

PLUMBING ABBREVIATIONS			
A/E	ARCHITECT / ENGINEER	I/W	INDIRECT WASTE
AD	AREA DRAIN	IWH	INSTANTANEOUS WATER HEATER
AD	ACCESS DOOR	KW	KILOWATT
ADA	AMERICANS WITH DISABILITIES ACT	LAV	LAVATORY
AFF	ABOVE FINISH FLOOR	M	METER
AFG	ABOVE FINISHED GRADE	MC	MECHANICAL CONTRACTOR
AHJ	AUTHORITY HAVING JURISDICTION	MBH	1000 BTUH
ANSI	AMERICAN NATIONAL STANDARDS INSTITUTE	MH	MANHOLE
AP	ACCESS PANEL	NC	NORMALLY CLOSED
ASHRAE	AMERICAN SOCIETY OF HEATING, REFRIGERATION & AIR CONDITIONING ENGINEERS	NG	NATURAL GAS
ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS	NIC	NOT IN CONTRACT
ASPE	AMERICAN SOCIETY OF PLUMBING ENGINEERS	NOM	NOMINAL
		NPW	NON POTABLE WATER
AWWA	AMERICAN WATERWORKS ASSOCIATION	NTS	NOT TO SCALE
BFG	BELOW FINISHED GRADE	O2	OXYGEN
BHP	BREAK HORSEPOWER	OD	OUTSIDE DIAMETER
BOR	BASE OF RISER	OSHA	OCCUPATIONAL SAFETY AND HEALTH ADMINISTRATION
BTU	BRITISH THERMAL UNIT	P	PUMP
BTUH	BRITISH THERMAL UNIT PER HOUR	PC	PLUMBING CONTRACTOR
C	CELSIUS	PD	PUMP DISCHARGE
CA	COMBUSTION AIR	PDI	PLUMBING AND DRAINAGE INSTITUTE
CA	COMPRESSED AIR	PF	PLUMBING FIXTURE
CGA	COMPRESSED GAS ASSOCIATION	PG	PRESSURE GAGE
CI	CAST IRON	PPM	PARTS PER MILLION
CO	CLEANOUT	PRS	PRESSURE REDUCING STATION
CO2	CARBON DIOXIDE	PRV	PRESSURE REDUCING VALVE
COND	CONDENSATE	PSI	POUNDS PER SQUARE INCH
CP	CIRCULATING PUMP	PSIA	POUNDS PER SQUARE INCH ATMOSPHERE
CPVC	CHLORINATED POLYVINYL CHLORIDE	PSIG	POUNDS PER SQUARE INCH GAUGE
CU	COPPER	PVC	POLYVINYL CHLORIDE
CW	COLD WATER (DOMESTIC)	RD	ROOF DRAIN
D	DRAIN	RL	RAIN LEADER
DIA	DIAMETER	RO	REVERSE OSMOSIS WATER
DFU	DRAINAGE FIXTURE UNIT	RPZ	REDUCED PRESSURE ZONE BACKFLOW PREVENTER
DN	DOWN	SAN	SANITARY SEWER
DPCO	DECK PLATE CLEANOUT	SMACNA	SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION
DWG	DRAWING	SCFM	STANDARD CUBIC FOOT/MINUTE
DWH	DOMESTIC WATER HEATER	SCW	SOFTENED COLD WATER
DWV	DRAIN WASTE VENT	SP	SUMP PUMP
EC	ELECTRICAL CONTRACTOR	SQFT	SQUARE FEET
EL	ELEVATION	SS	STAINLESS STEEL
ET	EXPANSION TANK	ST	STORM SEWER
EWC	ELECTRIC WATER COOLER	T&P	TEMPERATURE & PRESSURE (RELIEF VALVE)
EXIST	EXISTING	TD	TRENCH DRAIN
F	FAHRENHEIT	TDH	TOTAL DYNAMIC HEAD
FD	FLOOR DRAIN	TEMP	TEMPERATURE/TEMPORARY
FU	FIXTURE UNITS	TMV	THERMOSTATIC MIXING VALVE
FV	FLUSH VALVE	TP	TRAP PRIMER
G	NATURAL GAS	TSTAT	THERMOSTAT
GAL	GALLON	TW	TEMPERED WATER
GALV	GALVANIZED	TYP	TYPICAL
GC	GENERAL CONTRACTOR	UC	UNDERCUT
GPH	GALLONS PER HOUR	UH	UNIT HEATER
GPM	GALLONS PER MINUTE	UL	UNDERWRITERS LABORATORY
H&CW	HOT AND COLD WATER	UPC	UNIFORM PLUMBING CODE
HB	HOSE BIBB	UR	URINAL
HC	HEATING & HVAC CONTRACTOR	V	VENT
HD	HUB DRAIN	VB	VACUUM BREAKER
HP	HORSEPOWER	VTR	VENT THROUGH ROOF
HS	HAND SINK	WC	WATER CLOSET
HW	HOT WATER (DOMESTIC)	WCO	WALL CLEANOUT
INV	INVERT	WH	WALL HYDRANT
IC	IRRIGATION CONTRACTOR	WHA	WATER HAMMER ARRESTER
		WSFU	WATER SUPPLY FIXTURE UNIT
		XA	EXHAUST AIR

PLUMBING SYMBOLS			
	- NEW PIPING AND EQUIPMENT		- GAUGE WITH BALL VALVE
	- EXISTING TO REMAIN PIPING AND EQUIPMENT		- AUTOMATIC AIR VENT
	- PIPING AND EQUIPMENT FOR REMOVAL		- MANUAL AIR VENT
	- BALL VALVE		- THERMOMETER
	- BALL VALVE (HOSE END & CAP)		- BUTTERFLY VALVE
	- BALANCING VALVE		- PIPE CAP
	- CHECK VALVE		- END OF LINE CLEAN OUT
	- CONTROL VALVE - 2 WAY		- HOSE BIBB
	- DRAIN VALVE WITH HOSE BIBB		- FLOOR DRAIN
	- FLANGED CONNECTION		- FLOOR DRAIN WITH P-TRAP
	- FUSIBLE LINK OIL SHUTOFF VALVE		- DECK PLATE CLEAN OUT
	- FLOW CONTROL VALVE		- GAS OUTLET
	- GATE VALVE		- WATER HAMMER ARRESTOR
	- GLOBE VALVE		- WALL HYDRANT
	- GAS COCK		- VACUUM BREAKER
	- LUBRICATED PLUG VALVE		- INLINE PUMP
	- PRESSURE REDUCING VALVE		- WATER METER
	- RELIEF VALVE		- SUCTION DIFFUSER
	- STRAINER WITH BLOWDOWN		- FLEXIBLE CONNECTOR
	- STRAINER WITH BLOWDOWN		- PIPE BREAK
	- SOLENOID VALVE		- PIPE FLOW ARROW
	- THREE-WAY CONTROL VALVE		- REVISION/KEYED NOTE
	- TRIPLE DUTY GLOBE VALVE		- KEYED NOTE
	- UNION		- KEYED NOTE
	- REDUCER OR INCREASER		- KEYED NOTE
	- BRANCH FROM BOTTOM OF PIPE		- POINT OF NEW CONNECTION
	- BRANCH FROM TOP OF PIPE		- LIMIT OF REMOVAL
	- PIPE ELBOW DN		- SAW CUT FLOOR
	- PIPE ELBOW UP		
	PIPE FLOW ARROW		
	BELOW SLAB PIPING		
	CW		
	HW		
	HWC		
	IW		
	SAN		
	D		
	V		
	G		
	SAN		
	SLEEVE		

- GENERAL PLUMBING NOTES:
- DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL ARRANGEMENT OF SYSTEMS AND WORK INCLUDED IN THE CONTRACT. IT IS NOT INTENDED TO SPECIFY OR SHOW EVERY OFFSET, FITTING OR COMPONENT; HOWEVER, CONTRACT DOCUMENTS REQUIRE COMPONENTS AND MATERIALS WHETHER OR NOT INDICATED OR SPECIFICALLY SPECIFIED TO MAKE THE SYSTEMS BEING INSTALLED COMPLETE, CODE COMPLIANT, TESTED AND OPERATIONAL.
 - CONTRACTOR SHALL FIELD VERIFY ALL LOCATIONS, DIMENSIONS AND ELEVATIONS PRIOR TO CONSTRUCTION.
 - ALL MATERIALS, EQUIPMENT, METHODS OF INSTALLATION, REMOVALS AND DISPOSAL SHALL BE IN ACCORDANCE WITH THE STANDARDS, REGULATIONS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE, AND FEDERAL GOVERNMENTS, AND OTHER AUTHORITIES THAT HAVE LAWFUL JURISDICTION.
 - PERFORM WORK, PROVIDE MATERIALS AND EQUIPMENT FOR SYSTEMS SHOWN, SPECIFIED AND DESCRIBED ON DRAWINGS. COMPLETELY COORDINATE ALL TRADES OF THIS CONTRACT AND PROVIDE COMPLETE AND FULLY FUNCTIONAL INSTALLATION. ALL WORK IN THIS SET TO BE COMPLETED UNDER THIS CONTRACT, UNLESS OTHERWISE INDICATED.
 - PROTECT ALL EXISTING AND NEW BUILDING ELEMENTS FROM DAMAGE. CONTRACTOR SHALL RESTORE ALL DAMAGED ELEMENTS TO ORIGINAL OR BETTER CONDITION.
 - WORK SHALL BE EXECUTED IN A WORKMANLIKE MANNER AND SHALL PRESENT NEAT, RECTILINEAR APPEARANCE WHEN COMPLETED. MAINTAIN MAXIMUM HEAD ROOM AT ALL TIMES. DO NOT RUN PIPES, DUCTS, AND CONDUIT EXPOSED UNLESS SHOWN AND NOTED TO BE EXPOSED ON DRAWINGS.
 - MATERIALS AND EQUIPMENT SHALL BE NEW AND INSTALLED ACCORDING TO MANUFACTURER'S INSTRUCTIONS AND RECOMMENDATIONS. MAINTAIN MANUFACTURER'S EQUIPMENT CLEARANCES.
 - CONTRACTOR IS RESPONSIBLE FOR ALL WORK RELATED TO ISOLATING, SHUTTING DOWN, DRAINING, FILLING AND TESTING SYSTEMS TO ALLOW FOR COMPLETION OF WORK. INTERRUPTIONS TO EXISTING SERVICES AND SYSTEMS SHALL BE AS SHORT AS POSSIBLE AND AT A TIME AND DURATION APPROVED BY THE OWNER AND UTILITY AS APPLICABLE. INCLUDE ALL PREMIUM TIME ASSOCIATED WITH INTERRUPTIONS. ALL SYSTEM INTERRUPTIONS SHALL BE SCHEDULED WITH OWNER, UTILITY AND COORDINATED WITH OTHER TRADE WORK.
 - ALL EQUIPMENT PIPING, WIRING, INSULATION ETC. INSTALLED IN HVAC AIR PLENUM SPACES SHALL MEET CODE REQUIREMENTS FOR SMOKE AND COMBUSTIBILITY.
 - SEAL ALL PENETRATIONS THROUGH FIRE RATED WALLS, PARTITIONS AND FLOORS WITH UL RATED MATERIALS/METHODS EQUIVALENT TO FIRE RATING OF ASSEMBLY.
 - PROVIDE PROPER ACCESS TO EQUIPMENT THAT REQUIRES INSPECTION, REPLACEMENT OR REPAIR. ACCESS PANELS/DOORS SHALL BE A MINIMUM OF 12"x12", UNLESS OTHERWISE NOTED.
 - DO NOT SUPPORT EQUIPMENT FROM SUSPENDED CEILINGS. ALL SUPPORT SHALL BE FROM BUILDING STRUCTURE OR FROM CEILING SUSPENSION SYSTEM WHICH HAS BEEN REINFORCED. SUPPORTS SHALL BE SELECTED AND INSTALLED TO PROVIDE A VIBRATION FREE INSTALLATION.
 - PLUMBING CONTRACTOR IS RESPONSIBLE FOR JETTING/SNAKING ALL SANITARY WASTE LINES (ALL FLOOR DRAINS) SHOWN ON THE DRAWINGS TO BE FULLY OPERATIONAL. (AS APPLICABLE)
 - CLEANING DURING PLUMBING WORK: THE MECHANICAL ROOM AND ROOMS WHERE WORK WILL BE DONE TO MINIMIZE DISTURBANCE IN THE BUILDINGS. WORKERS ARE TO USE PATHWAYS AND FACILITIES AGREED UPON WITH THE DISTRICT DESIGNEE IN WRITING. THE AREA OUTSIDE THE BUILDING WHERE CUTTING, WELDING OR STORAGE IS ALLOWED IS TO BE FENCED AT ALL TIMES. THE CONTRACTOR WILL ON A DAILY BASIS CLEAN THE GROUNDS AND THE BUILDING OF ANY DEBRIS OR GARBAGE GENERATED BY THEIR WORK.
 - EACH CONTRACTOR RESPONSIBLE FOR RETURNING WALLS, CEILINGS AND SURFACES THEY DISTURB THAT ARE NOT SCHEDULED FOR REPLACEMENT BACK TO ORIGINAL CONDITIONS.

IT IS A VIOLATION OF THE LAW FOR ANY PERSON UNLESS HE IS ACTING UNDER THE DIRECTION OF A LICENSED PROFESSIONAL ARCHITECT/ENGINEER TO ALTER THE DRAWINGS IN ANY WAY. ALL ALTERATIONS MUST HAVE THE SEAL, ATTACHED ALONG WITH A DESCRIPTION OF THE ALTERATION, THE SIGNATURE AND DATE. COPYRIGHT © 2019

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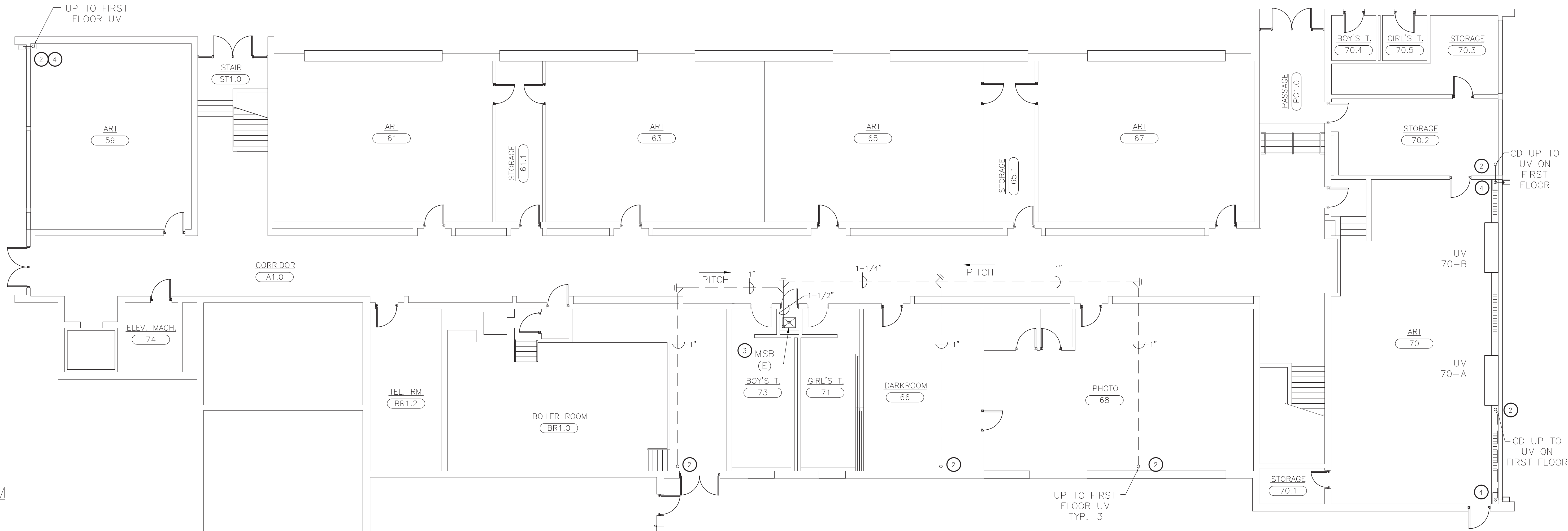
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STAMP

WARWICK VALLEY CENTRAL SCHOOL DISTRICT
HIGH SCHOOL UNIT VENTILATOR REPLACEMENT AND
AIR CONDITIONING UPGRADE
225 WEST STREET EXT. WARWICK, NY 10990
WV HIGH SCHOOL - 89 SANFORDVILLE ROAD, WARWICK, NY 10990
SED NO. 44-21-01-06-0-001-042

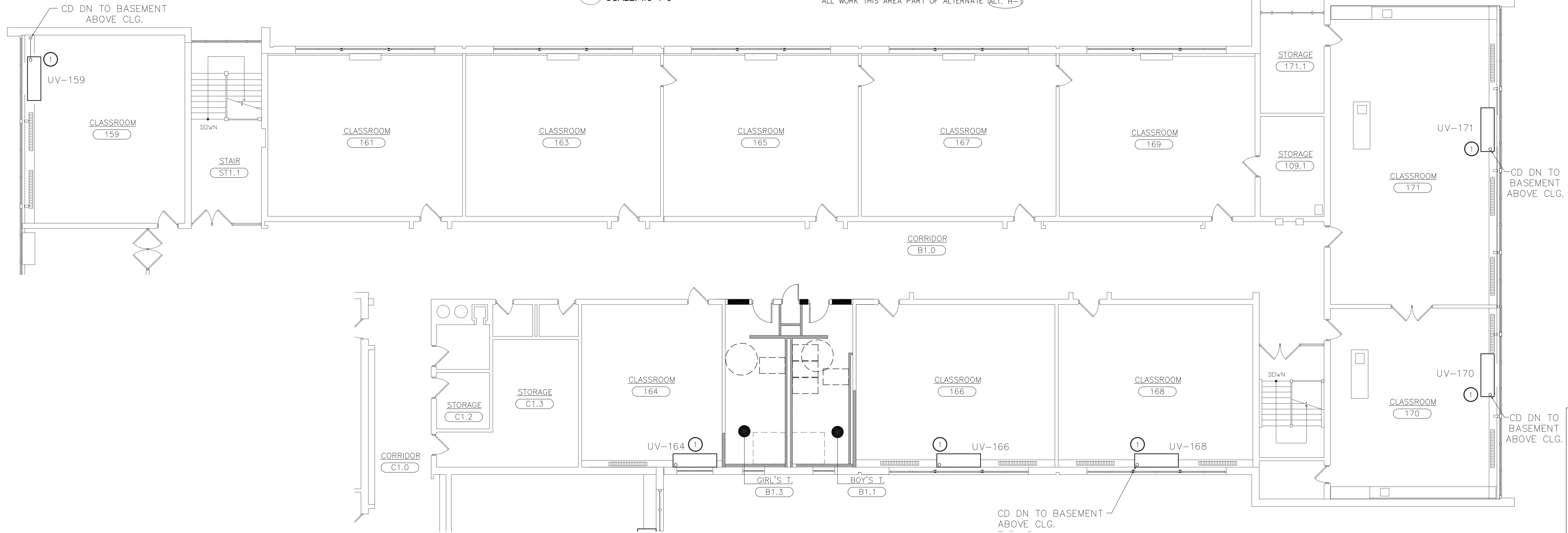
PROJECT NO.	05-21-04 06-20-06
ISSUED FOR BID	11.09.2022
SET	10.19.2022
REVISION	DATE
DRAWN BY	
CHECKED BY	
SHEET SIZE	30" X 42"
SCALE	AS NOTED
SHEET TITLE ABBREVIATIONS AND NOTES	
SHEET NO.	

P-001



1 PARTIAL BASEMENT FLOOR PLAN - NEW WORK
SCALE: 1/8"=1'-0"

ALL WORK THIS AREA PART OF ALTERNATE (ALT. H-3)



2 PARTIAL FIRST FLOOR PLAN - NEW WORK
SCALE: 1/8"=1'-0"

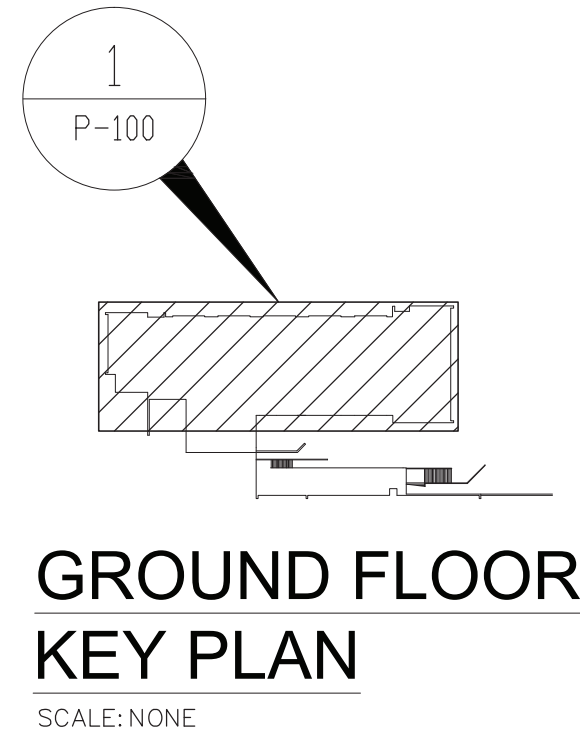
ALL WORK THIS AREA PART OF ALTERNATE (ALT. H-3)

KEYED NOTES - NEW WORK:

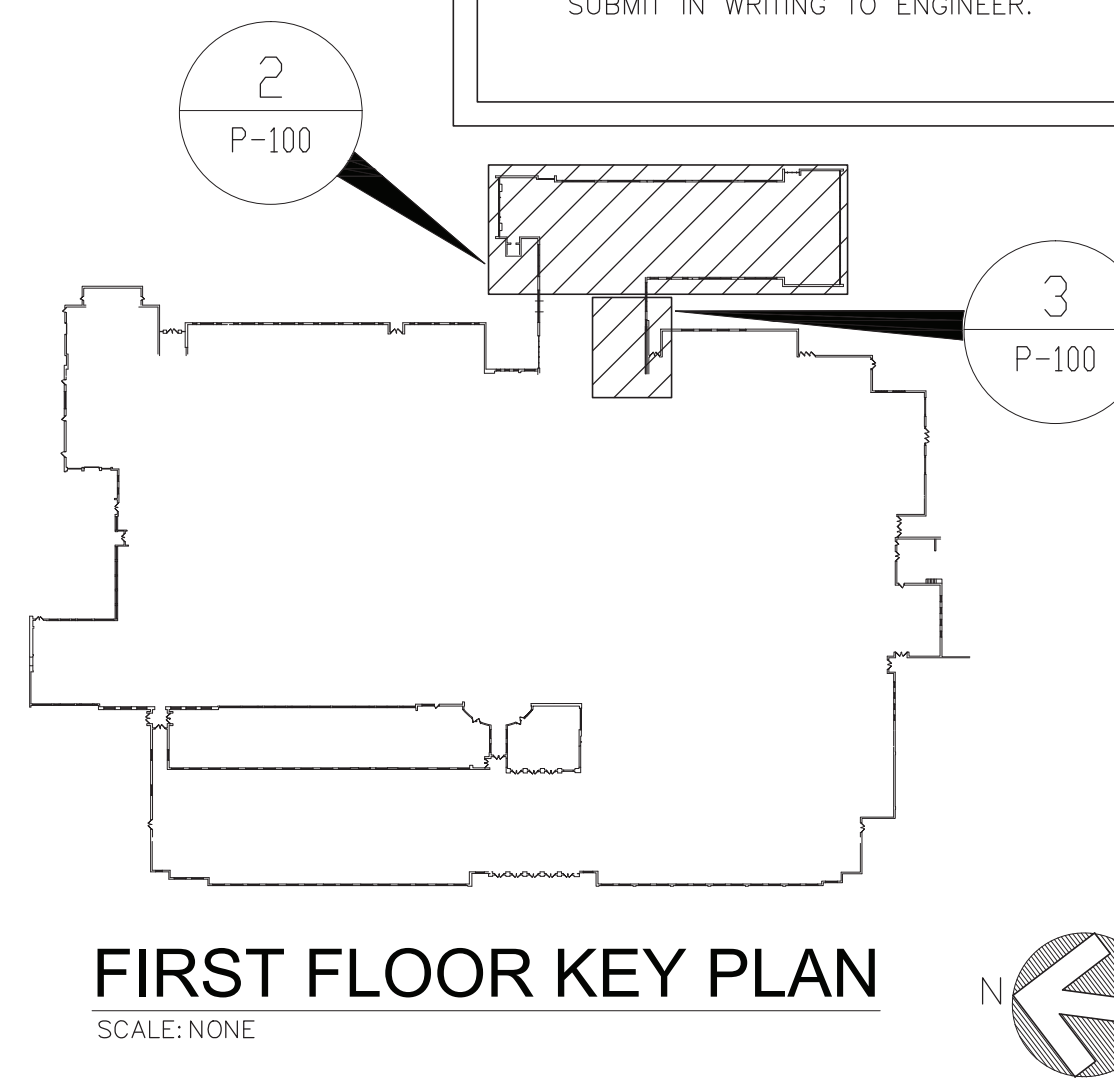
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- 2 PROVIDE PVC CONDENSATE PIPING AND CLEANOUTS TO TIE INTO UVS ON THE FLOOR ABOVE. RUN PIPING ABOVE DROP CEILINGS WITH 1/8" PER FOOT PITCH.
- 3 TERMINATE CONDENSATE PIPING AT MSB INDICATED. SEE DETAILS FOR MORE INFORMATION.
- 4 DROP CONDENSATE PIPING INSIDE NEW PIPE CHASE AND TERMINATE OUTSIDE WITH COPPER ELBOW AS SHOWN. MAKE PENETRATIONS TO EXTERIOR WEATHERTIGHT. INSTALL SPLASHBLOCKS ON GRADE SLOPED AWAY FROM FOUNDATION. SEE DETAILS FOR MORE INFORMATION. MECHANICAL CONTRACTOR TO PROVIDE SHEET METAL PIPE CHASE AND FURNISH P.C. WITH SPLASHBLOCKS.

GENERAL NOTES:

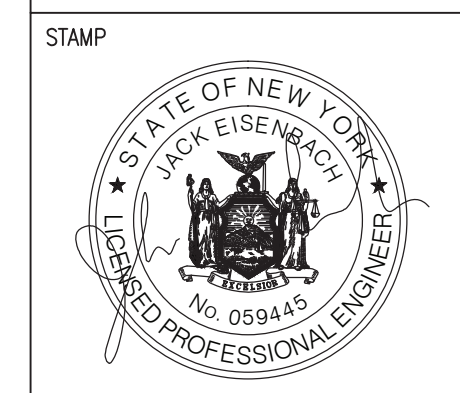
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3. DRAWINGS INDICATE GENERAL DESIGN INTENT ONLY. VERIFY FIELD CONDITIONS BEFORE ORDERING MATERIALS AND EQUIPMENT. IDENTIFY CONFLICTS AND SUBMIT IN WRITING TO ENGINEER.



GROUND FLOOR
KEY PLAN
SCALE: NONE

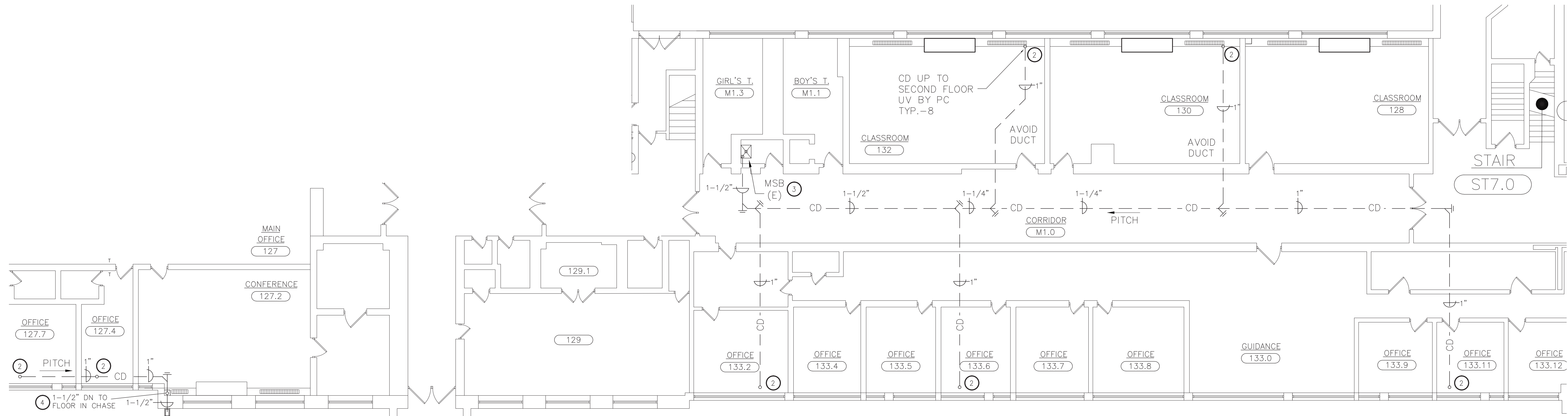


FIRST FLOOR KEY PLAN
SCALE: NONE



**WARWICK VALLEY CENTRAL SCHOOL DISTRICT
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SCALE	AS NOTED
SHEET TITLE	PARTIAL BASEMENT AND FIRST FLOOR PLANS - NEW WORK
SHEET NO.	P-100



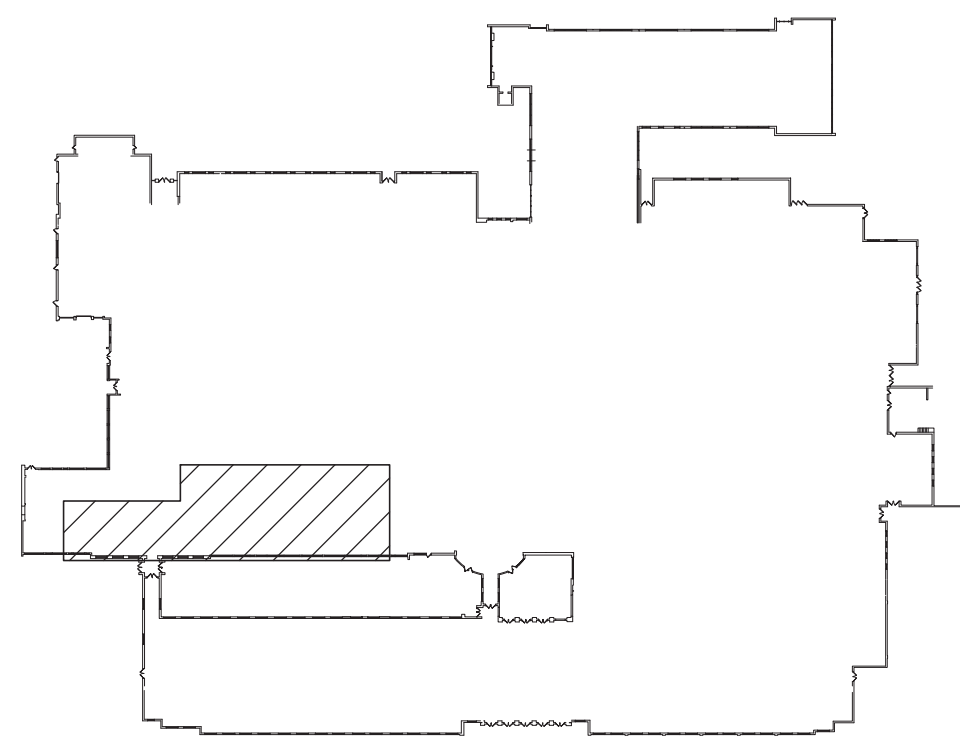
1 PARTIAL FIRST FLOOR PLAN - NEW WORK
SCALE: 1/8"=1'-0"

KEYED NOTES - NEW WORK:

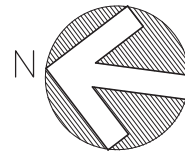
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3. TERMINATE CONDENSATE PIPING AT MSB INDICATED. SEE DETAILS FOR MORE INFORMATION.
4. DROP CONDENSATE PIPING INSIDE NEW PIPE CHASE AND TERMINATE OUTSIDE WITH COPPER ELBOW AS SHOWN. MAKE PENETRATIONS TO EXTERIOR WEATHERTIGHT. INSTALL SPLASHBLOCKS ON GRADE SLOPED AWAY FROM FOUNDATION. SEE DETAILS FOR MORE INFORMATION. MECHANICAL CONTRACTOR TO PROVIDE SHEET METAL PIPE CHASE AND FURNISH P.C. WITH SPLASHBLOCKS.

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FIRST FLOOR KEY PLAN
SCALE: NONE



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WV HIGH SCHOOL - 89 SANFORDVILLE ROAD, WARWICK, NY 10990

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REVISION	DATE
DRAWN BY	
CHECKED BY	
SHEET SIZE	30" X 42"
SCALE	AS NOTED

**PARTIAL FIRST FLOOR
PLAN - NEW WORK**

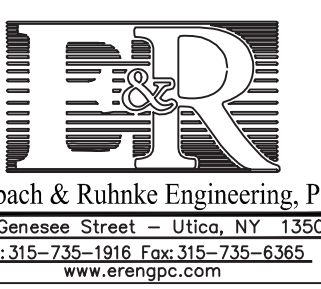
SHEET NO.

P-101

STAMP



ENGINEER:

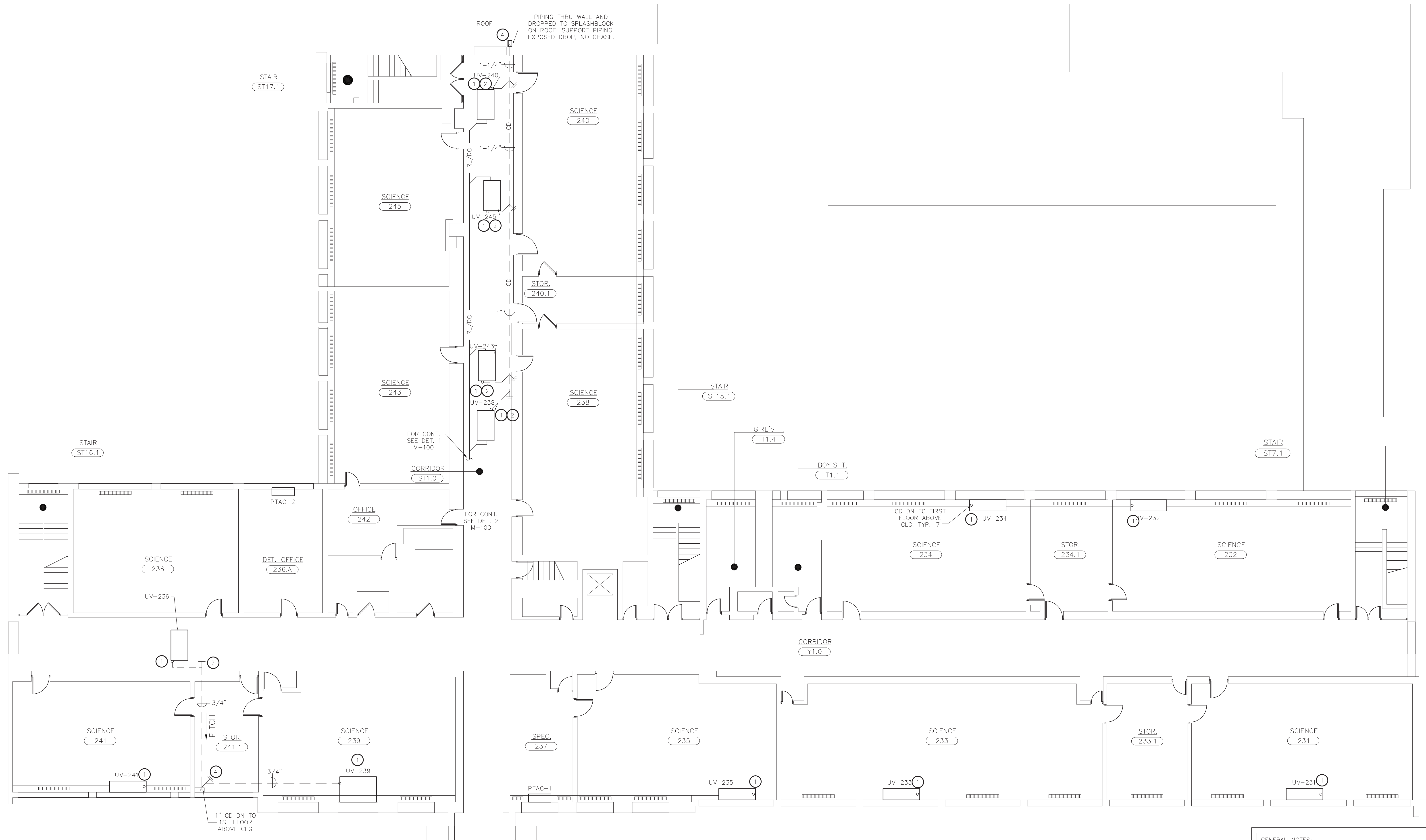


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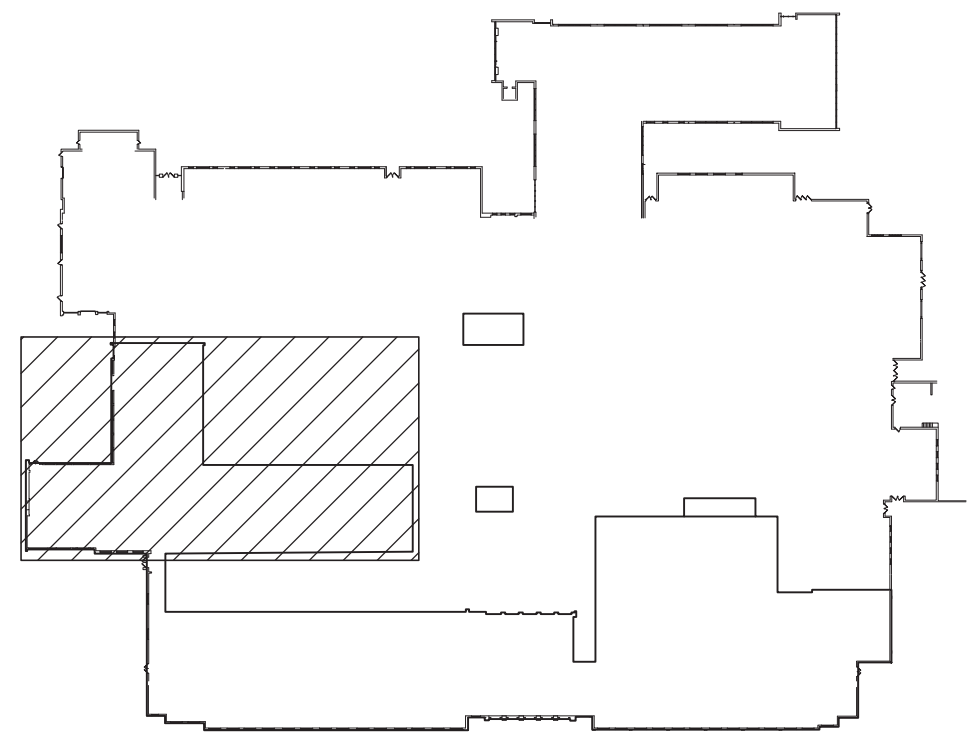
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1 PARTIAL SECOND FLOOR PLAN - NEW WORK
SCALE: 1/8"=1'-0"

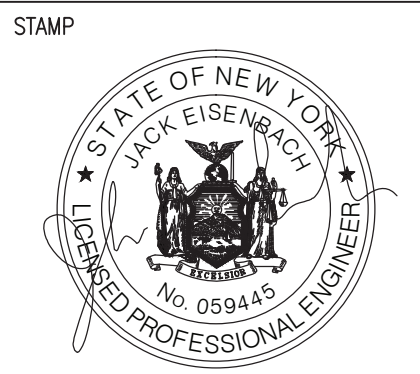
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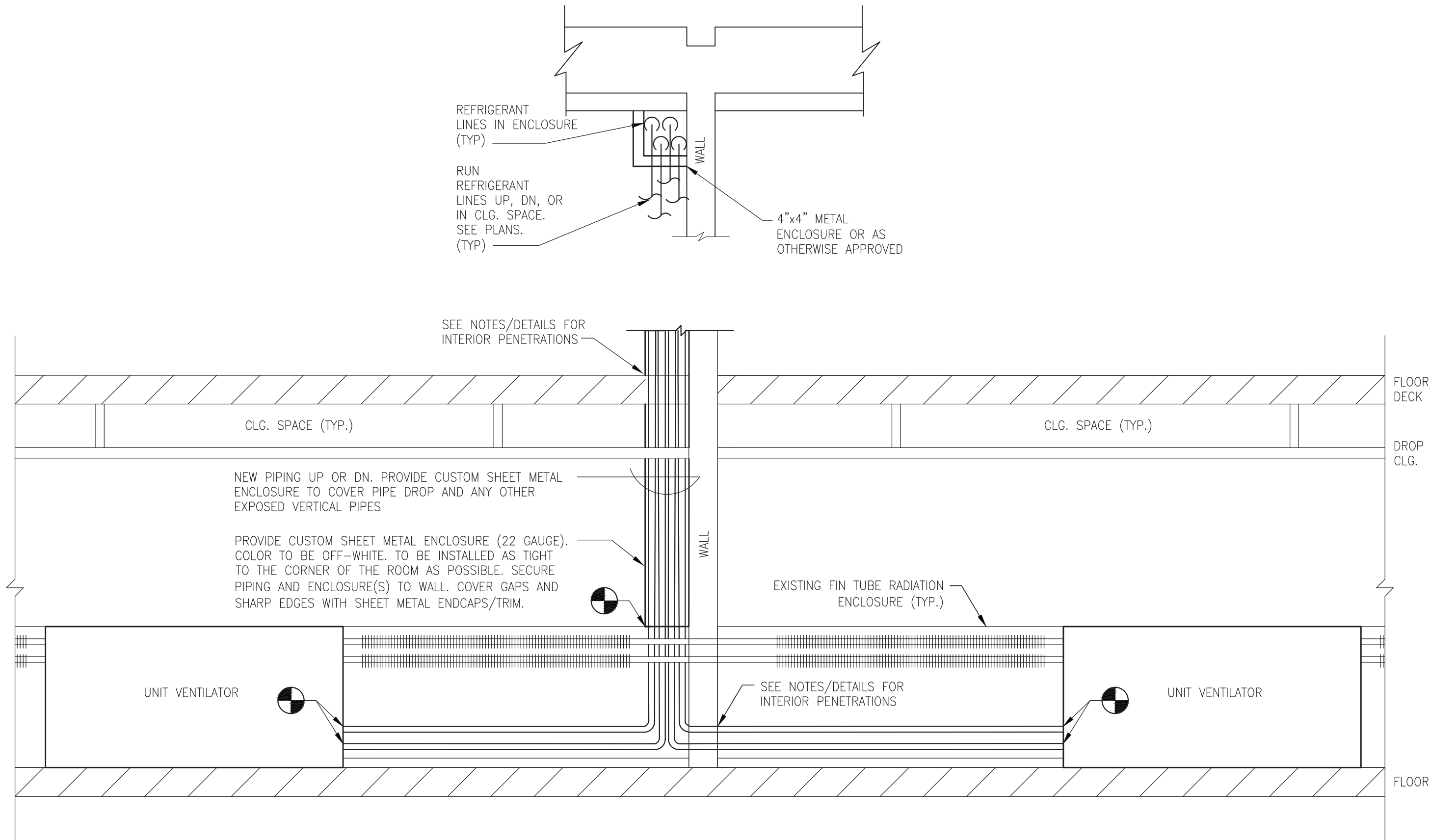
SECOND FLOOR KEY PLAN
SCALE: NONE

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PARTIAL SECOND FLOOR PLAN - NEW WORK	
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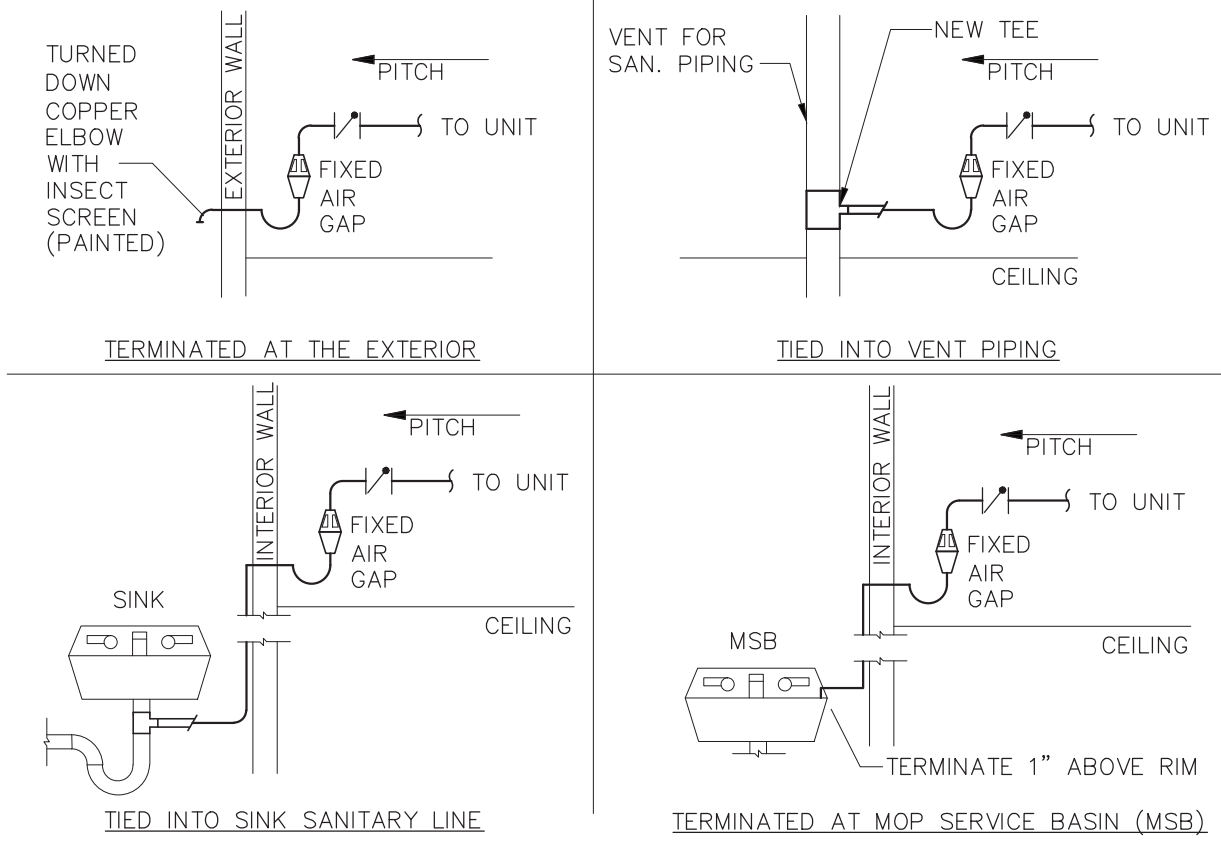
4 CUSTOM PIPING ENCLOSURE DETAIL (TYPICAL)
SCALE: NONE

NEW WORK NOTES:

SEE MANUFACTURER INSTALLATION RECOMMENDATIONS. ACTUAL PIPING PATHS WILL VARY. SEE DRAWINGS FOR INTENT. VERIFY COIL CONNECTION SIZES BEFORE ORDERING EQUIPMENT.

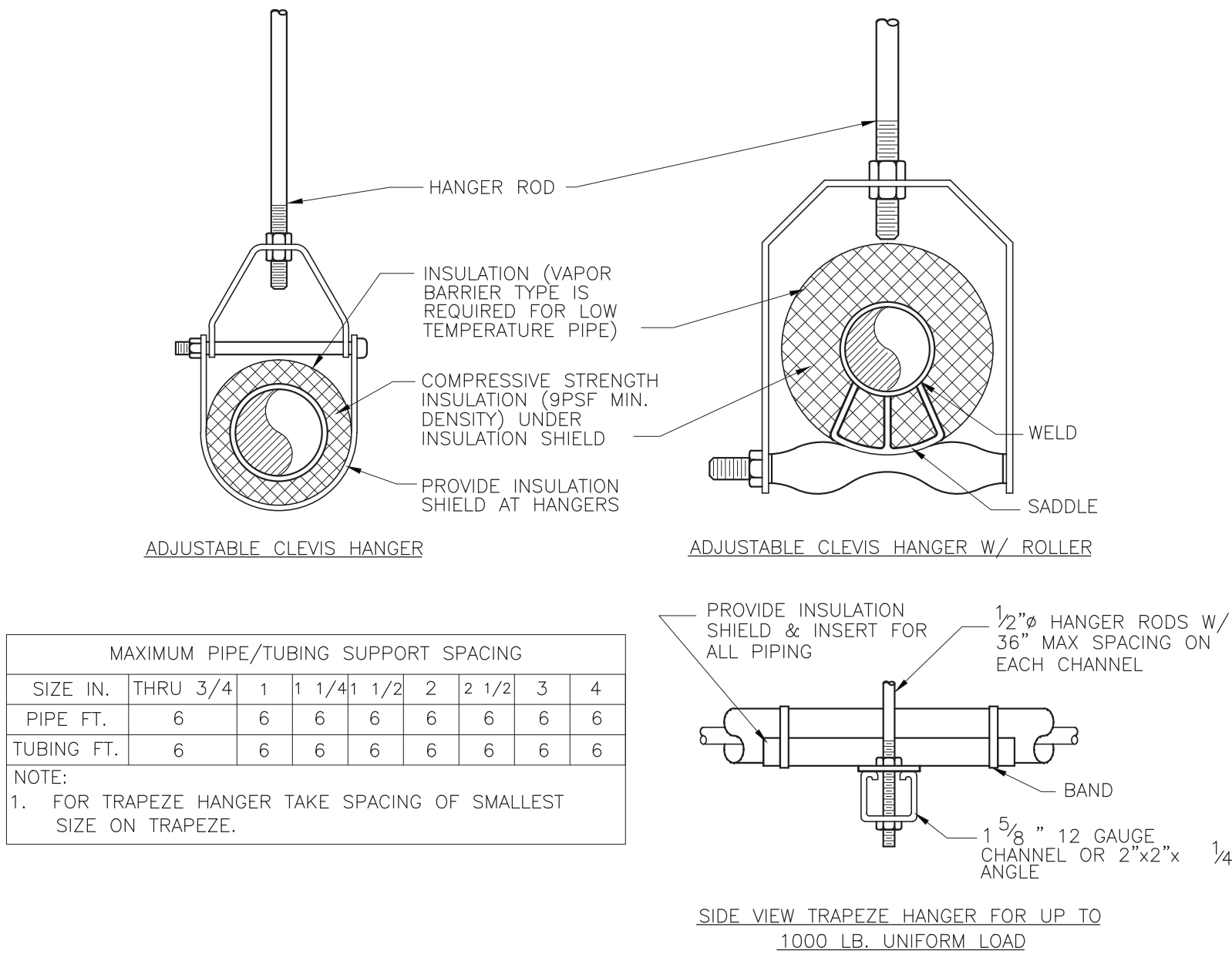
INSULATION SCHEDULE												
TYPE	EQUIPMENT OR SYSTEM SERVED	INSULATION CLASS (a)			JACKETING CLASS (b)			THICKNESS (IN)				
		INTERIOR CONCEALED	INTERIOR EXPOSED	EXTERIOR	INTERIOR GENERAL	EQUIPMENT ROOMS	EXTERIOR	NOMINAL PIPE SIZE (IN)				
								<1"	1"-<1½"	1½"- <4"	4 "- <8"	≥8 & UP
A	DCW, COOLING COIL CONDENSATE	FE	--	--	0	--	--	0.5	0.5	1.0	1.0	1.0
		--	FE	--	--	0	--	0.5	0.5	1.0	1.0	1.0
B	DHW/ DHWR	FG	--	--	1	--	--	1.5	1.5	2	2	2
		--	FG	--	--	1	--	1.5	1.5	2	2	2
C	IW, SAN, CW EXTERIOR	--	--	--	--	--	--					
		--	--	FG	--	--	2	1.5	1.5	1.5	1.5	1.5
(a) FG -- FIBROUS GLASS				(b) 0 -- NONE								
FE -- FLEXIBLE ELASTOMERIC				1 -- ALL SERVICE				(d) BLANKET				
UR -- URETHANE				2 -- POLYVINYL CHLORIDE								
CS -- CALCIUM SILICATE				3 -- CANVAS				(e) RIGID BOARD				
FR -- FIRE RATED				4 -- POLYVINYL CHLORIDE								

ALL INSULATION TO COMPLY WITH 2020 NYS ENERGY CONSERVATION CONSTRUCTION CODE



NOTE:
RUN CONDENSATE PIPING WITH TRAP AND VENT FROM ALL EVAPORATOR COILS TO LOCATION SPECIFIED. PROVIDE INSULATION AND SUPPORT. SIZE TO BE 3/4" UNLESS OTHERWISE SPECIFIED.
PIPING AT WALL PENETRATIONS TO BE SLEEVED. CHANGEOVER FROM PVC TO COPPER FOR EXTERIOR TERMINATION TO BEGIN BEFORE EXTERIOR WALL PENETRATION.
(TYPICAL FROM ALL EVAPORATOR/ DX COILS)
SEE M DWGS FOR LOCATIONS

CONDENSATE PIPING CONNECTION DETAIL
SCALE: NONE

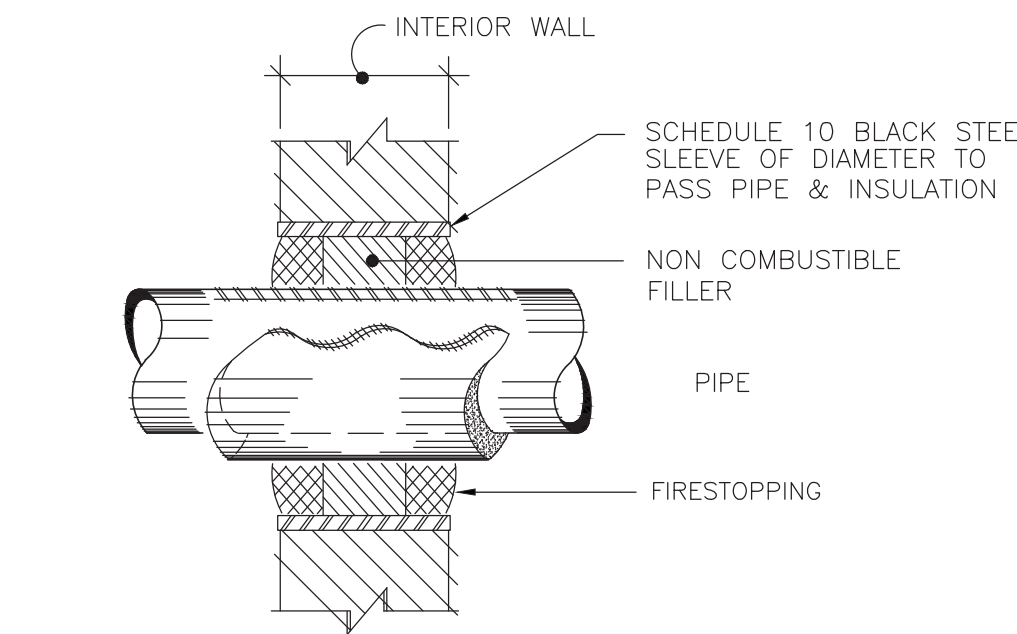


MAXIMUM PIPE/TUBING SUPPORT SPACING											
SIZE IN.	THRU 3/4"	1"	1 1/4"	1 1/2"	2"	2 1/2"	3"	4"	6"	8"	10"
PIPE FT.	6	6	6	6	6	6	6	6	6	6	6
TUBING FT.	6	6	6	6	6	6	6	6	6	6	6

NOTE:
1. FOR TRAPEZE HANGER TAKE SPACING OF SMALLEST SIZE ON TRAPEZE.

SIDE VIEW TRAPEZE HANGER FOR UP TO 1000 LB. UNIFORM LOAD

PIPE SUPPORT DETAIL
SCALE: NONE

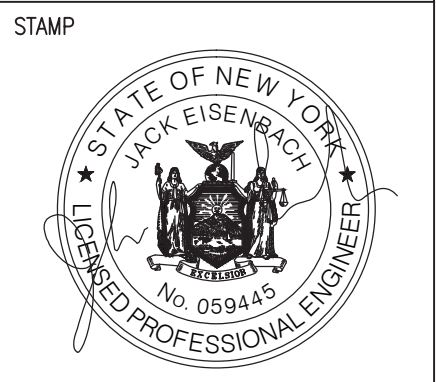


PIPE SLEEVE AT WALL PENETRATION
SCALE: NONE

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WARWICK VALLEY CENTRAL SCHOOL DISTRICT
HIGH SCHOOL UNIT VENTILATOR REPLACEMENT AND
AIR CONDITIONING UPGRADE
225 WEST STREET EXT. WARWICK, NY 10990
WV HIGH SCHOOL - 89 SANFORDVILLE ROAD, WARWICK, NY 10990
SED NO. 44-21-01-06-0-001-042

PROJECT NO.	05-21-04 06-20-06
ISSUED FOR BID	11.09.2022
SET	10.19.2022
REVISION	DATE
DRAWN BY	
CHECKED BY	
SHEET SIZE	30" X 42"
SCALE	AS NOTED

SCHEDULE AND DETAILS