Tuckahoe Union Free School District

TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS

65 SIWANOY BLVD EASTCHESTER, N. Y. 10709

BID ISSUE APRIL 1, 2022

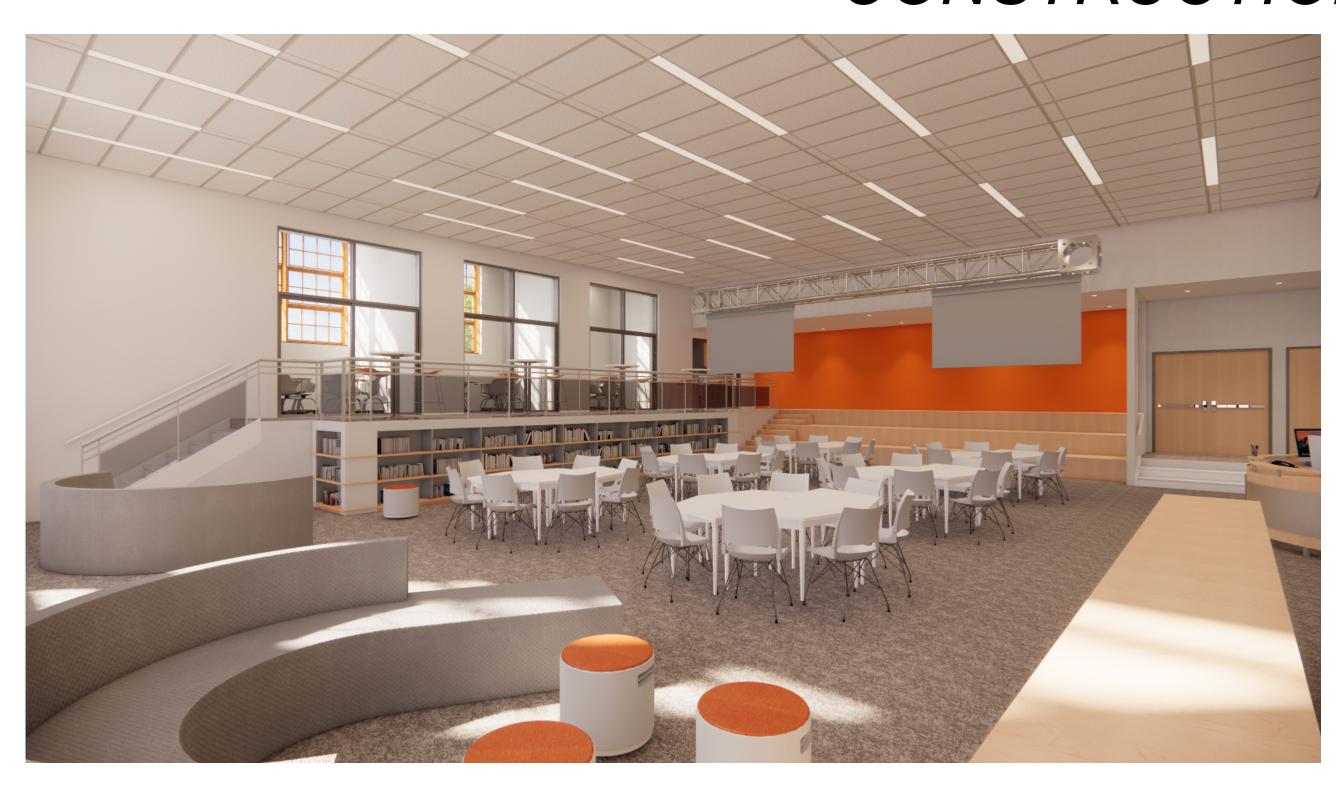
TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS

NY SED Project Control No. 66-03-02-03-0-002-024

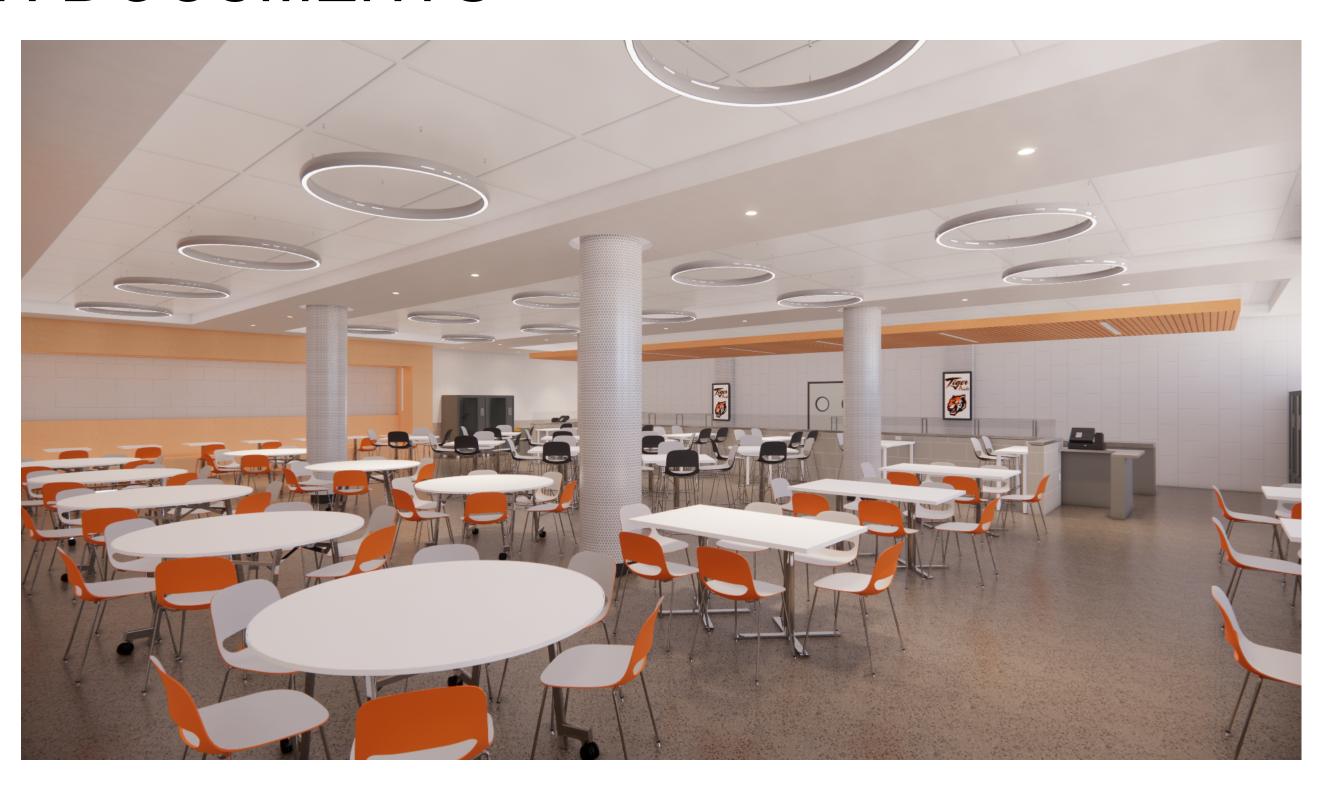
KG+D Project No. 2021-1053

DESIGN TEAM

CONSTRUCTION DOCUMENTS



4 ARCHITECTURE 4 ARCHITECTURE



LIST OF DRAWINGS

VESTIBULE AND LIBRARY ELEVATIONS & DETAILS

				A501	SCHEDULES AND MISC. DETAILS	4	ARCHITECTURE	E001	ELECTRICAL SYMBOLS, ABBREVIATIONS & GENERAL NOTES	8	ELECTRICAL
T1	TITLE SHEET	.5		A601	ENLARGED RCPS	4	ARCHITECTURE	E002	ELECTRICAL NOTES & PA SYSTEM RISER	8	ELECTRICAL
GENERAL				A701	STAIR A DRAWINGS	4	ARCHITECTURE	E101	ELECTRICAL FIRST FLOOR DEMOLITION PLAN	8	ELECTRICAL
G001	GENERAL INFORMATION	1	GENERAL	A702	STAIR B & C DRAWINGS	4	ARCHITECTURE	E102	ELECTRICAL SECOND FLOOR DEMOLITION PLAN	8	ELECTRICAL
CODE COMP	PLIANCE			A801	CAFETERIA WALL SECTIONS	4	ARCHITECTURE	E103	ELECTRICAL THIRD FLOOR DEMOLITION PLAN	8	ELECTRICAL
CC001	CODE COMPLIANCE INFORMATION	2	CODE COMPLIANCE	A802	LIBRARY WALL SECTIONS	4	ARCHITECTURE	E104	ELECTRICAL ROOF DEMOLITION PLAN	8	ELECTRICAL
CC002	CODE COMPLIANCE PLANS	2	CODE COMPLIANCE	A901	TYPICAL PARTITION TYPES	4	ARCHITECTURE	E201	ELECTRICAL CAFETERIA & LIBRARY LIGHTING PART PLAN	8	ELECTRICAL
STRUCTURA	AL .			A902	DOOR SCHEDULES AND DETAILS	4	ARCHITECTURE	E300	ELECTRICAL BASEMENT POWER PLAN	8	ELECTRICAL
S001	GENERAL NOTES AND MATERIAL SPECIFICATIONS	3	STRUCTURAL	A903	INTERIOR FRAME TYPES AND AL FRAME DETAILS	4	ARCHITECTURE	E301	ELECTRICAL FIRST FLOOR NEW WORK PLAN	8	ELECTRICAL
S101	LIBRARY FLOOR AND STUDY AREA FLOOR FRAMING PLAN	3	STRUCTURAL	MECHANICA	AL .			E302	ELECTRICAL SECOND FLOOR NEW WORK PLAN	8	ELECTRICAL
S102	OVERALL ROOF AND RTU LOCATION PLAN	3	STRUCTURAL	M001	SYMBOLS, ABBREVIATIONS, & GENERAL NOTES	7	MECHANICAL	E303	ELECTRICAL THIRD FLOOR NEW WORK PLAN	8	ELECTRICAL
S201	FRAMING DETAILS	3	STRUCTURAL	M101	DEMOLITION 1ST FLOOR PLAN	7	MECHANICAL	E304	ELECTRICAL ROOF NEW WORK PLAN	8	ELECTRICAL
ARCHITECT	URE			M102	DEMOLITION 2ND FLOOR PLAN	7	MECHANICAL	E310	ELECTRICAL CAFETERIA & LIBRARY POWER PART PLAN	8	ELECTRICAL
A101	OVERALL 1ST FLOOR DEMOLITION PLAN	4	ARCHITECTURE	M103	DEMOLITION 3RD FLOOR PLAN	7	MECHANICAL	E400	FIRE ALARM RISER AND NOTES	8	ELECTRICAL
A102	OVERALL 2ND FLOOR DEMOLITION PLAN	4	ARCHITECTURE	M104	DEMOLITION ROOF PLAN	7	MECHANICAL	E401	FIRE ALARM FIRST FLOOR NEW WORK PLAN	8	ELECTRICAL
A103	OVERALL 3RD FLOOR DEMOLITION PLAN	4	ARCHITECTURE	M201	NEW WORK 1ST FLOOR PART PLANS	7	MECHANICAL	E402	FIRE ALARM SECOND FLOOR NEW WORK PLAN	8	ELECTRICAL
A104	ROOF DEMOLITION PLAN	4	ARCHITECTURE	M202	NEW WORK 2ND FLOOR PART PLANS	7	MECHANICAL	E403	FIRE ALARM THIRD FLOOR NEW WORK PLAN	8	ELECTRICAL
A105	ENLARGED DEMOLITION PLANS & SECTIONS	4	ARCHITECTURE	M203	NEW WORK 3RD FLOOR PART PLANS	7	MECHANICAL	E404	FIRE ALARM ROOF NEW WORK PLAN	8	ELECTRICAL
A201	OVERALL 1ST FLOOR PLAN	4	ARCHITECTURE	M204	NEW WORK ROOF PART PLANS	7	MECHANICAL	E405	FIRE ALARM CAFETERIA AND LIBRARY PART PLANS	8	ELECTRICAL
A202	OVERALL 2ND FLOOR PLAN	4	ARCHITECTURE	M205	CAFETERIA & LIBRARY NEW WORK PART PLANS	7	MECHANICAL	E501	ELECTRICAL ONE-LINE DIAGRAM	8	ELECTRICAL
A203	OVERALL 3RD FLOOR PLAN	4	ARCHITECTURE	M206	CAFETERIA & LIBRARY ROOF NEW WORK PART PLANS	7	MECHANICAL	E601	ELECTRICAL SCHEDULES	8	ELECTRICAL
A251	ROOF PLAN	4	ARCHITECTURE	M501	VRF RISER DIAGRAMS	7	MECHANICAL	E602	ELECTRICAL SCHEDULES	8	ELECTRICAL
A252	ROOF DETAILS	4	ARCHITECTURE	M601	SCHEDULES & EQUIPMENT NOTES	7	MECHANICAL	E701	ELECTRICAL DETAILS	8	ELECTRICAL
A301	MAIN ENTRANCE ELEVATION	4	ARCHITECTURE	M602	SCHEDULES	7	MECHANICAL				
A302	EAST + WEST ENTRANCE ELEVATIONS	4	ARCHITECTURE	M603	VENTILATION SCHEDULES	7	MECHANICAL				
A401	ENLARGED FLOOR PLANS	4	ARCHITECTURE	M701	DETAILS	7	MECHANICAL				
A402	CAFETERIA ELEVATIONS & DETAILS	4	ARCHITECTURE	M702	DETAILS	7	MECHANICAL				

ARCHITECT KG+D Architects

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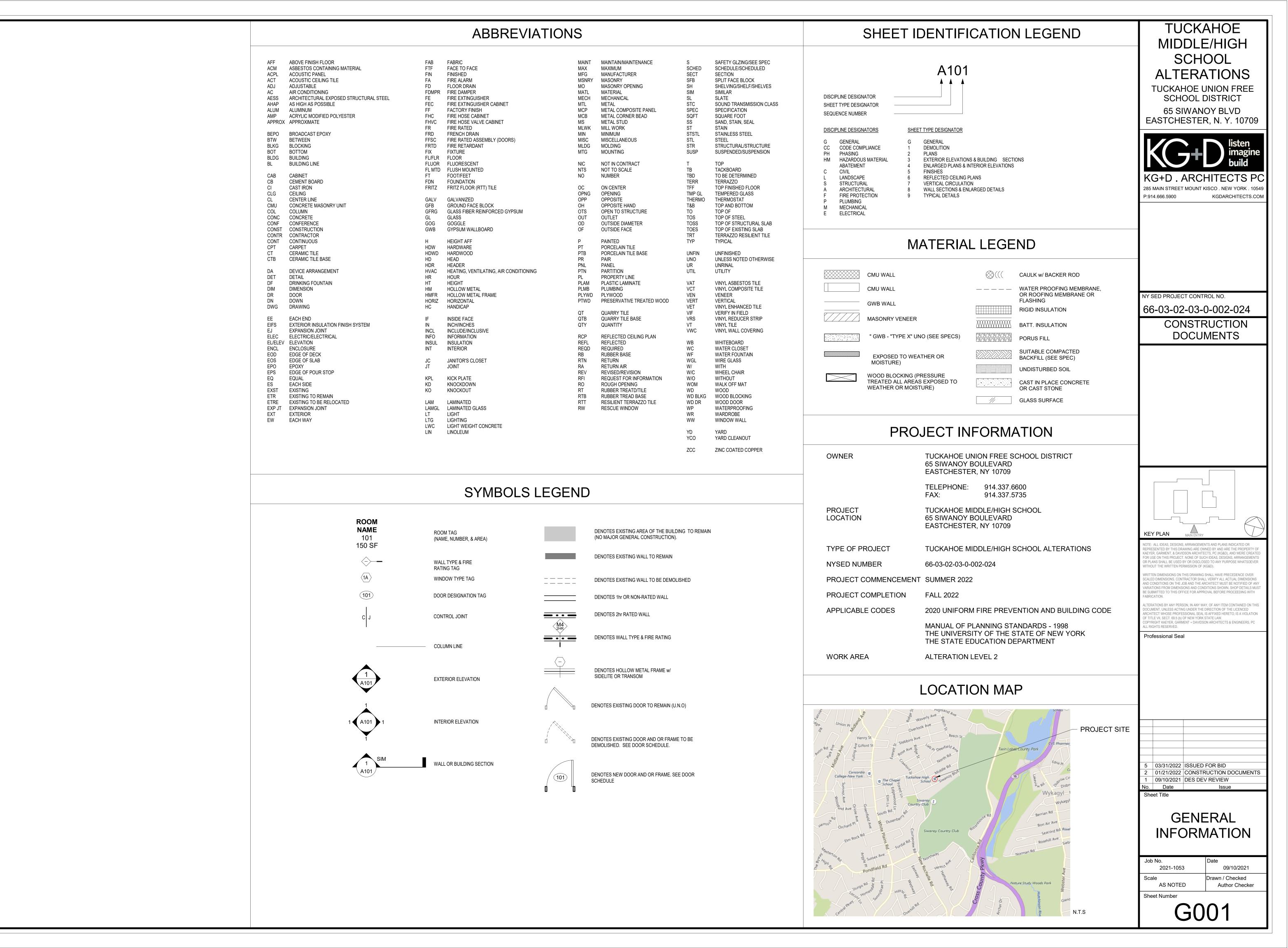
STRUCTURAL ENGINEER The DiSalvo Engineering Group

Lee Farm Corporate Park - Suite 200 83 Wooster Heights Road Danbury, CT 06810 phone: 203.490.4140

SPECIFICATION CONSULTANT Sue McClymonds Architect

200 Robb Road Amsterdam, NY 12010 phone: 518.843.4054

Sheet Numbe



CHAPTER 3-6 OCCUPANCY, AREA AND **CONSTRUCTION TYPES**

BUILDING INFORMATION

USE & OCCUPANCY CLASSIFICATION: EDUCATIONAL (E)

RENOVATION

0 HOURS

WORK CHARACTERIZATION:

CONSTRUCTION CLASSIFICATION: TYPE IIB

(NON-COMBUSTIBLE, UNPROTECTED)

FIRE RATING FOR WALLS

BEARING: 0 HOURS **NON-BEARING:** 0 HOURS FIRE RATING FOR FLOORS (TYPE IIB) 0 HOURS

FIRE RATING FOR ROOFS (TYPE IIB)

BUILDING HEIGHTS & AREAS

PERMITTED ACTUAL

HEIGHT 55'-0" 41'-1" STORIES FLOOR AREA 116,880SF (BCN) 128,840SF

PRE-EXISTING NON-CONFORMING

*AREA MODIFICATIONS PER NYS BC SECTION 506

EQUATION 5-1 Aa = $\{At + [At \times If] + [At \times Is]\}$ Aa = ALLOWABLE AREA PER STORY At = 14,500 SF

Is = 0 (NO SPRINKLERS) EQUATION 5-1 If = [F / P - 0.25] (W/30)

If = 0.25 (SEE EQUATION 5-2)

If = AREA INCREASE DUE TO FRONTAGE F/P = 50%W = 30 FT

CHAPTER 7 FIRE & SMOKE PROTECTION

ASSEMBLY FIRE-RESISTANCE RATING LOCATION

FIRE BARRIER 1 HOURS CORRIDORS **CLASSROOMS**

SEE DRAWINGS FOR LOCATION OF FIRE-RESISTANCE-RATED CONSTRUCTION

CHAPTER 10 MEANS OF EGRESS

EGRESS INFORMATION: DWG SHOWN

CC DRAWINGS ROOM USE DESIGNATIONS ROOM SQUARE FOOTAGE **CC DRAWINGS** ROOM OCCUPANCY LOADS **CC DRAWINGS** EXIT TRAVEL DISTANCES **CC DRAWINGS**

GROUND FL - 150 FT MAX TO EXTERIOR DOOR BASEMENT / 2ND FL - 120 FT MAX TO STAIR ENCLOSURE 50 FT MAX TO EXIT FROM ALL ROOMS (1500 SF & UNDER) NO DEAD-END CORRIDORS (<1.5 x WIDTH, MAX 20'-0")

CHAPTER 11 ACCESSIBILITY

DWG SHOWN

INTERIOR ACESSIBLE ROUTE CC DRAWINGS ACCESSIBLE ENTRANCES CC DRAWINGS SIGNAGE **SPECIFICATIONS**

EXISTING BUILDING SQUARE FOOTAGES

BUILDING	AREA DESCRIBED	BLDG TYPE	LEVEL NAMES	EXST. SF	DEMO	GROSS SF
1932 BUILDING	ORIGINAL MIDDLE SCHOOL	2B	1st FLOOR	34,196 SF 0 SF	34,196 SF	
	CLASSROOMS, GYMNASIUM, & CAFETERIA		2nd FLOOR	34,196 SF	0 SF	34,196 SF
			3rd FLOOR	11,837 SF	0 SF	11,837 SF
			SUBTOTAL	80,229 SF	0 SF	80,229 SF
1965 ADDITIONS	GYMNASIUM, CHORUS ROOMS &	2B	1st FLOOR	12,184 SF	0 SF	12,184 SF
	EXERCISE STUDIO		2nd FLOOR	8,584 SF 4,094 SF 24,862 SF	0 SF	8,584 SF
			3rd FLOOR		0 SF	4,094 SF
			SUBTOTAL		0 SF	24,862 SF
1982 ADDITION	CLASSROOM ADDITION	2B	1st FLOOR	6,075 SF	0 SF	6,075 SF
			2nd FLOOR	6,075 SF	0 SF	6,075 SF
			3rd FLOOR	6,075 SF	0 SF	6,075 SF
			SUBTOTAL	18,225 SF	0 SF	18,225 SF
			SUBTOTAL	123,316 SF	0 SF	123,316 SF

UNIFORM SAFETY STANDARDS FOR SCHOOL CONSTRUCTION AND MAINTENANCE PROJECTS

THE OCCUPIED PORTION OF THE EXISTING SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY.

ALL SCHOOL AREAS TO BE DISTURBED DURING RENOVATION OR DEMOLITION HAVE BEEN OR WILL BE TESTED FOR LEAD AND ASBESTOS.

GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:

- ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER. FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
- GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
- DURING EXTERIOR RENOVATION WORK, OVERHEAD PROTECTION SHALL BE PROVIDED FOR ANY SIDEWALKS OR AREAS IMMEDIATELY BENEATH THE WORK SITE OR SUCH AREAS SHALL BE FENCED OFF AND PROVIDED WITH WARNING SIGNS TO PREVENT ENTRY.
- WORKERS SHALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES.

SEPARATION OF CONSTRUCTION AREAS FROM OCCUPIED SPACES

CONSTRUCTION AREAS WHICH ARE UNDER THE CONTROL OF A CONTRACTOR AND THEREFORE NOT OCCUPIED BY DISTRICT STAFF OR STUDENTS SHALL BE SEPARATED FROM OCCUPIED AREAS. PROVISIONS SHALL BE MADE TO PREVENT THE PASSAGE OF DUST AND CONTAMINANTS INTO OCCUPIED PARTS OF THE BUILDING. PERIODIC INSPECTION AND REPAIRS OF THE CONTAINMENT BARRIERS MUST BE MADE TO PREVENT EXPOSURE TO DUST OR CONTAMINANTS. GYPSUM BOARD MUST BE USED IN EXIT WAYS OR OTHER AREAS THAT REQUIRE FIRE RATED SEPARATION. HEAVY DUTY PLASTIC SHEETING MAY BE USED ONLY FOR A VAPOR, FINE DUST OR AIR INFILTRATION BARRIER, AND SHALL NOT BE USED TO SEPARATE OCCUPIED SPACES FROM CONSTRUCTION AREAS.

- A SPECIFIC STAIRWELL AND/OR ELEVATOR SHOULD BE ASSIGNED FOR CONSTRUCTION WORKER USE DURING WORK HOURS. IN GENERAL, WORKERS MAY NOT USE CORRIDORS, STAIRS OR ELEVATORS DESIGNATED FOR STUDENTS OR SCHOOL STAFF.
- LARGE AMOUNTS OF DEBRIS MUST BE REMOVED BY USING ENCLOSED CHUTES OR A SIMILAR SEALED SYSTEM. THERE SHALL BE NO MOVEMENT OF DEBRIS THROUGH HALLS OF OCCUPIED SPACES OF THE BUILDING. NO MATERIAL SHALL BE DROPPED OR THROWN OUTSIDE THE WALLS OF THE BUILDING.
- ALL OCCUPIED PARTS OF THE BUILDING AFFECTED BY RENOVATION ACTIVITY SHALL BE CLEANED AT THE CLOSE OF EACH WORKDAY. SCHOOL BUILDINGS OCCUPIED DURING A CONSTRUCTION PROJECT SHALL MAINTAIN REQUIRED HEALTH, SAFETY AND EDUCATIONAL CAPABILITIES AT ALL TIMES THAT CLASSES ARE IN SESSION.

A PLAN DETAILING HOW EXITING REQUIRED BY THE APPLICABLE BUILDING CODE WILL BE MAINTAINED.

A PLAN DETAILING HOW ADEQUATE VENTILATION WILL BE MAINTAINED DURING CONSTRUCTION.

CONSTRUCTION AND MAINTENANCE OPERATIONS SHALL NOT PRODUCE NOISE IN EXCESS OF 60 DBA IN OCCUPIED SPACES OR SHALL BE SCHEDULED FOR TIMES WHEN THE BUILDING OR AFFECTED BUILDING SPACES ARE NOT OCCUPIED OR ACOUSTICAL ABATEMENT MEASURES

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CONTROL OF CHEMICAL FUMES, GASES, AND OTHER CONTAMINATES PRODUCED BY WELDING, GASOLINE OR DIESEL ENGINES, ROOFING, PAVING, PAINTING, ETC. TO ENSURE THEY DO NOT ENTER OCCUPIED PORTIONS OF THE BUILDING OR AIR INTAKES.

THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ACTIVITIES AND MATERIALS WHICH RESULT IN "OFF-GASSING" OF VOLATILE ORGANIC COMPOUNDS SUCH AS GLUES, PAINTS, FURNITURE, CARPETING, WALL COVERING, DRAPERY, ETC. ARE SCHEDULED, CURED OR VENTILATED IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS BEFORE A SPACE CAN BE OCCUPIED.

LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE BUILDING IS OCCUPIED". NOTE, IT IS OUR INTERPRETATION THAT THE TERM "BUILDING", AS REFERENCED IN THIS SECTION, MEANS A WING OR MAJOR SECTION OF A BUILDING THAT CAN BE COMPLETELY ISOLATED FROM THE REST OF THE BUILDING WITH SEALED NON COMBUSTIBLE CONSTRUCTION. THE ISOLATED PORTION OF THE BUILDING MUST CONTAIN EXITS THAT DO NOT PASS THROUGH THE OCCUPIED PORTION AND VENTILATION SYSTEMS MUST BE PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER. EXTERIOR WORK SUCH AS ROOFING, FLASHING, SIDING, OR SOFFIT WORK MAY BE PERFORMED ON OCCUPIED BUILDINGS PROVIDED PROPER VARIANCES ARE IN PLACE AS REQUIRED, AND COMPLETE ISOLATION OF VENTILATION SYSTEMS AND AT WINDOWS IS PROVIDED. CARE MUST BE TAKEN TO SCHEDULE WORK SO THAT CLASSES ARE NOT DISRUPTED BY NOISE OR VISUAL

SURFACES THAT WILL BE DISTURBED BY RECONSTRUCTION MUST HAVE A DETERMINATION MADE AS TO THE PRESENCE OF LEAD. PROJECTS WHICH DISTURB SURFACES THAT CONTAIN LEAD SHALL HAVE IN THE SPECIFICATIONS A PLAN PREPARED BY A CERTIFIED LEAD RISK ASSESSOR OR SUPERVISOR WHICH DETAILS PROVISIONS FOR OCCUPANT PROTECTION, WORKSITE PREPARATION, WORK METHODS, CLEANING AND CLEARANCE TESTING WHICH ARE IN GENERAL ACCORDANCE WITH THE HUD GUIDELINES.

PROJECT SCOPE & CLASSIFICATION OF WORK

PROJECT SCOPE:

DISTRACTION.

THIS PROJECT INCLUDES ALTERATIONS TO THE CAFETERIA, EAST ENTRY VESTIBULE, AND LIBRARY. RENOVATIONS ARE REQUIRED IN THE GYMNASIUM AND ALONG THE SOUTH EXTERIOR/ENTRANCE ELEVATIONS.

CLASSIFICATION OF WORK:

ALTERATION LEVEL 2

APPLICABLE CODES:

2020 UNIFORM FIRE PREVENTION AND BUILDING CODE

MANUAL OF PLANNING STANDARDS - 1998 THE UNIVERSITY OF THE STATE OF NEW YORK THE STATE EDUCATION DEPARTMENT

TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD EASTCHESTER, N. Y. 10709

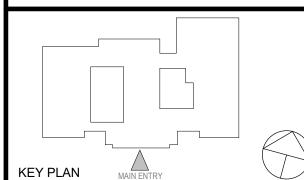


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NY SED PROJECT CONTROL NO.

66-03-02-03-0-002-024

CONSTRUCTION DOCUMENTS



TED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERT PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVE

ONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF A

CT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION TILE VII. SECT. 69.5 (b) OF NEW YORK STATE LAW.

Professional Seal

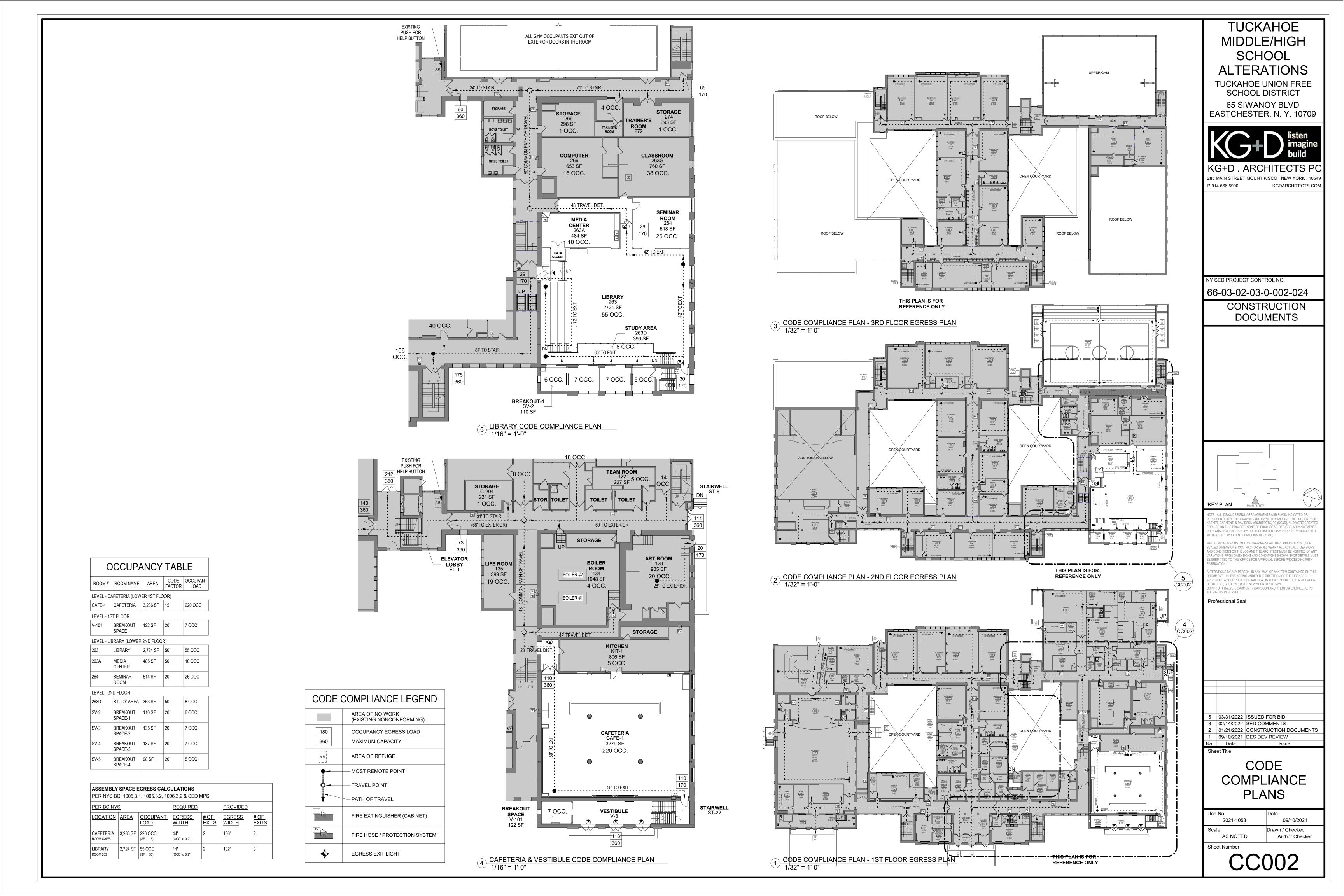
03/31/2022 ISSUED FOR BID 01/21/2022 CONSTRUCTION DOCUMENTS 09/10/2021 DES DEV REVIEW

CODE COMPLIANCE INFORMATION

09/10/2021 2021-1053 rawn / Checked AS NOTED **Author Checker**

Sheet Number

CC001



General Notes:

- 1 The purpose of these drawings is to show the structural work associated with alteration at Tuckahoe Middle/High
- school at 65 Siwanov Blvd, Eastchester, NY 10709 The work shown on these drawings has been designed in accordance with the structural requirements of the 2020 edition of the Building Code of New York State which is part of the New York State Uniform Fire Prevention and Building Code and is based upon the 2018 International Building Code.
- The structural components have been designed for the following loads:

Uniform live load:	
Corridors	100 psf
First floor	
Dining rooms	100 psf
Libraries	
Corridors above first floor	80 psf
Reading rooms	60 psf
Stack rooms	150 psf
Stairs and exits	100 psf

B. Roof loads:

Roof loads:	
Snow:	
Ground snow load, p _g	30 psf
Flat roof snow load, p _f	30 psf*
Exposure factor, C _e	1.0
Importance factor, Is	1.1
Thermal factor, Ct	1.0
Drift surcharge load, p _d	53 psf
Width of snow drift, W	6.72 feet
Rain loads: in accordance with Section 1611	
Roof live load:	20 psf mir
Rainfall intensity is required by the 2018 IBC code. See	e Section 1603.1.9.
Rainfall intensity (15-min. duration/100 year avg. interv	,
*Note: the flat roof snow load shall be no less than 30	psf.

C. Wind design data:

Positive all zones

Overhang Zone 3

Overhang Zones 1 & 2

Wind loads have been determined based on Section 1609.1.1 in accordance with ASCE 7-16, Chapters 26, 27, 29 and 30, Directional Procedure

Risk category	III
Basic wind speed (3-second gust):	
Ultimate design wind speed, Vult	125 mph
Nominal design wind speed, Vasd	97 mph
Exposure	В
Internal pressure coefficient	0.18
"a" dimension for use with components and cladding	4 ft

10.0

-32.9

Analysis procedure: Equivalent Lateral Force

Intermediate rail concentrated load

Design wind pressure (Nominal design wind pressures) for components and cladding on building walls (use Zone 4 generally; use Zone 5 within "a" of building wall corners):

Surface pressure (psf)						
Area	10 sq.ft	20 sq. ft.	50 sq. ft.	100 sq. ft <u>.</u>		
Negative Zone 4	-16.7	-16.0	-15.1	-14.5		
Negative Zone 5	-20.6	-19.2	-17.4	-16.0		
Positive Zones 4 & 5	15.4	14.8	13.8	13.2		
Design wind pressure (Nominal design wind pressures) for components and cladding on building roofs (for						
locations of zones 1, 2 and 3, refer to building code):						

Design wind pressure	(Nominal design win	d pressures) for com	ponents and claddin	g on building roofs
locations of zones 1, 2	and 3, refer to build	ing code):		
	Sı	urface pressure (psf)		
Area	10 sq.ft	20 sq. ft.	50 sq. ft.	100 sq.ft.
Negative Zone 1	-26.9	-25.1	-22.8	-21.0
Negative Zone 2	-35.4	-33.2	-30.2	-27.9
Negative Zone 3	-48.3	-43.7	-37.7	-33.2

Wind design for existing buildings: Not required since the proposed additions does not increase the demand-capacity ratio of any wind load carrying structural element by more than 10 percent cumulative since the original construction.

10.0

-29.8

-40.4

10.0

-25.8

-33.4

10.0

-22.8

-28.1

50 lbs

D.	Earthquake design data:						
	Risk category	III					
	Seismic importance factor, l _e :	1.25					
	Mapped short period spectral response accelerations, S _s :	0.293g					
	Mapped 1 second period spectral response accelerations, S ₁ :	0.061g					
	Site class:	В					
	Design short period spectral response accelerations, S _{DS} :	0.176g					
	Design 1 second period spectral response accelerations, S _{D1} :	0.033g					
	Seismic design category:	В					
	Seismic force resisting system: Structural steel systems not specifically detailed for seismic resistance						
	Design base shear:	4 KIPS					
	Seismic response coefficient, C _s :	0.045					
	Response modification factor, R:	3					
	Deflection amplification factor, Cd.	3					

Earthquake design for existing buildings: Not required since the proposed additions does not increase the demand-capacity ratio of any seismic load

_	Not required since the proposed additions does not increase the decarrying structural element by more than 10 percent cumulative sin	. ,
E.	Other loads:	
	Concentrated loads:	
	All floors except as noted (on 2-1/2 feet square)	1000 lbs
	Stair treads and catwalks (on 4 inches square)	300 lb
	Impact loads	
	Loads increased as follows:	
	Elevator machinery	100%
	Hangers for floors or balconies	33%
	Vehicle and wheel loads	30%
F.	Special loads:	
	Retaining walls	
	Lateral equivalent fluid pressure	35 pcf
	Seismic load (h = height of wall)	5.5 h^2
	Vertical live load surcharge	100 psf
G.	Guardrails (load applied in any direction):	·
	Top rail concentrated	200 lbs
	or	
	Top rail uniform load	50 plf

H. Existing buildings: For existing structural elements carrying gravity loads, the proposed additions does not increase the stress in any structural element by more than 5 percent nor does it decrease the strength of any structural element to

less than required by the building code for new structures. This structure has been designed to be self-supporting and stable after the construction of the building has been completed. The stability of the structure prior to completion is solely the responsibility of the contractor. This responsibility extends to all related aspects of the construction activity including, but not limited to, erection methods, erection sequence, temporary bracing, forms, shoring, use of equipment, and similar construction procedures. Review of the construction by the engineer is for conformance with design aspects only, not to review the contractor's construction procedures. Lack of comment on the part of the engineer with regard to construction procedures is not to be interpreted as approval of those procedures

This structure utilizes, moment frames to provide lateral stability. Therefore, temporary bracing, guys, etc., must be

maintained until all bracing and moment frames have been erected. Shoring note: The contractor is responsible for designing, providing and installing all temporary shoring that is required to support instabilities of existing structure during construction and due to the removal of existing supporting walls and existing framing members for installation of new framing and foundations. Shoring shall be fully installed and stable prior to removal of existing structural elements. However, all conditions may not be shown due to hidden conditions at existing structures.

Jobsite safety and construction procedures are solely the responsibility of the contractor. Review of the construction by the engineer is for conformance with design aspects only, not to review the contractor's provisions for job site safety. Lack of comment by the engineer is not to be interpreted as approval of those aspects of work. PDF digital files of all erection and detail shop drawings for steel reinforcing bars (concrete and concrete -masonry construction), structural steel, cold-formed metal framing (wall framing), and steel deck, indicating the fabricator, manufacturer, finish, layout, and all accessories, must be submitted to and be checked by the contractor and subcontractor and bear the checker's initials before submission to the architect for review prior to fabrication. Fabrication and/or delivery to the site of components prior to receiving approved shop drawings shall be at the

fabricator's own risk. Deferred submittals: Deferred submittals are those portions of the design that are not submitted at the time of application and are to be submitted to the building official within a specified period. The following deferred submittals shall be submitted to the engineer for approval.

A. Cold-formed metal framing After approval by the engineer, the deferred submittal documents shall be submitted to the building official for approval. Deferred submittal items shall not be installed until the deferred submittal documents have been

approved by the building official. 10 Testing and inspection of concrete, steel reinforcing bars (concrete and concrete masonry construction), concrete masonry, structural steel, steel deck, cold-formed metal framing, and other work are described in the project "Statement of Special Inspections". The contractor shall review the "Statement of Special Inspections" and coordinate the scheduling of inspections with the special inspector. Uninspected work that required inspections

may be rejected solely on that basis. 11 If faulty construction procedures, or material, result in defective work that requires additional engineering time to devise corrective measures, professional fees may be charged to the contractor at the standard hourly rate of additional services. Such fees may be withheld from the general contractor's payment.

12 Loads, openings and structure in any way related to requirements of other (non-structural) disciplines are shown for bidding purposes only. However, these plans do not show the full scope of openings, in roofs, floors and walls. For size and location of all openings, see architectural and mechanical drawings. Do not scale openings. The contractor shall obtain from the heating and ventilating, electrical, plumbing and other trades the final approved size and location of all openings, equipment and work to be provided for their trade for roofs, floors and walls, whether shown or not shown on structural drawings. Excess cost related to variation in requirements or equipment are not to be borne by the owner.

13 For any mechanical equipment weights used in design of supporting elements that are indicated on the drawings. Contractor shall notify the architect prior to installation of equipment if actual weight exceeds weight shown on

14 The contractor shall verify all dimensions, elevations and angles with architectural drawings and existing conditions before proceeding with any work. 15 The contractor shall <u>field verify existing conditions</u> before proceeding with any work. The contractor shall field

verify all dimensions noted "±" that are indicated on the drawings 16 The contractor and subcontractors shall obtain the latest copies of approved plans and surveys and they shall

familiarize themselves thoroughly with these plans before commencing any work. 17 These drawings are supplemented by a detailed technical specification. The notes shown under certain categories of work are intended to summarize basic requirements.

18 Work shown as "Typical Details" apply throughout the project as required. Work shown as "Sections" shall be considered to apply for the same and similar conditions in the building. 19 Some details of the work are shown on the architectural drawings. A careful review and study of these details are

Codes and Standards References

20 Do not scale drawings.

1 Concrete: Concrete work shall conform to the requirements of: ACI 301-10, "Specifications for Structural Concrete in Buildings" and ACI 318-14, "Building Code Requirements for Structural Concrete".

necessary before the full scope of the work can be comprehended.

Concrete masonry Concrete masonry work shall conform to the requirements of TMS 402-16, "Building Code Requirements for Masonry Structures" and TMS 602-16, "Specifications for Masonry Structures".

Design, fabrication and erection of structural steel shall conform to the "Specification for Structural Steel for Buildings" as adopted on July 7, 2016, by the American Institute of Steel Construction (AISC) and the 15th Edition of the AISC Steel Construction Manual.

Foundation notes:

The site preparation and earthwork within the perimeter of the proposed new structure shall include, as a minimum, the complete removal of all topsoil, organic and unsuitable fill materials. Proof compact the top of the remaining excavated surface. The removed soil shall be replaced with compacted structural fill where required for

the support of foundations and slabs on grade The foundations have been designed to rest on inorganic, undisturbed soil or compacted granular fill having a presumptive bearing value of 3000 psf. Such bearing strata are anticipated at the bottom of footing elevations noted on the foundation plan. All bearing strata shall be reviewed by the engineer prior to placing concrete in order to verify the presumptive bearing value.

The slab-on-grade sub-base shall be a crusher run stone free from soft disintegrated pieces, mud, dirt, or other injurious material. The material shall have no stone greater than 2 inches in any one dimension and with less than 10 percent by weight passing a No.100 sieve

The bottom of exterior footings not on solid rock shall be at least 3' - 6" below finished grade. All soil surrounding and under footings shall be protected from freezing and frost action during the course of construction.

Step footings where elevations change at a maximum slope of one vertical on two horizontal and place lower footings first. Foundation walls shall be backfilled by placing fill on both sides simultaneously and to the same level.

Keep foundation excavations free of water at all times. Use crushed stone backfill or controlled compacted fill or lean concrete (f'c=1500 psi) for over-excavation of 10 Existing utilities: locate existing underground utilities in areas of excavation work. Provide adequate means of

support and protection during earthwork operations. 11 Where footings are in close proximity to sub-surface piping bottom of footings shall be at least 8" below elevation

of piping unless otherwise shown on the drawings. 12 Submittals to the engineer are required for structural fill and slab sub-base.

Concrete Notes:

All concrete work shall conform to all the requirements of ACI 301, "Specifications for Structural Concrete in Buildings" and ACI 318 "Building Code Requirements for Structural Concrete", as specified in the code reference

Concrete shall be the specified weig	ht and develop a minimu	m compressive strength	in 28 days as follows: Maximum
<u>Location</u>	<u>Weight</u>	Minimum <u>Strength</u>	W/C Ratio_(or slump where indicated)
Slabs-on-grade -interior Slabs-on-metal-deck	Normal Normal	4,000 psi 3,500 psi	0.45 Slump: 4" +/- 1"

All detailing fabrication, and erection of reinforcing bars, unless otherwise noted, must follow the latest ACI code and the latest ACI "Manual of Standard Practice for Detailing Reinforced Concrete Structures". Concrete design mix will be submitted to the engineer for review, together with laboratory reports attesting that the mixes can attain the minimum strength required in accordance with ACI 301 indicated above.

Portland cement shall be Type I or Type II and conform to ASTM C 150. Other cementitious material such as flyash or ground granulated blast- furnace slag may be blended with cement for use in the concrete mix. Flyash shall conform to ASTM C 618 and may replace cement if the following ranges for the 2 classes of flyash; Class C, 20 to 35%; Class F, 15 to 25%. Ground granulated blast- furnace slag shall conform to ASTM C 989 and may not exceed 50% of total weight of cementitious materials. For normal weight concrete: coarse aggregate shall be 3/4" and conform to ASTM C 33. Fine aggregate shall be

manufactured or natural sand from the same source for the entire project and shall conform to ASTM C 33. No admixtures are permitted without the engineer's written permission other than entrained air. Concrete exposed to the weather, such as that used in foundation walls, shall contain 5% +/- 1 1/2% entrained air. Concrete exposed to the weather and to de-icing compounds shall contain 6% +/- 1 1/2% entrained air. Do not use air entrainment admixture for interior normal weight concrete slabs.

Limit water-soluble, chloride-ion content in hardened concrete to the following percent by weight of cement: 1.00 for reinforced concrete that will be dry and protected from moisture, 0.30 for reinforced concrete that will exposed to moisture but not exposed to chlorides, 0.15 for reinforced concrete exposed to moisture and chlorides from deicing chemicals and salt/seawater, and 0.06 for prestressed (post-tensioned) concrete.

10 Reinforcing steel shall conform to ASTM A 615, Grade 60. Welded wire fabric shall conform to ASTM A 1064 with a minimum yield strength of 65 ksi. Lap one mesh size at sides and ends, and wire together 12 Vapor retarder shall be Stego Wrap (15 mil) vapor retarder by Stego Industries LLC and shall have a water vapor

permeance after conditioning (ASTM E 1745, Paragraphs 7.1.2 – 7.1.5) that is less than 0.01 perms and meets the requirements of Class A. Place as per ASTM E 1643 and manufacturer's written instructions. 13 The following concrete cover shall be provided for reinforcement:

Location	Cover (inches
Concrete cast against and	
Permanently exposed to earth	3
Concrete exposed to earth or weather:	
#6 through #18 bars	2
#5 bar and smaller	1 1/2
Concrete not exposed to weather or in contact with ground:	
Slabs, walls, joists:	
#14 and #18 bars	1 1/2
#11 bar and smaller	3/4
Beams, columns	
Primary reinforcement, ties, stirrups, spirals	1 1/2

14 The conveyance, placement and protection of the concrete shall conform to the requirements of ACI 318, indicated above, and ACI 304R, "Guide for Measuring, Mixing, Transporting and Placing Concrete". Mechanical vibrators are to be used to consolidate the freshly cast concrete around the reinforcing and against form surfaces and to prevent the formation of air or stone pockets, honeycombing, pitting or planes of weakness. However, care must be used to avoid over vibration that can lead to aggregate segregation.

15 No welding of reinforcing will be permitted.

aggregates. as specified in Specification Section 03300.

16 All lap splices shall be Class B, in accordance with ACI 318 indicated above. 17 The contractor shall be responsible for limiting pours to minimize shrinkage cracking. In general, walls shall not be poured in continuous lengths exceeding 30 feet without providing construction joints or control joints. The location

and configuration of joints exposed to view shall be coordinated with the architect 18 The installation of slabs shall conform to the requirements of ACI 302.1R, "Guide to Concrete Floor and Slab Construction". Interior finish slab surfaces are to have a steel trowel finish. Exterior slab surfaces are to have a broom finish unless specified on the architectural drawings. 19 Expansion and isolation-ioints:

Filler strips: ASTM D 1751, asphalt-saturated cellulosic fiber or ASTM D 1752, cork or self expanding cork Sealant at top of joint: Sika's Sikaflex 2c SL poly urethane elastomeric sealant. Provide cap to separate sealant 20 Waterstops: Flexible polyvinyl chloride (PVC) waterstop conforming to Corp of Engineers Specification CRD-C

572, with flat dumbbell and center bulb. 21 The curing and protection of concrete shall conform to the requirements of ACI 318 and ACI 308R, "Guide to Curing Concrete". Concrete slabs shall be protected from loss of surface moisture for not less than 7 days using a curing compound conforming to ASTM C 309 or constantly wetted burlap. Curing compounds shall be compatible with any intended flooring overlay. Do not install finish flooring until slab has adequately dried per the flooring

22 Cold weather concrete placement: If cold weather concreting conditions exist as defined by a period of more than three days when the average outdoor temperature, (high + low)/2, is less than 40 deg. F. the procedures outlined in ACI 306.1, "Standard Specification for Cold Weather Concreting" and ACI 306R, "Guide to Cold Weather Concreting" shall be utilized.

Hot weather concrete placement: Maintain concrete temperature below 90 deg. F. at time of placement and comply with ACI 301 and ACI 305R, "Guide to Hot Weather Concreting" Accurately position, support, and secure reinforcement and anchors against displacement. Locate and support

reinforcement with bar supports to maintain minimum concrete cover. Do not tack weld crossing reinforcing bars. Provide bar supports as follows: A. Bolsters, chairs, spacers, and other devices for spacing, supporting, and fastening reinforcing bars and welded wire reinforcement in place. Do not "wet stick" reinforcement or anchors. Manufacture bar supports from steel wire, plastic, or precast concrete according to CRSI's "Manual of Standard Practice," of greater

compressive strength than concrete. 25 Sizes and locations of all required embedded items, such as anchor bolts, piping sleeves, etc., for all trades shall be coordinated by the general contractor with other trades. 26 Submittals to the engineer are required for concrete mix designs, cement, reinforcing bars, admixtures, and

Concrete Masonry Notes:

All concrete masonry work shall conform to the requirements of the "Building Code Requirements for Masonry Structures (ACI 530/ ASCE 5/ TMS 402)" and the "Specifications for Masonry Structures (ACI 530.1/ASCE 6/ TMS

602, as specified in the code reference section of these general notes. The compressive masonry strength, f'm, shall be 2,000 psi minimum. System components have been selected based on the unit strength method

Concrete block shall be lightweight hollow load bearing masonry units conforming to ASTM C 90, with a minimum ultimate compressive strength of 2,000 psi on the net area of the units. Units shall be protected from moisture

Portland cement used in the mortar and grout shall conform to ASTM C 150. Masonry cement or mortar cement shall not be used. Mortar shall be Type S conforming to the volumetric proportions set forth in ASTM C 270. Use 1 part Portland cement; 0.25 to 0.5 parts hydrated lime or lime putty; and aggregate proportioned to 2.25 to 3 times the sum of the separate volumes of cementitious materials (i.e. Portland cement plus lime). Provide aggregate in loose, damp

condition. Add water to produce a workable mix. 6 Coarse grout used in pilasters and walls shall conform to the volumetric proportions set forth in ASTM C 476. Use

one part Portland cement, 2.25 to 3 parts damp, loose sand, 1 to 2 parts 3/8" pea gravel. Add water to produce a flowable mix with an 8 to 11 inch slump. Alternatively, fine grout may be used that conforms to the volumetric proportions set forth in ASTM C 476 using

one part Portland cement, 2.25 to 3 parts damp loose sand and adding water to produce a flowable mix with an 8 to 11 inch slump. The steel reinforcing bars shall conform to ASTM A 615, Grade 60. Reinforcing bars to be lapped 48 bar diameters at

splices. Reinforcement to be secured against displacement at spacing not exceeding 200 bar diameters. 8 Joint (horizontal) reinforcement shall be hot-dipped galvanized W1.7 (9 gage) steel wire, ASTM A 951 with ASTM A 153 Class B-2 coating, Ladder type, by Hohmann & Barnard, Inc., or an approved equal. Place joint reinforcing in every second course (16"o.c.). Joint reinforcement shall be lapped 6 inches at splices.

9 Place units while mortar is soft and plastic. Remove and relay in fresh mortar any unit disturbed to the extent that initial bond is broken after initial positioning.

Fully bed units in all shear walls including cross webs. All cells with reinforcing bars or bolts shall be grouted solid. 12 Vertical cells to be grouted solid shall have a minimum clear opening of 3"x2-1/2". The entire perimeter of the cell

shall be fully bedded with mortar. 13 Consolidate grout pours exceeding 12 inches in height by mechanical vibration and reconsolidate by mechanical vibration after initial water absorption and settlement has occurred. Grout pours exceeding 5.33 feet are high lift pours and shall require cleanouts. High lift grouting shall not be used unless high lift grout procedures are submitted to the engineer for review and approved by the engineer.

Cover the tops of all masonry construction to protect against precipitation. Masonry shall not be constructed in temperatures below 40 F. Provide a heat source and protection as required to

maintain temperature above 40 F in accordance with ACI 530.1. Hot weather construction techniques shall be in accordance with ACI 530.1 and shall be implemented when the ambient air temperature exceeds 100 F, or 90 F if the wind speed exceeds 8 mph.

Unless otherwise shown on architectural or structural drawings provide vertical control joints through concrete masonry unit walls for full wall height as follows: Distance between joints should not exceed the lesser of length to height ratio of 1.5, or 25 feet At changes in wall height

At changes in wall thickness – including pipe and duct chases and pilasters At and above expansion joints in foundations and floors At and below expansion joints in roofs and floors that bear on the wall

For openings, do not locate control joints within 32 inches of openings Adjacent to corners of walls or at wall intersections within a distance equal to half the control joint spacing. Submittals to the engineer are required for certificates of compliance for block grade and strength, grout, mortar,

Connections to Existing Masonry or Hardened Concrete:

and reinforcing bars prior to delivery to the site.

1 All proprietary anchoring systems (expansion, adhesive anchoring systems, etc.) to be installed into hardened concrete and masonry elements are to be installed in strict accordance with the manufacturer's instructions for drilling and preparation of holes, for spacing and edge distance requirements, and for the utilization of supplemental components for the anchoring systems such as screen tubes, doweling adhesives, etc.

2 For connections to hardened concrete and masonry, contractor must locate the position of existing reinforcing bars with an R-meter or pilot holes prior to installation of anchors. Notify engineer of field conflicts prior to installation. Connections to hardened concrete shall be made with anchors conforming to ACI 318, as specified in the code reference section of these general notes, for cracked concrete, and Chapter 19 of the state building code indicated

at the beginning of these general notes. A. Mechanical anchors shall be either Hilti "Kwik Bolt TZ" expansion anchor.

cracked concrete and seismic applications.

Hilti "Kwik HUS-EZ" screw anchor (use only in permanently dry, interior non-corrosive environments) Dewalt "Power-Stud + SD2" expansion anchor.

Dewalt "Power-Stud + SD4/SD6", Type 304/316 SS expansion anchor Dewalt "Screw-Bolt+" screw anchor, zinc-plated or galvanized (use only in permanently dry, interior

Size, embedment, spacing and edge distance of anchors shall be as indicated on the drawings. B. Adhesive anchor rods or reinforcing bars shall be installed in rotary hammered drilled holes with carbide drill

bits using one of the following adhesive anchoring systems: Hilti "HIT-HY 200 safe set system" with hollow drill bit or Hilti "HIT-RE-500 V3" adhesive anchoring system with ISO 898 Class 5.8 anchors rods (minimum yield strength = 58 ksi and minimum ultimate strength = 72.5 ksi) or ASTM A 193 Grade B7 high strength anchor rods. Dewalt DUST X+ system with "Pure110+" epoxy adhesive, standard cure or Dewalt "AC200+" two part adhesive, cold temperature cure with ASTM A 193 B7 high strength anchor rods.

Reinforcing bars shall conform to the requirements of the Concrete General Notes. Adhesive for reinforcing bars and anchors shall have been tested in accordance with ACI 355.4 "Qualification of Post-Installed Adhesive Anchors in Concrete" and ICC-ES (ICC Evaluation Service) "Acceptance Criteria for Post-Installed Adhesive Anchors in Concrete Elements" (AC308) for

Adhesive bond design strength is based upon concrete that has cured at least 21 days with a minimum compressive strength of 2,500 psi and an in-service temperature in accordance with ACI 355.4 Temperature Category B.

Installation method shall be in accordance with the Manufacturer's Printed Installation Instructions Installation of adhesive anchors horizontally or upwardly inclined to support sustained tension loads shall be performed by personnel certified by the ACI/CRSI Adhesive Anchor Installer Certification

Unless otherwise noted on the drawings, embed anchor rods and reinforcing bars into drilled holes a minimum of 9 anchor diameters, with a minimum edge distance of 4 inches, measured from the edge of the concrete to the centerline of the anchor/reinforcing bar. Increased embedment depths or edge distances may be required at certain locations, see plans and details. 4 Connections to grout filled concrete masonry shall be made with either 1) Hilti standard "HAS-E" ISO 898 Class 5.8 anchor rods (minimum yield strength = 58 ksi and minimum ultimate strength = 72.5 ksi) using Hilti "HIT HY270" masonry adhesive anchoring systems or 2) Simpson "RFB" ASTM F 1554 Grade 36 anchor rods using

Simpson "Set-XP" masonry adhesive anchoring system or 3) ASTM F1554 Grade 36 or ASTM A 193 Grade B7 high strength anchor rods using Dewalt AC100+ Gold masonry adhesive anchoring system. A. Unless otherwise noted on the drawings, embed anchor rods into drilled holes a minimum of 9 anchor diameters, with a minimum edge distance of 4 measured from the edge of the masonry to the centerline of the anchor. Increased embedment depths or edge distances may be required at certain locations, see plans

and details. Connections to hollow concrete or clay brick masonry shall be made with either 1) Hilti standard "HAS-E" ISO 898 Class 5.8 anchor rods (minimum yield strength = 58 ksi and minimum ultimate strength = 72.5 ksi) using Hilti "HIT HY270" masonry adhesive anchoring system with "HIT-SC" composite screen tubes or 2) Simpson "RFB" ASTM F 1554 Grade 36 anchor rods using Simpson "SET-XP" masonry adhesive anchoring system with Simpson "Optimesh" plastic screen tubes or 3) ASTM F1554 Grade 36 or ASTM A 193 Grade B7 high strength anchor rods

using Dewalt AC100+ Gold masonry adhesive anchoring system with composite screen tubes. A. For anchors in hollow concrete masonry, embed anchor rods into drilled holes a minimum of 2 inches, with a minimum edge distance of 4 inches, unless otherwise noted, measured from the edge of the masonry to the centerline of the anchor. Increased embedment depths or edge distances may be required at certain

locations, see plans and details. For anchors in hollow clay brick masonry, embed anchor rods into drilled holes a minimum of 3 1/2 inches, with a minimum edge distance of 4 inches, unless otherwise noted, measured from the edge of the masonry to the centerline of the anchor. Increased embedment depths or edge distances may be required at certain

Materials:

locations, see plans and details.

Structural Steel Notes: 1 Design fabrication and erection of structural steel shall conform to the American Institute of Steel Construction's "Specification for Structural Steel for Buildings", as specified in the code reference section of these general notes.

ASTM A 992 Grade 50 Wide flange shapes American standard shapes, angles, Plates and bars: ASTM A 36 ASTM F3125, Grade A 325 Anchor rods ASTM F 1554, Grade 36

Welding electrode ASTM E 70xx, low hydrogen Shear connectors 3/4" diam. ASTM A 108 All welding shall conform to American Welding Society's AWS D1.1 "Structural Welding Code-Steel" code for arc and gas welding and be performed by a certified welder in accordance with A.W.S. standards.

High strength bolts: install high-strength bolts according to Research Council on Structural Connections' (RCSC's)

Specification for Structural Joints Using High-Strength Bolts" for type of bolt and type of joint specified. Joint type: Snug tightened unless otherwise noted. Beam reactions are indicated on the plans, refer to the typical beam legend for reaction designations. Beams with shear reactions not shown shall be designed for a 12 kip reaction (service loads for allowable stress design). The fabricator is responsible for designing connections for the reactions shown on these plans and submitting these design calculations, signed and sealed by a qualified professional engineer registered in the state of jurisdiction who is responsible for their preparation, for review by the structural engineer of record through the

designed for these values using the conventional "Allowable Stress Design" method, as specified in the AISC Steel Construction Manual indicated in the code reference section of these general notes. For moment connections, notch-tough welding electrodes, complying with AWS requirements, shall be used for full penetration welds. Also for full penetration welds, provide welding tabs at beam flange edges to allow welding of

architect. The reactions shown are "service" loads for "Allowable Stress Design" (ASD). Connections may be

Grout shall be nonmetallic, shrinkage-resistant grout conforming to ASTM C 1107, Grade B or C, factorypackaged, nonmetallic aggregate grout, noncorrosive, nonstaining, mixed with water to consistency suitable for application and a 30-minute working time.

Structural steel shall be cleaned in accordance with the Steel Structures Painting Council Specification SP 3 for Power Tool Cleaning (except for steel exposed to weather).

10 All steel members and bolting exposed to weather shall be cleaned in accordance with the Steel Structures Painting Council Specification SP 6 for Commercial Blast Cleaned and hot-dipped galvanized in accordance with ASTM A 123 and ASTM A 153. Minimum acceptable zinc coating weight shall be 2 oz./sq. Ft. See architectural specifications for finished paint if required. Clean areas where galvanizing is damaged or missing and repair galvanizing to comply with ASTM A 780.

Provide bitumastic protection coating for all structural steel below grade. 12 Continuous members, where indicated on the drawings, shall require either 1) the member to be furnished as one

piece, or 2) if individual pieces are to be provided, then they shall be connected by either welding or bolting to develop the full strength of the continuous member. Provide 1/4" closure plates with seal weld at ends of all HSS members.

Fabricator shall hold a current AISC certification for "Certified Building Fabricator (BU)", (formerly known as "Standard for Steel Building Structures (STD)".)

For miscellaneous steel, see architectural drawings.

Existing steel surfaces to receive field welds shall be thoroughly cleaned and free from paint, rust, grease, etc. 17 Submittals to the engineer are required for certificates of compliance for structural steel, bolts, nuts, washers, and weld filler material prior to the fabrication of any steel

At the completion of fabrication, the fabricator shall submit a certificate of compliance stating that the work was performed in accordance with the approved contract documents, as required by Section 1704.2 of the building code indicated at the beginning of these General Notes.

Steel Deck Notes:

Steel deck shall be designed, fabricated, and erected in accordance with the current specification of the Steel Deck

Composite formed steel floor deck to be 2" deep, 18 gage (uncoated steel thickness = 0.0474"), galvanized (G60 coating), United Steel Deck Type Lok-Floor, composite floor deck as manufactured by Canam Steel Corporation, or an approved equal.

The steel deck shall be supplied in minimum lengths as required to provide a "3-span" condition. Column closures, end closures, z-closures, cover plates, roof sumps, and closures at penetrations of same material, finish, and thickness as deck and all other accessories necessary for a complete installation are required. Provide additional reinforcement and closure pieces at edges and openings as required for strength, continuity of deck, and support of other work.

Composite formed steel floor deck shall be welded to supporting steel with 5/8" diameter puddle welds at 12" on center. Intermediate side connections shall be made with #10 self tapping screws at a maximum spacing of 3'-0" on center. In lieu of puddle welds, powder actuated fasteners having the same capacity as the specified puddle welds, may be

used. Fasteners shall be manufactured by Hilti, Inc. or an approved equal. Shop drawings shall be submitted for approval to the engineer indicating fastener data including size vs. steel substrate material, spacings, capacities, including diaphragm shear capacities, method of installation and program for quality assurance of installation. Steel deck must be protected before and after erection and all debris cleaned from its surface where concrete will be

poured or roofing is to be placed.

1 Unless otherwise noted, for lintels over doors, windows, ducts, and miscellaneous openings in non-bearing 4", 8"

and 12" CMU walls and brick walls	use for each 4" of masonry:	elianeous openings in non-bearing
Angle size	Max. M.O.	Bearing each end
3 1/2" x 3/8" flat plate	2'-0"	6"
3 1/2" x 4" x 5/16" (LLV)	3'-6"	6"
3 1/2" x 5" x 5/16" (LLV)	5'-0"	6"
3 1/2" x 6" x 5/16" (LLV)	6'-0"	8"
3 1/2" x 6" x 3/8" (LLV)	8'-0"	8"

Openings in non-bearing walls masonry where no specific lintels or lintel sizes are indicated shall have 8" bearing at each end and shall have the following sizes: <u>Max. M.O.</u> Wall thickness <u>Lintel size</u>

9'-0" 9"-13" W8x31 + 5/16" plate 12'-0" 9"-13" W8x35 + 5/16" plate Plates indicated in above lintels shall have a width 1" less than the wall thickness and a length 1" less than the

Provide 7 1/2" x 5/8" x 0'-7 1/2" bearing plates on 3/4" grout bed with (2)-5/8" diameter x 6" long welded anchor studs at 3" o.c. unless otherwise noted. Field weld bottom flange of beam to bearing plate with 1/4" weld at each side of flange.

For 6" masonry partitions use WT 7x13 for spans up to 7'-0" with 6" bearing each end. For 10" masonry partitions use WT 7x21.5 for spans up to 7'-0" with 8" bearing each end. Fill the first two courses directly under bearing with grout for 16" length. See architectural and mechanical drawings for size and location of openings. When openings occur in bearing walls or the height of masonry above the lintel is less than the opening width or

indicate a specific lintel design, consult with the architect to confirm lintel requirements. Lintels over adjacent openings with piers between less than 2'-8" wide shall be continuous over piers. Masonry units of such piers shall be filled with grout for full story height.

when a control joint is located directly above or within 16" of the jamb opening and drawings do not otherwise

Connect lintel to structural steel columns when there is less than 16" of masonry between the masonry opening and the outermost face of column. Lintels supporting exterior masonry shall be hot-dipped galvanized. See structural steel notes.

for doors, windows, ducts, louvers, etc.. For masonry opening size and location of all wall openings, so

opening size, see notes, above, unless otherwise noted on plans.

11 Lintels for openings in walls: These plans do not show the full scope of steel lintels required for new wall openings

architectural and mechanical drawings. Do not scale openings. For steel lintel size for corresponding masonry

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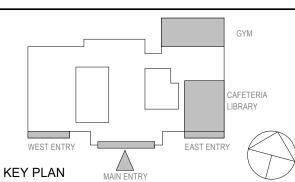
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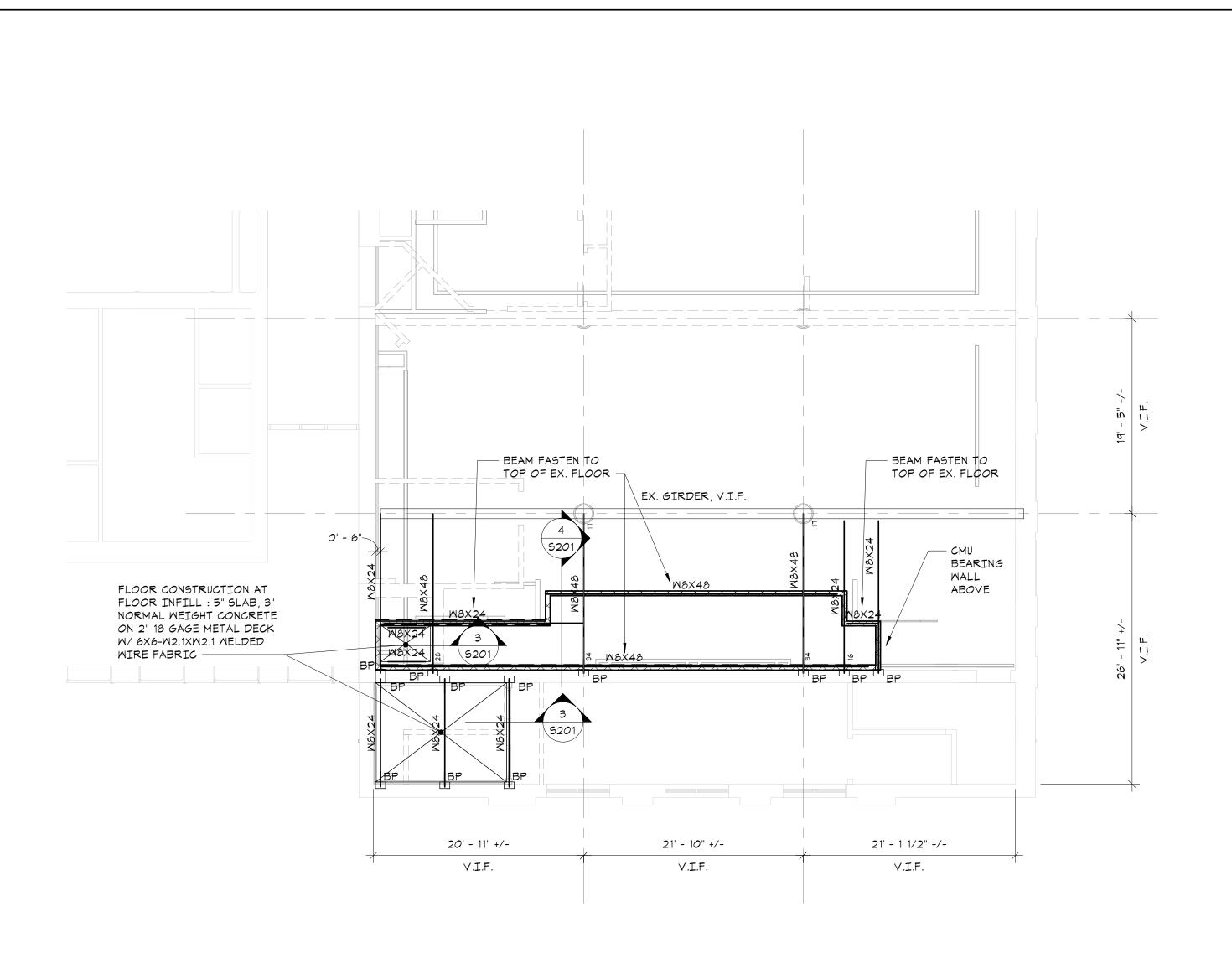
GENERAL NOTES AND MATERIAL **SPECIFICATIONS**

09/10/2021

Scale Drawn / Checked AS NOTED **Author Checker** Sheet Number

Job No.

21124.00



LIBRARY FLOOR FRAMING PARTIAL PLAN

NORTH:

• TOP OF LIBRARY FLOOR ELEVATION:7'-1" +/- ABOVE DATUM.

1/8"=1'-0"

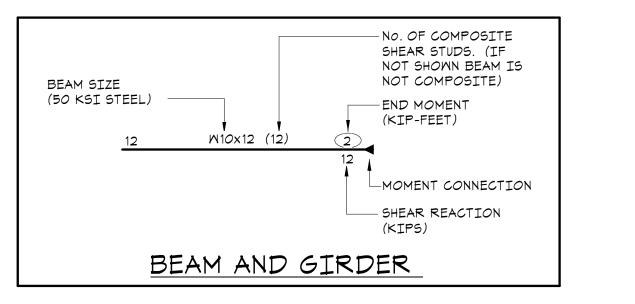
- "BP" INDICATES BEARING POCKET, SEE TYPICAL BEARING POCKET DETAIL FOR MORE INFO.
- COORDINATE SIZE AND LOCATION OF ALL FLOOR PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS. ALL FLOOR PENETRATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION OF PENETRATION FRAMING ELEMENTS. PROVIDE FRAMING AS INDICATED IN "TYPICAL ROOF/FLOOR OPENING DETAIL". DO NOT SCALE OPENINGS.
- CONTRACTOR TO FIELD VERIFY EXISTING FLOOR FRAMING AND SHOW SIZES ON STEEL ERECTION DRAWINGS PRIOR TO SUBMITTING FOR REVIEW.
- SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

/ SLAB EDGE, SEE ARCH. DRAWING CMU BEARING WALL BELOW, SEE ARCH. DRAWING, FOR EXTENT - DECK DIRECTION BP BP Wax31 BP BP Wax31 W/ 5/16 PLATE | W/ 5/16 PLATE | W/ 5/16 PLATE W/ 5/16 PLATE 20' - 11" +/-21' - 10" +/-21' - 1 1/2" +/-V.I.F. V.I.F. V.I.F.

LIBRARY STUDY AREA FLOOR FRAMING PLAN

1/8"=1'-0"

- TOP OF LIBRARY STUDY AREA FLOOR ELEVATION: 11'-6" +/- (ALIGN WITH EXISTING) ABOVE DATUM.
- FLOOR CONSTRUCTION: 6 " COMPOSITE CONCRETE SLAB = 4" NORMAL WEIGHT CONCRETE ON 2" 18 GAGE COMPOSITE DECK REINFORCED MITH #4 AT 18" O.C. EACH MAY.
- "BP" INDICATES BEARING POCKET, SEE TYPICAL BEARING POCKET DETAIL FOR MORE INFO.
- COORDINATE SIZE AND LOCATION OF ALL FLOOR PENETRATIONS WITH ARCHITECTURAL, MECHANICAL, AND ELECTRICAL DRAWINGS, ALL FLOOR PENETRATIONS SHALL BE REVIEWED BY THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION OF PENETRATION FRAMING ELEMENTS. PROVIDE FRAMING AS INDICATED IN "TYPICAL ROOF/FLOOR OPENING DETAIL". DO NOT SCALE OPENINGS.
- SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.



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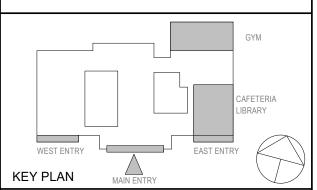
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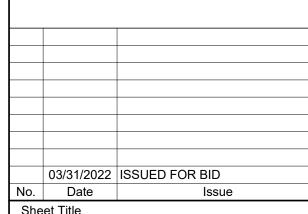


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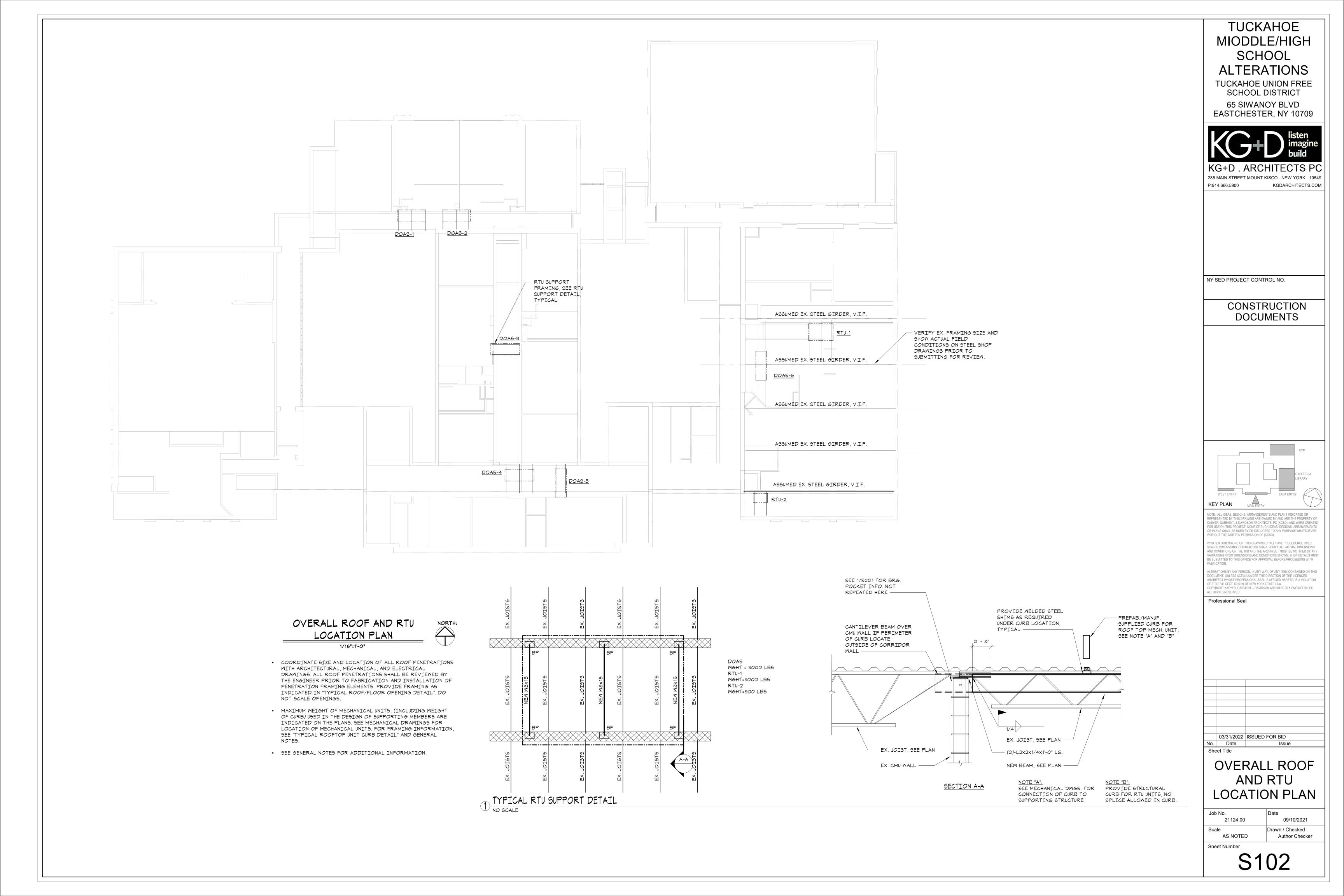
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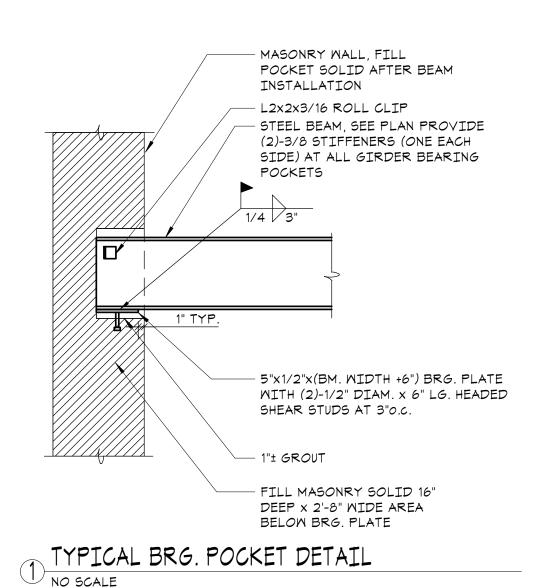
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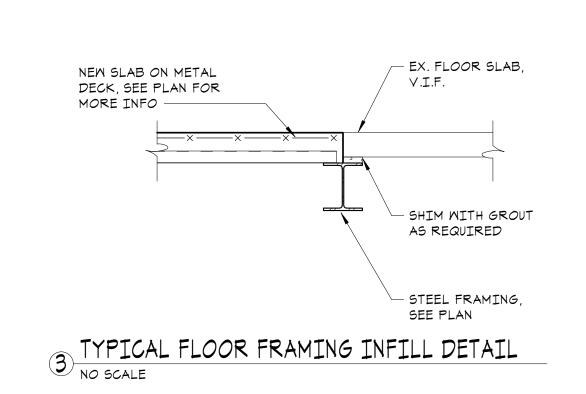


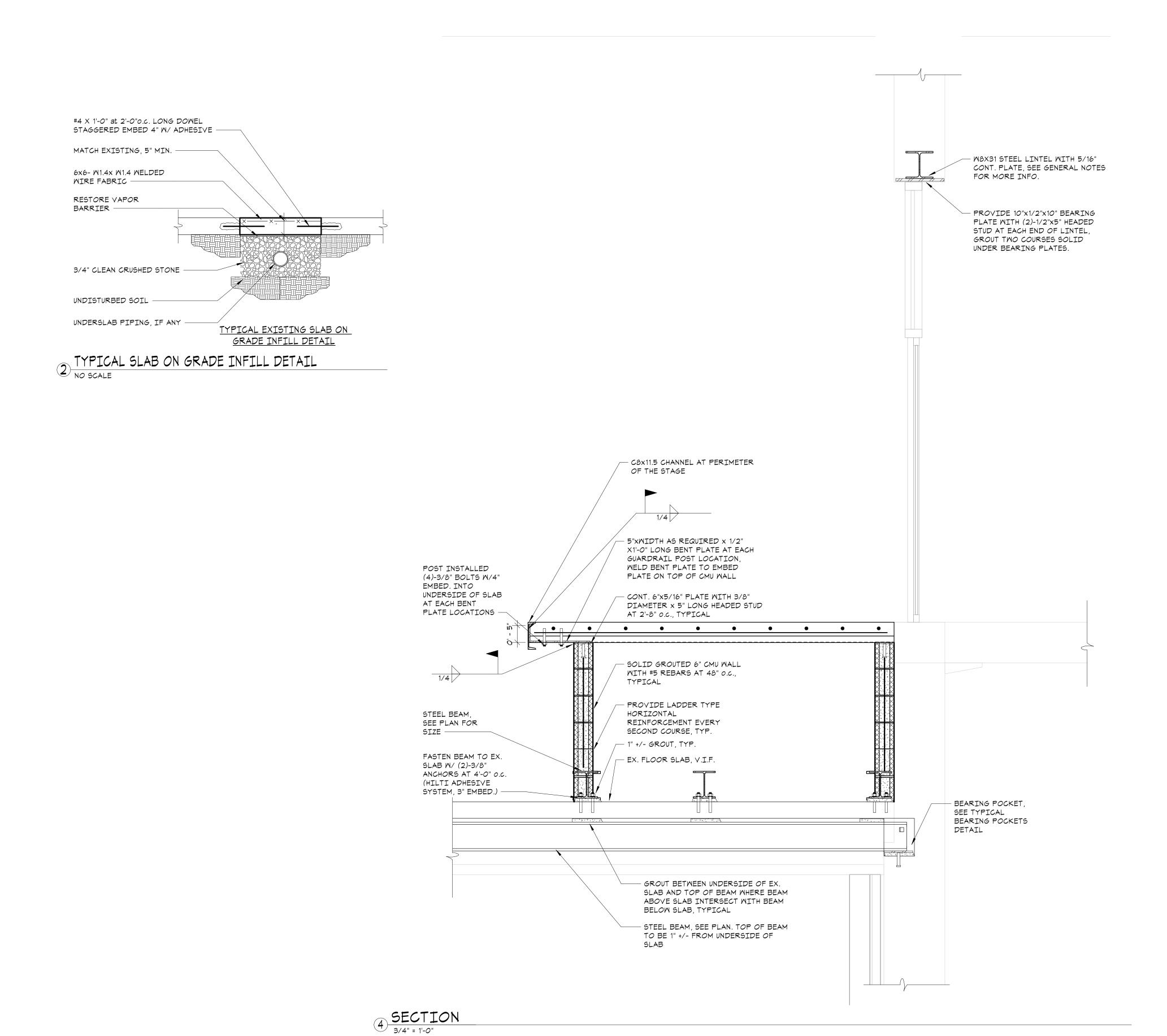
Sheet Title LIBRARY FLOOR AND STUDY AREA FLOOR FRAMING PLAN

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TUCKAHOE MIODDLE/HIGH SCHOOL ALTERATIONS

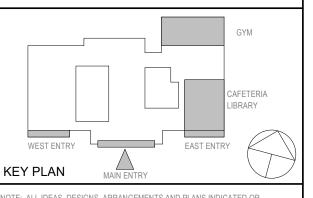
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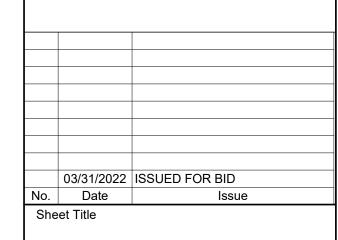


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FRAMING DETAILS

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Sheet Number	

S201

ADD/ALTERNATES

INSTALLATION OF HVAC DOAS UNITS #, 4, & 5, RELATED ACCU UNITS 2, 3, 6, 7 & 8 AND RELATED INDOOR DUCTWORK, REGISTERS, CONTROLS & ANY & ALL DEMOLITION & PATCHING - COORD W/ ALL MEP DWGS

#2 INSTALLATION OF HVAC DOAS UNITS #,1 & 2, RELATED ACCU UNITS 1, 4 & 5 AND ALL RELATED INDOOR DUCTWORK, REGISTERS, CONTROLS, ETC. & ANY & ALL DEMOLITION & PATCHING - REMOVAL & REPLACEMENT OF EXIST ROOFTOP RAILING SYSTEM AS INDICATED ON A251 - COORD W/ ALL MEP DWGS

REMOVAL & REPLACEMENT OF EXIST GYMNASIUM HARDWOOD FLOORING SYSTEM, TEMPORARY REMOVAL, STORAGE & REISTALLATION OF EXIST WOOD BLEACHER SYSTEM - TEMPORARY REMOVAL. STORAGE & REINSTALLATION OF EXIST CEILING HUNG DIVIDER CURTAINS

ALL WORK RELATED TO CLEANING, REPOINTING & RESTORATION OF EXIST STONE LINTELS OF TUFSD - HS - EAST ENTRANCE AS SHOWN ON 1/A302 & RELATED PHOTOGRAPHS

ALL WORK RELATED TO CLEANING, REPOINTING & RESTORATION OF EXIST STONE LINTELS OF TUFSD - HS - WEST ENTRANCE AS SHOWN ON 2/A302 & RELATED PHOTOGRAPHS

DEMOLITION KEYNOTES

REMOVE & DISPOSE EXIST DOOR, FRAME AND ALL ASSOCIATED HARDWARE - COORD. INFILL W/ NEW

CONSTRUCTION REMOVE & DISPOSE EXIST DOOR AND ALL ASSOCIATED HARDWARE. EXIST JAMB TO REMAIN, PREP FOR

NEW DOOR INSTALLATION - COORD. W/ NEW CONSTRUCTION

REMOVE & DISPOSE EXIST DOOR LOCKSET HARDWARE, EXIST DOOR, JAMB, FRAME AND PANEL TO REMAIN - REPAIR EXIST JAMB IN PREPARATION OF INSTALLATION OF NEW DOOR LOCKSETS - COORD. W/ DOOR SCHEDULE FOR NEW DOOR HARDWARE.

CREATE NEW OPENING IN EXIST MASONRY WALL FOR NEW DUCTWORK - SAW CUT AS REQ. FIRE PROOFING & ROUGH PATCH BY TRADE, FINISH PATCH & MATCH BY GC - PROVIDE NEW LINTELS IN EXIST MASONRY WALLS AS REQ - COORD W/ ADD/ALT #1 & 2 - COORD W/ STRUCTURAL, MEP & NEW

REMOVE, STORE & REINSTALL EXIST CEILING TILES & GRID IN THIS AREA TO ACCOMODATE NEW MECHANICAL EQUIPMENT INSTALLATION - ADD 15% NEW GRID & CEILING TILES TO MATCH EXIST MATERIALS DAMAGED DURING REMOVAL AND REINSTALLATION - COORD W/ ADD/ALT #1 & 2 - COORD W/ STRUCTURAL, MEP & NEW CONSTRUCTION

CUT OPEN EXIST GYP BD SOFFIT TO ACCOMMODATE NEW MEP EQUIPMENT INSTALLATION - FIRE PROOFING & ROUGH PATCH BY TRADE, FINISH PATCH & MATCH TO EXIST ADJACENT SURFACES BY GC -COORD W/ ADD/ALT #1 & 2 - COORD W/ MEP & NEW CONSTRUCTION

SAW CUT ANY & ALL THROUGH FLOOR/CEILING/ROOF DUCTWORK PENETRATIONS AS REQ - FIRE PROOFING & ROUGH PATCH BY TRADE. FINISH PATCH & MATCH TO EXIST ADJACENT SURFACES BY GC ALL AFFECTED FLOOR. CEILING & ROOF AREAS - SEE MECH DWGS FOR INFO - ALL BY GC - COORD W/ ADD/ALT #1 & 2 - COORD W/ STRUCTURAL, MEP & NEW CONSTRUCTION

CORE DRILL ANY & ALL THROUGH WALL/CEILING & FLOOR PENETRATIONS AS REQ BY TRADE - FIRE PROOFING & ROUGH PATCH BY TRADE, FINISH PATCH & MATCH BY GC

DEMOLITION NOTES

DENOTES AREA OF NO MAJOR

ARCHITECTURAL WORK. SPECIFIC WORK MAY BE SHOWN ELSEWHERE INCLUDING WORK THAT MAY REQUIRE ACCESS, PATCHING & RESTORATION, REFER TO STRUCTURAL & M.E.P. DWGS

DENOTES AREA OF CEILING WORK IN CORRIDORS AND ADJ. CLASSROOMS REFER TO KEYNOTES FOR MORE INFO ADD/ALT #1 & #2

ON EXTENT OF DEMOLITION - COORD W DENOTES AREA OF <u>NEW WORK</u>. REFER TO KEYNOTES AND ANNOTATIONS FOR MORE INFO ON EXTENT OF DEMOLITION

4 = = = DENOTES EXISTING CONSTRUCTION TO BE DEMOLISHED (U.N.O.).

 MOST EXISTING INTERIOR WALLS AR OF MASONRY CONSTRUCTION w/

CEMENT PLASTER & LATH. MOST EXISTING EXTERIOR WALLS ARE BRICK w/ BLOCK BACKUP & SOME HAVE INNER WYTHE OF BLOCK w/

5 DENOTES EXISTING WALL TO REMAIN

CEMENT PLASTER & LATH.

6 PRIOR TO ANY DEMOLITION CONTRACTORS ARE REQUIRED TO BE FAMILIAR WITH EXISTING CONDITIONS. SHORING MAY BE NEEDED INCLUDING INSTALLATION OF LINTELS PRIOR TO THE REMOVAL OF ANY BUILDING ELEMENT.

COORDINATE ALL DEMOLITION w/ M.E.P. REMOVALS. NOTE: ALL WIRING, DEVICES & M.E.P. SYSTEMS NOT BEING REMOVED AS PART OF THE WORK, WHICH RUN THROUGH THE WORK AREA, SHALL BE TESTED. LABELED & PROTECTED FROM DISTURBANCE SO THEY REMAIN OPERATIONAL THROUGHOUT THE PROJECT.

8 IN AREAS OF CONSTRUCTION - PROTECT ALL EXIST FLOORS THAT ARE TO REMAIN W/ RAMBOARD OR EQ THROUGHOUT ALL PHASES OF CONSTRUCTION - TYP

MIDDLE/HIGH SCHOOL **ALTERATIONS TUCKAHOE UNION FREE**

TUCKAHOE

SCHOOL DISTRICT 65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



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CONSTRUCTION DOCUMENTS

ÖVERALL 1ST

FLOOR

DEMOLITION

PLAN

A101

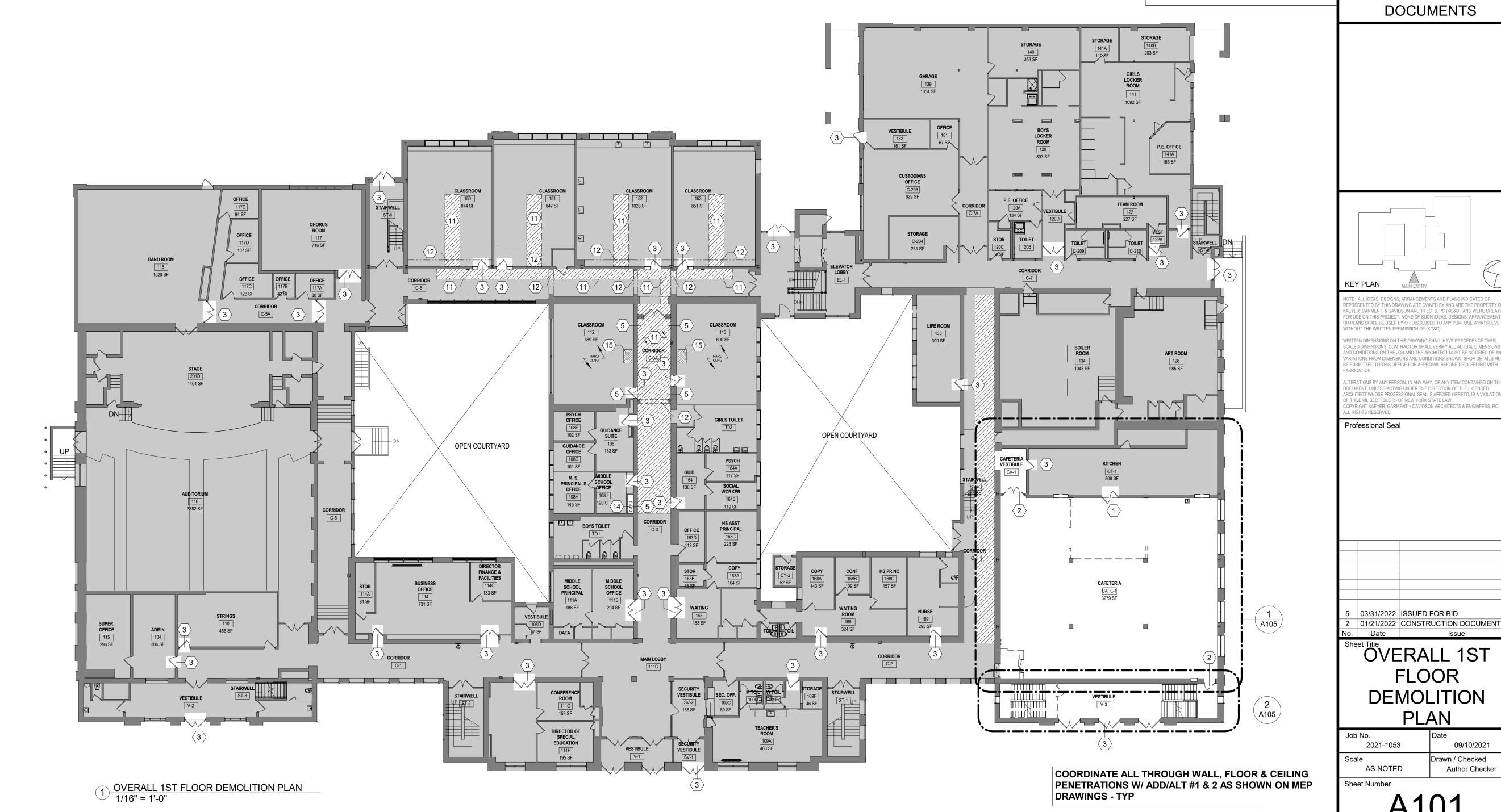
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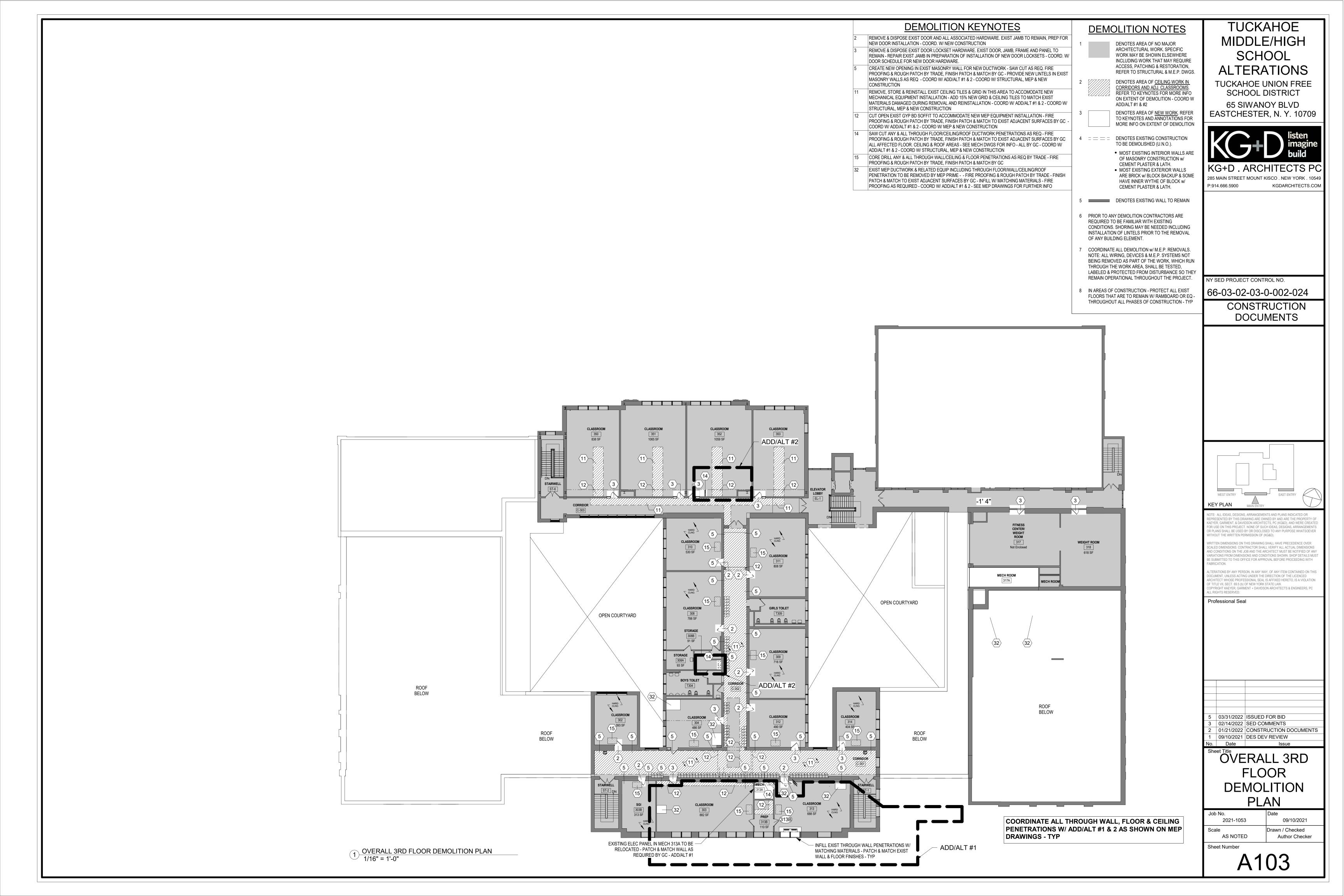
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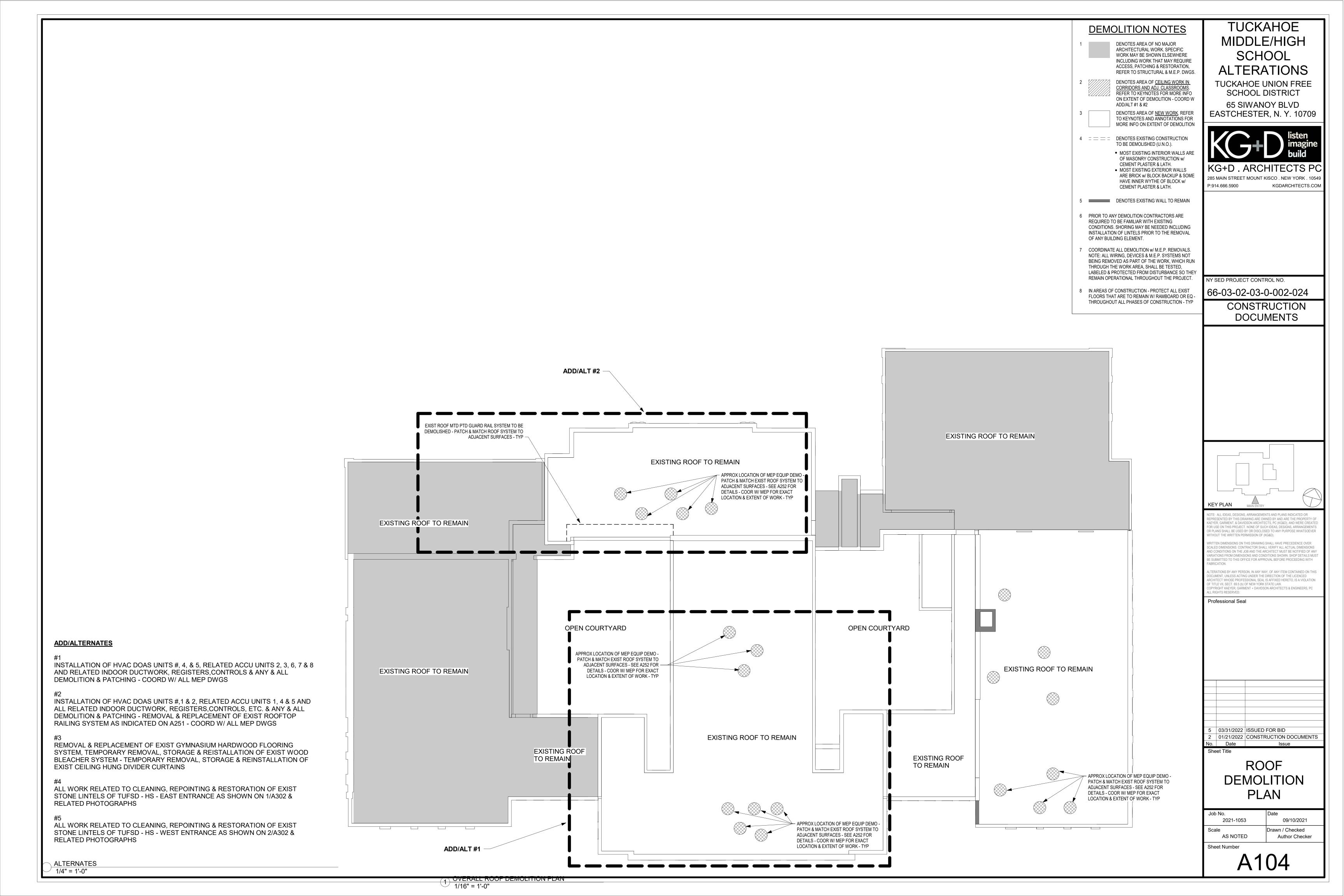
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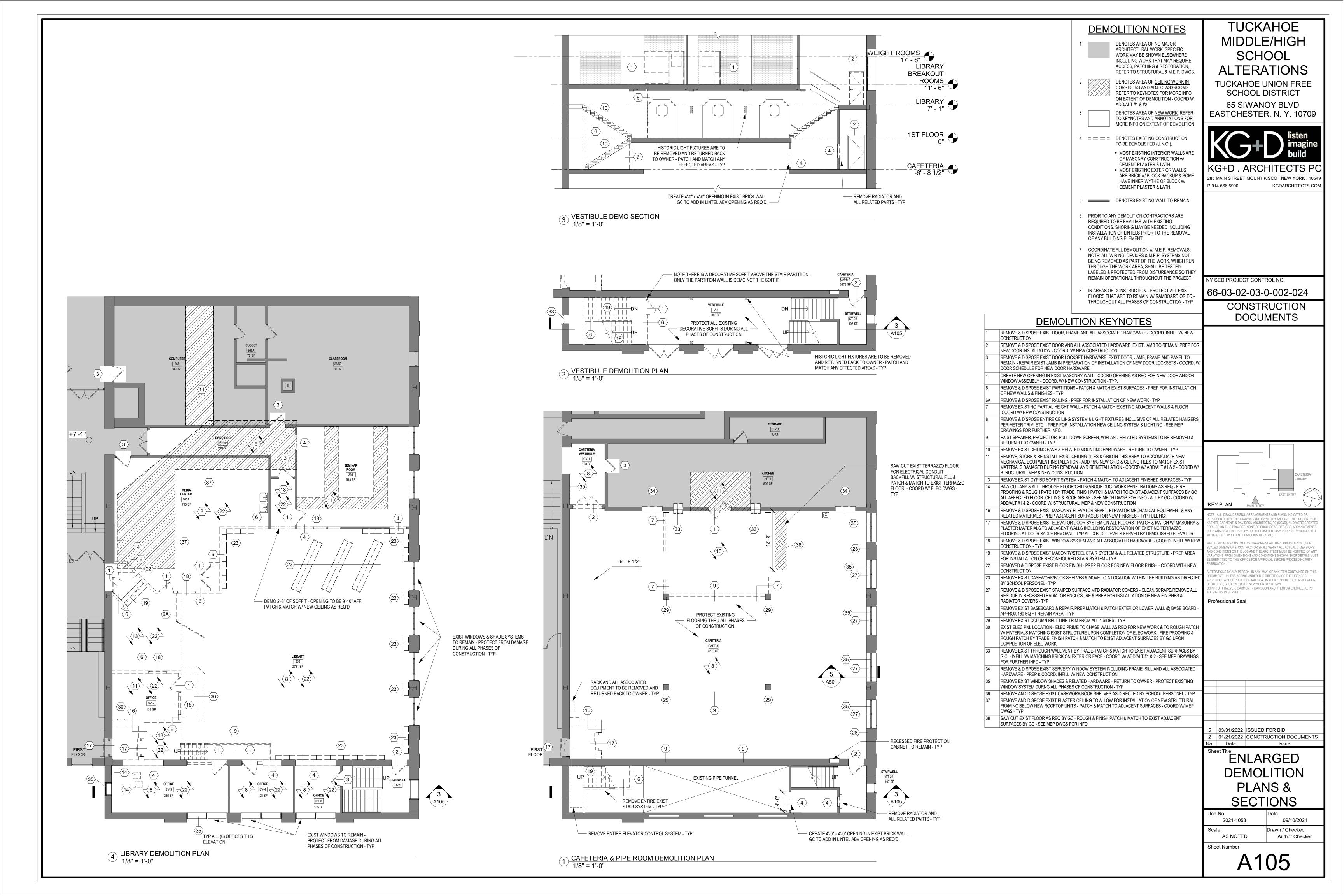
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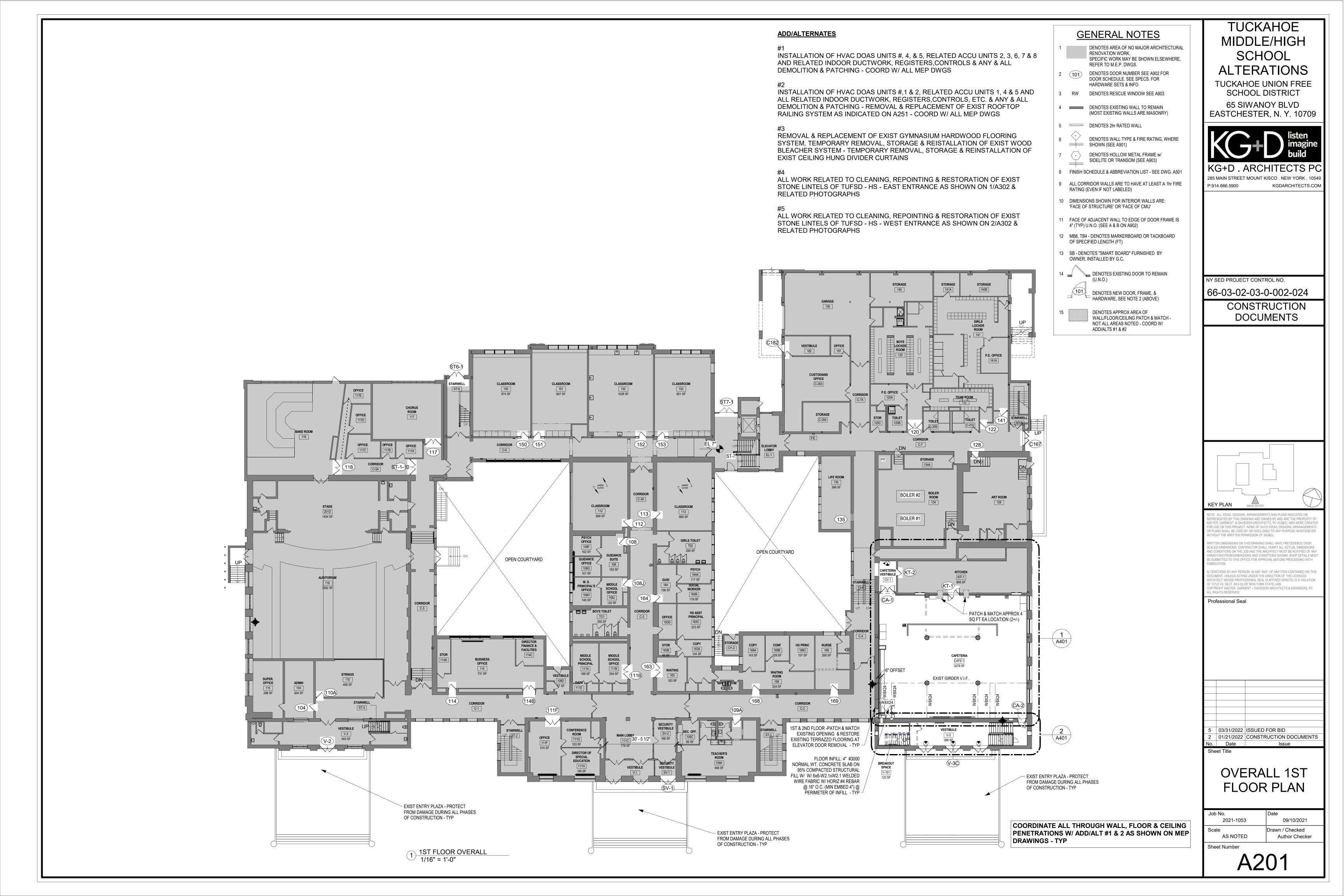


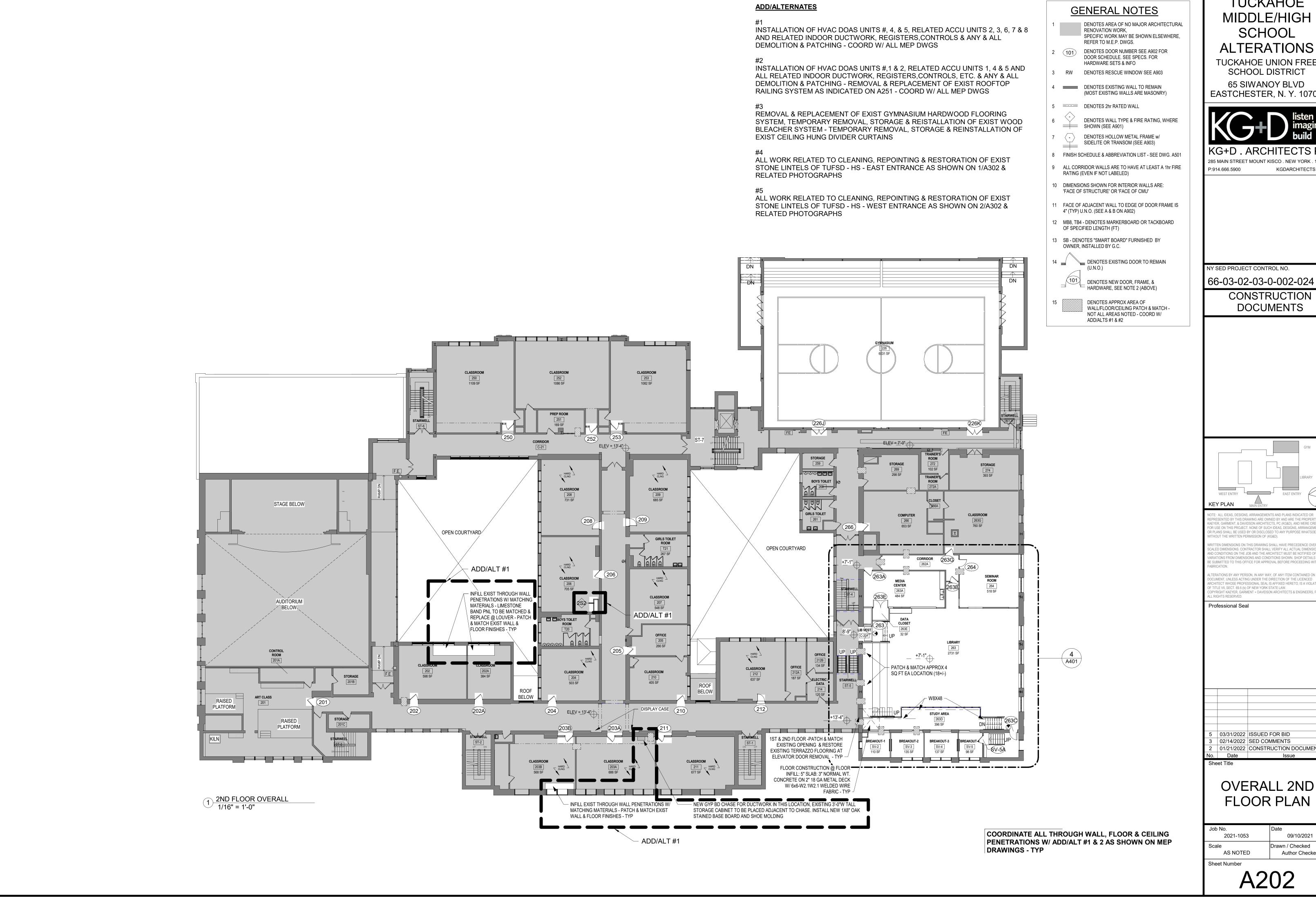
TUCKAHOE **DEMOLITION KEYNOTES DEMOLITION NOTES ADD/ALTERNATES** REMOVE & DISPOSE EXIST DOOR, FRAME AND ALL ASSOCIATED HARDWARE - COORD, INFILL W/ NEW MIDDLE/HIGH CONSTRUCTION DENOTES AREA OF NO MAJOR ARCHITECTURAL WORK. SPECIFIC REMOVE & DISPOSE EXIST DOOR AND ALL ASSOCIATED HARDWARE. EXIST JAMB TO REMAIN, PREP FOR SCHOOL INSTALLATION OF HVAC DOAS UNITS #, 4, & 5, RELATED ACCU UNITS 2, 3, 6, 7 & 8 WORK MAY BE SHOWN ELSEWHERE NEW DOOR INSTALLATION - COORD. W/ NEW CONSTRUCTION INCLUDING WORK THAT MAY REQUIRE AND RELATED INDOOR DUCTWORK, REGISTERS, CONTROLS & ANY & ALL REMOVE & DISPOSE EXIST DOOR LOCKSET HARDWARE. EXIST DOOR, JAMB, FRAME AND PANEL TO ACCESS, PATCHING & RESTORATION, **ALTERATIONS** REMAIN - REPAIR EXIST JAMB IN PREPARATION OF INSTALLATION OF NEW DOOR LOCKSETS - COORD. W/ DEMOLITION & PATCHING - COORD W/ ALL MEP DWGS REFER TO STRUCTURAL & M.E.P. DWGS DOOR SCHEDULE FOR NEW DOOR HARDWARE. CREATE NEW OPENING IN EXIST MASONRY WALL FOR NEW DUCTWORK - SAW CUT AS REQ. FIRE DENOTES AREA OF CEILING WORK IN **TUCKAHOE UNION FREE** PROOFING & ROUGH PATCH BY TRADE, FINISH PATCH & MATCH BY GC - PROVIDE NEW LINTELS IN EXIST CORRIDORS AND ADJ. CLASSROOMS INSTALLATION OF HVAC DOAS UNITS #,1 & 2, RELATED ACCU UNITS 1, 4 & 5 AND MASONRY WALLS AS REQ - COORD W/ ADD/ALT #1 & 2 - COORD W/ STRUCTURAL, MEP & NEW SCHOOL DISTRICT REFER TO KEYNOTES FOR MORE INFO ALL RELATED INDOOR DUCTWORK, REGISTERS, CONTROLS, ETC. & ANY & ALL ON EXTENT OF DEMOLITION - COORD W REMOVE. STORE & REINSTALL EXIST CEILING TILES & GRID IN THIS AREA TO ACCOMODATE NEW ADD/ALT #1 & #2 65 SIWANOY BLVD DEMOLITION & PATCHING - REMOVAL & REPLACEMENT OF EXIST ROOFTOP MECHANICAL EQUIPMENT INSTALLATION - ADD 15% NEW GRID & CEILING TILES TO MATCH EXIST DENOTES AREA OF <u>NEW WORK</u>. REFER TO KEYNOTES AND ANNOTATIONS FOR RAILING SYSTEM AS INDICATED ON A251 - COORD W/ ALL MEP DWGS EASTCHESTER, N. Y. 10709 MATERIALS DAMAGED DURING REMOVAL AND REINSTALLATION - COORD W/ ADD/ALT #1 & 2 - COORD W/ STRUCTURAL, MEP & NEW CONSTRUCTION MORE INFO ON EXTENT OF DEMOLITION CUT OPEN EXIST GYP BD SOFFIT TO ACCOMMODATE NEW MEP EQUIPMENT INSTALLATION - FIRE PROOFING & ROUGH PATCH BY TRADE, FINISH PATCH & MATCH TO EXIST ADJACENT SURFACES BY GC -REMOVAL & REPLACEMENT OF EXIST GYMNASIUM HARDWOOD FLOORING 4 = = = DENOTES EXISTING CONSTRUCTION COORD W/ ADD/ALT #1 & 2 - COORD W/ MEP & NEW CONSTRUCTION SYSTEM, TEMPORARY REMOVAL, STORAGE & REISTALLATION OF EXIST WOOD TO BE DEMOLISHED (U.N.O.). SAW CUT ANY & ALL THROUGH FLOOR/CEILING/ROOF DUCTWORK PENETRATIONS AS REQ - FIRE BLEACHER SYSTEM - TEMPORARY REMOVAL, STORAGE & REINSTALLATION OF PROOFING & ROUGH PATCH BY TRADE. FINISH PATCH & MATCH TO EXIST ADJACENT SURFACES BY GC MOST EXISTING INTERIOR WALLS AR EXIST CEILING HUNG DIVIDER CURTAINS ALL AFFECTED FLOOR. CEILING & ROOF AREAS - SEE MECH DWGS FOR INFO - ALL BY GC - COORD W/ OF MASONRY CONSTRUCTION w/ ADD/ALT #1 & 2 - COORD W/ STRUCTURAL, MEP & NEW CONSTRUCTION CEMENT PLASTER & LATH. CORE DRILL ANY & ALL THROUGH WALL/CEILING & FLOOR PENETRATIONS AS REQ BY TRADE - FIRE MOST EXISTING EXTERIOR WALLS PROOFING & ROUGH PATCH BY TRADE, FINISH PATCH & MATCH BY GC ARE BRICK w/ BLOCK BACKUP & SOME ALL WORK RELATED TO CLEANING, REPOINTING & RESTORATION OF EXIST 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 HAVE INNER WYTHE OF BLOCK w/ REMOVE EXIST EXTERIOR STAIR STEEL NOSINGS - INFILL VOID W/ NON-EXPANDING HIGH YIELD STONE LINTELS OF TUFSD - HS - EAST ENTRANCE AS SHOWN ON 1/A302 & KGDARCHITECTS.COM P:914.666.5900 CONCRETE PATCH IN PREPARATION OF INSTALLATION OF NEW FULL DEPTH & WIDTH SAFETY TREADS -CEMENT PLASTER & LATH. RELATED PHOTOGRAPHS TYP 13 TREADS @ EAST & WEST EXTERIOR GYM STAIRS REMOVED & DISPOSE EXIST FLOOR FINISH - PREP FLOOR FOR NEW FLOOR FINISH - COORD WITH NEW DENOTES EXISTING WALL TO REMAIN CONSTRUCTION REMOVE EXIST HARDWOOD FLOOR SYSTEM & ALL RELATED COMPONENTS DOWN TO EXIST CONCRETE ALL WORK RELATED TO CLEANING, REPOINTING & RESTORATION OF EXIST PRIOR TO ANY DEMOLITION CONTRACTORS ARE SLAB - REMOVE, STORE & REINSTALL ALL IN-FLOOR EQUIPMENT SLEEVES & RELATED EQUIPMENT IN THE REQUIRED TO BE FAMILIAR WITH EXISTING STONE LINTELS OF TUFSD - HS - WEST ENTRANCE AS SHOWN ON 2/A302 & SAME LOCATIONS - PREP EXIST CONCRETE FLOOR FOR INSTALLATION OF NEW HARDWOOD GYM FLOOR CONDITIONS. SHORING MAY BE NEEDED INCLUDING RELATED PHOTOGRAPHS SYSTEM - PROTECT EXIST PERIMETER WALL MATS AND EGRESS DOORS FROM DAMAGE DURING ALL INSTALLATION OF LINTELS PRIOR TO THE REMOVAL PHASES OF CONSTRUCTION - COORD W/ ADD/ALT #3 - TYP OF ANY BUILDING ELEMENT. REMOVE, STORE & REINSTALL EXIST WOOD BLEACHER SYSTEM IN EXIST LOCATION -COORD W/ ADD/AL COORDINATE ALL DEMOLITION w/ M.E.P. REMOVALS. REMOVE, STORE & REINSTALL EXIST GYM CEILING HUNG DIVIDER CURTAINS - COORD W/ ADD/ALT #3 -NOTE: ALL WIRING, DEVICES & M.E.P. SYSTEMS NOT BEING REMOVED AS PART OF THE WORK, WHICH RUN THROUGH THE WORK AREA, SHALL BE TESTED, EXIST MEP UNIT VENT EQUIP INCLUDING THROUGH WALL FRESH AIR PENETRATION & EXTERIOR LOUVER TO BE REMOVED BY MEP PRIME - FIRE PROOFING & ROUGH PATCH BY TRADE, FINISH PATCH & MATCH LABELED & PROTECTED FROM DISTURBANCE SO THEY TO EXIST ADJACENT SURFACES BY GC - INFILL EXTERIOR WALL W/ MATCHING MATERIALS - COORD W/ REMAIN OPERATIONAL THROUGHOUT THE PROJECT. NY SED PROJECT CONTROL NO. ADD/ALT #1 & 2 - SEE MEP DRAWINGS FOR FURTHER INFO 8 IN AREAS OF CONSTRUCTION - PROTECT ALL EXIST 66-03-02-03-0-002-024 FLOORS THAT ARE TO REMAIN W/ RAMBOARD OR EQ THROUGHOUT ALL PHASES OF CONSTRUCTION - TYP CONSTRUCTION DOCUMENTS EXIST PERIMETER EQUIP TO REMAIN -PROTECT FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION - TYP TRAINER'S/ ROOM 259 PRESENTED BY THIS DRAWING ARE OWNED BY AND ARE THE PROPERTY OR USE ON THIS PROJECT, NONE OF SUCH IDEAS, DESIGNS, ARRANGEMEN R PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER BOYS TOILET TRAINER'S ROOM CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF AI SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH **GIRLS TOILET** OCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENCED HITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE VII. SECT. 69.5 (b) OF NEW YORK STATE LAW. RIGHTS RESERVED. Professional Seal OPEN COURTYARD OPEN COURTYARD C -20 _ INFILL EXIST THROUGH WALL PENETRATIONS W/ MATCHING MATERIALS - LIMESTONE BAND PNL TO BE MATCHED 8 REPLACE @ LOUVER - PATCH & MATCH EXIST WALL & ROOM FLOOR FINISHES - TYP 5 03/31/2022 ISSUED FOR BID 2 01/21/2022 CONSTRUCTION DOCUMENTS **ÖVERALL 2ND** +13'-4" **FLOOR DEMOLITION** 4 A105 **PLAN** 09/10/2021 2021-1053 Scale Drawn / Checked AS NOTED Author Checker COORDINATE ALL THROUGH WALL, FLOOR & CEILING RELOCATE EXISTING 3'-0"W TALL STORAGE CABINET, PROTECT DURING ALL PHASES Sheet Number OVERALL 2ND FLOOR DEMOLITION PLAN 1/16" = 1'-0" MATCHING MATERIALS - PATCH & MATCH EXIST OF CONSTRUCTION. SEE NEW CONSTRUCTION FOR MORE INFO. PENETRATIONS W/ ADD/ALT #1 & 2 AS SHOWN ON MEP A102 WALL & FLOOR FINISHES - TYP DRAWINGS - TYP











ALTERATIONS

TUCKAHOE MIDDLE/HIGH SCHOOL

TUCKAHOE UNION FREE SCHOOL DISTRICT

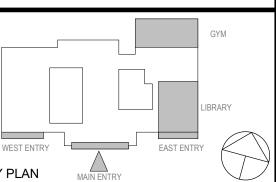
65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



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03/31/2022 ISSUED FOR BID 3 02/14/2022 SED COMMENTS

2 01/21/2022 CONSTRUCTION DOCUMENTS

OVERALL 2ND FLOOR PLAN

2021-1053 09/10/2021 Drawn / Checked AS NOTED Author Checker

ADD/ALTERNATES

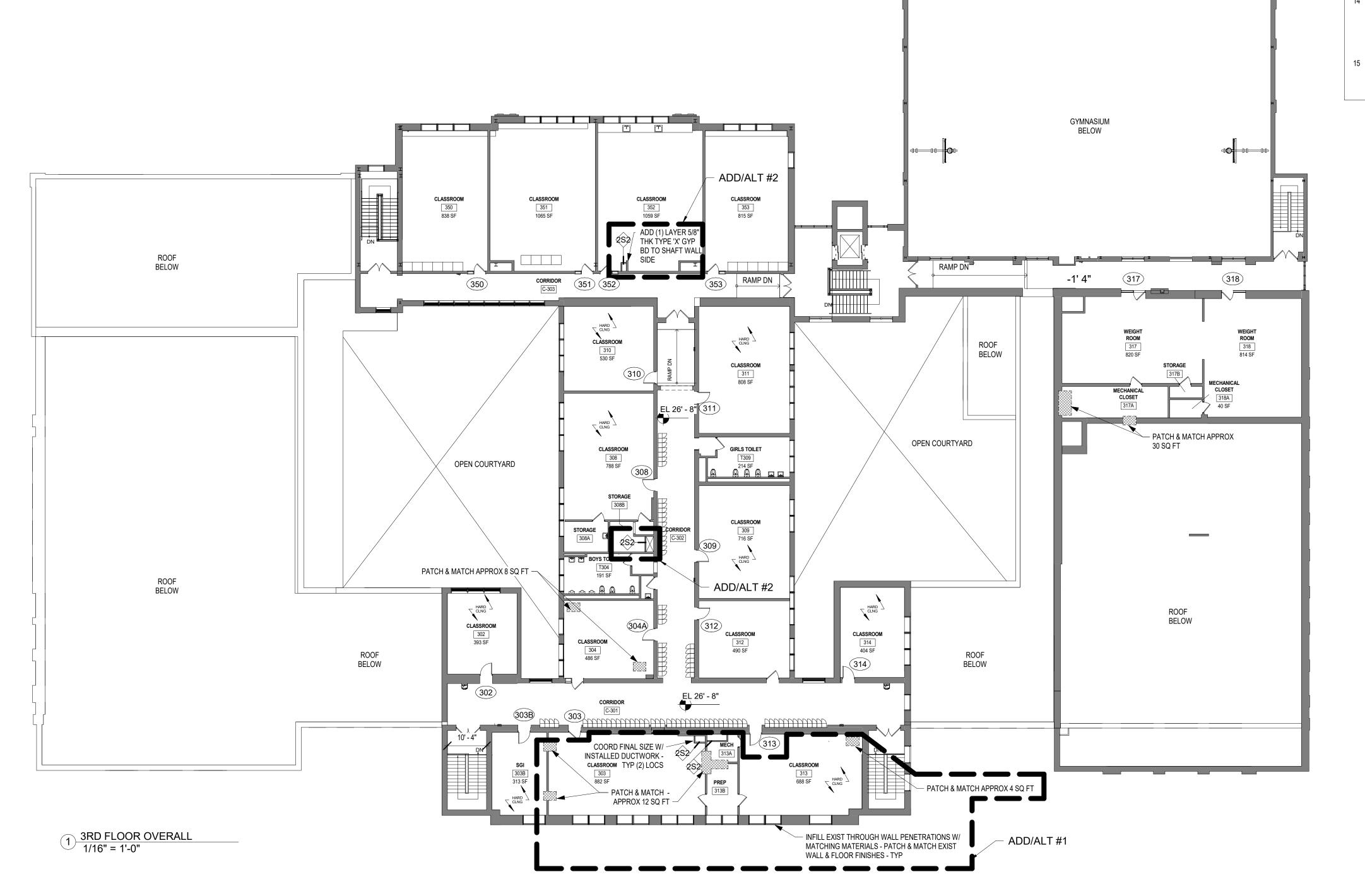
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INSTALLATION OF HVAC DOAS UNITS #,1 & 2, RELATED ACCU UNITS 1, 4 & 5 AND ALL RELATED INDOOR DUCTWORK, REGISTERS, CONTROLS, ETC. & ANY & ALL DEMOLITION & PATCHING - REMOVAL & REPLACEMENT OF EXIST ROOFTOP RAILING SYSTEM AS INDICATED ON A251 - COORD W/ ALL MEP DWGS

REMOVAL & REPLACEMENT OF EXIST GYMNASIUM HARDWOOD FLOORING SYSTEM, TEMPORARY REMOVAL, STORAGE & REISTALLATION OF EXIST WOOD BLEACHER SYSTEM - TEMPORARY REMOVAL, STORAGE & REINSTALLATION OF EXIST CEILING HUNG DIVIDER CURTAINS

ALL WORK RELATED TO CLEANING, REPOINTING & RESTORATION OF EXIST STONE LINTELS OF TUFSD - HS - EAST ENTRANCE AS SHOWN ON 1/A302 & RELATED PHOTOGRAPHS

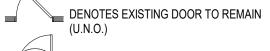
ALL WORK RELATED TO CLEANING, REPOINTING & RESTORATION OF EXIST STONE LINTELS OF TUFSD - HS - WEST ENTRANCE AS SHOWN ON 2/A302 & RELATED PHOTOGRAPHS



GENERAL NOTES

- DENOTES AREA OF NO MAJOR ARCHITECTURAL RENOVATION WORK, SPECIFIC WORK MAY BE SHOWN ELSEWHERE, REFER TO M.E.P. DWGS.
- 2 (101) DENOTES DOOR NUMBER SEE A902 FOR DOOR SCHEDULE. SEE SPECS. FOR HARDWARE SETS & INFO
- 3 RW DENOTES RESCUE WINDOW SEE A903
- 4 DENOTES EXISTING WALL TO REMAIN (MOST EXISTING WALLS ARE MASONRY)
- 5 === DENOTES 2hr RATED WALL

- DENOTES WALL TYPE & FIRE RATING, WHERE SHOWN (SEE A901)
- 7 C- DENOTES HOLLOW METAL FRAME w/ SIDELITE OR TRANSOM (SEE A903)
- 8 FINISH SCHEDULE & ABBREVIATION LIST SEE DWG. A501
- 9 ALL CORRIDOR WALLS ARE TO HAVE AT LEAST A 1hr FIRE RATING (EVEN IF NOT LABELED)
- 10 DIMENSIONS SHOWN FOR INTERIOR WALLS ARE: 'FACE OF STRUCTURE' OR 'FACE OF CMU'
- 11 FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME IS 4" (TYP) U.N.O. (SEE A & B ON A902)
- 12 MB8, TB4 DENOTES MARKERBOARD OR TACKBOARD OF SPECIFIED LENGTH (FT)
- 13 SB DENOTES "SMART BOARD" FURNISHED BY OWNER, INSTALLED BY G.C.



DENOTES NEW DOOR, FRAME, & HARDWARE, SEE NOTE 2 (ABOVE)

DENOTES APPROX AREA OF WALL/FLOOR/CEILING PATCH & MATCH -NOT ALL AREAS NOTED - COORD W/ ADD/ALTS #1 & #2

TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD EASTCHESTER, N. Y. 10709

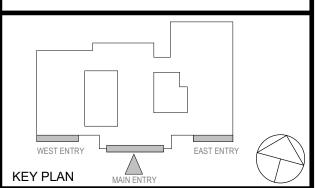


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03/31/2022 ISSUED FOR BID 3 02/14/2022 SED COMMENTS 2 01/21/2022 CONSTRUCTION DOCUMENTS

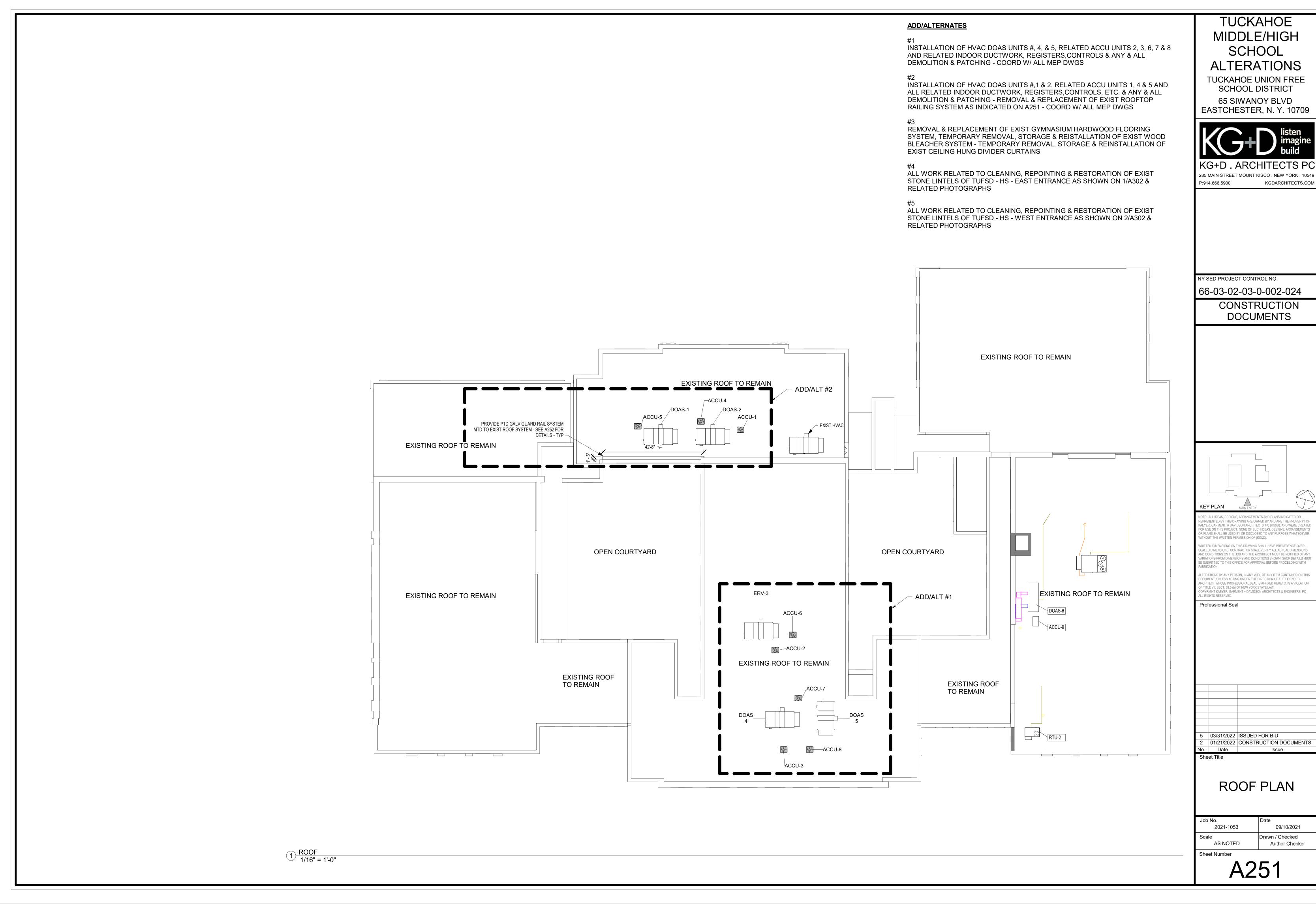
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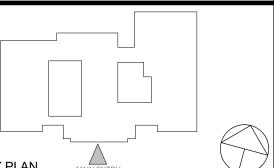
OVERALL 3RD FLOOR PLAN

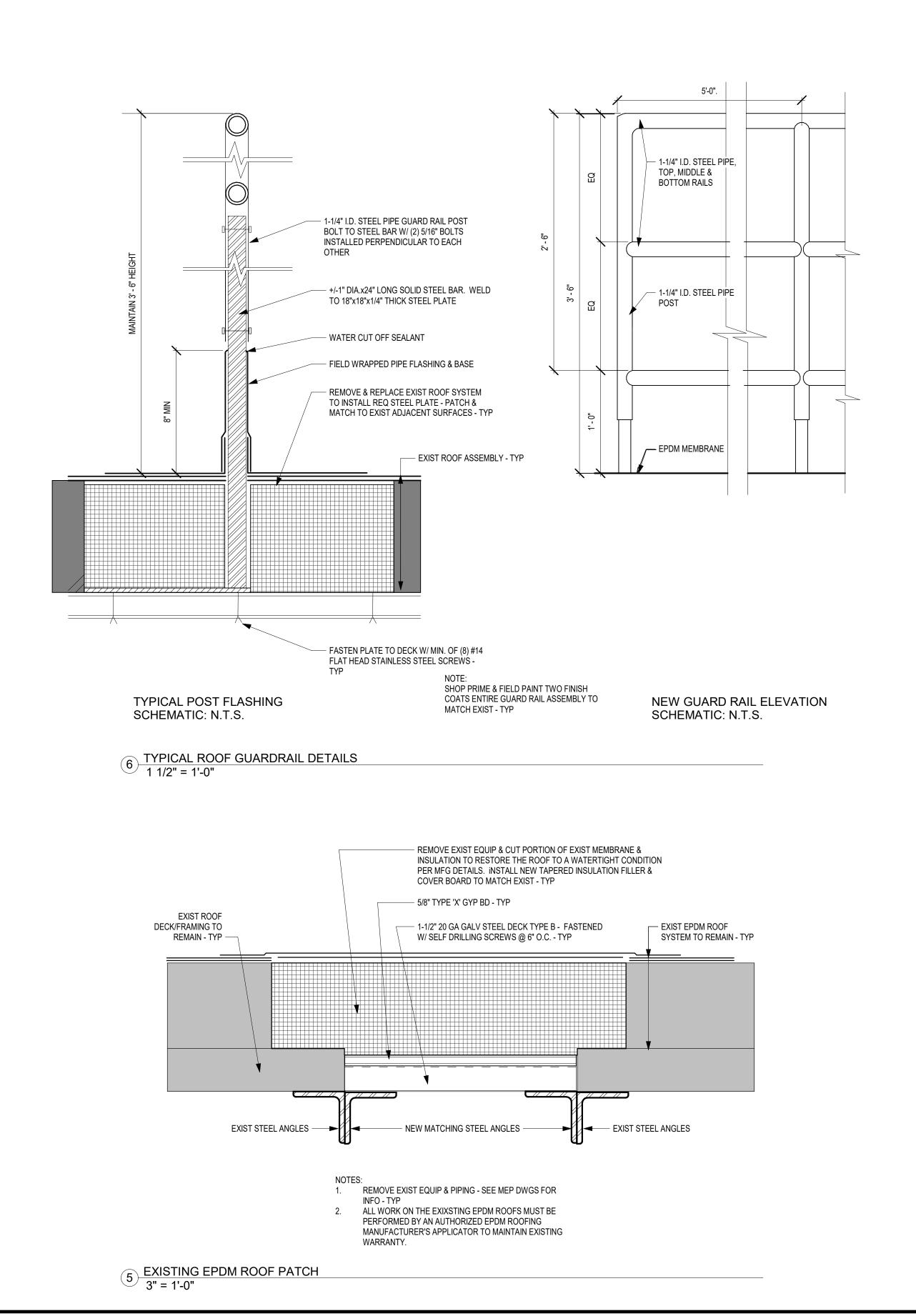
2021-1053 09/10/2021 Scale Drawn / Checked AS NOTED Author Checker Sheet Number

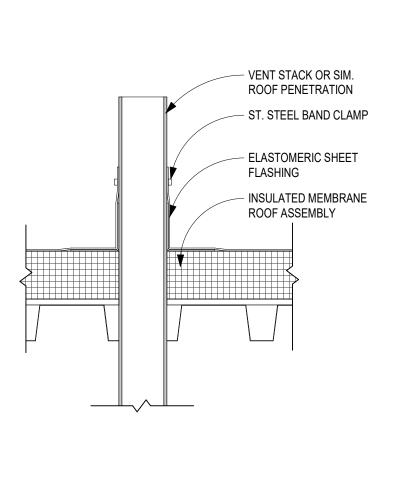
COORDINATE ALL THROUGH WALL, FLOOR & CEILING PENETRATIONS W/ ADD/ALT #1 & 2 AS SHOWN ON MEP **DRAWINGS - TYP**



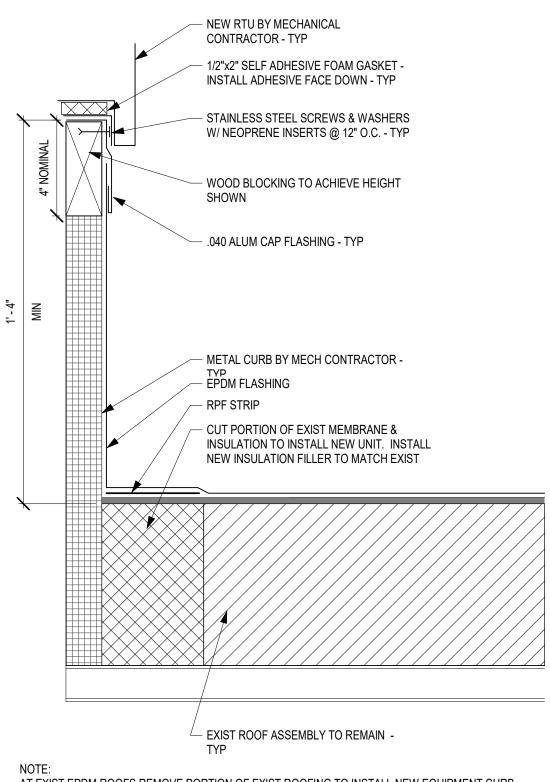






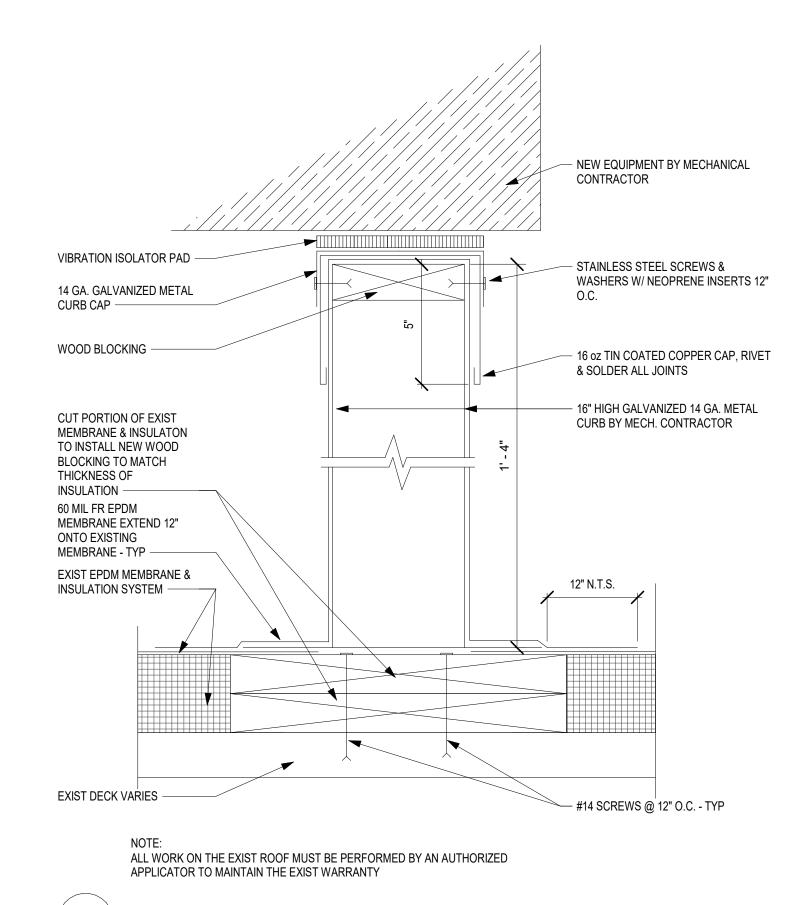


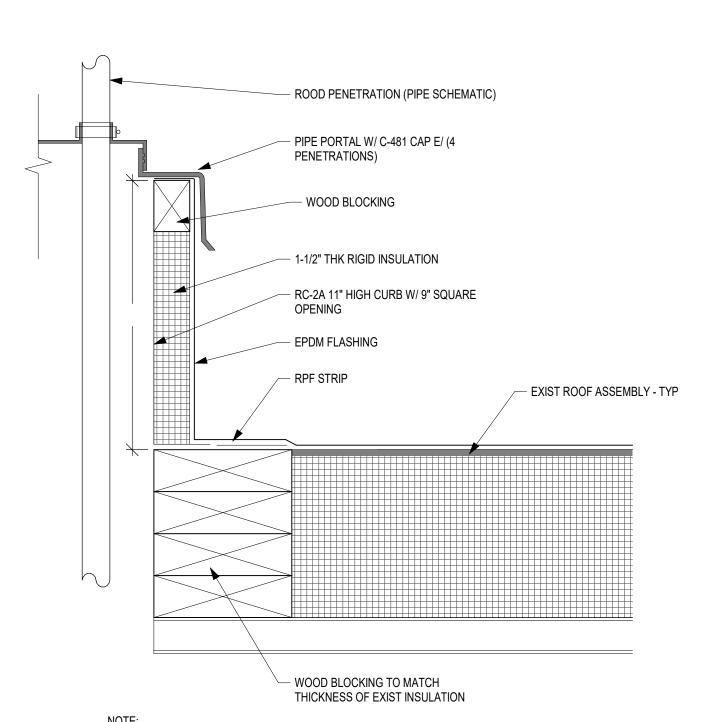
4 TYPICAL ROOF PENETRATON 1 1/2" = 1'-0"



AT EXIST EPDM ROOFS REMOVE PORTION OF EXIST ROOFING TO INSTALL NEW EQUIPMENT CURB. EXTEND NEW EPDM 12" ONTO EXIST EPDM. ALL WORK MUST BE PERFORMED BY AN AUTHORIZED APPLICATOR TO MAINTAIN THE EXIST WARRANTY.

3" = 1'-0"





AT EXIST EPDM ROOFS REMOVE PORTION OF EXIST ROOFING TO INSTALL NEW WOOD BLOCKING & CURB. EXTEND NEW EPDM 12" ONTO EXIST EPDM. ALL WORK MUST BE PERFORMED BY AN AUTHORIZED APPLICATOR TO MAINTAIN THE EXIST WARRANTY.

TYPICAL PIPE PORTAL CURB

2 TYPICAL RAIL CURB - EXISTING EPDM ROOF 3" = 1'-0" TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



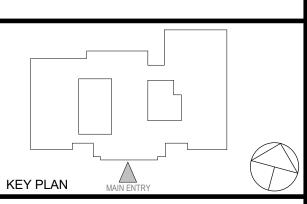
KG+D . ARCHITECTS PC
285 MAIN STREET MOUNT KISCO . NEW YORK . 10549

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NY SED PROJECT CONTROL NO. 66-03-02-03-0-002-024

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No. Date
Sheet Title

ROOF DETAILS

Job No.
2021-1053

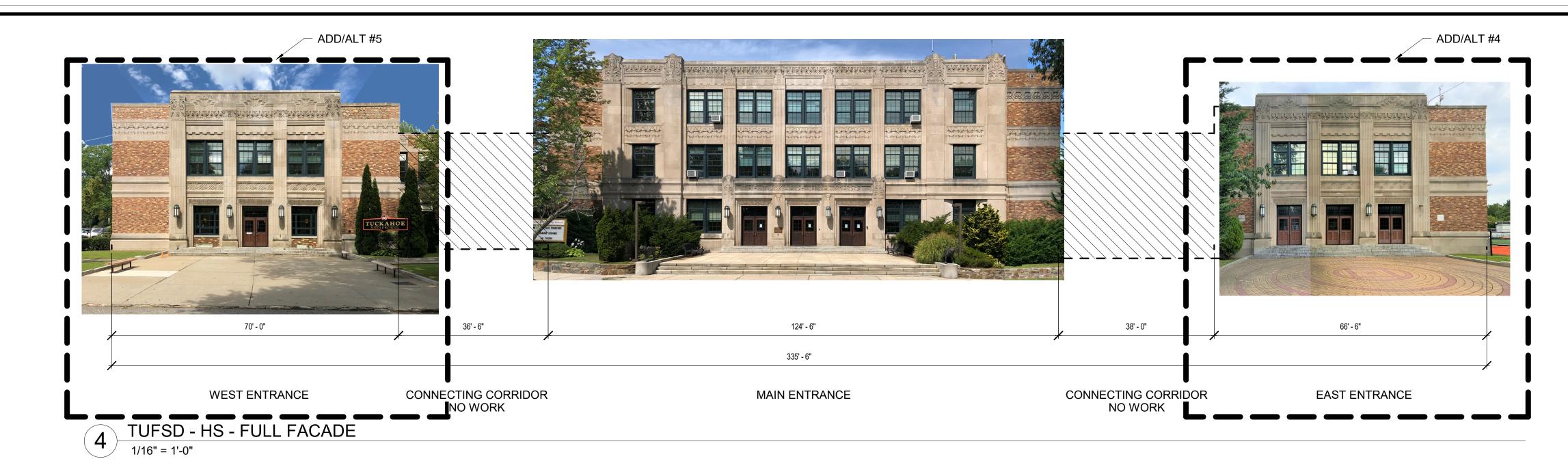
Scale
AS NOTED

Date
09/10/2021

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Author Checker

Sheet Number

A252



CAST STONE AT MAIN ENTRANCE ENTABLATURE



CLEAN EXIST CAST STONE ELEMENT, INCLUDING FRIEZE PANELS, BAS RELIEF CARVINGS, BANDING, SCHOOL NAME ELEMENT PANELS, & COLUMNS. CONTRACTOR SHALL ENSURE ALL JOINTS ARE PROPERLY SEALED SHOULD MORTAR OR SEALANT BE DISPLACED DURING **CLEANING - SEE SPECS FOR CLEANING** INSTRUCTIONS - TYP.

INSTALLATION OF HVAC DOAS UNITS #, 4, & 5, RELATED ACCU UNITS 2, 3, 6, 7 & 8 AND RELATED INDOOR DUCTWORK, REGISTERS, CONTROLS & ANY & ALL DEMOLITION & PATCHING - COORD W/ ALL MEP DWGS

ADD/ALTERNATES

INSTALLATION OF HVAC DOAS UNITS #,1 & 2, RELATED ACCU UNITS 1, 4 & 5 AND ALL RELATED INDOOR DUCTWORK, REGISTERS, CONTROLS, ETC. & ANY & ALL DEMOLITION & PATCHING - REMOVAL & REPLACEMENT OF EXIST ROOFTOP RAILING SYSTEM AS INDICATED ON A251 - COORD W/ ALL MEP DWGS

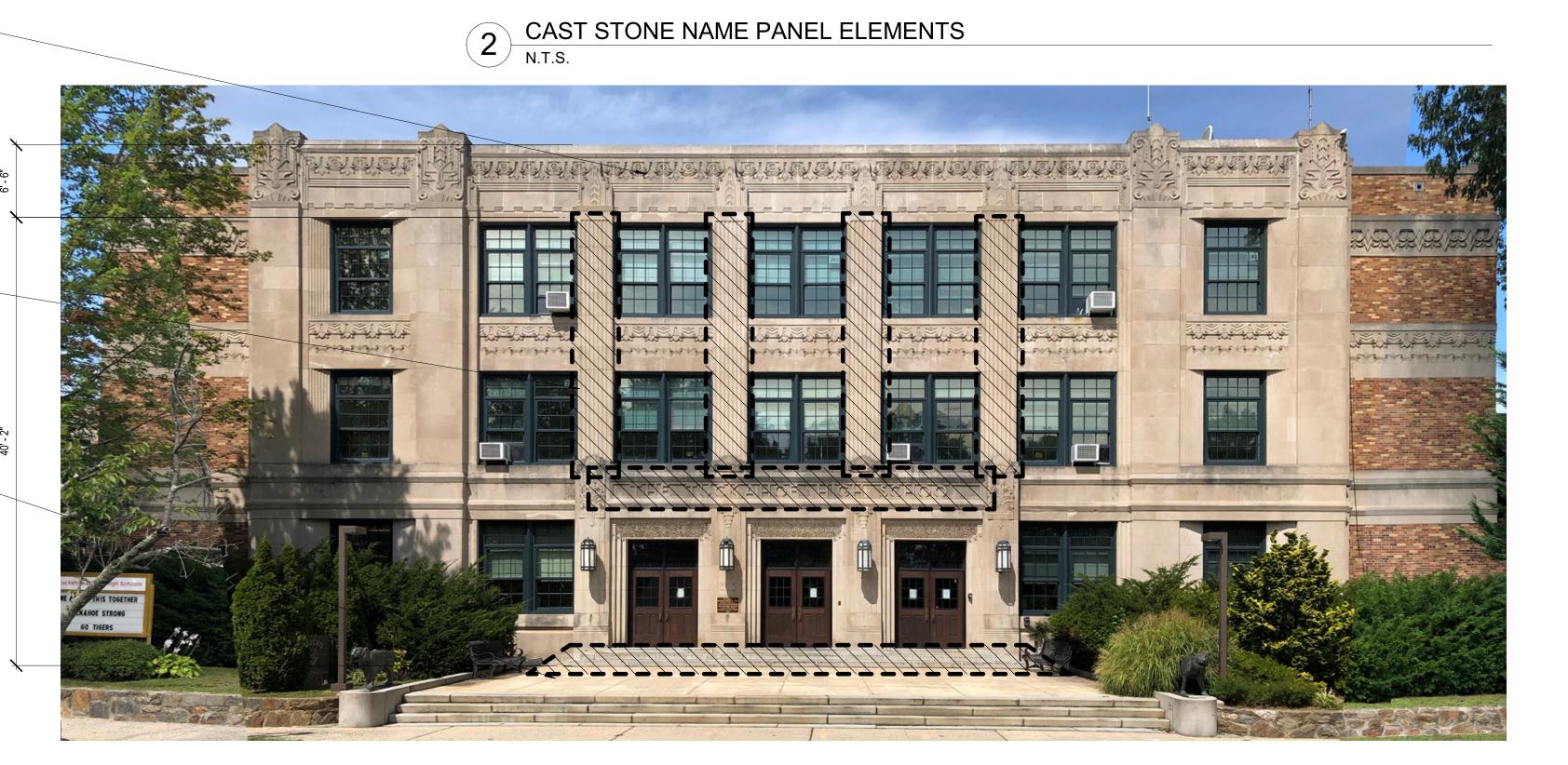
REMOVAL & REPLACEMENT OF EXIST GYMNASIUM HARDWOOD FLOORING SYSTEM, TEMPORARY REMOVAL, STORAGE & REISTALLATION OF EXIST WOOD BLEACHER SYSTEM - TEMPORARY REMOVAL, STORAGE & REINSTALLATION OF EXIST CEILING HUNG DIVIDER CURTAINS

ALL WORK RELATED TO CLEANING, REPOINTING & RESTORATION OF EXIST STONE LINTELS OF TUFSD - HS - EAST ENTRANCE AS SHOWN ON 1/A302 & RELATED PHOTOGRAPHS

ALL WORK RELATED TO CLEANING, REPOINTING & RESTORATION OF EXIST STONE LINTELS OF TUFSD - HS - WEST ENTRANCE AS SHOWN ON 2/A302 & RELATED PHOTOGRAPHS

REPOINT EXIST JOINTS AT CAST STONE FLUTED PILASTER ELEMENTS, APPROX. 35%. CONTRACTOR SHALL ENSURE THAT COPPER LIGHT FIXTURE ARE KEPT SAFE.

> WASH STONE STAIRS. RESEAL ALL HORIZONTAL AND VERTICAL JOINTS AT STAIRS - TYP



TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

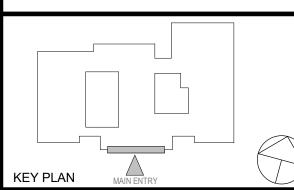
TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD



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LED DIMENSIONS. CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS
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MAIN ENTRANCE **ELEVATION**

2021-1053 09/10/2021 Drawn / Checked AS NOTED Author Checker

Sheet Number A301

TUFSD - HS - MAIN ENTRANCE 1/8" = 1'-0"

TYP CAST STONE LINTEL $^{/}$ N.T.S.

TYP CAST STONE AT ENTRANCE 8 N.T.S.

INSTALLATION OF HVAC DOAS UNITS #, 4, & 5, RELATED ACCU UNITS 2, 3, 6, 7 & 8

ADD/ALTERNATES

AND RELATED INDOOR DUCTWORK, REGISTERS, CONTROLS & ANY & ALL DEMOLITION & PATCHING - COORD W/ ALL MEP DWGS

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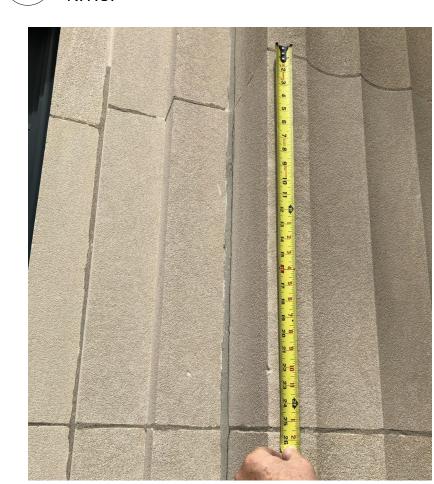
ALL WORK RELATED TO CLEANING, REPOINTING & RESTORATION OF EXIST STONE LINTELS OF TUFSD - HS - WEST ENTRANCE AS SHOWN ON 2/A302 & RELATED PHOTOGRAPHS



5 TYP CAST STONE AT ENTABLATURE



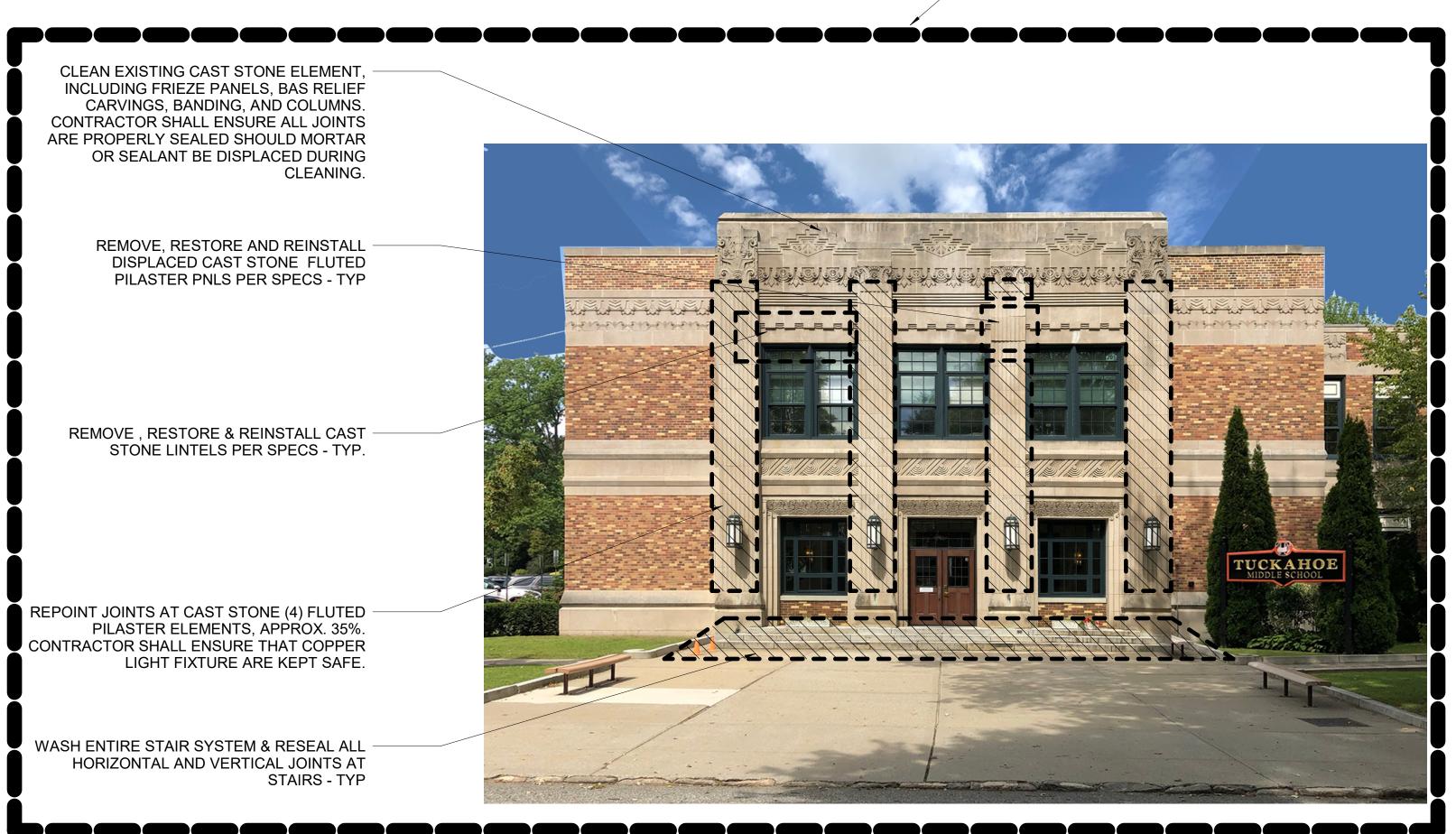
TYP FAILED STEEL LINTEL



TYP CONDITION OF JOINTS N.T.S.

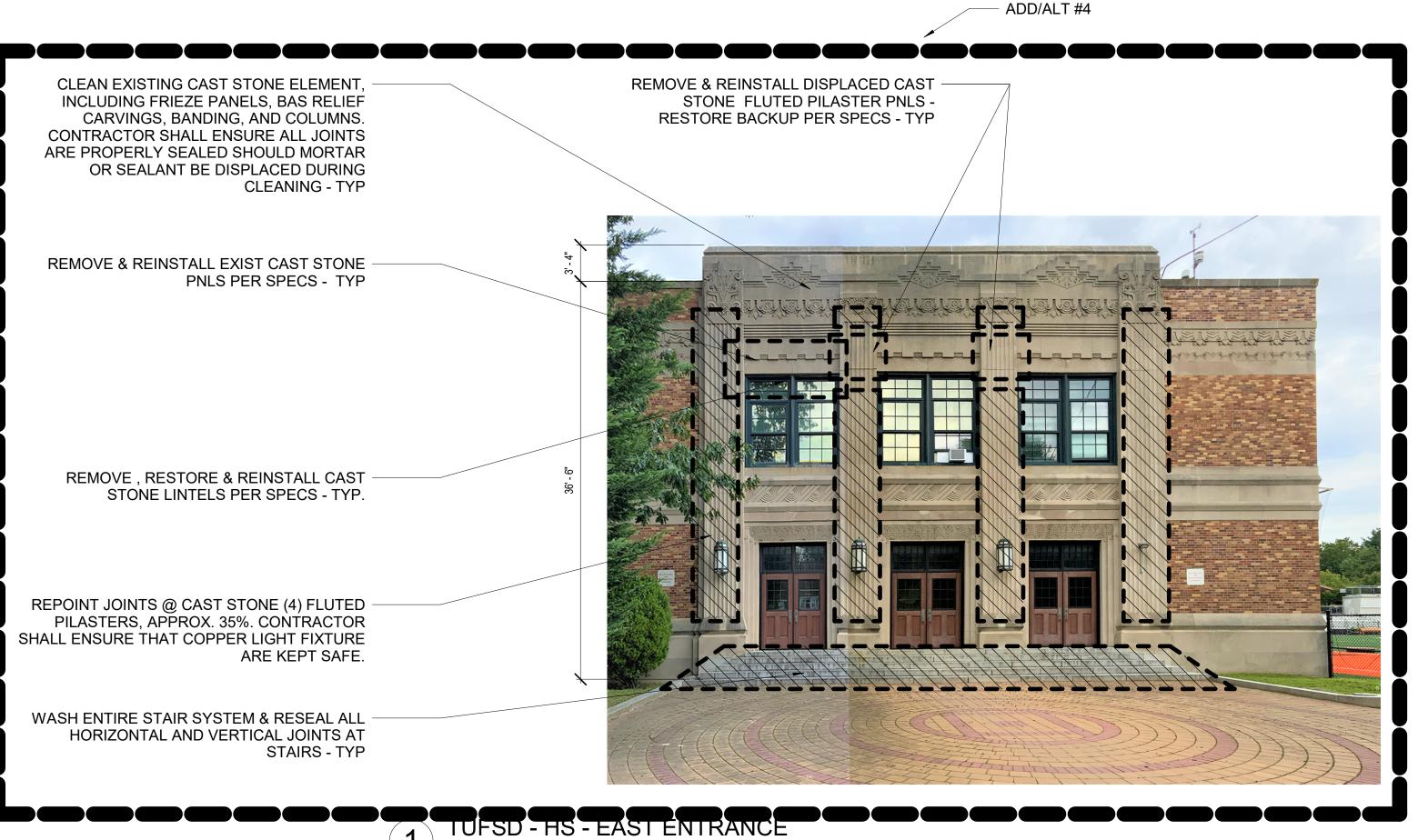


TYP STONE STAIRS AT ENTRANCE



TUFSD - HS - WEST ENTRANCE

ADD/ALT #5



TUCKAHOE MIDDLE/HIGH SCHOOL

ALTERATIONS TUCKAHOE UNION FREE SCHOOL DISTRICT

65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



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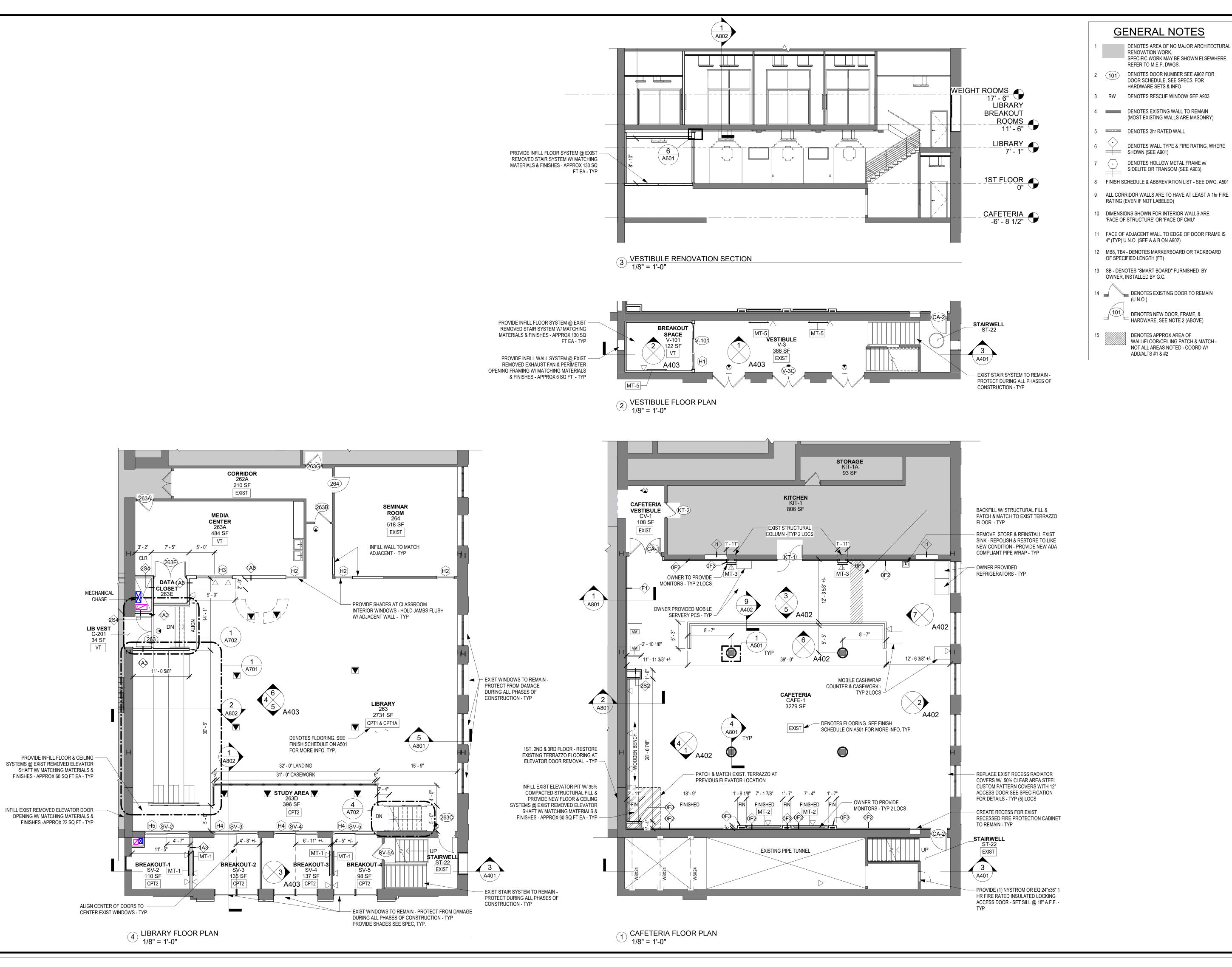
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EAST + WEST **ENTRANCE ELEVATIONS**

2021-1053 09/10/2021 Drawn / Checked AS NOTED Author Checker Sheet Number

A302



- SPECIFIC WORK MAY BE SHOWN ELSEWHERE,
- 2 (101) DENOTES DOOR NUMBER SEE A902 FOR DOOR SCHEDULE. SEE SPECS. FOR

- 9 ALL CORRIDOR WALLS ARE TO HAVE AT LEAST A 1hr FIRE
- 11 FACE OF ADJACENT WALL TO EDGE OF DOOR FRAME IS
- - WALL/FLOOR/CEILING PATCH & MATCH -NOT ALL AREAS NOTED - COORD W/

TUCKAHOE MIDDLE/HIGH SCHOOL

ALTERATIONS TUCKAHOE UNION FREE SCHOOL DISTRICT



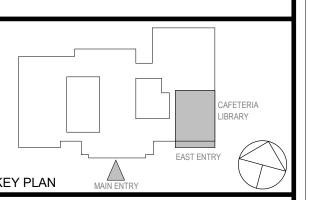
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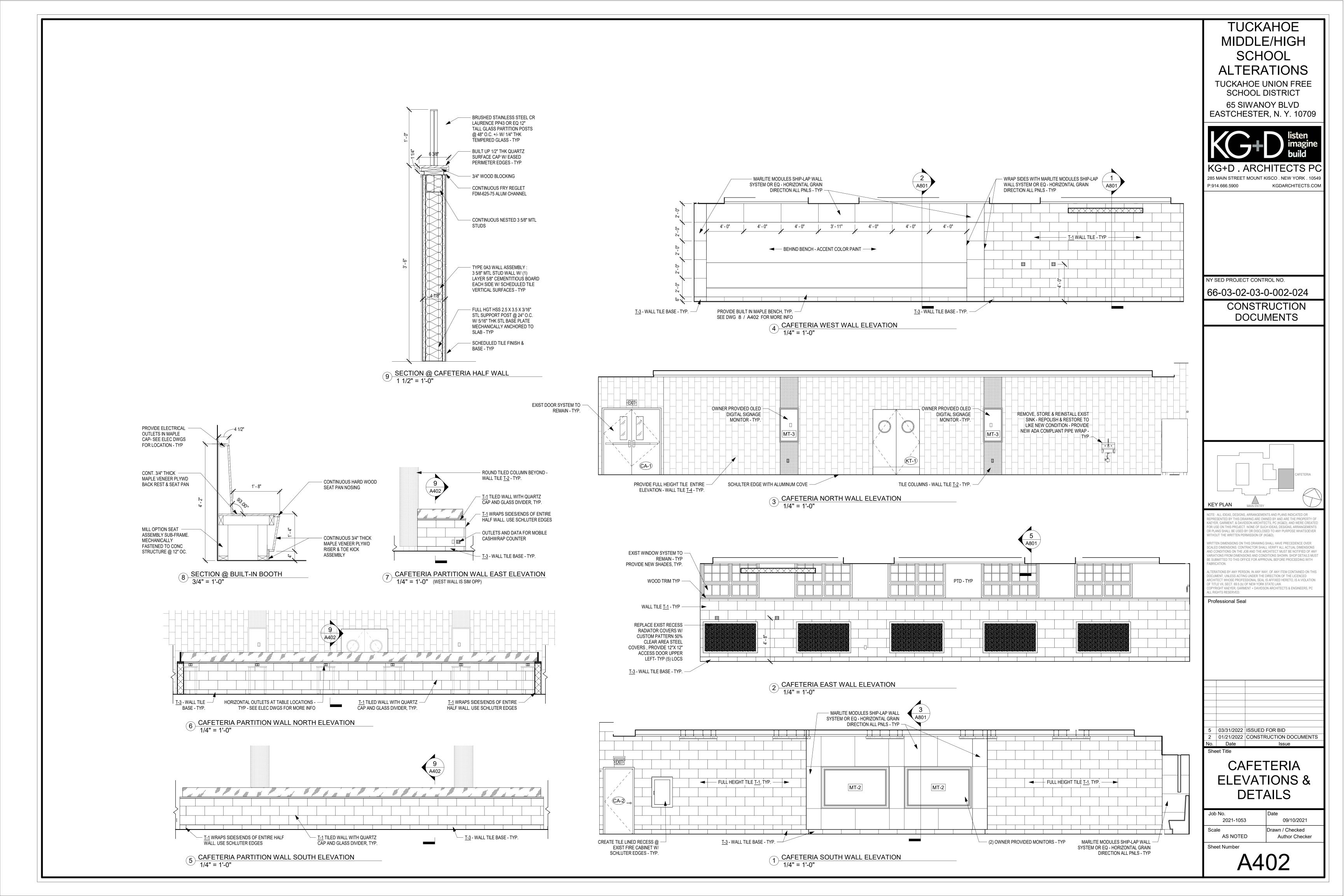
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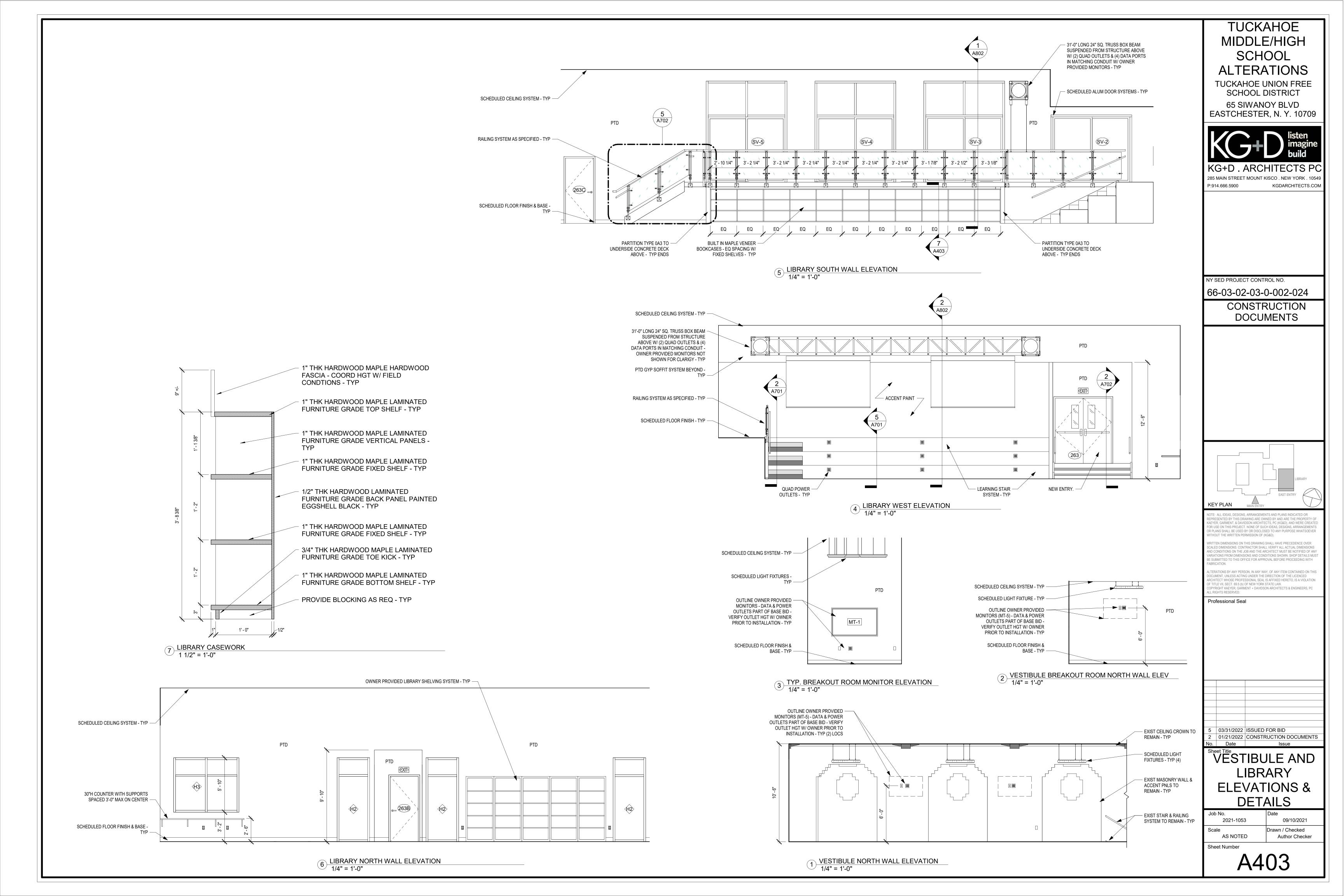
1 09/10/2021 DES DEV REVIEW Date

ENLARGED

FLOOR PLANS

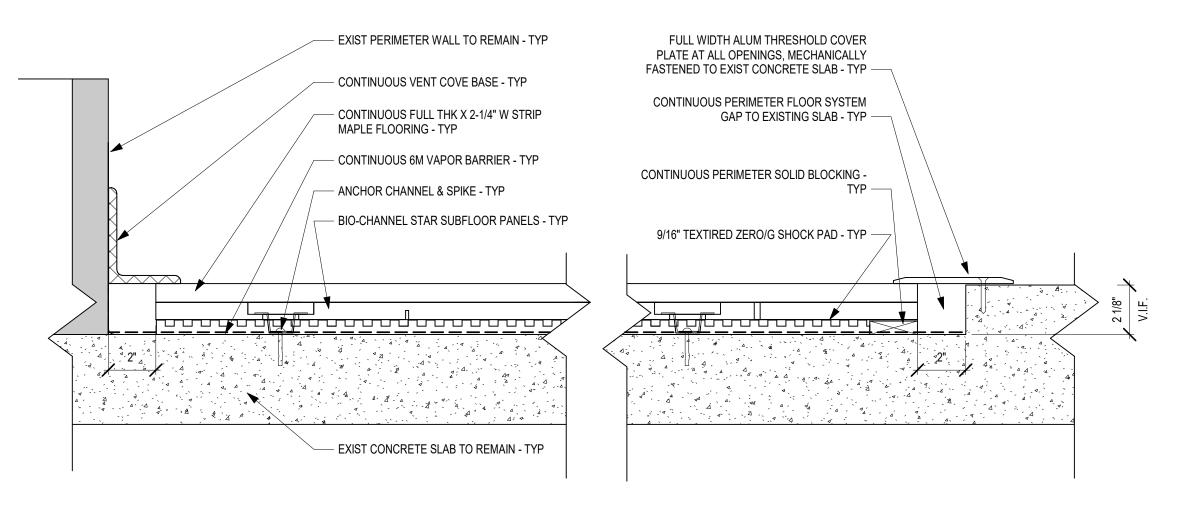
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GYM COURT LAYOUT LINES, FLOOR SLEEVES & EQUIPMENT

- 1. 1 MAIN BASKETBALL COURT, w/ 6" WIDE GLOSS BLACK PERIMETER LINES
- ALL OTHER MAIN COURT LINES SHALL BE 2" WIDE GLOSS BLACK, LANE SPACE MARKS SHALL BE GLOSS BLACK
- 2. 1 MAIN VOLLEYBALL COURT, (NOT SHOWN FOR CLARITY) ALL LINES TO BE 2" WIDE ORANGE
- 3. PROVIDE (1) PAIR VOLLEYBALL FLOOR PLATE & SLEEVE (SPORTS IMPORTS - ITEM KA25 OR EQ) PRIOR TO INSTALLATION, THE LOCATIONS MUST BE CONFIRMED BY THE ATHLETIC DIRECTOR
- 4. THE CONTRACTOR SHALL SUBMIT A (COLORED) LINE PAINTING DIAGRAM FOR ALL MAIN AND SECONDARY COURTS
- 5. PRIOR TO LINE PAINTING THE CONTRACTOR SHALL COORDINATE W/ EXISTING BASKETBALL HOOP/BACKBOARD LOCATIONS.



2 GYMNASIUM HARDWOOD FLOOR DETAIL 3" = 1'-0"

ADD/ALT #3 PROVIDE NEW FULL WIDTH & DEPTH ALUM STAIR TREADS - PROVIDE BITUMINOUS COATING ON BACK OF PROVIDE NEW FULL WIDTH & DEPTH — ALUM TREADS TO AVOID GALVANIC ACTION - TYP 6 TREADS ALUM STAIR TREADS - PROVIDE BLEACHER SYSTEM - GC TO VERIFY BITUMINOUS COATING ON BACK OF PROPER FUNCTIONING OF SYSTEM & ALUM TREADS TO AVOID GALVANIC REPLACE MISSING/DAMAGED BRICKS @ NOTIFY ARCHITECT OF ANY ACTION - TYP 7 TREADS BASE OF WALL W/ NEW MATCHING INCONSISTANCIES IN OPERATION BRICKS - TYP REPLACE MISSING/DAMAGED BRICKS @ REPOINT EXIST MORTAR JOINTS ON BASE OF WALL W/ NEW MATCHING BOTH SIDES OF PERIMETER STAIR BRICKS - TYP WALLS W/ COLOR MATCHING MORTAR -POWER WASH ENTIRE CONCRETE DECK -& CAULK PERIMETER WALL TO EXIST CONCRETE SLAB W/ COLOR MATCHING CAULKING - TYP POWER WASH ENTIRE CONCRETE DECK & CAULK PERIMETER WALL TO EXIST CONCRETE SLAB W/ COLOR MATCHING CAULKING - TYP REMOVE EXIST CAP STONE JOINT REMOVE EXIST CAP STONE JOINT CAULKING & REPLACE W/ COLOR CAULKING & REPLACE W/ COLOR MATCHING CAULKING - TYP MATCHING CAULKING - TYP

PROVIDE NEW HARDWOOD GYM FLOOR:

SYSTEM OVER EXIST CONCRETE SLAB -

 \equiv PROVIDE NEW INTERIOR ALUM FULL \equiv ─WIDTH & DEPTH DOOR SADDLES --TYP-----

ADD/ALTERNATES

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1/8" = 1'-0"

SOLID GLOSS BLACK END COURT BAND W/ ORANGE BOLD ORANGE TUCKAHOE

TEXT WITHIN 1" CLEAR BORDER - TYP

BOTH ENDS OF COURT

TUCKAHOE MIDDLE/HIGH **SCHOOL ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT

65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



285 MAIN STREET MOUNT KISCO . NEW YORK . 10549

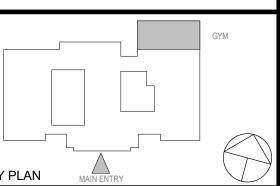
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EXIST EXTERIOR (8) GYM DOORS & ALUM

SADDLES TO REMAIN - TYP

EXIST CEILING HUNG BASKETBALL BACKBOARD SYSTEMS TO REMAIN - TYP

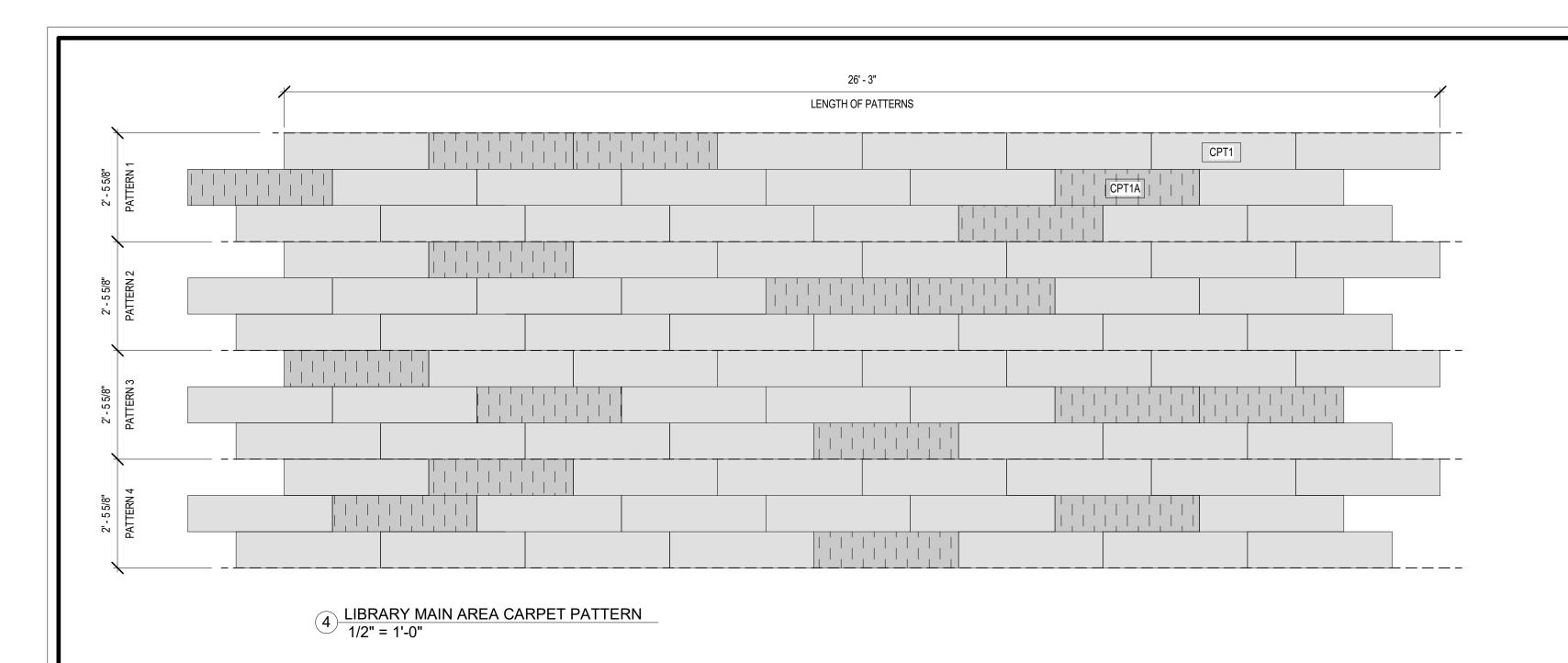
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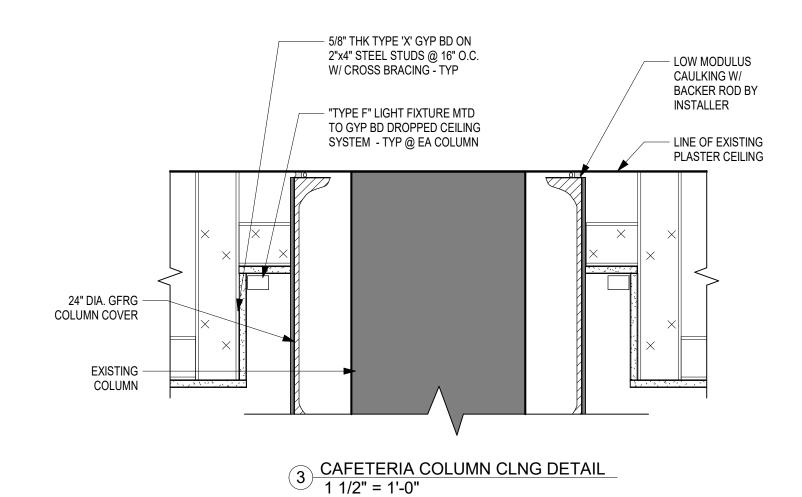
> **ENLARGED GYMNASIUM**

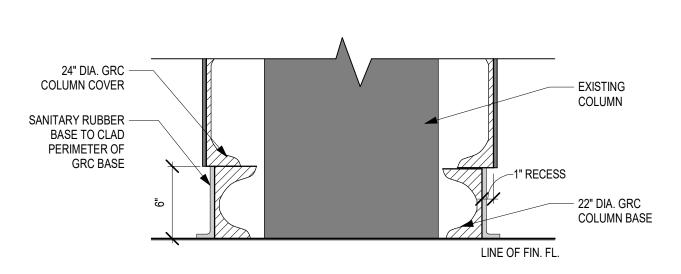
> > **PLAN**

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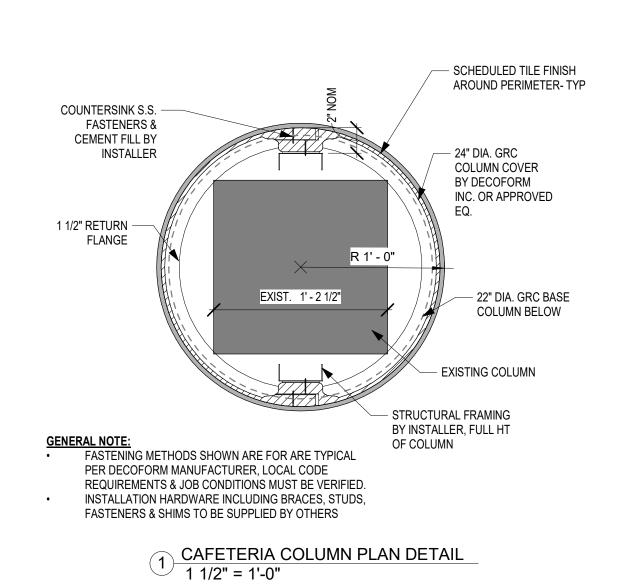
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2 CAFETERIA COLUMN BASE DETAIL 1/2" = 1'-0"



FFE Schedule							
EQUIPMENT	TYPE	QTY	Comments				
65inch MONITOR	MT-1	4					
90inch MONITOR	MT-2	4					
50inch VERTICAL MONITOR	MT-3	2					
RETRACTABLE MONITOR	MT-4	4					
55inch MONITOR	MT-5	3					
VENDING MACHINE	VM	4					
Grand total: 21							

ACCENT

FF ACT*

CPT*

EX

		FL	OOR	
ROOM#	ROOM NAME	FIN	BASE	COMMENTS
2ND FLOOR				
202	CLASSROOM	EVT1	EX-WD	PATCH & MATCH EXIST WOOD BASE AS NEEDED
202A	CLASSROOM	EVT1	EX-WD	PATCH & MATCH EXIST WOOD BASE AS NEEDED
203B	CLASSROOM	EVT1	EX-WD	PATCH & MATCH EXIST WOOD BASE AS NEEDED

					FI	NISH S	CHEDU	JLE - AF	KEAS O	H MAJ	JR WOF	≺K			
		FL	OOR	NORT	H WALL	EAS	T WALL	SOUT	H WALL	WES	T WALL				
													CEILING		
ROOM#	ROOM NAME	FIN	BASE	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	HT	Comments
AFETERIA															
AFE-1	CAFETERIA	EX	T-3/SCH	СВ	T-4 / T-2	EX	T-1	СВ	T-1 / WDP	GWB/CB	PTD/WD, T-1	GWB / ACT2, ACT3	PTD / FF	SEE RCP	HALF WALL IS GWB W/ T-1 WALL FINISH
/-1	CAFETERIA VESTIBULE	EX	EX	EX	PTD	EX	PTD	EX	PTD	EX	PTD	ACT5	FF	9' - 6" AFF	
T-1	KITCHEN	EX	EX	EX	EX	EX	EX	EXIST & GYP	PTD	EX	PTD	EX	-	-	PROTECT EXISTING FINISHES DURING ALL PHASES OF CONSTRUCTION
Г-22	STAIRWELL	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	-	-	PROTECT EXISTING FINISHES DURING ALL PHASES OF CONSTRUCTION
ST FLOOR															
-3	VESTIBULE	EX	EX	EX	EX	EX	EX	EX	EX	GWB / GL	PTD / FF	EX	PTD	-	
101	BREAKOUT SPACE	VT	RB	GWB	PTD	GWB / GL	PTD / FF	GWB	PTD	GWB	PTD	GWB	PTD	8' - 10" AFF	
BRARY 62A	CORRIDOR	EX	EX	EX	EX	EX	EX	EX	EX	EX	EX	ACT5	FF	10' - 0" AFF	PROTECT EXISTING FINISHES DURING ALL PHASES OF CONSTRUCTION
3	LIBRARY	CPT1/C[T1A	RB	EX, GWB	PTD	EX	PTD	EX, GWB	PTD	EX, GWB	ACCENT, PTD	GWB / ACT4, ACT5	PTD / FF	SEE RCP	ALL CARPET STAIRS TO HAVE RUBBER NOSIN
3A	MEDIA CENTER	VT	RB	EXIST	PTD	EX	PTD	GWB / GL	PTD / FF	EX	PTD	ACT5	FF	10' - 0" AFF	
	DATA CLOSET	VT	RB	GWB	PTD	GWB	PTD	GWB	PTD	GWB	PTD	ACT5	FF	9' - 0" AFF	
64	SEMINAR ROOM	EX	EX / WD	EX	EX	EX	EX	EX / GL	PTD / FF	EX	PTD	EX	-	-	PROTECT EXISTING FINISHES DURING ALL PHASES OF CONSTRUCTION
-201	LIB VEST	VT	RB	EX, GWB	PTD	GWB	PTD	EX, GWB	PTD	-	-	GWB	PTD	8' - 0" AFF	
IBRARY BREAK	COUT ROOMS														
	STUDY AREA	CPT2	RB	-	-	-	-	EX / GL	PTD / FF	EX	ACCENT	GWB / ACT4, ACT5	PTD / FF	SEE RCP	
	BREAKOUT-1	CPT2	RB	EX, GWB / GL		GWB	PTD	EX	ACCENT	EX	PTD	ACT5	FF	9' - 6" AFF	
/-3	BREAKOUT-2	CPT2	RB	EX / GL	PTD / FF	EX	PTD	EX	ACCENT	GWB	PTD	ACT5	FF	13' - 7" AFF	
	BREAKOUT-3	CPT2	RB	EX / GL	PTD / FF	EX	PTD	EX	ACCENT	EX	PTD	ACT5	FF	13' - 7" AFF	
SV-5	BREAKOUT-4	CPT2	RB	EX / GL	PTD / FF	EX	PTD	EX	ACCENT	EX	PTD	ACT5	FF	13' - 7" AFF	

ACOUSTICAL CEILING TILE SHOULD COMPLY WITH SED REQUIREMENTS AND SHALL BE NON-ABSORBENT, WHICH WILL
FACILITATE CLEANING. FOOD STORAGE, PREPARATION, AND SERVING AREAS, TOILET ROOMS, SHOWER, AND LOCKER
ROOMS, AND SIMILAR AREAS SHALL HAVE APPROPRIATE NON -ABSORBENT, IMPERVIOUS FLOOR, CEILING, AND WALL
SURFACES WHICH WILL FACILITATE CLEANING

FINISH SCHEDULE - CEILING RENOVATIONS

HT

COMMENTS

SEE A100s & MEP DWGS FOR EXTENT OF WORK - PATCH & MATCH

HARD CLNG - REMOVE & REINSTALL EXIST ACT FOR MEP WORK

SEE A100s & MEP DWGS FOR EXTENT OF WORK - REMOVE & REINSTALL EXIST

SEE A100s & MEP DWGS FOR EXTENT OF WORK - REMOVE & REINSTALL EXIST

SEE A100s & MEP DWGS FOR EXTENT OF WORK - PATCH & MATCH HARD CLNG

SEE A100s & MEP DWGS FOR EXTENT OF WORK - PATCH & MATCH HARD CLNG

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SEE A100s & MEP DWGS FOR EXTENT OF WORK - PATCH & MATCH HARD CLNG

SEE A100s & MEP DWGS FOR EXTENT OF WORK - REMOVE & REINSTALL EXIS

SEE A100s & MEP DWGS FOR EXTENT OF WORK - REMOVE & REINSTALL EXIST

SEE A100s & MEP DWGS FOR EXTENT OF WORK - PROTECT EXIST CLNG

EX / PTD EX / 7' - 8" SEE A100s & MEP DWGS FOR EXTENT OF WORK - PATCH & MATCH 7' - 8" SOFFI

- REMOVE & REINSTALL EXIST ACT FOR MEP WORK

- REMOVE & REINSTALL EXIST ACT FOR MEP WORK

REMOVE & REINSTALL EXIST ACT FOR MEP WORK

- REMOVE & REINSTALL EXIST ACT FOR MEP WORK

- REMOVE & REINSTALL EXIST ACT FOR MEP WORK

- REMOVE & REINSTALL EXIST ACT FOR MEP WORK

- REMOVE & REINSTALL EXIST ACT FOR MEP WORK

THROUGH ALL PHASES OF CONSTRUCTION

ACT FOR MEP WORK

CEILING

PTD / EX

EX-H / EX-ACT PTD / EX EX

EX-H / EX-ACT PTD / EX

EX-H / EX-ACT PTD / EX EX-H / EX-ACT PTD / EX

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MIDDLE SCHOOL OFFICE EX-H / EX-H

ROOM # | ROOM NAME

CLASSROOM

CLASSROOM

CLASSROOM

CLASSROOM CORRIDOR

CORRIDOR

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1ST FLOOR

2ND FLOOR

3RD FLOOR

ACCENT PAINT COLOR ABOVE FINISH FLOOR	EX-ACT	EXISTING ACOUSTIC CEILING TILE	GWB MEP	GYPSUM WALL BOARD MECHANICAL, ELECTRICAL	RB RCP	RUBBER BASE REFLECTED CEILING PLAN
ACOUSTIC CEILING TILE	EX-H	EXISTING HARD CEILING		AND PLUMBING	T*	TILE
CARPET	EVT*	EXISTING VINYL TILE	PTD	PAINT / PAINTED	VT	(LUXURY) VINYL TILE
EXISTING MATERIAL	FF	FACTORY FINISH	SCH	SCHLUTER ALUMINUM	WD	WOOD
	GL	GLASS / WINDOW WALL		COVE BASE	WDP	WOOD PANEL

NOTE:
- * NUMBER INDICATES STYLE - REFER TO SPEC FOR MORE

TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

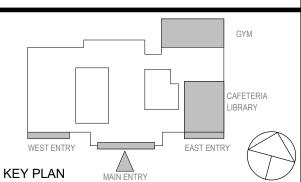
TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 P:914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO. 66-03-02-03-0-002-024

> CONSTRUCTION DOCUMENTS



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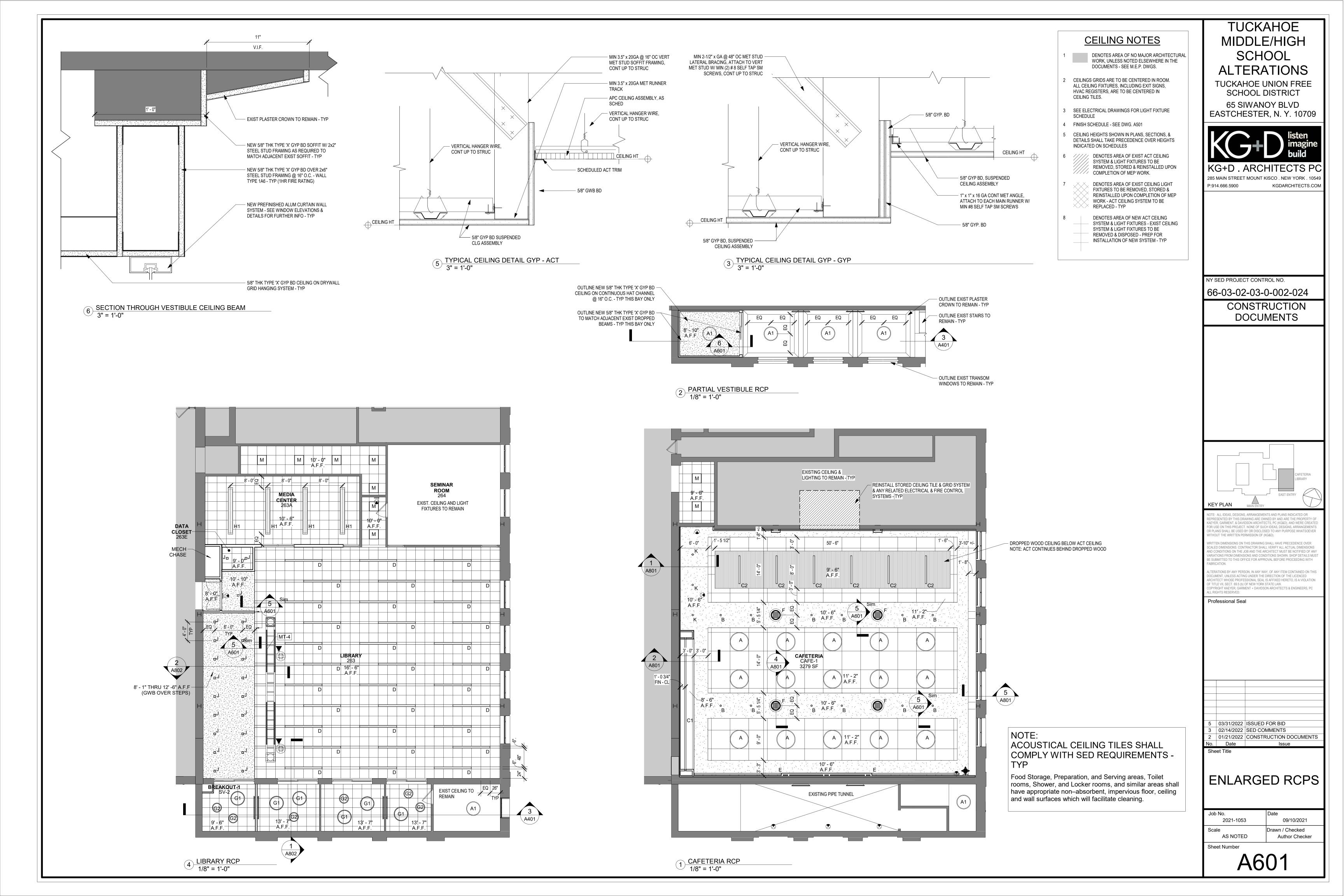
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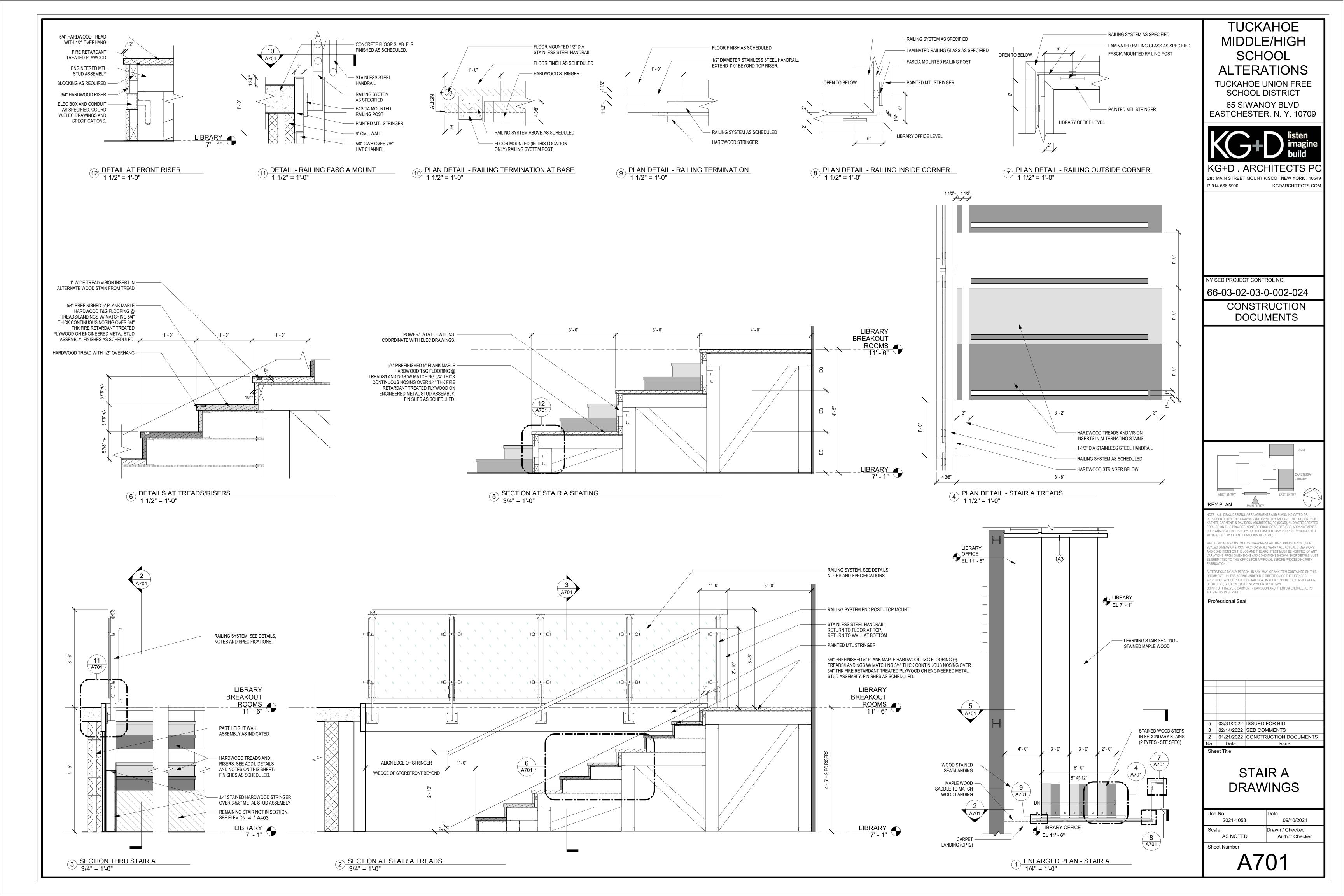
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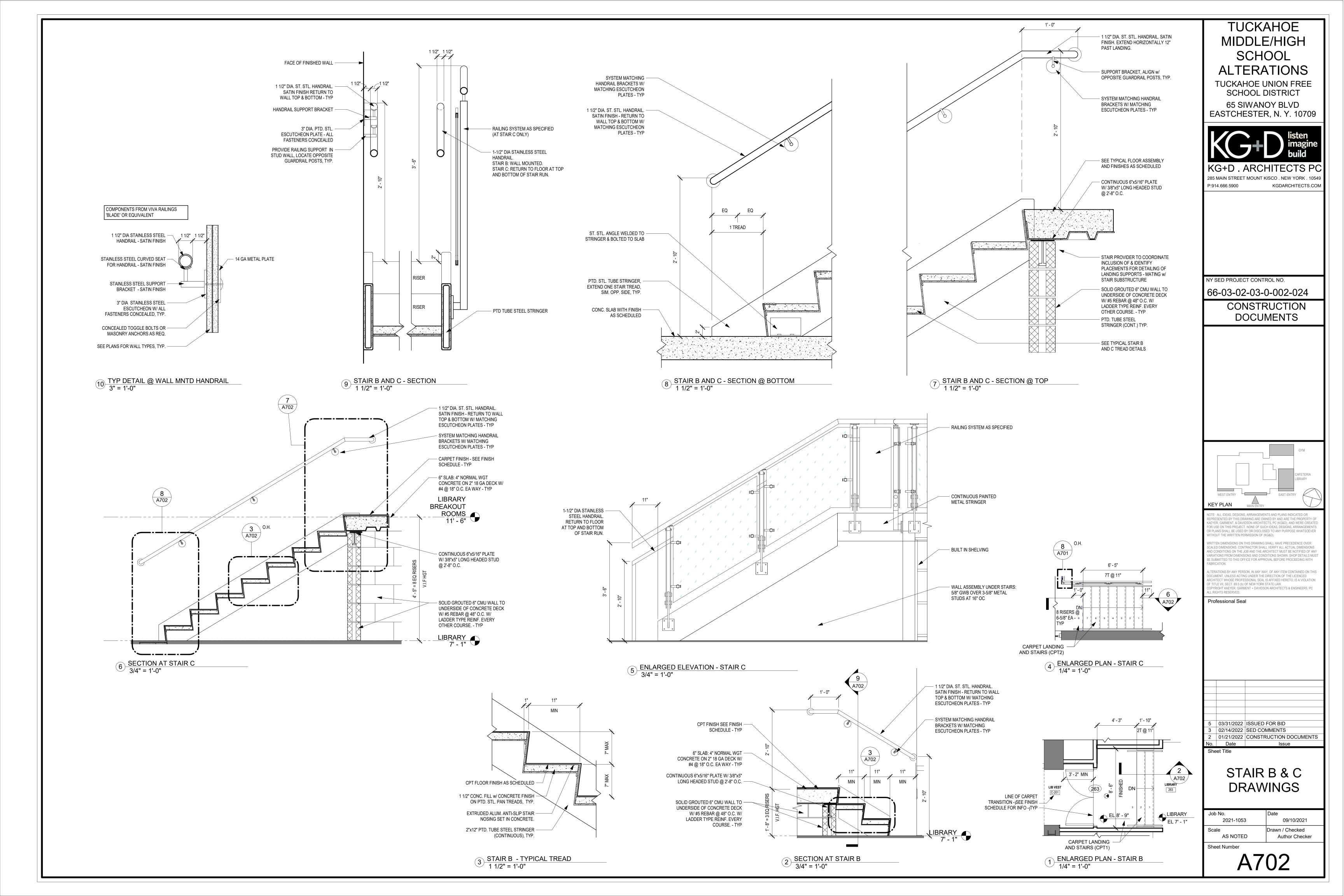
SCHEDULES AND MISC. DETAILS

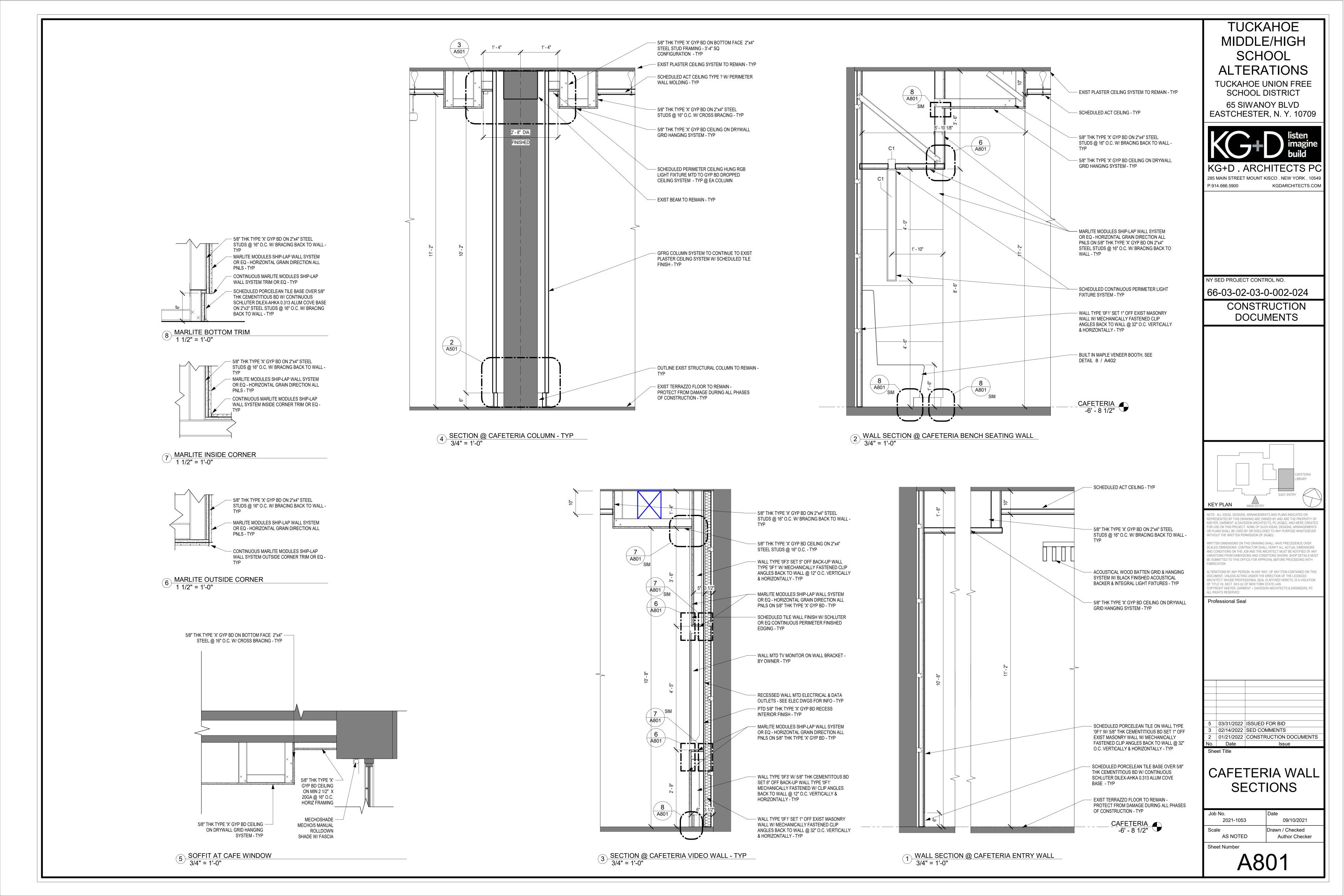
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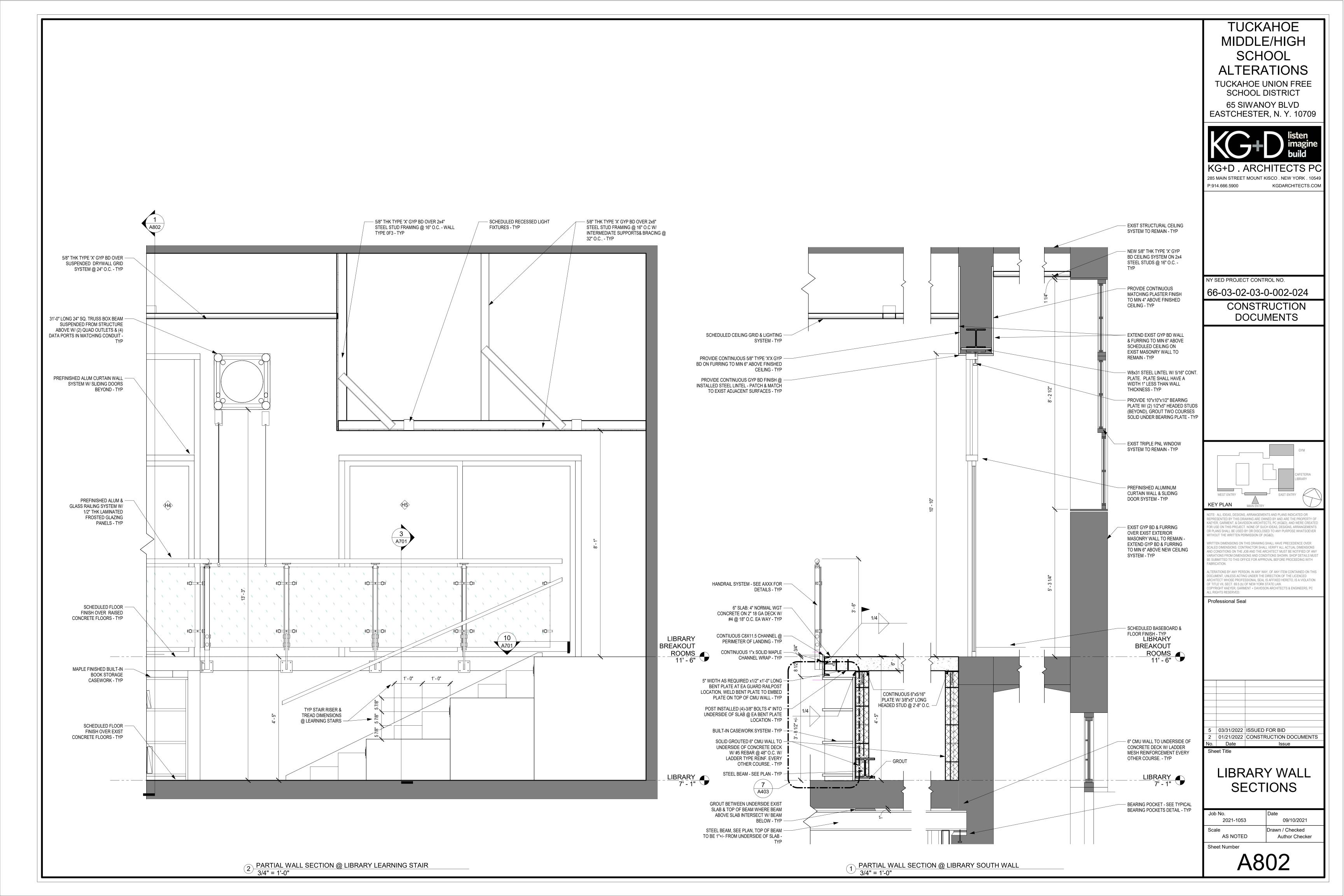
INFORMATION ON FINISHES - CEILING HEIGHTS SHOWN IN CEILING PLANS, SECTIONS & DETAILS SHALL TAKE PRECEDENCE OVER HEIGHTS INDICATED ON SCHEDULE.

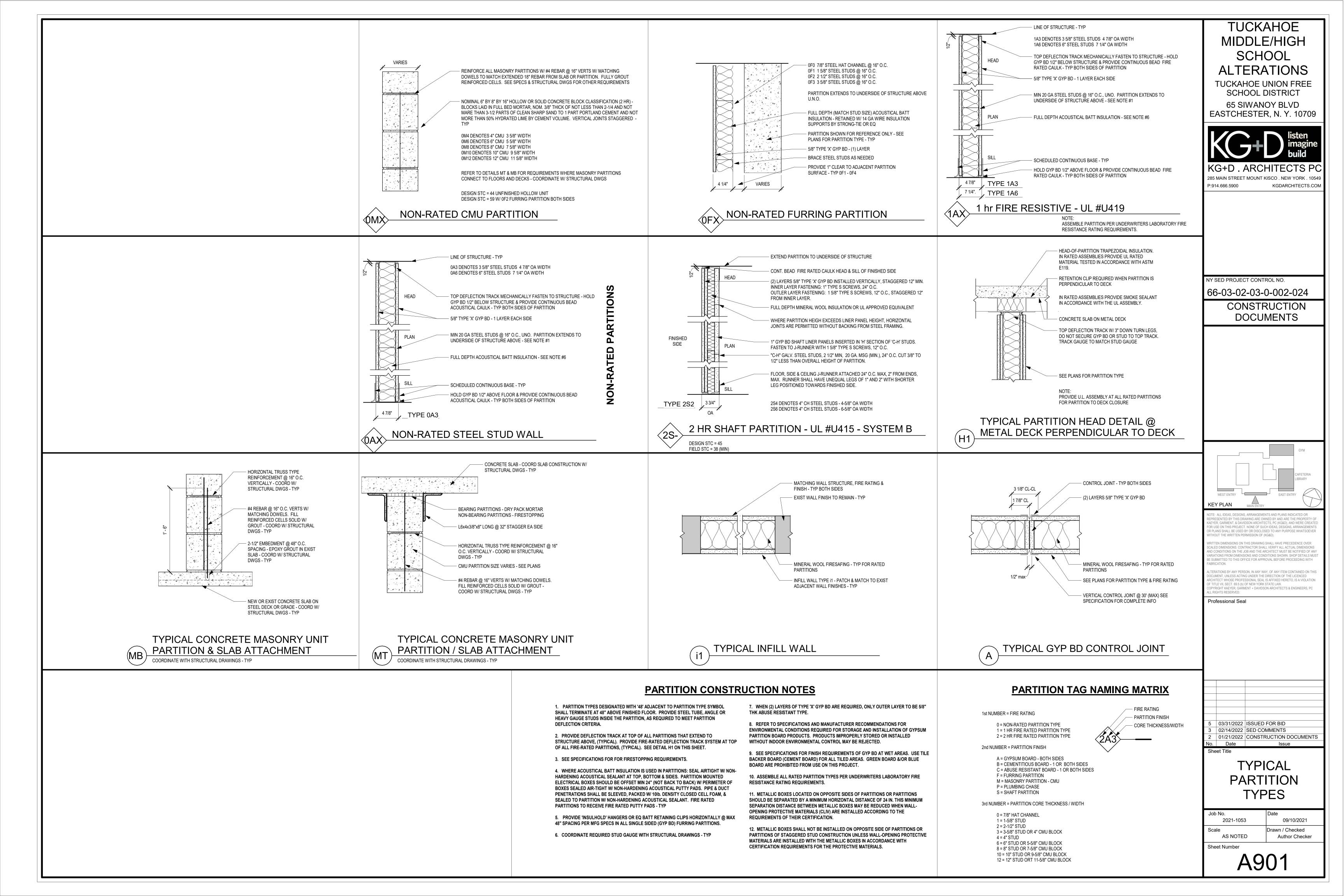


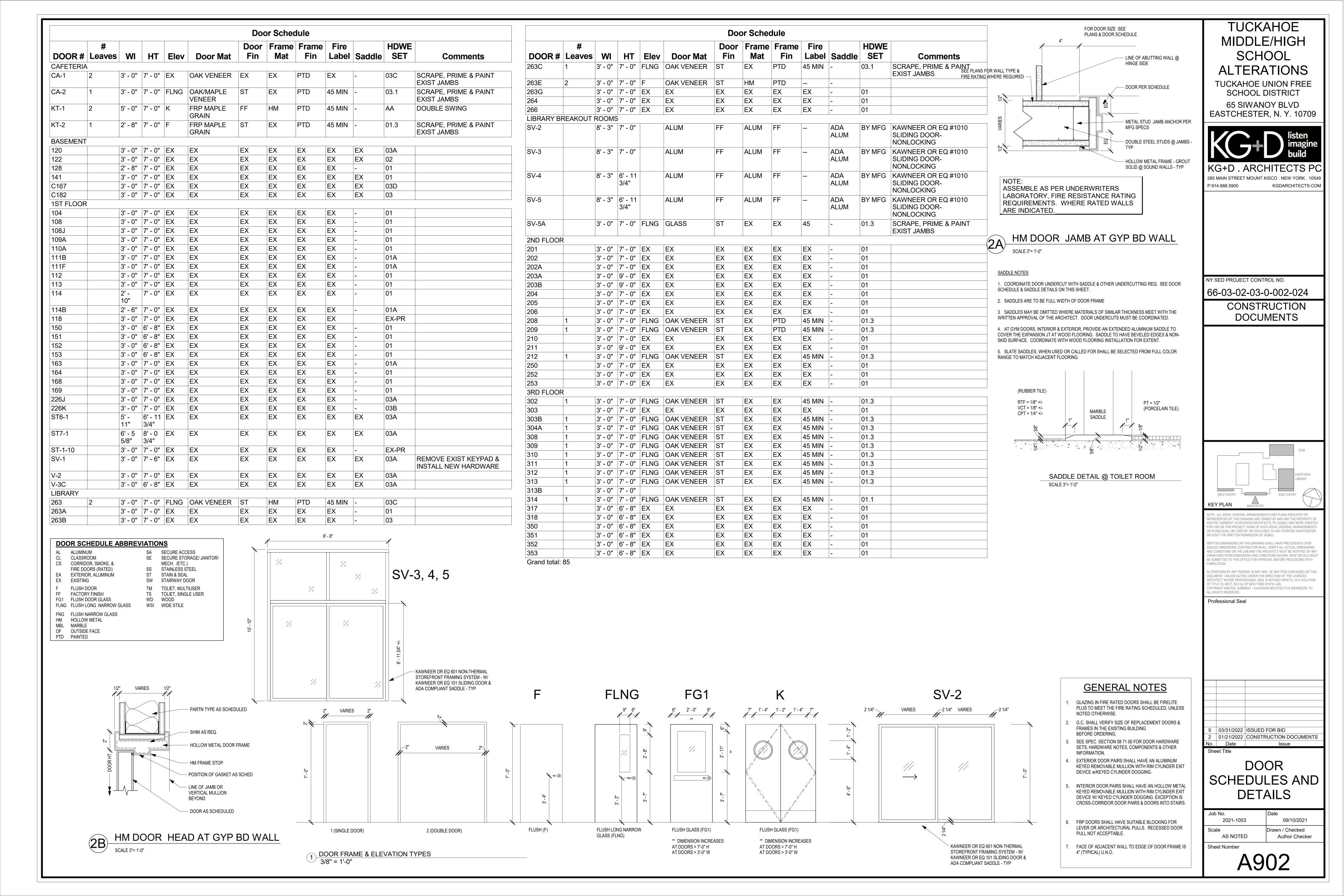


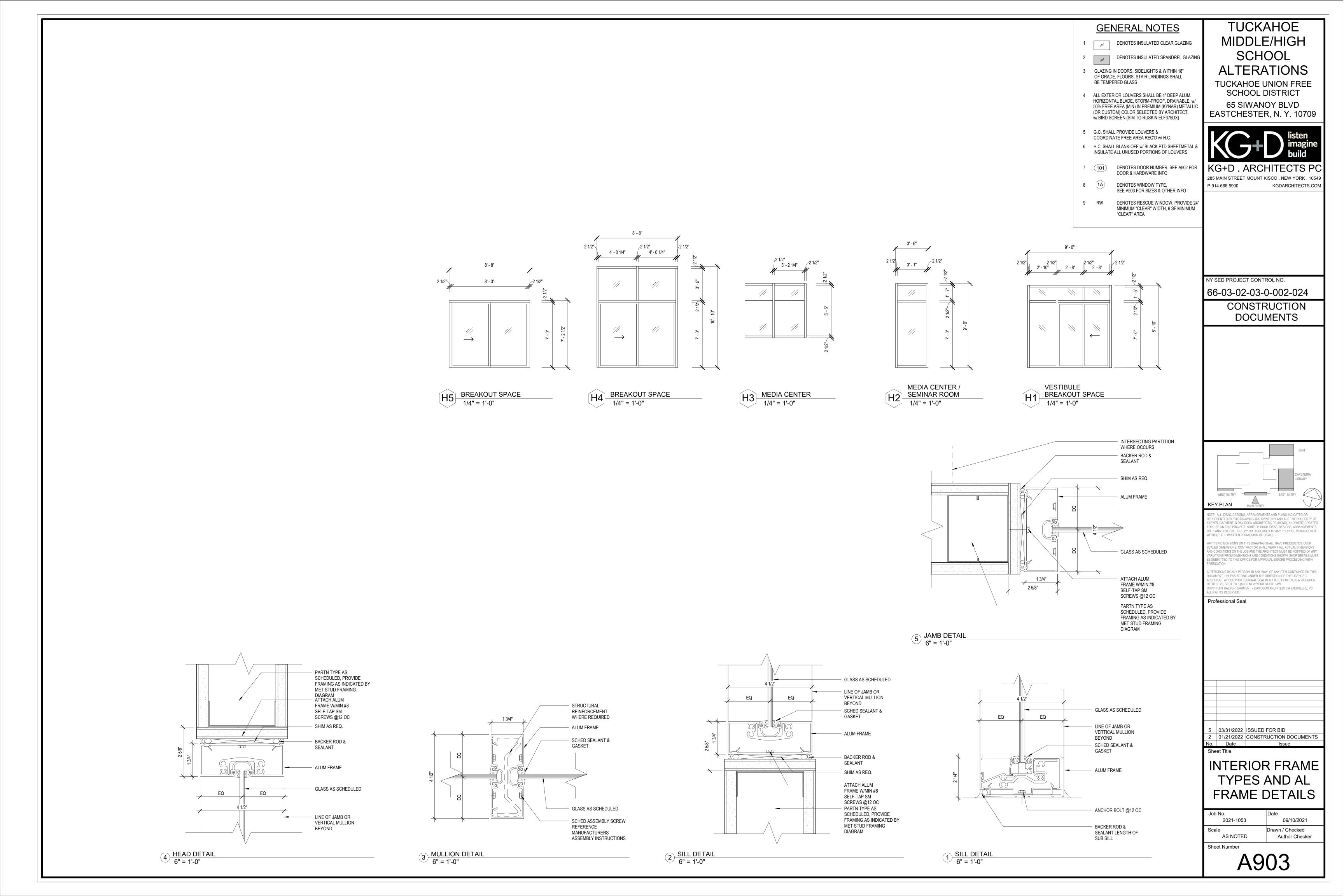












SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
				-	SMOKE DETECTOR
-	ACCU-	AIR COOLED CONDENSING UNIT	⑤		AIR INTO REGISTER
-	AD	ACCESS DOOR		-	
-	AFF	ABOVE FINISHED FLOOR	₩ -	-	POINT OF CONNECTION DISCONNECTION
-	AHC	ABOVE HUNG CEILING	-	TR	TOP REGISTER SUPPLY
-	AP	ACCESS PANEL	√-	TR	TOP REGISTER RETURN
-	BHP	BRAKE HORSEPOWER		SR	SUPPLY REGISTER
-	BTU	BRITISH THERMAL UNIT		RR/RG	RETURN REGISTER/GRILLE
-	CFM	CUBIC FEET PER MINUTE		-	SUPPLY DUCT UP
-	DB	DRY BULB TEMPERATURE		-	SUPPLY DUCT DOWN
-	DIA. OR Ø	DIAMETER		-	RETURN DUCT UP
-	DOAS	DEDICATED OUTDOOR AIR SYSTEM		-	RETURN DUCT DOWN
-	DX	DIRECT EXPANSION	1 1 2 3	-	TRANSITION FROM SQUARE TO ROUND DUCT
	EA	EXHAUST AIR		-	TRANSITION
_	EAT	ENTERING AIR TEMPERATURE	} D→ }	_	DUCT DROP
	EF-		{ R → }	_	DUCT RISE
-		ELEVATION			
-	EL		<u> </u>		SQUARE VANED ELBOW
-	ER	EXHAUST REGISTER		_	DUCT RISE
-	ERV	ENERGY RECOVERY VENTILATOR		_	DUCT DROP
-	ESP	EXTERNAL STATIC PRESSURE		AL	ACOUSTIC LINING
-	FPM	FEET PER MINUTE		FD/AD	FIRE DAMPER W/ ACCESS DOOR
-	FPS	FEET PER SECOND		VD	VOLUME DAMPER
-	HP	HORSE POWER		AL	ACOUSTIC LINING
-	HV-	HEATING AND VENTILATING UNIT	\$ 6x8 \$	-	DUCT SIZE - 1ST FIGURE IS SIDE SHOWN
-	LAT	LEAVING AIR TEMPERATURE	<u> </u>	FC	FLEXIBLE CONNECTION
-	LF	LINEAR FEET	AHU X	-	EQUIPMENT TAG
	MBH	1000 BRITISH THERMAL UNITS PER HOUR	AXXX	-	AIR OUTLET CFM TAG
	OAI	OUTSIDE AIR INTAKE	SED NOTES		
	PSI	POUNDS PER SQUARE INCH	SEDINOTES		
			7		OOL BUILDING SHALL ALWAYS COMPLY WITH THE O MAINTAIN A CERTIFICATE OF OCCUPANCY.
-	RA	RETURN AIR	2. GENERAL SAFETY AND	SECURITY STAND	ARDS FOR CONSTRUCTION PROJECTS:
-	RPM	REVOLUTIONS PER MINUTE	-1		ALL BE STORED IN A SAFE AND SECURE MANNER. JPPLIES OR DEBRIS SHALL BE MAINTAINED.
-	RTU-	ROOFTOP UNIT		AYS BE LOCKED U	INLESS A WORKER IS IN ATTENDANCE TO
-	SA	SUPPLY AIR	2.4. DURING EXTERIOR	RENOVATION WO	RK, OVERHEAD PROTECTION SHALL BE PROVIDED EDIATELY BENEATH THE WORK SITE OR SUCH
-	SP	STATIC PRESSURE			PROVIDED WITH WARNING SIGNS TO PREVENT
-	TD	TRANSFER DUCT	2.5. WORKERS SHALL I		WEAR PHOTO-IDENTIFICATION BADGES AT ALL CURITY PURPOSES WHILE WORKING AT OCCUPIED
-	TSP	TOTAL STATIC PRESSURE	SITES.	FICATION AND SEC	CORTT FURFUSES WHILE WORKING AT OCCUPIED
-	TYP.	TYPICAL			AS FROM OCCUPIED SPACES. CONSTRUCTION
-	U.O.N.	UNLESS OTHERWISE NOTED	OCCUPIED BY DISTRIC	CT STAFF OR STU	ROL OF A CONTRACTOR AND THEREFORE NO JDENTS SHALL BE SEPARATED FROM OCCUPIEI
-	WAC	WINDOW AIR CONDITIONER			DE TO PREVENT THE PASSAGE OF DUST AND S OF THE BUILDING. PERIODIC INSPECTION AND
-	WB	WET BULB TEMPERATURE	DUST OR CONTAMINA	NTS. GYPSUM BO	ERS MUST BE MADE TO PREVENT EXPOSURE TO PARD MUST BE USED TO EXIT WAYS OR OTHER
_	WG	INCHES OF WATER GAUGE	_, _		ARATION. HEAVY DUTY PLASTIC SHEETING MAY B R AIR INFILTRATION BARRIER, AND SHALL NOT B
-	WMS	WIRE MESH SCREEN	USED TO SEPARATE O	CCUPIED SPACES	FROM CONSTRUCTION AREAS. VATOR SHOULD BE ASSIGNED FOR
	-	TEE DOWN	CONSTRUCTION W	ORKER USE DURIN	NG WORK HOURS. IN GENERAL, WORKERS MAY LEVATORS DESIGNATED FOR STUDENTS OR
	-	ELBOW DOWN	SCHOOL STAFF.	,	BE REMOVED BY USING ENCLOSED CHUTES OR A
	_	TEE UP	SIMILAR SEALED S	YSTEM. THERE SH	ALL BE NO MOVEMENT OF DEBRIS THROUGH
<u> </u>			THROWN OUTSIDE	THE WALLS OF TH	
	-	ELBOW UP	BE CLEANED AT TH	IE CLOSE OF EACH	ING AFFECTED BY RENOVATION ACTIVITY SHALL WORKDAY. SCHOOL BUILDINGS OCCUPIED
\bowtie	-	CONCENTRIC REDUCER			' SHALL MAINTAIN REQUIRED HEALTH, SAFETY AN' TIMES THAT CLASSES ARE IN SESSION.
I	-	ECCENTRIC REDUCER	4. CONSTRUCTION AND N	MAINTENANCE OPE	ERATIONS SHALL NOT PRODUCE NOISE IN EXCES
—	-	FLOW ARROW			SHALL BE SCHEDULED FOR TIMES WHEN THE SPACES ARE NOT OCCUPIED OR ACOUSTICATION
	EX.	EXISTING TO REMAIN	ABATEMENT MEASURE		
	NEW	NEW WORK			SIBLE FOR THE CONTROL OF CHEMICAL FUMES PRODUCED BY WELDING, GASOLINE OR DIESE
	DEM.	EXISTING TO BE REMOVED	ENGINES, ROOFING, PA	AVING, PAINTING,	ETC. TO ENSURE THEY DO NOT ENTER OCCUPIE
— CD —	-	CONDENSATE DRAIN	PORTIONS OF THE BUIL		
LPS	-	LOW PRESSURE STEAM	WHICH RESULT IN "OF	F-GASSING" OF V	BLE TO ENSURE THAT ACTIVITIES AND MATERIAL OLATILE ORGANIC COMPOUNDS SUCH AS GLUES
—— LPR ——	-	LOW PRESSURE STEAM CONDENSATE RETURN	CURED OR VENTILATE	ED IN ACCORDAN	L COVERING, DRAPERY, ETC. ARE SCHEDULE CE WITH MANUFACTURERS RECOMMENDATION
— RL —	-	REFRIGERANT LIQUID	BEFORE A SPACE CAN	BE OCCUPIED.	
RS	-	REFRIGERANT LIQUID REFRIGERANT SUCTION		_	ENT PROJECTS AS DEFINED BY 12NYCRR56 SHALIE BUILDING IS OCCUPIED." NOTE, IT IS OU
	-		INTERPRETATION THAT	THE TERM "BUILD	DING", AS REFERENCED IN THIS SECTION, MEANS G THAT CAN BE COMPLETELY ISOLATED FROM TH
\bigcirc		THERMOSTAT	REST OF THE BUILDING	G WITH SEALED NO	ON COMBUSTIBLE CONSTRUCTION. THE ISOLATE
\mathbb{H}	_	HUMIDISTAT	ן סרור חוייי סר דור חוייי	DING MILET COM	TAIN EXISTS THAT DO NOT PASS THROUGH TH

GENERAL NOTES

- CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, SHEET METAL, AND PIPING, SHALL BE UNDERSTOOD AS DIAGRAMMATIC. ANY CHANGES TO EQUIPMENT, SHEET METAL, AND PIPING LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST, AND MUST BE APPROVED BY THE ENGINEER.
- 2. THE MECHANICAL CONTRACTOR SHALL INSTALL FIRE DAMPERS WITH ACCESS DOORS IN ALL DUCTS PENETRATING FIRE RATED WALLS, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL VOLUME DAMPERS IN DUCTWORK AS REQUIRED TO BALANCE THE AIRFLOW AT ALL REGISTERS AND DIFFUSERS TO THE CFM'S INDICATED ON PLAN, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE
- ACOUSTICALLY LINE ALL ALL DUCTWORK 20'-0" DOWNSTREAM OF RTU(S) AND DOAS(S). ALSO, ACOUSTICALLY LINE ALL DUCTWORK 5'-0" DOWNSTREAM OF VAV BOXES ACOUSTIC LINING SHALL BE 1" THICK.
- DUCT-MOUNTED SMOKE DETECTORS AND SAMPLING TUBES SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL INSTALL EACH SAMPLING TUBE IN THE DUCTWORK. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE EACH SMOKE DETECTOR. THE MECHANICAL CONTRACTOR SHALL NOT BRANCH OFF ANY DUCT REQUIRING A DUCT SMOKE DETECTOR BEFORE THE DUCT SMOKE DETECTOR. LOCATE SMOKE DETECTORS IN SERVICEABLE AREAS, NOT IN SHAFTS.
- ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE MECHANICAL CONTRACTOR FOR HVAC EQUIPMENT SHALL BE HEAVY DUTY TYPE.
- THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK, AND SHALL COORDINATE ALL WORK WITH OTHER TRADES.
- DUCT DIMENSIONS SHOWN ON MECHANICAL DRAWINGS REFER TO INSIDE CLEAR DUCT DIMENSIONS. WHERE DUCTWORK IS LINED, THE MECHANICAL CONTRACTOR SHALL INCREASE THE SIZE OF DUCT TO COMPENSATE FOR LINING.
- 10. LOCATE THERMOSTATS AND TEMPERATURE SENSORS 5'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE, CABINETS, ETC. FURNISH LOCKING TAMPERPROOF COVER FOR ALL NEW THERMOSTATS IN PUBLIC AREAS.
- 11. COORDINATE DUCTWORK, GRILLE, DIFFUSER AND REGISTER LOCATIONS WITH LIGHTS, SMOKE DETECTORS, AND THE ARCHITECTURAL PLANS.
- 12. THE MECHANICAL CONTRACTOR SHALL NOTE THAT, IN ADDITION TO THE SPECIFICATIONS AND DETAILS GIVEN IN THESE PLANS FOR PIPE HANGERS AND SUPPORTS, ALL HANGERS AND SUPPORTS SHALL BE DESIGNED AND INSTALLED IN COMPLIANCE WITH APPLICABLE SEISMIC CODES.
- 13. ALL EXPOSED DUCTWORK LOCATED IN AREAS WHERE THERE IS NO CEILING SHALL BE ROUND OR OVAL SPIRAL DUCTWORK, INTERNALLY LINED, PRIMED AND FINISHED PAINTED WITH FLAT ENAMEL. COORDINATE COLOR SELECTION WITH ARCHITECTURAL PLANS.
- 14. THE MECHANICAL CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING DUCTWORK, PLUMBING AND SPRINKLER PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, DIFFUSERS,
- 15. ALL WORK SHALL COMPLY WITH STATE BUILDING CODE, LOCAL BUILDING CODE, ENERGY CODE, AND SED REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- 16. DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH HEAVY POLYETHYLENE PLASTIC. AFTER THE INSTALLATION OF DUCTWORK, REGISTERS, GRILLES, AND DIFFUSERS, THE CONTRACTOR SHALL BLANK OFF ALL REGISTERS, GRILLES, AND DIFFUSERS WITH HEAVY POLYETHYLENE PLASTIC AND TAPE AIR TIGHT, IN AREAS THAT ARE UNDER CONSTRUCTION, UNTIL WORK IS COMPLETE IN THOSE AREAS. FLOOR REGISTERS AND GRILLES SHALL ALSO BE COVERED WITH 1/8" MASONITE.
- 17. WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT IN THE PROJECT AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS. REPLACE ALL AIR FILTERS WITH
- 18. THE OWNER'S PERMANENT HVAC EQUIPMENT (NEW AND EXISTING) SHALL NOT BE USED BY ANY CONTRACTOR DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, OR VENTILATION. IF TEMPORARY HEATING, COOLING, OR VENTILATION IS REQUIRED AT ANY POINT DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING, COOLING, OR VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, AND POWER AT HIS OWN EXPENSE.
- 19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED. AS REQUIRED BY OSHA.
- 20. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF MECHANICAL WORK, INCLUDING THE INSTALLATION OF HANGERS FOR PIPING, DUCTWORK, OR EQUIPMENT, SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
- 21. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- 22. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, ACCESS PANELS. PAINTING. AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF HVAC DUCTWORK, CONTROL CONDUITS, AND PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE MECHANICAL WORK.
- 23. ALL ROOF WORK ASSOCIATED WITH PENETRATIONS FOR NEW DUCTWORK AND REFRIGERANT PIPING & CONTROL WIRING SHALL BE MADE BY THE BONDED ROOF CONTRACTOR.
- 24. REPLACE FILTERS FOR ALL RTU(S), DOAS(S) AND INDOOR VRF UNITS AFTER CONSTRUCTION IS COMPLETE.
- 25. ALL DUCTWORK SHALL BE PRESSURE TESTED AND INSPECTED PRIOR TO CONCEALMENT IN GENERAL CONSTRUCTION OR INSTALLATION OF HUNG CEILINGS.

ADD ALTERNATE NOTES

ADD ALTERNATE #1

THE CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE PRICE FOR THE FULL INSTALLATION OF THE FOLLOWING SYSTEMS INCLUDING ALL RELATED INDOOR HEAT PUMP UNITS. REFRIGERANT AND CONDENSATE PIPING, DUCTWORK AND ACCESSORIES, REGISTERS, POWER, FIRE ALARM AND CONTROLS & ANY & ALL DEMOLITION & PATCHING. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL PLANS.

• DOAS UNIT #3, #4, #5 AND ASSOCIATED ACCUS #6, #7, #8

VRF SYSTEMS ACCUs #2 & #3 AND ALL ASSOCIATED INDOOR HEAT PUMP UNITS

ADD ALTERNATE #2

THE CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE PRICE FOR THE FULL INSTALLATION OF THE FOLLOWING SYSTEMS INCLUDING ALL RELATED INDOOR HEAT PUMP UNITS, REFRIGERANT AND CONDENSATE PIPING, DUCTWORK AND ACCESSORIES, REGISTERS, POWER, FIRE ALARM AND CONTROLS & ANY & ALL DEMOLITION & PATCHING. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL PLANS.

DOAS UNIT #1 & #2 AND ASSOCIATED ACCUS #4 & #5

VRF SYSTEM ACCU #1 AND ALL ASSOCIATED INDOOR HEAT PUMP UNITS

COMMISSIONING NOTES

- REFER TO SPECIFICATION SECTION 230800. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A 3RD PARTY COMMISSIONING AGENT.
- PRIOR TO COMMISSIONING, THE CONTRACTOR SHALL PROVIDE A STATEMENT CONFIRMING THAT ALL SYSTEMS ARE FULLY OPERATIONAL AND ALL PRE-FUNCTIONAL TESTS AND CHECKS LISTED BELOW HAVE BEEN SUCCESSFULLY COMPLETED. SUBMIT A COPY OF ALL CHECK SHEETS FOR ENGINEER REVIEW AND APPROVAL.
- PRE-FUNCTIONAL TESTS AND CHECKS (PREREQUISITES FOR COMMISSIONING):
 - THE CONTRACTOR SHALL PERFORM THE FOLLOWING AT A MINIMUM -
 - ENSURE THAT ALL SUBMITTALS ARE COMPLETED AND APPROVED BY ENGINEER AND COMMISSIONING AGENT.
- CERTIFY THAT ALL SYSTEMS TO BE COMMISSIONED, SUBSYSTEMS AND EQUIPMENT HAVE BEEN INSTALLED, CALIBRATED AND STARTED; ACCORDING TO THE CONTRACT DOCUMENTS COMPLETE. ALL MANUFACTURER STARTUP REQUIREMENTS
- CERTIFY THAT ALL RELEVANT INSTRUMENTATION AND CONTROL SYSTEMS HAVE BEEN COMPLETED AND CALIBRATED; ARE OPERATING ACCORDING TO CONTRACT DOCUMENTS; AND THAT PRETEST SET POINTS HAVE BEEN RECORDED.

CERTIFY THAT TESTING, ADJUSTING AND BALANCING (TAB) PROCEDURES HAVE BEEN

- COMPLETED AND THE TAB REPORT HAS BEEN SUBMITTED, DISCREPANCIES CORRECTED AND CORRECTIVE WORK APPROVED BY THE ENGINEER • SET SYSTEMS, SUBSYSTEMS AND EQUIPMENT TO OPERATING MODE TO BE TESTED
- (E.G., NORMAL SHUT DOWN, NORMAL AUTO POSITION, NORMAL MANUAL POSITION, AND ALARM CONDITIONS). VERIFY EACH OF THE SYSTEMS ONCE IT IS OPERATING IN A STEADY STATE CONDITION.
- REFER TO THE SEQUENCE OF OPERATIONS. INSPECT AND VERIFY THE POSITION OF EACH DEVICE AND INTERLOCK IDENTIFIED ON CHECKLISTS. SIGN OFF EACH ITEM AS ACCEPTABLE OR FAILED. REPEAT THIS TEST FOR
- EACH OPERATING CYCLE THAT APPLIES TO SYSTEM BEING TESTED SIMULATE CONDITIONS REQUIRED IN ORDER TO TEST ALL SAFETY CUTOUTS, ALARMS AND INTERLOCKS WITH LIFE SAFETY SYSTEMS DURING EACH MODE OF OPERATION WHEN APPLICABLE.
- ANNOTATE CHECKLIST OR DATA SHEET WHEN A DEFICIENCY IS OBSERVED.
- VERIFY EQUIPMENT INTERFACE WITH MONITORING AND CONTROL SYSTEM.
- AFTER PRE-AFUNCTIONAL TESTING IS COMPLETE, THE CONTRACTOR SHALL PERFORM FUNCTIONAL TESTING IN THE PRESENCE OF THE COMMISSIONING AGENT FOR THE SYSTEMS LISTED BELOW IN ACCORDANCE WITH THE COMMISSIONING SPECIFICATIONS:
 - ROOFTOP UNITS
 - DOAS UNITS CONDENSING UNITS
 - VRF SYSTEMS
 - CONTROL DAMPERS AND CONTROL VALVES
 - AUTOMATIC CONTROLS
- 4. AFTER FUNCTIONAL TESTING, THE COMMISSIONING AGENT (CX) SHALL ISSUE A REPORT OF TEST RESULTS AND DOCUMENT ANY DEFICIENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ALL DEFICIENCIES. THE CONTRACTOR SHALL SEND A WRITTEN RESPONSE TO THE OWNER/ENGINEER/CX AGENT THAT AN OPEN ISSUE HAS BEEN RECTIFIED. THE DEFICIENCY SHALL NOT BE CONSIDERED RESOLVED UNTIL THE APPROPRIATE RETESTING IS PERFORMED WITH THE CX AGENT.
- PRIOR TO TURNOVER (OWNER ACCEPTANCE). A COMPLETE AND SUCCESSFUL DEMONSTRATION OF ALL SYSTEM OPERATING FUNCTIONS AND ALARMS SHALL BE PERFORMED BY THIS CONTRACTOR IN THE PRESENCE OF THE OWNERS REPRESENTATIVE AND COMMISSIONING AGENT.
- IN ADDITION TO THE ABOVE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:
 - PARTICIPATE IN MAINTENANCE ORIENTATION AND INSPECTION MEETING.
 - PARTICIPATE IN PROCEDURES MEETING FOR TESTING.
 - EXECUTE INSTALLATION PRE-FUNCTIONAL CHECK SHEETS. SUPPORT FUNCTIONAL TESTING WITH QUALIFIED TECHNICIANS.
 - RESPOND TO CX DEFICIENCIES IN ACCORDANCE WITH OWNER SCHEDULE. PARTICIPATE IN FINAL REVIEW AT ACCEPTANCE MEETING.
 - NOTIFY COMMISSIONING AGENT AT MINIMUM TWO WEEKS IN ADVANCE OF ANY TESTING.

TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT

65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



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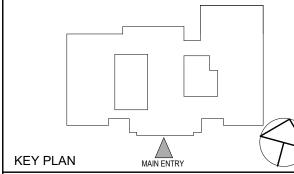
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CONSULTING ENGINEERS

CONSTRUCTION DOCUMENTS



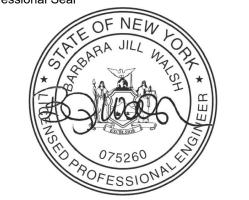
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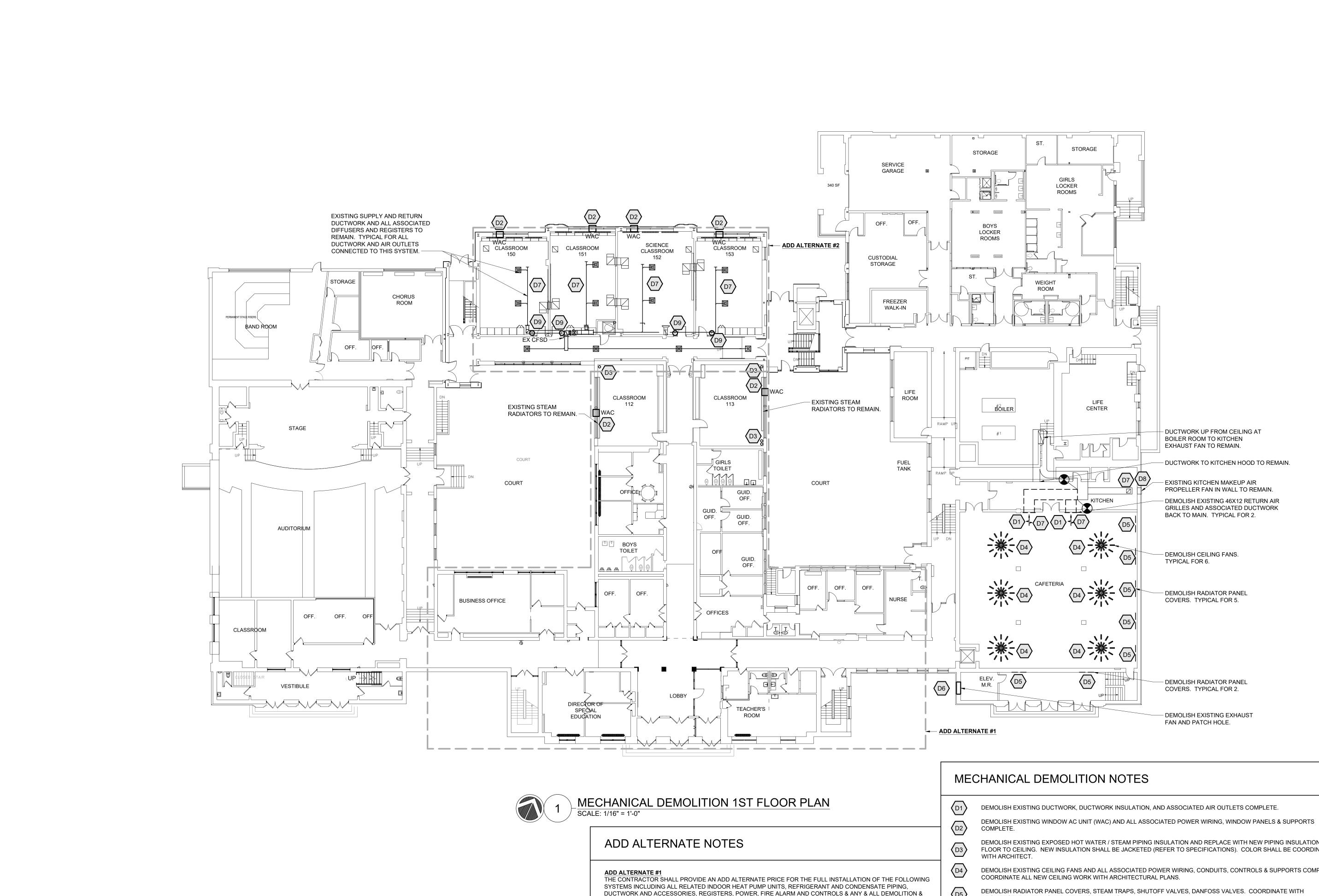
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No.	Date	Issue

SYMBOLS **ABBREVIATIONS & GENERAL NOTES**

NKGD0239.00 09/10/2021 Drawn / Checked AS NOTED NW / RS

Sheet Number

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PATCHING. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL PLANS.

PATCHING. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL PLANS.

VRF SYSTEM ACCU #1 AND ALL ASSOCIATED INDOOR HEAT PUMP UNITS

VRF SYSTEMS ACCUs #2 & #3 AND ALL ASSOCIATED INDOOR HEAT PUMP UNITS

THE CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE PRICE FOR THE FULL INSTALLATION OF THE FOLLOWING

DUCTWORK AND ACCESSORIES, REGISTERS, POWER, FIRE ALARM AND CONTROLS & ANY & ALL DEMOLITION &

SYSTEMS INCLUDING ALL RELATED INDOOR HEAT PUMP UNITS. REFRIGERANT AND CONDENSATE PIPING.

DOAS UNIT #3, #4, #5 AND ASSOCIATED ACCUS #6, #7, #8

DOAS UNIT #1 & #2 AND ASSOCIATED ACCUS #4 & #5

TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD



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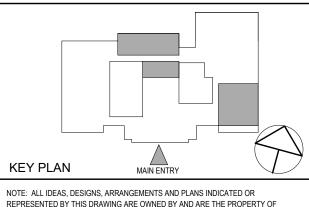
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- DEMOLISH EXISTING EXPOSED HOT WATER / STEAM PIPING INSULATION AND REPLACE WITH NEW PIPING INSULATION FROM FLOOR TO CEILING. NEW INSULATION SHALL BE JACKETED (REFER TO SPECIFICATIONS). COLOR SHALL BE COORDINATED
- DEMOLISH EXISTING CEILING FANS AND ALL ASSOCIATED POWER WIRING, CONDUITS, CONTROLS & SUPPORTS COMPLETE.
- ARCHITECTURAL PLANS AND NEW WORK PLANS.
- DEMOLISH EXISTING PROPELLER EXHAUST FAN AND ALL ASSOCIATED POWER WIRING, CONDUITS, AND CONTROLS COMPLETE.
- PROVIDE CFM READING ON EXISTING DIFFUSERS PRIOR TO ANY DEMOLITION OR NEW WORK.
- EXISTING MAKEUP AIR FAN FOR KITCHEN TO REMAIN. DEMOLISH FAN STARTER AND ANY CONTROLS. REFER TO M205 FOR
- DEMOLISH EXISTING THERMOSTAT AND ASSOCIATED CONTROL WIRING TO EXISTING HOT WATER CONTROL VALVE.

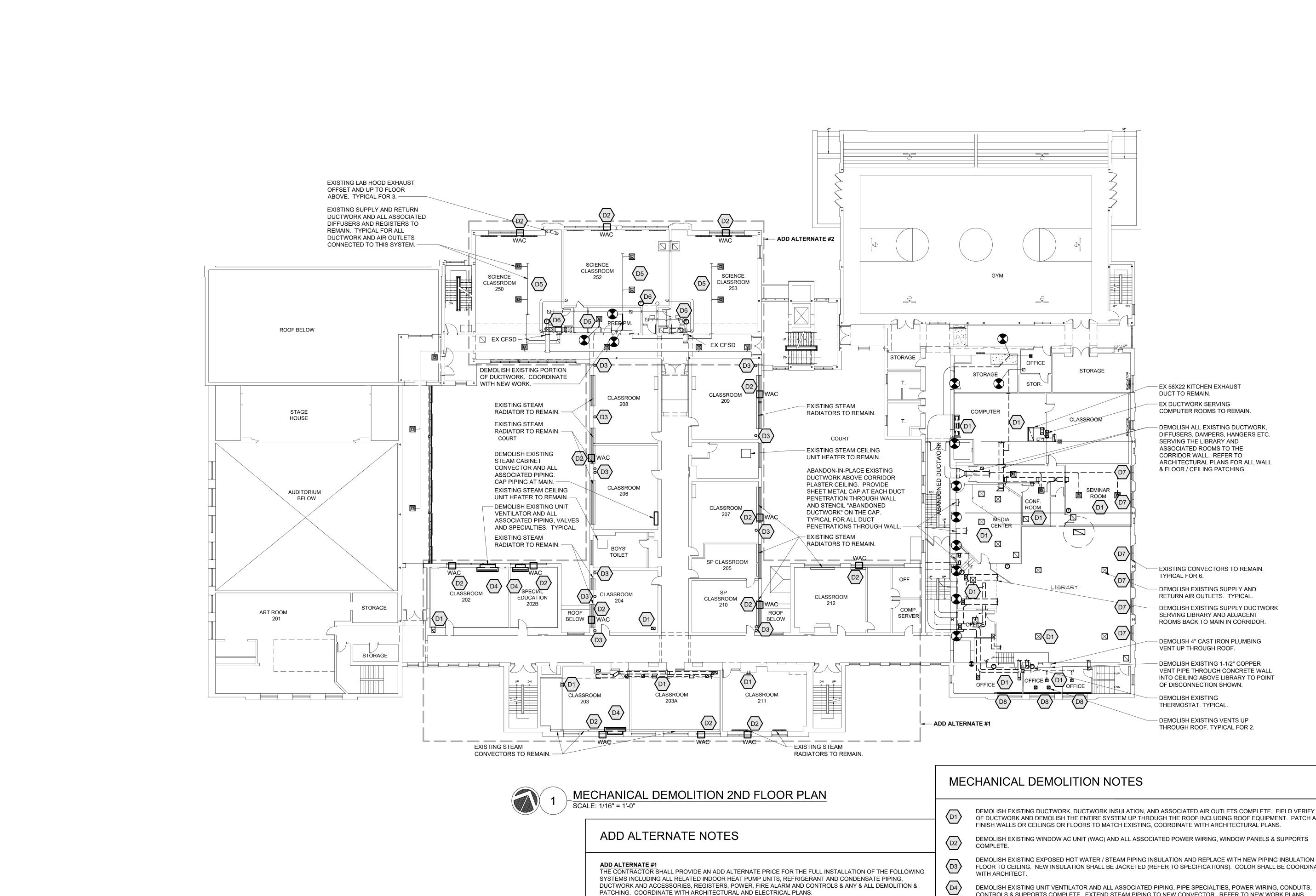
No. Date Sheet Title **DEMOLITION** 1ST FLOOR **PLAN**

1 03/31/2022 ISSUED FOR BID

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M101

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DOAS UNIT #3, #4, #5 AND ASSOCIATED ACCUS #6, #7, #8

DOAS UNIT #1 & #2 AND ASSOCIATED ACCUS #4 & #5

VRF SYSTEMS ACCUs #2 & #3 AND ALL ASSOCIATED INDOOR HEAT PUMP UNITS

PATCHING. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL PLANS.

VRF SYSTEM ACCU #1 AND ALL ASSOCIATED INDOOR HEAT PUMP UNITS

THE CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE PRICE FOR THE FULL INSTALLATION OF THE FOLLOWING

DUCTWORK AND ACCESSORIES, REGISTERS, POWER, FIRE ALARM AND CONTROLS & ANY & ALL DEMOLITION &

SYSTEMS INCLUDING ALL RELATED INDOOR HEAT PUMP UNITS. REFRIGERANT AND CONDENSATE PIPING.

TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD



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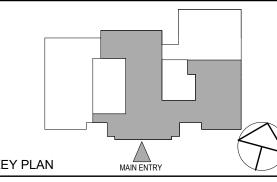
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CONSTRUCTION **DOCUMENTS**



KEY PLAN

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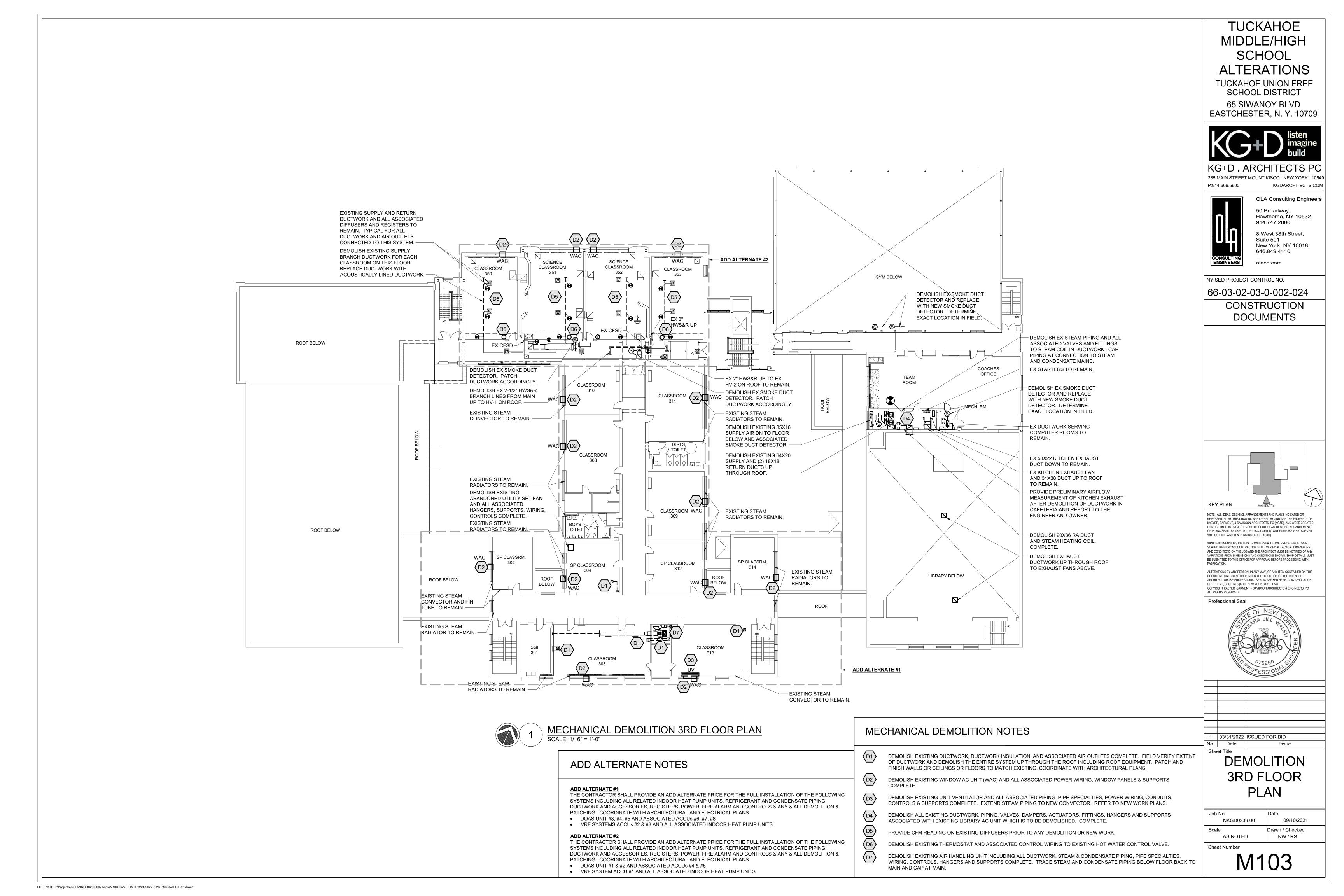


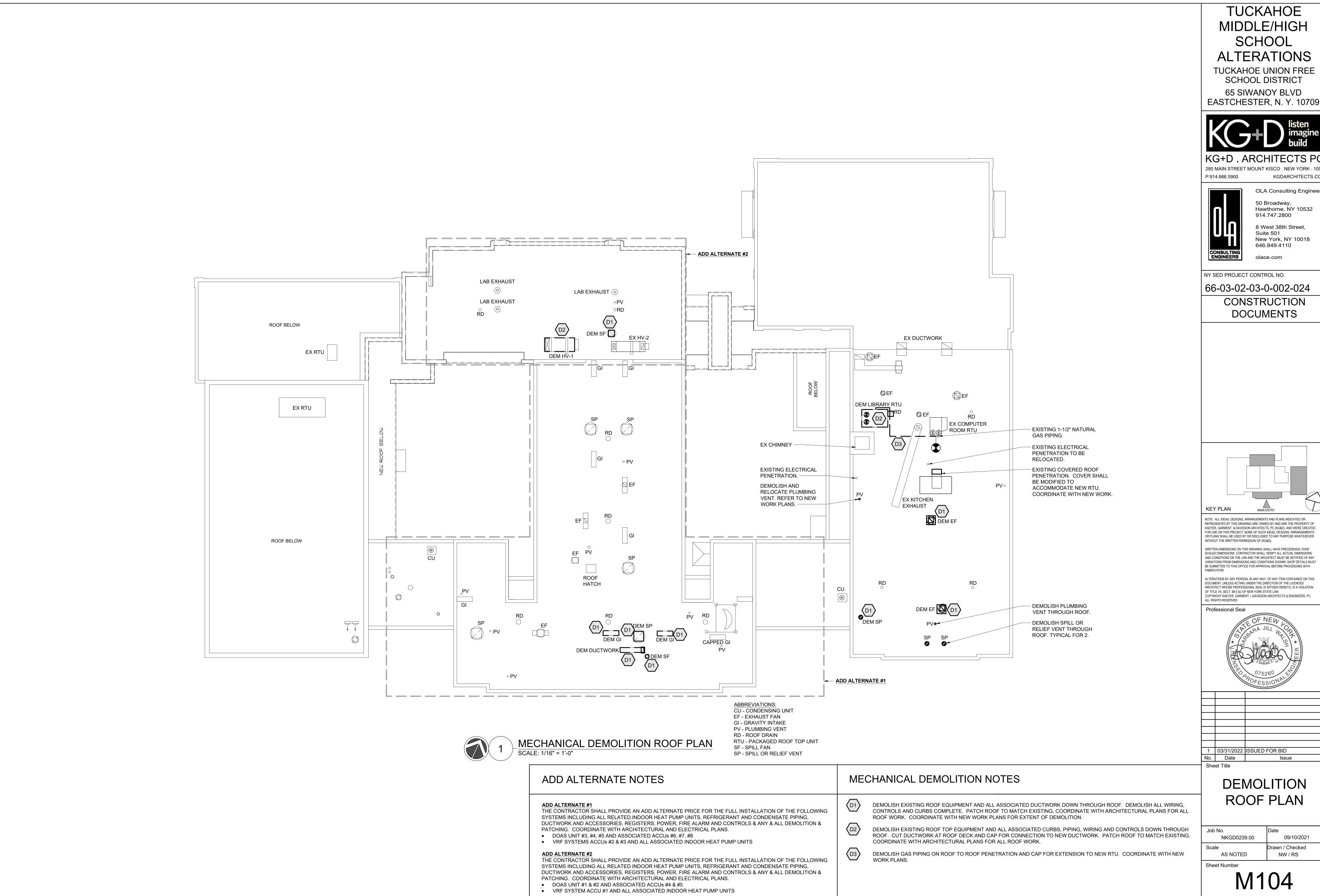
- DEMOLISH EXISTING DUCTWORK, DUCTWORK INSULATION, AND ASSOCIATED AIR OUTLETS COMPLETE. FIELD VERIFY EXTENT OF DUCTWORK AND DEMOLISH THE ENTIRE SYSTEM UP THROUGH THE ROOF INCLUDING ROOF EQUIPMENT. PATCH AND
- DEMOLISH EXISTING EXPOSED HOT WATER / STEAM PIPING INSULATION AND REPLACE WITH NEW PIPING INSULATION FROM FLOOR TO CEILING. NEW INSULATION SHALL BE JACKETED (REFER TO SPECIFICATIONS). COLOR SHALL BE COORDINATED
- DEMOLISH EXISTING UNIT VENTILATOR AND ALL ASSOCIATED PIPING, PIPE SPECIALTIES, POWER WIRING, CONDUITS, CONTROLS & SUPPORTS COMPLETE. EXTEND STEAM PIPING TO NEW CONVECTOR. REFER TO NEW WORK PLANS.
- PROVIDE CFM READING ON EXISTING DIFFUSERS PRIOR TO ANY DEMOLITION OR NEW WORK.
- DEMOLISH EXISTING THERMOSTAT AND ASSOCIATED CONTROL WIRING TO EXISTING HOT WATER CONTROL VALVE.
 - EXISTING STEAM CONVECTORS TO REMAIN. DEMOLISH STEAM TRAPS, SHUTOFF VALVES, DANFOSS VALVES. COORDINATE WITH ARCHITECTURAL PLANS AND NEW WORK PLANS.
- EXISTING FIN TUBE TO REMAIN. DEMOLISH STEAM TRAPS, SHUTOFF VALVES, DANFOSS VALVES. COORDINATE WITH ARCHITECTURAL PLANS AND NEW WORK PLANS.

Date Sheet Title **DEMOLITION** 2ND FLOOR **PLAN**

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MIDDLE/HIGH SCHOOL **ALTERATIONS**

SCHOOL DISTRICT 65 SIWANOY BLVD



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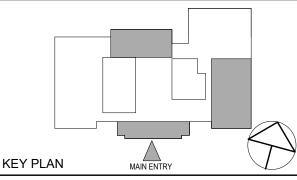
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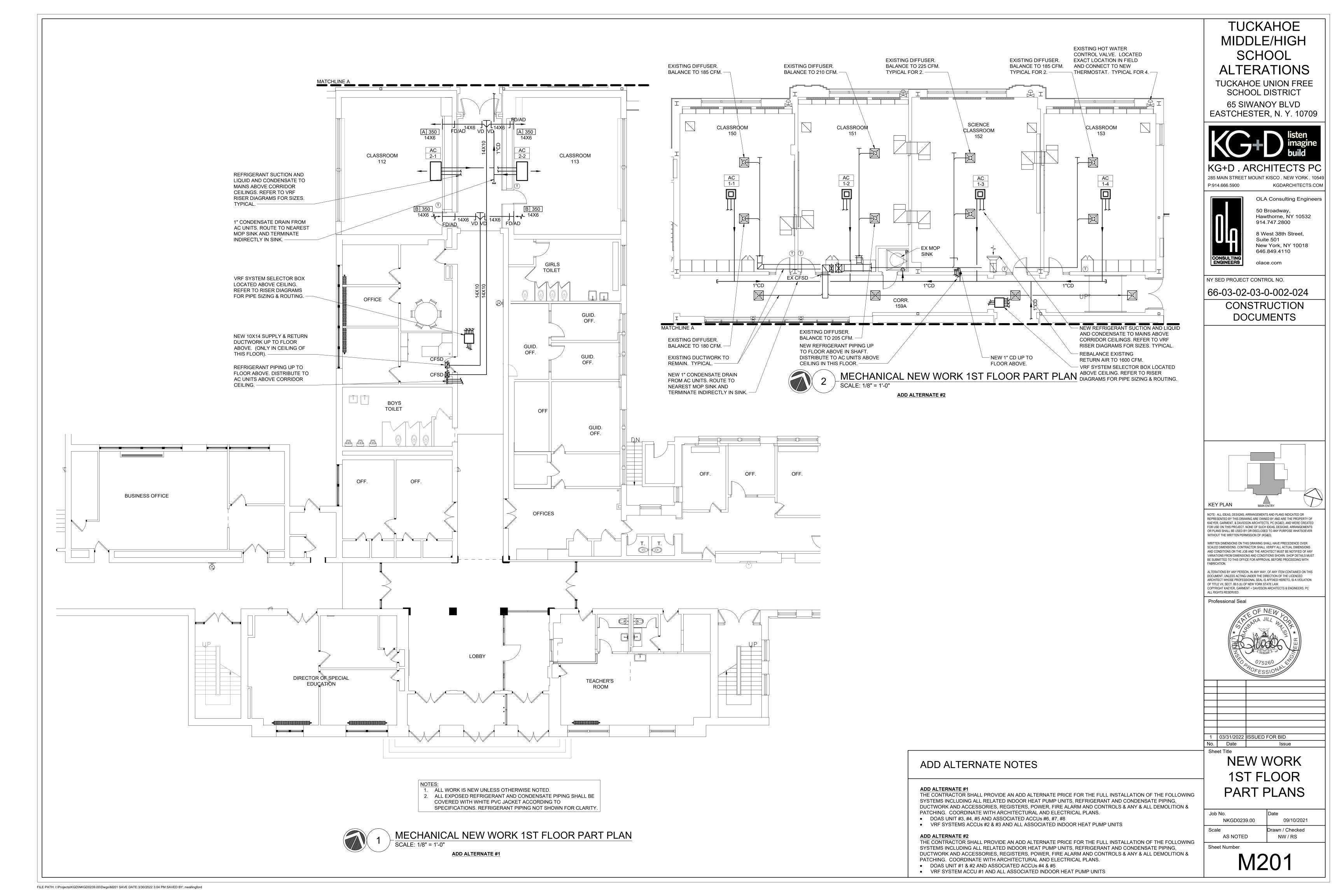


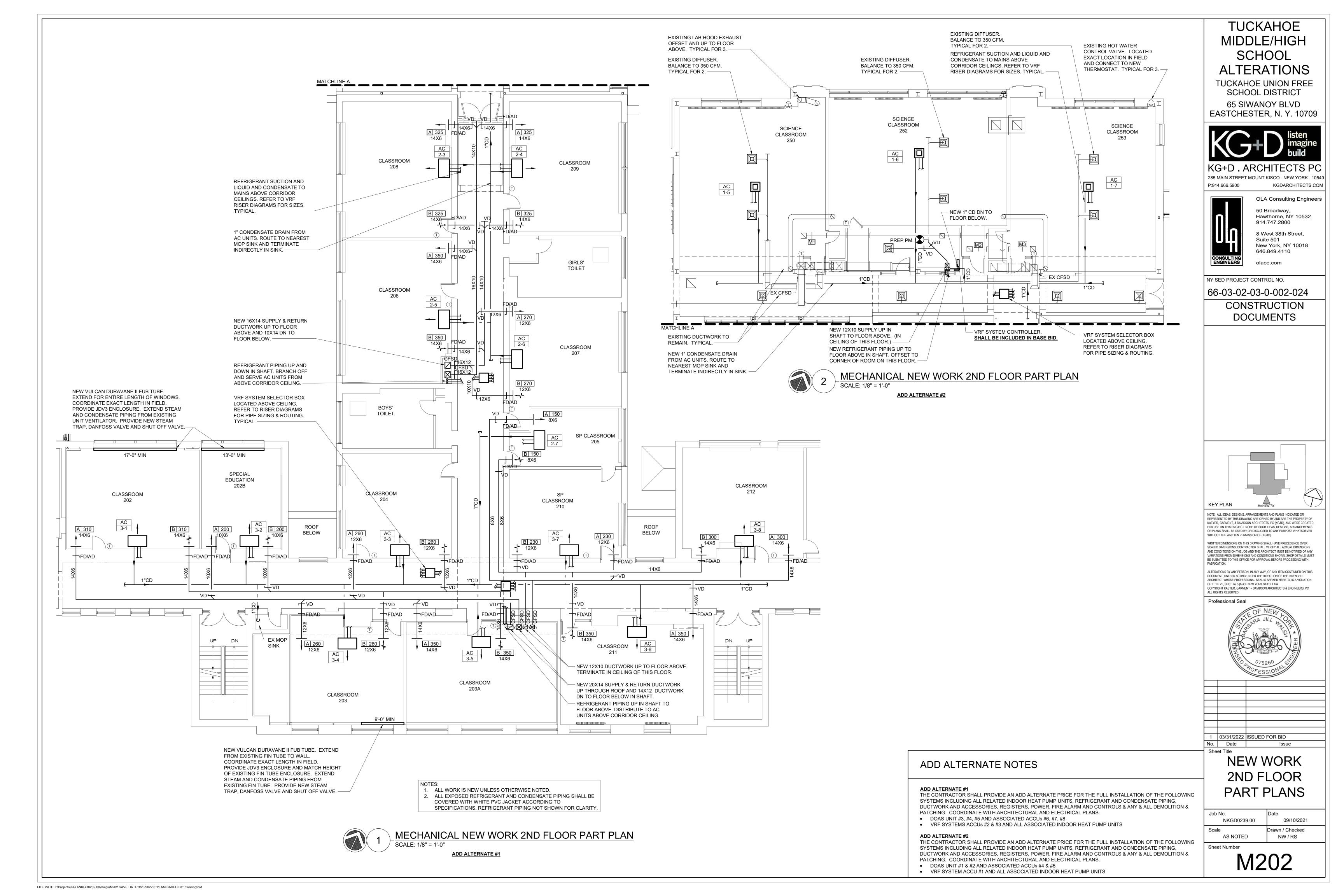
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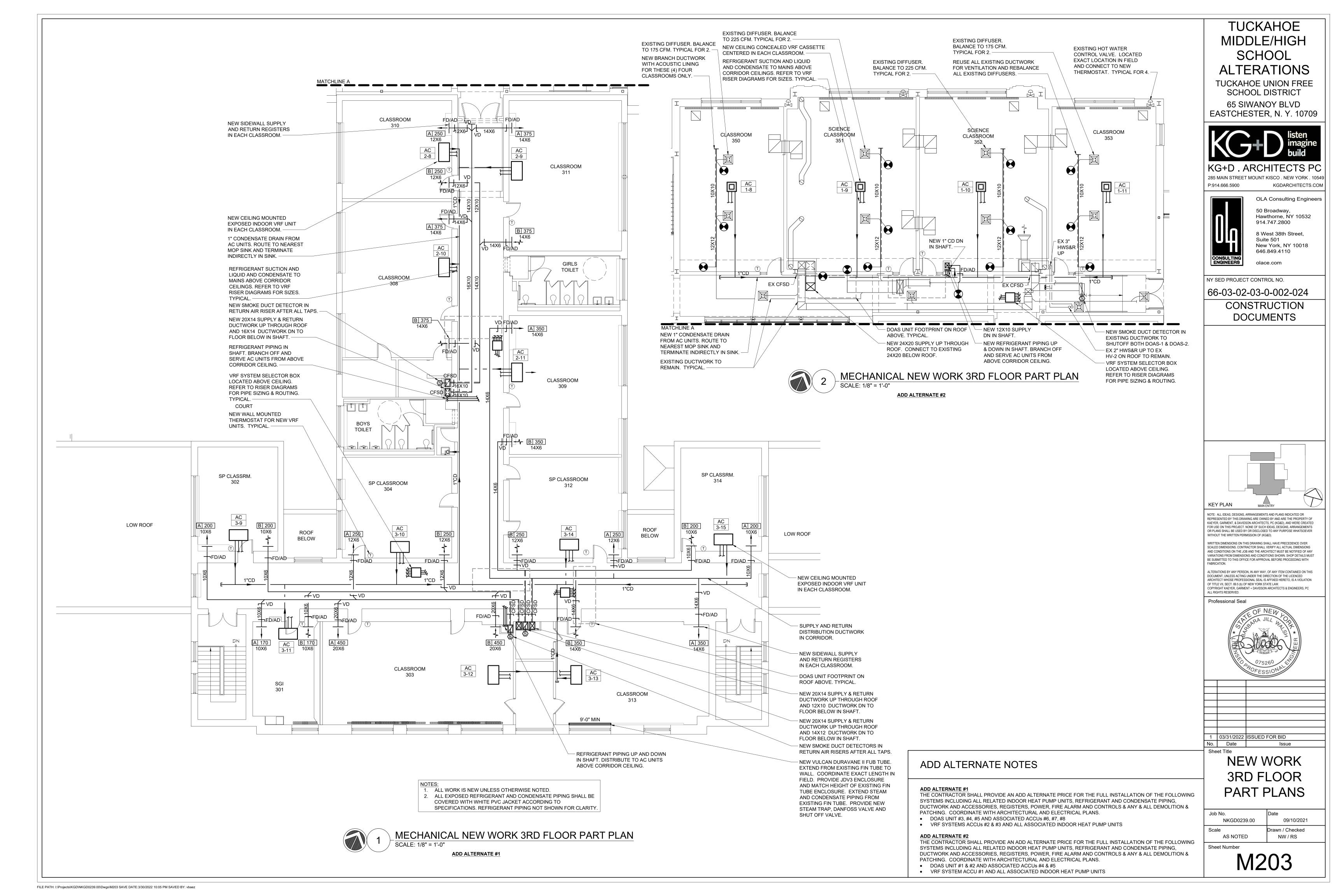
DEMOLITION **ROOF PLAN**

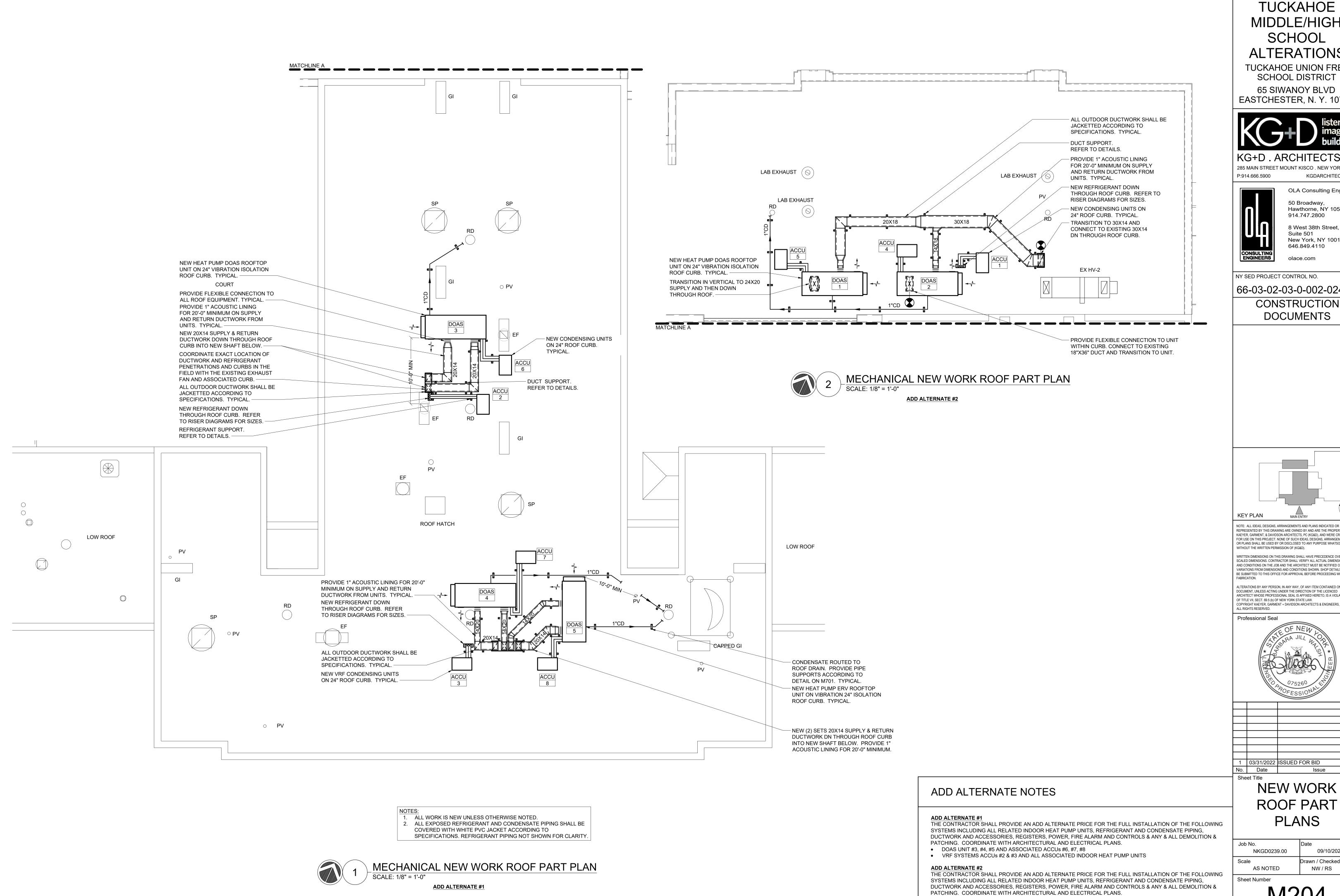
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MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT

65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



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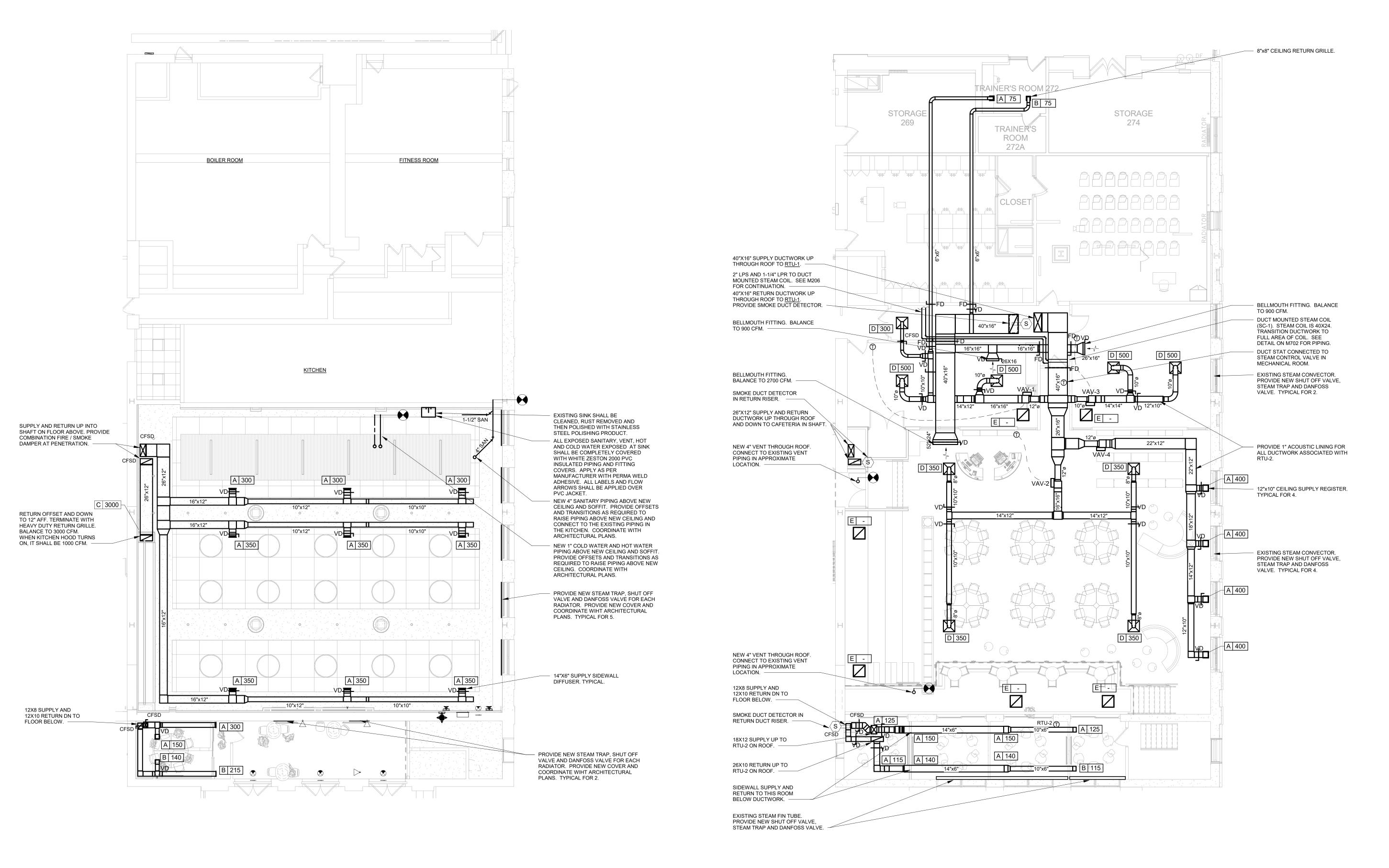
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NEW WORK ROOF PART PLANS

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DOAS UNIT #1 & #2 AND ASSOCIATED ACCUS #4 & #5

VRF SYSTEM ACCU #1 AND ALL ASSOCIATED INDOOR HEAT PUMP UNITS



MECHANICAL CAFETERIA NEW WORK PLAN

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



TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



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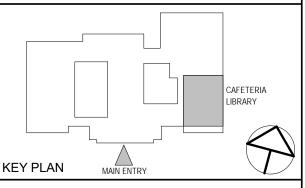
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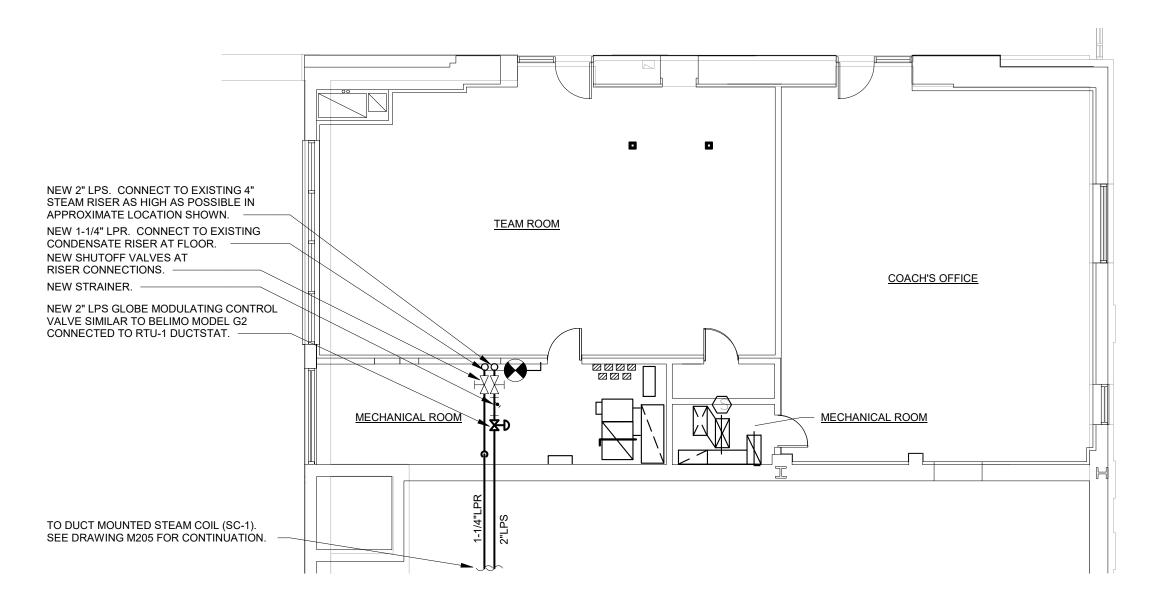
CAFETERIA & LIBRARY NEW **WORK PART**

> **PLANS** NKGD0239.00

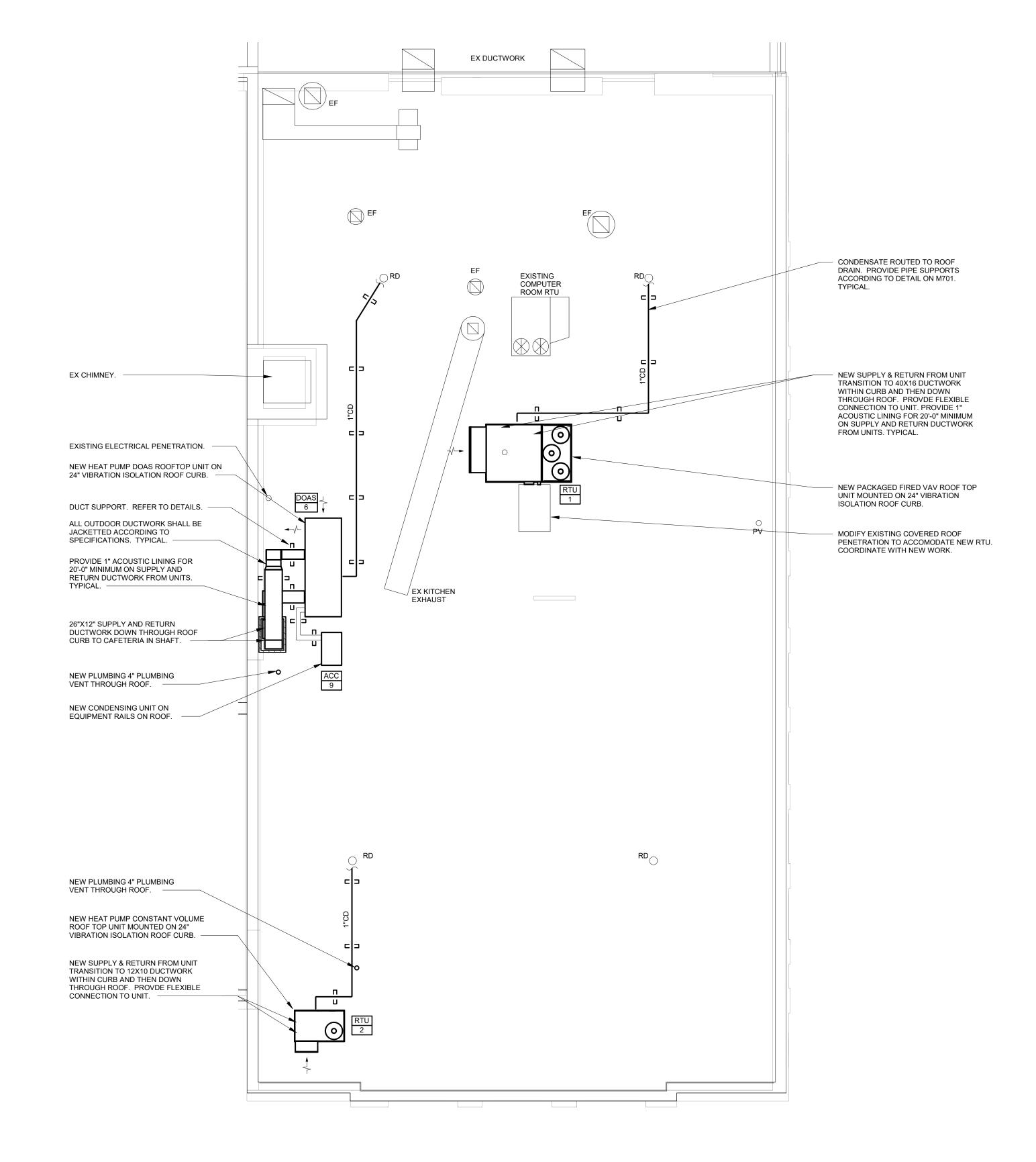
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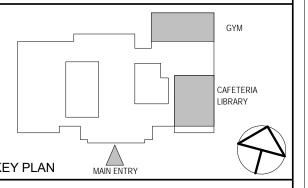
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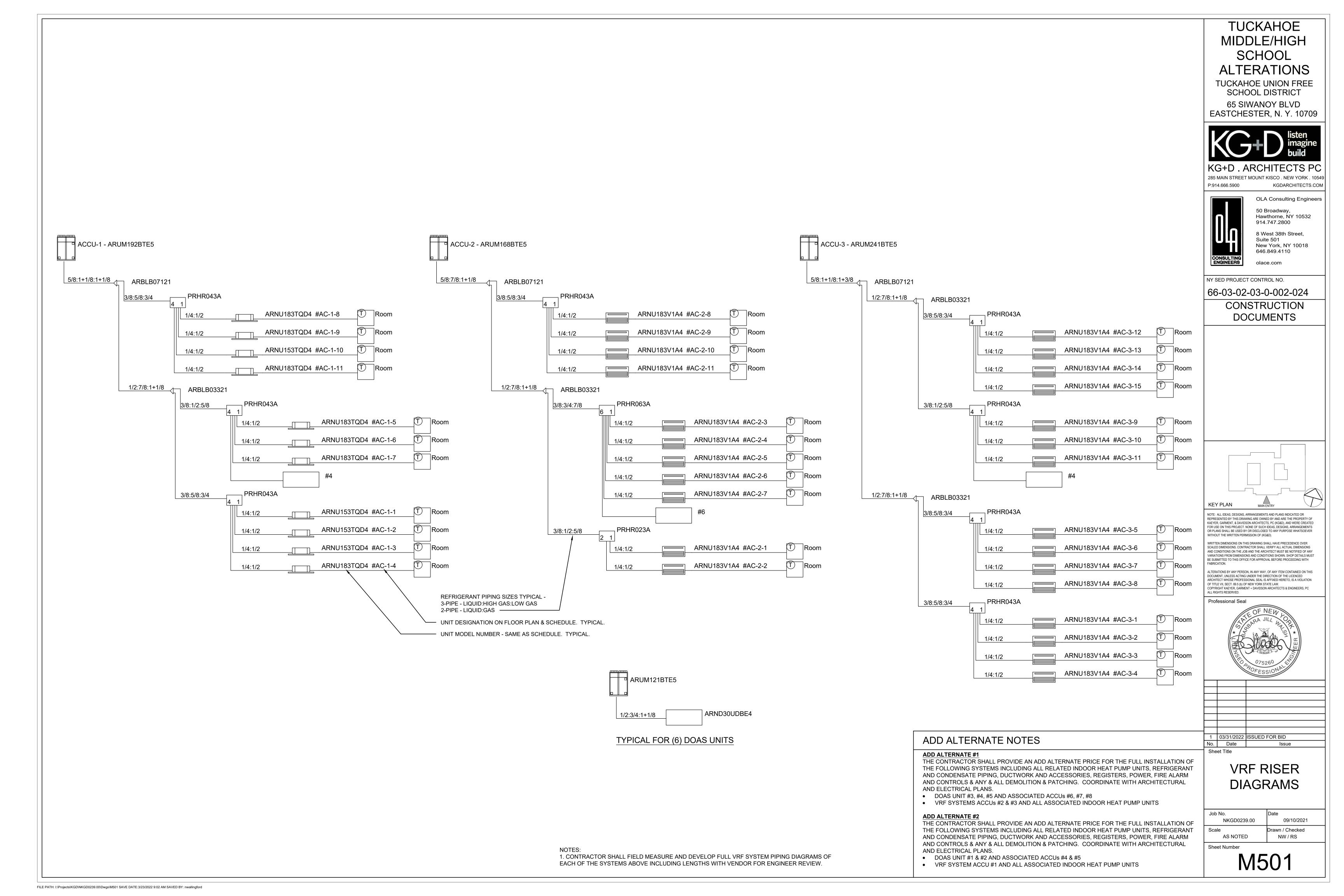
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Sheet Title CAFETERIA & LIBRARY ROOF **NEW WORK PART** PLAN

NKGD0239.00 Scale AS NOTED

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M206



V	ARIABLE AIR VO	LUME BOX S	CHEDULE	
DESIGNATION	VAV-1	VAV-2	VAV-3	VAV-4
MANUFACTURER	TITUS	TITUS	TITUS	TITUS
MODEL	DESV-12	DESV-12	DESV-10	DESV-12
INLET SIZE (IN)	12	12	10	12
OUTLET SIZE (IN)	16x16	16x16	14x12	16x16
DESIGN MINIMUM CFM	-	-	-	-
DESIGN MAXIMUM CFM	1300	1400	1000	1600
CATALOG MINIMUM CFM	0	0	0	0
CATALOG MAXIMUM CFM	2000	2000	1400	2000
ELEC HEATING COIL (KW)	-	-	-	-

- VAV BOXES SHALL BE SINGLE DUCT COOLING/HEATING, WITH DIGITAL ELECTRONIC PRESSURE INDEPENDENT CONTROLS. VAV BOX CONTROLLER SHALL BE CAPABLE OF "DUAL" MAXIMUM CONTROL SEQUENCE, I.E. HEATING & COOLING MAXIMUMS.
- MAXIMUM RADIATED NC<30, MAXIMUM DISCHARGE NC<28, UNLESS OTHERWISE NOTED IN SCHEDULE ABOVE.
- MAXIMUM DESIGN AIRFLOW FOR EACH VAV BOX SHALL NOT EXCEED 80% OF MANUFACTURER'S LISTED MAXIMUM AIRFLOW FOR THAT BOX SIZE, UNLESS OTHERWISE NOTED IN SCHEDULE ABOVE.
- VAV BOXES SHALL HAVE 1" ACOUSTIC LINING.
- 6. VAV BOXES SHALL BE U.L. LISTED AND LABELED.
- VAV BOXES SHALL BE PROVIDED WITH SHEETMETAL CONTROL ENCLOSURE BY TERMINAL MANUFACTURER.
- FURNISH AND INSTALL ALL VAV BOX CONTROLS.

		VRF	SYSTEM - OU	TDOOR COND	ENSING UNIT	SCHEDULE			
INDOOR UNIT DESIGNATION	ACCU-1	ACCU-2	ACCU-3	ACCU-4	ACCU-5	ACCU-6	ACCU-7	ACCU-8	ACCU-9
LOCATION	ROOF								
MODEL	ARUM192BTE5	ARUM168BTE5	ARUM241BTE5	ARUM144BTE5	ARUM144BTE5	ARUM144BTE5	ARUM144BTE5	ARUM144BTE5	ARUM144BTE5
TYPE	HEAT RECOVERY								
UNITS SERVED	SEE RISER								
REFRIGERANT TYPE	R410A								
NOMINAL COOLING / HEATING CAPACITY (MBH)	192/216	168/189	233/243	144/162	144/162	144/162	144/162	144/162	144/162
HEATING CAPACITY @10F (MBH)	216	189	243	162	162	162	162	162	162
No. FANS	2	2	2	2	2	2	2	2	2
No. COMPRESSORS	2	2	2	2	2	2	2	2	2
REFRIGERANT PIPE SIZES	SEE RISER								
VOLTS/Ø/Hz	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60
FLA/MCA/MOCP	52.1/57.9/80	48.3/53.6/70	56.8/63.2/80	46.1/51.1/70	46.1/51.1/70	46.1/51.1/70	46.1/51.1/70	46.1/51.1/70	46.1/51.1/70
EER / IEER	12.4 / 25.9	12.4 / 25.9	12.4 / 25.9	12.4 / 25.9	12.4 / 25.9	12.4 / 25.9	12.4 / 25.9	12.4 / 25.9	12.4 / 25.9
WEIGHT (LBS.)	659	639	666	666	666	666	666	666	666
HEIGHT x WIDTH x LENGTH (INCHES)	66.5 x 29.9 x 48.8								

- UNITS BASED ON LG.
- MECHANICAL CONTRACTOR SHALL PROVIDE BASE PAN HEATER MODEL ZPLT1A52A FOR EACH UNIT. ELECTRICAL CONTRACTOR SHALL INSTALL THE BASE PAN HEATER.
- PROVIDE RUBBER VIBRATION ISOLATION FOR EACH OUTDOOR UNIT
- PROVIDE SYSTEM CONTROLLER MODEL PACS5A000 AC SMART 5 CONTROLLER FOR GRAPHICAL INTERFACE, REMOTE MONITORING AND CONTROL CONDENSING UNIT VRF SYSTEMS SHALL MAINTAIN CONTINUOUS HEATING DURING DEFROST OPERATION. REVERSE CYCLE (COOLING MODE) DEFROST OPERATION SHALL NOT BE PERMITTED DUE TO THE POTENTIAL REDUCTION IN SPACE TEMPERATURE
- MULTIPLE CONDENSING UNIT VRF SYSTEMS SHALL MAINTAIN CONTINUOUS HEATING DURING OIL RETURN OPERATION. REVERSE CYCLE (COOLING MODE) OIL RETURN DURING HEATING OPERATION SHALL NOT BE PERMITTED DUE TO THE POTENTIAL REDUCTION IN
- THE OPERATING RANGE IN COOLING WILL BE 5°F TO 122°F.
- THE OPERATING RANGE IN HEATING WILL BE -22°F TO 61°F
- WARRANTY SHALL BE 10 YEARS PARTS AND 10 YEARS ON THE COMPRESSORS.
- 10. CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL

EQUIPMENT NOTES

- SUPPLY AIR REGISTERS (TYPE A): SHALL BE TITUS MODEL 300FL, ALUMINUM CONSTRUCTION, WITH 3/4" SPACING, DOUBLE DEFLECTION AIRFOIL BLADES, OPPOSED BLADE VOLUME DAMPER IN NECK, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR SURFACE MOUNTING. COORDINATE WITH ARCHITECTURAL PLANS.
- SIDEWALL RETURN AIR REGISTERS (TYPE B): SHALL BE TITUS MODEL 355FL, ALUMINUM CONSTRUCTION, WITH 1/2" SPACING, 35° FIXED DEFLECTION AIRFOIL BLADES, OPPOSED BLADE VOLUME DAMPER IN NECK, SIZE AND CFM AS NOTED IN TABLE ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR SURFACE MOUNTING. COORDINATE WITH REFLECTED CEILING PLANS.
- HEAVY DUTY RETURN GRILLE (TYPE C): SHALL BE TITUS MODEL 30RL. A STEEL HEAVY DUTY RETURN GRILLE WITH 3/8" BLADE SPACING, 0 DEGREE DEFLECTION, BLADES PARALLEL TO LONG DIMENSION. SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. COORDINATE WITH ARCHITECTURAL PLANS.
- SUPPLY CEILING DIFFUSER (TYPE D): SHALL BE TITUS MODEL TMS, STEEL CONSTRUCTION, 24"X24", NECK SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR GRID CEILING MOUNTING. COORDINATE WITH REFLECTED CEILING PLANS.
- EGGCRATE RETURN CEILING GRILLE (TYPE E): SHALL BE TITUS MODEL 50F, ALUMINUM CONSTRUCTION, 24"X24" UNLESS OTHERWISE NOTED. CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR GRID CEILING MOUNTING. COORDINATE WITH RCP.
- OUTDOOR DUCT JACKET: SHALL BE INSULATED AS PER THE SPECIFICATIONS AND COVERED WITH POLYGUARD INSUL-WRAP 50W MEMBRANE FOR WATERPROOF INSULATION JACKET. USE ONLY MATERIALS AND ADHESIVES COMPATIBLE WITH POLYGUARD INSULATION SYSTEM. INSTALL AS PER MANUFACTURERS RECOMMENDATIONS.
- REFRIGERANT PIPE INSULATION: SHALL BE AP ARMAFLEX PIPE INSULATION. 3/4" THICK UNSLIT, TO BE INSTALLED BEFORE FINAL CONNECTION. FIELD FABRICATE FITTING INSULATION WITH MITER-CUTS. ALL BUTT JOINTS AND SEAMS ARE TO BE SEALED WITH | 66-03-02-03-0-002-024 ARMSTRONG 520 ADHESIVE. ALL INSULATION INSTALLED OUTDOORS SHALL BE COATED WITH ARMSTRONG ARMAFLEX FINISH, AS PER THE MANUFACTURERS RECOMMENDATIONS.
- 8. PIPE INSULATION JACKETING FOR INDOOR EXPOSED PIPES: SHALL BE WHITE ZESTON 2000 PVC COVERS FOR PIPING AND FITTINGS. JACKET ALL PIPING AND FITTING THAT ARE EXPOSED IN ANY ROOM. JACKET ALL PIPING EXPOSED TO VIEW IN CLASSROOMS. EQUIPMENT ROOMS ETC.
- DOMESTIC COLD & HOT WATER PIPING: COPPER TYPE L ACCORDING TO STANDARD ASTM B88 WITH 95/5 SOLDERED FITTINGS ACCORDING TO STANDARD ASME B16.9. PIPING SHALL BE INSULATED WITH 1-1/2" THICK GLASS FIBER INSULATION WITH A K VALUE OF 0.23 AT 75°F, NON COMBUSTIBLE, AND A MINIMUM DENSITY OF 3.5 LBS/CU FT.
- 10. SANITARY PIPING: CAST IRON ACCORDING TO STANDARD ASTM A888 AND CISPI 301 WITH HUBLESS COUPLINGS ACCORDING TO STANDARD CISPI 310 AND ASTM C-1277.

ADD ALTERNATE NOTES

ADD ALTERNATE #1

THE CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE PRICE FOR THE FULL INSTALLATION OF THE FOLLOWING SYSTEMS INCLUDING ALL RELATED INDOOR HEAT PUMP UNITS, REFRIGERANT AND CONDENSATE PIPING, DUCTWORK AND ACCESSORIES, REGISTERS, POWER, FIRE ALARM AND CONTROLS & ANY & ALL DEMOLITION & PATCHING. COORDINATE

WITH ARCHITECTURAL AND ELECTRICAL PLANS DOAS UNIT #3, #4, #5 AND ASSOCIATED ACCUS #6, #7, #8

VRF SYSTEMS ACCUs #2 & #3 AND ALL ASSOCIATED INDOOR HEAT PUMP UNITS

ADD ALTERNATE #2

THE CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE PRICE FOR THE FULL INSTALLATION OF THE FOLLOWING SYSTEMS INCLUDING ALL RELATED INDOOR HEAT PUMP UNITS, REFRIGERANT AND CONDENSATE PIPING, DUCTWORK AND ACCESSORIES, REGISTERS, POWER, FIRE ALARM AND CONTROLS & ANY & ALL DEMOLITION & PATCHING. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL PLANS.

DOAS UNIT #1 & #2 AND ASSOCIATED ACCUS #4 & #5

VRF SYSTEM ACCU #1 AND ALL ASSOCIATED INDOOR HEAT PUMP UNITS

TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



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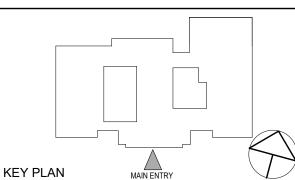
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1 03/31/2022 ISSUED FOR BID

Sheet Title **SCHEDULES & EQUIPMENT** NOTES

NKGD0239.00 09/10/2021 Drawn / Checked AS NOTED NW / RS

Sheet Number

Date

VRF SYSTEM - INDOOR HEAT PUMP UNIT SCHEDULE INDOOR UNIT DESIGNATION AC-1-1 AC-1-3 AC-1-4 AC-1-5 AC-1-7 AC-1-8 AC-1-10 AC-1-11 AC-2-1 AC-2-2 AC-1-2 AC-1-6 AC-1-9 AC-2-3 AC-2-4 AC-2-5 AC-2-6 LG LG MANUFACTURER LG ARNU153TQD4 ARNU153TQD4 ARNU153TQD4 ARNU183TQD4 ARNU183TQD4 ARNU183TQD4 ARNU183TQD4 ARNU183TQD4 ARNU153TQD4 ARNU183TQD4 ARNU183TQD4 ARNU183V1A4 ARNU183V1A4 ARNU183V1A4 ARNU183V1A4 ARNU183V1A4 MODEL ARNU183V1A4 4-WAY CASSETT 1-WAY CASSETTE 4-WAY CASSETTE 4-WAY CASSETTE 4-WAY CASSETT 4-WAY CASSETTE 4-WAY CASSETTE 4-WAY CASSETTE 4-WAY CASSETTE 1-WAY CASSETTE 4-WAY CASSETTE **CEILING SUSPEND** CEILING SUSPEND CEILING SUSPEND CEILING SUSPEND CEILING SUSPEND CEILING SUSPEND COOLING CAPACITY (BTU/HR) 15400 15400 15400 19100 19100 19100 19100 19100 15400 19100 19100 19100 19100 19100 19100 19100 HEATING CAPACITY (BTU/HR) 17100 17100 17100 21500 17100 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 REFRIGERANT TYPE R410A CFM (LOW/MED/HIGH) 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 VOLTS/Ø/Hz 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 MCA (AMPS) 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 0.25 1.21 1.21 1.21 1.21 1.21 1.21 MOCP (AMPS) 15 15 15 15 15 15 15 15 15 15 15 15 15 AC-2-8 AC-2-9 AC-2-11 AC-3-1 AC-3-2 AC-3-3 AC-3-4 AC-3-6 AC-3-7 AC-3-8 AC-3-9 AC-3-10 AC-3-11 AC-3-12 AC-3-14 AC-3-15 AC-2-7 AC-2-10 AC-3-5 AC-3-13 LG ARNU183V1A4 **CEILING SUSPEND CEILING SUSPEND** CEILING SUSPEND **CEILING SUSPEND** CEILING SUSPEND **CEILING SUSPEND** CEILING SUSPEND CEILING SUSPEND **CEILING SUSPEND** EILING SUSPEND CEILING SUSPEND CEILING SUSPEND **CEILING SUSPEND** CEILING SUSPEND **CEILING SUSPEND** CEILING SUSPEND **CEILING SUSPEND** CEILING SUSPEND CEILING SUSPEND **CEILING SUSPEND** 19100 19100 19100 19100 19100 19100 19100 19100 19100 19100 19100 19100 19100 19100 19100 19100 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 21500 R410A 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 424/441/477 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 208/1/60 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 1.21 15 15 15 15 15 15

- PROVIDE MULTISITE CRC1 CONTROLLER MODEL #PREMTBVC0 FOR EACH UNIT. CONTROLLER HAS DIGITAL DISPLAY AND IS BACNET COMPATIBLE.
- INTEGRAL CONDENSATE PUMP CAPABLE OF 27" LIFT. CONDENSATE DRAIN PIPE SIZE SHALL BE 3/4" FOR ALL UNITS.
- PROVIDE GRILLE KIT FOR EACH 4-WAY CEILING CASSETTE. PROVIDE AUXILIARY HEATER KIT - PRARH1 FOR ALL UNITS SHOWN ON PLAN TO CONTROL AN EXISTING HOT WATER CONTROL VALVE.
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DE	EDICATED OUTS	SIDE AIR SYSTEI	M WITH ENERG	Y RECOVERY S	CHEDULE	
DESIGNATION	DOAS-1	DOAS-2	DOAS-3	DOAS-4	DOAS-5	DOAS-6
LOCATION	ROOF	ROOF	ROOF	ROOF	ROOF	ROOF
AREA SERVED	SCIENCE CLASSROOMS	SCIENCE CLASSROOMS	OLD CLASSROOMS	OLD CLASSROOMS	OLD CLASSROOMS	CAFETERIA
MANUFACTURER	LG	LG	LG	LG	LG	LG
MODEL	ARND30UDBE4	ARND30UDBE4	ARND30UDBE4	ARND30UDBE4	ARND30UDBE4	ARND30UDBE4
WEIGHT (LBS)	2,326	2,326	2,326	2,326	2,326	2,326
WEIGHT OF ROOF CURB (LBS)						
DESIGN DATA:						
SUPPLY AIR (CFM)	3000	2550	2970	2450	2180	3000
OUTDOOR AIR (CFM)	3000	2550	2970	2450	2180	3000
RETURN AIR (CFM)	3000	2550	2970	2450	2180	3000
EXHAUST (CFM)	3000	2550	2970	2450	2180	3000
SUMMER OA TEMP (°F) DB/WB	92/74	92/74	92/74	92/74	92/74	92/74
SUMMER RA TEMP (°F) DB/WB	75/62	75/62	75/62	75/62	75/62	75/62
WINTER OA TEMP (°F)	10	10	10	10	10	10
WINTER RA TEMP (°F)	70	70	70	70	70	70
SUPPLY FAN MODULE:		1	1	1	1	1
AIRFLOW (CFM)	3000	2550	2970	2450	2180	3000
HP	10	10	10	10	10	10
RPM	2352	2352	2352	2352	2352	2352
ESP/TSP (IN H₂O)	2/4.6	2/4.6	2/4.6	2/4.6	2/4.6	2/4.6
EXHAUST FAN MODULE:			<u> </u>		<u> </u>	<u> </u>
AIRFLOW (CFM)	3000	2550	2970	2450	2180	3000
	10	10	10	10	10	10
RPM	2352	2352	2352	2352	2352	2352
ESP/TSP (IN H ₂ O)	2/4.6	2/4.6	2/4.6	2/4.6	2/4.6	2/4.6
ENERGY RECOVERY MODULE - ENTHALPY WHEEL TYP			<u> </u>	1	<u> </u>	
SUMMER E.A.T. (°F) DB/WB	92/74	92/74	92/74	92/74	92/74	92/74
SUMMER L.A.T. (°F) DB/WB	79.2/66	79.2/66	79.2/66	79.2/66	79.2/66	79.2/66
SUMMER RECOVERY SEN./TOT (MBH)	41.7/94.5	35.4/80.3	41.3/93.5	34.0/77.2	30.3/68.7	41.7/94.5
WINTER E.A.T./L.A.T. (°F)	10/44	10/44	10/44	10/44	10/44	10/44
WINTER RECOVERY (MBH)	110.7	94.1	109.6	90.4	80.4	110.7
MOTOR HP	10.7	10	109.6	10	10	10.7
SSP/TSP (IN H₂O)	2/4.6	2/4.6	2/4.6	2/4.6	2/4.6	2/4.6
DX COOLING COIL:	2/4.0	2/4.0	2/4.0	2/4.0	2/4.0	2/4.0
E.A.T. (°F) DB/WB	79.2/66	79.2/66	79.2/66	79.2/66	79.2/66	79.2/66
A.T. (°F) DB/WB	55/55	55/55	55/55	55/55	55/55	55/55
CAPACITY (MBH) SENS./TOTAL	78.8/105.3	67.0/89.5	78.0/104.2	64.4/86.0	57.3/76.6	78.8/105.3
HOT GAS REHEAT COIL:	70.0/103.3	01.0109.5	70.0/104.2	04.4/00.0	37.3/10.0	78.6/103.3
E.A.T./L.A.T. (°F)	55/70	55/70	55/70	55/70	55/70	55/70
. ,						
CAPACITY (MBH)	48.8	41.5	48.3	43.9	35.8	48.8
DX COIL (ASHP - HEATING MODE)		·	1			
E.A.T./L.A.T. (°F) (WITH ENERGY RECOVERY)	44/75	44/75	44/75	44/75	44/75	44/75
CAPACITY (MBH) (WITH ENERGY RECOVERY)	100.9	85.8	100.0	82.4	73.2	100.9
E.A.T./L.A.T. (°F) (WITHOUT ENERGY RECOVERY)	10/54	10/61	10/54	10/64	10/70	10/54
CAPACITY (MBH) (WITHOUT ENERGY RECOVERY)	142.7	142.7	142.7	142.7	142.7	142.7
ILTER:	OII MEDVO	OF MEDV C	OIL MEDIA C	OIL MEDIA C	OIL MEDI / O	OIL MEDIA C
QUANTITY/SIZE	2" MERV 8 (2) 25X20 RETURN AIR (2) 25X25 OUTDOOR AIR (4) 25X20 SUPPLY AIR	2" MERV 8 (2) 25X20 RETURN AIR (2) 25X25 OUTDOOR AIR (4) 25X20 SUPPLY AIR	2" MERV 8 (2) 25X20 RETURN AIR (2) 25X25 OUTDOOR AIR (4) 25X20 SUPPLY AIR	2" MERV 8 (2) 25X20 RETURN AIR (2) 25X25 OUTDOOR AIR (4) 25X20 SUPPLY AIR	2" MERV 8 (2) 25X20 RETURN AIR (2) 25X25 OUTDOOR AIR (4) 25X20 SUPPLY AIR	2" MERV 8 (2) 25X20 RETURN AIF (2) 25X25 OUTDOOR AI (4) 25X20 SUPPLY AIR
SINGLE POINT POWER CONNECTION:		l	ı	ı	1	1
/OLTS/Ø/Hz	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60
MCA/MOCP (AMPS)	24.8/35	24.8/35	24.8/35	24.8/35	24.8/35	24.8/35

- 1. EACH PACKAGED UNIT INCLUDES THE FOLLOWING COMPONENTS:
- RETURN PLENUM WITH SIDE INLET OR BOTTOM INLET (SEE PLANS). EXHAUST FAN WITH DISCHARGE OUTLET.
- ENERGY RECOVERY W/ ENTHALPY WHEEL AND OAI HOODS.
- FLAT FILTER MODULE FOR OUTSIDE AIR AND EXHAUST AIR. • DX COIL WITH AIR SOURCE HEAT PUMP COIL AND HOT GAS REHEAT COIL.
- SUPPLY FAN AND DISCHARGE PLENUM WITH SIDE OUTLET OR BOTTOM OUTLET (SEE PLANS).
- FLAT FILTER FOR SUPPLY AIR.
- UNIT SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.
- SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT. PROVIDE FACTORY INSTALLED, UNIT-MOUNTED, NON-FUSED LOCAL DISCONNECT SWITCH.
- EACH UNIT SHALL BE CONNECTED TO THE PACS5A000 AC SMART 5 CONTROLLER FOR GRAPHICAL INTERFACE, REMOTE MONITORING AND CONTROL.
- EXTRA FILTER SET FOR EACH UNIT. CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL..

PACKAGED ROOFTOP AC UNIT SCHEDULE

DESIGNATION	RTU-1	RTU-2
LOCATION	ROOF	ROOF
AREA SERVED	LIBRARY	LIBRARY OFFICES
MANUFACTURER	CARRIER	CARRIER
MODEL	50LC0B14A3A5-1R5A0	50FCQA04A2A5-0F5C0
NOMINAL CAPACITY (TONS)	12.5	3
WEIGHT OF UNIT (LBS)	2234	570
WEIGHT OF ROOF CURB (LBS)	240	115
EER	12.40	14.30 SEER
DESIGN DATA:		
SUPPLY AIR (CFM)	5300	900
OUTDOOR AIR (CFM)	1300	130
RETURN AIR (CFM)	4000	770
SPILL AIR (CFM)	575	0
SUMMER OA TEMP (°F) DB/WB	92/74	92/74
SUMMER RA TEMP (°F) DB/WB	75/62	75/62
WINTER OA TEMP (°F)	10	10
WINTER RA TEMP (°F)	68	68
CONDENSER:		
COMPRESSOR No./TYPE	2	1
REFRIGERANT TYPE	R-410A	R-410A
No. OF REFRIGERANT CIRCUITS	1	1
No. OF FANS	3	1
FLA (AMPS) EA.	1.3	1.5
AMBIENT TEMP. (°F)	92	92
FILTERS:	<u> </u>	
OA-FILTER (QTY / SIZE)	4 / 16X25X1	1 / 20X24X1
MAIN FILTER ((QTY / SIZE)	6 / 20X25X2	2 / 16X25X2
EVAPORATOR COIL:		
E.A.T. (°F) DB/WB	80.7/64.9	79.3/63.8
L.A.T. (°F) DB/WB	55/55	55/55
SENS./TOTAL CAPACITY (MBH)	147.7/164.5	26.4/27.0
HEATING:	DUCT STEAM COIL (SC-1) (SEE BELOW)	HEAT PUMP
CAPACITY (MBH)	180	13
E.A.T./L.A.T. (°F)	53.8/85.0	59.3/72
SUPPLY FAN:	•	
CFM	5300	1000
ESP/TSP (IN H₂O)	1.5	0.8
BHP/HP	2.86 BHP	0.41
RPM	942	1771
STARTER TYPE	VFD	HOA
ELECTRICAL DATA - SINGLE POINT POWER	R CONNECTION:	
VOLTS/Ø/Hz	208/3/60	208/3/60
MCA/MOCP (AMPS)	76.5/90	42/45
ENERGY PERFORMANCE	•	
EER	12.6	14.3
IEER	19.3	-

- 1. PROVIDE THE FOLLOWING OPTIONS FOR ALL UNITS:
- HIGH STATIC DRIVE MOTOR. COORDINATE LEFT/RIGHT HAND FAN DRIVE IN FIELD.
- 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL AND ECONOMIZER HOOD.
- FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT. • UNIT SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.
- PROVIDE 4" FIELD INSTALLED FILTER SECTION WITH HINGED ACCESS DOOR AND PROVIDE MERV 10 FILTERS.
- 2. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR ALL UNITS:
 UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
- ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
- SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT, UNIT-MOUNTED DISCONNECT SWITCH, AND FACTORY INSTALLED MOTOR STARTERS. VAV UNITS SHALL HAVE FACTORY MOUNTED VFD'S WITH H-O-A.
- 3. CONTRACTOR SHALL HIRE THE MANUFACTURER'S INSTALLATION TECHNICIAN FOR INSTALLATION AND STARTUP. PROVIDE STARTUP REPORTS TO THE ENGINEER FOR REVIEW AND APPROVAL.

EQUIPMENT NOTES

STEAM COIL (SC-1) - SHALL BE SIMILAR TO SUPER RADIATOR COILS MODEL 40X24-1R-0.625/120. UNIT SHALL BE 40X24 AND CAPABLE OF 180MBH HEATING CAPACITY WITH A STEAM PRESSURE OF 5PSI AND 0.13 WC AIR PRESSURE DROP ACROSS THE COIL WITH 5,300 CFM. TUBE MATERIAL SHALL BE COPPER AND FIN MATERIAL SHALL BE ALUMINUM. COORDINATE RIGHT / LEFT HAND COIL CONNECTION IN THE FIELD. REFER TO DETAIL ON M702 FOR PIPING.

ADD ALTERNATE NOTES

ADD ALTERNATE #1

THE CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE PRICE FOR THE FULL INSTALLATION OF THE FOLLOWING SYSTEMS INCLUDING ALL RELATED INDOOR HEAT PUMP UNITS, REFRIGERANT AND CONDENSATE PIPING, DUCTWORK AND ACCESSORIES, REGISTERS, POWER, FIRE ALARM AND CONTROLS & ANY & ALL DEMOLITION & PATCHING. COORDINATE WITH ARCHITECTURAL AND ELECTRICAL PLANS.

DOAS UNIT #3, #4, #5 AND ASSOCIATED ACCUS #6, #7, #8

VRF SYSTEMS ACCUs #2 & #3 AND ALL ASSOCIATED INDOOR HEAT PUMP UNITS

ADD ALTERNATE #2

THE CONTRACTOR SHALL PROVIDE AN ADD ALTERNATE PRICE FOR THE FULL INSTALLATION OF THE FOLLOWING SYSTEMS INCLUDING ALL RELATED INDOOR HEAT PUMP UNITS, REFRIGERANT AND CONDENSATE PIPING, DUCTWORK AND ACCESSORIES, REGISTERS, POWER, FIRE ALARM AND CONTROLS & ANY & ALL DEMOLITION & PATCHING. COORDINATE WITH ARCHITECTURAL

AND ELECTRICAL PLANS. DOAS UNIT #1 & #2 AND ASSOCIATED ACCUs #4 & #5

VRF SYSTEM ACCU #1 AND ALL ASSOCIATED INDOOR HEAT PUMP UNITS

TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



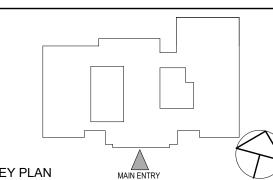


Hawthorne, NY 10532

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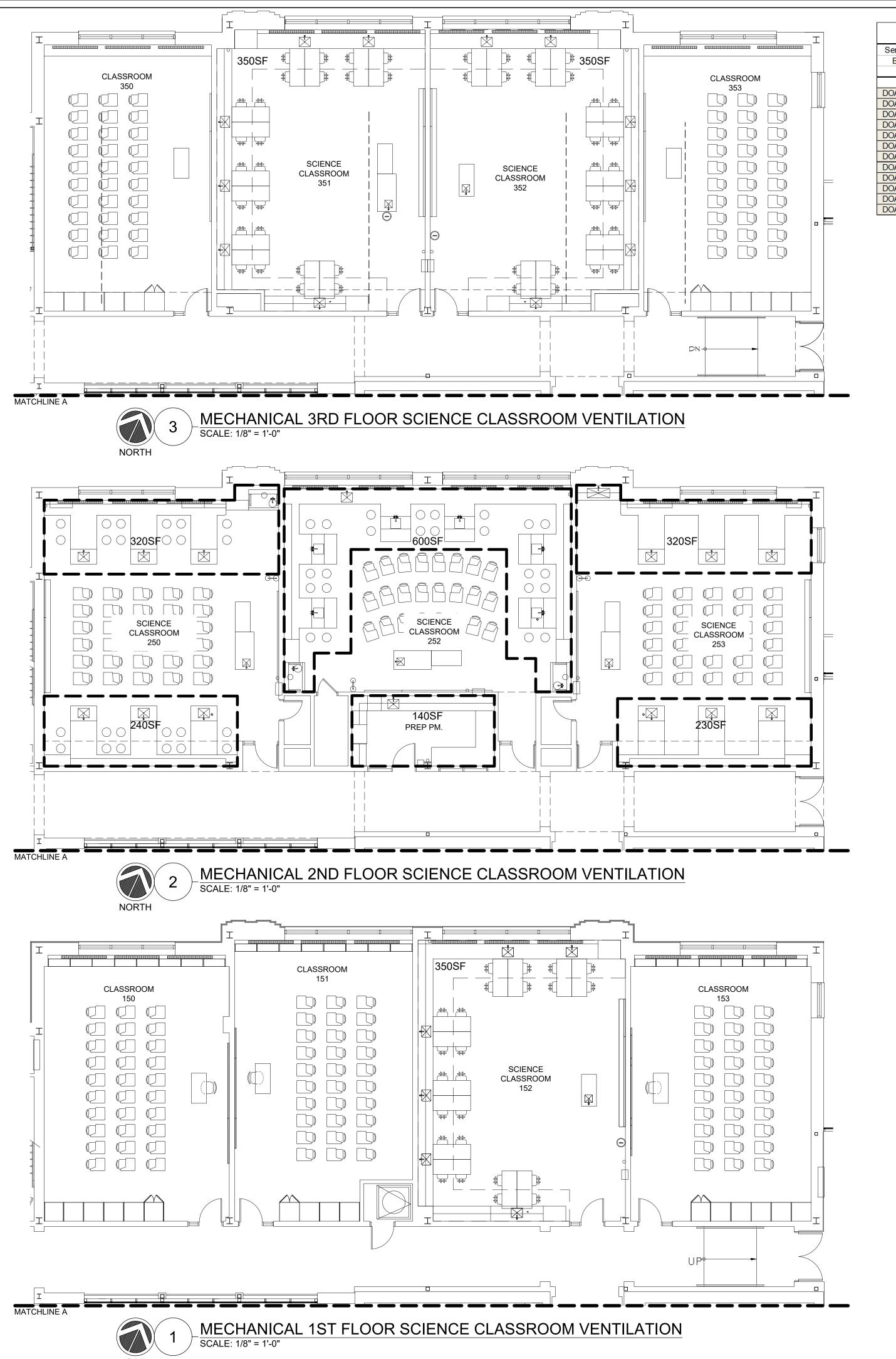
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SCHEDULES

Job No.	Date
NKGD0239.00	09/10/2021
Scale	Drawn / Checked
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Code OA Pers./1000 No. of OA CFM / OA CFM / Dist EA CFM / CFM CFM / (sq.ft.) Category Type CFM Pers. sq.ft. DOAS-1 151 CLASSROON 950 Education Classroom 415.0 DOAS-1 152 CLASSROON 1040 Education Science 450.0 DOAS-1 153 CLASSROON 870 Education Classroom DOAS-1 250 CLASSROON 1120 Education Science DOAS-2 251 PREP ROOM 140 Education Science DOAS-1 253 CLASSROON 1150 Education Science DOAS-2 350 CLASSROON 800 Education Classroom DOAS-2 351 CLASSROON 1020 Education Science 0.18 1.0 350.0 350.0 0.4 100% 350 344 0.43 0.18 1.0 1.0 350.0 350.0 450.0 0.4 100% 450 434 0.43 0.18 1.0 1.0 350.0 350.0 450.0 0.4 100% 450 434 0.43 0.18 1.0 1.0 350.0 350.0 450.0 0.4 100% 450 434 0.43 DOAS-2 352 CLASSROON 1020 Education Science 25 25 10 0.18 1.0 DOAS-2 353 CLASSROON 800 Education Classroom 25 20 10 0.18 1.0 350.0 350.0 0.4 100% 350 344 0.43

Ventilation Index - DOAS-1 & DOAS-2 Classrooms

						Ventilatio	n Index -	DOAS-3, D	OAS-4, DO	DAS-5 OLD	Classroon	าร					
Served	Room	Room Name	Area	Occupan	су Туре		C	ode		Distributio	Desig	ın SA	EA	Design	ı OA	Code	e OA
Ву	No.		(sq.ft.)	Category	Type	Pers./1000	No. of	OA CFM /	OA CFM	n n	CFM	CFM /	CFM	%	CFM	CFM	CFM /
						sq.ft.	Occ.	Pers.	sq.ft.	Effectivne		sq.ft.		w/o Div.			sq.ft.
DOAS-3	112	CLASSROON	690	Education	Classroom	35	25	10	0.12	1.0	350.0	0.5	350.0	100%	350	333	0.48
DOAS-3	113	CLASSROON	715	Education	Classroom	35	26	10	0.12	1.0	350.0	0.5	350.0	100%	350	346	0.48
DOAS-4	202	CLASSROON	630	Education	Classroom	35	23	10	0.12	1.0	310.0	0.5	310.0	100%	310	306	0.49
DOAS-4	202B	CLASSROON	380	Education	Classroom		14	10	0.12	1.0	200.0	0.5	200.0	100%	200	186	0.49
DOAS-4	203	CLASSROON	540	Education		35	19	10	0.12	1.0	260.0	0.5	260.0	100%	260	255	0.47
DOAS-4	203A	CLASSROON	700	Education	Classroom	35	25	10	0.12	1.0	350.0	0.5	350.0	100%	350	334	0.48
DOAS-4	204	CLASSROON	525	Education	Classroom	35	19	10	0.12	1.0	260.0	0.5	260.0	100%	260	253	0.48
DOAS-5	210	CLASSROON	455	Education	Classroom		16	10	0.12	1.0	230.0	0.5	230.0	100%	230	215	0.47
DOAS-5	211	CLASSROON	665	Education	Classroom	35	24	10	0.12	1.0	350.0	0.5	350.0	100%	350	320	0.48
DOAS-5	212	CLASSROON	580	Education	Classroom	35	21	10	0.12	1.0	300.0	0.5	300.0	100%	300	280	0.48
DOAS-5	205	CLASSROON	275	Education	Classroom	35	10	10	0.12	1.0	150.0	0.5	150.0	100%	150	133	0.48
DOAS-3	206	CLASSROON	715	Education	Classroom	35	26	10	0.12	1.0	350.0	0.5	350.0	100%	350	346	0.48
DOAS-3	207	CLASSROON	560	Education	Classroom		20	10	0.12	1.0	270.0	0.5	270.0	100%	270	267	0.48
DOAS-3	208	CLASSROON	680	Education	Classroom		24	10	0.12	1.0	325.0	0.5	325.0	100%	325	322	0.47
DOAS-3	209	CLASSROON	660	Education	Classroom	35	24	10	0.12	1.0	325.0	0.5	325.0	100%	325	319	0.48
DOAS-4	301	CLASSROON	315	Education	Classroom		12	10	0.12	1.0	170.0	0.5	170.0	100%	170	158	0.50
DOAS-4	302	CLASSROON	380	Education	A CHARLEST AND AND AND ADDRESS.	35	14	10	0.12	1.0	200.0	0.5	200.0	100%	200	186	0.49
DOAS-4	303	CLASSROON	900	Education	Classroom		32	10	0.12	1.0	450.0	0.5	450.0	100%	450	428	0.48
DOAS-4	304	CLASSROON	500	Education	Classroom		18	10	0.12	1.0	250.0	0.5	250.0	100%	250	240	0.48
DOAS-5	312	CLASSROON	500	Education	Classroom	35	18	10	0.12	1.0	250.0	0.5	250.0	100%	250	240	0.48
DOAS-5	313	CLASSROON	700	Education		35	25	10	0.12	1.0	350.0	0.5	350.0	100%	350	334	0.48
DOAS-5	314	CLASSROON	380	Education	Classroom	35	14	10	0.12	1.0	200.0	0.5	200.0	100%	200	186	0.49
DOAS-5	309	CLASSROON	715	Education	Classroom		26	10	0.12	1.0	350.0	0.5	350.0	100%	350	346	0.48
DOAS-3	308	CLASSROON	780	Education	Classroom		28	10	0.12	1.0	375.0	0.5	375.0	100%	375	374	0.48
DOAS-3	310	CLASSROON	490	Education	Classroom	35	18	10	0.12	1.0	250.0	0.5	250.0	100%	250	239	0.49

							Vent	ilation Inde	ex - RTU-1	Library							
Served	Room	Room Name	Area	Occupan	су Туре		C	ode		Distributio	Desig	n SA	EA	Design	OA	Code	e OA
Ву	No.		(sq.ft.)	Category	Туре	Pers./1000	No. of	OA CFM /	OA CFM /	n	CFM	CFM /	CFM	%	CFM	CFM	CFM /
						sq.ft.	Occ.	Pers.	sq.ft.	Effectivne		sq.ft.		w/o Div.			sq.ft.
RTU-1		LIBRARY	3,124	PUBLIC SI	Libraries	10	31	5.0	0.12	8.0	3,000.0	1.0	0.0	25%	736	664	0.21
RTU-1		MEDIA	495	EDUCATIO	Media	25	12	10.0	0.12	8.0	1,000.0	2.0	0.0	25%	245	229	0.46
RTU-1		CORRIDOR	265	PUBLIC SI	Corridor	0	0	0.0	0.06	0.8	300.0	1.1	0.0	25%	74	20	0.08

Ventilation Index - DOAS-6 Cafeteria

sq.ft. Effectivne

Pers./1000 No. of OA CFM / OA CFM / n

Occ. Pers.

(sq.ft.)

Category

				1		V	entilation	Index - R	TU-2 Office	es & Vestib	ule						
Served															e OA		
Ву	No.		(sq.ft.)	Category	Type	Pers./1000	No. of	OA CFM /	OA CFM /	n	CFM	CFM /	CFM	%	CFM	CFM	CFM /
						sq.ft.	Occ.	Pers.	sq.ft.	Effectivne		sq.ft.		w/o Div.			sq.ft.
RTU-2		OFFICE	98	OFFICE	Office	5	0	5.0	0.06	0.8	125.0	1.3	0.0	13%	16	10	0.11
RTU-2		OFFICE	137	OFFICE	Office	5	1	5.0	0.06	8.0	150.0	1.1	0.0	13%	20	15	0.11
RTU-2		OFFICE	135	OFFICE	Office	5	1	5.0	0.06	8.0	150.0	1.1	0.0	13%	20	14	0.11
RTU-2	·	OFFICE	115	OFFICE	Office	5	1	5.0	0.06	0.8	125.0	1.1	0.0	13%	16	12	0.11
RTU-2		OFFICE	135	OFFICE	Office	5	1	5.0	0.06	8.0	150.0	1.1	0.0	13%	20	14	0.11

TUCKAHOE MIDDLE/HIGH SCHOOL

ALTERATIONS
TUCKAHOE UNION FREE
SCHOOL DISTRICT

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Code OA

sq.ft.

CFM CFM /

CFM

CFM

CFM /

sq.ft.

OLA Consulting Engineers
50 Broadway,
Hawthorne, NY 10532
914.747.2800

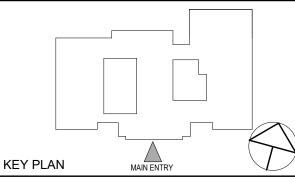
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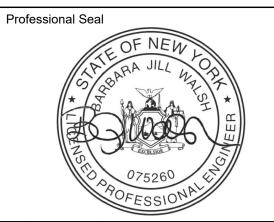
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VENTILATION SCHEDULES

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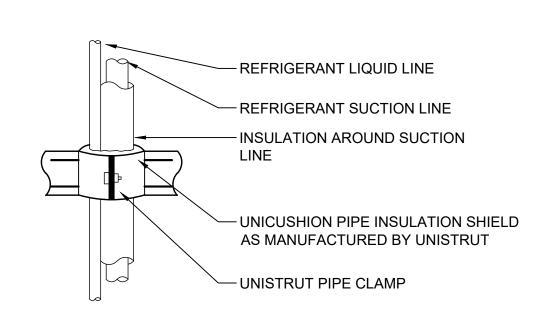
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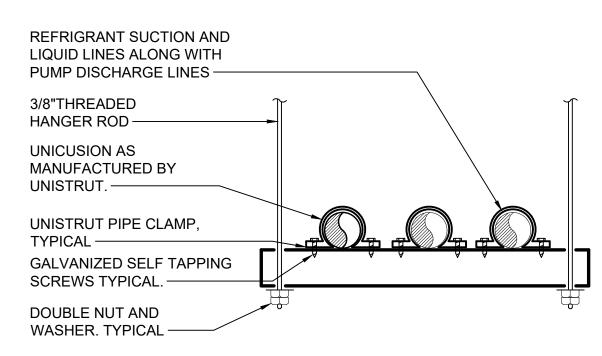
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M603

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- LIQUID AND SUCTION LINES MAY BE ROUTED TOGETHER FOR CONVENIENCE BUT MUST BE COMPLETELY INSULATED FROM EACH OTHER. DO NOT SOLDER LIQUID AND SUCTION LINES TOGETHER. DO NOT ALLOW METAL TO METAL CONTACT.
- 2. LINES SHOULD BE INSTALLED WITH AS FEW BENDS AS POSSIBLE, ALLOWING SERVICE ACCESS TO THE INDOOR COIL.
- USE LONG RADIUS ELBOWS WHEREVER POSSIBLE, EXCEPT IN OIL RETURN
- TRAPS, WHERE SHORT RADIUS ELBOWS SHOULD BE USED. 4. SLOPE HORIZONTAL SUCTION LINES 1 INCH EVERY 20 FEET TOWARD THE OUTDOOR UNIT.

REFRIGERANT PIPE SUPPORT DETAIL



CHANNELS TO STACK REFRIGERANT PIPING. C-SERIES CHANNEL SUPPORT, 100% RECYCLED RUBBER, BY B-LINE C-PORT. 14 GA. **GALVANIZED STEEL CHANNEL** COORDINATE EXACT LENGTH REQUIRED IN FIELD. **NEW 4" CONCRETE** HOUSEKEEPING PAD. GALVANIZED STEEL UNISTRUT PIPE CLAMP -B-LINE ARMAFIX CLAMP INSERT ASSEMBLY. CEMENT PIPE INSULATION TO CLAMP INSERT. -PIPE INSULATION. — C-SERIES CHANNEL SUPPORT 100% RECYCLED RUBBER, BY B-LINE C-PORT. 14 GA. GALVANIZED STEEL CHANNEL COORDINATED EXACT LENGTH REQUIRED IN FIELD. -CONCRETE HOUSEKEEPING PAD.

FIELD OR FACTORY

FABRICATED PIPE

ASSEMBLY -

WOOD NAILER

PREFABRICATED

ROOF INSULATION-

ROOF CURB —

MEMBRANE -

REFER TO

ARCHITECTURAL

PLANS FOR ROOF

CONSTRUCTION.

TYPICAL -

14 GA. GALVANIZED STEEL

ALL BRACKETS, HANGERS, AND FASTENERS SHALL BE GALVANIZED STEEL CLAMP INSERT ASSEMBLY SHALL INCLUDE GALVANIZED STEEL PIPE CLAMP, ARMAFLEX INSULATION WITH PAINTED ALUMINUM JACKET, AND INTERIOR

1. PREFABRICATED ROOF CURB AND BOX ASSEMBLY BASED ON CUSTOM CURB

INC. MODEL CPBA-1 CUSTOM ROOF CURB BOX ASSEMBLY WITH 1.5 INCH

THICK 3.5 POUND RIGID INSULATION, 18 GAGE GALVANIZED STEEL SHELL

OTHER MATERIALS AND LABOR NECESSARY TO ENSURE A WATERTIGHT

CONTRACTOR SHALL PROVIDE ALL FLASHING, COUNTERFLASHING, AND ANY

AND BASE PLATE, AND 0.050 ALUMINUM PIPE BOX.

ROOF PENETRATION ENCLOSURE.

- OUTDOOR DUCT JACKET

- 1" ACOUSTIC LINING

OPENING FOR DUCT

OUTSIDE DIMENSION.

- SEAL PENETRATIONS

COUNTERFLASHING AS

WATER TIGHT WITH

EPDM MEMBRANE

TO WOOD NAILER.

2" RAISED CANT.

SPECIFICATIONS.

FLASHING FASTENED

SUPPORT DUCTWORK

FLASHING AND

REQUIRED.

AS PER

BE WITHIN 1/8" OF

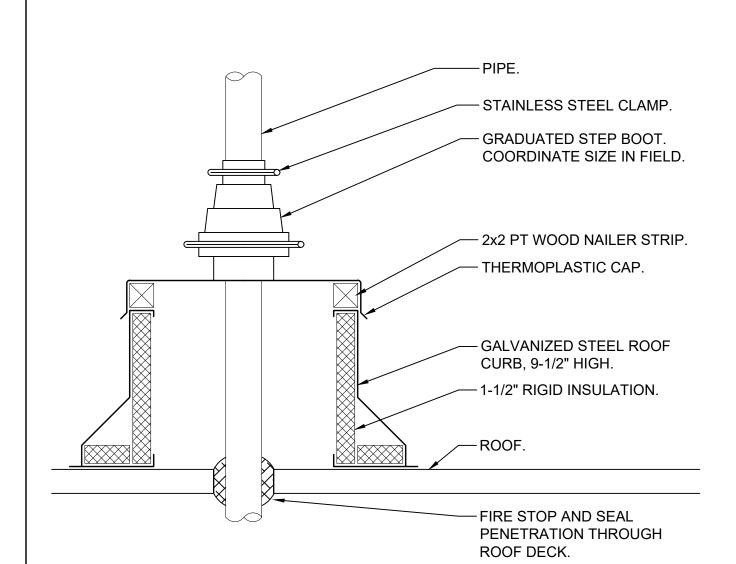
PENETRATIONS SHALL

-INSULATION

-DUCTWORK

CEMENT RUBBER SUPPORT BLOCKS TO HOUSEKEEPING PAD.





1.) PIPE PENETRATION ROOF CURBS SHALL BE PATE MODEL PCA-5, 9-1/2" HIGH. PIPE CURB ASSEMBLY SHALL CONSIST OF 18 GAUGE GALVANIZED STEEL ROOF CURB, UNITARY CONSTRUCTION, WITH INTEGRAL BASE PLATE, 1-1/2" INSULATION, 2x2 TREATED WOOD NAILER, ACRYLIC CLAD THERMOPLASTIC COVER, FASTENING

- SCREWS, & GRADUATED STEP BOOTS WITH STAINLESS STEEL CLAMPS. 2.) CONTRACTOR TO SELECT CAP & BOOT PACKAGE BASED ON QUANTITY & SIZE OF PIPE PENETRATIONS. PROVIDE FLASHING AND COUNTER FLASHING FOR A
- 3.) CURBS SHALL BE CUSTOM FABRICATED, SUCH THAT THE CAP IS MOUNTED LEVEL.
- CONTRACTOR TO VERIFY EXACT ROOF PITCH ANGLE IN FIELD. 4.) COORDINATE QUANTITIES AND SIZES OF PIPE PENETRATIONS IN THE FIELD WITH CAP AND BOOT REQUIREMENTS.

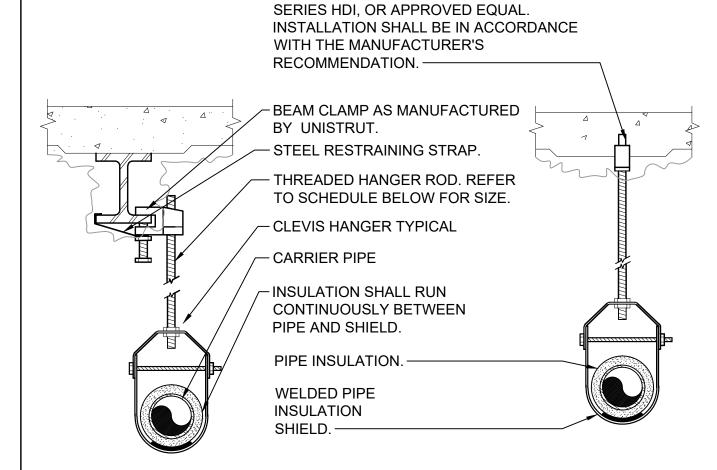
1.) DRAW THRU UNITS; DIMENSION A (DEPTH OF SEAL) SHALL BE 2" MINIMUM AND

2.) BLOW THRU UNITS; DIMENSION A (DEPTH OF SEAL) SHALL BE 1" MINIMUM AND

DIMENSION B SHALL BE 1.2 x THE STATIC PRESSURE OF THE UNIT.

DIMENSION B SHALL BE 2.0 x THE STATIC PRESSURE OF THE UNIT.

ROOF PIPE PENETRATION CURB **ASSEMBLY DETAIL** SCALE: NONE

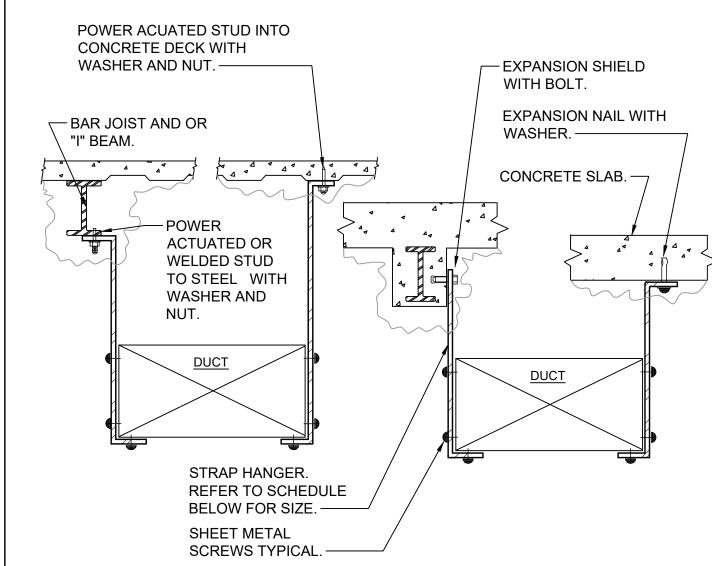


CONCRETE ANCHOR HILTI-KWICK BOLT,

HANG	SER SC	HED	ULE	
			6"	8"-12"
3/8"	1/2"	5/8"	3/4"	7/8"
	3/4"-2"	3/4"-2" 2 1/2"-3"	3/4"-2" 2 1/2"-3" 4"-5"	5/1 2 2 1/2 5 1 5 5

- 1.) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
- 2.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
- 3.) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
- 4.) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK
- 5.) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
- 6.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
- 7.) ANY AREA WITH A CEILING WHICH IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED. REPLACE WIRE LATH AND RE-CEMENT IF REQUIRED.



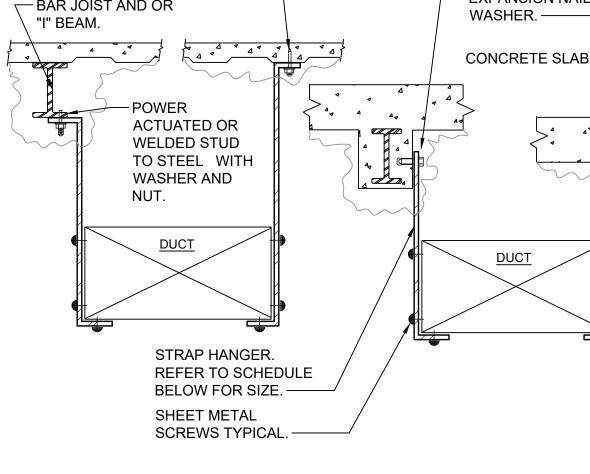


TURNED UNDER THE BOTTOM OF THE DUCT.

FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

HANGER	HANGER STRAP SCHEDULE										
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING									
UP TO 2 SQ. FT.	1" x ½"	8'-0"									
2 SQ. FT. TO 4 SQ. FT.	1" x 1/8"	8'-0"									
4 SQ. FT. TO 10 SQ. FT.	1" x 1/8"	6'-0"									
OVER 10 SQ. FT.	1" x 1/8"	4'-0"									





FOR DUCTS OVER 49" WIDE, THE STRAP HANGER SHALL BE WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE

HANGER	HANGER STRAP SCHEDULE									
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING								
UP TO 2 SQ. FT.	1" x ½"	8'-0"								
2 SQ. FT. TO 4 SQ. FT.	1" x ½"	8'-0"								
4 SQ. FT. TO 10 SQ. FT.	1" x ½"	6'-0"								
OVER 10 SQ. FT.	1" x ½"	4'-0"								



DRAIN PAN.

- A. RETAINING ANGLES SHALL BE A MINIMUM 1-1/2"x1-1/2"x16 GAUGE AND
- MUST OVERLAP THE STRUCTURAL OPENING BY A MINIMUM OF 1". CLEARANCE BETWEEN SLEEVE AND OPENING SHALL BE 1/8" PER LINEAR FOOT, AS PER SMACNA FIG. 2-1.
- C. STEEL SLEEVE SHALL BE AS PER SMACNA TABLE 2-2.
- D. U.L. APPROVED FIRE DAMPER. SECURE RETAINING ANGLES TO SLEEVE ONLY AT 8" CENTERS AS PER SMACNA FIG. 2-1.
- SECURE DAMPER TO SLEEVE AT 8" CENTERS AS PER SMACNA FIG. 2-1. G. CONNECT DUCT TO SLEEVE WITH BREAK-AWAY CONNECTION AS PER SMACNA FIG. 2-2.
- FIRE DAMPERS TO BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A, UL LABELS AND THE LATEST ISSUE OF S.M.A.C.N.A. CHAPTER 2.
- 2. CURTAIN TYPE FIRE DAMPERS SHOWN, MULTI-BLADE PIVOTED FIRE DAMPERS MEETING THE ABOVE STANDARD WILL BE ACCEPTABLE. 3. PROVIDE ACCESS DOORS. INSTALL (1) AD FOR EACH FIRE DAMPER AS PER
- SMACNA FIG. 6-1. 4. FOR DUCT 12" OR LESS IN DEPTH, FIRE DAMPER SHALL BE OUT OF THE AIR STREAM. REFER TO FIGURE 2.

SHUTTER TYPE FIRE DAMPER AND SLEEVE DETAIL

ROOF DUCT BOX DETAIL

AIR CONDITIONING UNIT CONDENSATE DRAIN DETAIL

DRAIN LINE SHALL BE AT LEAST THE

SAME SIZE AS THE NIPPLE ON THE

PITCH DOWN TOWARD DRAIN. -

CLEAN OUT. —

DRAIN PAN, OR 3/4". -

1" GAP —

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MIDDLE/HIGH

SCHOOL

ALTERATIONS

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SCHOOL DISTRICT

65 SIWANOY BLVD

EASTCHESTER, N. Y. 10709

KG+D. ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549

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CONSULTING ENGINEERS

KEY PLAN

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66-03-02-03-0-002-024

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8 West 38th Street,

New York, NY 10018

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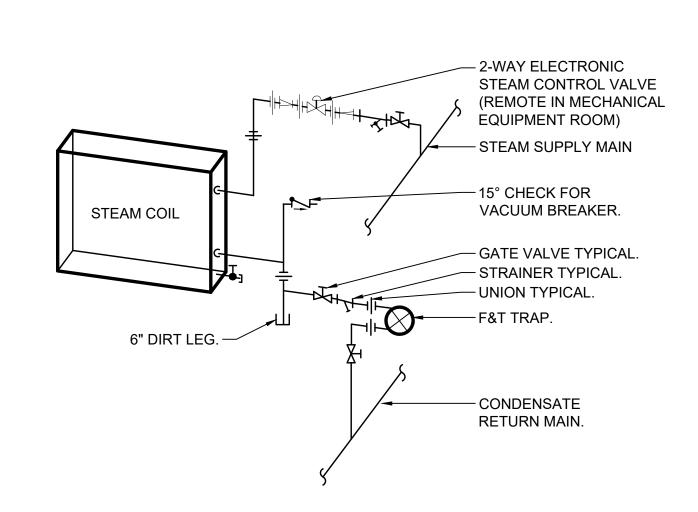
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DETAILS

09/10/2021 NKGD0239.00 Drawn / Checked AS NOTED NW / RS

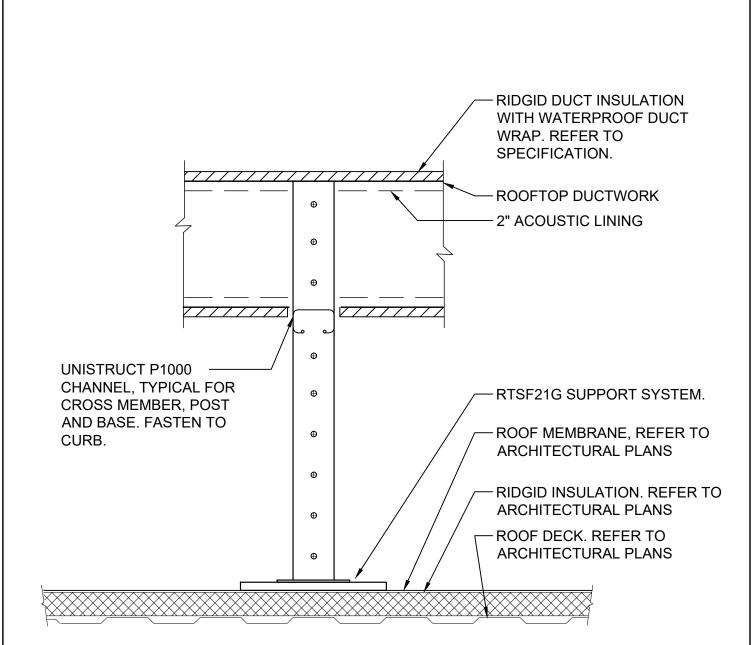
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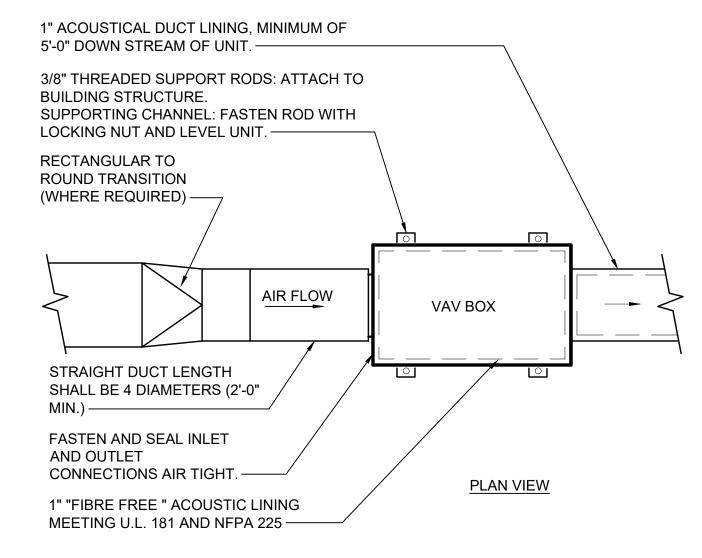
- LOCATE ALL COIL UNIONS CLOSE TO, AND CLEAR OF, COIL. ARRANGE PIPING SO AS NOT TO NOT INTERFERE WITH COIL REMOVAL
- 2. EXPAND DUCTWORK AND TRANSITION TO FULL SIZE OF THE COIL.
- 3. CHECK VALVE IS NECESSARY WHEN MORE THEN ONE UNIT IS CONNECTED TO
- THE RETURN LINE. 4. THE DIRT LEG MAY BE REPLACED BY A STRAINER, OTHERWISE THE DIRT LEG

LPS COIL PIPING SCHEMATIC

SHALL BE THE SAME SIZE AS THE UNIT OUTLET.



- 1.) ROOF DUCT SUPPORT SHALL BE ROOFTOP SUPPORT SYSTEMS RTSF21G, 13-1/2" NOMINAL HEIGHT, MINIMUM LENGTH SHALL BE 48" OR 12" LONGER THAN DUCT WIDTH. 2.) ALL BRACKETS, HANGERS, FASTENERS AND SUPPORTS LOCATED OUTDOORS SHALL BE GALVANIZED OR NICKEL PLATED.
- ROOF DUCT SUPPORT DETAIL



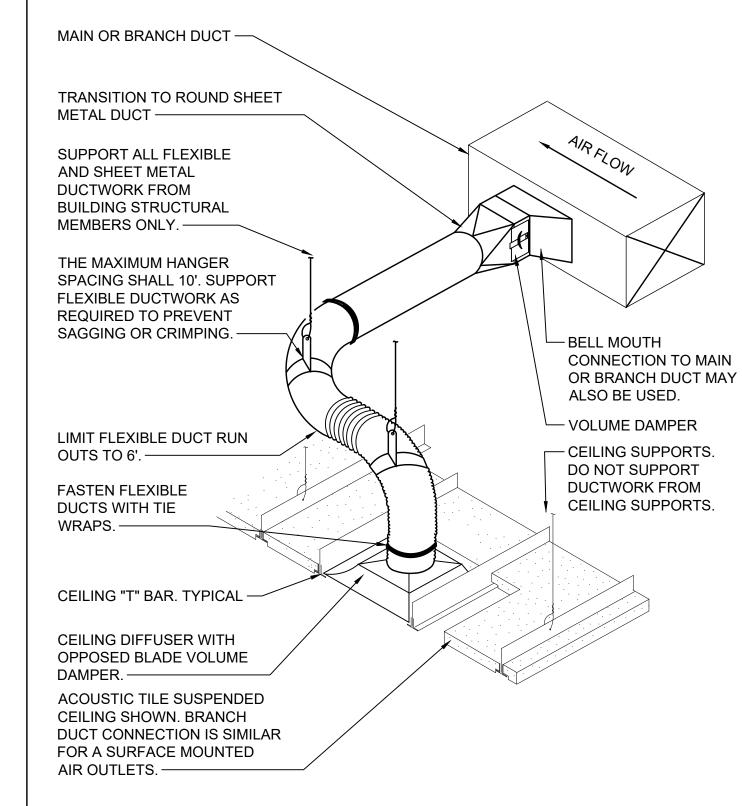
- 1.) THE OPERATION OF VARIABLE VOLUME TERMINAL UNITS ARE AFFECTED BY EXCESSIVE TURBULENCE ON THE ENTERING SIDE OF EACH TERMINAL UNIT. THEREFORE, TERMINAL UNITS MUST NOT BE INSTALLED TO CLOSE TO MAIN DUCTS. **ELBOWS AND FITTINGS.**
- 2.) WHEN MINIMUM UPSTREAM STRAIGHT DUCT CONNECTION TO TERMINALS AS INDICATED ABOVE CANNOT BE MAINTAINED, PROVIDE ORIFICE PLATE, STRAIGHTENING VANES OR OTHER DEVICE AS RECOMMENDED BY TERMINAL UNIT MANUFACTURER AND SUBMIT TO ENGINEER FOR REVIEW PRIOR TO INSTALLATION. 3.) TERMINAL UNITS SHALL BE PROVIDED WITH CONTROLS ON LEFT OR RIGHT SIDE AS REQUIRED BY FIELD CONDITIONS. FOR UNITS WITH ELECTRONIC CONTROLS FURNISH

NEMA 1 RATED ENCLOSURE AND U.L. II TRANSFORMER AND DISCONNECT SWITCH.

ARRANGE ACCESS TO PERMIT EASY FIELD BALANCING AND MAINTENANCE. 5.) COORDINATE THE LOCATION, SIZE, AND QUANTITY OF REQUIRED ACCESS DOORS. INDICATE REQUIREMENT IN SHEET-METAL SHOP DRAWING SUBMITTAL FOR

VARIABLE AIR VOLUME (VAV) **BOX INSTALLATION DETAIL**

COORDINATION WITH G.C.



TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD EASTCHESTER, N. Y. 10709

TUCKAHOE

MIDDLE/HIGH

SCHOOL

ALTERATIONS

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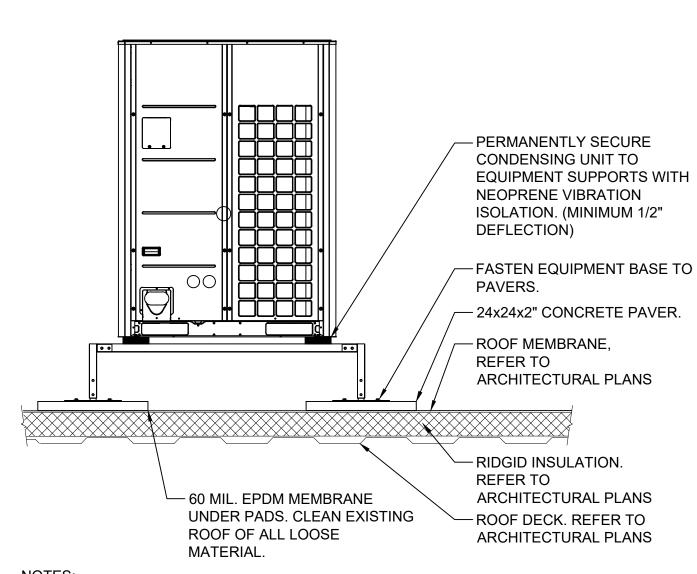
NY SED PROJECT CONTROL NO. 66-03-02-03-0-002-024

CONSTRUCTION **DOCUMENTS**

SLOT DIFFUSERS.

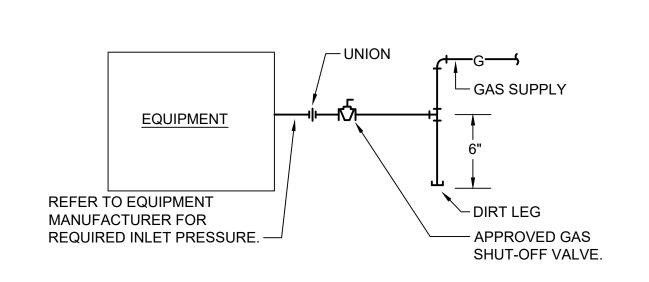


1. THIS BRANCH DUCT ARRANGEMENT IS SIMILAR FOR PLENUM

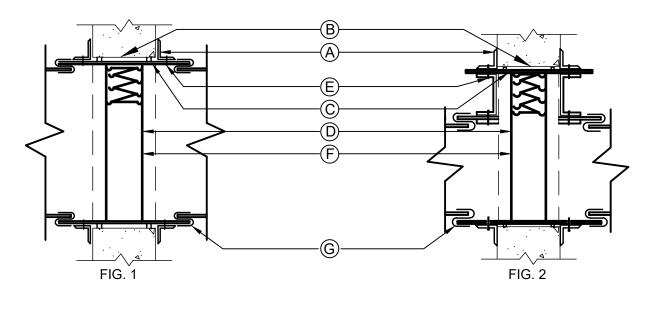


- 1.) EQUIPMENT SUPPORTS SHALL BE QUICK-SLING SUPER STAND, MADE WITH 7-GAUGE STEEL AND 11-GAUGE STEEL TUBING.
- 2.) EACH PIECE OF EQUIPMENT SHALL BE MOUNTED ON CONTINUOUS SUPPORTS. EQUIPMENT SUPPORTS SHALL BE AT LEAST 6" LONGER THAN THE PIECE OF **EQUIPMENT TO BE SUPPORTED.**
- 3.) ALL BRACKETS, HANGERS, AND FASTENERS SHALL BE GALVANIZED STEEL. 4.) CEMENT EQUIPMENT SUPPORT TO ROOF - USE ONLY MATERIALS COMPATIBLE WITH THE ROOFING SYSTEM.

SUPPORT DETAIL FOR CONDENSING **UNITS LOCATED ON ROOF**





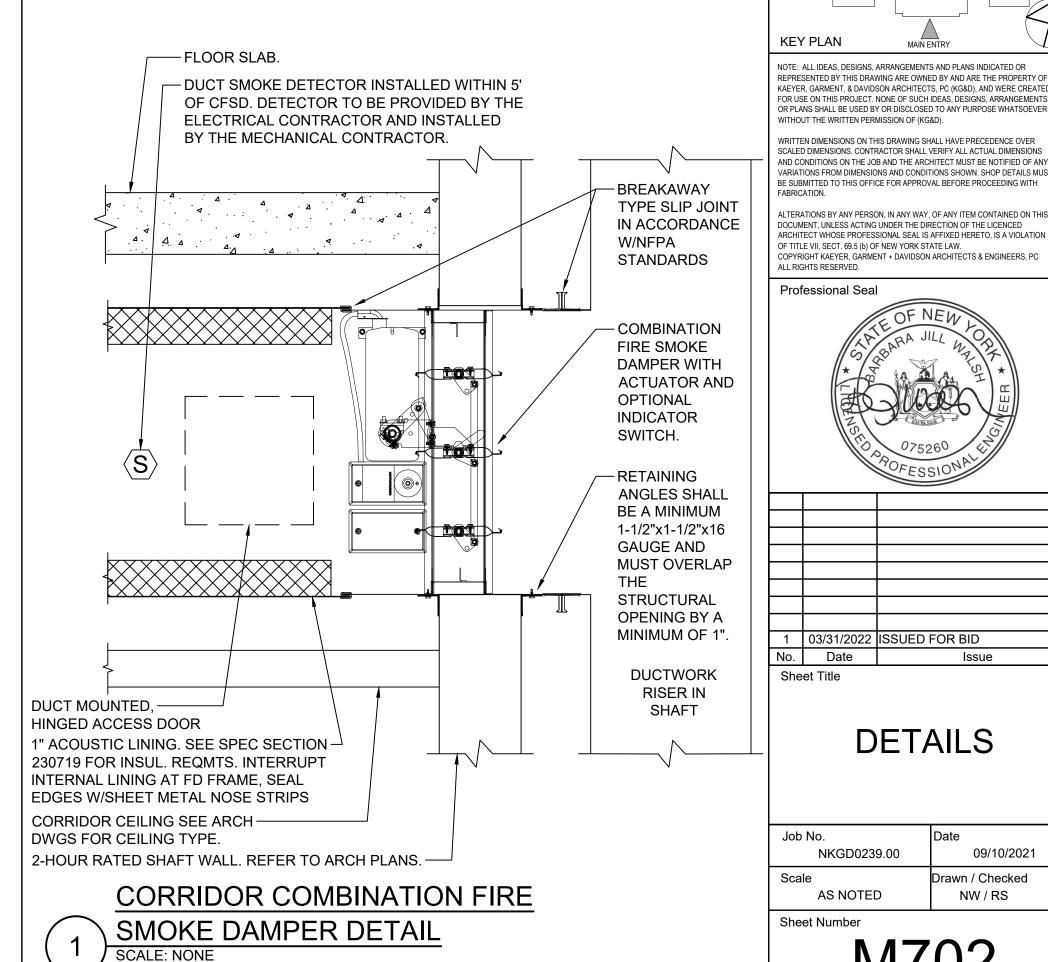


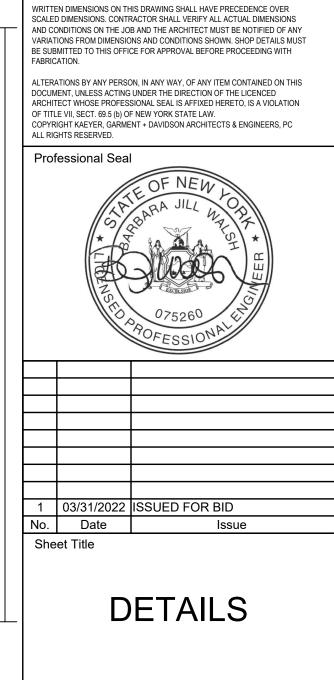
- A. RETAINING ANGLES SHALL BE A MINIMUM 1-1/2"x1-1/2"x16 GAUGE AND
- MUST OVERLAP THE STRUCTURAL OPENING BY A MINIMUM OF 1". CLEARANCE BETWEEN SLEEVE AND OPENING SHALL BE 1/8" PER LINEAR FOOT, AS PER SMACNA FIG. 2-1.
- C. STEEL SLEEVE SHALL BE AS PER SMACNA TABLE 2-2. D. U.L. APPROVED FIRE DAMPER.
- SECURE RETAINING ANGLES TO SLEEVE ONLY AT 8" CENTERS AS PER SMACNA FIG. 2-1.
- SECURE DAMPER TO SLEEVE AT 8" CENTERS AS PER SMACNA FIG. 2-1. G. CONNECT DUCT TO SLEEVE WITH BREAK-AWAY CONNECTION AS PER SMACNA FIG. 2-2.
- 1. FIRE DAMPERS TO BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A, UL LABELS AND THE LATEST ISSUE OF S.M.A.C.N.A. CHAPTER 2.

2. CURTAIN TYPE FIRE DAMPERS SHOWN, MULTI-BLADE PIVOTED FIRE

- DAMPERS MEETING THE ABOVE STANDARD WILL BE ACCEPTABLE. 3. PROVIDE ACCESS DOORS. INSTALL (1) AD FOR EACH FIRE DAMPER AS PER
- SMACNA FIG. 6-1. 4. FOR DUCT 12" OR LESS IN DEPTH, FIRE DAMPER SHALL BE OUT OF THE AIR STREAM. REFER TO FIGURE 2.

SHUTTER TYPE FIRE DAMPER AND SLEEVE DETAIL





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Scale

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KAEYER, GARMENT, & DAVIDSON ARCHITECTS, PC (KG&D), AND WERE CREATED

FOR USE ON THIS PROJECT, NONE OF SUCH IDEAS, DESIGNS, ARRANGEMENT OR PLANS SHALL BE USED BY OR DISCLOSED TO ANY PURPOSE WHATSOEVER

WITHOUT THE WRITTEN PERMISSION OF (KG&D).

KEY PLAN

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		EVIATIONS				T		
SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
	-	CONDUIT AND WIRING	ANN	-	FIRE ALARM ANNUNCIATOR PANEL		EX.	EXISTING TO REMAIN
	-	CONDUIT & WIRING TO BE REMOVED UON	СМ	СМ	FIRE ALARM CONTROL MODULE		F	FLOOR
——UG——	-	BURIED CONDUIT	MM	MM	FIRE ALARM MONITORING MODULE		FBO	FURNISHED BY OTHERS
——ОН——	-	OVERHEAD CONDUCTORS	FACP	FACP	FIRE ALARM CONTROL PANEL		FC	FAN COIL UNIT
	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P	BPS	BPS	BOOSTER POWER SUPPLY		GEN	GENERATOR
	-	MULTI-POLE HOMERUN	DGP	DGP	DATA GATHERING PANEL		GFI	GROUND FAULT INTERRUPTER
	-	ELECTRICAL EQUIPMENT AS INDICATED	FCS	FCS	FIRE COMMAND STATION		HP	HORSEPOWER
	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON	FSS	FSS	FIRE SUPPRESSION SYSTEM PANEL		HVAC	HEATING VENTILATION AIR CONDITIONING
M	-	ELECTRIC METER	R	-	FIRE ALARM RELAY		IG	ISOLATED GROUND
J	-	JUNCTION BOX		EOL	END OF LINE RESISTOR		IMC	INTERMEDIATE METAL CONDUIT
	-	FUSED DISCONNECT SWITCH	(SP)	-	CEILING MOUNTED PUBLIC ADDRESS SPEAKER		KVA	KILO-VOLT-AMPERE
	-			_				
		UNFUSED DISCONNECT SWITCH	S		CEILING MOUNTED SPHERICAL TYPE LOUD SPEAKER		KW	KILO-WATT
	-	COMBINATION MOTOR STARTER/FUSED DISC.	0				MAX	MAXIMUM
	-	MOTOR STARTER	OB O	-	PUBLIC ADDRESS BELL		MCB	MAIN CIRCUIT BREAKER
	-	MOTOR	<u>©</u>	-	CAMERA		MCC	MOTOR CONTROL CENTER
	-	BATTERY PACK EMERGENCY LIGHT FIXTURE	CL	-	CLOCK		MIN	MINIMUM
	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW	<u></u>	СВ	CIRCUIT BREAKER		MLO	MAIN LUG ONLY
S_x	-	SINGLE POLE SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)	60	-	ENCLOSED CIRCUIT BREAKER		MTS	MANUAL TRANSFER SWITCH
		(x - INDICATES FIXTURE BEING CONTROLLED)		-	FUSED SWITCH		NIC	NOT IN CONTRACT
S _x ³	-	THREE WAY SWITCH		GND	GROUND AS PER LOCAL CODE		NL	NIGHT LIGHT
Α		(x - INDICATES FIXTURE BEING CONTROLLED)	т	-	GROUND BAR		NTS	NOT TO SCALE
S _x ⁴	-	FOUR WAY SWITCH	OR ①	-	GROUND ROD		PBO	PROVIDED BY OTHERS
○ x		(x - INDICATES FIXTURE BEING CONTROLLED)	who or T	XFMR	TRANSFORMER		PNL	PANEL
S _x ^{DIM}	-	DIMMER SWITCH		СТ	CURRENT TRANSFORMER		REL.	REMOVE AND RELOCATE
\mathbf{S}_{x}		(x - INDICATES FIXTURE BEING CONTROLLED)	<u> </u>	-	UTILITY POLE		RGS	RIGID GALVANIZED STEEL
0	_							
S _M		MOTOR RATED TOGGLE SWITCH	₽¶ WM	WM	WATER MAIN		RTU	ROOF TOP UNIT
S _K	-	KEY OPERATED SINGLE POLE SWITCH	M	MD	MOTORIZED DAMPER		SCH	SCHEDULE
	-	WALL MOUNTED OCCUPANCY SENSOR	— — —	SD OR CFSD	SMOKE DAMPER		SPD	SURGE PROTECTION DEVICE
<u>©</u>	-	CEILING MOUNTED OCCUPANCY SENSOR	UH UH	UH	UNIT HEATER		SW	SWITCH(ES)
\rightleftharpoons	-	DUPLEX RECEPTACLE	[VAV]	VAV	VARIABLE AIR VOLUME BOX		TELCO	TELEPHONE COMPANY
 	-	DOUBLE DUPLEX RECEPTACLE	(CL)	-	CLOCK		TYP	TYPICAL
\ominus	-	SPECIAL RECEPTACLE		A	AMPERE(S)		UG	UNDERGROUND
\bigvee	-	TELEPHONE OUTLET		AC	AIR CONDITIONER		UON	UNLESS OTHERWISE NOTED
▼ ×	-	DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK		ACC	AIR CONDITIONER CONDENSER		UV	UNIT VENTILATOR
		UON)		AFF	ABOVE FINISHED FLOOR		VIF	VERIFY IN FIELD
CLG	-	CEILING DATA POINT		AF	AMPERAGE OF FUSE		V	VOLT(S)
F	-	FIRE ALARM MANUAL PULL STATION		AGL	ABOVE GRADE LEVEL		VSD	VARIABLE SPEED DRIVE
	_	FIRE ALARM VOICE EVACUATION COMBINATION		AHU	AIR HANDLING UNIT		WG	WIRE GUARD
ШΛΥ		AUDIO/VISUAL DEVICE (15/75 CD - STROBE)						
□ 4 △ 110				AL	ALUMINIUM		WH	WATER HEATER
F 0 0 110	-	FIRE ALARM VOICE EVACUATION COMBINATION AUDIO/VISUAL DEVICE (110 CD - STROBE)		ARC	ARC FAULT INTERRUPTER		WP	WEATHERPROOF
				AS	AMPERAGE OF SWITCH		WAP	WIRELESS ACCESS POINT
F	-	FIRE ALARM STROBE 15/75 CD		ATS	AUTOMATIC TRANSFER SWITCH		REM	REMOVE AND REINSTALL
E 110	-	FIRE ALARM STROBE 110 CD		AWG	AMERICAN WIRE GAUGE			
	-	CARBON MONOXIDE AUDIO/VISUAL DEVICE (15/75 CD - STROBE)		BCW	BARE COPPER WIRE			
		OD - STROBE)		BLDG	BUILDING	TYPICAL BRA	NCH CIRC	UIT WIRING LEGEND
S EL; SH; SC	-	SMOKE DETECTOR. EL - ELEVATOR LOBBY;		BMS	BUILDING MANAGEMENT SYSTEM	2-#12 & 1-#12	GND (1-1P-20A OF	R 1-1P-15A CB)
, ,		SH - SMOKE HATCH; SC - PLENUM RATED ABOVE CEILING		С	CONDUIT	3-#12 & 1-#12	•	,
$\overline{}$	SB	FIRE ALARM DEVICE.		CD	CANDELA	2-#12 & 1-#12		
SB		SB - SOUNDER BASE FOR SMOKE OR CARBON MONOXIDE DETECTOR		CKT	CIRCUIT	13		LIGHT FIXTURE TYPE
RX	-	BEAM SMOKE DETECTOR RECEIVER		CLG	CEILING	CIRCUIT#	15	SWITCH CONTROL
TX	-	BEAM SMOKE DETECTOR TRANSMITTER		COL	COLUMN	RECEPTAC	CLE	LIGHT FIXTURE —— CIRCUIT #
	-					NOTES:	77\/ CIDCUIT OU	
S AC		DUCT MOUNTED SMOKE DETECTOR		CU	COPPER	SHARED NEUTRAL I	HOMERUNS ARE N	OT PERMITTED.
<u>H</u>	-	HEAT DETECTOR		DEM.	DEMOLISH AND REMOVE	APPLICABLE ELECT	RICAL CODE. FO	D FOR VOLTAGE DROP AND DERATING AS PER CIRCUITS THAT ARE BETWEEN 100' AND 150'
<u>(co)</u>	-	CARBON MONOXIDE DETECTOR		DISC	DISCONNECT	ARE BETWEEN 150'	AND 225' IN LENG	OUCTORS SHALL BE #10 AWG. FOR CIRCUITS THA TH, PHASE AND NEUTRAL CONDUCTORS SHALL E
NG	-	NATURAL GAS DETECTOR		DIM	DIMMER	#8 AWG. FOR LEN WITH ENGINEER.	GTHS GREATER	THAN 225' IN LENGTH, VERIFY CONDUCTOR SIZE
O F	-	FIRE ALARM BELL		DWG	DRAWING			
TS	-	FIRE ALARM TAMPER SWITCH		ELEV	ELEVATOR	NOTES:	DDE\#AT#2016	/NOT DE ADDITION
WF	-	FIRE ALARM WATER FLOW SWITCH		EMT	ELECTRICAL METALLIC TUBING			/ NOT BE APPLICABLE FOR THIS PROJECT. LIGHT FIXTURE SYMBOLS.
						_		

GENERAL NOTES

- ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
- THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.
- THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND PAYING ALL FEES ASSOCIATED WITH THIS WORK INCLUDING FILING WITH THE UTILITY COMPANY (AS REQUIRED), AND WITH LOCAL AUTHORITY HAVING JURISDICTION.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO HIRE A THIRD PARTY ELECTRICAL INSPECTION AGENCY TO PROVIDE UL INSPECTIONS AND SUBMIT A CERTIFICATE OF INSPECTION PRIOR TO FINAL REQUEST FOR PAYMENT.
- ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".
- ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES.
- CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.
- CORE DRILLING OR TRENCHING THROUGH AN EXISTING FLOOR SLAB, WHEN REQUIRED, SHALL BE COORDINATED WITH THE OWNER. FLOOR SLABS SHALL BE RADAR SCANNED PRIOR TO CORE DRILLING OR TRENCHING, ALL WORK, INCLUDING CORE DRILLING, RADAR SCAN, INSTALLATION OF FIRE STOPPING. & CONDUIT/CABLE INSTALLATION SHALL BE PERFORMED DURING NON-BUSINESS HOURS AND INCLUDED IN BASE BID. USE EXTREME CAUTION DURING ANY CUTTING OPERATION TO AVOID DAMAGE TO EXISTING EQUIPMENT/SYSTEMS. ANY ITEMS DAMAGED AS A RESULT OF CORE DRILLING SHALL BE REPAIRED AT NO COST TO THE CLIENT. ALL CORES SHALL BE FIRE SEALED.
- FOR EACH WALL MOUNTED COMMUNICATIONS OUTLET, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR NY SED PROJECT CONTROL NO. INSTALLATION OF CABLE.
- COMMUNICATION WIRING SHALL BE PROVIDED BY THE ELECTRICAL CONTRACTOR. DRAWINGS INDICATE NUMBER OF CAT6 CABLES THAT SHALL BE PROVIDED TO EACH LOCATION BY ELECTRICAL CONTRACTOR.
- WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
- CEILING MOUNTED RECEPTACLES AND DATA POINTS SHALL BE MOUNTED FLUSH TO CEILING.
- UNLESS OTHERWISE NOTED, DISCONNECT SWITCHES, STARTERS, HOAS AND MOTOR RATED TOGGLE SWITCHES FOR MECHANICAL PUMPS, CABINET AND UNIT HEATERS, RETURN FANS, ROOF FANS, VAV BOXES, COMPRESSORS, FAN COIL UNITS, AIR HANDLERS AND CONDENSERS SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. COORDINATE ALL WORK WITH THE MECHANICAL CONTRACTOR.
- DISCONNECT SWITCHES FOR MOTORIZED DAMPERS, CFSD/SD AND VAV BOXES SUPPLIED BY MECHANICAL CONTRACTOR AND INSTALLED AND WIRED BY ELECTRICAL CONTRACTOR. SWITCHES NOT SHOWN ON PLANS.
- INCLUDE IN BASE BID (1P-20A CB) CIRCUITS ON EACH LEVEL AS INDICATED (150' LENGTH EACH) FOR HVAC SYSTEM CONTROL PANELS. EXACT LOCATION OF CONTROL PANELS SHALL BE COORDINATED WITH DIVISION 23 IN THE FIELD. CIRCUITS SHALL ORIGINATE FROM THE FOLLOWING PANELBOARDS:

FIRST FLOOR - LPSP1-16,18,20 THIRD FLOOR - PP3 - 17,19, 21, 23, 25

- THE ELECTRICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE DEMOLITION AND INSTALLATION OF ALL ELECTRICAL EQUIPMENT, INCLUDING BUT NOT LIMITED TO PANELBOARDS, CONDUITS, WIRING, DEVICES, FIXTURES, ETC. INCLUDING ABOVE CEILINGS. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH WALLS, AS REQUIRED TO EXECUTE THE ELECTRICAL WORK.
- ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE TO HIRE AND PAY ALL FEES FOR THE UL FIELD EVALUATION SERVICE TO RE-INSPECT AND RE-CERTIFY ALL SWITCHBOARDS AND DISTRIBUTION BOARDS IN RELATION TO MODIFICATIONS REQUIRED WHEN TAPPING THE BUS. CONTRACTOR SHALL SCHEDULE WITH UL PRIOR TO START OF WORK. UL SHALL BE PRESENT WHILE TAPPING OF THE SWITCHBOARD IS EXECUTED. (TEL: 1-877-ULHELPS)

TUCKAHOE MIDDLE/HIGH **SCHOOL**

ALTERATIONS TUCKAHOE UNION FREE

SCHOOL DISTRICT 65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



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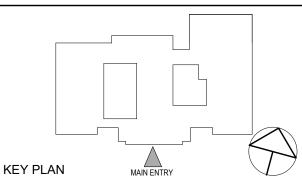


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CONSTRUCTION **DOCUMENTS**



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WRITTEN DIMENSIONS ON THIS DRAWING SHALL HAVE PRECEDENCE OVER SCALED DIMENSIONS, CONTRACTOR SHALL VERIFY ALL ACTUAL DIMENSIONS AND CONDITIONS ON THE JOB AND THE ARCHITECT MUST BE NOTIFIED OF ANY VARIATIONS FROM DIMENSIONS AND CONDITIONS SHOWN. SHOP DETAILS MUST BE SUBMITTED TO THIS OFFICE FOR APPROVAL BEFORE PROCEEDING WITH

ALTERATIONS BY ANY PERSON, IN ANY WAY, OF ANY ITEM CONTAINED ON THIS DOCUMENT, UNLESS ACTING UNDER THE DIRECTION OF THE LICENCED ARCHITECT WHOSE PROFESSIONAL SEAL IS AFFIXED HERETO, IS A VIOLATION OF TITLE VII, SECT. 69.5 (b) OF NEW YORK STATE LAW.

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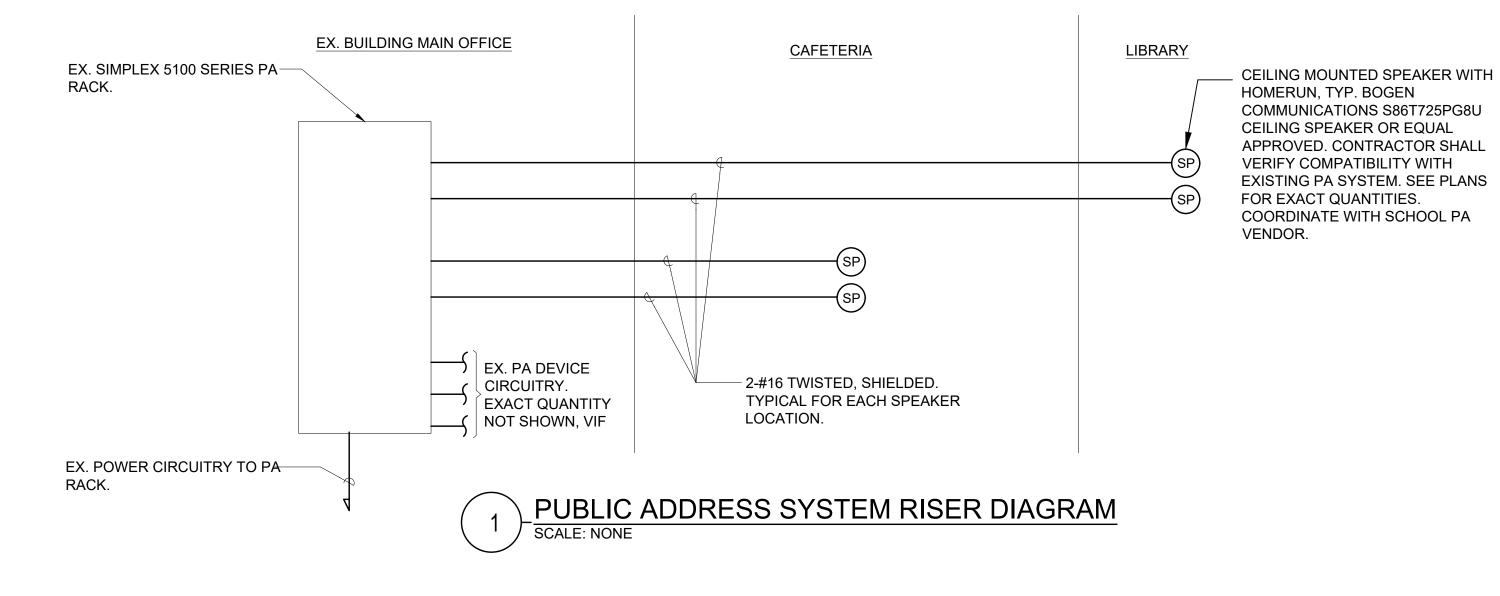
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ELECTRICAL SYMBOLS, **ABBREVIATIONS &**

GENERAL NOTES

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Sheet Number



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DEFINITION OF TERMS

- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "TUCKAHOE UNION FREE SCHOOL DISTRICT" IS INTENDED.
- 2. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "KG&D ARCHITECTS P.C." IS INTENDED.
- 3. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
- 4. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY"
- ARE USED, IT MUST BE UNDERSTOOD THAT "CON EDISON" IS INTENDED.

5. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "TELEPHONE UTILITY" OR "TELCO" ARE USED, IT

- 6. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "FIRE ALARM SYSTEM" OR "FIRE ALARM VENDOR" ARE USED, IT MUST BE UNDERSTOOD THAT "FIRE SYSTEM" IS INTENDED.
- 7. "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
- 8. "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
- 9. "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.
- 10. "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
- 11. THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:

MUST BE UNDERSTOOD THAT "VERIZON" IS INTENDED.

- A. "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE. CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.
- B. "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.
- C. "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.
- D. "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

DEMOLITION NOTES

- 1. ALL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE ORIGINATION UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
- 2. CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES AND SYSTEMS TO REMAIN, TEMPORARY AND PERMANENTLY. WORK REQUIRING THE SHUT-DOWN OF THE BUILDING POWER SHALL BE PERFORMED DURING OVERTIME AND SHALL BE INCLUDED IN BASE BID.
- CIRCUIT BREAKER, CONDUIT AND CONDUCTOR SIZES INDICATED SHALL BE FIELD VERIFIED PRIOR TO
- 4. ALL EXISTING ELECTRICAL EQUIPMENT NO LONGER IN USE, SUCH AS DISCONNECT SWITCHES, MOTOR CONTROLLERS, MOTOR STARTER PANELS, ETC. SHALL BE REMOVED UON.
- 5. ALL DISCONNECTED & REMOVED EXISTING ELECTRICAL ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED.
- 6. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS & CABLING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING **DURING DEMOLITION & CONSTRUCTION PHASES.**

TUCKAHOE MIDDLE/HIGH **SCHOOL ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD

EASTCHESTER, N. Y. 10709



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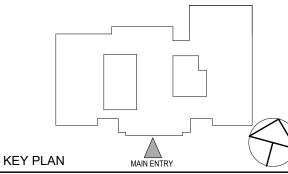
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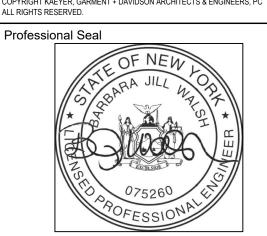
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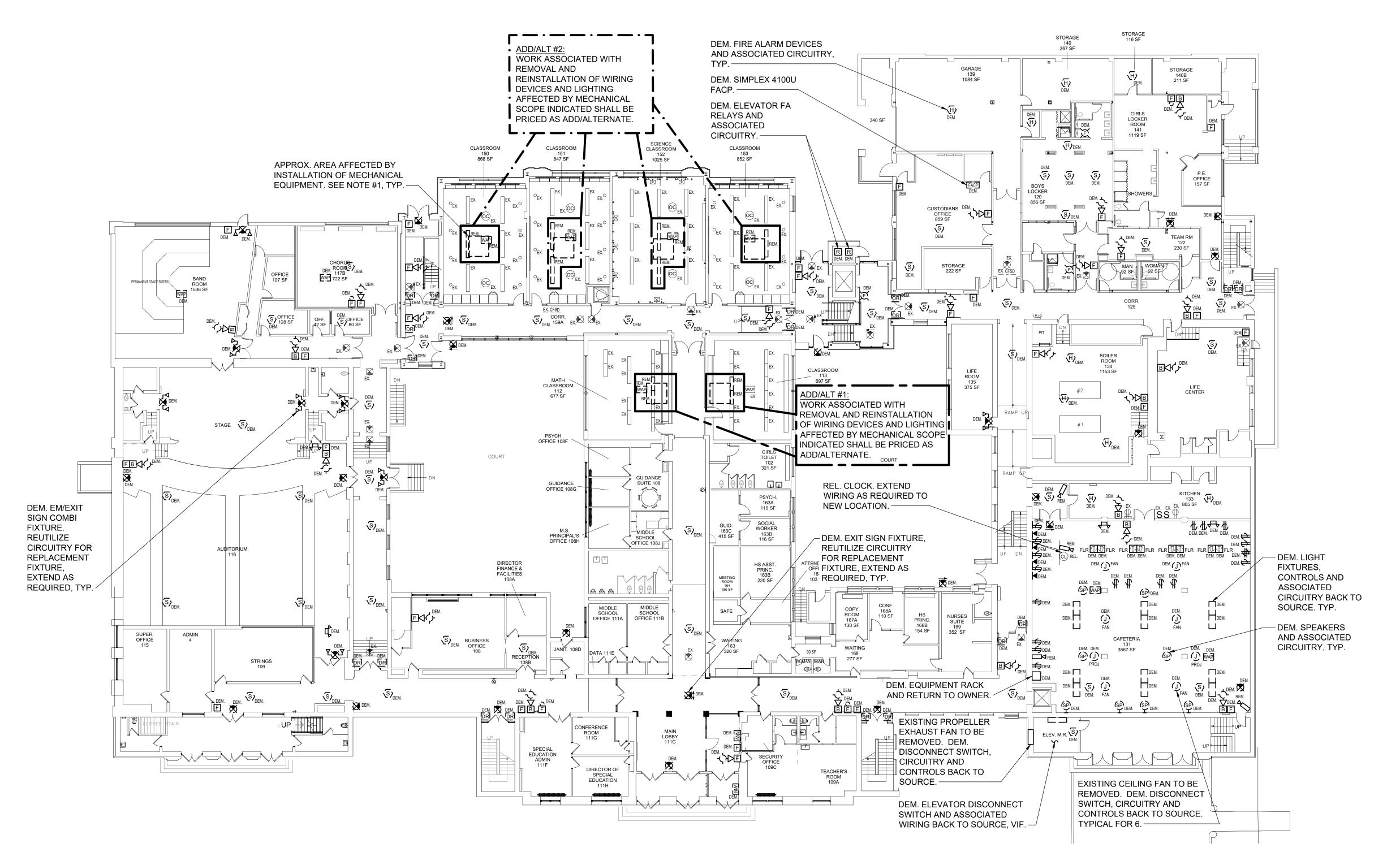


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ELECTRICAL NOTES & PA SYSTEM RISER

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TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT

65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



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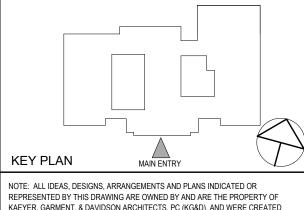
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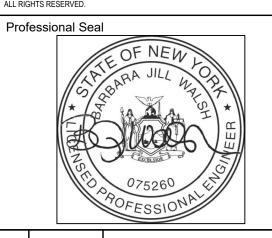
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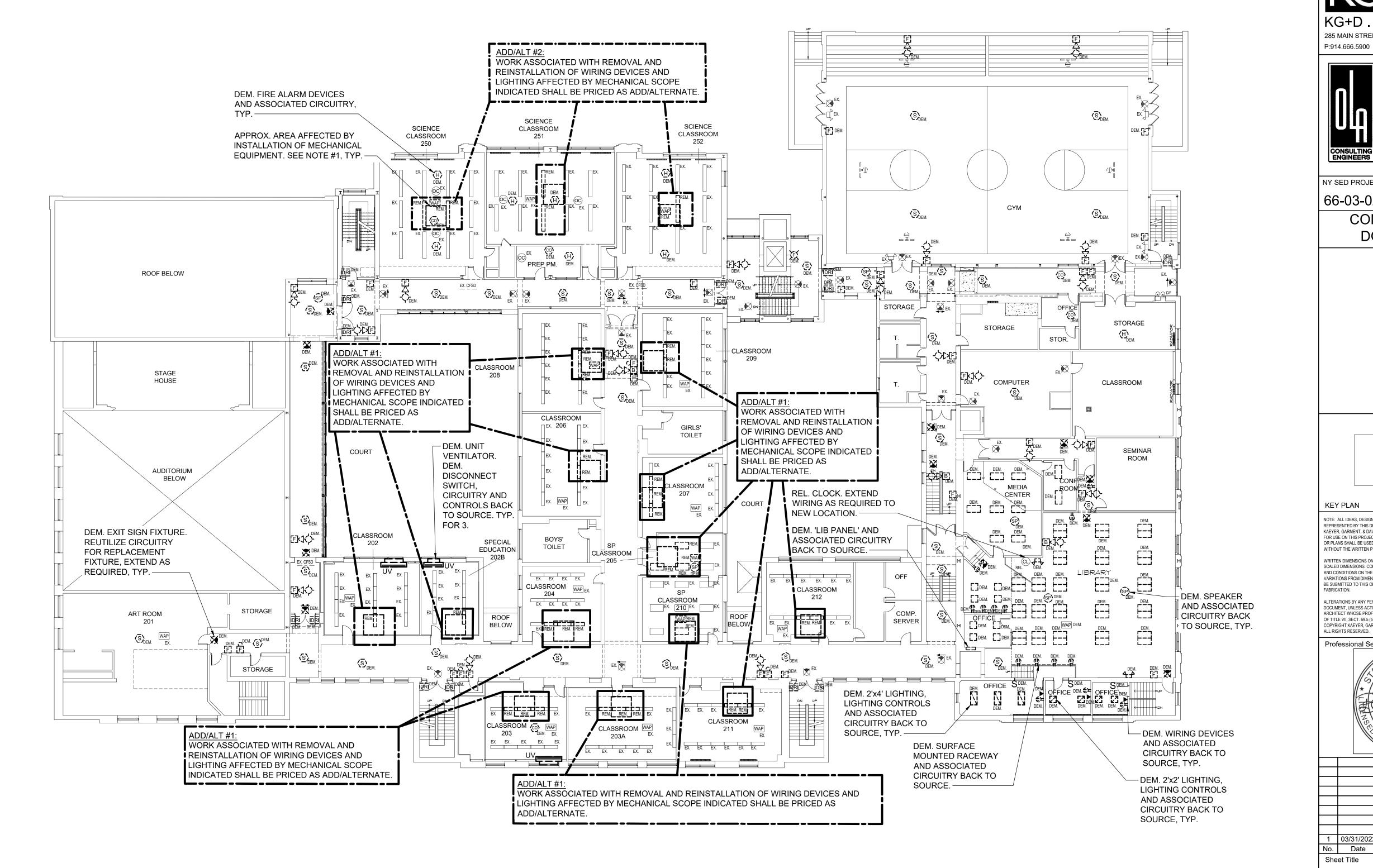
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ELECTRICAL FIRST FLOOR DEMOLITION PLAN

09/10/2021 NKGD0239.00 Drawn / Checked AS NOTED

Sheet Number

1.) CONTRACTOR SHALL REMOVE ALL DEVICES AND FIXTURES INSTALLED ON DROP CEILING, INCLUDING BUT NOT LIMITED TO LIGHT FIXTURES, FIRE ALARM DEVICES, LIGHTING CONTROL, ETC. IN AFFECTED AREAS INDICATED TO FACILITATE THE INSTALLATION OF MECHANICAL EQUIPMENT. CONTRACTOR SHALL REMOVE, STORE, CLEAN, REINSTALL AND TEST ALL DEVICES, FIXTURES AND WIRING IN ORIGINAL LOCATION ONCE THE MECHANICAL INSTALLATION IS COMPLETE. CONTRACTOR SHALL RELOCATE AND PROTECT WIRING ABOVE THE CEILING AS REQUIRED. INCLUDE RELOCATION OF 50' OF 2-#12 AND 1-#12 GND IN 3/4"C FOR EACH LOCATION IN BID.





TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD



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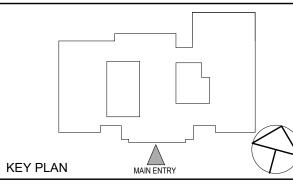
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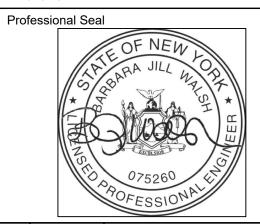
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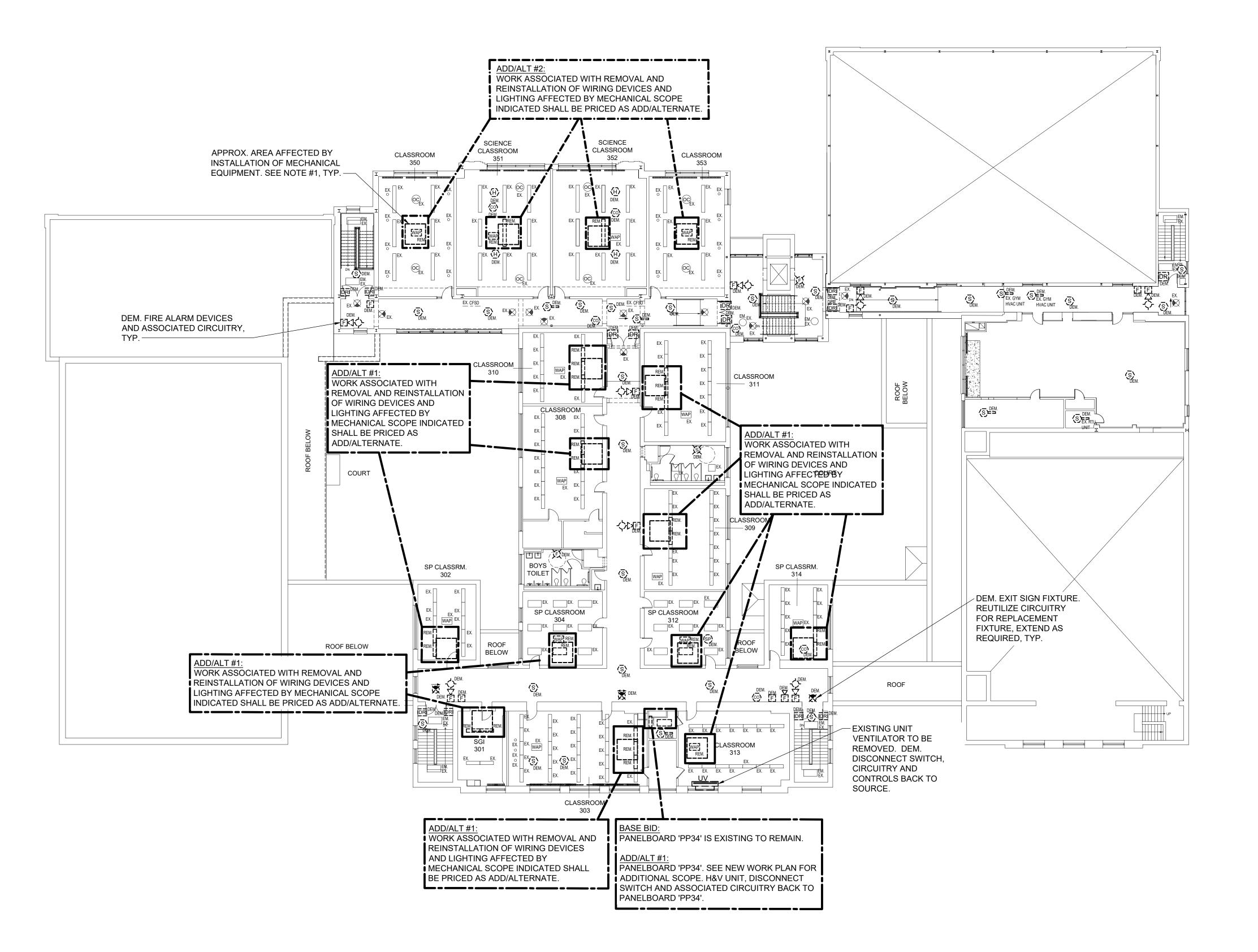
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ELECTRICAL SECOND FLOOR DEMOLITION PLAN

Job No.	Date
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Scale	Drawn / Check
AS NOTED	VB / ML

Sheet Number

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

TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT

65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



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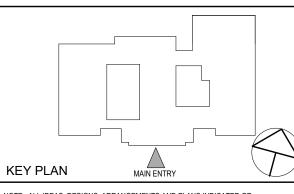
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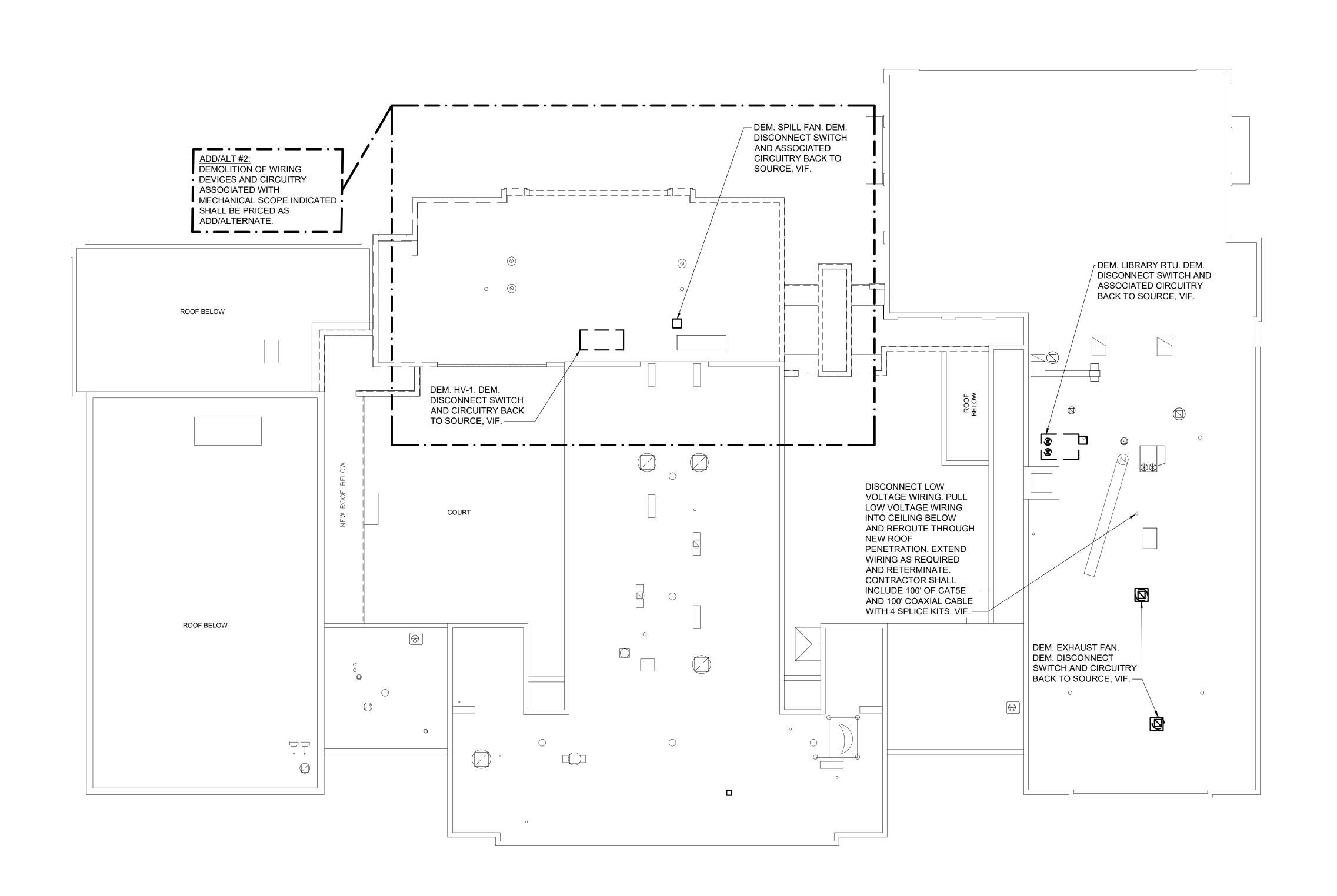


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ELECTRICAL THIRD FLOOR DEMOLITION PLAN

Job No.	Date
NKGD0239.00	09/10/2021
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AS NOTED	VB / ML

Sheet Number



ELECTRICAL ROOF DEMOLITION PLAN
SCALE: 1/16" = 1'-0"

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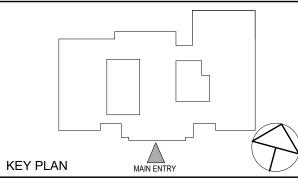
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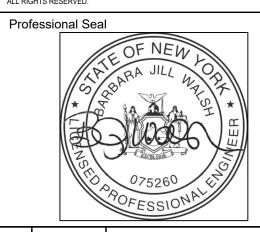
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ELECTRICAL ROOF DEMOLITION PLAN

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DESIGN INTENT - LIGHTING CONTROL SYSTEM

1. LIGHTING CONTROL SYSTEM IS BASED ON N-LIGHT BY SENSOR SWITCH (KAREN BLACKMAN (212) 462-0088 x5237) OR APPROVED EQUAL. (OTHER ACCEPTABLE MANUFACTURERS ARE LUTRON & COOPER LIGHTING.)

2. LIGHTING CONTROL COMPONENTS SHOWN ARE FOR GENERAL DESIGN INTENT. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR A DELEGATED DESIGN INCLUDING ALL NECESSARY COMPONENTS, WIRING (LINE AND LOW VOLTAGE) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. CONTRACTOR IS RESPONSIBLE FOR FULL DESIGN OF SYSTEM BASED ON THE DESIGN INTENT INCLUDED ON THESE DRAWINGS.

3. THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LIGHTING CONTROLS WITH LIGHT FIXTURES.

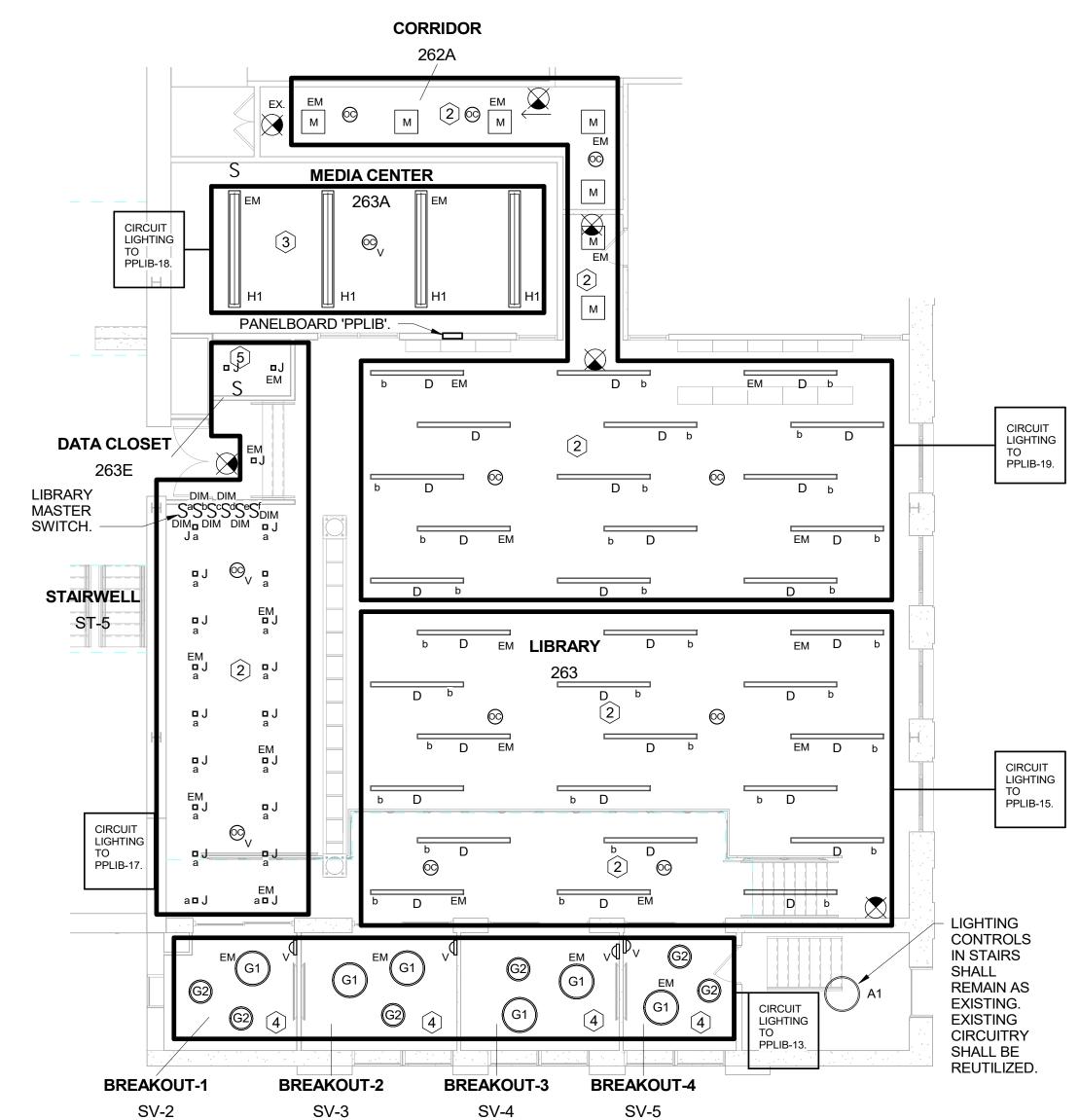
4. ALL LIGHT FIXTURE AND LIGHTING CONTROL SUBMITTALS SHALL BE SUBMITTED AT THE SAME TIME FOR APPROVAL.

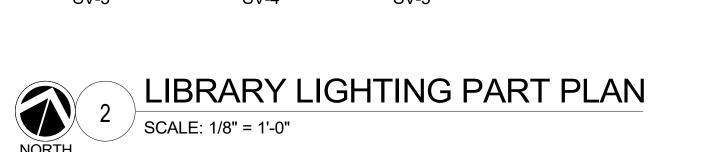
5. LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN EMERGENCY BATTERY BACKUP BALLASTS. WHERE POSSIBLE, THE BALLAST SHALL BE INTEGRAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY BALLAST IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BALLAST. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE BATTERY PACK AND FLOURESCENT LAMPS SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 12000 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.

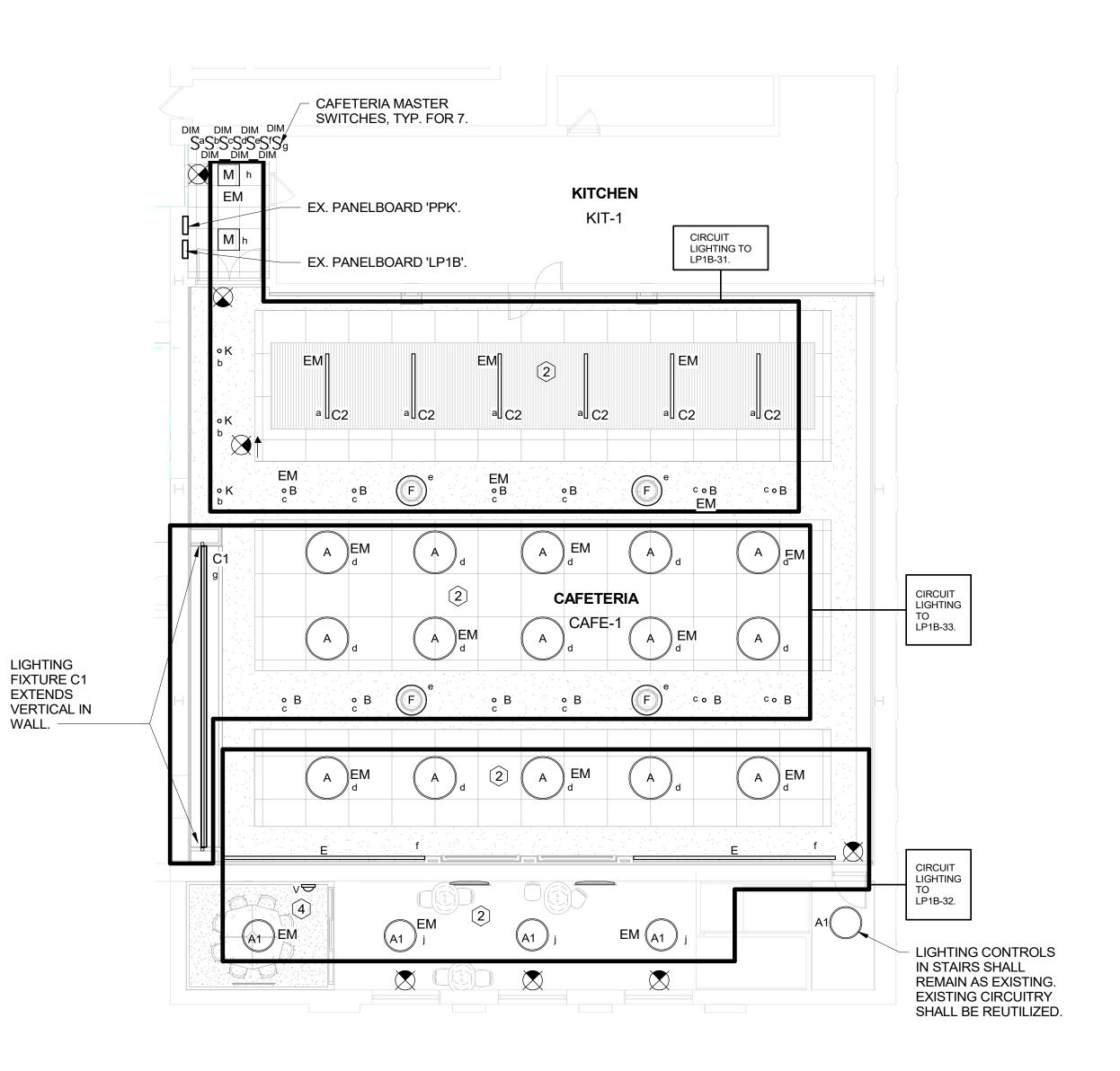
6. ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.

LIGHTING CONTROLS LEGEND

- 1 (NOT USED
- 2 TIME CLOCK WITH OCCUPANCY SENSOR OVERRIDE AFTER HOURS AND MASTER SWITCH.
- 3 LOW VOLTAGE WALL SWITCH AND DUAL TECHNOLOGY CEILING MOUNTED VACANCY SENSOR.
- 4 LINE VOLTAGE WALL MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
- 5 MANUAL ON/OFF WALL SWITCH.









TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS

SCHOOL DISTRICT
65 SIWANOY BLVD

TUCKAHOE UNION FREE



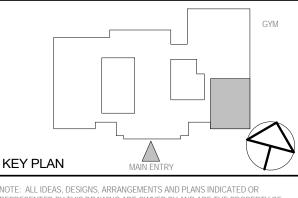
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ELECTRICAL CAFETERIA & LIBRARY LIGHTING PART PLAN

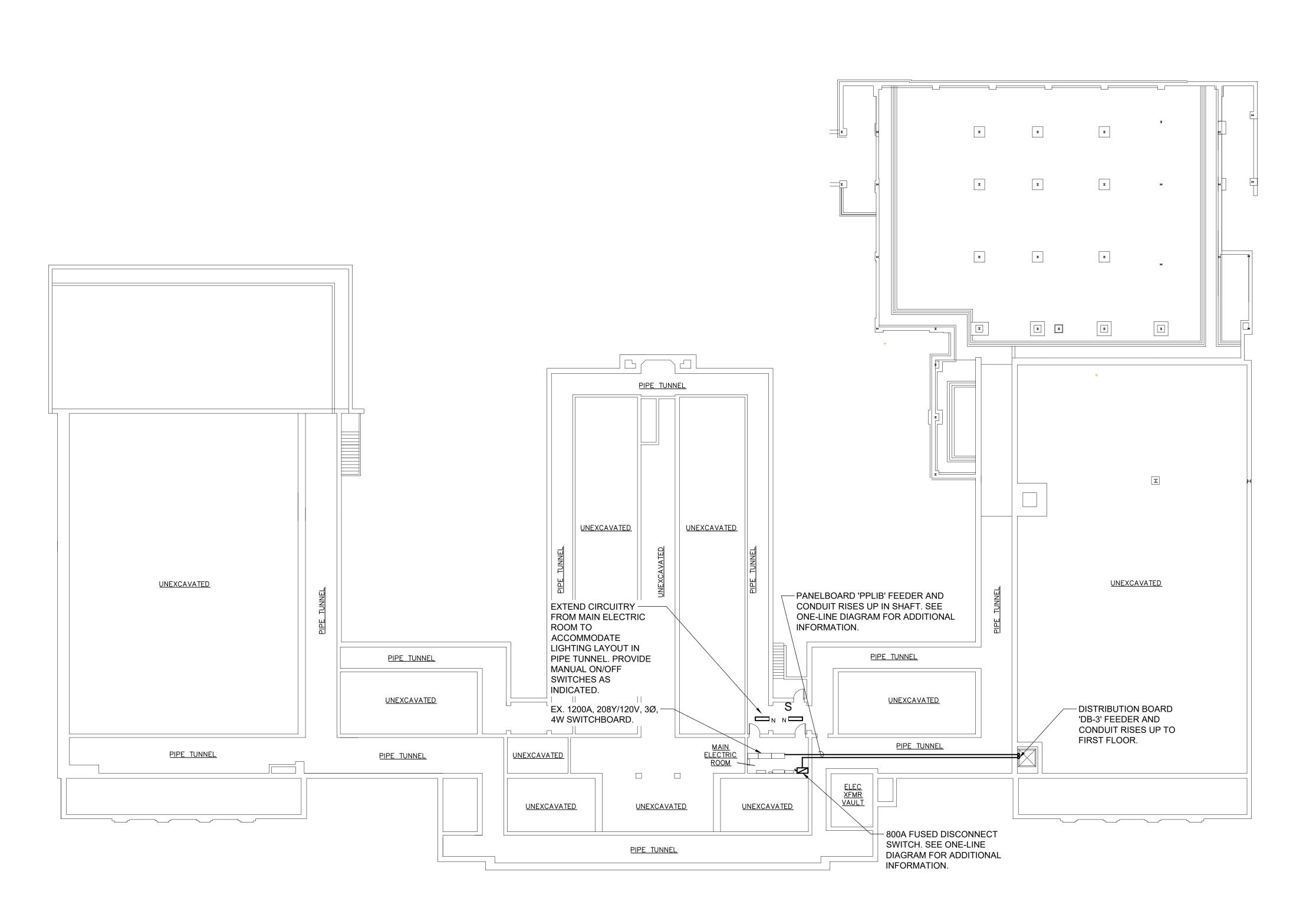
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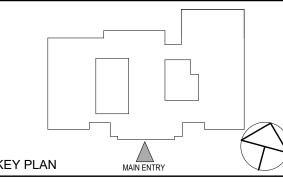
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KEY PLAN

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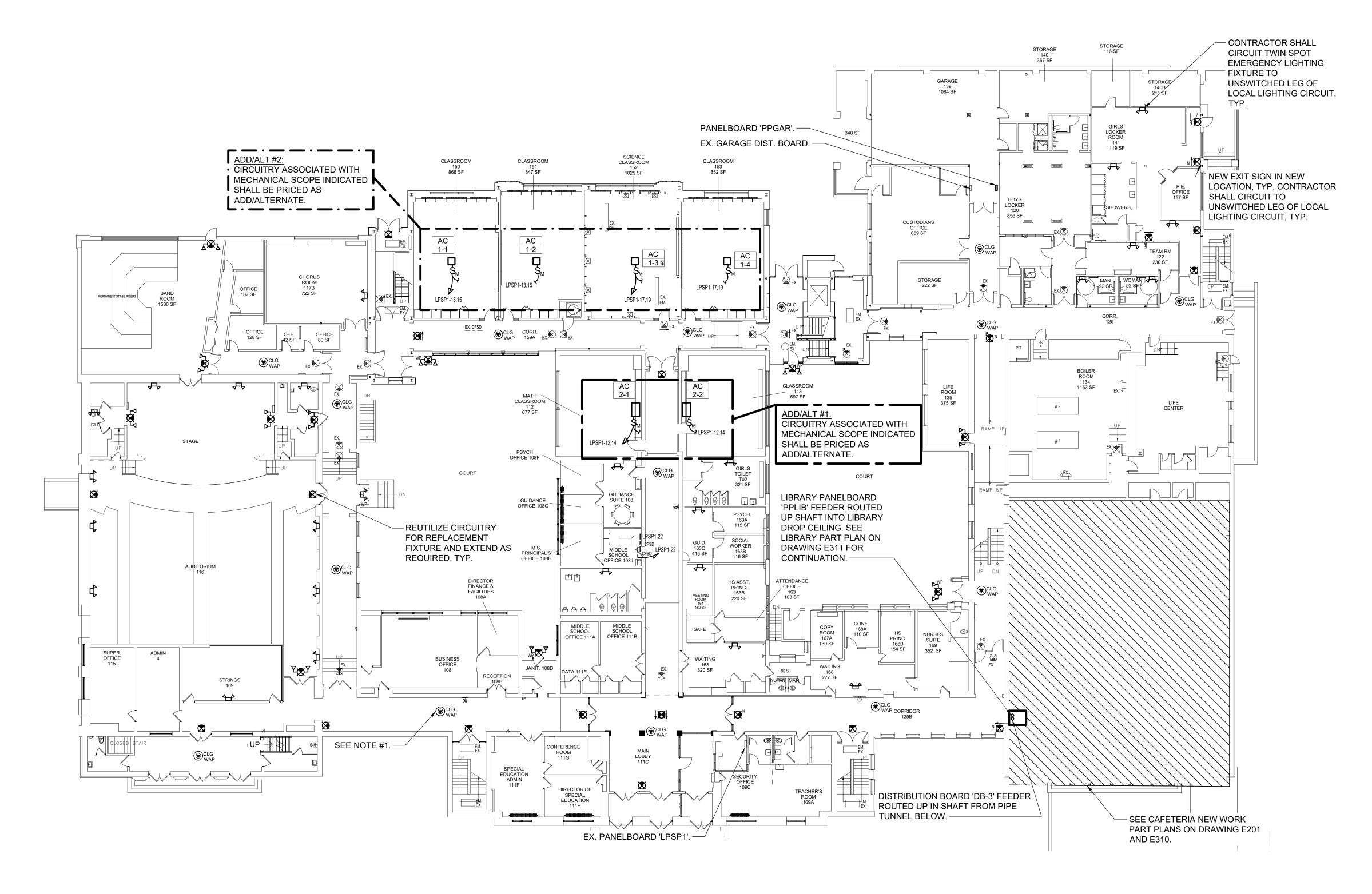
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ELECTRICAL **BASEMENT POWER** PLAN

NKGD0239.00 09/10/2021 Drawn / Checked Scale AS NOTED VB / ML

Sheet Number

1.) ELECTRICAL CONTRACTOR SHALL WIRE (1) CAT6 CABLE TO EACH DATA POINT SHOWN FROM AN EXISTING DATA RACK IN DATA ROOM 214, SEE DRAWING E302 FOR LOCATION. CAT6 CABLE SHALL BE PLENUM RATED WITHIN PLENUM CEILINGS. ELECTRICAL CONTRACTOR SHALL PROVIDE (2) 48 PORT CAT6 PATCH PANELS FOR INSTALLATION IN EX. DATA RACKS. TERMINATIONS AT DATA POINT AND PATCH PANEL BY ELECTRICAL CONTRACTOR. RJ45 JACKS AND COVER PLATES TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. TEST AND LABEL EACH END OF CAT6 CABLE.





TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



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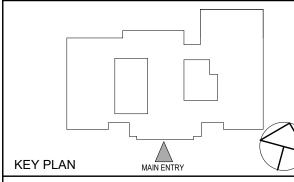
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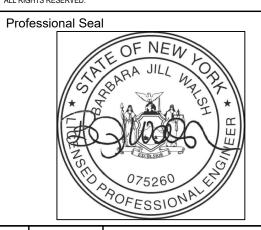
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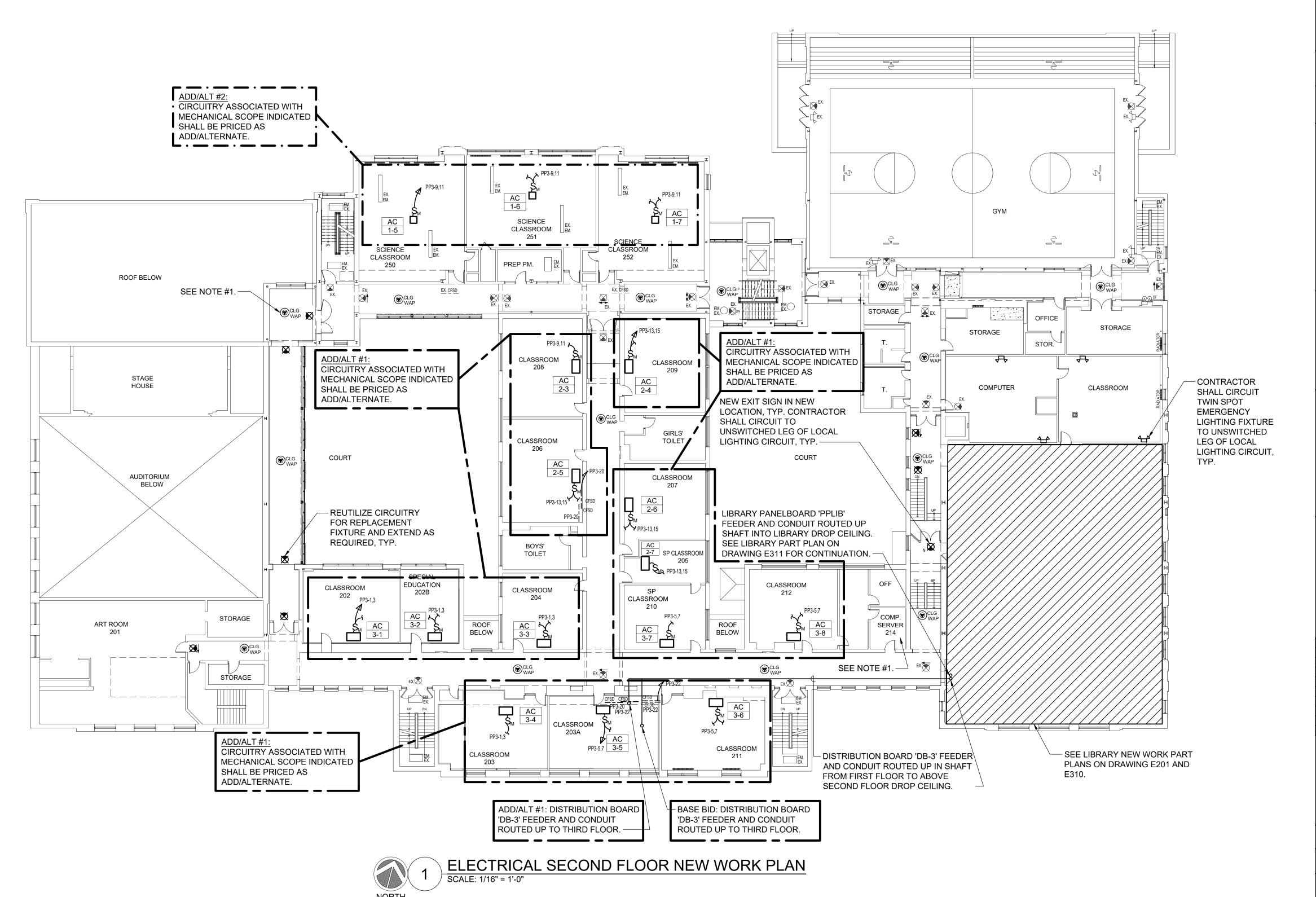
ELECTRICAL FIRST

FLOOR NEW WORK PLAN

NKGD0239.00 09/10/2021 Drawn / Checked AS NOTED

Sheet Number

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TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



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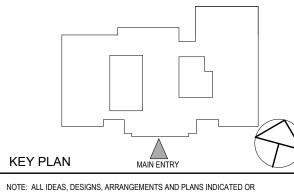
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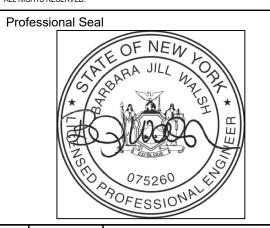


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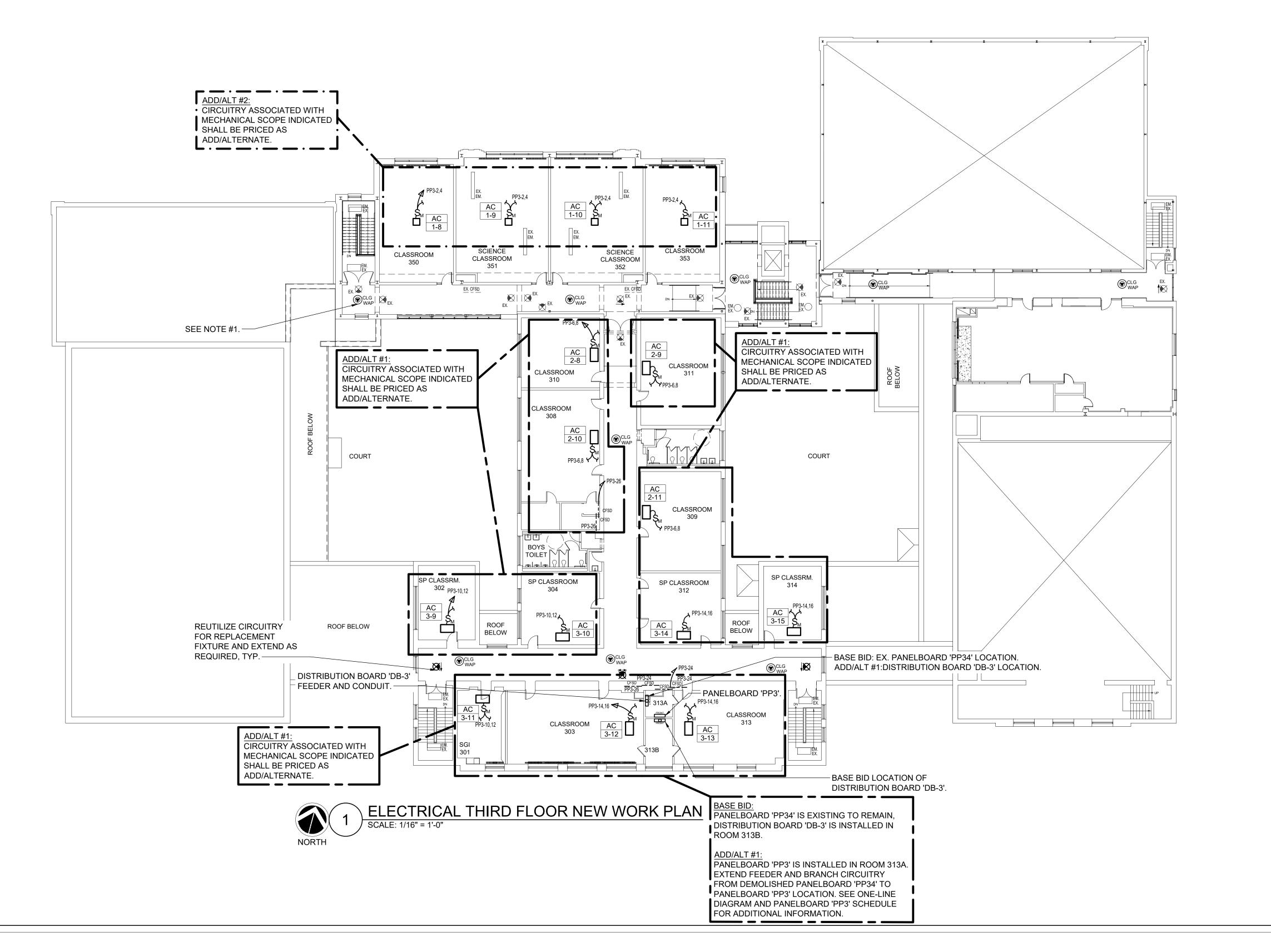
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ELECTRICAL SECOND FLOOR NEW WORK PLAN

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Sheet Number

1.) ELECTRICAL CONTRACTOR SHALL WIRE (1) CAT6 CABLE TO EACH DATA POINT SHOWN FROM AN EXISTING DATA RACK IN DATA ROOM 214, SEE DRAWING E302 FOR LOCATION. CAT6 CABLE SHALL BE PLENUM RATED WITHIN PLENUM CEILINGS. ELECTRICAL CONTRACTOR SHALL PROVIDE (2) 48 PORT CAT6 PATCH PANELS FOR INSTALLATION IN EX. DATA RACKS. TERMINATIONS AT DATA POINT AND PATCH PANEL BY ELECTRICAL CONTRACTOR. RJ45 JACKS AND COVER PLATES TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. TEST AND LABEL EACH END OF CAT6 CABLE.



TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD EASTCHESTER, N. Y. 10709



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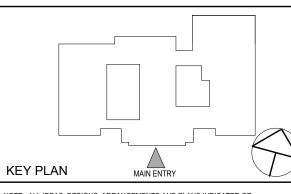
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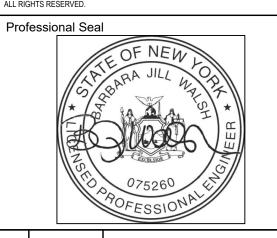


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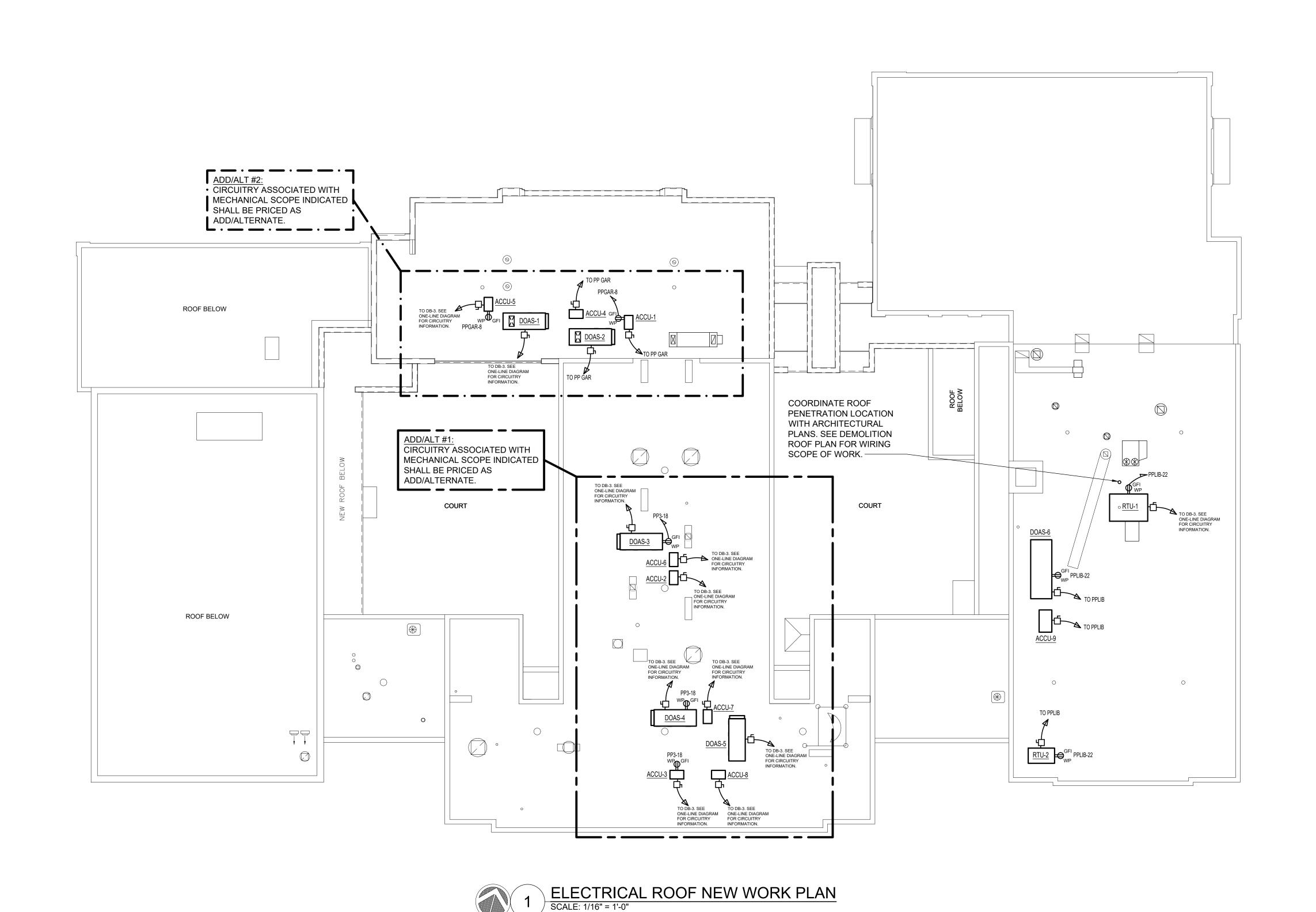
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ELECTRICAL THIRD FLOOR NEW WORK PLAN

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TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD





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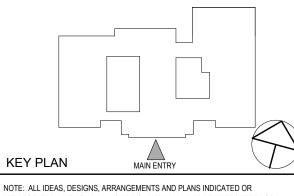
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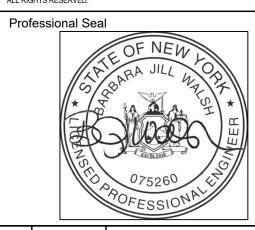
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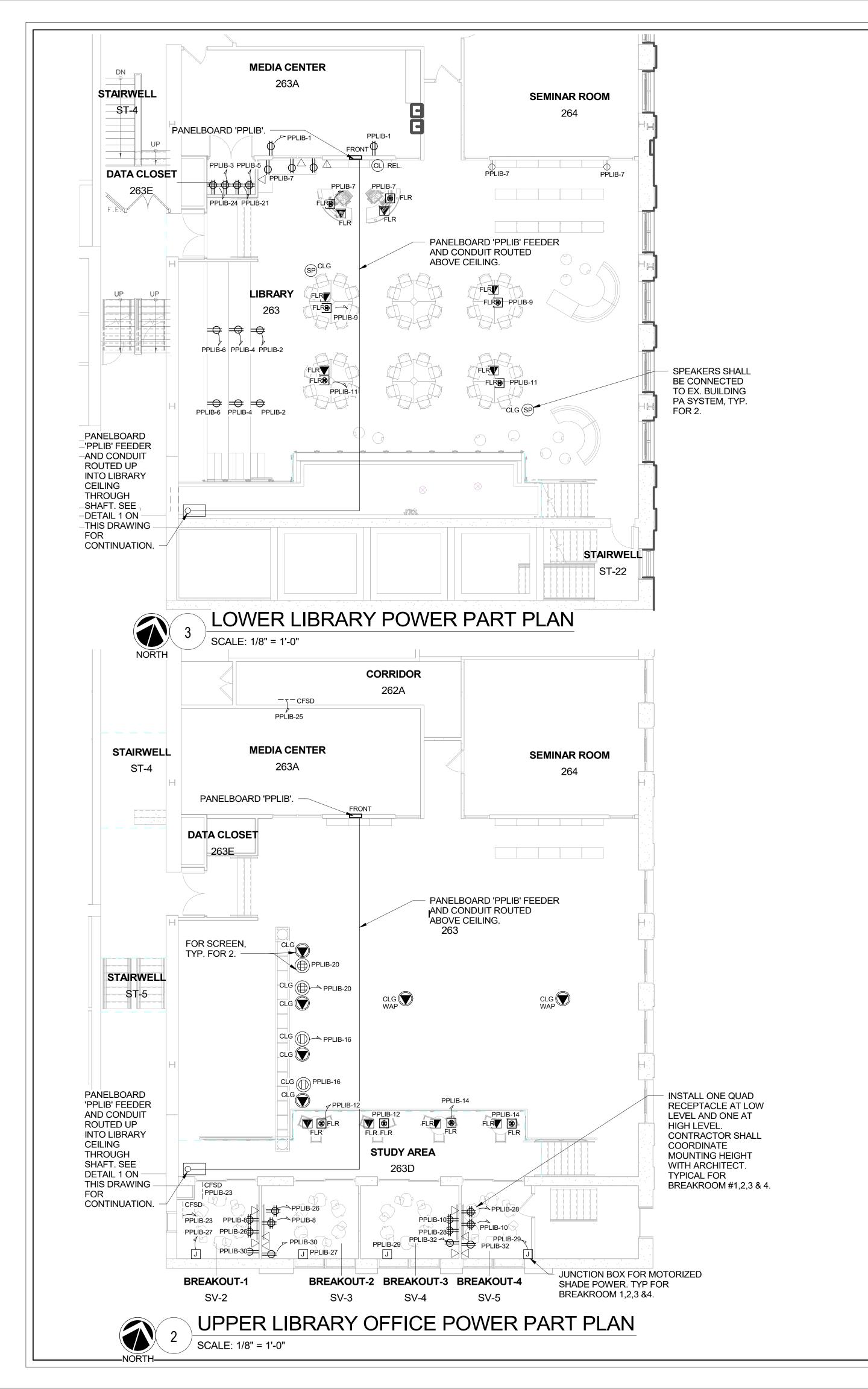
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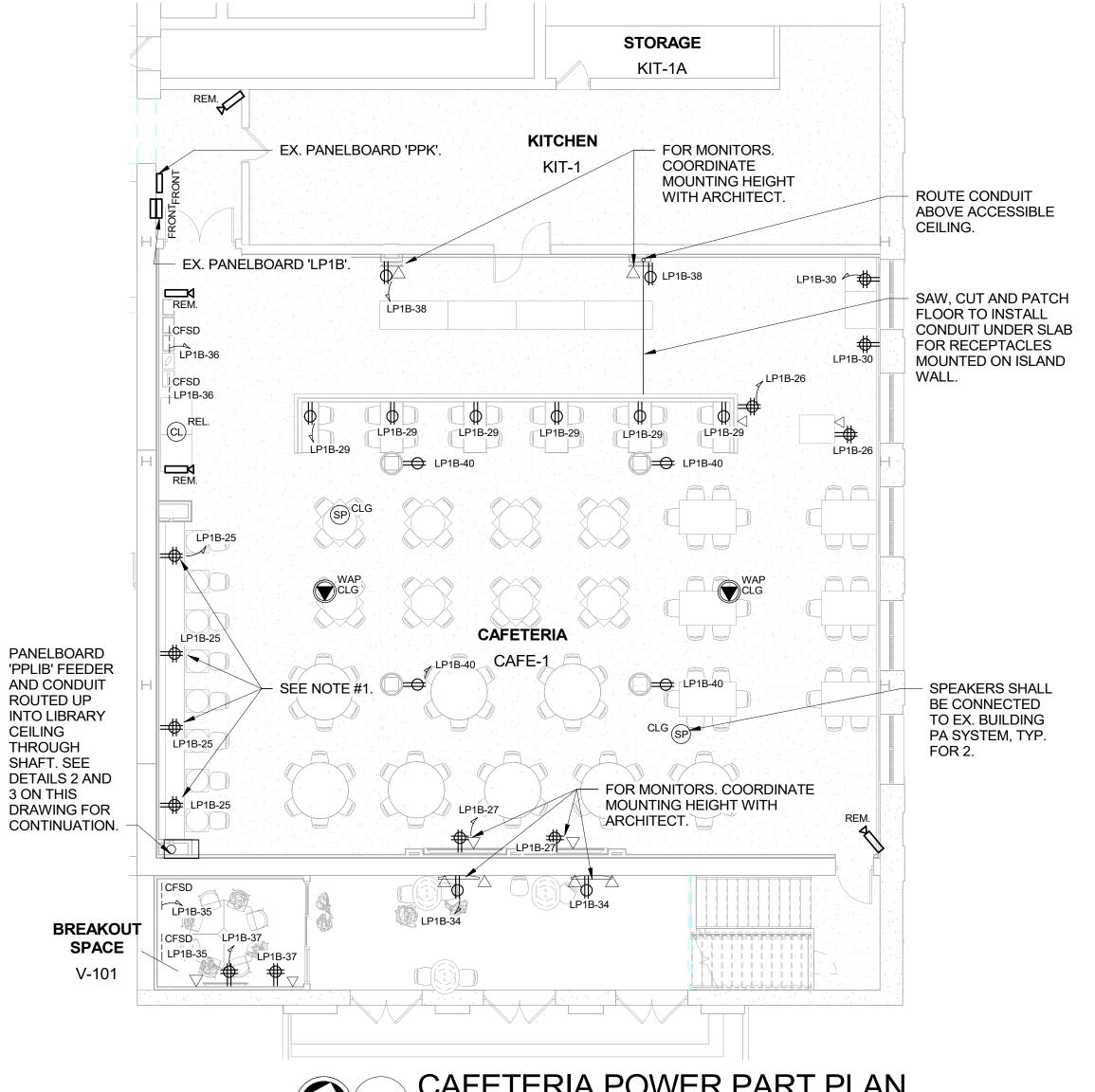
ELECTRICAL ROOF **NEW WORK PLAN**

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1. RECEPTACLES AT PERIMETER BENCH SHALL BE INSTALLED UNDER BENCH COORDINATE HEIGHT WITH ARCHITECT. CONTRACTOR SHALL PROVIDE MOCKETT PCS82D (2 POWER, 1 USB-A, 1 USB-C RECEPTACLES) MOUNTED IN BOOTH DESKTOP. COORDINATE INSTALLATION WITH ARCHITECT.

2.) ELECTRICAL CONTRACTOR SHALL WIRE (1) CAT6 CABLE TO EACH DATA POINT SHOWN FROM AN EXISTING DATA RACK IN DATA ROOM 214. SEE DRAWING E302 FOR LOCATION. CAT6 CABLE SHALL BE PLENUM RATED WITHIN PLENUM CEILINGS. ELECTRICAL CONTRACTOR SHALL PROVIDE (2) 48 PORT CAT6 PATCH PANELS FOR INSTALLATION IN EX. DATA RACKS. TERMINATIONS AT DATA POINT AND PATCH PANEL BY ELECTRICAL CONTRACTOR. RJ45 JACKS AND COVER PLATES TO BE PROVIDED BY THE ELECTRICAL CONTRACTOR. TEST AND LABEL EACH END OF CAT6 CABLE.



TUCKAHOE MIDDLE/HIGH SCHOOL ALTERATIONS

TUCKAHOE UNION FREE SCHOOL DISTRICT

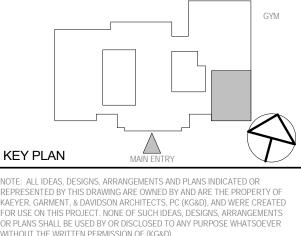




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ELECTRICAL CAFETERIA & LIBRARY POWER PART PLAN

Job No. NKGD0239.00 Scale AS NOTED

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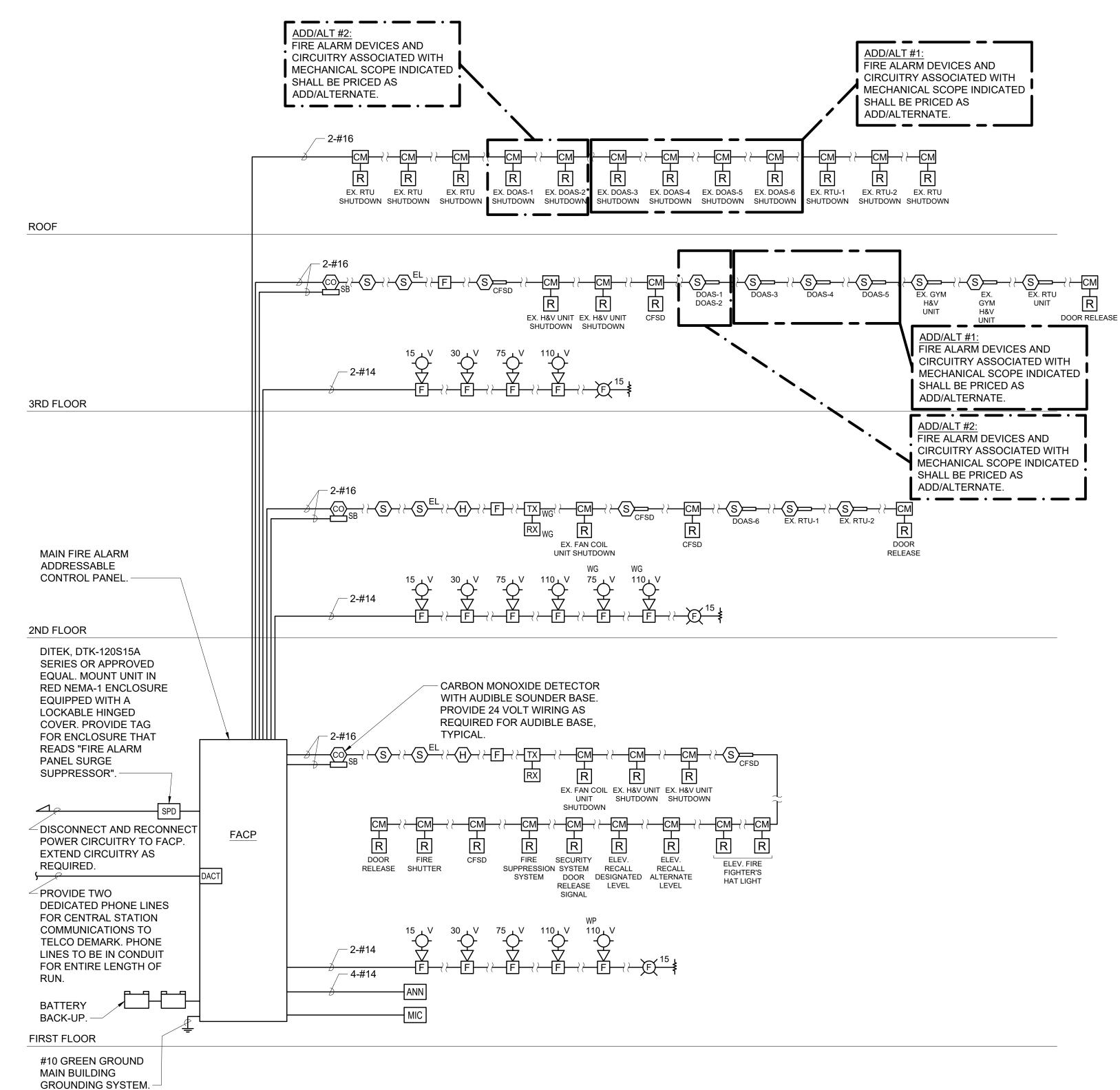
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CAFETERIA POWER PART PLAN

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



- 1. THIS IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANY WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM FIRE ALARM SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.
- 2. ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL 120V CIRCUITS THAT ARE REQUIRED TO SUPPORT THE OPERATION OF THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH THE FIRE ALARM VENDOR.
- 3. QUANTITY OF STROBE BOOSTER POWER SUPPLY PANELS AND ASSOCIATED 120V CIRCUITS SHALL BE COORDINATED WITH SELECTED FIRE ALARM SYSTEM MANUFACTURER AND/OR FIRE ALARM VENDOR.
- 4. PROVIDE ALL NECESSARY WIRING, MODULES, COMPONENTS, EXTENDER CABINET, AND PROGRAMMING.
- 5. PROVIDE ALL NECESSARY HARDWARE AND PROGRAMMING TO PROVIDE THE CLIENT WITH 20% SPARE CAPACITY ON ALL INITIATING AND INDICATING CIRCUITS.
- PROVIDE AS PART OF THE BASE CONTRACT ALL LABOR AND MATERIALS TO INSTALL TWENTY (20) ADDITIONAL FIRE ALARM DEVICES DURING CONSTRUCTION. THE ADDITIONAL FIRE ALARM DEVICES CAN BE BUT NOT LIMITED TO SMOKE DETECTOR, HEAT DETECTOR, DOOR HOLDER, DUCT DETECTOR, FAN SHUTDOWN, TAMPER SWITCHES, FLOW SWITCHES, ETC. INCLUDE ALL LABOR AND MATERIALS INCLUDING WIRE, BOXES, CONDUIT, TERMINATIONS, HARDWARE, SOFTWARE, PROGRAMMING AND TESTING.
- DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT WORK BY MECHANICAL CONTRACTOR.
- 8. CARBON MONOXIDE DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM AND SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE DETECTORS SHALL BE MOUNTED ON SOUNDER BASES WHICH PROVIDE LOCAL ALARM ONLY IN A TEMPORAL 4 PATTERN OR CONSTANT TONE.
- 9. ELECTRICAL CONTRACTOR TO PROVIDE A RELAY FOR EACH SMOKE DAMPER/COMBINATION FIRE SMOKE DAMPER. RELAYS ARE NOT SHOWN ON PLANS FOR CLARITY.
- 10. DOOR HOLDERS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.
- 11. MAINTAIN A 19" TO 24" CLEARANCE AROUND THE CENTERLINE OF THE BEAM OF BEAM TYPE SMOKE DETECTORS.
- 12. PROVIDE REMOTE LED INDICATORS FOR ALL CONCEALED FIRE ALARM DEVICES SUCH AS DUCT SMOKE DETECTORS, ABOVE CEILING SMOKE DETECTORS, ELEVATOR SHAFT DETECTORS, MONITORING AND CONTROL MODULES, ETC. LED INDICATORS FOR DEVICES MOUNTED ABOVE DROP CEILINGS SHALL BE MOUNTED BELOW ASSOCIATED DEVICES. LABEL INDICATORS TO INDICATE DEVICE SERVED.
- 13. CONTRACTOR TO PROVIDE SMOKE DETECTOR(S) IN ALL LOCATIONS CONTAINING FIRE ALARM CONTROL PANELS, DATA GATHERING PANELS, BOOSTER POWER SUPPLIES, OR ANY OTHER FIRE ALARM SYSTEM PANEL, WHETHER SHOWN ON PLANS OR NOT.
- 14. CONTROL MODULES USED TO INITIATE EMERGENCY CONTROL FUNCTIONS THAT DO NOT FAIL IN A SAFE POSITION SHALL BE LOCATED WITHIN 3 FEET OF THE COMPONENT CONTROLLING THE EMERGENCY CONTROL FUNCTION PER NFPA 72. THIS INCLUDES, BUT IS NOT LIMITED TO, CONTROL MODULES CONNECTED TO FAN MOTOR CONTROLLERS, ELEVATOR CONTROLLERS, ETC.
- 15. BATTERY BACKUP FOR FACP SHALL PROVIDE A MINIMUM OF 24 HOURS OF STAND BY POWER FOLLOWED BY 45 MINUTES OF ALARM.
- 16. ALL FIRE ALARM PANELS, JUNCTION BOX COVERS, ETC SHALL BE PAINTED "FIRE DEPARTMENT RED".



FIRE ALARM RISER DIAGRAM

TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

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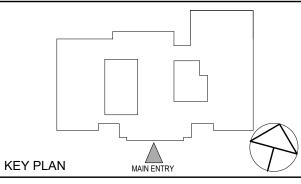
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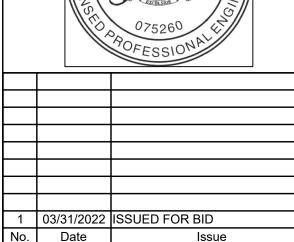


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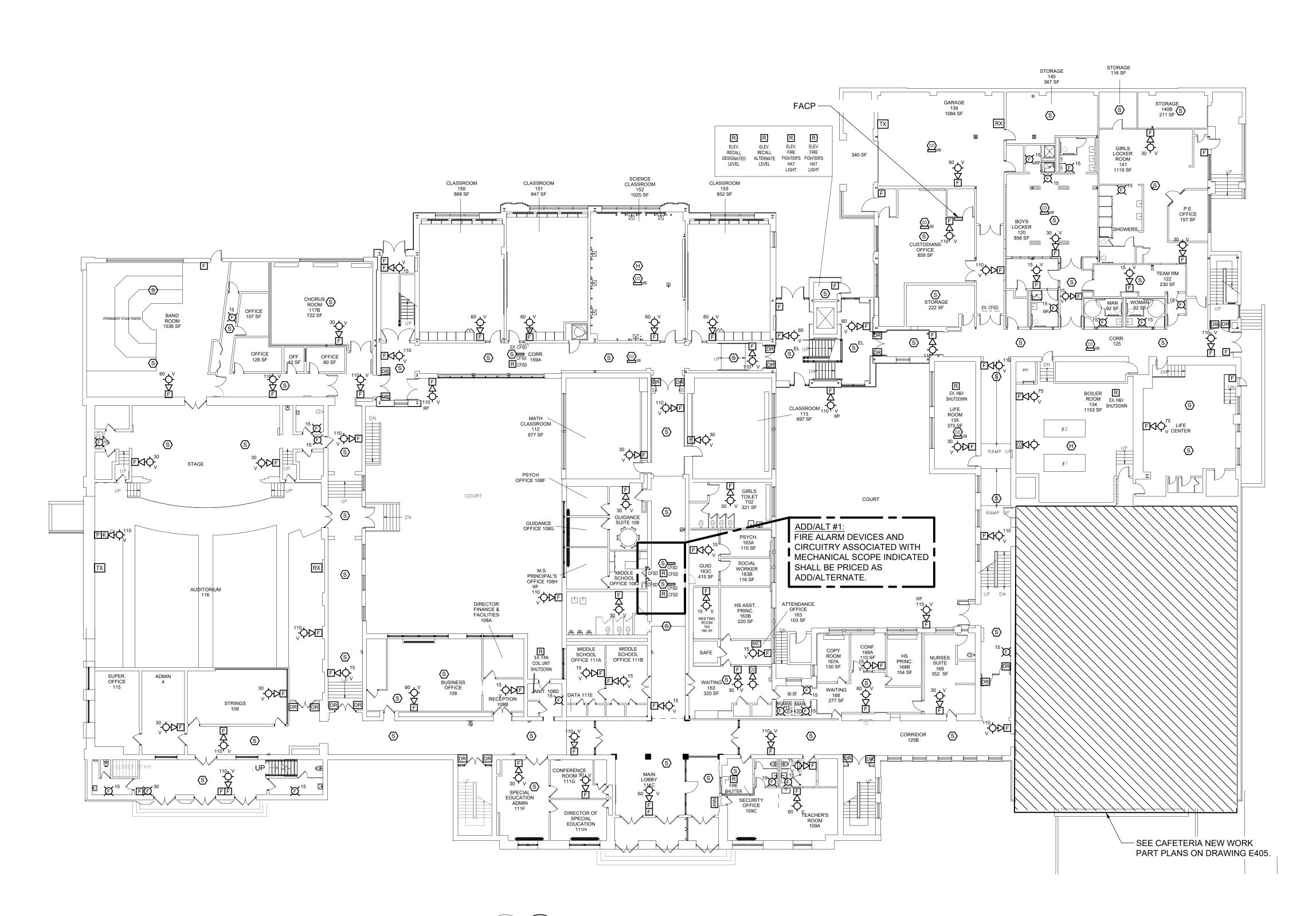


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FIRE ALARM RISER AND NOTES

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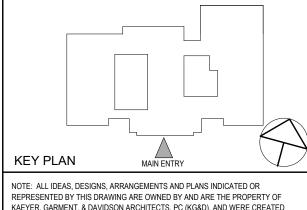
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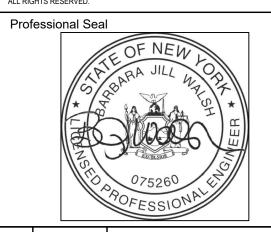
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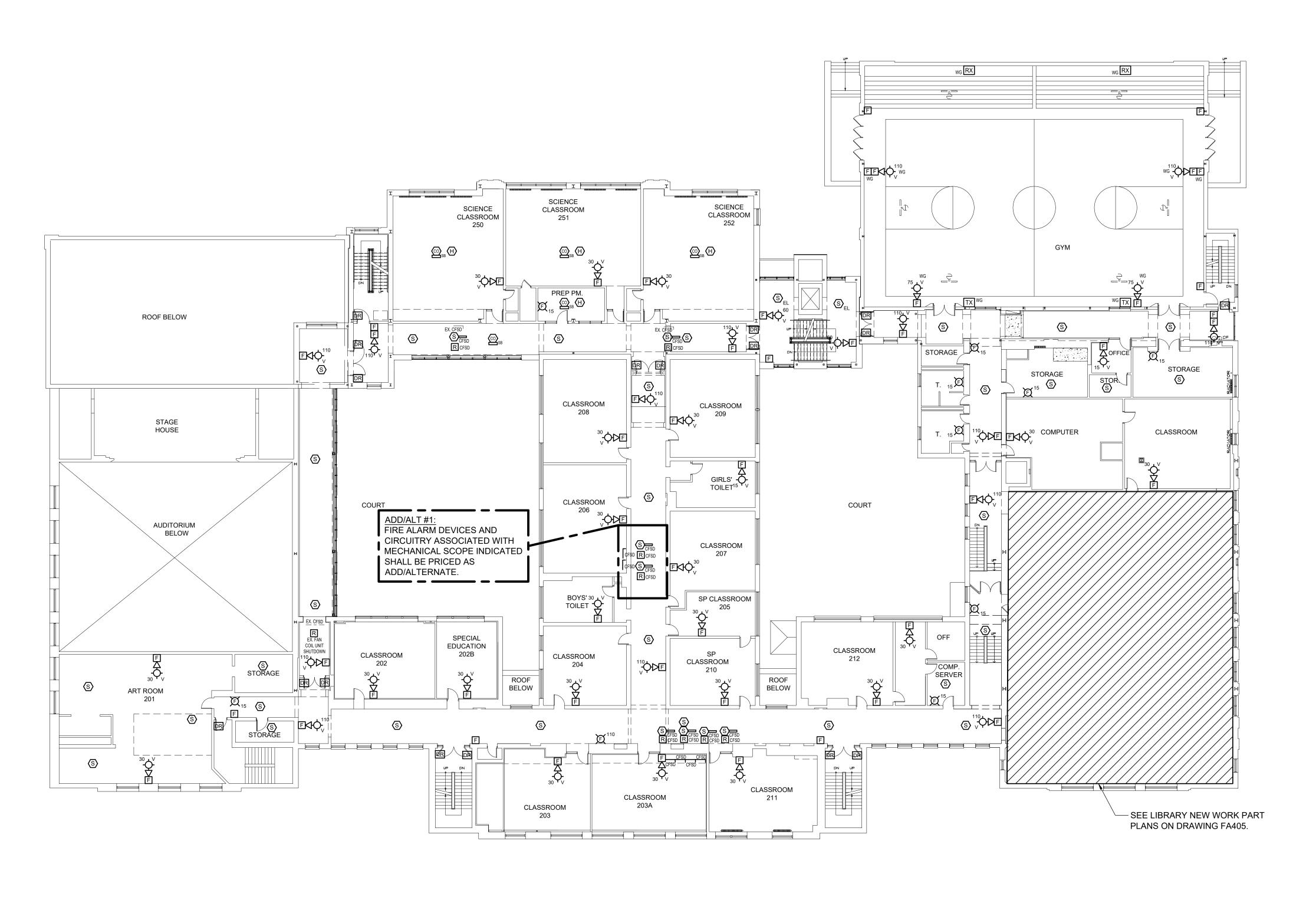


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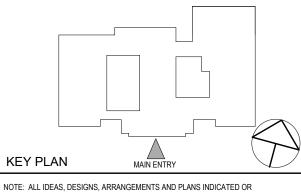
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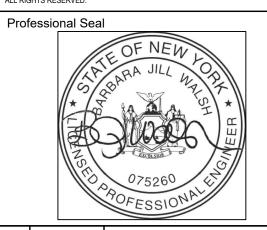


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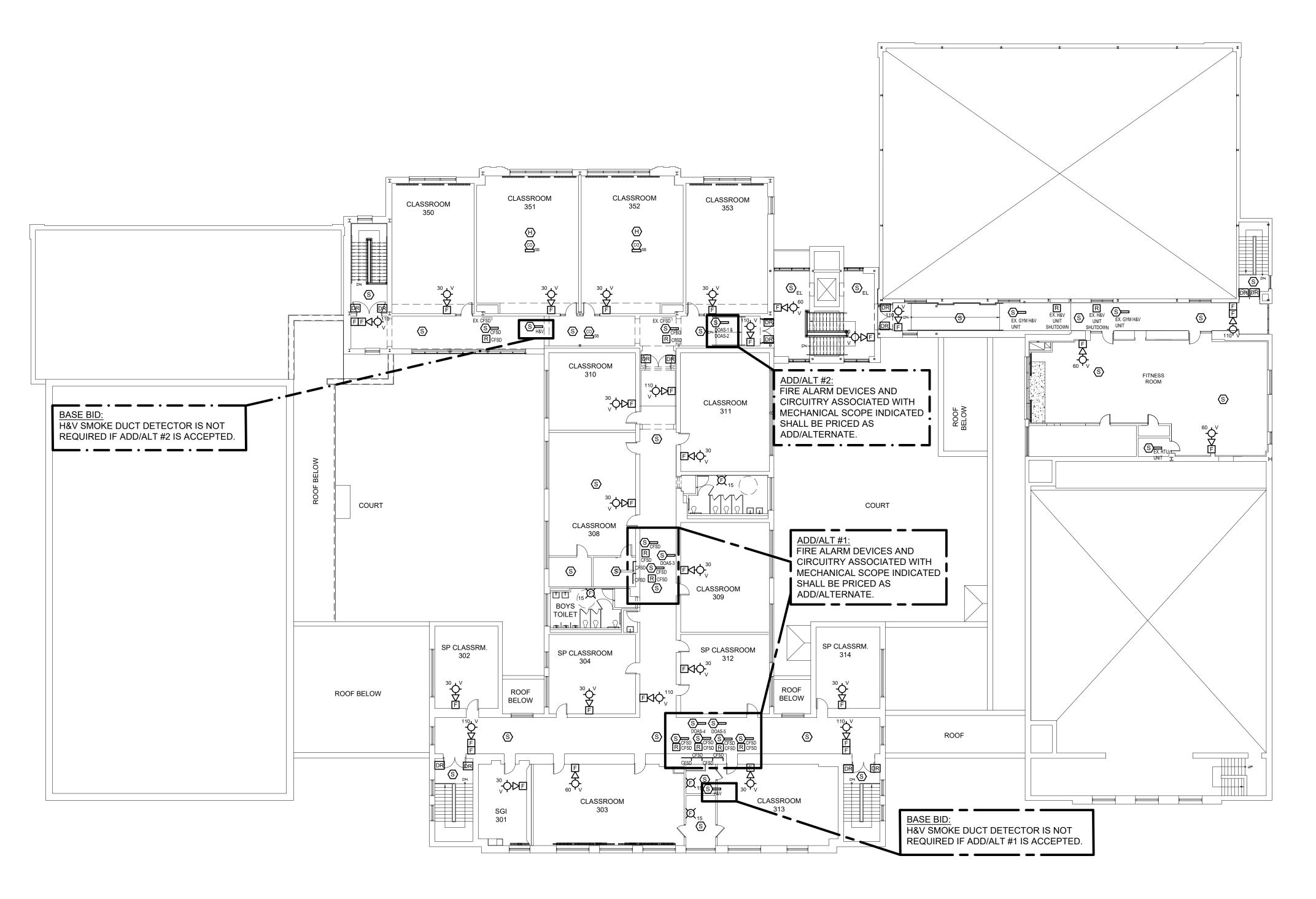


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FIRE ALARM SECOND FLOOR NEW WORK PLAN

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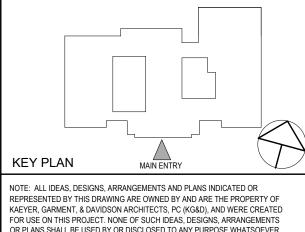
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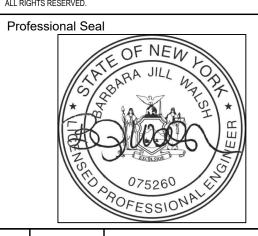
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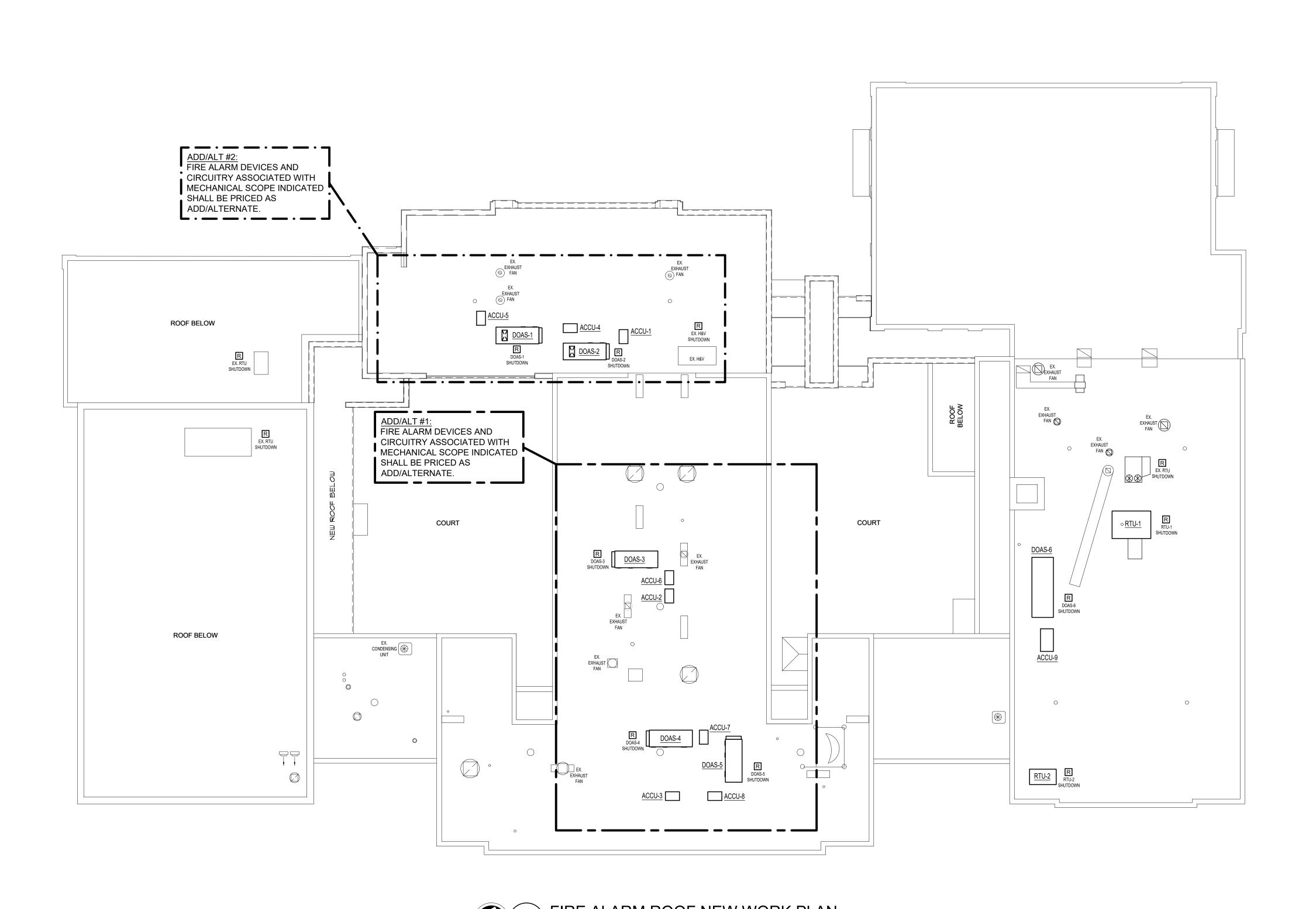
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FIRE ALARM THIRD

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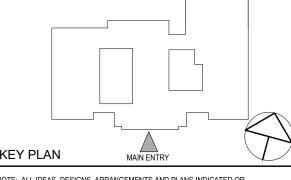
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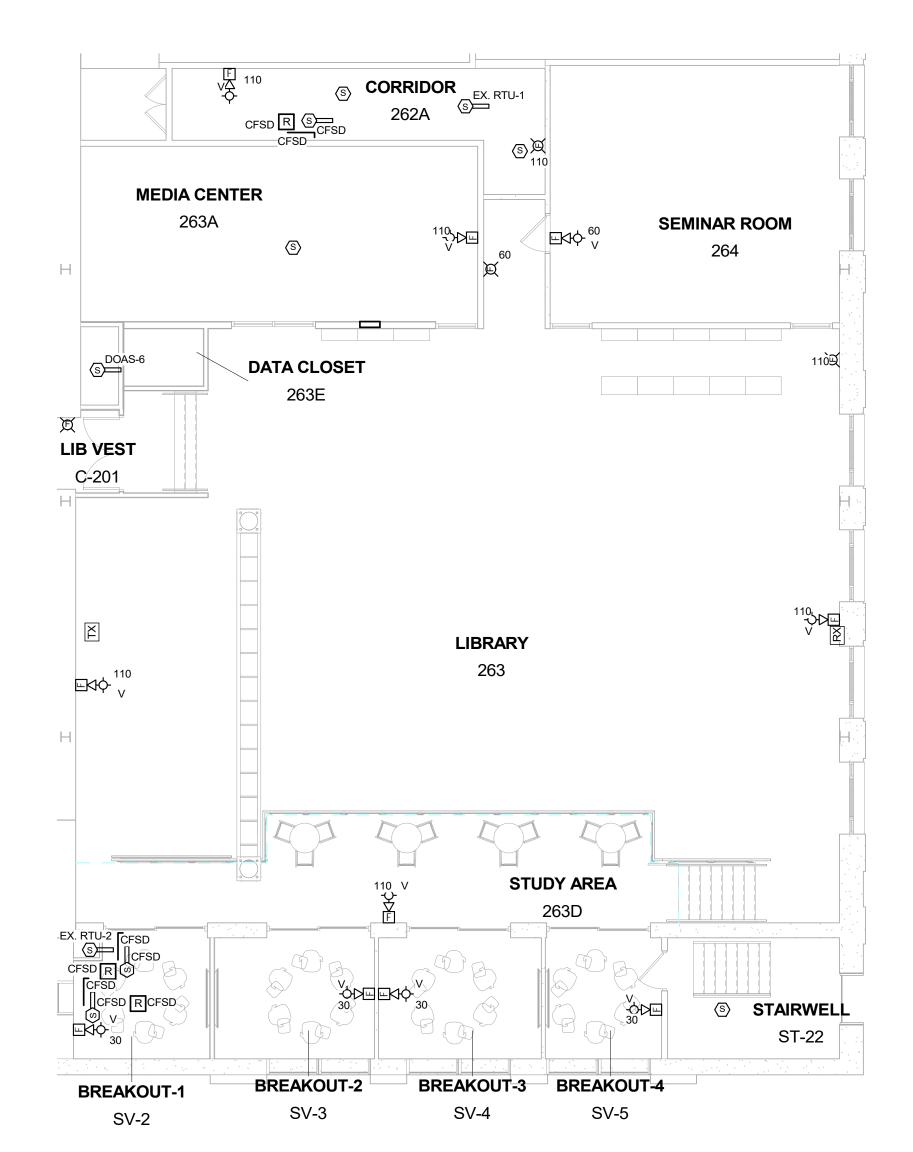
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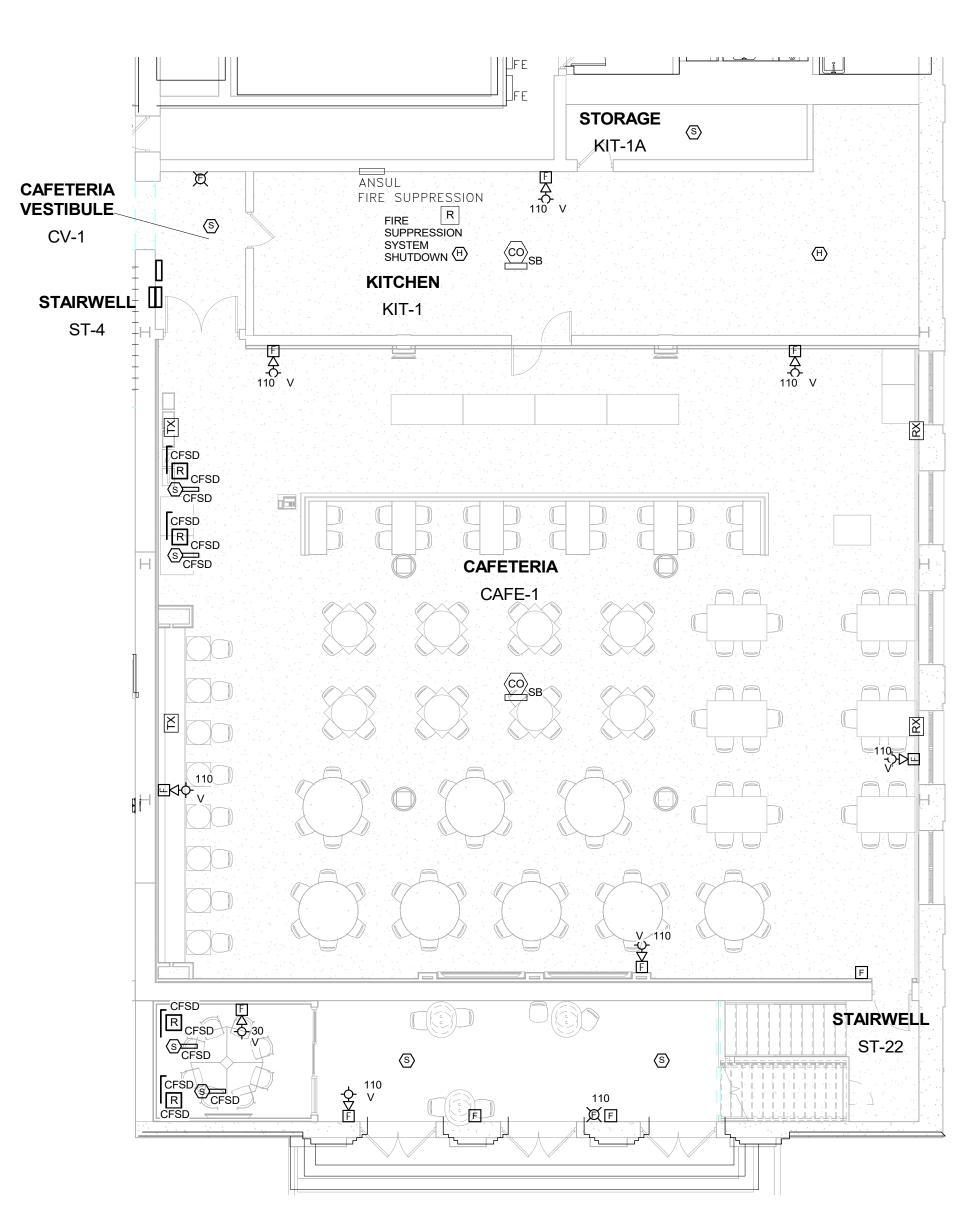
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No.	Date	Issue
She	et Title	

FIRE ALARM ROOF **NEW WORK PLAN**

Job No.	Date
NKGD0239.00	09/10/2021
	Drawn / Checked
AS NOTED	VB / ML
Sheet Number	









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SCHOOL DISTRICT
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EAST CHESTER N V 107

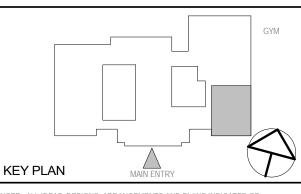


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NY SED PROJECT CONTROL NO.

CONSTRUCTION DOCUMENTS



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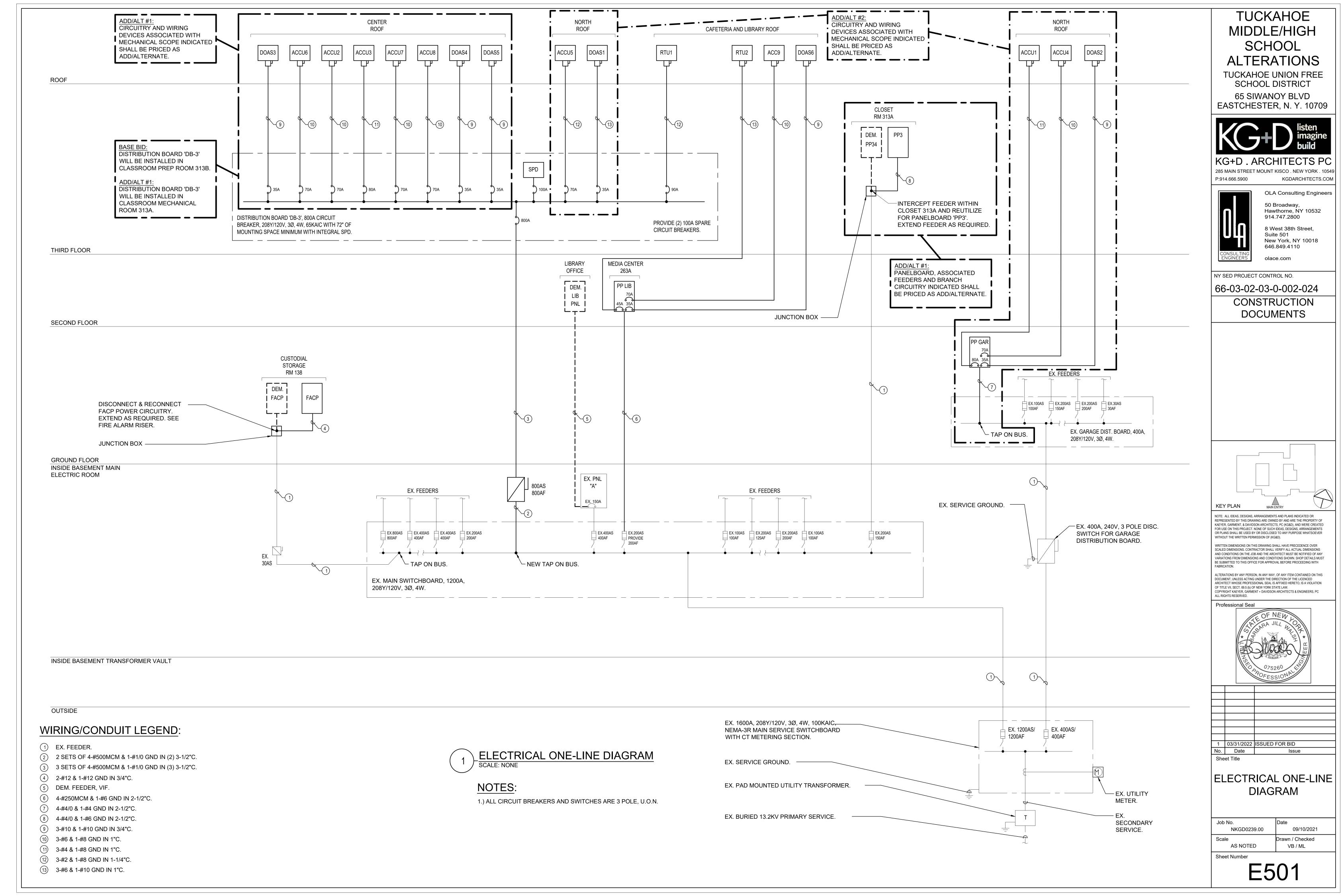
FIRE ALARM
CAFETERIA AND
LIBRARY PART PLANS

Job No. NKGD0239.00 Scale AS NOTED

09/10/2021

Drawn / Checked

Author Checker



LIGHTING SYSTEM FUNCTIONAL TESTING/COMMISSIONING

I. FUNCTIONAL TESTING

PRIOR TO PASSING FINAL INSPECTION, THE CONTRACTOR SHALL PROVIDE EVIDENCE TO THE BUILDING OWNER AND THE ENGINEER THAT THE LIGHTING CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE THAT CONTROL HARDWARE AND SOFTWARE ARE CALIBRATED, ADJUSTED, PROGRAMMED AND IN PROPER WORKING CONDITION IN ACCORDANCE WITH THE CONSTRUCTION DOCUMENTS AND MANUFACTURER'S DOCUMENTS. FUNCTIONAL TESTING, FOR THE APPLICABLE CONTROL TYPE, SHALL BE IN ACCORDANCE WITH THE FOLLOWING:

1. OCCUPANT SENSOR CONTROLS

WHERE OCCUPANT SENSOR CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE

- A. CERTIFY THAT THE OCCUPANT SENSOR HAS BEEN LOCATED AND AIMED IN ACCORDANCE WITH MANUFACTURER RECOMMENDATIONS.
- B. FOR PROJECTS WITH SEVEN OF FEWER OCCUPANT SENSORS, EACH SENSOR SHALL BE TESTED.
- C. FOR PROJECTS WITH MORE THAN SEVEN OCCUPANT SENSORS, TESTING SHALL BE DONE FOR EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY. WHERE MULTIPLES OF EACH UNIQUE COMBINATION OF SENSOR TYPE AND SPACE GEOMETRY ARE PROVIDED, NOT LESS THAN 10 PERCENT BUT IN NO CASE LESS THAN ONE, OF EACH COMBINATION SHALL BE TESTED UNLESS THE BUILDING OFFICIAL OR DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED. WHERE 30 PERCENT OR MORE OF THE TESTED CONTROLS FAIL, ALL REMAINING IDENTICAL COMBINATIONS SHALL BE TESTED.

FOR OCCUPANT SENSOR CONTROLS TO BE TESTED, VERIFY THE FOLLOWING:

- i. WHERE OCCUPANT SENSOR CONTROLS INCLUDE STATUS INDICATORS, VERIFY
- CORRECT OPERATION.
- ii. THE CONTROLLED LIGHTS TURN OFF OR DOWN TO THE PERMITTED LEVEL WITHIN THE REQUIRED TIME. iii. FOR AUTO-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON TO THE PERMITTED LEVEL WHEN AN OCCUPANT ENTERS THE SPACE.
- iv. FOR MANUAL-ON OCCUPANT SENSOR CONTROLS, THE LIGHTS TURN ON ONLY WHEN MANUALLY ACTIVATED.
- v. THE LIGHTS ARE NOT INCORRECTLY TURNED ON BY MOVEMENT IN ADJACENT AREAS OR BY HVAC OPERATION.
- 2. TIME-SWITCH CONTROLS

WHERE TIME-SWITCH CONTROLS ARE PROVIDED, THE FOLLOWING PROCEDURES SHALL BE PERFORMED:

- A. CONFIRM THAT THE TIME-SWITCH CONTROL IS PROGRAMMED WITH ACCURATE WEEKDAY, WEEKEND AND HOLIDAY SCHEDULES.
- B. PROVIDE DOCUMENTATION TO THE OWNER OF TIME-SWITCH CONTROLS PROGRAMMING INCLUDING WEEKDAY, WEEKEND, HOLIDAY SCHEDULES, AND SET-UP AND PREFERENCE PROGRAM SETTINGS.
- C. VERIFY THE CORRECT TIME AND DATE IN THE TIME SWITCH.
- VERIFY THAT ANY BATTERY BACK-UP IS INSTALLED AND ENERGIZED.
- E. VERIFY THAT THE OVERRIDE TIME LIMIT IS SET TO NOT MORE THAN 2 HOURS.
- F. SIMULATE OCCUPIED CONDITION. VERIFY AND DOCUMENT THE FOLLOWING:
- ALL LIGHTS CAN BE TURNED ON AND OFF BY THEIR RESPECTIVE AREA CONTROL SWITCH. ii. THE SWITCH ONLY OPERATES LIGHTING IN THE ENCLOSED SPACE IN WHICH THE SWITCH IS LOCATED.
- G. SIMULATE UNOCCUPIED CONDITION, VERIFY AND DOCUMENT THE FOLLOWING:
- i. NONEXEMPT LIGHTING TURNS OFF.
- ii. MANUAL OVERRIDE SWITCH ALLOWS ONLY THE LIGHTS IN THE ENCLOSED SPACE WHERE THE OVERRIDE SWITCH IS LOCATED TO TURN ON OR REMAIN ON UNTIL THE NEXT SCHEDULED SHUTOFF

3. DAYLIGHT RESPONSIVE CONTROLS

WHERE DAYLIGHT RESPONSIVE CONTROLS ARE PROVIDED, THE FOLLOWING SHALL BE VERIFIED:

- A. CONTROL DEVICES HAVE BEEN PROPERLY LOCATED, FIELD CALIBRATED AND SET FOR ACCURATE SET POINTS AND THRESHOLD LIGHT LEVELS.
- B. DAYLIGHT CONTROLLED LIGHTING LOADS ADJUST TO LIGHT LEVEL SET POINTS IN RESPONSE TO AVAILABLE DAYLIGHT.
- C. THE CALIBRATION ADJUSTMENT EQUIPMENT IS LOCATED FOR READILY ACCESS ONLY BY AUTHORIZED PERSONNEL.
- II. DOCUMENTATION REQUIREMENTS

THE DOCUMENTS DESCRIBED IN THIS SECTION SHALL BE PROVIDED TO THE BUILDING OWNER OR OWNER'S AUTHORIZED AGENT WITHIN 60 DAYS OF THE DATE OF RECEIPT OF THE CERTIFICATE OF OCCUPANCY.

- A. DRAWINGS:
- i. AS-BUILT CONSTRUCTION DOCUMENTS, SHOWING THE LOCATION AND CATALOG NUMBER OF EACH
- B. MANUALS: AN OPERATING AND MAINTENANCE MANUAL SHALL BE PROVIDED AND INCLUDE THE FOLLOWING:
- i. NAME AND ADDRESS OF NOT LESS THAN ONE SERVICE AGENCY FOR INSTALLED EQUIPMENT.
- ii. A NARRATIVE OF HOW EACH SYSTEM IS INTENDED TO OPERATE, INCLUDING RECOMMENDED SET
- iii. SUBMITTAL DATA INDICATING ALL SELECTED OPTIONS FOR EACH PIECE OF LIGHTING EQUIPMENT AND LIGHTING CONTROLS.
- iv. OPERATION AND MAINTENANCE MANUALS FOR EACH PIECE OF LIGHTING EQUIPMENT. REQUIRED ROUTINE MAINTENANCE ACTIONS, CLEANING AND RECOMMENDED RELAMPING SHALL BE CLEARLY
- v. A SCHEDULE FOR INSPECTING AND RECALIBRATING ALL LIGHTING CONTROLS.
- C. REPORT: A REPORT OF TEST RESULTS SHALL BE PROVIDED AND INCLUDE THE FOLLOWING.
- RESULTS OF FUNCTIONAL PERFORMANCE TESTS.
- ii. DISPOSITION OF DEFICIENCIES FOUND DURING TESTING, INCLUDING DETAILS OF CORRECTIVE MEASURES USED OR PROPOSED.

FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	MOUNTING	LUMENS	REMARKS
А	BETACALCO LIGHTING	AAY7-DA30-D830-J308 -K000-P4-CQ1-D1-F42 -E2-WO-APOO	(1) 86W LED	120V	PENDANT	300LM/FT	48" MIDI ARC RING LIGHT FIXTURE, POLISHED ALUMINUM MIRROR FINISH. DIRECT/INDIRECT. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
A1	BETACALCO LIGHTING	AAY6-DA30-D830-J308 -K000-P4-CQ1-D1-F42 -E2-WO-APOO	(1) 64W LED	120V	PENDANT	300LM/FT	36" MIDI ARC RING LIGHT FIXTURE, POLISHED ALUMINUM MIRROR FINISH. DIRECT/INDIRECT
В	WILLIAMS LIGHTING	4DR-TL-L20-8-30-EM/7W -DIM-UNV-O-W-OF-CS -MWT-R-F1	(1) 19.8W LED	120V	RECESSED	200LM	4" DOWNLIGHT FIXTURE WITH OPEN REFLECTOR TRIM. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
C1	ALW LIGHTING	LP3.5RMUD-DRY-U4-28-4 -LOW*/80/3000K-0/10V/S -N-SW-UNV-EMB/4FT MOD WALL TO CEILING: WALL TO CEILING TO WALL, MOD 400 LM/FT	5.3W/FT LED	120V	RECESSED	600LM/FT	LIGHTPLANE 3.5" APERATURE, U-SHAPED LIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
C2	ALW LIGHTING	LP3.5RT-TGRID-S8 -MED/80/3000K-0/10V/S -N-SW-UNV-EMB/4FT	7.2W/FT LED	120V	RECESSED	825LM/FT	LIGHTPLANE 3.5" APERATURE, 8FT LENGTH LIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
D	ALW LIGHTING	LP5RT-TGRID-S8-LOW/80 /3000K-0/10V/S-N-SW -UNV-EMB-4FT	5.3W/FT LED	120V	RECESSED	600LM/FT	LIGHTPLANE 5" APERATURE, 8FT LENGTH LIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
E	INTER LUX LIGHTING	WG-60PTLP RBT S 225 930 REO 20x40 P1-E1-W-W-EM	3W/FT LED	120V	RECESSED	421LM/FT	PROTOOLS 60 LINEAR PERIMETER, 225" LENGTH LIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
F	NOVA FLEX LIGHTING	SEE NOTE #5 BELOW FOR MODEL NUMBERS.	3.7W/FT LED	120V	SURFACE	10-40LM/FT	RGB NEON ROUND SERIES 32" DIAMETER COVE LIGHT FIXTURE. PROVIDE POWER SUPPLY AS REQUIRED.
G1	ALW LIGHTING	MR1.5A/TS-D3-SS- MEDIUM/80/3000-0/10V/S- N-N-AMW-DCSTM-SG-GO -UNV-EMB	(1) 54W LED	120V	PENDANT	3375LM	MOONRING 1.5" APERATURE, 36" DIAMETER LIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
G2	ALW LIGHTING	MR1.5A/TS-D2-SS- MEDIUM/80/3000- 0/10V/S-N-N-AMW-DCSTM -SG-SB -UNV-EMB	(1) 35W LED	120V	PENDANT	2250LM	MOONRING 1.5" APERATURE, 24" DIAMETER LIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
H1	BETACALCO LIGHTING	TLCP1P-SFA10-SL04 -LPF080-LPG000-CR80 -CTA30-DD2-UD0-UB00 -V1-DA01-G1-HLA03-FA20 -CF01-E1_4FT-CS1-SR00	5W/FT LED	120V	PENDANT	800LM	TUNNEL 10FT LENGTH LIGHT FIXTURE WITH WHITE FINISH. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
H2	BETACALCO LIGHTING	TLCP1P-SFA16-SL04- LPF080-LPG000-CR80 -CTA30-DD2-UD0-UB00 -V1-DA01-G1-HLA03-FA20 -CF01-E1_4FT-CS1-SR00	5W/FT LED	120V	PENDANT	800LM	TUNNEL 16FT LENGTH LIGHT FIXTURE WITH WHITE FINISH. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
J	WILLIAMS LIGHTING	4DS-L15-8-30-EM/7W-DIM -UNV-L-M-SF-WH-I-F1	(1) 17.4W LED	120V	RECESSED	1667LM	4Ds 4.5" DOWNLIGHT, SQUARE LIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
K	LIGHTOLIER BY SIGNIFY	FD-4R-4CCT-30 FD-4NCP	(1) 11W LED	120V	RECESSED	700LM	LIGHTOLIER LED FLAT DOWNLIGHT LIGHT FIXTURE.
М	WILLIAMS LIGHTING	SQR-G-22-L42/835-F- FG125-EM/10W-DIM-UNV	(1) 46.3W LED	120V	RECESSED	4153LM	SQR 2X2 LED SQUARE TROFFER LIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM AS INDICATED ON PLANS.
N	LITHONIA LIGHTING	FEM-L48-4000LM- IMACD-120-35K- 80CRI-BSL722	(1) 31W LED	120V	SURFACE	4000LM	4' LED LINEAR LIGHT FIXTURE. WHERE INDICATED "EM" ON PLAN PROVIDE EMERGENCY OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM.
	LITHONIA LIGHTING	EDGR-1-R-EL	EXIT - LED 3.8W	120V	RECESSED CEILING MOUNTED		LED EXIT SIGN WITH 90 MINUTES OF BATTERY BACKUP TIME. 8" RED LETTERS ON CLEAR BACKGROUND. TRIM SHALL BE RECESSED AND FLAT.
YXY	LITHONIA	LHQM-LED-R	EXIT - LED EBL-(2) 1.5W LED	120V	SURFACE		COMBINATION EXIT SIGN/EMERGENCY LIGHT WITH 90 MINUTES OF BATTERY BACKUP TIME, MIN. RED LETTERING ON WHITE BACKGROUND, WHITE THERMO PLASTIC HOUSING.
Y NP	LITHONIA	WLTC-1-R-SD-TPS-CW	EXIT - LED EBL-(2) 1.5W LED	120V	SURFACE		WET LOCATION, COLD WEATHER RATED COMBINATION EXIT SIGN/EMERGENCY LIGHT WITH 90 MINUTES OF BATTERY BACKUP TIME, MIN. RED LETTERING ON WHITE BACKGROUND, WHITE THERMO PLASTIC HOUSING.
	LITHONIA LIGHTING	ELM2-LED-M12	(2) 1.5W LED HEADS	120V	SURFACE		TWIN SPOT WALL MOUNTED EMERGENCY LIGHT WITH BATTERY BACK UP FOR 90 MINS MINIMUM.

LIGHTING FIXTURE SCHEDULE

NOTES:

1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.

2.) LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK-UP BATTERY WHERE POSSIBLE THE SHALL BE INTERNAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE FIXTURE SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.

3.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.

4.) IN THE EVENT THE CONTRACTOR CHOOSES TO SUBSTITUTE LIGHT FIXTURES FOR THOSE THAT ARE SPECIFIED ON THE LIGHT FIXTURE SCHEDULE, THE CONTRACTOR SHALL SUBMIT POINT-TO-POINT PHOTOMETRIC CALCULATIONS FOR ALL AREAS WHERE THE SUBSTITUTED FIXTURES ARE INDICATED TO BE INSTALLED ON THE DRAWINGS. THESE CALCULATIONS SHALL BE SUBMITTED ALONG WITH THE LIGHT FIXTURE SHOP DRAWINGS. 5.) FIXTURE TYPE F COMPONENT MODEL NUMBERS:

- NF-NEON-W-ROUND 24V-RGB : Neon Flex RGB 24v
- NF-C-NEON-RGB-3M-01 : Neon Flex RGB 01 Snap Front Connector
- NF-C-NEON-ROUND-EC-02: Neon Flex End Cap, 02 End
- NF-PS-60W-24V-HW: 60 Watt 24 Volt Hardware Power Supply NF-S3i-WR-1009 : LED Receiver RF
- NF-A-UNV: Universal Amplifier
- NF-CH-NEON-ROUND-SL-CLIP: .035 Self Locking Aluminum Profile with 1 clip and 2 screws NF-S3i-WC-RGB/W: RGB or RGB/W Control Handheld

TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD



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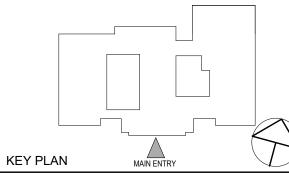
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| 66-03-02-03-0-002-024

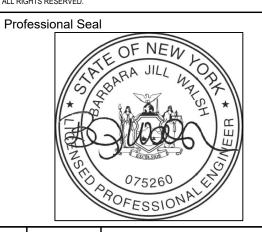
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1 03/31/2022 ISSUED FOR BID No. Date

Sheet Title

Sheet Number

ELECTRICAL SCHEDULES

09/10/2021 NKGD0239.00 Scale Orawn / Checked AS NOTED VB / ML

	MAIN RATING: 225A	MA	IN C.B.:	<u>225A</u>		KAIC RATING: 22KAIC	
	VOLTAGE: <u>208Y/120V</u>	PH.	ASE: <u>3</u>	WI	RE: <u>4</u>	MOUNTING: SURFACE	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1							2
3	ACCU1	80	3	3	20	DOAS2	4
5							6
7				1	20	REC - ROOF	8
9	ACCU4	70	3	-	-	-	10
11				-	-	-	12
13	-	-	-	-	-	1	14
15	-	-	-	-	-	1	16
17	-	-	-	-	-	-	18
19	_	-	-	-	-	-	20
21	-	-	-	-	-	-	22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	SPARE	30

ADD/ALT #2: PANELBOARD, ASSOCIATED FEEDERS AND BRANCH CIRCUITRY INDICATED SHALL BE PRICED AS ADD/ALTERNATE.

	L/\. [_1 10				EDULE	
	MAIN RATING: 100A	MA	IN C.B.:	<u>100A</u>			
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: <u>3</u>	WI	RE: <u>4</u>	MOUNTING: RECESSED	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC NO.
1	EX. LOAD	20	1	1	20	EX. LOAD	2
3	EX. LOAD	20	1	1	20	EX. LOAD	4
5	EX. LOAD	20	1	1	20	EX. LOAD	6
7	EX. LOAD	20	1	1	20	EX. LOAD	8
9	EX. LOAD	20	1	1	20	EX. LOAD	10
11	EX. LOAD	20	1	1	20	EX. LOAD	12
13	EX. LOAD	20	1	1	20	EX. LOAD	14
15	EX. LOAD	20	1	1	20	EX. LOAD	16
17	EX. LOAD	20	1	1	20	EX. LOAD	18
19	EX. LOAD	20	1	1	20	EX. LOAD	20
21	EX. LOAD	20	1	1	20	EX. LOAD	22
23	EX. LOAD	20	1	1	20	EX. LOAD	24
25	REC - CAFETERIA	20*	1	1	20*	REC - CAFETERIA CASH REGISTER	26
27	REC - CAFETERIA MONITORS	20*	1	1	20*	REC - CAFETERIA MONITORS	28
29	REC - CAFETERIA	20*	1	1	20*	REC - CAFETERIA	30
31	LTG - CAFETERIA	20*	1	1	20*	LTG - CAFETERIA	32
33	LTG - CAFETERIA	20*	1	1	20*	REC - TV MONITOR	34
35	CFSD	20#	1	1	20#	CFSD	36
37	BREAKOUT V-101	20#	1	1	20#	REC - CAF TV	38
39	SPARE	20	1	1	20#	REC - CAF	40
41	SPARE	20	1	1	20	SPARE	42

* - CONTRACTOR SHALL PROVIDE 1P-20A CB.
 # - CONTRACTOR SHALL REUTILIZE 1P-20A CB FOR LOAD INDICATED ON DRAWINGS.

EX. LPSP1 PANEL SCHEDULE										
MAIN RATING: 125A MAIN C.B.: 100A										
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: <u>3</u>	WI	RE: <u>4</u>	MOUNTING: RECESSED				
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.			
1	EX. REC - SECURITY 109C	20	1	2	15	EX. ACC-1	2			
3	EX. LTG - SECURITY 109C	20	1		15	EX. ACC-1	4			
5	EX. DOOR RELEASE VESTIBULE V-1	20	1	1	20	EX. REC - ACC-1	6			
7	EX. MOTORIZED DAMPER	15	1	1	20	EX. REC - BATHROOM 109D	8			
9	EX. JBOX - TEACHER'S ROOM	20	1	1	20	EX. REC - TEACHER'S ROOM	10			
11	EX. REC - TEACHER'S ROOM	20	1	2	15*	AC 2-1 & AC 2-2 - 1ST FLR	12			
13	AC 1-1 & AC 1-2 - 1ST FLR	15*	2				14			
15				1	20#	HVAC CONTROLS	16			
17	AC 1-3 & AC 1-4 - 1ST FLR	15*	2	1	20#	HVAC CONTROLS	18			
19				1	20#	HVAC CONTROLS	20			
21	-	-	-	1	20#	CFSDS	22			
23	EX. SPARE	20	1	1	20	EX. SPARE	24			
25	EX. SPARE	20	1	1	20	EX. SPARE	26			
27	EX. SPARE	20	1	1	20	EX. SPARE	28			
29	EX. SPARE	20	1	1	20	EX. SPARE	30			
LK - P	LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP									

3. CONTRACTOR SHALL EXTEND BRANCH CIRCUITRY TO NEW PANELBOARD LOCATION, UON.

1. * - CONTRACTOR SHALL PROVIDE 2P-15A CB.

2. # - CONTRACTOR SHALL PROVIDE 1P-20A CB.

NOTES:

						DULE	
	MAIN RATING: 225A	MA	IN C.B.:	<u>200A</u>		KAIC RATING: 22KAIC	
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: <u>3</u>	WI	RE: <u>4</u>	MOUNTING: RECESSED	
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC NO.
1	REC - RM 263A	20	1	1	20	REC - RM 263	2
3	REC - DATA CLOSET 263C	20	1	1	20	REC - RM 263	4
5	REC - DATA CLOSET 263C	20	1	1	20	REC - RM 263	6
7	REC - RM 263	20	1	1	20	REC - RM SV-2/SV-3	8
9	REC - RM 263	20	1	1	20	REC - RM SV-4/SV-5	10
11	REC - RM 263	20	1	1	20	REC - STUDY AREA 263D	12
13	LTG - SV-2/3/4/5	20	1	1	20	REC - STUDY AREA 263D	14
15	LTG - RM 263/263D	20	1	1	20	REC - PROJECTOR	16
17	LTG - RM 263	20	1	1	20	LTG - RM 263A	18
19	LTG - RM 263	20	1	1	20	REC - PROJECTOR	20
21	REC - DATA ROOM	20	1	1	20	REC - ROOF	22
23	CFSD	20	1	1	20	REC - DATA CLOSER 263E	24
25	CFSD	20	1	1	20	REC - BREAKROOM 1 & 2	26
27	BREAKROOM MOTORIZED SHADES	20	1	1	20	REC - BREAKROOM 3 & 4	28
29	BREAKROOM MOTORIZED SHADES	20	1	1	20	REC - BREAKROOM 1 & 2	30
31	-	-	-	1	20	REC - BREAKROOM 3 & 4	32
33	-	-	-	-	-		34
35	SPARE	20	1	1	20	SPARE	36
37	SPARE	20	1	1	20	SPARE	38
39	SPARE	20	1	1	20	SPARE	40
41	SPARE	20	1	1	20	SPARE	42

	PP3 PANEL SCHEDULE								
	MAIN RATING: 225A	MA	IN C.B.:	<u>150A</u>		KAIC RATING: 22KAIC			
	VOLTAGE: <u>208Y/120V</u>	PH	ASE: <u>3</u>	WI	RE: <u>4</u>	MOUNTING: <u>SURFACE</u>			
CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.		
1	2ND FLR - AC 3-1/AC 3-2/AC 3-3/	15	2	2	15	3RD FLR - AC 1-8/AC 1-9/AC 1-10/	2		
3	AC 3-4					AC 1-11	4		
5	2ND FLR - AC 3-5/AC 3-6/AC 3-7/	15	2	2	15	3RD FLR - AC 2-8/AC 2-9/AC 2-10/	6		
7	AC 3-8					AC 2-11	8		
9	2ND FLR - AC 1-5/AC 1-6/ AC 1-7	15	2	2	15	3RD FLR - AC 3-9/AC 3-10/ AC 3-11	10		
11	AC 2-3						12		
13	2ND FLR - AC 2-4/AC 2-5/AC 2-6	15	2	2	15	3RD FLR - AC 3-12/AC 3-13/AC 3-14	14		
15	AC 2-7					AC 3-15	16		
17	HVAC CONTROLS	20	1	1	20	REC - ROOF	18		
19	HVAC CONTROLS	20	1	1	20	2ND FLR - CFSD	20		
21	HVAC CONTROLS	20	1	1	20	2ND FLR - CFSD	22		
23	HVAC CONTROLS	20	1	1	20	3RD FLR - CFSD	24		
25	HVAC CONTROLS	20	1	1	20	3RD FLR - CFSD	26		
27				2	25#	EX. LOAD	28		
29	EX. LOAD	30@	3				30		
31				1	20*	EX. LOAD	32		
33	EX. LOAD	25#	2	2	20#	EX. LOAD	34		
35							36		
37	EX. LOAD	20*	1	2	15#	EX. LOAD	38		
39	EX. LOAD	20*	1				40		
41	EX. LOAD	20*	1	1	15*	EX. LOAD	42		
43	EX. LOAD	15*	1	1	15*	EX. LOAD	44		
45	EX. LOAD	15*	1	1	15*	EX. LOAD	46		
47	EX. LOAD	15*	1	1	15*	EX. LOAD	48		
49	EX. LOAD	15*	1	-	-	-	50		
51	-	-	-	-	-	-	52		
53	SPARE	20	1	1	20	SPARE	54		
55	SPARE	20	1	1	20	SPARE	56		
57	SPARE	20	1	1	20	SPARE	58		
59	SPARE	20	1	1	20	SPARE	60		
LK - P	ROVIDE LOCKING TABS ON C.B.; GF	- GFI TY	PE C.B.						

1. * - CONTRACTOR SHALL PROVIDE 30' OF 2-#12 & 1-#12 GND IN 3/4"C TO EXTEND EX. BRANCH CIRCUITRY AS

REQUIRED FOR RELOCATED REPLACEMENT PANELBOARD.

2. # - CONTRACTOR SHALL PROVIDE 30' OF 2-#10 & 1-#10 GND IN 3/4"C TO EXTEND EX. BRANCH CIRCUITRY AS REQUIRED FOR RELOCATED REPLACEMENT PANELBOARD.

@ - CONTRACTOR SHALL PROVIDE 30' OF 3-#10 & 1-#10 GND IN 3/4"C TO EXTEND EX. BRANCH CIRCUITRY AS REQUIRED FOR RELOCATED REPLACEMENT PANELBOARD.

> ADD/ALT #1: PANELBOARD, ASSOCIATED FEEDERS AND BRANCH CIRCUITRY INDICATED SHALL BE PRICED AS ADD/ALTERNATE.

TUCKAHOE MIDDLE/HIGH SCHOOL **ALTERATIONS**

TUCKAHOE UNION FREE SCHOOL DISTRICT 65 SIWANOY BLVD



EASTCHESTER, N. Y. 10709

KG+D. ARCHITECTS PC 285 MAIN STREET MOUNT KISCO . NEW YORK . 10549 KGDARCHITECTS.COM



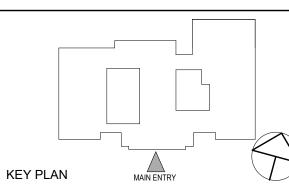
50 Broadway, Hawthorne, NY 10532 914.747.2800

New York, NY 10018 646.849.4110

NY SED PROJECT CONTROL NO.

| 66-03-02-03-0-002-024

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ELECTRICAL SCHEDULES

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AS NOTED	VB / ML
Sheet Number	

E602

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NOTES:

