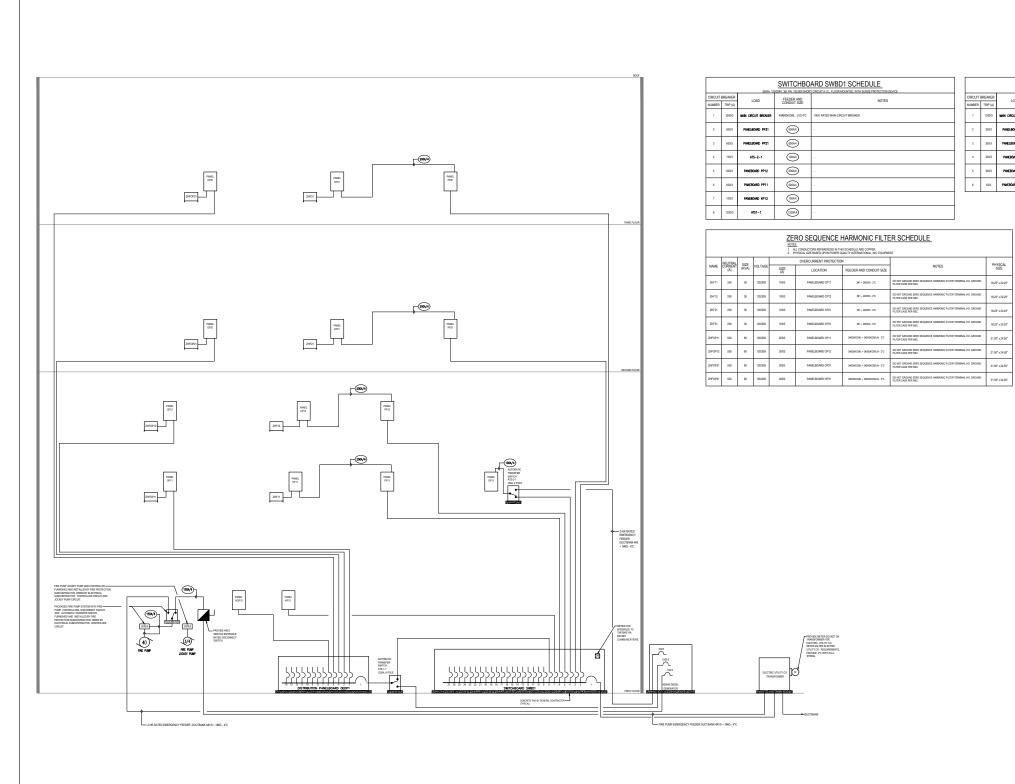


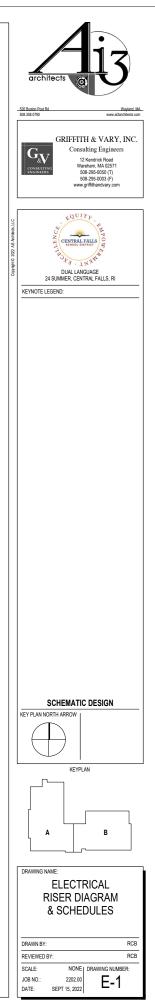
		St Booto Plot Rt St Staty 70 St St S
		GRIFFITH & VARY, INC. Consulting Engineers 12 Kendida Road Wareham, MA (257) 588-282-605 (f) 588-282-605 (f) 588-282-605 (f) 588-282-605 (f)
	Copyright © 2022 AB Architects, LLC	CENTRAL FALLS CENTRAL FALLS UNDER CENTRAL FALLS, RI 24 SUMMER, CENTRAL FALLS, RI KEYNOTE LEGEND:
ROOF		
THIRD FLOOR		
SECOND FLOOR		SCHEMATIC DESIGN
PRSTFLOOR		KEYPLAN
DOMESTIC HOT WATER RISER DIAGRAM - WATER		DRAWING NAME: PLUMBING RISER DIAGRAM
		DRAWN BY: AMD REVIEWED BY: AMD SCALE: NONE JOB NO: 2202.00 DATE: SEPT 15, 2022











PANELBOARD OEDP1 SCHEDULE			
R I)	LOAD	FEEDER AND CONDUIT SIZE	NOTES
	MAIN CIRCUIT BREAKER	(20044)	-
	PANELBOARD OP11	33344	-
	PANELBOARD OP12	33344	-
	PANEBOARD OP21	33344	-
	PANEBOARD OP31	33344	-
	PANEBOARD KOP12	5544	-