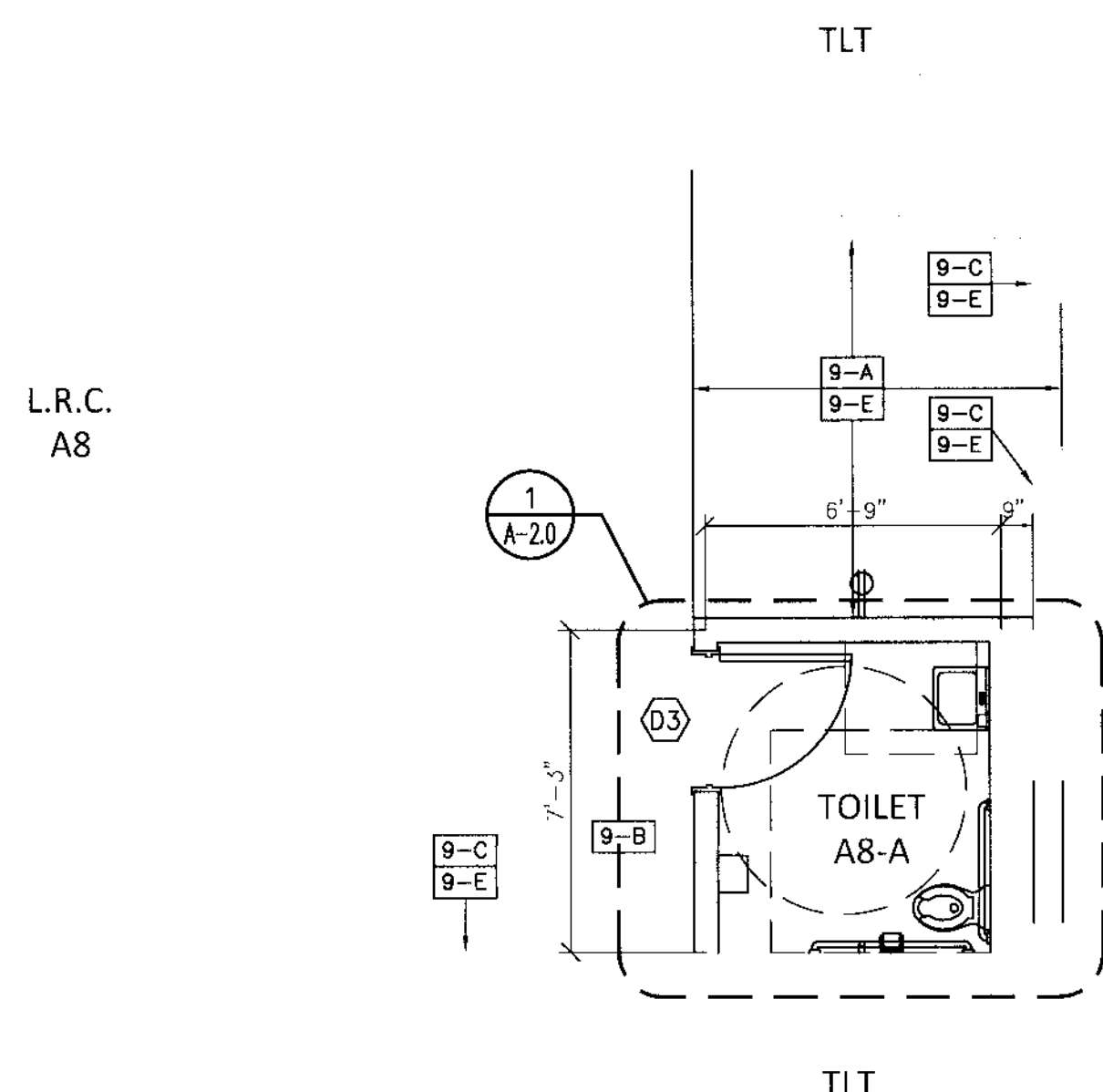


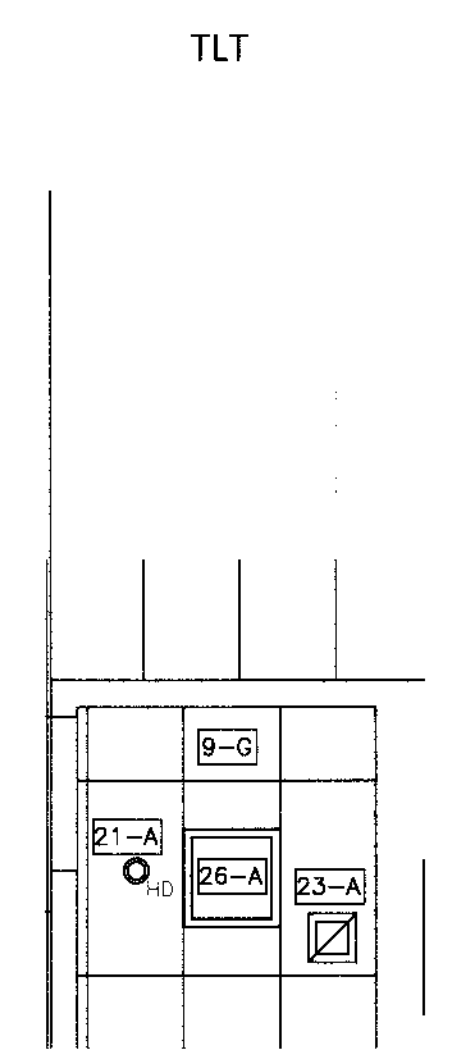
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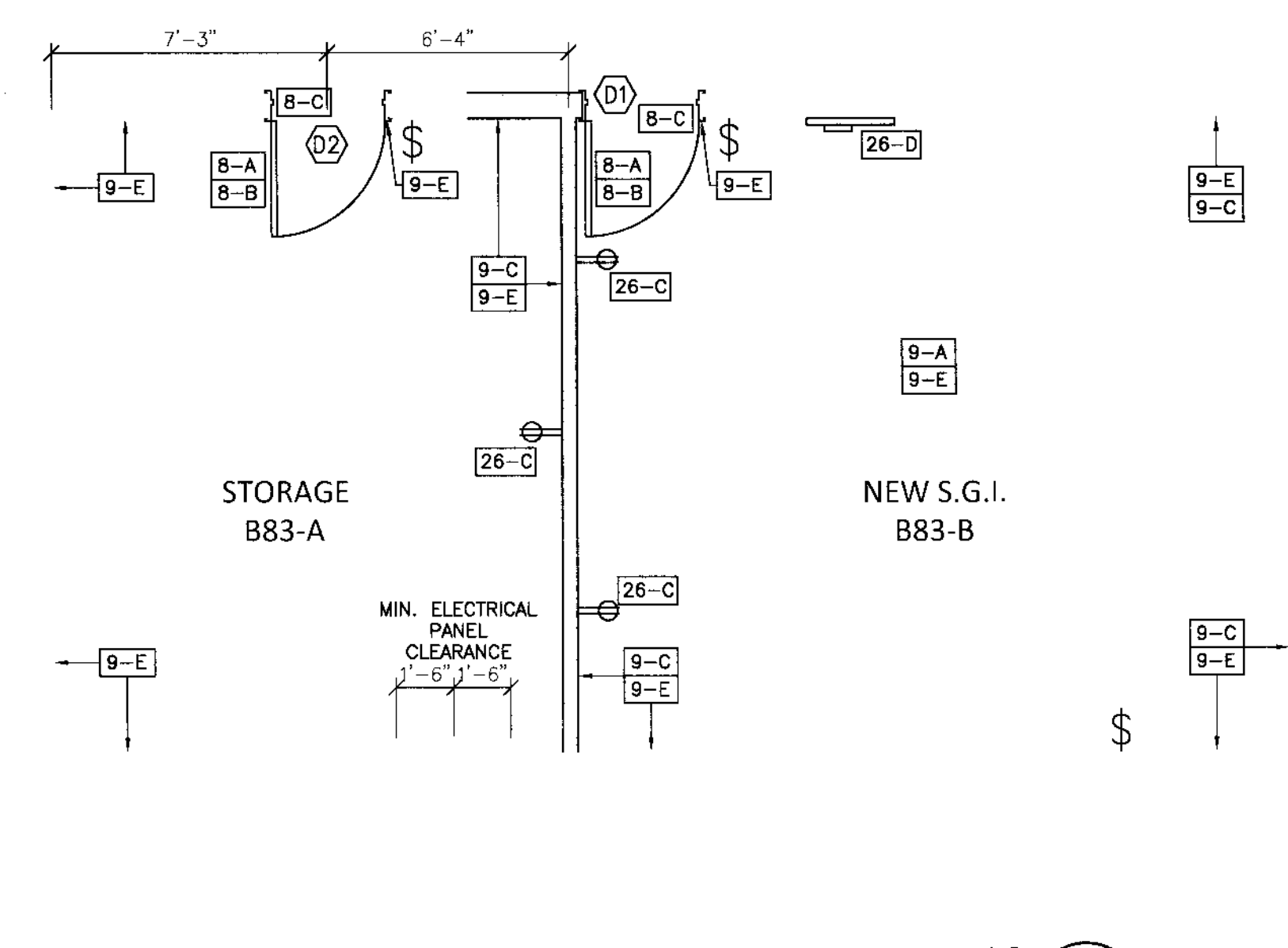
PROPOSED FLOOR PLAN - A8 3
SCALE: 1/4" = 1'-0"

L.R.C. A8

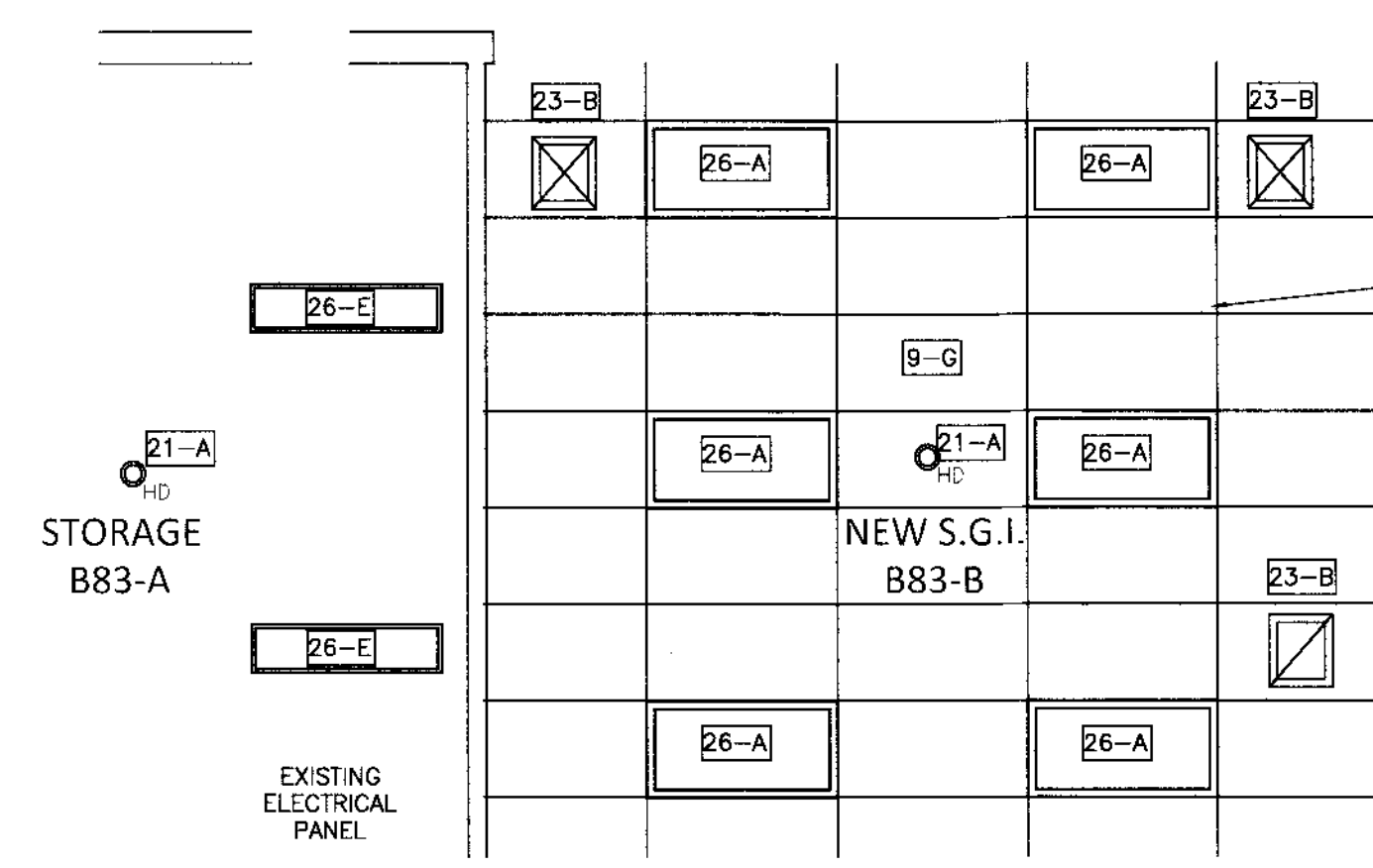


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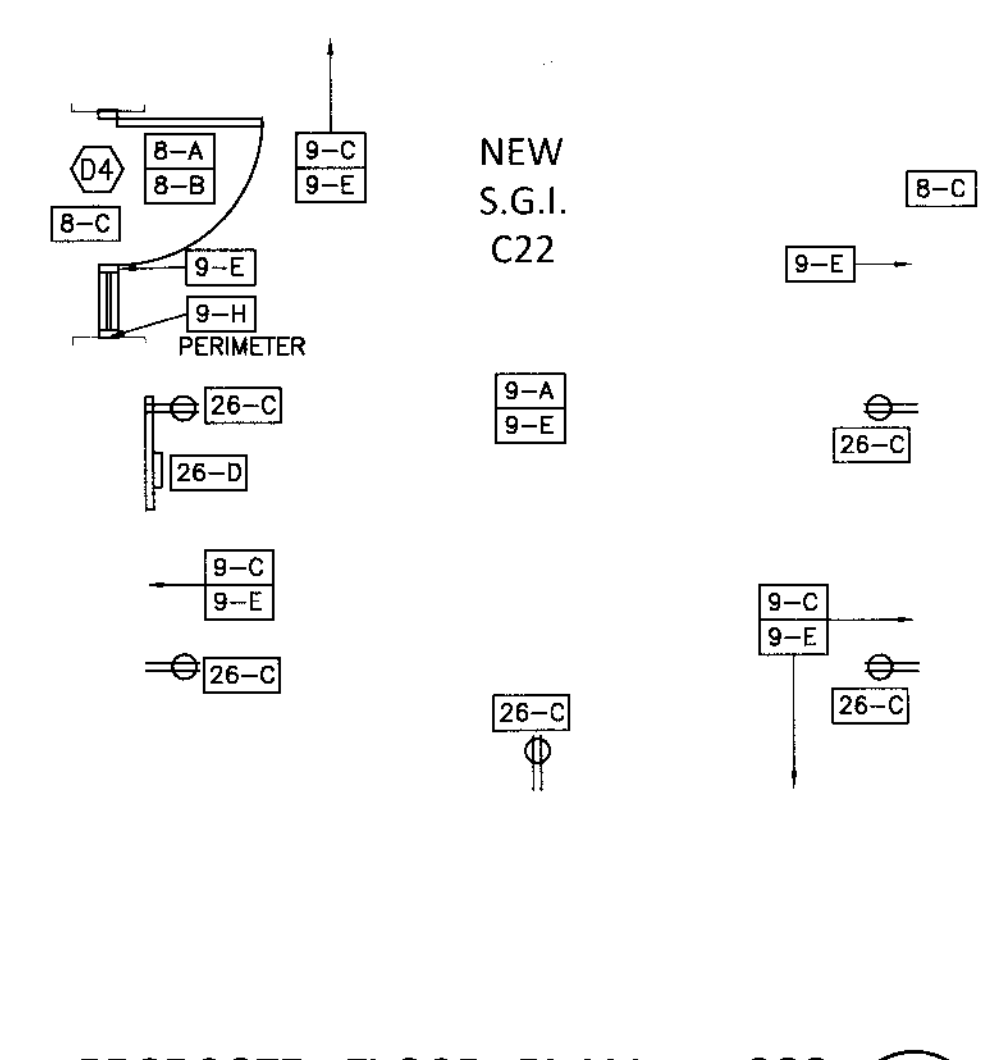
PROPOSED REFLECTED CEILING PLAN - A8 6
SCALE: 1/4" = 1'-0"



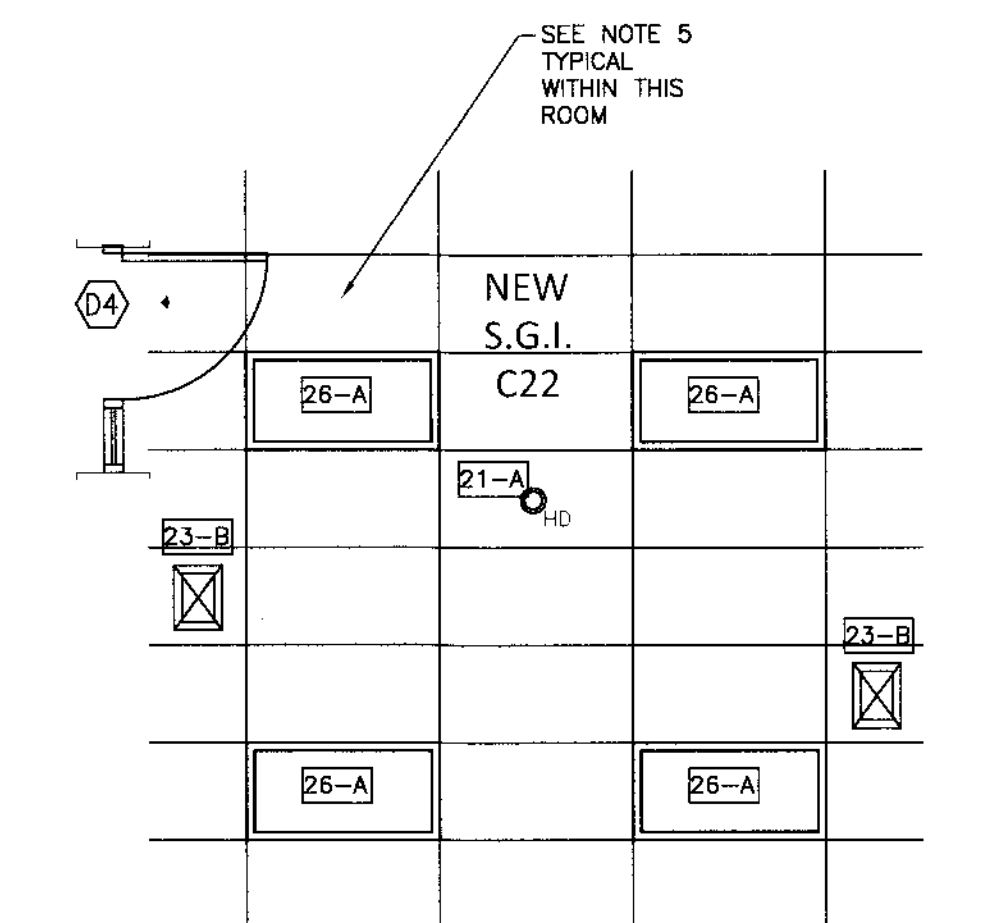
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PROPOSED REFLECTED CEILING PLAN - B83 5
SCALE: 1/4" = 1'-0"



PROPOSED FLOOR PLAN - C22 1
SCALE: 1/4" = 1'-0"



PROPOSED REFLECTED CEILING PLAN - C22 4
SCALE: 1/4" = 1'-0"

MATERIAL KEYNOTES

- 8 DOORS AND WINDOWS
- 8-A NEW SOLID WOOD DOOR AND HARDWARE
 - 8-B NEW HOLLOW METAL DOOR FRAME
 - 8-C NEW ADA ALUMINUM THRESHOLD TO MEET CONDITIONS
 - 8-D NEW ADA MARBLE THRESHOLD
 - 8-E NOT USED
- 9 FINISHES
- 9-A NEW VCT FLOORING. COLOR TO BE SELECTED BY OWNER
 - 9-B NEW CARPET TILE FLOORING, TO MATCH EXISTING
 - 9-C NEW 4" VINYL COVE BASE, COLOR TO BE SELECTED BY OWNER
 - 9-D NEW CERAMIC FLOOR TILE, INCLUSIVE OF GROUT. COLOR TO BE SELECTED BY OWNER.
 - 9-E NEW PRIME AND PAINT. ALL EXPOSED SURFACES TO BE PRIMED AND PAINTED REGARDLESS IF NOTED ON THE FLOOR PLANS. COLORS TO BE SELECTED BY OWNER.
 - 9-F NEW 4" CERAMIC WALL TILE, INCLUSIVE OF GROUT. COLOR TO BE SELECTED BY OWNER.
 - 9-G NEW 2'x4' ACOUSTICAL CEILING GRID AND TILE SYSTEM, COMPLETE.
 - 9-H NEW BREAK METAL TO CONCEAL RAW CMU. COLOR TO BE SELECTED BY OWNER
- 10 SPECIALTIES
- 10-A NEW 1-1/4" DIA. GRAB BARS.
 - 10-B NEW ADA UNDER COUNTER PIPE INSULATION
 - 10-C TOILET PAPER DISPENSER LOCATION. DISTRICT TO SUPPLY, CONTRACTOR TO INSTALL
 - 10-D PAPER TOWEL DISPENSER LOCATION. DISTRICT TO SUPPLY, CONTRACTOR TO INSTALL
 - 10-E SOAP DISPENSER LOCATION. DISTRICT TO SUPPLY, CONTRACTOR TO INSTALL
 - 10-F NEW 18"x36" MIRROR

- 21 FIRE SUPPRESSION
- 21-A NEW OR REINSTALL FIRE/SMOKE/HEAT DETECTOR. SEE ELECTRICAL DRAWINGS FOR INFORMATION AND EXACT LOCATION.
- 22 PLUMBING
- 22-A NEW WALL MOUNTED LAVATORY. SEE PLUMBING DRAWINGS
 - 22-B NEW FLOOR MOUNTED PRE-K WATER CLOSET. SEE PLUMBING DRAWINGS
 - 22-C NOT USED
- 23 VENTILATION
- 23-A NEW EXHAUST FAN, INCLUSIVE OF REGISTER, SEE MECHANICAL DRAWINGS
 - 23-B NEW RETURN/SUPPLY REGISTER.
- 26 ELECTRICAL
- 26-A NEW LED 2'-0" X 4'-0" LAY-IN LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR INFORMATION AND EXACT LOCATION.
 - 26-B NEW LED LAY-IN LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR INFORMATION AND EXACT LOCATION.
 - 26-C NEW DUPLEX OUTLET, SEE ELECTRICAL DRAWINGS FOR INFORMATION AND EXACT LOCATION.
 - 26-D NEW CLOCK/PA SYSTEM, SEE ELECTRICAL DRAWINGS FOR INFORMATION AND EXACT LOCATION.
 - 26-E RELOCATED LIGHT FIXTURE, SEE ELECTRICAL DRAWINGS FOR INFORMATION AND EXACT LOCATION.

GENERAL NOTES

1. THE GENERAL CONTRACTOR (GC) SHALL BE RESPONSIBLE AND OBLIGATED TO SUCCESSFULLY COMPLETE ALL OF THE WORK SHOWN ON THE ARCHITECTURAL PLANS AND TO COMPLETE EACH AND EVERY NECESSARY DETAIL OF EVERY ITEM SPECIFIED AND / OR IS REQUIRED TO COMPLETE THE SPECIFIED WORK REGARDLESS OF WHETHER OR NOT A DETAIL IS SPECIFICALLY MENTIONED IN THESE SPECIFICATIONS.
2. THE GC SHALL VERIFY ALL DIMENSIONS PRIOR TO ORDERING ANY MATERIALS. ANY DISCREPANCIES DUE TO FAILURE OF DIMENSION CONFIRMATION SHALL BE RECTIFIED AT NO ADDITIONAL COST TO THE OWNER.
3. THE GC SHALL MAKE EVERY EFFORT TO PROTECT ALL ADJACENT SURFACES, MATERIALS, AND FIXED EQUIPMENT OR FURNISHINGS. IF DAMAGED IT IS THE GC'S RESPONSIBILITY TO RESTORE TO EXISTING CONDITION AND/OR REPLACE.
4. THE GC SHALL REPAIR, PATCH, PRIME AND PAINT ALL SURFACES DAMAGED REQUIRED TO BE REMOVED AND/OR EXPOSED OR IMPACTED DURING CONSTRUCTION, REGARDLESS IF NOTED ON PLANS, ELEVATIONS AND DETAILS AT NO ADDITIONAL COST TO THE OWNER.
- 4.1. ALL PATCHING AND PAINTING SHALL BE UNDETECTABLE TO EXISTING ADJACENT SURFACES. PAINTING ENTIRE WALL, CORNER TO CORNER, IS REQUIRED AT NO ADDITIONAL COST TO THE OWNER.
5. EXISTING SPRINKLER HEADS SHALL BE REMOVED AND REINSTALLED AS NECESSARY TO BE INSTALLED IN HEIGHT OF NEW CEILING.

GENERAL NOTES

- (ALL MATERIAL NOTES, SYMBOLS & ABBREVIATIONS MAY NOT BE USED ON THIS PROJECT)
- EXAMINE JOB SITE AND VERIFY ALL SITE CONDITIONS PRIOR TO SIGNING CONTRACT. BRING ANY DISCREPANCY BETWEEN THE CONTRACT DOCUMENTS AND THE ACTUAL FIELD CONDITIONS TO THE ATTENTION OF THE ARCHITECT/ENGINEER.
- THE LOCATION OF EXISTING UTILITIES IS SHOWN IN AN APPROXIMATE WAY ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION OF ALL EXISTING UTILITIES BEFORE COMMENCING WORK. THE CONTRACTOR SHALL PAY FOR AND REPAIR ALL DAMAGES CAUSED BY FAILURE TO EXACTLY LOCATE AND PRESERVE ANY AND ALL UTILITIES UNLESS OTHERWISE INDICATED.
- THE DRAWINGS ARE DIAGRAMMATIC. COORDINATE IN THE FIELD WITH THE ARCHITECT AND WITH ALL TRADES. THE EXACT LOCATION OF EQUIPMENT, FIXTURES, VALVES, THERMOSTATS, ETC. AND ROUTING OF PIPING, DUCTWORK, CONDUIT, ETC.
- PERFORM WORK IN ACCORDANCE WITH RULES, REGULATIONS, STANDARDS, CODES, ORDINANCES, AND LAWS OF LOCAL, STATE AND FEDERAL GOVERNMENTS AND OTHER AUTHORITIES HAVING JURISDICTION AND BE RESPONSIBLE FOR COMPLIANCE THEREWITH.
- OBTAIN ALL NECESSARY APPROVALS, PERMITS AND INSPECTIONS. PAY ALL ASSOCIATED FEES.
- GUARANTEE ALL SYSTEMS AND WORK FOR A PERIOD OF ONE (1) YEAR FROM DATE OF FINAL ACCEPTANCE. GUARANTEE REFRIGERATION COMPRESSORS FOR FIVE (5) YEARS.
- BEFORE STARTING FABRICATION/WORK SUBMIT TO ARCHITECT/ENGINEER FOR APPROVAL SIX (6) COMPLETE SETS OF SHOP DRAWINGS AND PRODUCT DATA FROM MANUFACTURERS, SUPPLIERS, ETC.
- ALL MATERIALS SHALL BE NEW AND OF COMMERCIAL GRADE AND BEAR THE UNDERWRITER'S LABEL WHERE APPLICABLE.
- LOCATE ALL EXISTING UTILITIES AND MAKE SERVICEABLE CONNECTIONS TO SAME.
- OBTAIN APPROVAL FROM THE BUILDING OWNER'S REPRESENTATIVE PRIOR TO ANY INTERRUPTION OF BUILDING SYSTEMS. COORDINATE ACCEPTABLE WORKING HOURS TO SAME.
- REMOVE ALL ABANDONED EQUIPMENT, FIXTURES, DUCTWORK, PIPING, CONDUIT, ETC. CAP ALL PIPING ABANDONED IN WALLS.
- ALL CUTTING AND PATCHING IS BY RESPECTIVE CONTRACTORS. CORE DRILL OR SAW CUT ALL MASONRY AND RESTORE ALL SURFACES TO ORIGINAL CONDITION. PAINTING AND FINISHING ARE BY THE GENERAL CONTRACTOR.
- PIPING AND SPECIALTIES
 - ALL PIPING SHALL CONFORM TO THE REQUIREMENTS OF THE ANSI SAFETY CODE AND BE FREE FROM ALL DEFECTS.
 - PROVIDE SLEEVES FOR PIPING THROUGH MASONRY, FIRE RATED WALLS AND SMOKE PARTITIONS. SLEEVES SHALL BE 22 GAUGE OR HEAVIER STEEL, SCHEDULE 40 IN BEARING WALLS. SIZE SLEEVES TO ACCOMMODATE PIPE INSULATION WHERE APPLICABLE. PROVIDE UL LISTINGS FOR SLEEVE PACKING.
 - PROVIDE PIPE HANGERS TO SUPPORT PIPING FROM BUILDING STRUCTURE TO MAINTAIN REQUIRED SLOPE, PROVIDE FOR EXPANSION AND CONTRACTION, ISOLATE VIBRATION AND RELIEVE EQUIPMENT AND SPECIALTIES FROM STRAIN. SPACE HANGERS ACCORDING TO APPLICABLE CODES AND MANUFACTURER'S RECOMMENDATIONS.
 - IDENTIFY ALL PIPING WITH SEMI-RIGID OR ADHESIVE PLASTIC INDICATION MARKERS, EXCEPT WITH INACCESSIBLE CHASES. MARKERS SHALL SHOW DIRECTION OF FLOW. MARKERS SHALL BE LOCATED NEXT TO EACH VALVE, AT EACH BRANCH, ON BOTH SIDES OF PIPE PASSAGE THROUGH WALLS AND ON ALL HORIZONTAL PIPING AT 20' MAXIMUM INTERVALS.
 - ROUTE ALL PIPING CONCEALED IN WALLS, ABOVE CEILING AND BELOW FLOOR UNLESS OTHERWISE NOTED. RUN PARALLEL WITH BUILDING LINES.
 - PROVIDE DRAIN VALVES & PLUGS AT ALL LOW POINTS SUCH THAT PIPING SYSTEMS CAN BE DRAINED. PROVIDE MANUAL AIR VENT VALVES AT ALL HIGH POINTS IN THE SYSTEM.
 - PROVIDE BACKFLOW PREVENTION DEVICES AT ALL EQUIPMENT AS REQUIRED BY CODE. UNLESS STATED OTHERWISE PROVIDE CHECK VALVE AND SHUT-OFF VALVE BOTH RATED FOR 250' DOWN STREAM OF BACKFLOW PREVENTER ON MAKE UP WATER LINE FOR HYDRONIC HEATING HOT WATER SYSTEMS.
 - PROVIDE DIELECTRIC UNIONS AT ALL JUNCTIONS OF DISSIMILAR METALS.
 - ALL SHUTOFF VALVES, CONTROL VALVES, ETC. ARE FULL LINE SIZE UNLESS OTHERWISE NOTED.
 - INSTALL PIPING ON WARM SIDE OF BUILDING INSULATION. DO NOT INSTALL PIPING WHERE SUBJECT TO FREEZING.
 - ALL PIPING INSULATION SHALL BE CONTINUOUS THROUGH WALLS AND CEILING OPENINGS, SLEEVES AND PIPE HANGERS.
 - TEST ALL PIPING IN ACCORDANCE WITH APPLICABLE CODES, STANDARDS, AND INSPECTOR'S REQUIREMENTS PRIOR TO INSULATION OR ENCLOSING.
 - BALANCE ALL HYDRONIC DEVICES FOR FLOW RATES NOTED ON DRAWINGS. PROVIDE BALANCING REPORT TO ARCHITECT/ENGINEER.
 - UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) ONE AND A HALF (1-1/2") INCH THICK LAYER OF PREFORMED MINERAL FIBER PIPE INSULATION WITH PREFORMED MINERAL FIBER FITTINGS ON ALL DOMESTIC HOT AND COLD WATER PIPING, HYDRONIC HEATING AND CHILLED WATER SUPPLY AND RETURN PIPING, REFRIGERANT PIPING AND CONDENSATE DRAIN PIPING. INCLUDE A FIELD APPLIED FOIL AND PVC JACKET WITH VAPOR RETARDER AS PART OF THE INSULATION ASSEMBLY.
 - UNLESS STATED OTHERWISE ALL UNDERGROUND PIPING SHALL BE INSTALLED WITH POLYETHYLENE ENCASEMENT (PE) FOR CORROSION RESISTANCE.
 - UNLESS STATED OTHERWISE ALL FUEL GAS VENT PIPING TO BE SA-53GB CARBON STEEL. ALL VENT PIPING TO BE PRIMED AND FINISH PAINTED IN A COLOR ACCEPTABLE TO THE OWNER.
- DUCTWORK AND SPECIALTIES
 - ALL DUCTWORK TO BE IN ACCORDANCE WITH S.M.A.C.N.A. "H.V.A.C. DUCT CONSTRUCTION STANDARDS", LATEST EDITION. PRESSURE CLASS "B".
 - ALL DUCTWORK TO BE CONSTRUCTED OF GALVANIZED SHEETMETAL.
 - PROVIDE 45 DEGREE COLLARS TO ALL BRANCH CONNECTIONS. PROVIDE TURNING VANES AT ALL ELBOWS 12"x6" OR LARGER. PROVIDE STANDARD RADIUS ELBOWS AT ALL ELBOWS SMALLER THAN 12"x6".
 - PROVIDE ALL VOLUME DAMPERS REQUIRED TO BALANCE THE SYSTEMS. INSTALL VOLUME DAMPERS AT BRANCH TAKE-OFFS FROM TRUNK.
 - PROVIDE CURTAIN TYPE FIRE DAMPERS WHEREVER DUCT PENETRATES FIRE RATED PARTITIONS. UNITS SHALL PROVIDE NOT LESS THAN 90% FREE AREA. PROVIDE ACCESS DOORS AT ALL FIRE DAMPERS.
 - TEST DUCT SYSTEMS FOR AIR TIGHTNESS AND ABSENCE OF AUDIBLE LEAKS BEFORE ENCLOSURE.
 - BALANCE ALL AIR DEVICES FOR AIR QUANTITIES NOTED ON DRAWINGS. PROVIDE BALANCING REPORT TO ARCHITECT/ENGINEER.
 - FLEXIBLE DUCTS: ALL FLEXIBLE DUCTS SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE.
 - COORDINATE ALL EQUIPMENT CONNECTIONS WITH MANUFACTURER'S CERTIFIED DRAWINGS. COORDINATE AND PROVIDE ALL PIPING TRANSITIONS REQUIRED FOR FINAL EQUIPMENT CONNECTIONS TO FURNISHED EQUIPMENT. FIELD VERIFY AND COORDINATE ALL DUCT AND PIPING DIMENSIONS BEFORE FABRICATION.
 - PROVIDE FIRE DAMPERS IN THE DUCTWORK IN ACCORDANCE WITH ALL APPLICABLE CODES AND THE CONTRACT DOCUMENTS.
 - UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) TWO AND ONE HALF (2-1/2") INCH THICK LAYER OF MINERAL FIBER BLANKET INSULATION ON ALL NEW INDOOR ROUND AND RECTANGULAR SUPPLY AIR, EXHAUST AIR, RETURN AIR, RETURN AIR AND OUTDOOR AIR DUCTWORK. INCLUDE A FIELD APPLIED PAPER AND FOIL JACKET WITH VAPOR RETARDER AS PART OF THE INSULATION ASSEMBLY.
 - UNLESS STATED OTHERWISE IN THE CONTRACT SPECIFICATIONS, PROVIDE A MINIMUM OF ONE (1) TWO (2) INCH THICK LAYER OF MINERAL FIBER BOARD INSULATION ON ALL NEW OUTDOOR ROUND AND RECTANGULAR SUPPLY AIR, EXHAUST AIR, RETURN AIR AND OUTDOOR AIR DUCTWORK. INCLUDE A WEATHERPROOF FIELD APPLIED 22 GAUGE ALUMINUM JACKET WITH VAPOR RETARDER AS PART OF THE INSULATION ASSEMBLY. COORDINATE FINISH COLOR OF EXTERIOR JACKET WITH THE OWNER.
 - UNLESS OTHERWISE NOTED ALL EXPOSED SUPPLY, RETURN AND EXHAUST AIR DUCTWORK SHALL BE PRIMED AND PAINTED. COLOR TO BE DETERMINED BY THE ENGINEER/OWNER.
- EQUIPMENT
 - VERIFY ALL ELECTRICAL CHARACTERISTICS WITH ELECTRICAL CONTRACTOR BEFORE ORDERING EQUIPMENT.
 - ALL MECHANICAL EQUIPMENT AND APPLIANCE INSTALLATIONS SHALL BE IN COMPLIANCE WITH THE LATEST EDITION OF THE INTERNATIONAL MECHANICAL CODE, AS WELL AS WITH MANUFACTURER'S RECOMMENDATIONS.
 - ALL ELECTRICAL POWER WIRING IS BY ELECTRICAL CONTRACTOR. ALL CONTROL WIRING IS BY RESPECTIVE CONTRACTOR.
 - PROVIDE OWNER WITH OPERATION AND MAINTENANCE MANUALS FOR INSTALLED EQUIPMENT. INCLUDE CONTRACTOR'S, SUPPLIER'S AND MANUFACTURER'S NAMES, ADDRESS AND TELEPHONE NUMBERS.
 - SUPPLY STARTERS AND DISCONNECTS WITH EQUIPMENT.
 - PROVIDE CONCRETE PADS FOR FLOOR MOUNTED EQUIPMENT. PADS SHALL BE A MINIMUM 4" HIGH AND SHALL EXTEND 6" BEYOND EQUIPMENT ON ALL SIDES.
 - LABELING: ALL MECHANICAL EQUIPMENT AND APPLIANCES SHALL BEAR LABELING IN COMPLIANCE WITH THE LATEST VERSION OF THE INTERNATIONAL MECHANICAL CODE.
 - UNLESS NOTED OTHERWISE, ALL HYDRONIC SYSTEMS BOILER/ CHILLED WATER SHALL BE PROVIDED WITH A NEW BLADDER TYPE EXPANSION TANK AS REQUIRED. TANK TO BE SIZED FOR EACH SYSTEM BASED UPON TANK MANUFACTURER'S RECOMMENDATIONS.
 - UNLESS OTHERWISE NOTED CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL PROPYLENE GLYCOL ANTI FREEZE FOR ALL HYDRONIC HEATING AND COOLING SYSTEMS. THE CONTRACTOR SHALL SUPPLY A 35% CONCENTRATION OF PROPYLENE GLYCOL IN SOLUTION FOR CHILLED WATER COOLING SYSTEMS AND A 25% CONCENTRATION OF PROPYLENE GLYCOL IN SOLUTION FOR HOT WATER HEATING SYSTEMS. PROPYLENE GLYCOL ANTI FREEZE SHALL BE COMPATIBLE WITH ALL MATERIALS OF THE HYDRONIC SYSTEM (PIPING, VALVES, PUMPS, CHILLER, BOILER, ETC.) AS WELL AS ALL TERMINAL EQUIPMENT.

- AUTOMATIC TEMPERATURE AND SAFETY CONTROLS
 - PROVIDE ALL WIRING, RELAYS, CONTACTS, TRANSFORMERS, ETC. REQUIRED TO DELIVER A COMPLETE OPERABLE SYSTEM.
 - THERMOSTATS SHALL BE 24 HOUR/7 DAY PROGRAMMABLE WITH FAN "OFF/ON/AUTO" AND SYSTEM "HEAT/COOL/AUTO/OFF" SWITCHES. VERIFY OPERATION OF ALL FUNCTIONS.
- FIRE PROTECTION
 - THE QUANTITY AND LOCATION OF SPRINKLERS SHOWN ON THE DRAWINGS ARE APPROXIMATE AND INTENDED FOR SCHEMATIC PURPOSES ONLY. THE FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING, INSTALLING AND COMMISSIONING ALL NECESSARY SPRINKLERS, PIPE, EQUIPMENT AND APPURTENANCES NECESSARY, IN FULL ACCORDANCE WITH THE NFPA AND APPROVED BY THE ENGINEER AND ALL AUTHORITIES HAVING JURISDICTION.
 - THE FIRE PROTECTION CONTRACTOR SHALL PROVIDE DETAILED DESIGN DRAWINGS, HYDRAULIC CALCULATIONS, PIPING, FITTINGS, SPRINKLERS, ALARM AND MONITORING DEVICES, SIGNAGE AND APPURTENANCES COMPLETE AND IN FULL ACCORDANCE WITH ALL APPLICABLE BUILDING CODES AND NFPA 13 & 14. ALL WIRING OF DEVICES SHALL BE DONE BY ELECTRICAL CONTRACTOR.
 - ALL SPRINKLER HEADS SHALL BE LOCATED AT THE CENTER POINT OF ALL ACOUSTICAL CEILING TILES.
- ALL EXISTING PLUMBING, HVAC AND ELECTRICAL EQUIPMENT AND MATERIALS THAT ARE EITHER EXPOSED OR CONCEALED AND THAT INTERFERE WITH ALTERED EXISTING BUILDING ARRANGEMENTS AND NEW SYSTEMS SHALL BE REMOVED, RELOCATED, REROUTED, OR ABANDONED. DRAWINGS GENERALLY INDICATE MAJOR ITEMS OF EXISTING MATERIALS AND EQUIPMENT THAT ARE AFFECTED. IT IS NOT POSSIBLE TO INDICATE ALL RELATED ACCESSORIES, SPECIALTIES AND OTHER MINOR ITEMS; HOWEVER, THEIR REMOVAL, RELOCATION, REROUTING AND ABANDONMENT SHALL ALSO BE INCLUDED IN THIS WORK.
- EXISTING CONCEALED PLUMBING, HVAC AND ELECTRICAL EQUIPMENT AND MATERIALS THAT ARE TO REMAIN BUT BECOME EXPOSED DUE TO RENOVATION WORK, SHALL BE RELOCATED AND RECONNECTED AS PART OF THIS WORK.
- PLUMBING DRAWINGS ARE DIAGRAMMATIC. ALL DEVICES & FITTINGS MAY NOT BE SHOWN ON THE DRAWINGS FOR CLARITY. PROVIDE CLEANOUTS NEAR THE BASE OF ALL VERTICAL WASTE & STORM WATER STACKS IN ACCORDANCE WITH THE LATEST EDITION OF THE NATIONAL STANDARD PLUMBING CODE.
- GUARDS SHALL BE PROVIDED WHERE APPLIANCES, EQUIPMENT, FANS OR OTHER COMPONENTS THAT REQUIRE SERVICE AND ROOF HATCH OPENINGS ARE LOCATED WITHIN 12 FEET OF A ROOF EDGE OR OPEN SIDE OF A WALKING SURFACE AND SUCH EDGE OR OPEN SIDE IS LOCATED MORE THAN 30 INCHES ABOVE THE FLOOR, ROOF OR GRADE BELOW. THE GUARD SHALL EXTEND NOT LESS THAN 30 INCHES BEYOND EACH END OF SUCH APPLIANCES, EQUIPMENT, FANS, COMPONENTS AND ROOF HATCH OPENINGS AND THE TOP OF THE GUARD SHALL BE LOCATED NOT LESS THAN 42 INCHES ABOVE THE ELEVATED SURFACE ADJACENT TO THE GUARD. THE GUARD SHALL BE CONSTRUCTED SO AS TO PREVENT THE PASSAGE OF A 21 INCH-DIAMETER SPHERE AND SHALL COMPLY WITH THE LOADING REQUIREMENTS FOR GUARDS SPECIFIED IN THE LATEST EDITION OF THE INTERNATIONAL BUILDING CODE.
- PROVIDE FOR ALL MECHANICAL EQUIPMENT - FAN AND MOTOR PULLEYS, SHEAVES, BELTS AND LABOR REQUIRED TO BALANCE THE NEW AND EXISTING MECHANICAL EQUIPMENT TO THE SPECIFIED SUPPLY, RETURN, EXHAUST AND OUTSIDE AIR FLOWS SHOWN ON THE CONTRACT DOCUMENTS AT NO ADDITIONAL COST TO THE OWNER. THE TESTING, ADJUSTING AND BALANCING CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ALL REQUIRED PULLEYS, SHEAVES AND BELTS EVEN IF THEY ARE PROVIDED WITH THE EQUIPMENT BY THE MANUFACTURER.
- UNLESS OTHERWISE NOTED CONTRACTOR IS RESPONSIBLE TO FURNISH AND INSTALL ALL CONNECTION/ TRANSITION DUCTS BETWEEN NEW HVAC EQUIPMENT UNITS VENTILATORS, BLOWER COILS, FAN COILS, AIR HANDLERS, ETC.) AND NEW OR EXISTING OUTSIDE AIR LOUVERS. CONTRACTOR IS ALSO RESPONSIBLE FOR REINFORCING ANY OUTSIDE AIR LOUVER OPENING THAT IS CREATED OR ENLARGED TO ACCOMMODATE THE NEW INSTALLATION.
- UNLESS SPECIFICALLY DIRECTED OTHERWISE THE CONTRACTOR SHALL SUBMIT PRE-DEMOLITION/ PRE-CONSTRUCTION VIDEOS AND/ OR PHOTOGRAPHS OF THE EXISTING CONDITIONS IN THE PROPOSED AREA OF WORK TO THE ENGINEER FOR REVIEW PRIOR TO START OF DEMOLITION/ CONSTRUCTION WORK.

MECHANICAL ABBREVIATIONS

AD	ACCESS DOOR	LRG	LINEAR RETURN GRILLE
ADJ.	ACCESSORY	LSR	LINEAR SUPPLY REGISTER
AFT	Above FINISHED FLOOR	MD	MOTORIZED DAMPER
AHU	AIR HANDLER UNIT	MH	MANHOLE
AP	ACCESS PANEL	MSB	MOP SERVICE BASIN
B	BOILER	MJA	MAKE-UP AIR UNIT
BFF	BELOW FINISHED FLOOR	MV	MIXING VALVE (THERMOSTATIC)
BFP	BACKFLOW PREVENTOR	NC	NORMALLY CLOSED
BOD	BOTTOM OF DUCT	NO	NORMALLY OPEN
BOL	BOTTOM OF LOUVER	NTS	NOT TO SCALE
C	CONDENSATE	OA	OUTSIDE AIR
CD	CEILING DIFFUSER	P	PUMP
CEG	CEILING EXHAUST GRILLE	RA	RETURN AIR
OER	ROOF EXHAUST REGISTER	RD	ROOF DRAIN
CFH	CUBIC FEET PER HOUR	RH	RADIANT HEATER
CFM	CUBIC FEET PER MINUTE	RPBP	REDUCED PRESSURE BACKFLOW PREVENTOR
CI	CAST IRON	RWC	RAIN WATER CONDUCTOR
CO	CLEANOUT	S	SNK/SANITARY PIPING
COG	CLEANOUT ON GRADE	S-02'	SLOPE
COND	CONDENSATE PIPING	SA	SUPPLY AIR
CONT	CONTINUED	SD	SPLITTER DAMPER
CRG	CEILING RETURN GRILLE	SH	SHOWER
CR	CEILING RETURN REGISTER	SP	SPRINKLER PIPING
CSV	CIRCUIT SETTER VALVE	SS	SOIL STACK
CT	COOLING TOWER	ST	STORM PIPING
CTR	COOLING TOWER RETURN	STM	STEAM PIPING
CTS	COOLING TOWER SUPPLY	SV	STACK VENT
CU	CONDENSING UNIT	SW	SAFEGASTE
CUH	CABINET UNIT HEATER	T	TUB
CWS	COLD WATER SUPPLY	TAG	TRANSFER AIR GRILLE
CWS/R	CONDENSER WATER SUPPLY/RETURN	TOP	TOP OF DUCT
DF	DRINKING FOUNTAIN	TP	TRAP PRIMER
DFU	DRAINAGE FIXTURE UNITS	TR	TRANSITION
DN	DOWN	TWR	TEMPERED WATER RETURN
EA	EXHAUST AIR	TWS	TEMPERED WATER SUPPLY
EBBH	ELECTRIC BASEBOARD HEATER	TYP	TYPICAL
EF	EXHAUST FAN	UH	UNIT HEATER
EWC	ELECTRIC WATER COOLER	UR	URINAL
EWH	ELECTRIC WATER HEATER	V	VENT PIPING
EX	EXISTING	VAV	VARIABLE AIR VOLUME
FC	FLEXIBLE CONNECTION/FAN COIL	VD	VOLUME DAMPER
FOO	FLOOR CLEANOUT	VF	VERIFY IN FIELD
FD	FLOOR DRAIN	VS	VENT STACK
FRG	FLOOR RETURN GRILLE	VTR	VENT THRU ROOF
FR	FLOOR RETURN REGISTER	WC	WATER CLOSET
G	GAS PIPING	WCO	WALL CLEANOUT
GV	GRAVITY VENTILATOR	WEG	WALL EXHAUST GRILLE
HB	HOSE BIBB	WER	WALL EXHAUST REGISTER
HD	HAND DAMPER	WH	WATER HAMMER ARRESTOR
HP	HEAT PUMP	WHY	WALL HYDRANT
HW	HOT WATER	WMS	WALL WASH SCREEN
HWC	HANDICAPPED WATER CLOSET	WRG	WALL RETURN GRILLE
HWG	HOT WATER GENERATOR	WRR	WALL RETURN REGISTER
HWH	HOT WATER HEATER	WSFU	WALL SUPPLY FIXTURE UNIT
HWR	HOT WATER RETURN	WSG	WALL SUPPLY GRILLE
HWS	HOT WATER SUPPLY	WSR	WALL SUPPLY REGISTER
HX	HEAT EXCHANGER		
L	LOUVER		
LAV	LAVATORY		
LBG	LINEAR BAR GRILLE		
LD	LINEAR DIFFUSER		
LF	LINEAR FEET		

PROPOSED MECHANICAL SYMBOLS

	EQUIPMENT MARK (TYPE FC, NUMBER 1)		SUCTION DIFFUSER		DOMESTIC HOT WATER RETURN PIPE
	SECTION INDICATOR (SECTION B2 ON DWG. --)		PIPE ANCHOR		SANITARY SEWER
	DETAIL INDICATOR (DETAIL B2 ON DWG. --)		PIPE GUIDE		SANITARY SEWER BELOW GRADE OR SLAB
	KEY NOTE INDICATOR (REFERS TO NOTES ON SAME SHEET)		UNION		STORM SEWER
	REVISIONS INDICATOR		VACUUM BREAKER		STORM SEWER BELOW GRADE OR SLAB
	PIPE RISER (RISER HWS-11 ON DWG. --)		CAP AND VALVED		PLUMBING VENT
	DUCT RISER (RISER E-1 ON DWG. --)		CONCENTRIC REDUCER		DRAIN PIPE
	DIFFUSER/REGISTER/GRILLE MARK (TYPE A, 150 CFM, DIRECTION) DOOR UNDERCUT		ECCENTRIC REDUCER STRAIGHT INVERT		FIRE PROTECTION PIPE
	TRANSFER AIR		ECCENTRIC REDUCER STRAIGHT CROWN		CHEMICAL FEED PIPE
	DIAMETER		METER (SEE CONNECTED PIPING FOR TYPE OF SERVICE)		EXPANSION TANK PIPE
	CONNECTION TO EXISTING		CHAIN OPERATOR		HEATING HOT WATER SUPPLY PIPE
	POINT OF DISCONNECTION		MOTOR OPERATOR		HEATING HOT WATER RETURN PIPE
	FLAT OVAL DUCT DIMENSION		FLOAT		CHILLED WATER SUPPLY PIPE
	INSIDE DUCT DIMENSION (IN INCHES, FIRST DIMENSION IS AS VIEWED)		PUMP		CHILLED WATER RETURN PIPE
	SOUND LINED DUCTWORK		CLEANOUT		CONDENSER WATER SUPPLY PIPE
	SUPPLY DUCT TURNED UP		FLOOR DRAIN WITH P-TRAP		CONDENSER WATER RETURN PIPE
	SUPPLY DUCT TURNED DOWN		FUNNEL DRAIN		CONDENSATE WATER PIPING
	RETURN/EXHAUST DUCT TURNED UP		TRAP		COMPRESSED AIR PIPE
	RETURN/EXHAUST DUCT TURNED DOWN		HOSE BIBB		VACUUM PIPE
	SQUARE ELBOW (WITH TURNING VANES)		FROSTPROOF HOSE BIBB		NATURAL GAS PIPING
	ROUND ELBOW		WATER HAMMER ARRESTOR		ACID WASTE PIPING
	SPIN-IN WITH VOLUME DAMPER FOR ROUND DUCT		PITCH PIPE DOWN IN DIRECTION OF ARROW		FUEL OIL PIPING
	TAKE OFF WITH VOLUME DAMPER FOR RECTANGULAR DUCT		TEE TURN UP		DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER WITH GATE VALVES
	OPEN END DUCT WITH WMS		TEE TURNED DOWN		REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH GATE VALVES
	FLEXIBLE DUCTWORK (SINGLE LINE)		PIPE TURNED UP		REDUCED PRESSURE ZONE BACKFLOW PREVENTER WITH BALL VALVES
	FLEXIBLE DUCTWORK (DOUBLE LINE)		PIPE TURNED DOWN		DOUBLE CHECK VALVE TYPE BACKFLOW PREVENTER WITH BALL VALVES
	SUPPLY DIFFUSER		KEY SWITCH		
	SUPPLY AIR DIFFUSER WITH 3 DIRECTION DISCHARGE (BLACK TRIANGLE INDICATED BLANK OFF)		BUSHING		
	RETURN/EXHAUST REGISTER OR GRILLE		FLEXIBLE PIPE CONNECTION		
	SLOT DIFFUSER WITH PLENUMS		MANUAL AIR VENT		
	EXHAUST FAN		CONCEALED SPRINKLER HEAD		
	ELECTRIC BASEBOARD		PENDANT SPRINKLER HEAD		
	VOLUME DAMPER (MANUAL)		UPRIGHT SPRINKLER HEAD		
	BACKDRAFT DAMPER		SIDEWALL SPRINKLER HEAD		
	FIRE DAMPER		REFRIGERANT SUCTION ROUTE		
	MOTORIZED DAMPER		REFRIGERANT LIQUID ROUTE		
	MOTORIZED SMOKE/FIRE DAMPER		DOMESTIC COLD WATER PIPE		
	CARBON MONOXIDE SENSOR		BLIND FLANGE END CONNECTION		
	THERMOSTAT		LOCK SHIELD GATE VALVE		
	HUMIDISTAT		GLOBE VALVE		
	SENSOR		ANGLE GLOBE VALVE		
	DUCT DETECTOR		PLUG VALVE		
	BALL VALVE		OS & Y GATE VALVE		
	BUTTERFLY VALVE		2-WAY CONTROL VALVE		
	GATE VALVE		3-WAY CONTROL VALVE		
	EMERGENCY BOILER SHUTOFF		PRESSURE RELIEF VALVE		
	SOUND ATTENUATOR		TEMPERATURE & PRESSURE RELIEF VALVE		
	PRESSURE/TEMPERATURE TEST PLUG		CALIBRATED BALANCE VALVE		
	GAUGE/COCK		AUTOMATIC FLOW CONTROL VALVE		
	THERMOMETER		SWING CHECK VALVE		
	PRESSURE TEMPERATURE TAP		SPRING LOADED CHECK VALVE		
	EXISTING HYDRONIC CONTROL VALVE		ALARM CHECK VALVE		
	HOSE BIBB DRAIN VALVE		COMBINATION CHECK/BALANCE/ SHUT OFF VALVE		
	INSULATED PIPE		NEEDLE VALVE		
	VERTICAL VALVE		PRESSURE REGULATOR		
	CIRCUIT SETTER		BACK PRESSURE REGULATOR		
	FLOW METER (MAGNETIC)		DIAPHRAGM VALVE		
	FLOW METER (VENTURI)		SOLENOID VALVE		
	BALL JOINT		FLOW SWITCH		
			PRESSURE SWITCH		
			VALVE MONITOR SWITCH		
			STRAINER		
			BLOW-OFF STRAINER		
			DOMESTIC HOT WATER PIPE		



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 DATE: 5-20-2024
CHRISTOPHER A. SAPONARO
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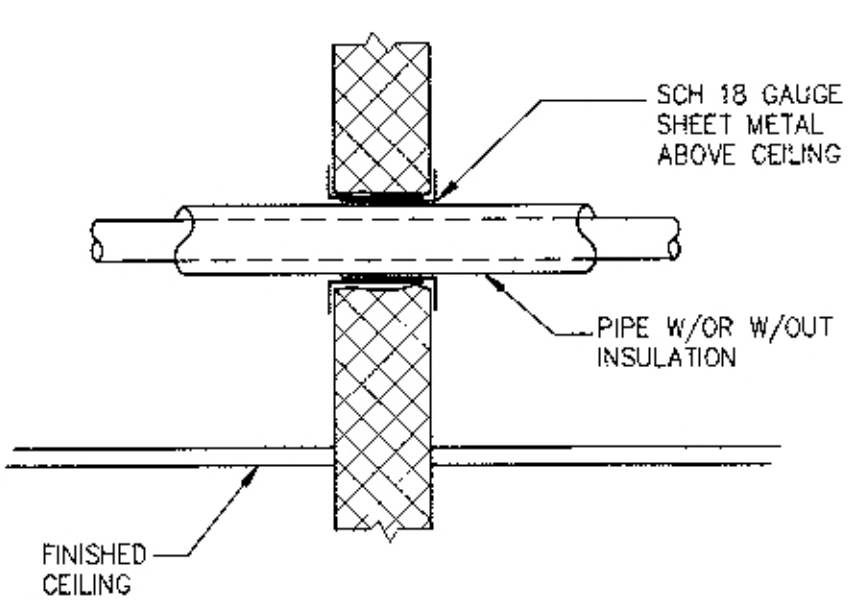
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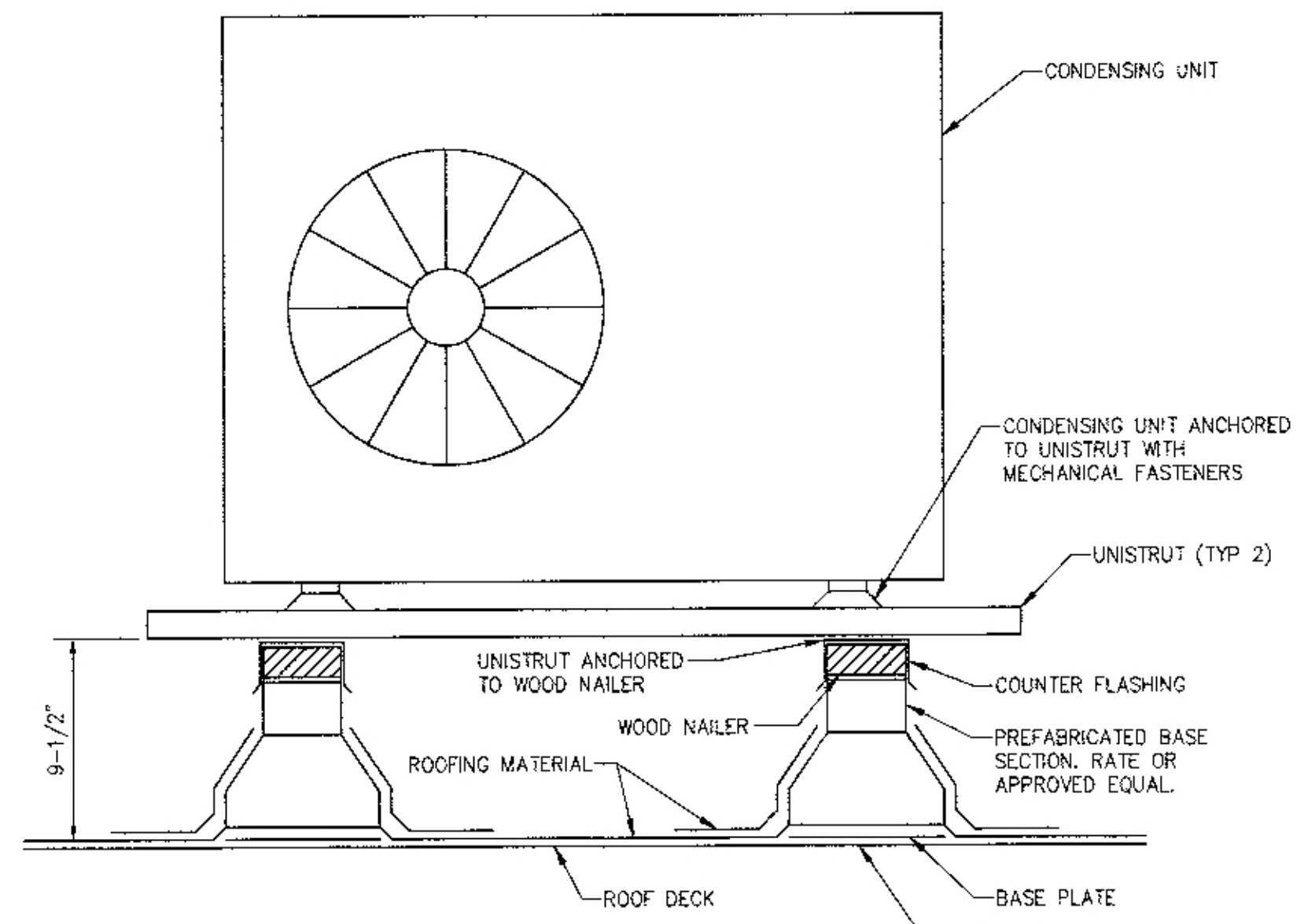
MECHANICAL DETAILS
 CITY OF LINWOOD BOARD OF EDUCATION
 VARIOUS ROOM MODIFICATIONS
 SEAVIEW ELEMENTARY SCHOOL
 CITY OF LINWOOD ATLANTIC COUNTY NEW JERSEY

DESIGNED BY: B.K.	CHECKED BY: B.K.	SCALE: AS NOTED
DATE: 05/20/24	SHEET NO.: M-3.1	
JOB NO.: 01-14-C-019		

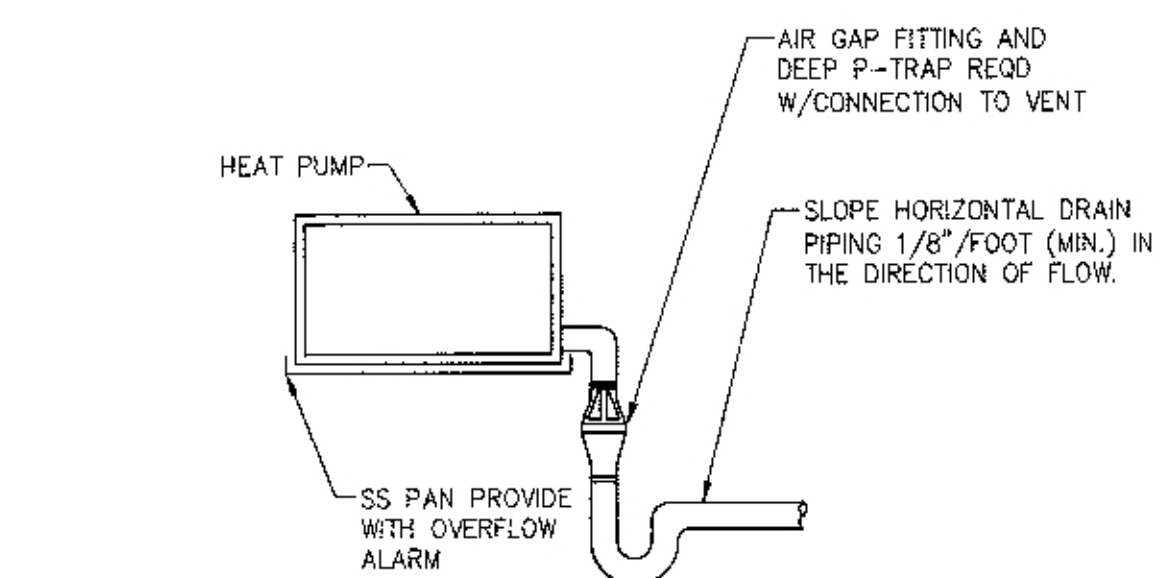


NOTES:
 1 TYP FOR NON-INSULATED PIPE AND CONDUIT
 2 TYP FOR MASONRY OR CONCRETE WALL
 3 FIRE RATED WALLS MUST BE SEALED W/ APPROPRIATE FIRE RETARDANT CAULKING

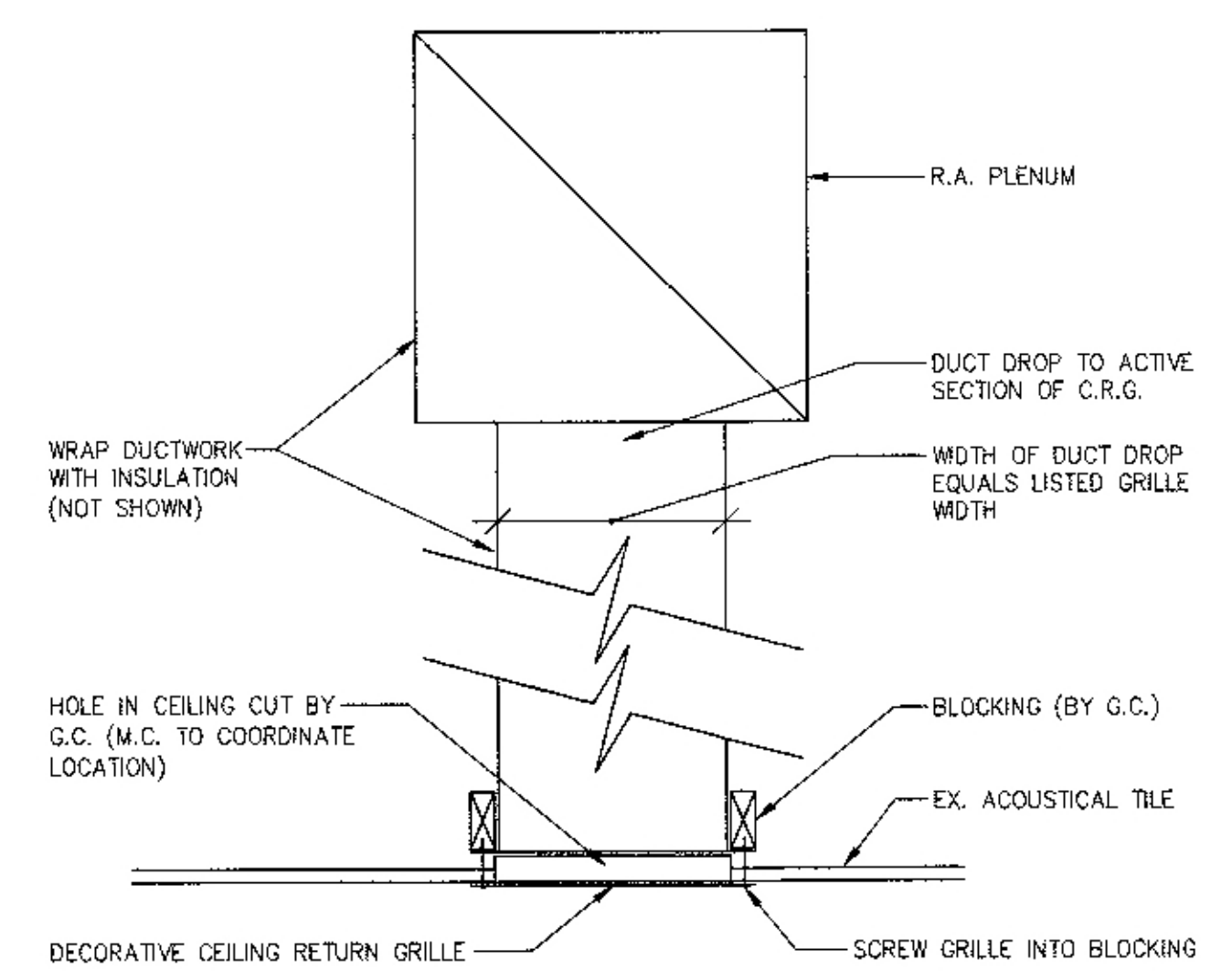
PIPE PENETRATION THRU WALL ABOVE CEILING DETAIL
 N.T.S.



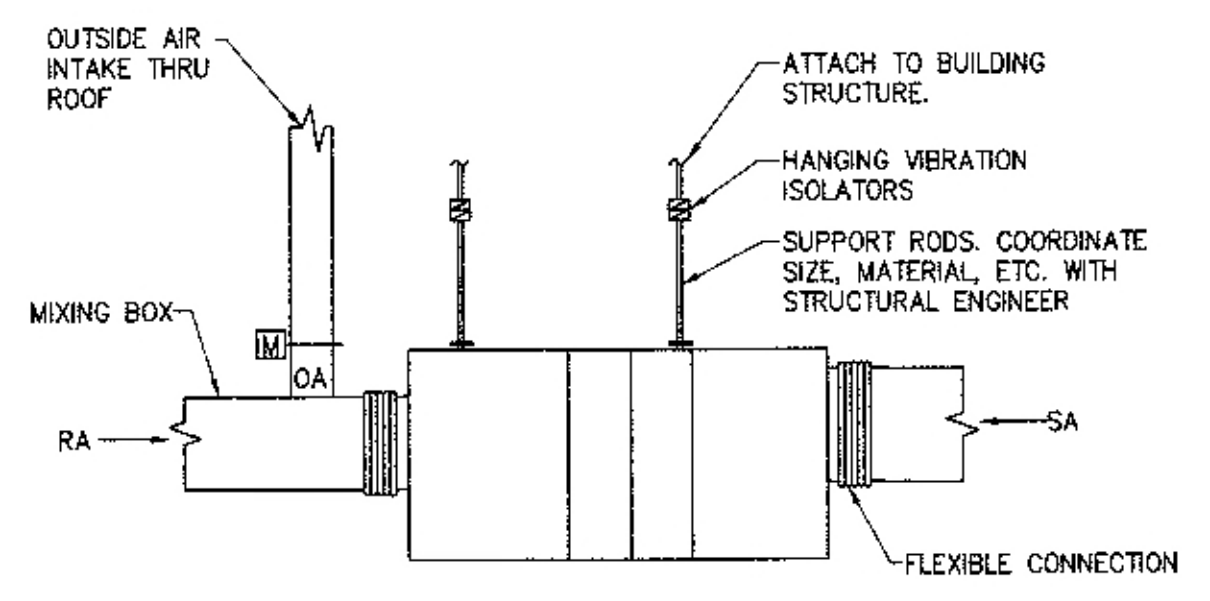
CONDENSING UNIT SUPPORT DETAIL
 N.T.S.



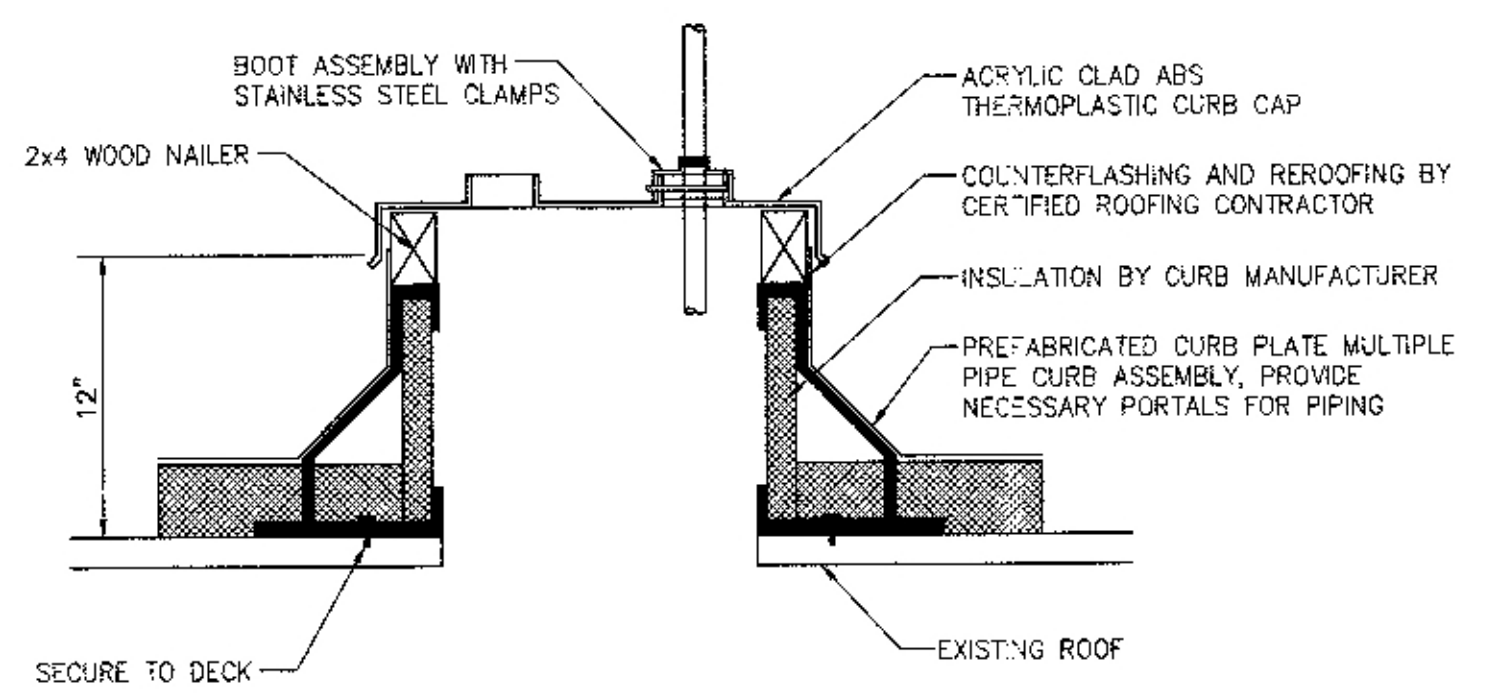
HEAT PUMP CONDENSATE DRAIN
 N.T.S.



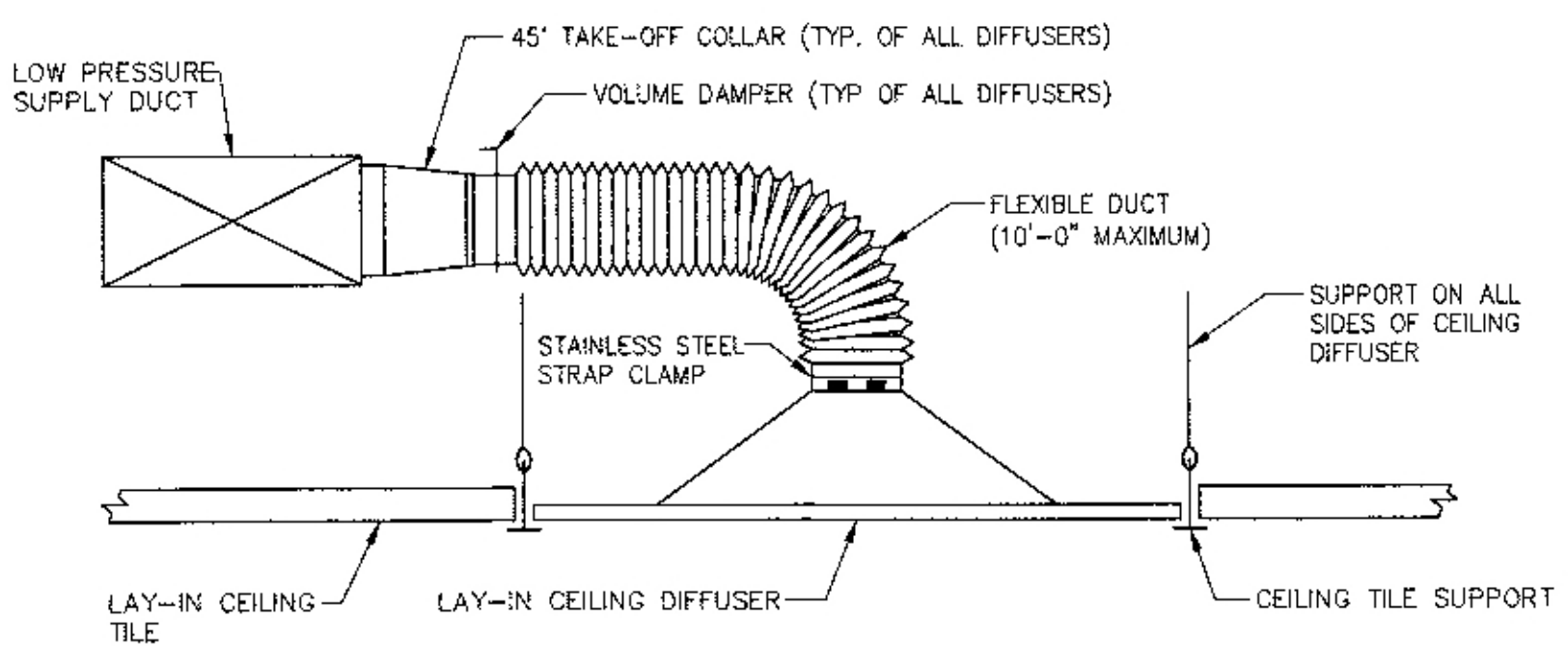
CEILING RETURN GRILLE DETAIL
 N.T.S.



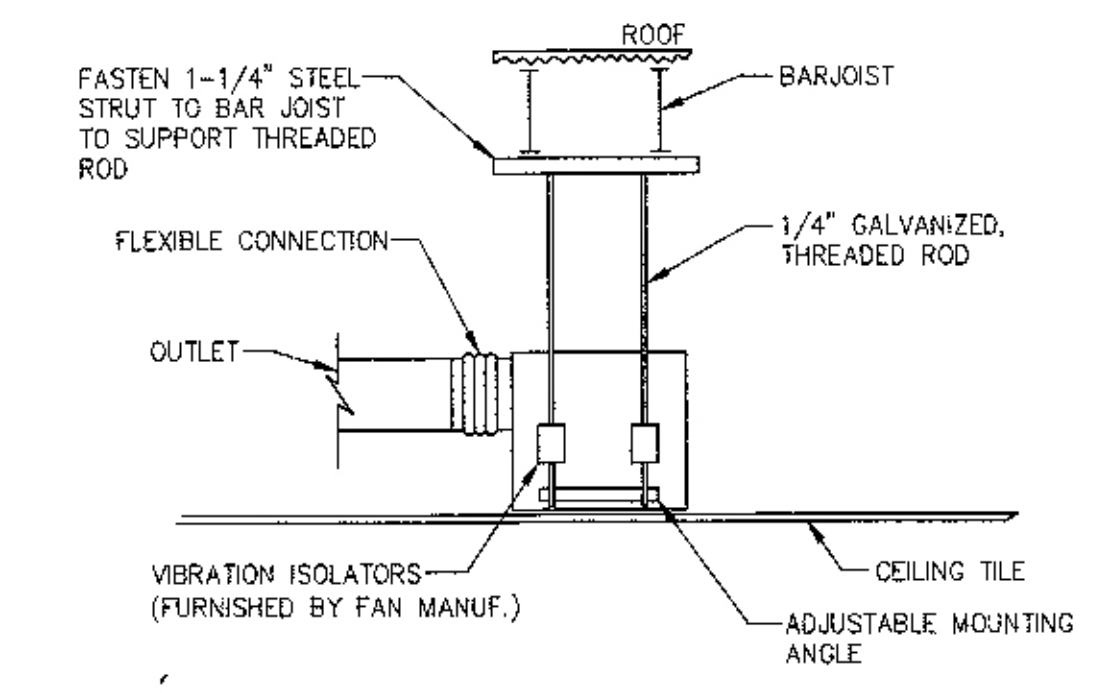
SUSPENDED AHU DETAIL
 N.T.S.
 (CONTRACTOR TO PROVIDE DUCT TRANSITIONS AS REQUIRED)



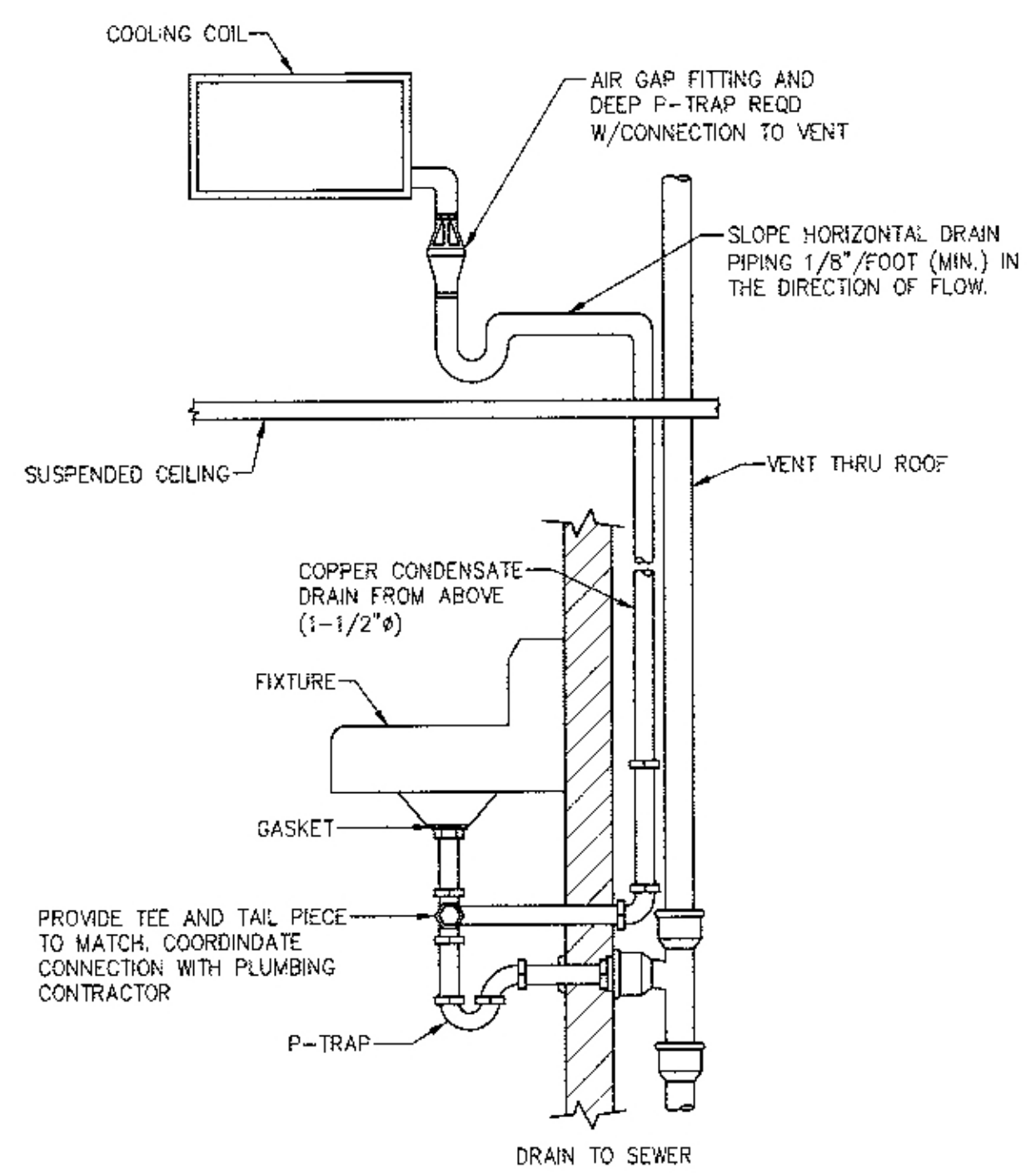
BOOT TYPE PIPE PENETRATION
 N.T.S.
 (SIMILAR FOR DUCT PENETRATIONS)



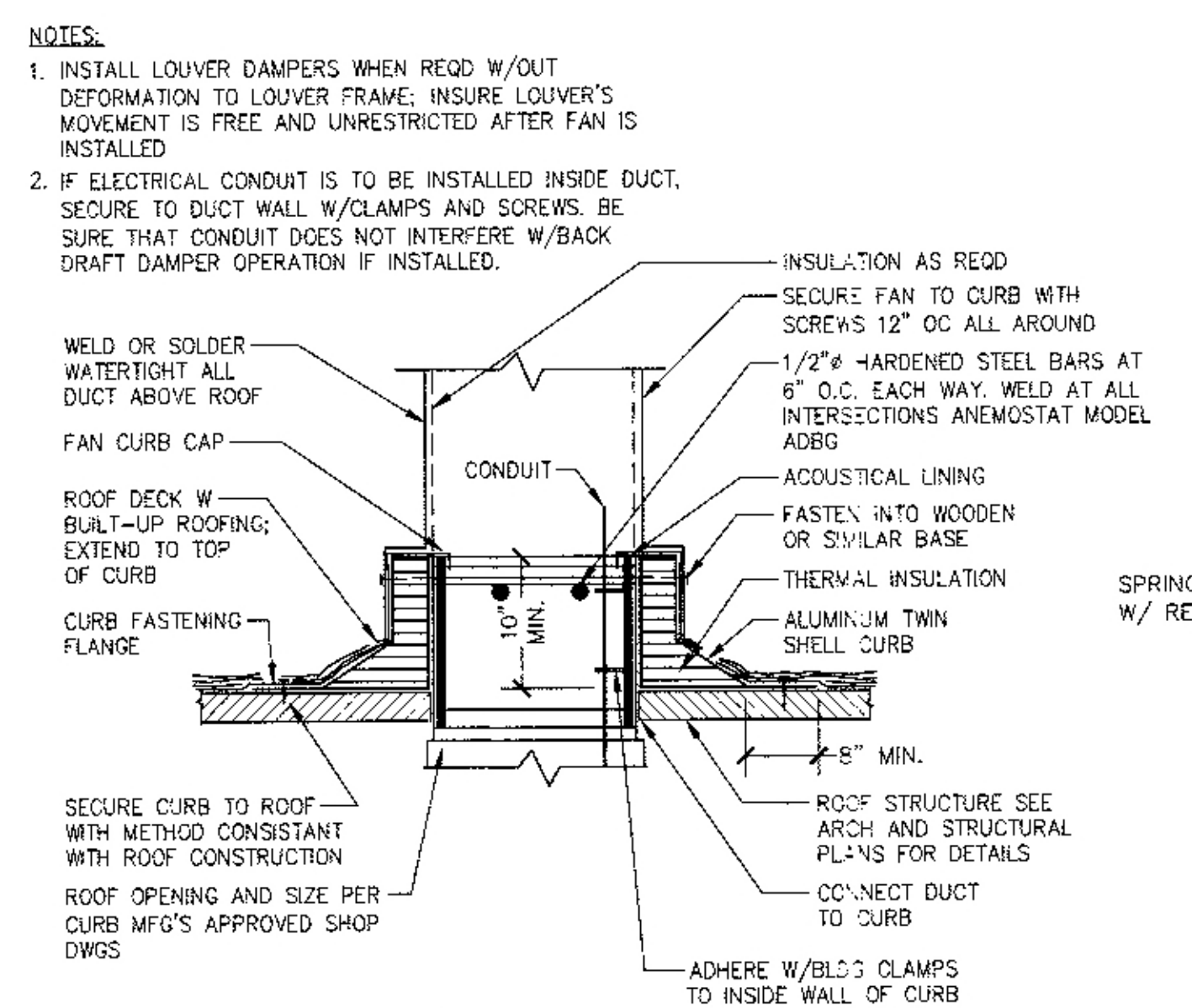
FLEXIBLE BRANCH DUCT WORK DETAIL
 N.T.S.



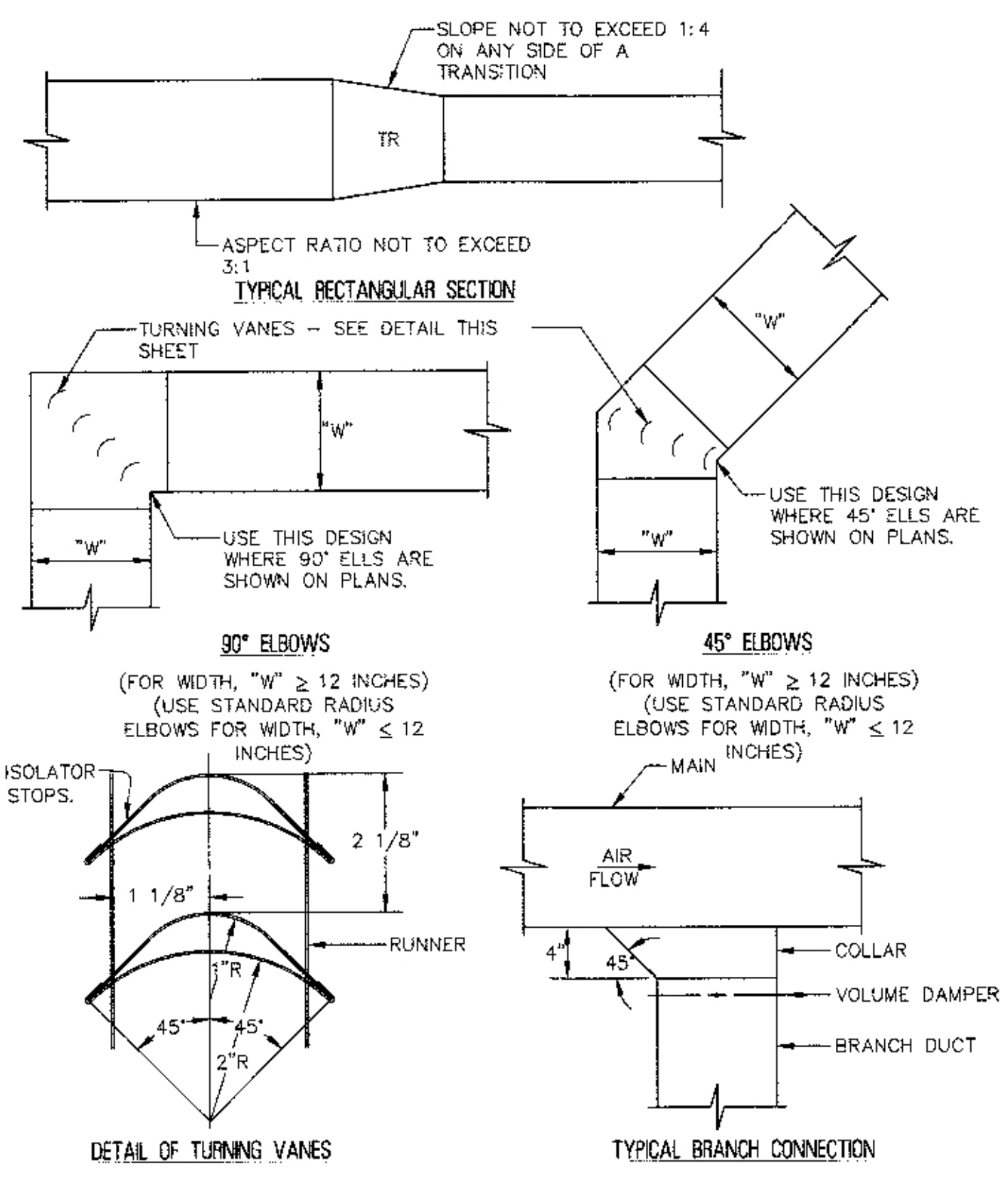
CEILING FAN DETAIL
 N.T.S.



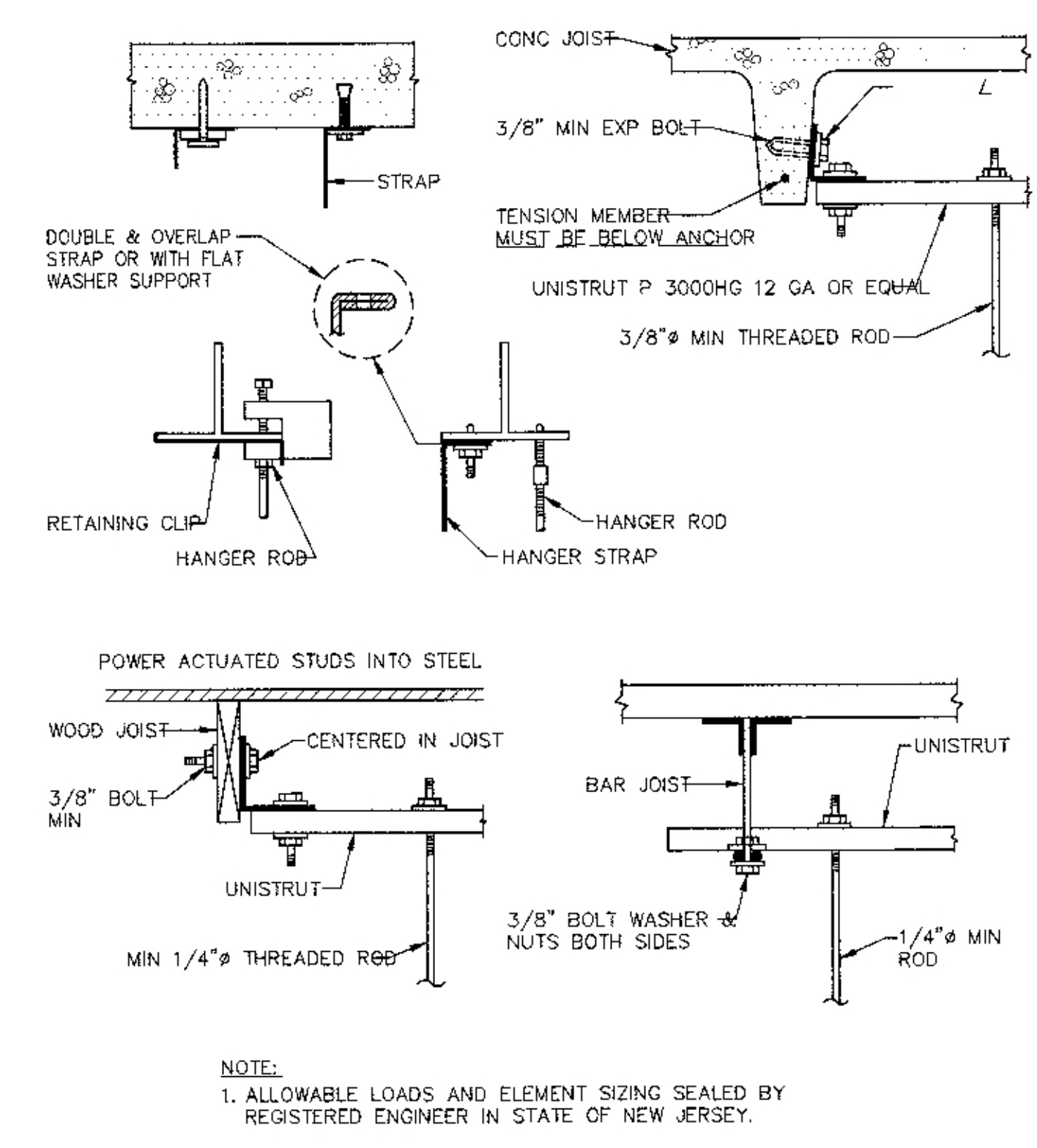
CONDENSATE DRAIN TO SINK DRAIN
 N.T.S.



DUCT PENETRATION OR CURB INSTALLATION THRU MEMBRANE ROOF DETAIL
 N.T.S.



DETAILS OF DUCT LAYOUT
 N.T.S.

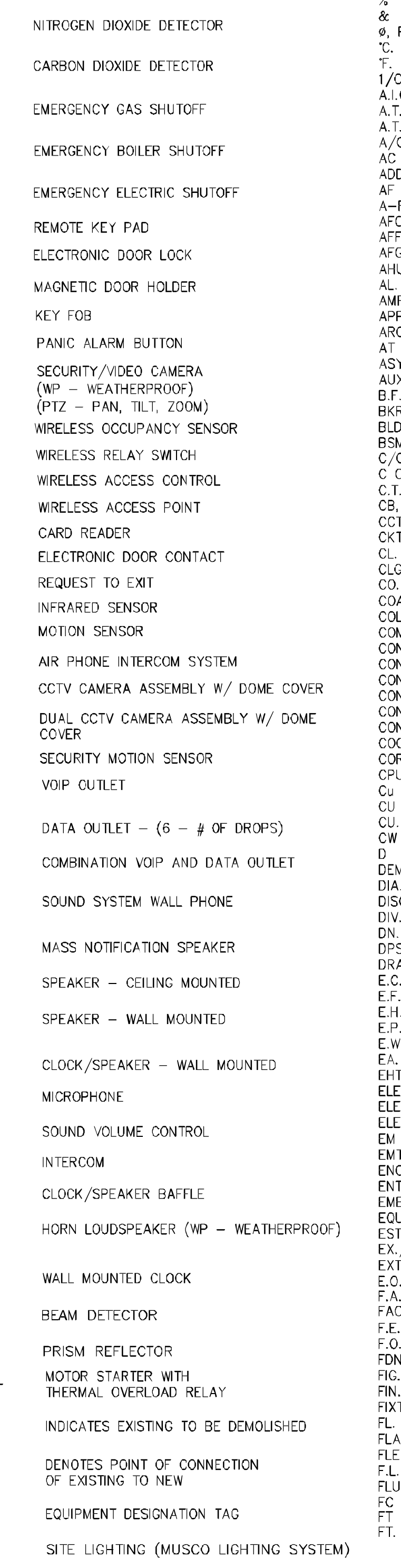
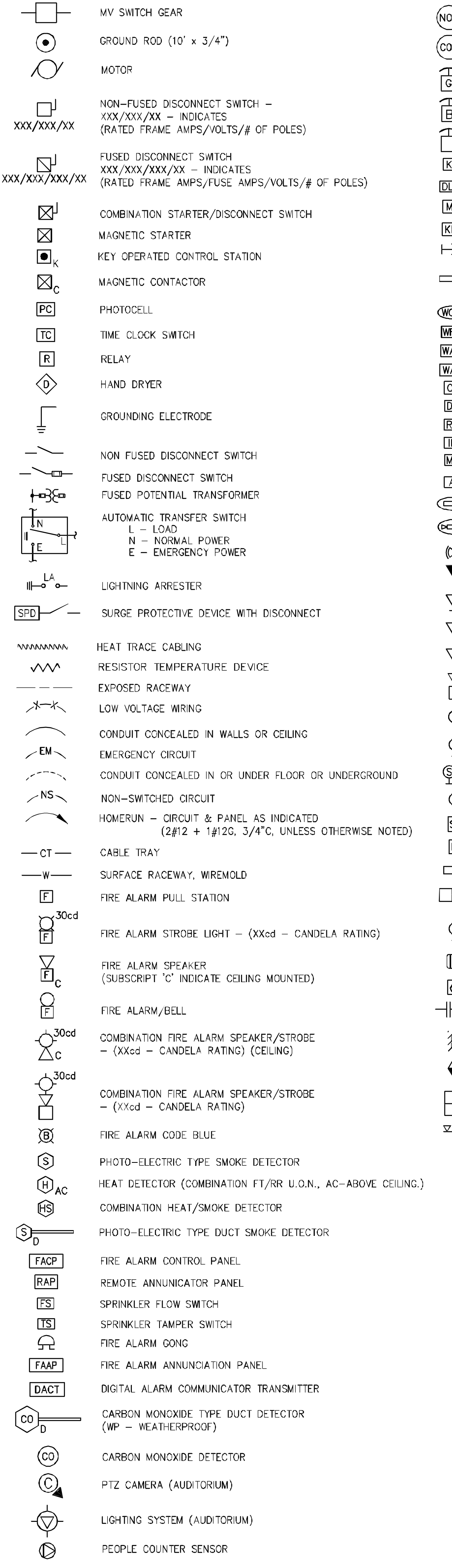
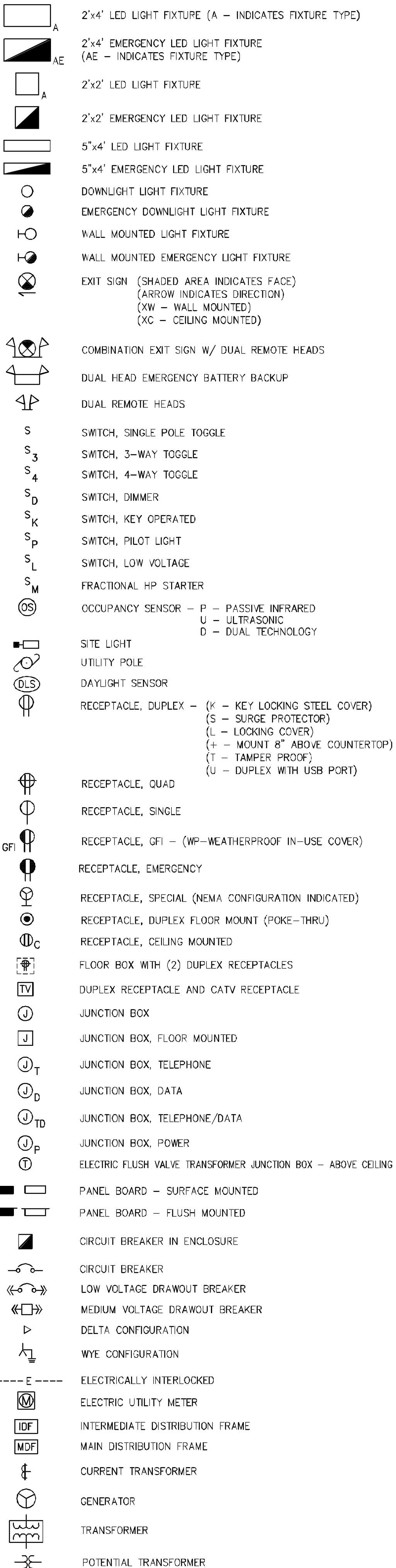


UPPER ATTACHEMENT AND JOIST HANGERS FOR DUCTWORK DETAIL
 N.T.S.

NOTE:
 1. ALLOWABLE LOADS AND ELEMENT SIZING SEALED BY REGISTERED ENGINEER IN STATE OF NEW JERSEY.

ELECTRICAL SYMBOLS

(ALL SYMBOLS MAY NOT BE USED ON THIS PROJECT)



ABBREVIATIONS

%	PERCENT	FU.	FUSE/FUSED
&	AND	G.C.	GENERAL CONTRACTOR
9, PH	PHASE	GA.	GAGE/GAUGE
° C.	CENTIGRADE DEGREES	SN	SOLID NEUTRAL
° F.	FAHRENHEIT DEGREES	GENI	GENERATOR
1/C	SINGLE CONDUCTOR	GF	GROUND FAULT CIRCUIT INTERRUPTER
A.I.C.	AMPERES INTERRUPTING CAPACITY	GRD	GROUND
A.T.C.	AUTOMATIC TEMPERATURE CONTROL	GRD, GND, G	GROUNDING RIGID STEEL
A.T.S.	AUTOMATIC TRANSFER SWITCH	G.R.S.	GENERATOR TRANSFER DEVICE
A/C	AIR CONDITION	GID	HIGH INTENSITY DISCHARGE
AC	ALTERNATING CURRENT	H.O.A.	HAND OFF AUTO
ADDL.	ADDITIONAL	H.P.S.	HIGH PRESSURE SODIUM
AF	AMPERE FRAME	HEX.	HEXAGON
A-F	AMPERE FUSE	HH	HANDHOLE
AFCL	ARC FAULT CIRCUIT INTERRUPTER	HORIZ.	HORIZONTAL
AFF/A.F.F.	ABOVE FINISHED FLOOR	H.P./HP.	HORSEPOWER
AFG/A.F.G.	ABOVE FINISHED GRADE	HPF	HIGH POWER FACTOR
AHU	AIR HANDLING UNIT	HT	HEIGHT
AL	ALUMINUM	HWH	HOT WATER HEATER
AMP, A.	AMPERE	HZ	HERTZ
APPROX.	APPROXIMATE	IMC	INTERMEDIATE CONDUIT
ARCH.	ARCHITECTURAL	INC.	INCANDESCENT
AT	AMPERE TRIP	INSUL.	INSULATION/INSULATED
AS.	ASYMMETRICAL	ISOL.	ISOLATED
AUX.	AUXILIARY	ISP	INTERNET SERVICE PROVIDER
B.F.C.	BELOW FINISHED CEILING	IS	INTRINSICALLY SAFE
BKR	BREAKER	IT	INFORMATION TECHNOLOGY
BLDG.	BUILDING	IAP	INTRUSION ALARM PANEL
BSMT.	BASEMENT	IAPK	INTRUSION ALARM KEYPAD
C/C	CONDUIT	J.B.	JUNCTION BOX
C OF U/CFU	COEFFICIENT OF UTILIZATION	KAIC	THOUSAND AMPERES INTERRUPTING CAPACITY
C.T. CT	CURRENT TRANSFORMER	KVAR	KILOVOLT AMPERE
CB, CIR. BKR., C/B	CIRCUIT BREAKER	KW	KILOWATT
CKT., CIR. CIR.	CLOSED CIRCUIT TELEVISION CIRCUIT	KWH	KILOWATT HOUR
CL.	CLOSET	KHZ	KILOHERTZ
CLC	CEILING	KV	KILOVOLT
CO./Co.	COMPANY	kVA	KILOVOLT-AMPERE
COAX	COAXIAL CABLE	LC	LENGTH
COL.	COLUMN	LF	LINEAR FEET
COMP.	COMPLETE	LG.	LONG
CONC.	CONCRETE	LRA	LOCKED ROTOR AMPERES
CONDR.	CONDUCTOR	LT.	LIGHT
CONN.	CONNECTED CONNECTOR	LTO.	LIGHTING
CONST.	CONSTRUCTION	M.L.O.	MAIN LUGS ONLY
CONT.	CONTINUATION	M/C	MULTI-CONDUCTOR
CONTR.	CONTRACTOR	MANUF., MFR.	MANUFACTURER
COORD.	COORDINATE	MAX.	MAXIMUM
CORR.	CORRIDOR	M.B./MB	MAIN BREAKER
CPU	CENTRAL PROCESSING UNIT	M.C.B./MCB	MAIN CIRCUIT BREAKER
Cu	COPPER	MCC	MOTOR CONTROL CENTER
CU	CONDENSING UNIT	MCM	THOUSAND CIRCULAR MILLS
CU. FT.	CUBIC FEET	MDS	MAIN DISTRIBUTION SWITCHBOARD
CW	CLOCKWISE	MDP	MAIN DISTRIBUTION PANEL
DEM	DEPTH	MECH.	MECHANICAL
DIA	DIAMETER	MET.	METAL
DISC.	DISCONNECT SWITCH	MF	MAINTENANCE FACTOR
DIV.	DIVISION	MG	MOTOR GENERATOR
DN.	DOWN	MIN.	MINIMUM
DPST	DOUBLE POLE SINGLE THROW	MISC.	MISCELLANEOUS
DRAW., DWG.	DRAWING	MTD.	MOUNTED
E.C.	ELECTRICAL CONTRACTOR	MTG.	MOUNTING
E.F., EF	EXHAUST FAN	NC	NORMAL CLOSED
E.H.	ELECTRIC HEATER	NEC/N.E.C.	NATIONAL ELECTRICAL CODE
E.P.R.	ETHYLENE PROPYLENE RUBBER	NEMA	NATIONAL ELECTRICAL MANUFACTURER ASSOC.
E.W.	EACH WAY	N.I.C./NIC	NOT IN CONTRACT
E.A.	EACH	NO	NORMALLY OPEN
EHT	ELECTRIC HEAT TRACING CABLE	No., #	NUMBER
ELEC. CLO.	ELECTRICAL CLOSET	N.T.S./NTS	NOT TO SCALE
ELEC./ELECT.	ELECTRIC	NIGHT LIGHT CIRCUIT	NIGHT LIGHT CIRCUIT
ELEV./EL.	ELEVATION/ELEVATOR	NON FUSED	NON FUSED
EM	EMERGENCY POWER PACK COMPLETE	POLE	POLE
EMT	ELECTRICAL METALLIC TUBING	P	PHOTOCELL
ENCL.	ENCLOSURE	P.I.L.C.	PAPER INSULATED LEAD COVERED
ENT.	ENTRANCE	P.B. P	PULL BOX, BREAKER OR SWITCH POLE
EMERG. EQUIP.	EMERGENCY EQUIPMENT	PNL	PANELBOARD
EST.	ESTIMATE	PORC.	PORCELAIN
EXT.	EXTERNAL/EXTERIOR	PR.	PRIMARY
E.O.	ELECTRICALLY OPERATED	P.OE	POWER OVER ETHERNET
F.A.	FIRE ALARM	PAINTED	PAINTED
FACP	FIRE ALARM CONTROL PANEL	POLYVINYLCHLORIDE	POLYVINYLCHLORIDE
F.E.	FIRE EXTINGUISHER	R	RADIUS
F.O.	FIBER OPTIC	RAP	REMOTE ANNUNCIATOR PANEL
FDN.	FOUNDATION	R.C.SW.	REMOTE CONTROL SWITCH
FIG.	FIGURE	REBAR.	REINFORCING BAR
FIN.	FINISH/FINISHED	REC.	RECESSED RECEPTACLE
FIXT.	FIXTURE	RECP.	RECEPTACLE
FL.	FLOOR	REQ'D	REQUIRED
FLEX.	FLEXIBLE	REV.	REVISE/REVISION
F.L.M.C.	FLEXIBLE LIQUID/TIGHT METALLIC CONDUIT	RF	RADIO FREQUENCY
FLUOR.	FLUORESCENT	RGS	REMOTE GENERATOR ANNUNCIATOR
FC	FOOTCANDLE	RM.	RIGID GALVANIZED STEEL CONDUIT
FT	FAULT TRIP	R.M.	ROOM
FT.	FEET	RT	ROOF TOP

STANDARD MOUNTING HEIGHTS

MOUNTING HEIGHTS FOR EQUIPMENT SHALL BE AS LISTED BELOW UNLESS OTHERWISE SPECIFICALLY LABELED. (UNLESS OTHERWISE NOTED, ALL DIMENSIONS ARE TO THE CENTERLINE OF BOXES.)

SWITCHES	3'-8" A.F.F.
TELEPHONE - WALL TYPE	3'-8" A.F.F.
TELEPHONE - DESK TYPE	1'-6" A.F.F.
RECEPTACLE - GENERAL OFFICE	1'-6" A.F.F.
RECEPTACLE - MECHANICAL ROOMS	3'-0" A.F.F.
FIRE ALARM GONG OR SPEAKER	6'-8" TO BOTTOM OF GONG OR SPEAKER
FIRE ALARM PULL STATION	3'-8" A.F.F. TO CENTER OF PULL
FIRE ALARM STROBE LIGHT	6'-8" A.F.F. TO BOTTOM OF STROBE
MOTION SENSOR	6'-5" A.F.F.
PANELBOARDS	6'-0" TO TOP OF CIRCUIT BREAKER MAX.
EXIT LIGHT	ABOVE DOORS (MIN. 7'-6" A.F.F. CLEAR)
KEY PAD (REMOTE)	3'-8" A.F.F.
DATA OUTLET	1'-6" A.F.F.
VOLUME CONTROL/CALL SWITCH	3'-8" A.F.F.
TIMER (NON-ADA)	4'-8" A.F.F.

WIRE & CONDUIT SIZING SCHEDULE

AMPS	CKT. TYPE	WIRE SIZE (AWG/KCMIL)		NO. OF WIRES & CONDUIT SIZE IN INCHES			
		CONDUCTOR & NEUTRAL	EQUIPMENT GROUND	SUPPLY SIDE BONDING JUMPER	A	B	C
15	1	14	14	8	3/4	3/4	3/4
20	2	12	12	8	3/4	3/4	3/4
30	3	10	10	8	3/4	3/4	3/4
40	4	8	10	8	3/4	3/4	3/4
50	5	6	10	8	3/4	1	1
60	6	4	10	8	1	1-1/4	1-1/4
70	7	4	8	8	1	1-1/4	1-1/4
80	8	3	8	8	1-1/4	1-1/4	1-1/4
90	9	2	8	8	1-1/4	1-1/4	1-1/2
100	10	1	6	6	1-1/4	1-1/2	2
125	11	1	6	6	1-1/4	1-1/2	2
150	12	1/0	6	6	1-1/2	2	2
175	13	2/0	6	4	2	2	2-1/2
200	14	3/0	6	4	2	2	2-1/2
225	15	4/0	2	2	2	2-1/2	2-1/2
250	16	250 KCMIL	2	2	2	2-1/2	2-1/2
275	17	300 KCMIL	2	2	2	2-1/2	2-1/2
300	18	350 KCMIL	2	2	2	2-1/2	3
325	19	400 KCMIL	1/0	1/0	2	2-1/2	3
350	20	500 KCMIL	1/0	1/0	2-1/2	3	3-1/2
400	21	(2) 4/0	(2) 2	(2) 1/0	---	(2) 2	(2) 2-1/2
500	22	(2) 250 KCMIL	(2) 2	(2) 1/0	---	(2) 2	(2) 2-1/2
600	23	(2) 350 KCMIL	(2) 1	(2) 2/0	---	(2) 2-1/2	(2) 3
700	24	(2) 500 KCMIL	(2) 1/0	(2) 2/0	---	(2) 3	(2) 3-1/2
800	25	(3) 300 KCMIL	(3) 1/0	(3) 2/0	---	(3) 2-1/2	(3) 3
1000	26	(3) 400 KCMIL	(3) 2/0	(3) 2/0	---	(3) 3	(3) 3
1100	27	(3) 500 KCMIL	(3) 3/0	(3) 2/0	---	(3) 3	(3) 3-1/2
1200	28	(4) 350 KCMIL	(4) 3/0	(4) 2/0	---	(4) 2-1/2	(4) 3
1500	29	(4) 500 KCMIL	(4) 4/0	(4) 2/0	---	(4) 3	(4) 3-1/2
1600	30	(5) 400 KCMIL	(5) 4/0	(5) 2/0	---	(5) 3	(5) 3
1900	31	(5) 500 KCMIL	(5) 250	(5) 2/0	---	(5) 3	(5) 3-1/2
2000	32	(6) 400 KCMIL	(6) 250	(6) 2/0	---	(6) 3	(6) 3-1/2
2500	33	(7) 500 KCMIL	(7) 350	(7) 2/0	---	(7) 3	(7) 3-1/2
3000	34	(8) 500 KCMIL	(8) 400	(8) 2/0	---	(8) 3	(8) 3-1/2

THE ABOVE SCHEDULE IS BASED ON 600 VOLT WIRE TYPE 90°C THHN/THWN/HHW. THE FOLLOWING IS A SAMPLE OF WIRE AND CONDUIT READOUT FROM ABOVE SCHEDULE:
 (2) #12AWG, (1) #12GRD IN 3/4" C.

GENERAL NOTES

- ALL ELECTRICAL EQUIPMENT SHALL BE INSTALLED AND GROUNDED IN ACCORDANCE WITH THE LATEST REQUIREMENTS OF THE NATIONAL ELECTRICAL CODE, THE SPECIFICATIONS FOR GROUNDED, THE CONTRACT DRAWINGS, FEDERAL, STATE AND LOCAL CODES AND TO THE SATISFACTION OF THE ENGINEER. ALL GROUNDED CONNECTIONS TO BE MADE BY THE CADDLED PROCESS OR EQUAL.
- ALL CONDUITS AND ELECTRICAL EQUIPMENT ARE SHOWN DIAGMATICALLY AND MAY BE ALTERED TO SUIT FIELD CONDITIONS PENDING ENGINEER'S APPROVAL.
- ALL PLANS ELEVATIONS AND CLEARANCES SHALL BE CHECKED IN THE FIELD PRIOR TO INSTALLATION TO AVOID ALL OBSTRUCTIONS.
- ALL JUNCTION BOXES SHALL BE OF SUFFICIENT SIZE TO PROVIDE FREE SPACE FOR ALL CONDUCTORS ENCLOSED IN THE BOX AND SHALL BE SIZED WITH THE LATEST N.E.C. ARTICLE 314.
- ALL DIMENSIONS ARE APPROXIMATE AND MUST BE VERIFIED IN THE FIELD BY THE CONTRACTOR.
- CONTRACTOR SHALL CHECK FOR OBSTRUCTIONS AND CLEAN OUT ALL CONDUITS PRIOR TO PULLING IN CABLES.
- PHASING OF ALL ELECTRICAL CONNECTIONS SHALL BE THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR AND SHALL BE MADE IN ACCORDANCE WITH THE LOCAL UTILITY COMPANY REQUIREMENTS.
- ALL HOLES THROUGH STRUCTURE TO ACCOMMODATE ELECTRICAL CONDUITS SHALL BE CORE DRILLED AND SEALED WITH NON-SHRINK GROUTING COMPOUND. WHERE RACEWAYS PASS THROUGH FLOORS AND FIRE RATED WALLS AND/OR PARTITIONS, CONTRACTOR SHALL FURNISH UL RATED FIREPROOFING MATERIAL TO BE INSTALLED IN STRICT COMPLIANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND RESTORE ORIGINAL FIRE RATING.
- CONTRACTOR SHALL FURNISH STRUCTURAL SUPPORT FOR ALL EQUIPMENT. FOR SURFACE MOUNTED EQUIPMENT, SUCH AS PANELBOARDS, STARTERS, SAFETY SWITCHES AND THE LIKE, PROVIDE "UNISTRUT" WITH CORROSION RESISTANT MOUNTING HARDWARE.
- NO CONDUIT SMALLER THAN 3/4" SHALL BE USED UNLESS OTHERWISE SPECIFIED.
- ALL JOINTS BETWEEN DISSIMILAR METALS SHALL BE COATED WITH A LITHIUM BASED THREAD LUBRICANT.
- RACEWAYS SHALL BE PROVIDED WITH AN APPROVED EXPANSION-DEFLECTION FITTINGS WHERE CROSSING BUILDING CONSTRUCTION EXPANSION JOINTS AND WHERE NECESSARY TO COMPENSATE FOR THERMAL EXPANSION AND CONTRACTION.
- FURNISH AND INSTALL CONCRETE PADS FOR ALL FLOOR MOUNTED ELECTRICAL EQUIPMENT.
- PRIOR TO SUBMITTING PROPOSALS, BIDDERS ARE INSTRUCTED TO REVIEW PLANS AND SPECIFICATIONS OF ALL CONCURRENT WORK TO DETERMINE QUANTITIES OF LABOR AND MATERIAL NECESSARY TO INSTALL, CONNECT, AND TEST MATERIAL FURNISHED UNDER THESE SPECIFICATIONS. ANY ADDITIONAL LABOR AND MATERIAL REQUIRED DUE TO FAILURE OF THE CONTRACTOR TO FOLLOW THESE INSTRUCTIONS, SHALL BE FURNISHED AT NO ADDITIONAL COST TO THE OWNER.

- THE ELECTRICAL CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER CONTRACTORS EMPLOYED ON THIS PROJECT PRIOR TO ROUGHING IN. THE CONTRACTOR SHALL OBTAIN AND REVIEW APPROVED SHOP DRAWINGS OF ALL OTHER TRADES AFFECTING ALL ELECTRICAL WORK.
- THE CONTRACTOR SHALL CHECK AND TORQUE TIGHTEN ALL CONNECTIONS, WHETHER FACTORY MADE OR MADE UNDER THIS CONTRACT, USING ACCURATELY CALIBRATED TOOLS. TORQUE SETTINGS SHALL BE IN ACCORDANCE WITH THE MANUFACTURER'S SPECIFIC RECOMMENDATIONS.
- INSTALL AN 1/8" INCH POLY PROPYLENE (PULL-IN-ROPE) IN ALL SPARE CONDUITS.
- INSULATED COPPER CONDUCTORS FOR EQUIPMENT GROUNDING SHALL BE ROUTED WITH ALL POWER CONDUCTORS.
- CONDUCTORS USED FOR CONTROL WIRING SHALL BE AT LEAST NO. 14 AWG AND ALL POWER CONDUCTORS SHALL BE AT LEAST NO. 12 AWG UNLESS OTHERWISE SPECIFIED.
- CONTRACTOR SHALL PROVIDE ALL NECESSARY SAFETY EQUIPMENT AND EXERCISE PRECAUTIONARY PROCEDURES WHEN WORKING WITH OR NEAR ENERGIZED EQUIPMENT.
- CONTRACTOR SHALL REMOVE ALL OBSOLETE EQUIPMENT, CONDUITS AND WIRING, EXCEPT WHERE OTHERWISE NOTED.
- INTERRUPTION OF SERVICE SHALL BE SCHEDULED AND COORDINATED WITH THE OWNER AND HELD TO MINIMUM IN ORDER TO MAINTAIN THE PROPER OPERATION OF THE FACILITY.
- WHEN CONDUIT OR CABLE RUNS FOR POWER AND LIGHTING EXCEED 60 FT. FOR 120 VOLT OR 120 FT. FOR 277 VOLT TO CENTER OF LOAD, NO. 10 AWG WIRE OR LARGER SHALL BE USED AS REQUIRED FOR A MAXIMUM 3% VOLTAGE DROP AT FULL CIRCUIT CAPACITY.
- HEAVIER LINE WEIGHT SYMBOLS AND TEXT INDICATE NEW WORK UNLESS OTHERWISE NOTED. LIGHT LINE WEIGHT SYMBOLS AND ITALICIZED TEXT INDICATE EXISTING CONDITIONS TO REMAIN UNLESS OTHERWISE NOTED.
- CONTRACTOR SHALL SALVAGE ALL DEMOLISHED EQUIPMENT AND VERIFY WITH OWNER PRIOR TO DISPOSING OF THE DEMOLISHED EQUIPMENT.
- CONTRACTOR SHALL COORDINATE THE REMOVAL AND INSTALLATION OF ALL DEVICES ASSOCIATED WITH SURVEILLANCE, COMMUNICATIONS, AND CONTROL OF THE FACILITY WITH THE OWNER.
- THE CONTRACTOR SHALL PROVIDE A THOROUGH EVALUATION OF THE EXISTING PROJECT SITE AND BUILDING CONDITIONS. WHERE EXISTING CONDITIONS WARRANT CHANGES TO ACCOMMODATE THE NEW WORK PLANNED, THE CONTRACTOR SHALL PROVIDE THE REQUIRED WORK AND MATERIALS TO INCLUDE ANY AND ALL ALTERATIONS, DEMOLITION, PATCHING, AND REPAIRING OF THE EXISTING CONDITIONS TO ACCOMMODATE THE NEW CONSTRUCTION WORK AS A COMPLETE INSTALLATION.

REMINGTON & VERNICK ENGINEERS

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 Certification of Authorization: 24 GA 28003300
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DATE: 05-09-2024

CHRISTOPHER A. SAPONARO
 NJ PROFESSIONAL ENGINEER LIC. NO. 40059

DATE: 05-09-2024

KAVAN R. SMITH
 NJ PROFESSIONAL ENGINEER LIC. NO. 56794

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

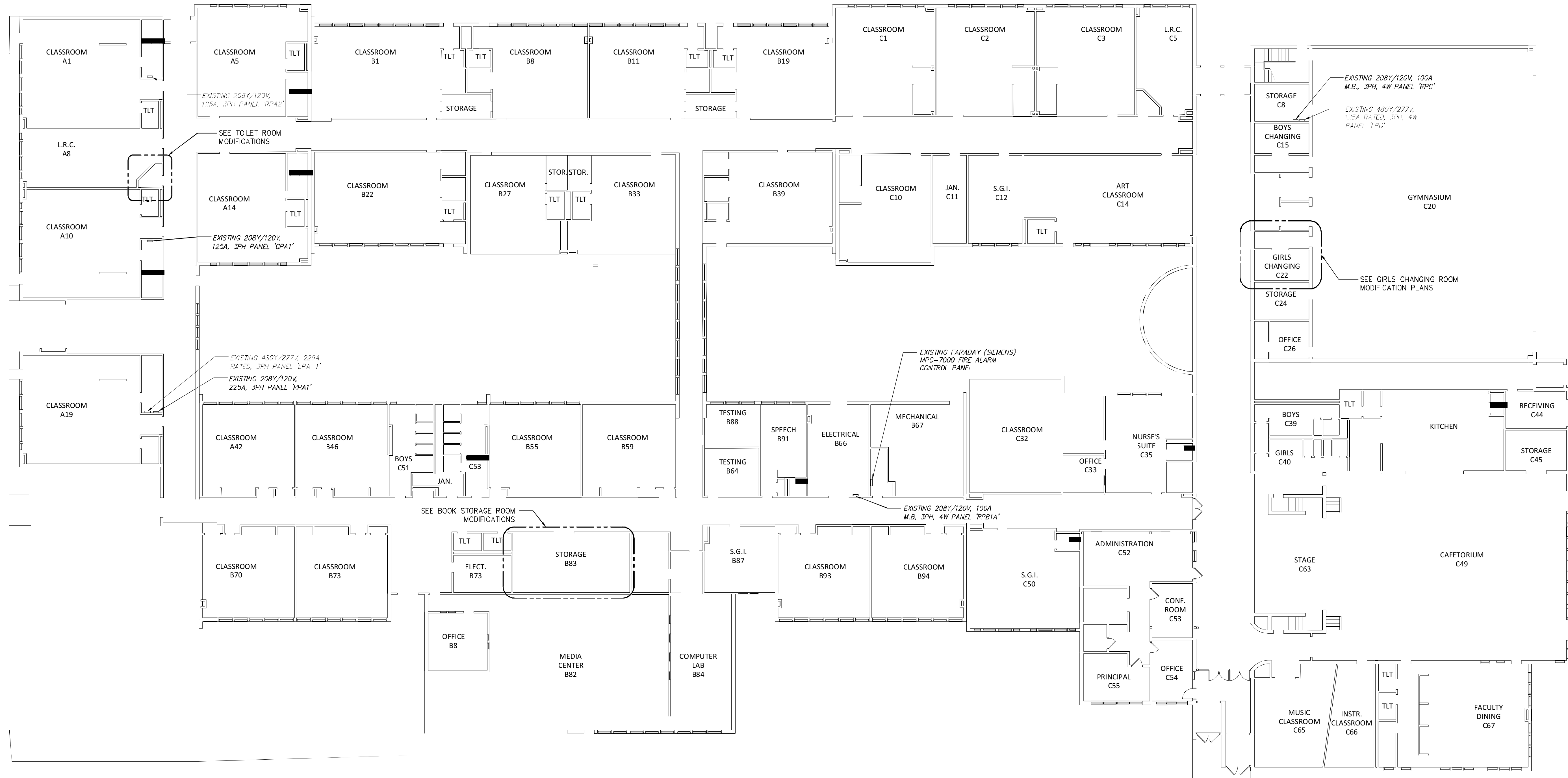
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CITY OF LINWOOD BOARD OF EDUCATION
 VARIOUS ROOM MODIFICATIONS
 SEAVIEW ELEMENTARY SCHOOL

ATLANTIC COUNTY
 NEW JERSEY

REVISION

NO.	DATE	BY	CHK



1 ELECTRICAL OVERALL FLOOR PLAN
SCALE: 1/16" = 1'-0"

- NOTES:**
1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING E-1.0 APPLY TO THIS DRAWING.
 2. THIS DRAWING IS DIAGRAMMATIC, IT IS THE CONTRACTOR'S RESPONSIBILITY TO CONFIRM EXISTING SITE CONDITIONS AND INSTALLATION CLEARANCES PRIOR TO SHOP DRAWING SUBMISSIONS AND INSTALLATION. SHOULD THE CONTRACTOR DETERMINE THAT THE INSTALLATION OF ANY ELECTRICAL COMPONENT IS RESTRICTED OR NOT ABLE TO BE INSTALLED IN THE SUGGESTED LOCATION, THE CONTRACTOR SHALL READDRESS THE INSTALLATION ACCORDINGLY AND IN COMPLIANCE WITH THE MOST RECENTLY ADOPTED NATIONAL ELECTRICAL CODE APPROVED BY THE AUTHORITY HAVING JURISDICTION AT NO ADDITIONAL COST.

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Certification of Authorization: 24 CA 28003300
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DATE: 05-09-2024
CHRISTOPHER A. SAPONARO
NJ PROFESSIONAL ENGINEER LIC. NO. 40059

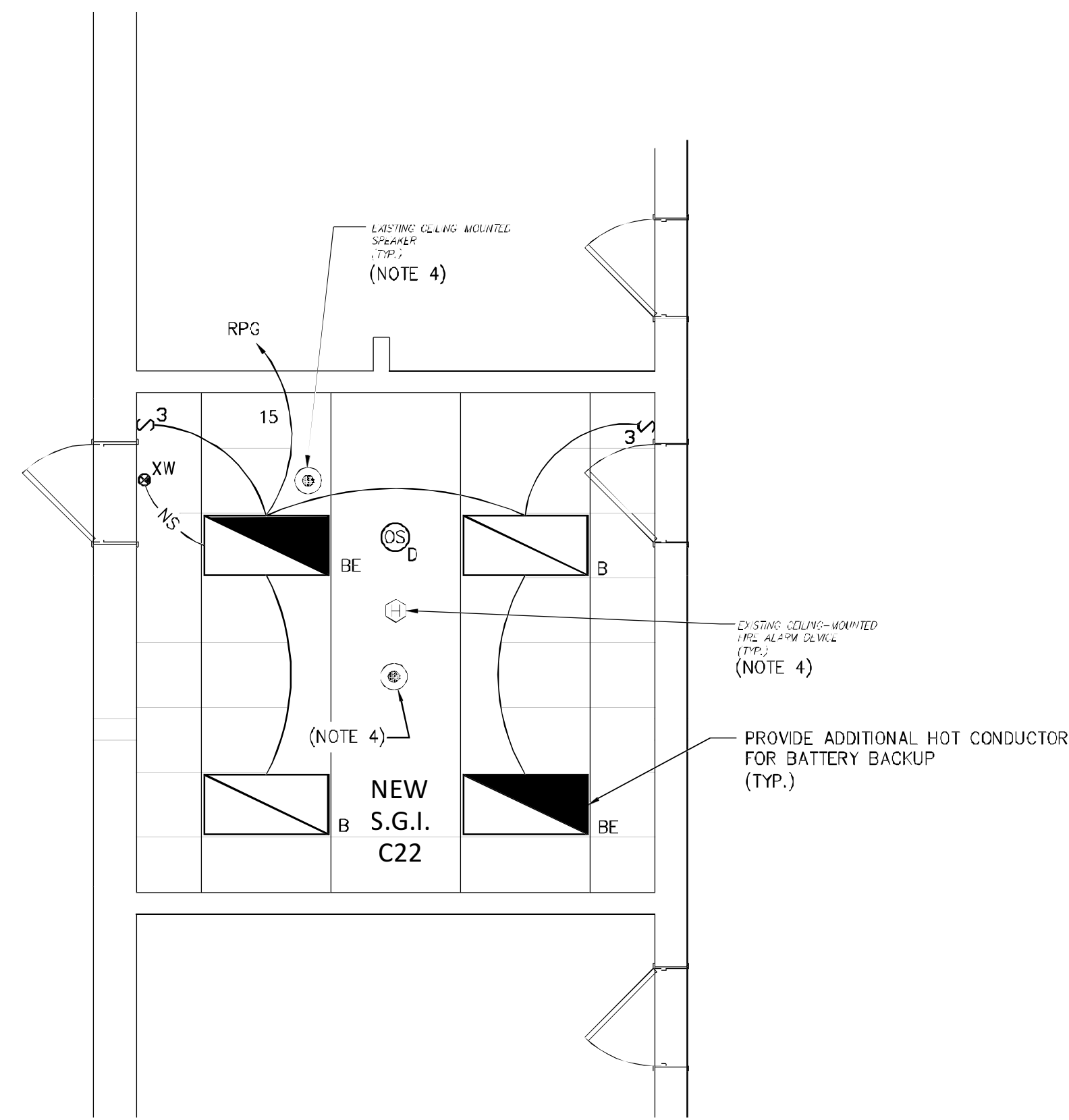
DATE: 05-09-2024
KAVAN R. SMITH
NJ PROFESSIONAL ENGINEER LIC. NO. 56794

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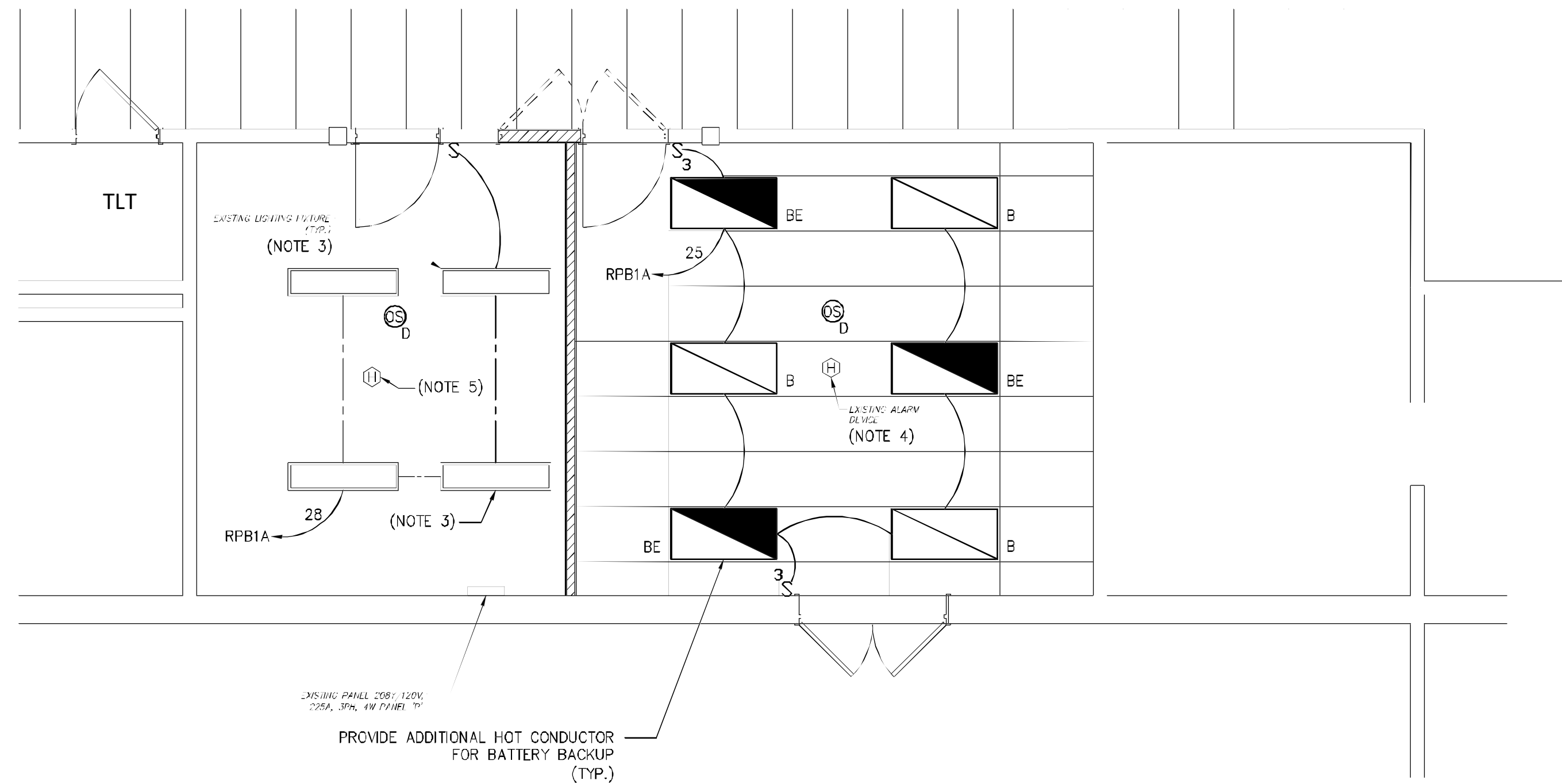
NO.	REVISION	DATE	BY/CHK

ELECTRICAL OVERALL FLOOR PLAN
CITY OF LINWOOD BOARD OF EDUCATION
VARIOUS ROOM MODIFICATIONS
SEAVIEW ELEMENTARY SCHOOL
CITY OF LINWOOD ATLANTIC COUNTY NEW JERSEY

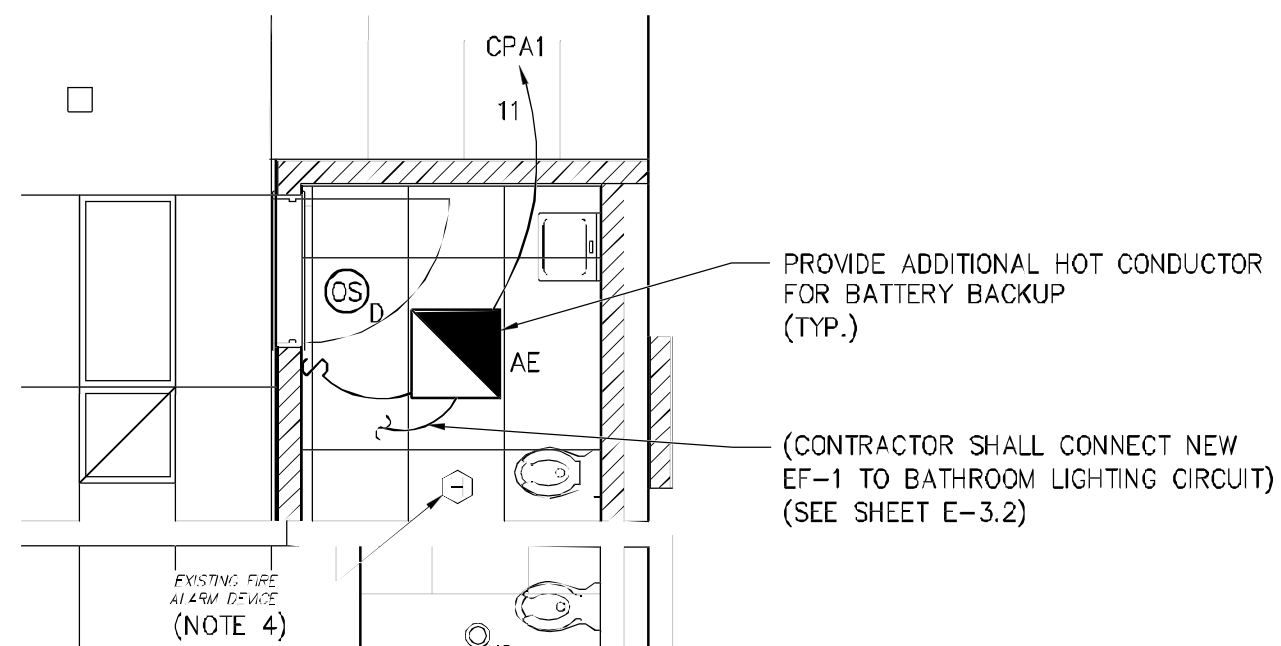
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C.P.	C.P.		AS NOTED
DATE:			SHEET No.:
5/2024			E-2.1
JOB No.:			
01-14-C-019			



1 ELECTRICAL CHANGING ROOM MODIFICATIONS RCP
SCALE: 1/4" = 1'-0"



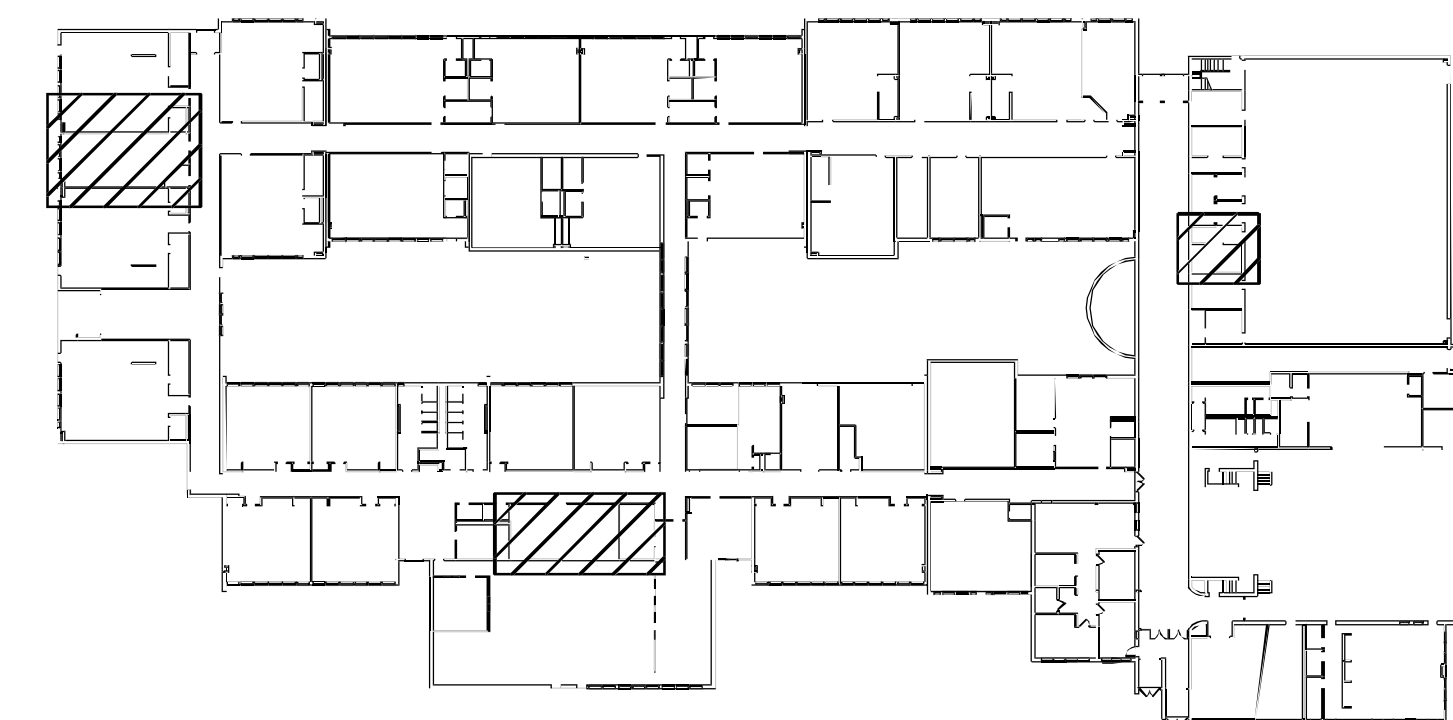
2 ELECTRICAL BOOK STORAGE ROOM MODIFICATIONS RCP
SCALE: 1/4" = 1'-0"



3 ELECTRICAL TOILET ROOM MODIFICATIONS RCP
SCALE: 1/4" = 1'-0"

NOTES:

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- CONTRACTOR SHALL RELOCATE EXISTING LIGHTING FIXTURES AND PROVIDE NEW WIRING, RACEWAYS, SWITCHES, ETC.
- CONTRACTOR SHALL REINSTALL EXISTING CEILING MOUNTED FIRE ALARM DEVICES AND CEILING MOUNTED SPEAKERS.
- CONTRACTOR SHALL RELOCATE EXISTING CEILING MOUNTED FIRE ALARM DEVICE FROM EXISTING CHANGING ROOM AND REINSTALL IN NEW LOCATION. CONTRACTOR SHALL PROVIDE NEW COMPATIBLE SIEMENS FIRE ALARM WIRING FROM NEW LOCATION BACK TO THE EXISTING FIRE ALARM CONTROL PANEL.
- CONTRACTOR SHALL RELOCATE EXISTING CEILING MOUNTED FIRE ALARM DEVICE FROM EXISTING CHANGING ROOM AND REINSTALL IN NEW LOCATION. CONTRACTOR SHALL PROVIDE NEW BACKWARDS COMPATIBLE SIEMENS FIRE ALARM WIRING AS REQUIRED FOR NEW LOCATIONS OF EXISTING FIRE ALARM DEVICES WHERE EXISTING WIRING CAN NOT REACH PROPOSED LOCATION.



4 KEY PLAN
N.T.S.

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DATE: 05-09-2024
CHRISTOPHER A. SAPONARO
NJ PROFESSIONAL ENGINEER LIC. No. 40059

DATE: 05-06-2024
KAVAN R. SMITH
NJ PROFESSIONAL ENGINEER LIC. No. 56794

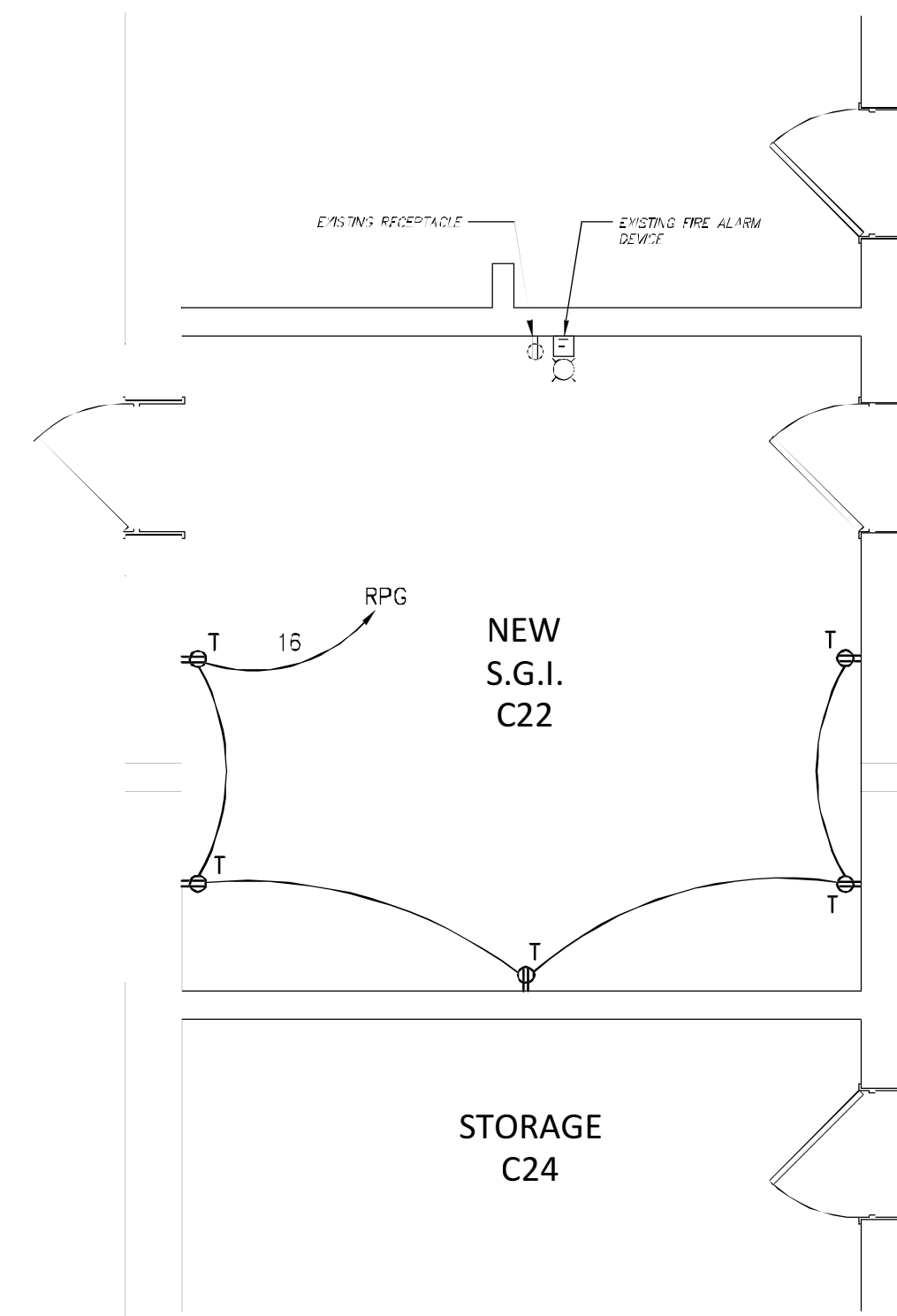
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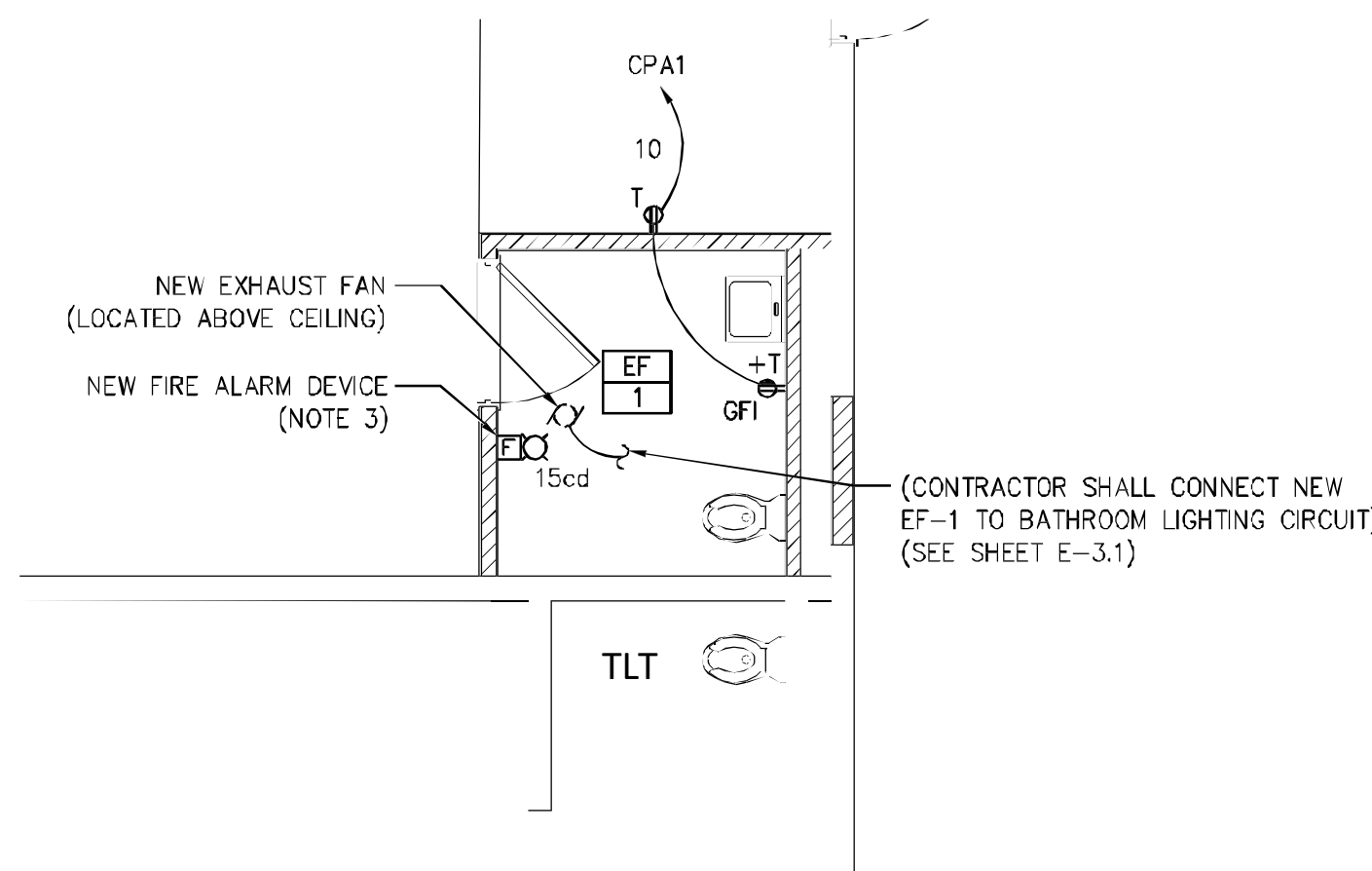
NO.	REVISION	DATE	BY/CHK

ELECTRICAL PROPOSED REFLECTED CEILING PLANS
CITY OF LINWOOD BOARD OF EDUCATION
VARIOUS ROOM MODIFICATIONS
SEAVIEW ELEMENTARY SCHOOL
CITY OF LINWOOD ATLANTIC COUNTY NEW JERSEY

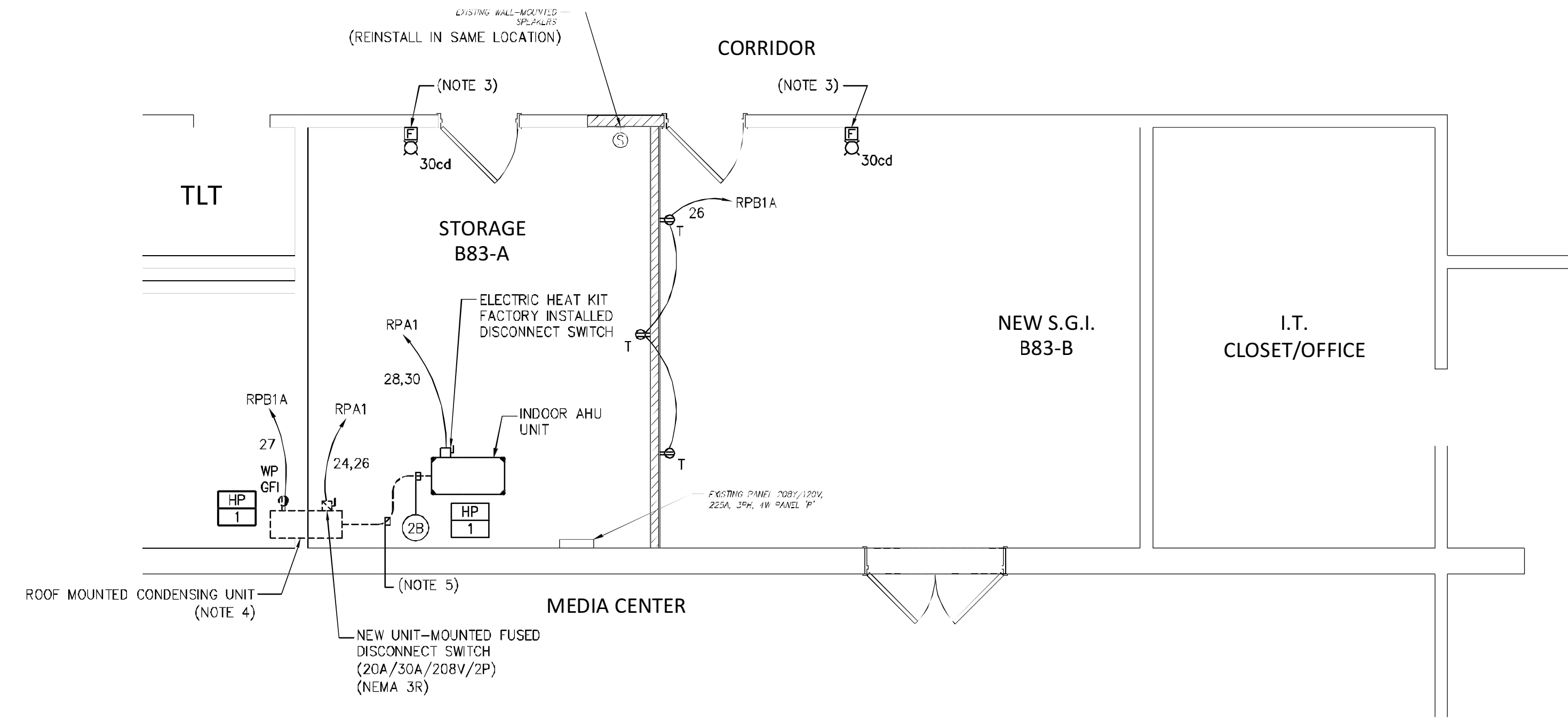
DRAWN BY: C.P. DESIGN BY: C.P. CHECKED BY: AS NOTED SCALE: AS NOTED
DATE: 5/20/24 SHEET No.: E-3.1
JOB No.: 01-14-C-019



1 ELECTRICAL CHANGING ROOM MODIFICATIONS PLAN
SCALE: 1/4" = 1'-0"



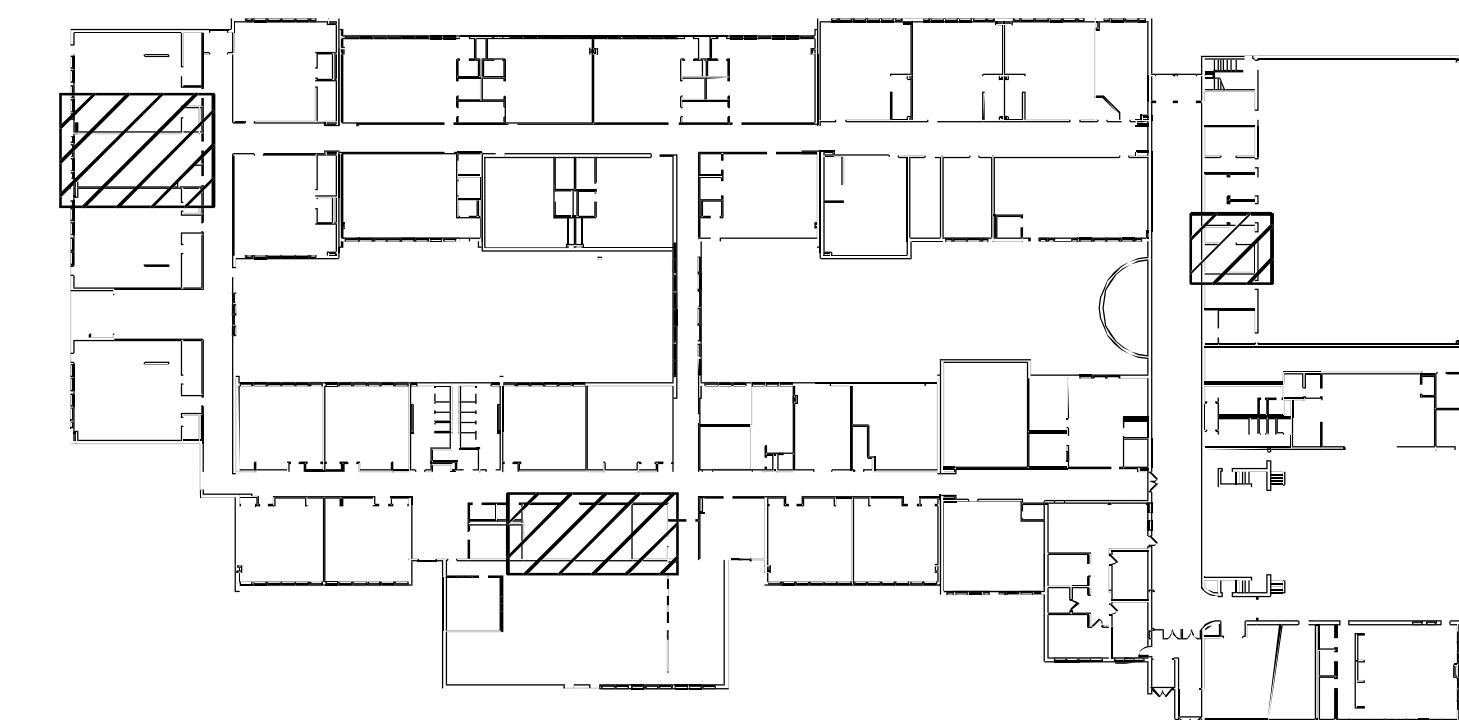
3 ELECTRICAL TOILET ROOM MODIFICATIONS PLAN
SCALE: 1/4" = 1'-0"



2 ELECTRICAL BOOK STORAGE ROOM MODIFICATIONS PLAN
SCALE: 1/4" = 1'-0"

NOTES:

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- PROVIDE ALL WIRING, CONDUIT, PROGRAMMING, TESTING, EXPANSION CARDS, SLAVE FIRE ALARM CONTROL PANELS, ETC. TO CONNECT NEW FIRE ALARM DEVICES INTO THE EXISTING FIRE ALARM SYSTEM IN ACCORDANCE WITH NFPA 72. FIELD VERIFY THE LOCATION, BRAND, CATALOG NUMBER OF ALL EXISTING FIRE ALARM PANELS, CONTROLLERS, DEVICES, ETC. AND INCLUDE ALL COSTS FOR THE CONNECTION OF THE NEW FIRE ALARM DEVICES IN THE CONTRACTOR'S BID.
- CONTRACTOR SHALL COORDINATE ALL LOW-VOLTAGE HVAC REQUIREMENTS WITH HVAC CONTRACTOR.
- INDOOR AIR HANDLING UNIT WILL BE POWERED FROM OUTDOOR CONDENSING UNIT LOCATED ON ROOF.



4 KEY PLAN
N.T.S.

DATE: 05-09-2024
CHRISTOPHER A. SAPONARO
NJ PROFESSIONAL ENGINEER LIC. No. 40059

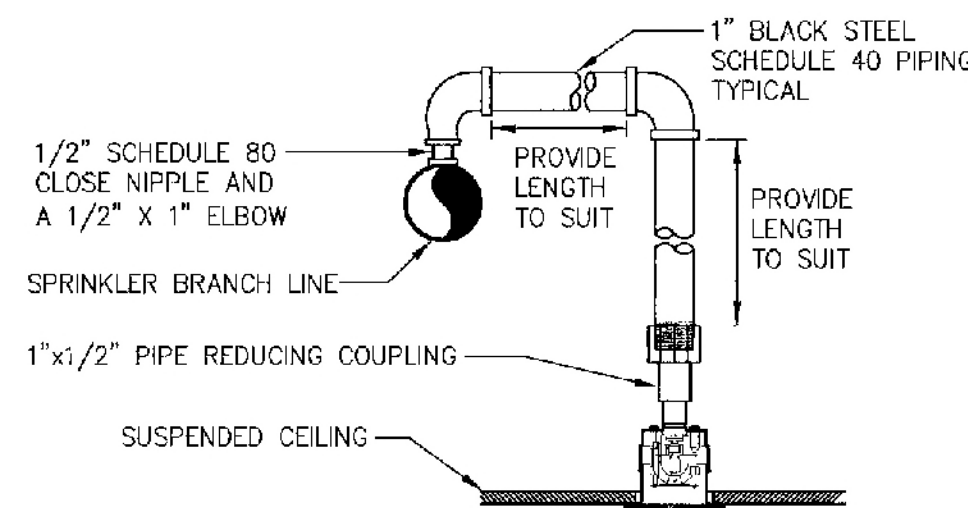
DATE: 05-09-2024
KAVAN R. SMITH
NJ PROFESSIONAL ENGINEER LIC. No. 56794

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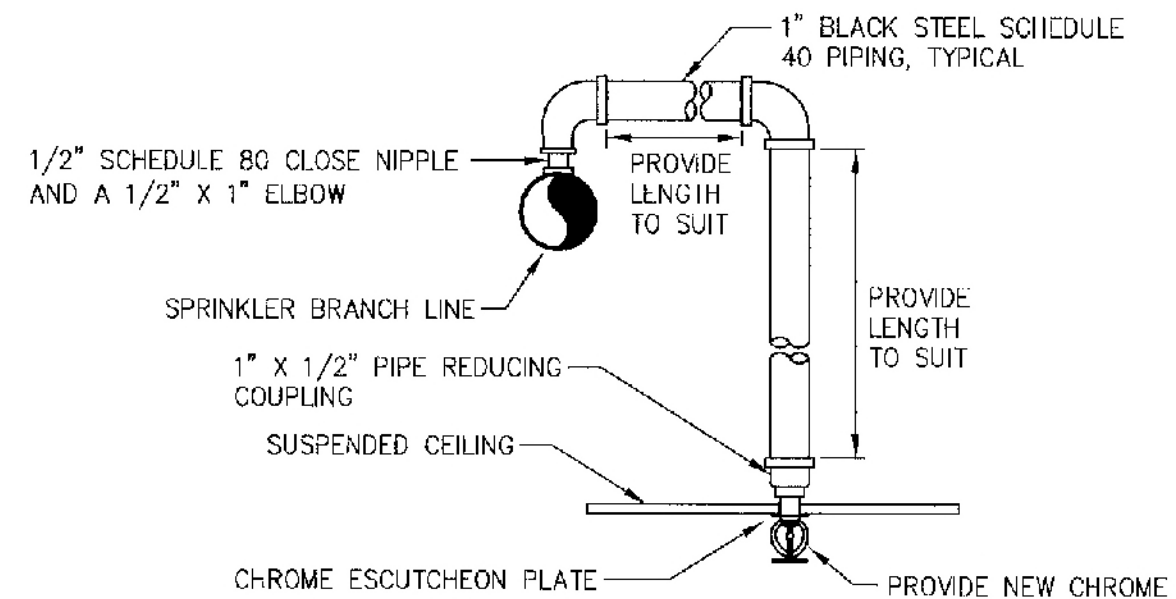
ELECTRICAL PROPOSED FLOOR PLANS
CITY OF LINWOOD BOARD OF EDUCATION
VARIOUS ROOM MODIFICATIONS
SEAVIEW ELEMENTARY SCHOOL
ATLANTIC COUNTY
NEW JERSEY
CITY OF LINWOOD



- NOTES:**
1. ADJUST SPRINKLER DROPS AS NECESSARY TO CLEAR OBSTRUCTIONS SUCH AS THE CEILING "T" BAR SUSPENSION SYSTEM, LIGHT FIXTURES, ETC. PROVIDE A PIPE HANGER IF THE HORIZONTAL OFFSET LENGTH EXCEEDS 24 INCHES.
 2. THIS SPRINKLER HEAD DROP IS APPLICABLE ONLY WHERE IT IS NOT NECESSARY TO RETAIN AN UPRIGHT SPRINKLER FOR PROTECTION OF COMBUSTIBLE CONSTRUCTION ABOVE THE CEILING.

NEW SPRINKLER HEAD DROP WITH RECESSED SPRINKLER HEAD

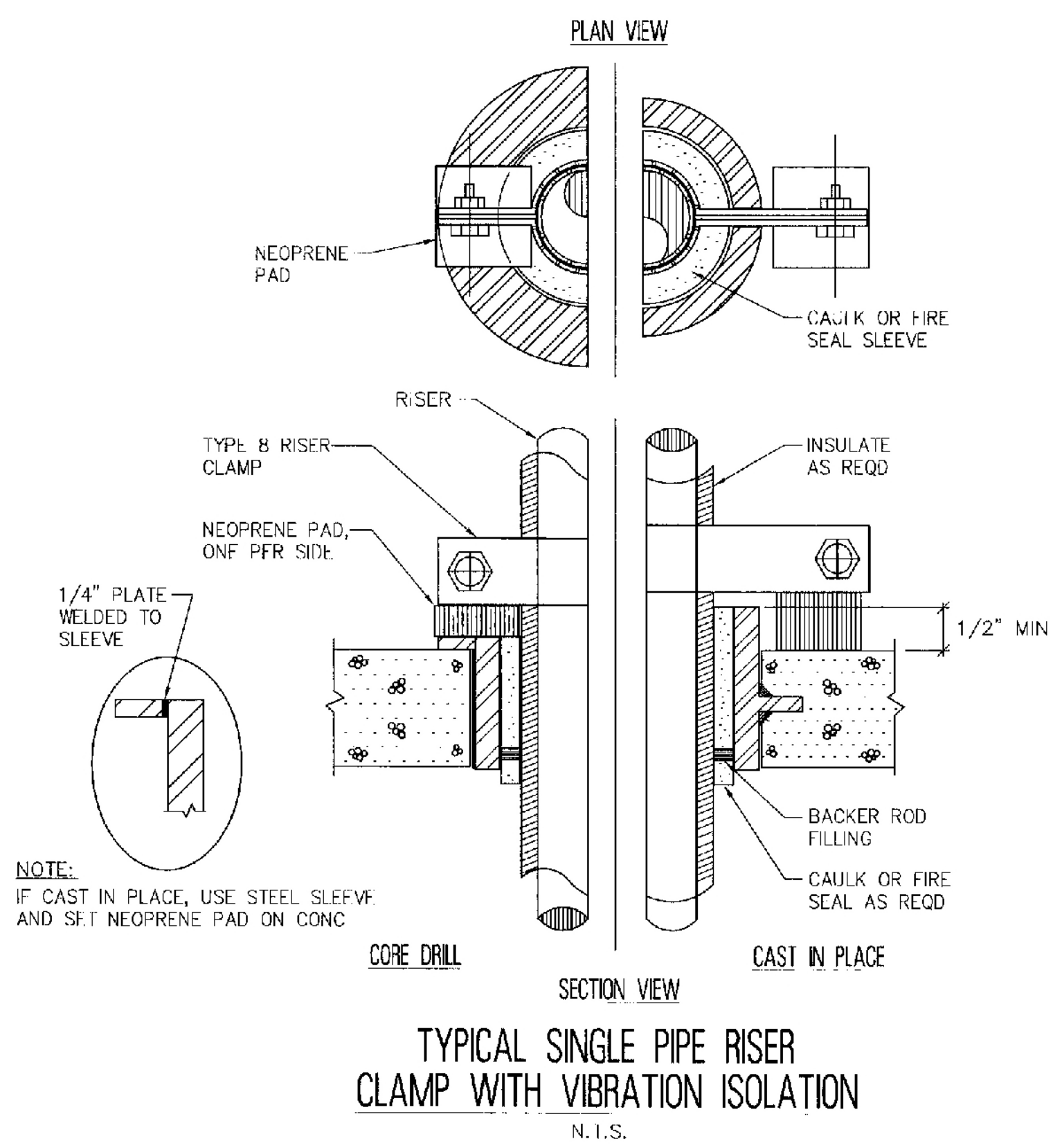
N.T.S.



- NOTES:**
1. ADJUST SPRINKLER DROPS AS NECESSARY TO CLEAR OBSTRUCTIONS SUCH AS THE CEILING "T" BAR SUSPENSION SYSTEM, LIGHT FIXTURES, ETC. PROVIDE A PIPE HANGER IF THE HORIZONTAL OFFSET LENGTH EXCEEDS 24 INCHES.
 2. THIS SPRINKLER HEAD DROP IS APPLICABLE ONLY WHERE IT IS NOT NECESSARY TO RETAIN AN UPRIGHT SPRINKLER FOR PROTECTION OF COMBUSTIBLE CONSTRUCTION ABOVE THE CEILING.

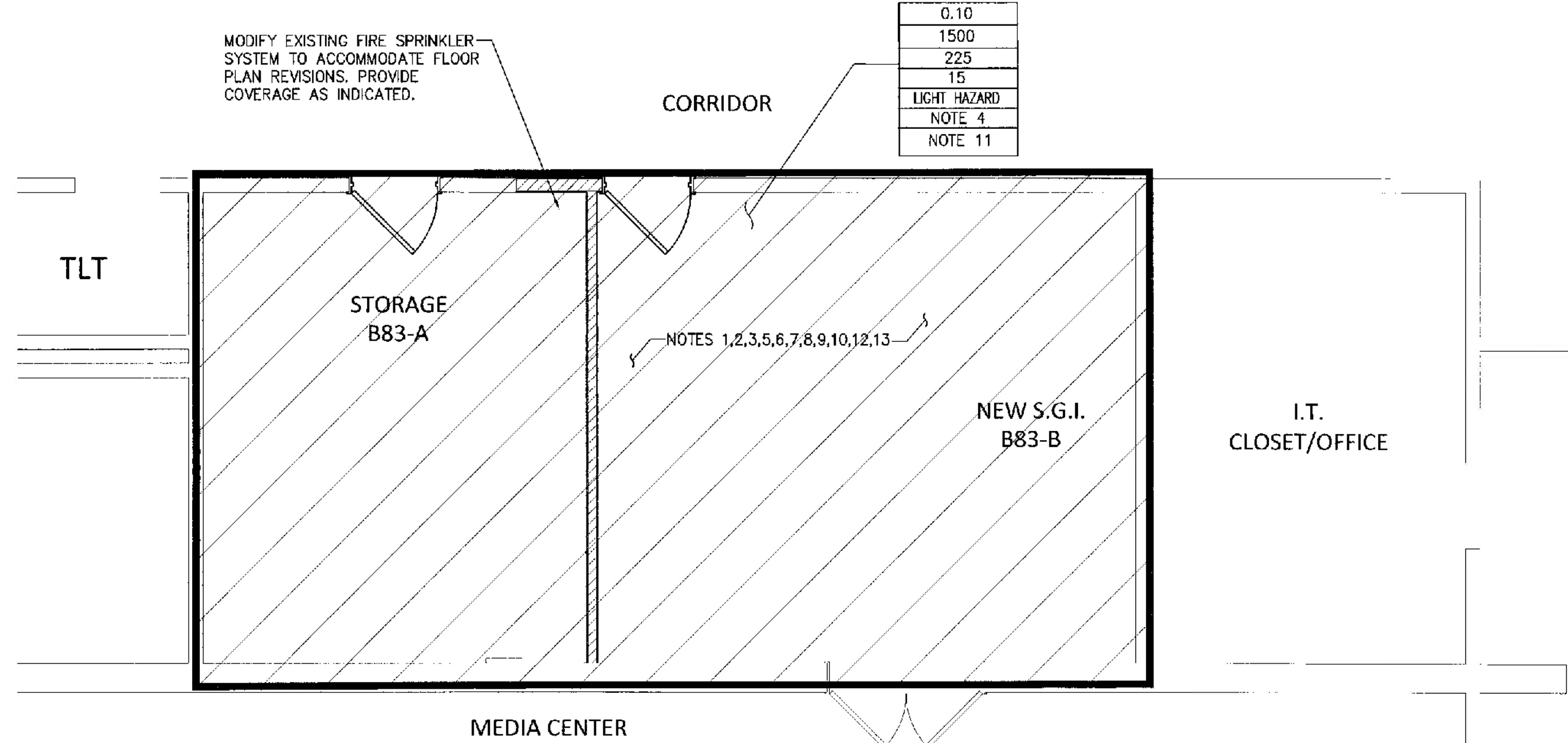
TYPICAL NEW SPRINKLER HEAD DROP

N.T.S.

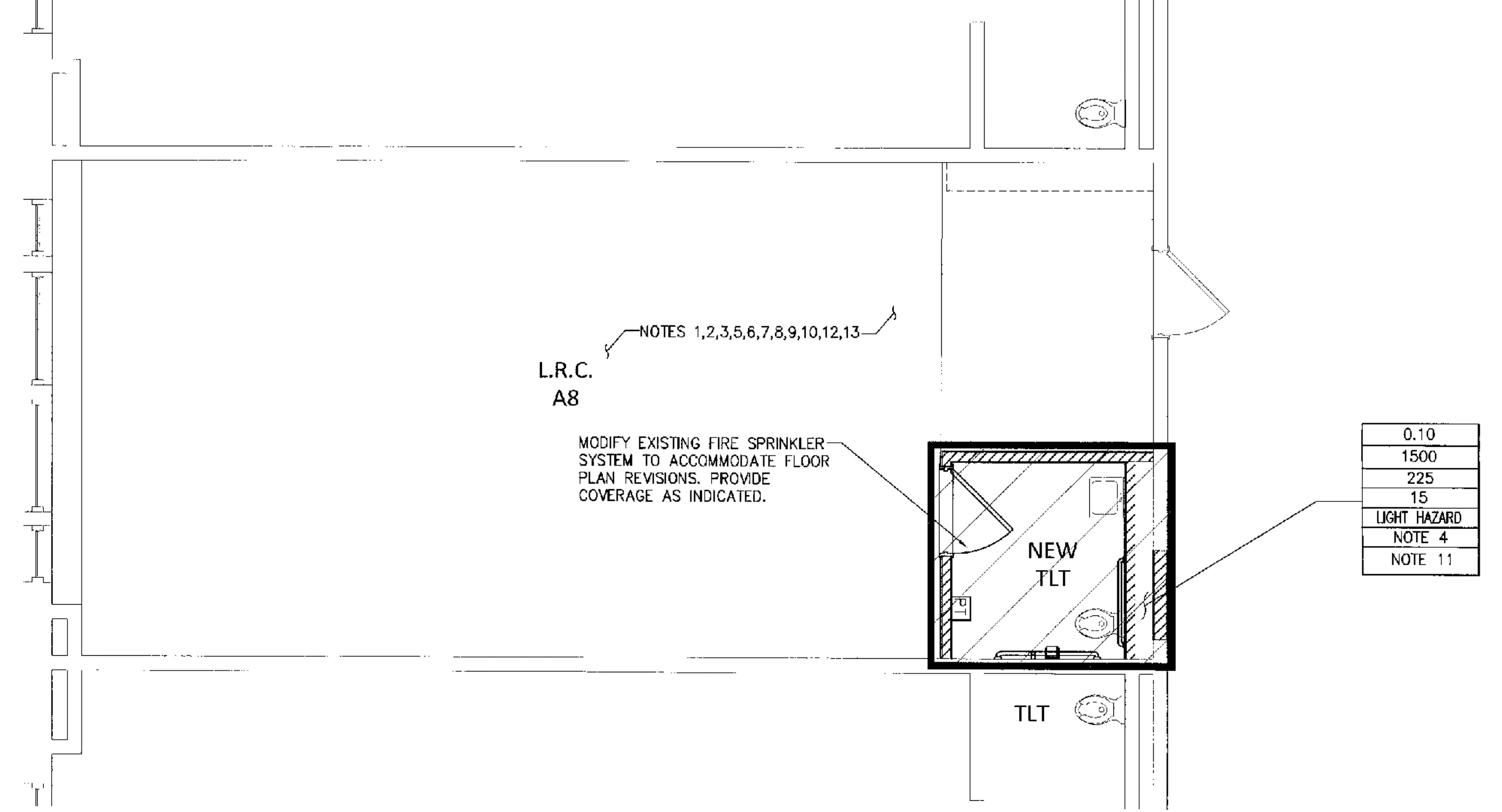


TYPICAL SINGLE PIPE RISER CLAMP WITH VIBRATION ISOLATION

N.T.S.



1 FIRE PROTECTION FLOOR PLAN- ROOM B83
SCALE: 1/4"=1'-0"



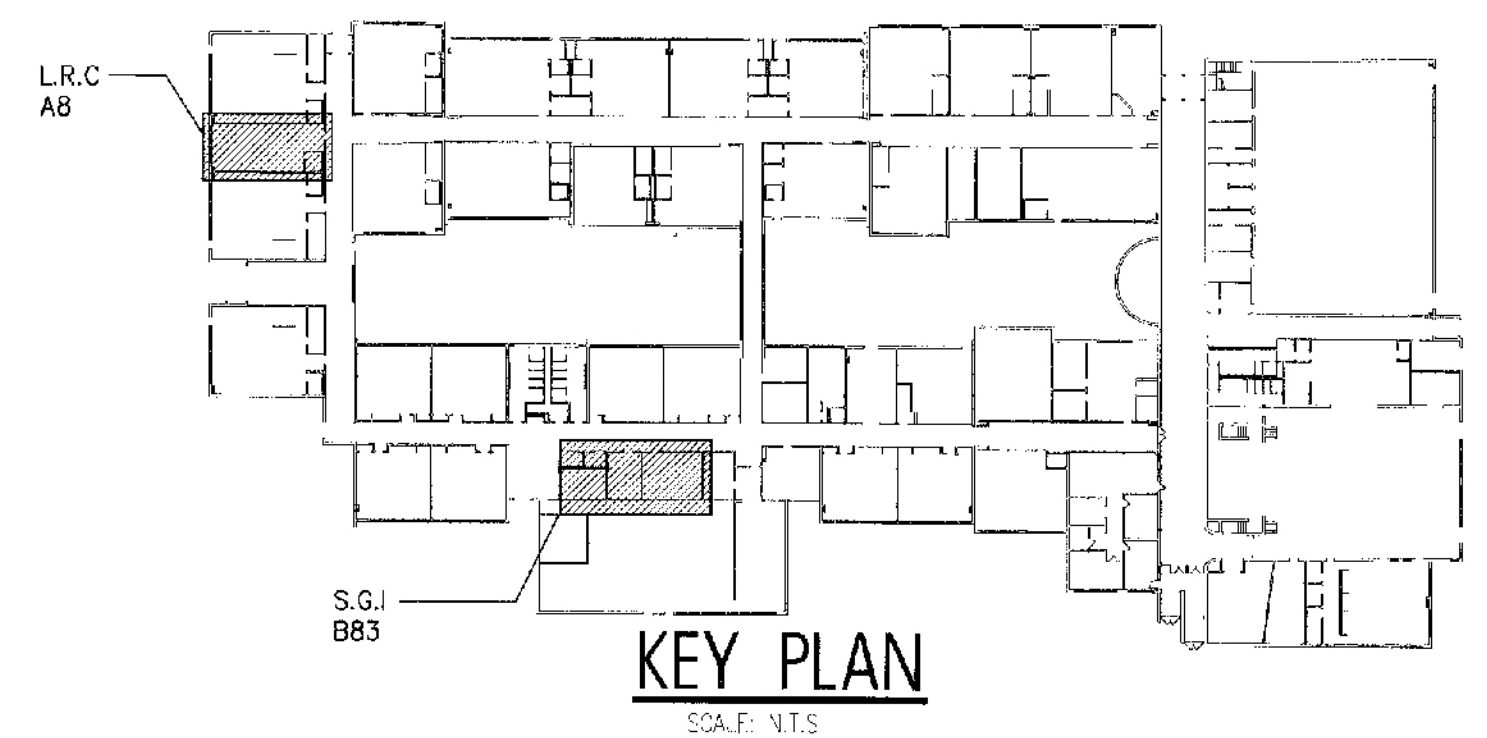
2 FIRE PROTECTION FLOOR PLAN- ROOM A8
SCALE: 1/4"=1'-0"

LEGEND

XXX	SPRINKLER DENSITY--(GPM/FT ²)
XXX	AREA OF SPRINKLER OPERATION (FT ²)
XXX	MAX COVERAGE AREA PER SPRINKLER (FT ²)
XXX	MAX SPACING (FT)
XXX	NFPA CLASSIFICATION
XXX	SPRINKLER TYPE
XXX	NOTES
[Hatched Box]	LIGHT HAZARD

- NOTES:**
1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
 2. ALL PIPE SIZES SHOWN ON THE DRAWING ARE EXISTING PIPE SIZES. FIRE PROTECTION CONTRACTOR SHALL SIZE PIPING BASED ON HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA AND SPECIFICATIONS. PRIOR TO PERFORMING HYDRAULIC CALCULATIONS, THE CONTRACTOR SHALL PERFORM A FLOW TEST IN ACCORDANCE WITH NFPA TO DETERMINE STATIC AND RESIDUAL PRESSURES AND CAPACITIES. COORDINATE FLOW TEST WITH LOCAL AUTHORITIES.
 3. FIRE PROTECTION CONTRACTOR SHALL COORDINATE INSTALLATION OF SPRINKLER HEADS WITH OTHER TRADES TO AVOID INTERFERENCES WITH DUCTWORK PIPING, CONDUIT, STRUCTURE, ETC.
 4. PROVIDE CONCEALED TYPE SPRINKLER HEADS IN ALL ROOMS WITH SUSPENDED CEILINGS. PROVIDE UPRIGHT OR PENDENT TYPE SPRINKLER HEADS IN AREAS WITHOUT CEILINGS. PROVIDE INTERMEDIATE TEMPERATURE HEADS IN THE ALL AREAS THAT ARE HEATED ONLY. PROVIDE ORDINARY TEMP SPRINKLERS IN STORAGE ROOMS. FOR AREAS WITH SECURITY CEILINGS, PROVIDE SECURE, TAMPER PROOF INSTITUTIONAL SPRINKLER.
 5. FIRE PROTECTION CONTRACTOR SHALL BE RESPONSIBLE FOR FINAL QUANTITIES AND LOCATIONS IN THE FIELD AS REQUIRED TO AVOID INTERFERENCES WITH DIFFUSERS, DUCTWORK, BUILDING STRUCTURE CONDUIT, ETC. AND THAT THESE FINAL QUANTITIES AND LOCATIONS ARE IN ACCORDANCE WITH NFPA.
 6. CONTRACTOR SHALL BE REQUIRED TO DEMOLISH ALL EXISTING FIRE PROTECTION SPRINKLERS IN THE AREA WHERE NEW COVERAGE IS TO BE PROVIDED AS SHOWN ON THIS PLAN.
 7. CONTRACTOR SHALL MAKE ALL REVISIONS TO EXISTING PIPING AND SPRINKLERS AS NECESSARY TO PROVIDE PROPOSED COVERAGE AS SHOWN ON THESE PLANS AND TO RETAIN EXISTING COVERAGE TO ALL OTHER AREAS OF THE BUILDING.

8. CONTRACTOR TO INVESTIGATE AND FIELD VERIFY THE EXISTING FIRE PROTECTION SPRINKLER PIPE SIZE AND LAYOUT AS NECESSARY TO PERFORM HYDRAULIC CALCULATIONS AND PROVIDE COVERAGE IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS. IT IS STRONGLY RECOMMENDED THAT THE CONTRACTOR VISIT THE SITE PRIOR TO SUBMITTING HIS BID TO FULLY UNDERSTAND THE EXISTING CONDITIONS. CONTRACTOR SHALL INCLUDE IN HIS BID ALL MATERIALS AND LABOR NECESSARY TO PERFORM THE SCOPE OF WORK AS SHOWN ON THE CONTRACT DRAWINGS.
9. CONTRACTOR SHALL REUSE EXISTING SPRINKLER PIPING, REMOVE EXISTING HEADS, AND REPLACE SPRINKLER HEADS AND DROPS TO ACCOMMODATE NEW CEILING. COORDINATE WITH ARCHITECTURAL CEILING PLAN.
10. CONTRACTOR TO DEMOLISH EXISTING BRANCH PIPING AND SPRINKLER DROPS, AND PROVIDE NEW DISTRIBUTION BRANCH PIPING AND SPRINKLER DROPS TO PROVIDE COVERAGE IN ACCORDANCE WITH THE CONTRACT DOCUMENTS. PROVIDE HYDRAULIC CALCULATIONS IN ACCORDANCE WITH NFPA 13 FOR THE RECONFIGURED SPACE. SEE ALSO NOTES 6 AND 7.
11. CONTRACTOR TO PROVIDE ALL WORK AND MATERIALS, INCLUDING REVISIONS TO SPRINKLER PIPING, IN ALL AREAS, EVEN IF NOT NOTED ON THIS PLAN, AS NECESSARY PROVIDE THE COVERAGE SPECIFIED.
12. CONTRACTOR REQUIRED TO PROVIDE ALL FLOW TESTS, ETC. NECESSARY TO PERFORM THE REQUIRED CALCULATIONS AND SYSTEM INSTALLATION AND TESTING. SEE SPECIFICATION SECTION 211.31.3.
13. CONTRACTOR TO REMOVE AND REPLACE ALL CEILING TILES, LIGHTING, ETC. NECESSARY TO INSTALL SPRINKLER PIPING.



KEY PLAN
SCALE: N.T.S.

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DATE: 05/09/2024
CHRISTOPHER A. SAPONARO
NJ PROFESSIONAL ENGINEER LIC. No. 40068

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NO.	REVISION	DATE	BY	CHK

FIRE PROTECTION FLOOR PLAN

CITY OF LINWOOD BOARD OF EDUCATION
VARIOUS ROOM MODIFICATIONS
SEAVIEW ELEMENTARY SCHOOL
AT: ATLANTIC COUNTY
CITY OF LINWOOD
NEW JERSEY

DESIGNED BY: B.K.	CHECKED BY: B.K.	SCALE: AS NOTED
DATE: 5/20/24	SHEET NO.:	
PROJECT NO.: 01-14-C-019		FP-2.1