

CHESTER UNION FREE SCHOOL DISTRICT  
**CHESTER ACADEMY STEM LAB ALTERATIONS**

64 HAMBLETONIAN AVENUE  
 CHESTER, NY 10918

REISSUE FOR BID - JANUARY 18, 2023

**CHESTER ACADEMY STEM  
 LAB ALTERATIONS**

NY SED Project Control No.  
 44-02-01-02-0-009-006

KG+D Project No.  
 2021-1080

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**CONSTRUCTION DOCUMENTS**



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# PROJECT ABBREVIATIONS

AFF	ABOVE FINISH FLOOR	GALV	GALVANIZED	RCP	REFLECTED CEILING PLAN
ACM	ASBESTOS CONTAINING MATERIAL	GFB	GROUND FACE BLOCK	REFL	REFLECTED
ACPL	ACOUSTIC PANEL	GFRG	GLASS FIBER REINFORCED GYPSUM	REQD	REQUIRED
ACT	ACOUSTIC CEILING TILE	GL	GLASS	RB	RUBBER BASE
ADJ	ADJUSTABLE	GOG	GOGGLE	RTN	RETURN
AC	AIR CONDITIONING	GWB	GYPSUM WALLBOARD	RA	RETURN AIR
AESS	ARCHITECTURAL EXPOSED STRUCTURAL STEEL	H	HEIGHT AFF	REV	REVISED/REVISION
AHAP	AS HIGH AS POSSIBLE	HDW	HARDWARE	RFI	REQUEST FOR INFORMATION
ALUM	ALUMINUM	HDWD	HARDWOOD	RO	ROUGH OPENING
AMP	ACRYLIC MODIFIED POLYESTER	HD	HEAD	RT	RUBBER TREAT/D/TILE
APPROX	APPROXIMATE	HDR	HEADER	RTB	RUBBER TREAD BASE
		HVAC	HEATING, VENTILATING, AIR CONDITIONING	RTT	RESILIENT TERRAZZO TILE
		HR	HOUR	RW	RESCUE WINDOW
		HT	HEIGHT	S	SAFETY GLZING/SEE SPEC
		HM	HOLLOW METAL	SCHED	SCHEDULE/SCHEDULED
		HMFR	HOLLOW METAL FRAME	SECT	SECTION
		HORIZ	HORIZONTAL	SFB	SPLIT FACE BLOCK
		HC	HANDICAP	SH	SHELVING/SHELF/SHELVES
		IF	INSIDE FACE	SIM	SIMILAR
		IN	INCH/INCHES	SL	SLATE
		INCL	INCLUDE/INCLUSIVE	STC	SOUND TRANSMISSION CLASS
		INFO	INFORMATION	SPEC	SPECIFICATION
		INSUL	INSULATION	SOFT	SQUARE FOOT
		INT	INTERIOR	ST	SAND, STAIN & SEAL
		JC	JANITOR'S CLOSET	STSTL	STAINLESS STEEL
		JT	JOINT	STL	STEEL
		KPL	KICK PLATE	STR	STRUCTURAL/STRUCTURE
		KD	KNOCKDOWN	SUSP	SUSPENDED/SUSPENSION
		KO	KNOCKOUT	T	TOP
		LAM	LAMINATED	TB	TACKBOARD
		LAMGL	LAMINATED GLASS	TBD	TO BE DETERMINED
		LT	LIGHT	TERR	TERRAZZO
		LTG	LIGHTING	TF	TOP FINISHED FLOOR
		LWC	LIGHT WEIGHT CONCRETE	TMP GL	TEMPERED GLASS
		LIN	LINOLEUM	THERMO	THERMOSTAT
		MAINT	MAINTAIN/MAINTENANCE	T&B	TOP AND BOTTOM
		MAX	MAXIMUM	TO	TOP OF
		MFG	MANUFACTURER	TOS	TOP OF STEEL
		MSNRY	MASONRY	TOES	TOP OF EXISTING SLAB
		MO	MASONRY OPENING	TRT	TERRAZZO RESILIENT TILE
		MATL	MATERIAL	TYP	TYPICAL
		MECH	MECHANICAL	UNFIN	UNFINISHED
		MTL	METAL	UNO	UNLESS NOTED OTHERWISE
		MCP	METAL COMPOSITE PANEL	UR	UNRINAL
		MCB	METAL CORNER BEAD	UTIL	UTILITY
		MS	METAL STUD	VAT	VINYL ASBESTOS TILE
		MLWK	MILL WORK	VCT	VINYL COMPOSITE TILE
		MIN	MINIMUM	VEN	VENEER
		MISC	MISCELLANEOUS	VERT	VERTICAL
		MLDG	MOLDING	VET	VINYL ENHANCED TILE
		MTG	MOUNTING	VIF	VERIFY IN FIELD
		NIC	NOT IN CONTRACT	VRS	VINYL REDUCER STRIP
		NTS	NOT TO SCALE	VT	VINYL TILE
		NO	NUMBER	VWC	VINYL WALL COVERING
		OC	ON CENTER	WB	WHITEBOARD
		OPNG	OPENING	WC	WATER CLOSET
		OPP	OPPOSITE	WF	WATER FOUNTAIN
		OH	OPPOSITE HAND	WGL	WIRE GLASS
		OTS	OPEN TO STRUCTURE	W	WITH
		OUT	OUTLET	WC	WHEEL CHAIR
		OD	OUTSIDE DIAMETER	W/O	WITHOUT
		OF	OUTSIDE FACE	WOM	WALK OFF MAT
		P	PAINTED	WD	WOOD
		PT	PORCELAIN TILE	WD B/LKG	WOOD BLOCKING
		PTB	PORCELAIN TILE BASE	WD DR	WOOD DOOR
		PR	PAIR	WP	WATERPROOFING
		PNL	PANEL	WR	WARDROBE
		PTN	PARTITION	WW	WINDOW WALL
		PL	PROPERTY LINE	YD	YARD
		PLAM	PLASTIC LAMINATE	YCO	YARD CLEANOUT
		PLMB	PLUMBING	ZCC	ZINC COATED COPPER
		PLYWD	PLYWOOD		
		PTWD	PRESERVATIVE TREATED WOOD		
		QT	QUARRY TILE		
		QTB	QUARRY TILE BASE		
		QTY	QUANTITY		

# UNIFORM SAFETY STANDARDS FOR SCHOOL CONSTRUCTION & 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:

- (A) ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
- (B) FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
- (C) GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
- (D) 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.
- (E) 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) 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.
- (B) 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.
- (C) 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 SHALL BE TAKEN.

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 DISTRACTION.

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.

# SHEET IDENTIFICATION LEGEND

		<b>DISCIPLINE DESIGNATORS</b> G GENERAL CC CODE COMPLIANCE PH PHASING HM HAZARDOUS MATERIAL ABATEMENT C CIVIL L LANDSCAPE S STRUCTURAL A ARCHITECTURAL F FIRE PROTECTION P PLUMBING M MECHANICAL E ELECTRICAL	<b>SHEET TYPE DESIGNATOR</b> G GENERAL 1 DEMOLITION 2 PLANS 3 EXTERIOR ELEVATIONS & BUILDING SECTIONS 4 ENLARGED PLANS & INTERIOR ELEVATIONS 5 FINISHES 6 REFLECTED CEILING PLANS 7 VERTICAL CIRCULATION 8 WALL SECTIONS & ENLARGED DETAILS 9 TYPICAL DETAILS
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# SYMBOLS LEGEND

<b>ROOM NAME</b> 101 150 SF	ROOM TAG (NAME, NUMBER, & AREA)		DENOTES EXISTING AREA OF THE BUILDING TO REMAIN (NO MAJOR GENERAL CONSTRUCTION).
	WALL TYPE & FIRE RATING TAG		DENOTES EXISTING WALL TO REMAIN
	WINDOW TYPE TAG		DENOTES EXISTING WALL TO BE DEMOLISHED
	DOOR DESIGNATION TAG		DENOTES 1hr OR NON-RATED WALL
	COLUMN LINE		DENOTES 2hr RATED WALL
	EXTERIOR ELEVATION		DENOTES WALL TYPE & FIRE RATING
	INTERIOR ELEVATION		DENOTES EXISTING DOOR TO REMAIN (U.N.O)
	INTERIOR ELEVATION		DENOTES EXISTING DOOR AND OR FRAME TO BE DEMOLISHED. SEE DOOR SCHEDULE.
	WALL OR BUILDING SECTION		DENOTES NEW DOOR AND OR FRAME. SEE DOOR SCHEDULE

# MATERIALS LEGEND

	CMU WALL		CAULK w/ BACKER ROD
	CMU WALL		WATERPROOFING MEMBRANE OR ROOFING MEMBRANE OR FLASHING
	GWB WALL		RIGID INSULATION
	MASONRY VENEER		BATT INSULATION
	GWB - "TYPE X" UNO (SEE SPECS)		POROUS FILL
	EXPOSED TO WEATHER OR MOISTURE		SUITABLE COMPACTED BACKFILL (SEE SPEC)
	WOOD BLOCKING (PRESSURE TREATED ALL AREAS EXPOSED TO WEATHER OR MOISTURE)		UNDISTURBED SOIL
			CAST-IN-PLACE CONCRETE OR CAST STONE
			GLASS SURFACE

# PROJECT INFORMATION

OWNER	CHESTER UNION FREE SCHOOL DISTRICT 64 HAMBLETONIAN AVENUE CHESTER, NEW YORK 10918
TELEPHONE:	845.572.5004
PROJECT LOCATION	CHESTER ACADEMY 64 HAMBLETONIAN AVENUE CHESTER, NEW YORK 10918
TYPE OF PROJECT	ALTERATIONS (LEVEL 2 - 2020 EBCNYS)
NYSID NUMBER	44-02-01-02-0-009-006
PROJECT COMMENCEMENT	JANUARY 11 2023
PROJECT COMPLETION	AUGUST 01 2023
APPLICABLE CODES	2020 NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE 2020 EXISTING BUILDING CODE OF NEW YORK STATE 1998 MANUAL OF PLANNING STANDARDS, THE UNIVERSITY OF THE STATE OF NEW YORK, THE STATE EDUCATION DEPARTMENT ANSI A117/1-09 ACCESSIBLE & USABLE BUILDINGS AND FACILITIES

\*SEE DRAWINGS ON CODE COMPLIANCE PLANS FOR WORK AREAS & ADDITIONAL INFORMATION\*

# CHESTER ACADEMY STEM LAB ALTERATIONS

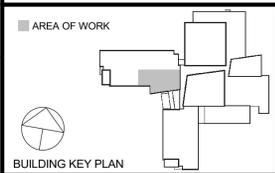
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NY SED PROJECT CONTROL NO.  
44-02-01-02-0-009-006

# CONSTRUCTION DOCUMENTS



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No.	Date	Issue
5	01/18/2023	REISSUE FOR BID
3	11/02/2022	ISSUE FOR BID
1	05/25/2022	NYSID - CONST. DOCS.

# GENERAL INFORMATION

Job No.	2021-1080	Date	01/11/2023
Scale	AS NOTED	Drawn / Checked	KG+D

Sheet Number  
**G001**

**CHAPTERS 3-6: OCCUPANCY, AREA, AND CONSTRUCTION TYPES**

USE + OCCUPANCY CLASSIFICATION: E (EDUCATIONAL)

CONSTRUCTION CLASSIFICATION: IB - PARTIALLY SPRINKLERED

FIRE RESISTANCE RATING REQUIRMENTS  
 WALL (BEARING): 2 HRS  
 WALL (NON-BEARING): 0 HRS  
 FLOORS: 2 HRS  
 ROOF: 1 HRS

BUILDING HEIGHT & AREA:  
 \*PRE-EXISTING NON-CONFORMING\* (NS = NONSPRINKLERED)

	PERMITTED(NS)	ACTUAL
HEIGHT	160'-0"	54'-0" +/-
STORIES	5	3
FLOOR AREA	UNLIMITED	132,600 SF

TOTAL PROJECT SCOPE AREA: 5,170 SF (RENOVATION)

**CHAPTER 7: FIRE & SMOKE PROTECTION**

ASSEMBLY	FIRE-RESISTANCE RATING	LOCATION
FIRE PARTITION	1 HOUR	CORRIDORS STAIR ENCLOSURES SMOKE STOPS

\*\*\* SEE DRAWING CC002 FOR LOCATION OF FIRE-RESISTANCE RATED CONSTRUCTION \*\*\*

**CHAPTER 10: MEANS OF EGRESS**

ITEM	DRAWING SHOW
ROOM USE DESIGNATION	CC002
ROOM SQUARE FOOTAGE	CC002
ROOM OCCUPANCY LOADS	CC002
TRAVEL DISTANCES	CC002
ASSEMBLY SPACE CAPACITY CALCULATIONS(NY BC)	CC002
DOOR CAPACITY CALCULATIONS	CC002

NYS BC TABLE 1017.2  
200'-0" MAX EXIT ACCESS TRAVEL DISTANCE (UNSPRINKLERED)

NYS BC TABLE 1006.2.1  
75'-0" MAX COMMON PATH OF TRAVEL (UNSPRINKLERED)

NYS BS SECTION 1005.3  
EXIT STAIR WIDTHS 0.3" / OCCUPANT (NS)  
OTHER EGRESS COMPONENTS 0.2" / OCCUPANT (NS)

NYSED MANUAL OF PLANNING STANDARDS  
120'-0" TO STAIR ENCLOSURE FROM CORRIDOR  
50'-0" TO EXIT FROM ALL ROOMS 1500 SF AND UNDER  
75'-0" TO SEPARATE SMOKE ZONE IN OPEN PLANNED AREAS  
NO DEADEND CORRIDORS (<1.5 x WIDTH, MAX 20'-0")

**CHAPTER 11: ACCESSIBILITY**

ITEM	DRAWING SHOWN
INTERIOR ACCESSIBLE ROUTE	CC002
ACCESSIBLE ENTRANCES	CC002
SIGNAGE	A501 & SPECIFICATIONS
DOOR APPROACH CLEARANCES	CC002 & FLOOR PLANS
DOOR HARDWARE	SPECIFICATIONS

**PROGRAM NOMENCLATURE**

- STEM LAB (ENTIRE PROJECT/SCOPE)**
- LEARNING COMMONS - SECOND FLOOR OF STEM LAB**
    - LEARNING STUDIO
    - LIBRARY
      - LIBRARY ASSEMBLY
      - LIBRARY BOOK STACKS
    - WORKING MEZZANINE
    - DESIGN COLLABORATION
    - COLLAB ROOM (RM 201B)
    - WORK ROOM
    - COLLAB ROOM (RM 202B)
    - COLLAB ROOM (RM 202)
  - PRODUCTION STUDIO - THIRD FLOOR OF STEM LAB**
    - PRODUCTION CLASSROOM
    - PRODUCTION LAB

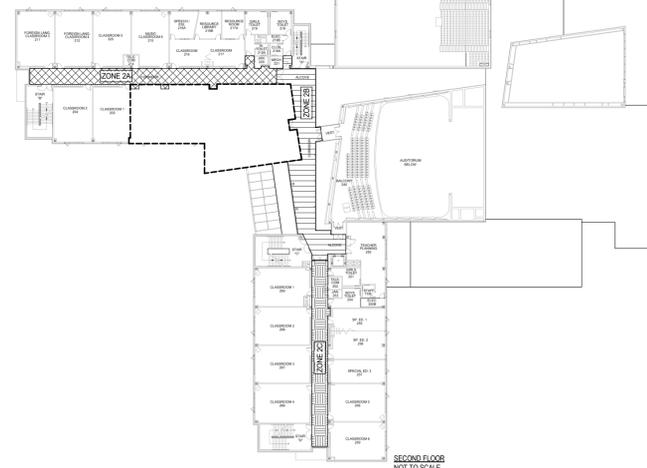
**EXISTING SMOKE ZONES**

THE RENOVATIONS FOR THIS PROJECT ONLY ALTERS THE SECOND AND THIRD FLOORS OF THE SCHOOL. (THE FLOOR PLANS BELOW ARE EXISTING PLANS TO SHOW SMOKE ZONES NEAR THE AREAS OF WORK)

- AREA OF WORK / SCOPE OF PROJECT
- SMOKE ZONE 3A
- SMOKE ZONE 3B
- SMOKE ZONE 3C



- AREA OF WORK / SCOPE OF PROJECT
- SMOKE ZONE 2A
- SMOKE ZONE 2B
- SMOKE ZONE 2C

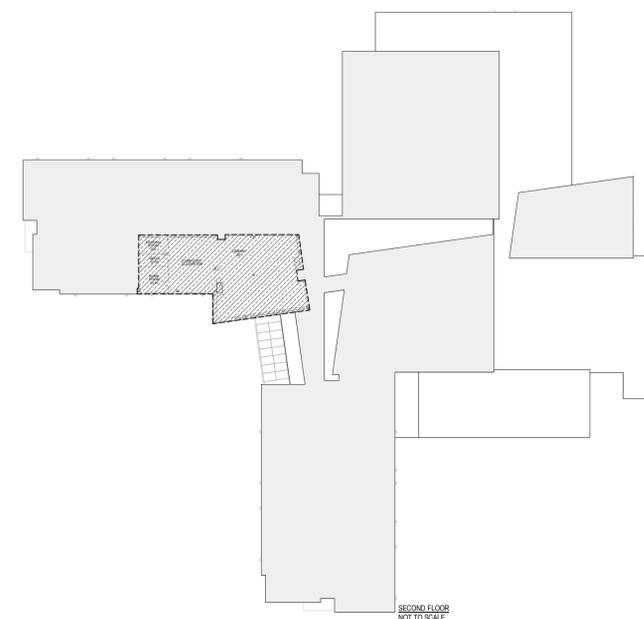


**PROJECT SCOPE, AREA OF WORK, CLASSIFICATION OF WORK, AND APPLICABLE CODES**

PROJECT SCOPE:  
THIS PROJECT INVOLVES ALTERATIONS OF AN EXISTING SCHOOL TO UPDATE THE STEM LAB PROGRAM. THROUGH THE USE OF A LEARNING STAIR, THE STEM LAB HAS A DESIGNATED SPACE FOR THE PRODUCTION STUDIO AND ONE FOR THE LIBRARY PROGRAM.

AREA OF WORK:  
THE RENOVATIONS FOR THIS PROJECT ONLY ALTERS THE SECOND AND THIRD FLOORS OF THE SCHOOL. (THE FLOOR PLANS BELOW ARE OVERALL EXISTING PLANS TO SHOW AREAS OF WORK VS NO WORK.)

- AREA OF WORK / SCOPE OF PROJECT
- NO WORK / EXISTING



CLASSIFICATION OF WORK: ALTERATIONS (LEVEL 2 - 2020 EBCNYS)

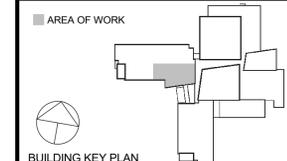
APPLICABLE CODES:  
 2020 NEW YORK STATE UNIFORM FIRE PREVENTION & BUILDING CODE  
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 ANSI A117/1-09 ACCESSIBLE & USABLE BUILDINGS AND FACILITIES

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Professional Seal

5	01/18/2023	REISSUE FOR BID
3	11/02/2022	ISSUE FOR BID
2	06/16/2022	NYSED - ADDENDUM #1
1	05/25/2022	NYSED - CONST. DOCS.

Sheet Title

**CODE COMPLIANCE INFORMATION**

Job No.	2021-1080	Date	01/11/2023
Scale	AS NOTED	Drawn / Checked	KG+D

Sheet Number

**CC001**

**ASSEMBLY SPACE EGRESS CAPACITY CALCULATIONS**  
PER NYS BS: 1005.3.1, 1005.3.2, 1006.3.2 & NYS ED MPS

PER NYS BC		REQUIRED			PROVIDED			
LOCATION	AREA	OCCUPANT LOAD	EGRESS WIDTH	# OF EXITS	MAXIMUM EGRESS PATHS	EGRESS WIDTH	# OF EXITS	MAXIMUM EGRESS PATHS
<b>LEARNING STUDIO</b> (SEE LEARNING COMMONS OCCUPANCY TABLE FOR MORE DETAIL)	3,981 SF	168 OCC.	33" (OCC x 0.20")	2	200'-0" EXIT ACCESS TRAVEL DISTANCE 75'-0" COMMON PATH OF TRAVEL DISTANCE	102"	2	75'-2" EXIT ACCESS TRAVEL DISTANCE 67'-6" COMMON PATH OF TRAVEL DISTANCE

**NOTE:** ASSUME WHEN THE LIBRARY ASSEMBLY IS FULLY OCCUPIED, SPACES OUTSIDE THE LEARNING COMMONS ARE NOT FULLY OCCUPIED.

**NYS ED PLANNING STANDARDS:** ANY POINT IN A CORRIDOR, OTHER THAN THE GROUND FLOOR CORRIDOR, SHALL NOT EXCEED 120 FEET ALONG THE LINE OF TRAVEL TO THE STAIR ENCLOSURE OF AN EXIT STAIRWAY.

**\*\*ALL CORRIDOR PATHS OF TRAVEL (TO A STAIR ENCLOSURE) ARE EXISTING CONFORMING CONDITIONS\*\***

**DOOR CAPACITY CALCULATIONS (GENERAL)**  
AT 36" WIDE SINGLE DOORS  
(34" CLEAR EGRESS WIDTH SHALL BE PROVIDED)  
34" / 0.20" PER OCCUPANT = 170 OCCUPANT CAPACITY  
  
AT 72" WIDE DOUBLE DOORS  
(68" CLEAR EGRESS WIDTH SHALL BE PROVIDED)  
68" / 0.20" PER OCCUPANT = 340 OCCUPANT CAPACITY  
  
**DOOR CAPACITY CALCULATIONS (GENERAL)**  
AT 44" WIDE SINGLE DOORS  
(42" CLEAR EGRESS WIDTH SHALL BE PROVIDED)  
42" / 0.20" PER OCCUPANT = 210 OCCUPANT CAPACITY  
  
AT 84" WIDE DOUBLE DOORS  
(80" CLEAR EGRESS WIDTH SHALL BE PROVIDED)  
80" / 0.20" PER OCCUPANT = 400 OCCUPANT CAPACITY

**OCCUPANCY TABLE - LEARNING COMMONS**

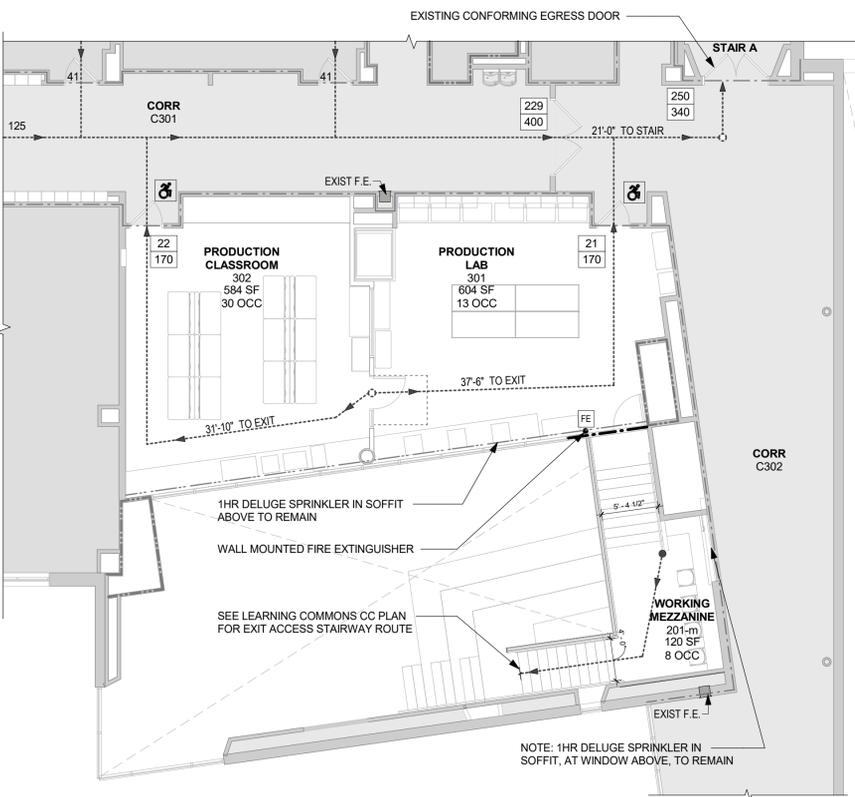
LOCATION	ROOM NAME / SPACE	ROOM NUMBER	AREA	FUNCTION OF SPACE	CODE FACTOR	OCCUPANT LOAD
LEARNING STUDIO	<b>3,981 SF</b>					
	LIBRARY ASSEMBLY	201-a	1,636 SF	ASSEMBLY - unconcentrated	15	110 OCC
	LIBRARY BOOK STACKS	201-b	581 SF	LIBRARY - stack area	100	6 OCC
	WORKING MEZZANINE	201-m	120 SF	ASSEMBLY - unconcentrated	15	8 OCC
	DESIGN COLLABORATION	201A	806 SF	LIBRARY - reading room	50	17 OCC
	COLLAB	201B	141 SF	EDUCATIONAL - classroom	20	8 OCC
	WORK ROOM	202A	570 SF	LIBRARY - reading room	50	12 OCC
COLLAB	202B	127 SF	EDUCATIONAL - classroom	20	7 OCC	
COLLAB (202)	COLLAB	202	123 SF	EDUCATIONAL - classroom	20	7 OCC

**OCCUPANCY TABLE - PRODUCTION STUDIO**

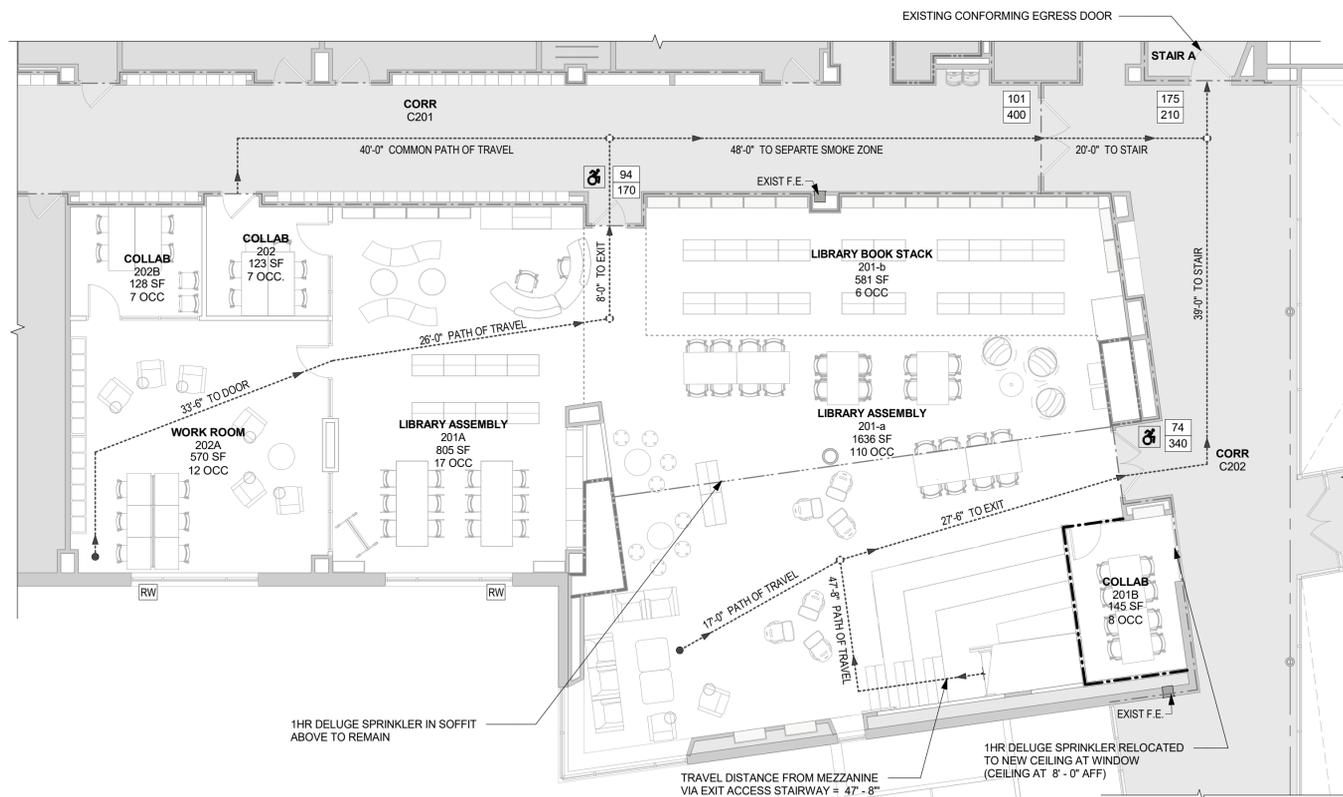
LOCATION	ROOM NAME / SPACE	ROOM NUMBER	AREA	FUNCTION OF SPACE	CODE FACTOR	OCCUPANT LOAD
PRODUCTION STUDIO	<b>1,185 SF</b>					
	PRODUCTION LAB	301	601 SF	EDUCATIONAL - shop	50	13
	PRODUCTION CLASSROOM	302	584 SF	EDUCATIONAL - classroom	20	30

**CODE COMPLIANCE  
GENERAL NOTES & LEGEND**

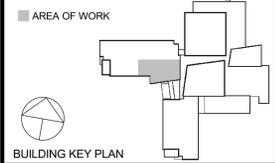
- AREA OF NO WORK (EXISTING)
- EXISTING RESCUE WINDOW (60"H x 30"W)
- Room name  
101  
150 SF  
20 OCC.
- ROOM OCCUPANCY TAG
- EXIT/EGRESS CAPACITY  
X = OCCUPANCY EGRESS LOAD  
Y = MAXIMUM CAPACITY
- MOST REMOTE POINT
- COMMON PATH OF TRAVEL
- DIRECTION OF TRAVEL
- ADA ACCESSIBLE EXIT
- PARTITION RATINGS  
EXISTING 1HR DELUGE SPRINKLER  
EXISTING 1HR PARTITION  
EXISTING 2HR PARTITION  
NEW 1HR PARTITION
- AREA OF WORK



**2 PRODUCTION STUDIO (3RD FL) - CC PLAN**  
1/8" = 1'-0"



**1 LEARNING COMMONS (2ND FL) - CC PLAN**  
1/8" = 1'-0"



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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 FABRICATION.  
  
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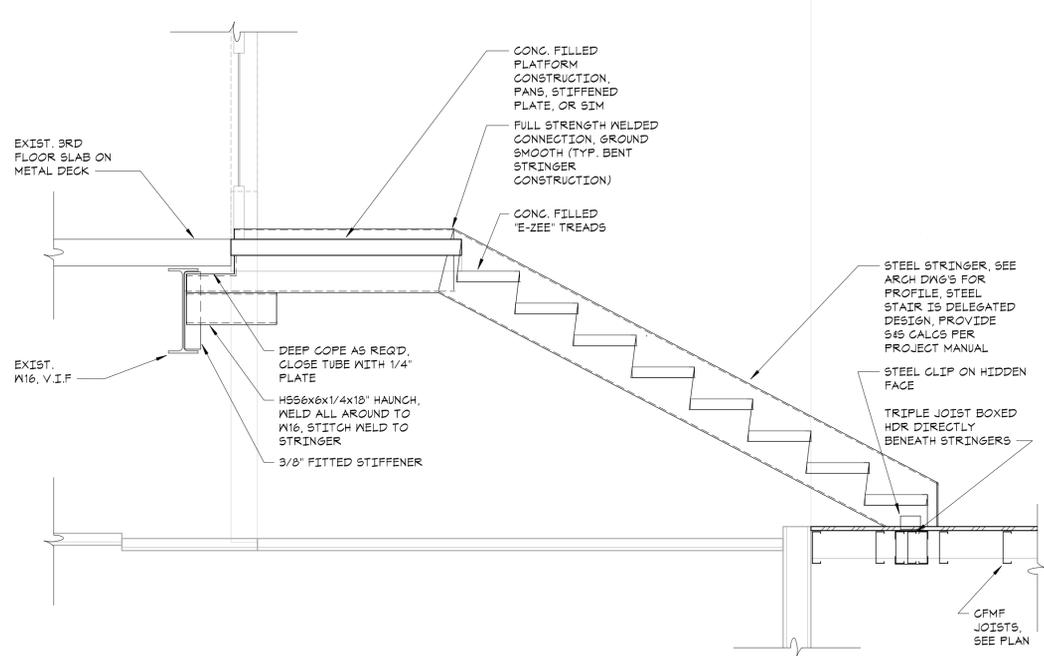
Professional Seal

5	01/18/2023	REISSUE FOR BID
3	11/02/2022	ISSUE FOR BID
1	05/25/2022	NYS ED - CONST. DOCS.
No.	Date	Issue

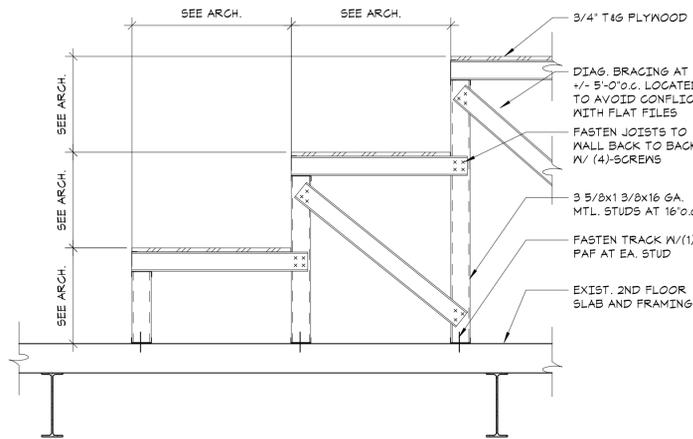
**CODE COMPLIANCE  
PLANS & INFO**

Job No.	2021-1080	Date	01/11/2023
Scale	AS NOTED	Drawn / Checked	KG+D

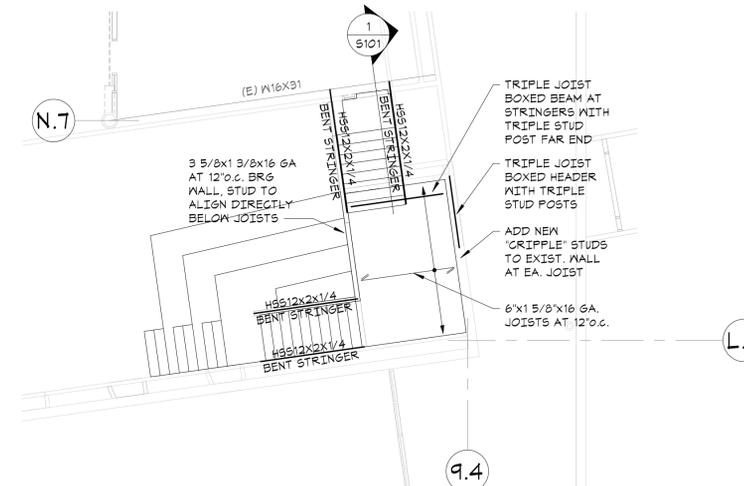
Sheet Number  
**CC002**



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



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



3RD FLOOR FRAMING PLAN  
1/8" = 1'-0"

**General Notes:**

- The purpose of these drawings is to show the structural work associated with proposed learning stair commons area at Chester Academy, 64 Hambletonian Ave., Chester, NY.
- 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:
 

Assemblies areas	
Platforms (assembly)	1
00 psf	
Stairs and exits	1
00 psf	
  - Earthquake design data:
 

Risk category	III
Seismic importance factor, I <sub>s</sub>	1.5
Seismic design category	B

 Earthquake design for existing buildings: Not required since the proposed alterations do not increase the demand-capacity ratio of any seismic load carrying structural element by more than 10 percent cumulative since the original construction.
  - Guardrails (load applied in any direction):
 

Top rail concentrated	200 lbs
or	
Top rail uniform load	50 pf
Intermediate rail concentrated load	50 lbs
- This structure has been designed to be self-supporting and stable after the work shown on these drawings 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.
- 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 stair and cold-formed metal framing, 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.
  - Cold-formed metal framing
  - Steel stair
 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.

- Testing and inspection is 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.
- 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.
- The contractor shall verify all dimensions, elevations and angles with architectural drawings and existing conditions before proceeding with any work.
- 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.
- These drawings are supplemented by a detailed technical specification. The notes shown under certain categories of work are intended to summarize basic requirements.
- 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.
- Some details of the work are shown on the architectural drawings. A careful review and study of these details are necessary before the full scope of the work can be comprehended.
- Do not scale drawings.

**Codes and Standards References**

- Cold formed metal framing: Design, fabrication and erection of cold-formed metal framing shall conform to the American Iron and Steel Institute's "Specification for the Design of Cold-formed Steel Structural Members", 2016.

**Connections to Existing Masonry or Hardened Concrete:**

- 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.
- 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.
  - Mechanical anchors shall be either
    - Hilti "Kwik HUS-EZ" screw anchor (use only in permanently dry, interior non-corrosive environments)
    - Simpson "Titen HD" screw ancho, zinc-plated or galvanized
    - Dewalt "Screw-Bolt" screw anchor, zinc-plated or galvanized

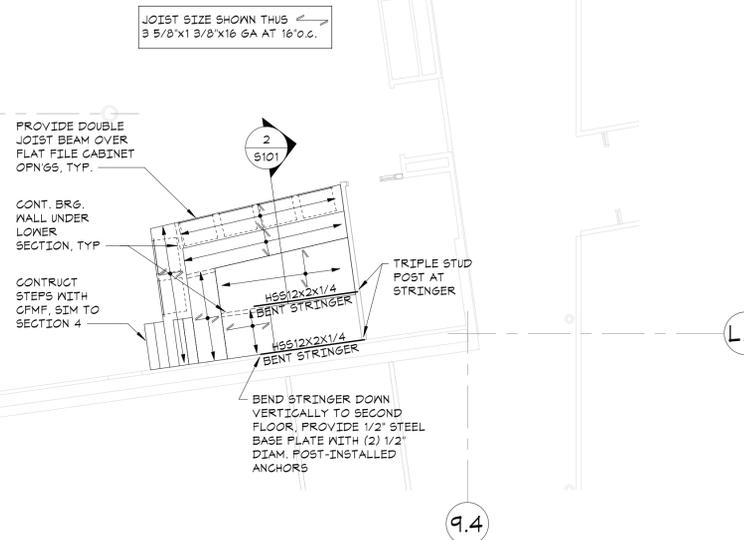
**Cold-Formed Metal Framing Notes:**

- Design, fabrication and erection of cold-formed metal framing shall conform to the American Iron and Steel Institute's "Specification for the Design of Cold-formed Steel Structural Members", current edition as referenced by the applicable building code, and the specifications of the manufacturer of the cold-formed metal framing.
- All studs and/or joists and accessories shall be of the type, size, steel thickness and spacing shown on the drawings. Studs, tracks, bracing and bridging shall be manufactured per ASTM C 955.
- All studs, joists and accessories shall be formed from steel that conforms to the requirements of ASTM A 1003 with a yield as follows:
  - 16 ga (0.054") or heavier 50 ksi
  - 18 ga (0.043") or lighter 33 ksi
- All studs, joists and accessories shall be galvanized with a minimum G-60 coating.
- Connections shall be accomplished with self-driving screws or welding so that the connection meets or exceeds the design loads required at that connection.
- All connections shall be made using a minimum of three (4) No. 10-16 screws, unless otherwise shown on drawings.
- Screw spacing and edge distance shall not be less than 1".
- Minimum connection angle thickness shall be 16 gage, but no thinner than the material of the members that are being connected.
- Joists shall be located directly over bearing studs or a load distribution member shall be provided to transfer loads.
- Avoid holes at ends of members. However, should holes occur, provide additional reinforcing at the ends of the member where holes occur, unless otherwise noted.
- Provide lateral blocking, bridging, and web stiffeners for vertical and horizontal framing members, and other framing members as required and in accordance with manufacturer's specifications or recommendations, unless indicated otherwise on the drawings.
- Track: 16 gage minimum securely anchored to adjacent structure or member.
- All framing components: cut squarely or at an angle to fit squarely against abutting members. All members: held firmly in position until properly fastened, erect member level, plumb, and true to line and to dimensions and elevations indicated.
- Studs: Seated squarely in the track with the stud web and flanges abutting the track web, and securely attached to the flanges or web of both tracks.
- Splices in studs and other framing components: Not permitted.
- Submittals to the engineer are required for certificates of compliance for framing members (studs, joists, tracks, etc.), screws, and accessories (connection clips, stiffeners, etc.) prior to delivery to the site.
- Shop drawings: Show layout, spacing, sizes, thickness, material specification, and types of cold-formed metal framing. Show fastening and anchorage details, including mechanical fasteners. Show reinforcing channels, opening framing, supplemental framing, strapping, bracing, bridging, splices, accessories, connection details, and attachment to adjoining work.

**Wood Structural Panels:**

- Wood Structural Panels commonly referred to as sheathing panels shall conform to U.S. Product Standard DOC PS 1 or PS 2, and bear the APA grade-trademark of the American Plywood Association.
- Sheathing panels shall be APA rated sheathing, Exposure 1, with a minimum span index rating of 32/16.
- Sheathing panels on flat surfaces shall be installed with face grain or panel long dimension perpendicular across supports and continuous over two or more spans. Provide 1/8" space between panel edges parallel to face grain or panel long dimension, 1/16" space between panel edges over supporting members.
- Floor sheathing shall be glued to supporting members with construction adhesive such as PL 200, laid in a continuous 1/4 inch wide bead along the member length.

3RD FLOOR FRAMING PLAN  
1/8" = 1'-0"



2ND FLOOR FRAMING PLAN  
1/8" = 1'-0"

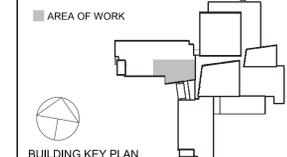
- TOP OF EXISTING SECOND FLOOR SLAB ELEVATION: +/-14'-0" ABOVE DATUM.
- SEE ARCHITECTURAL DRAWING FOR ALL LEARNING STAIR ELEVATIONS AND DIMENSIONS.
- SEE GENERAL NOTES FOR ADDITIONAL INFORMATION.

**CHESTER ACADEMY STEM LAB ALTERATIONS**  
CHESTER UNION FREE SCHOOL DISTRICT  
64 HAMBLETONIAN AVENUE  
CHESTER, NY 10918

**KG+D** listen imagine build  
ARCHITECTS PC  
285 MAIN STREET MOUNT KISCO, NEW YORK, 10549  
P:914.666.5900 KGARCHITECTS.COM

NY SED PROJECT CONTROL NO.  
44-02-01-02-009-006

**CONSTRUCTION DOCUMENTS**



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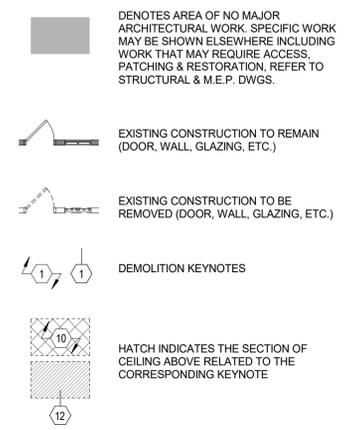
No.	Date	Issue
3	01/18/2023	REISSUE FOR BID
2	11/02/2022	ISSUE FOR BID
1	05-25-22	ISSUED FOR CONSTRUCTION

Sheet Title  
**2ND AND 3RD PARTIAL FLOOR FRAMING PLAN**

Job No.	22102.00	Date	05/25/2022
Scale	AS NOTED	Drawn / Checked	JM / TBH

Sheet Number  
**S101**

**DEMOLITION LEGEND**

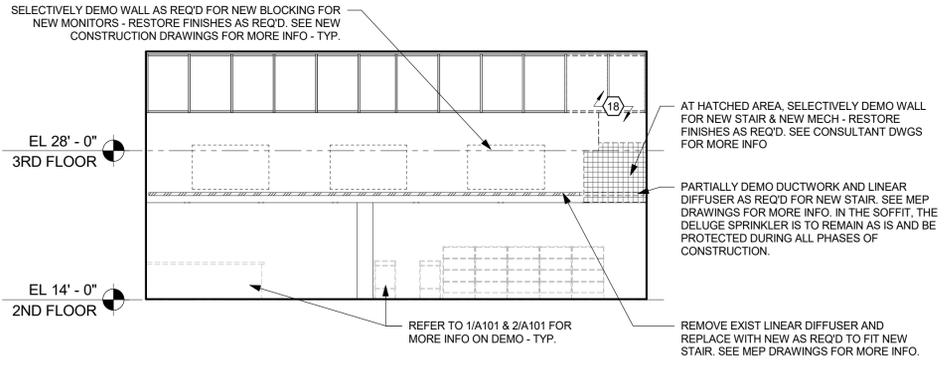


**GENERAL DEMOLITION NOTES:**

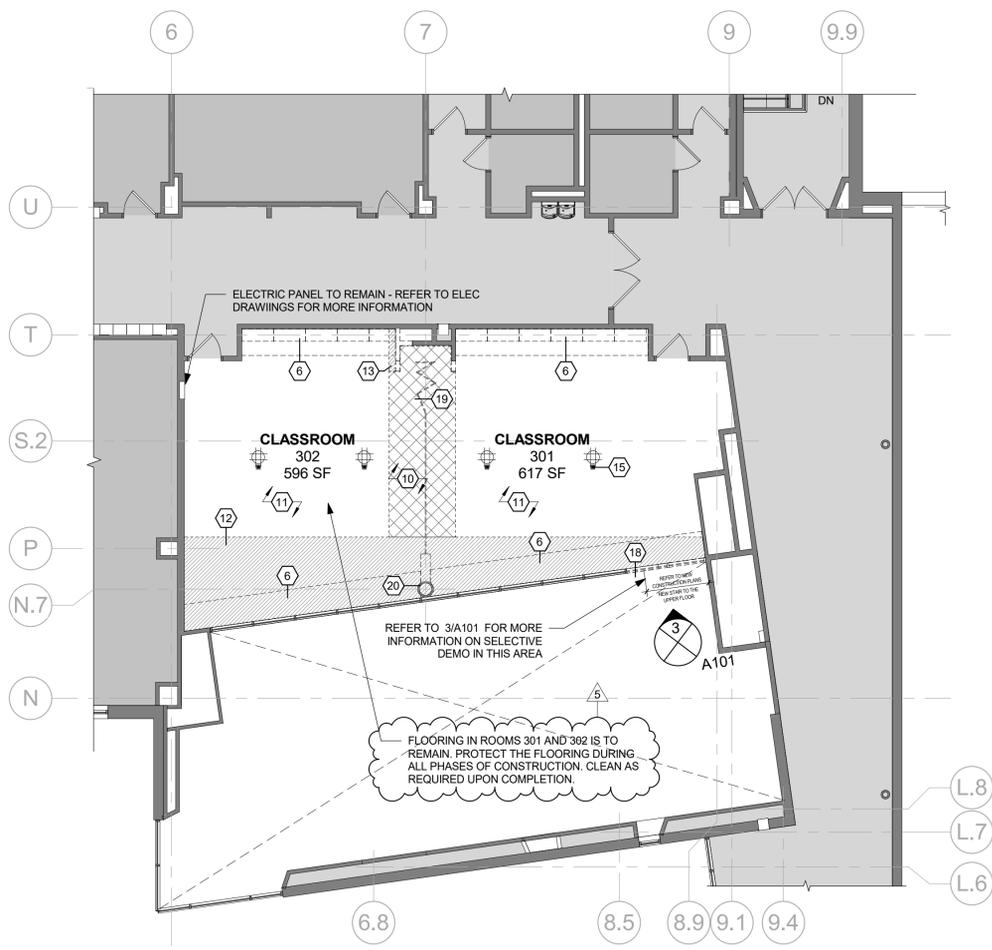
- DEMOLITION IS NOT NECESSARILY LIMITED TO WHAT IS SHOWN ON DRAWINGS. THE INTENT IS TO INDICATE THE GENERAL SCOPE OF DEMOLITION REQUIRED TO COMPLETE THE WORK IN ACCORDANCE WITH THE CONTRACT DRAWINGS. PRIOR TO ANY DEMOLITION CONTRACTORS ARE REQUIRED TO VISIT SITE AND FAMILIARIZE THEMSELVES WITH EXISTING CONDITIONS AND NOTE ANY DISCREPANCIES IN WRITING TO ARCHITECT.
- 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.
- HAZARDOUS MATERIAL ABATEMENT IS NOT PART OF THE WORK FOR THIS PROJECT. NOTIFY THE ARCHITECT IMMEDIATELY SHOULD SUSPECT MATERIAL BE DISCOVERED.
- AT ANY SPACE BEING RENOVATED CONTRACTOR SHALL REMOVE EQUIPMENT AND MISCELLANEOUS ITEMS SUCH AS PLAQUES, SIGNAGE, MIRRORS, PICTURE FRAMES, DISPLAY BOARDS, TACK BOARDS, INTERCOMS, SPEAKERS, AND THE LIKE, AND TURN OVER TO THE OWNER PRIOR TO DEMOLITION.
- ALL FLOOR AND WALL BASE TO BE REMOVED IN AREAS SHOWN IN CONTRACT.
- ALL LIGHTING TO BE REMOVED IN AREAS SHOWN IN CONTRACT. UNO.
- RETURN ALL EXISTING AV EQUIPMENT (I.E. PROJECTORS, SCREENS, MONITORS, AND SPEAKERS) TO OWNER PRIOR TO DEMOLITION.
- DEMOLITION OF DOOR ASSEMBLIES TYPICALLY INCLUDE THE DEMO OF DOOR PANEL(S), FRAME SIDELITES (IF PRESENT), TRANSOMS (IF PRESENT), DOOR SADDLE, HARDWARE, AND RELATED ACCESSORIES. PATCH WALL, FLOOR, & HEAD. PREP FOR NEW DOOR ASSEMBLY (IF APPLICABLE).
- WHEN DEMOLISHING PORTIONS OF THE WALLS OR ROOFS, CONTRACTOR SHALL PROVIDE TEMPORARY SHORINGS AND SUPPORT LINTELS, REGARDLESS OF WHETHER OPENING SPECIFICALLY CALLS OUT FOR A NEW LINTEL OR NOT.
- BEFORE CUTTING AND OPENING/HOLE/TRENCH SPECIFICALLY FOR OTHER TRADE, CONTRACTOR SHALL REVIEW & VERIFY EXACT SIZE & LAYOUT WITH THAT TRADE CONTRACTOR.
- WHEN DEMOLISHING FLOORS CONTRACTORS SHALL REMOVE FINISH FLOORING & SCRAPE SLAB/SUB-FLOORING CLEAN. SUB-FLOOR SHALL BE LEVELED PRIOR TO INSTALLATION OF NEW SCHEDULED FINISH FLOOR. ANY DAMAGE TO ADJ. FLOORS SHALL BE PATCHED.
- AFTER DEMOLITION OPERATIONS, WHEN FINISH PATCHING IF SPECIFIC FINISH/MATERIAL IS NOT CALLED OUT, CONTRACTOR SHALL MATCH EXISTING ADJACENT MATERIALS.
- AFTER DEMOLITION, WHERE SPECIFICALLY CALLED OUT OR NOT, CONTRACTOR SHALL REPAIR ALL SCARS TO EXISTING ADJACENT MATERIALS AND RESTORE TO PRIOR CONDITION.
- OWNER HAS RIGHT OF FIRST REFUSAL OF ANY MATERIAL.
- THE GENERAL CONTRACTOR IS RESPONSIBLE FOR REMOVING AND REINSTALLING THE EXISTING CEILING TILES AND GRID SYSTEM AS REQUIRED FOR NECESSARY NEW WORK. SEE DEMOLITION KEYNOTE #11 FOR ADDITIONAL INFORMATION.

**DEMOLITION KEYNOTES**

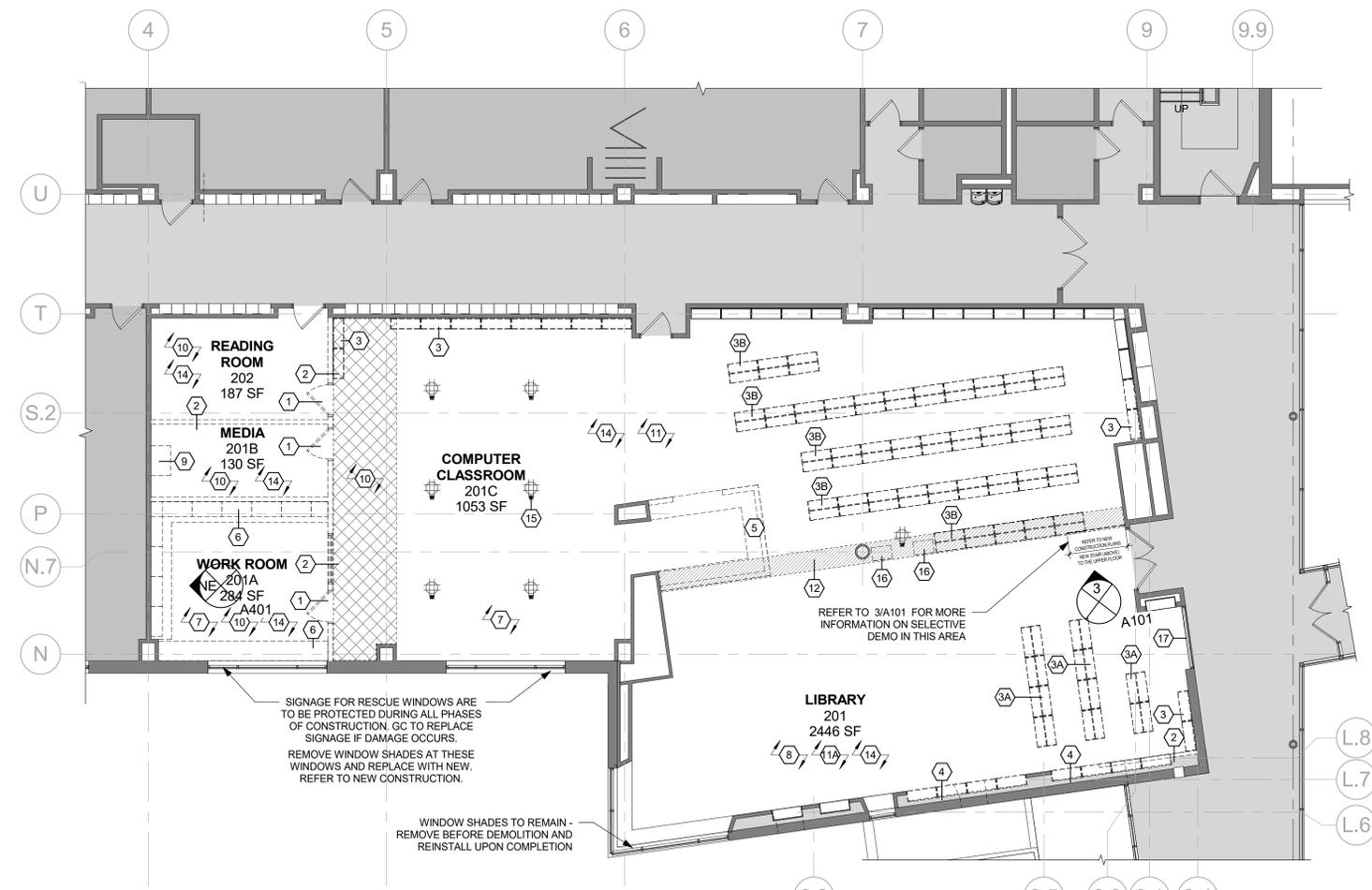
- REMOVE & DISPOSE EXIST DOOR, FRAME AND ALL ASSOCIATED HARDWARE - COORD. W/ NEW CONSTRUCTION
- REMOVE & DISPOSE EXIST PARTITIONS (AND WINDOW WHEN APPLICABLE) - PATCH & MATCH EXIST SURFACES - PREP FOR INSTALLATION OF NEW WALLS & FINISHES - TYP
- EXISTING TALL BOOK STACKS - NINE BOOK STACKS ARE TO BE STORED AND REINSTALLED IN DIFFERENT LOCATIONS. SEE NEW CONSTRUCTION DRAWINGS FOR LOCATIONS - COORDINATE REMOVAL AND/OR DISPOSAL OF THE REMAINING BOOK STACKS WITH DISTRICT FACILITIES DIRECTOR
- EXISTING 5FT BOOK STACKS - TEN 5FT BOOK STACKS ARE TO BE STORED AND REINSTALLED IN DIFFERENT LOCATIONS
- EXISTING 5FT BOOK STACK TO BE REMOVED - COORDINATE REMOVAL AND/OR DISPOSAL WITH DISTRICT FACILITIES DIRECTOR - TYP
- REMOVE RECESSED BOOK STACKS - COORD. INFILL W/ NEW CONSTRUCTION
- REMOVE & DISPOSE EXISTING RECEPTION DESK IN ITS ENTIRETY
- REMOVE EXISTING COUNTER, CASEWORK AND ALL ASSOCIATED HARDWARE & ACCESSORIES AS REQUIRED
- COORDINATE WITH DISTRICT ON REMOVAL AND STORAGE FOR ALL PRODUCTION EQUIPMENT. THIS EQUIPMENT MUST BE PROTECTED DURING ALL PHASES OF CONSTRUCTION. THE EQUIPMENT IS TO BE REINSTALLED IN A NEW LOCATION AS PER THE DRAWINGS ON A201 AND A502
- COORDINATE REMOVAL OF FURNITURE W/ DISTRICT - LOOSE FURNITURE TO BE REMOVED BY OWNER
- REMOVE & DISPOSE DATA RACK AND REQUIRED ASSOCIATED COMPONENTS - SEE ELECTRICAL DRAWINGS FOR MORE INFO ON SCOPE
- IN THE RECD AREA, REMOVE CEILING SYSTEM & LIGHT FIXTURES INCLUSIVE OF ALL RELATED HANGERS, PERIMETER TRIM, ETC. - DISPOSE OF ALL ITEMS EXCEPT FOR ACOUSTIC CEILING TILES. STORE AND PROTECT TILES DURING ALL PHASES OF CONSTRUCTION - REUSE/INFILL ACT TILES IN EXIST CEILING AS NEEDED FOR NEW WORK - PREP FOR NEW CONSTRUCTION AND INSTALLATION OF NEW CEILING & LIGHTING SYSTEMS - SEE ARCHITECTURAL RCPS (A601) AND MEP DRAWINGS FOR FURTHER INFO
- IN THE RECD AREA, REMOVE AND STORE CEILING TILES, AS NEEDED FOR MEP WORK - UPON COMPLETION OF MEP WORK, REINSTALL CEILING TILES - SEE ARCHITECTURAL RCPS (A601) AND MEP DRAWINGS FOR FURTHER INFO
- IN THE DOUBLE HEIGHTED SPACE, REMOVE & DISPOSE OF 3 EXISTING LIGHTING FIXTURES - COORDINATE WITH ACT CEILING FOR INSTALLATION OF NEW LIGHTING AS PER A601 - SEE ELECTRICAL DRAWINGS FOR FURTHER INFO
- REMOVE & DISPOSE LINEAR DIFFUSER AT SOFFIT/WALL ABOVE - PREP FOR NEW LINEAR DIFFUSER AS REQ'D TO FIT NEW STAIR - DELUGE SPRINKLERS AND LIGHTING IN SOFFIT ARE TO REMAIN AS IS AND BE PROTECTED DURING ALL PHASES OF CONSTRUCTION - PATCH & MATCH FINISHES WITH ADJACENT FINISHES - SEE MEP DRAWINGS FOR FURTHER INFO
- REMOVE PART OF EXIST GWB SOFFIT SYSTEM ABOVE - PROTECT THE EXIST & ADJACENT SURFACES FROM DAMAGE DURING DEMO & NEW CONSTRUCTION - PREP FOR INSTALLATION OF NEW GWB CEILING - PATCH & MATCH TO ADJACENT FINISHED SURFACES
- REMOVE & DISPOSE EXIST FLOOR FINISH - PREP FLOOR FOR NEW FLOOR FINISH - COORD. W/ NEW CONSTRUCTION
- REMOVE & REPLACE EXISTING FLOOR OUTLETS - SEE ELECTRICAL DRAWINGS FOR MORE INFO ON SCOPE
- REMOVE, STORE AND REINSTALL COMPUTER STATION AND ALL RELATED EQUIPMENT IN A NEW LOCATION UPON COMPLETION OF WORK
- RELOCATE EXISTING DELUGE SPRINKLER HEAD IN NEW 8FT CEILING UNDER MEZZANINE - SEE MEP DRAWINGS FOR MORE INFO - ALL OTHER DELUGE SPRINKLERS ARE TO REMAIN AS IS-TYP
- REMOVE 2 PANELS OF HOLLOW METAL WINDOW ASSEMBLY AND PARTITION WALL BELOW - PROTECT THE EXIST & ADJACENT SURFACES FROM DAMAGE DURING DEMO AND NEW CONSTRUCTION - SEE ARCHITECTURAL DRAWINGS FOR MORE INFO AND NEW CONSTRUCTION INSTALLATION
- REMOVE OPERABLE PARTITION WALL AND ALL ASSOCIATED COMPONENTS - SEE CONSULTANT DRAWINGS FOR ANY ADDITIONAL INFO
- UPON REMOVAL OF ADJACENT WALL AND PARTITION WALL, PREP COLUMN WRAP FOR NEW WORK - PATCH & MATCH FINISHES WITH ADJACENT FINISHES



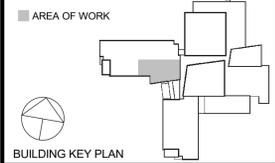
**3 DEMO ELEVATION @ DOUBLE-HEIGHT SPACE**  
1/8" = 1'-0"



**2 3RD FLOOR - DEMO PLAN**  
1/8" = 1'-0"



**1 2ND FLOOR - DEMO PLAN**  
1/8" = 1'-0"



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Professional Seal

5	01/18/2023	REISSUE FOR BID
3	11/02/2022	ISSUE FOR BID
1	05/25/2022	NYSED - CONST. DOCS.
No.	Date	Issue

**DEMOLITION  
PLANS**

Job No.	2021-1080	Date	01/11/2023
Scale	AS NOTED	Drawn / Checked	KG+D
Sheet Number	A101		

**FLOOR PLAN GENERAL NOTES**

- WHERE FURRED PARTITIONS EXCEED MAXIMUM HEIGHT, BRACE TO ADJACENT STRUCTURE.
- ALL INTERIOR PARTITION, PENETRATIONS, OTHER OPENINGS IN THE BUILDING SHELL SHALL BE SEALED, GASKETED, OR WEATHER STRIPPED.
- PROVIDE METAL STUD ANCHOR BRACKERS AT LOCATIONS INCLUDING, BUT NOT LIMITED TO: SHELVING, OVERHEAD CABINETS, WALL MOUNTED AV EQUIPMENT, ETC.
- ALL PARTITIONS ARE DIMENSIONED FROM FACE OF FINISH UON. ALL DIMENSIONS MARKED "CLEAR" OR "CLR" SHALL BE MAINTAINED AND SHALL ALLOW FOR THICKNESS OF ALL WALL FINISHES. DIMENSIONS SHALL NOT VARY MORE THAN +/- 1/8" WITHOUT WRITTEN CONSENT FROM THE ARCHITECT.
- EXISTING STUD WALLS TO REMAIN TO BE FLOATED AS REQUIRED TO PROVIDE SMOOTH SUBSTRATE. PREPARE FOR INSTALLATION OF NEW FINISHES.
- PROVIDE ADJACENT PARTITION TYPE ABOVE ALL STOREFRONT SYSTEMS.
- LOCATE DOORS 4" FROM FACE OF ADJACENT WALL TO EDGE OF DOOR DRAPE, UON. (SEE DETAILS ON A901)
- ALL EXISTING BOOKSTACKS, THAT ARE TO REMAIN, MUST BE STORED IN ANOTHER ROOM INDICATED BY THE DIRECTOR OF FACILITIES. OTHERWISE, THE BOOKSTACKS ARE TO BE PROTECTED FROM DAMAGE DURING ALL PHASES OF CONSTRUCTION.

**FLOOR PLAN LEGEND**

EXISTING ROOM OR SPACE TO REMAIN. AREA NOT INCLUDED IN SCOPE OF WORK. SPECIFIC WORK MAY BE SHOWN ELSEWHERE. REFER TO M.E.P. DWGS.

EXISTING PARTITION TO REMAIN

NEW PARTITION

EXISTING GLAZED OPENING

NEW GLAZED OPENING

**FIRE-RESISTANCE RATED CONSTRUCTION:**

EXISTING 1HR DELUGE SPRINKLER IN CEILING ABOVE

EXISTING 1HR PARTITION

EXISTING 2HR PARTITION

NEW 1HR PARTITION

NEW 2HR PARTITION

IDENTIFY WALL TYPE AND RATING. SEE A802 FOR MORE INFO

EXISTING DOOR TO REMAIN (U.N.O.)

NEW DOOR & DOOR TAG  
- SEE A901 FOR DOOR SCHEDULE AND OTHER INFORMATION  
- SEE SPEC FOR HARDWARE INFO

ALIGN FINISH FACE OF NEW WALL WITH FINISH FACE OF THE EXISTING, ADJ. WALL

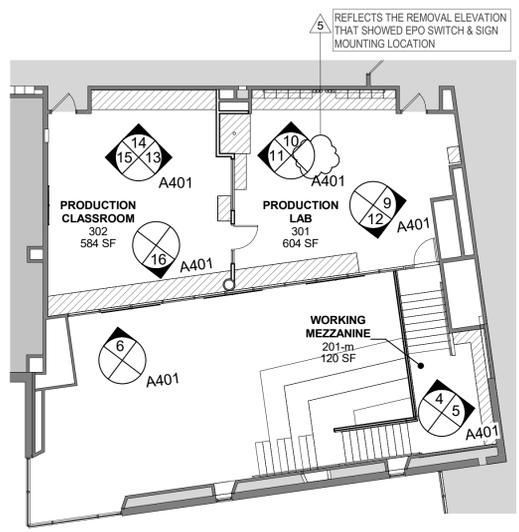
NEW MILLWORK. SEE A400s AND SPEC FOR MORE INFO

WALL TAG  
SEE A901 FOR MORE INFORMATION

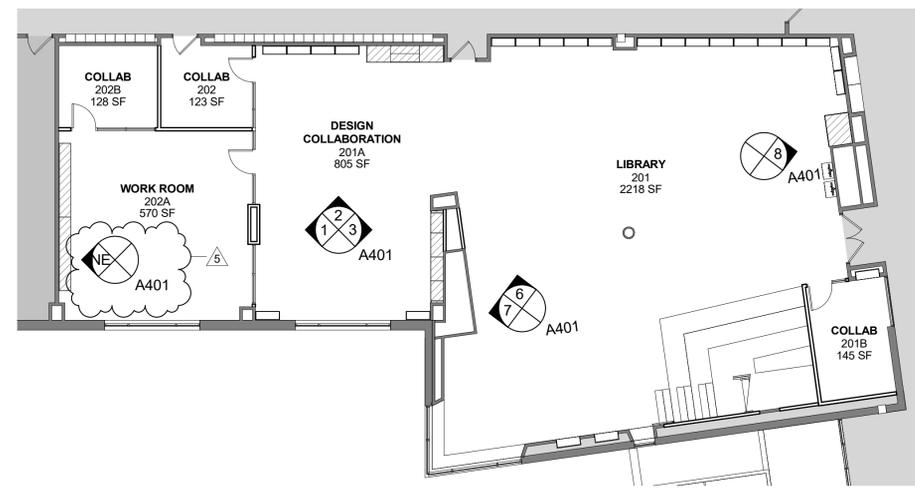
HM FRAME WINDOW TAG  
SEE A901 FOR MORE INFORMATION

NEW CONSTRUCTION KEYNOTE

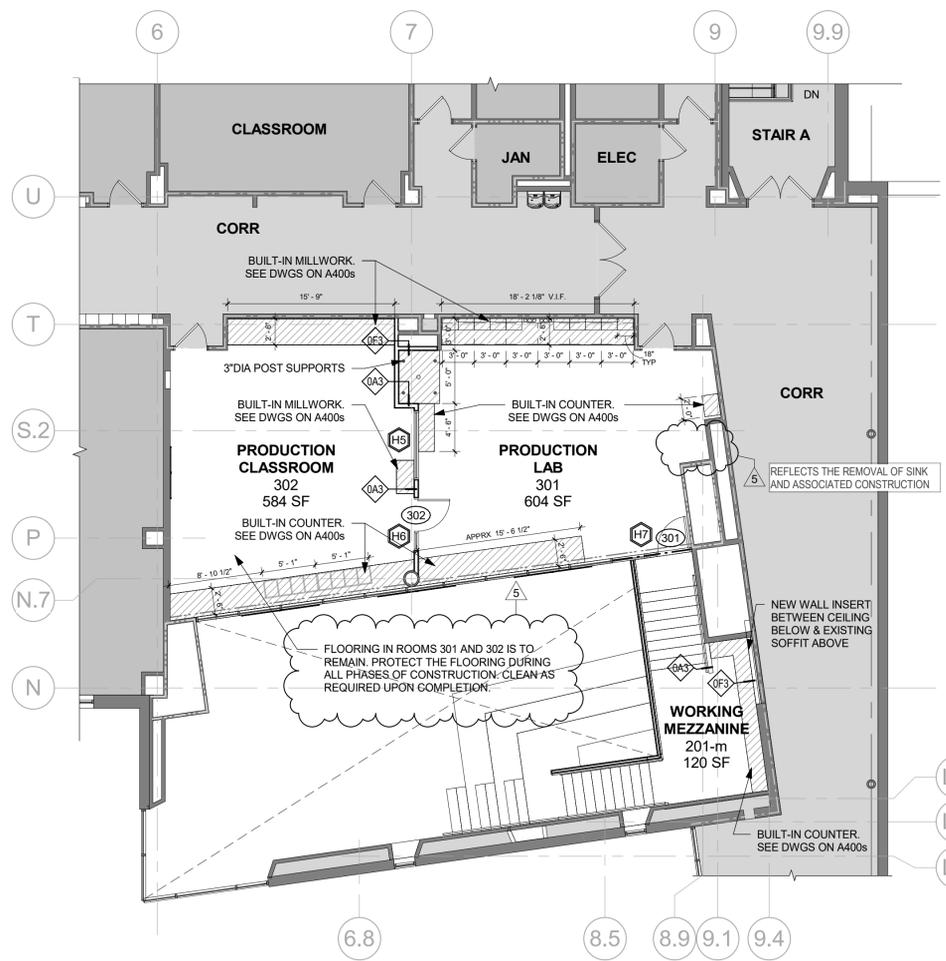
EXISTING RESCUE WINDOW (50"H x 30"W)



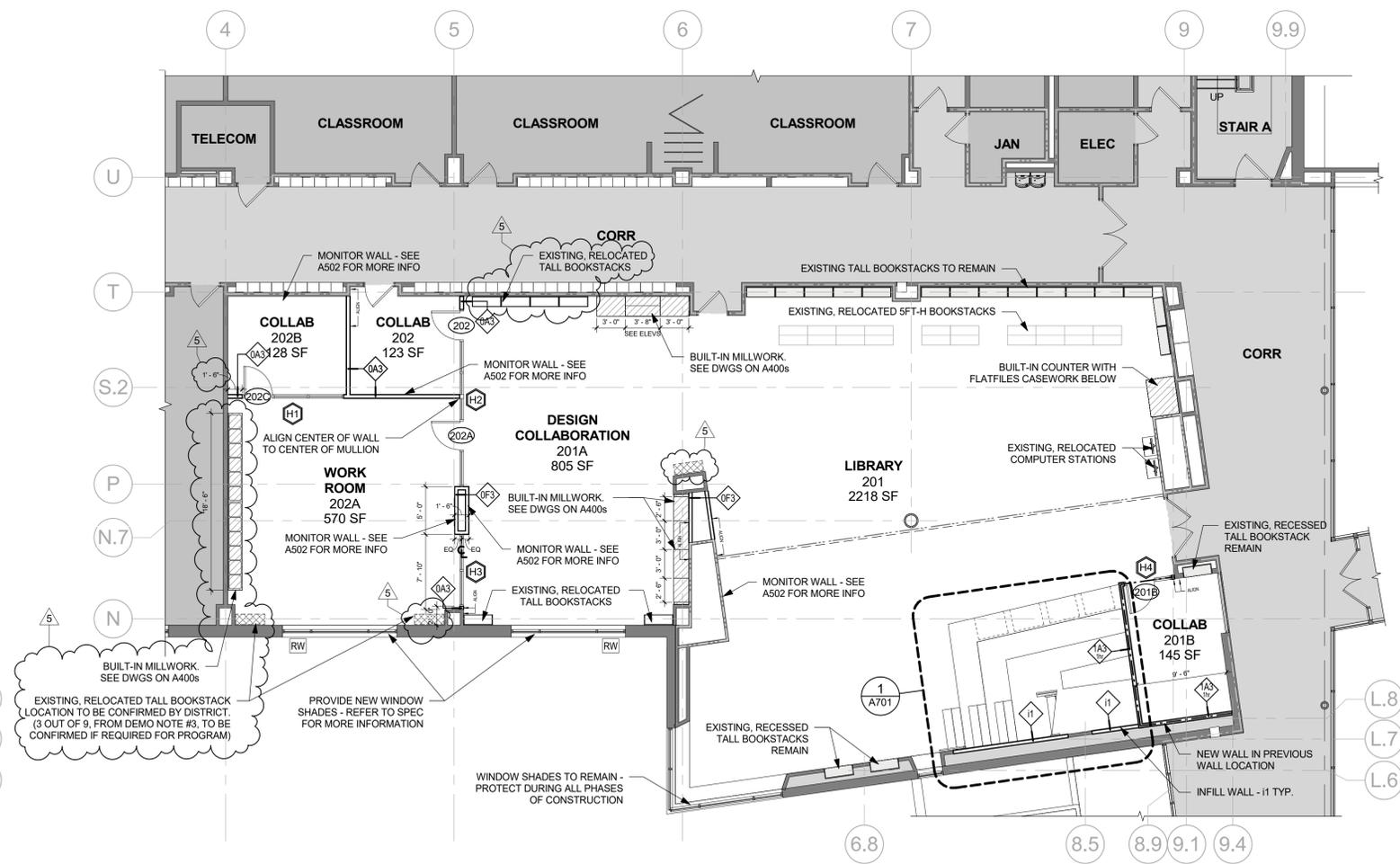
**4 3RD FL - INT. ELEV KEY PLAN**  
3/32" = 1'-0"



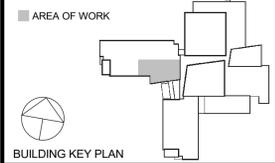
**3 2ND FL - INT. ELEV KEY PLAN**  
3/32" = 1'-0"



**2 3RD FLOOR PLAN**  
1/8" = 1'-0"



**1 2ND FLOOR PLAN**  
1/8" = 1'-0"



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3	11/02/2022	ISSUE FOR BID
2	06/16/2022	NYSED - ADDENDUM #1
1	05/25/2022	NYSED - CONST. DOCS.
No.	Date	Issue

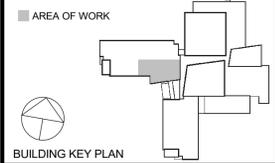
**AREA OF WORK  
FLOOR PLANS**

Job No.	2021-1080	Date	01/11/2023
Scale	AS NOTED	Drawn / Checked	KG+D

Sheet Number  
**A201**

**CONSTRUCTION  
DOCUMENTS**

**GENERAL NOTES:**  
- ARCHITECTURAL INT. ELEVATIONS ARE ONLY SHOWING NEW DATA & OUTLET WALL LOCATIONS. REFER TO ELEC DWGS FOR MORE INFO ABOUT EXISTING OR REPLACED RECEPTACLES.  
- OUTLETS ARE 18" A.F.F. (CENTERED), TYP. REFER TO INT. ELEVATIONS & DETAILS FOR OUTLET LOCATIONS AT COUNTERS, MONITORS, EQUIPMENT, ETC.



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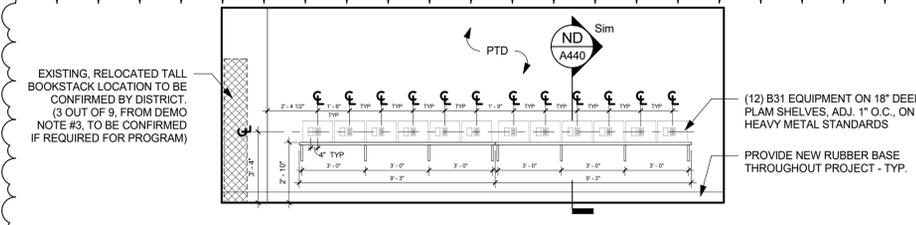
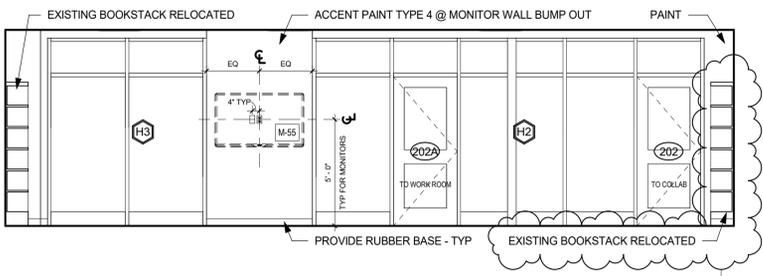
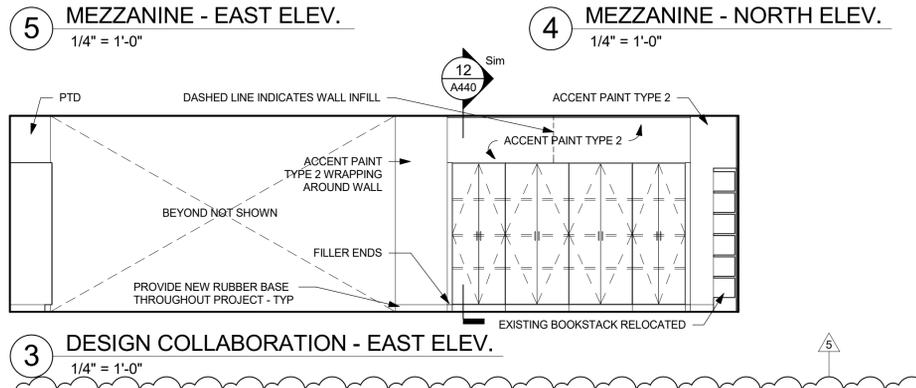
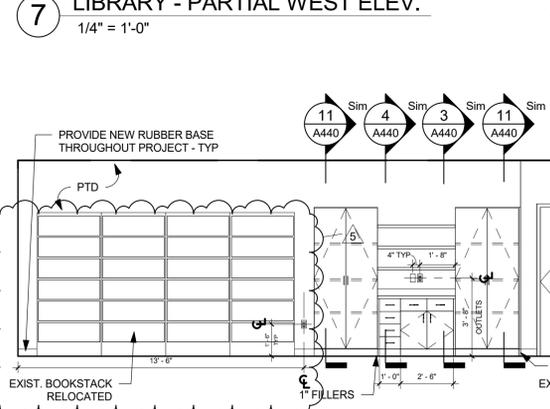
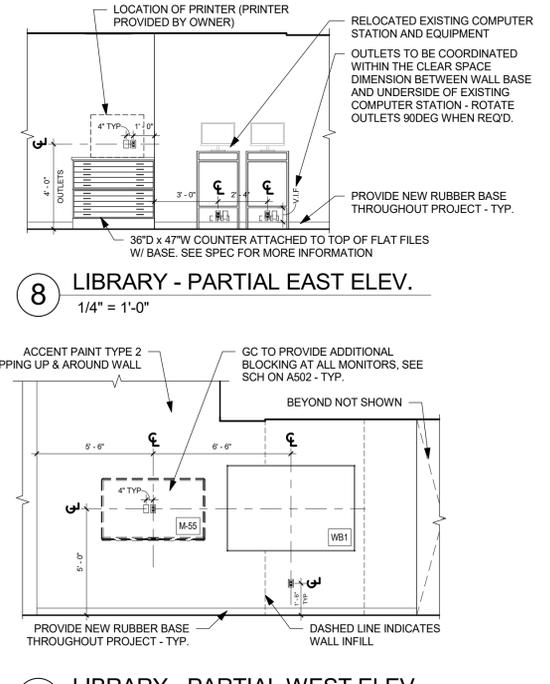
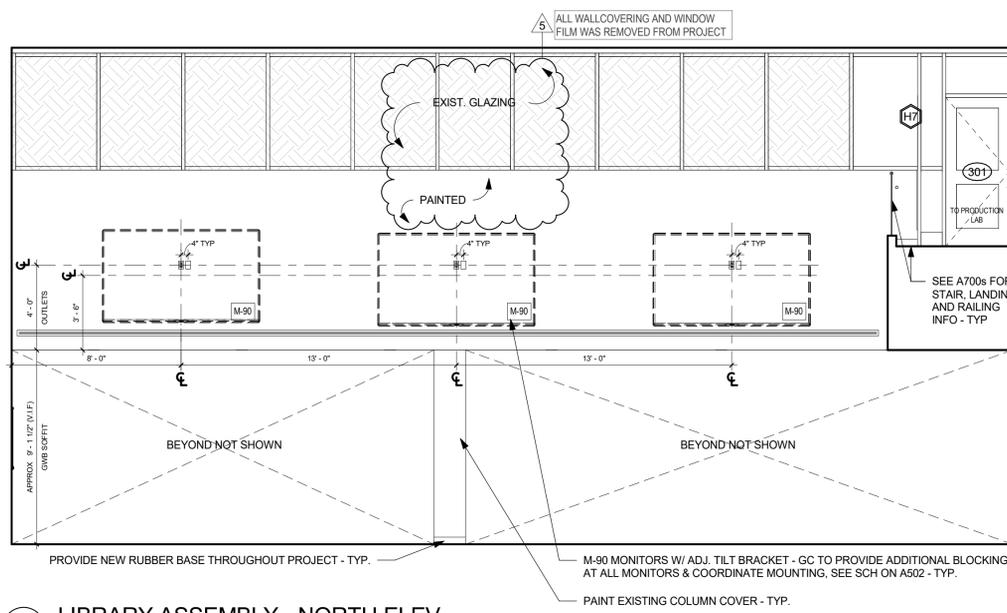
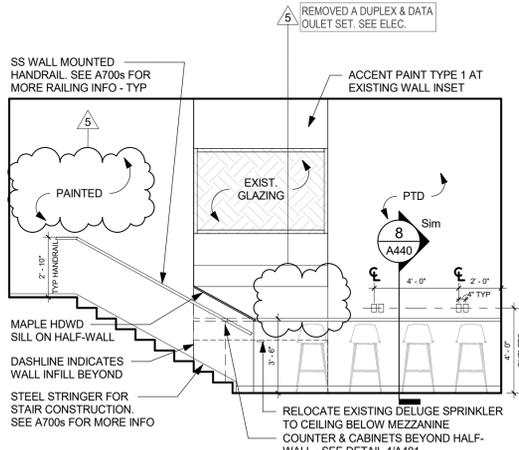
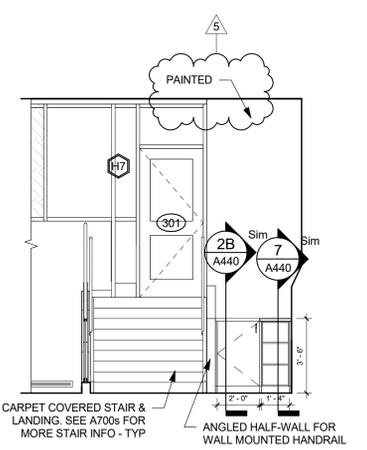
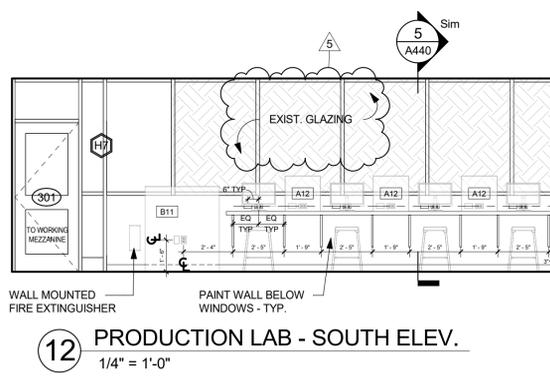
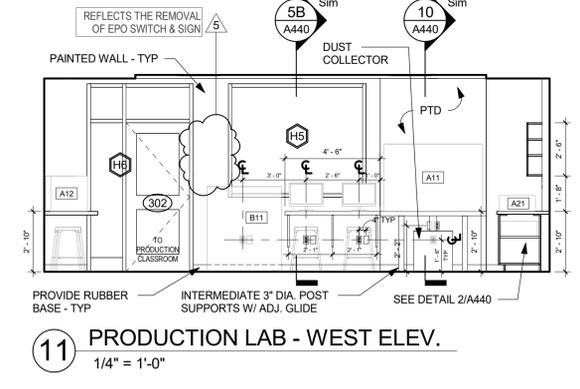
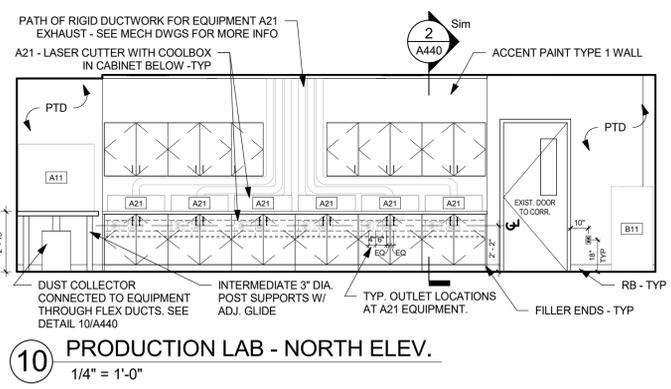
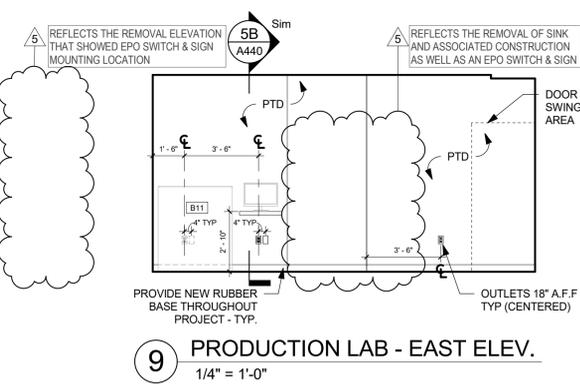
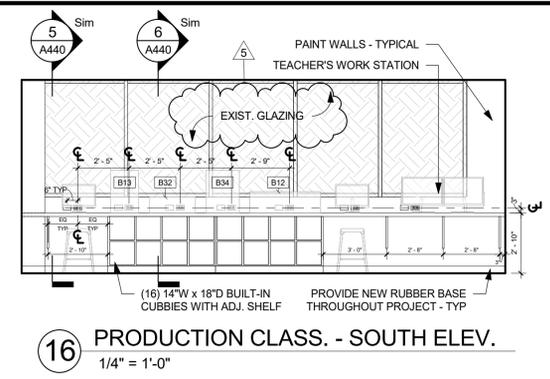
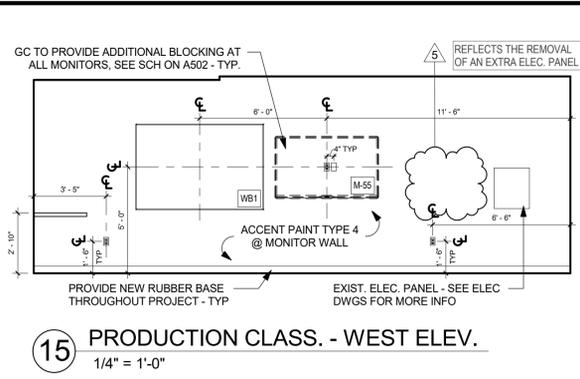
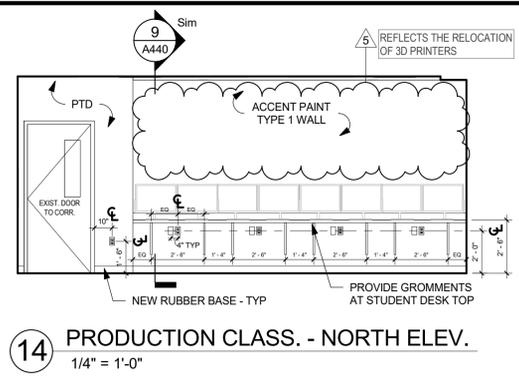
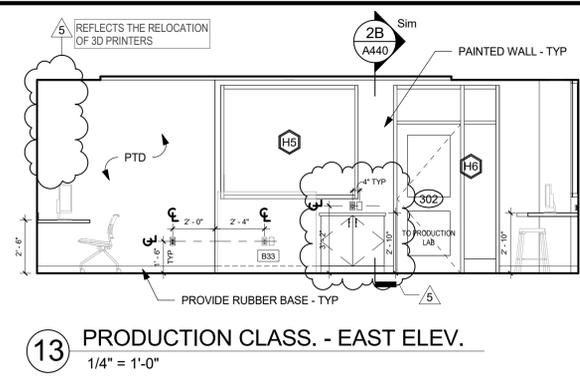


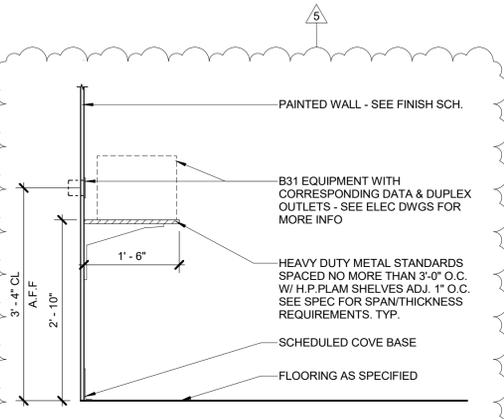
5	01/18/2023	REISSUE FOR BID
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1	05/25/2022	NYSED - CONST. DOCS.
No.	Date	Issue

**INTERIOR  
ELEVATIONS**

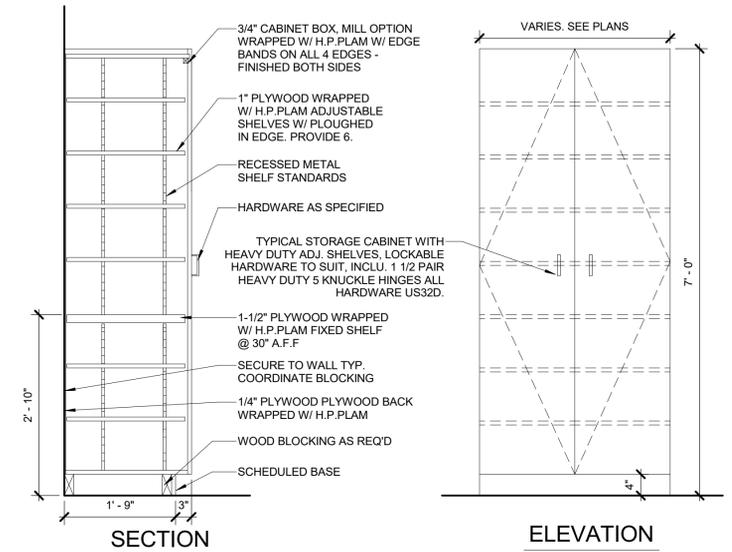
Job No.	2021-1080	Date	01/11/2023
Scale	AS NOTED	Drawn / Checked	KG+D
Sheet Number			

**A401**

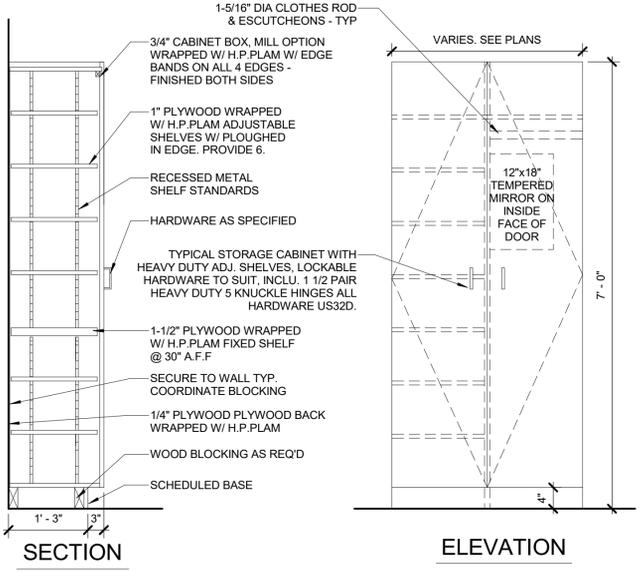




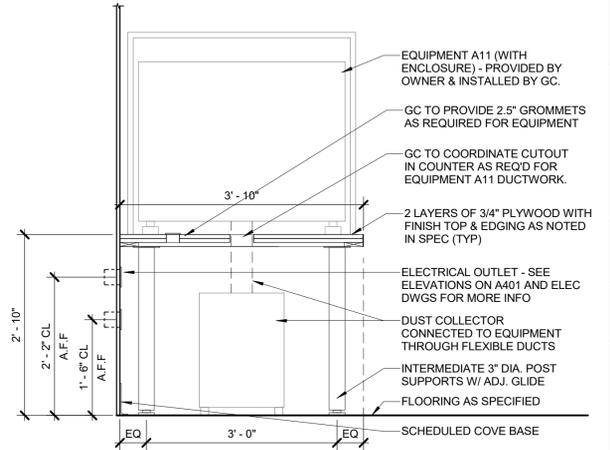
**ND SECTION @ 3D PRINTER SHELF**  
3/4" = 1'-0"



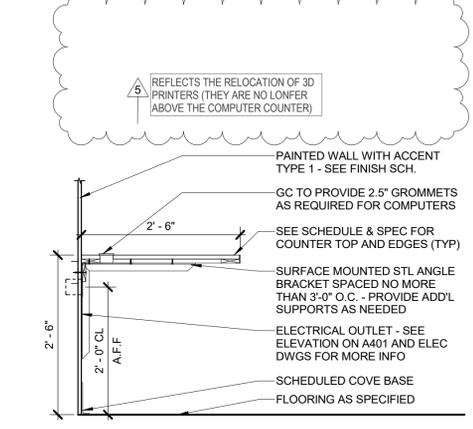
**12 TYPICAL STORAGE CABINET**  
3/4" = 1'-0"



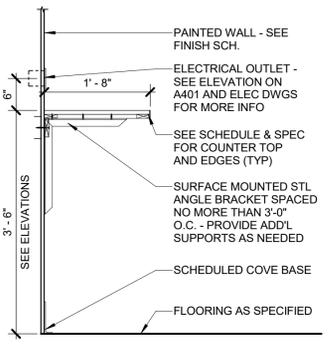
**11 TYPICAL WARDROBE CABINET**  
3/4" = 1'-0"



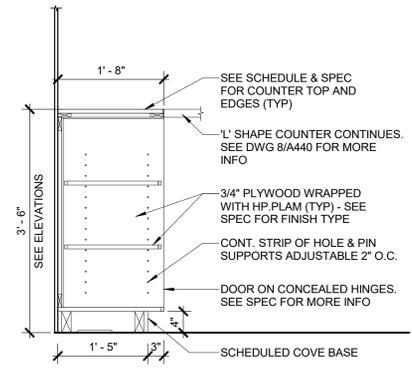
**10 SECTION @ CNC ROUTER COUNTER**  
3/4" = 1'-0"



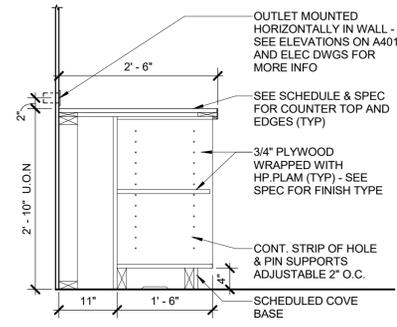
**9 SECTION @ COMPUTER COUNTER**  
3/4" = 1'-0"



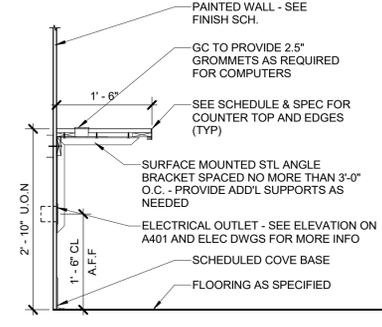
**8 SECTION @ MEZZANINE**  
3/4" = 1'-0"



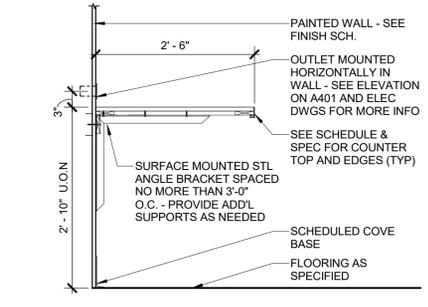
**7 SECTION @ BASE SHELVING**  
3/4" = 1'-0"



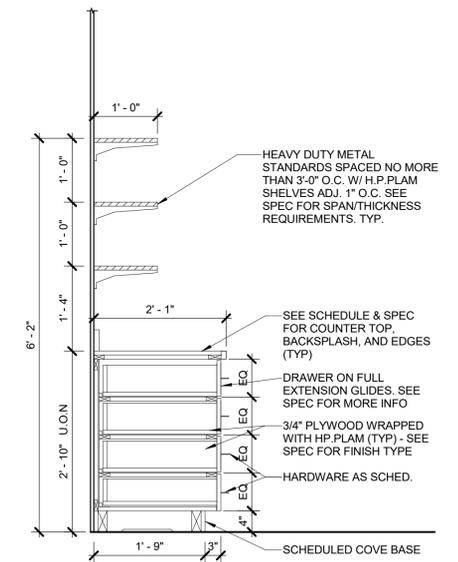
**6 SECTION @ BASE CUBBY**  
3/4" = 1'-0"



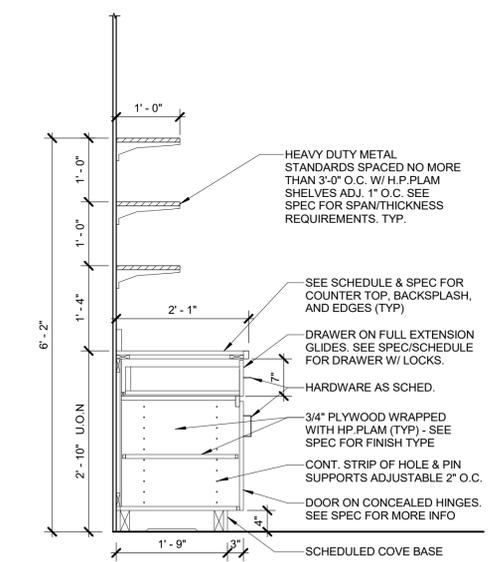
**5B SECTION @ WORK COUNTER**  
3/4" = 1'-0"



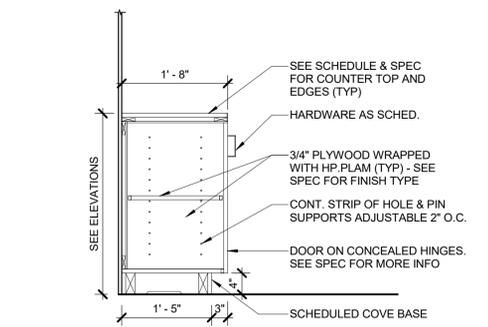
**5 SECTION @ DEEP COUNTERTOP**  
3/4" = 1'-0"



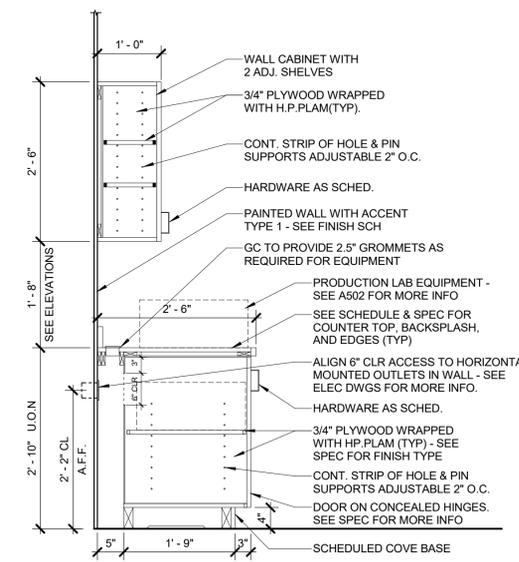
**4 SECTION @ CABINET W/ DRAWERS**  
3/4" = 1'-0"



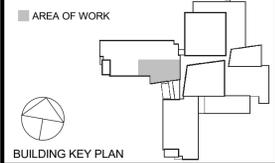
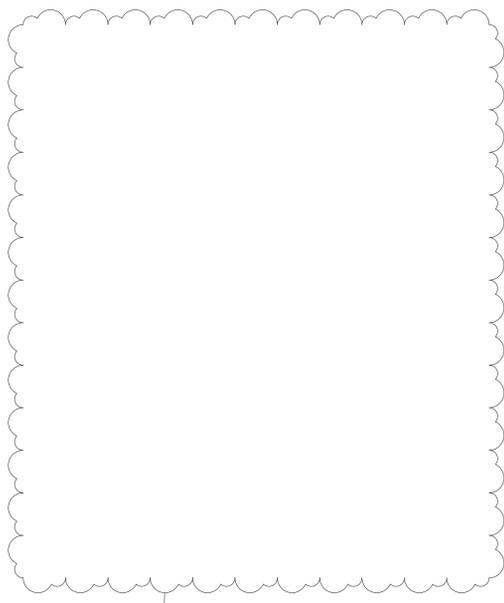
**3 SECTION @ BASE CABINETS W/ 1 DRAWER**  
3/4" = 1'-0"



**2B SECTION @ BASE CABINET**  
3/4" = 1'-0"



**2 SECTION @ BASE & WALL**  
3/4" = 1'-0"



AREA OF WORK

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REGISTERED ARCHITECT  
ARCHITECT AT LARGE  
KG+D ARCHITECTS PC  
STATE OF NEW YORK

No.	Date	Issue
5	01/18/2023	REISSUE FOR BID
3	11/02/2022	ISSUE FOR BID
1	05/25/2022	NYSED - CONST. DOCS.

Sheet Title

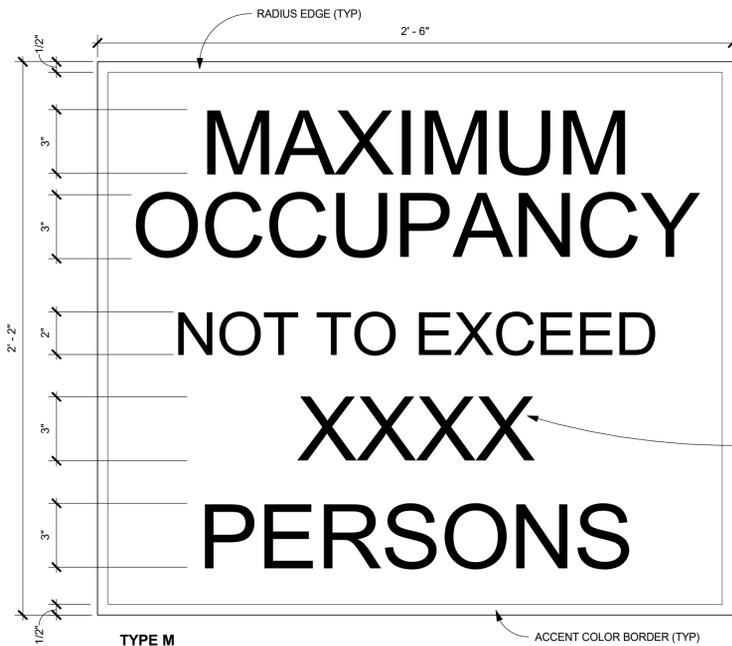
**MILLWORK  
DETAILS**

Job No. 2021-1080 Date 01/11/2023  
Scale AS NOTED Drawn / Checked KG+D

Sheet Number  
**A440**

SIGNAGE SCHEDULE					
ROOM #	LOCATION	SIGN TYPE	SIGN TEXT (TEXT TO BE CONFIRMED WITH OWNER)	DESCRIPTION	QTY
201	LIBRARY	M	116 OCCUPANTS	SEE TYPE M DRAWING FOR MORE DETAILS	2

REFLECTS THE REMOVAL OF THE EPO SIGNS AND DEDICATION PLAQUE



**TYPE M**  
OCCUPANCY SIGN SCALE: 3" = 1'-0"  
SEE SPECIFICATIONS FOR DETAILS

REPLACE WITH OCCUPANCY NUMBER. SEE SIGNAGE SCHED.

REFLECTS THE REMOVAL OF THE EPO SIGNS AND DEDICATION PLAQUE

ROOM #	ROOM NAME	Finish Schedule												Comments	
		FLOOR		NORTH WALL		EAST WALL		SOUTH WALL		WEST WALL		CEILING			
		FIN	BASE	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN	MAT	FIN		HT
201	LIBRARY	CPT1	RB	EXIST	PTD	EXIST/GWB	PTD	EXIST/GWB/WW	PTD	EXIST/GWB	PTD	EXIST/GWB	EXIST, PTD	EXIST/M.EX	SEE A401 FOR WC LOCATION & SEE A501 FOR ACCENT PAINT LOCATIONS
201A	DESIGN COLLABORATION	CPT1	RB	EXIST	PTD	EXIST	PTD	EXIST	PTD	EXIST/GWB/WW	PTD	EXIST	EXIST	EXIST	ACCENT PAINT TYPE 2 ON EAST WALL & TYPE 4 ON WEST WALL/MONITOR BUMP OUT
201B	COLLAB	CPT3	RB	EXIST/WW	PTD	EXIST	PTD	GWB	WPT	GWB	PTD	ACT	FF	8'-0" AFF	ACCENT PAINT TYPE 4 ON WEST WALL/MONITOR WALL
202	COLLAB	CPT3	RB	EXIST	PTD	GWB/WW	PTD	GWB/WW	PTD	EXIST/GWB	WPT	ACT/GWB	FF/PTD	SEE RCPs	ACCENT PAINT TYPE 4 ON SOUTH WALL/MONITOR WALL
202A	WORK ROOM	CPT2 + CPT3	RB	GWB/WW	PTD	GWB/WW	PTD	EXIST	PTD	ACT	FF	ACT	FF	9'-2"	ACCENT PAINT TYPE 4 ON EAST WALL/MONITOR BUMP OUT
202B	COLLAB	CPT3	RB	EXIST	PTD	GWB	WPT	GWB/WW	PTD	EXIST	PTD	ACT/GWB	FF/PTD	SEE RCPs	ACCENT PAINT TYPE 4 ON NORTH WALL/MONITOR WALL
201-m	WORKING MEZZANINE	CPT1 + CPT3	RB	EXIST/WW	PTD	EXIST/GWB	PTD	EXIST	PTD	-	-	EXIST	EXIST	EXIST	SEE A401 FOR WC LOCATION & SEE A501 FOR ACCENT PAINT LOCATIONS
301	PRODUCTION LAB	EXIST	RB	EXIST/GWB	PTD	EXIST	PTD	EXIST/WW	PTD	EXIST/GWB/WW	PTD	EXIST/GWB	EXIST, PTD	EXIST/M.EX	ACCENT PAINT TYPE 1 BEHIND CABINETS AT NORTH WALL
302	PRODUCTION CLASSROOM	EXIST	RB	EXIST	PTD	GWB/WW	PTD	EXIST/WW	PTD	EXIST	PTD	EXIST/GWB	EXIST, PTD	EXIST/M.EX	ACCENT PAINT TYPE 1 BEHIND COUNTER & SHELVES AT NORTH WALL & ACCENT PAINT TYPE 4 ON WEST WALL/MONITOR WALL

**FINISH SCHEDULE ABBREVIATION KEY:**

ACT	ACOUSTIC CEILING TILE	PTD	PAINT
CPT	CARPET	RB	RUBBER BASE
EXIST	EXISTING MATERIAL	WW	WINDOW WALL
GWB	GYPSUM WALL BOARD	WPT	WHITEBOARD PAINT
M.EX	MATCH EXISTING		

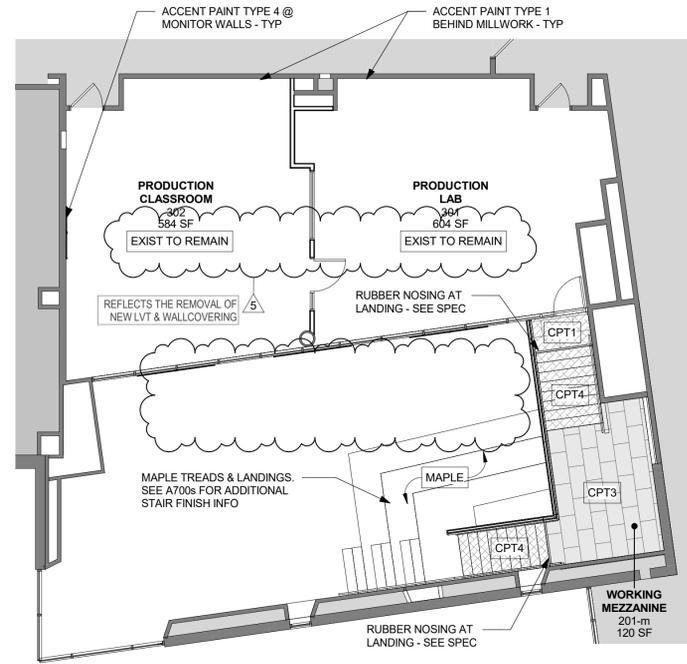
(\* NUMBER INDICATES STYLE; REFER TO SPEC)

**FLOOR FINISH LEGEND:**

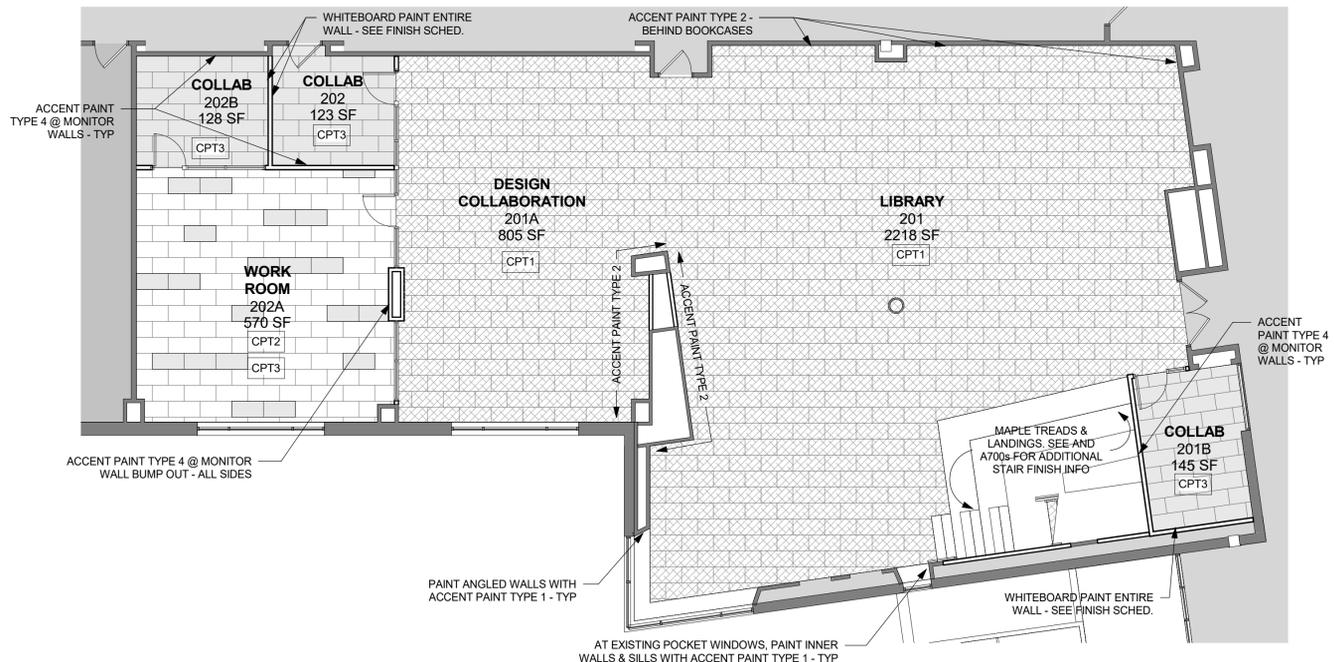
	CPT1		CPT4 (STAIR ONLY)
	CPT2		
	CPT3		

REFLECTS THE REMOVAL OF LVT AND WALLCOVERING

REFLECTS THE REMOVAL OF FABRIC CUSHIONS ON THE TIERED SEATS



**2 3RD FLOOR - FINISH PLANS**  
1/8" = 1'-0"



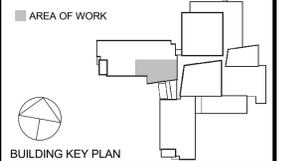
**1 2ND FLOOR - FINISH PLANS**  
1/8" = 1'-0"

**CHESTER ACADEMY STEM LAB ALTERATIONS**  
CHESTER UNION FREE SCHOOL DISTRICT  
64 HAMBLETONIAN AVENUE  
CHESTER, NY 10918

**KG+D** listen imagine build  
ARCHITECTS PC  
285 MAIN STREET MOUNT KISCO, NEW YORK, 10549  
P: 914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.  
44-02-01-02-0-009-006

**CONSTRUCTION DOCUMENTS**



**AREA OF WORK**

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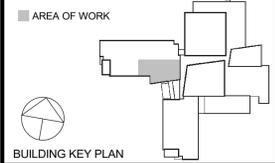
5	01/18/2023	REISSUE FOR BID
3	11/02/2022	ISSUE FOR BID
1	05/25/2022	NYSED - CONST. DOCS.

Sheet Title  
**FINISH PLANS AND SCHEDULES & SIGNAGE INFORMATION**

Job No.	2021-1080	Date	01/11/2023
Scale	AS NOTED	Drawn / Checked	KG+D

Sheet Number  
**A501**





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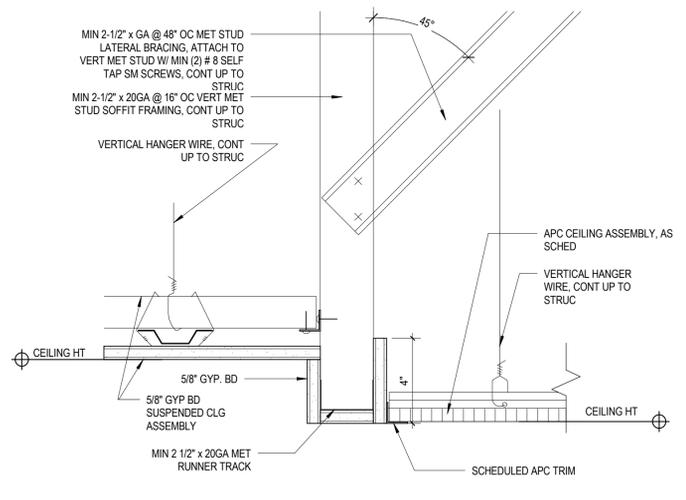
No.	Date	Issue
5	01/18/2023	REISSUE FOR BID
4	11/16/2022	BID ADDENDUM #1
3	11/02/2022	ISSUE FOR BID
1	05/25/2022	NYSED - CONST. DOCS.

Sheet Title  
**AREA OF WORK  
REFLECTED  
CEILING PLAN**

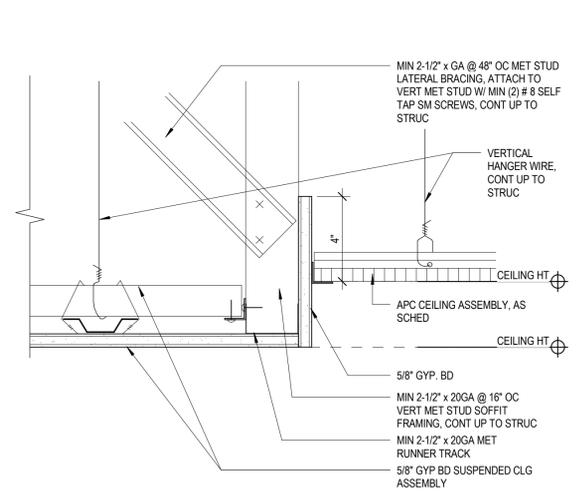
Job No. 2021-1080	Date 01/11/2023
Scale AS NOTED	Drawn / Checked KG+D

Sheet Number  
**A601**

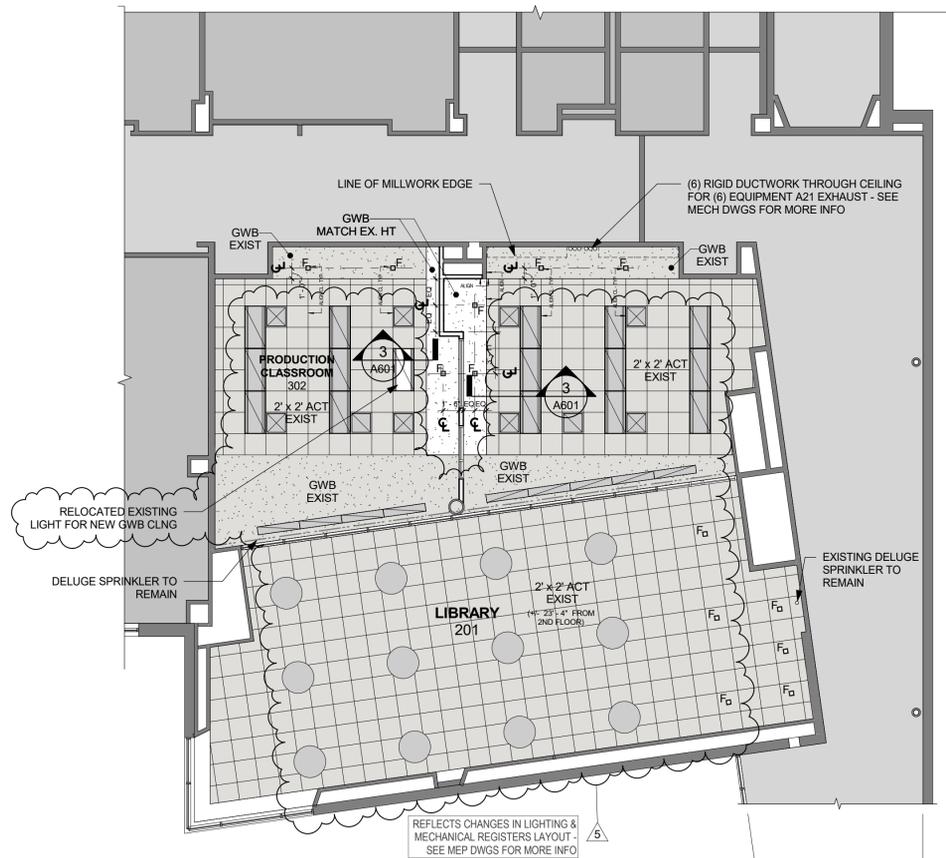
- CEILING NOTES**
- 1 DENOTES AREA OF NO ARCHITECTURAL WORK, U.O.N. - SEE M.E.P. DWGS.
  - 2 CEILING GRIDS ARE TO BE CENTERED IN ROOM. ALL CEILING FIXTURES, INCLUDING SMOKE DETECTORS, HVAC REGISTERS, ETC. ARE TO BE CENTERED IN CEILING TILES.
  - 3 SEE ELECTRICAL DRAWINGS FOR LIGHTING FIXTURE SCHEDULE
  - 4 SEE DWG. A501 FOR FINISH SCHEDULE
  - 5 CEILING HEIGHTS SHOWN IN RCPs, SECTIONS, & DETAILS SHALL TAKE PRECEDENCE OVER HEIGHTS INDICATED ON SCHEDULES
  - 6 DENOTES NEW CEILING SYSTEMS
  - 7 DENOTES EXISTING CEILING SYSTEMS - ENTIRE ACT CEILING SYSTEM TO BE STORED DURING CONSTRUCTION & REINSTALLED UPON COMPLETION OF MEP WORK
  - 8 ALIGN CEILING EDGE WITH FINISH FACE OF ADJACENT WALL
  - 9 DENOTES SUPPLY REGISTERS - SEE MEP DWGS
  - 10 DENOTES RETURN REGISTERS - SEE MEP DWGS
  - 11 ALL PENDANT LIGHTS TO BE MOUNTED 12" FROM THE CEILING TO BOTTOM OF FIXTURE, U.O.N. COORDINATE ALL FINAL MOUNTING HEIGHTS WITH ARCHITECT BEFORE INSTALLATION.
  - 12 DENOTES EXISTING SUPPLY & RETURN REGISTERS - SEE MEP DWGS FOR ADDITIONAL INFO
  - 13 DENOTES EXISTING LIGHTING TO REMAIN



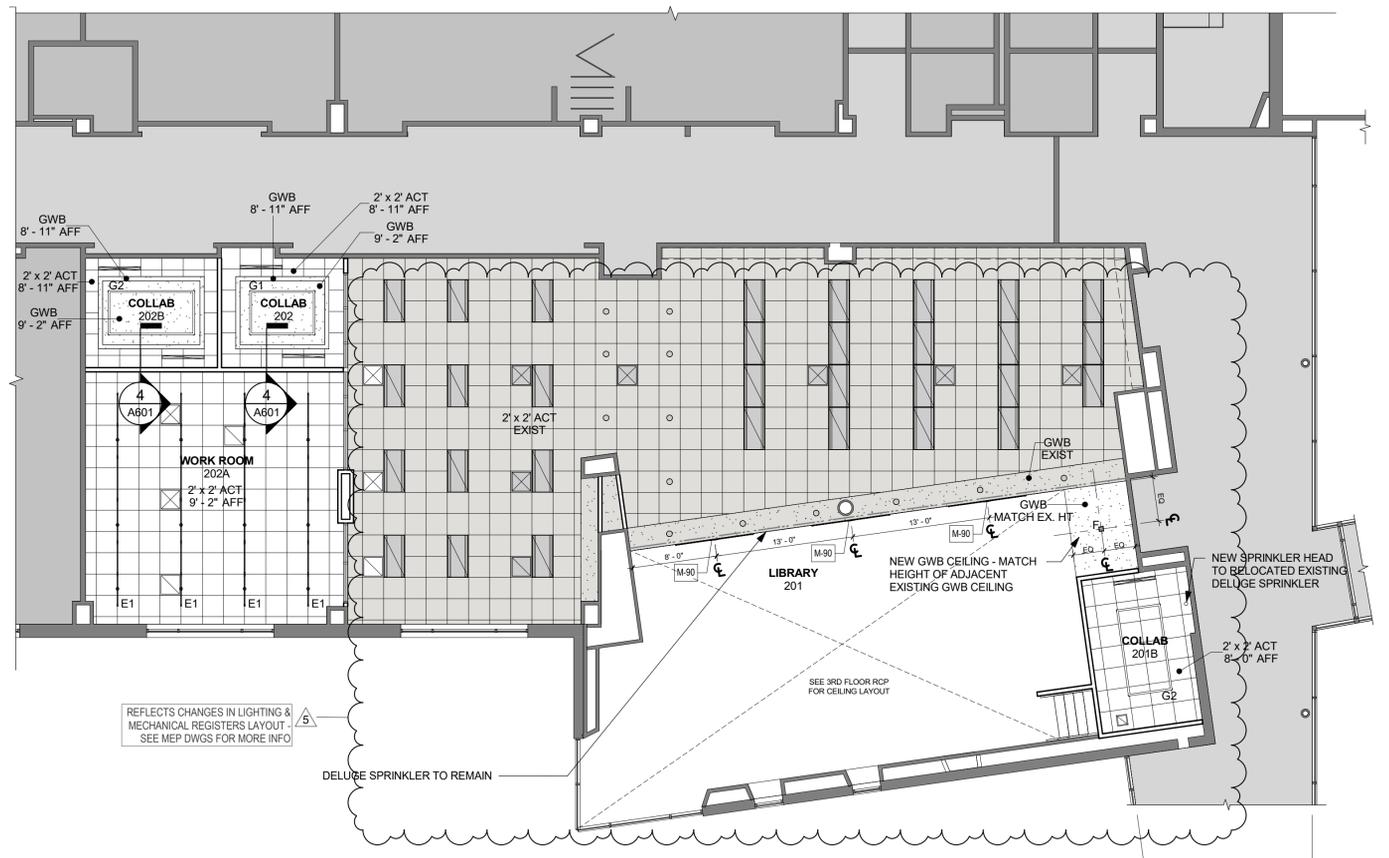
**4** CEILING DETAIL AT SOFFIT  
3" = 1'-0"



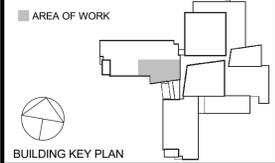
**3** CEILING DETAIL AT PERIMETER  
3" = 1'-0"



**2** 3RD FLOOR RCP  
1/8" = 1'-0"



**1** 2ND FLOOR RCP  
1/8" = 1'-0"



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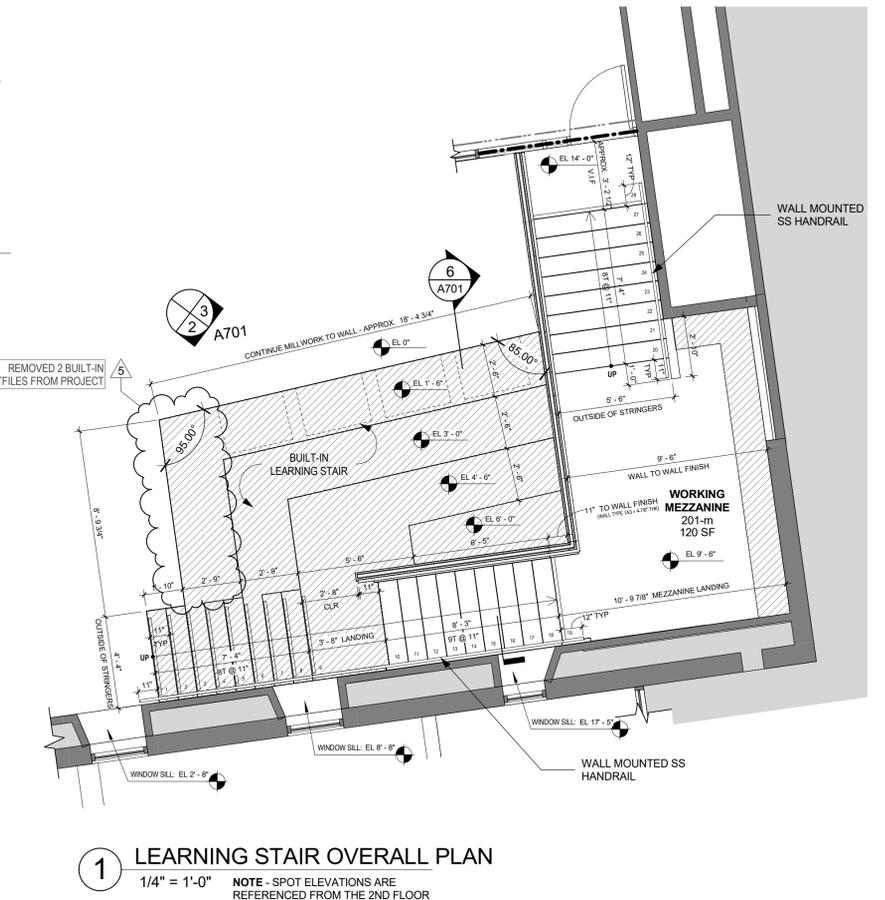
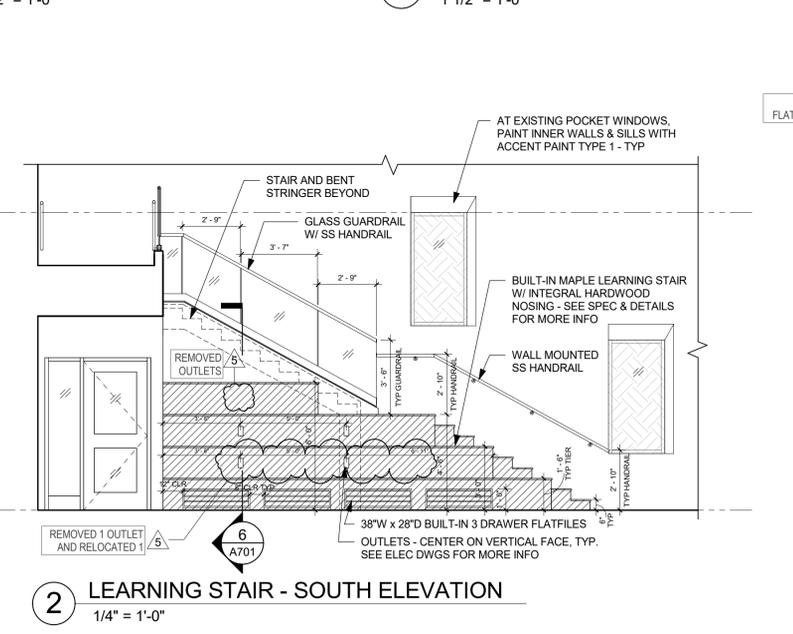
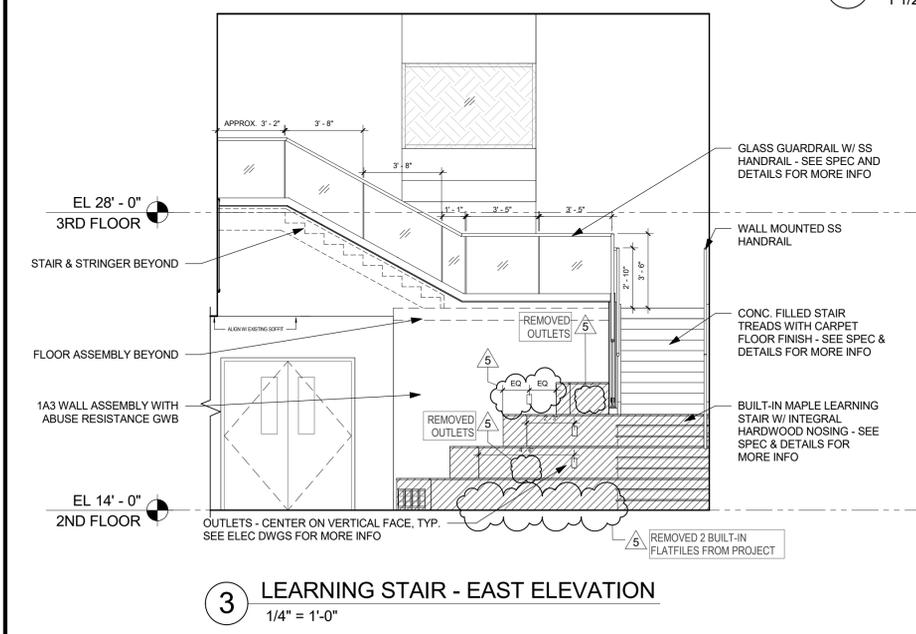
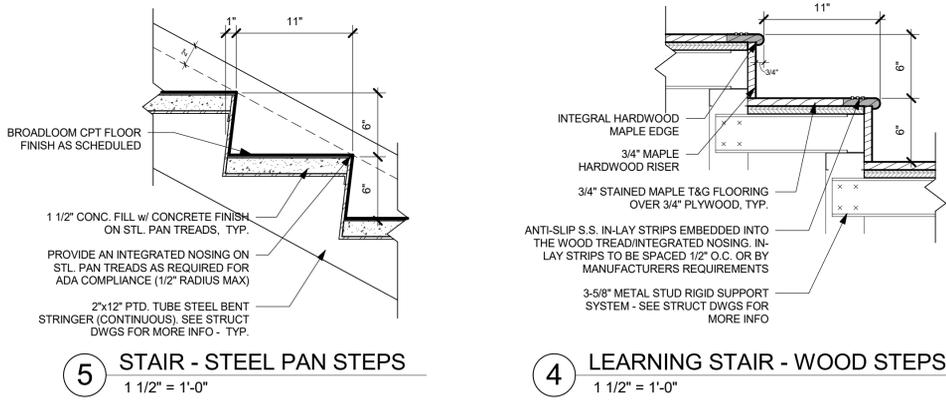
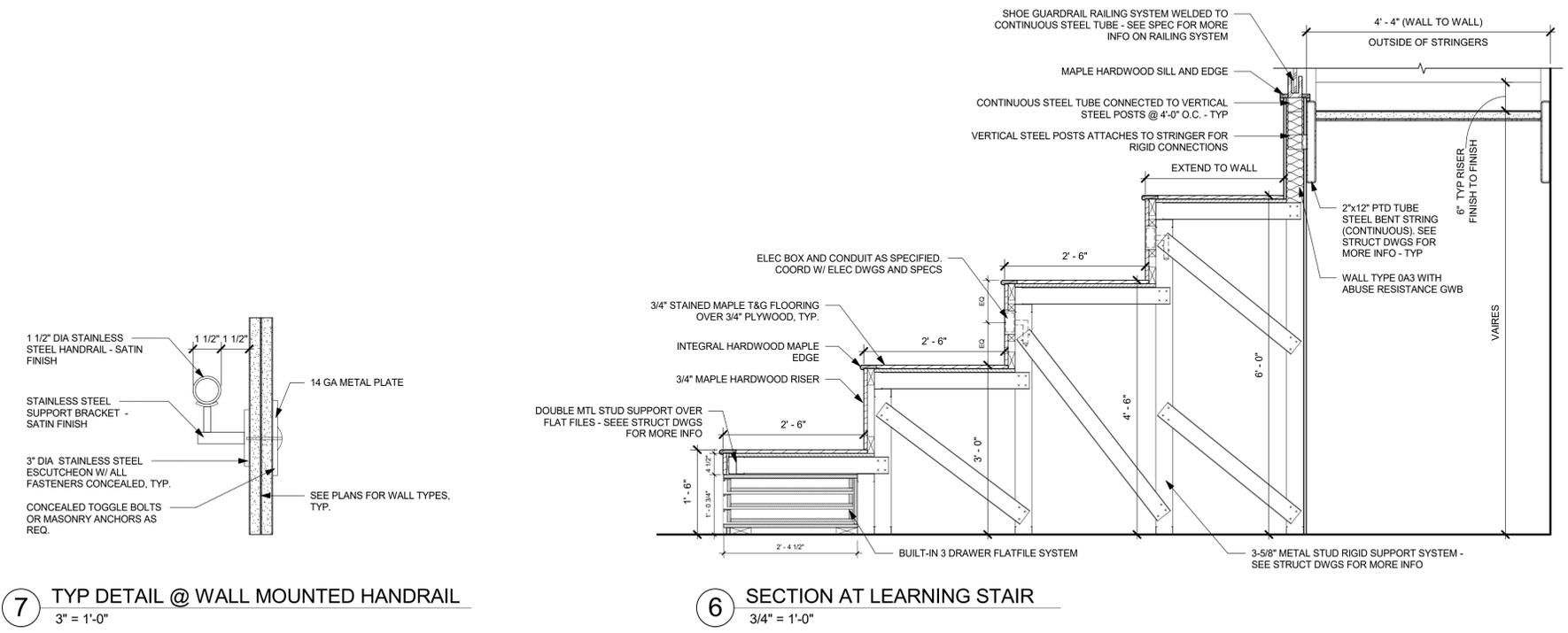
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**STAIR PLANS & SECTIONS**

Job No.	2021-1080	Date	01/11/2023
Scale	AS NOTED	Drawn / Checked	KG+D
Sheet Number	<b>A701</b>		







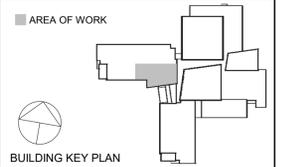
**KG+D . ARCHITECTS PC**  
285 MAIN STREET MOUNT KISCO . NEW YORK . 10549  
P:914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.

**44-02-01-02-0-009-006**

**CONSTRUCTION  
DOCUMENTS**

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8 West 38th Street,  
Suite 501  
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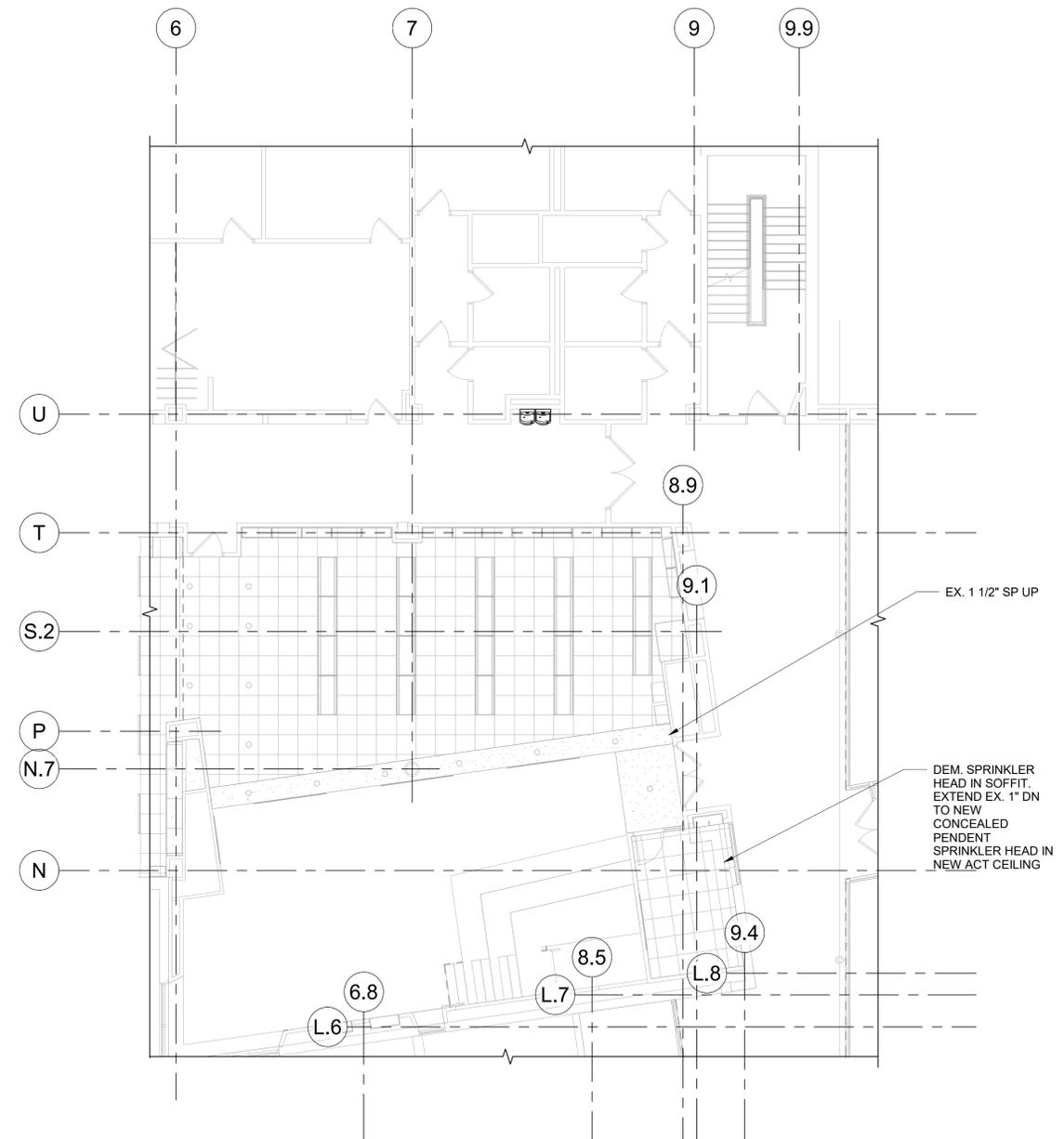
**SPRINKLER NEW  
WORK PLANS**

Job No.	NKGD0245.00	Date	05/25/2022
Scale	AS NOTED	Drawn / Checked	BS / RJ

Sheet Number

**SP201**

SYMBOL & ABBREVIATIONS		
SYMBOL	ABBREVIATION	DESCRIPTION
—	EX.	EXISTING TO REMAIN
—	NEW	NEW WORK
- - - -	DEM.	EXISTING TO BE REMOVED
•	-	PENDANT SPRINKLER HEAD, CONCEALED OR EXPOSED AS NOTED.
○	-	NEW UPRIGHT SPRINKLER HEAD



**1 SPRINKLER SECOND FLOOR NEW WORK PLAN**

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

**SYMBOL & ABBREVIATIONS**

SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
-	AD	ACCESS DOOR	— — — — —	EX.	EXISTING TO REMAIN
-	AFF	ABOVE FINISHED FLOOR	- - - - -	REL.	REMOVE AND RELOCATE
-	AHC	ABOVE HUNG CEILING	—————	NEW	NEW WORK
-	AP	ACCESS PANEL	- - - - -	DEM.	EXISTING TO BE REMOVED
-	BTU	BRITISH THERMAL UNIT	— D —	-	DRAIN
-	CFM	CUBIC FEET PER MINUTE	— HWS —	HWS	HOT WATER SUPPLY
-	CL	CENTERLINE	— HWR —	HWR	HOT WATER RETURN
-	DIA. OR Ø	DIAMETER			
-	EA	EXHAUST AIR	Ⓟ	-	THERMOSTAT
-	EAT	ENTERING AIR TEMPERATURE	Ⓜ	-	MOTORIZED DAMPER
-	EF-	EXHAUST FAN	Ⓢ	-	SMOKE DETECTOR
-	EL	ELEVATION	±	-	AIR INTO REGISTER
-	ER	EXHAUST REGISTER	⊙	-	POINT OF CONNECTION DISCONNECTION
-	ESP	EXTERNAL STATIC PRESSURE	⊥	TR	TOP REGISTER SUPPLY
-	GPM	GALLONS PER MINUTE	⊥	TR	TOP REGISTER RETURN
-	HVAC-	HEATING, VENTILATING AND AIR CONDITIONING UNIT	⊗	SR	SUPPLY REGISTER
-	LF	LINEAR FEET	⊗	CD	1-WAY
-	MBH	1000 BRITISH THERMAL UNITS PER HOUR	⊗	CD	2-WAY
-	MER	MECHANICAL EQUIPMENT ROOM	⊗	CD	2-WAY
-	NC	NORMALLY CLOSED	⊗	CD	3-WAY
-	NIC	NOT IN CONTRACT	⊗	CD	4-WAY
-	NO	NORMALLY OPEN	⊗	*CD	RELOCATED CEILING DIFFUSER
-	OAI	OUTSIDE AIR INTAKE	⊗	LD	LINEAR DIFFUSER
-	RA	RETURN AIR	⊗	RR/RG	RETURN REGISTER/GRILLE
-	RF-	RETURN FAN	⊗	*RR/RG	RELOCATED RETURN REGISTER/GRILLE
-	RPM	REVOLUTIONS PER MINUTE	⊗	VAV	VAV BOX
-	RTU-	ROOFTOP UNIT	⊗	VAV	VAV BOX WITH REHEAT
-	SA	SUPPLY AIR	⊗	CV	CONSTANT VOLUME BOX
-	SP	STATIC PRESSURE	⊗	-	SUPPLY DUCT UP
-	TD	TRANSFER DUCT	⊗	-	SUPPLY DUCT DOWN
-	TSP	TOTAL STATIC PRESSURE	⊗	-	RETURN DUCT UP
-	TYP.	TYPICAL	⊗	-	RETURN DUCT DOWN
-	U.O.N.	UNLESS OTHERWISE NOTED	⊗	-	TRANSITION FROM SQUARE TO ROUND DUCT
-	WG	INCHES OF WATER GAUGE	⊗	-	TRANSITION
-	WMS	WIRE MESH SCREEN	⊗	-	DUCT DROP
			⊗	-	DUCT RISE
⊗	-	2-WAY VALVE	⊗	-	SQUARE VANED ELBOW
⊗	-	GATE VALVE	⊗	-	DUCT RISE
⊗	-	GLOBE VALVE	⊗	-	DUCT DROP
⊗	-	TEE DOWN	⊗	-	DUCT TRANSITION
⊗	-	ELBOW DOWN	⊗	AL	ACOUSTIC LINING
⊗	-	TEE UP	⊗	FD/AD	FIRE DAMPER W/ ACCESS DOOR
⊗	-	ELBOW UP	⊗	SD/AD	SMOKE DAMPER W/ ACCESS DOOR
⊗	-	CONCENTRIC REDUCER	⊗	CFSD	COMBINATION FIRE/SMOKE DAMPER W/ ACCESS DOOR
⊗	-	ECCENTRIC REDUCER	⊗	VD	VOLUME DAMPER
⊗	-	PIPE GUIDE	⊗	AL	ACOUSTIC LINING
⊗	-	PIPE ANCHOR	⊗	-	DUCT SIZE - 1ST FIGURE IS SIDE SHOWN
⊗	-	STRAINER	⊗	FC	FLEXIBLE CONNECTION
⊗	-	FLOW ARROW	⊗		
⊗	-	BALANCING VALVE	⊗		SECTION CALLOUT
⊗	-	MANUAL AIR VENT	⊗		
⊗	-	AUTO AIR VENT	⊗	-	CEILING DIFFUSER
⊗	-	ANGLE GLOBE VALVE	⊗	-	EXHAUST REGISTER
⊗	-	ANGLE GATE VALVE	⊗	-	RETURN REGISTER
⊗	-	BALL VALVE	⊗	-	SUPPLY REGISTER
⊗	-	CHECK VALVE	⊗	-	TOP REGISTER
⊗	-	UNION	⊗	-	VARIABLE AIR VOLUME BOX

**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.
- 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 CFMS INDICATED ON PLAN, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
- 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.
- LOCATE THERMOSTATS AND TEMPERATURE SENSORS 5'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE, CABINETS, ETC. & WITH ARCHITECTURAL DRAWINGS.
- COORDINATE DUCTWORK, GRILLE, DIFFUSER AND REGISTER LOCATIONS WITH LIGHTS, SMOKE DETECTORS, AND THE ARCHITECTURAL PLANS.
- 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.
- 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, SMOKE DETECTORS, DIFFUSERS, GRILLES, ETC.
- ALL WORK SHALL COMPLY WITH STATE BUILDING CODE, LOCAL BUILDING CODE, AND ENERGY CODE REQUIREMENTS. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- DURING CONSTRUCTION, ALL OPEN OR INCOMPLETE DUCTWORK SHALL BE CAPPED AIRTIGHT WITH 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.
- WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT. REMOVE ANY CONSTRUCTION DEBRIS. REPLACE ALL AIR FILTERS WITH NEW.
- THE OWNER'S PERMANENT HVAC EQUIPMENT (EXISTING / NEW) SHALL NOT BE USED BY ANY CONTRACTOR DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, VENTILATION, OR ANY OTHER PURPOSE. IF TEMPORARY HEATING, COOLING, VENTILATION, OR AIRFLOW IS REQUIRED AT ANY POINT DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING, COOLING, OR VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, AND POWER AT THEIR OWN EXPENSE.
- 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.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
- 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.
- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR THE CLEANING OF ALL EXISTING SUPPLY AIR DUCTWORK WITHIN THE PROJECT AREA.
- ALL HVAC CONTROL WIRING SHALL BE RUN IN EMT.
- ALL EQUIPMENT, MATERIALS, PRODUCTS, ETC., USED/INSTALLED ABOVE THE CEILING SHALL BE PLENUM RATED.
- DESIGN LOAD HAS BEEN CALCULATED IN ACCORDANCE WITH THE PROCEDURES DESCRIBED IN CHAPTERS 27 AND 28 OF THE ASHRAE HANDBOOK OF FUNDAMENTALS.

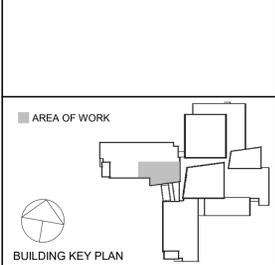
**CHESTER ACADEMY  
STEM LAB  
ALTERATIONS**  
CHESTER UNION FREE  
SCHOOL DISTRICT  
64 HAMBLETONIAN AVENUE  
CHESTER, NY 10918

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

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**44-02-01-02-0-009-006**

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 8 West 38th Street,  
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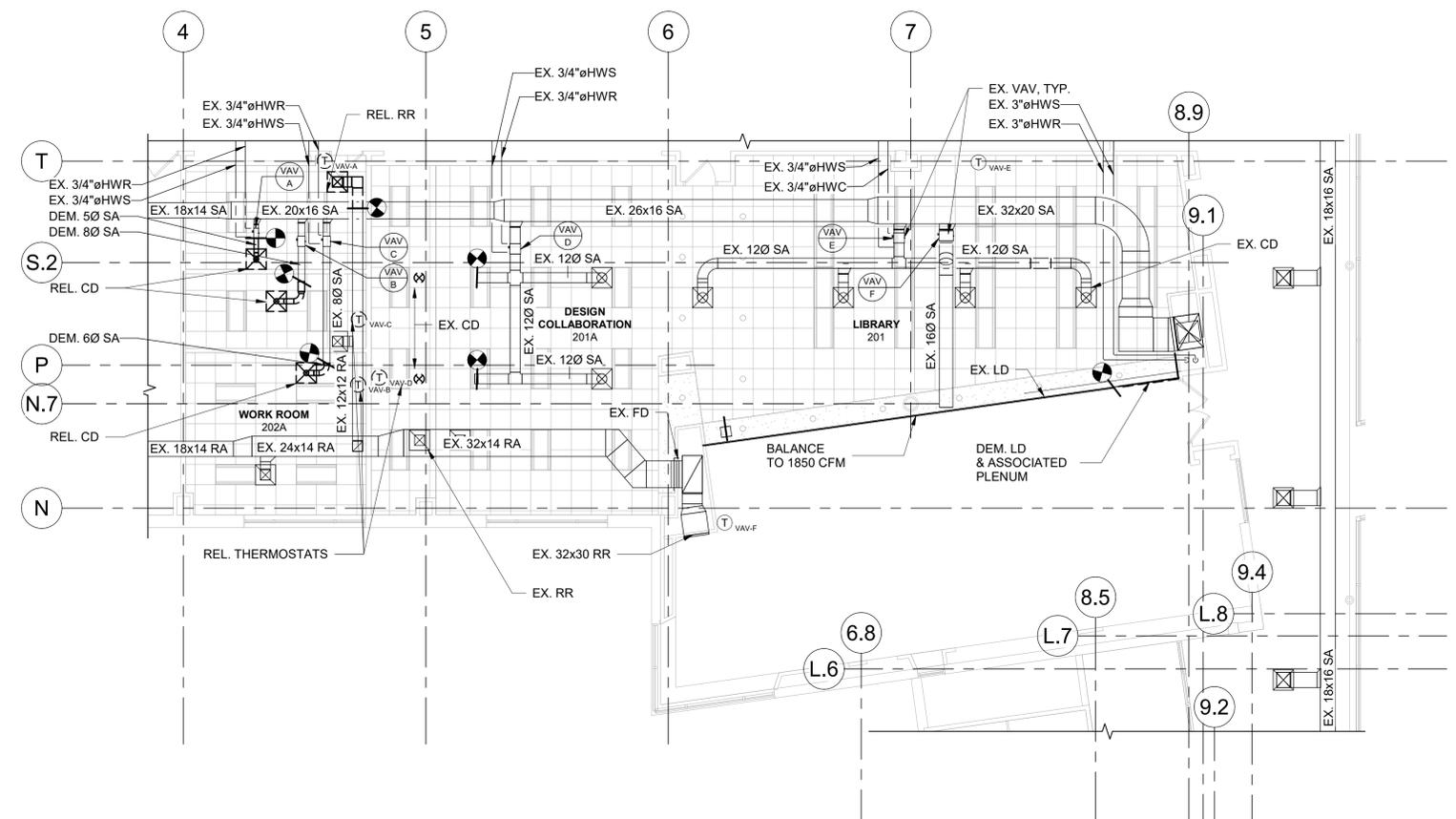
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Sheet Title	<b>MECHANICAL SYMBOLS AND GENERAL NOTES</b>	
Job No.	NKGD0245.00	Date
Scale	AS NOTED	Drawn / Checked
Author		Author Checker

Sheet Number  
**M001**

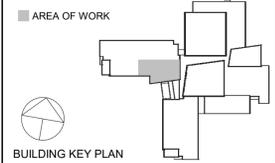
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Suite 501  
New York, NY 10018  
646.849.4110  
olace.com



**MECHANICAL SECOND FLOOR DEMOLITION PLAN**  
SCALE: 1/8" = 1'-0"  
NORTH

Notes:  
1. PROVIDE PRE-DEMOLISHED CFM READINGS



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**MECHANICAL  
DEMOLITION  
PLANS**

Job No.	NKGD0245.00	Date	05/25/2022
Scale	AS NOTED	Drawn / Checked	AD RJ

Sheet Number  
**M101**



### VARIABLE AIR VOLUME BOX SCHEDULE

DESIGNATION	VAV-1	VAV-2
INLET SIZE	8"Ø	6"Ø
MINIMUM CFM	100	65
AVAILABLE RANGE (CFM)	100 - 150	65 - 100
MAX. DESIGN CFM	150	100

NOTES:  
 1. VAV BOXES BASED ON TITUS MODEL DESV.  
 2. VAV BOXES SHALL BE SINGLE DUCT, COOLING ONLY OR COOLING/ELECTRIC HEATING AS INDICATED WITH DIGITAL ELECTRONIC PRESSURE INDEPENDENT CONTROLS.  
 3. BOXES SHALL BE PROVIDED WITH SHEETMETAL CONTROL ENCLOSURE BY TERMINAL MANUFACTURER.  
 4. AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL ALL VAV BOX CONTROLS  
 5. AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL FURNISH AND INSTALL DISCONNECT SWITCH AND TRANSFORMER FOR EACH BOX, BOX SHALL BE U.L. LISTED AND LABELED.  
 6. MAXIMUM RADIATED NC< 30, MAXIMUM DISCHARGE NC< 28.  
 7. BOXES SHALL HAVE 1" ACOUSTIC LINING.

### VENTILATION AIR SCHEDULE

HVAC UNIT	FLOOR	ROOM NUMBER	ROOM NAME	GROSS AREA (SQ.FT.)	NO. OF OCCUPANTS PER 1000 SQ.FT. (4)	NO. OF OCCUPANTS (4)	MIN. CODE OUTDOOR AIR REQUIREMENT (BASED ON CFM PER PERSON) (2)	MIN CODE OUTDOOR AIR REQUIREMENT (BASED ON SQ.FT.) (3)	DESIGN SUPPLY AIR (CFM)	DESIGN OUTDOOR AIR (CFM)
AHU-2	SECOND	201	LIBRARY	2050	10	21	105	250	2850	355
AHU-2	SECOND	201A	DESIGN COLLAB	830	35	30	300	100	800	400
AHU-2	SECOND	201B	COLLAB	145	50	8	40	10	100	50
AHU-2	SECOND	202	COLLAB	125	50	7	35	10	100	45
AHU-2	SECOND	202A	WORKROOM	570	35	20	200	70	850	270
AHU-2	SECOND	202B	COLLAB	130	50	7	35	10	150	45
AHU-2	THIRD	301	PRODUCTION LAB	605	35	22	220	75	600	295
AHU-2	THIRD	302	PRODUCTION CLASSROOM	585	35	21	210	70	600	280

**MINIMUM CODE REQUIREMENTS:**

1.) THE VENTILATION AIR SCHEDULE ABOVE MEETS OR EXCEEDS THE REQUIREMENTS FOR ALL SPACES BASED ON THE MECHANICAL CODE OF THE STATE OF NEW YORK, TABLE 403.3.

2.) THE MINIMUM OUTDOOR AIR REQUIREMENT PER PERSON:  
 AUDITORIUM = 15 CFM PER PERSON  
 CAFETERIA = 20 CFM PER PERSON  
 CLASSROOMS = 15 CFM PER PERSON  
 CONFERENCE ROOMS = 20 CFM PER PERSON  
 GYMNASIUM = 20 CFM PER PERSON  
 LIBRARY = 20 CFM PER PERSON  
 NURSING ROOM = 25 CFM PER PERSON  
 MUSIC CLASSROOM = 15 CFM PER PERSON  
 OFFICE SPACES = 20 CFM PER PERSON  
 RECEPTION AREA = 15 CFM PER PERSON  
 SCIENCE CLASSROOMS = 20 CFM PER PERSON  
 STAGE = 15 CFM PER PERSON  
 THEATER LOBBY = 20 CFM PER PERSON  
 TOILET ROOMS = 75 CFM PER WATER CLOSET OR URINAL

3.) THE MINIMUM OUTDOOR AIR REQUIREMENT PER/SF:  
 CORRIDORS = 0.1 CFM PER/SF  
 LOCKER ROOMS = 0.50 CFM PER/SF  
 STORAGE = 0.15 CFM PER/SF

4.) THE NUMBER OF OCCUPANTS IS BASED ON THE LOCAL SCHOOL DISTRICT ALLOWABLE CLASS SIZE, OR THE NUMBER OF PEOPLE PER SQ.FT. AS PER THE NY STATE MECHANICAL CODE, TABLE 403.3.

5.) IN ROOMS WITH A PEAK OCCUPANCY OF LESS THAN THREE HOURS DURATION, THE OUTDOOR AIR VENTILATION RATE IS DETERMINED ON THE BASIS OF AVERAGE OCCUPANCY OVER THE DURATION OF THE OPERATION OF THE SYSTEM, OR NO LESS THAN FIFTY PERCENT OF MAXIMUM OCCUPANCY, WHICHEVER IS GREATER, AS PER ASHRAE 62, SECTION 6.1.3.4.

6.) THE SAMPLE CALCULATION BELOW IS FOR THE JUNIOR AUDITORIUM:  
 No. OF OCCUPANTS = 111  
 AVERAGE OCCUPANCY = 56 [NOTE 5]  
 OUTDOOR AIR REQUIREMENT = 15 CFM PER OCCUPANT  
 MIN CODE OUTDOOR AIR REQUIREMENT = 56 x 15 = 840 CFM

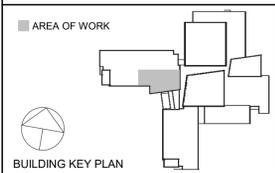
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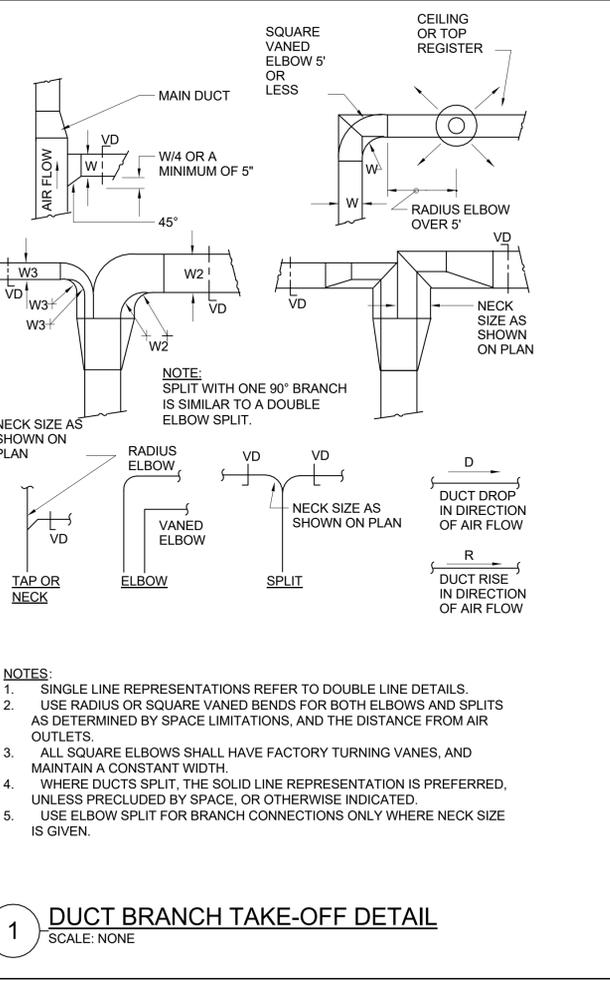
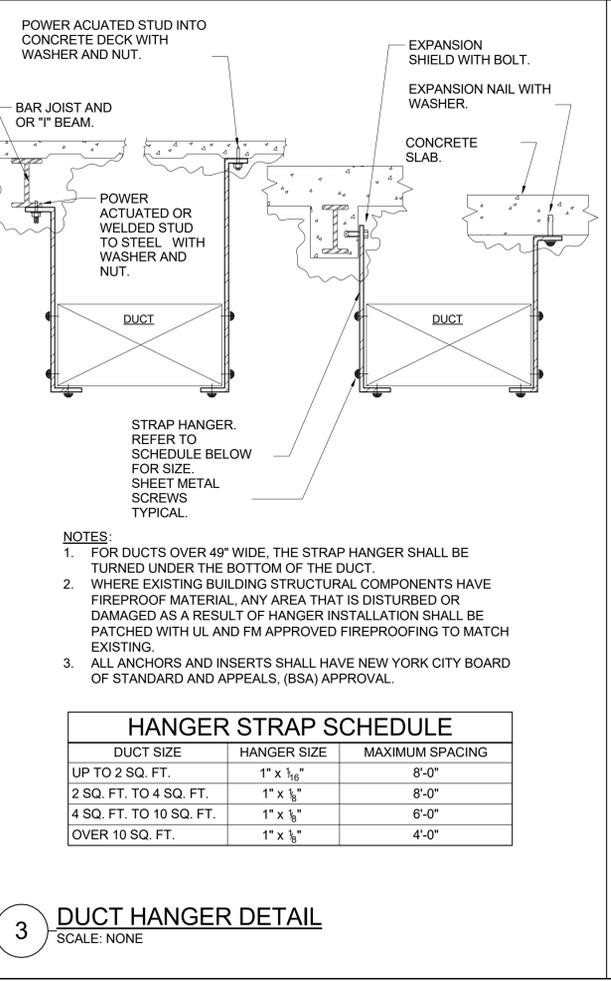
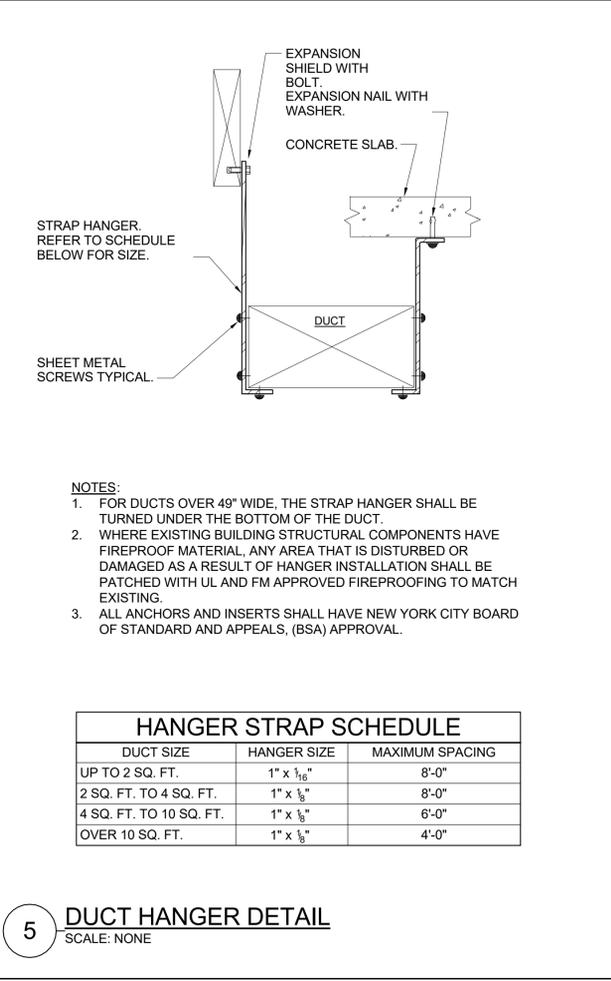
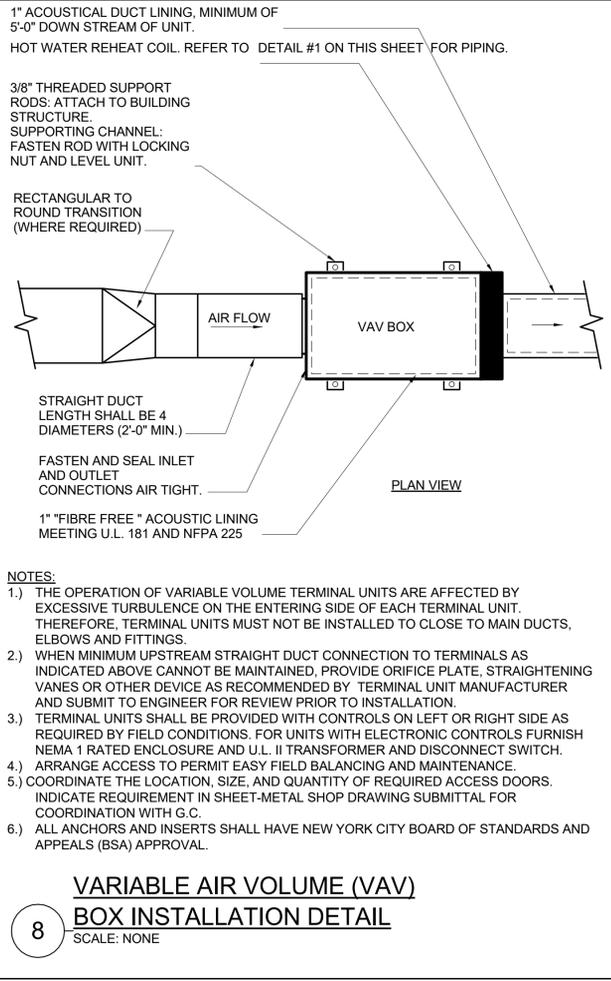
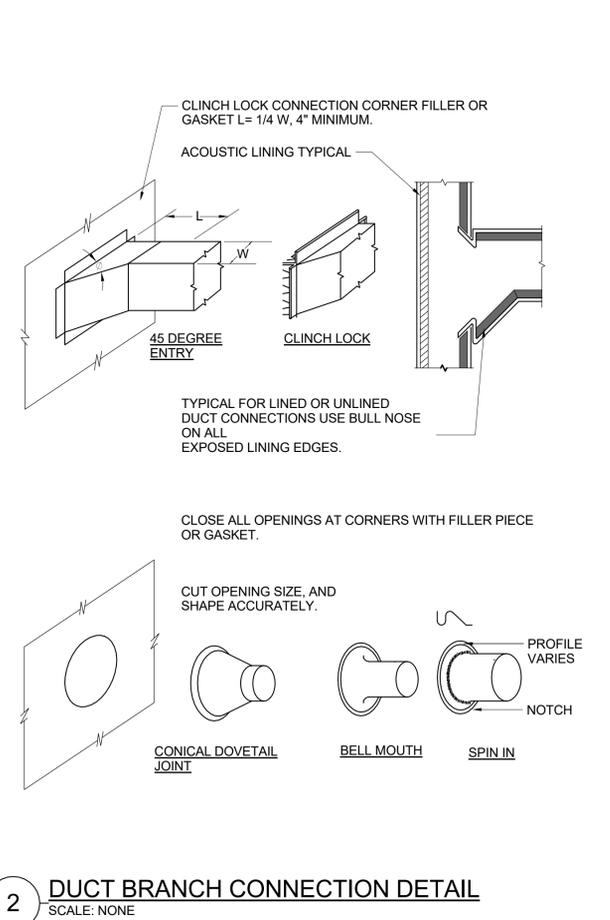
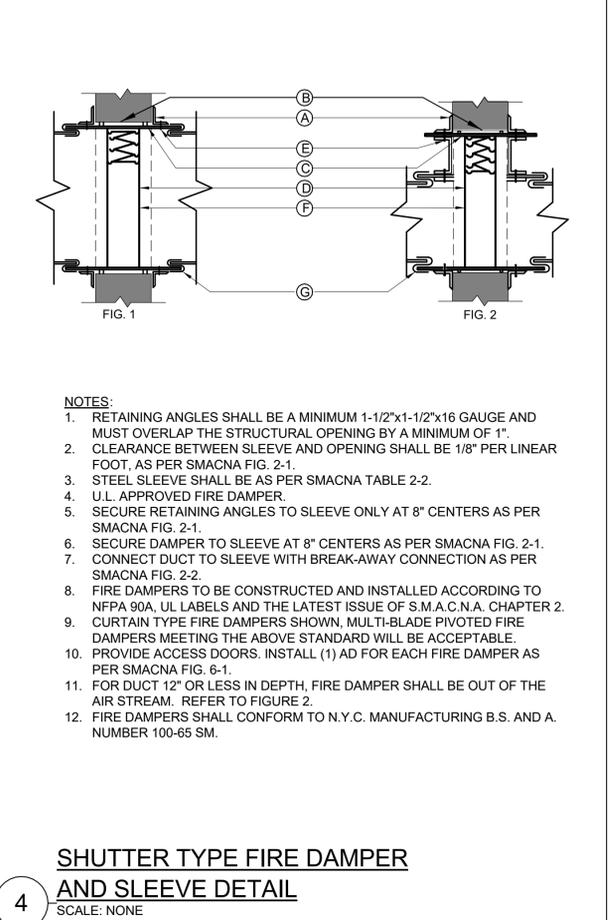
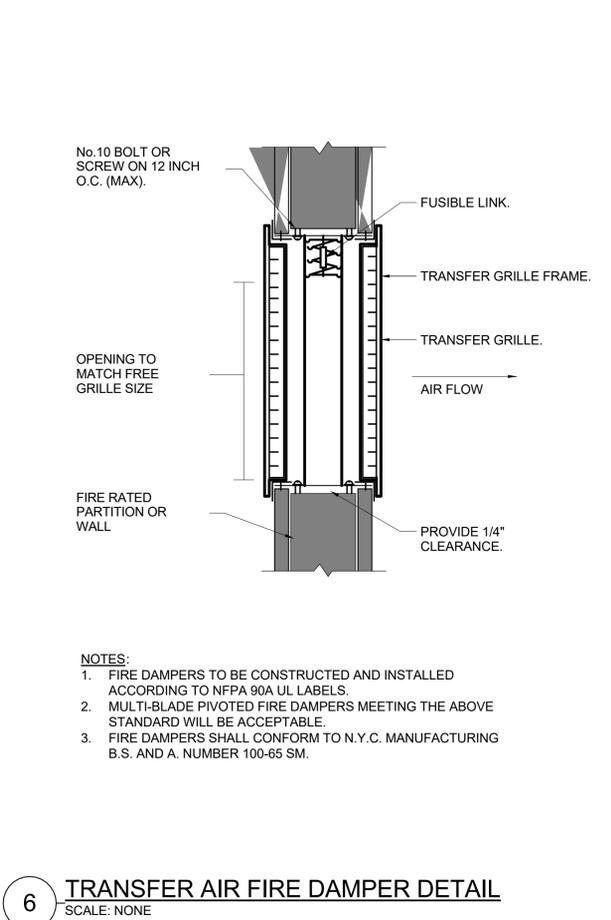
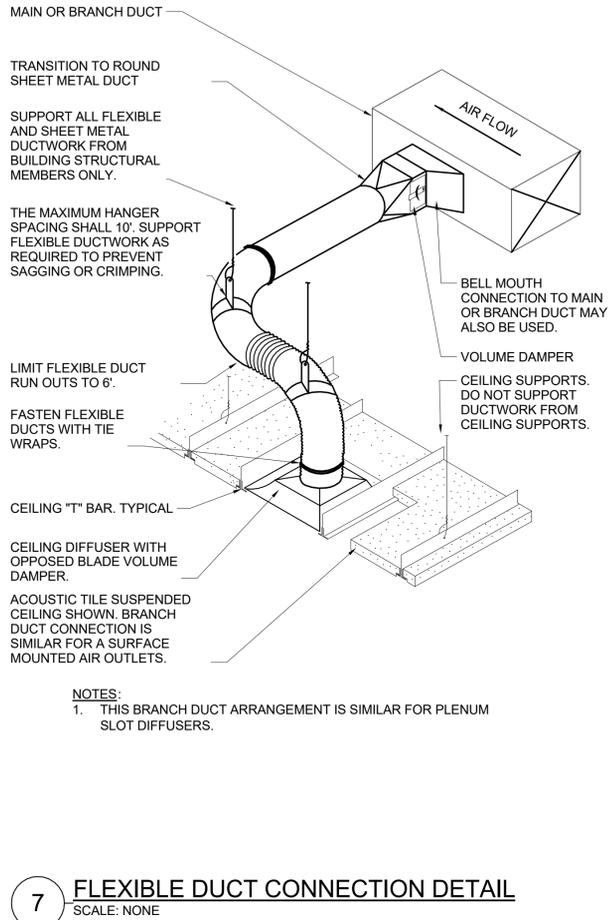
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## MECHANICAL SCHEDULES

Job No.	NKGD0245.00	Date	07/09/15
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Sheet Number

**M601**



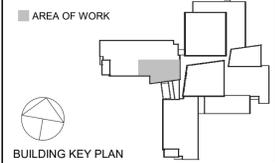
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**MECHANICAL DETAILS 1 OF 2**

Job No. NKGO0245.00 Date 05/25/2022  
Scale AS NOTED Drawn / Checked Author Checker

Sheet Number  
**M701**

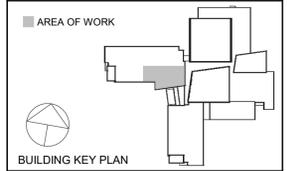
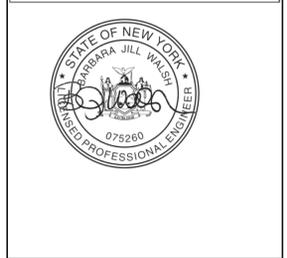
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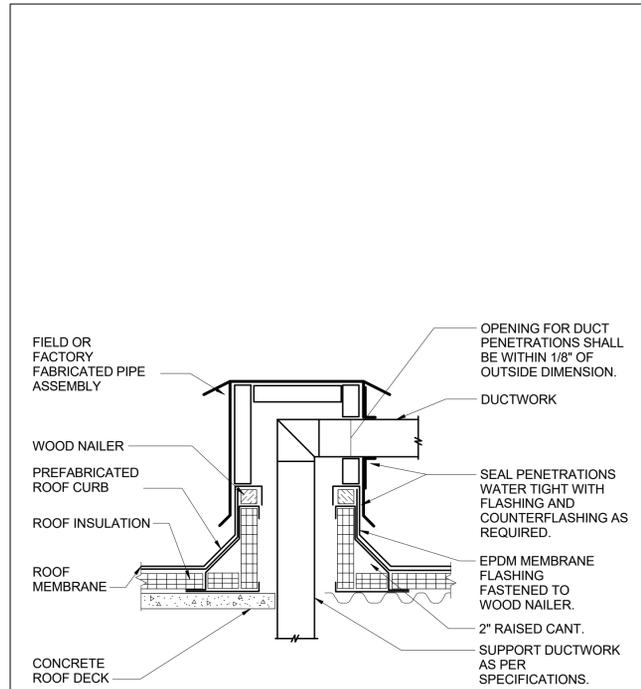
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**MECHANICAL  
DETAILS 2 OF 2**

Job No. NKG0245.00	Date 07/09/15
Scale AS NOTED	Drawn / Checked Author Checker
Sheet Number <b>M702</b>	



**9 ROOF DUCT BOX DETAIL**  
SCALE: NONE

**NOTES:**

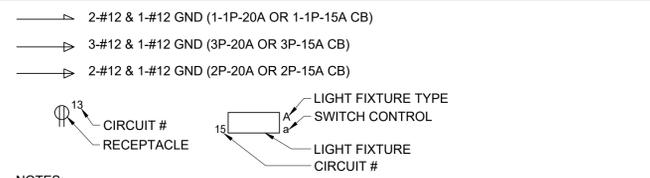
1. PREFABRICATED ROOF CURB AND BOX ASSEMBLY BASED ON CUSTOM CURB INC. MODEL CPBA-1 CUSTOM ROOF CURB BOX ASSEMBLY WITH 1.5 INCH THICK 3.5 POUND RIGID INSULATION, 18 GAGE GALVANIZED STEEL SHELL AND BASE PLATE, AND 0.050 ALUMINUM PIPE BOX.
2. CONTRACTOR SHALL PROVIDE ALL FLASHING, COUNTERFLASHING, AND ANY OTHER MATERIALS AND LABOR NECESSARY TO ENSURE A WATERTIGHT ROOF PENETRATION ENCLOSURE.
3. ALL WORK ON THE EXISTING ROOF MUST BE PERFORMED BY AN AUTHORIZED CONSULTANT/APPLICATOR FOR THE ROOFING SYSTEM TO MAINTAIN THE EXISTING WARRANTY.

**SYMBOLS AND ABBREVIATIONS**

SYMBOL	ABBREVIATION	DESCRIPTION	SYMBOL	ABBREVIATION	DESCRIPTION
	-	CONDUIT AND WIRING		-	PUSHBUTTON
	-	CONDUIT & WIRING TO BE REMOVED UON		-	ELECTRIC HAND DRYER
	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P		EPO	EMERGENCY POWER OFF SWITCH
	-	MULTI-POLE HOMERUN		CB	CIRCUIT BREAKER
	-	ELECTRICAL EQUIPMENT AS INDICATED		-	ENCLOSED CIRCUIT BREAKER
	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON		-	FUSED SWITCH
	-	ELECTRIC METER		GEN	GENERATOR
	-	JUNCTION BOX		-	GENERATOR RECEPTACLE
	-	FUSED DISCONNECT SWITCH		GND	GROUND AS PER LOCAL CODE
	-	UNFUSED DISCONNECT SWITCH		-	GROUND ROD
	-	COMBINATION MOTOR STARTER/FUSED DISC.		-	TRANSFER SWITCH
	-	MOTOR STARTER		XFMR	TRANSFORMER
	-	MOTOR		CT	CURRENT TRANSFORMER
	-	BATTERY WALL PACK EMERGENCY LIGHT FIXTURE		MD	MOTORIZED DAMPER
	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW		SD OR CFSD	SMOKE DAMPER
	-	SINGLE POLE SWITCH (X - INDICATES FIXTURE BEING CONTROLLED)		UH	UNIT HEATER
	-	THREE WAY SWITCH (X - INDICATES FIXTURE BEING CONTROLLED)		VAV	VARIABLE AIR VOLUME BOX
	-	ACUITY nLIGHT WALLPOD LOW VOLTAGE SWITCH WITH DIMMING: nPODMA DX WH (X - INDICATES FIXTURES BEING CONTROLLED)	A	AMPERE(S)	
	-	MOTOR RATED TOGGLE SWITCH	AC	AIR CONDITIONER	
	-	WALL MOUNTED OCCUPANCY SENSOR	ACC	AIR CONDITIONER CONDENSER	
	-	ACUITY nLIGHT OCCUPANCY SENSOR CEILING MTD	AFF	ABOVE FINISHED FLOOR	
	-	DUPLEX RECEPTACLE (U - INDICATES DUPLEX OUTLET WITH USB TYPE C PORTS, GFI - INDICATES GROUND FAULT INTERRUPTER)	AF	AMPERAGE OF FUSE	
	-	DOUBLE DUPLEX RECEPTACLE	AGL	ABOVE GRADE LEVEL	
	-	SPECIAL RECEPTACLE	AGL	ABOVE GRADE LEVEL	
	-	COMBINATION TELEPHONE/DATA OUTLET	AHU	AIR HANDLING UNIT	
	-	FLOOR MOUNTED DEVICE AS INDICATED ON PLANS	AL	ALUMINIUM	
	-	COMBINATION DATA & TV OUTLET	ARC	ARC FAULT INTERRUPTER	
	-	TV OUTLET	AS	AMPERAGE OF SWITCH	
	-	FIRE ALARM MANUAL PULL STATION	ATS	AUTOMATIC TRANSFER SWITCH	
	-	FIRE ALARM COMBINATION SPEAKER/VISUAL DEVICE (15/75 CD - STROBE)	AWG	AMERICAN WIRE GAUGE	
	-	FIRE ALARM CEILING MOUNTED SPEAKER	BCW	BARE COPPER WIRE	
	-	SMOKE DETECTOR. EL - ELEVATOR LOBBY; SH - SMOKE HATCH; SC - PLENUM RATED ABOVE CEILING	BLDG	BUILDING	
	-	DUCT MOUNTED SMOKE DETECTOR	C	CONDUIT	
	-	HEAT DETECTOR	CD	CANDELA	
	-	CARBON MONOXIDE DETECTOR	CKT	CIRCUIT	
	-	FIRE ALARM BELL	CLG	CEILING	
	-	FIRE ALARM TAMPER SWITCH	COL	COLUMN	
	-	FIRE ALARM WATER FLOW SWITCH	CU	COPPER	
	-	FIRE ALARM DOOR RELEASE	CUH	CABINET UNIT HEATER	
	-	FIRE ALARM ANNUNCIATOR PANEL	DEM.	DEMOLISH AND REMOVE	
	CM	FIRE ALARM CONTROL MODULE	DISC	DISCONNECT	
	MM	FIRE ALARM MONITORING MODULE	DIM	DIMMER	
	FACP	FIRE ALARM CONTROL PANEL	DWG	DRAWING	
	BPS	BOOSTER POWER SUPPLY	ELEV	ELEVATOR	
	DGP	DATA GATHERING PANEL	EMT	ELECTRICAL METALLIC TUBING	
	FSS	FIRE SUPPRESSION SYSTEM PANEL	EM	EMERGENCY	
	-	FIRE ALARM RELAY	EX.	EXISTING TO REMAIN	
	EOL	END OF LINE RESISTOR	F	FLOOR	
	-	WALL MOUNTED PUBLIC ADDRESS SPEAKER	FBO	FURNISHED BY OTHERS	
	-	PUBLIC ADDRESS TELEPHONE	GEN	GENERATOR	
	-	CEILING MOUNTED PUBLIC ADDRESS SPEAKER	GFI	GROUND FAULT INTERRUPTER	
	-	PUBLIC ADDRESS BELL	HP	HORSEPOWER	
			HVAC	HEATING VENTILATION AIR CONDITIONING	
			IG	ISOLATED GROUND	
			IMC	INTERMEDIATE METAL CONDUIT	
			KVA	KILO-VOLT-AMPERE	
			KW	KILO-WATT	
			MAX	MAXIMUM	
			MCB	MAIN CIRCUIT BREAKER	
			MIN	MINIMUM	

**NOTES:**  
 1. ALL SYMBOLS AND ABBREVIATIONS MAY NOT BE APPLICABLE FOR THIS PROJECT.  
 2. SEE LIGHTING FIXTURE SCHEDULE FOR LIGHT FIXTURE SYMBOLS.

**TYPICAL BRANCH CIRCUIT WIRING LEGEND**



**NOTES:**  
 1. EACH 120V AND 277V CIRCUIT SHALL HAVE A DEDICATED NEUTRAL CONDUCTOR. SHARED NEUTRAL HOMERUNS ARE NOT PERMITTED.  
 2. CONDUCTORS SHALL BE INCREASED FOR VOLTAGE DROP AND DERATING AS PER APPLICABLE ELECTRICAL CODE. FOR CIRCUITS THAT ARE BETWEEN 100' AND 150' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #10 AWG. FOR CIRCUITS THAT ARE BETWEEN 150' AND 225' IN LENGTH, PHASE AND NEUTRAL CONDUCTORS SHALL BE #8 AWG. FOR LENGTHS GREATER THAN 225' IN LENGTH, VERIFY CONDUCTOR SIZES WITH ENGINEER.

**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 WORK SHALL COMPLY WITH 2020 NEW YORK STATE BUILDING CODE, 2020 NEW YORK STATE ENERGY CONSERVATION CONSTRUCTION CODE AND 2017 NATIONAL ELECTRICAL CODE. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
- ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".
- ELECTRONIC FILES OF THE ELECTRICAL 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.
- WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
- INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.
- 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.
- EACH DUPLEX AND QUAD RECEPTACLE SHALL BE LABELED WITH THE CIRCUIT NUMBER WHICH IT SERVES. ALPHANUMERICS TO BE 1/8" HIGH AND BLACK ON CLEAR BACKGROUND. LABELS SHALL BE SELF ADHESIVE. IDENTIFY ASSOCIATED PANEL AND CIRCUIT NUMBER.
- 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.

**DEFINITION OF TERMS**

- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "CHESTER SCHOOL DISTRICT" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "KG&D ARCHITECTS, PC" IS INTENDED.
- WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
- "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.
- "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
- "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.
- "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
- THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:
  - "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.
  - "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.
  - "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.
  - "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.

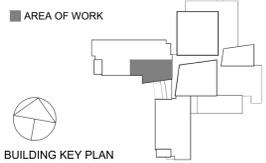
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**KG+D** listen imagine build  
**KG+D . ARCHITECTS PC**  
 285 MAIN STREET MOUNT KISCO, NEW YORK, 10549  
 P:914.666.5900 KGDARCHITECTS.COM

NY SED PROJECT CONTROL NO.  
**44-02-01-02-0-009-006**

**CONSTRUCTION DOCUMENTS**

**OLA Consulting Engineers**  
 50 Broadway,  
 Hawthorne, NY 10532  
 914.747.2800  
 8 West 38th Street,  
 Suite 501  
 New York, NY 10018  
 646.849.4110  
 olace.com



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**ELECTRICAL SYMBOLS, ABBREVIATIONS & NOTES**

Job No.	KGD0245.00	Date	05/18/2022
Scale	NONE	Drawn / Checked	JL / JF

Sheet Number  
**E001**

**CHESTER ACADEMY  
STEM LAB  
ALTERATIONS**

CHESTER UNION FREE  
SCHOOL DISTRICT

**KG+D** listen  
imagine  
build

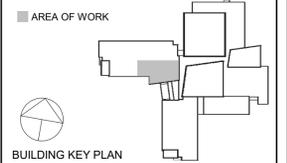
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3	11/16/2022	BID ADDENDUM #1
2	11/02/2022	ISSUE FOR BID
1	05/25/2022	CONSTRUCTION DOCUMENTS
No.	Date	Issue
Sheet Title		

**ELECTRICAL  
PLANS -  
DEMOLITION**

Job No.	NKGD0245.00	Date	05/18/2022
Scale	AS NOTED	Drawn / Checked	JL / JF
Sheet Number			

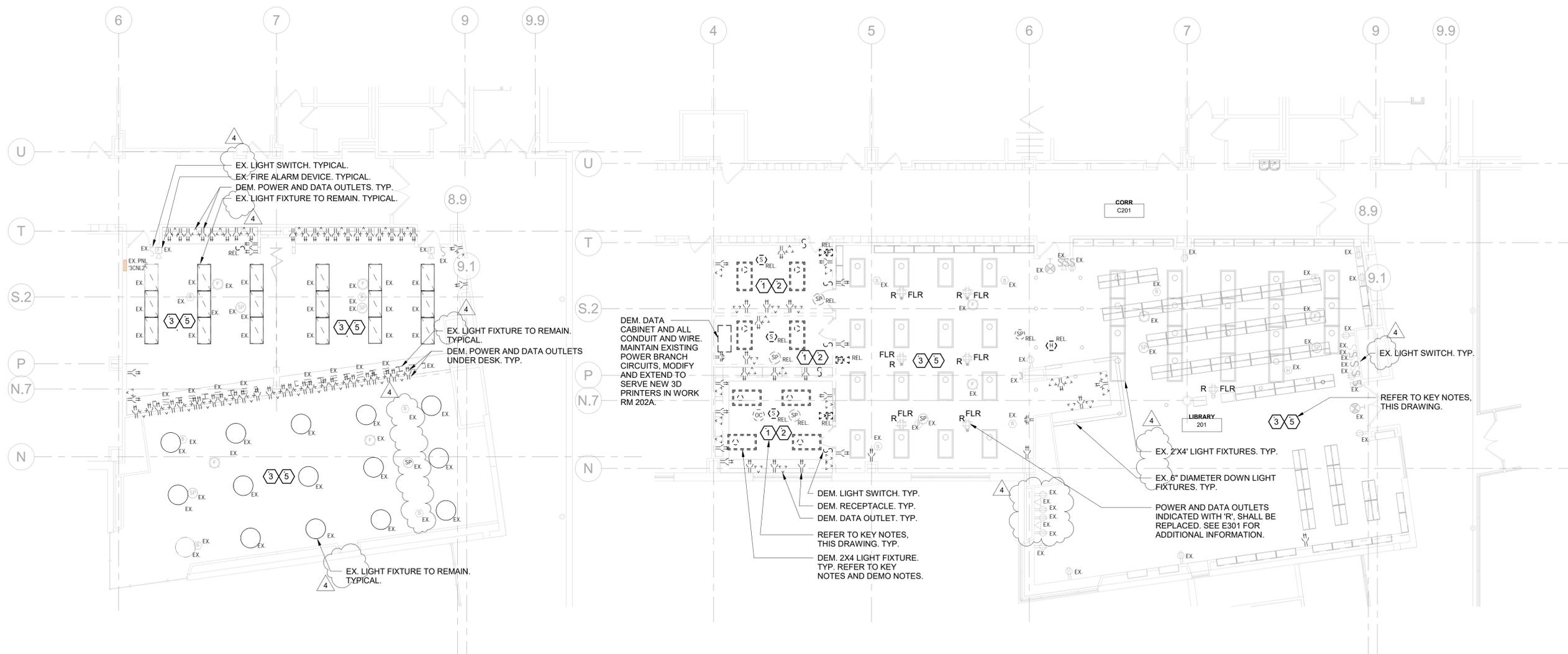
**E101**

**DEMOLITION KEY NOTES**

- ① DEMOLISH ALL ELECTRICAL FIXTURES AND DEVICES IN THIS ROOM INCLUDING LIGHT FIXTURES, LIGHT SWITCHES, OCCUPANCY SENSORS, RECEPTACLES, DATA/TELEPHONE OUTLETS AND CABLE OUTLETS. MAINTAIN WIRING FOR NEW FIXTURES AND DEVICES AS REQUIRED. TRACE CIRCUITRY AS NEEDED TO VERIFY EXACT CIRCUIT NUMBER AND QUANTITY OF DEVICES ON EACH CIRCUIT. NO MORE THAN 6 RECEPTACLES SHALL BE ON A SINGLE 20-AMP BRANCH CIRCUIT. IDENTIFY AND TAG EACH NEW DEVICE WITH ASSOCIATED PANEL NAME AND CIRCUIT NUMBER PER SPECIFICATIONS. SEE E-301 FOR ADDITIONAL INFORMATION.
- ② REMOVE, STORE, AND REINSTALL FIRE-ALARM DEVICES AND PUBLIC ADDRESS DEVICES IN THIS ROOM, INCLUDING SMOKE DETECTOR(S), SPEAKER STROBE(S) AND PUBLIC ADDRESS SPEAKERS IN ORDER TO ACCOMMODATE DEMOLITION AND INSTALLATION OF CEILING AND WALLS. EXTEND AND/OR MODIFY WIRING AS NEEDED TO REINSTALL DEVICES.
- ③ ALL LIGHT FIXTURES AND SWITCHES IN THIS ROOM SHALL REMAIN.
- ④ NOT USED.
- ⑤ ALL EXISTING FIRE-ALARM DEVICES AND PUBLIC ADDRESS SPEAKERS IN THIS ROOM/AREA SHALL REMAIN U.O.N..

**DEMOLITION NOTES**

1. ALL EQUIPMENT SHALL BE DISCONNECTED AND ALL ASSOCIATED WIRE AND CONDUIT SHALL BE 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.
3. CIRCUIT BREAKER, CONDUIT AND CONDUCTOR SIZES INDICATED SHALL BE FIELD VERIFIED PRIOR TO BID.
4. ALL EXISTING ELECTRICAL EQUIPMENT NO LONGER IN USE, SUCH AS DISCONNECT SWITCHES, MOTOR CONTROLLERS, 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.
7. REMOVE, STORE, AND REINSTALL CEILING TILES AND DEVICES AS NEEDED TO ACCOMMODATE ELECTRICAL WORK. REPLACE CEILING TILES WHICH BECOME DAMAGED DURING THE COURSE OF WORK.
8. PATCH AND REPAIR ALL OPENINGS AFTER REMOVAL OF DEVICES AND EQUIPMENT. SEE NOTES ON DRAWING E001 FOR ADDITIONAL INFORMATION.



**3RD FLOOR DEMO PLAN**  
2 SCALE: 1/8" = 1'-0"

**2ND FLOOR - DEMO PLAN**  
1 SCALE: 1/8" = 1'-0"

**CHESTER ACADEMY  
STEM LAB  
ALTERATIONS**  
CHESTER UNION FREE  
SCHOOL DISTRICT

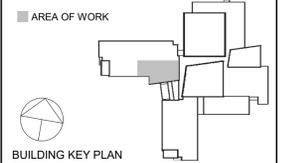
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NY SED PROJECT CONTROL NO.  
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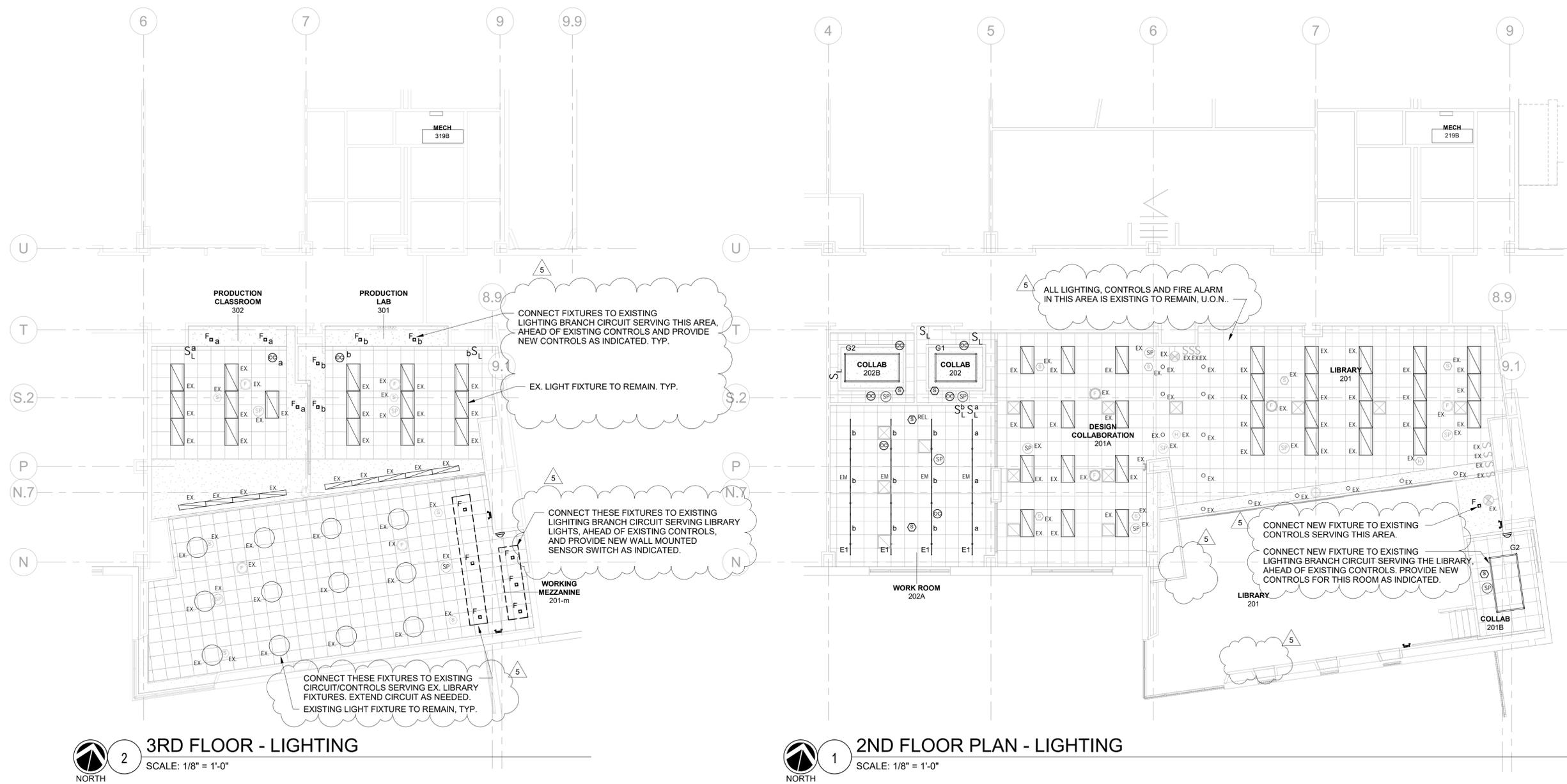
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3	11/02/2022	ISSUE FOR BID
2	06/16/2022	NYSED ADDENDUM #1
1	05/25/2022	CONSTRUCTION DOCUMENTS

No. Date Issue

**ELECTRICAL  
PLANS -  
LIGHTING**

Job No. NKGD0245.00 Date 05/18/2022  
Scale AS NOTED Drawn / Checked JL / JF  
Sheet Number **E201**

- NOTES**
- LIGHTS INDICATED AS EMERGENCY (EM) SHALL CONTAIN INTEGRAL OR REMOTE BATTERY PACK AND EMERGENCY TEST SWITCH. THESE FIXTURES SHALL BE INSTALLED SO THAT UNDER NORMAL CONDITIONS THEY ARE CONTROLLED WITH ADJACENT AREA/ROOM LIGHTS, AND IN THE EVENT OF A POWER OUTTAGE, THEY AUTOMATICALLY ILLUMINATE FOR 90 MINUTES. REFER TO LIGHTING FIXTURE SCHEDULE ON DRAWING E601 FOR ADDITIONAL INFORMATION. PROVIDE CONSTANT HOT SENSING CIRCUIT TO MONITOR UTILITY VOLTAGE. PROVIDE UL924 POWER PACKS COMPATIBLE WITH LOCAL LOW VOLTAGE CONTROL SYSTEM.
  - REMOVE, STORE, AND REINSTALL CEILING TILES AND EXISTING CEILING MOUNTED DEVICES AS NEEDED TO ACCOMMODATE ELECTRICAL WORK. REPLACE CEILING TILES WHICH BECOME DAMAGED DURING THE COURSE OF WORK.
  - PROVIDE CUTTING, PATCHING AND PAINTING AS NEEDED TO FACILITATE DEMOLITION AND INSTALLATION OF ELECTRICAL WORK TO MATCH SURROUNDING AREA.
  - PROVIDE 1P-20A CIRCUIT BREAKER IN ASSOCIATED PANEL FOR NEW LIGHTING CIRCUITS AS INDICATED.
  - LIGHT FIXTURES IN WORK ROOM 202A, COLLAB 202 AND COLLAB 202B SHALL BE CONNECTED TO EXISTING CIRCUIT. EXTEND/MODIFY EXISTING CIRCUIT AS NEEDED. CONFIRM VOLTAGE PRIOR TO ORDERING AND INSTALLING COMPONENTS. REFER TO DRAWING E-101 FOR ADDITIONAL INFORMATION.
  - LIGHTING CONTROL COMPONENTS ARE SHOWN FOR GENERAL DESIGN INTENT. ALL COMPONENTS AND WIRING ARE NOT SHOWN. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL NECESSARY COMPONENTS (SWITCHES, SENSORS, POWER PACKS), WIRING (LINE, LOW VOLTAGE, DIMMING) AND PROGRAMMING FOR A FULLY OPERATIONAL SYSTEM. COORDINATE WITH BUILDING MANAGEMENT FOR PROGRAMMING FUNCTIONALITY.
  - THE CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE LIGHTING CONTROLS WITH LIGHT FIXTURES. ALL LIGHT FIXTURES AND LIGHTING CONTROL SUBMITTALS SHALL BE SUBMITTED AT THE SAME TIME FOR APPROVAL.
  - PROVIDE CEILING MOUNTED FIRE-ALARM DEVICES (SMOKED DETECTORS, SPEAKERS) AND PUBLIC ADDRESS SPEAKERS AS INDICATED. CONNECT TO EXISTING SYSTEMS. EXTEND WIRING AS REQUIRED. PROVIDE ALL PROGRAMMING.



**2 3RD FLOOR - LIGHTING**  
SCALE: 1/8" = 1'-0"  
NORTH

**1 2ND FLOOR PLAN - LIGHTING**  
SCALE: 1/8" = 1'-0"  
NORTH

**CHESTER ACADEMY  
STEM LAB  
ALTERATIONS**  
CHESTER UNION FREE  
SCHOOL DISTRICT

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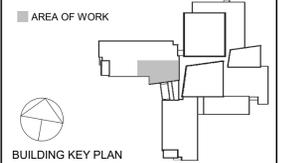
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NY SED PROJECT CONTROL NO.

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**CONSTRUCTION  
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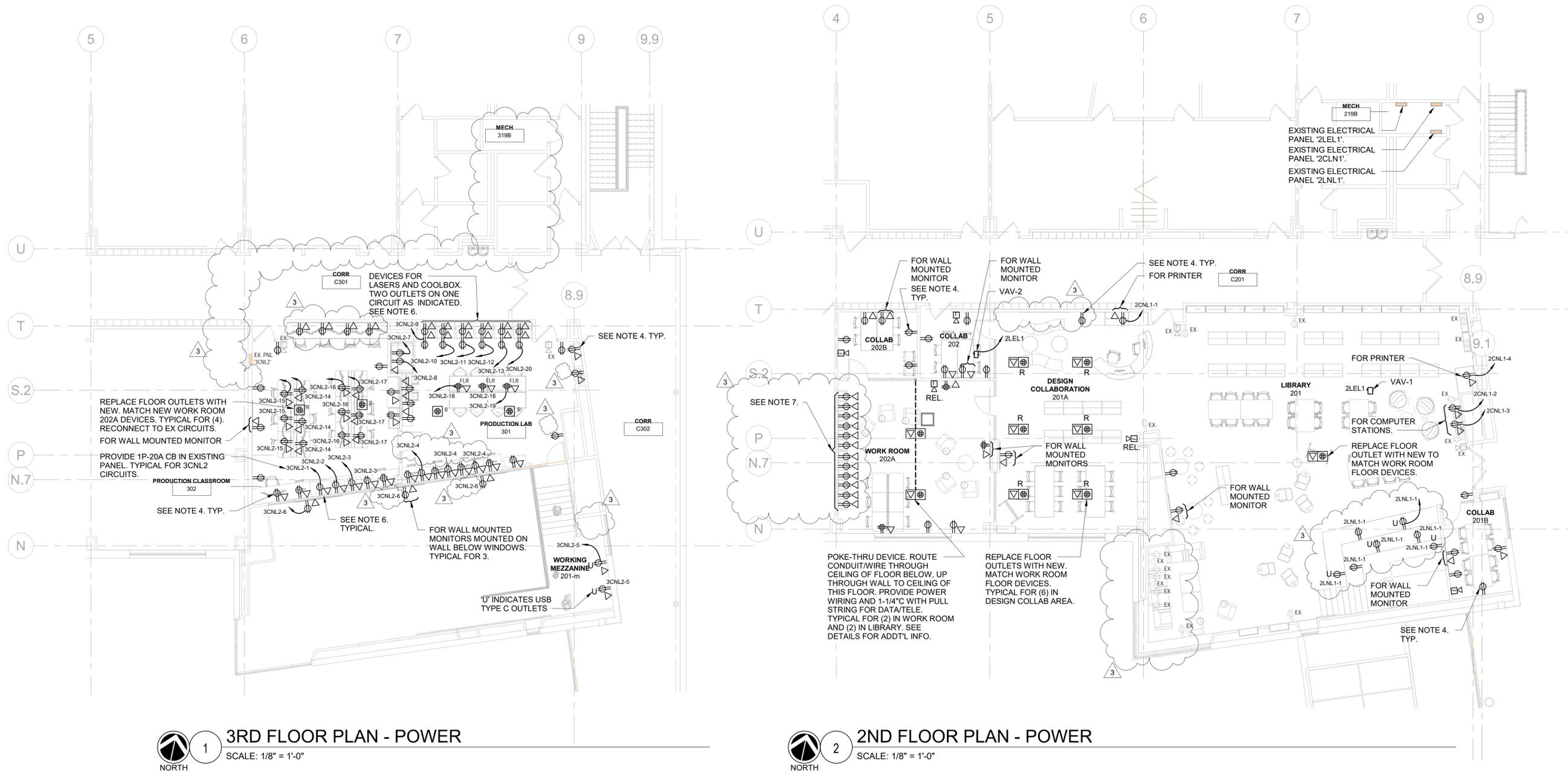
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Sheet Title

**ELECTRICAL  
PLANS - POWER**

Job No.	NKGD0245.00	Date	05/18/2022
Scale	AS NOTED	Drawn / Checked	JL / JF
Sheet Number	E301		

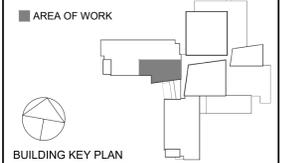
- NOTES**
1. NOT USED.
  2. NOT USED.
  3. RECEPTACLES DENOTED WITH THE LETTER 'R' SHALL BE REPLACED. REPLACE ADJACENT DATA OUTLETS AS APPLICABLE. PROVIDE NEW STAINLESS STEEL FACE PLATES. MAINTAIN CONTINUITY OF CIRCUIT AND EXTEND/MODIFY EXISTING CIRCUIT AS NEEDED IN ORDER TO ACCOMMODATE DEVICES BEING DEMOLISHED.
  4. ALL NEW RECEPTACLES INDICATED WITHOUT A CIRCUIT NUMBER SHALL BE CONNECTED TO ADJACENT RECEPTACLE CIRCUIT AND/OR RECEPTACLE CIRCUITS MADE AVAILABLE DURING DEMOLITION. EXTEND WIRING AS NEEDED. TRACE EXISTING CIRCUIT TO VERIFY CIRCUIT NUMBER AND QUANTITY OF RECEPTACLES ON THE ASSOCIATED CIRCUIT. NO MORE THAN 6 RECEPTACLES SHALL BE CONNECTED TO A 20-AMP BRANCH CIRCUIT. SPECIAL DEVICES SUCH AS PRINTERS SHALL BE ON A DEDICATED CIRCUIT U.O.N.. PRODUCTION LAB AND CLASSROOM RECEPTACLES INDICATED WITH CIRCUIT NUMBERS SHALL HAVE NO OTHER DEVICES ON THE RESPECTIVE CIRCUIT.
  5. ALL NEW RECEPTACLES SHALL BE GRAY AND SHALL BE PROVIDED WITH STAINLESS STEEL COVER PLATES TO MATCH EXISTING.
  6. REFER TO ARCHITECTURAL DRAWINGS FOR ADDITIONAL INFORMATION INCLUDING EXACT DEVICE LOCATIONS, MOUNTING HEIGHTS, ELEVATIONS AND LAB EQUIPMENT LAYOUTS/SCHEDULES. UPDATE ALL PANEL DIRECTORIES FOR ALL ELECTRICAL PANELS TO INCLUDE THE CORRESPONDING ROOM NAME/NUMBER AND SPECIFIC DEVICE/EQUIPMENT WHICH IT SERVES.
  7. PROVIDE RECEPTACLES AND DATA OUTLETS FOR (12) 3D PRINTERS IN WORK ROOM 202A AS INDICATED. EVERY TWO (2) PRINTERS/DUPLEX RECEPTACLES SHALL SHARE ONE BRANCH CIRCUIT. CONNECT TO EXISTING BRANCH CIRCUITS SERVING DATA CABINET BEING DEMOLISHED, EXTEND AND MODIFY CIRCUIT AS REQUIRED. REFER TO DEMOLITION PLANS.
  8. CONNECT NEW FIRE ALARM DEVICES TO EXISTING SYSTEM. EXTEND WIRING AS NEEDED AND PROVIDE PROGRAMMING.



**1 3RD FLOOR PLAN - POWER**  
SCALE: 1/8" = 1'-0"

**2 2ND FLOOR PLAN - POWER**  
SCALE: 1/8" = 1'-0"

**CONSTRUCTION  
DOCUMENTS**



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**ELECTRICAL  
SCHEDULES**

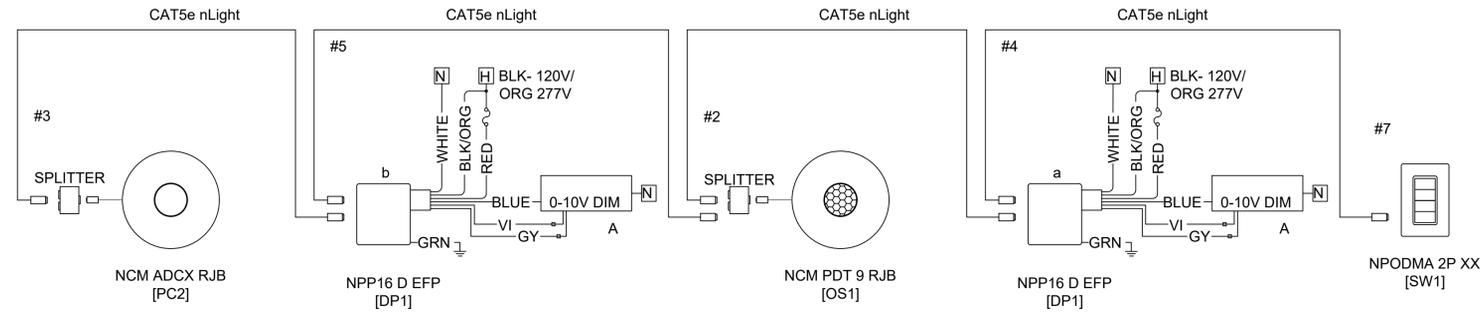
Job No.	Date
KG0245.00	05/18/2022
Scale	Drawn / Checked
NONE	JL / JF

Sheet Number  
**E601**

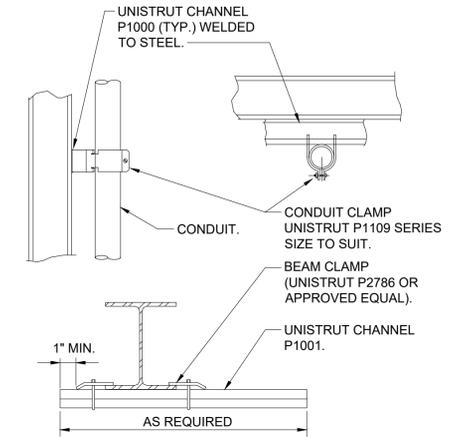
LIGHTING FIXTURE SCHEDULE							
FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	MOUNTING	LUMENS	REMARKS
E1	DELRAY	SLTR4-6-H0-W30-D-SLRDTB SLTM4-8-H0-W30-D-SLRDTB-EM SLTL4-6-H0-W30-D-SLRDTB	LED 3000K 140[W]	120-277	PENDANT	14432	ADJUSTABLE LED SINGLE LAMP PENDANT. 20FT. 6FT RIGHT, 8FT MIDDLE AND 6FT LEFT. CONNECT TOGETHER WITH AN STJR PIECE BETWEEN EACH
F	PRECISE LED	NVTN-3-SH-23W- 30K-90C-3G-60D-ST1-AT-SO WITH NVTN-3-TRIM -BS-WH-ADPT-SQ-UNV-3G	LED 3000K 23[W]	120-277	RECESSED	2120	NOVATION LED 3 INCH SHALLOW DOWN. MOUNTED AT GYP AND ACT CEILINGS.
G1	LF ILLUMINATION	(2)GSA-05L-9030-LN-048-SS (2)GSA-05L-9030-LN-072-SS WITH (4)GSA-2WY-SS	LED 3000K 5[W/ft]	120-277	PENDANT	400/FT	4FT X 6FT LAYOUT. LIGHTING TO INCLUDE ALL APPROPRIATE ACCESSORIES NEEDED FOR INSTALLATION.
G2	LF ILLUMINATION	(2)GSA-05L-9030-LN-048-SS (2)GSA-05L-9030-LN-096-SS WITH (4)GSA-2WY-SS	LED 3000K 5[W/ft]	120-277	PENDANT	400/FT	4FT X 8FT LAYOUT. LIGHTING TO INCLUDE ALL APPROPRIATE ACCESSORIES NEEDED FOR INSTALLATION.
	LITHONIA LIGHTING	ELM2-LED	LED 3[W]	120-277	SURFACE		DUAL HEAD EMERGENCY BATTERY WALL PACK LIGHT. MATCH FINISHES OF EXISTING EMERGENCY LIGHTS.

**NOTES:**

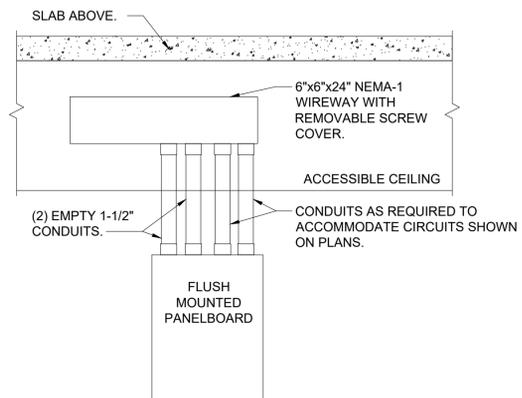
- VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
- LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK-UP BATTERY AND SHALL CONTAIN A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH EM LIGHT FIXTURE 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. PROVIDE CONSTANT HOT SENSING CIRCUIT FOR UTILITY POWER SENSING AND CONNECT TO ASSOCIATED LOCAL LIGHTING CIRCUIT, AHEAD OF ALL CONTROLS.
- EMERGENCY WALL PACKS SHALL BE CONNECTED TO THE LOCAL LIGHTING CIRCUIT.
- PROVIDE DRIVERS REQUIRED TO OPERATE LIGHT FIXTURES.
- 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.



**6 TYPICAL LIGHTING CONTROL SCHEMATIC DIAGRAM**  
SCALE: NONE

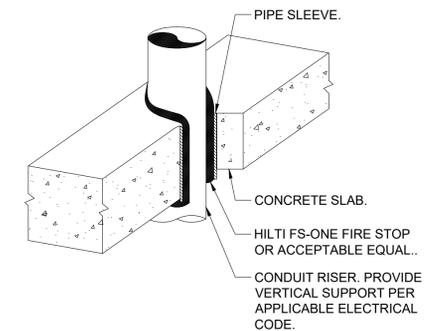


**3 CONDUIT SUPPORTED FROM STRUCTURAL STEEL DETAIL**  
SCALE: NONE

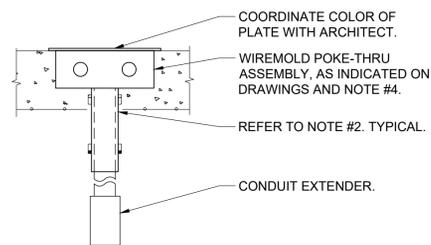


- NOTES:**
1. IN ADDITION TO CONDUITS FOR CIRCUITS INSTALLED AS PER PLANS, INSTALL ADDITIONAL EMPTY CONDUITS AS INDICATED ABOVE FOR FUTURE CIRCUITS.
  2. CONDUITS BETWEEN PANELBOARD AND WIREWAY TO BE CONCEALED WITHIN PARTITION.

**8 FLUSH MOUNTED PANELBOARD DETAIL**  
SCALE: NONE

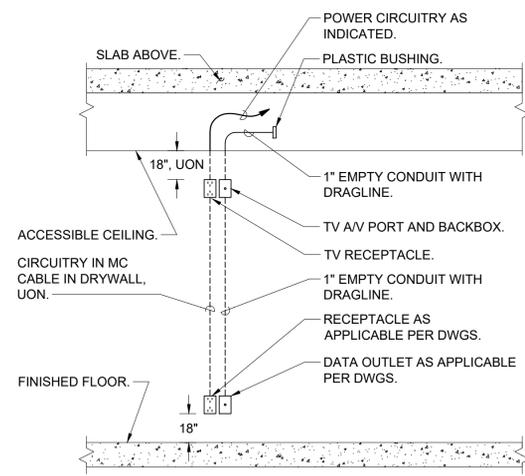


**2 TYPICAL VERTICAL CONDUIT PENETRATION DETAIL**  
SCALE: NONE



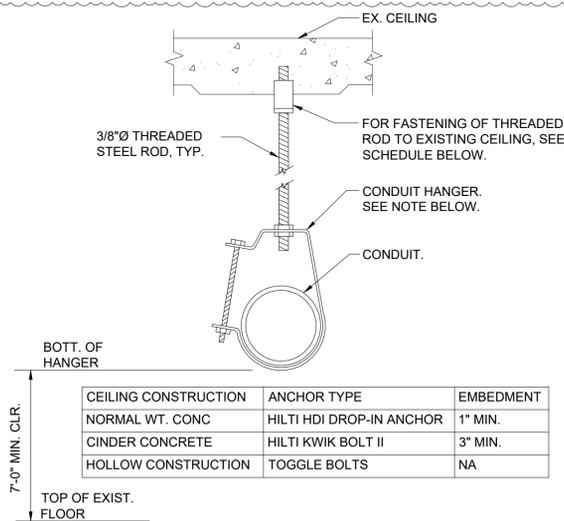
- NOTES:**
1. FIRE STOP SLEEVE ON UPPER AND UNDERSIDE OF FLOOR SLAB WITH 3 HOUR RATED FIRE STOP AS MANUFACTURED BY SPECIFIED TECHNOLOGIES INC. (STI) SPEC SEAL SSS INTUMESCENT SEALANT OR APPROVED EQUAL.
  2. POKE-THRUS SHALL BE MIN. 2'-0" APART FROM EACH OTHER TO MAINTAIN FIRE RATING OF FLOOR.
  3. INSTALLATION SHALL BE IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.
  - 4.) POKE THRU MODEL NUMBERS:
    - A. POKE THRU COMBINATION POWER/DATA/TELEPHONE WITH (2) DUPLEX 20A RECEPTACLES & (4) CATEGORY 6 INSERTS WIREMOLD MODEL #RC4ATC OR APPROVAL EQUAL.

**9 POKE-THRU DEVICE INSTALLATION DETAIL**  
SCALE: NONE



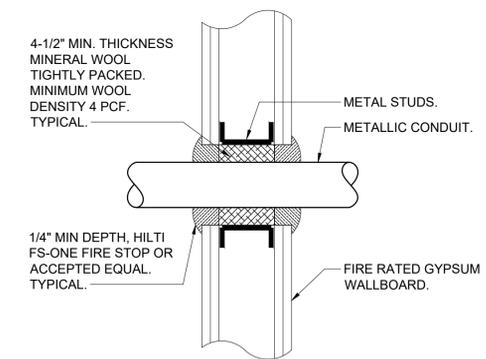
- NOTES:**
1. COORDINATE EXACT HEIGHTS AND LOCATIONS OF RECEPTACLES AND BOXES WITH ARCHITECT.

**7 TYPICAL ELEVATION DETAIL FOR MONITOR POWER/AV/DATA OUTLET LOCATION**  
SCALE: NONE

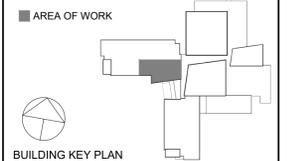


CEILING CONSTRUCTION	ANCHOR TYPE	EMBEDMENT
NORMAL WT. CONC	HILTI HDI DROP-IN ANCHOR	1" MIN.
CINDER CONCRETE	HILTI KWIK BOLT II	3" MIN.
HOLLOW CONSTRUCTION	TOGGLE BOLTS	NA

**4 SINGLE CONDUIT HANGER DETAIL**  
SCALE: NONE



**1 TYPICAL FIRE RATED GYPSUM WALL CONDUIT PENETRATION DETAIL**  
SCALE: NONE



**AREA OF WORK**

**BUILDING KEY PLAN**

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Professional Seal

No.	Date	Issue
3	1/18/2023	REISSUE FOR BID
2	11/02/2022	ISSUE FOR BID
1	05/25/2022	CONSTRUCTION DOCUMENTS

Sheet Title

**ELECTRICAL DETAILS**

Job No.	Date
KG0245.00	05/18/2022

Scale	Drawn / Checked
AS NOTED	JL / JF

Sheet Number  
**E701**