Pelham Union Free School District

629 Fifth Avenue
Pelham, New York 10803

Siwanoy Elementary School

ADDITIONS AND ALTERATIONS

489 Siwanoy Place
Pelham, NY 10803



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CONSTRUCTION DOCUMENTS
ISSUE FOR BID - VOLUME 2

12 NOVEMBER 2026

NY SED PROJECT CONTROL No.
66-16-01-03-0-004-014

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2025-1031

SHEET No.
G000

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
———	EX.	EXISTING TO REMAIN
———	NEW	NEW WORK
— — — —	DEM.	EXISTING TO BE REMOVED
	—	ELBOW UP
	—	ELBOW DOWN
	—	TEE DOWN
	—	TEE UP
	—	PIPE CAP OR FLUSHING CONNECTION
	—	GATE VALVE
	—	OS&Y GATE VALVE
	—	BUTTERFLY VALVE
	—	CHECK VALVE
	—	UNION
	—	TEMPERATURE GAGE
	—	PRESSURE GAGE
WF	—	WATER FLOW SWITCH
TS	—	TAMPER SWITCH
	—	INSPECTORS TEST CONNECTION
	—	FLOW ARROW
	—	SPRINKLER GUARD
○E OR ●E	—	EXISTING SPRINKLER TO REMAIN
OR	—	EXISTING SPRINKLER TO BE REMOVED
●N	—	NEW PENDENT SPRINKLER, CONCEALED OR EXPOSED AS NOTED.
○N	—	NEW UPRIGHT SPRINKLER
	—	SIDEWALL SPRINKLER
	—	POINT OF CONNECTION
	—	POINT OF DISCONNECTION
N1	—	HYDRAULIC REFERENCE NODE
S2	—	HYDRAULIC REFERENCE SPRINKLER
	FDC	FIRE DEPARTMENT CONNECTION
	FP	FIRE PUMP
—	AFF	ABOVE FINISHED FLOOR
—	AHC	ABOVE HUNG CEILING
—	ATC	AT CEILING

SYMBOL	ABBREVIATION	DESCRIPTION
—	BFP	BACKFLOW PREVENTOR
—	DCDA	DOUBLE CHECK DETECTOR ASSEMBLY
—	DCV	DOUBLE CHECK VALVE BFP
—	DN.	DOWN
—	FCA	FLOOR CONTROL ASSEMBLY
—	FD	FLOOR DRAIN
—	FLFD	FUNNEL FLOOR DRAIN
—	GPM	GALLONS PER MINUTE
—	JP	JOCKEY PUMP
—	NFPA	NATIONAL FIRE PROTECTION ASSOCIATION
—	(N0)	NORMALLY OPEN
—	(NC)	NORMALLY CLOSED
—	NTS	NOT TO SCALE
—	PRV	PRESSURE REDUCING VALVE
—	PSI	POUNDS PER SQUARE INCH
—	RPZ	REDUCED PRESSURE ZONE BFP
—	SF	SQUARE FOOT
—	TS	TAMPER SWITCH
—	TYP	TYPICAL
—	U.O.N.	UNLESS OTHERWISE NOTED

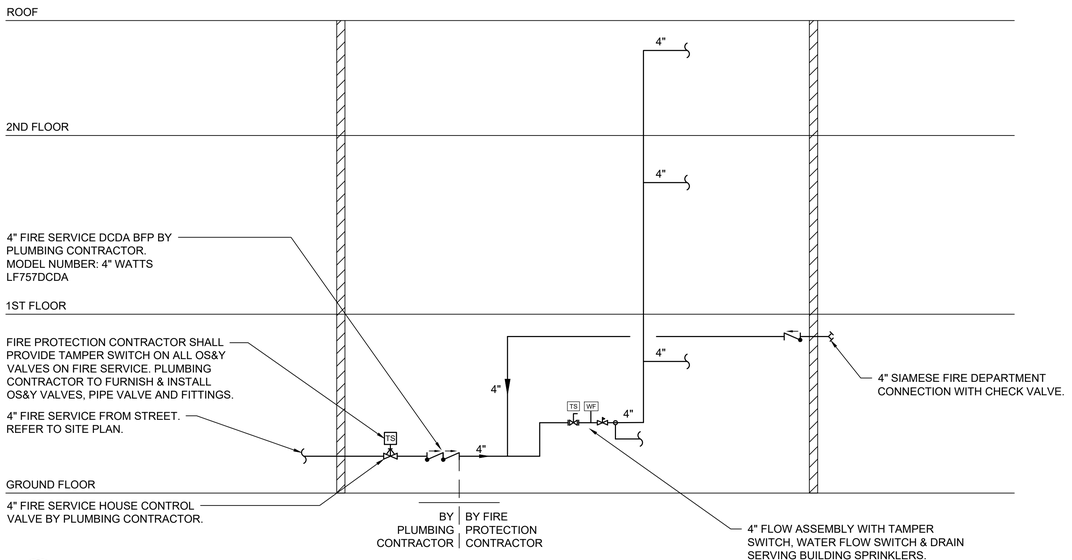
NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

GENERAL NOTES

1. THE SPRINKLER SYSTEM SHALL BE DESIGNED AND INSTALLED BY AN EXPERIENCED FIRE PROTECTION CONTRACTOR IN STRICT ACCORDANCE WITH NFPA-13, THE REQUIREMENTS OF THE DISTRICT, DISTRICT'S FIRE INSURANCE UNDERWRITER, AND ALL GOVERNMENTAL AGENCIES AND AUTHORITIES HAVING JURISDICTION OVER THE PREMESIS.
2. COORDINATE ALL WORK WITH OTHER TRADES TO MINIMIZE INTERFERENCES WITH NEW AND EXISTING FACILITIES, TO FACILITATE TIMELY COMPLETION AND AVOID NECESSITY FOR CUTTING AND PATCHING. FURNISH TO OTHER AFFECTED TRADES ALL NECESSARY INFORMATION, WORKING DRAWINGS OR MATERIALS REQUIRED FOR INSTALLATION AND COMPLETION OF ALL WORK. ALL CONFLICTS, OBSTRUCTIONS AND/OR MODIFICATIONS TO THE SPRINKLER DESIGN LAYOUT DUE TO FIELD CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRIOR TO FABRICATION AND INSTALLATION.
3. CONTRACTOR SHALL CONDUCT A HYDRANT FLOW TEST ON THE MUNICIPAL WATER MAIN SERVICING THE BUILDING TO ESTABLISH EXACT FLOW AND PRESSURE AVAILABLE ON THE SITE FOR PREPARATION OF HYDRAULIC CALCULATIONS.
4. SPRINKLER SHOP DRAWINGS SHALL BE SUBMITTED FULLY COORDINATED AND RECONCILED WITH SUBMITTED HYDRAULIC CALCULATIONS FOR REVIEW AND APPROVAL BY THE ENGINEER.
5. ALTER PIPING AS REQUIRED TO SUIT CEILING HEIGHTS, DUCTWORK, AND LIGHTS. PROVIDE AT NO EXTRA COST ALL ADDITIONAL PIPING AND FITTINGS REQUIRED TO OFFSET SYSTEM TO AVOID STRUCTURAL, ARCHITECTURAL, MECHANICAL, AND ELECTRICAL INTERFERENCES, WHETHER INDICATED OR NOT, BEFORE INSTALLING WORK.
6. WHEN INSTALLING SPRINKLER HEADS, THE CONTRACTOR SHALL PROVIDE THE SHORTEST HYDRAULIC PIPE LENGTH BETWEEN THE FINAL SPRINKLER HEAD LOCATION AND THE BRANCH LINE CONNECTION. MINIMUM 1" FOR TWO HEADS, 1-1/4" FOR THREE HEADS AND 1-1/2" FOR FIVE HEADS.
7. EXACT LOCATION OF SPRINKLER HEADS IN FINISHED AREAS SHALL BE COORDINATED WITH ARCHITECTURAL REFLECTED CEILING PLANS. SPRINKLER HEADS INSTALLED IN HUNG CEILING WILL BE POSITIONED AS FOLLOWS: LOCATED WITH TOLERANCE ± 1/2" OF THE CENTERLINE OF THE TILES.
8. INSTALL SPRINKLER HEADS TIGHT TO BOTTOM OF HUNG CEILING WITH CARE THAT THE FINISH IS NOT DAMAGED.
9. WHEN CONCEALED TYPE SPRINKLER HEADS ARE USED, THE COVER PLATES WILL BE FLUSH WITH THE CEILING PLANE TO LIMIT SHADOW EFFECT. TOLERANCE GREATER THAN ± 1/8" IS UNACCEPTABLE.
10. FLOW, TAMPER AND ALARM DEVICES MUST BE TIED INTO THE BUILDING'S FIRE ALARM SYSTEM. ALL REQUIRED EXTENDER PANELS, CODE TRANSMITTERS, ETC. AS MAY BE REQUIRED TO INTEGRATE THE SYSTEM EXPANSION SHALL BE FURNISHED AND INSTALLED BY THE SPRINKLER CONTRACTOR.
11. DRAIN VALVES AT MAIN SHUT-OFF VALVES, LOW POINTS, AND APPARATUS SHALL BE PROVIDED.
12. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH A LISTED FIRE STOPPING ASSEMBLY OR MATERIAL.
13. ALL HOSE CONNECTION AND FIRE DEPARTMENT CONNECTION THREADS SHALL BE TESTED TO VERIFY COMPATIBILITY WITH THREADS USED BY LOCAL FIRE DEPARTMENT, IN ACCORDANCE WITH NFPA-14 (2022) SECTION 11.3.
14. THE CONTRACTOR SHALL MAKE A PROVISION FOR (10) EXTRA SPRINKLERS INCLUDING IMMEDIATE BRANCH PIPING, FITTINGS AND ARM-OVERS. THE CONTRACTOR SHALL COORDINATE WITH FINAL CONFIGURATION OF OPEN AND HUNG CEILINGS, ALL HVAC DUCTWORK AND PIPING AND STRUCTURAL ELEMENTS THROUGHOUT THE AREA OF WORK.

SED NOTES

1. THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY.
2. GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:
   - 2.1. ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
   - 2.2. FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
   - 2.3. GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
   - 2.4. 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.
   - 2.5. WORKERS SHALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES.
3. 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 TO 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.
   - 3.1. 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.
   - 3.2. 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.
   - 3.3. 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.
4. 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.
5. 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.
6. 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.



2 SPRINKLER RISER DIAGRAM
SCALE: NONE

SPRINKLER HEAD SCHEDULE

SYM.	TYPE	LOCATION	FINISH	MANUF.	MODEL	HEAD TEMP	MAX CLG TEMP.	ORIFICE	K-FACTOR
○	UPRIGHT	FINISHED AREAS PER PLANS	CHROME PLATED	RELIABLE	F1FR	165°F	100°F	1/2"	5.6
●	CONCEALED PENDENT	FINISHED AREAS PER PLANS	COVER PLATE. COLOR PER ARCHITECT	RELIABLE	G5	165°F	100°F	1/2"	5.6
●	CONCEALED PENDENT	FINISHED AREAS PER PLANS	COVER PLATE. COLOR PER ARCHITECT	RELIABLE	G5	212°F	150°F	1/2"	5.6

NOTES:
1. SPRINKLERS BASED ON RELIABLE AUTOMATIC SPRINKLER COMPANY, INC. OR APPROVED EQUAL.
2. SPRINKLERS SHALL BE INSTALLED AS PER MANUFACTURER'S RECOMMENDATIONS.
3. PROVIDE METAL WIRE GUARDS WHERE SPRINKLERS ARE SUBJECT TO DAMAGE, SUCH AS SPRINKLER HEADS LOCATED UNDER MECHANICAL DUCTS IN MECHANICAL EQUIPMENT ROOMS WHEN LOCATED LOWER THAN 7'-0" AFF.
4. ALL SPRINKLER HEADS THROUGHOUT THE PROJECT AREA SHALL BE OF THE ORDINARY TEMPERATURE RATING EXCEPT AS FOLLOWS:
   - A. SPRINKLER HEADS LOCATED CLOSE TO HEATERS, KITCHEN COOKING EQUIPMENT, STEAM PIPING OR LOW-PRESSURE BLOW-OFF VALVE SHALL BE OF THE TEMPERATURE RATING AS REQUIRED BY NFPA-13.
   - B. ALL HEAT GENERATING EQUIPMENT WHICH CAN AFFECT THE TEMPERATURE RATING OF THE SPRINKLER HEADS SHALL BE CLEARLY IDENTIFIED ON THE SHOP DRAWINGS PRIOR TO SUBMISSION FOR APPROVAL.

1 SPRINKLER HEAD SCHEDULE
SCALE: NONE

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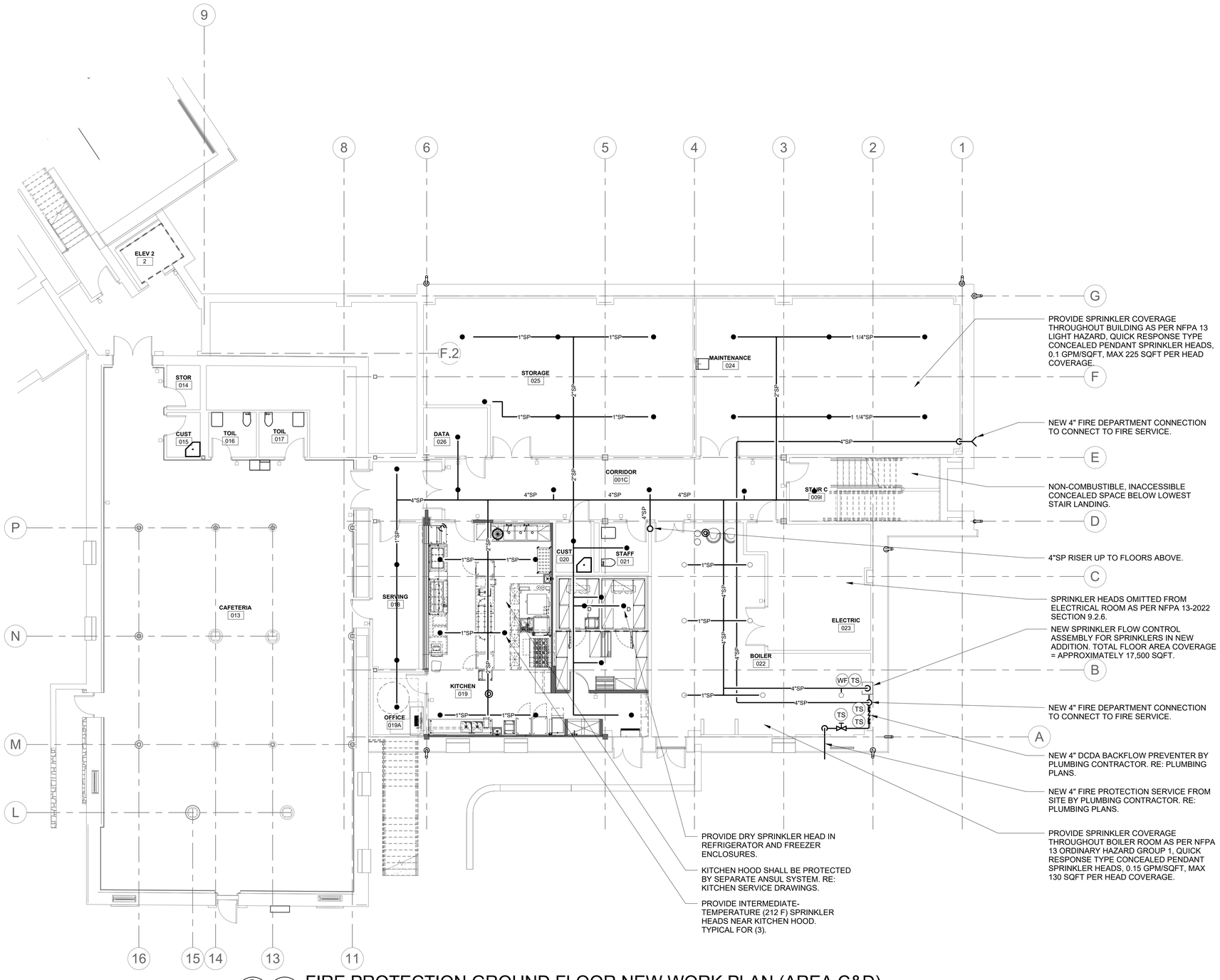
NYSED PROJECT CONTROL No.
66-16-01-03-0-004-014

DATE: 11/12/2026
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NKGD0292.00

SHEET TITLE
FIRE PROTECTION SYMBOLS, NOTES, AND GENERAL ABBREVIATIONS

SHEET No.
FP001



1 NORTH

FIRE PROTECTION GROUND FLOOR NEW WORK PLAN (AREA C&D)

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

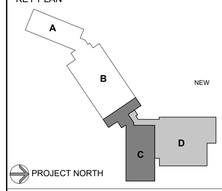
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KEY PLAN



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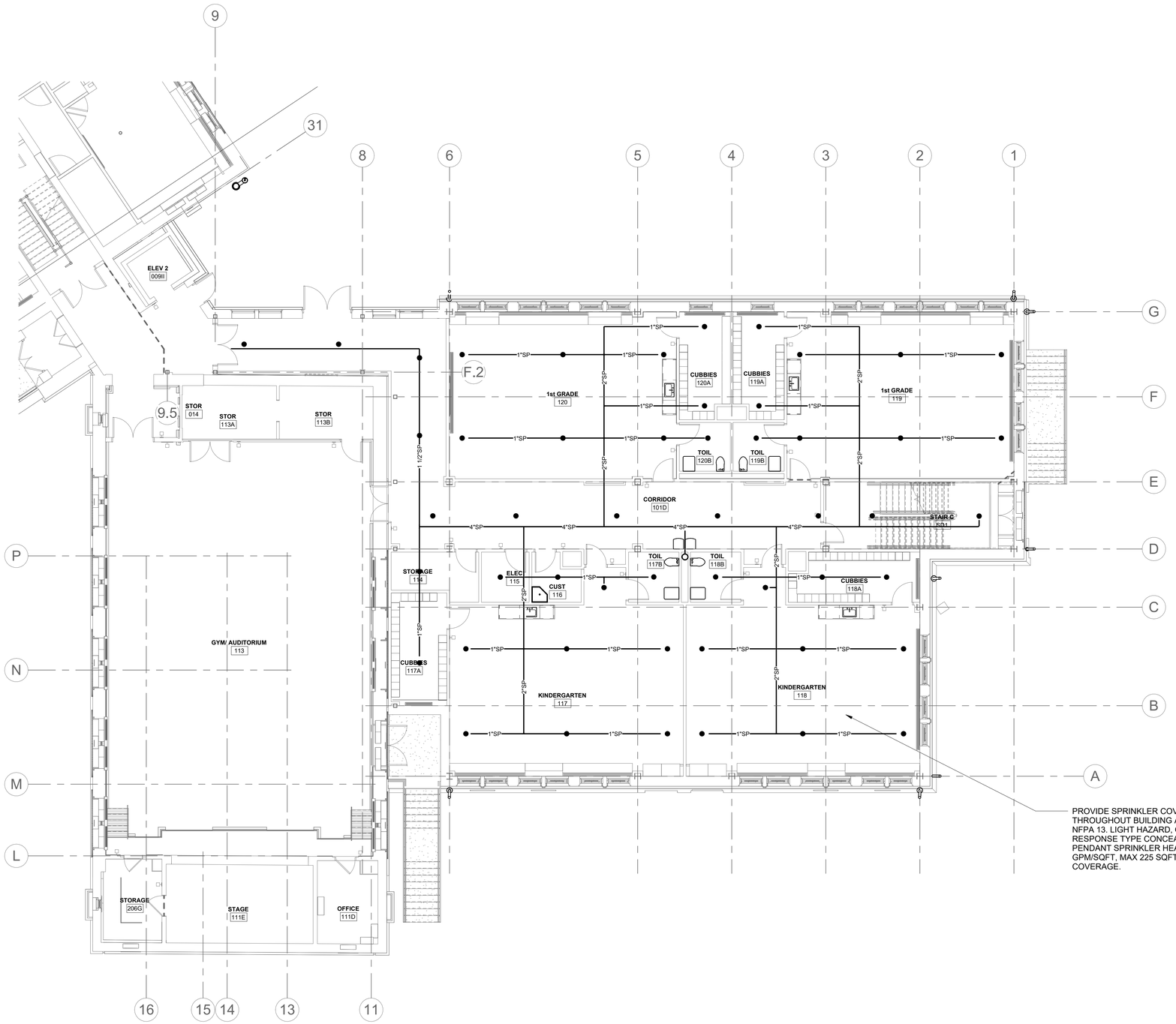
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SHEET TITLE
FIRE PROTECTION GROUND FLOOR NEW WORK PLAN (AREA C&D)

SHEET No.
FP201

11/9/2026 2:18:27 PM



NORTH

1 FIRE PROTECTION FIRST FLOOR NEW WORK PLAN (AREA C&D)

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

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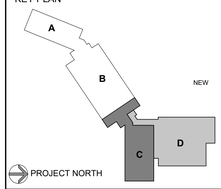
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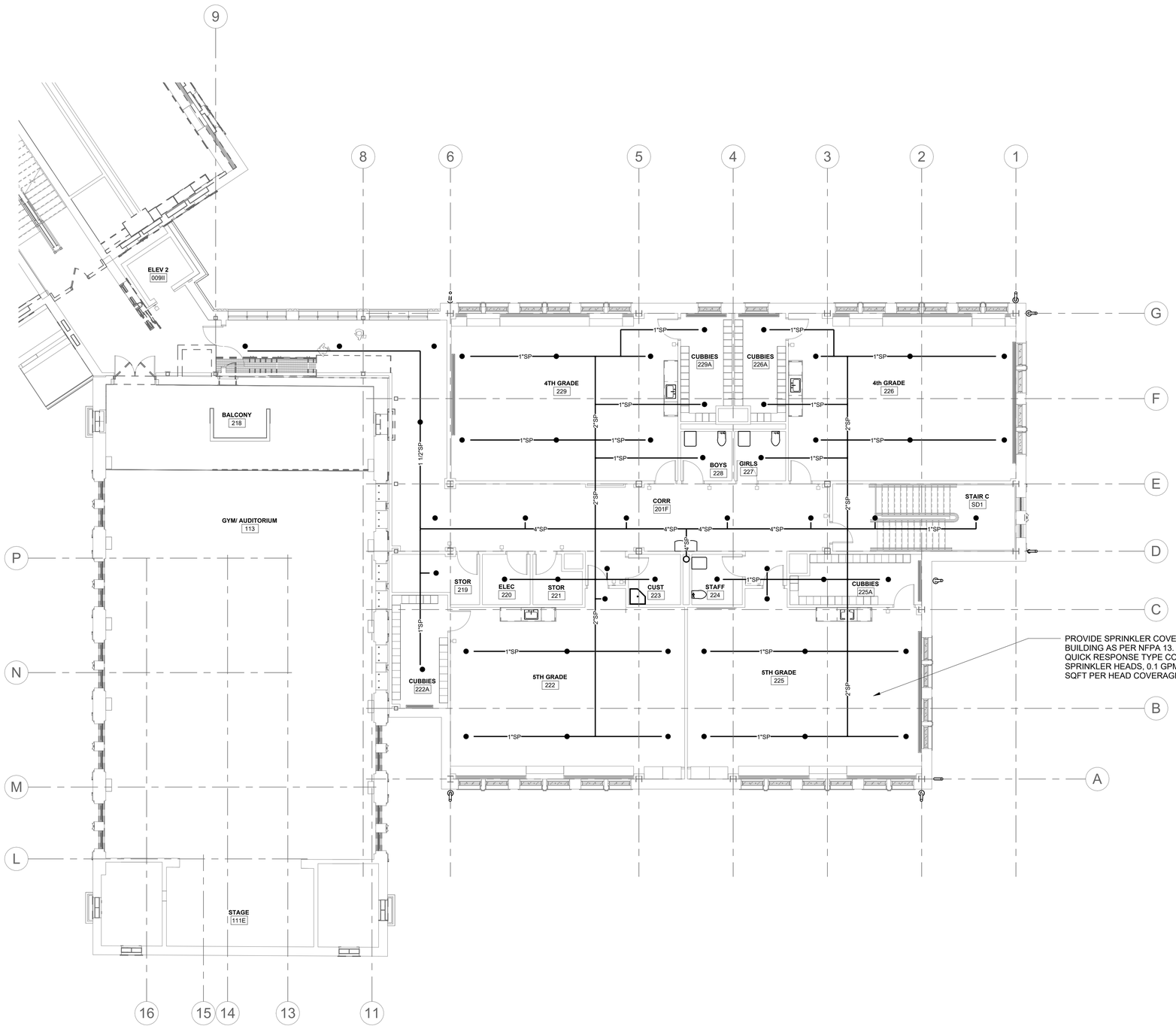
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SHEET TITLE
FIRE PROTECTION FIRST FLOOR NEW WORK PLAN (AREA C&D)

SHEET No.
FP202



NORTH

1 FIRE PROTECTION SECOND FLOOR NEW WORK PLAN (AREA C&D)

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

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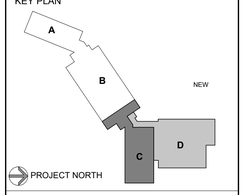
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KEY PLAN



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SHEET TITLE
FIRE PROTECTION SECOND FLOOR NEW WORK PLAN (AREA C&D)

SHEET No.
FP203

EQUIPMENT NOTES

1. FLOOR CONTROL VALVE ASSEMBLY: SHALL BE BASED ON VICTAULIC FIRELOCK COMMERCIAL ZONE RISER MODULE WITH DRAIN CONNECTION AND SIGHT GLASS. PROVIDE VICTAULIC FIRELOCK BUTTERFLY VALVE AND CHECK VALVE OR EQUAL BEFORE RISER MODULE. PROVIDE WATER FLOW ALARMS WHERE INDICATED ON THE DRAWINGS AS MANUFACTURED BY POTTER-ROEMER AND EQUAL TO MODEL NO. 6200 SERIES.

2. WATER FLOW ALARM SWITCH: WATERFLOW ALARM SWITCH SHALL BE PROVIDED TO INDICATE WATER FLOW AND PROVIDE A WATER FLOW ALARM. FLOWSWITCH IS BASED ON POTTER VSR SERIES. SWITCH SHALL BE UL LISTED, FM APPROVED AND ENCLOSED IN A WEATHERPROOF, 4X, NEMA 4-RATED ENCLOSURE INCORPORATING TAMPER-RESISTANT SCREWS. THERE SHALL BE TWO SETS OF SPDT (FORM C) CONTACTS RATED AT 10.0 A @ 125/250 VAC AND 2.5 A @6/12/24 VDC.

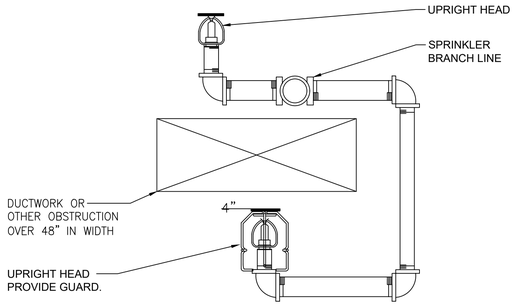
3. TAMPER SWITCHES: SHALL BE AS MANUFACTURED BY POTTER ELECTRIC SIGNAL CO. FOR EACH POSSIBLE SHUT-OFF VALVE TYPE:
   - MODEL OSYSU-2 - FOR OS&Y VALVES.
   - MODEL PCVS-2 - FOR BUTTERFLY VALVES.
   - MODEL RBVS - FOR BALL VALVES.
   - MODEL PTS-C PLUG TYPE - FOR GATE VALVES.

   THIS CONTRACTOR SHALL BE RESPONSIBLE FOR FURNISHING AND INSTALLING ALL TAMPER, WATER FLOW, PRESSURE, TEMPERATURE, WATER LEVEL, ETC. SWITCHES AND ALARMS. COORDINATE WITH FIRE ALARM CONTRACTOR TO ENSURE ALL REQUIRED ALARMS / SIGNALS ARE COMPATIBLE AND REPORT TO FIRE ALARM PANEL.

6. FIRE DEPARTMENT CONNECTION: SHALL BE BASED ON POTTER ROEMER TWO-WAY FLUSH FIRE DEPT INLET CONNECTION MODEL #5025, 6" BACK OUTLET x 2-1/2" DUAL INLETS, CAST BRASS BODY, UL LISTED, LETTERING "AUTO SPRINKLER".

DESIGN CRITERIA		
HAZARD CLASSIFICATION(1)	DENSITY(2)	PROTECTION AREA PER SPRINKLER(3)
LIGHT HAZARD	0.1 GPM / 1500 SQ. FT.	225 SQ. FT. MAX
ORDINARY HAZARD GROUP 1	0.15 GPM / 1500 SQ. FT.	130 SQ. FT. MAX

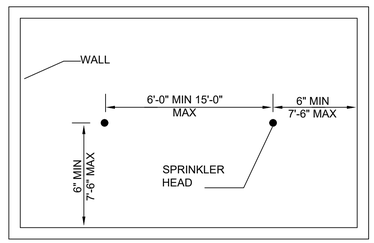
NOTES:
1.) HAZARD CLASSIFICATION, DENSITY AND MAX. PROTECTION AREA SHALL BE IN ACCORDANCE WITH NFPA 13 - 2022 RECOMMENDATIONS UNLESS OTHERWISE NOTED.
2.) WHERE REQUIRED BY THE BUILDING DEPARTMENT OR AUTHORITY HAVING JURISDICTION FOR PERMIT, THE ENTIRE SYSTEM SHALL BE HYDRAULICALLY CALCULATED.
3.) THE MINIMUM PRESSURE AT EACH SPRINKLER HEAD SHALL BE 7 PSI.
4.) EQUIVALENT FITTING LENGTHS USED IN HYDRAULIC CALCULATIONS SHALL BE IN ACCORDANCE WITH NFPA 13 - 2022.
5.) DISCHARGE FROM EACH SPRINKLER SHALL NOT BE LESS THAN REQUIRED AREA COVERAGE BY THIS HEAD. AREA COVERAGE PER HEAD SHALL BE DETERMINED IN ACCORDANCE WITH NFPA 13 SECTION 10.2.4.2.1 (2022).
6.) HYDRAULIC CALCULATIONS SHALL BE BROUGHT BACK TO THE CONNECTION TO THE STREET. FLOW VELOCITY IN SPRINKLER PIPING SHALL NOT EXCEED 20 FEET PER SECOND (FPS).



NOTES:

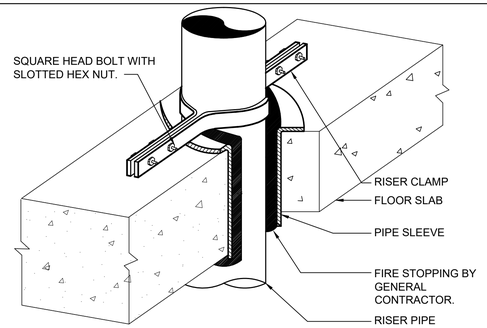
1. SPRINKLER CONTRACTOR SHALL SPRINKLER ABOVE AND BELOW DUCT OR OTHER OBSTRUCTION OVER 48" IN WIDTH.
2. SPRINKLER CONTRACTOR SHALL COORDINATE WITH THE HVAC AND GENERAL CONTRACTOR.

8 SPRINKLER ABOVE AND BELOW DUCT DETAIL
SCALE: NONE

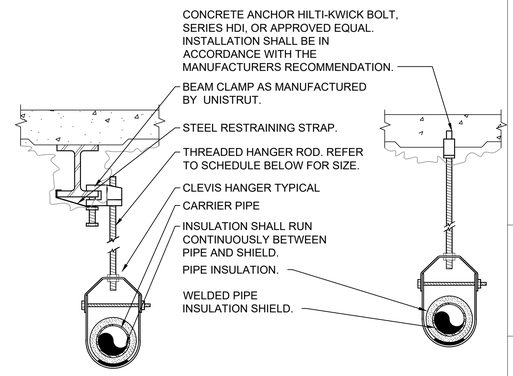


	MAX AREA PER HEAD	DENSITY PER 1500 SQ. FT
LIGHT HAZARD	225 SQ. FT.	0.10 GPM/SQ. FT.
ORDINARY HAZARD	130 SQ. FT.	0.16 GPM/SQ. FT.

5 SPRINKLER HEAD SPACING CRITERIA
SCALE: NONE



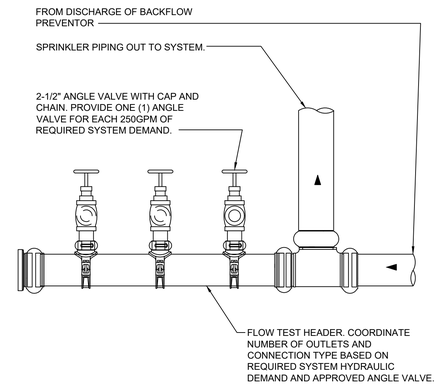
4 VERTICAL PIPE SUPPORT
SCALE: NONE



PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"–2"	2 1/2"–3"	4"–5"	6"	8"–12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

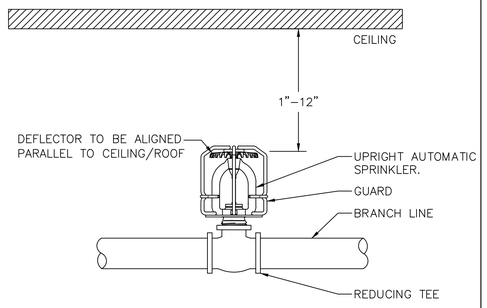
NOTES:
1.) CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
2.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
3.) FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4.) ALL PIPE HANGERS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

2 PIPE HANGER DETAIL
SCALE: NONE

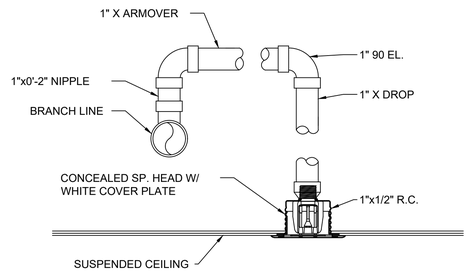


NOTE:
1) NOT REQUIRED WHERE FULL FORWARD FLOW TEST MAY BE ACCOMPLISHED THROUGH STANDPIPE SYSTEM.
2) FLOW TEST HEADER SHALL BE 4" MINIMUM SIZE FOR UP TO TWO (2) ANGLE VALVES. MINIMUM 6" FOR THREE (3) - FOUR (4) VALVES.
3) ANGLE VALVES SHALL BE LISTED FOR FIRE PROTECTION USE AND MAY BE GROOVED OR THREADED INLET.
4) TEST HEADER SHALL BE SUPPORTED AND BRACED.

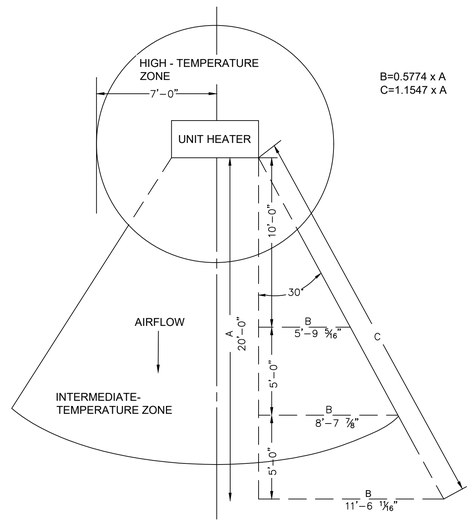
9 TYPICAL BACKFLOW PREVENTER SPRINKLER SYSTEM FORWARD FLOW TEST ASSEMBLY
SCALE: NONE



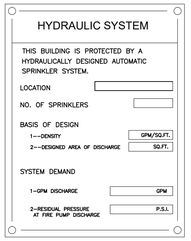
7 TYPICAL UPRIGHT SPRINKLER WITH GUARD
SCALE: NONE

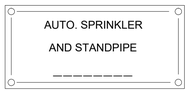


6 TYPICAL CONCEALED PENDENT SPRINKLER
SCALE: NONE

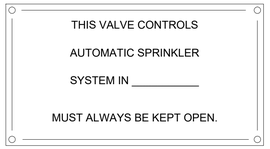


3 SPRINKLER TEMPERATURE ZONES AT UNIT HEATERS
SCALE: NONE















1 TYPICAL SIGNS
SCALE: NONE

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SHEET TITLE

FIRE PROTECTION DETAILS

SHEET No.
FP701

SYMBOL & ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
	EX.	EXISTING TO REMAIN
	REL.	REMOVE AND RELOCATE
	NEW	NEW WORK
	DEM.	EXISTING TO BE REMOVED
	CW	COLD WATER
	HW	HOT WATER
	HWC	HOT WATER RECIRCULATION
	V	VENT
	W	WASTE LINE
	S	SANITARY
	G	GAS LINES
	LDR	LEADER
	SD	STORM DRAINAGE
	PD	PUMP DISCHARGE
	-	3-WAY VALVE
	-	BUTTERFLY VALVE
	-	2-WAY VALVE
	-	PLUG VALVE
	-	SOLENOID VALVE
	-	GATE VALVE
	-	GLOBE VALVE
	-	CHECK VALVE
	-	OS&Y GATE VALVE
	-	BALL VALVE
	-	CIRCUIT SETTER
	-	MANUAL AIR VENT
	-	T&P RELIEF VALVE
	-	PRESSURE REDUCING VALVE
	-	TEE DOWN
	-	ELBOW DOWN
	-	TEE UP
	-	ELBOW UP
	-	PIPE CAP
	CODP	CLEAN OUT DECK PLATE
	WCO	WALL CLEAN OUT
	FCO	FLOOR CLEAN OUT
	FLFD	FUNNEL FLOOR DRAIN
	-	CONCENTRIC REDUCER
	-	ECCENTRIC REDUCER
	-	STRAINER
	-	FLEXIBLE CONNECTION
	-	FLOW ARROW
	-	PRESSURE GAGE
	-	PUMP
	-	THERMOMETER
	-	BASKET STRAINER
	-	HOSE BIB
	RD	ROOF DRAIN
	FD	FLOOR DRAIN
	-	UNION
P T	-	RISER TAG
	-	EYE WASH
	-	WALL HYDRANT
–	AFF	ABOVE FINISHED FLOOR
–	AHC	ABOVE HUNG CEILING
–	BFP	BACK FLOW PREVENTOR
–	VTR	VENT THROUGH ROOF
–	FS	FLOOR SINK
–	HWH	HOT WATER HEATER

SYMBOL	ABBREVIATION	DESCRIPTION
–	FAI	FRESH AIR INTAKE
–	RPZ	REDUCED PRESSURE ZONE - BFP
–	BP	BOOSTER PUMP
–	RP	RECIRCULATION PUMP
–	DCV	DOUBLE CHECK VALVE - BFP
–	TYP	TYPICAL

NOTE: FOR REFERENCE ONLY. NOT ALL SYMBOLS OR ABBREVIATIONS ARE USED IN THIS PROJECT.

GENERAL NOTES

1. THE CONTRACT DRAWINGS INDICATE THE EXTENT AND GENERAL ARRANGEMENTS OF THE PLUMBING SYSTEMS. IF ANY DEPARTURES FROM THE DRAWINGS ARE DEEMED NECESSARY BY THE PLUMBING CONTRACTOR, DETAILS OF SUCH DEPARTURES AND THE REASONS THEREFORE SHALL BE SUBMITTED TO THE OWNER AND ENGINEER FOR APPROVAL. NO SUCH DEPARTURES SHALL BE MADE WITHOUT PRIOR WRITTEN APPROVAL OF THE OWNER AND ENGINEER. EQUIPMENT AND PIPING ARRANGEMENTS SHALL PROVIDE ADEQUATE AND ACCEPTABLE CLEARANCES FOR ENTRY, SERVICING, AND MAINTENANCE. ANY CHANGES TO PIPING AND EQUIPMENT LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST.
2. THE PLUMBING WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH THE LATEST EDITION OF THE PREVAILING NEW YORK STATE PLUMBING AND BUILDING CODES. IN CASE OF CONFLICT BETWEEN THE CONTRACT DOCUMENTS AND A GOVERNING CODE OR ORDINANCE, THE MORE STRINGENT STANDARD SHALL APPLY.
3. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
4. CONNECTIONS TO EXISTING AND NEW UTILITIES AND SERVICES ARE SHOWN ACCORDING TO THE BEST INFORMATION AVAILABLE. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS, INVERT ELEVATIONS, AND SIZES OF PLUMBING SERVICES IN FIELD, AND SHALL CONNECT NEW PLUMBING SERVICES AS INDICATED ON DRAWINGS.
5. PRIOR TO FABRICATION, THIS CONTRACTOR SHALL VERIFY ALL MEASUREMENTS AND CONDITIONS ON JOB SITE, AND COORDINATE THIS WORK WITH THE WORK OF ALL OTHER TRADES.
6. ALL ACCESS PANELS SHALL BE BY GENERAL CONTRACTOR. THE PLUMBING CONTRACTOR SHALL BE RESPONSIBLE FOR THEIR LOCATION.
7. PROVIDE ALL PLUMBING FIXTURES, PIPING, VALVES AND ACCESSORY ITEMS AS SPECIFIED AND AS REQUIRED FOR A COMPLETE INSTALLATION. ROUGHING DIMENSIONS OF FIXTURES MUST BE COORDINATED WITH THE GENERAL CONTRACTOR.
8. PITCH ALL WASTE, SANITARY, AND STORM DRAIN PIPING AT MAXIMUM SLOPE POSSIBLE, BUT NOT LESS THAN 1/8" PER FOOT FOR PIPING ≥ 3" AND 1/4" PER FOOT FOR PIPING ≤ 2½".
9. NO PIPING SHALL RUN EXPOSED IN FINISHED AREAS.
10. PROVIDE DIELECTRIC FITTINGS OR COUPLINGS WHEREVER DISSIMILAR METALS ARE JOINED.
11. PROVIDE SHUTOFF VALVES AT ALL FIXTURES AND EQUIPMENT ON COLD WATER, AND HOT WATER PIPES.
12. ALL WORK SHALL BE PROPERLY TESTED, BALANCED, AND CLEANED AND DISINFECTED. PROVIDE A ONE YEAR WARRANTY FROM DATE OF FINAL INSPECTION ON ALL PARTS AND LABOR.
13. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
14. THE PLUMBING CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, PAINTING, ACCESS PANELS, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF PLUMBING 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 PLUMBING WORK.
15. NEW PIPING LAYOUT IS PREDICATED ON RECORD DRAWING DATA OF EXISTING RISERS AND DRAWINGS. MODIFICATIONS TO THE LAYOUT MAY BE REQUIRED DUE TO DIFFERENT ACTUAL CONDITIONS, OBSTRUCTIONS, INTERFERENCES, ETC.
16. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR PLUMBING EQUIPMENT SHALL BE FURNISHED BY THE PLUMBING CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE PLUMBING CONTRACTOR FOR PLUMBING EQUIPMENT SHALL BE HEAVY DUTY TYPE.
17. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.

SED NOTES

1. THE OCCUPIED PORTION OF ANY SCHOOL BUILDING SHALL ALWAYS COMPLY WITH THE MINIMUM REQUIREMENTS NECESSARY TO MAINTAIN A CERTIFICATE OF OCCUPANCY.
2. GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:
   - 2.1. ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
   - 2.2. FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
   - 2.3. GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
   - 2.4. 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.
   - 2.5. WORKERS SHALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES.
3. 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 TO 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.
   - 3.1. 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.
   - 3.2. 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.
   - 3.3. 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.
4. 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.
5. 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.
6. 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.

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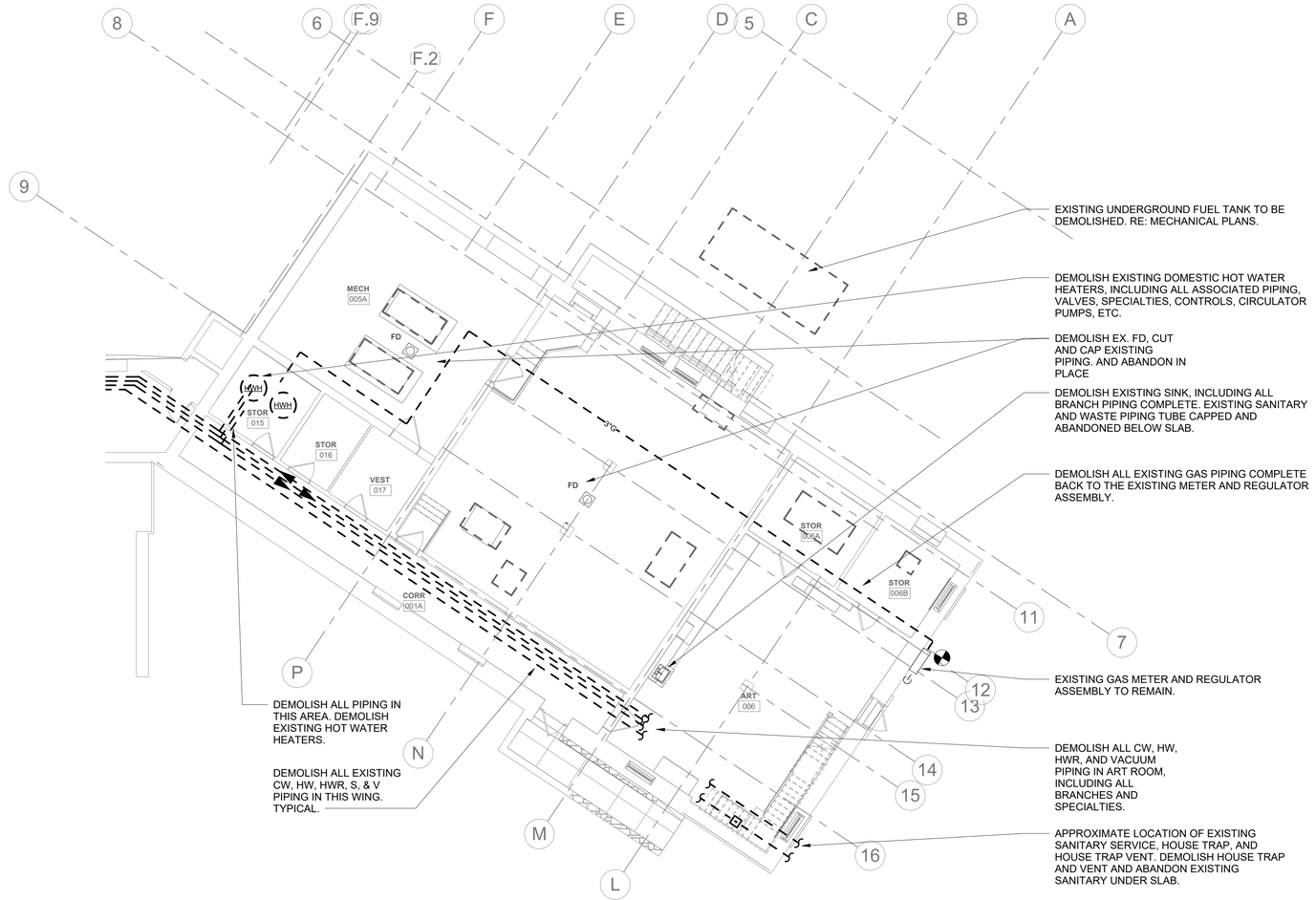
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SHEET TITLE
PLUMBING SYMBOLS, NOTES, AND GENERAL ABBREVIATIONS

SHEET No.
P001



1 NORTH

PLUMBING GROUND FLOOR DEMOLITION PLAN (AREA C)

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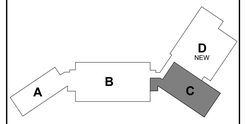
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KEY PLAN



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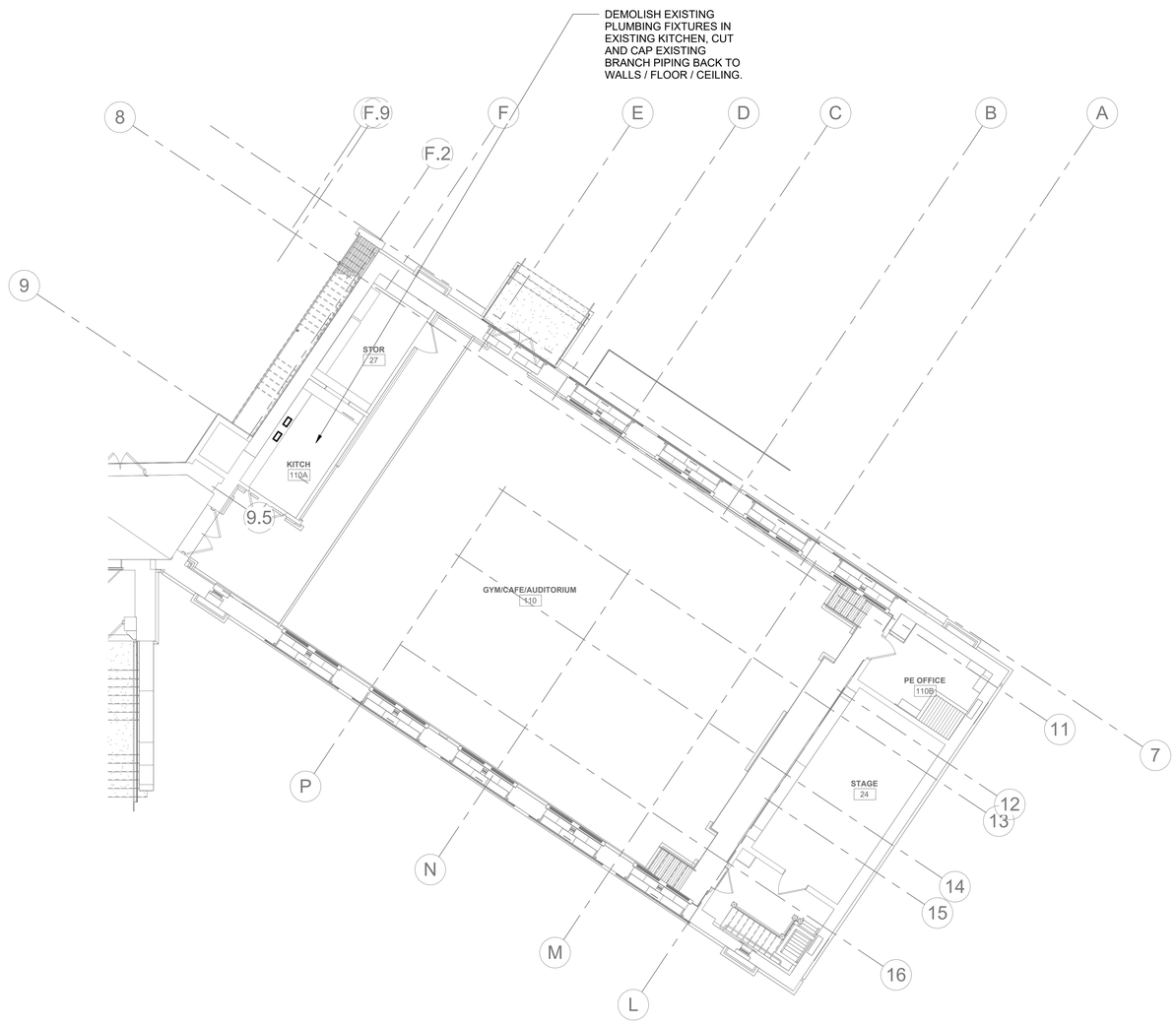
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SHEET TITLE

PLUMBING GROUND FLOOR DEMOLITION PLAN (AREA C)

SHEET No.

P101



1 PLUMBING FIRST FLOOR DEMOLITION PLAN (AREA C)

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NORTH

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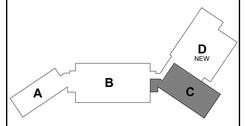
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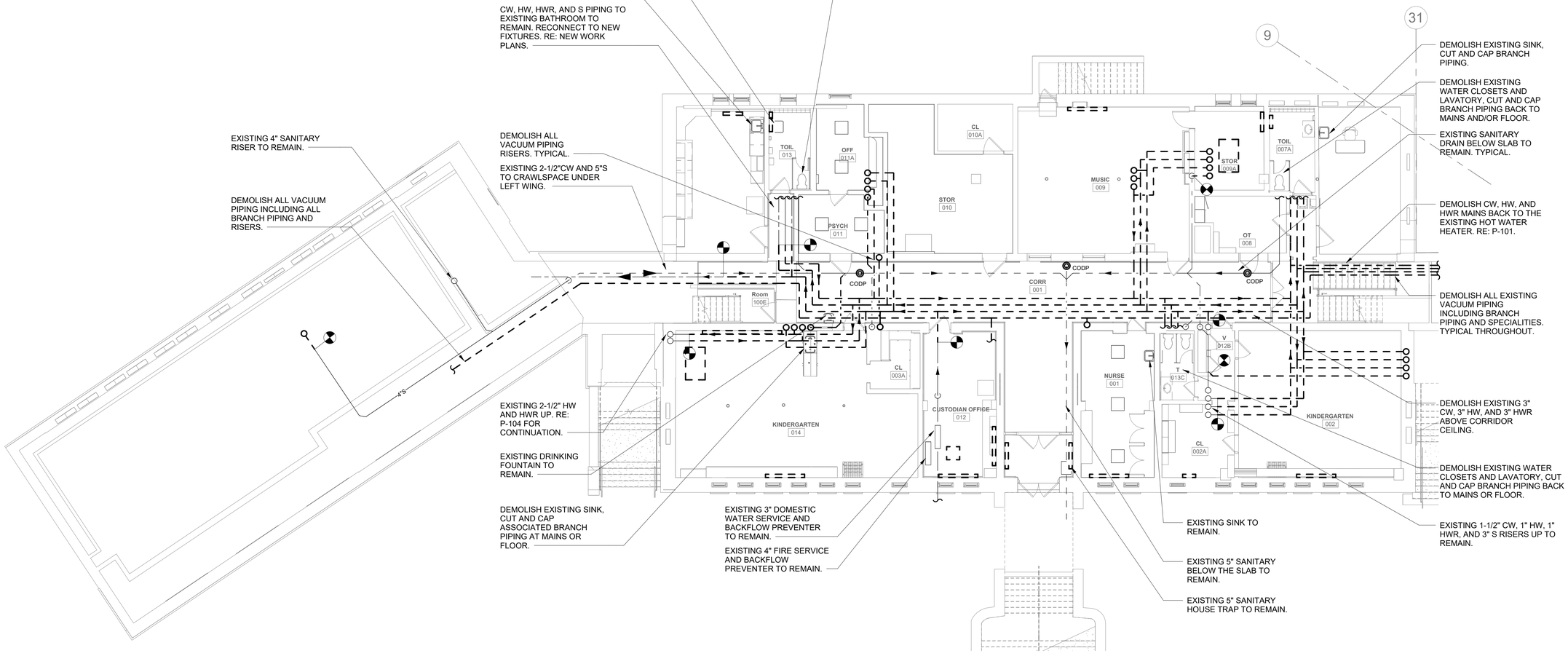
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SHEET TITLE

PLUMBING FIRST FLOOR DEMOLITION PLAN (AREA C)

SHEET No.

P102



1 PLUMBING GROUND FLOOR DEMOLITION PLAN (AREA B)

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NORTH

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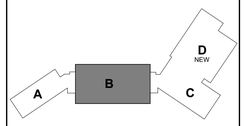
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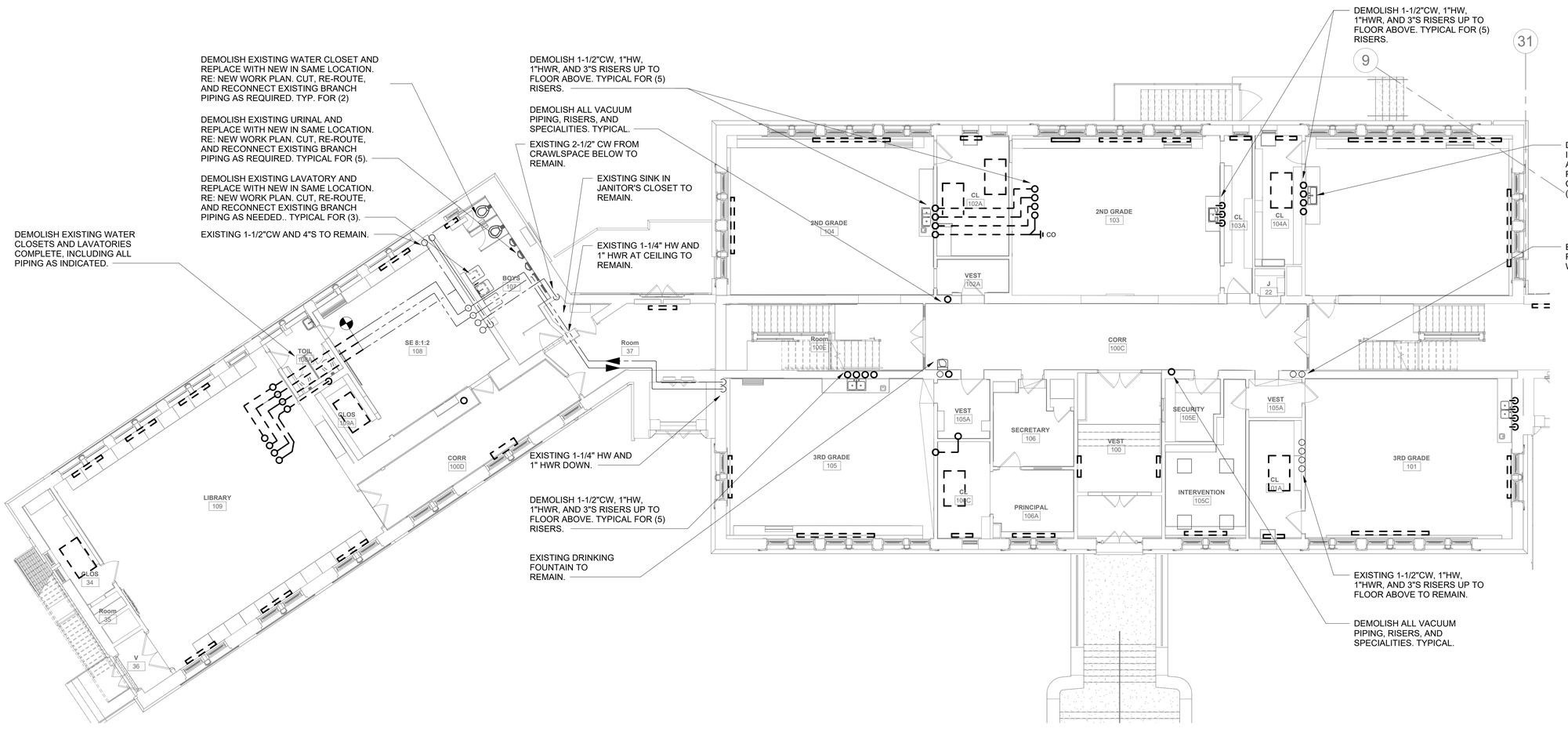
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SHEET TITLE

PLUMBING GROUND FLOOR DEMOLITION PLAN (AREA A&B)

SHEET No.

P103



1 PLUMBING FIRST FLOOR DEMOLITION PLAN (AREA A&B)

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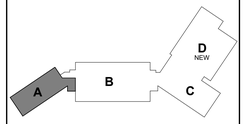
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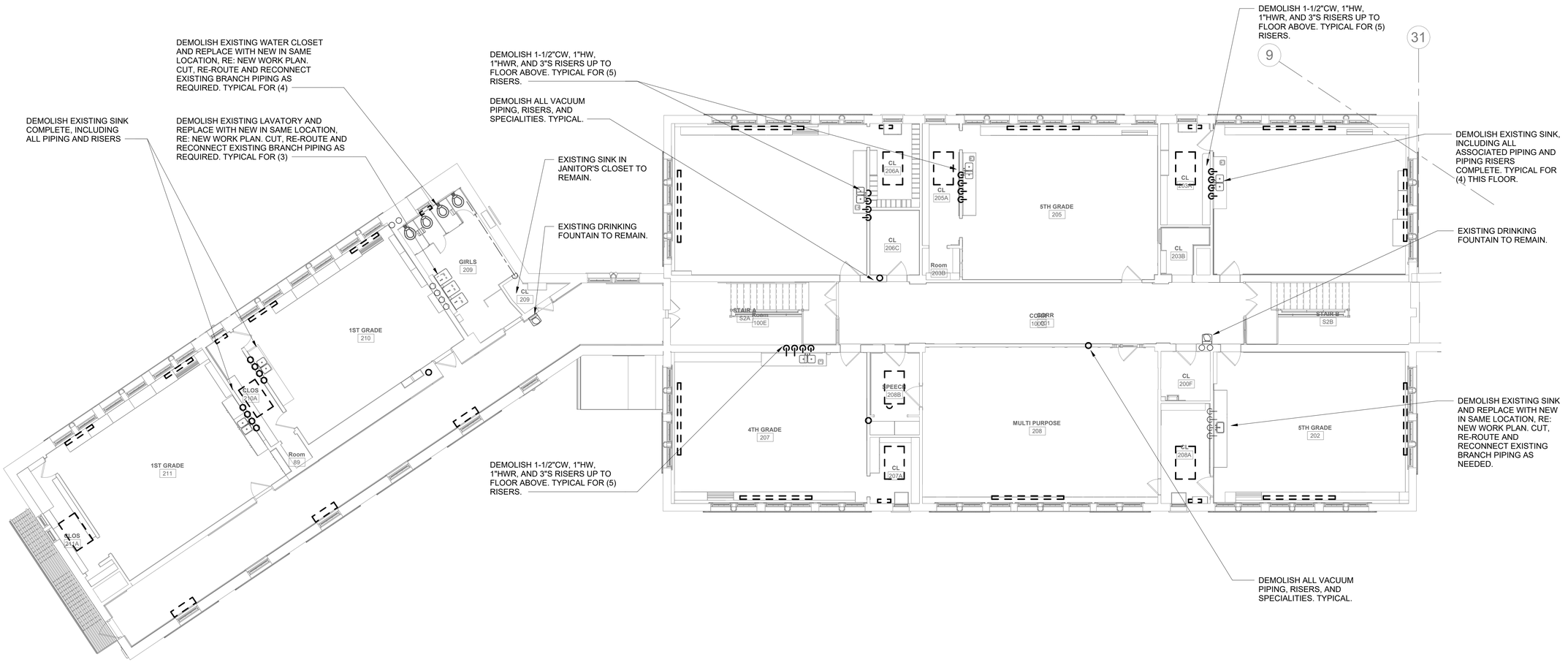
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SHEET TITLE

PLUMBING FIRST FLOOR DEMOLITION PLAN (AREA A&B)

SHEET No.

P104



1 NORTH

PLUMBING SECOND FLOOR DEMOLITION PLAN (AREA A&B)

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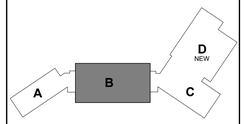
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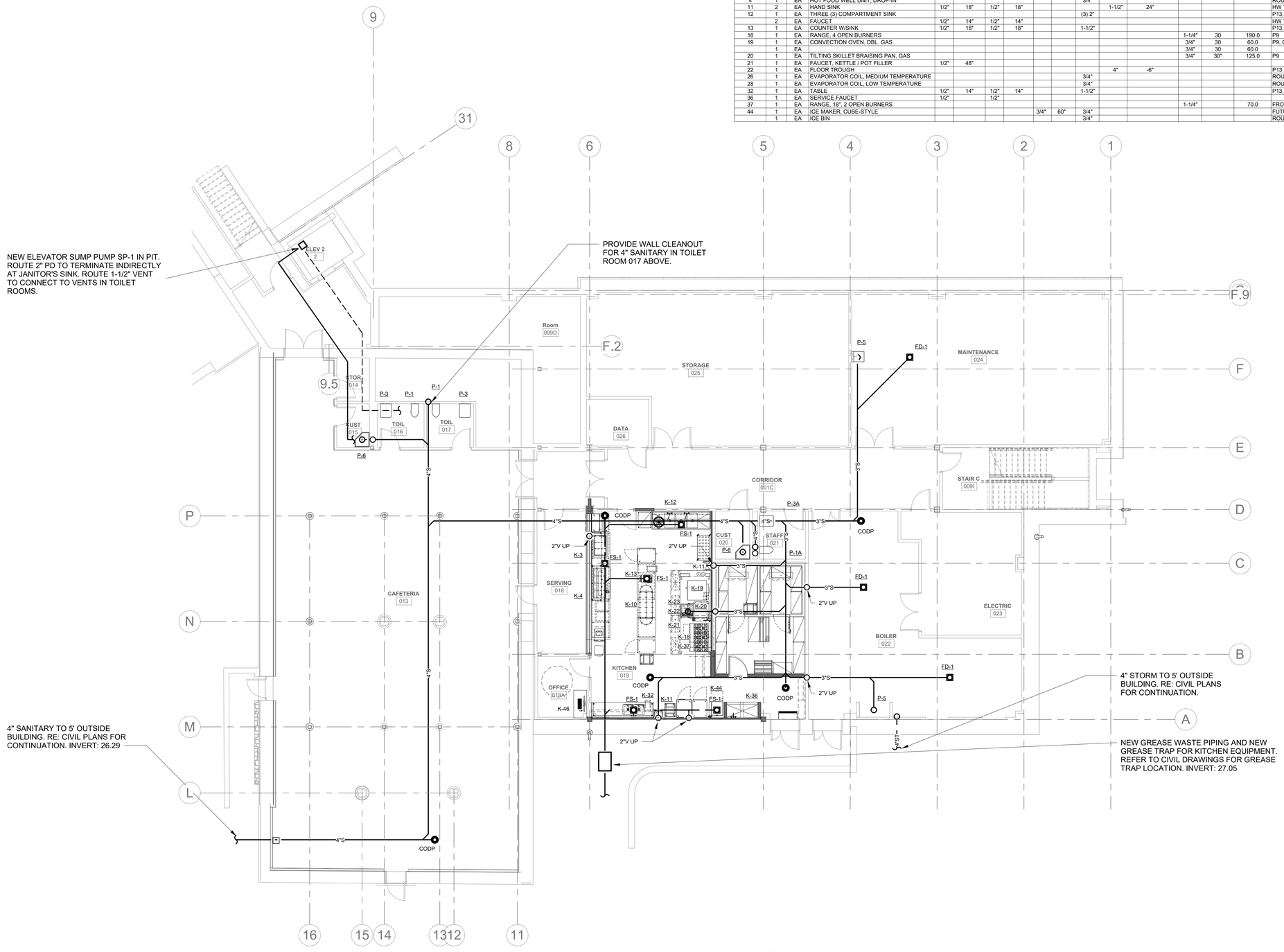
PLUMBING SECOND FLOOR DEMOLITION PLAN (AREA A&B)

SHEET No.

P105

FOODSERVICE PLUMBING SCHEDULE

ITEM NO	QTY	UNIT	ITEM NAME	CW	CW AFF	HW	HW AFF	FW	FW AFF	IW	DW	DIRECT WASTE CONN. HEIGHT(IN)	GAS	GAS AFF	GAS MBTU	REMARKS	ITEM NO
3	1	EA	REFRIGERATED WELL, DROP-IN							1"						ROUTE TO FLOOR SINK	3
4	1	EA	HOT FOOD WELL UNIT, DROP-IN							3/4"						ROUTE TO FLOOR SINK	4
11	2	EA	HAND SINK	1/2"	18"	1/2"	18"				1-1/2"	24"				HW TEMP - 110°	11
12	1	EA	THREE (3) COMPARTMENT SINK							(3) 2"						P13, ROUTE TO FLOOR SINK	12
	2	EA	FAUCET	1/2"	14"	1/2"	14"									HW TEMP - 140°	
13	1	EA	COUNTER W/SINK	1/2"	18"	1/2"	18"			1-1/2"						P13, HW TEMP - 140°, ROUTE TO FLOOR SINK	13
18	1	EA	RANGE, 4 OPEN BURNERS										1-1/4"	30	190.0	P9	18
19	1	EA	CONVECTION OVEN, DBL. GAS										3/4"	30	60.0	P9, GAS MANIFOLD	19
	1	EA											3/4"	30	60.0		
20	1	EA	TILTING SKILLET BRAISING PAN, GAS										3/4"	30"	125.0	P9	20
21	1	EA	FAUCET, KETTLE / POT FILLER	1/2"	48"												21
22	1	EA	FLOOR TROUGH								4"	-6"				P13	22
26	1	EA	EVAPORATOR COIL, MEDIUM TEMPERATURE							3/4"						ROUTE TO FLOOR SINK	26
28	1	EA	EVAPORATOR COIL, LOW TEMPERATURE							3/4"						ROUTE TO FLOOR SINK	28
32	1	EA	TABLE	1/2"	14"	1/2"	14"			1-1/2"						P13, HW TEMP - 140°, ROUTE TO FLOOR SINK	32
36	1	EA	SERVICE FAUCET	1/2"		1/2"											36
37	1	EA	RANGE, 18", 2 OPEN BURNERS										1-1/4"		70.0	FRONT MANIFOLD W/15	37
44	1	EA	ICE MAKER, CUBE-STYLE					3/4"	60"	3/4"						FUTURE, P2, P10	44
	1	EA	ICE BIN							3/4"						ROUTE TO FLOOR SINK	



1 PLUMBING SUB SLAB NEW WORK PLAN (AREA C&D)

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

NORTH

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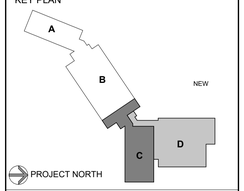
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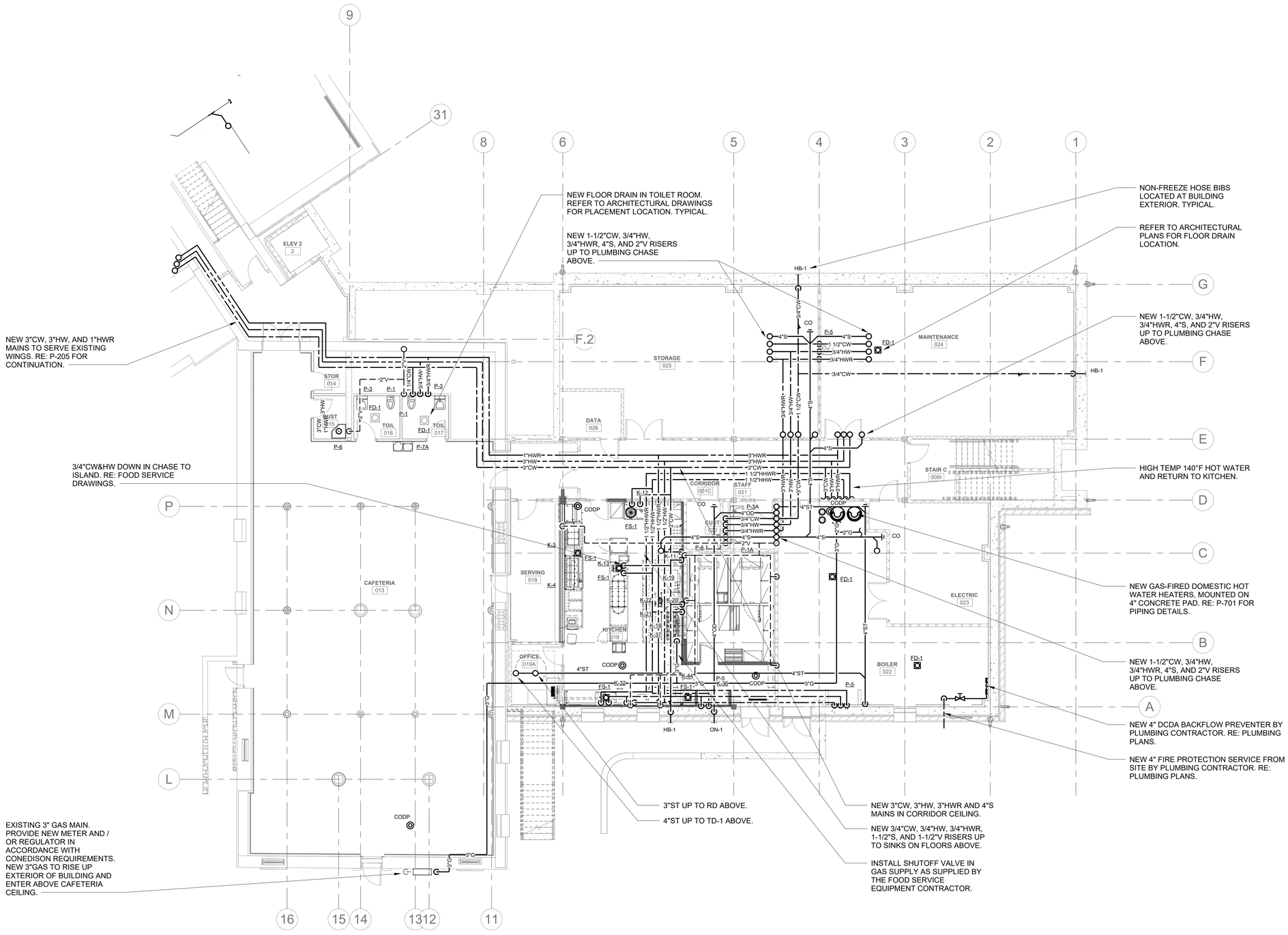
PROJECT No.
NKGD0292.00

SHEET TITLE

PLUMBING SUB SLAB NEW WORK PLAN (AREA C&D)

SHEET No.

P200



1 PLUMBING GROUND FLOOR NEW WORK PLAN (AREA C&D)

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

NORTH

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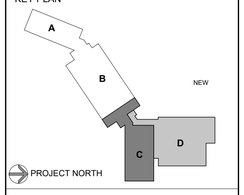
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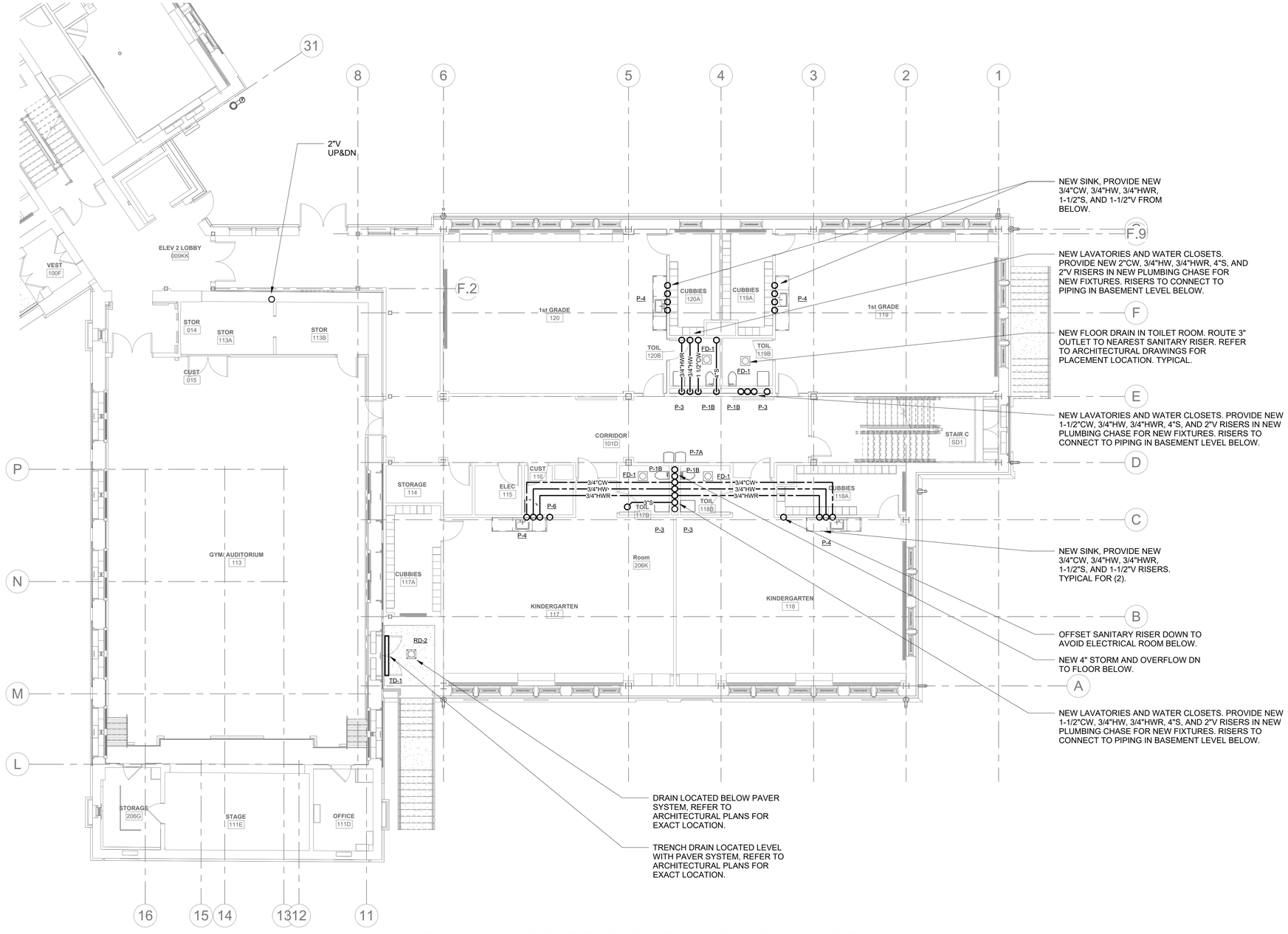
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SHEET TITLE

PLUMBING GROUND FLOOR NEW WORK PLAN (AREA C&D)

SHEET No.

P201



1 PLUMBING FIRST FLOOR NEW WORK PLAN (AREA C&D)

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

NORTH

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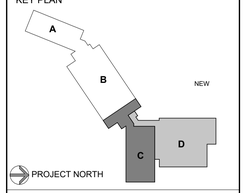
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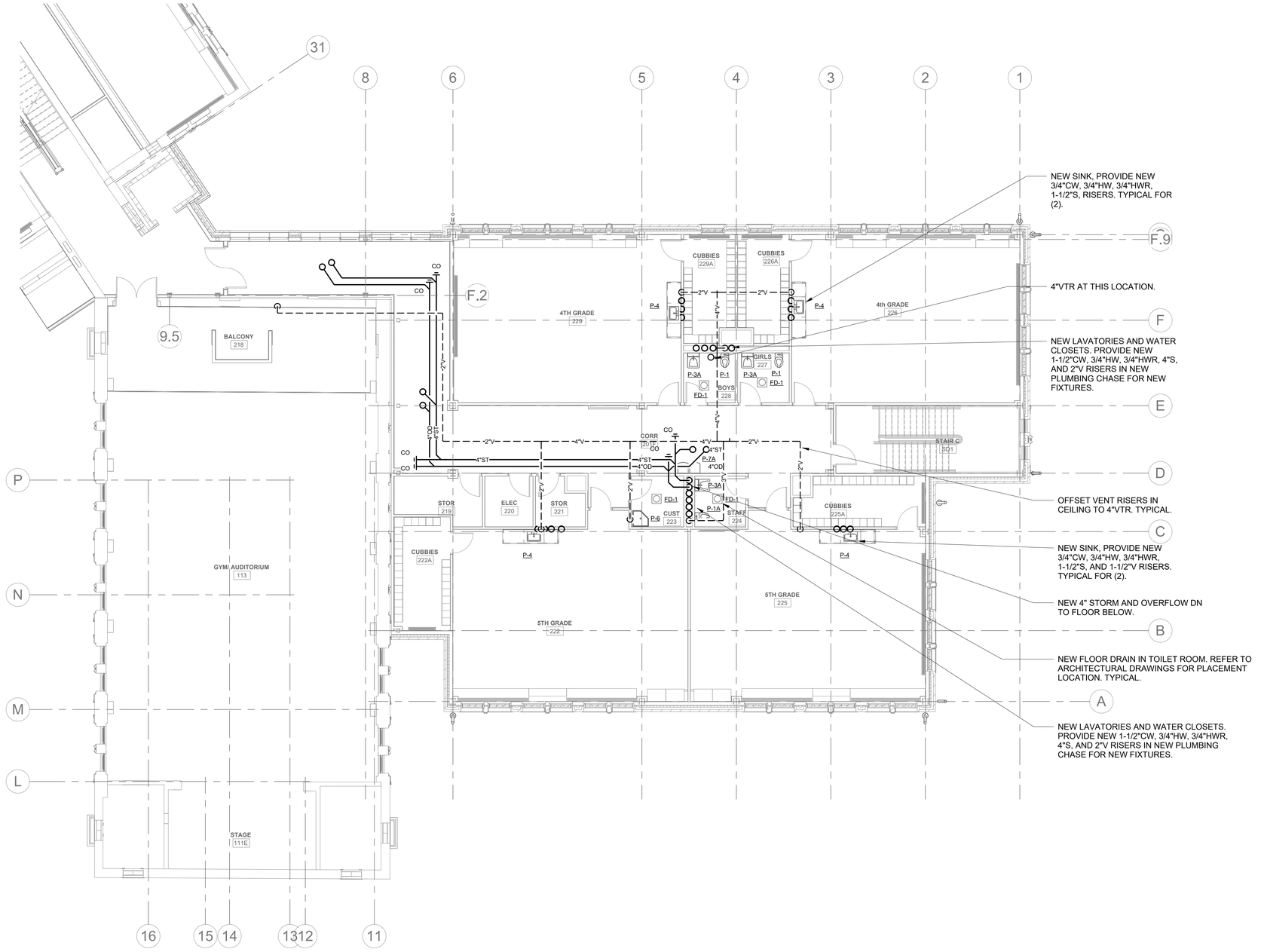
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SHEET TITLE

PLUMBING FIRST FLOOR NEW WORK PLAN (AREA C&D)

SHEET No.

P202



NORTH

1 PLUMBING SECOND FLOOR NEW WORK PLAN (AREA C&D)

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

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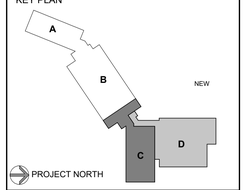
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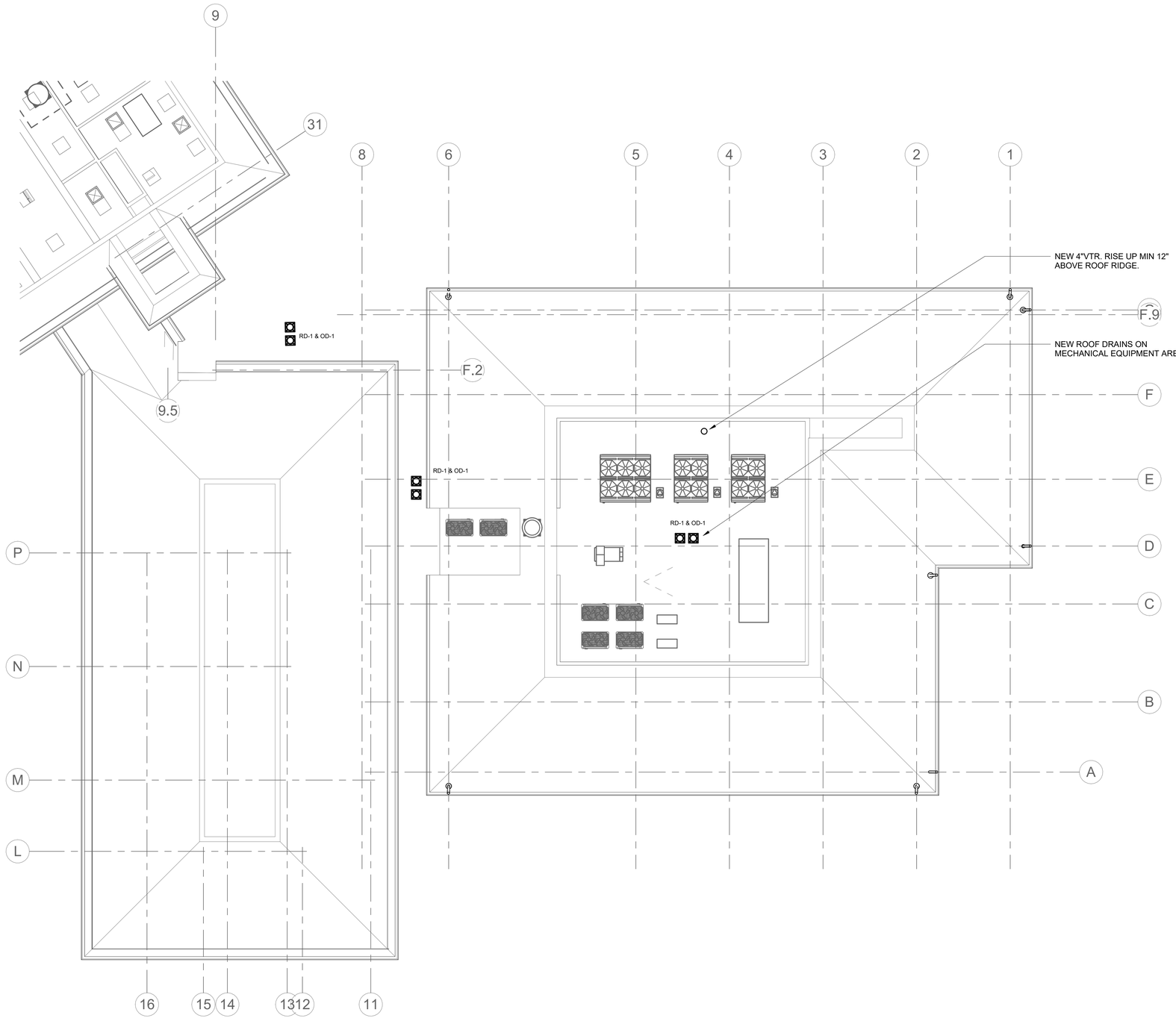
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SHEET TITLE

PLUMBING SECOND FLOOR NEW WORK PLAN (AREA C&D)

SHEET No.

P203



NORTH

1 PLUMBING ATTIC NEW WORK PLAN (AREA C&D)

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

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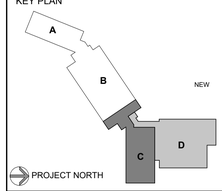
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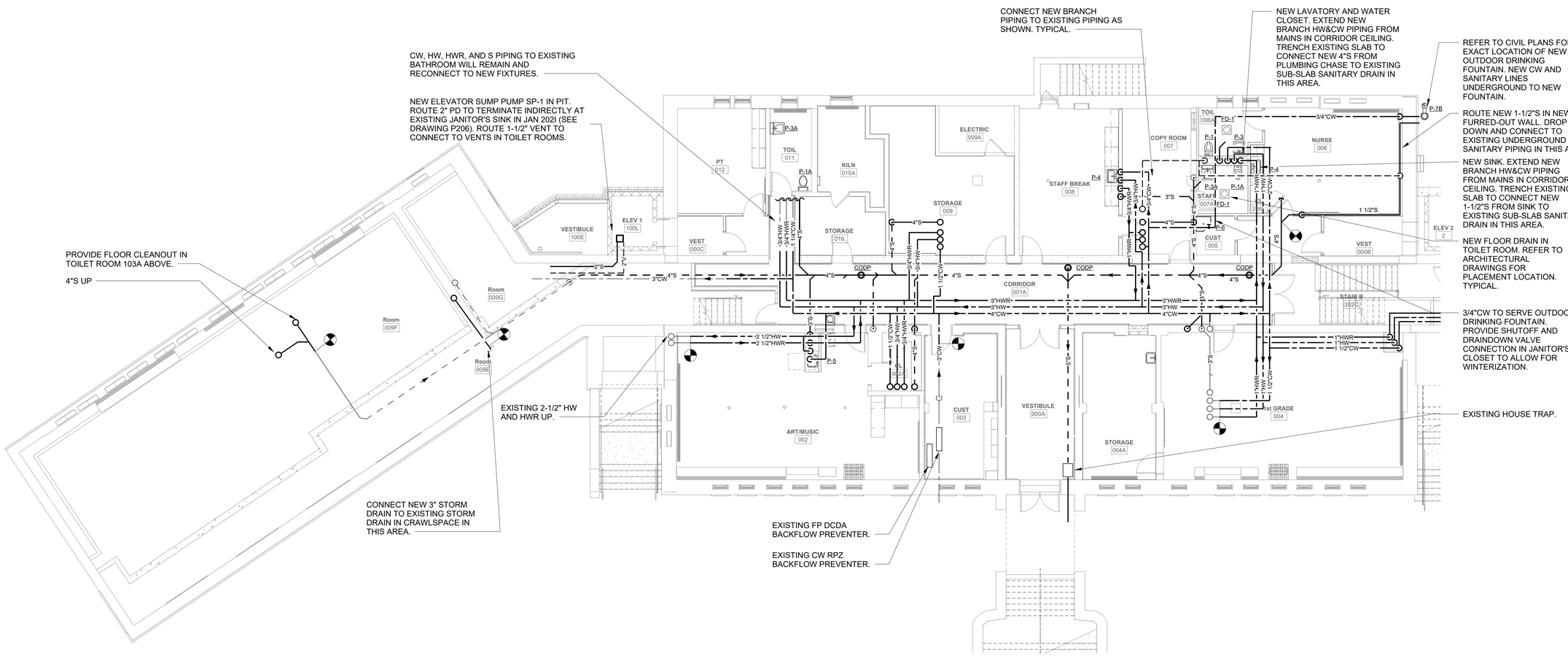
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SHEET TITLE

PLUMBING ATTIC NEW WORK PLAN (AREA C&D)

SHEET No.

P204



1 PLUMBING GROUND FLOOR NEW WORK PLAN (AREA A&B)

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

NORTH

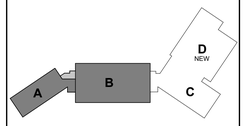
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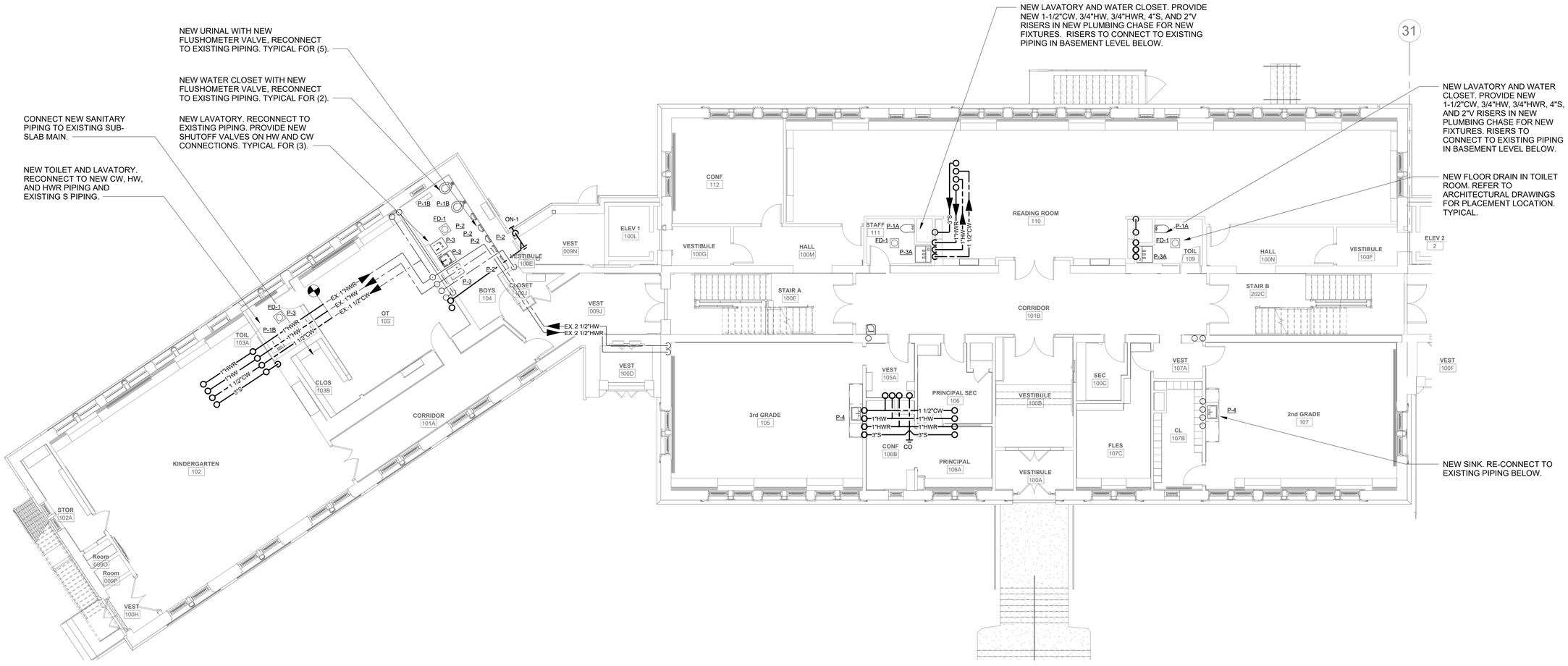
SHEET TITLE

PLUMBING GROUND FLOOR NEW WORK PLAN (AREA A&B)

SHEET No.

P205

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1 PLUMBING FIRST FLOOR NEW WORK PLAN (AREA A&B)

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

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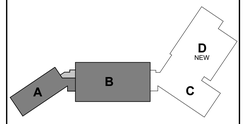
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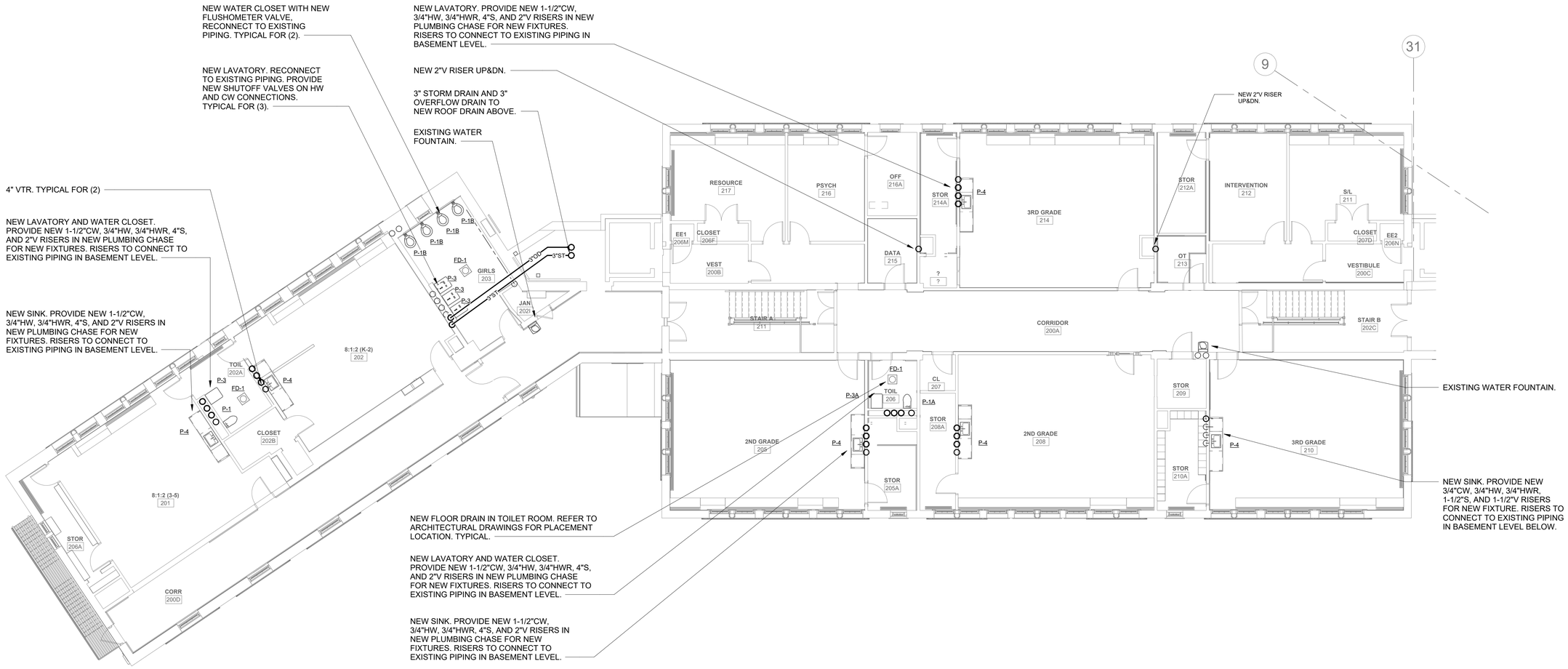
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SHEET TITLE

PLUMBING FIRST FLOOR NEW WORK PLAN (AREA A&B)

SHEET No.

P206



NORTH

1 PLUMBING SECOND FLOOR NEW WORK PLAN (AREA A&B)

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

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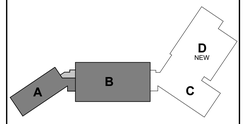
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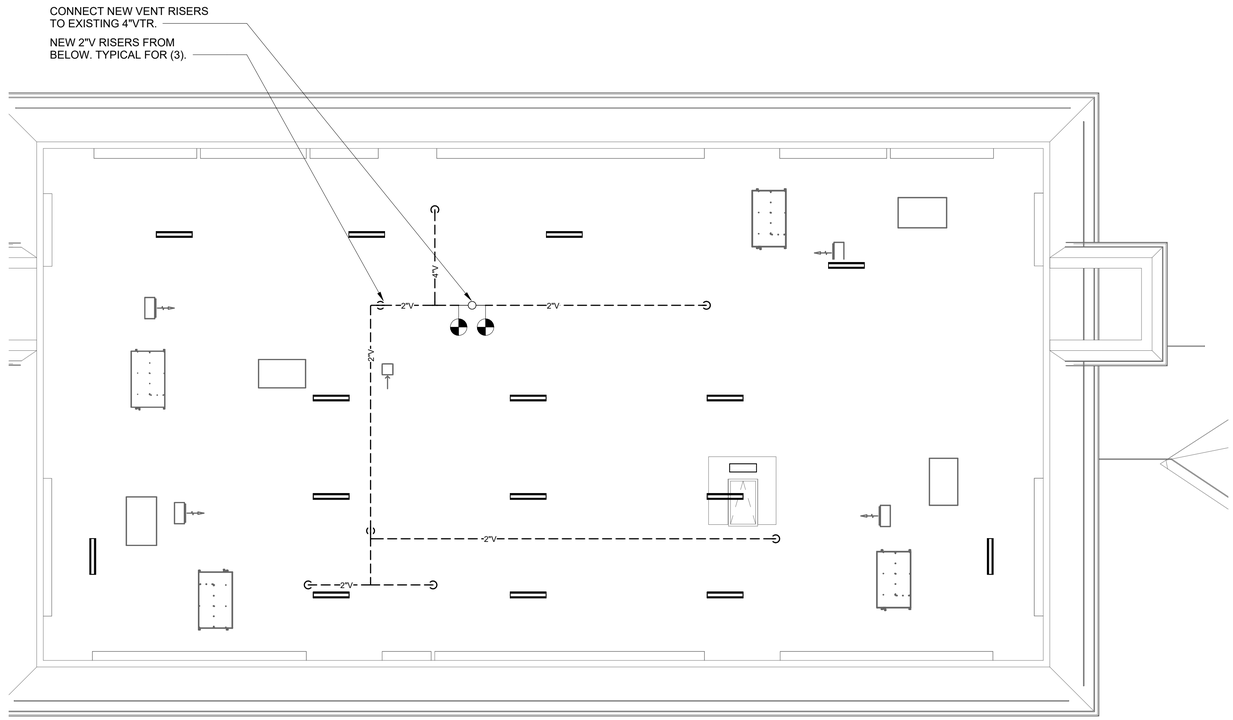
PROJECT No.
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SHEET TITLE

PLUMBING SECOND FLOOR NEW WORK PLAN (AREA A&B)

SHEET No.

P207



1 NORTH

PLUMBING ATTIC NEW WORK PLAN (AREA B)

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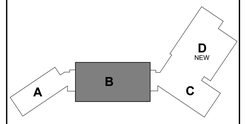
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KEY PLAN



PROJECT NORTH

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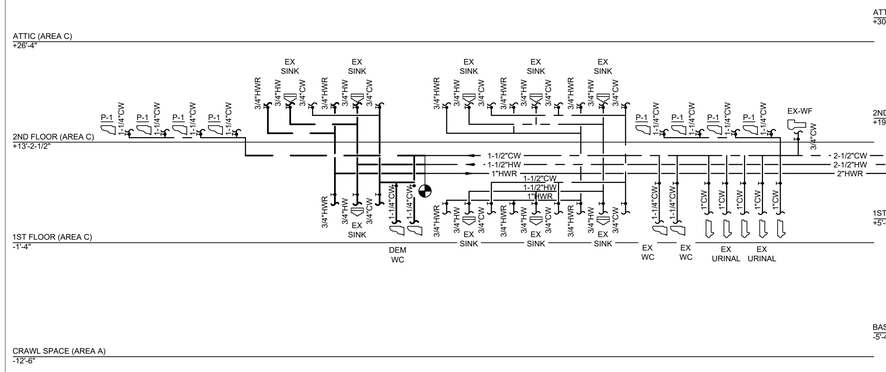
PROJECT No.
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SHEET TITLE

PLUMBING ATTIC NEW WORK PLAN

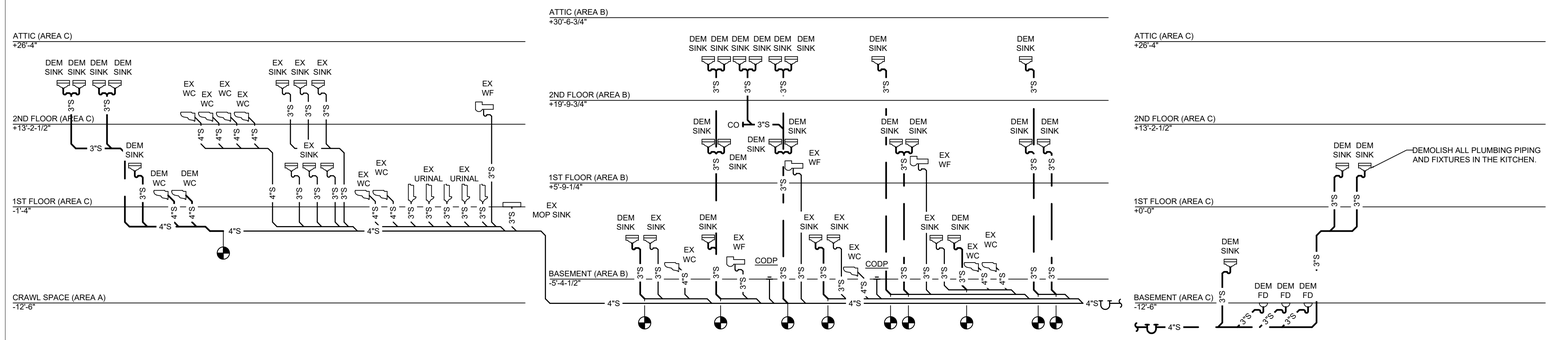
SHEET No.

P208



2 PLUMBING DEMOLITION WORK DOMESTIC RISER

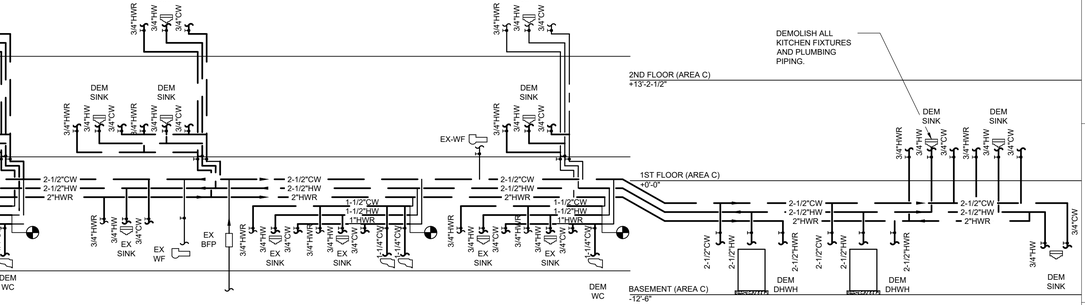
SCALE: NTS



1 PLUMBING DEMOLITION WORK SANITARY RISER

SCALE: NTS

DEMOLISH ALL KITCHEN FIXTURES AND PLUMBING PIPING.



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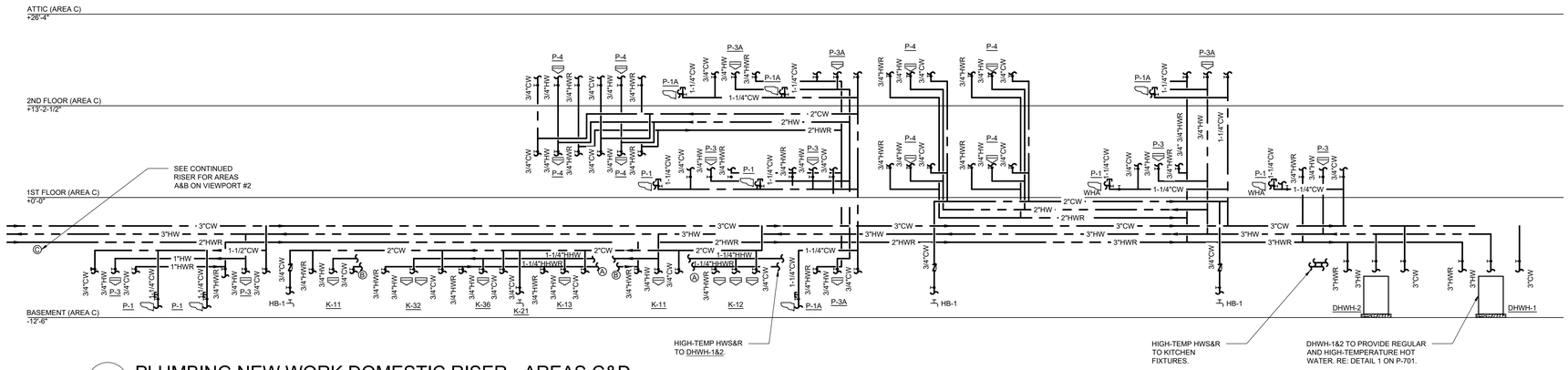
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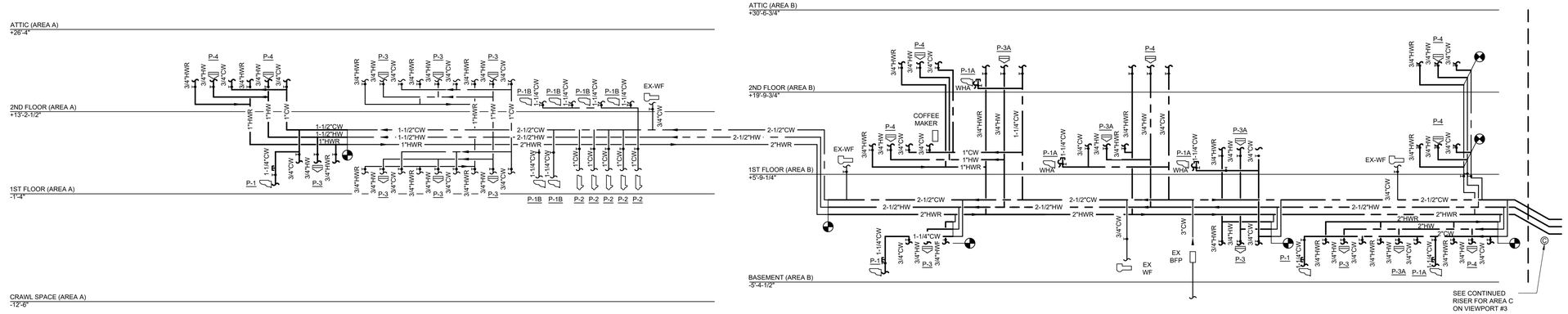
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SHEET TITLE
PLUMBING EXISTING AND DEMOLITION RISER DIAGRAMS

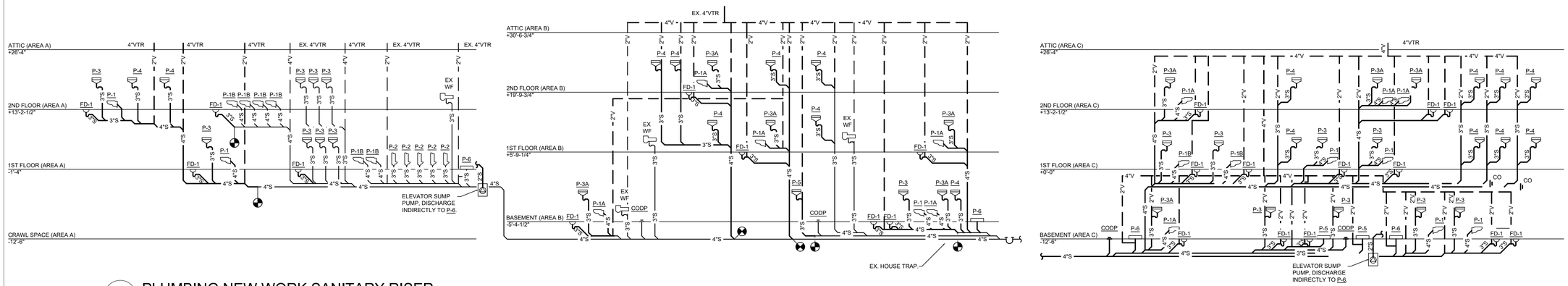
SHEET No.
P501



3 PLUMBING NEW WORK DOMESTIC RISER - AREAS C&D
SCALE: NTS



2 PLUMBING NEW WORK DOMESTIC RISER - AREAS A&B
SCALE: NTS



1 PLUMBING NEW WORK SANITARY RISER
SCALE: NTS

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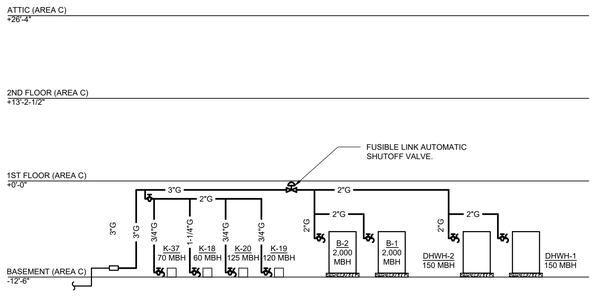
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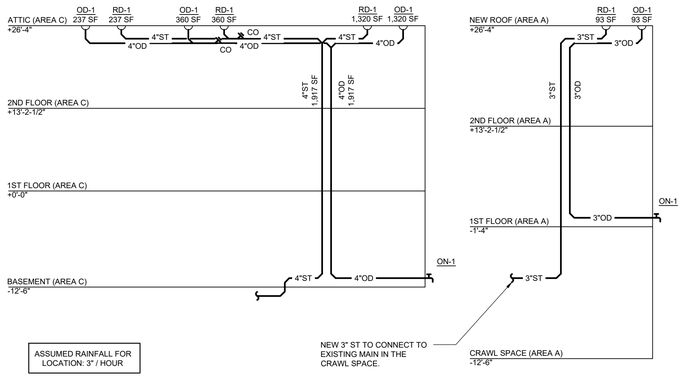
PLUMBING NEW RISER DIAGRAMS

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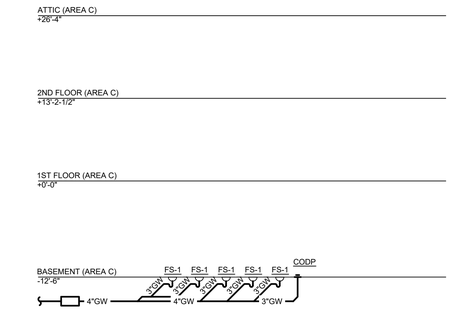
P502



3 PLUMBING NEW WORK GAS RISER
SCALE: NTS



2 PLUMBING NEW WORK STORM RISER
SCALE: NTS



1 PLUMBING NEW WORK GREASE TRAP RISER
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SHEET TITLE

PLUMBING NEW RISER DIAGRAMS

SHEET No.

P503

PLUMBING FIXTURE SCHEDULE

TAG	SYMBOLS PLAN	SYMBOLS ELEVATION	FIXTURES	PLUMBING CONNECTIONS WASTE	VENT	COLD WATER	HOT WATER	DESCRIPTION
P-1			WATER CLOSET WALL MOUNTED	4"	2"	¾"	-	MANUFACTURER: AMERICAN STANDARD MODEL: AFWALL MILLENNIUM FLOWISE SPUD BOWL WITH EVERCLEAN SELECTRONIC 1.28 GPF FLUSHVALVE, WALL MOUNT ELONGATED FLUSHOMETER VALVE TOILET, VITREOUS CHINA, HIGH EFFICIENCY, PERMANENT EVERCLEAR SURFACE, 1-1/2" INLET SPUD, SIPHON JET. FLUSH VALVE: AMERICAN STANDARD MODEL #6045013.002 MANUAL PISTON-TYPE FLUSH VALVE, 3/4" TOP SPUD, 1" ANGLE STOP AND VACUUM BREAKER. SEAT: AMERICAN STANDARD MODEL #5901.100 HEAVY DUTY OPEN FRONT LESS COVER
P-1A			WATER CLOSET WALL MOUNTED (ADA)	4"	2"	¾"	-	MANUFACTURER: AMERICAN STANDARD MODEL: AFWALL MILLENNIUM FLOWISE SPUD BOWL WITH EVERCLEAN SELECTRONIC 1.28 GPF FLUSHVALVE, WALL MOUNT ELONGATED FLUSHOMETER VALVE TOILET, VITREOUS CHINA, HIGH EFFICIENCY, PERMANENT EVERCLEAR SURFACE, 1-1/2" INLET SPUD, SIPHON JET. MOUNT AT ADA HEIGHT. FLUSH VALVE: AMERICAN STANDARD MODEL #6065121.002 EXPOSED SENSOR-OPERATED, 1-1/2" TOP SPUD, 1" ANGLE STOP AND VACUUM BREAKER, HARD WIRED. SEAT: AMERICAN STANDARD MODEL #5901.100 HEAVY DUTY OPEN FRONT LESS COVER
P-1B			WATER CLOSET FLOOR MOUNTED (MINI, MANUAL FLUSH)	4"	2"	¾"	-	MANUFACTURER: ZURN MODEL: Z5675-BWL HET CHILDREN'S FLOOR MOUNTED ECOVANTAGE FLUSH VALVE TOILET BOWL, VITREOUS CHINA, SIPHON JET, 10-1/2" HIGH ELONGATED FRONT RIM, 1-1/2" TOP SPUD, 1.28 GPF FLUSH VALVE, HIGH EFFICIENCY. FLUSH VALVE: AMERICAN STANDARD MODEL #6065121.002 EXPOSED SENSOR-OPERATED, 1-1/2" TOP SPUD, 1" ANGLE STOP AND VACUUM BREAKER, HARD WIRED. SEAT: ZURN MODEL Z5956SS-EL ELONGATED, EXTRA HEAVY DUTY, PREMIUM WHITE, OPEN FRONT LESS COVER.
P-2			URINAL	2"	2"	1"	-	MANUFACTURER: AMERICAN STANDARD MODEL: WASHBROOK FLOWISE ULTRA HIGH EFFICIENCY URINAL SYSTEM #6590.001EC, 0.125 GPF EXPOSED TOP SPUD URINAL AND SELECTRONIC URINAL FLUSH VALVE, VITREOUS CHINA, ¾" INLET SPUD, OUTLET CONNECTION 2" THREADED INSIDE, WASHOUT, EXTENDED SIDES FOR PRIVACY, PROVIDE CONCEALED WALL CARRIER AND SUPPORT, ADA COMPLIANT. FLUSH VALVE: AMERICAN STANDARD MODEL #6045013.002, 0.125 GPF EXPOSED SENSOR-OPERATED FOR 3/4" TOP SPUD URINALS. 4 YEARS BATTERY LIFE, 20 PSI (FLOWING), 80 PSI (STATIC) OPERATING PRESSURE. 10 GPM FLOW REQUIREMENT.
P-3			LAVATORY (PRIVATE RESTROOMS, MANUAL FAUCET)	2"	1½"	¾"	¾"	MANUFACTURER: AMERICAN STANDARD MODEL: WALL HUNG DECORUM 20"x18" #9024.001EC WHEELCHAIR USERS LAVATORY, WALL MOUNT SINK, ADA COMPLIANT, WHITE VITREOUS CHINA, CENTER HOLE ONLY, CONCEALED ARM CARRIER MOUNTED IN WALL, 1-1/4" CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG, CHROME PLATED BRASS SING ANGLE STOPS WITH LOOSE KEY OPERATOR, GRID DRAIN AND TAILPIECE, FLEXIBLE STAINLESS STEEL SUPPLY CONNECTIONS. FAUCET: DELTA BATHROOM FAUCET 35849LF MANUAL FAUCET, 3-HOLE SINK APPLICATION, 1.2 GPM @ 60 PSI
P-3A			LAVATORY (PRIVATE RESTROOMS, AUTOMATIC FAUCET)	2"	1½"	¾"	¾"	MANUFACTURER: AMERICAN STANDARD MODEL: WALL HUNG DECORUM 20"x18" #9024.001EC WHEELCHAIR USERS LAVATORY, WALL MOUNT SINK, ADA COMPLIANT, WHITE VITREOUS CHINA, CENTER HOLE ONLY, CONCEALED ARM CARRIER MOUNTED IN WALL, 1-1/4" CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT PLUG, CHROME PLATED BRASS SING ANGLE STOPS WITH LOOSE KEY OPERATOR, GRID DRAIN AND TAILPIECE, FLEXIBLE STAINLESS STEEL SUPPLY CONNECTIONS. FAUCET: AMERICAN STANDARD #706B.103 AUTOMATIC FAUCET WITH PK01.HAC HARD-WIRED AC POWER SUPPLY AND 10' EXTENSION CABLE, 0.5 GPM.
P-4			CLASSROOM SINK (CLASSROOMS)	2"	1½"	¾"	¾"	MANUFACTURER: ELKAY MODEL: ELUHAD211545PD SINGLE BOWL UNDERMOUNT ADA SINK WITH PERFECT DRAIN, STAINLESS STEEL, REAR CENTER, STAINLESS STEEL BODY AND STRAINER FAUCET: ELKAY MODEL LKD2439C 8" CENTERSET CONCEALED DECK MOUNT FAUCET WITH ARC SPROUT AND 2-5/8" CHROME LEVER HANDLES, 1.5 GPM.
P-5			UTILITY SINK - ART & MAINTENANCE	2"	1½"	¾"	¾"	MANUFACTURER: SANI-LAV MODEL: 5021-0.5 LOW-FLOW 0.5 GPM HANDS FREE FLOOR MOUNT STAINLESS STEEL SINK
P-6			UTILITY SINK - JANITOR'S CLOSET	2"	1½"	¾"	¾"	MANUFACTURER: PROFLO MODEL: PFMB2424, 3" OUTLET, CORNER MODEL, 3" STAINLESS STEEL DRAIN. PROVIDE SUITABLE REINFORCEMENT FOR ALL WALL SUPPORTS. PROVIDE ALL FITTINGS REQUIRED. FAUCET: AMERICAN STANDARD 8344.212, EXPOSED YOKE WALL-MOUNT UTILITY FAUCET, ADA COMPLIANT, TOP BRACE 6" CAST BRASS SPOUT WITH VACUUM BREAKER, CERAMIC DISC VALVES, INTEGRAL SUPPLY STOPS, VANDAL RESISTANT METAL LEVER HANDLES, BUCKET HOOK, ADJUSTABLE CENTERS-TO-CENTERS 6"-10". FINISH TO BE COORDINATED WITH ARCHITECT.
P-7			DRINKING FOUNTAIN	1¼"	1¼"	½"	-	MANUFACTURER: ELKAY MODEL: LZSG8WSSK, ezH2O BOTTLE FILLING STATION & SINGLE ADA COOLER HIGH EFFICIENCY FILTERED REFRIGERATION STAINLESS STEEL, ANTIMICROBIAL, FILTERED, GREEN TICKER, HANDS FREE, HIGH EFFICIENCY, LAMINAR FLOW, REAL DRAIN, CANE DETECTION APRON, VISUAL FILTER MONITOR, 8.0 GPH CHILLING CAPACITY, 115V/60Hz, 6 FULLY LOADED AMPS, 360 RATED WATTS BASED ON 80 DEG F INLET WATER & 90 DEG F AMBIENT AIR TEMP FOR 50 DEG F CHILLED DRINKING WATER, ADA COMPLIANT
P-7A			DRINKING FOUNTAIN	1¼"	1¼"	½"	-	MANUFACTURER: ELKAY MODEL: LZSTLG8WSSK, ezH2O BOTTLE FILLING STATION & SINGLE ADA COOLER HIGH EFFICIENCY FILTERED REFRIGERATION STAINLESS STEEL, ANTIMICROBIAL, FILTERED, GREEN TICKER, HANDS FREE, HIGH EFFICIENCY, LAMINAR FLOW, REAL DRAIN, CANE DETECTION APRON, VISUAL FILTER MONITOR, 8.0 GPH CHILLING CAPACITY, 115V/60Hz, 6 FULLY LOADED AMPS, 360 RATED WATTS BASED ON 80 DEG F INLET WATER & 90 DEG F AMBIENT AIR TEMP FOR 50 DEG F CHILLED DRINKING WATER, ADA COMPLIANT
P-7B			OUTDOOR DRINKING FOUNTAIN	1½"	1¼"	½"	-	MANUFACTURER: ELKAY MODEL: LK4420FRK OUTDOOR BI-LEVEL PEDESTAL FOUNTAIN NON-FILTERED NON-REFRIGERATED FREEZE RESISTANT. COLOR/FINISH BY ARCHITECT.
P-8			UTILITY SINK - KITCHEN & BOILER ROOM	2"	1½"	¾"	¾"	MANUFACTURER: PROFLO MODEL: MODEL PFMB3624S, 36"x24" MOP SERVICE BASIN WITH STAINLESS STEEL DRAIN, COMPOSITE MATERIAL, WITH 2" STRAINER AND GASKET, 36" STAINLESS STEEL WALL GUARD, SERVICE HOSE & BRACKET. PROVIDE ALL FITTINGS REQUIRED. FAUCET: AMERICAN STANDARD 8344.212, EXPOSED YOKE WALL-MOUNT UTILITY FAUCET, ADA COMPLIANT, TOP BRACE 6" CAST BRASS SPOUT WITH VACUUM BREAKER, CERAMIC DISC VALVES, INTEGRAL SUPPLY STOPS, VANDAL RESISTANT METAL LEVER HANDLES, BUCKET HOOK, ADJUSTABLE CENTERS-TO-CENTERS 6"-10". FINISH TO BE COORDINATED WITH ARCHITECT.

NOTES:
1.) REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE SPECIFICATIONS, QUANTITY, LOCATIONS, & MOUNTING HEIGHTS.

PLUMBING SPECIALTIES SCHEDULE

TAG	SYMBOLS PLAN	SYMBOLS ELEVATION	FIXTURES	DESCRIPTION
WCO			WALL CLEANOUT	WALL CLEANOUT WITH CLEANOUT TEE AND CHROME PLATED BRONZE SQUARE ACCESS COVER AND FRAME. WADE #W-8480 OR APPROVED EQUAL
CODP			CLEANOUT DECKPLATE	ZURN ZN-1440-NH-VP LEVEL TROL ADJUSTABLE LEVELING FLOOR CLEANOUT, DURA COATED CAST IRON BODY, WATER TIGHT ABS TAPERED THREAD PLUG, ROUND SCORIATED SECURED LIGHT-DUTY POLISHED NICKEL BRONZE TOP, VANDAL PROOF SCREWS.
FD-1			GENERAL FLOOR DRAIN	ZURN ZN-415B-OF-P-VP-Y BODY ASSEMBLY WITH POLISHED NICKEL BRONZE OVAL STRAINER ZN329-7 VANDAL PROOF SECURED TOP, SEDIMENT BUCKET. TRAP SHALL BE PVC. PROVIDE PROSET TRAP GUARD, ELASTOMERIC PVC MATERIAL INSERT, OPEN ON TOP WITH CURL CLOSURE ON BOTTOM, SIZE TO MATCH DRAIN PIPE. PROVIDE AT ALL FLOOR DRAINS OR APPROVED EQUAL.
RD-1 & OD-1			ROOF / OVERFLOW DRAIN	ZURN Z164 12" DIAMETER COMBINATION ROOF DRAIN AND OVERFLOW DRAIN WITH LOW SILHOUETTE DOMES AND DOUBLE TOP-SET DECK PLATE. DURA-COATED CAST IRON BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARDS, DOUBLE TOP-SET DECK PLATE, LOW SILHOUETTE CAST IRON DOMES.
RD-2			ROOF DRAIN	JAY R SMITH MODEL 1015Y GENERAL PURPOSE ROOF DRAIN, POLYETHYLENE DOME, DUCO CAST IRON BODY WITH EXTENSION, WITH COMBINED FLASHING CLAMP, GRAVEL STOP & POLYETHYLENE DOME, 3" NO HUB OUTLET.
TD-1			TRENCH DRAIN	JAY R SMITH MODEL 9930 ENVIRO-FLO II DRAIN SYSTEM, WITH SSPA1G LIGHT DUTY PERFORATED STAINLESS STEEL GRATE, 4" VERTICAL NO-HUB OUTLET, 1/4" SLOPE. COORDINATE REQUIRED SLOPE SECTIONS AND OUTLET WITH FIELD REQUIREMENTS.
ON-1			OVERFLOW NOZZLE	JAY R. SMITH MODEL 1770-BS. CAST BRONZE WITH WALL FLANGE AND BIRD SCREEN. COORDINATE THREADED OR NO HUB CONNECTION IN FIELD.
WHA		-	WATER HAMMER ARRESTOR	TYPE SA: WADE "SHOCKSTOP" BELLOWS TYPE, WITH ALL STAINLESS STEEL CONSTRUCTION, CHARGED WITH NITROGEN. PROVIDE ON ALL CW LINES TO WASHING MACHINES, SHOWERS AND ALL HORIZONTAL BRANCH LINES. RE: RISER.
HB-1			HOSE BIB	IN FINISHED AREAS, WASHDOWN FAUCET SHALL BE POLISHED CHROME-PLATED WALL FAUCET WITH WALL FLANGE, $\frac{1}{2}$" INLET, $\frac{3}{4}$" HOSE THREAD OUTLET AND REMOVABLE LOOSE KEY T-HANGDLE: CHICAGO #293-6 WITH #E27 VACUUM BREAKER OR ACCEPTABLE EQUIVALENT.

NOTES:
1.) REFER TO ARCHITECTURAL DRAWINGS FOR FIXTURE QUANTITY, LOCATIONS, & MOUNTING HEIGHTS.

EQUIPMENT NOTES:

1) GAS-FIRED DOMESTIC HOT WATER HEATERS (DHWH-1&2): SHALL BE AO SMITH GAS-FIRED HOT WATER HEATER MODEL BTH-150(A), 150 MBH CAPACITY WITH 98% THERMAL EFFICIENCY, RATED AT 178 GPH @ 100°F RISE. HEATERS SHALL HAVE 100 GALLON CAPACITIES EACH. 120V/1PH/60Hz SINGLE POINT ELECTRICAL CONNECTION. ASME CONSTRUCTION.

2) EXPANSION TANK: SHALL BE AMTROL MODEL ST-20VC-DD, 8.6 GALLON WITH MAX ACCEPTANCE FACTOR OF 0.37, A WEIGHT OF 36 LBS., TANK DIAMETER OF 12 INCHES, AND A HEIGHT OF 22 INCHES.

3) RECIRCULATION PUMP: SHALL BE TACO COMFORT SOLUTIONS PUMP MODEL 1911ECM HIGH EFFICIENCY PUMP WITH 60.0 GPM AT 12 FT. OF HEAD. PUMP SHALL BE 0.6 HP AND 120V/1PH/60Hz.

4) HIGH TEMPERATURE HOT WATER RECIRCULATION PUMP: SHALL BE TACO COMFORT SOLUTIONS PUMP MODEL 0034E ECM HIGH EFFICIENCY PUMP WITH 5 GPM AT 9 FT. OF HEAD. PUMP SHALL BE 0.25 HP AND 120V/1PH/60Hz.

5) ELEVATOR SUMP PUMPS: SHALL BE BASED ON STANCOR MODEL SE50 PUMP, 0.5 HP, 115V-1 PHASE-60 HERTZ, 5 FLA, 74 GPM @ 37 FEET HEAD AND 3600 RPM. PROVIDE STANCOR CHECK VALVE WITH EACH PUMP. PROVIDE OIL MINDER CONTROL SYSTEM FOR EACH PUMP WITH BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. PROVIDE JUNCTION BOX WITH MULTI PIN CONNECTOR AND CORD LENGTHS AS REQUIRED. PANEL TO HAVE INDICATOR LIGHTS FOR OIL SPILL, HIGH LIQUID LEVEL, OVERLOAD AND PUMP RUN. CONTROL PANEL ENCLOSURE TO BE NEMA4X WATERTIGHT CORROSION RESISTANT FIBERGLASS.

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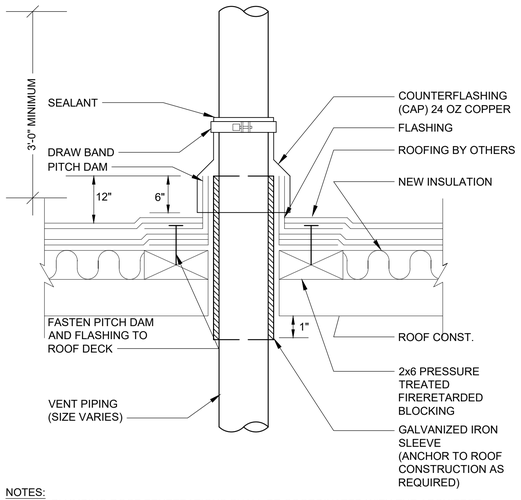
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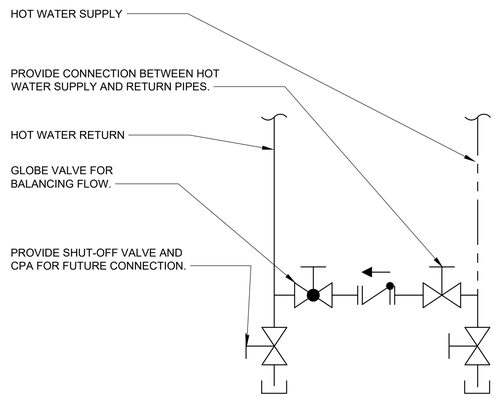
SHEET TITLE
PLUMBING SCHEDULES

SHEET No.
P601

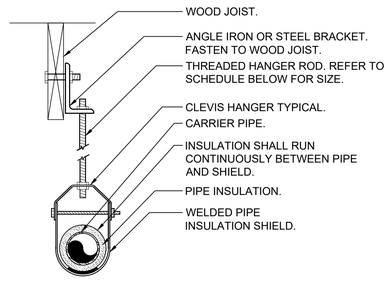


NOTES:
1. ALL PLUMBING ROOF PENETRATIONS SHALL BE COORDINATED WITH THE ARCHITECT.

7 VENT THROUGH ROOF DETAIL
SCALE: NONE



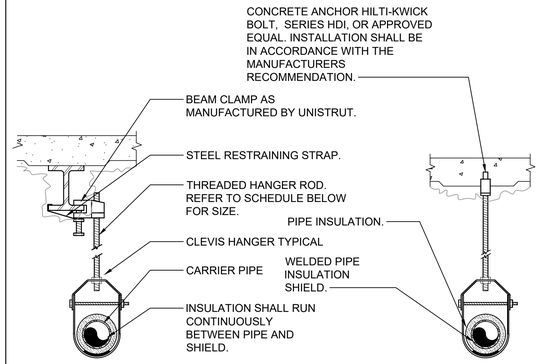
5 HOT WATER RECIRC CONNECTION DETAIL
SCALE: NONE



PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"

NOTES:
1. CLEVIS HANGERS WITH WELDED INSULATION SHIELDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
2. FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHIELD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
3. FOR NON-INSULATED PIPE, INSULATION SHIELDS MAY BE OMITTED.
4. ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.

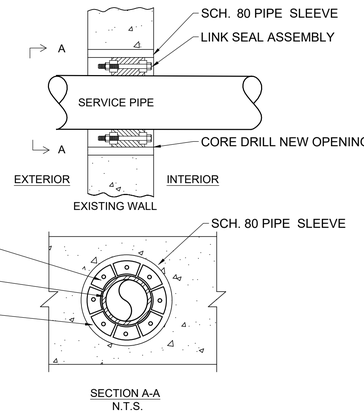
3 PIPE HANGER DETAIL
SCALE: NONE



PIPE HANGER SCHEDULE					
PIPE DIA.	3/4"-2"	2 1/2"-3"	4"-5"	6"	8"-12"
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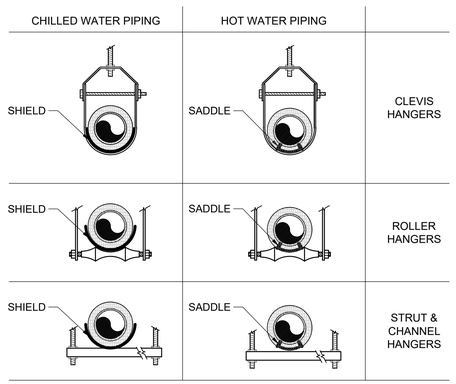
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5. FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.
6. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

2 PIPE HANGER DETAIL
SCALE: NONE



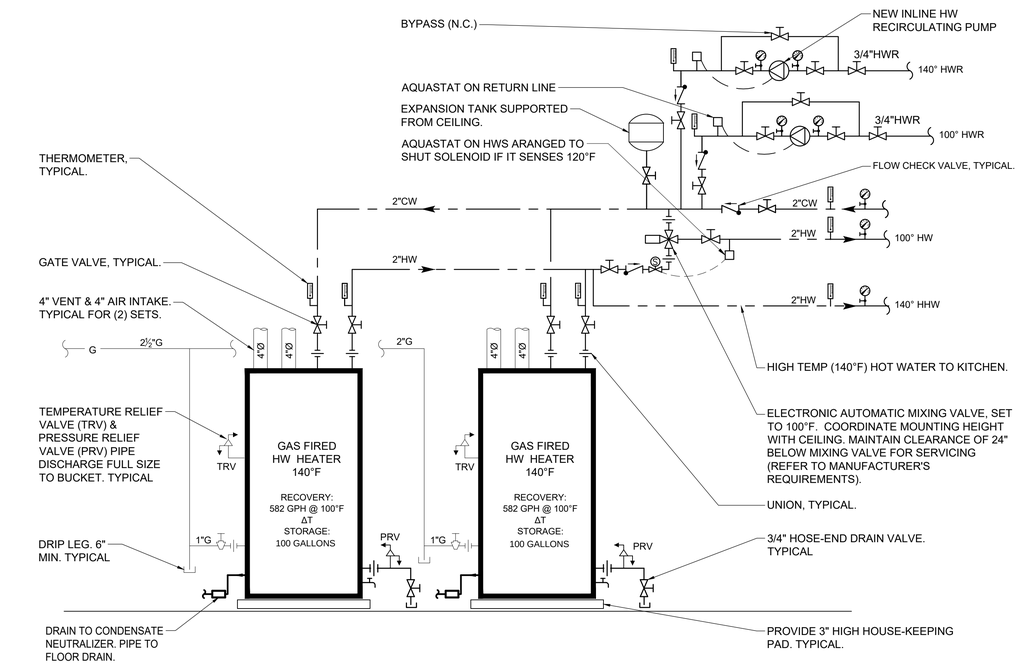
NOTES:
1. SEAL ASSEMBLY BASED ON THUNDERLINE MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, COMPOSITE PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & ORGANIC COATED NUTS AND BOLTS RATED FOR AN OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
2. USE LINK SEAL AT ALL LOCATIONS WHERE PIPES PENETRATE EXTERIOR WALLS, ABOVE GRADE OR BELOW GRADE.

6 PIPE LINK SEAL DETAIL FOR EXTERIOR WALLS
SCALE: NONE



NOTES:
1. INSULATION ON ALL COLD SURFACES SHALL BE APPLIED WITH A CONTINUOUS, UNBROKEN VAPOR SEAL. HANGERS, SUPPORTS, ANCHORS, ETC., THAT ARE SECURED DIRECTLY TO COLD SURFACES SHALL BE ADEQUATELY INSULATED AND VAPOR SEALED TO PREVENT CONDENSATION.
2. GALVANIZED METAL SHIELDS SHALL BE APPLIED BETWEEN HANGERS OR SUPPORTS AND THE PIPE INSULATION AS SHOWN ABOVE. SHIELDS SHALL BE FORMED TO FIT THE INSULATION AND SHALL EXTEND UP TO THE CENTERLINE OF THE PIPE.
3. RIGID INSULATION INSERTS SHALL BE INSTALLED ON PIPE SIZES 1½" (38 MM) OR LARGER AS SHOWN ABOVE. INSERTS SHALL BE OF EQUAL THICKNESS TO THE ADJOINING INSULATION AND SHALL BE PROVIDED WITH VAPOR RETARDER SEALS.

4 PIPE INSULATION SADDLE/SHIELD SCHEDULE
SCALE: NONE



DOMESTIC HOT WATER HEATER PIPING DIAGRAM
SCALE: NONE

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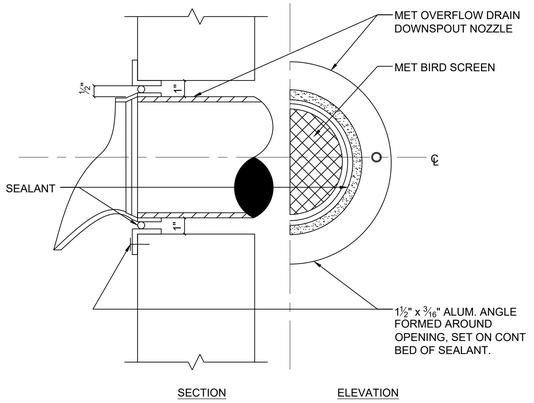
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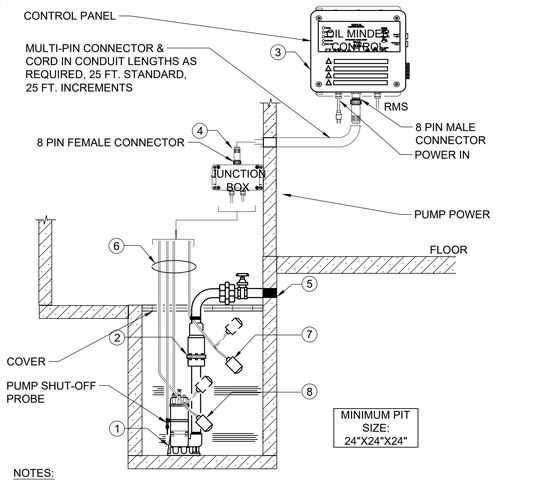
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SHEET TITLE
PLUMBING DETAILS

SHEET No.
P701

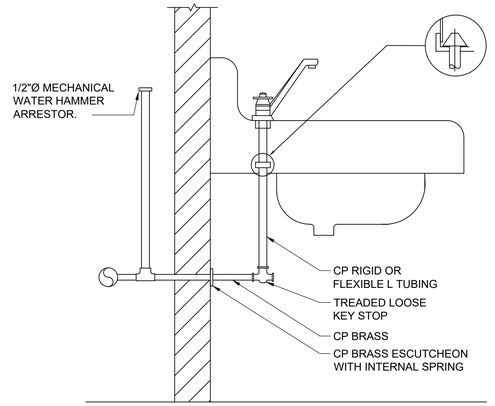


6 DRAIN DOWNSPOUT NOZZLE DETAIL
SCALE: NONE



NOTES:
1. STANCOR SUBMERSIBLE EFFLUENT PUMP, 2" DISCHARGE CONNECTION.
2. STANCOR CHECK VALVE.
3. STANCOR OIL MINDER 115V, 1Ø CONTROL SYSTEM WITH OPTIONAL BUILT IN AUDIBLE AND VISUAL ALARM WHEN PUMP DOES NOT RUN DUE TO OIL IN PIT OR HIGH LIQUID ALARM. PROVIDE SILENCING BUTTON FOR AUDIBLE ALARM BUILT INTO PANEL. PANEL SHALL HAVE ADDITIONAL CONTACT FOR A REMOTE ALARM LOCATION. A JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR & CORD IN LENGTHS AS REQUIRED, 25 FT. IS STANDARD, OPTIONAL 25 FT. INCREMENTS. LIGHTS FOR OIL SPILL, POWER,HIGH LIQUID LEVEL, OVERLOAD & PUMP RUN.
4. JUNCTION BOX WILL BE PROVIDED WITH MULTI-PIN CONNECTOR AND CORD IN LENGTHS AS REQUIRED; 25 FT. IS STANDARD, OPTIONAL 25 FT. INCREMENTS AVAILABLE.
5. ALL BURIED PUMP PRESSURE DISCHARGE PIPING SHALL BE PROTECTED WITH TAPECOAT CT CORROSION PROTECTION TAPE.
6. OIL MINDER CABLE, POWER CABLE, PROBE CABLE, HIGH LIQUID ALARM CABLE & PUMP ON FLOAT CABLE.
7. HIGH LIQUID ALARM FLOAT WITH CLAMP DEVICE TO MOUNT TO PUMP DISCHARGE PIPING.
8. PUMP ON FLOAT.
9. PROVIDE (2) 25 FT LENGTH MULTI-PIN CONNECTOR AND CORD FOR CONNECTION BETWEEN PUMP AND CONTROL PANEL.

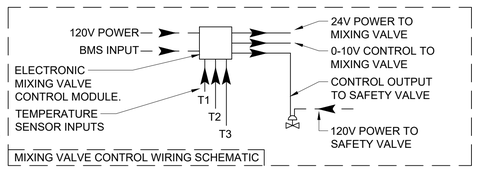
4 ELEVATOR SUMP PUMP DETAIL
SCALE: NONE



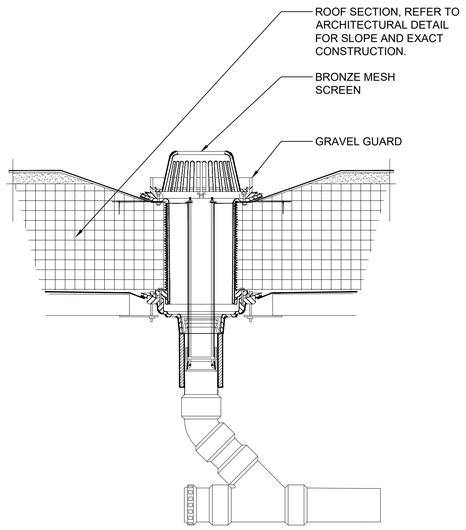
NOTE:
SIMILAR SUPPLY ARRANGEMENT TO OTHER FIXTURES

2 TYPICAL LAVATORY SUPPLY CONNECTION
SCALE: NONE

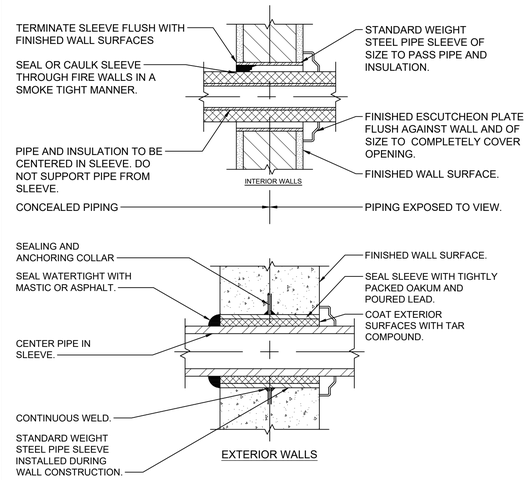
HOT WATER MIXING VALVE: PROVIDE HEAT-TIMER 3-WAY VALVE AND ETV PLATINUM PLUS CONTROL PANEL WITH BACNET. PROVIDE 120V, 20A, 1-POLE CIRCUIT. PROVIDE 24VAC POWER FROM THE CONTROL PANEL TO THE 3-WAY VALVE. PROVIDE OPTIONAL SAFETY VALVE AND BACNET OUTPUT. VALVE AND CONTROLS SHALL BE ASSE LISTED TO BE COMPLIANT WITH BUILDING WIDE TEMPERING DEVICES FOR DOMESTIC SYSTEMS.



5 MIXING VALVE
SCALE: NONE



3 ROOF DRAIN DETAIL
SCALE: NONE



NOTES:
1. PIPE SLEEVE FOR EXTERIOR WALL ABOVE OR BELOW GRADE.
2. FOR GAS SERVICE EXTEND SLEEVE 1" PAST INSIDE FACE OF WALL & 4" PAST OUTSIDE FACE OF WALL.

1 PIPE WALL SLEEVE DETAIL
SCALE: NONE

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SHEET TITLE

PLUMBING DETAILS

SHEET No.

P702

SYMBOL & ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
-	AC-	AIR CONDITIONING UNIT
-	ACC-	AIR COOLED CONDENSING UNIT
-	AD	ACCESS DOOR
-	AFF	ABOVE FINISHED FLOOR
-	AHC	ABOVE HUNG CEILING
-	AHU-	AIR HANDLING UNIT
-	AP	ACCESS PANEL
-	BDD	BACKDRAFT DAMPER
-	BHP	BRAKE HORSEPOWER
-	BTU	BRITISH THERMAL UNIT
-	CFM	CUBIC FEET PER MINUTE
-	CH-	CABINET HEATER
-	℄	CENTERLINE
-	CP-	CONDENSATE PUMP
-	DB	DRY BULB TEMPERATURE
-	DIA. OR Ø	DIAMETER
-	DX	DIRECT EXPANSION
-	EA	EXHAUST AIR
-	EAT	ENTERING AIR TEMPERATURE
-	EF-	EXHAUST FAN
-	EL	ELEVATION
-	ER	EXHAUST REGISTER
-	ESP	EXTERNAL STATIC PRESSURE
-	EWT	ENTERING WATER TEMPERATURE
-	FCU-	FAN COIL UNIT
-	FPM	FEET PER MINUTE
-	FPS	FEET PER SECOND
-	FTR	FINNED TUBE RADIATION
-	GPM	GALLONS PER MINUTE
-	HP	HORSE POWER
-	KX-	KITCHEN EXHAUST
-	LAT	LEAVING AIR TEMPERATURE
-	LF	LINEAR FEET
-	LWT	LEAVING WATER TEMPERATURE
-	MBH	1000 BRITISH THERMAL UNITS PER HOUR
-	MER	MECHANICAL EQUIPMENT ROOM
-	NC	NORMALLY CLOSED
-	NIC	NOT IN CONTRACT
-	NO	NORMALLY OPEN
-	OAI	OUTSIDE AIR INTAKE
-	PSI	POUNDS PER SQUARE INCH
-	RA	RETURN AIR
-	RF-	RETURN FAN
-	RPM	REVOLUTIONS PER MINUTE
-	RTU-	ROOFTOP UNIT
-	SA	SUPPLY AIR
-	SP	STATIC PRESSURE
-	TD	TRANSFER DUCT
-	TDH	TOTAL DYNAMIC HEAD
-	TF-	TRANSFER FAN
-	TSP	TOTAL STATIC PRESSURE
-	TYP.	TYPICAL
-	U.O.N.	UNLESS OTHERWISE NOTED
-	UV-	UNIT VENTILATOR
-	WB	WET BULB TEMPERATURE
-	WG	INCHES OF WATER GAUGE
-	WMS	WIRE MESH SCREEN
-	WB	WET BULB TEMPERATURE
-	WG	INCHES OF WATER GAUGE

SYMBOL	ABBREVIATION	DESCRIPTION
	-	3-WAY VALVE
	-	FLEXIBLE CONNECTION
	-	2-WAY VALVE
	-	PLUG VALVE
	-	LOCK SHIELD VALVE
	-	GATE VALVE
	-	GLOBE VALVE
	-	TEE DOWN
	-	ELBOW DOWN
	-	TEE UP
	-	ELBOW UP
	-	CONCENTRIC REDUCER
	-	ECCENTRIC REDUCER
	-	OS&Y GATE VALVE
	-	PIPE GUIDE
	-	PIPE ANCHOR
	-	STRAINER
	-	BASKET STRAINER
	-	PRESSURE REDUCING VALVE
	-	FLOW ARROW
	-	BUTTERFLY VALVE
	-	BALANCING VALVE
	-	MANUAL AIR VENT
S	-	SOLENOID VALVE
M	-	MOTORIZED VALVE
	-	ANGLE GLOBE VALVE
	-	ANGLE GATE VALVE
	-	T&P RELIEF VALVE
	-	FILTER DRYER
	-	FILTER
	-	FLOAT AND THERMOSTATIC TRAP
	-	FLOAT TRAP
	-	BALL VALVE
	-	PRESSURE GAGE
	-	TERMOMETER
	-	CHECK VALVE
	-	UNION
	EX.	EXISTING TO REMAIN
	REL.	REMOVE AND RELOCATE
	NEW	NEW WORK
	DEM.	EXISTING TO BE REMOVED
CHWS	-	CHILLED WATER SUPPLY
CHWR	-	CHILLED WATER RETURN
D	-	DRAIN
DTS	-	DUAL TEMPERATURE SUPPLY
DTR	-	DUAL TEMPERATURE RETURN
LPS	-	LOW PRESSURE STEAM SUPPLY
LPR	-	LOW PRESSURE STEAM RETURN
HWS	-	HOT WATER SUPPLY
HWR	-	HOT WATER RETURN
PD	-	PUMP DISCHARGE, CONDENSATE
RL	-	REFRIGERANT LIQUID
RS	-	REFRIGERANT SUCTION
HG	-	REFRIGERANT HOT GAS
T	-	THERMOSTAT
M	-	MOTORIZED DAMPER
S	-	SMOKE DETECTOR
	-	DOOR UNDER CUT
	-	DOOR LOUVER

SYMBOL	ABBREVIATION	DESCRIPTION
	-	AIR INTO REGISTER
	-	POINT OF CONNECTION DISCONNECTION
	UH	UNIT HEATER
	CUH	CABINET UNIT HEATER
	P-1	PUMP
	SR	SUPPLY REGISTER
	CD	1-WAY
	CD	2-WAY
	CD	2-WAY
	CD	3-WAY
	CD	4-WAY
	LD	LINEAR DIFFUSER
	RR/RG	RETURN REGISTER/GRILLE
	-	SUPPLY DUCT UP
	-	SUPPLY DUCT DOWN
	-	RETURN DUCT UP
	-	RETURN DUCT DOWN
	-	TRANSITION FROM SQUARE TO ROUND DUCT
	-	TRANSITION
	-	SQUARE VANED ELBOW
	-	DUCT RISE
	-	DUCT DROP
	FD/AD	FIRE DAMPER W/ ACCESS DOOR
	SD/AD	SMOKE DAMPER W/ ACCESS DOOR
	CFSD	COMBINATION FIRE/SMOKE DAMPER W/ ACCESS DOOR
	VD	VOLUME DAMPER
	AL	ACOUSTIC LINING
6x8	-	DUCT SIZE - 1ST FIGURE IS SIDE SHOWN
	FC	FLEXIBLE CONNECTION
SECTION NUMBER PAGE NUMBER	-	SECTION CALLOUT

GENERAL NOTES

1. CONTRACT DRAWINGS, AS FAR AS THEY RELATE TO THE GENERAL ARRANGEMENT AND LOCATION OF EQUIPMENT, SHEET METAL, AND PIPING, SHALL BE UNDERSTOOD AS DIAGRAMMATIC. ANY CHANGES TO EQUIPMENT, SHEET METAL, AND PIPING LOCATIONS NECESSARY TO AVOID INTERFERENCE WITH OTHER TRADES SHALL BE MADE AT NO EXTRA COST, AND MUST BE APPROVED BY THE ENGINEER.
2. REGISTERED DESIGN PROFESSIONAL ENERGY COMPLIANCE STATEMENT: TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, SUCH PLANS OR SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CODE.
3. 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.
4. THE MECHANICAL CONTRACTOR SHALL FURNISH AND INSTALL VOLUME DAMPERS IN DUCTWORK AS REQUIRED TO BALANCE THE AIRFLOW AT ALL REGISTERS AND DIFFUSERS TO THE CFM'S INDICATED ON PLAN, WHETHER SPECIFICALLY SHOWN ON THE DRAWINGS OR NOT.
5. PROVIDE ALL PIPE OPENINGS THROUGH PARTITIONS WITH PIPE SLEEVES. FOR PIPES PENETRATING FIRE RATED PARTITIONS, THE SPACE BETWEEN THE PIPE AND THE SLEEVE SHALL BE SEALED WITH FIRE STOPPING MATERIAL. PENETRATIONS FOR PIPING SHALL BE MADE BY CORE DRILLING WHENEVER POSSIBLE.
6. ACOUSTICALLY LINE ALL TRANSFER DUCTS. ACOUSTIC LINING SHALL BE 1" THICK. PROVIDE RETURN REGISTERS AT TRANSFER DUCT INLETS & OUTLETS LOCATED BELOW THE CEILING, OR IN AREAS WITH NO CEILING.
7. DUCT-MOUNTED SMOKE DETECTORS AND SAMPLING TUBES SHALL BE FURNISHED BY THE ELECTRICAL CONTRACTOR. THE MECHANICAL CONTRACTOR SHALL INSTALL EACH SAMPLING TUBE IN THE DUCTWORK. THE ELECTRICAL CONTRACTOR SHALL INSTALL AND WIRE EACH SMOKE DETECTOR. THE MECHANICAL CONTRACTOR SHALL NOT BRANCH OFF ANY DUCT REQUIRING A DUCT SMOKE DETECTOR BEFORE THE DUCT SMOKE DETECTOR. LOCATE SMOKE DETECTORS IN SERVICEABLE AREAS, NOT IN SHAFTS.
8. ALL MOTOR STARTERS AND DISCONNECT SWITCHES FOR HVAC EQUIPMENT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR, UNLESS OTHERWISE NOTED. DISCONNECT SWITCHES FURNISHED BY THE MECHANICAL CONTRACTOR FOR HVAC EQUIPMENT SHALL BE HEAVY DUTY TYPE.
9. THE MECHANICAL CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS PRIOR TO THE BEGINNING OF WORK, AND SHALL COORDINATE ALL WORK WITH OTHER TRADES.
10. 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.
11. LOCATE THERMOSTATS AND TEMPERATURE SENSORS 5'-6" ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED. COORDINATE LOCATION WITH FURNITURE, CABINETS, ETC. FURNISH LOCKING TAMPERPROOF COVER FOR ALL NEW THERMOSTATS IN PUBLIC AREAS.
12. COORDINATE DUCTWORK, GRILLE, DIFFUSER AND REGISTER LOCATIONS WITH LIGHTS, SPRINKLER HEADS, SMOKE DETECTORS, AND THE ARCHITECTURAL PLANS.
13. ALL EXPOSED DUCTWORK LOCATED IN AREAS WHERE THERE IS NO CEILING SHALL BE ROUND OR OVAL SPIRAL DUCTWORK, INTERNALLY LINED, PRIMED AND FINISHED PAINTED WITH FLAT ENAMEL. COORDINATE COLOR SELECTION WITH ARCHITECTURAL PLANS.
14. THE MECHANICAL CONTRACTOR SHALL SUBMIT FOR REVIEW A COMPOSITE SHOP DRAWING, FULLY COORDINATED WITH ALL OTHER TRADES, INDICATING DUCTWORK, PLUMBING AND SPRINKLER PIPING, SMOKE DETECTORS, LIGHTS, CONDUITS, SMOKE DETECTORS, DIFFUSERS, GRILLES, ETC.
15. 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.
16. 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. FLOOR REGISTERS AND GRILLES SHALL ALSO BE COVERED WITH 1/8" MASONITE.
17. WHEN GENERAL CONSTRUCTION IS COMPLETE, VACUUM CLEAN ALL DIFFUSERS, REGISTERS, GRILLES, AND HVAC EQUIPMENT IN THE PROJECT AREA OR SERVING THE PROJECT AREA. REMOVE ANY CONSTRUCTION DEBRIS. REPLACE ALL AIR FILTERS WITH NEW.
18. THE OWNER'S PERMANENT HVAC EQUIPMENT (NEW AND EXISTING) SHALL NOT BE USED BY ANY CONTRACTOR DURING CONSTRUCTION FOR TEMPORARY HEATING, COOLING, OR VENTILATION. IF TEMPORARY HEATING, COOLING, OR VENTILATION IS REQUIRED AT ANY POINT DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE TEMPORARY HEATING, COOLING, OR VENTILATION EQUIPMENT, DUCTWORK, CONTROLS, AND POWER AT HIS OWN EXPENSE.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING TEMPORARY VENTILATION AND EXHAUST AIR WHEN WELDING OR SOLDERING OPERATIONS ARE PERFORMED, AS REQUIRED BY OSHA.
20. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF MECHANICAL WORK, INCLUDING THE INSTALLATION OF HANGERS FOR PIPING, DUCTWORK, OR EQUIPMENT, SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.
21. THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING AND PAYING FOR ALL NECESSARY PERMITS AND FOR PAYING RELATED FEES.
22. THE MECHANICAL CONTRACTOR SHALL PROVIDE ALL CUTTING, PATCHING, CORE DRILLING, ACCESS PANELS, PAINTING, AND FINAL RESTORATION REQUIRED TO FACILITATE THE INSTALLATION OF HVAC DUCTWORK, CONTROL CONDUITS, AND PIPING, INCLUDING ABOVE CEILINGS AND IN SHAFTS THAT WILL NOT BE REPLACED OR OPENED UNDER ANY OTHER SCOPE OF WORK RELATED TO THIS PROJECT. CONTRACTOR TO REMOVE AND REPLACE CEILINGS, AND OPEN AND PATCH SHAFTS AND WALLS, AS REQUIRED TO EXECUTE THE MECHANICAL WORK.
23. ALL ROOF WORK ASSOCIATED WITH PENETRATIONS FOR NEW PIPING & CONTROL WIRING SHALL BE MADE BY THE BONDED ROOF CONTRACTOR.
24. REPLACE FILTERS FOR ALL EXISTING FAN COIL UNITS, AIR HANDLING UNITS, AND CABINET UNIT HEATERS AFTER CONSTRUCTION IS COMPLETE.
25. ALL DUCTWORK SHALL BE PRESSURE TESTED AND INSPECTED PRIOR TO CONCEALMENT IN GENERAL CONSTRUCTION OR INSTALLATION OF HUNG CEILINGS.
26. ON ALL HEATING ONLY EQUIPMENT (FINTUBE RADIATORS, UNIT HEATERS, CABINET UNIT HEATERS, AIR CURTAINS, ETC.) PROVIDE TWO AUTOMATIC CONTROL VALVES (ONE FOR EACH SUPPLY AND RETURN PIPE) CONNECTED TO THE BMS, ARRAGED TO CLOSE WHEN THE BUILDING IS IN COOLING OPERATION.

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NYSED PROJECT CONTROL No.
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PROJECT No.
NKGD0292.00

SHEET TITLE
MECHANICAL SYMBOLS, NOTES, AND GENERAL ABBREVIATIONS

SHEET No.
M001

COMMISSIONING NOTES

1. REFER TO SPECIFICATION SECTION 230800 AND SECTION 019113. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HIRING A 3RD PARTY COMMISSIONING AGENT.

2. PRIOR TO COMMISSIONING, THE CONTRACTOR SHALL PROVIDE A STATEMENT CONFIRMING THAT ALL SYSTEMS ARE FULLY OPERATIONAL AND ALL PRE-FUNCTIONAL TESTS AND CHECKS LISTED BELOW HAVE BEEN SUCCESSFULLY COMPLETED. SUBMIT A COPY OF ALL CHECK SHEETS FOR ENGINEER REVIEW AND APPROVAL.

3. PRE-FUNCTIONAL TESTS AND CHECKS (PREREQUISITES FOR COMMISSIONING):

   THE CONTRACTOR SHALL PERFORM THE FOLLOWING AT A MINIMUM -
   - ENSURE THAT ALL SUBMITTALS ARE COMPLETED AND APPROVED BY ENGINEER AND COMMISSIONING AGENT.
   - CERTIFY THAT ALL SYSTEMS TO BE COMMISSIONED, SUBSYSTEMS AND EQUIPMENT HAVE BEEN INSTALLED, CALIBRATED AND STARTED; ACCORDING TO THE CONTRACT DOCUMENTS COMPLETE. ALL MANUFACTURER STARTUP REQUIREMENTS.
   - CERTIFY THAT ALL RELEVANT INSTRUMENTATION AND CONTROL SYSTEMS HAVE BEEN COMPLETED AND CALIBRATED; ARE OPERATING ACCORDING TO CONTRACT DOCUMENTS; AND THAT PRETEST SET POINTS HAVE BEEN RECORDED.
   - CERTIFY THAT TESTING, ADJUSTING AND BALANCING (TAB) PROCEDURES HAVE BEEN COMPLETED AND THE TAB REPORT HAS BEEN SUBMITTED, DISCREPANCIES CORRECTED AND CORRECTIVE WORK APPROVED BY THE ENGINEER.
   - SET SYSTEMS, SUBSYSTEMS AND EQUIPMENT TO OPERATING MODE TO BE TESTED (E.G., NORMAL SHUT DOWN, NORMAL AUTO POSITION, NORMAL MANUAL POSITION, AND ALARM CONDITIONS)
   - VERIFY EACH OF THE SYSTEMS ONCE IT IS OPERATING IN A STEADY STATE CONDITION. REFER TO THE SEQUENCE OF OPERATIONS.
   - INSPECT AND VERIFY THE POSITION OF EACH DEVICE AND INTERLOCK IDENTIFIED ON CHECKLISTS. SIGN OFF EACH ITEM AS ACCEPTABLE OR FAILED. REPEAT THIS TEST FOR EACH OPERATING CYCLE THAT APPLIES TO SYSTEM BEING TESTED.
   - SIMULATE CONDITIONS REQUIRED IN ORDER TO TEST ALL SAFETY CUTOUTS, ALARMS AND INTERLOCKS WITH LIFE SAFETY SYSTEMS DURING EACH MODE OF OPERATION WHEN APPLICABLE.
   - ANNOTATE CHECKLIST OR DATA SHEET WHEN A DEFICIENCY IS OBSERVED.
   - VERIFY EQUIPMENT INTERFACE WITH MONITORING AND CONTROL SYSTEM.

3. AFTER PRE-AFUNCTIONAL TESTING IS COMPLETE, THE CONTRACTOR SHALL PERFORM FUNCTIONAL TESTING IN THE PRESENCE OF THE COMMISSIONING AGENT FOR THE SYSTEMS LISTED BELOW IN ACCORDANCE WITH THE COMMISSIONING SPECIFICATIONS:
   - BOILERS
   - BOILER PRIMARY PUMPS
   - HOT WATER SECONDARY PUMPS
   - DDC CONTROLS
   - EXHAUST FAN
   - ALL VALVES AND DAMPERS

4. AFTER FUNCTIONAL TESTING, THE COMMISSIONING AGENT (CX) SHALL ISSUE A REPORT OF TEST RESULTS AND DOCUMENT ANY DEFICIENCIES. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE CORRECTION OF ALL DEFICIENCIES. THE CONTRACTOR SHALL SEND A WRITTEN RESPONSE TO THE OWNER/ENGINEER/CX AGENT THAT AN OPEN ISSUE HAS BEEN RECTIFIED. THE DEFICIENCY SHALL NOT BE CONSIDERED RESOLVED UNTIL THE APPROPRIATE RETESTING IS PERFORMED WITH THE CX AGENT.

5. PRIOR TO TURNOVER (OWNER ACCEPTANCE), A COMPLETE AND SUCCESSFUL DEMONSTRATION OF ALL SYSTEM OPERATING FUNCTIONS AND ALARMS SHALL BE PERFORMED BY THIS CONTRACTOR IN THE PRESENCE OF THE OWNERS REPRESENTATIVE AND COMMISSIONING AGENT.

6. IN ADDITION TO THE ABOVE, THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR THE FOLLOWING:
   - PARTICIPATE IN MAINTENANCE ORIENTATION AND INSPECTION MEETING.
   - PARTICIPATE IN PROCEDURES MEETING FOR TESTING.
   - EXECUTE INSTALLATION PRE-FUNCTIONAL CHECK SHEETS.
   - SUPPORT FUNCTIONAL TESTING WITH QUALIFIED TECHNICIANS.
   - RESPOND TO CX DEFICIENCIES IN ACCORDANCE WITH OWNER SCHEDULE.
   - PARTICIPATE IN FINAL REVIEW AT ACCEPTANCE MEETING.
   - NOTIFY COMMISSIONING AGENT AT MINIMUM TWO WEEKS IN ADVANCE OF ANY TESTING.

SED NOTES

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

2. GENERAL SAFETY AND SECURITY STANDARDS FOR CONSTRUCTION PROJECTS:
   - 2.1. ALL CONSTRUCTION MATERIALS SHALL BE STORED IN A SAFE AND SECURE MANNER.
   - 2.2. FENCES AROUND CONSTRUCTION SUPPLIES OR DEBRIS SHALL BE MAINTAINED.
   - 2.3. GATES SHALL ALWAYS BE LOCKED UNLESS A WORKER IS IN ATTENDANCE TO PREVENT UNAUTHORIZED ENTRY.
   - 2.4. 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.
   - 2.5. WORKERS SHALL BE REQUIRED TO WEAR PHOTO-IDENTIFICATION BADGES AT ALL TIMES FOR IDENTIFICATION AND SECURITY PURPOSES WHILE WORKING AT OCCUPIED SITES.

3. 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 TO 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.
   - 3.1. 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.
   - 3.2. 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.
   - 3.3. 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.

4. 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.

5. 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.

6. 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.

7. LARGE AND SMALL ASBESTOS ABATEMENT PROJECTS AS DEFINED BY 12NYCRR56 SHALL NOT BE PERFORMED WHILE THE 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 EXISTS THAT DO NOT PASS THROUGH THE OCCUPIED PORTION AND VENTILATION SYSTEMS MUST BE PHYSICALLY SEPARATED AND SEALED AT THE ISOLATION BARRIER.

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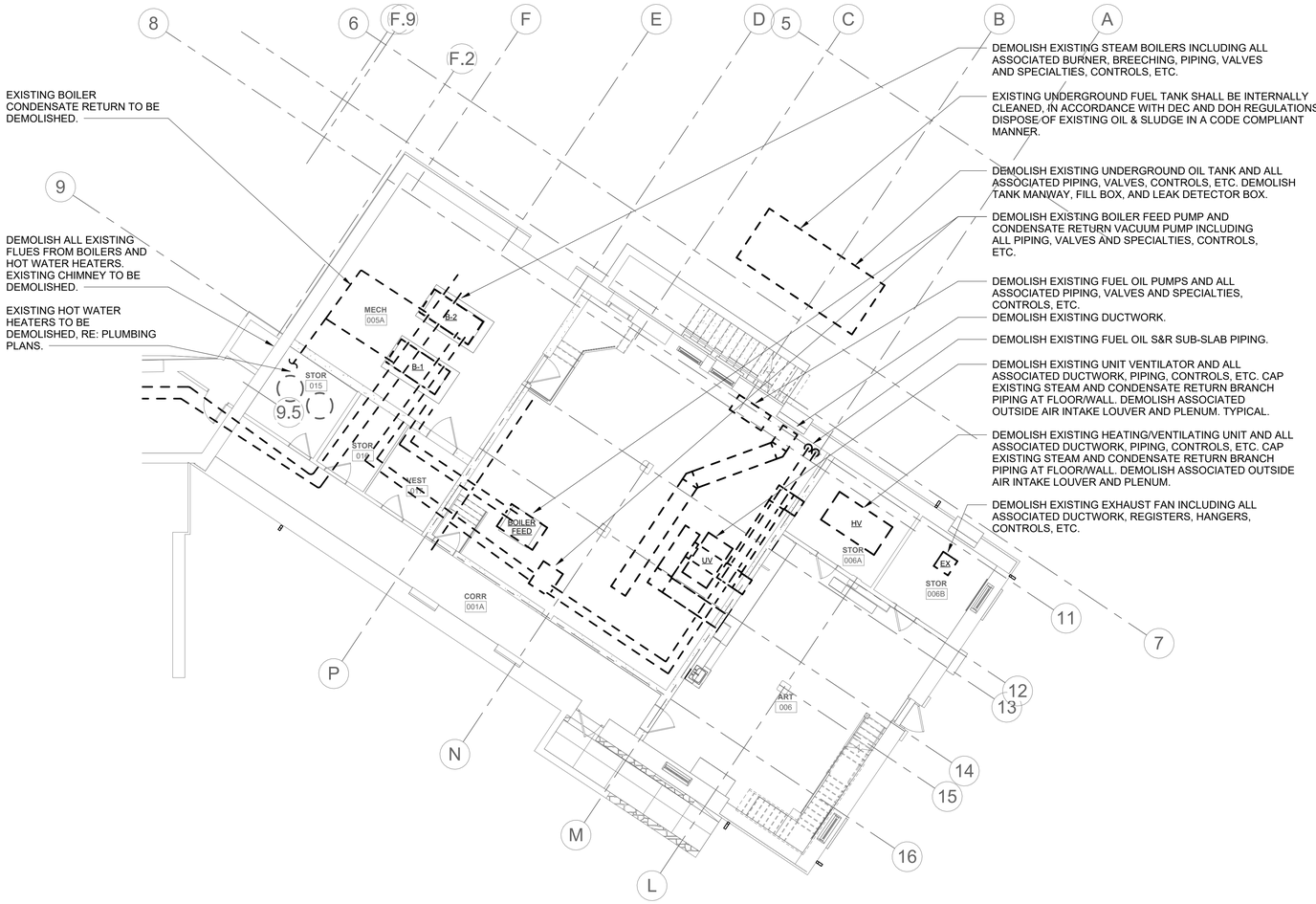
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PROJECT No.
NKGD0292.00

SHEET TITLE
MECHANICAL SYMBOLS, NOTES, AND GENERAL ABBREVIATIONS

SHEET No.
M002

DEMOLITION NOTES	
1.	DEMOLISH ALL EXISTING STEAM EQUIPMENT INCLUDING RADIATORS, CONVECTORS, FINTUBE, UNIT VENTILATORS, ETC. DEMOLISH ALL ASSOCIATED STEAM MAIN AND BRANCH PIPING, VALVES, SPECIALTIES, THERMOSTATS, CONTROL WIRING, PNEUMATIC TUBING, ETC. COMPLETE.



1 NORTH

MECHANICAL GROUND FLOOR DEMOLITION PLAN (AREA C)

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

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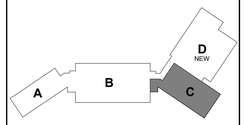
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KEY PLAN



PROJECT NORTH

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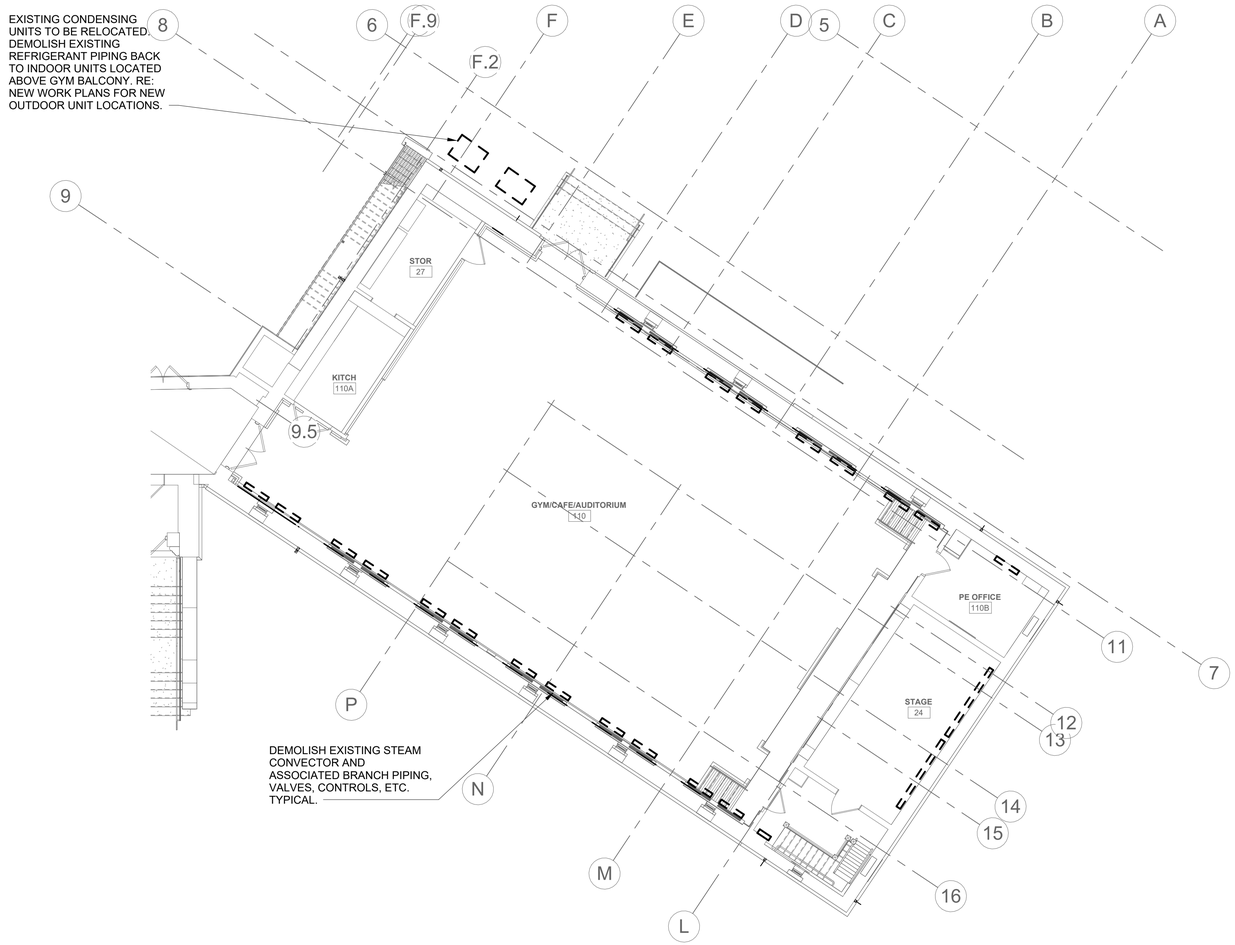
SHEET TITLE

MECHANICAL GROUND FLOOR DEMOLITION PLAN (AREA C)

SHEET No.

M101

DEMOLITION NOTES	
1.	DEMOLISH ALL EXISTING STEAM EQUIPMENT INCLUDING RADIATORS, CONVECTORS, FINTUBE, UNIT VENTILATORS, ETC. DEMOLISH ALL ASSOCIATED STEAM MAIN AND BRANCH PIPING, VALVES, SPECIALTIES, THERMOSTATS, CONTROL WIRING, PNEUMATIC TUBING, ETC. COMPLETE.



NORTH

1 MECHANICAL FIRST FLOOR DEMOLITION PLAN (AREA C)

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

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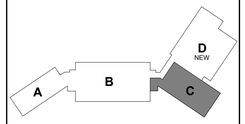
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KEY PLAN



PROJECT NORTH

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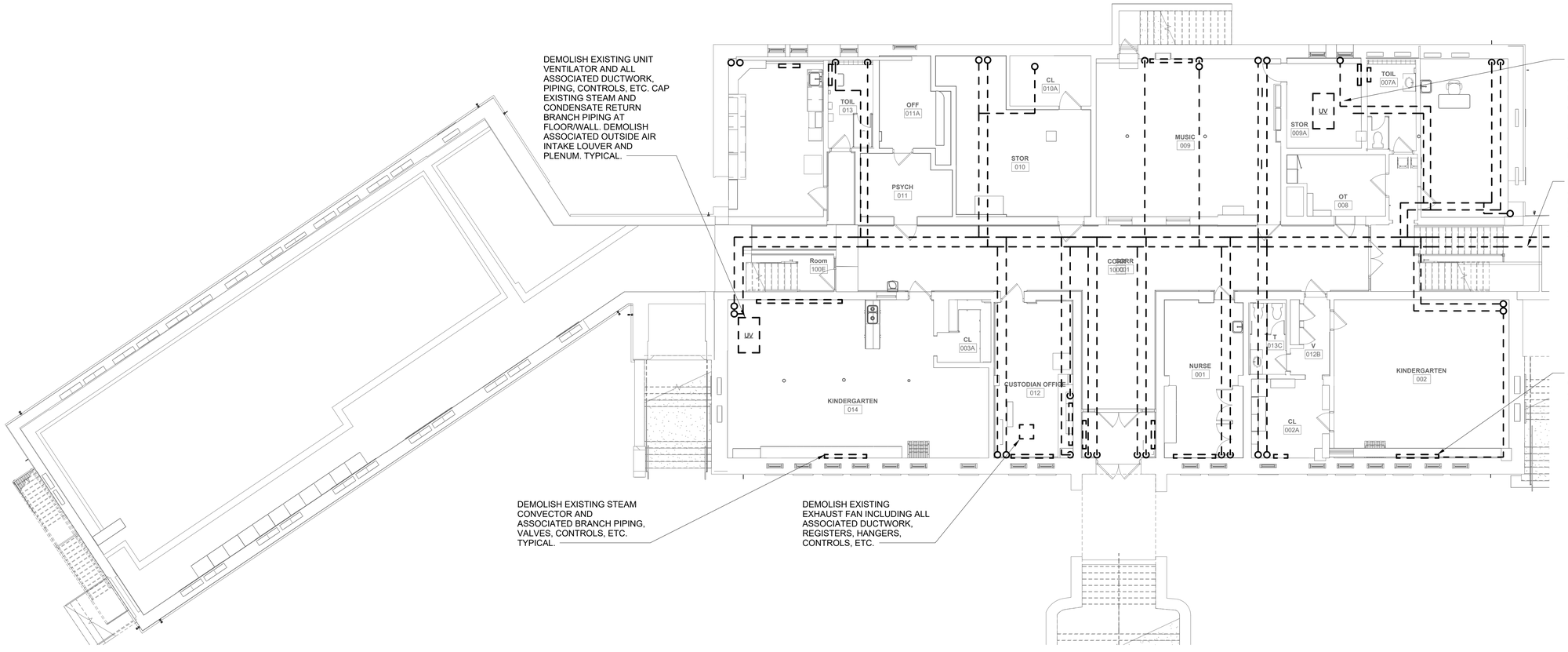
SHEET TITLE

MECHANICAL FIRST FLOOR DEMOLITION PLAN (AREA C)

SHEET No.

M102

DEMOLITION NOTES	
1.	DEMOLISH ALL EXISTING STEAM EQUIPMENT INCLUDING RADIATORS, CONVECTORS, FINTUBE, UNIT VENTILATORS, ETC. DEMOLISH ALL ASSOCIATED STEAM MAIN AND BRANCH PIPING, VALVES, SPECIALTIES, THERMOSTATS, CONTROL WIRING, PNEUMATIC TUBING, ETC. COMPLETE.



1 NORTH

MECHANICAL GROUND FLOOR DEMOLITION PLAN (AREA A&B)

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

11/9/2026 2:18:33 PM

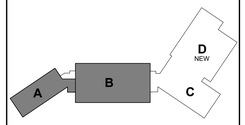
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KEY PLAN



PROJECT NORTH

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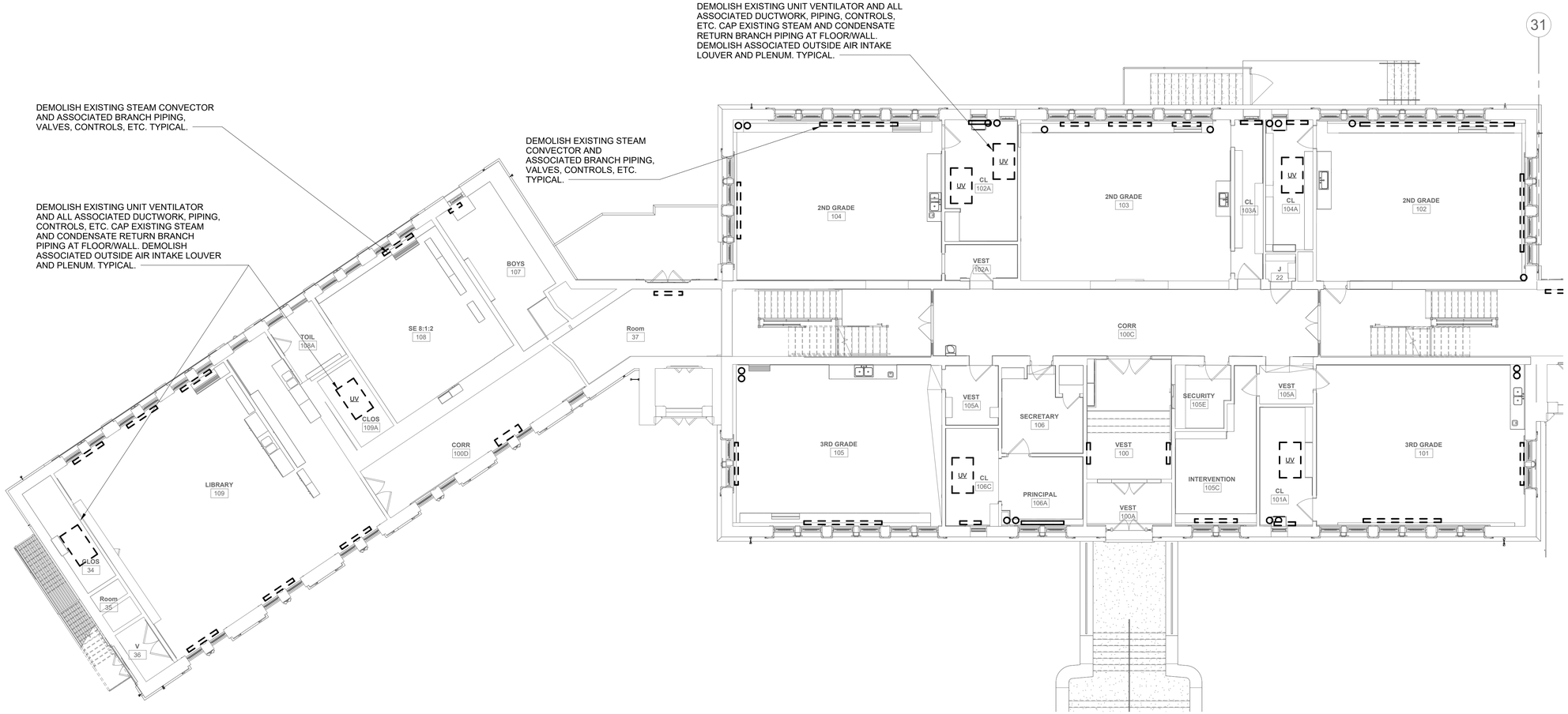
SHEET TITLE

MECHANICAL GROUND FLOOR DEMOLITION PLAN (AREA A&B)

SHEET No.

M103

DEMOLITION NOTES	
1.	DEMOLISH ALL EXISTING STEAM EQUIPMENT INCLUDING RADIATORS, CONVECTORS, FINTUBE, UNIT VENTILATORS, ETC. DEMOLISH ALL ASSOCIATED STEAM MAIN AND BRANCH PIPING, VALVES, SPECIALTIES, THERMOSTATS, CONTROL WIRING, PNEUMATIC TUBING, ETC. COMPLETE.



1 MECHANICAL FIRST FLOOR DEMOLITION PLAN (AREA A&B)

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

NORTH

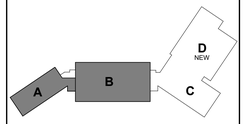
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KEY PLAN



PROJECT NORTH

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SHEET TITLE

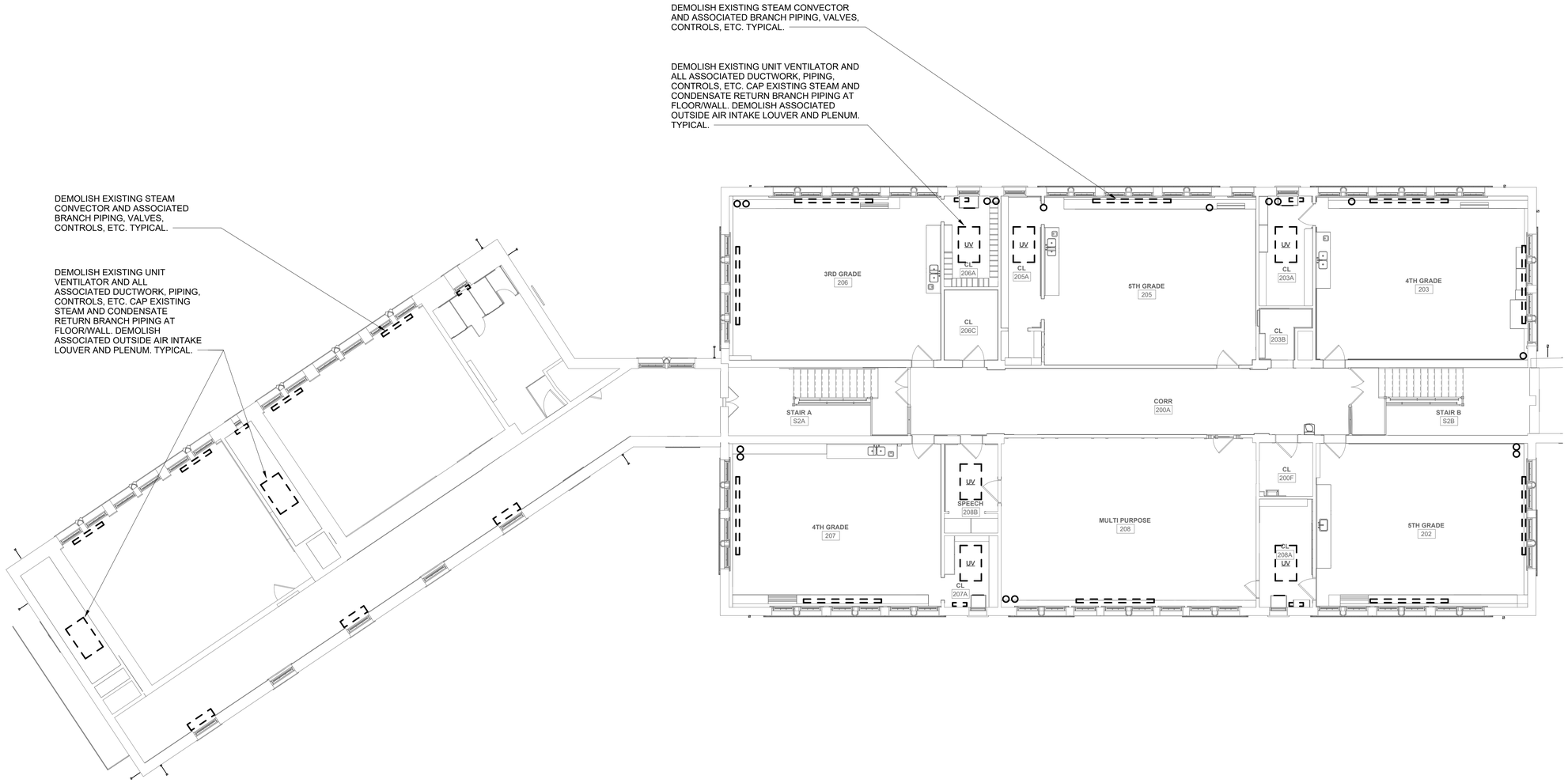
MECHANICAL FIRST FLOOR DEMOLITION PLAN (AREA A&B)

SHEET No.

M104

11/5/2026 2:16:34 PM

DEMOLITION NOTES	
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1 MECHANICAL SECOND FLOOR DEMOLITION PLAN (AREA A&B)

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

NORTH

11/9/2026 2:18:35 PM

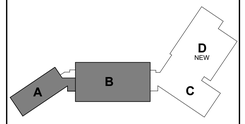
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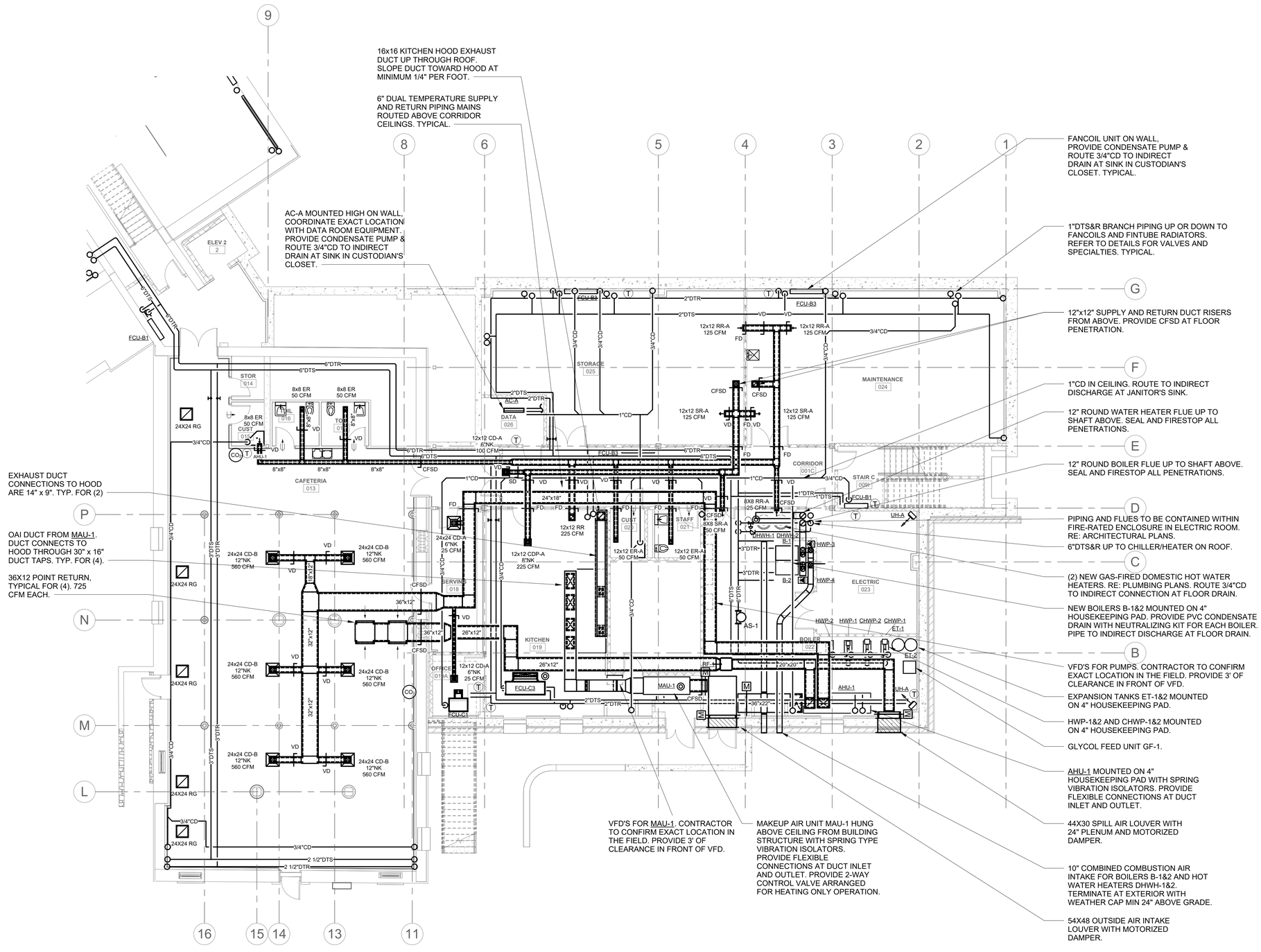
DATE: 11/12/2026

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SHEET TITLE
MECHANICAL SECOND FLOOR DEMOLITION PLAN (AREA A&B)

SHEET No.
M105



1 MECHANICAL GROUND FLOOR NEW WORK PLAN (AREA C&D)

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

NORTH

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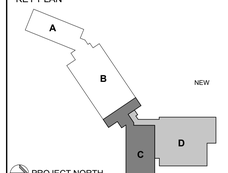
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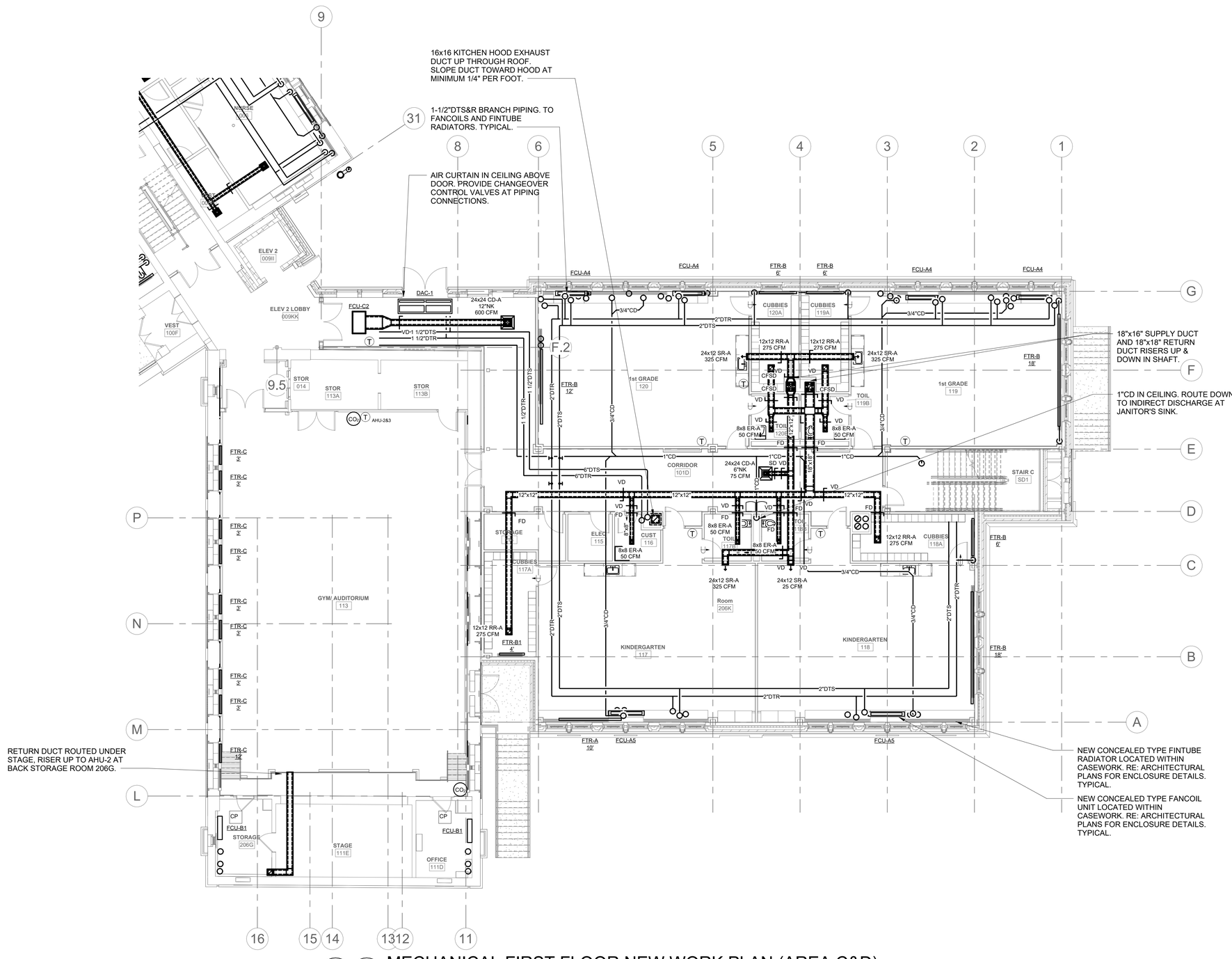
PROJECT No.
NKGD0292.00

SHEET TITLE

MECHANICAL GROUND FLOOR NEW WORK PLAN (AREA C&D)

SHEET No.

M201



1 MECHANICAL FIRST FLOOR NEW WORK PLAN (AREA C&D)

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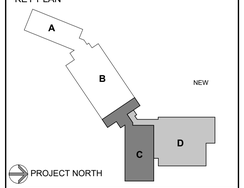
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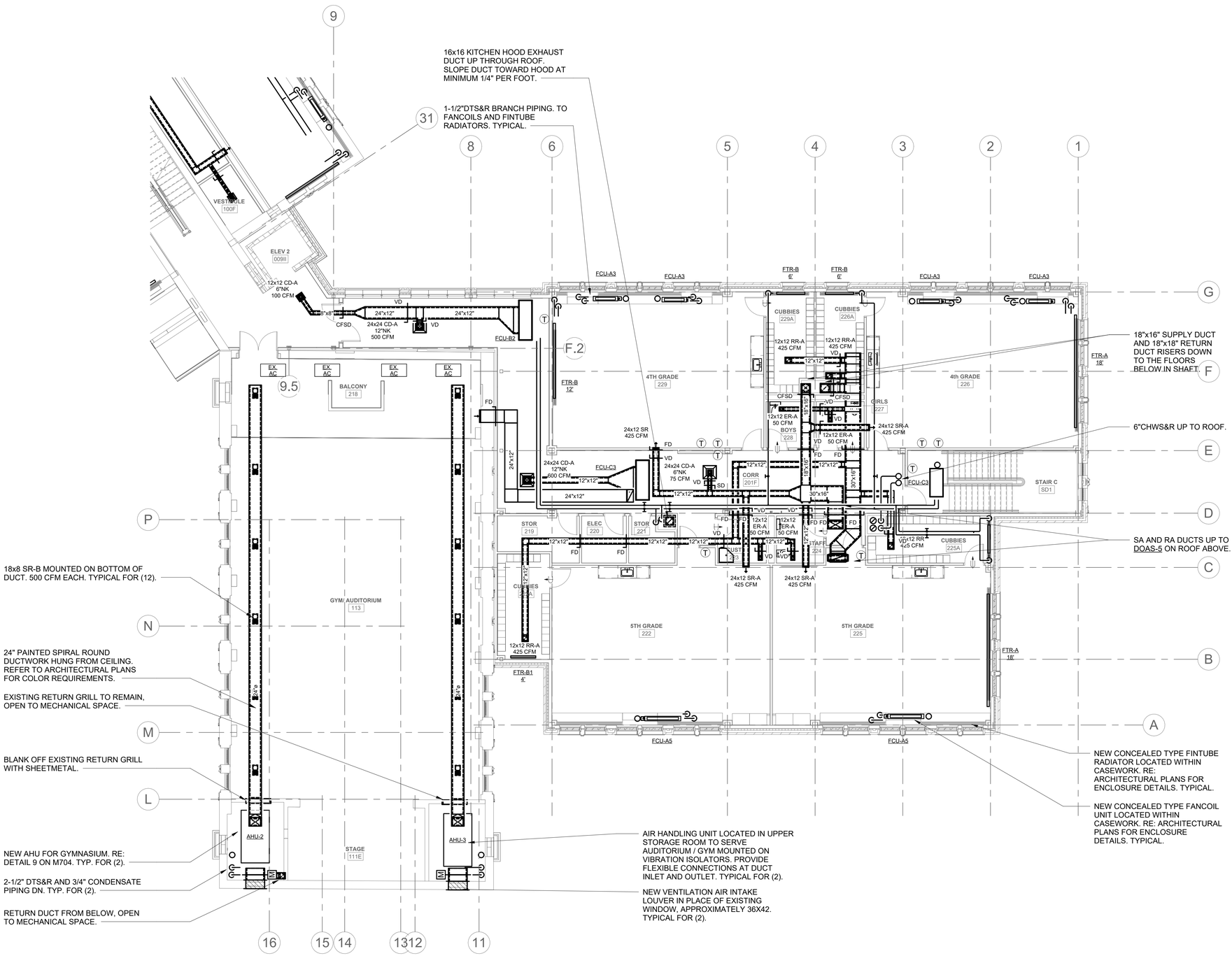
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SHEET TITLE

MECHANICAL FIRST FLOOR NEW WORK PLAN (AREA C&D)

SHEET No.

M202



1 NORTH

MECHANICAL SECOND FLOOR NEW WORK PLAN (AREA C&D)

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

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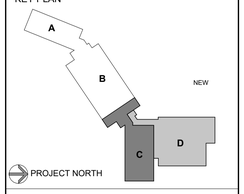
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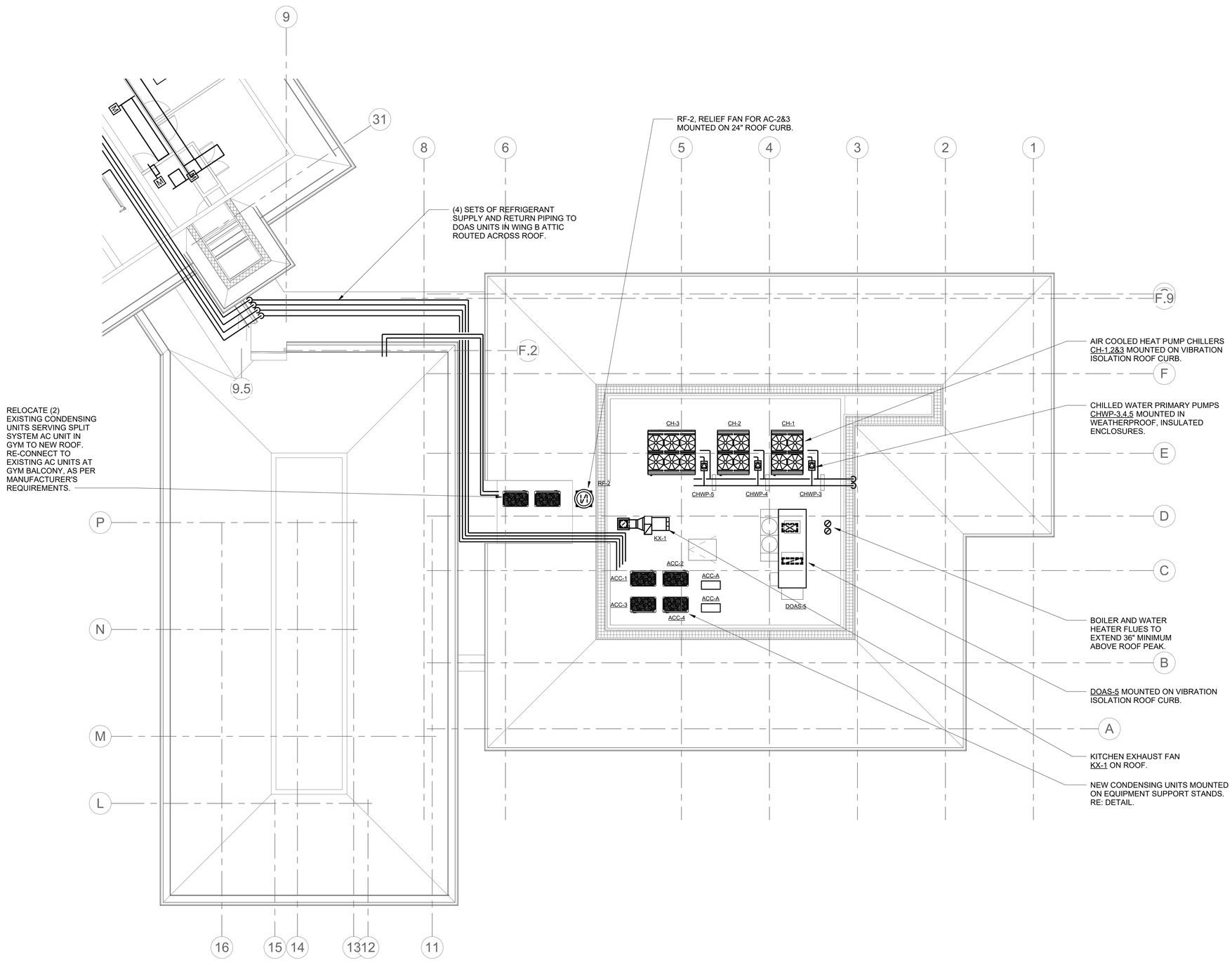
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SHEET TITLE

MECHANICAL SECOND FLOOR NEW WORK PLAN (AREA C&D)

SHEET No.

M203



NORTH

1 MECHANICAL ATTIC NEW WORK PLAN (AREA C&D)

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

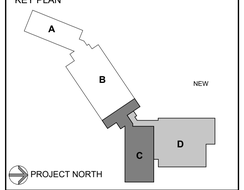
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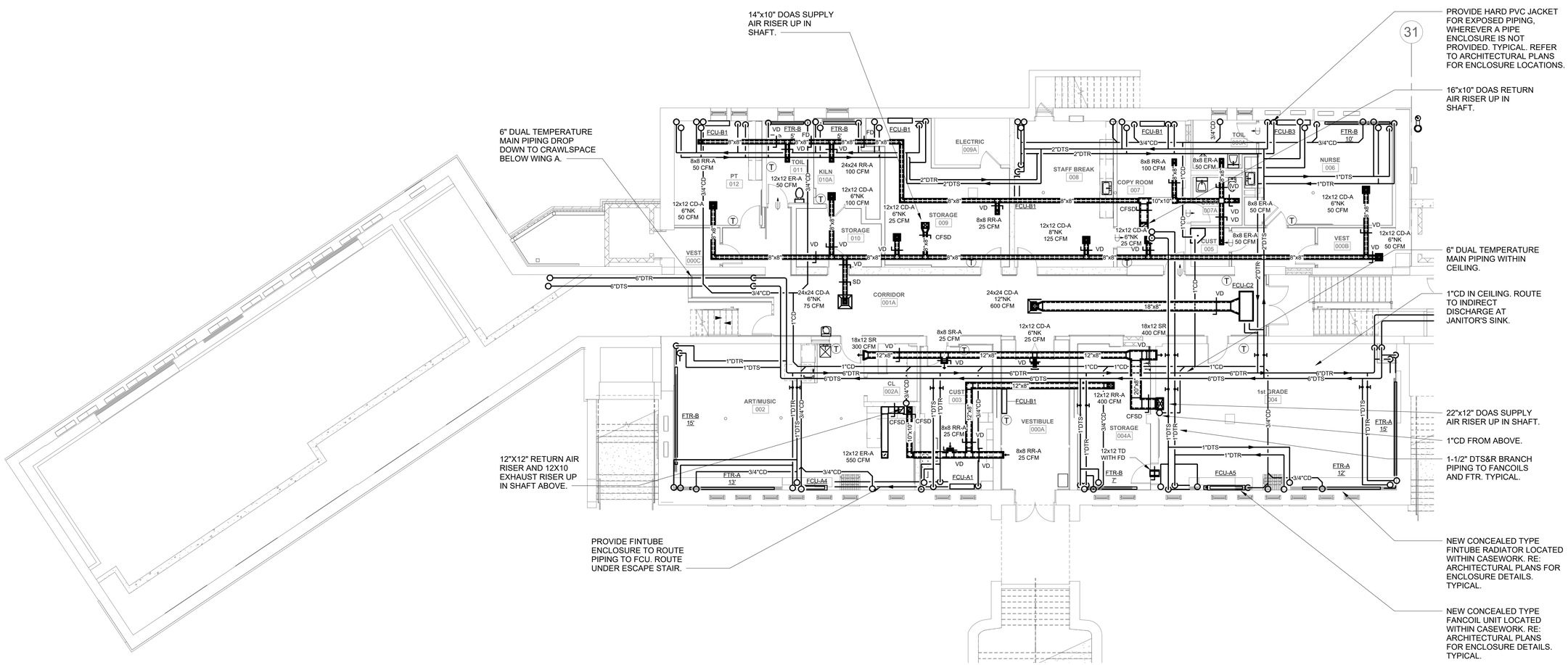
SHEET TITLE

MECHANICAL ROOF NEW WORK PLAN (AREA C&D)

SHEET No.

M204

11/9/2026 2:18:44 PM



NORTH

1 MECHANICAL GROUND FLOOR NEW WORK PLAN (AREA A&B)

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

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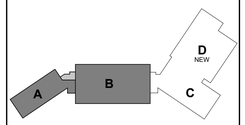
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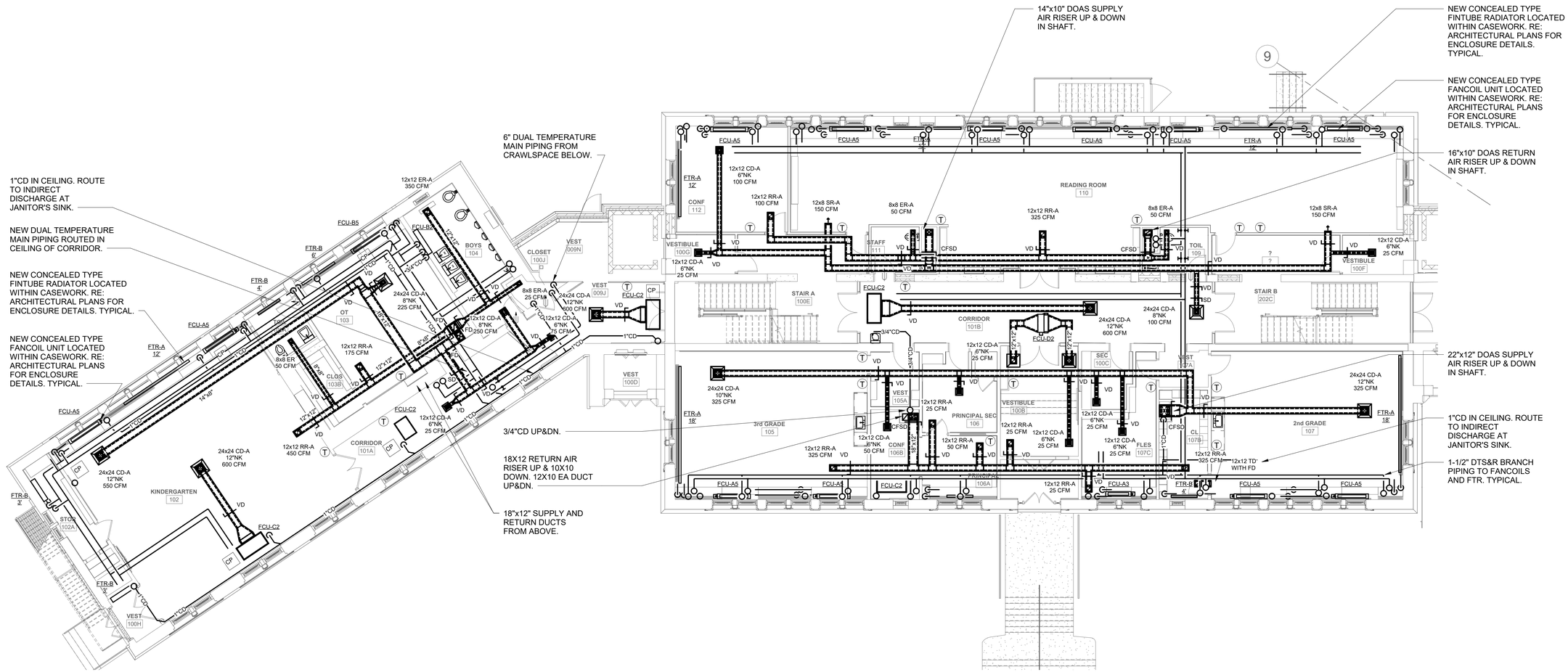
PROJECT No.
NKGD0292.00

SHEET TITLE

MECHANICAL GROUND FLOOR NEW WORK PLAN (AREA A&B)

SHEET No.

M205



1 MECHANICAL FIRST FLOOR NEW WORK PLAN (AREA A&B)

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

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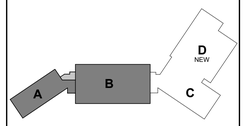
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KEY PLAN



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66-16-01-03-0-004-014

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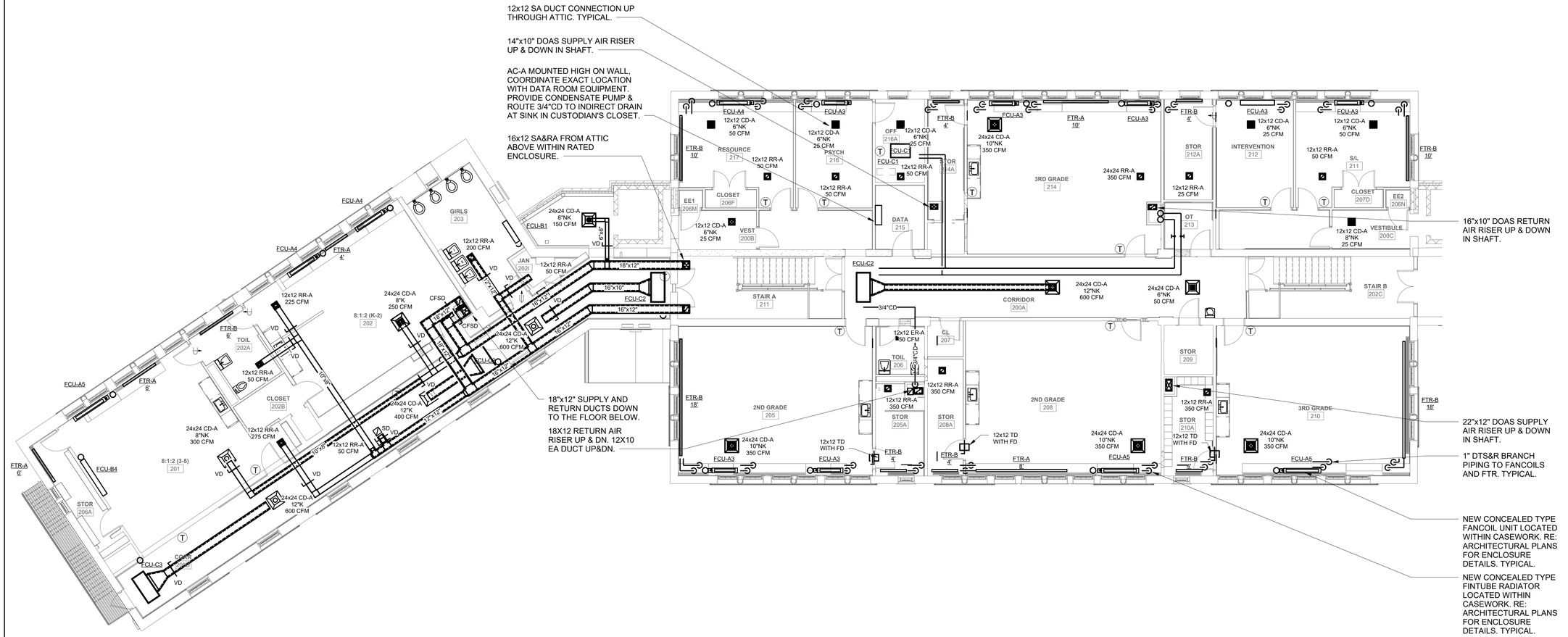
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SHEET TITLE

MECHANICAL FIRST FLOOR NEW WORK PLAN (AREA A&B)

SHEET No.

M206



NORTH

1 MECHANICAL SECOND FLOOR NEW WORK PLAN (AREA A&B)

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

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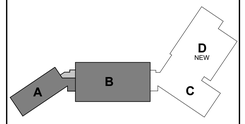
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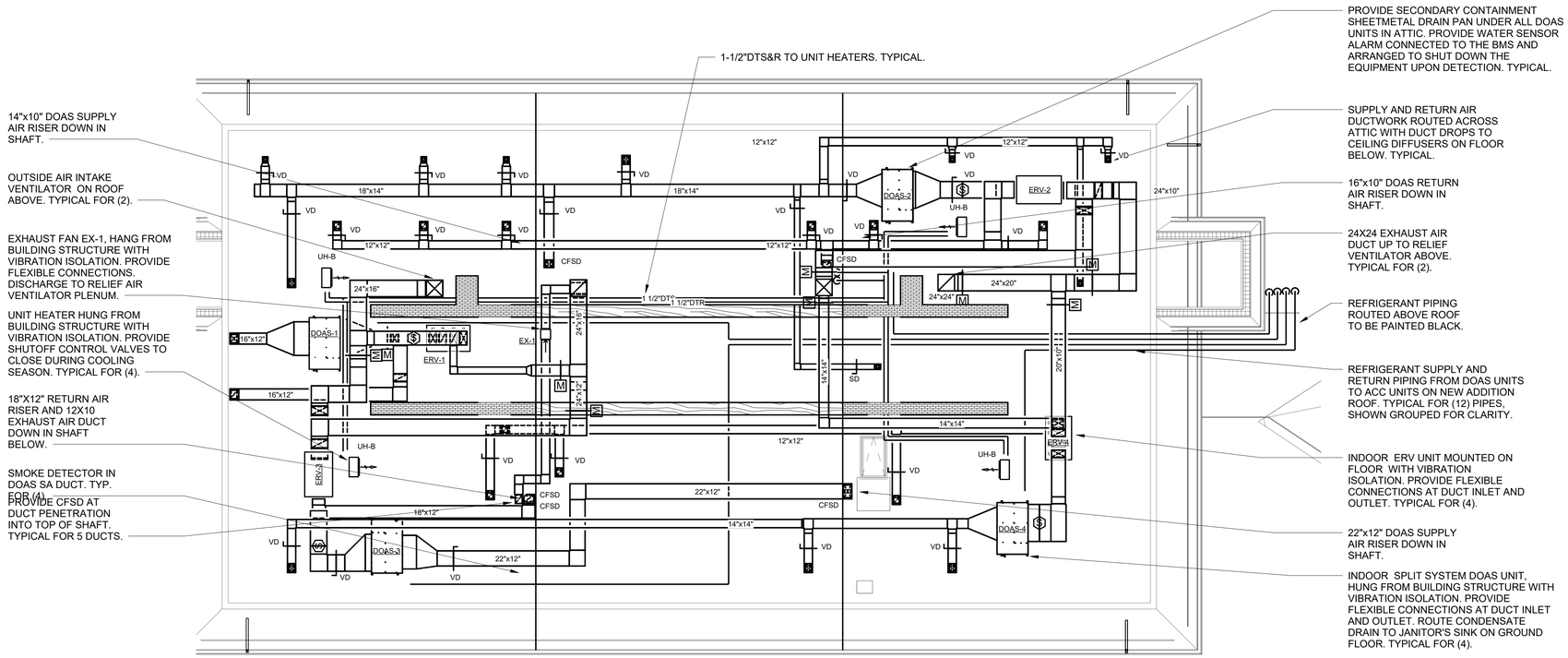
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SHEET TITLE

MECHANICAL SECOND FLOOR NEW WORK PLAN (AREA A&B)

SHEET No.

M207



1 MECHANICAL ATTIC NEW WORK PLAN (AREA A&B)

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

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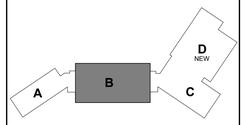
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SHEET TITLE

MECHANICAL ATTIC NEW WORK PLAN (AREA A)

SHEET No.

M208

PACKAGED DEDICATED OUTDOOR AIR SUPPLY UNITS

DESIGNATION	DOAS-5			
LOCATION	ATTIC			
AREA SERVED	AREA D - NEW ADDITION			
MANUFACTURER	LG			
MODEL	ARDE-112-41D-12.5I-2-A2			
WEIGHT (LBS)	3,298			
DESIGN DATA:				
SUPPLY AIR (CFM)	3,800			
OUTDOOR AIR (CFM)	3,800			
RETURN AIR (CFM)	3,400			
EXHAUST (CFM)	3,400			
SUMMER OA TEMP (°F) DB/WB	95/75			
SUMMER RA TEMP (°F) DB/WB	75/62.5			
WINTER OA TEMP (°F)	0			
WINTER RA TEMP (°F)	70			
EXHAUST FAN MODULE:				
DESIGN AIRFLOW (CFM)	3,400			
BHP/HP	3.23 / 7.5			
RPM	1,770			
ENERGY RECOVERY MODULE - ENTHALPY WHEEL TYPE:				
DESIGN OUTDOOR AIR (CFM)	3,800			
DESIGN EXHAUST AIR (CFM)	3,400			
SUMMER RECOVERY (TOTAL) (MBH)	109.4			
SUMMER E.A.T. (°F) DB/WB	95 / 75			
SUMMER L.A.T. (°F) DB/WB	82.5/67.8			
WINTER RECOVERY (MBH)	169.2			
WINTER E.A.T./L.A.T. (°F)	0 / 41.2			
FILTER:				
PRE-FILTER (SUPPLY)	MERV 8			
MAIN FILTER (SUPPLY)	MERV 13			
HOT WATER COIL MODULE:				
No. OF ROWS/FINS PER INCH	2/10/2026			
E.W.T./L.W.T. (°F)	180 / 160			
E.A.T./L.A.T. (°F)	41.2 / 90.6			
AIR P.D. (IN H_2O)	0.171			
CAPACITY (MBH)	202.9			
GPM	21.3			
W.P.D. (FT H_2O)	1.8			
DX COOLING COIL MODULE:				
No. OF ROWS/FINS PER INCH	6 / 14			
E.A.T. (°F) DB/WB	82.5/67.8			
L.A.T. (°F) DB/WB	55.2/55.2			
AIR P.D. (IN H_2O)	0.34			
CAPACITY (MBH) SENS./TOTAL	107/145.9			
REFRIGERANT	R-454B			
REHEAT COIL MODULE				
CAPACITY (MBH)	100.4			
SUPPLY FAN MODULE:				
DESIGN AIRFLOW (CFM)	3,800			
BHP/HP	3.23 / 7.5			
RPM	1770			
ESP/TSP (IN H_2O)	2 / 3.3			
SINGLE POINT POWER CONNECTION:				
VOLTS/Ø/Hz	208/3/60			
FLA/MCA/MOCP (AMPS)	88.6 / 98.2 / 125			

NOTES:
1. PROVIDE THE FOLLOWING:
• ENERGY RECOVERY MODULE W/ ENTHALPY WHEEL.
• HOT WATER COIL SHALL BE SIZED FOR 30% PROPYLENE GLYCOL SOLUTION.
• OUTDOOR UNITS (DOAS-5) SHALL BE MOUNTED ON VIBRATION ISOLATION ROOF CURB. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. LOWER PORTION OF VIBRATION CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.
• HOT WATER PIPING TO UNIT ON ROOF SHALL BE LOCATED IN A FACTORY FABRICATED AND INSULATED PIPE ENCLOSURE.
2. PROVIDE THE FOLLOWING OPTIONAL EQUIPMENT FOR EACH UNIT:
• 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL.
• FURNISH A FREEZE STAT ARRANGED TO OVERRIDE THE HOT WATER CONTROL VALVE AND SHUT DOWN UNIT, AS PER THE SEQUENCE OF OPERATIONS.
• FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.
• COORDINATE LEFT/RIGHT COIL CONNECTION AND FAN DRIVE IN FIELD.
• FURNISH 2-WAY MODULATING CONTROL VALVE FOR EACH COIL, WITH PIPING PACKAGE AS PER DETAIL. 5 PSI MAX AT CONTROL VALVE.
• ALL MODULATING DAMPERS SHALL BE OPPOSED-BLADE TYPE. OPEN/CLOSE DAMPERS MAY BE PARALLEL-BLADE TYPE.
3. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR EACH UNIT:
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, INTEGRATED WITH THE BUILDING AUTOMATION SYSTEM.
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
• ALL MOTOR STARTERS, VFDS, DISCONNECTS, ETC SHALL HAVE A NEMA RATED ENCLOSURE SUITABLE TO THE DEVICE'S INSTALLATION LOCATION.
• SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT. PROVIDE FACTORY INSTALLED, UNIT-MOUNTED, NON-FUSED LOCAL DISCONNECT SWITCH. MOTOR STARTERS AND VFD'S SHALL BE FACTORY INSTALLED.

EQUIPMENT NOTES

14. KITCHEN EXHAUST GREASE DUCT: SHALL BE SELKIRK MODEL IPS GREASE DUCT DOUBLE WALL ROUND CHIMNEY PIPING OR EQUIVALENT. PIPING SHALL BE U.L. 103 LISTED AND SHALL BE INSTALLED IN ACCORDANCE WITH NFPA 96 STANDARDS AND THE MANUFACTURER'S RECOMMENDATIONS. ALL PIPING AND FITTINGS SHALL BE DOUBLE WALL WITH 2" OF INSULATION 20 GAGE 304 STAINLESS STEEL, THE SHELL SHALL BE 24 GAGE ALUMINIZED STEEL. ALL SECTIONS SHALL BE SEALED WITH "V" BANDS AND HIGH TEMPERATURE JOINT CEMENT. ALL MISCELLANEOUS FASTENERS, BRACKET, SUPPORTS, ETC. SHALL BE STAINLESS STEEL. FURNISH ALL STRAIGHT PIPE SECTIONS, ELBOWS, END CAPS, CLEAN OUTS, ADAPTER KITS, SUPPORTS, INCREASERS, VARIABLE LENGTH SECTIONS, WALL GUIDES, FULL ANGLE RING HANGERS.

15. OUTSIDE AIR INTAKE FOR DOMESTIC HOT WATER HEATERS AND HEATING BOILERS: SHALL BE HEATFAB SINGLE WALL AL-29-4C STAINLESS STEEL "SAF-T VENT EZ SEAL PLUS". SPECIAL VENT UL 1738 FOR POSITIVE, NEUTRAL, AND NEGATIVE DRAFT UP TO 15"WC. PRODUCT IS RATED FOR ZERO CLEARANCE TO COMBUSTIBLES. PROVIDE STRAIGHT SECTIONS, ELBOWS, OFFSETS, CONNECTION ADAPTERS, WALL SLEAVES, AND SCREENED TERMINATIONS.

16. LISTED SPECIAL GAS VENTING: FOR DOMESTIC HOT WATER HEATERS AND HEATING BOILERS SHALL BE HEATFAB "SAF-T VENT CI PLUS". DOUBLE WALL CONSTRUCTION, 1" FIBERGLASS INSULATION, AL-29-4C STAINLESS STEEL. SPECIAL VENT UL 1738 FOR POSITIVE, NEUTRAL, AND NEGATIVE DRAFT UP TO 15"WC. PRODUCT IS RATED FOR ZERO CLEARANCE TO COMBUSTIBLES. PROVIDE STRAIGHT SECTIONS, ELBOWS, OFFSETS, CONNECTION ADAPTERS, WALL SLEAVES, AND SCREENED TERMINATIONS.

17. CONDENSATE PUMP (CP-1): SHALL BE LITTLE GIANT MODEL VCMA-20ULS-PRO, RATED AT 25 GPH @ 15' HEAD, WITH 1/2 GALLON TANK, 3/8" DISCHARGE CONNECTION, & SHUT-OFF AT 20' HEAD. MOTOR SHALL 1/30 HP, 93 WATTS, 115V/1ϕ/60Hz, 1.5 AMPS. INCLUDE THE FOLLOWING OPTIONS: SAFETY SWITCH, STRIPPED WIRE CORD END FOR HARD-WIRED POWER CONNECTION, THERMAL OVERLOAD PROTECTOR, NYLON SUMP PAN, POLYPROPYLENE CONTROL FLOAT, BUILT-IN CHECK VALVE, FILTER SCREEN, STAINLESS STEEL SHAFT.

18. GLYCOL AUTO-FILL UNIT (GF-1): SHALL BE ARMSTRONG MODEL GLA-S-HP-1, WITH 53 GALLON TANK CAPACITY, MIN 12 PSI FILL PRESSURE, 125 PSI MAXIMUM WORKING PRESSURE, 3/4 HP PUMP, 120V/1ϕ/60Hz ELECTRICAL CONNECTION. PROVIDE THE FOLLOWING FEATURES & OPTIONS:
- LOW LEVEL CUT-OUT FLOAT SWITCH.
- PUMP SUCTION ISOLATION VALVE.
- PUMP SUCTION STRAINER.
- POWER ON LAMP.
- SYSTEM PRESSURE GAUGE.
- AUTOMIX VALVE.
- PUMP DISCHARGE ISOLATION VALVE.
- HIGH LEVEL WARNING FLOAT SWITCH.
- LOW LEVEL WARNING FLOAT SWITCH.
- CONTACTS FOR REMOTE ANNUNCIATION OF HIGH LEVEL, LOW LEVEL, & PUMP RUN.
- PUMP H-O-A SWITCHES.
- STARTER & DISCONNECT SWITCH, TO BE FURNISHED BY MECHANICAL CONTRACTOR & INSTALLED BY ELECTRICAL CONTRACTOR.

19. ELECTRIC UNIT HEATER (UH-A): UNIT SHALL BE BASED ON MARKEL MODEL F3FUH07C03. UNIT SHALL BE RATED ACCORDING TO THE FOLLOWING SPECIFICATIONS:
- FAN CFM: 575
- ELECTRIC COIL CAPACITY (HI/LO): 25.6 MBH
- kW: 7.5
- VOLTS/PH/HZ: 208/3/60
- AMPS: 20.8
- FURNISH DISCONNECT SWITCH WITH EACH UNIT.

20. HORIZONTAL DISCHARGE HOT WATER UNIT HEATER (UH-B): SHALL BE VULCAN MODEL HV-072B, HORIZONTAL DISCHARGE CONFIGURATION, RATED AT 47 MBH, 5.3 GPM, 180°F EWT, 160°F LWT, 0.23' WPD (FT H_2O), 950 CFM. MOTOR SHALL BE RATED AT 1/20 HP, 1550 RPM, 1.4 AMPS, 15 MOCP, 115V/1ϕ/60HZ. PROVIDE WALL THERMOSTAT, FAN GUARD, AND AIR DEFLECTION LOUVER. HANG UNIT FROM BUILDING STRUCTURE WITH VIBRATION ISOLATORS. FURNISH DISCONNECT SWITCH.

21. DOOR AIR CURTAIN (DAC-1): SHALL BE BERNER MODEL ARE12-3088WB-CMCC, WITH A 99" NOZZLE WIDTH, HOT WATER HEAT, 13.5 GPM, 180/165 EWT/LWT, 107.3 MBH, 208V/1PH/60HZ, 12.9 MCA, 20 MOCP, BMS BACNET COMPATIBLE, CUSTOM COLOR WHITE. SHALL BE ARRANGED TO RUN AS SCHEDULED THROUGH THE BMS.

EQUIPMENT NOTES

1. HOT WATER FIN TUBE RADIATION: AS MANUFACTURED BY VULCAN RADIATOR.

   TYPE FTR-A:
   SHALL BE LINOVECTOR BARE ELEMENT ONLY, 1" COPPER TUBE WITH 4-1/4" x 4-1/4" ALUMINUM FINS, SPACED AT 50 FINS/FOOT, RATED 1020 BTU/HR/LF AT 170°F AVERAGE WATER TEMPERATURE. FURNISH PIPE BRACKETS EVERY 3' O.C. BALANCE TO 3.0 GPM, UNLESS OTHERWISE NOTED.

   TYPE FTR-B:
   ENCLOSURE SHALL BE LINOVECTOR STYLE LVS SLOPE TOP, 5-5/16" DEEP, 24" HIGH, 14 GAGE STEEL ENCLOSURE. FURNISH FACTORY INSTALLED KNOB OPERATED DAMPERS FOR ALL ENCLOSURES. MOUNT ENCLOSURE TIGHT TO WALL, 4" AFF. ELEMENT SHALL BE 1" COPPER TUBE WITH 3-5/8" x 4-1/4" ALUMINUM FINS, SPACED AT 50 FINS/FT, RATED AT 1,440 BTU/HR/LF @ 170°F AVERAGE WATER TEMP. FURNISH PIPE BRACKETS EVERY 3' O.C. BALANCE TO 3.0 GPM, UNLESS OTHERWISE NOTED.

   TYPE FTR-C:
   SHALL BE LINOVECTOR BARE ELEMENT ONLY, 3-TIER, 1" COPPER TUBE WITH 4-1/4" x 4-1/4" ALUMINUM FINS, SPACED AT 50 FINS/FOOT, RATED 2110 BTU/HR/LF AT 170°F AVERAGE WATER TEMPERATURE. FURNISH PIPE BRACKETS EVERY 3' O.C. BALANCE TO 3.0 GPM, UNLESS OTHERWISE NOTED.

   FURNISH ALL REQUIRED PIPE AND ENCLOSURE SUPPORTS, BRACKETS, AND FASTENERS ETC. FURNISH VALVE ACCESS DOORS AND KNOCK OUT FOR ELECTRICAL RECEPTACLES. FURNISH END CAPS AND CORNER ANGLES, RUN ENCLOSURES CONTINUOUS WALL TO WALL. FINISH SHALL BE BAKED ON ENAMEL, SUBMIT COLOR CHART FOR REVIEW AND APPROVAL.

2. DUAL TEMPERATURE SYSTEM EXPANSION TANK (ET-1&2): SHALL BE ARMSTRONG MODEL A300-L, 24" DIAMETER, 53" HIGH, 80 GALLONS, WITH 1-1/2" NPT SYSTEM CONNECTION, 1-1/2" NPT CHARGING VALVE, 3/4" DRAIN PLUG, 240°F MAX OPERATING TEMPERATURE, 125 PSI MAX WORKING PRESSURE, FACTORY PRE-CHARGED TO 12 PSIG. UNIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ASME SECTION VIII.

3. VORTEX AIR SEPARATOR: SHALL BE ARMSTRONG MODEL VA-6, 375°F MAXIMUM WORKING TEMPERATURE, 160 PSIG MAXIMUM WORKING PRESSURE, 6" INLET & OUTLET CONNECTIONS WITH 150# ANSI FLANGES, 1-1/2" NPT AIR OUTLET, 1" NPT DRAIN. UNIT SHALL BE MANUFACTURED IN ACCORDANCE WITH ASME CODE.

4. AUTOMATIC AIR ELIMINATOR: SHALL BE ARMSTRONG MODEL AAE-750, WITH 250°F MAXIMUM OPERATING TEMPERATURE, 2-133 PSIG AIR PRESSURE OPERATING RANGE, 100% SPRING ACTION POSITIVE SHUTOFF, 3/4" NPT SYSTEM CONNECTION.

5. CHEMICAL SHOT FEEDER: SHALL BE NEPTUNE VERTICAL 5-GALLON MODEL DBF-5HP. THE FEEDER SHELL SHALL BE CONSTRUCTED OF 10 GAUGE STEEL. TANK HEADS SHALL BE 9 GAUGE STEEL FOR 5 GALLON UNITS. THE BYPASS FEEDER SHALL BE RATED AT 300 PSI AND TO 2000F. TANK SHALL HAVE A WIDE MOUTH, 3-1/2" WITH CAST IRON CAP AND CLOSURE GASKET. TANK & ALL ACCESSORIES SHALL BE EPOXY COATED. PROVIDE OPTIONAL LEGS & 5 MICRON FILTER.

6. FIRE DAMPERS: SHALL BE RUSKIN MODEL DIBD-2, 1-1/2 HOUR UL555 RATED, SUITABLE FOR INSTALLATION IN WALL AND FLOOR PARTITIONS WITH FIRE RATINGS OF LESS THAN 3 HOURS. DAMPER SHALL BE A COMPLETE FACTORY PACKAGE INCLUDING U.L. APPROVED ANGLES, WALL SLEEVE, AND BREAKAWAY CONNECTIONS. DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 2,000 FPM AND 4.0" SP.

7. SMOKE DAMPERS: SHALL BE POTTORFF MODEL SD-141, CLASS 1 UL555S RATED, SUITABLE FOR INSTALLATION IN RATED WALL AND FLOOR PARTITIONS. DAMPER SHALL BE A COMPLETE FACTORY PACKAGE INCLUDING U.L. APPROVED ANGLES, WALL SLEEVE, AND BREAKAWAY CONNECTIONS. 120V POWER OPEN SPRING CLOSED ACTUATOR. PROVIDE CLOSURE DEVICE WITH MANUAL RESET (PROVIDE INDICATOR SWITCH PACKAGE). DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 2,000 FPM AND 4.0" SP. INSTALL DUCT SMOKE DETECTOR WITHIN 5' OF DAMPER. DUCT SMOKE DETECTOR SHALL BE PURCHASED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. DUCT SMOKE DETECTOR SHALL BE WIRED BY THE ELECTRICAL CONTRACTOR.

8. COMBINATION FIRE/SMOKE DAMPERS: SHALL BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A AND UL LABELS. RUSKIN MODEL FSD60 (RECTANGULAR DUCTWORK) OR FSDR25 (ROUND DUCTWORK) UL 555S OPPOSED BLADE DAMPER, HIGH PERFORMANCE AND LOW LEAKAGE CLASS 1. DAMPER SHALL BE RATED FOR DYNAMIC AIRFLOW CONDITIONS OF 2,000 FPM AND 4.0" SP. FURNISH UL RATED ELECTRIC DAMPER ACTUATOR AND CONTROL SWITCHES AS REQUIRED. DAMPER SHALL BE FURNISHED WITH FACTORY WELDED INTEGRAL WALL SLEEVE, FRAME MOUNTING ANGLES, G STYLE WITH 3/4" MOUNTING FLANGE, AND EITHER DUCTMATE OR SLIP DRIVE BREAK AWAY CONNECTIONS. 120V/1ϕ/60Hz; 0.25 AMPS; 23 WATTS. COORDINATE ROTATION IN FIELD. FURNISH DISCONNECT AND END SWITCH. SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED BY THE MECHANICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL COORDINATE WITH ELECTRICAL CONTRACTOR. MECHANICAL CONTRACTOR SHALL PROVIDE ACCESS DOORS IN DUCTWORK AT SMOKE DETECTOR LOCATIONS AS REQUIRED.

9. VOLUME CONTROL DAMPERS: FOR ALL ROUND & RECTANGULAR VOLUME CONTROL DAMPERS THAT ARE LOCATED ABOVE INACCESSIBLE CEILINGS, PROVIDE CABLE OPERATED DAMPERS. ROUND DAMPERS SHALL BE YOUNG BOWDEN MODEL 5020-CC. RECTANGULAR DAMPERS SHALL BE MODEL 830-CC2. CABLE CONTROLS SHALL BE MODEL 270-275 FOR CONCEALED LOCATIONS & MODEL 270-896C FOR LOCATIONS WHERE CABLES TERMINATE IN FINISHED SPACES. COORDINATE LOCATIONS IN THE FIELD.

10. MOTORIZED DAMPERS: SHALL BE RUSKIN MODEL CD40, 4" DEEP EXTRUDED ALUMINUM AIRFOIL DAMPER. DAMPER SHALL HAVE OPPOSED BLADES, MOTOR AND LINKAGE. DAMPERS SHALL BE 120V/1ϕ/60Hz, 3 AMPS MAX. FURNISH DISCONNECT SWITCH.

11. LOUVERS: SHALL BE RUSKIN MODEL ELF375DX, 4" DEEP, WITH 54% FREE AREA, 6063T5 EXTRUDED ALUMINUM DRAINABLE BLADES AT 37.5° AND 5-3/32" SPACING, 4" DEEP 6063T5 EXTRUDED ALUMINUM FRAME. AND 1/2" GALVANIZED STEEL BIRD SCREEN. MINIMUM LOUVER SIZE 12"x12". ANODIZED CUSTOM COLOR TO BE SELECTED BY ARCHITECT. COORDINATE WITH ARCHITECTURAL PLANS.

12. PIPE PENETRATION ROOF CURBS: SHALL BE PATE MODEL PCA-5. PIPE CURB ASSEMBLY SHALL CONSIST OF 18 GAUGE GALVANIZED STEEL ROOF CURB, UNITARY CONSTRUCTION, WITH INTEGRAL BASE PLATE, 1-1/2" INSULATION, 2x2 TREATED WOOD NAILER, ACRYLIC CLAD THERMOPLASTIC COVER, FASTENING SCREWS, & GRADUATED STEP BOOTS WITH STAINLESS STEEL CLAMPS. CONTRACTOR TO SELECT CAP & BOOT PACKAGE BASED ON QUANTITY & SIZE OF PIPE PENETRATIONS. PROVIDE FLASHING AND COUNTER FLASHING FOR A CURBS SHALL BE CUSTOM FABRICATED, SUCH THAT THE WATERTIGHT SEAL. CAP IS MOUNTED LEVEL. CONTRACTOR TO VERIFY EXACT ROOF PITCH ANGLE IN FIELD.

13. EQUIPMENT ROOF CURBS: SHALL BE CUSTOM CURB MODEL CES-1, 12" NOMINAL HEIGHT, LENGTHS AS INDICATED ON DRAWINGS. MOUNT EQUIPMENT ON MASON TYPE "SLF" OR "SLFH" VIBRATION ISOLATORS. CURBS SHALL BE CUSTOM FABRICATED, SUCH THAT EACH OUTDOOR CONDENSING UNIT IS MOUNTED LEVEL. CONTRACTOR TO VERIFY ROOF PITCH ANGLE IN FIELD, PRIOR TO ROOF CURB FABRICATION.

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PROJECT No.
NKGD0292.00

SHEET TITLE
MECHANICAL SCHEDULES AND EQUIPMENT NOTES

SHEET No.
M601

AIR-COOLED PACKAGED HEATER/CHILLER SCHEDULE

DESIGNATION	CH-1,2	CH-3
LOCATION	ADDITION ROOF	ADDITION ROOF
MANUFACTURER	LG	LG
MODEL	KCHH040VDGC	KCHH060VDGC
WEIGHT (LBS.)	2,094	3,064
EER / NPLV	10.43 / 20.13	10.43 / 20.13
EVAPORATOR:		
DESIGN CAPACITY (TONS)	36	52
DESIGN FLOWRATE (GPM)	88	132
E.W.T./L.W.T. (°F)	55/45	55/45
W.P.D. (FT H_2O)	8.36	8.36
REFRIGERATION SYSTEM:		
No. OF REFRIGERANT CIRCUITS	4	6
REFRIGERANT TYPE	R-32	R-32
FANS:		
QUANTITY	4	6
H.P. (EA.)		
TOTAL AIRFLOW CFM	34,750	52,100
ELECTRICAL DATA:		
VOLTS/Ø/Hz	208/3/60	208/3/60
INPUT POWER (kW)	41.67	62.5
No. OF CIRCUITS	1	2
MCA (AMPS)	160	#1 - 160 #2 - 80
MOCP (AMPS)	175	#1 - 175 #2 - 90

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS:
• THE CHILLED WATER SYSTEM SHALL UTILIZE 30% PROPYLENE GLYCOL SOLUTION.
• ULTRA QUIET FANS.
• LOW SOUND ACOUSTICALLY LINED COMPRESSOR ENCLOSURE.
• WIRE MESH SECURITY GRILLES.
• 1-1/2" INSULATION ON EVAPORATOR.
• FLOW SWITCH.
• BUILDING AUTOMATION SYSTEM INTERFACE.
• SERVICE SUCTION ISOLATION VALVE FOR EACH REFRIGERANT CIRCUIT.
• PRESSURE RELIEF SERVICE VALVE KIT.
• 1" VIBRATION ISOLATION PACKAGE BY CHILLER MANUFACTURER.
• CONTROL TRANSFORMER.
• MICROPROCESSOR CONTROLS.
2. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS:
• SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT, WITH FACTORY INSTALLED, UNIT-MOUNTED, NON-FUSED DISCONNECT SWITCH.
• ALL MOTOR STARTERS AND VARIABLE FREQUENCY DRIVES SHALL BE FACTORY INSTALLED.
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY.
• ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
• ALL MOTOR STARTERS, VFDS, DISCONNECTS, ETC SHALL HAVE A NEMA RATED ENCLOSURE SUITABLE TO THE DEVICE'S INSTALLATION LOCATION.
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.

FAN COIL UNIT SCHEDULE

DESIGNATION:	FCU-A1	FCU-A2	FCU-A3	FCU-A4	FCU-A5	FCU-B1	FCU-B2	FCU-B3	FCU-B4	FCU-C1	FCU-C2	FCU-C3
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL	42VAD03	42VAD04	42VAD08	42VAD10	42VAD12	42VFD03	42VFD04	42VFD08	42VFD10	42CKA02H-JY5	42CKA06H-JY5	42CKA10H-JY5
TYPE	VERTICAL CONCEALED	VERTICAL CONCEALED	VERTICAL CONCEALED	VERTICAL CONCEALED	VERTICAL CONCEALED	VERTICAL SLOPE TOP	VERTICAL SLOPE TOP	VERTICAL SLOPE TOP	VERTICAL SLOPE TOP	HORIZONTAL	HORIZONTAL	HORIZONTAL
UNIT DIMENSIONS - W x H x D (IN)	27 x 25 x 9	33 x 25 x 9	45 x 25 x 9	59 x 25 x 9	67 x 25 x 9	45 x 29 x 9	51 x 29 x 9	63 x 29 x 9	77 x 29 x 9	35 x 14 x 26	53 x 14 x 26	75 x 14 x 26
WEIGHT (LBS)	47	57	79	108	127	69	83	102	135	60	82	135
FILTERS:												
TYPE	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8	MERV 8
HOT WATER COIL:												
No. OF ROWS/FINS PER INCH	1 / 10	1 / 10	1 / 10	1 / 10	1 / 10	1 / 10	1 / 10	1 / 10	1 / 10	1 / 10	1 / 10	1 / 10
E.W.T./L.W.T. (°F)	180 / 160	180 / 160	180 / 160	180 / 151.2	180 / 145	180 / 160	180 / 160	180 / 160	180 / 152.3	180 / 160	180 / 160	180 / 160
E.A.T./L.A.T. (°F)	55 / 96	55 / 95.8	55 / 96.4	55 / 94.1	55 / 93.1	55 / 97.7	55 / 95.4	55 / 99.2	55 / 95.7	55 / 95	55 / 95	55 / 95
CAPACITY (MBH)	10.7	16	29.1	38.5	42.9	10.3	16.2	26.1	37	9.6	26	43.4
GPM	1.2	1.7	3.4	2.9	2.7	1.1	1.8	2.8	2.9	1.1	2.2	4.8
W.P.D. (FT H_2O)	1	2.3	9.3	10	10	0.9	2.4	7.5	10	<10	<10	<10
CHILLED WATER COIL:												
No. OF ROWS/FINS PER INCH	4 / 10	4 / 10	4 / 10	4 / 10	4 / 10	4 / 10	4 / 10	4 / 10	4 / 10	4 / 10	4 / 10	4 / 10
E.W.T./L.W.T. (°F)	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55	45 / 55
E.A.T. (°F) DB/WB	72 / 60	72 / 60	72 / 60	72 / 60	72 / 60	72 / 60	72 / 60	72 / 60	72 / 60	72 / 60	72 / 60	72 / 60
L.A.T. (°F) DB/WB	53.5/52.1	53.5 / 52	53.8 / 52.3	54.2 / 52.7	54 / 52.5	53.4 / 52	53.6/52.1	53.4 / 52	54.1 / 52.6	54 / 53	54 / 53	54 / 53
CAPACITY (MBH) SENS./TOTAL	4.8 / 5.2	8.6/13.1	14.1/20.6	19.6/29.5	26.3/35.3	5.7/8.6	8.6/13.1	14.1/20.6	19.6/29.5	3.7 / 4.1	10.6 / 11.7	16.7 / 18.6
GPM	1.1	1.7	3	4	4.6	1.1	1.7	2.6	3.7	0.9	2.6	4.1
W.P.D. (FT H_2O)	4.3	1	5	2.1	2.7	4.1	10	4.3	1.9	<10	<10	<10
SUPPLY FAN:												
CFM	240	360	650	900	1050	225	375	550	850	200	600	1000
ESP (IN H_2O)	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1	0.1
VOLTS/Ø/Hz	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60	208/1/60
FLA/MCA/MOCP	0.9 / 1.13 / 15	1 / 1.25 / 15	1.6 / 2 / 15	2.6 / 2.93 / 15	3.2 / 3.6 / 15	0.9 / 1.13 / 15	1 / 1.25 / 15	1.6 / 2 / 15	2.6 / 2.93 / 15	-	-	-

NOTES:
1. PROVIDE THE FOLLOWING FEATURES & OPTIONS FOR EACH UNIT:
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, INTEGRATED WITH THE BUILDING AUTOMATION SYSTEM.
• COORDINATE RIGHT-HAND/LEFT-HAND COIL CONNECTIONS IN THE FIELD.
• KEY LOCK ACCESS DOORS.
• FURNISH 2-WAY MODULATING CONTROL VALVE FOR EACH COIL, WITH PIPING PACKAGE AS PER DETAIL ON DRAWING M7.4. 5 PSI MAX AT CONTROL VALVE.
• WALL MOUNTED THERMOSTAT.
• HOT WATER COIL SHALL BE SIZED FOR 30% PROPYLENE GLYCOL SOLUTION.
• CHILLED WATER COIL SHALL BE SIZED FOR 30% PROPYLENE GLYCOL SOLUTION.
• FACTORY FURNISHED LOCAL DISCONNECT SWITCH.
• COIL AIR VENT.
• (2) SETS OF SPARE FILTERS FOR EACH UNIT.
• FINISH SHALL BE CUSTOM ENAMEL - SUBMIT COLOR CHART FOR APPROVAL.

FAN SCHEDULE

DESIGNATION	KX-1	RF-1	RF-2	EX-1
LOCATION	ADDITION ROOF	BOILER ROOM	ROOF	ATTIC
AREA SERVED	KITCHEN HOOD	AHU-1	AHU-2&3	ART ROOM 002
MANUFACTURER	ACCUREX	GREENHECK	GREENHECK	GREENHECK
MODEL	XUEF-16	SQ-140-VG	GB-200	SQ-7-M1-VG
WEIGHT (LBS)	259	91	136	48
FAN TYPE	UTILITY	INLINE	DOWNBLAST	INLINE
DRIVE TYPE	BELT	DIRECT	BELT	DIRECT
CFM	2,900	2,200	4,500	550
BHP / HP	2.17 / 3	0.75 / 1	1.14 / 1.5	0.25 / 0.5
RPM	1,870	1,554	962	3,227
SP (IN H_2O)	2.5	1	0.5	1.5
VOLTS/Ø/Hz	208/3/60	208/3/60	208/3/60	208/1/60
STARTER TYPE	VFD	VFD	VFD	VFD
INTERLOCK	MAU-1	AHU-1	AHU-2&3	-

NOTES:
1. ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY.
2. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
3. FURNISH RUBBER IN SHEAR OR SPRING VIBRATION ISOLATORS AS PER THE SPECIFICATION.
4. FURNISH MOTOR AND BELT GUARDS FOR ALL EXTERNAL MOTOR DRIVES.
5. KX-1 AND RF-2 SHALL BE MOUNTED ON ROOF CURBS. HEIGHT OF CURB IS TO BE COORDINATED WITH FINAL FINISHED ROOF SURFACE, INCLUDING DEVIATIONS DUE TO CRICKETS, ROOF DRAINS, ETC. CURB SHALL EXTEND 12" MINIMUM ABOVE FINISHED ROOF SURFACE. PROVIDE BLOCKING OR SIMILAR AS NECESSARY. MASON INDUSTRIES TYPE RSC OR EQUIVALENT.
6. MOTOR STARTER AND DISCONNECT SWITCH FOR EACH FAN SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR. EACH ROOFTOP FAN SHALL BE FURNISHED WITH WEATHERPROOF UNIT-MOUNTED LOCAL DISCONNECT SWITCH.
7. ALL MOTOR STARTERS, VFDS, DISCONNECTS, ETC SHALL HAVE A NEMA RATED ENCLOSURE SUITABLE TO THE DEVICE'S INSTALLATION LOCATION.
8. FURNISH THE FOLLOWING FACTORY OPTIONS FOR UTILITY SET FAN KX-1 : FLANGED INLET AND OUTLET, VIBRATION ISOLATORS, AND BELT GUARD. CONTRACTOR SHALL FIELD VERIFY ORIENTATION OF THE FAN OUTLET TO MATCH EXISTING.
9. FAN KX-1 SERVING "TYPE I" COMMERCIAL KITCHEN EXHAUST HOODS:
• SHALL BE UL 705 AND 762 LISTED & LABLED.
• SHALL MEET ALL THE REQUIREMENTS OF NFPA 96 FOR KITCHEN EXHAUST APPLICATION, INCLUDING HINGED ACCESS DOOR DRAIN, CONNECTION WITH STAINLESS STEEL GREASE CUP, WEATHER HOOD, MOTOR AND WIRING OUT OF AIRSTEAM, AND UPBLAST DISCHARGE.
• SHALL BE INTERLOCKED TO RUN WHEN THE KITCHEN EXHAUST HOOD IS ACTIVATED, IN CONJUNCTION WITH THE ASSOCIATED "MAU" KITCHEN MAKE-UP AIR UNIT.

PUMP SCHEDULE

DESIGNATION	HWP-1&2	HWP-3&4	CHWP-1&2	CHWP-3,4	CHWP-5
LOCATION	BOILER ROOM	BOILER ROOM	BOILER ROOM	ROOF	ROOF
SYSTEM SERVED	DUAL TEMP SECONDARY	BOILER PRIMARY	DUAL TEMP SECONDARY	HEATER/CHILLER PRIMARY	HEATER/CHILLER PRIMARY
MANUFACTURER	BELL & GOSSETT	BELL & GOSSETT	BELL & GOSSETT	BELL & GOSSETT	BELL & GOSSETT
MODEL	e-1510-2EB	E-80-3x3x9.5C	e-1510-2.5BB	e-90-2AB	e-80-2.5X2.5X7B
TYPE	END SUCTION	INLINE	END SUCTION	INLINE	INLINE
IMPELLER DIA. (IN.)	9.75	8.5	9.375	6	6.625
GPM	200	150	300	88	132
TOTAL DYNAMIC HEAD (FT H_2O)	60	25	70	30	30
RPM	1613	1098	1677	1678	1670
NPSH (FT. H_2O)	6.28	3.67	8.14	7.47	6.34
MOTOR BHP	4.86	1.34	7.28	1.02	1.78
MOTOR HP	7.5	2	10	1.5	2
VOLTAGE/Ø/Hz	208/3/60	208/3/60	208/3/60	208/3/60	208/3/60
STARTER TYPE	VFD	VFD	VFD	VFD	VFD

NOTES:
1. ALL PUMPS SHALL BE CAST IRON BODY, BRONZE FITTED, BRONZE IMPELLER. REFER TO SPECIFICATION FOR PUMP CONSTRUCTION.
2. REFER TO SPECIFICATIONS FOR VIBRATION ISOLATION REQUIREMENTS.
3. FLUID SHALL BE 30% PROPYLENE GLYCOL SOLUTION.
4. ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY.
5. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
6. MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
7. ALL MOTOR STARTERS, VFDS, DISCONNECTS, ETC SHALL HAVE A NEMA RATED ENCLOSURE SUITABLE TO THE DEVICE'S INSTALLATION LOCATION.
8. FOR PUMPS CHWP-3,4,5, PROVIDE A WEATHERPROOF INSULATED ENCLOSURE. PROVIDE TEFC MOTORS.

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SHEET TITLE
MECHANICAL SCHEDULES AND EQUIPMENT NOTES

SHEET No.
M602

DIFFUSER/REGISTER/GRILLE SCHEDULE

TYPE	LOCATION	EQUIPMENT NOTES
CEILING AND SIDEWALL RETURN GRILLE (RG-A)	ALL AREAS	SHALL BE TITUS MODEL 355FL, ALUMINUM CONSTRUCTION, WITH 1/2" SPACING, 35° FIXED DEFLECTION AIRFOIL BLADES, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR LAY-IN OR SURFACE MOUNTING AS REQUIRED. COORDINATE WITH ARCH PLANS.
HEAVY DUTY RETURN GRILLE (RG-B)	GYMNASIUM	SHALL BE TITUS MODEL 33RL, STEEL CONSTRUCTION, WITH 3/8" SPACING, 38° FIXED DEFLECTION BLADES, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR LAY-IN OR SURFACE MOUNTING AS REQUIRED. COORDINATE WITH ARCH PLANS.
EXHAUST/RETURN REGISTER (ER-A / RR-A)	ALL BATHROOMS JANITOR'S CLOSETS CORRIDOR RETURN	SHALL BE TITUS MODEL 355FL, ALUMINUM CONSTRUCTION, WITH 1/2" SPACING, 35° FIXED DEFLECTION AIRFOIL BLADES, OPPOSED BLADE VOLUME DAMPER IN NECK, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR LAY-IN OR SURFACE MOUNTING AS REQUIRED. COORDINATE WITH ARCH PLANS.
SQUARE CEILING DIFFUSERS (CD-A)	ALL AREAS	SHALL BE TITUS MODEL OMNI STEEL CONSTRUCTION, WITH ROUND NECK, OPPOSED BLADE VOLUME DAMPER IN NECK, MODULE SIZE, NECK SIZE, AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR LAY-IN OR SURFACE MOUNTING AS REQUIRED. COORDINATE WITH ARCH PLANS.
SQUARE CEILING DIFFUSERS WITH ROUND PLAQUE (CD-B)	CAFETERIA	SHALL BE TITUS MODEL OMNI-RS STEEL CONSTRUCTION, WITH ROUND NECK, OPPOSED BLADE VOLUME DAMPER IN NECK, MODULE SIZE, NECK SIZE, AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR LAY-IN OR SURFACE MOUNTING AS REQUIRED. COORDINATE WITH ARCH PLANS.
SIDEWALL SUPPLY REGISTERS (SR-A)	ALL AREAS	SHALL BE TITUS MODEL 300FL, ALUMINUM CONSTRUCTION, WITH 3/4" SPACING, DOUBLE DEFLECTION AIRFOIL BLADES, OPPOSED BLADE VOLUME DAMPER IN NECK, SIZE AND CFM AS NOTED ON PLANS. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL. FRAME SHALL BE SUITABLE FOR LAY-IN OR SURFACE MOUNTING AS REQUIRED. COORDINATE WITH ARCH PLANS.
DUCT-MOUNTED SIDEWALL (SR-B)	GYMNASIUM	SHALL BE TITUS MODEL S300FS, ALUMINIUM CONSTRUCTION, WITH 3/4" SPACING, DOUBLE DEFLECTION BLADES, SIZE AND CFM AS NOTED ON PLANS. PROVIDE MODEL ASD AIR EXTRACTOR FOR BALANCING. FINISH SHALL BE BAKED ON ENAMEL. SUBMIT COLOR CHART FOR APPROVAL.
PERFORATED SQUARE CEILING DIFFUSER (CDP-A)	KITCHEN	SHALL BE TITUS MODEL PAS-AA, ALUMINUM CONSTRUCTION, WITH ROUND NECK, OPPOSED BLADE VOLUME DAMPER IN NECK, MODULE SIZE, NECK SIZE, AND CFM AS NOTED ON PLANS. FINISH SHALL BE WHITE BAKED ON ENAMEL. FRAME SHALL BE SUITABLE FOR LAY-IN OR SURFACE MOUNTING AS REQUIRED. COORDINATE WITH ARCH PLANS.

SUPPLEMENTAL SPLIT-SYSTEM AC UNIT SCHEDULE

INDOOR UNIT DESIGNATION	AC-A	
MANUFACTURER	LG	
NOMINAL COOLING CAPACITY (TONS)	2	
COOLING CAPACITY (BTU/HR)	24,000	
HEATING CAPACITY (BTU/HR)	27,000	
SEER	20.05	
HSPF	10.2	
RS PIPE SIZE (IN)	5/8	
RL PIPE SIZE (IN)	3/8	
CONDENSATE DRAIN PIPE SIZE (IN)	1	
INDOOR EVAPORATOR UNIT:		
MODEL	ZRNU243SKSA	
WEIGHT (LBS)	28.7	
VOLTS/Ø/Hz	208/1/60	
MCA/MOCP	0.52/-	
OUTDOOR CONDENSING UNIT:	ACC-A	
LOCATION	WING D ROOF	
MODEL	ZRUN024GSS0	
WEIGHT (LBS)	148	
REFRIGERANT TYPE	R-32	
VOLTS/Ø/Hz	208/1/60	
MCA/MOCP	26.4/30	

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS FOR EACH UNIT:
• 0" LOW AMBIENT CONTROLS.
• 7-DAY PROGRAMMABLE SYSTEM CONTROLLER WITH ALARM OUTPUT.
2. ALL INDOOR UNITS SHALL BE PROVIDED WITH CONDENSATE PUMP ACCESSORY, PURCHASED SEPARATELY AND FIELD INSTALLED AS PER MANUFACTURER'S INSTRUCTIONS. PUMP SHALL BE RATED AT 8 GPH MAX FLOW, 8' MAX SUCTION HEAD, 33' MAX DISCHARGE HEAD. PUMP SHALL BE COMPATIBLE WITH AC UNIT VOLTAGE. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING FROM THE INDOOR AC UNIT TO THE CONDENSATE PUMP. THE MECHANICAL CONTRACTOR SHALL PROVIDE CONTROL WIRING. PROVIDE THE FOLLOWING:
• WALL-MOUNTED PUMPING UNIT - TO BE FIELD INSTALLED ABOVE THE CEILING NEAR THE AC UNIT.
• REMOTE DETECTION UNIT - TO BE FIELD INSTALLED IN THE INDOOR AC UNIT CASSETTE.
• 1/4" SUCTION TUBING - TO BE ROUTED FROM REMOTE DETECTION UNIT INSIDE AC UNIT CASSETTE TO WALL-MOUNTED PUMP.
• 1/4" PUMP DISCHARGE TUBING - TO BE ROUTED FROM THE WALL-MOUNTED PUMP TO DISCHARGE LOCATION AS INDICATED ON PLAN.
• CONNECTOR AND CONNECTOR PROTECTOR.
• DETECTOR INSTALLATION KIT.
• ALARM CONTACT ARRANGED TO SHUT DOWN AC UNIT UPON PUMP FAILURE.
3. FIELD SUPPLIED LOCAL DISCONNECT SWITCH AT EACH INDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
4. FIELD SUPPLIED WEATHERPROOF LOCAL DISCONNECT SWITCH AT EACH OUTDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
5. SINGLE POINT EXTERNAL POWER CONNECTION FOR EACH INDOOR/OUTDOOR SET OF UNITS SHALL BE AT THE OUTDOOR UNIT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE POWER WIRING FROM THE OUTDOOR UNIT TO THE INDOOR UNIT.
6. THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL WIRING BETWEEN THE OUTDOOR UNIT AND INDOOR UNIT.

KITCHEN MAKE-UP AIR UNIT SCHEDULE (HW HEAT AND DX COOLING)

DESIGNATION	MAU-1	
LOCATION	KITCHEN	
AREA SERVED	KITCHEN	
MANUFACTURER	ACCUREX	
MODEL	XMSX-P112-H12-MF	
WEIGHT OF UNIT (LBS)	1,154	
INTERLOCKED	KX-1	
DESIGN DATA:		
SUPPLY AIR (CFM)	2,320	
OUTDOOR AIR (CFM)	2,320	
RETURN AIR (CFM)	0	
SUMMER OA TEMP (°F) DB/WB	92/74	
WINTER OA TEMP (°F)	10	
FILTERS:		
MAIN FILTER (IN UNIT)	MERV 8	
No./SIZE	(4) 16x20x2	
HOT WATER COIL		
E.A.T./L.A.T. (°F)	10 / 69.8	
CAPACITY (MBH)	150.7	
SUPPLY FAN:		
DESIGN AIRFLOW (CFM)	2,320	
BHP/HP	1.3 / 2	
RPM	1,725	
ESP/TSP (IN H_2O)	1.5 / 1.97	
STARTER	VFD	
ELECTRICAL DATA:		
VOLTS/Ø/Hz	208/3/60	
MCP / MOCP	9.8 / 15	

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS:
• 100% OUTSIDE AIR UNIT.
• HOT WATER HEATING COIL - UTILIZING 30% PROPYLENE GLYCOL
• UNIT SHALL BE HUNG FROM BUILDING STRUCTURE WITH SPRING TYPE VIBRATION ISOLATORS.
• EXTRA DRIVE BELT AND FILTER SET.
2. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS:
• SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT, FACTORY INSTALLED UNIT-MOUNTED DISCONNECT SWITCH, & FACTORY INSTALLED MOTOR STARTERS.
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY, ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
• ALL MOTOR STARTERS, VFDS, DISCONNECTS, ETC SHALL HAVE A NEMA RATED ENCLOSURE SUITABLE TO THE DEVICE'S INSTALLATION LOCATION.
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.

HOT WATER BOILER SCHEDULE

DESIGNATION	B-1&2
LOCATION	BOILER ROOM
MANUFACTURER	AERCO
MODEL	BMK-2000
INPUT / OUTPUT (MBH)	2000 / 1740-1920
THERMAL EFFICIENCY (%)	94.6
MIN./MAX. FLOW (GPM)	25 / 350
WATER CONTENT (GAL)	40
EWT/LWT (°F)	160 / 180
GAS PRESSURE	4"-14"
ELECTRICAL DATA:	
VOLTS/Ø/Hz	120/1/60
FLA (AMPS)	16

NOTES:
1. PROVIDE DISCONNECT SWITCH FOR EACH BURNER.
2. PROVIDE BOILERS WITH PH NEUTRALIZER, NATURAL GAS TRAIN, PRESSURE RELIEF VALVE, INTEGRAL LOW-WATER CUTOFF CONTROLS, AND MANUAL RESET HIGH-LIMIT TEMPERATURE CONTROLS.
3. CONNECTIONS: 8"Ø AIR INLET, 8"Ø EXHAUST OUTLET, 4" WATER INLET, 4" WATER OUTLET, 2" NATURAL GAS INLET, 1-1/2" DRAIN, 1/2" CONDENSATE DRAIN.
4. BOILER CONTROLS SHALL BE INTEGRATED WITH THE BMS.

AIR HANDLING UNIT SCHEDULE

DESIGNATION	AHU-1	AHU-2&3
LOCATION	BOILER ROOM	GYM
AREA SERVED	CAFETERIA	GYM
MANUFACTURER	CARRIER	CARRIER
MODEL	39MN-08W	39MN-07T
WEIGHT OF UNIT (LBS)	3,030	1,919
INTERLOCKED	RF-1	RF-2
DESIGN DATA:		
SUPPLY AIR (CFM)	4000	3000
OUTDOOR AIR (MIN) (CFM)	600	700
OUTDOOR AIR (MAX) (CFM)	2900	1500
RETURN AIR (CFM)	1100	2300
SPILL AIR (CFM)	2100	400
SUMMER OA TEMP (°F) DB/WB	92/74	92/74
SUMMER RA TEMP (°F) DB/WB	74/62	74/62
WINTER OA TEMP (°F)	10	10
WINTER RA TEMP (°F)	65	65
FILTERS:		
MAIN FILTER	MERV 13	MERV 13
QUANTITY/SIZE	(3) 16x25	(4) 16x20
HOT WATER COIL:		
FACE AREA (SQ. FT.)	7.64	7.67
No. OF ROWS/FINS PER INCH	2/10	2/10
E.W.T./L.W.T. (°F)	180/160	180/160
E.A.T./L.A.T. (°F)	23.5 / 94.1	58.4 / 98.5
AIR P.D. (IN H_2O)	0.2	0.17
CAPACITY (MBH)	284	130
GPM	29.7	13.7
W.P.D. (FT H_2O)	8.9	0.5
CHILLED WATER COIL:		
FACE AREA (SQ. FT.)	7.64	7.67
No. OF ROWS/FINS PER INCH	8 / 14	6 / 12
E.W.T./L.W.T. (°F)	45 / 55	45 / 55
E.A.T. (°F) DB/WB	88.2 / 71	79.2 / 65.7
L.A.T. (°F) DB/WB	55.6 / 55.6	56.9 / 57.3
AIR P.D. (IN H_2O)	0.93	0.57
CAPACITY (MBH) SENS./TOTAL	115 / 161	69.8 / 79.1
GPM	34	16.7
W.P.D. (FT H_2O)	6.8	2.1
SUPPLY FAN:		
DESIGN AIRFLOW (CFM)	4,000	3,000
BHP/HP	3.5 / 5	2 / 3
RPM	1800	1800
ESP/TSP (IN H_2O)	1.75 / 3.8	1.5 / 2.46
VOLTS/Ø/Hz	208/3/60	208/3/60
STARTER TYPE	VFD	VFD
ELECTRICAL DATA - SINGLE POINT POWER CONNECTION:		
VOLTS/Ø/Hz	208/3/60	208/3/60
FLA/MCA/MOCP (AMPS)	15.4/19.3/30	9.5/11.9/20

NOTES:
1. PROVIDE THE FOLLOWING:
• HOT WATER COIL SHALL BE SIZED FOR 30% PROPYLENE GLYCOL SOLUTION.
• CHILLED WATER COIL SHALL BE SIZED FOR 30% PROPYLENE GLYCOL SOLUTION.
• UNIT SHALL BE MOUNTED ON 3-1/2" HIGH CONCRETE PAD WITH SPRING TYPE VIBRATION ISOLATORS.
• AHU-1,2&3 SHALL BE SHIPPED KNOCKED DOWN IN SECTIONS, AND SHALL BE ASSEMBLED IN THE FIELD BY THE CONTRACTOR. PROVIDE ALL NECESSARY LABOR, RIGGING, AND FIELD WIRING.
4. PROVIDE THE FOLLOWING OPTIONAL EQUIPMENT FOR EACH UNIT:
• 100% MODULATING ECONOMIZER WITH DIFFERENTIAL ENTHALPY CONTROL.
• FURNISH A FREEZE STAT ARRANGED TO OVERRIDE THE HOT WATER CONTROL VALVE AND SHUT DOWN UNIT, AS PER THE SEQUENCE OF OPERATIONS.
• FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.
• COORDINATE LEFT/RIGHT COIL CONNECTION AND FAN DRIVE IN FIELD.
• FURNISH 2-WAY MODULATING CONTROL VALVE FOR EACH COIL, WITH PIPING PACKAGE AS PER DETAIL ON DRAWING M7.1. 5 PSI MAX AT CONTROL VALVE.
• ALL MODULATING DAMPERS SHALL BE OPPOSED-BLADE TYPE. OPEN/CLOSE DAMPERS MAY BE PARALLEL-BLADE TYPE.
• AIRFLOW MONITORING STATION
• DEMAND CONTROLLED VENTILATION CAPABILITY WITH SPACE-MOUNTED CO_2 SENSORS. UNITS SHALL MODULATE BETWEEN MIN AND MAX CFMS INDICATED IN SCHEDULE IN RESPONSE TO CO_2 CONCENTRATION AS PER THE SEQUENCE OF OPERATIONS.
5. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR EACH UNIT:
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
• ALL MOTOR STARTERS, VFDS, DISCONNECTS, ETC SHALL HAVE A NEMA RATED ENCLOSURE SUITABLE TO THE DEVICE'S INSTALLATION LOCATION.
• ALL MOTOR STARTERS AND DISCONNECT SWITCHES SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.

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PROFESSIONAL SEAL

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66-16-01-03-0-004-014

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CONSTRUCTION DOCUMENTS
ISSUE FOR BID
REVISION

PROJECT No.
NKGD0292.00

SHEET TITLE
MECHANICAL SCHEDULES AND EQUIPMENT NOTES

SHEET No.
M603

SPLIT SYSTEM DEDICATED OUTSIDE AIR UNITS

INDOOR UNIT DESIGNATION	DOAS-1	DOAS-2	DOAS-3	DOAS-4
MANUFACTURER	LG	LG	LG	LG
MODEL	ARND153DCR4	ARND153DCR4	ARND153DCR4	ARND153DCR4
COOLING CAPACITY (TOT/SENS)(BTU)	94.5/55	106/61.2	107.7/62.2	74.3/43.8
HEATING CAPACITY (BTU)	89.1	99.1	100.6	71
REHEAT CAPACITY(MBH)	20.7	23.2	23.5	16.6
LIQUID LINE (INCHES)	1/2	1/2	1/2	1/2
HOT GAS LINE (INCHES)	3/4	3/4	3/4	3/4
CONDENSATE LINE (INCHES)	1	1	1	1
CFM	1,400	1,475	1,500	1,050
VOLTS/Ø/Hz	208/1/60	208/1/60	208/1/60	208/1/60
MCA / MOP (AMPS)	7.5 / 15	7.5 / 15	7.5 / 15	7.5 / 15
ASSOCIATED CONDENSING UNIT	ACC-1	ACC-2	ACC-3	ACC-4

NOTES:
1. FIELD SUPPLIED LOCAL DISCONNECT SWITCH AT EACH INDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. UNIT SHALL INCLUDE INTERNAL CONDENSATE PUMP POWERED THROUGH THE INDOOR UNIT.
3. REMOTE DETECTION UNIT - TO BE FIELD INSTALLED IN THE INDOOR AC UNIT CASSETTE.
4. CONNECTOR AND CONNECTOR PROTECTOR.
5. DETECTOR INSTALLATION KIT.
6. ALARM CONTACT ARRANGED TO SHUT DOWN AC UNIT UPON CONDENSATE PUMP FAILURE.
8. EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH UL 1995 AND INSTALLED IN ACCORDANCE WITH ITS LISTING AND THE MANUFACTURER'S INSTRUCTIONS.

OUTDOOR CONDENSING UNIT SCHEDULE

OUTDOOR UNIT DESIGNATION	ACC-1	ACC-2	ACC-3	ACC-4
MANUFACTURER	LG	LG	LG	LG
SYSTEM SERVED	DOAS-1	DOAS-2	DOAS-3	DOAS-4
MODEL	ARUM121BTE5	ARUM121BTE5	ARUM121BTE5	ARUM121BTE5
NOMINAL COOLING / HEATING CAPACITY (MBH)	119.7 / 135	119.7 / 135	119.7 / 135	119.7 / 135
LIQUID LINE (INCHES)	1/2	1/2	1/2	1/2
HOT GAS LINE (INCHES)	3/4	3/4	3/4	3/4
VOLTS/Ø/Hz	208/3/60	208/3/60	208/3/60	208/3/60
MCA/MOCP	30.9 / 40	30.9 / 40	30.9 / 40	30.9 / 40
EER (NON-DUCTED/DUCTED)	10.1/10.3	10.1/10.3	10.1/10.3	10.1/10.3
IEER (NON-DUCTED/DUCTED)	25.6/19.1	25.6/19.1	25.6/19.1	25.6/19.1
COP (47°F) (NON-DUCTED/DUCTED)	3.97/3.46	3.97/3.46	3.97/3.46	3.97/3.46
WEIGHT (LBS.)	507	507	507	507

NOTES:
1. PROVIDE THE FOLLOWING OPTIONS FOR EACH UNIT:
   - 0° LOW AMBIENT CONTROLS.
   - 7-DAY PROGRAMMABLE WIRED SYSTEM CONTROLLER WITH ALARM OUTPUT.
2. FIELD SUPPLIED WEATHERPROOF LOCAL DISCONNECT SWITCH AT EACH OUTDOOR UNIT SHALL BE FURNISHED BY THE MECHANICAL CONTRACTOR & INSTALLED BY THE ELECTRICAL CONTRACTOR.
3. THE AUTOMATIC TEMPERATURE CONTROLS CONTRACTOR SHALL PROVIDE CONTROL WIRING BETWEEN THE OUTDOOR UNIT AND INDOOR UNIT.
4. PROVIDE CENTRAL SYSTEM CONTROLLER, LG MODEL PACS5A000
5. EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH UL 1995 AND INSTALLED IN ACCORDANCE WITH ITS LISTING AND THE MANUFACTURER'S INSTRUCTIONS.

ENERGY RECOVERY AIR HANDLING UNIT SCHEDULE

DESIGNATION	ERV-1	ERV-2	ERV-3	ERV-4
LOCATION	WING B ATTIC	WING B ATTIC	WING B ATTIC	WING B ATTIC
MANUFACTURER	SYSTEMAIR	SYSTEMAIR	SYSTEMAIR	SYSTEMAIR
MODEL	TR30-S-R	SR50-S-R	SR50-S-R	TR25-S-R
WEIGHT (LBS)	668	807	807	547
INTERLOCKED	DOAS-1	DOAS-2	DOAS-3	DOAS-4
DESIGN DATA:				
SUPPLY AIR (CFM)	1,400	1,475	1,500	1,050
OUTDOOR AIR (CFM)	1,400	1,475	1,500	1,050
RETURN AIR (CFM)	1,450	1,300	1,350	950
EXHAUST (CFM)	1,450	1,300	1,350	950
SUMMER OA TEMP (°F) DB/WB	92/74	92/74	92/74	92/74
SUMMER RA TEMP (°F) DB/WB	75/63	75/63	75/63	75/63
WINTER OA TEMP (°F)	13	13	13	13
WINTER RA TEMP (°F)	72	72	72	72
EXHAUST FAN MODULE:				
DESIGN AIRFLOW (CFM)	1,450	1,300	1,350	950
BHP/HP	.7/1	.52/2	.64/2	.55/1
RPM	2592	1579	1704	2904
ESP/TSP (IN H_2O)	1/2.27	.75/1.71	1/2	1/2.59
ENERGY RECOVERY MODULE - ENTHALPY WHEEL TYPE:				
DESIGN OUTDOOR AIR (CFM)	1,400	1,475	1,500	1,050
DESIGN EXHAUST AIR (CFM)	1,450	1,300	1,350	950
SUMMER RECOVERY (TOT) (MBH)	12.2	12.9	13.6	9.9
WINTER RECOVERY (MBH)	88.4	100.3	104	68.6
TEMPERATEURE EFFICIENCY (%)	79.1	80.6	81.7	78.8
FILTER:				
MAIN FILTER	MERV-13	MERV-13	MERV-13	MERV-13
SUPPLY FAN MODULE:				
DESIGN AIRFLOW (CFM)	1,400	1,475	1,500	1,050
BHP/HP	.85/1	.68/2	.8/2	.67/1
RPM	2772	1737	1860	3076
ESP/TSP (IN H_2O)	1/2.49	.75/2.14	1/2.43	1/2.83
SINGLE POINT POWER CONNECTION:				
VOLTS/Ø/Hz	208/1/60	208/1/60	208/1/60	208/1/60
MCA/MOCP (AMPS)	11.5/20	18.4/33	18.4/33	11.5/20

NOTES:
1. PROVIDE THE FOLLOWING FOR EACH UNIT:
• UNIT SHALL BE MOUNTED ON 3-1/2" HIGH CONCRETE PAD WITH VIBRATION ISOLATORS.
• IF REQUIRED FOR INSTALLATION, UNIT SHALL BE SHIPPED KNOCKED DOWN IN SECTIONS, AND SHALL BE ASSEMBLED IN THE FIELD BY THE CONTRACTOR. PROVIDE ALL NECESSARY LABOR, RIGGING, AND FIELD WIRING. ALL SECTIONS OF THIS UNIT MUST BE ABLE TO FIT THROUGH NEW ROOF HATCH TO ATTIC (6'x4' OPENING SIZE).
• FURNISH EXTRA DRIVE BELT AND EXTRA FILTER SET FOR EACH UNIT.
2. PROVIDE THE FOLLOWING MOTOR CONTROL OPTIONS FOR EACH UNIT:
• UNITARY CONTROLLER BY AUTOMATIC TEMPERATURE CONTROLS MANUFACTURER, COMPATIBLE WITH THE BUILDING AUTOMATION SYSTEM.
• ALL MOTORS 1 HP OR GREATER SHALL BE PREMIUM EFFICIENCY. ALL MOTORS FURNISHED WITH VARIABLE FREQUENCY DRIVES SHALL BE INVERTER DUTY RATED & APPROVED FOR VARIABLE SPEED AND TORQUE APPLICATIONS.
• ALL MOTOR STARTERS, VFDS, DISCONNECTS, ETC SHALL HAVE A NEMA RATED ENCLOSURE SUITABLE TO THE DEVICE'S INSTALLATION LOCATION.
• SINGLE POINT EXTERNAL POWER CONNECTION AT UNIT. PROVIDE FACTORY INSTALLED, UNIT-MOUNTED, NON-FUSED LOCAL DISCONNECT SWITCH. MOTOR STARTERS AND VFD'S SHALL BE FACTORY INSTALLED.

Ventilation Index

Served By	Room No.	Floor No.	Room Name	Area (sq.ft.)	Occupancy Type		Code				Zone Distribution Effectivness	Design SA		EA	Design OA		Code OA	
					Category	Type	Pers./1000 sq.ft.	OA CFM / Pers.	OA CFM / sq.ft.	No. of Occ.		CFM	CFM / sq.ft.	CFM	% w/o Div.	CFM	CFM	CFM / sq.ft.
DOAS-1	109	1	MULTI-PURPOSE CLASS	1135	Education	Classroom Ages (9+)	35	10	0.12	40	1.0	550	0.5		100%	550	536	0.47
DOAS-1	108	1	OT	426	Education	Classroom Ages (9+)	35	10	0.12	15	1.0	225	0.5		100%	225	201	0.47
DOAS-1	100D	1	Corridor	259	Public Spaces	Corridor	0	0	0.06	0	1.0	25	0.1		100%	25	16	0.06
DOAS-1	206	2	8:1:2	577	Education	Classroom Ages (9+)	35	10	0.12	21	1.0	300	0.5		100%	300	279	0.48
DOAS-1	207	2	8:1:2	605	Education	Classroom (Ages 5-8)	25	10	0.12	16	1.0	250	0.4		100%	250	233	0.38
DOAS-1	200B	2	Corridor	799	Public Spaces	Corridor	0	0	0.06	0	1.0	50	0.1		100%	50	48	0.06
DOAS-2	001	0	Corridor	849	Public Spaces	Corridor	0	0	0.06	0	1.0	75.0	0.1		100%	75	51	0.06
DOAS-3	003	0	Art	763	Education	Art Classroom	20	10	0.18	16	1.0	300.0	0.4	550.0	100%	300	297	0.39
DOAS-2	004	0	PT	215	Office	Office spaces	5	5	0.06	2	1.0	25.0	0.1		100%	25	23	0.11
DOAS-2	006A	0	Kiln	126	Storage	Storage Room	0	0	0.12	0	1.0	25.0	0.2		100%	25	15	0.12
DOAS-2	008	0	Staff Break	344	Office	Break Room	50	5	0.06	18	1.0	125.0	0.4		100%	125	111	0.32
DOAS-2	009	0	Staff (Copy) Room	237	Workrooms	Copy, printing rooms	4	5	0.06	1	1.0	25.0	0.1	125.0	100%	25	19	0.08
DOAS-2	010	0	Nurse	376	Office	Office spaces	5	5	0.06	2	1.0	50.0	0.1		100%	50	33	0.09
DOAS-3	012	0	Music	831	Education	Classroom Ages (9+)	35	10	0.12	30	1.0	400.0	0.5		100%	400	400	0.48
DOAS-3	003B	0	Cust	239	Office	Office spaces	5	5	0.06	2	1.0	25.0	0.1		100%	25	24	0.10
DOAS-3	000	0	Vestibule	246	Public Spaces	Corridor	0	0	0.06	0	1.0	25.0	0.1		100%	25	15	0.06
DOAS-3	100B	1	vestibule	204	Public Spaces	Corridor	0	0	0.06	0	1.0	25.0	0.1		100%	25	12	0.06
DOAS-2	100C	1	corridor	508	Public Spaces	Corridor	0	0	0.06	0	1.0	50.0	0.1		100%	50	30	0.06
DOAS-2	100F	1	vestibule	54	Public Spaces	Corridor	0	0	0.06	0	1.0	25.0	0.5		100%	25	3	0.06
DOAS-3	101	1	classroom	678	Education	Classroom Ages (9+)	35	10	0.12	24	1.0	325.0	0.5		100%	325	321	0.47
DOAS-3	111I	1	conference	99	office	conference room	50	5	0.06	5	1.0	50.0	0.5		100%	35	31	0.31
DOAS-3	107	1	secretary	125	Office	Office spaces	5	5	0.06	1	1.0	25.0	0.2		100%	25	13	0.10
DOAS-3	107A	1	principal	111	Office	Office spaces	5	5	0.06	1	1.0	25.0	0.2		100%	15	12	0.11
DOAS-3	105	1	classroom	676	Education	Classroom Ages (9+)	35	10	0.12	24	1.0	325.0	0.5		100%	325	321	0.48
DOAS-3	105C	1	FLES	188	Office	Office spaces	5	5	0.06	1	1.0	25.0	0.1		100%	25	16	0.09
DOAS-3	106	1	security	67	Office	Office spaces	5	5	0.06	1	1.0	25.0	0.4		100%	25	9	0.13
DOAS-2	102	1	conference	277	office	conference room	50	5	0.06	14	1.0	100.0	0.4		100%	100	87	0.31
DOAS-2	103	1	library	1,698	public spaces	libraries	10	5	0.12	17	1.0	300.0	0.2		100%	300	289	0.17
DOAS-2	100K	1	vestibule	55	Public Spaces	Corridor	0	0	0.06	0	1.0	25.0	0.5		100%	25	3	0.06
DOAS-4	201	2	2nd grade	692	Education	Classroom Ages (9+)	35	10	0.12	25	1.0	350.0	0.5		100%	350	333	0.48
DOAS-4	200	2	2nd grade	720	Education	Classroom Ages (9+)	35	10	0.12	26	1.0	350.0	0.5		100%	350	346	0.48
DOAS-4	205	2	3rd grade	692	Education	Classroom Ages (9+)	35	10	0.12	25	1.0	350.0	0.5		100%	350	333	0.48
DOAS-2	200A	2	corridor	538	Public Spaces	Corridor	0	0	0.06	0	1.0	50.0	0.1		100%	50	32	0.06
DOAS-2	202A	2	vestibule	71	Public Spaces	Corridor	0	0	0.06	0	1.0	25.0	0.4		100%	25	4	0.06
DOAS-2	202D	2	RESOURCE	253	Office	Office spaces	5	5	0.06	2	1.0	50.0	0.2		100%	50	25	0.10
DOAS-2	202B	2	intervention	194	Office	Office spaces	5	5	0.06	1	1.0	25.0	0.1		100%	25	17	0.09
DOAS-2	202C	2	office	98	Office	Office spaces	5	5	0.06	1	1.0	25.0	0.3		100%	25	11	0.11
DOAS-2	203	2	3rd grade	714	Education	Classroom Ages (9+)	35	10	0.12	25	1.0	350.0	0.5		100%	350	336	0.47
DOAS-2	204C	2	office	110	Office	Office spaces	5	5	0.06	1	1.0	25.0	0.2		100%	25	12	0.11
DOAS-2	204B	2	psych	195	Office	Office spaces	5	5	0.06	1	1.0	25.0	0.1		100%	25	17	0.09
DOAS-2	204D	2	speech	289	Office	Office spaces	5	5	0.06	2	1.0	50.0	0.2		100%	50	27	0.09
DOAS-2	204A	2	vestibule	72	Public Spaces	Corridor	0	0	0.06	0	1.0	25.0	0.3		100%	25	4	0.06
DOAS-5	014	0	Corridor	504	Public Spaces	Corridor	0	0	0.06	0	1.0	50	0.1		100%	50	30	0.06
DOAS-5	013	0	Serving Queue	200	Storage	Storage Room	0	0	0.12	0	1.0	25	0.1		100%	25	24	0.12
DOAS-5	015	0	Kitchen	735	Food Service	Kitchens cooking	20	8	0.12	15	1.0	225	0.3		100%	225	201	0.27
DOAS-5	018	0	Boiler	415	Storage	Storage Room	0	0	0.12	0	1.0	50	0.1		100%	50	50	0.12
DOAS-5	020	0	Maintenance	1,041	Storage	Storage Room	0	0	0.12	0	1.0	125	0.1		100%	125	125	0.12
DOAS-5	100	1	Corridor	1,100	Public Spaces	Corridor	0	0	0.06	0	1.0	75	0.1		100%	75	66	0.06
DOAS-5	113	1	Kindergarten 1	916	Education	Classroom (Ages 5-8)	25	10	0.12	23	1.0	350	0.4		100%	350	340	0.37
DOAS-5	112	1	First Grade 1	839	Education	Classroom (Ages 5-8)	25	10	0.12	21	1.0	325	0.4		100%	325	311	0.37
DOAS-5	115	1	Kindergarten 2	918	Education	Classroom (Ages 5-8)	25	10	0.12	23	1.0	350	0.4		100%	350	340	0.37
DOAS-5	114	1	First Grade 2	843	Education	Classroom (Ages 5-8)	25	10	0.12	22	1.0	325	0.4		100%	325	321	0.38
DOAS-5	200D	2	Corridor	1,100	Public Spaces	Corridor	0	0	0.06	0	1.0	75	0.1		100%	75	66	0.06
DOAS-5	211	2	Fourth Grade 1	835	Education	Classroom Ages (9+)	35	10	0.12	30	1.0	425	0.5		100%	425	400	0.48
DOAS-5	213	2	Fourth Grade 1	839	Education	Classroom Ages (9+)	35	10	0.12	30	1.0	425	0.5		100%	425	401	0.48
DOAS-5	212	2	Fifth Grade 2	903	Education	Classroom Ages (9+)	35	10	0.12	32	1.0	450	0.5		100%	450	428	0.47
DOAS-5	210	2	Fifth Grade 2	898	Education	Classroom Ages (9+)	35	10	0.12	32	1.0	450	0.5		100%	450	428	0.48
AHU-1	018	0	Cafeteria	2,480	Food and Beverage Service	Cafeteria	100	8	0.18	248	0.8	4,000.0	1.6		73%	2,900	2,883	1.16
AHU-2&3	110	1	Gym / Auditorium	2,555	Sports and Amusement	Gym (play area)	7	20	0.18	30	0.8	6,000.0	2.3		23%	1,400	1,325	0.52
AHU-2&3	110	1	Gym / Auditorium	2,555	Education	Auditorium	150	5	0.06	384	0.8	6,000.0	2.3		50%	3,000	2,592	1.01
AHU-2&3	110	1	Stage	371	Theater	Stage	70	10	0.06	26	0.8	^	^			^	353	0.95

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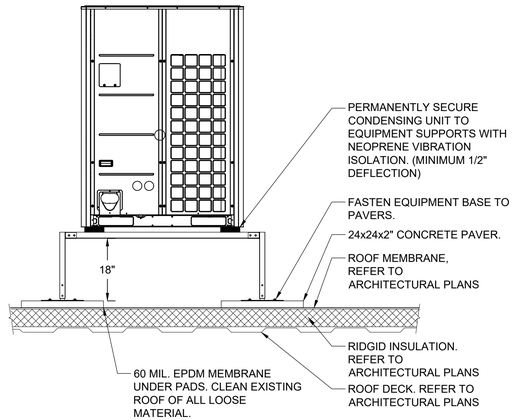
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66-16-01-03-0-004-014

DATE: 11/12/2026
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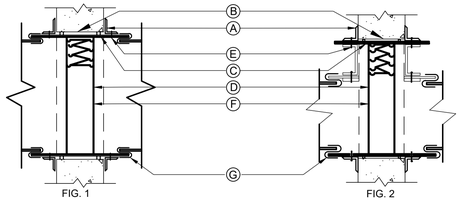
SHEET TITLE
MECHANICAL SCHEDULES AND EQUIPMENT NOTES

SHEET No.
M604



NOTES:
1.) EQUIPMENT SUPPORTS SHALL BE 18" HIGH QUICK-SLING SUPER STAND, MADE WITH 7-GAUGE STEEL AND 11-GAUGE STEEL TUBING.
2.) EACH PIECE OF EQUIPMENT SHALL BE MOUNTED ON CONTINUOUS SUPPORTS. EQUIPMENT SUPPORTS SHALL BE AT LEAST 6" LONGER THAN THE PIECE OF EQUIPMENT TO BE SUPPORTED.
3.) ALL BRACKETS, HANGERS, AND FASTENERS SHALL BE GALVANIZED STEEL.
4.) CEMENT EQUIPMENT SUPPORT TO ROOF - USE ONLY MATERIALS COMPATIBLE WITH THE ROOFING SYSTEM.

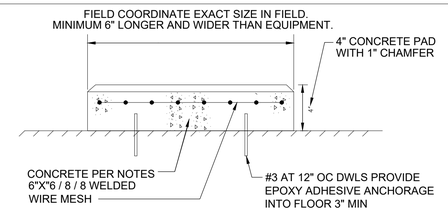
10 SUPPORT DETAIL FOR CONDENSING UNITS LOCATED ON ROOF
SCALE: NONE



NOTES:
A. RETAINING ANGLES SHALL BE A MINIMUM 1-1/2"x1-1/2"x16 GAUGE AND MUST OVERLAP THE STRUCTURAL OPENING BY A MINIMUM OF 1".
B. CLEARANCE BETWEEN SLEEVE AND OPENING SHALL BE 1/8" PER LINEAR FOOT, AS PER SMACNA FIG. 2-1.
C. STEEL SLEEVE SHALL BE AS PER SMACNA TABLE 2-2.
D. U.L. APPROVED FIRE DAMPER.
E. SECURE RETAINING ANGLES TO SLEEVE ONLY AT 8" CENTERS AS PER SMACNA FIG. 2-1.
F. SECURE DAMPER TO SLEEVE AT 8" CENTERS AS PER SMACNA FIG. 2-1.
G. CONNECT DUCT TO SLEEVE WITH BREAK-AWAY CONNECTION AS PER SMACNA FIG. 2-2.

1. FIRE DAMPERS TO BE CONSTRUCTED AND INSTALLED ACCORDING TO NFPA 90A, UL LABELS AND THE LATEST ISSUE OF S.M.A.C.N.A. CHAPTER 2.
2. CURTAIN TYPE FIRE DAMPERS SHOWN, MULTI-BLADE PIVOTED FIRE DAMPERS MEETING THE ABOVE STANDARD WILL BE ACCEPTABLE.
3. PROVIDE ACCESS DOORS. INSTALL (1) AD FOR EACH FIRE DAMPER AS PER SMACNA FIG. 6-1.
4. FOR DUCT 12" OR LESS IN DEPTH, FIRE DAMPER SHALL BE OUT OF THE AIR STREAM. REFER TO FIGURE 2.

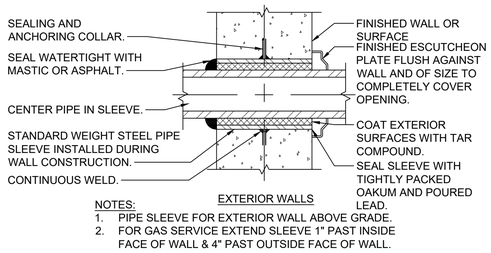
7 SHUTTER TYPE FIRE DAMPER AND SLEEVE DETAIL
SCALE: NONE



NOTES
1.) EQUIPMENT PAD SHALL EXTEND 6" ALL AROUND OUTSIDE DIMENSION OF EQUIPMENT BASE.

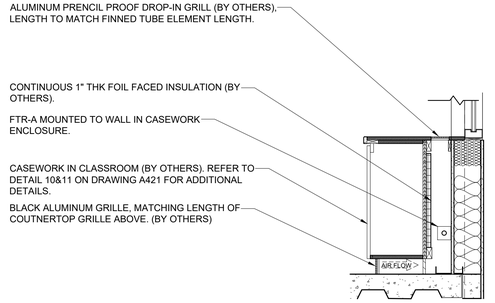
2.) CONCRETE REQUIREMENTS: COMPRESSIVE STRENGTH SHALL BE MINIMUM OF 4000 PSI, NORMAL WEIGHT, SLUMP BETWEEN 2 AND 4 INCHES AND PROPORTION MIX WITH A MIN. CEMENT CONTENT OF 611 POUNDS PER CUBIC YARD FOR 4000 PSI CONCRETE.

5 INDOOR HOUSEKEEPING PAD DETAIL
SCALE: NONE

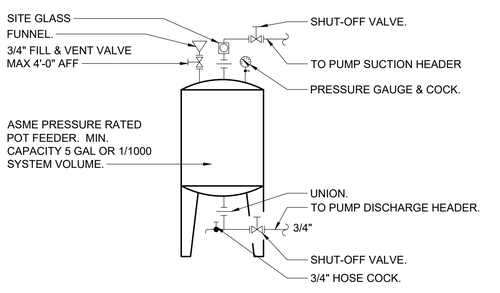


NOTES:
1. PIPE SLEEVE FOR EXTERIOR WALL ABOVE GRADE.
2. FOR GAS SERVICE EXTEND SLEEVE 1" PAST INSIDE FACE OF WALL & 4" PAST OUTSIDE FACE OF WALL.

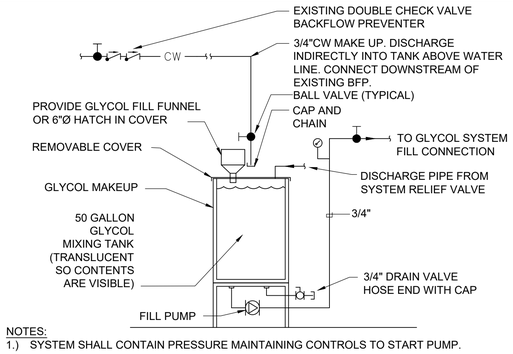
4 PIPE WALL SLEEVE DETAILS FOR EXTERIOR WALLS
SCALE: NONE



2 FINNED TUBE IN CASEWORK DETAIL
SCALE: NONE

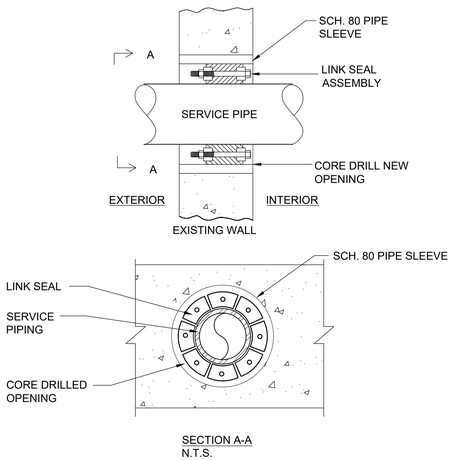


9 CHEMICAL POT FEEDER PIPING SCHEMATIC
SCALE: NONE



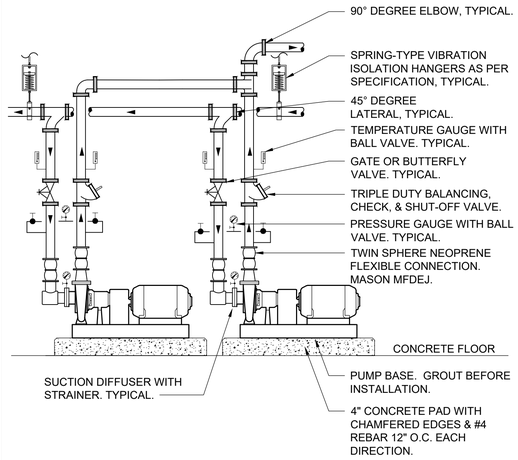
NOTES:
1.) SYSTEM SHALL CONTAIN PRESSURE MAINTAINING CONTROLS TO START PUMP.

8 CHILLED WATER GLYCOL FILL SYSTEM
SCALE: NONE



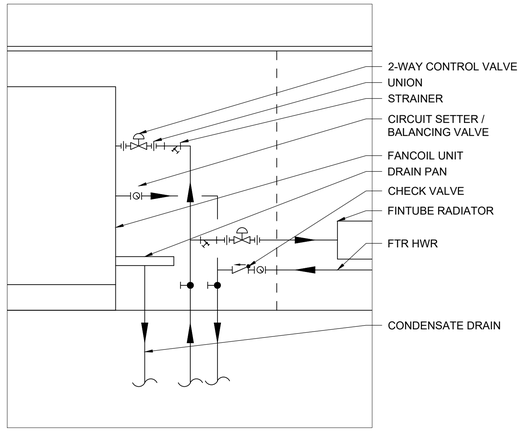
NOTES:
1.) SEAL ASSEMBLY BASED ON THUNDERLINE MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, COMPOSITE PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & ORGANIC COATED NUTS AND BOLTS RATED FOR AN OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
2.) USE LINK SEAL AT ALL LOCATIONS WHERE PIPES PENETRATE EXTERIOR WALLS, ABOVE GRADE OR BELOW GRADE.

6 PIPE LINK SEAL DETAIL FOR EXTERIOR WALLS
SCALE: NONE



NOTES:
1.) VERTICAL RISERS FROM PUMPS SHALL CONNECT TO HORIZONTAL MAINS WITH 45° LATERAL FITTINGS. 90° TEE FITTINGS SHALL NOT BE USED.
2.) REFER TO PLANS FOR PIPE SIZES.
3.) VFD SHALL BE USED FOR BALANCING, NOT TRIPLE DUTY VALVES.
4.) REFER TO SPECIFICATIONS FOR VIBRATION ISOLATION REQUIREMENTS.
5.) TYPICAL FOR CHW PRIMARY AND SECONDARY PUMPS.
6.) REFER TO FLOOR PLAN FOR PAD SIZE AND LOCATION, COORDINATE EXACT SIZE IN FIELD.

3 BASE MOUNTED PUMP DETAIL
SCALE: NONE



1 FCU ENCLOSURE PIPING SCHEMATIC
SCALE: NONE

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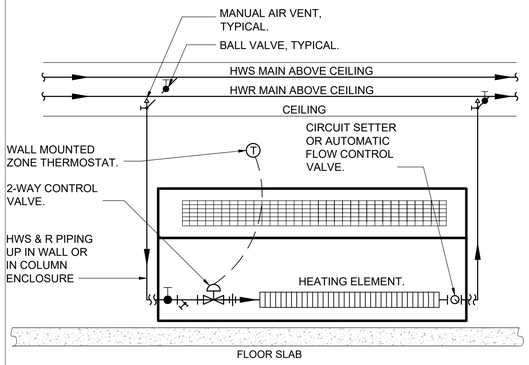
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SHEET TITLE

MECHANICAL DETAILS

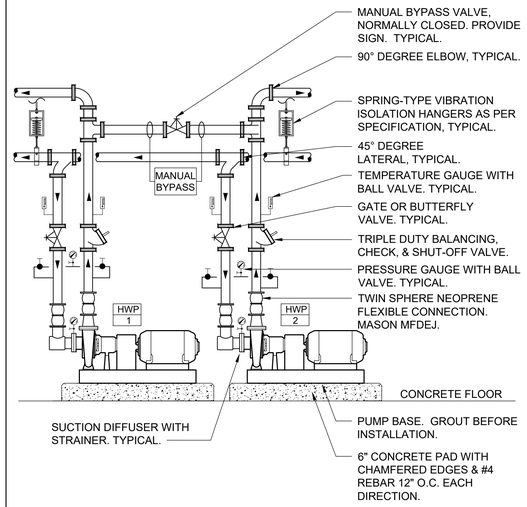
SHEET No.
M701



PIPE SIZE SCHEDULE											
PIPE SIZE	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
MAX. GPM	2	3.5	7	13	22	45	70	130	260	480	750

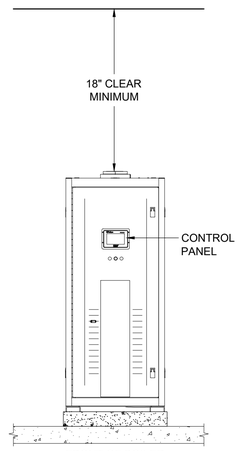
NOTES:
1.) ALTERNATIVE LOCATION FOR CONTROL VALVE & STRAINER CAN BE ABOVE THE CEILING.
2.) ARRANGED AS SHOWN IS REVERSED RETURN. DIRECT RETURN IS SIMILAR.
3.) PIPING ARRANGEMENT IS TYPICAL FOR WALL, SURFACE OR RECESSED MOUNTED.
4.) INSTALL ALL VALVES & PIPE SPECIALTIES INSIDE CONVECTOR CABINETS.
5.) ALL CONVECTOR CABINETS SHALL HAVE ACCESS DOORS.

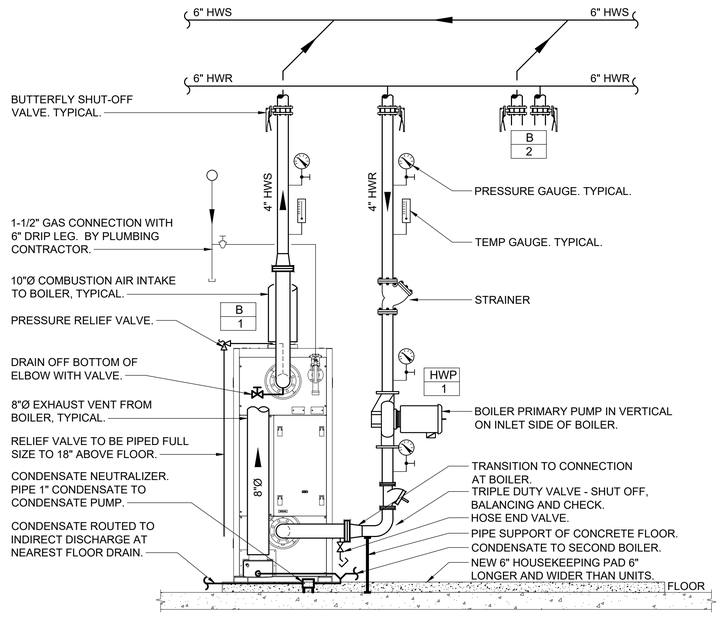
7 HOT WATER CABINET CONVECTOR PIPING SCHEMATIC
SCALE: NONE



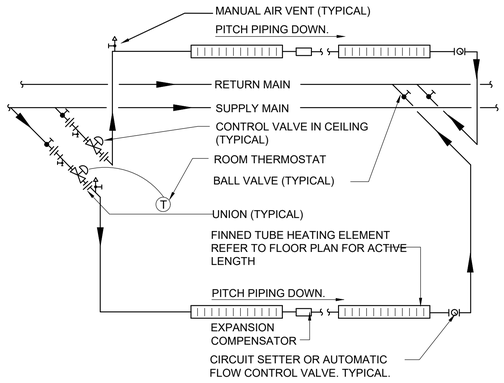
NOTES:
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2.) REFER TO PLANS FOR PIPE SIZES.
3.) VFD SHALL BE USED FOR BALANCING, NOT TRIPLE DUTY VALVES.
4.) REFER TO SPECIFICATIONS FOR VIBRATION ISOLATION REQUIREMENTS.

5 BASE MOUNTED PUMP DETAIL
SCALE: NONE



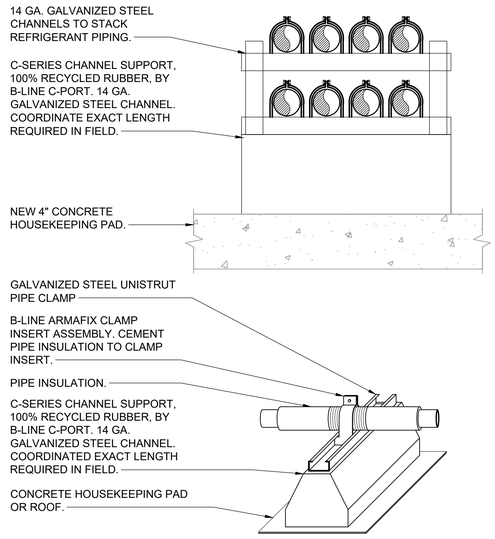


3 BOILER HEATING HOT WATER PIPING SCHEMATIC
SCALE: NONE



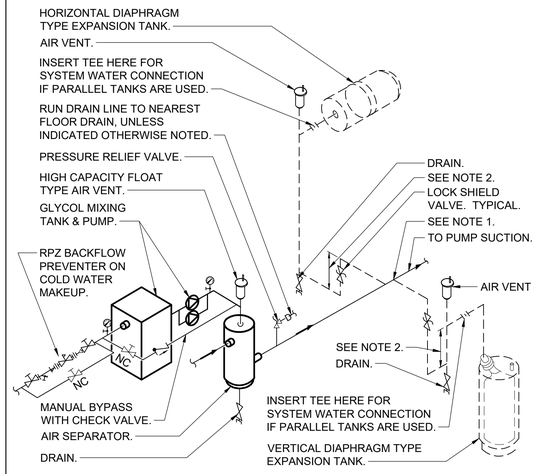
PIPE SIZE SCHEDULE											
PIPE SIZE	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
MAX. GPM	2	3.5	7	13	22	45	70	130	260	480	750

6 HOT WATER FIN TUBE RADIATION PIPING SCHEMATIC
SCALE: NONE



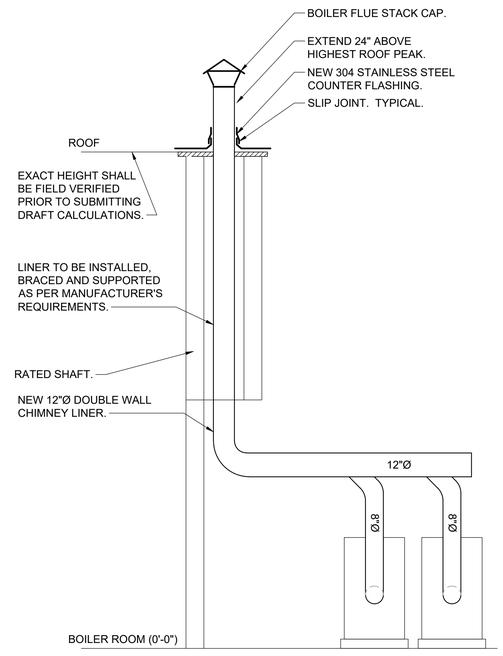
NOTES:
1. ALL BRACKETS, HANGERS, AND FASTENERS SHALL BE GALVANIZED STEEL.
2. CLAMP INSERT ASSEMBLY SHALL INCLUDE GALVANIZED STEEL PIPE CLAMP, ARMAFLEX INSULATION WITH PAINTED ALUMINUM JACKET, AND INTERIOR SUPPORTS.
3. CEMENT RUBBER SUPPORT BLOCKS TO HOUSEKEEPING PAD OR ROOF.

4 REFRIGERANT ON PAD PIPE SUPPORT DETAIL
SCALE: NONE



NOTES:
1.) CONNECT TO SIDE OF MAIN TO PREVENT AIR OR DEBRIS FROM ENTERING PIPE TO TANK, TOP OR BOTTOM CONNECTION NOT PERMITTED.
2.) PROVIDE 12" MINIMUM DROP ANTI-THERMOSYPHON LOOP TO PREVENT GRAVITY HEATING OF TANK.
3.) PROVIDE STRAINER IN AIR SEPARATOR WHEN INDICATED IN THE EQUIPMENT NOTE.
4.) FOR HOT WATER AND CHILLED WATER SYSTEMS 2" AND SMALLER, USE AN IN-LINE AIR PURGER INSTEAD OF AN AIR SEPARATOR.
5.) SET THE PRESSURE REDUCING VALVE SO THAT THE PRESSURE AT HIGHEST POINT IN THE SYSTEM IS 4 PSIG.
6.) DASHED PIPING SHOWS BOTH HORIZONTAL AND VERTICAL DIAPHRAGM TYPE EXPANSION TANKS. PROVIDE ONLY THE TYPE OF TANK SELECTED AND THE ASSOCIATED PIPING.
7.) FOR HEATING-ONLY SYSTEMS WITH HOT WATER HEAT EXCHANGERS, THE RELIEF VALVE SHOWN ON THIS DETAIL MAY BE OMITTED IF A RELIEF VALVE IS SHOWN ON THE HEAT EXCHANGER DETAIL.

2 EXPANSION TANK PIPING SCHEMATIC
SCALE: NONE



1 CHIMNEY LINER DETAIL
SCALE: NONE

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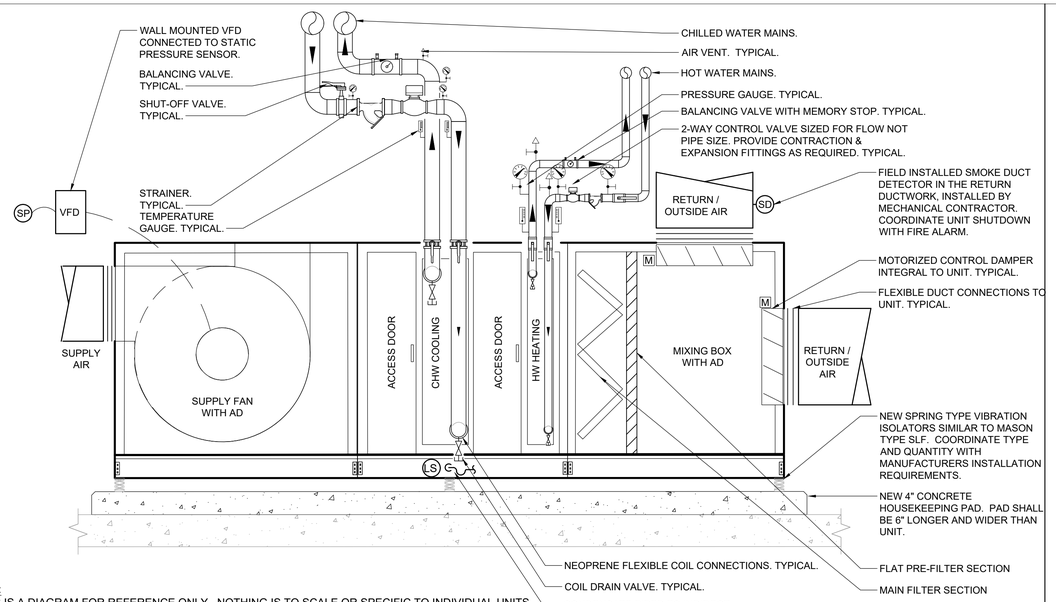
PROJECT No.
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SHEET TITLE

MECHANICAL DETAILS

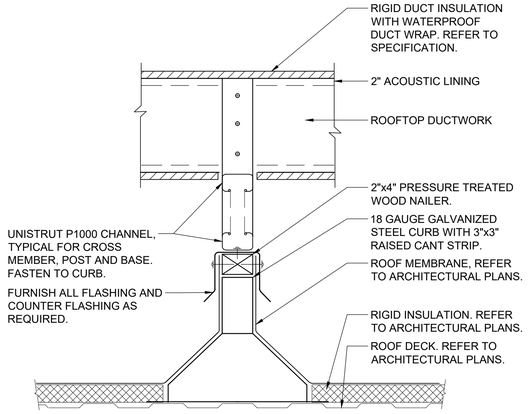
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M702



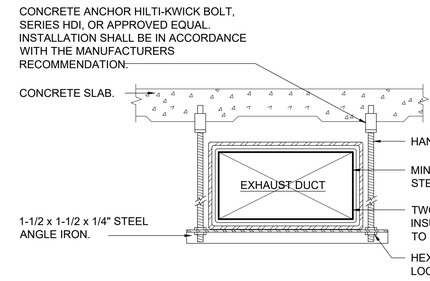
NOTES:
1.) THIS IS A DIAGRAM FOR REFERENCE ONLY. NOTHING IS TO SCALE OR SPECIFIC TO INDIVIDUAL UNITS.
2.) REFER TO FLOOR PLANS FOR ALL SIZES, PIPING & DUCTWORK ROUTING ETC.
3.) REFER TO MANUFACTURERS INSTALLATION REQUIREMENTS TO MEET ALL SERVICE CLEARANCES.
4.) PIPING, DUCTWORK AND ACCESSORIES SHALL NOT BE INSTALLED IN FRONT OF ACCESS DOORS.
5.) ALL PIPING, DUCTWORK, INSULATION, VALVES & SPECIALTIES SHALL BE AS PER THE SPECIFICATIONS.
6.) REVIEW SEQUENCE OF OPERATIONS IN SPECIFICATIONS AND PROVIDE A COMPLETE CONTROL SYSTEM ACCORDINGLY.
7.) POWER SHALL BE SINGLE POINT CONNECTION. VFD SHALL BE PROVIDED BY MECHANICAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
8.) PROVIDE FREEZE PROTECTION CONTROLS ON THE HEATING COIL.
9.) COORDINATE FAN ROTATION WITH DUCTWORK CONFIGURATION IN THE FIELD PRIOR TO ORDERING UNIT.
10.) STATIC PRESSURE (SP) SENSOR SHALL BE LOCATED 2/3 OF THE WAY DOWNSTREAM FROM THE SUPPLY FAN OR WHERE INDICATED ON PLAN.
11.) PROVIDE CONDENSATE PAN OVERFLOW LEVEL SENSOR ARRANGED TO SHUT-DOWN UNIT AND INDICATE A FAULT ON THE DDC.
12.) BUTTERFLY VALVES SHOWN FOR SHUTOFF. BALL VALVES MAY BE USED UP THROUGH 2-1/2" PIPING.

7 AIR HANDLING UNIT ON FLOOR SCHEMATIC
SCALE: NONE



NOTES:
1.) ROOF CURB SHALL BE CUSTOM CURB MODEL CES-1, 13-1/2" NOMINAL HEIGHT, MINIMUM LENGTH SHALL BE 48" OR 12" LONGER THAN DUCT WIDTH.
2.) ALL BRACKETS, HANGERS, FASTENERS AND SUPPORTS LOCATED OUTDOORS SHALL BE GALVANIZED OR NICKEL PLATED.

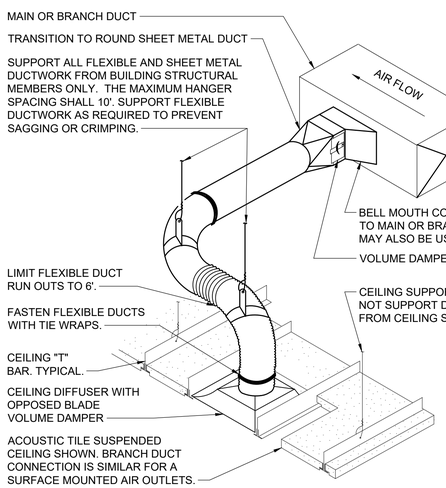
4 ROOF DUCT SUPPORT DETAIL
SCALE: NONE



HANGER ROD SCHEDULE		
DUCT SIZE	HANGER DIA	MAXIMUM SPACING
UP TO 2 SQ. FT.	16 GAUGE - $\frac{3}{8}$"	8'-0"
2 SQ FTTO 4 SQ FT	11 GAUGE - $\frac{3}{8}$"	8'-0"
4 SQ FTTO 10 SQ FT	11 GAUGE - $\frac{1}{2}$"	6'-0"
OVER 10 SQ FT.	11 GAUGE - $\frac{1}{2}$"	4'-0"

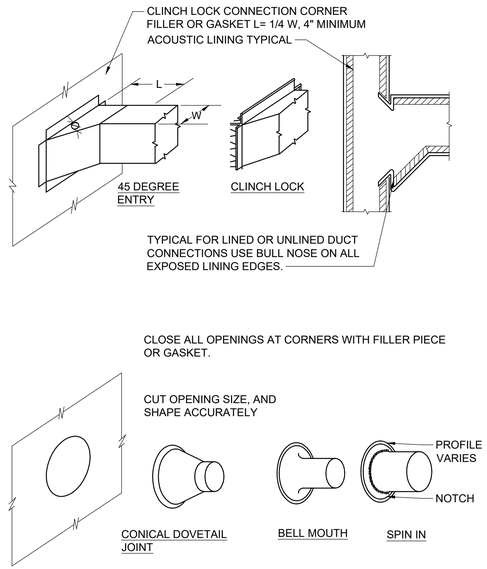
NOTES:
1.) FASTENERS USED TO SECURE THE HANGER STRAPS MUST BE CARBON STEEL OR STAINLESS STEEL AND SHALL NOT PENETRATE DUCT WALLS.
2.) INSULATION SHALL BE 3 M FIRE MASTER UL RATED, DUCT WRAP WITH TEMPERATURE RATING OF 300° F, FOIL ENCAPSULATED SYSTEM RATED FOR 2 HOURS. 2 LAYERS, 3" THICK.
3.) WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

2 KITCHEN EXHAUST DUCT HANGER DETAIL
SCALE: NONE

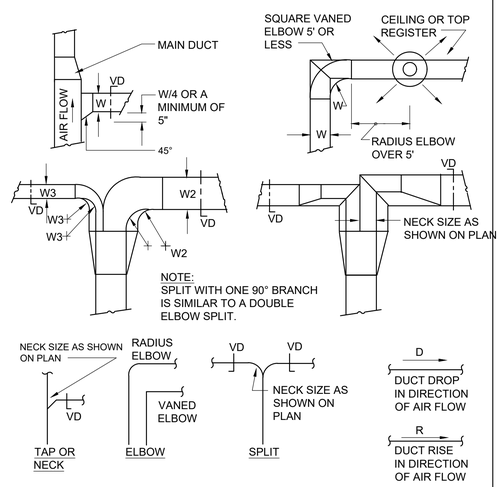


NOTES:
1. THIS BRANCH DUCT ARRANGEMENT IS SIMILAR FOR PLENUM SLOT DIFFUSERS.

6 FLEXIBLE DUCT CONNECTION DETAIL
SCALE: NONE

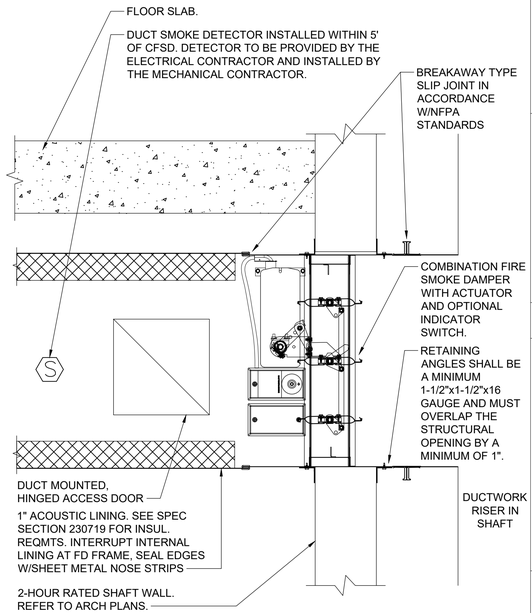


5 DUCT BRANCH CONNECTION DETAIL
SCALE: NONE



NOTES:
1. SINGLE LINE REPRESENTATIONS REFER TO DOUBLE LINE DETAILS.
2. USE RADIUS OR SQUARE VANED BENDS FOR BOTH ELBOWS AND SPLITS AS DETERMINED BY SPACE LIMITATIONS, AND THE DISTANCE FROM AIR OUTLETS.
3. ALL SQUARE ELBOWS SHALL HAVE FACTORY TURNING VANES, AND MAINTAIN A CONSTANT WIDTH.
4. WHERE DUCTS SPLIT, THE SOLID LINE REPRESENTATION IS PREFERRED, UNLESS PRECLUDED BY SPACE, OR OTHERWISE INDICATED.
5. USE ELBOW SPLIT FOR BRANCH CONNECTIONS ONLY WHERE NECK SIZE IS GIVEN.

3 DUCT BRANCH TAKE-OFF DETAIL
SCALE: NONE



1 COMBINATION FIRE SMOKE DAMPER DETAIL
SCALE: NONE

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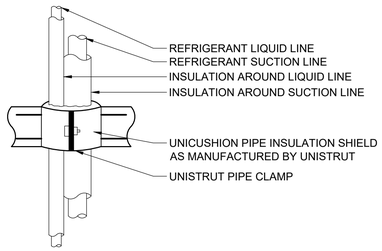
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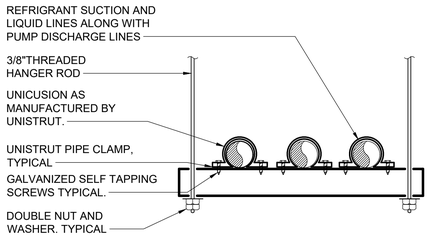
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MECHANICAL DETAILS

SHEET No.

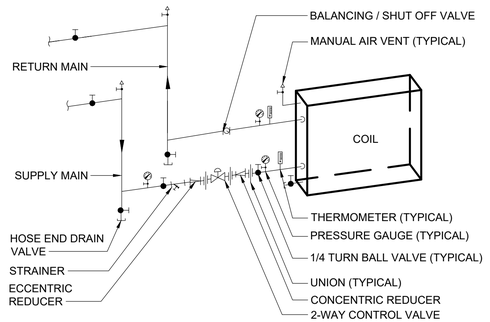
M703





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

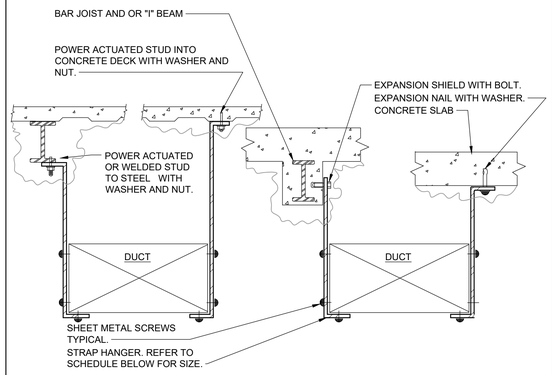
10 REFRIGERANT PIPE SUPPORT DETAIL
SCALE: NONE



NOTES:
1.) LOCATE ALL COIL UNIONS CLOSE TO, AND CLEAR OF, COIL. ARRANGE PIPING SO AS NOT TO NOT INTERFERE WITH COIL REMOVAL.
2.) DETAIL IS TYPICAL FOR AIR HANDLING UNITS.
3.) PROVIDE FLEXIBLE CONNECTION FOR THOSE COILS MOUNTED IN UNITS ON VIBRATION ISOLATORS.

PIPE SIZE SCHEDULE											
PIPE SIZE	1/2	3/4	1	1-1/4	1-1/2	2	2-1/2	3	4	5	6
MAX. GPM	2	3.5	7	13	22	45	70	130	260	480	750

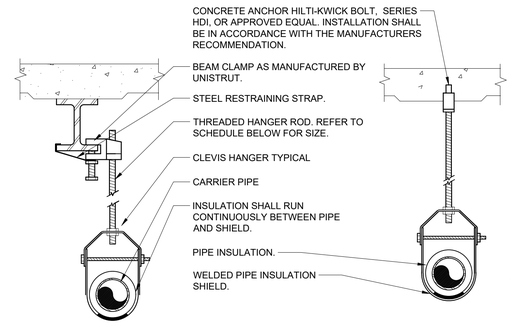
8 HYDRONIC COIL WITH 2-WAY VALVE PIPING SCHEMATIC
SCALE: NONE



NOTES:
1. FOR DUCTS OVER 49" WIDE, THE STRAP HANGER SHALL BE TURNED UNDER THE BOTTOM OF THE DUCT.
2. WHERE EXISTING BUILDING STRUCTURAL COMPONENTS HAVE FIREPROOF MATERIAL, ANY AREA THAT IS DISTURBED OR DAMAGED AS A RESULT OF HANGER INSTALLATION SHALL BE PATCHED WITH UL AND FM APPROVED FIREPROOFING TO MATCH EXISTING.

HANGER STRAP SCHEDULE		
DUCT SIZE	HANGER SIZE	MAXIMUM SPACING
UP TO 2 SQ.FT.	1" X 1/16"	8'-0"
2 SQ.FT. TO 4 SQ.FT.	1" X 1/8"	8'-0"
4 SQ.FT. TO 10 SQ.FT.	1" X 1/8"	6'-0"
OVER 10 SQ.FT.	1" X 1/8"	4'-0"

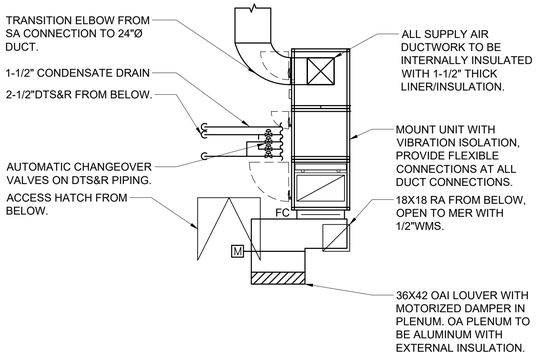
5 DUCT HANGER DETAIL
SCALE: NONE



PIPE HANGER SCHEDULE						
PIPE DIA.	3/4" - 2"	2 1/2" - 3"	4" - 5"	6"	8" - 12"	
HANGER DIA.	3/8"	1/2"	5/8"	3/4"	7/8"	

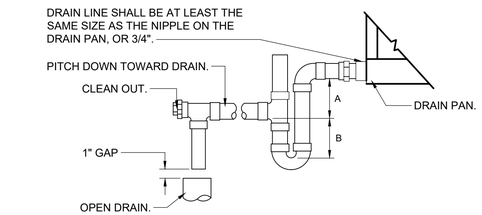
NOTES:
1.) CLEVIS HANGERS WITH WELDED INSULATION SHEILDS SIMILAR TO RAUCH FIG. 100SH ON ALL PIPES LARGER THAN 1".
2.) FOR PIPES 1" OR SMALLER, A BAND HANGER WITH INSULATION SHEILD MAY BE USED SIMILAR TO RAUCH FIG. NO. 1ASH.
3.) FOR NONINSULATED PIPE, INSULATION SHEILDS MAY BE OMITTED.
4.) ALL PIPE HANGERS SHALL BE GALVANIZED STEEL OR FACTORY PAINTED BLACK WITH ENAMEL.
5.) FOR NON FERROUS PIPING WITHOUT INSULATION, ALL HANGERS SHALL BE COPPER PLATED OR FURNISHED WITH A DI-ELECTRIC BETWEEN PIPE AND HANGERS.

2 PIPE HANGER DETAIL
SCALE: NONE



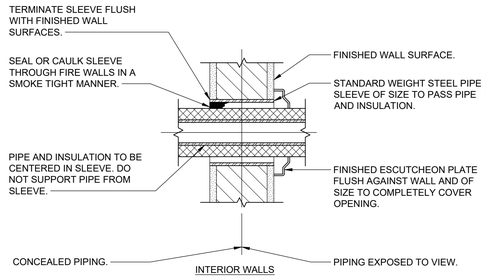
NOTE:
ARRANGEMENT IS TYPICAL FOR BOTH STAGE MER'S. COORDINATE EXACT LOCATIONS AND DIMENSIONS WITH FIELD CONDITIONS.

9 STAGE MER PART PLAN
SCALE: NONE

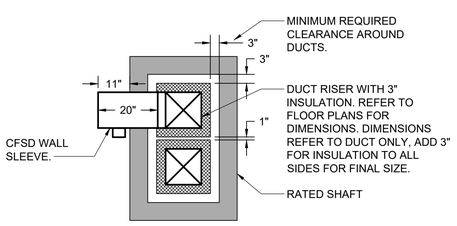


NOTES:
1.) DRAW THRU UNITS; DIMENSION A (DEPTH OF SEAL) SHALL BE 2" MINIMUM AND DIMENSION B SHALL BE 1.2 x THE STATIC PRESSURE OF THE UNIT.
2.) BLOW THRU UNITS; DIMENSION A (DEPTH OF SEAL) SHALL BE 1" MINIMUM AND DIMENSION B SHALL BE 2.0 x THE STATIC PRESSURE OF THE UNIT.

7 AIR CONDITIONING UNIT CONDENSATE DRAIN DETAIL
SCALE: NONE

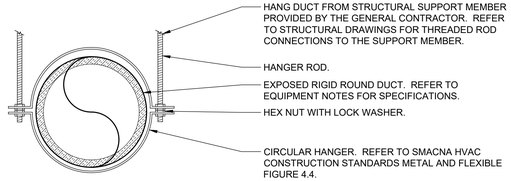


4 PIPE WALL SLEEVE DETAIL FOR INTERIOR WALLS
SCALE: NONE



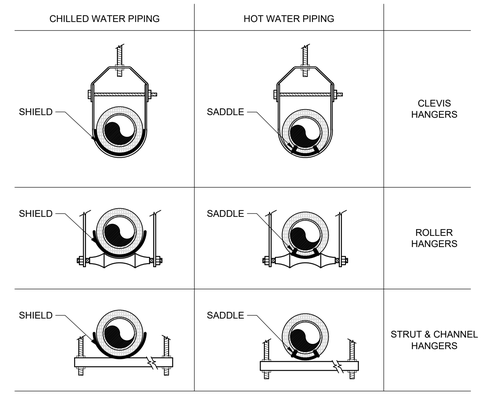
NOTE:
DETAIL IS GENERIC, FOR ILLUSTRATING CLEARANCES ONLY.

6 DUCTWORK IN SHAFT CLEARANCES
SCALE: NONE



HANGER ROD SCHEDULE		
DUCT SIZE	HANGER DIA	MAXIMUM SPACING
UP TO 2 SQ. FT.	16 GAUGE - $\frac{3}{8}$"	8'-0"
2 SQ FT TO 4 SQ FT	11 GAUGE - $\frac{1}{2}$"	8'-0"

3 ROUND DUCT HANGER DETAIL
SCALE: NONE



NOTES:
1. INSULATION ON ALL COLD SURFACES SHALL BE APPLIED WITH A CONTINUOUS, UNBROKEN VAPOR SEAL. HANGERS, SUPPORTS, ANCHORS, ETC., THAT ARE SECURED DIRECTLY TO COLD SURFACES SHALL BE ADEQUATELY INSULATED AND VAPOR SEALED TO PREVENT CONDENSATION.
2. GALVANIZED METAL SHIELDS SHALL BE APPLIED BETWEEN HANGERS OR SUPPORTS AND THE PIPE INSULATION AS SHOWN ABOVE. SHIELDS SHALL BE FORMED TO FIT THE INSULATION AND SHALL EXTEND UP TO THE CENTERLINE OF THE PIPE.
3. RIGID INSULATION INSERTS SHALL BE INSTALLED ON PIPE SIZES 1½" (38 MM) OR LARGER AS SHOWN ABOVE. INSERTS SHALL BE OF EQUAL THICKNESS TO THE ADJOINING INSULATION AND SHALL BE PROVIDED WITH VAPOR RETARDER SEALS.

1 PIPE INSULATION SADDLE/SHIELD SCHEDULE
SCALE: NONE

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SHEET TITLE

MECHANICAL DETAILS

SHEET No.

M704

SYMBOLS AND ABBREVIATIONS

SYMBOL	ABBREVIATION	DESCRIPTION
———	-	CONDUIT AND WIRING
— — —	-	CONDUIT & WIRING TO BE REMOVED UON
——UG——	-	BURIED CONDUIT
——OH——	-	OVERHEAD CONDUCTORS
	-	HOMERUN TO PANEL, ARROWS INDICATE # 1P
	-	MULTI-POLE HOMERUN
	-	ELECTRICAL EQUIPMENT AS INDICATED
	-	ELECTRICAL EQUIPMENT TO BE REMOVED UON
(M)	-	ELECTRIC METER
	-	FUSED DISCONNECT SWITCH
	-	UNFUSED DISCONNECT SWITCH
	-	BATTERY PACK EMERGENCY LIGHT FIXTURE
	-	EXIT LIGHT, FACES-SHADED, CHEVRON-ARROW
S_x	-	SINGLE POLE SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^3	-	THREE WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^4	-	FOUR WAY SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_x^{DIM}	-	DIMMER SWITCH (x - INDICATES FIXTURE BEING CONTROLLED)
S_M	-	MOTOR RATED TOGGLE SWITCH
S_K	-	KEY OPERATED SINGLE POLE SWITCH
	-	WALL MOUNTED OCCUPANCY SENSOR
V	-	WALL MOUNTED VACANCY SENSOR
OC	-	CEILING MOUNTED OCCUPANCY SENSOR
OC V	-	CEILING MOUNTED VACNACY SENSOR
	-	DUPLEX RECEPTACLE
	-	DOUBLE DUPLEX RECEPTACLE
	-	TELEPHONE OUTLET
X	-	DATA OUTLET (x - INDICATES # OF JACKS, 1 JACK UON)
	-	COMBINATION TELEPHONE/DATA OUTLET
F	-	FIRE ALARM MANUAL PULL STATION
F V	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (15/75 CD - STROBE) - V DENOTES VOICE
F 110 V	-	FIRE ALARM COMBINATION AUDIO/VISUAL DEVICE (110 CD - STROBE) - V DENOTES VOICE
F	-	FIRE ALARM STROBE 15/75 CD
F 110	-	FIRE ALARM STROBE 110 CD
S EL; SH; SC	-	SMOKE DETECTOR. EL - ELEVATOR LOBBY; SH - SMOKE HATCH; SC - PLENUM RATED ABOVE CEILING
SB	SB	FIRE ALARM DEVICE. SB - SOUNDER BASE FOR SMOKE OR CARBON MONOXIDE DETECTOR
RX	-	BEAM SMOKE DETECTOR RECEIVER
TX	-	BEAM SMOKE DETECTOR TRANSMITTER
S AC-	-	DUCT MOUNTED SMOKE DETECTOR
H	-	HEAT DETECTOR
DR	-	FIRE ALARM DOOR RELEASE
ANN	-	FIRE ALARM ANNUNCIATOR PANEL
CM	CM	FIRE ALARM CONTROL MODULE
MM	MM	FIRE ALARM MONITORING MODULE
FACP	FACP	FIRE ALARM CONTROL PANEL
BPS	BPS	BOOSTER POWER SUPPLY
R	-	FIRE ALARM RELAY
	EOL	END OF LINE RESISTOR
SP	-	CEILING MOUNTED PUBLIC ADDRESS SPEAKER
PTZ	-	SECURITY CAMERA (PTZ - PAN, TILT, ZOOM)
HD	-	ELECTRIC HAND DRYER

SYMBOL	ABBREVIATION	DESCRIPTION
	CB	CIRCUIT BREAKER
200AS 150AF	-	FUSED SWITCH
OR	GND	GROUND AS PER LOCAL CODE
OR T	XFMR	TRANSFORMER
	CT	CURRENT TRANSFORMER
	-	UTILITY POLE
WM	WM	WATER MAIN
M	MD	MOTORIZED DAMPER
	SD OR CFSD	SMOKE DAMPER
	A	AMPERE(S)
	AC	AIR CONDITIONER
	ACC	AIR CONDITIONER CONDENSER
	AFF	ABOVE FINISHED FLOOR
	AF	AMPERAGE OF FUSE
	AS	AMPERAGE OF SWITCH
	AWG	AMERICAN WIRE GAUGE
	BLDG	BUILDING
	BMS	BUILDING MANAGEMENT SYSTEM
	C	CONDUIT
	CD	CANDELA
	CKT	CIRCUIT
	CLG	CEILING
	COL	COLUMN
	CU	COPPER
	DEM.	DEMOLISH AND REMOVE
	DISC	DISCONNECT
	DIM	DIMMER
	ELEV	ELEVATOR
	EMT	ELECTRICAL METALLIC TUBING
	EM	EMERGENCY
	EX.	EXISTING TO REMAIN
	FCU	FAN COIL UNIT
	GFI	GROUND FAULT INTERRUPTER
	HP	HORSEPOWER
	HVAC	HEATING VENTILATION AIR CONDITIONING
	KVA	KILO-VOLT-AMPERE
	KW	KILO-WATT
	MAX	MAXIMUM
	MCB	MAIN CIRCUIT BREAKER
	MIN	MINIMUM
	MLO	MAIN LUG ONLY
	OH	OVERHEAD
	P	POLE
	PNL	PANEL
	REL.	REMOVE AND RELOCATE
	RGS	RIGID GALVANIZED STEEL
	RTU	ROOF TOP UNIT
	SCH	SCHEDULE
	SPD	SURGE PROTECTION DEVICE
	SW	SWITCH(ES)
	TELCO	TELEPHONE COMPANY
	TYP	TYPICAL
	UG	UNDERGROUND
	UON	UNLESS OTHERWISE NOTED
	VIF	VERIFY IN FIELD
	V	VOLT(S)
	WAP	WIRELESS ACCESS POINT
	WH	WATER HEATER
	WP	WEATHERPROOF

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

DEFINITION OF TERMS

1. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "CLIENT" IS USED, IT MUST BE UNDERSTOOD THAT "PELHAM SCHOOL DISTRICT" IS INTENDED.
2. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ARCHITECT" IS USED, IT MUST BE UNDERSTOOD THAT "KG&D ARCHITECTS" IS INTENDED.
3. WHEREVER IN THE CONTRACT DOCUMENTS THE WORD "ENGINEER" IS USED, IT MUST BE UNDERSTOOD THAT "OLA CONSULTING ENGINEERS" IS INTENDED.
4. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "ELECTRICAL UTILITY" OR "POWER COMPANY" ARE USED, IT MUST BE UNDERSTOOD THAT "CON EDISON" IS INTENDED.
5. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "TELEPHONE UTILITY" OR "TELCO" ARE USED, IT MUST BE UNDERSTOOD THAT "VERIZON" IS INTENDED.
6. WHEREVER IN THE CONTRACT DOCUMENTS THE WORDS "FIRE ALARM SYSTEM" OR "FIRE ALARM VENDOR" ARE USED, IT MUST BE UNDERSTOOD THAT "OPEN SYSTEMS" IS INTENDED. CONTACT CHARLIE MAGNOTTA AT 914-329-4219.
7. "WORK" MUST BE DEEMED TO CONSIST OF ALL LABOR AND OPERATIONS, TRANSPORTATION, HOISTING, MATERIALS, TOOLS, EQUIPMENT, SERVICES, INSPECTIONS, INVESTIGATIONS, COORDINATION AND SUPERVISION REQUIRED AND / OR REASONABLY NECESSARY TO PRODUCE THE CONSTRUCTION REQUIRED BY THE CONTRACT DOCUMENTS.
8. "FURNISH" MEANS THE DESIGN, FABRICATION, PURCHASE AND DELIVERY TO THE JOB SITE.
9. "INSTALL OR INSTALLATION" MEANS THE ACT OF PHYSICALLY PLACING, APPLYING, SETTING, ERECTING, ANCHORING, SECURING, ETC., CONSTRUCTION MATERIALS, EQUIPMENT, FURNISHINGS, APPLIANCES, AND SIMILAR ITEMS SPECIFIED AND FURNISHED AT THE JOB SITE. INSTALLATION OF SPECIFIED ITEMS MUST BE COMPLETE IN ALL RESPECTS.
10. "PROVIDE" MEANS TO FURNISH AND INSTALL CONSTRUCTION MATERIAL, EQUIPMENT, ETC. AS DEFINED ABOVE.
11. THE FOLLOWING ARE DEFINITIONS OF SHOP DRAWING STAMP ACTIONS:

A. "NO EXCEPTIONS TAKEN" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY COMMENCE.

B. "MAKE CORRECTIONS NOTED" MEANS THAT THE SHOP DRAWING IS CORRECT AS TO PERFORMANCE, CAPACITY, ETC. AND SUBSTANTIAL CONFORMANCE TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS, SUBJECT TO AND IN COMPLIANCE WITH THE ANNOTATIONS AND/OR CORRECTIONS INDICATED ON THE SHOP DRAWING. FABRICATION AND/OR PURCHASE MAY COMMENCE.

C. "AMEND AND RESUBMIT" MEANS THAT THE COMMENTS AND/OR CORRECTION ARE SO EXTENSIVE AND IMPORTANT THAT THE REVIEWER WANTS TO SEE HOW THE COMMENTS AND/OR CORRECTIONS ARE RESOLVED PRIOR TO RELEASE FOR FABRICATION AND/OR PURCHASE. FABRICATIONS AND/OR PURCHASE MAY NOT COMMENCE.

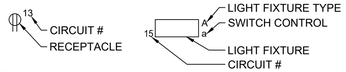
D. "REJECTED" MEANS THAT THE SHOP DRAWING DOES NOT COMPLY OR CONFORM TO THE CONTRACT DRAWINGS AND/OR SPECIFICATIONS. FABRICATION AND/OR PURCHASE MAY NOT COMMENCE.

TYPICAL BRANCH CIRCUIT WIRING LEGEND

2-#12 & 1-#12 GND (1-1P-20A OR 1-1P-15A CB)

3-#12 & 1-#12 GND (3P-20A OR 3P-15A CB)

2-#12 & 1-#12 GND (2P-20A OR 2P-15A CB)



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.

TRENCHING NOTES

1. CONTRACTOR SHALL LOCATE ALL EXISTING UNDERGROUND UTILITIES THAT ARE NOT PART OF N.Y. STATE "CODE 753" PRIOR TO DIGGING.
2. ALL EXCAVATING IN THE AREA OF THE EXISTING UNDERGROUND EQUIPMENT, PIPES AND CONDUITS SHALL BE PERFORMED BY HAND.
3. ANY AREA/PLANTS OR LANDSCAPING OR PAVEMENTS DISTURBED DURING THE EXCAVATION SHALL BE RESTORED OR REPLACED TO MATCH EXISTING CONDITIONS BY THE CONTRACTOR AT NO COST TO THE OWNER.
4. ANY EXISTING BURIED CONDUITS, DRAINAGE, SPRINKLER PIPING, ETC. THAT IS DISTURBED AND/OR DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED BY THE CONTRACTOR AT NO COST TO THE OWNER.
5. THE PLANS SHOW SOME KNOWN SUBSURFACE STRUCTURES, ABOVE GROUND STRUCTURES AND/OR UTILITIES BELIEVED TO EXIST IN THE WORKING AREA, EXACT LOCATION OF WHICH MAY VARY FROM THE LOCATIONS INDICATED. IN PARTICULAR, THE CONTRACTOR IS WARNED THAT THE EXACT OR EVEN APPROXIMATE LOCATION OF SUCH PIPELINES, SUBSURFACE STRUCTURES AND/OR UTILITIES IN THE AREA MAY OR MAY NOT BE SHOWN; AND IT SHALL BE HIS RESPONSIBILITY TO PROCEED WITH GREAT CARE IN EXECUTING ANY WORK. 48 HOURS BEFORE YOU DIG, DRILL OR BLAST, CALL 1-800-962-7962.

ADD ALTERNATE

1. ALL WORK ASSOCIATED WITH THE PHOTO VOLTAIC (PV) SYSTEM SHALL BE 1PRICED AS AN ADD ALTERNATE. REFER TO DRAWINGS E301, E302, E303, E304, E304 AND E500 FOR ASSOCIATED WORK FOR PV SYSTEM.

GENERAL NOTES

1. ALL WORK SHOWN IS NEW UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
2. THE DRAWINGS ARE TO BE CONSIDERED SCHEMATIC ONLY AND DO NOT NECESSARILY SHOW THE EXACT LOCATIONS AND DETAILS OF THE WORK TO BE INSTALLED.
3. 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.
4. 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.
5. ALL WORK INVOLVING THE ELECTRIC SERVICE SHALL BE COORDINATED AND APPROVED BY THE UTILITY COMPANY.
6. ALL CONDUCTORS SHALL BE COPPER UON "ON DRAWINGS".
7. ELECTRONIC FILES OF THE MECHANICAL, ELECTRICAL, PLUMBING AND FIRE PROTECTION DRAWINGS ARE AVAILABLE TO THE CONTRACTOR. THE ENGINEER MAY GRANT THE CONTRACTOR A LIMITED LICENSE TO MAKE A DERIVATIVE WORK OF THE DATABASE FOR THE PURPOSE OF SHOP DRAWINGS, SUBMITTALS AND AS-BUILT DRAWINGS. UPON REQUEST, THE ENGINEER SHALL PROVIDE A RELEASE FORM THAT MUST BE SIGNED AND RETURNED BY THE CONTRACTOR PRIOR TO RELEASE OF THE ELECTRONIC FILES.
8. CIRCUIT NUMBERS ARE FOR INFORMATION PURPOSES ONLY. ACTUAL CIRCUIT NUMBERS SHALL BE DETERMINED IN THE FIELD.
9. FOR EACH WALL MOUNTED COMMUNICATIONS OUTLET, PROVIDE A 1900 JUNCTION BOX WITH AN EXTENDER COLLAR AND 1 INCH CONDUIT WITH DRAGLINE 6 INCHES ABOVE ACCESSIBLE CEILING FOR INSTALLATION OF CABLE BY ELECTRICAL CONTRACTOR. REFER TO LOW VOLTAGE RESPONSIBILITY SCOPE OF WORK MATRIX ON DRAWING E703.
10. COMMUNICATION WIRING BY ELECTRICAL CONTRACTOR. COORDINATE COMMUNICATION JACKS WITH REPRESENTATIVE, TYPICAL. REFER TO LOW VOLTAGE RESPONSIBILITY SCOPE OF WORK MATRIX ON DRAWING E703.
11. WHERE GFI RECEPTACLES ARE CIRCUITED WITH GENERAL CONVENIENCE RECEPTACLES, THE GFI RECEPTACLE SHALL BE THE LAST DEVICE ON THE CIRCUIT.
12. INSTALL CONDUIT EXPANSION FITTINGS AT ALL LOCATIONS WHERE CONDUITS CROSS BUILDING OR STRUCTURE EXPANSION JOINTS.
13. CEILING MOUNTED RECEPTACLES SHALL BE MOUNTED FLUSH TO CEILING.
14. 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.
15. 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.
16. ALL CONDUCTORS INSTALLED BETWEEN VFDs AND ASSOCIATED MOTORS SHALL BE XHHW-2, 1000V IN RGS, IMC, EMT, FMC OR LFMC.
17. INCLUDE IN BASE BID (4) 1P-20A CIRCUITS ON EACH LEVEL (150' LENGTH EACH) FOR HVAC SYSTEM CONTROL PANELS. EXACT LOCATION OF CONTROL PANELS SHALL BE COORDINATED WITH DIVISION 23 IN THE FIELD. CIRCUITS SHALL ORIGINATE FROM THE FOLLOWING PANELBOARDS:

    GROUND FLOOR - PPM1-10,12,14,16
    FIRST FLOOR - PP1A- 9,11,13,15
    SECOND FLOOR - PP2A- 11,13,15,17
    ATTIC - PPR - 51,53,55,57

18. 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.
19. ADDITIONAL WORK TO BE PERFORMED BY THE ELECTRICAL CONTRACTOR SHOWN ON KITCHEN DRAWINGS, KA-1, KA-2, KA-3, KA-4 AND KA-5 AND SECURITY DRAWINGS, LV100, LV101 AND LV102 RESPECTIVELY. COORDINATE WITH THESE DRAWINGS AND KITCHEN AND SECURITY CONTRACTORS.
20. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL POWER AND DATA DRAWINGS A511, A512 AND A513 FOR LOCATIONS.
21. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH ARCHITECTURAL CEILING DRAWINGS A601, A602, A603, A604, A605 AND A606 FOR LIGHTING FIXTURE LOCATIONS.

DEMOLITION NOTES

1. ALL EQUIPMENT SHALL BE DISCONNECTED AND REMOVED BACK TO POWER SOURCE ORIGINATION UNLESS OTHERWISE NOTED (UON) EXISTING TO REMAIN (EX.).
2. CONTRACTOR SHALL VERIFY EXTENT OF DEMOLITION WORK IN THE FIELD PRIOR TO BID AND SHALL INCLUDE ALL LABOR AND MATERIALS IN BASE BID INCLUDING ALL TEMPORARY CONNECTIONS, CONDUIT AND WIRE IN ORDER TO ACCOMMODATE CONSTRUCTION AND PROVIDE CONTINUOUS SERVICE TO DEVICES AND SYSTEMS TO REMAIN, TEMPORARY AND PERMANENTLY. WORK REQUIRING THE SHUT-DOWN OF THE BUILDING POWER SHALL BE PERFORMED DURING OVERTIME AND SHALL BE INCLUDED IN BASE BID.
3. CIRCUIT BREAKER, DISCONNECT SWITCH, PANELBOARD, EQUIPMENT, CONDUIT CONDUCTOR, ETC. SIZES AND RATINGS INDICATED SHALL BE FIELD VERIFIED PRIOR TO BID.
4. ALL EXISTING ELECTRICAL EQUIPMENT NO LONGER IN USE, SUCH AS DISCONNECT SWITCHES, MOTOR CONTROLLERS, MOTOR STARTER PANELS, ETC. SHALL BE REMOVED UON.
5. ALL DISCONNECTED & REMOVED EXISTING ELECTRICAL ITEMS THAT ARE NOT BEING REUSED SHALL BE RETURNED TO THE OWNER OR DISPOSED OF AS DIRECTED.
6. THE CONTRACTOR SHALL INCLUDE IN THE BASE BID FOR ALL MATERIAL & LABOR REQUIRED FOR THE EXTENSIONS, REROUTING & RELOCATION OF EXISTING SYSTEM COMPONENTS, EQUIPMENT, WIRING, CONDUITS & CABLING SO AS TO MAINTAIN OPERATION OF ALL SYSTEMS THROUGHOUT THE BUILDING DURING DEMOLITION & CONSTRUCTION PHASES. INCLUDE ALLOWANCES FOR NORMAL UNFORESEEN DIFFICULTIES WHEN CONCEALED WORK HAS BEEN OPENED. NO CLAIMS FOR ADDITIONAL WORK ASSOCIATED WITH DEMOLITION WILL BE ACCEPTED EXPECT IN SPECIFIC CASES CONSIDERED JUSTIFIABLE BY THE ARCHITECT AND/OR ENGINEER.
7. ALL ELECTRICAL WORK IN ADJOINING AREAS WHICH IS REQUIRED TO REMAIN OPERATIONAL BUT IS AFFECTED BY DEMOLITION WORK SHALL BE RECONNECTED AND RESTORED TO ITS PRESENT FUNCTION AS PART OF ELECTRICAL SYSTEM OF THE BUILDING(S).
8. THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL OUTLETS, SWITCHES, AND OTHER DEVICES, COMPLETE WITH ASSOCIATED WIRING, CONDUIT, ETC., FROM PARTITIONS THAT ARE TO BE REMOVED. WHERE THE REMOVAL OF THESE ITEMS MAKE DEAD ELECTRICAL WIRING THAT IS TO REMAIN, THE CONTRACTOR SHALL INSTALL JUNCTION BOXES AND OTHER DEVICES AND PROVIDE BYPASS CONNECTIONS NECESSARY TO MAKE THE CIRCUITS AFFECTED CONTINUOUS AND READY FOR OPERATION. OTHERWISE, WIRING SHALL BE REMOVED BACK TO NEAREST ELECTRICAL JUNCTION BOX THAT IS TO REMAIN OR TO THE PANELBOARD.
9. ALL RACEWAYS WHICH BECOME EXPOSED BEYOND FINISHED SURFACES BECAUSE OF THE ALTERATION WORK SHALL BE REMOVED AND REROUTED BEHIND THE FINISHED SURFACES.
10. PORTIONS OF FEEDER LINES THAT HAVE TO BE REMOVED AS A RESULT OF DEMOLITION WORK, BUT ARE REQUIRED TO CONTINUE TO FUNCTION, SHALL BE CUT AT CONVENIENT LOCATIONS OUTSIDE OF THE AREA OF WORK, REROUTED AND RECONNECTED FOR CONTINUATION OF THEIR PRESENT FUNCTION. NEW FEEDER EXTENSIONS SHALL MATCH EXISTING ONES IN ALL RESPECTED: CONDUCTOR CAPACITY, CONDUIT SIZE, ETC.

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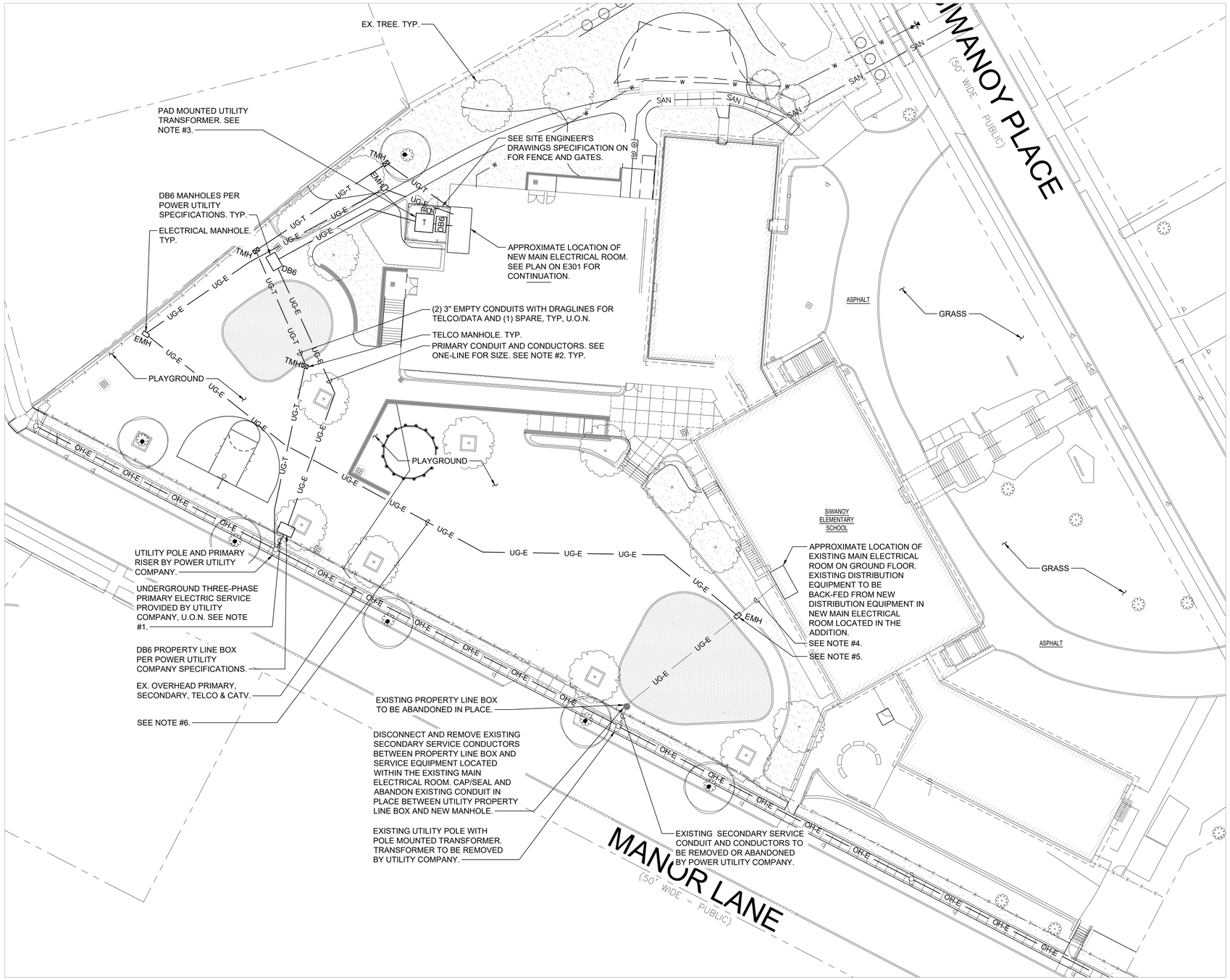
NYSED PROJECT CONTROL No.
66-16-01-03-0-004-014

DATE: 11/12/2026
CONSTRUCTION DOCUMENTS
ISSUE FOR BID
REVISION

PROJECT No.
NKGD0292.00

SHEET TITLE
ELECTRICAL SYMBOLS, ABBREVIATIONS, AND GENERAL NOTES

SHEET No.
E001



1 ELECTRICAL SITE PLAN

SCALE: 1" = 20'

NOTES:

1.) THIS CONTRACTOR SHALL PROVIDE TWO 4" RGS (ONE SPARE) STUBBED OUT OF PROPERTY LINE BOX. EXTEND CONDUITS ONE (1) FOOT BEYOND PROPERTY LINE AND SIDEWALK AREA. COORDINATE WORK WITH POWER UTILITY COMPANY. PRIMARY SERVICE CONNECTION IN PROPERTY LINE BOX BY POWER UTILITY COMPANY.

2.) UNDERGROUND PRIMARY SERVICE CONDUIT AND CONDUCTORS PER POWER UTILITY COMPANY SPECIFICATIONS BY THIS CONTRACTOR. SEE ONE-LINE DIAGRAM.

3.) PAD MOUNTED TRANSFORMER FURNISHED BY POWER UTILITY COMPANY TO THE PROPERTY LINE AND RIGGING/INSTALLATION BY THIS CONTRACTOR. TERMINATIONS IN TRANSFORMER BY THIS CONTRACTOR. PROVIDE CONCRETE PAD AND GROUNDING PER UTILITY COMPANY SPECIFICATIONS.

4.) EXISTING SERVICE CONDUITS TO BE RE-USED. PULL OUT EXISTING SECONDARY SERVICE CONDUCTORS BACK TO SERVICE EQUIPMENT AND INSTALL NEW FEEDERS TO NEW DISTRIBUTION EQUIPMENT IN THE ADDITION NEW MAIN ELECTRICAL ROOM. SEE ONE-LINE DIAGRAM FOR SIZE.

5.) POUR NEW ELECTRICAL 4'x4'x4' MANHOLE OVER EXISTING CONDUITS. SEE DETAIL ON E702. TYP. CUT EXISTING CONDUITS WITHIN MANHOLE AND INSTALL NEW FEEDER CONDUCTORS.

6.) EXISTING SERVICE CONDUITS SERVING EXISTING SCHOOL DISTRIBUTION EQUIPMENT TO BE INTERCEPTED, PULLOUT EXISTING SECONDARY SERVICE CONDUCTORS AND INSTALL NEW FEEDER TO NEW MAIN ELECTRICAL ROOM DISTRIBUTION BOARD LOCATED IN THE ADDITION TO BACK-FEED THE EXISTING SCHOOL DISTRIBUTION EQUIPMENT FROM THE NEW MAIN DISTRIBUTION EQUIPMENT. SEE ONE-LINE DIAGRAM FOR SIZE.

7.) EXISTING SERVICE CONDUITS TO BE RE-USED. PULL OUT EXISTING SECONDARY SERVICE CONDUCTORS BACK TO SERVICE EQUIPMENT AND INSTALL NEW FEEDERS TO NEW DISTRIBUTION EQUIPMENT IN THE ADDITION NEW MAIN ELECTRICAL ROOM. SEE ONE-LINE DIAGRAM FOR SIZE.

8.) POUR NEW ELECTRICAL 4'x4'x4' MANHOLE OVER EXISTING CONDUITS. SEE DETAIL ON E702. TYP. CUT EXISTING CONDUITS WITHIN MANHOLE AND INSTALL NEW FEEDER CONDUCTORS.

9.) EXISTING SERVICE CONDUITS SERVING EXISTING SCHOOL DISTRIBUTION EQUIPMENT TO BE INTERCEPTED, PULLOUT EXISTING SECONDARY SERVICE CONDUCTORS AND INSTALL NEW FEEDER TO NEW MAIN ELECTRICAL ROOM DISTRIBUTION BOARD LOCATED IN THE ADDITION TO BACK-FEED THE EXISTING SCHOOL DISTRIBUTION EQUIPMENT FROM THE NEW MAIN DISTRIBUTION EQUIPMENT. SEE ONE-LINE DIAGRAM FOR SIZE.

10.) PROVIDE RGS SWEEP AND RISER CONDUITS FOR TELCO. CABLE TV 20' UP CUSTOMER POLE. PROVIDE CROSSARMS, INSULATORS AND FUSE CUTOUTS AS REQUIRED PER UTILITY COMPANY STANDARDS.

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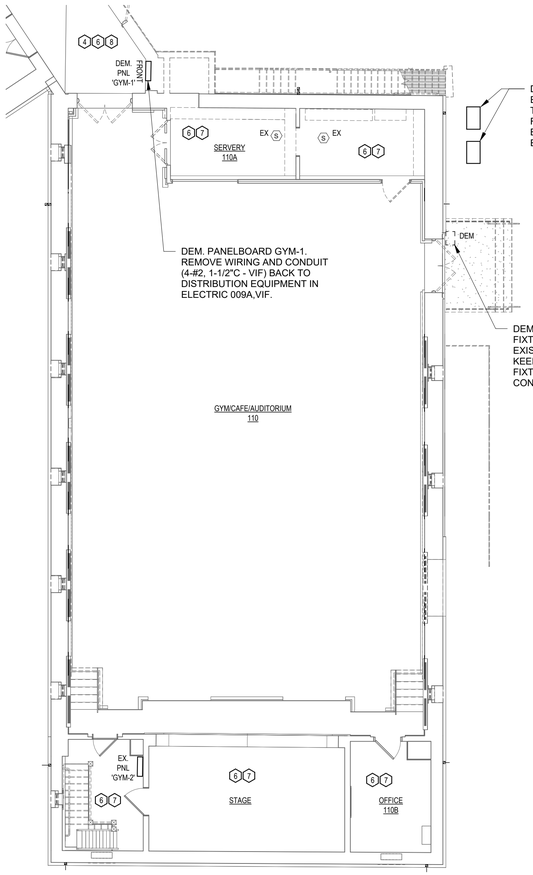
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SHEET TITLE

ELECTRICAL SITE PLAN

SHEET No.

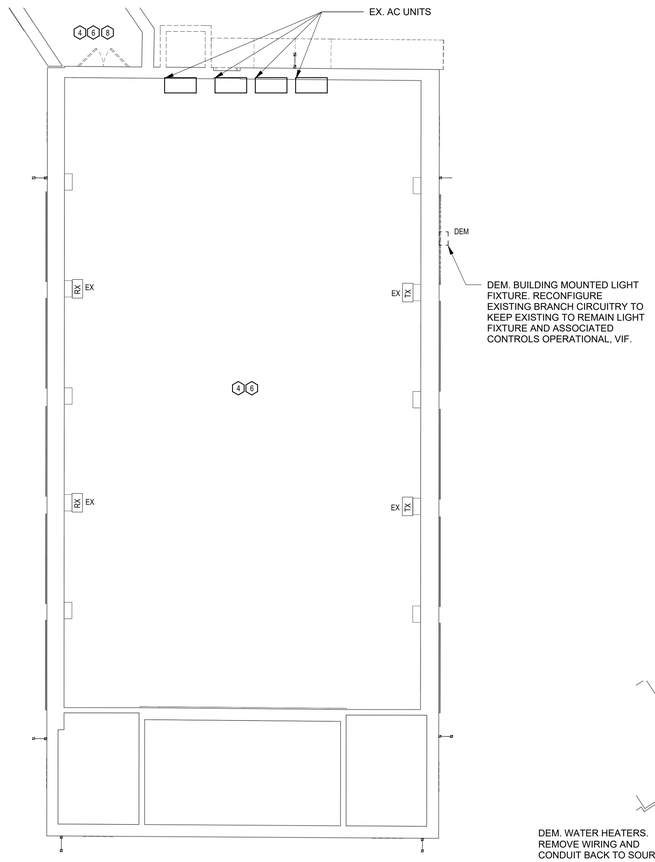
E100



2 NORTH

ELECTRICAL AREA C 1ST FLOOR DEMOLITION PLAN

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



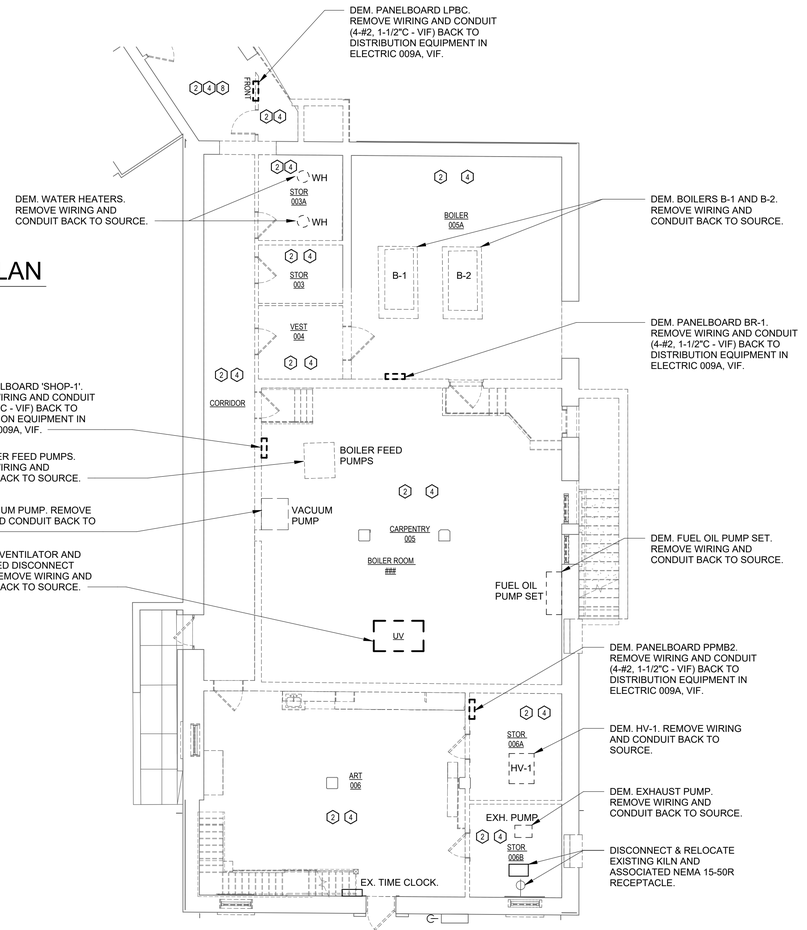
3 NORTH

ELECTRICAL AREA C 2ND FLOOR DEMOLITION PLAN

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

DEMOLITION SCOPE OF WORK LEGEND:

1. - DEMOLISH ALL ELECTRICAL WIRING DEVICES, EQUIPMENT, AND SWITCHES. RECONFIGURE BRANCH CIRCUITRY/CABLE SO THAT EXISTING TO REMAIN ELECTRICAL DEVICES, LOCATED OUTSIDE AREA INDICATED, REMAIN OPERATIONAL
2. - DEMOLISH ALL ELECTRICAL WIRING DEVICES, DISTRIBUTION EQUIPMENT, SWITCHES, AND FIRE ALARM DEVICES. REMOVE ALL ASSOCIATED BRANCH CIRCUIT AND FEEDER CONDUITS, CONDUCTORS, CABLES, AND RACEWAYS BACK TO SOURCE.
3. - DEMOLISH ALL ELECTRICAL LIGHTING FIXTURES AND ASSOCIATED LIGHTING CONTROLS. RECONFIGURE BRANCH CIRCUITRY SO THAT EXISTING TO REMAIN ELECTRICAL LIGHTING FIXTURES AND LIGHTING CONTROLS REMAIN OPERATIONAL.
4. - DEMOLISH ALL ELECTRICAL LIGHTING FIXTURES AND ASSOCIATED LIGHTING CONTROLS. REMOVE BRANCH CIRCUITRY BACK TO SOURCE.
5. - DEMOLISH ALL ELECTRICAL LIGHTING FIXTURES AND ASSOCIATED LIGHTING CONTROLS. ASSOCIATED BRANCH CIRCUITRY SHALL REMAIN FOR RE-USE.
6. - EXISTING ELECTRICAL WIRING DEVICES, EQUIPMENT, AND SWITCHES ARE EXISTING TO REMAIN, UON.
7. - EXISTING ELECTRICAL LIGHTING FIXTURES AND ASSOCIATED LIGHTING CONTROLS ARE EXISTING TO REMAIN, UON.
8. - AREAS OF EXISTING ACOUSTICAL TILE AND GRID OR SPLINE CEILING TO BE DEMOLISHED AND REPLACED WITH NEW CEILING WHERE INDICATED ON ARCHITECTURAL PLANS TO ACCOMMODATE NEW WORK: DISCONNECT, REMOVE, AND SAFELY STORE AWAY EXISTING LOW VOLTAGE CEILING MOUNTED DEVICES, INCLUDING BUT NOT LIMITED TO, CAMERAS, WAPs, SMOKE DETECTORS, PROJECTORS, ETC. ELECTRICAL CONTRACTOR SHALL TEST EXISTING DEVICES TO CONFIRM PROPER OPERATION BEFORE REMOVAL. AFTER THE INSTALLATION OF THE NEW CEILINGS, ELECTRICAL CONTRACTOR SHALL CLEAN AND RECONNECT EXISTING LOW VOLTAGE CEILING MOUNTED DEVICES AND SHALL TEST EXISTING DEVICES TO CONFIRM PROPER OPERATION AFTER CONSTRUCTION. EXISTING CABLING/WIRING BRANCH CIRCUITRY SHALL BE SAFE-OFF AND REMAIN FOR RE-USE.
9. - AREAS OF EXISTING GYPSUM CEILING TO BE DEMOLISHED AND REPLACED WITH NEW CEILING WHERE INDICATED ON ARCHITECTURAL PLANS TO ACCOMMODATE NEW WORK: DISCONNECT, REMOVE, AND SAFELY STORE AWAY EXISTING LOW VOLTAGE CEILING MOUNTED DEVICES, INCLUDING BUT NOT LIMITED TO, CAMERAS, WAPs, SMOKE DETECTORS, PROJECTORS, ETC. ELECTRICAL CONTRACTOR SHALL TEST EXISTING DEVICES TO CONFIRM PROPER OPERATION BEFORE REMOVAL. AFTER THE INSTALLATION OF THE NEW CEILINGS, ELECTRICAL CONTRACTOR SHALL CLEAN AND RECONNECT EXISTING LOW VOLTAGE CEILING MOUNTED DEVICES AND SHALL TEST EXISTING DEVICES TO CONFIRM PROPER OPERATION AFTER CONSTRUCTION. EXISTING CABLING/WIRING BRANCH CIRCUITRY SHALL BE SAFE-OFF AND REMAIN FOR RE-USE.



1 NORTH

ELECTRICAL AREA C GROUND FLOOR DEMOLITION PLAN

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

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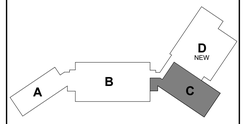
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KEY PLAN



PROJECT NORTH

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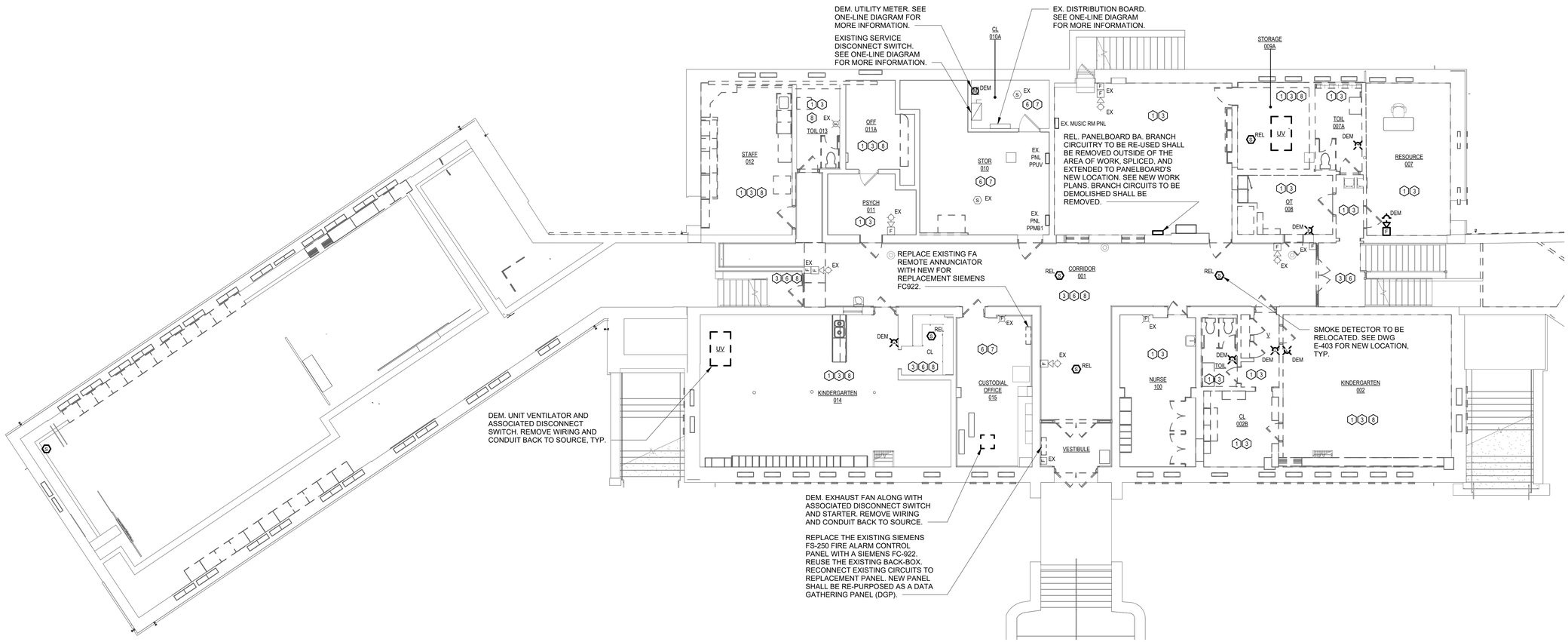
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SHEET TITLE

ELECTRICAL DEMOLITION PLANS (AREA C)

SHEET No.

E101



1 ELECTRICAL GROUND FLOOR DEMOLITION PLAN (AREAS A & B)

NORTH

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

DEMOLITION SCOPE OF WORK LEGEND:

1. - DEMOLISH ALL ELECTRICAL WIRING DEVICES, EQUIPMENT, AND SWITCHES. RECONFIGURE BRANCH CIRCUITRY/CABLE SO THAT EXISTING TO REMAIN ELECTRICAL DEVICES, LOCATED OUTSIDE AREA INDICATED, REMAIN OPERATIONAL
2. - DEMOLISH ALL ELECTRICAL WIRING DEVICES, DISTRIBUTION EQUIPMENT, SWITCHES, AND FIRE ALARM DEVICES. REMOVE ALL ASSOCIATED BRANCH CIRCUIT AND FEEDER CONDUITS, CONDUCTORS, CABLES, AND RACEWAYS BACK TO SOURCE.
3. - DEMOLISH ALL ELECTRICAL LIGHTING FIXTURES AND ASSOCIATED LIGHTING CONTROLS. RECONFIGURE BRANCH CIRCUITRY SO THAT EXISTING TO REMAIN ELECTRICAL LIGHTING FIXTURES AND LIGHTING CONTROLS REMAIN OPERATIONAL.
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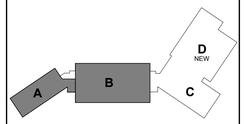
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KEY PLAN



PROJECT NORTH

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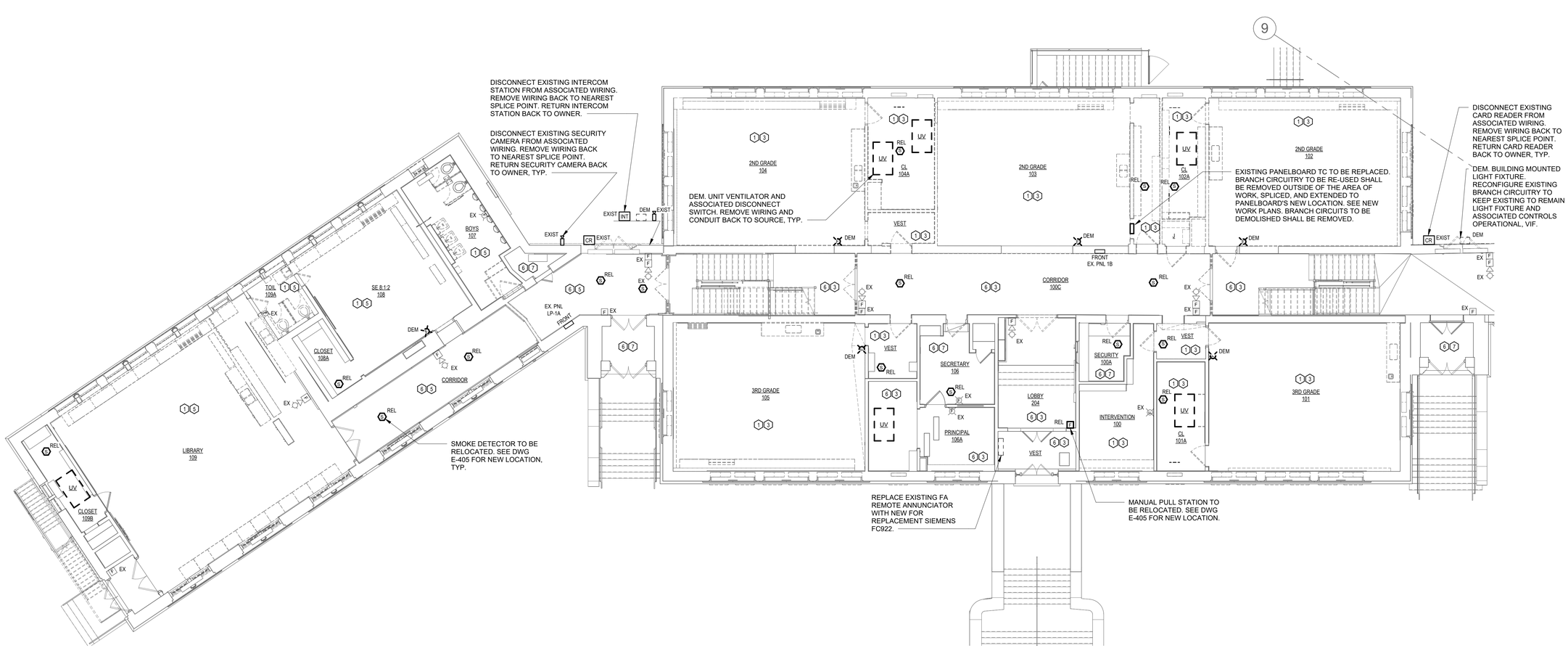
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SHEET TITLE
ELECTRICAL GROUND FLOOR DEMOLITION PLAN (AREAS A & B)

SHEET No.
E102



NORTH

ELECTRICAL 1ST FLOOR DEMOLITION PLAN (AREAS A & B)

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

DEMOLITION SCOPE OF WORK LEGEND:

1. - DEMOLISH ALL ELECTRICAL WIRING DEVICES, EQUIPMENT, AND SWITCHES. RECONFIGURE BRANCH CIRCUITRY/CABLE SO THAT EXISTING TO REMAIN ELECTRICAL DEVICES, LOCATED OUTSIDE AREA INDICATED, REMAIN OPERATIONAL
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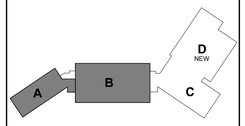
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KEY PLAN



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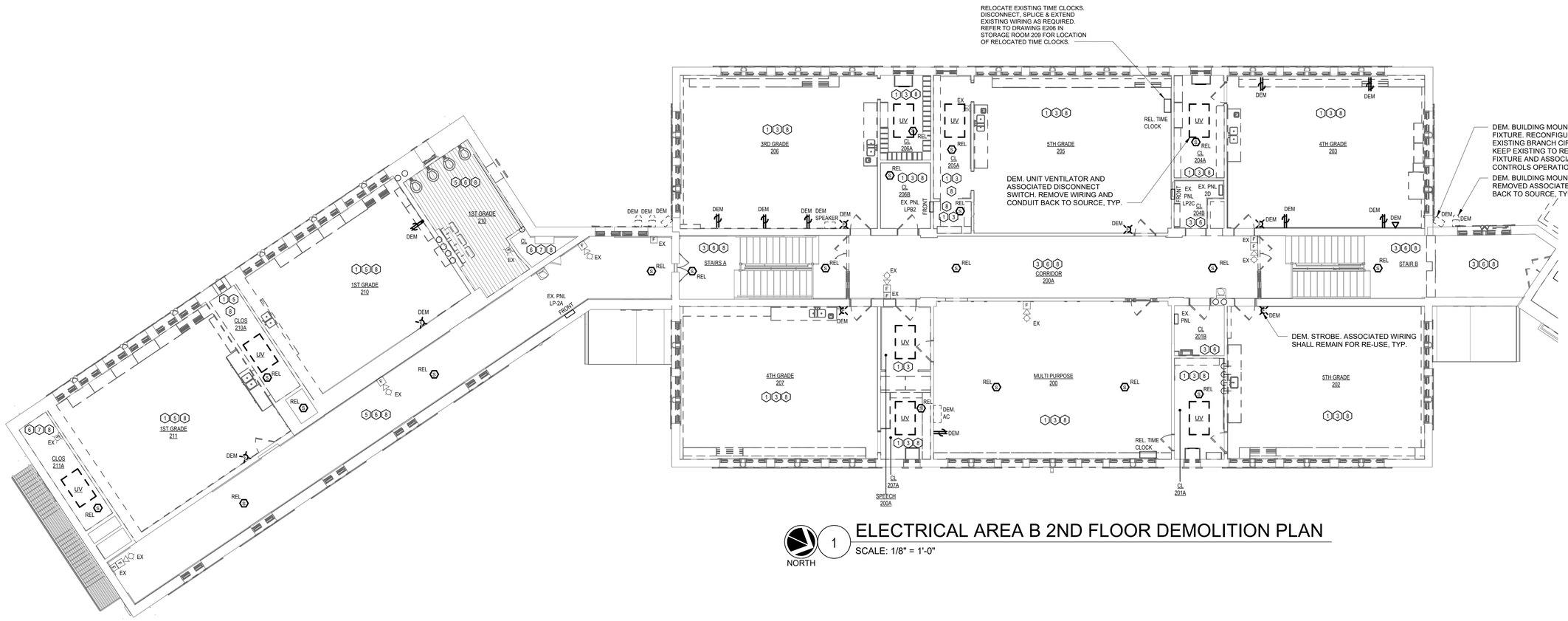
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SHEET TITLE
ELECTRICAL 1ST FLOOR DEMOLITION PLANS (AREAS A & B)

SHEET No.
E103



1 ELECTRICAL AREA B 2ND FLOOR DEMOLITION PLAN

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

DEMOLITION SCOPE OF WORK LEGEND:

1. - DEMOLISH ALL ELECTRICAL WIRING DEVICES, EQUIPMENT, AND SWITCHES. RECONFIGURE BRANCH CIRCUITRY/CABLE SO THAT EXISTING TO REMAIN ELECTRICAL DEVICES, LOCATED OUTSIDE AREA INDICATED, REMAIN OPERATIONAL
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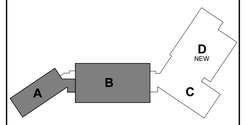
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KEY PLAN



PROJECT NORTH

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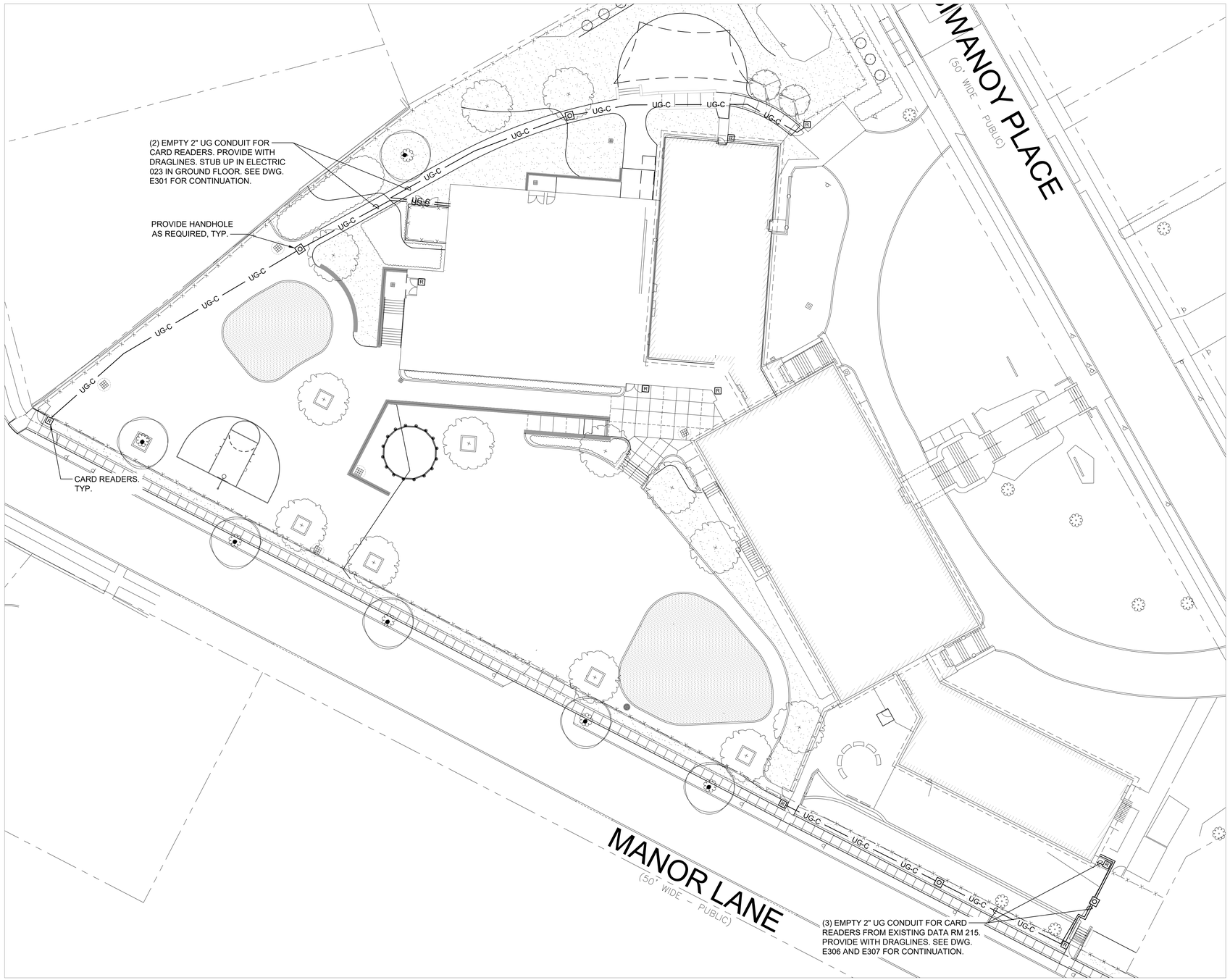
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SHEET TITLE
ELECTRICAL 2ND FLOOR DEMOLITION PLAN (AREAS A & B)

SHEET No.
E104

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1 ELECTRICAL SITE SECURITY PLAN
SCALE: 1" = 20'

NORTH

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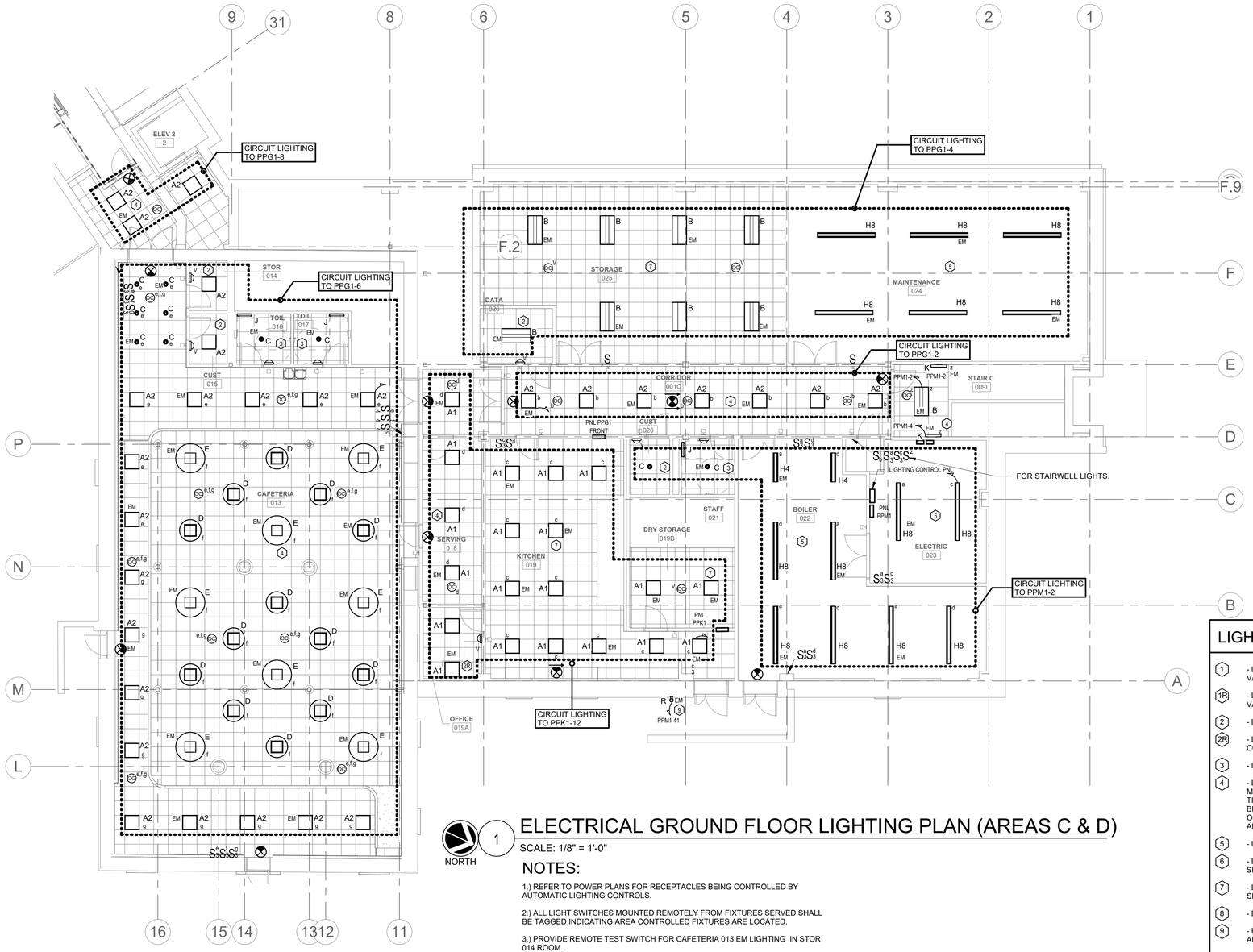
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SHEET TITLE
ELECTRICAL SITE SECURITY PLAN

SHEET No.
E110



1 NORTH

ELECTRICAL GROUND FLOOR LIGHTING PLAN (AREAS C & D)

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

NOTES:

1.) REFER TO POWER PLANS FOR RECEPTACLES BEING CONTROLLED BY AUTOMATIC LIGHTING CONTROLS.

2.) ALL LIGHT SWITCHES MOUNTED REMOTELY FROM FIXTURES SERVED SHALL BE TAGGED INDICATING AREA CONTROLLED FIXTURES ARE LOCATED.

3.) PROVIDE REMOTE TEST SWITCH FOR CAFETERIA 013 EM LIGHTING IN STOR 014 ROOM.

LIGHTING & RECEPTACLE CONTROL LEGEND:

1 - LOW VOLTAGE WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.

1R - LOW VOLTAGE WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR AND RECEPTACLE CONTROL. SEE NOTE #1.

2 - LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY VACANCY SENSOR.

2R - LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY VACANCY SENSOR AND RECEPTACLE CONTROL. SEE NOTE #1.

3 - LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY OCCUPANCY SENSOR.

4 - LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSORS WITH MANUAL OFF WALL SWITCHES AND AUTOMATIC TIMER. LIGHTS SHALL BE PROGRAMMED TO TIME ON AT START OF BUSINESS DAY. DURING BUSINESS HOURS, LIGHT FIXTURES SHALL BE DIMMED TO 50% MAX, WHILE SPACE IS UNOCCUPIED AND BECOME FULL BRIGHT WHEN OCCUPANCY IS DETECTED. AT END OF BUSINESS DAYS, LIGHT FIXTURES SHALL TIMEOUT AND SHUT OFF. UPON DETECTION OF OCCUPANCY, LIGHTS SHALL BECOME FULL BRIGHT.

5 - LINE VOLTAGE MANUAL WALL SWITCH.

6 - LOW VOLTAGE WALL SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.

7 - LOW VOLTAGE WALL SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.

8 - DAYLIGHT HARVESTING ZONE WITH PHOTOCELL SENSOR.

9 - EXTERIOR BUILDING MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH.

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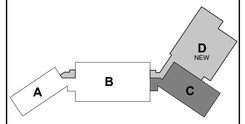
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KEY PLAN



PROJECT NORTH

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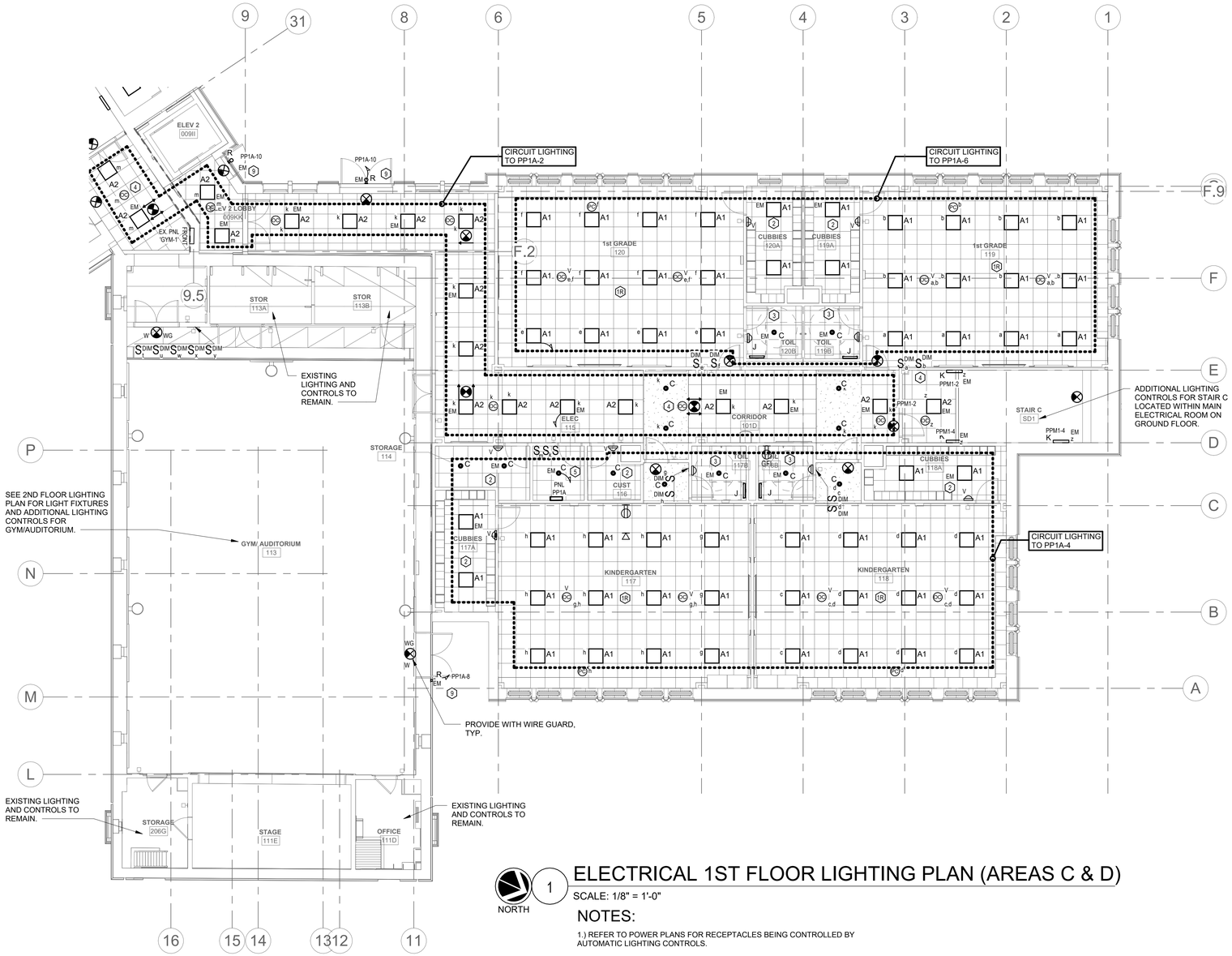
PROJECT No.
NKGD0292.00

SHEET TITLE

ELECTRICAL GROUND FLOOR LIGHTING PLAN (AREAS C & D)

SHEET No.

E201



NORTH

1 ELECTRICAL 1ST FLOOR LIGHTING PLAN (AREAS C & D)

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

NOTES:

1.) REFER TO POWER PLANS FOR RECEPTACLES BEING CONTROLLED BY AUTOMATIC LIGHTING CONTROLS.

2.) ALL LIGHT SWITCHES MOUNTED REMOTELY FROM FIXTURES SERVED SHALL BE TAGGED INDICATING AREA CONTROLLED FIXTURES ARE LOCATED.

3.) PROVIDE REMOTE TEST SWITCH FOR GYM/AUDITORIUM 113 EM LIGHTING IN STORAGE 113A.

LIGHTING & RECEPTACLE CONTROL LEGEND:

1	- LOW VOLTAGE WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
1R	- LOW VOLTAGE WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR AND RECEPTACLE CONTROL. SEE NOTE #1.
2	- LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY VACANCY SENSOR.
2R	- LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY VACANCY SENSOR AND RECEPTACLE CONTROL. SEE NOTE #1.
3	- LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY OCCUPANCY SENSOR.
4	- LOW VOLTAGE CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSORS WITH MANUAL OFF WALL SWITCHES AND AUTOMATIC TIMER. LIGHTS SHALL BE PROGRAMMED TO TIME ON AT START OF BUSINESS DAY. DURING BUSINESS HOURS, LIGHT FIXTURES SHALL BE DIMMED TO 50% MAX, WHILE SPACE IS UNOCCUPIED AND BECOME FULL BRIGHT WHEN OCCUPANCY IS DETECTED. AT END OF BUSINESS DAYS, LIGHT FIXTURES SHALL TIMEOUT AND SHUT OFF. UPON DETECTION OF OCCUPANCY, LIGHTS SHALL BECOME FULL BRIGHT.
5	- LINE VOLTAGE MANUAL WALL SWITCH.
6	- LOW VOLTAGE WALL SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY OCCUPANCY SENSOR.
7	- LOW VOLTAGE WALL SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
8	- DAYLIGHT HARVESTING ZONE WITH PHOTOCELL SENSOR.
9	- EXTERIOR BUILDING MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH.

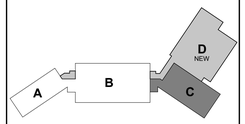
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KEY PLAN



PROJECT NORTH

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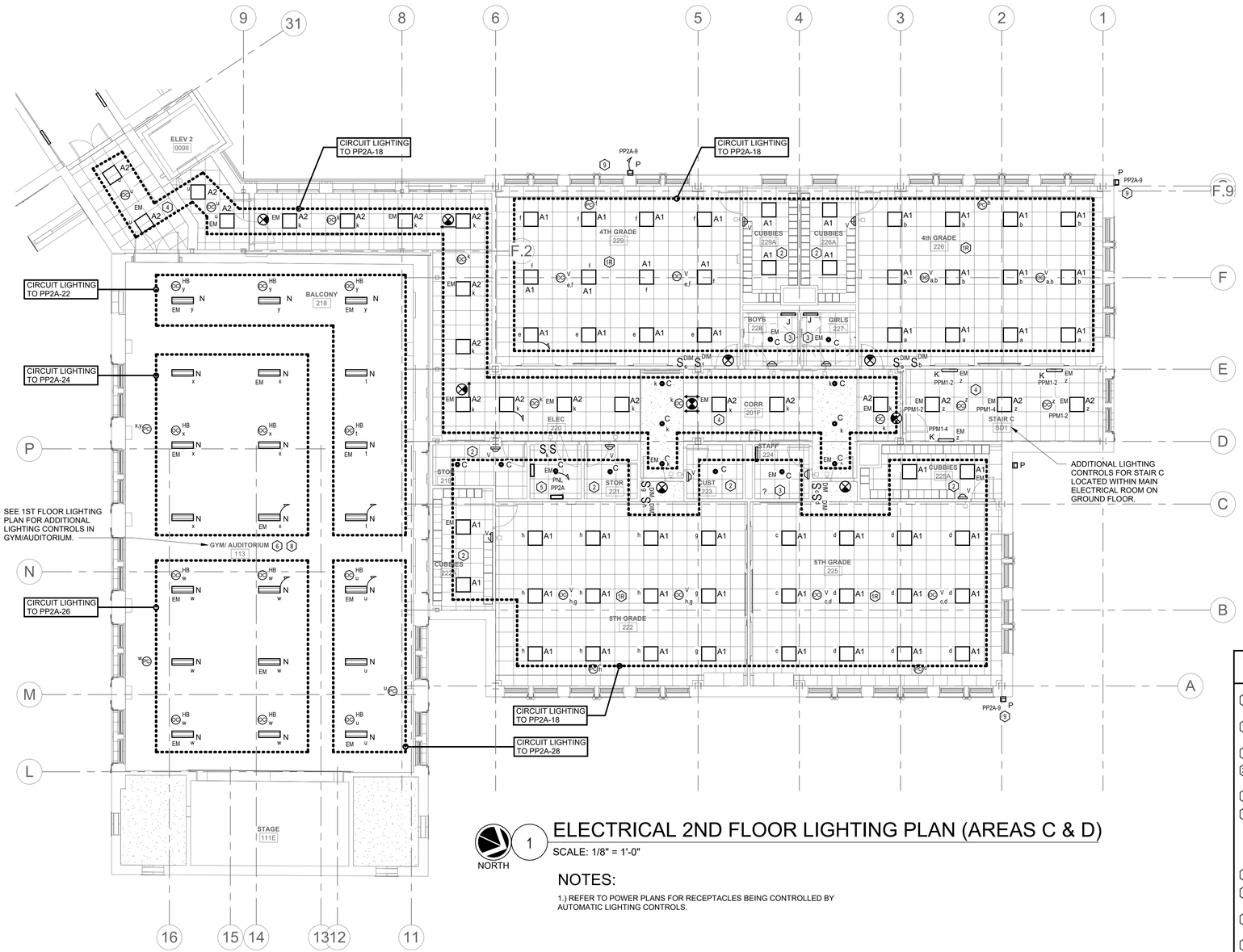
SHEET TITLE

ELECTRICAL 1ST FLOOR LIGHTING PLAN (AREAS C & D)

SHEET No.

E202

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NORTH

ELECTRICAL 2ND FLOOR LIGHTING PLAN (AREAS C & D)

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

NOTES:

1.) REFER TO POWER PLANS FOR RECEPTACLES BEING CONTROLLED BY AUTOMATIC LIGHTING CONTROLS.

LIGHTING & RECEPTACLE CONTROL LEGEND:

1	- LOW VOLTAGE WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
1R	- LOW VOLTAGE WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR AND RECEPTACLE CONTROL. SEE NOTE #1.
2	- LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY VACANCY SENSOR.
2R	- LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY VACANCY SENSOR AND RECEPTACLE CONTROL. SEE NOTE #1.
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7	- LOW VOLTAGE WALL SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
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9	- EXTERIOR BUILDING MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH.

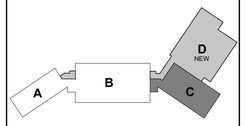
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KEY PLAN



PROJECT NORTH

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SHEET TITLE

ELECTRICAL 2ND FLOOR LIGHTING PLAN (AREAS C & D)

SHEET No.

E203

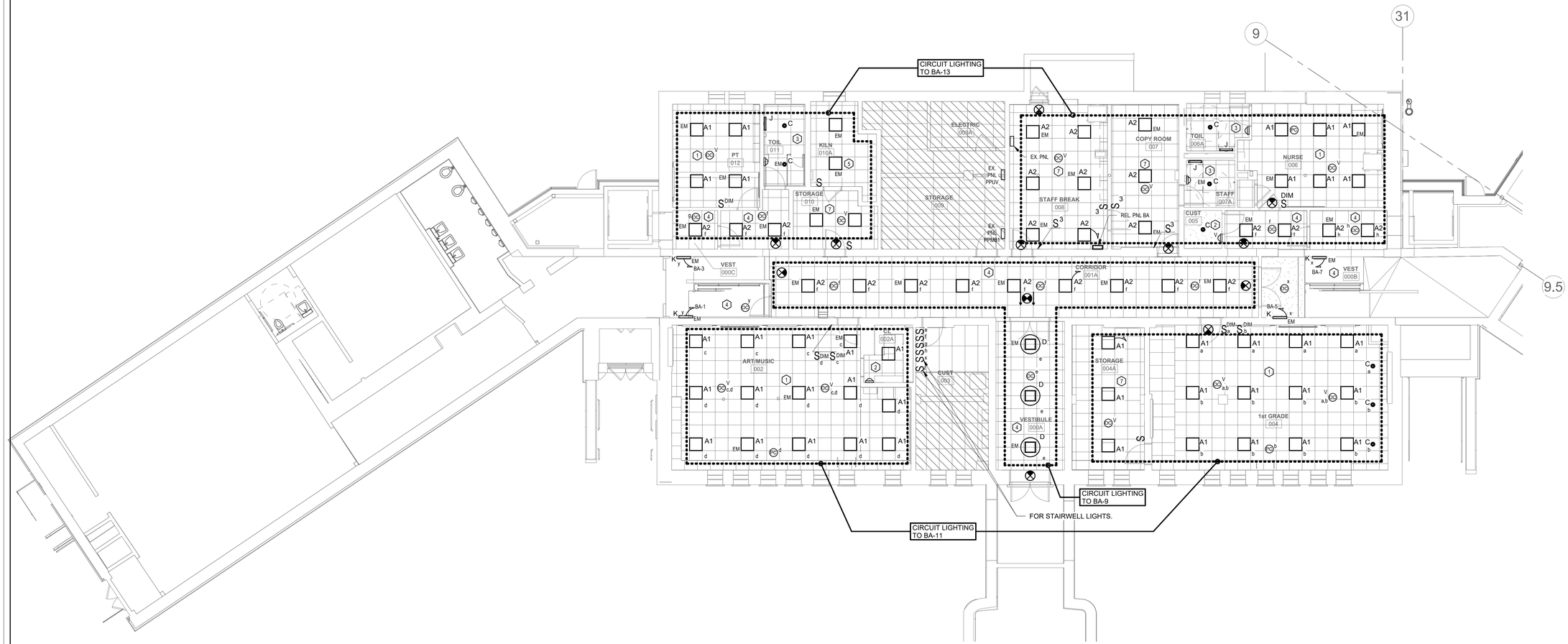
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LIGHTING & RECEPTACLE CONTROL LEGEND:

1	- LOW VOLTAGE WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
1R	- LOW VOLTAGE WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR AND RECEPTACLE CONTROL. SEE NOTE #1.
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8	- DAYLIGHT HARVESTING ZONE WITH PHOTOCELL SENSOR.
9	- EXTERIOR BUILDING MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH.

NOTES:

1.) REFER TO POWER PLANS FOR RECEPTACLES BEING CONTROLLED BY AUTOMATIC LIGHTING CONTROLS.



1 NORTH

ELECTRICAL GROUND FLOOR LIGHTING PLAN (AREA A & B)

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

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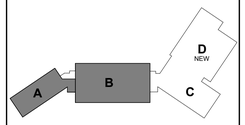
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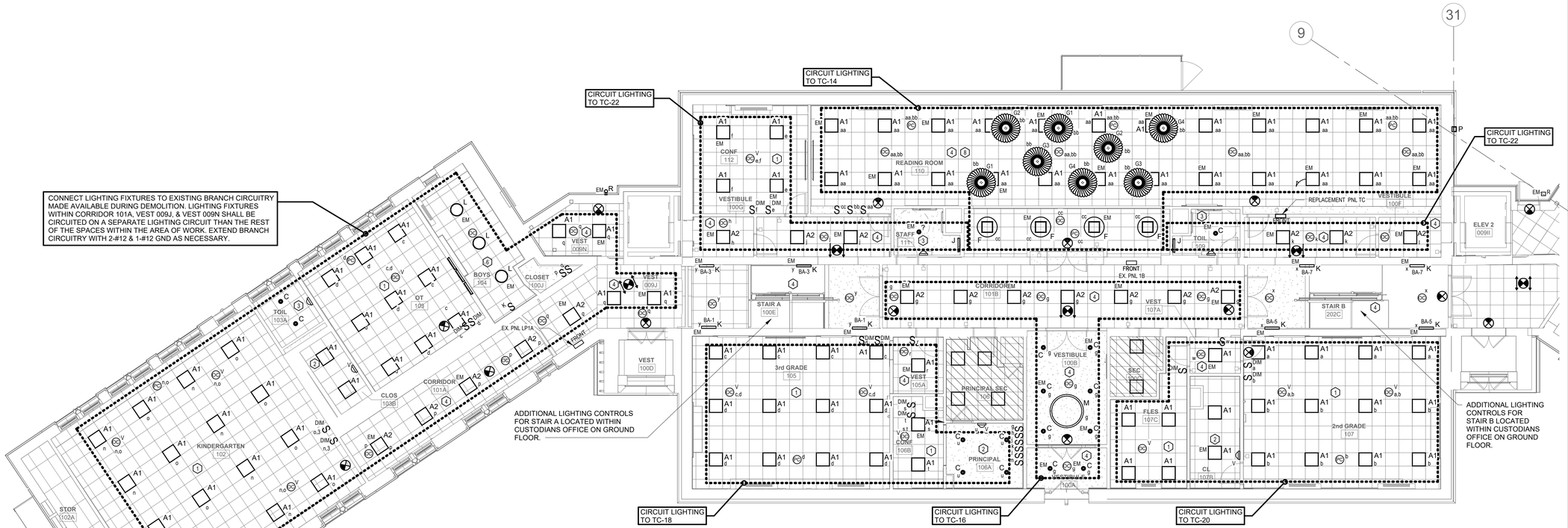
ELECTRICAL GROUND FLOOR LIGHTING PLAN (AREA A & B)

SHEET No.

E204

LIGHTING & RECEPTACLE CONTROL LEGEND:

1	- LOW VOLTAGE WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
1R	- LOW VOLTAGE WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR AND RECEPTACLE CONTROL. SEE NOTE #1.
2	- LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY VACANCY SENSOR.
2R	- LINE VOLTAGE WALL SWITCH DUAL TECHNOLOGY VACANCY SENSOR AND RECEPTACLE CONTROL. SEE NOTE #1.
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7	- LOW VOLTAGE WALL SWITCH WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
8	- DAYLIGHT HARVESTING ZONE WITH PHOTOCELL SENSOR.
9	- EXTERIOR BUILDING MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH.



1 ELECTRICAL 1ST FLOOR LIGHTING PLAN (AREAS A & B)

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

NOTES:

1.) REFER TO POWER PLANS FOR RECEPTACLES BEING CONTROLLED BY AUTOMATIC LIGHTING CONTROLS.

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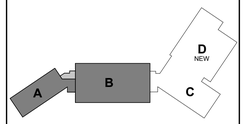
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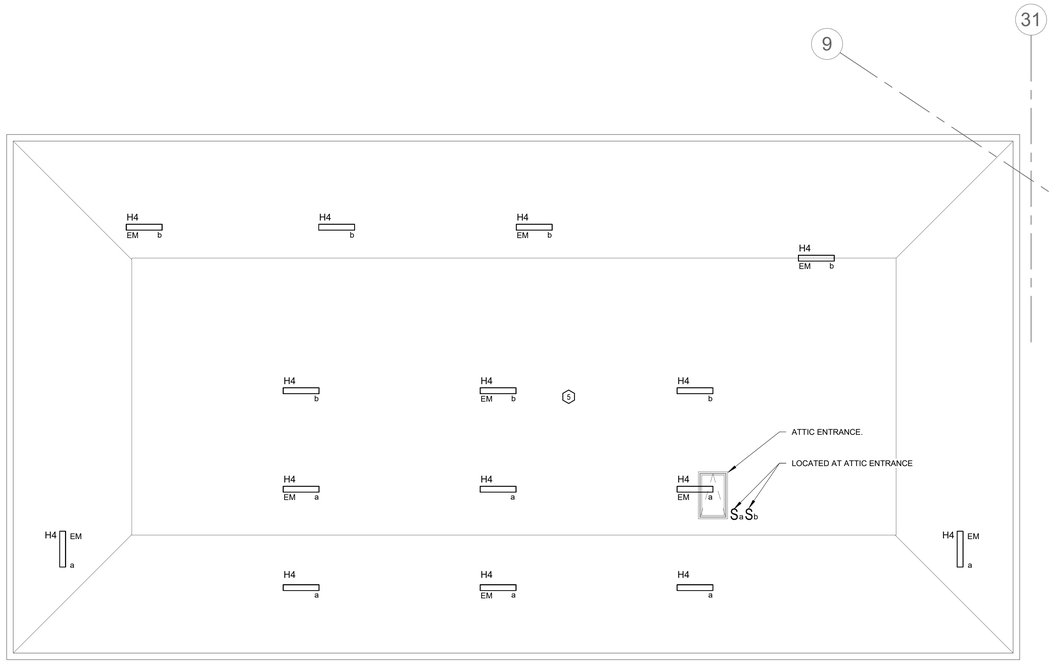
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SHEET TITLE

ELECTRICAL 1ST FLOOR LIGHTING PLAN (AREAS A & B)

SHEET No.

E205



ELECTRICAL ATTIC LIGHTING PLAN (AREA B)

NORTH 2

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

CIRCUITING NOTES:

1.) CIRCUIT LIGHTING WITHIN ATTIC TO PANELBOARD PPMA-19.

LIGHTING & RECEPTACLE CONTROL LEGEND:

1	- LOW VOLTAGE WALL SWITCH/DIMMER WITH CEILING MOUNTED DUAL TECHNOLOGY VACANCY SENSOR.
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9	- EXTERIOR BUILDING MOUNTED LIGHT FIXTURES ARE TO BE CONTROLLED VIA PHOTOCELL AND TIME CLOCK WITH MANUAL OVERRIDE SWITCH.

CONNECT LIGHTING FIXTURES TO EXISTING BRANCH CIRCUITRY MADE AVAILABLE DURING DEMOLITION. LIGHTING FIXTURES WITHIN CORRIDOR 200D & ROOM 001D SHALL BE CIRCUITED ON A SEPARATE LIGHTING CIRCUIT THAN THE REST OF THE SPACES WITHIN THE AREA OF WORK. EXTEND BRANCH CIRCUITRY WITH 2-#12 & 1-#12 GND AS NECESSARY.

ADDITIONAL LIGHTING CONTROLS FOR STAIR A LOCATED WITHIN CUSTODIANS OFFICE ON GROUND FLOOR.

ADDITIONAL LIGHTING CONTROLS FOR STAIR B LOCATED WITHIN CUSTODIANS OFFICE ON GROUND FLOOR.

RELOCATED TIME CLOCKS.

CIRCUIT LIGHTING TO LB-8

CIRCUIT LIGHTING TO LB-10

CIRCUIT LIGHTING TO LB-2

CIRCUIT LIGHTING TO LB-4

CIRCUIT LIGHTING TO LB-6

ELECTRICAL 2ND FLOOR LIGHTING PLAN (AREAS A & B)

NORTH 1

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

NOTES:

1.) REFER TO POWER PLANS FOR RECEPTACLES BEING CONTROLLED BY AUTOMATIC LIGHTING CONTROLS.

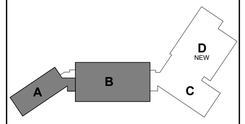
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KEY PLAN



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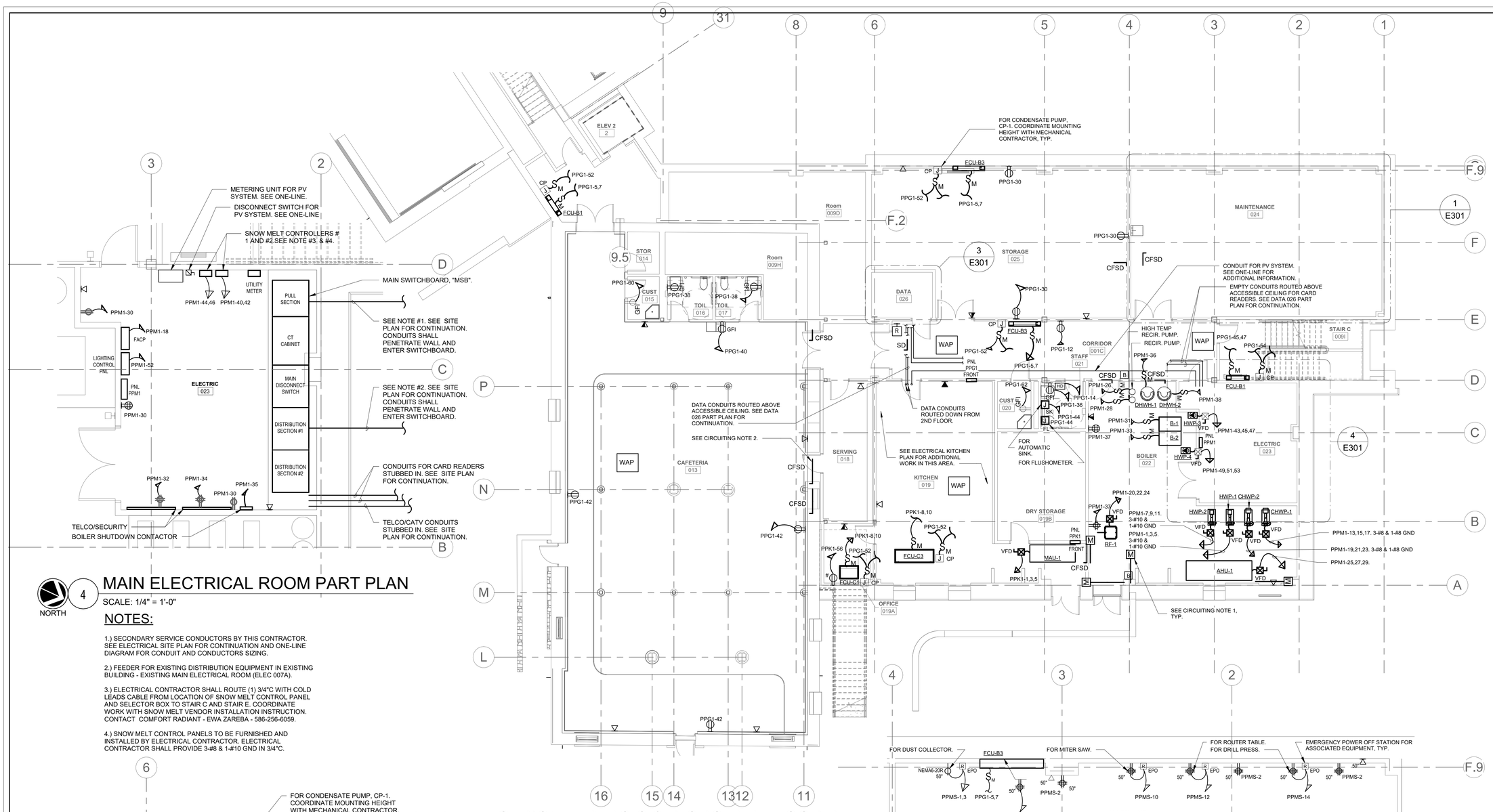
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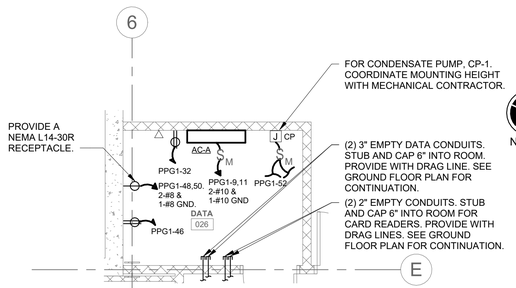
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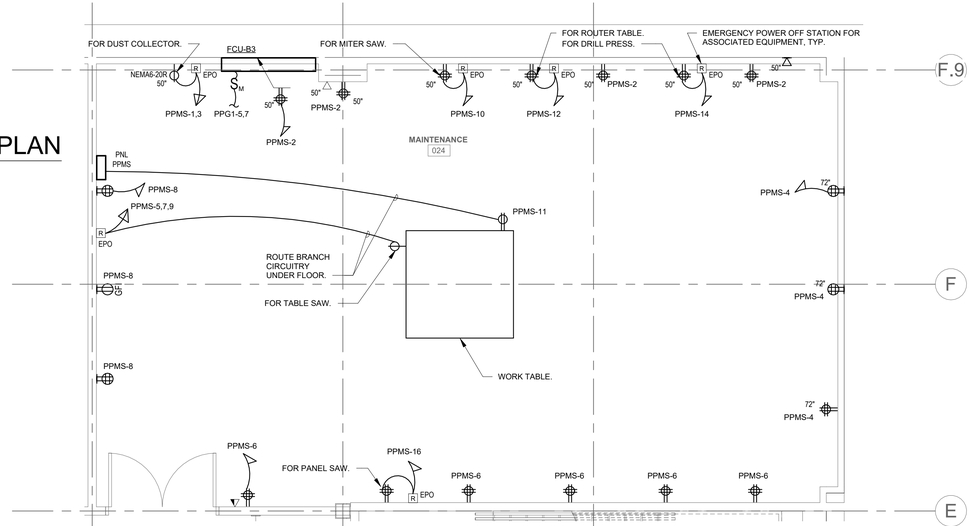
SHEET TITLE
ELECTRICAL 2ND FLOOR & ATTICLIGHTING PLAN (AREAS A & B)

SHEET No.
E206

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MAIN ELECTRICAL ROOM PART PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1.) SECONDARY SERVICE CONDUCTORS BY THIS CONTRACTOR. SEE ELECTRICAL SITE PLAN FOR CONTINUATION AND ONE-LINE DIAGRAM FOR CONDUIT AND CONDUCTORS SIZING.

2.) FEEDER FOR EXISTING DISTRIBUTION EQUIPMENT IN EXISTING BUILDING - EXISTING MAIN ELECTRICAL ROOM (ELEC 007A).

3.) ELECTRICAL CONTRACTOR SHALL ROUTE (1) 3/4"C WITH COLD LEADS CABLE FROM LOCATION OF SNOW MELT CONTROL PANEL AND SELECTOR BOX TO STAIR C AND STAIR E. COORDINATE WORK WITH SNOW MELT VENDOR INSTALLATION INSTRUCTION. CONTACT COMFORT RADIANT - EWA ZAREBA - 586-256-6059.

4.) SNOW MELT CONTROL PANELS TO BE FURNISHED AND INSTALLED BY ELECTRICAL CONTRACTOR. ELECTRICAL CONTRACTOR SHALL PROVIDE 3-#8 & 1-#10 GND IN 3/4"C.

DATA 026 PART PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1.) COORDINATE EXACT LOCATION OF ALL RECEPTACLES AND DATA OUTLET WITH LOW VOLTAGE VENDOR, UON.

ELECTRICAL AREAS C & D GROUND FLOOR PLAN

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

NOTES:

1.) ALL RECEPTACLES WITHIN OFFICES AND CLASSROOMS, LOCATED WITHIN BUILDING D, SHALL HAVE AUTOMATIC RECEPTACLE CONTROL. EACH RECEPTACLE SHALL BE SPLIT CONTROLLED, PROVIDED WITH THE TOP OF LEFT RECEPTACLES CONTROLLED. LOCAL OCCUPANCY SENSOR CONTROL SHALL TURN OFF RECEPTACLES WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.

2.) RECEPTACLES DESIGNATED BY '#' SHALL BE AUTOMATICALLY CONTROLLED RECEPTACLES.

3.) ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED IN ACCORDANCE WITH NFPA 70.

4.) SEE DRAWING E-200 FOR ASSOCIATED LIGHTING/RECEPTACLE CONTROL INFORMATION.

5.) COORDINATE MOUNTING HEIGHT OF ALL RECEPTACLES WITH ARCHITECT.

6.) REFER TO DETAILS FOR EMERGENCY POWER OFF (EPO) SHUTDOWN FOR EQUIPMENT REQUIRING SUCH IN MAINTENANCE 024. EQUIPMENT REQUIRING SHUTDOWN IS DESIGNATED WITH AN "EPO".

CIRCUITING NOTES:

1.) PROVIDE (1) 1P-20A CIRCUIT FOR MOTORIZED DAMPERS ON THE GROUND FLOOR (AREA C & D). UTILIZE CIRCUIT 8 FROM PANELBOARD PPM1.

2.) PROVIDE (1) 1P-20A CIRCUIT FOR CFSD's ON THE GROUND FLOOR (AREA C & D). UTILIZE CIRCUIT 10 FROM PANELBOARD PPG1.

3.) PROVIDE (2) 1P-20A CIRCUITS FOR MIXING VALVES ON THE GROUND FLOOR (AREA C&D). UTILIZE CIRCUITS 48 & 50 FROM PANELBOARD PPM1.

MAINTENANCE 024 PART PLAN

SCALE: 1/4" = 1'-0"

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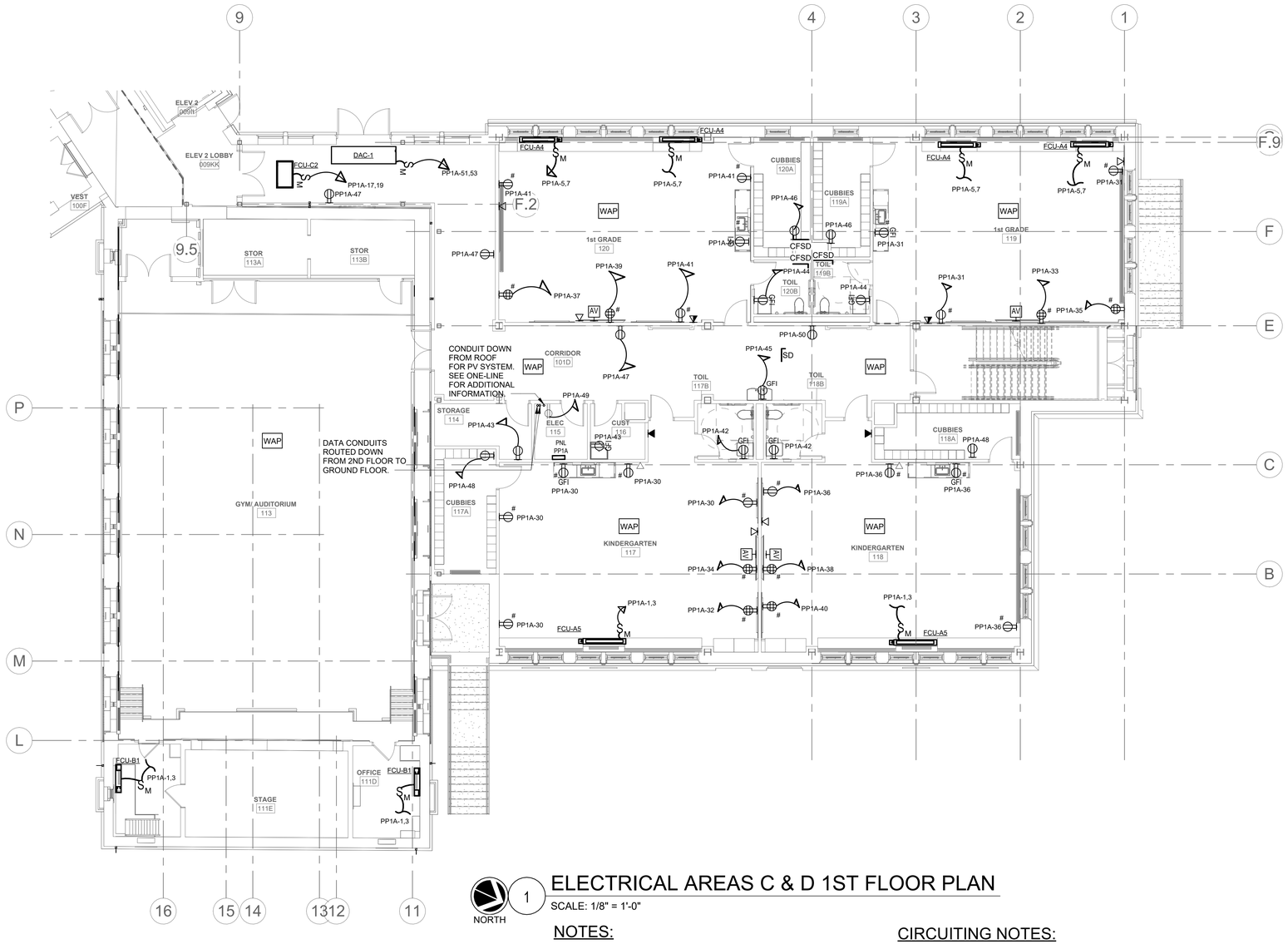
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SHEET TITLE
ELECTRICAL GROUND FLOOR PLAN (AREAS C & D)

SHEET No.
E301

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1 NORTH

ELECTRICAL AREAS C & D 1ST FLOOR PLAN

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

NOTES:

1.) ALL RECEPTACLES WITHIN OFFICES AND CLASSROOMS, LOCATED WITHIN BUILDING D, SHALL HAVE AUTOMATIC RECEPTACLE CONTROL. EACH RECEPTACLE SHALL BE SPLIT CONTROLLED, PROVIDED WITH THE TOP OF LEFT RECEPTACLES CONTROLLED. LOCAL OCCUPANCY SENSOR CONTROL SHALL TURN OFF RECEPTACLES WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.

2.) RECEPTACLES DESIGNATED BY '#' SHALL BE AUTOMATICALLY CONTROLLED RECEPTACLES.

3.) ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED IN ACCORDANCE WITH NFPA 70.

4.) SEE DRAWING E-200 FOR ASSOCIATED LIGHTING/RECEPTACLE CONTROL INFORMATION.

5.) COORDINATE MOUNTING HEIGHT OF ALL RECEPTACLES WITH ARCHITECT.

CIRCUITING NOTES:

1.) PROVIDE (1) 1P-20A CIRCUIT FOR CFSD's ON THE FIRST FLOOR (AREA C & D). UTILIZE CIRCUIT 56 FROM PANELBOARD PPG1.

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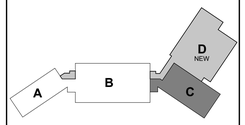
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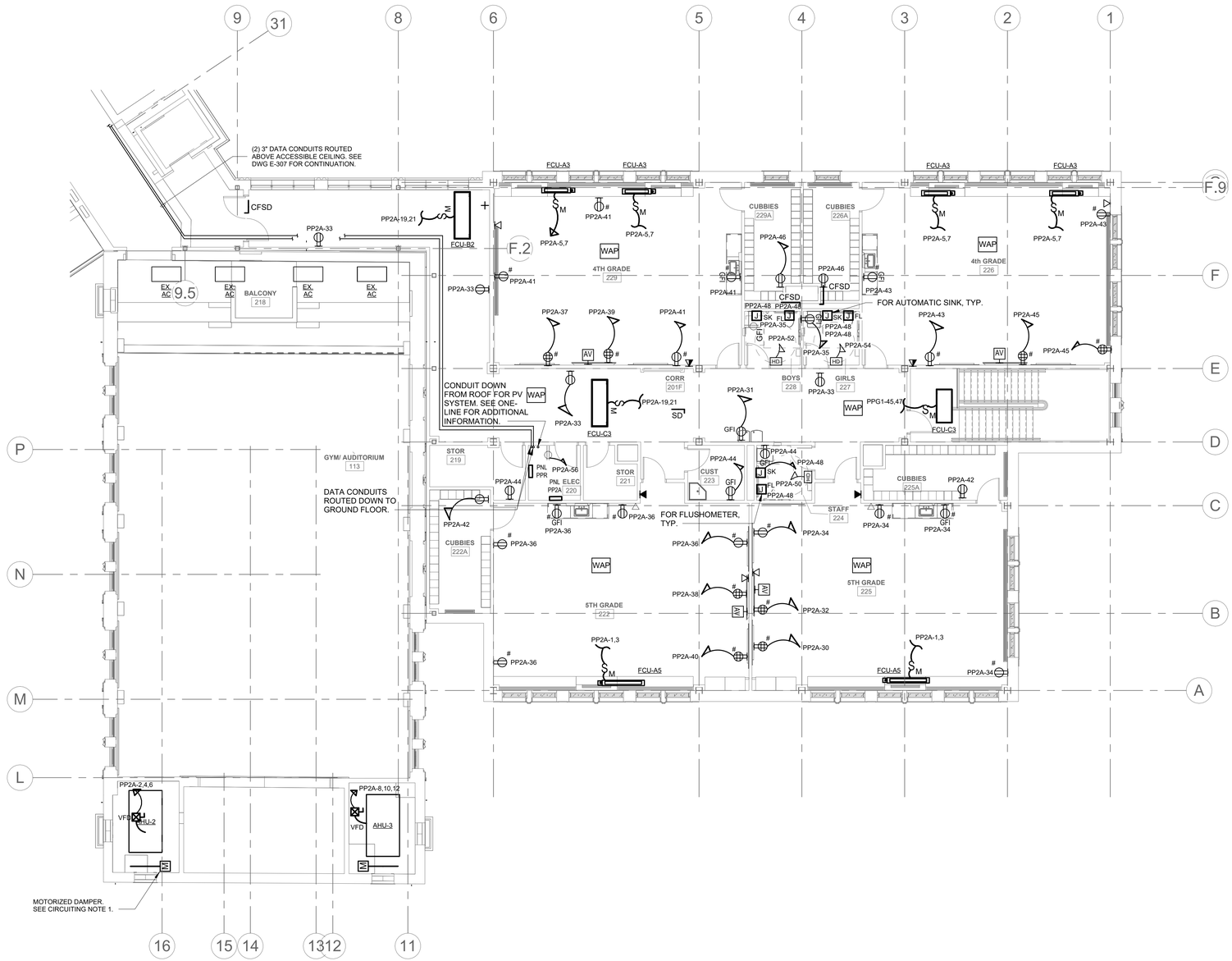
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SHEET TITLE

ELECTRICAL 1ST FLOOR PLAN (AREAS C & D)

SHEET No.

E302



ELECTRICAL AREAS C & D 2ND FLOOR PLAN

NORTH

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

NOTES:

1.) ALL RECEPTACLES WITHIN OFFICES AND CLASSROOMS, LOCATED WITHIN BUILDING D, SHALL HAVE AUTOMATIC RECEPTACLE CONTROL. EACH RECEPTACLE SHALL BE SPLIT CONTROLLED, PROVIDED WITH THE TOP OF LEFT RECEPTACLES CONTROLLED. LOCAL OCCUPANCY SENSOR CONTROL SHALL TURN OFF RECEPTACLES WITHIN 20 MINUTES OF ALL OCCUPANTS LEAVING THE SPACE.

2.) RECEPTACLES DESIGNATED BY '#' SHALL BE AUTOMATICALLY CONTROLLED RECEPTACLES.

3.) ALL CONTROLLED RECEPTACLES SHALL BE PERMANENTLY MARKED IN ACCORDANCE WITH NFPA 70.

4.) SEE DRAWING E-200 FOR ASSOCIATED LIGHTING/RECEPTACLE CONTROL INFORMATION.

5.) COORDINATE MOUNTING HEIGHT OF ALL RECEPTACLES WITH ARCHITECT.

CIRCUITING NOTES:

1.) PROVIDE (1) 1P-20A CIRCUIT FOR MOTORIZED DAMPERS ON THE 2ND FLOOR (AREA C & D). UTILIZE CIRCUIT 14 FROM PANELBOARD PP2A.

2.) PROVIDE (1) 1P-20A CIRCUIT FOR CFSD's ON THE SECOND FLOOR (AREA C & D). UTILIZE CIRCUIT 58 FROM PANELBOARD PPG1.

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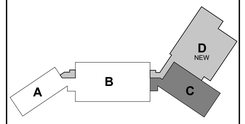
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SHEET TITLE

ELECTRICAL 2ND FLOOR PLAN (AREAS C & D)

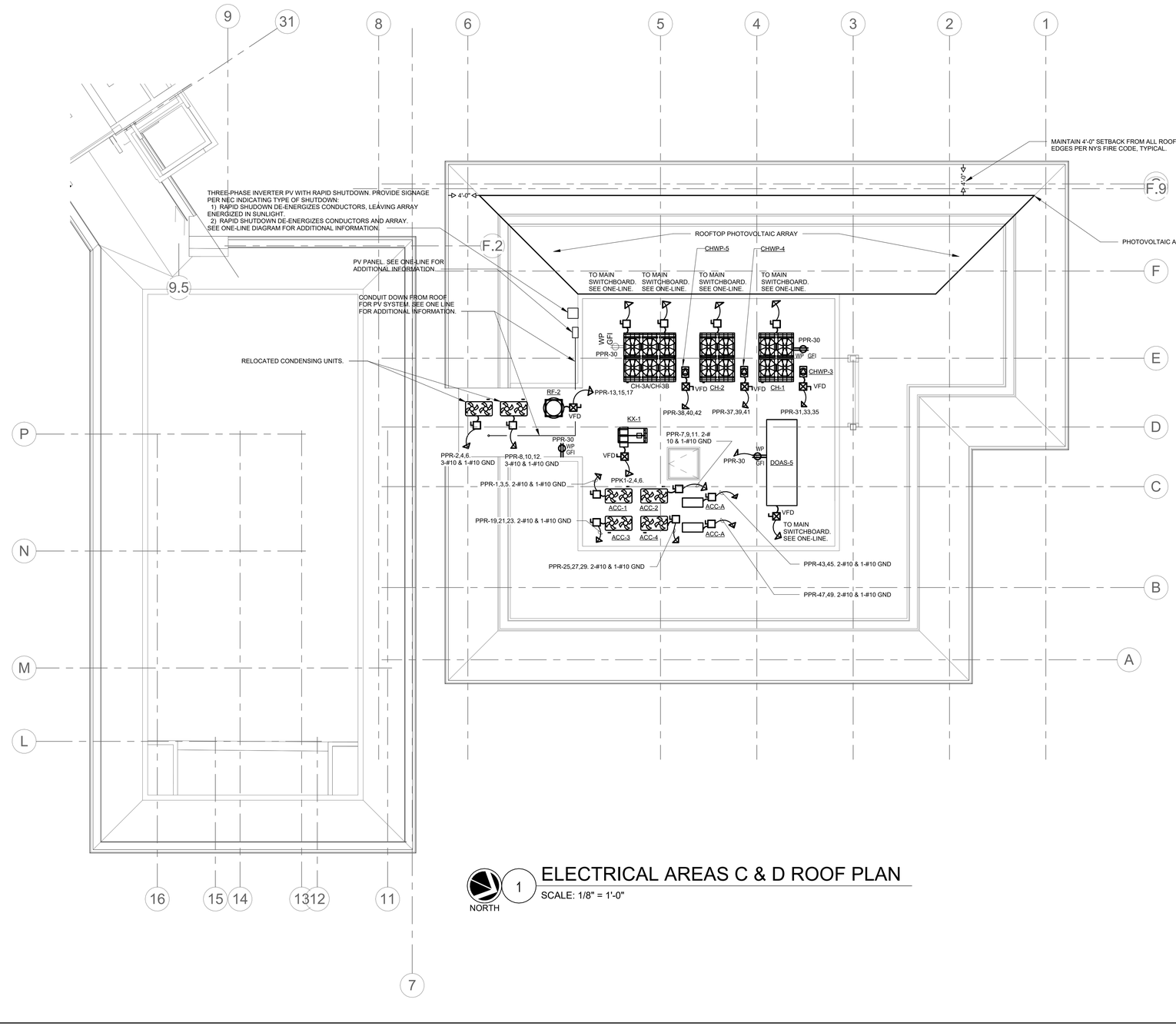
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E303

NOTES

1. PROVIDE ALL EQUIPMENT FOR A 12 kW DC ROOFTOP PHOTOVOLTAIC SYSTEM INCLUDING SOLAR PANELS, MOUNTING, DISCONNECT SWITCHES, INVERTERS, DISTRIBUTION/COLLECTION PANEL AND GENERATION METER. PROVIDE ALL WIRING AND CONDUIT TO SUPPORT SYSTEM AND INTEGRATE SYSTEM INTO ELECTRICAL UTILITY SERVICE. REFER TO ONE-LINE DIAGRAM ON E500 FOR ADDITIONAL INFORMATION REGARDING RV DISTRIBUTION SYSTEM.

1.1 BASIS OF DESIGN IS (25) YUKON N SERIES SEG-485-BTB-BG (485 WATTS PER MODULE)



NORTH 1 ELECTRICAL AREAS C & D ROOF PLAN

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

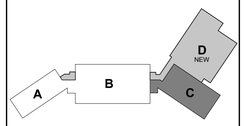
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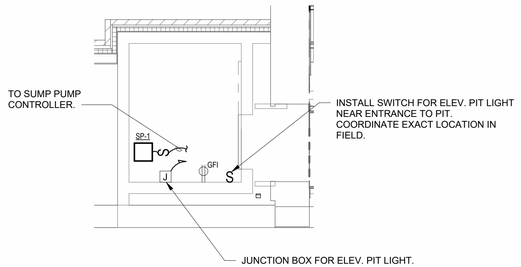
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ELECTRICAL ROOF PLAN (AREAS C & D)

SHEET No.

E304

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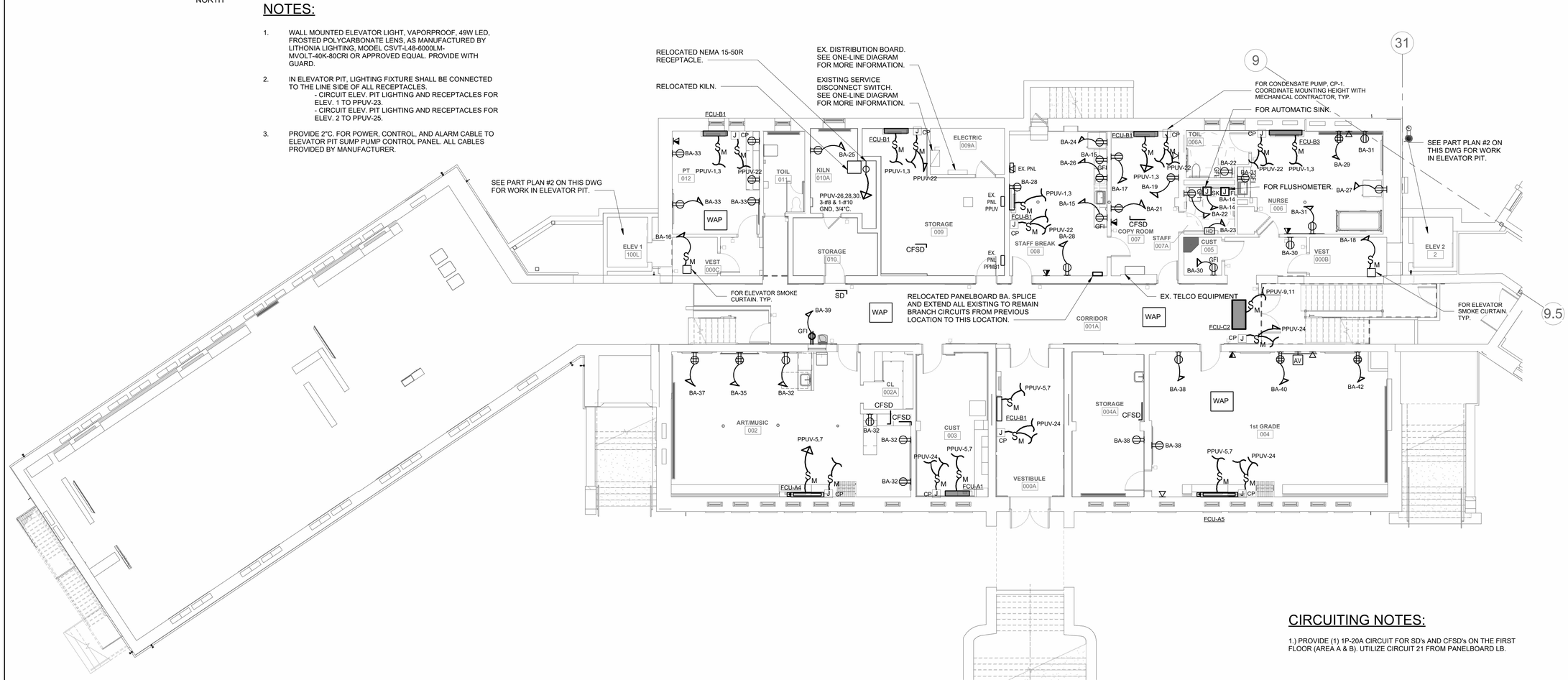
NORTH 2

TYPICAL ELEVATOR PIT PART PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. WALL MOUNTED ELEVATOR LIGHT, VAPORPROOF, 49W LED, FROSTED POLYCARBONATE LENS, AS MANUFACTURED BY LITHONIA LIGHTING, MODEL CSVT-L48-6000LM-MVOLT-40K-80CRI OR APPROVED EQUAL. PROVIDE WITH GUARD.
2. IN ELEVATOR PIT, LIGHTING FIXTURE SHALL BE CONNECTED TO THE LINE SIDE OF ALL RECEPTACLES.
   - CIRCUIT ELEV. PIT LIGHTING AND RECEPTACLES FOR ELEV. 1 TO PPUV-23.
   - CIRCUIT ELEV. PIT LIGHTING AND RECEPTACLES FOR ELEV. 2 TO PPUV-25.
3. PROVIDE 2"C. FOR POWER, CONTROL, AND ALARM CABLE TO ELEVATOR PIT SUMP PUMP CONTROL PANEL. ALL CABLES PROVIDED BY MANUFACTURER.



NORTH 1

ELECTRICAL AREA B GROUND FLOOR PLAN

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

NOTES:

1.) COORDINATE MOUNTING HEIGHT OF ALL RECEPTACLES WITH ARCHITECT.

CIRCUITING NOTES:

1.) PROVIDE (1) 1P-20A CIRCUIT FOR SD's AND CFSD's ON THE FIRST FLOOR (AREA A & B). UTILIZE CIRCUIT 21 FROM PANELBOARD LB.

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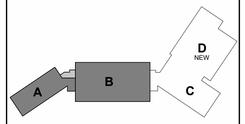
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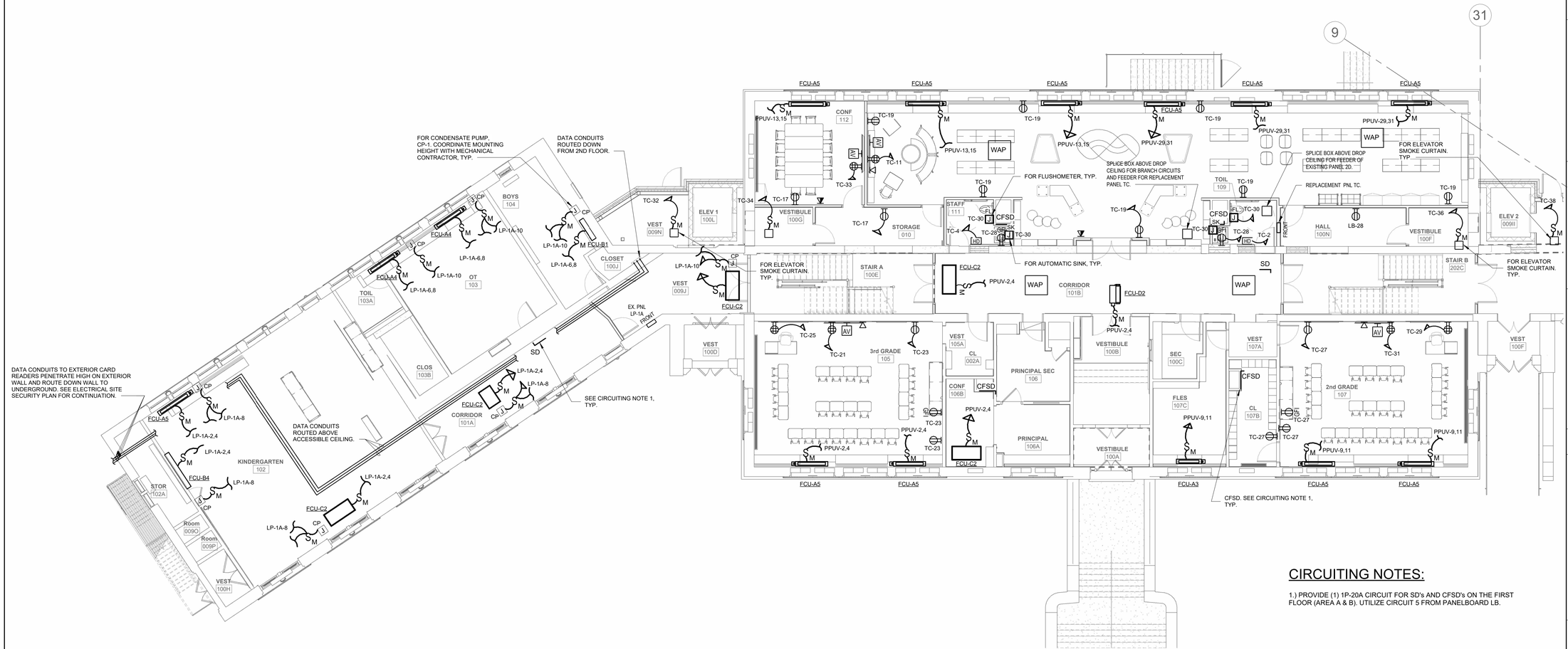
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NKGD0292.00

SHEET TITLE

ELECTRICAL GROUND PLAN (AREAS A & B)

SHEET No.

E305



CIRCUITING NOTES:

1.) PROVIDE (1) 1P-20A CIRCUIT FOR SD's AND CFSD's ON THE FIRST FLOOR (AREA A & B). UTILIZE CIRCUIT 5 FROM PANELBOARD LB.

NORTH

1 ELECTRICAL 1ST FLOOR PLAN (AREAS A & B)

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

NOTES:

1.) COORDINATE MOUNTING HEIGHT OF ALL RECEPTACLES WITH ARCHITECT.

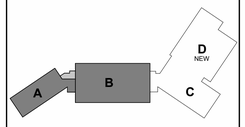
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West 38th Street, Suite 900, New York, NY 10018, 646-849-4110, neworkcity@olace.com
consulting engineers

KEY PLAN



PROJECT NORTH

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NYSED PROJECT CONTROL No.
66-16-01-03-0-004-014

DATE: 11/12/2026

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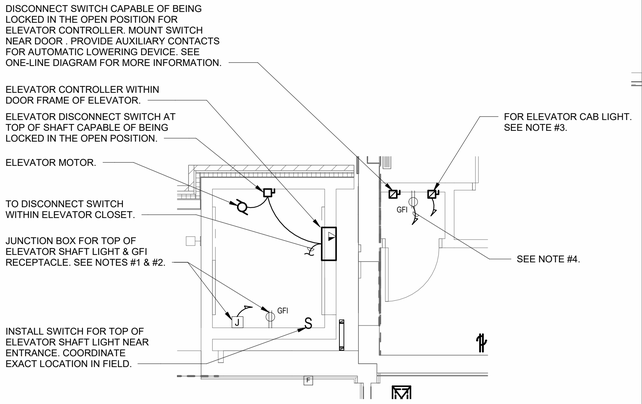
SHEET TITLE

ELECTRICAL 1ST FLOOR PLAN (AREAS A & B)

SHEET No.

E306

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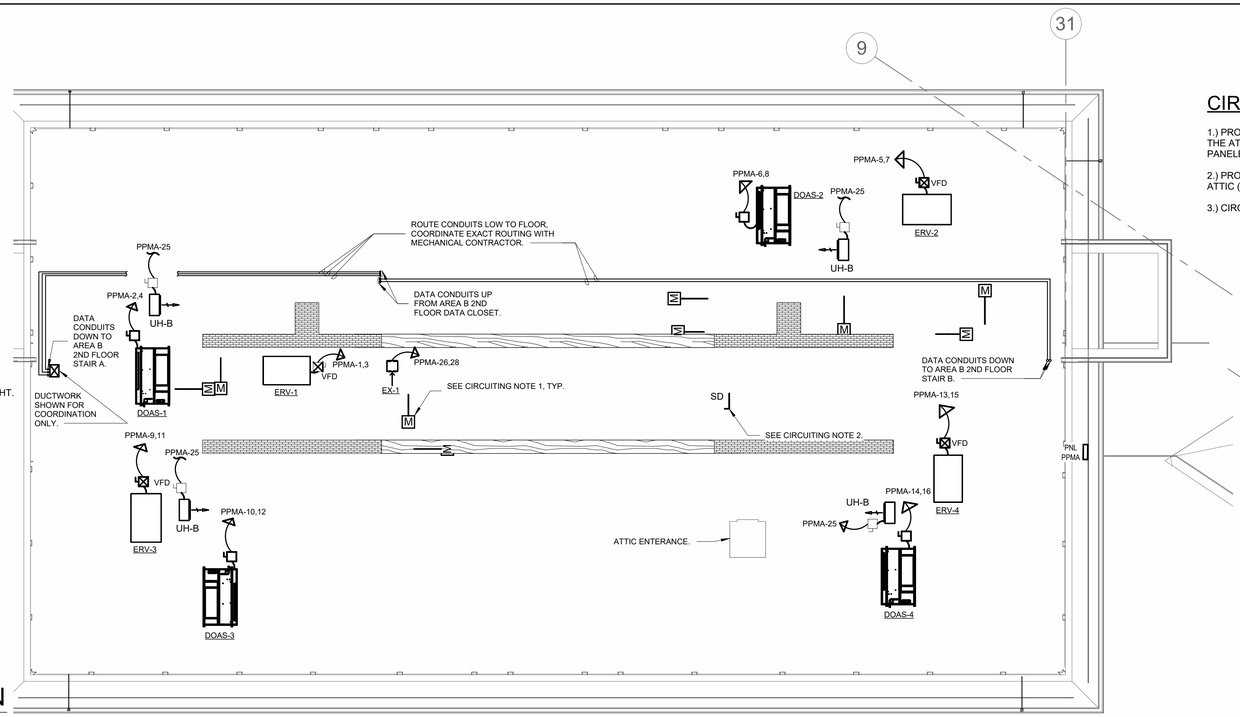
3 NORTH

TYPICAL TOP OF ELEVATOR SHAFT PART PLAN

SCALE: 1/4" = 1'-0"

NOTES:

1. WALL MOUNTED ELEVATOR LIGHT, VAPORPROOF, 49W LED, FROSTED POLYCARBONATE LENS, AS MANUFACTURED BY LITHONIA LIGHTING, MODEL CSVT-L48-6000LM-MVOLT-40K-80CRI OR APPROVED EQUAL. PROVIDE WITH GUARD.
2. AT TOP OF ELEVATOR SHAFT, LIGHTING FIXTURE SHALL BE CONNECTED TO THE LINE SIDE OF ALL RECEPTACLES.
   - CIRCUIT TOP OF ELEV. SHAFT LIGHTING AND RECEPTACLES FOR ELEV. 1 TO LB-14.
   - CIRCUIT TOP OF ELEV. SHAFT LIGHTING AND RECEPTACLES FOR ELEV. 2 TO LB-20.
3. 30AS/20AF, 240V, SINGLE PHASE, DISCONNECT SWITCH FOR ELEV. CAB LIGHT CAPABLE OF BEING LOCKED IN THE OPEN POSITION. MOUNT SWITCH NEAR DOOR.
   - CIRCUIT ELEV. 1 CAB LIGHT FROM LB-12.
   - CIRCUIT ELEV. 2 CAB LIGHT FROM LB-18.
4. GFI RECEPTACLE LOCATED WITHIN ROOM EE1 AND ROOM EE2.
   - CIRCUIT GFI RECEPTACLE FOR EE1 FROM LB-16.
   - CIRCUIT GFI RECEPTACLE FOR EE2 FROM LB-22.
5. PROVIDE A TWO WAY IN-CAR ELEVATOR COMMUNICATION SYSTEM.



CIRCUITING NOTES:

1.) PROVIDE (3) 1P-20A CIRCUIT FOR MOTORIZED DAMPERS IN THE ATTIC (AREA B). UTILIZE CIRCUITS 18, 20, 22 FROM PANELBOARD PPMA.

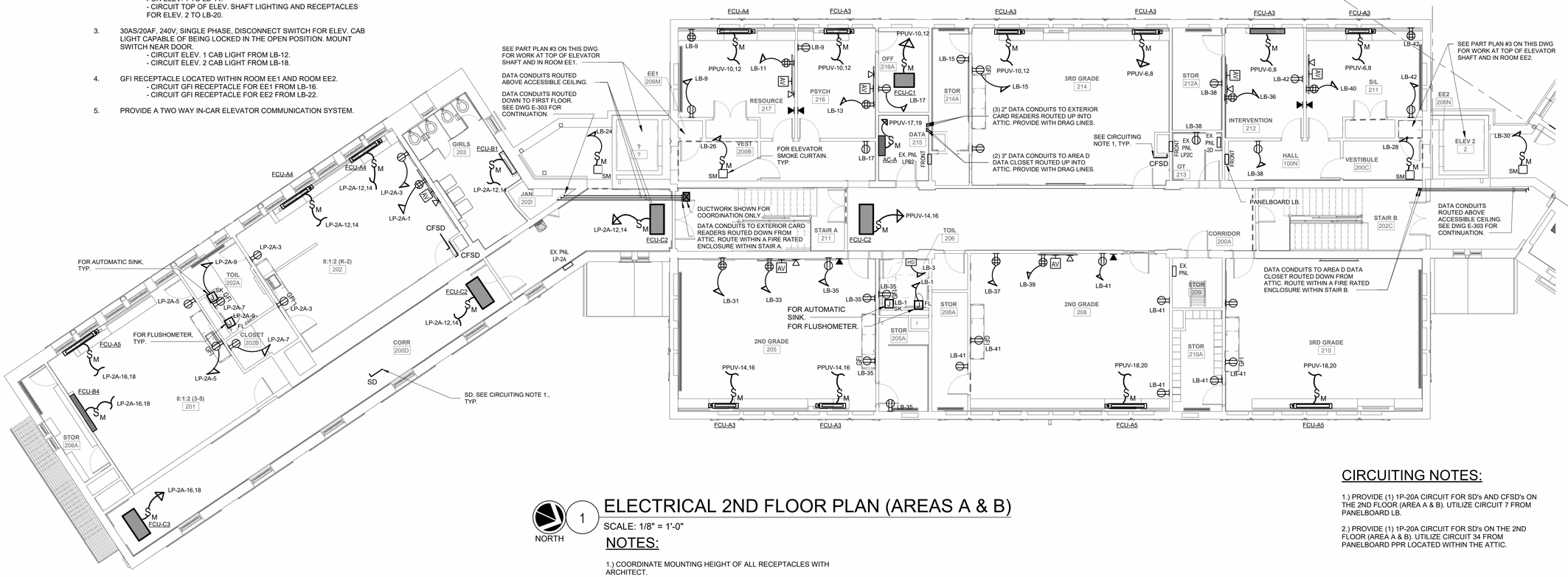
2.) PROVIDE (1) 1P-20A CIRCUIT FOR SMOKE DAMPERS IN THE ATTIC (AREA B). UTILIZE CIRCUIT 24 FROM PANELBOARD PPMA.

3.) CIRCUIT LIGHTING WITHIN ATTIC TO PANELBOARD PPMA-19.

2 NORTH

ELECTRICAL ATTIC PLAN (AREA B)

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



1 NORTH

ELECTRICAL 2ND FLOOR PLAN (AREAS A & B)

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

NOTES:

1.) COORDINATE MOUNTING HEIGHT OF ALL RECEPTACLES WITH ARCHITECT.

CIRCUITING NOTES:

1.) PROVIDE (1) 1P-20A CIRCUIT FOR SD's AND CFSD's ON THE 2ND FLOOR (AREA A & B). UTILIZE CIRCUIT 7 FROM PANELBOARD LB.

2.) PROVIDE (1) 1P-20A CIRCUIT FOR SD's ON THE 2ND FLOOR (AREA A & B). UTILIZE CIRCUIT 34 FROM PANELBOARD PPR LOCATED WITHIN THE ATTIC.

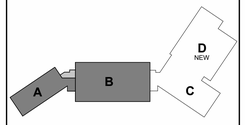
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SHEET TITLE

ELECTRICAL 2ND FLOOR & ATTIC PLAN (AREAS A & B)

SHEET No.

E307

11/10/2026 1:57:32 PM

KITCHEN EQUIPMENT SCHEDULE

ITEM NO	QTY	ITEM NAME	VOLTAGE	PHASE	AMPS	CYCLE	HP	KW	CONN AFF	CONN TYPE	NEMA	CB	CIRCUIT	WIRE SIZE	REMARKS
1	1	MILK COOLER	115	1	5.7	60	1/4		18"	CORD & PLUG	5-15P	1P-20A	PPK1-7	2-#12 & 1-#12 GND IN 3/4"C	
2	1	SERVING COUNTER	(2) 120	1	10 EA	60			18"	CORD & PLUG	5-15P	1P-20A	PPK1-9	2-#12 & 1-#12 GND IN 3/4"C	DUPLEX CONVENIENCE OUTLET ON BRACKET BELOW COUNTER
3	1	REFRIGERATED WELL, DROP-IN	120	1		60	1/4		18"	CORD & PLUG	5-15P	1P-20A	PPK1-11	2-#12 & 1-#12 GND IN 3/4"C	
4	1	HOT FOOD WELL UNIT, DROP-IN	120/208	1	16.0	60		3.84	18"	DIRECT		2P-20A	PPK1-13,15	3-#12 & 1-#12 GND IN 3/4"C	PROVIDE 30A, 240V DISCONNECT SWITCH.
5	1	SNEEZE GUARD, STATIONARY	120	1	1	60			18"	DIRECT		1P-20A	PPK1-14	2-#12 & 1-#12 GND IN 3/4"C	PROVIDE 30A, 120V DISCONNECT SWITCH.
	1	HEAT LAMP	120	1		60		1.1	18"	DIRECT		1P-20A	PPK1-14	2-#12 & 1-#12 GND IN 3/4"C	PROVIDE 30A, 120V DISCONNECT SWITCH.
7	1	POS TERMINAL	120	1	7	60			24"	CORD & PLUG	5-15P	1P-20A	PPK1-16	2-#12 & 1-#12 GND IN 3/4"C	PROVIDE CAT-5 DATA PORT
13	1	COUNTER W/SINK	120	1	15	60			12"	CORD & PLUG	5-15P	1P-20A	PPK1-18	2-#12 & 1-#12 GND IN 3/4"C	DUPLEX CONVENIENCE OUTLET ON BRACKET BELOW TABLE
15	1	EXHAUST HOOD, WALL MOUNTED	120	1	10	60			DFA	DIRECT		1P-20A	PPK1-17	2-#12 & 1-#12 GND IN 3/4"C	LIGHT SW. FACE HOOD
16	1	FIRE SUPPRESSION SYSTEM	120	1	20	60			DFA	DIRECT		1P-20A	PPK1-19	2-#12 & 1-#12 GND IN 3/4"C	PROVIDE 30A, 120V DISCONNECT SWITCH.
19	1	CONVECTION OVEN, DBL. GAS	(2) 115	1	6.0 EA	60	1/2		36" / 48"	CORD & PLUG	5-15P	(2) 1P-20A	PPK1-21/ PPK1-23	2-#12 & 1-#12 GND IN 3/4"C	
20	1	TILTING SKILLET BRAISING PAN, GAS	120	1	1.4	60			24"	CORD & PLUG	5-15P	1P-20A	PPK1-25	2-#12 & 1-#12 GND IN 3/4"C	
24	2	WALK IN COOLER/FREEZER	120	1	5	60			DFA	DIRECT		(2) 1P-20A	PPK1-20/ PPK1-22	2-#12 & 1-#12 GND IN 3/4"C	PROVIDE 30A, 120V DISCONNECT SWITCHES.
25	1	CONDENSING UNIT, AIR COOLED	208	3	8.5	60	1.25		36"	DIRECT		3P-20A	PPK1-24,26,28	3-#12 & 1-#12 GND IN 3/4"C	PROVIDE 30A, 240V DISCONNECT SWITCH.
26	1	EVAPORATOR COIL, MEDIUM TEMPERATURE	120	1	1.8	60			DFA	DIRECT		1P-15A	PPK1-27	2-#12 & 1-#12 GND IN 3/4"C	PROVIDE 30A, 120V DISCONNECT SWITCH.
27	1	CONDENSING UNIT, AIR COOLED	208	3	15.0	60	2		36"	DIRECT		3P-35A	PPK1-30,32,34	3-#10 & 1-#10 GND IN 3/4"C	PROVIDE 60A, 240V DISCONNECT SWITCH.
28	1	EVAPORATOR COIL, LOW TEMPERATURE	208	1	8.7	60			DFA	DIRECT		2P-20A	PPK1-29,31	2-#12 & 1-#12 GND IN 3/4"C	PROVIDE 30A, 240V DISCONNECT SWITCH.
31	2	REACH-IN REFRIDGERATOR	115	1	5.2	60	1/4		7'-0"	CORD & PLUG	5-15P	(2) 1P-20A	PPK1-33/ PPK1-35	2-#12 & 1-#12 GND IN 3/4"C	DUPLEX OUTLET ON UTILITY CHASE
32	1	TABLE W/2 SINKS	(2) 120	1	10 EA	60			4'-0"	CORD & PLUG	5-15P	(2) 1P-20A	PPK1-37/ PPK1-39	2-#12 & 1-#12 GND IN 3/4"C	DUPLEX CONVENIENCE OUTLET ON BRACKETS BELOW TABLE
38	1	WORK TABLE	(2) 120	1	10 EA	60			4'-0"	CORD & PLUG	5-15P	(2) 1P-20A	PPK1-36/ PPK1-38	2-#12 & 1-#12 GND IN 3/4"C	DUPLEX CONVENIENCE OUTLET ON WALL ABOVE SPLASH
42	1	AIR CURTAIN	115	1	12.5	60	1		7'-6"	DIRECT		1P-20A	PPK1-36	2-#12 & 1-#12 GND IN 3/4"C	INTERWIRE TO DOOR MAGNETIC SWITCH
44	1	ICE MAKER, CUBE-STYLE	115	1	9.05	60			5'-0"	DIRECT		1P-20A	PPK1-38	2-#12 & 1-#12 GND IN 3/4"C	FUTURE
45	2	MOBILE HEATED CABINET	120	1	19.1	60		2.292	6'-0"	CORD & PLUG	5-20P	(2) 1P-20A	PPK1-40/ PPK1-42	2-#12 & 1-#12 GND IN 3/4"C	OUTLET ON BRACKET AT ISLAND TABLE
46	1	OFFICE COMPUTER	120	1	5	60			24"	CORD & PLUG	5-15P	1P-20A	PPK1-44	2-#12 & 1-#12 GND IN 3/4"C	PROVIDE DATA
50	1	CONVECTION OVEN, ELECTRIC	208	3	34.0	60		11.0	5'-0"	DIRECT		3P-40A	PPK1-41,43,45	3-#6 & 1-#10 GND IN 3/4"C	FUTURE
51	1	TILTING SKILLET BRAISING PAN, ELECTRIC	208	3	33.3	60		12.0	4'-0"	DIRECT		3P-40A	PPK1-44,46,48	3-#6 & 1-#10 GND IN 3/4"C	FUTURE
52	1	HD RANGE, 36", 6 COIL BURNERS	208	3	62.0	60		19.1	4'-0"	DIRECT		3P-80A	PPK1-47,49,51	3-#6 & 1-#8 GND IN 3/4"C	FUTURE
53	1	HOTPLATE, COUNTERTOP, ELECTRIC	208	3	22.0	60		5.2	4'-0"	DIRECT		3P-30A	PPK1-50,52,54	3-#10 & 1-#10 GND IN 3/4"C	FUTURE
900		DUPLEX CONVENIENCE OUTLET	120	1	15.0	60			18"	GFI RECP	5-20P	1P-20A	PPK1-53, PPK1-55, PPK1-57	2-#12 & 1-#12 GND IN 3/4"C	

NOTES:

1.) COORDINATE ALL ELECTRICAL EQUIPMENT REQUIREMENTS, LOCATIONS, VOLTAGE, PHASE, CONNECTIONS, HEIGHTS, ETC WITH KITCHEN SPECIFICATIONS.
2.) ALL 120V, 15A OR 20A RECEPTACLES SHALL BE GFI RECEPTACLES.

NOTES:

1.) ELECTRICAL CONTRACTOR SHALL ROUTE BRANCH CIRCUITS FOR KX-1 AND MAU-1 VIA HOOD CONTROL PANEL. THE HOOD CONTROL PANEL CONTAINS TERMINAL BLOCKS AND VFD'S AND SHALL CONTROL KX-1, KX-2, MAU-1, HOOD LIGHTS AND ANSUL SYSTEM. PROVIDE A 3P-20A CB WITH 3-#12 & 1-#12 GND FOR HOOD CONTROL PANEL. COORDINATE WITH KITCHEN CONSULTANT DETAILS.

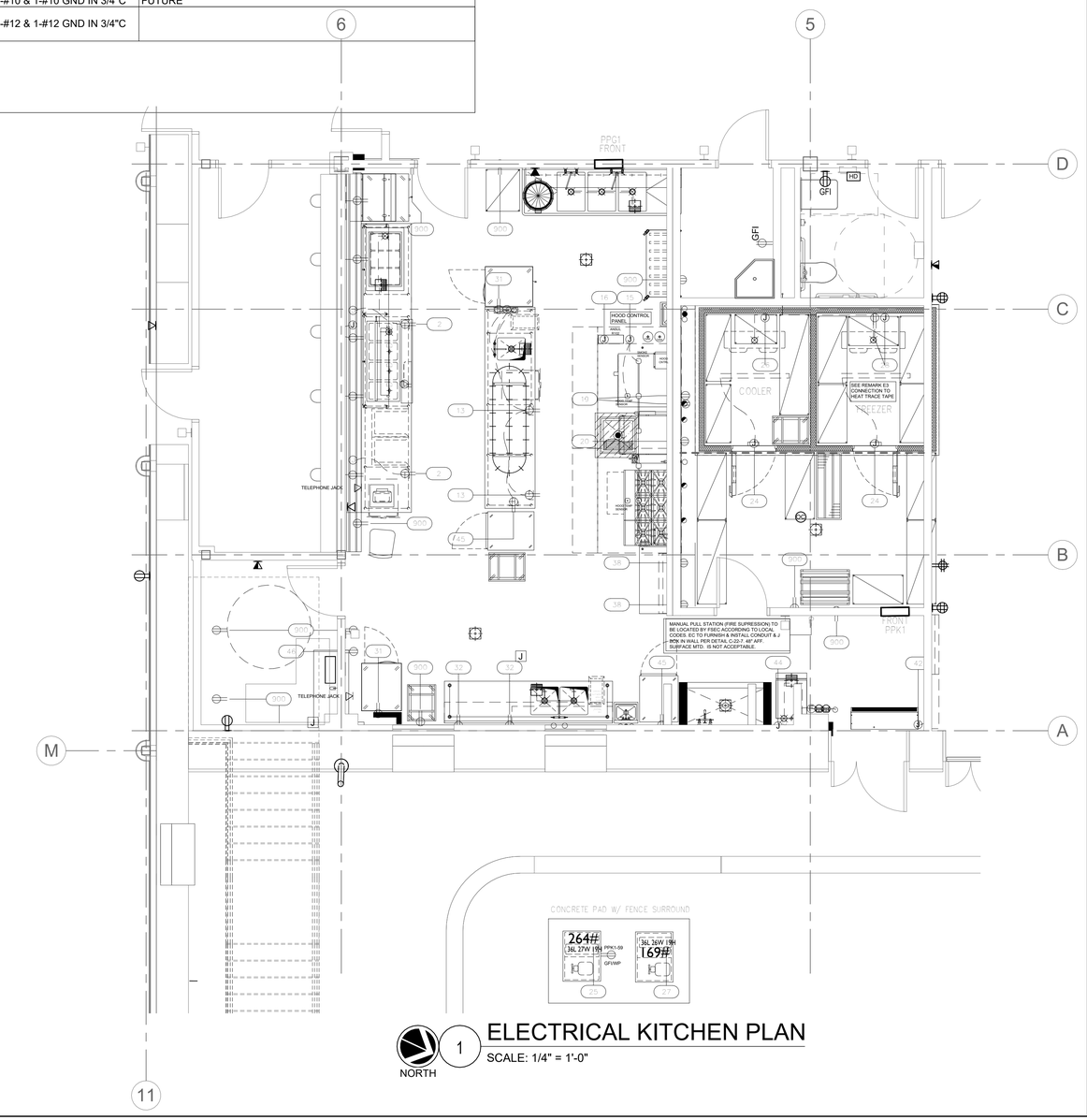
PANELBOARD PPK1

MAIN RATING: 400A MAIN C.B.: 400A KAIC RATING: 22KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: RECESSED

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1							2
3	MAU-1	15	3	3	25	KX-1	4
5							6
7	MILK COOLER	20	1				8
9	SERVING COUNTER	20	1	2	15	KITCHEN FCU-C3	10
11	REFRIGERATED WELL, DROP-IN	20	1	1	20	RM. 018,019,019A,019B LGTS	12
13	HOT FOOD WELL UNIT, DROP-IN	20	2	1	20	SNEEZING GUARD/HEAT LAMP	14
15				1	20	POS TERMINAL	16
17	EXHAUST HOOD	20	1	1	20	COUNTER W/SINK	18
19	FIRE SUPPRESSION SYSTEM	20	1	1	20	WALK IN COOLER/FREEZER	20
21	CONVECTION OVEN, DBL. GAS	20	1	1	20	WALK IN COOLER/FREEZER	22
23	CONVECTION OVEN, DBL. GAS	20	1				24
25	TILTING SKILLET BRAISING PAN, GAS	20	1	3	20	CONDENSING UNIT, AIR COOLED	26
27	EVAPORATOR COIL, MEDIUM TEMPERATURE	15	1				28
29	EVAPORATOR COIL, LOW TEMPERATURE	15	2				30
31				3	35	CONDENSING UNIT, AIR COOLED	32
33	REACH-IN REFRIDGERATOR	20	1				34
35	REACH-IN REFRIDGERATOR	20	1	1	20	AIR CURTAIN	36
37	TABLE W/2 SINKS	20	1	1	20	ICE MAKER, CUBE-STYLE	38
39	TABLE W/2 SINKS	20	1	1	20	MOBILE HEATED CABINET	40
41	CONVECTION OVEN, ELECTRIC	40	3	1	20	MOBILE HEATED CABINET	42
43				3	40	TILTING SKILLET BRAISING PAN, ELECTRIC	44
45							46
47	HD RANGE, 36", 6 COIL BURNERS	80	3				48
49				3	30	HOTPLATE, COUNTERTOP, ELECTRIC	50
51							52
53	CONV. RECEPT.	20	1				54
55	CONV. RECEPT.	20	1	1	20	OFFICE RECEPT.	56
57	CONV. RECEPT.	20	1	1	20	SPARE	58
59	GFI REC ON KITCHEN AIR COOLED CONDENSING UNIT	20	1	1	20	SPARE	60
61	SPARE	20	1	1	20	SPARE	62
63	SPARE	20	1	1	20	SPARE	64
65	SPARE	20	1	1	20	SPARE	66

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.



1 ELECTRICAL KITCHEN PLAN

SCALE: 1/4" = 1'-0"

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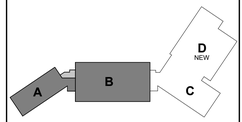
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KEY PLAN



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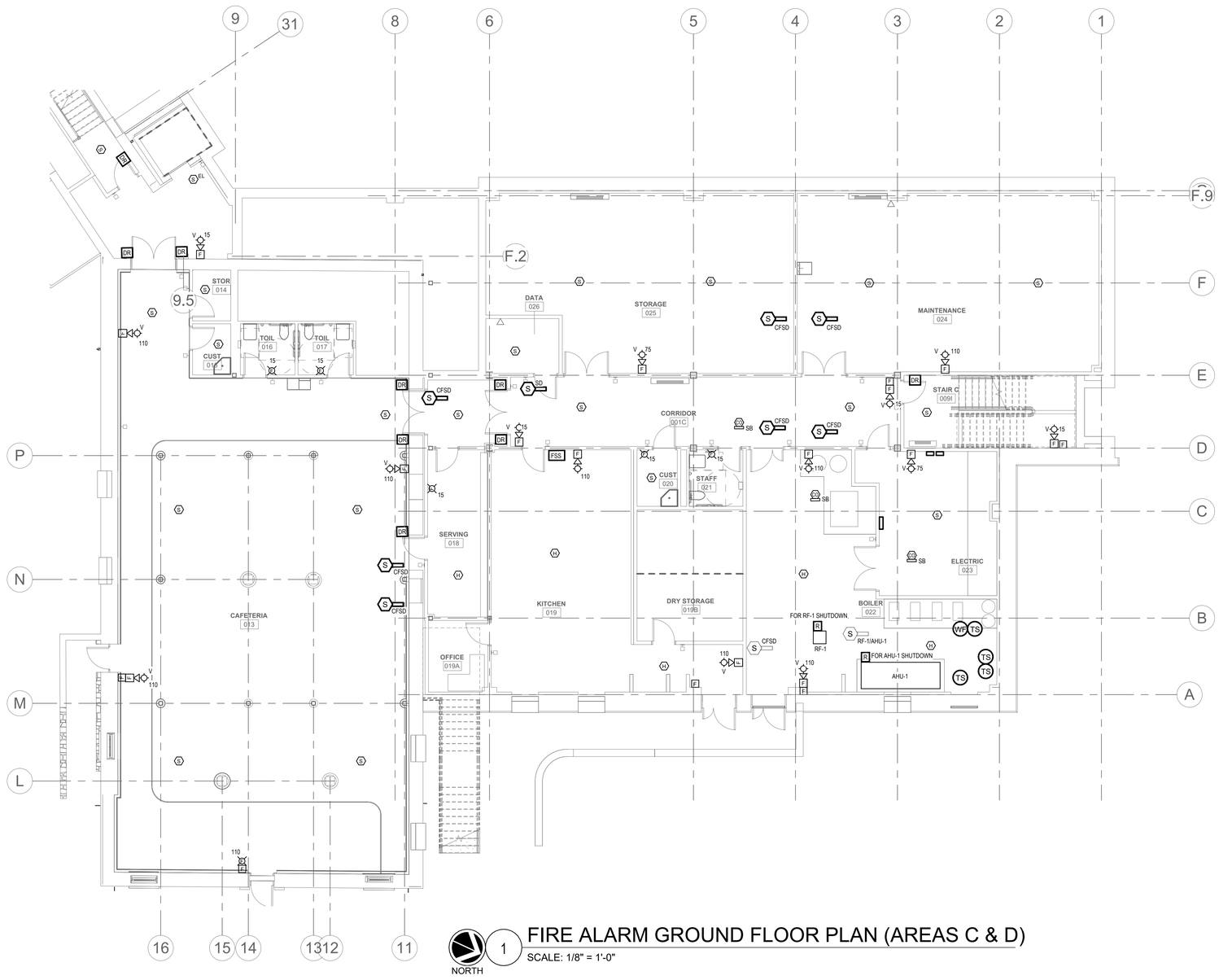
PROJECT No.
NKGD0292.00

SHEET TITLE

ELECTRICAL KITCHEN PLAN

SHEET No.

E308



NORTH

1 FIRE ALARM GROUND FLOOR PLAN (AREAS C & D)

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

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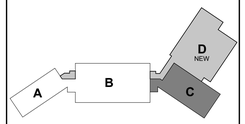
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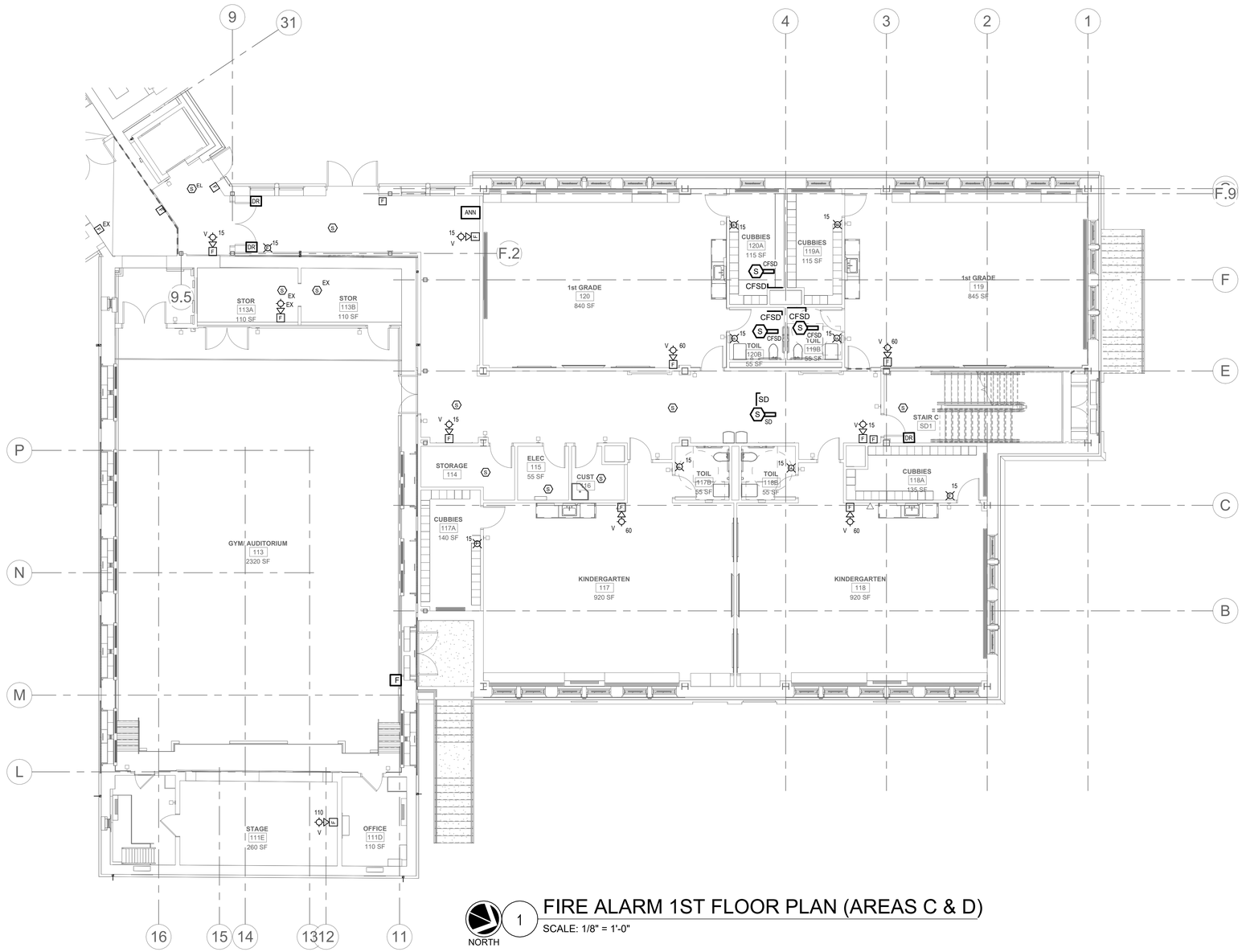
PROJECT No.
NKGD0292.00

SHEET TITLE

FIRE ALARM GROUND FLOOR PLAN (AREAS C & D)

SHEET No.

E401



1 FIRE ALARM 1ST FLOOR PLAN (AREAS C & D)

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

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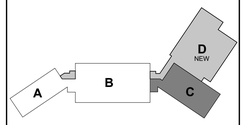
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KEY PLAN



PROJECT NORTH

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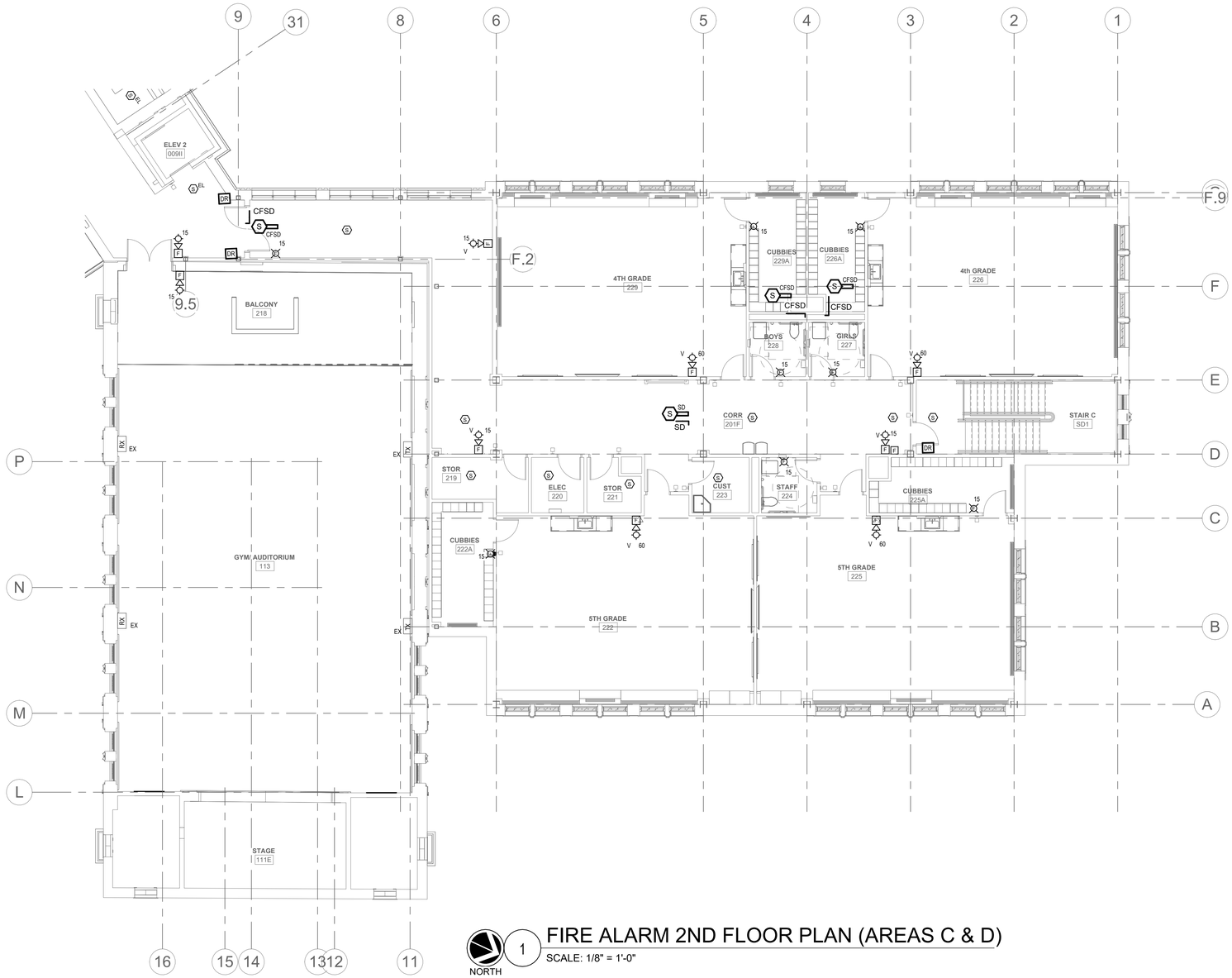
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SHEET TITLE

FIRE ALARM 1ST FLOOR PLAN (AREAS C & D)

SHEET No.

E402



1 FIRE ALARM 2ND FLOOR PLAN (AREAS C & D)

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NORTH

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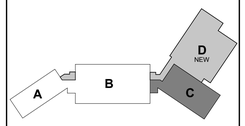
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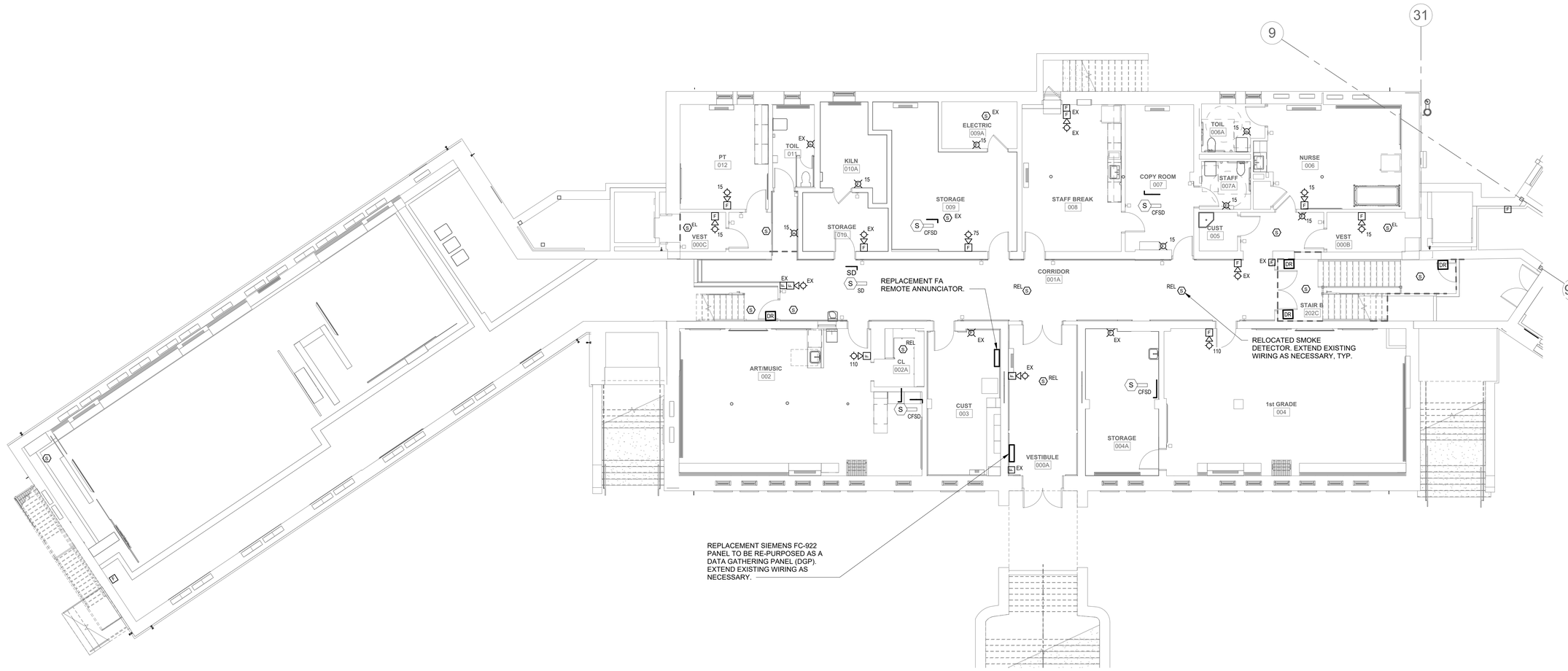
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SHEET TITLE

FIRE ALARM 2ND FLOOR PLAN (AREAS C & D)

SHEET No.

E403



NORTH

1 FIRE ALARM GROUND FLOOR PLAN (AREAS A & B)

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

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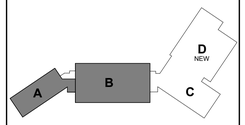
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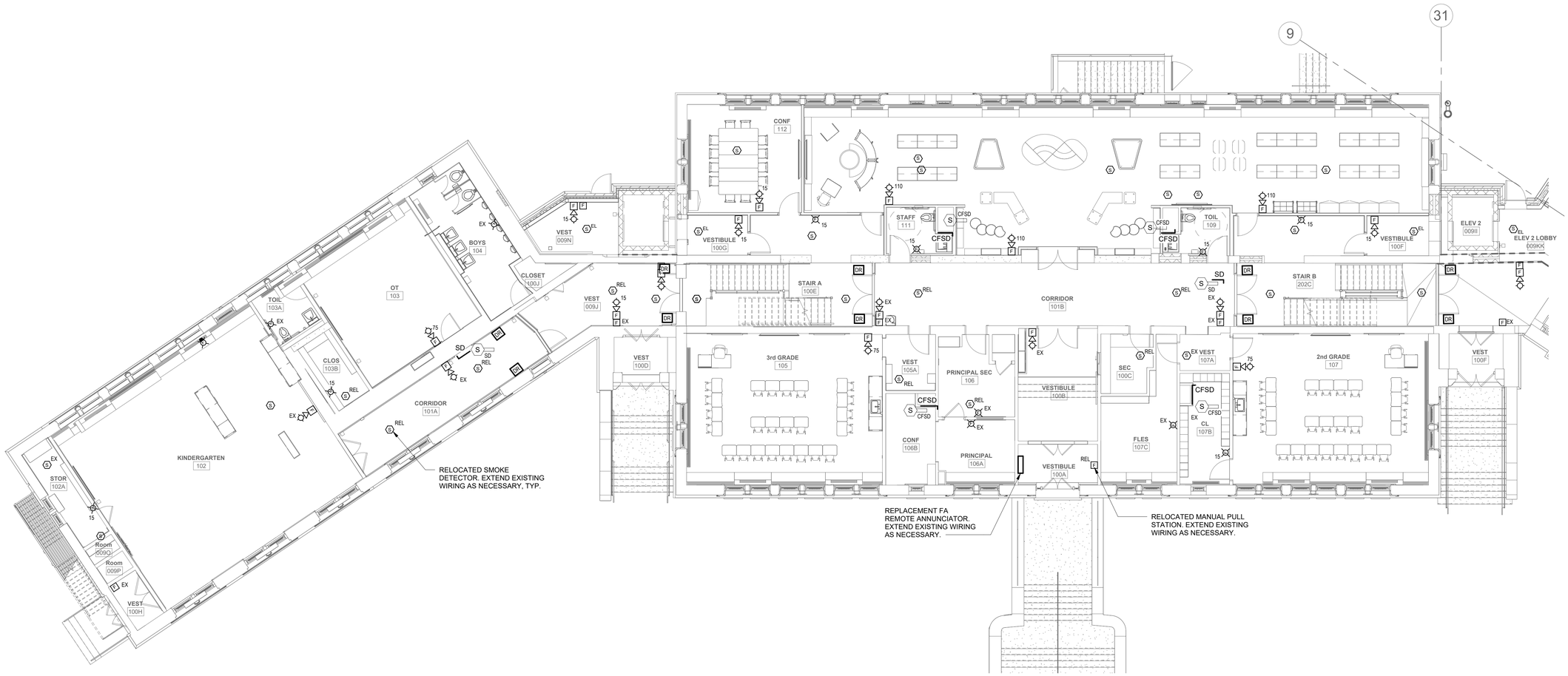
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SHEET TITLE

FIRE ALARM GROUND PLAN (AREAS A & B)

SHEET No.

E404



NORTH

1 FIRE ALARM 1ST FLOOR PLAN (AREAS A & B)

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

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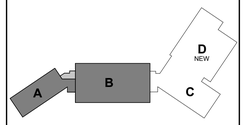
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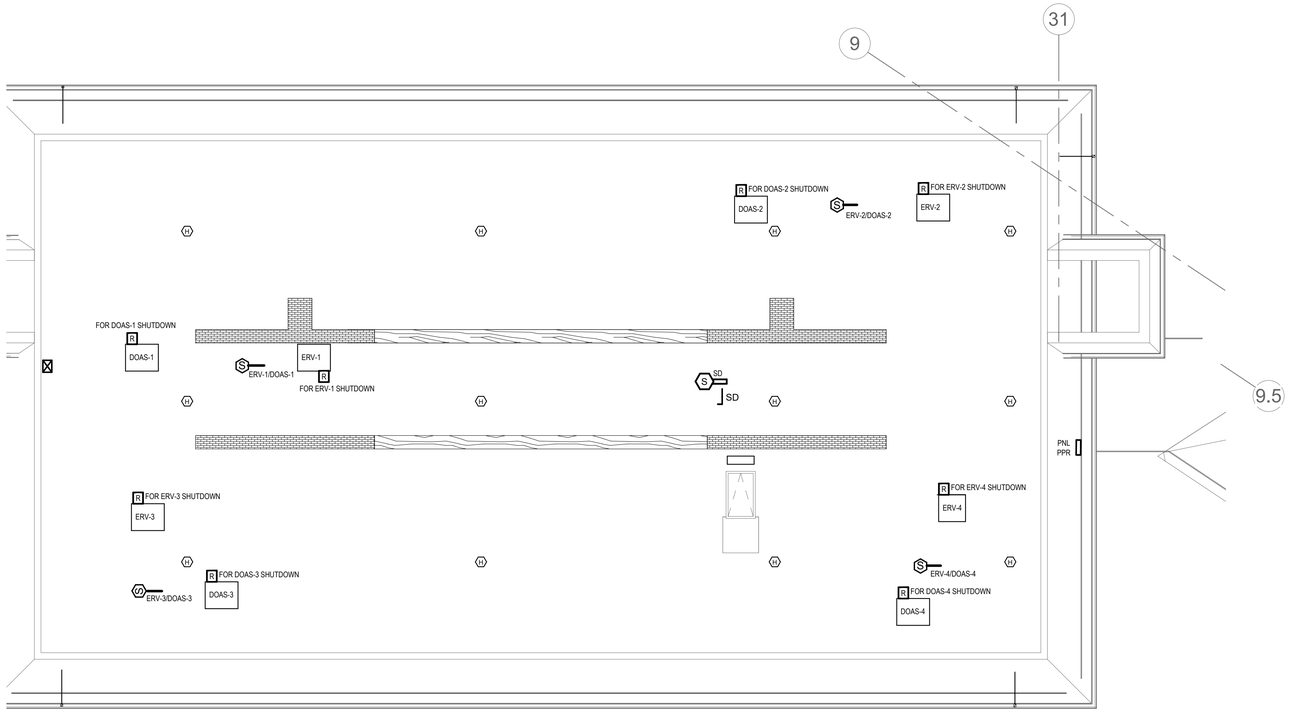
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SHEET TITLE

FIRE ALARM 1ST FLOOR PLAN (AREAS A & B)

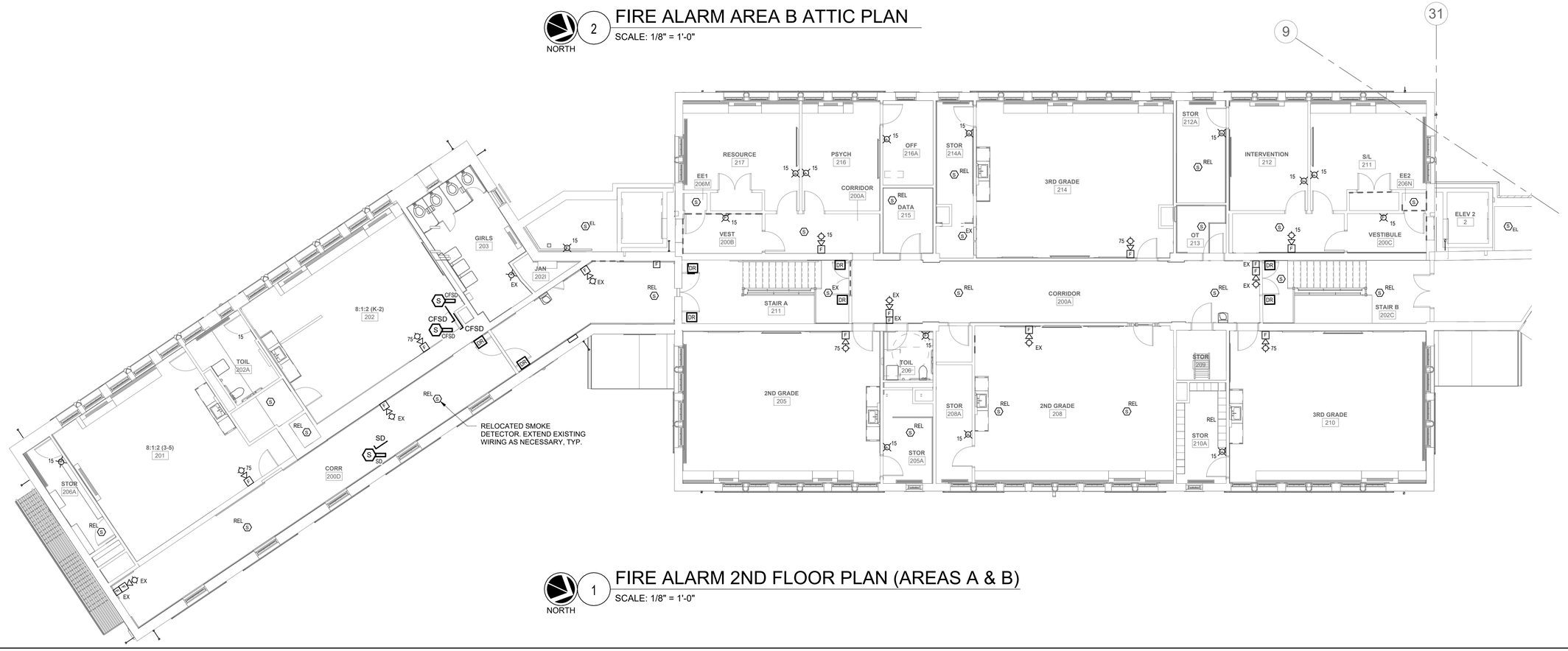
SHEET No.

E405



2 FIRE ALARM AREA B ATTIC PLAN

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



1 FIRE ALARM 2ND FLOOR PLAN (AREAS A & B)

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

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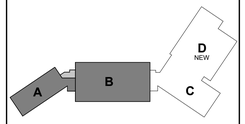
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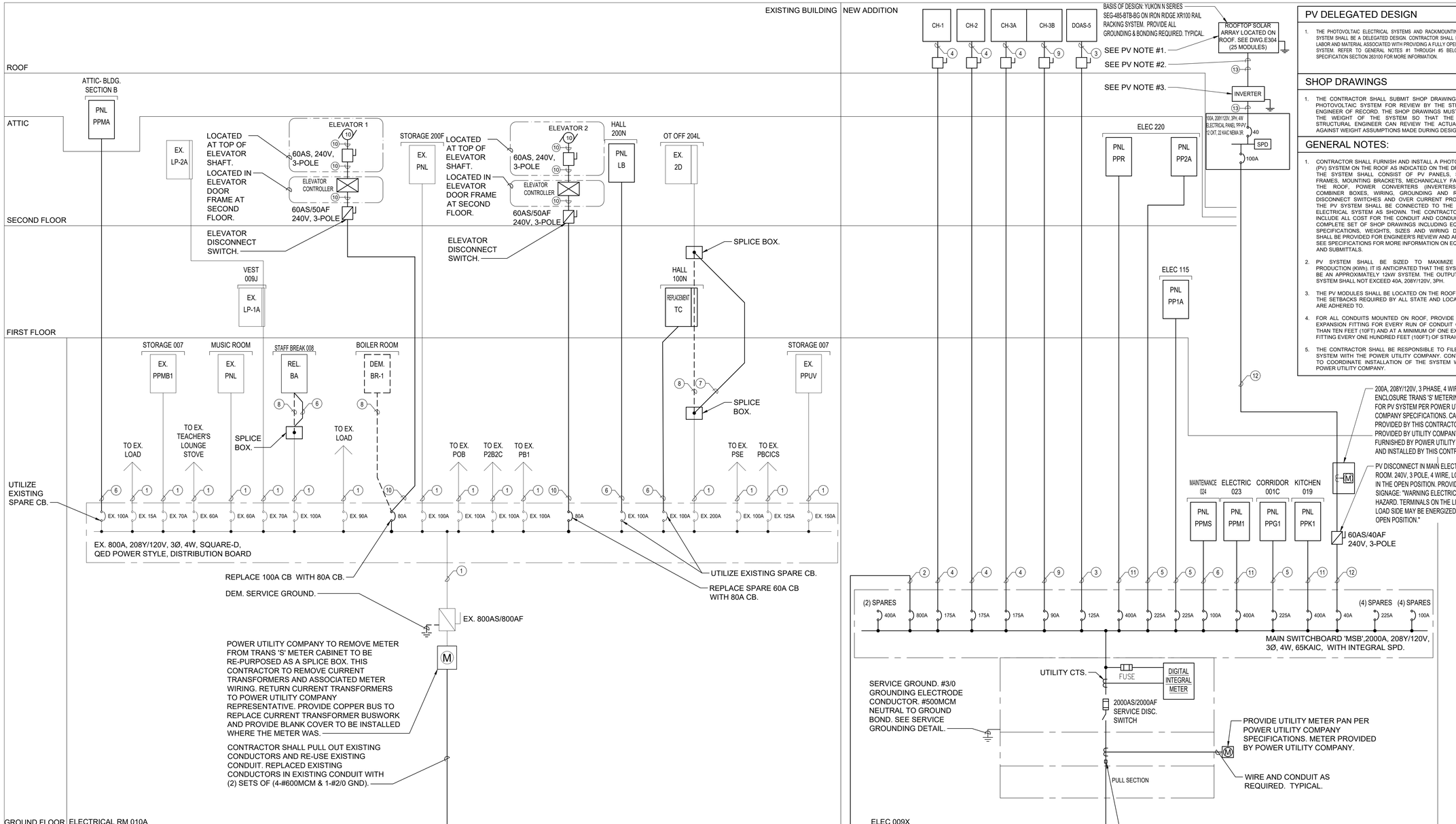
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SHEET TITLE

FIRE ALARM 2ND FLOOR & ATTIC PLAN (AREAS A & B)

SHEET No.

E406



PV DELEGATED DESIGN

1. THE PHOTOVOLTAIC ELECTRICAL SYSTEMS AND RACKMOUNTING SYSTEMS SYSTEM SHALL BE A DELEGATED DESIGN. CONTRACTOR SHALL INCLUDE ALL LABOR AND MATERIAL ASSOCIATED WITH PROVIDING A FULLY OPERATIONAL PV SYSTEM. REFER TO GENERAL NOTES #1 THROUGH #5 BELOW AND TO SPECIFICATION SECTION 263100 FOR MORE INFORMATION.

SHOP DRAWINGS

1. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE PHOTOVOLTAIC SYSTEM FOR REVIEW BY THE STRUCTURAL ENGINEER OF RECORD. THE SHOP DRAWINGS MUST INCLUDE THE WEIGHT OF THE SYSTEM SO THAT THE PROJECT STRUCTURAL ENGINEER CAN REVIEW THE ACTUAL WEIGHT AGAINST WEIGHT ASSUMPTIONS MADE DURING DESIGN.

GENERAL NOTES:

1. CONTRACTOR SHALL FURNISH AND INSTALL A PHOTOVOLTAIC (PV) SYSTEM ON THE ROOF AS INDICATED ON THE DRAWINGS. THE SYSTEM SHALL CONSIST OF PV PANELS, SUPPORT FRAMES, MOUNTING BRACKETS, MECHANICALLY FASTEN TO THE ROOF, POWER CONVERTERS (INVERTERS) UNITS, COMBINER BOXES, WIRING, GROUNDING AND REQUIRED DISCONNECT SWITCHES AND OVER CURRENT PROTECTION. THE PV SYSTEM SHALL BE CONNECTED TO THE EXISTING ELECTRICAL SYSTEM AS SHOWN. THE CONTRACTOR SHALL INCLUDE ALL COST FOR THE CONDUIT AND CONDUCTORS. A COMPLETE SET OF SHOP DRAWINGS INCLUDING EQUIPMENT SPECIFICATIONS, WEIGHTS, SIZES AND WIRING DIAGRAMS SHALL BE PROVIDED FOR ENGINEER'S REVIEW AND APPROVAL. SEE SPECIFICATIONS FOR MORE INFORMATION ON EQUIPMENT AND SUBMITTALS.
2. PV SYSTEM SHALL BE SIZED TO MAXIMIZE ANNUAL PRODUCTION (KWh). IT IS ANTICIPATED THAT THE SYSTEM WILL BE AN APPROXIMATELY 12kW SYSTEM. THE OUTPUT OF THE SYSTEM SHALL NOT EXCEED 40A, 208Y/120V, 3PH.
3. THE PV MODULES SHALL BE LOCATED ON THE ROOF SO THAT THE SETBACKS REQUIRED BY ALL STATE AND LOCAL CODES ARE ADHERED TO.
4. FOR ALL CONDUITS MOUNTED ON ROOF, PROVIDE CONDUIT EXPANSION FITTING FOR EVERY RUN OF CONDUIT GREATER THAN TEN FEET (10FT) AND AT A MINIMUM OF ONE EXPANSION FITTING EVERY ONE HUNDRED FEET (100FT) OF STRAIGHT RUN.
5. THE CONTRACTOR SHALL BE RESPONSIBLE TO FILE THE PV SYSTEM WITH THE POWER UTILITY COMPANY. CONTRACTOR TO COORDINATE INSTALLATION OF THE SYSTEM WITH THE POWER UTILITY COMPANY.

ADD ALTERNATE: PV SYSTEM

1. ALL WORK ASSOCIATED WITH THE PHOTO VOLTAIC (PV) SYSTEM SHALL BE 1PRICED AS AN ADD ALTERNATE. REFER TO DRAWINGS E301, E302, E303, E304, E304 AND E500 FOR ASSOCIATED WORK FOR PV SYSTEM.

1 ELECTRICAL ONE-LINE DIAGRAM

SCALE: NONE

WIRING/CONDUIT LEGEND:

1. EX. WIRING AND CONDUIT.
2. (2) SETS OF (4-#600MCM & 1-#2/0 GND) IN 2-4"C.
3. 3-#2 & 1-#6 GND IN 1-1/4"C.
4. 3-#2/0 & 1-#6 GND IN 2"C.
5. 4-#4/0 & 1-#4 GND IN 2-1/2"C.
6. 4-#2 & 1-# 8 GND IN 1-1/2"C.
7. 4-#3/0 & 1-#6 GND IN 2"C.
8. DEM. CONDUIT AND WIRE BACK TO POINT.
9. 3-#2 & 1-#6 GND IN 1-1/4"C.
10. 3-#6 & 1-#8 GND IN 1"C.
11. 4-#500MCM & 1-#2 GND IN 3-1/2"C.
12. 4-#4 & 1-#8 GND IN 2"C.
13. 4-#6 & 1-#10 GND IN 2"C.

NOTES:

1.) ALL CIRCUIT BREAKERS AND SWITCHES ARE 3 POLE, UON.
2.) SEE SITE PLAN FOR ADDITIONAL INFORMATION.

PV NOTES:

1.) PROVIDE ALL EQUIPMENT FOR AN APPROXIMATLY 12kW ROOFTOP PHOTOVOLTAIC SYSTEM INCLUDING SOLAR PANELS, MOUNTING, DISCONNECT SWITCHES, INVERTERS, DISTRIBUTION/COLLECTION PANEL AND GENERATION METER. PROVIDE ALL WIRING AND CONDUIT TO SUPPORT SYSTEM AND INTEGRATE SYSTEM INTO ELECTRICAL UTILITY SERVICE.

2.) DC WIRING SHALL BE PER NEC 690.31. TYP.

3.) 12kW, 3 PHASE, 208V OUTPUT, DC INVERTER, SIMILAR TO SOLAR EDGE SE12.5K US OR APPROVED EQUAL. EXACT RATINGS AND QUANTITITES OF INVERTERS SHALL BE COORDINATED WITH DELEGATED DESIGN.

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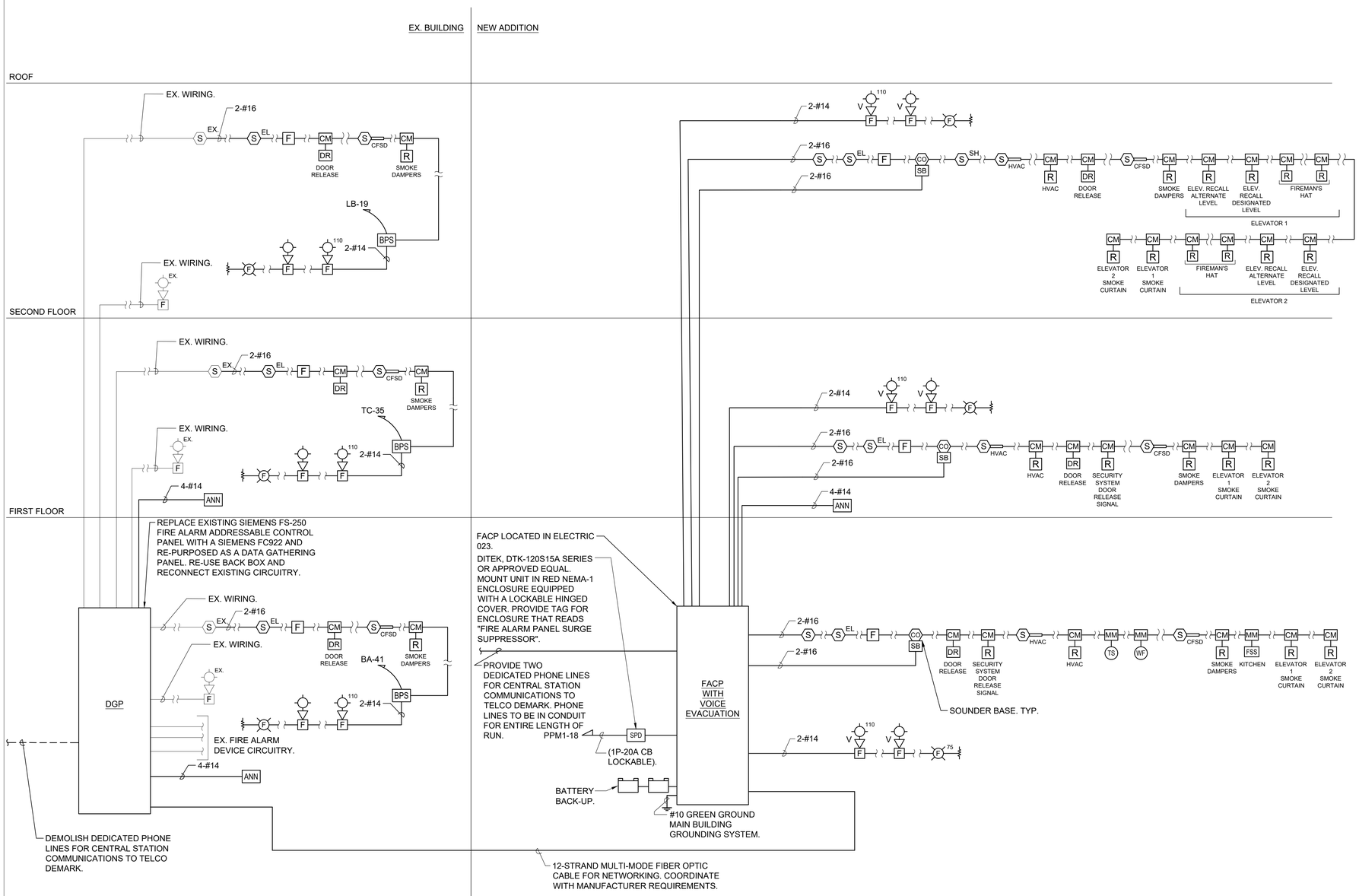
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SHEET TITLE
ELECTRICAL ONE-LINE DIAGRAM

SHEET No.
E500



1 ELECTRICAL FIRE ALARM RISER DIAGRAM
SCALE: NONE

RISER NOTES:

1.) THIS IS NOT A POINT-TO-POINT WIRING DIAGRAM. PRIOR TO STARTING ANY WORK, A WORKING POINT-TO-POINT WIRING DIAGRAM SHALL BE OBTAINED FROM FIRE ALARM SYSTEM VENDOR AND PERFORM ALL WORK IN ACCORDANCE WITH THAT DIAGRAM.

2.) ELECTRICAL CONTRACTOR SHALL INCLUDE IN THE BASE BID ALL 120V CIRCUITS THAT ARE REQUIRED TO SUPPORT THE OPERATION OF THE FIRE ALARM SYSTEM. COORDINATE REQUIREMENTS WITH THE FIRE ALARM VENDOR.

3.) QUANTITY OF STROBE BOOSTER POWER SUPPLY PANELS AND ASSOCIATED 120V CIRCUITS SHALL BE COORDINATED WITH SELECTED FIRE ALARM SYSTEM MANUFACTURER AND/OR FIRE ALARM VENDOR.

4.) PROVIDE ALL NECESSARY WIRING, MODULES, COMPONENTS, EXTENDER CABINET, AND PROGRAMMING REQUIRED TO CONNECT NEW DEVICES TO EXISTING SYSTEM.

5.) PROVIDE ALL NECESSARY HARDWARE AND PROGRAMMING TO PROVIDE THE CLIENT WITH 20% SPARE CAPACITY ON ALL INITIATING AND INDICATING CIRCUITS.

6.) PROVIDE AS PART OF THE BASE CONTRACT ALL LABOR AND MATERIALS TO INSTALL TWENTY (20) ADDITIONAL FIRE ALARM DEVICES DURING CONSTRUCTION. THE TWENTY (20) FIRE ALARM DEVICES CAN BE BUT NOT LIMITED TO SMOKE DETECTOR, HEAT DETECTOR, DOOR HOLDER, DUCT DETECTOR, FAN SHUTDOWN, TAMPER SWITCHES, FLOW SWITCHES, ETC. INCLUDE ALL LABOR AND MATERIALS INCLUDING WIRE, BOXES, CONDUIT, TERMINATIONS, HARDWARE, SOFTWARE, PROGRAMMING AND TESTING.

7.) DUCT SMOKE DETECTORS SHALL BE FURNISHED AND WIRED BY ELECTRICAL CONTRACTOR AND INSTALLED IN DUCT WORK BY MECHANICAL CONTRACTOR.

8.) CARBON MONOXIDE DETECTORS SHALL BE SUPERVISED BY FIRE ALARM SYSTEM BUT SHALL NOT SEND AN ALARM SIGNAL TO THE SYSTEM. THESE DETECTORS SHALL CONTAIN INTERNAL HORNS TO PROVIDE LOCAL ALARM ONLY.

9.) ALL VISUAL ALARM DEVICES SHALL BE ADA COMPLIANT.

10.) ELECTRICAL CONTRACTOR TO PROVIDE A RELAY FOR EACH SMOKE DAMPER/COMBINATION FIRE SMOKE DAMPER. RELAYS ARE NOT SHOWN ON PLANS FOR CLARITY.

11.) DOOR HOLDERS SHALL BE FURNISHED AND WIRED BY THE ELECTRICAL CONTRACTOR AND INSTALLED BY THE GENERAL CONTRACTOR.

12.) PROVIDE REMOTE LED INDICATORS FOR ALL CONCEALED FIRE ALARM DEVICES SUCH AS DUCT SMOKE DETECTORS, ABOVE CEILING SMOKE DETECTORS, ELEVATOR SHAFT DETECTORS, MONITORING AND CONTROL MODULES, ETC. LED INDICATORS FOR DEVICES MOUNTED ABOVE DROP CEILINGS SHALL BE MOUNTED BELOW ASSOCIATED DEVICES. LABEL INDICATORS TO INDICATE DEVICE SERVED.

13.) CONTRACTOR TO PROVIDE SMOKE DETECTOR(S) IN ALL LOCATIONS CONTAINING FIRE ALARM CONTROL PANELS, DATA GATHERING PANELS, BOOSTER POWER SUPPLIES, OR ANY OTHER FIRE ALARM SYSTEM PANEL, WHETHER SHOWN ON PLANS OR NOT.

14.) FIRE ALARM SYSTEM(S) SHALL REMAIN ACTIVE AT ALL TIMES DURING CONSTRUCTION.

15.) ALL FIRE ALARM CABLE SHALL BE PLENUM RATED.

16.) HEAT DETECTORS IN ELEVATOR MACHINE ROOM AND/OR SHAFT SHALL HAVE A LOWER TEMPERATURE RATING THAN THE NEARBY SPRINKLER HEAD(S). HEAT DETECTORS SHALL BE INSTALLED 2'-0" MAXIMUM AWAY FROM EACH SPRINKLER HEAD IN THE ELEVATOR MACHINE ROOM AND EACH HEAD LOCATED GREATER THAN 2'-0" ABOVE THE FLOOR OF THE ELEVATOR SHAFT. UPON ACTIVATION OF A HEAT DETECTOR USED FOR ELEVATOR POWER SHUTDOWN, THERE SHALL BE A DELAY IN THE ACTIVATION OF THE POWER SHUNT TRIP. THIS DELAY SHALL BE THE TIME THAT IT TAKES THE ELEVATOR CAB TO TRAVEL FROM THE TOP OF THE HOISTWAY TO THE LOWEST RECALL LEVEL. COORDINATE WITH ELEVATOR CONTRACTOR.

17.) SYSTEM SHALL BE AN EMERGENCY VOICE/ALARM COMMUNICATION SYSTEM.

18.) ROLL DOWN SMOKE CURTAINS AT ELEVATOR DOORS SHALL BE CONTROLLED BY THE ASSOCIATED LOCAL ELEVATOR LOBBY SMOKE DETECTORS. ELECTRICAL CONTRACTOR SHALL PROVIDE MOTOR RATED TOGGLE SWITCHES FOR ROLL DOWN SMOKE CURTAINS.

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PROFESSIONAL SEAL

NYSED PROJECT CONTROL No.
66-16-01-03-0-004-014

DATE: 11/12/2026
CONSTRUCTION DOCUMENTS
ISSUE FOR BID
REVISION

PROJECT No.
NKGD0292.00

SHEET TITLE
ELECTRICAL FIRE ALARM RISER DIAGRAM

SHEET No.
E501

LIGHTING SYSTEM FUNCTIONAL TESTING/COMMISSIONING

I. FUNCTIONAL TESTING

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

1. OCCUPANT SENSOR CONTROLS

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

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

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

2. TIME-SWITCH CONTROLS

WHERE TIME-SWITCH CONTROLS ARE PROVIDED, ITEMS A THROUGH E SHALL BE PERFORMED FOR ALL TIME-SWITCH CONTROLS. FOR PROJECTS WITH MORE THAN SEVEN SPACES WHERE LIGHTING OR RECEPTACLES ARE CONTROLLED BY TIME-SWITCH CONTROLS, NOT LESS THAN 10 PERCENT OF SPACES AND IN NO CASE FEWER THAN ONE SPACE SHALL BE TESTED ACCORDING TO ITEMS F AND G UNLESS THE BUILDING OFFICIAL OR REGISTERED DESIGN PROFESSIONAL REQUIRES A HIGHER PERCENTAGE TO BE TESTED. WHERE 30 PERCENT OR MORE OF THE TESTED SPACES FAIL ANY OF THE REQUIREMENTS IN ITEMS F AND G, ALL REMAINING SPACES SHALL BE TESTED.

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

II. DOCUMENTATION REQUIREMENTS

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

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

DESIGN INTENT - LIGHTING CONTROL SYSTEM

1.) LIGHTING CONTROL SYSTEM IS BASED ON N-LIGHT BY ACUITY (FINN O'BRIEN (646) 352-2188) OR APPROVED EQUAL. (OTHER ACCEPTABLE MANUFACTURERS ARE LUTRON & COOPER LIGHTING.)

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

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

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

5.) VACANCY SENSING: MANUAL ON/AUTO OFF; OCCUPANCY SENSING: AUTO ON/AUTO OFF.

6.) PROVIDE ALL WIRING, POWER PACKS, CONTACTS, ETC. TO PROVIDE RECEPTACLE CONTROL. SEE DRAWING E31 FOR INFORMATION ON RECEPTACLE CONTROL.

LIGHTING FIXTURE SCHEDULE

FIXTURE DESIGNATION	MANUFACTURER	CATALOG NUMBER	LAMPS	VOLTS	MOUNTING	LUMENS	REMARKS
A1	COLUMBIA LIGHTING	NBT22-35L062G-SF-ED1U	52W/LED	UNV	RECESSED	6200	2'X2', 3500K, RECESSED, SQUARE LED LIGHT FIXTURE. COORDINATE FINISH WITH ARCHITECT. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM, WHERE INDICATED ON PLAN.
A2	COLUMBIA LIGHTING	NBT22-35L044G-SF-ED1U	36W/LED	UNV	RECESSED	4400	2'X2', 3500K, RECESSED, SQUARE LED LIGHT FIXTURE. COORDINATE FINISH WITH ARCHITECT. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM, WHERE INDICATED ON PLAN.
B	COLUMBIA LIGHTING	NBT24-35LO42G-SF-ED1U	30W/LED	UNV	RECESSED	4200	2'X4', 3500K, RECESSED, RECTANGLE LED LIGHT FIXTURE. COORDINATE FINISH WITH ARCHITECT.
C	PRESCOLITE	LTR-4RD-H-SL15L-DM1 LTR-4RD-T-SL35K8WD-S-WC-WT-EM	18.6W/LED	UNV	RECESSED	1500	4" DIAMETER, 3500K, RECESSED, LED DOWNLIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM, WHERE INDICATED ON PLAN.
D	PINNACLE	F36D-AR-935LO-S-U-FSD-FSB-CC	45.1W	UNV	SURFACE	4019	36" DIAMETER, 3500K, SURFACE MOUNTED, LED ROUNDLIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM, WHERE INDICATED ON PLAN. RAL GREEN FINISH
E	PINNACLE	F48D-AR-935LO-S-U-FSD-FSB-CC	84.3W	UNV	SURFACE	7917	48" DIAMETER, 3500K, SURFACE MOUNTED, LED ROUNDLIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM, WHERE INDICATED ON PLAN. RAL GREEN FINISH
F	PINNACLE	F36D-AR-935LO-S-U-FSD-FSB-CC	45.1W	UNV	SURFACE	4019	36" DIAMETER, 3500K, SURFACE MOUNTED, LED ROUNDLIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM, WHERE INDICATED ON PLAN. COORDINATE FINISH WITH ARCHITECT.
G1	FRASCH	LGT-LL0112M	30W	UNV	PENDANT	2500	51.57" DIAMETER, 3000K, PENDANT MOUNTED, LED CHANDELIER FIXTURE. INDIGO FINISH.
G2	FRASCH	LGT-LL0112M	30W	UNV	PENDANT	2500	51.57" DIAMETER, 3000K, PENDANT MOUNTED, LED CHANDELIER FIXTURE. LAGOON FINISH.
G3	FRASCH	LGT-LL0112M	30W	UNV	PENDANT	2500	51.57" DIAMETER, 3000K, PENDANT MOUNTED, LED CHANDELIER FIXTURE. ARTICHOKE FINISH.
G4	FRASCH	LGT-LL0112M	30W	UNV	PENDANT	2500	51.57" DIAMETER, 3000K, PENDANT MOUNTED, LED CHANDELIER FIXTURE. CITRUS FINISH.
H4	COLUMBIA LIGHTING	RLW4-35XW-FAW-EU-___-___-CM24SCF3-KIT	17.9W	UNV	PENDANT	2700	4', 3500K, PENDANT MOUNTED, LINEAR LED LIGHT FIXTURE.
H8	COLUMBIA LIGHTING	RLW8-35XW-FAW-EU-___-___-CM24SCF3-KIT	33.6W	UNV	PENDANT	5400	8', 3500K, PENDANT MOUNTED, LINEAR LED LIGHT FIXTURE
J	MAXIM LIGHTING	52002SN	16W/LED	UNV	SURFACE	1520	24", 3000K SURFACE MOUNTED, VANITY LED LIGHT FIXTURE
K	ALW	M1.5/TS-D2-CM-MED/80/3500-V00-LENS-N-N-RAL___-UNV-EMB-___	47W/LED	UNV	SURFACE	3000	24" DIAMETER, 3500K, SURFACE MOUNTED, LED RING LIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM, WHERE INDICATED ON PLAN. COORDINATE FINISH WITH ARCHITECT.
L	PINNACLE	F24D-AR-935MO-S-U-FSD-1-FSG-CC	28.9W/LED	UNV	SURFACE	2548	24" DIAMATER, 3500K, SURFACE MOUNTED, LED ROUND LIGHT. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM, WHERE INDICATED ON PLAN. COORDINATE FINISH WITH ARCHITECT. RAL BLUE FINISH.
M	JUSTICE DESIGN GROUP	ALR-8226-BRSS	60W/LED	120V	PENDANT	5300	42" DIAMETER, 3000K, PENDANT MOUNTED, LED RING LIGHT FIXTURE.
N	LUMINOSO	ELHB4-WS250-Y-CCTS-PIR-WG-EB	150W/LED	UNV	SURFACE	42000	2', SURFACE MOUNTED, LINEAR LED LIGHT FIXTURE WITH FIELD SELECTABLE CCT AND LUMEN SETTING. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM, WHERE INDICATED ON PLAN. COORDINATE CCT AND LUMEN SETTING WITH ARCHITECT
P	CURRENT	ML-2L-50-LSCS	48.8W/LED	UNV	SURFACE	7248	SURFACE MOUNTED, TWIN HEAD FLOOD LED LIGHT FIXTURE WITH FIELD SELECTABLE CCT AND LUMEN SETTING. COORDINATE CCT AND LUMEN SETTING WITH ARCHITECT.
Q	DIODELED	D1-24V-VLX3-30-___	2.8W/FT	24VDC	SURFACE	323LM/FT	3000K, SURFACE MOUNTED, LED STRIP LIGHT.
R	PRESCOLITE	LTC-4RW-W-35L35K9WD-DM1EM-BCBT-BZ	42.9W/LED	UNV	SURFACE	3622	4" DIAMETER, 3500K, WALL MOUNTED, LED DOWNLIGHT FIXTURE. PROVIDE EM OPTION FOR 90 MINUTES OF BATTERY BACKUP TIME, MINIMUM, WHERE INDICATED ON PLAN.
⊠	LITHONIA LIGHTING	EDGR-1-R-EL	LED 3.8W	120	CEILING, U.O.N AS W-WALL OR P-PENDANT		LED EXIT SIGN WITH 90 MINUTES OF BATTERY BACKUP TIME. 8" RED LETTERS ON CLEAR BACKGROUND. TRIM SHALL BE RECESSED AND FLAT.

NOTES:

1.) VERIFY ALL FIXTURE CATALOG NUMBERS FOR INTENDED APPLICATIONS WITH REQUIRED ACCESSORIES.
2.) ALL BALLASTS AND DRIVERS IN FIXTURES LOCATED OUTDOORS SHALL BE ZERO DEGREE RATED STARTING TEMPERATURE. REFER TO DRAWINGS FOR LOCATION OF FIXTURES.
3.) LIGHT FIXTURES INDICATED AS EMERGENCY (EM) ON DRAWINGS SHALL CONTAIN AN EMERGENCY BACK-UP BATTERY WHERE POSSIBLE AND SHALL BE INTERNAL TO FIXTURE WITH A VISUAL INDICATING CHARGE LAMP AND TEST SWITCH. IF IT IS NOT POSSIBLE TO INSTALL THE EMERGENCY BATTERY IN THE FIXTURE, THE CONTRACTOR SHALL FURNISH & INSTALL A REMOTE EMERGENCY BATTERY. EACH BATTERY PACK SHALL BE CONNECTED SO THAT THE FIXTURE CAN BE SWITCHED UNDER NORMAL CONDITIONS AND IN THE EVENT OF A POWER OUTAGE, THE FIXTURE SHALL AUTOMATICALLY ILLUMINATE FOR 90 MINUTES WITH A 1200 LUMEN OUTPUT (TOTAL FROM FIXTURE), MINIMUM.
4.) ALL EXIT AND EMERGENCY FIXTURES SHALL BE FED FROM UNSWITCHED LEG OF ASSOCIATED LOCAL LIGHTING CIRCUITS.
5.) 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.

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PROFESSIONAL SEAL

NYSED PROJECT CONTROL No.
66-16-01-03-0-004-014

DATE: 11/12/2026
CONSTRUCTION DOCUMENTS
ISSUE FOR BID
REVISION

PROJECT No.
NKGD0292.00

SHEET TITLE
ELECTRICAL LIGHTING FIXTURE SCHEDULE

SHEET No.
E601

PANELBOARD PPMS

MAIN RATING: 100A MAIN C.B.: 100A KAIC RATING: 22KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	DUST COLLECTOR	20	2	1	20	REC - MAINT. SHOP	2
3				1	20	REC - MAINT. SHOP	4
5	TABLE SAW	45	3	1	20	REC - MAINT. SHOP	6
7				1	20	REC - MAINT. SHOP	8
9				1	20	MINTER SAW	10
11	REC - MAINT. SHOP WORKING TABLE	20	1	1	20	ROUTER TABLE	12
13	MAINTENANCE 024 -EMERGENCY POWER OFF SHUTDOWN	20	1	1	20	DRILL PRESS	14
15	SPARE	20	1	1	20	PANEL SAW	16
17	SPARE	20	1	1	20	SPARE	18
19	SPARE	20	1	1	20	SPARE	20
21	SPARE	20	1	1	20	SPARE	22
23	SPARE	20	1	1	20	SPARE	24

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PANELBOARD PPMA

MAIN RATING: 100A MAIN C.B.: 100 KAIC RATING: 22KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	ERV-1	15	2	2	15	DOAS-1	2
3							4
5	ERV-2	20	2	2	15	DOAS-2	6
7							8
9	ERV-3	20	2	2	15	DOAS-3	10
11							12
13	ERV-4	15	2	2	15	DOAS-4	14
15							16
17	(3) ATTIC SERVICE RECEPTS	20	1	1	20	ATTIC MOTORIZED DAMPERS	18
19	ATTIC LIGHTS	20	1	1	20	ATTIC MOTORIZED DAMPERS	20
21	-	-	-	1	20	ATTIC MOTORIZED DAMPERS	22
23	-	-	-	1	20	ATTIC SMOKE DAMPERS	24
25	UH-B	15	1	2	15	EX-1	26
27	SPARE	20	1				28
29	SPARE	20	1	1	20	SPARE	30

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PANELBOARD PPM1

MAIN RATING: 400A MAIN C.B.: MLO KAIC RATING: 42KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	HWP-1	60	3	1	20	RM. 020-023 LGTS	2
3				1	20	STAIR C 009I LGTS	4
5				1	20	STAIR C 009I LGTS	6
7	HWP-2	60	3	1	20	MOTORIZED DAMPERS	8
9				1	20	CONTROL PANEL	10
11				1	20	CONTROL PANEL	12
13	CHWP-1	80	3	1	20	CONTROL PANEL	14
15				1	20	CONTROL PANEL	16
17				1	20LK	FIRE ALARM CONTROL PANEL (FACP)	18
19	CHWP-2	80	3	3	15	RF-1	20
21							22
23							24
25	AHU-1	30	3	1	25	RECIRC PUMP	26
27				1	15	HOT TEMP RECIRC PUMP	28
29				1	20	REC - MAIN ELECTRICAL ROOM	30
31	B-1	20	1	1	20	REC - MAIN ELECTRICAL ROOM	32
33	B-2	20	1	1	20	REC - MAIN ELECTRICAL ROOM	34
35	BOILER SHUTDOWN	15	1	1	20	DHWH-1	36
37	BOILER ROOM QUADS	20	1	1	20	DHWH-2	38
39	SPARE	20	1	2	40GP	SNOW MELT CONTROLLER#1	40
41	BUILDING MOUNTED LIGHT	20	1				42
43	HWP-3	20	3	2	40GP	SNOW MELT CONTROLLER#2	44
45							46
47				1	20	MIXING VALVE	48
49	HWP-4	20	3	1	20	MIXING VALVE	50
51				1	20	SPARE	52
53				1	20	SPARE	54
55	SPARE	20	1	1	20	SPARE	56
57	SPARE	20	1	1	20	SPARE	58
59	SPARE	20	1	1	20	SPARE	60
61	SPARE	20	1	1	20	SPARE	62
63	SPARE	20	1	1	20	SPARE	64
65	SPARE	20	1	1	20	SPARE	66

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

PANELBOARD PPG1

MAIN RATING: 225A MAIN C.B.: 225A KAIC RATING: 22KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: RECESSED

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	FAN COIL UNITS	15	2	1	20	CORRIDOR 001C LGTS	2
3				1	20	RM. 024-026 LGTS	4
5	FAN COIL UNITS	15	2	1	20	RM. 013-017 LGTS	6
7				1	20	CORRIDOR 001B LGTS	8
9	DATA 026 AC-A	30	2	1	20	GROUND FLOOR CFSD AND SD	10
11				1	20	REC - CORRIDOR 001C	12
13	SPARE	20	1	1	20	HAND DRYER - STAFF 021	14
15	SPARE	20	1	1	20	SPARE	16
17	SPARE	20	1	1	20	SPARE	18
19	SPARE	20	1	1	20	SPARE	20
21	SPARE	20	1	1	20	SPARE	22
23	SPARE	20	1	1	20	SPARE	24
25	SPARE	20	1	1	20	SPARE	26
27	SPARE	20	1	1	20	SPARE	28
29	SPARE	20	1	1	20	REC - STORAGE 025	30
31	SPARE	20	1	1	20	REC - DATA 026	32
33	SPARE	20	1	1	20	REC - MAINTENANCE 024	34
35	SPARE	20	1	1	20	REC - TOIL 021	36
37	SPARE	20	1	1	20	REC - TOIL 016 & 017	38
39	SPARE	20	1	1	20	REC - CAFETERIA 013	40
41	SPARE	20	1	1	20	REC - CAFETERIA 013	42
43	SPARE	20	1	1	20	AUTO FAUCET & FLUSHOMTERS	44
45	FAN COIL UNIT - STAIR C	15	2	1	20	DATA EQUIPMENT	46
47				2	30	DATA EQUIPMENT	48
49	SPARE	20	1				50
51	SPARE	20	1	1	20	CP-1 - GROUND FLOOR	52
53	SPARE	20	1	1	20	CP-1 - GROUND FLOOR STAIR C	54
55	SPARE	20	1	1	20	FIRST FLOOR CFSD AND SD	56
57	SPARE	20	1	1	20	SECOND FLOOR CFSD AND SD	58
59	SPARE	20	1	1	20	REC - CUST 015	60
61	SPARE	20	1	1	20	REC - CUST 020	62
63	SPARE	20	1	1	20	SPARE	64
65	SPARE	20	1	1	20	SPARE	66

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:

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PROFESSIONAL SEAL

NYSED PROJECT CONTROL No.
66-16-01-03-0-004-014

DATE: 11/12/2026
CONSTRUCTION DOCUMENTS
ISSUE FOR BID
REVISION

PROJECT No.
NKGD0292.00

SHEET TITLE

ELECTRICAL PANELBOARD SCHEDULES

SHEET No.

E602

PANELBOARD PPR

MAIN RATING: 400A MAIN C.B.: 400A KAIC RATING: 22KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1							2
3	ACC-1	40	3	3	30	RELOCATED CONDENSING UNIT	4
5							6
7							8
9	ACC-2	40	3	3	30	RELOCATED CONDENSING UNIT	10
11							12
13				-	-	-	14
15	RF-2	15	3	-	-	-	16
17				-	-	-	18
19				-	-	-	20
21	ACC-3	40	3	-	-	-	22
23				-	-	-	24
25				-	-	-	26
27	ACC-4	40	3	-	-	-	28
29				-	-	-	30
31				-	-	-	32
33	CHWP-3	15	3	1	20	ATTIC SD & CFSD CKT	34
35				-	-	-	36
37							38
39	CHWP-4	15	3	3	20	CHWP-5	40
41							42
43	ACC-A	30	2	1	20	SPARE	44
45				1	20	SPARE	46
47	ACC-A	30	2	1	20	SPARE	48
49				1	20	SPARE	50
51	CONTROL PANEL	20	1	1	20	SPARE	52
53	CONTROL PANEL	20	1	1	20	SPARE	54
55	CONTROL PANEL	20	1	1	20	SPARE	56
57	CONTROL PANEL	20	1	1	20	SPARE	58
59	SPARE	20	1	1	20	SPARE	60
61	SPARE	20	1				62
63	SPARE	20	1				64
65	SPARE	20	1				66
67	SPARE	20	1				68
69	SPARE	20	1				70
71	SPARE	20	1				72

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

PANELBOARD PP2A

MAIN RATING: 225A MAIN C.B.: 225A KAIC RATING: 22KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	FAN COIL UNITS	15	2	3	20	AHU-2	2
3							4
5	FAN COIL UNITS	15	2				6
7				3	20	AHU-3	8
9	BUILDING MOUNTED LGTS	20	1				10
11	CONTROL PANEL	20	1				12
13	CONTROL PANEL	20	1	1	20	MOTORIZED DAMPERS	14
15	CONTROL PANEL	20	1	1	20	CORRIDOR 201F LGTS	16
17	CONTROL PANEL	20	1	1	20	RM. 219-225 LGTS	18
19	FAN COIL UNITS	15	2	1	20	RM. 226-229 LGTS	20
21				1	20	GYMNASIUM LGTS	22
23	SPARE	20	1	1	20	GYMNASIUM LGTS	24
25	SPARE	20	1	1	20	GYMNASIUM LGTS	26
27	SPARE	20	1	1	20	GYMNASIUM LGTS	28
29	SPARE	20	1	1	20	REC - CLASSROOM 225	30
31	REC - CORR 201F	20	1	1	20	REC - CLASSROOM 225	32
33	REC - CORR 201F	20	1	1	20	REC - CLASSROOM 225	34
35	REC - GIRLS 227 & BOYS 228	20	1	1	20	REC - CLASSROOM 222	36
37	REC - CLASSROOM 229	20	1	1	20	REC - CLASSROOM 222	38
39	REC - CLASSROOM 229	20	1	1	20	REC - CLASSROOM 222	40
41	REC - CLASSROOM 229	20	1	1	20	REC - CUBBIES 222A & 225A	42
43	REC - CLASSROOM 226	20	1	1	20	REC - CUST 223 & STAFF 224	44
45	REC - CLASSROOM 226	20	1	1	20	REC - CUBBIES 226A & 229A	46
47	REC - CLASSROOM 226	20	1	1	20	AUTO FAUCET & FLUSHOMETER	48
49	SPARE	20	1	1	20	HAND DRYER - STAFF 224	50
51	SPARE	20	1	1	20	HAND DRYER - BOYS 228	52
53	SPARE	20	1	1	20	HAND DRYER - GIRLS 227	54
55	SPARE	20	1	1	20	REC - ELEC 220	56
57	SPARE	20	1	1	20	SPARE	58
59	SPARE	20	1	1	20	SPARE	60
61	SPARE	20	1	1	20	SPARE	62
63	SPARE	20	1	1	20	SPARE	64
65	SPARE	20	1	1	20	SPARE	66
67	SPARE	20	1	1	20	SPARE	68
69	SPARE	20	1	1	20	SPARE	70
71	SPARE	20	1	1	20	SPARE	72

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

PANELBOARD PP1A

MAIN RATING: 225A MAIN C.B.: 225A KAIC RATING: 22KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	FAN COIL UNITS	15	2	1	20	CORRIDOR 101D & RM. 009KK LGTS	2
3				1	20	RM. 114-118 LGTS	4
5	FAN COIL UNITS	15	2	1	20	RM. 120-119 LGTS	6
7				1	20	BUILDING MOUNTED LGTS	8
9	CONTROL PANEL	20	1	1	20	BUILDING MOUNTED LGTS	10
11	CONTROL PANEL	20	1	-	-	-	12
13	CONTROL PANEL	20	1	-	-	-	14
15	CONTROL PANEL	20	1	-	-	-	16
17	FAN COIL UNITS	15	2	-	-	-	18
19				-	-	-	20
21	-	-	-	-	-	-	22
23	-	-	-	-	-	-	24
25	-	-	-	-	-	-	26
27	-	-	-	-	-	-	28
29	-	-	-	1	20	REC - CLASSROOM 117	30
31	REC - CLASSROOM 119	20	1	1	20	REC - CLASSROOM 117	32
33	REC - CLASSROOM 119	20	1	1	20	REC - CLASSROOM 117	34
35	REC - CLASSROOM 119	20	1	1	20	REC - CLASSROOM 118	36
37	REC - CLASSROOM 120	20	1	1	20	REC - CLASSROOM 118	38
39	REC - CLASSROOM 120	20	1	1	20	REC - CLASSROOM 118	40
41	REC - CLASSROOM 120	20	1	1	20	REC - TOIL 117B & TOIL 119B	42
43	REC - STORAGE 114 & CUST 116	20	1	1	20	REC - TOIL 119B & TOIL 120B	44
45	REC - CORRIDOR 101D	20	1	1	20	REC - CUBBIES 119A & 120A	46
47	REC - CORRIDOR 101D	20	1	1	20	REC - CUBBIES 117A & 118B	48
49	REC - ELEC 115	20	1	1	20	SPARE	50
51	DAC-1	20	2	1	20	SPARE	52
53				1	20	SPARE	54
55	SPARE	20	1	1	20	SPARE	56
57	SPARE	20	1	1	20	SPARE	58
59	SPARE	20	1	1	20	SPARE	60
61	SPARE	20	1	1	20	SPARE	62
63	SPARE	20	1	1	20	SPARE	64
65				1	20	SPARE	66

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

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PROFESSIONAL SEAL

NYSED PROJECT CONTROL No.
66-16-01-03-0-004-014

DATE: 11/12/2026
CONSTRUCTION DOCUMENTS
ISSUE FOR BID
REVISION

PROJECT No.
NKGD0292.00

SHEET TITLE

ELECTRICAL PANELBOARD SCHEDULES

SHEET No.

E603

REPLACEMENT PANELBOARD TC

MAIN RATING: 225A MAIN C.B.: 100A KAIC RATING: 22KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: RECESSED

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	EX. LOAD	@20	1	1	20	HAND DRYER - TOIL 109	2
3	EX. LOAD	@20	1	1	20	HAND DRYER - STAFF 111	4
5	EX. LOAD	@20	1	-	-	-	6
7	EX. LOAD	@20	1				8
9	EX. LOAD	@20	1	3	@20	EX. SPD	10
11	EX. LOAD	@20	1				12
13	FIRE ALARM	20LK	1	1	20	READING ROOM 110 LGTS	14
15	REC - CONFERENCE RM 112	20	1	1	20	CORRIDOR 101B, VEST 100B & 100A LGTS	16
17	REC - STORAGE 010 & CONF 112	20	1	1	20	RM. 105 & 106 LGTS	18
19	REC - LIBRARY	20	1	1	20	RM. 107-107C LGTS	20
21	REC - CLASSROOM 105	20	1	1	20	VEST 100G & 100F, RM 109,111,112 LGTS	22
23	REC - CLASSROOM 105	20	1	1	@20	EX. LOAD	24
25	REC - CLASSROOM 105	20	1	1	@20	EX. LOAD	26
27	REC - CLASSROOM 107	20	1	1	20	REC - TOIL 109	28
29	REC - CLASSROOM 107	20	1	1	20	AUTO FAUCET & FLUSHOMETER	30
31	REC - CLASSROOM 107	20	1	1	20	ELEVATOR SMOKE CURTAIN	32
33	REC - CONF 112	20	1	1	20	ELEVATOR SMOKE CURTAIN	34
35	BPS - FIRST FLOOR	20LK	1	1	20	ELEVATOR SMOKE CURTAIN	36
37	-	-	-	1	20	ELEVATOR SMOKE CURTAIN	38
39	-	-	-	-	-	-	40
41	EX. LOAD	@20	1	1	@20	EX. LOAD	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:
1. LOADS INDICATED IN BOLD ARE NEW. PROVIDE CIRCUIT BREAKERS AS INDICATED. ALL OTHER LOADS AND CIRCUIT BREAKERS ARE EXISTING TO REMAIN.
2. @ DENOTES CIRCUITS FOR EXISTING LOAD FROM EXISTING PANELBOARD TC.

EXISTING PANELBOARD PPUV

MAIN RATING: 225A MAIN C.B.: 150A

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	GROUND FLOOR FAN COIL UNITS	15	2	2	15	1ST FL FAN COIL UNITS	2
3							4
5	GROUND FLOOR FAN COIL UNITS	15	2	2	15	2ND FL FAN COIL UNITS	6
7							8
9	GROUND FLOOR FAN COIL UNITS	15	2	2	15	2ND FL FAN COIL UNITS	10
11							12
13	1ST FL FAN COIL UNITS	15	2	2	15	2ND FL FAN COIL UNITS	14
15							16
17	DATA 215 AC-A	@20	2	2	15	2ND FL FAN COIL UNITS	18
19							20
21	ELEV. 1 SUMP PUMP	&15	1	1	20	CP-1 - GROUND FLOOR	22
23	ELEV. 1 PIT LGT AND RECEPT	&20	1	1	20	CP-1 - GROUND FLOOR	24
25	ELEV. 2 SUMP PUMP	&15	1				26
27	ELEV. 2 PIT LGT AND RECEPT	&20	1	3	#50	RELOCATED KILN	28
29	1ST FL FAN COIL UNITS	15	2				30
31				-	-	-	32
33	-	-	-	-	-	-	34
35	-	-	-	-	-	-	36
37	-	-	-	-	-	-	38
39	-	-	-	-	-	-	40
41	EX. LOAD	20	1	1	20	EX. LOAD	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:
1. LOADS INDICATED IN BOLD ARE NEW. PROVIDE CIRCUIT BREAKERS AS INDICATED. ALL OTHER LOADS AND CIRCUIT BREAKERS ARE EXISTING TO REMAIN.
2. @ DENOTES DEM. 2P-15A CIRCUIT BREAKERS IN EXISTING PANELBOARD. UTILIZE SPACES MADE AVAILABLE DURING DEMOLITION FOR LOADS INDICATED.
3. & DENOTES UTILIZE EXISTING SPACE IN PANELBOARD AND PROVIDE CIRCUIT BREAKER INDICATED FOR LOAD INDICATED.
4. # DENOTES - PROVIDE A 3P-50A CIRCUIT BREAKER. MATCH TYPE AND RATING OF EXISTING CBs.

EX. PANELBOARD LP-1A

MAIN RATING: 100A MAIN C.B.: 50A

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	SPARE	@20	1	2	15	1ST FL FAN COIL UNITS	2
3	SPARE	@20	1				4
5	SPARE	@20	1	2	15	1ST FL FAN COIL UNITS	6
7	SPARE	@20	1				8
9	SPARE	@20	1	1	20	CONDENSATE PUMPS CP-1	10
11	SPARE	@20	1	1	20	CONDENSATE PUMPS CP-1	12
13	SPARE	@20	1	1	-	SPARE	14
15	SPARE	@20	1	1	-	SPARE	16
17	SPARE	@20	1	1	-	SPARE	18
19	SPARE	@20	1	1	-	SPARE	20

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:
1. LOADS INDICATED IN BOLD ARE NEW. PROVIDE CIRCUIT BREAKERS AS INDICATED. ALL OTHER LOADS AND CIRCUIT BREAKERS ARE EXISTING TO REMAIN.
2. @ DENOTES CIRCUITS MADE AVAILABLE DURING DEMOLITION.

PANELBOARD LB

MAIN RATING: 100A MAIN C.B.: 100A KAIC RATING: 42KAIC

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: RECESSED

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	AUTO FAUCET & FLUSHOMETERS	20	1	1	20	CORRIDOR 200A LGTS	2
3	HAND DRYER - TOIL 206	20	1	1	20	RM. 205,205A,206,208A LGTS	4
5	1ST FL SD & CFSD CKT	20	1	1	20	RM. 208-210 LGTS	6
7	2ND FL SD & CFSD CKT	20	1	1	20	RM. 200B,214A,215,216,216A,217 LGTS	8
9	REC - RESOURCE 217	20	1	1	20	RM. 200C,211,212,212A,213,214 LGTS	10
11	REC - RESOURCE 217	20	1	1	20	ELEV. 1 CAB LIGHT	12
13	REC - PSYCH 216	20	1	1	20	ELEV. 1 TOP OF SHAFT LGT & GFI	14
15	REC - CLASSROOM 214 & 214A	20	1	1	20	RM. EE1 RECEPT.	16
17	REC - OFFICE 216A	20	1	1	20	ELEV. 2 CAB LIGHT	18
19	BPS - SECOND FLOOR	20	1	1	20	ELEV. 2 TOP OF SHAFT LGT & GFI	20
21	GROUND FL SD & CFSD CKT	20	1	1	20	RM. EE2 RECEPT.	22
23	-	-	-	1	20	ELEVATOR SMOKE CURTAIN	24
25	-	-	-	1	20	ELEVATOR SMOKE CURTAIN	26
27	-	-	-	1	20	ELEVATOR SMOKE CURTAIN	28
29	-	-	-	1	20	ELEVATOR SMOKE CURTAIN	30
31	REC - CLASSROOM 205	20	1	-	-	-	32
33	REC - CLASSROOM 205	20	1	-	-	-	34
35	REC - CLASSROOM 205	20	1	1	20	INTERVENTION 212	36
37	REC - CLASSROOM 208	20	1	1	20	INTERVENTION 212	38
39	REC - CLASSROOM 208	20	1	1	20	REC - S/L 211	40
41	REC - CLASSROOM 208	20	1	1	20	REC - S/L 211	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

EX. PANELBOARD LP-2A

MAIN RATING: 100A MAIN C.B.: 50A

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	REC - CLASSROOM 202	@20	1	1	@20	SPARE	2
3	REC - CLASSROOM 202	@20	1	1	@20	SPARE	4
5	REC - CLASSROOM 201	@20	1	1	@20	SPARE	6
7	REC - CLOSET 202B	@20	1	1	@20	SPARE	8
9	AUTO FAUCET & FLUSHOMETER	@20	1	1	@20	SPARE	10
11	SPARE	@20	1	2	20	2ND FL FAN COIL UNITS	12
13	SPARE	@20	1				14
15	SPARE	@20	1	2	20	2ND FL FAN COIL UNITS	16
17	SPARE	@20	1				18
19	SPARE	@20	1	1	@20	SPARE	20

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:
1. LOADS INDICATED IN BOLD ARE NEW. PROVIDE CIRCUIT BREAKERS AS INDICATED. ALL OTHER LOADS AND CIRCUIT BREAKERS ARE EXISTING TO REMAIN.
2. @ DENOTES CIRCUITS MADE AVAILABLE DURING DEMOLITION.

REL PANELBOARD BA

MAIN RATING: 100A MAIN C.B.: 100A

VOLTAGE: 208Y/120V PHASE: 3 WIRE: 4 MOUNTING: SURFACE

CIRC. NO.	LOAD DESCRIPTION	BKR. AMPS	NO. OF POLES	NO. OF POLES	BKR. AMPS	LOAD DESCRIPTION	CIRC. NO.
1	STAIR A LGTS	@20	1				2
3	STAIR A LGTS	@20	1	3	100	MAIN	4
5	STAIR B LGTS	@20	1				6
7	STAIR B LGTS	@20	1				8
9	CORRIDOR 001A & VEST 000A LGTS	@20	1	3	20	EX. LOAD	10
11	RM. 002, 004, 004A LGTS	@20	1				12
13	RM. 000B, 000C, 005-008, 010-012 LGTS	@20	1	1	@20	AUTO FAUCET & FLUSHOMETER	14
15	COUNTER-TOP REC. - RM 008	@20	1	1	@20	ELEVATOR SMOKE CURTAIN	16
17	COPY RM. 007 DED. REC.	@20	1	1	@20	ELEVATOR SMOKE CURTAIN	18
19	COPY RM. 007 DED. REC.	@20	1	1	@20	SPARE	20
21	COPY RM. 007 DED. REC.	@20	1	1	20	REC - TOIL 006A & 007A	22
23	HAND DRYER - STAFF 007A	@20	1	1	20	REC - STAFF BREAK 008	24
25	REC - KILN 010A	20	1	1	20	REC - STAFF BREAK 008	26
27	REC - NURSE 006 (FRIDGE)	20	1	1	20	REC - STAFF ROOM & STAFF BREAK	28
29	REC - NURSE 006	20	1	1	20	REC - CUST 005 & CORR 001A	30
31	REC - NURSE 006	20	1	1	20	REC - CLASSROOM 002	32
33	REC - PT 012	20	1	2	60	EX. LOAD	34
35	REC - CLASSROOM 002	20	1				36
37	REC - CLASSROOM 002	20	1	-	-	REC - CLASSROOM 004	38
39	REC - CORRIDOR 001A	20	1	-	-	REC - CLASSROOM 004	40
41	BPS - GROUND FLOOR	20LK	1	-	-	REC - CLASSROOM 004	42

LK - PROVIDE LOCKING TABS ON C.B.; GF - GFI TYPE C.B.; GP - GFP TYPE C.B.;
AF - ARC FAULT TYPE C.B.; ST - SHUNT TRIP C.B.

NOTES:
1. LOADS INDICATED IN BOLD ARE NEW. PROVIDE CIRCUIT BREAKERS AS INDICATED. ALL OTHER LOADS AND CIRCUIT BREAKERS ARE EXISTING TO REMAIN.
2. @ DENOTES CIRCUITS MADE AVAILABLE DURING DEMOLITION.

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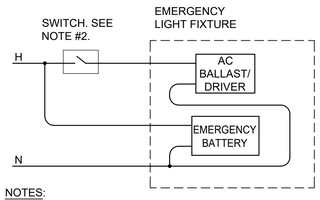
NYSED PROJECT CONTROL No.
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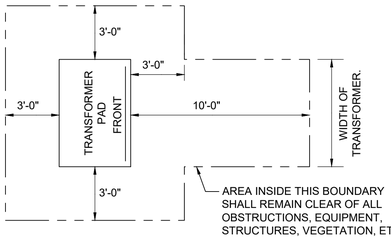
SHEET TITLE
ELECTRICAL PANELBOARD SCHEDULES

SHEET No.
E604



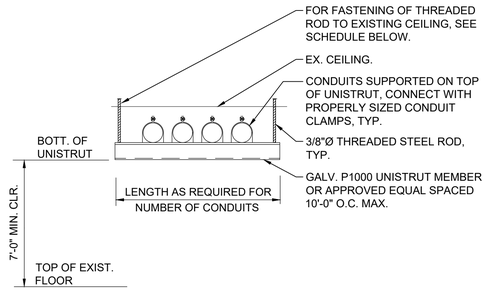
NOTES:
1. THE CONNECTION TO THE LAMPS IS NOT SHOWN - FOLLOW MANUFACTURER WIRING DIAGRAMS.
2. "SWITCH" REPRESENTS A SINGLE POLE SWITCH, A SET OF CONTACTS, A COMBINATION OF 3 WAY AND 4 WAY SWITCHES, ETC. SEE DRAWINGS FOR ACTUAL SWITCH CONFIGURATION.

12 SWITCHED EMERGENCY FIXTURE WIRING DIAGRAM
SCALE: NONE



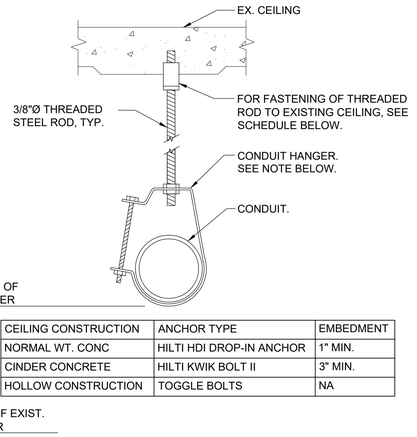
TRANSFORMER CLEARANCE NOTES:
1. AREA IN FRONT OF DOOR TO BE CLEAR OF ALL ROCKS, STUMPS AND OTHER OBSTRUCTIONS SO THAT THE OPERATOR HAS A SAFE, LEVEL WORKING AREA.
2. UTILITY COMPANY SHALL HAVE THE RIGHT TO CUT BACK GROWING BUSHES TO WITHIN STATED CLEARANCES.

11 CLEARANCE AROUND TRANSFORMER PAD
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

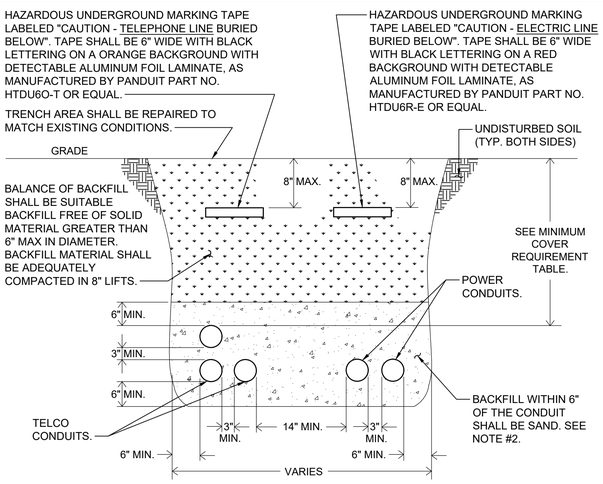
10 TRAPESE SUPPORT DETAIL
SCALE: NONE



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

NOTE: CLEVIS HANGERS REQUIRED ON PIPING LARGER THAN 1". GENERAL PURPOSE HANGERS MAY BE USED ON PIPING 1" OR SMALLER.

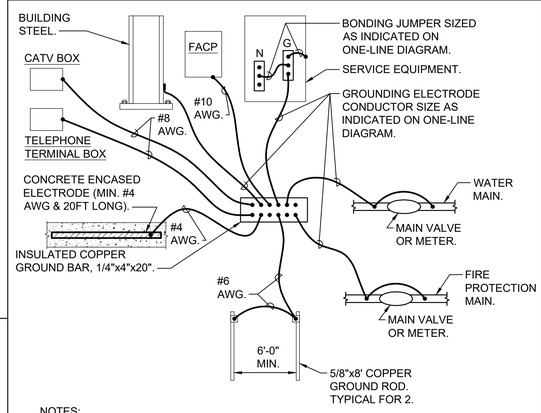
9 SINGLE CONDUIT HANGER DETAIL
SCALE: NONE



8 TRENCHING DETAIL FOR CONDUIT
SCALE: NONE

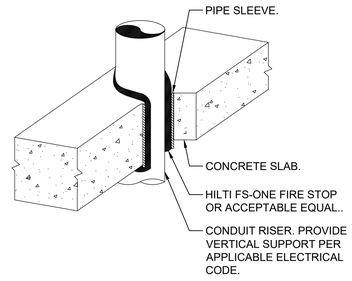
MINIMUM COVER REQUIREMENT TABLE	
LOCATION	NONMETALLIC RACEWAYS LISTED FOR DIRECT BURIAL WITHOUT CONCRETE ENCASEMENT OR OTHER APPROVED RACEWAYS
ALL LOCATION NOT SPECIFIED BELOW.	18"
IN TRENCH BELOW 2-IN. THICK CONCRETE OR EQUIVALENT.	12"
UNDER MINIMUM OF 4-IN. THICK CONCRETE EXTERIOR SLAB WITH NO VEHICULAR TRAFFIC AND THE SLAB EXTENDING NOT LESS THAN 6 IN. BEYOND THE UNDERGROUND INSTALLATION.	4" SEE NOTE #2.
UNDER STREETS, HIGHWAYS, ROADS, ALLEYS, DRIVEWAYS, AND PARKING LOTS.	24"

NOTES:
1. DETAIL SHOWN FOR INFORMATION PURPOSES. SAME CONCEPT SHALL ALSO APPLY FOR SINGLE CONDUITS.
2. SAND MAY BE OMITTED FOR INSTALLATIONS WHERE COVER REQUIREMENTS ARE 6" OR LESS.

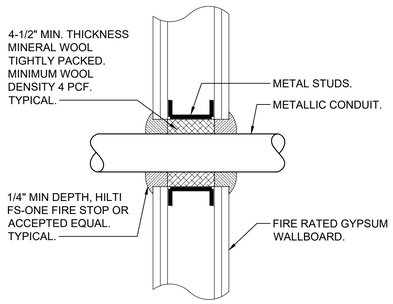


NOTES:
1. CONNECTION TO WATER MAIN AND FIRE PROTECTION MAIN SHALL BE A MAXIMUM OF 5'-0" FROM WHERE THE PIPE ENTERS THE BUILDING AND BE PRIOR TO ANY METER, VALVE JOINT, ETC.
2. ALL CONNECTIONS TO THE GROUND BAR SHALL BE MADE USING COMPRESSION LUGS SIZED TO ACCOMODATE THE CONDUCTORS.
3. GROUNDING ELECTRODE CONDUCTORS SHALL BE ONE CONTINUOUS LENGTH WITHOUT SPLICES WHERE POSSIBLE. IF SPLICES ARE REQUIRED, THEY SHALL BE IRREVERSIBLE COMPRESSION TYPE CONNECTORS OR BY EXOTHERMIC WELD.
4. GROUNDING ELECTRODE CONDUCTORS ROUTED THROUGH METALLIC RACEWAYS OR ENCLOSURES SHALL BE BOUNDED AT EACH END TO THE RACEWAY OR ENCLOSURE.

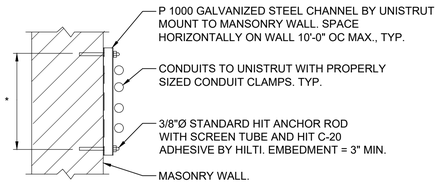
7 SERVICE GROUNDING DETAIL
SCALE: NONE



6 TYPICAL VERTICAL CONDUIT PENETRATION DETAIL
SCALE: NONE

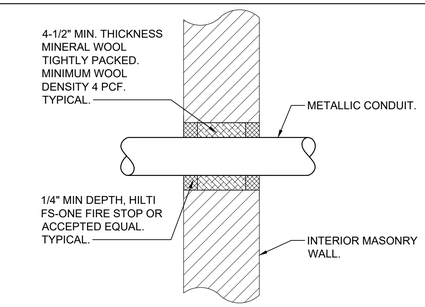


5 TYPICAL FIRE RATED GYPSUM WALL CONDUIT PENETRATION DETAIL
SCALE: NONE

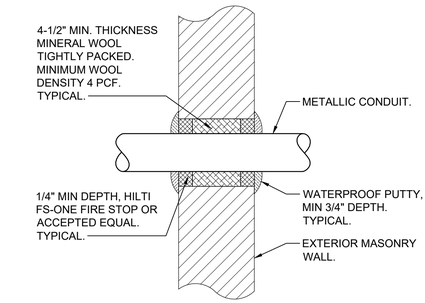


* LENGTH AS REQUIRED FOR NUMBER OF CONDUITS

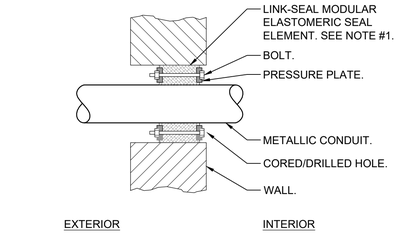
4 TYPICAL CONDUIT SUPPORT ON MASONRY DETAIL
SCALE: NONE



3 TYPICAL INTERIOR MASONRY WALL CONDUIT PENETRATION DETAIL
SCALE: NONE



2 TYPICAL EXTERIOR MASONRY WALL ABOVE GRADE CONDUIT PENETRATION DETAIL
SCALE: NONE



NOTES:
1. SEAL ASSEMBLY BASED ON MODEL "C" LINK-SEAL MODULAR SEAL, WITH EPDM SEAL ELEMENT, REINFORCED NYLON POLYMER PRESSURE PLATES, STEEL WITH 2-PART ZINC DICHROMATE & CORROSION INHIBITING COATING NUTS AND BOLTS AND WITH A OPERATING TEMPERATURE RANGE OF -40°F TO +250°F.
2. PROVIDE AND INSTALL TWO SEALS WHEN PENETRATED WALL THICKNESS IS GREATER THAN 12".
3. PROVIDE SCHEDULE 80 WALL SLEEVE FOR NEW WALL CONSTRUCTION PER MANUFACTURER'S REQUIREMENTS.

1 TYPICAL EXTERIOR MASONRY WALL BELOW GRADE CONDUIT PENETRATION DETAIL
SCALE: NONE

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66-16-01-03-0-004-014

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CONSTRUCTION DOCUMENTS
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PROJECT No.
NKGD0292.00

SHEET TITLE
ELECTRICAL DETAILS

SHEET No.
E701

15 KV CABLE TESTING:

1. REFERENCES: ANSI/IEEE C2 - NATIONAL ELECTRICAL SAFETY CODE, ANSI/NFPA 70 - NATIONAL ELECTRICAL CODE, IEEE 48 - TEST PROCEDURES AND REQUIREMENTS FOR HIGH-VOLTAGE ALTERNATING-CURRENT CABLE TERMINATIONS.

2. SUBMITTALS: PROVIDE FOR CABLE, TERMINATIONS, ACCESSORIES & TEST REPORTS. MANUFACTURER'S INSTRUCTIONS: INDICATE APPLICATION CONDITIONS AND LIMITATIONS OF USE STIPULATED BY PRODUCT TESTING AGENCY SPECIFIED UNDER REGULATORY REQUIREMENTS.

3. PROJECT RECORD DOCUMENTS: ACCURATELY RECORD ACTUAL SIZES AND LOCATIONS OF CABLES.

4. OPERATION AND MAINTENANCE DATA: INCLUDE INSTRUCTIONS FOR TESTING AND CLEANING CABLE AND ACCESSORIES.

5. QUALIFICATIONS: MANUFACTURER, COMPANY SPECIALIZING IN MANUFACTURING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE. INSTALLER, COMPANY SPECIALIZING IN INSTALLING PRODUCTS SPECIFIED IN THIS SECTION WITH MINIMUM THREE YEARS DOCUMENTED EXPERIENCE.

6. MANUFACTURERS: 1) OKONITE COMPANY, 2) KING WIRE INC., 3) KERITE.

7. FIELD QUALITY CONTROL: INSPECT EXPOSED CABLE SECTIONS FOR PHYSICAL DAMAGE, PROPER CONNECTIONS AS SHOWN ON DRAWINGS AND AS REQUIRED, GROUNDING, CABLE SUPPORTS, AND TERMINATIONS FOR PROPER INSTALLATION. PERFORM DC HIGH POTENTIAL TEST OF EACH CONDUCTOR IN ACCORDANCE WITH NEMA WC 8 AND THE FOLLOWING REQUIRED TESTS.

8. THE 15KV CABLE SHALL BE DC PROOF TESTED BY AN INDEPENDENT TESTING FIRM. THE ATTACHED DC PROOF TESTING FORM SHALL BE COMPLETED BY THE TESTING FIRM AND SUBMITTED FOR REVIEW.

9. TEST LEVELS: A DIRECT-CURRENT VOLTAGE TEST SHALL BE MADE FOR SOLID DIELECTRIC CABLE IN ACCORDANCE WITH THE FOLLOWING TABLE:

RATED CIRCUIT VOLTAGE PHASE TO PHASE KV	DC TEST VOLTAGE KV
15	40

   A. THE VOLTAGE SHALL BE APPLIED BETWEEN THE CONDUCTOR AND THE METALLIC SHEATH, SHIELD OR CONCENTRIC NEUTRAL WIRES.

   B. THE MAXIMUM APPLIED DIRECT-CURRENT VOLTAGE SHALL NOT BE GREATER THAN THREE (3) TIMES THE ALTERNATING CURRENT VOLTAGE RATING OF THE CABLE OR CABLE ACCESSORY.

   C. THE RATE OF INCREASE FROM THE INITIALLY APPLIED VOLTAGE TO THE SPECIFIED TEST VOLTAGE SHALL BE APPROXIMATELY UNIFORM AND SHALL NOT BE OVER 100 PERCENT IN 10 SECONDS OR LESS THAN 100 PERCENT IN 60 SECONDS.

   D. THE DURATION OF THE TEST SHALL BE 15 MINUTES AT FULL VOLTAGE AND THE LEAKAGE CURRENT SHALL NOT BE RECORDED UNTIL AT FULL VOLTAGE. THE CABLE MUST MAINTAIN THE SPECIFIED TEST VOLTAGE FOR THE DURATION OF THE TEST TO BE CONSIDERED ACCEPTABLE.

10. PREPARATION FOR TESTING: THE INDEPENDENT TESTING COMPANY PERSONNEL SHALL COMPLY WITH THE FOLLOWING MINIMUM REQUIREMENTS:

   A. SAFETY - (TO PRECLUDE ACCIDENTAL CONTACT WITH THE CABLE(S) BEING TESTED)

      a. THE TEST AREA AND THE CABLE (S) UNDER TEST SHALL BE ROPED OFF.

      b. "DANGER-HIGH VOLTAGE" SIGNS SHALL BE DISPLAYED AROUND ALL ROPED OFF AREAS.

      c. TEST PERSONNEL SHALL BE STATIONED AT ALL EXPOSED CABLE TERMINATIONS.

   B. CLEARANCES - THE CABLE UNDER TEST MUST BE COMPLETELY ISOLATED FROM ALL EQUIPMENT.

      a. TO REDUCE LEAKAGE CURRENT DURING TESTING, CLEAN THE TERMINATIONS AND COVER ANY EXPOSED METALLIC SURFACES WITH PLASTIC WRAP OR DUCT SEAL TO REDUCE CORONA EFFECTS.

      b. MAINTAIN A CLEARANCE OF AT LEAST TWO FEET BETWEEN TEST POINT OR EXPOSED CABLE ENDS UNDER TEST AND ANY UNENERGIZED SURFACE AND AT LEAST THREE FEET BETWEEN TEST POINT OR EXPOSED CABLE ENDS AND ANY ENERGIZED SURFACE (BUS IN SWITCHGEAR, OTHER CIRCUITS OR CABLES, ETC.)

11. GROUNDING:

   A. THE METALLIC SHIELDS (CONCENTRIC NEUTRALS, COPPER OR ZINC TAPES, DRAIN WIRES) OR METALLIC SHEATHS OF SHIELDED CABLE MUST BE GROUNDED DURING THE TEST.

   B. CABLES NOT UNDER TEST MUST BE GROUNDED ON BOTH CONDUCTORS AND METALLIC SHEATHS.

   C. AFTER EACH CABLE TEST THE CABLE SHALL BE ALLOWED TO DISCHARGE TO 10KV OR BELOW BEFORE APPLYING A GROUND. AN APPROPRIATE GROUNDING STICK OR RUBBER GLOVE SHALL BE USED AND/OR WORN WHEN APPLYING THE GROUND. GROUND MUST REMAIN ON FOR AT LEAST 15 MINUTES TO DRAIN CHARGE FROM TESTING.

12. CONNECTIONS

   A. ALL BOLTED TERMINATIONS SWITCHES SHALL BE UNBOLTED AND PULLED INTO CLEARANCES AS NOTED ABOVE.

   B. ALL LEADS EXTENDING FROM THE TOP OF ANY TERMINATION TO OVERHEAD LINES MUST BE REMOVED AND THE TERMINATION LOWERED TO OBTAIN ADEQUATE CLEARANCE.

13. SAMPLE: REPORTING FORM - DC PROOF TESTING

REPORTING FORM - DC PROOF TESTING

TESTING COMPANY NAME_____

CUSTOMER_____

LOCATION_____

DATE OF TEST____ TESTER'S NAME_____

HUMIDITY____% TEMPERATURE_____

WEATHER: CLOUDY__ RAIN__ SNOW__

FOG__ SUNNY__

PHASE IDENTIFICATION			
KV TEST VOLTAGE			
MICROAMPERES	μ	μ	μ
TEST SET LEAKAGE			
15 SECONDS			
30 SECONDS			
45 SECONDS			
1 MINUTE			
2 MINUTES			
3 MINUTES			
4 MINUTES			
5 MINUTES			
6 MINUTES			
7 MINUTES			
8 MINUTES			
9 MINUTES			
10 MINUTES			
11 MINUTES			
12 MINUTES			
13 MINUTES			
14 MINUTES			
15 MINUTES			

CABLE MANUFACTURER: _____

CABLE RELATED VOLTAGE: _____

OPERATING VOLTAGE: _____

CONDUCTOR SIZE: _____

TYPE OF INSULATION: _____

NUMBER OF CONDUCTORS: _____

LENGTH: _____

AGE: _____

TYPE OF JACKET: _____

SEPARATE NEUTRAL: _____

OR

CONCENTRIC NEUTRAL WIRES: _____

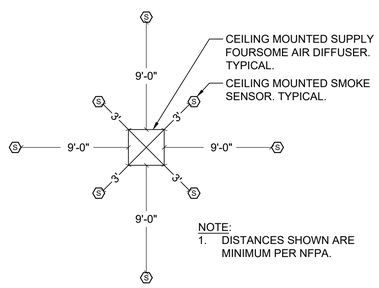
TYPE OF TERMINATIONS AT TEST END: _____

TYPE OF TERMINATIONS AT OPPOSITE END: _____

REMARKS: _____

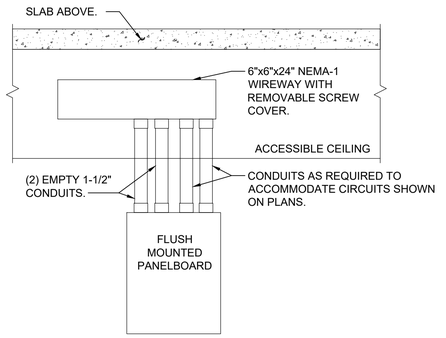
14. PROTECTION:

   A. PROTECT INSTALLED CABLES FROM ENTRANCE OF MOISTURE.



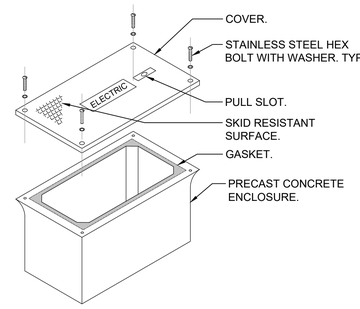
NOTE:
1. DISTANCES SHOWN ARE MINIMUM PER NFPA.

4 CEILING MOUNTED SMOKE DETECTOR LOCATION WITH RESPECT TO AIR DIFFUSER
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.

3 FLUSH MOUNTED PANELBOARD DETAIL
SCALE: NONE

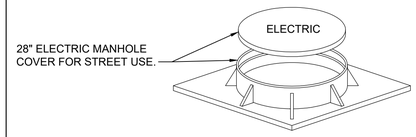


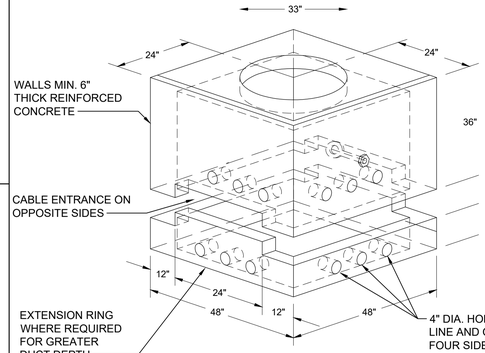
NOTES:
1.) HAND HOLE SHALL BE 36"L x 30"W x 24"H WITH OPEN BOTTOM AND RATED FOR VEHICULAR TRAFFIC TIER AS MANUFACTURED BY HUBBELL-QUAZITE, MODEL #PG3036Z28609 OR EQUAL. BOX SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURER'S INSTRUCTIONS.

2.) PROVIDE 6" OF GRAVEL BELOW BOX.

3.) COVER SHALL BE IMPRINTED WITH THE APPROPRIATE DESCRIPTION OF BOX CONTENTS (I.E. ELECTRIC, TELEPHONE, DATA, CABLE TV, ETC.).

2 HAND HOLE DETAIL
SCALE: NONE





NOTES:
1. ELECTRIC MANHOLE SHALL BE REINFORCED CONCRETE (VEHICLE TRAFFIC H-20) 4'-0 X 4'-0 X 4'-0 (INTERIOR) WITH 6" GRADE RING AND CAST IRON FRAME AND COVER. COVER SHALL BE IMPRINTED WITH THE WORD "ELECTRIC". UNITS SHALL BE INSTALLED IN ACCORDANCE WITH MANUFACTURERS INSTRUCTIONS ALL MANHOLE COVER FRAMES SHALL BE GROUNDED USING EXOTHERMIC WELDS. BOND FRAME TO DRIVEN GROUND ROD WITHIN THE MANHOLE. PROVIDE STEEL RACKS WITH PORCELAIN INSULATORS TO SUPPORT CABLING IN MANHOLES. ALL STEEL SHALL BE GROUNDED TO THE DRIVEN GROUND ROD INSIDE THE MANHOLE. THE DRIVEN ROD SHALL BE 10'-0" LONG, 3/4" DIAMETER AND INSTALLED THROUGH THE MANHOLE FLOOR.
2. CONCRETE TO BE 5000# HIGH EARLY STRENGTH.
3. CAST IRON MANHOLE COVER.
4. EQUIP MANHOLE WITH A PULLING HOOK OPPOSITE EACH CONDUIT ENTRANCE.
5. WATERPROOFING FOR BRICKED-UP THROAT: ELASTIC BITUMINOUS PLASTIC CEMENT (COALTAR BASE) CONFORMING TO FED. SPEC. SS-C-153 TYPE II.

1 4' X 4' X 4' PRECAST CONCTRETE MANHOLE
SCALE: NONE

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consulting engineers

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NYSED PROJECT CONTROL No.
66-16-01-03-0-004-014

DATE: 11/12/2026
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PROJECT No.
NKGD0292.00

SHEET TITLE
ELECTRICAL DETAILS

SHEET No.
E702

LOW VOLTAGE RESPONSIBILITY SCOPE OF WORK MATRIX

ABBREVIATIONS:

(DA) DAY AUTOMATION QUOTED TO DISTRICT ON NYS CONTRACT
(EC) ELECTRICAL CONTRACTOR
(GC) GENERAL CONTRACTOR
(DIS) SCHOOL DISTRICT

SYSTEM	SYSTEM FURNISH BY	SYSTEM INSTALLED BY	LV CABLE FURNISH BY	POWER/BACKBOX PROVIDED BY	FACE PLATES/JACKS PROVIDED BY	LV CABLING INSTALLED BY	TERMINATION /TESTING OF LV CABLING BY	PROGRAMMED BY	
VIDEO SURVEILLANCE SYSTEM - VIDEO CAMERAS	DA	DA	DA	DA	DA	DA	DA	DA	
SPEAKERS/CLOCK	DA	DA	DA	DA	DA	DA	DA	DA	
TELEPHONE	DIS	EC	EC	EC	EC	EC	EC	DIS	
NETWORK SWITCHES/SERVERS/RACKS	DIS	DIS	DIS	EC	EC	EC	DIS	DIS	
ACCESS CONTROL SYSTEM (SEE NOTE #6 BELOW)	-	-	-	-	-	-	-	-	
ACCESS CONTROL PANELS	DA	DA	DA	EC	DA	DA	DA	DA	
PROXIMITY CARD READERS	DA	DA	DA	EC	EC	DA	DA	DA	
DOOR CONTACTS (1 PER DOOR LEAF)	DA	DA	DA	EC	EC	DA	DA	DA	
REQUEST TO EXIT SENSORS	DA	DA	DA	EC	EC	DA	DA	DA	
ADA INTERFACE PANELS	GC	EC	EC	EC	EC	EC	EC	GC	
ELECTRIC DOOR HARDWARE (SEE NOTE #6 BELOW)	-	-	-	-	-	-	-	-	
ELECTRIC STRIKES (SEE NOTE #5 BELOW)	GC	EC	GC	EC	EC	EC	EC	DA	
ELECTRIC TRIM (1 PER DOOR LEAF) (SEE NOTE #5 BELOW)	GC	EC	GC	EC	EC	EC	EC	DA	
ELECTRIC LATCH RETRACTION & PS (SEE NOTE #5 BELOW)	GC	EC	GC	EC	EC	EC	EC	DA	
INTERCOM	DA	DA	DA	-	-	DA	DA	DA	
WIRELESS ACCESS POINTS (WAP)	DIS	EC	EC	EC	EC	EC	EC	DIS	

NOTES:

1.) GC TO COORDINATE WITH FURNITURE VENDOR FOR FINAL LOCATIONS OF FLOOR CORES PRIOR TO DRILLING.

2.) GC TO COORDINATE WITH IT & NETWORK VENDOR ON ALL ASSOCIATED POWER AND DATA REQUIREMENTS AND LOCATIONS. NOTIFY ARCHITECT OF ANY DISCREPENCIES PRIOR TO PROCEEDING WITH ROUGH-IN.

3.) GC TO COORDINATE CONDUIT SIZING AND POWER AND DATA REQUIREMENTS OF SCHEDULED EQUIPMENT.

4.) REFER TO LOW VOLTAGE WIRING NOTES ON DWG. E001 FOR MORE INFORMATION.

5.) ACCESS CONTROL AND HARDWARE DEVICES INDICATED TO BE LOCATED AT EACH DOOR WITH A CARD READER.

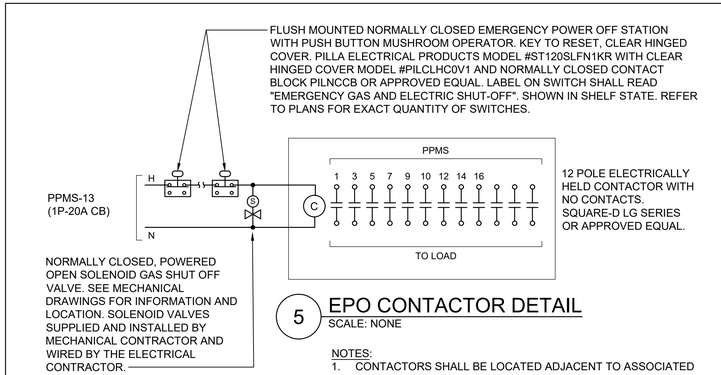
EQUIPMENT SPECIFICATION NOTES:

1.) OFFICE DESK PHONES IS IP BASED AND SHALL BE CISCO IP PHONE 7841 OR APPROVED EQUAL. COORDINATE WITH DISTRICT.

2) CLASSROOM WALL PHONES IS IP BASED AND SHALL BE CISCO IP PHONE 6901 OR APPROVED EQUAL. COORDINATE WITH DISTRICT.

3.) WIRELESS ACCESS POINTS SHALL BE CISCO CATALYST 9115 AP OR APPROVED EQUAL. COORDINATE WITH DISTRICT.

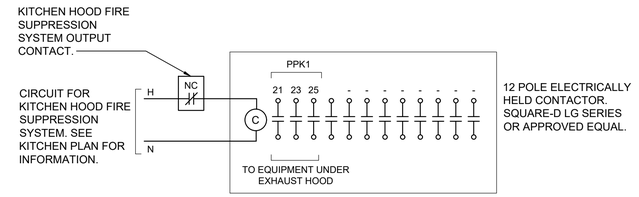
4.) FIBER OPTIC CABLE SHALL BE 12-STRAND 62.5/125 OUTDOOR MULTIMODE CABLE OR APPROVED EQUAL.



5 EPO CONTACTOR DETAIL

SCALE: NONE

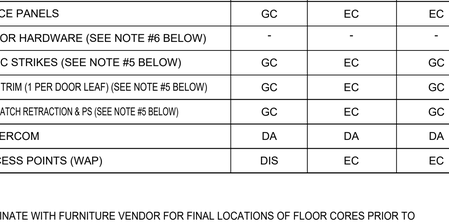
NOTES:
1. CONTACTORS SHALL BE LOCATED ADJACENT TO ASSOCIATED PANELBOARD U.O.N.
2. CONTACTORS SHALL BE INSTALLED IN NEMA-1 ENCLOSURES EQUIPPED WITH LOCKABLE HINGED COVERS.



KITCHEN EQUIPMENT SHUTDOWN CONTACTOR WIRING DIAGRAM

2 SCALE: NONE

NOTES:
1. CONTACTS UTILIZED IN CONTACTOR SHALL BE NORMALLY OPEN.
2. KITCHEN HOOD FIRE SUPPRESSION SYSTEM OUTPUT CONTACTS SHALL BE OPEN UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM.
3. CONTACTOR SHALL BE LOCATED ADJACENT TO PANELBOARD U.O.N.
4. CONTACTOR SHALL BE INSTALLED IN A NEMA-1 ENCLOSURE EQUIPPED WITH LOCKABLE HINGED COVER.

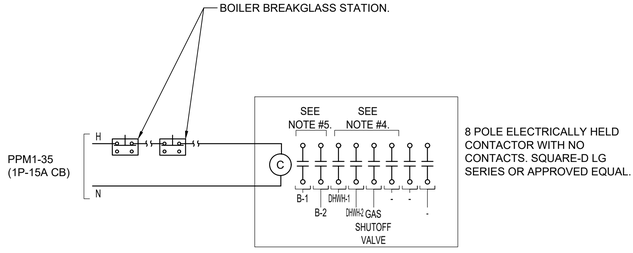


4 TYPICAL ADA DOOR OPERATOR WIRING DIAGRAM

SCALE: NONE

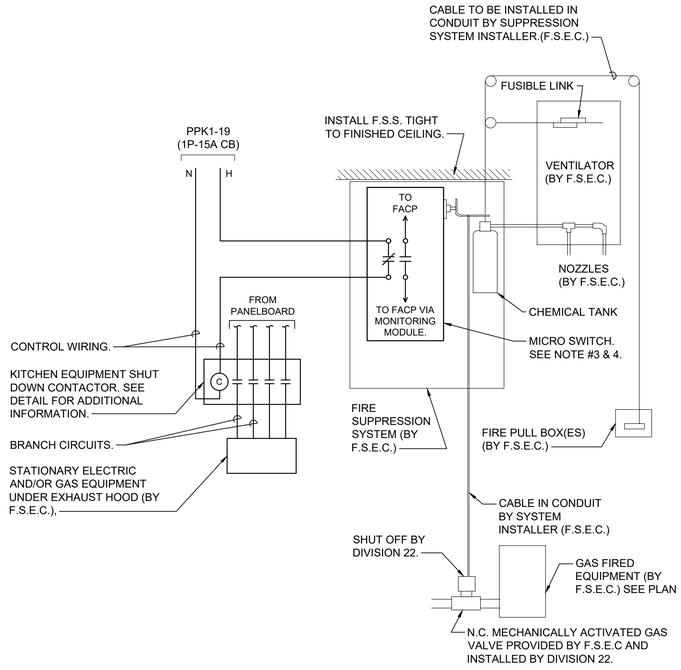
NOTES:
1. ELECTRICAL CONTRACTOR RESPONSIBLE TO PROVIDE ALL LINE AND LOW VOLTAGE CONTROL WIRING FOR ADA DOOR OPERATORS AS PER MANUFACTURER'S INSTRUCTIONS. ADA DOOR OPERATORS AND DEVICES TO BE FURNISHED BY THE GENERAL CONTRACTOR AND INSTALLED BY THE ELECTRICAL CONTRACTOR.
2. COORDINATE ALL LOCATIONS WITH ARCHITECT.

NOTES:
1. ALL EQUIPMENT AND WIRING ASSOCIATED WITH THIS DIAGRAM SHALL BE PROVIDED AND INSTALLED BY THE ELECTRICAL CONTRACTOR UON.
2. CONTACTOR SHALL BE INSTALLED IN A NEMA-1 ENCLOSURE EQUIPPED WITH A LOCKABLE HINGED COVER.
3. BOILER BREAKGLASS STATIONS SHALL BE AS MANUFACTURED BY SQUARE-D, TYPE 9001KYK117 OR APPROVED EQUAL.
4. SEE ELECTRICAL PLANS FOR BRANCH CIRCUITRY INFORMATION.
5. INTERCEPT SOURCE OF POWER TO EACH MOTOR CONTROL CIRCUIT AND ROUTE CIRCUIT THRU CONTACTOR. ALL WIRING TO BE 2-#12 UON. COORDINATE WITH MECHANICAL CONTRACTOR.
6. ALL RELAYS TO BE INSTALLED IN NEMA-1 ENCLOSURES.



3 BOILER EMERGENCY SHUTDOWN WIRING DIAGRAM

SCALE: NONE



1 TYPICAL KITCHEN FIRE SUPPRESSION SYSTEM

SCALE: NONE

NOTES:
1.) ALL EQUIPMENT TO BE FURNISHED BY AND ALL WORK TO BE PERFORMED BY ELECTRICAL CONTRACTOR U.O.N.

2.) FSEC = FOOD SERVICE EQUIPMENT CONTRACTOR.
FSS = FIRE SUPPRESSION SYSTEM.

3.) MICRO SWITCH CONTACTS FOR EQUIPMENT SHUT DOWN SHALL OPEN UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM.

4.) MICRO SWITCH CONTACTS FOR FIRE ALARM CONTROL PANEL NOTIFICATION SHALL CLOSE UPON ACTIVATION OF FIRE SUPPRESSION SYSTEM.

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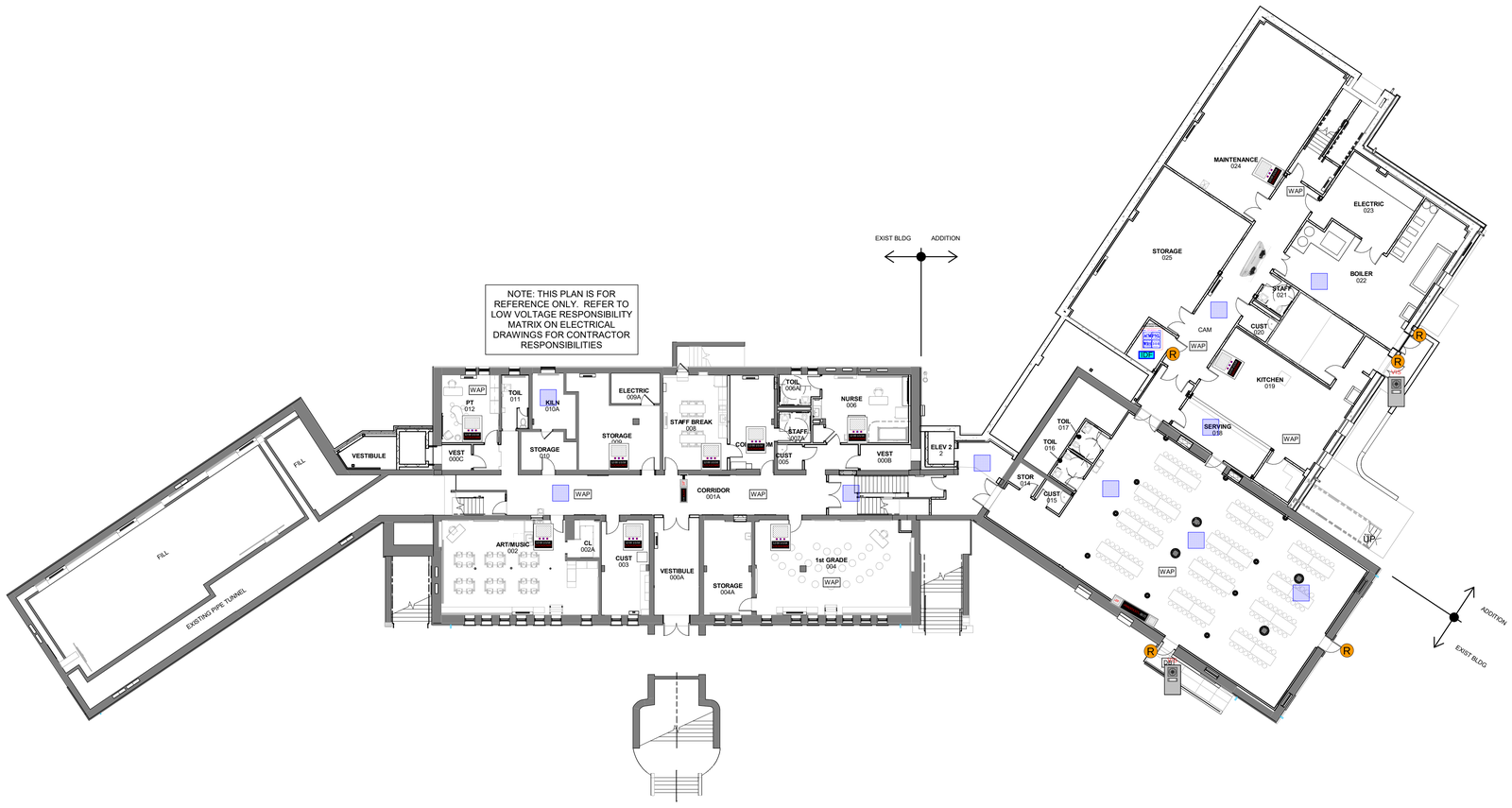
PROJECT No.
NKGD0292.00

SHEET TITLE
ELECTRICAL DETAILS

SHEET No.
E703

Siwanoy Elementary- Security Additions by Stark Tech

Description	Quantity	Unit
Avigilon- dual head interior camera	1	Count
Critical Response Panel (for Avigilon ACM)	1	Count
IP Intercoom door station	2	Count
IPCDS-RWB 18" IP 2 Sided Hall Clock	1	Count
IPSCM Ceiling Tile IP Speaker	10	Count
IPSIGNL-RWB 48" Large IP Sign Board	1	Count
IPSWD-RWB 13x15" WHITE Classroom Surface Speaker	10	Count
Proposed Access Door	5	Count



1 GROUND FLOOR LOW VOLTAGE PLAN
1/16" = 1'-0"

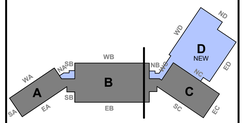
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KEY PLAN



PROJECT NORTH

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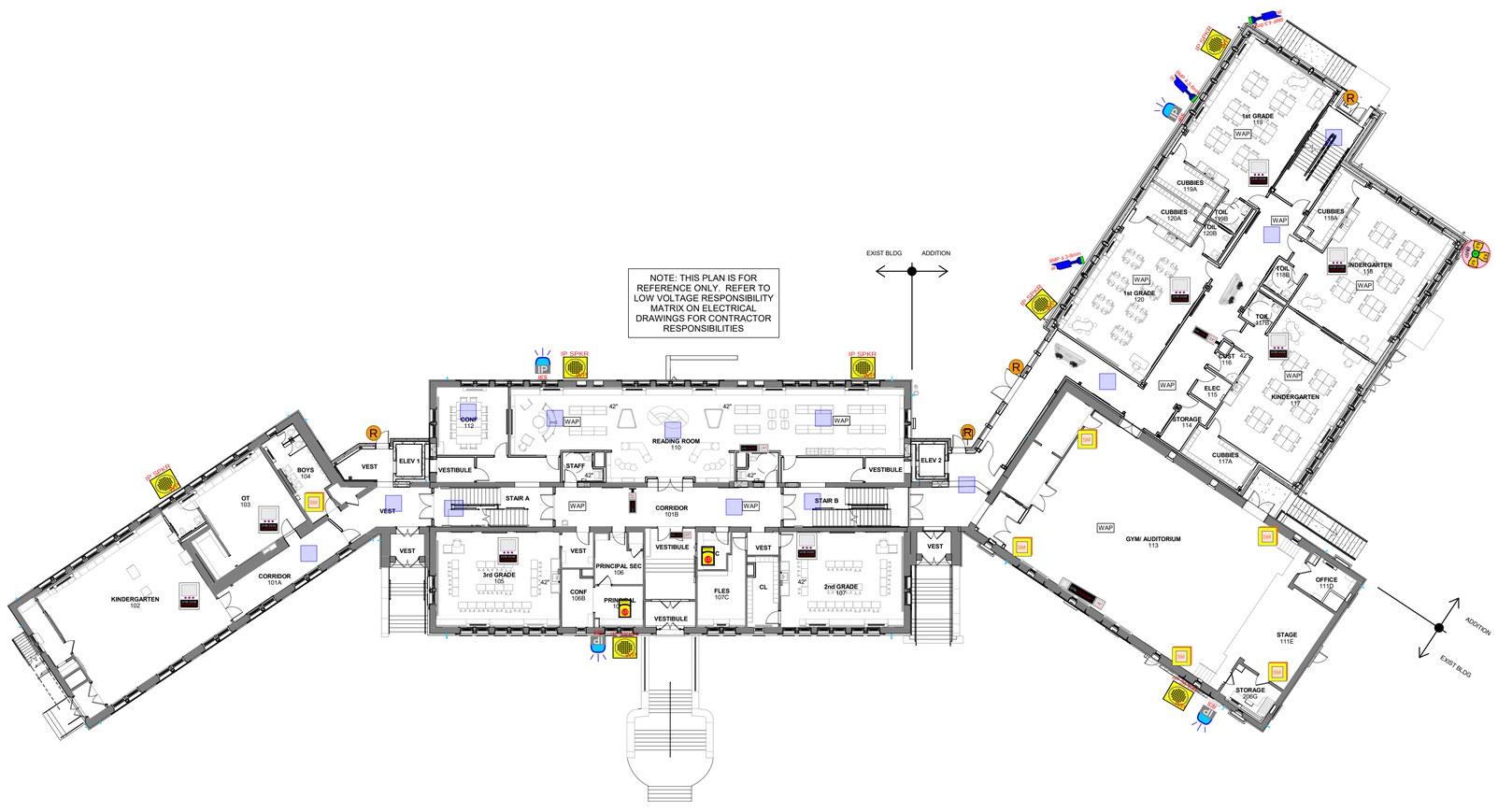
GROUND FLOOR LOW VOLTAGE PLAN

SHEET No.

LV100

Siwanoy Elementary- Security Additions by Stark Tech

Description	Quantity	Unit
8MP H4 Multisensor-180 Deg. Surface WITH IR PKG	1	Count
Avigilon- dual head interior camera	2	Count
Avigilon 8MP 4.3-8mm Bullet Camera	3	Count
IP Evacuation Strobe	4	Count
IPCDS-RWB 18" IP 2 Sided Hall Clock	2	Count
IPSCM Ceiling Tile IP Speaker	13	Count
IPSIGNL-RWB 48" Large IP Sign Board	1	Count
IPSWD-RWB 13x15" WHITE Classroom Surface Speaker	8	Count
IPSWS-SM-O-IC Outdoor Surface Mount IP Speaker (White)	7	Count
IPSWS-SM 12x12 Surface IP Speaker	6	Count
Proposed Access Door	4	Count



1 FIRST FLOOR LOW VOLTAGE PLAN
1/16" = 1'-0"

Stark TECH

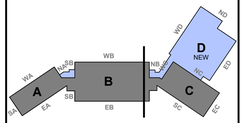
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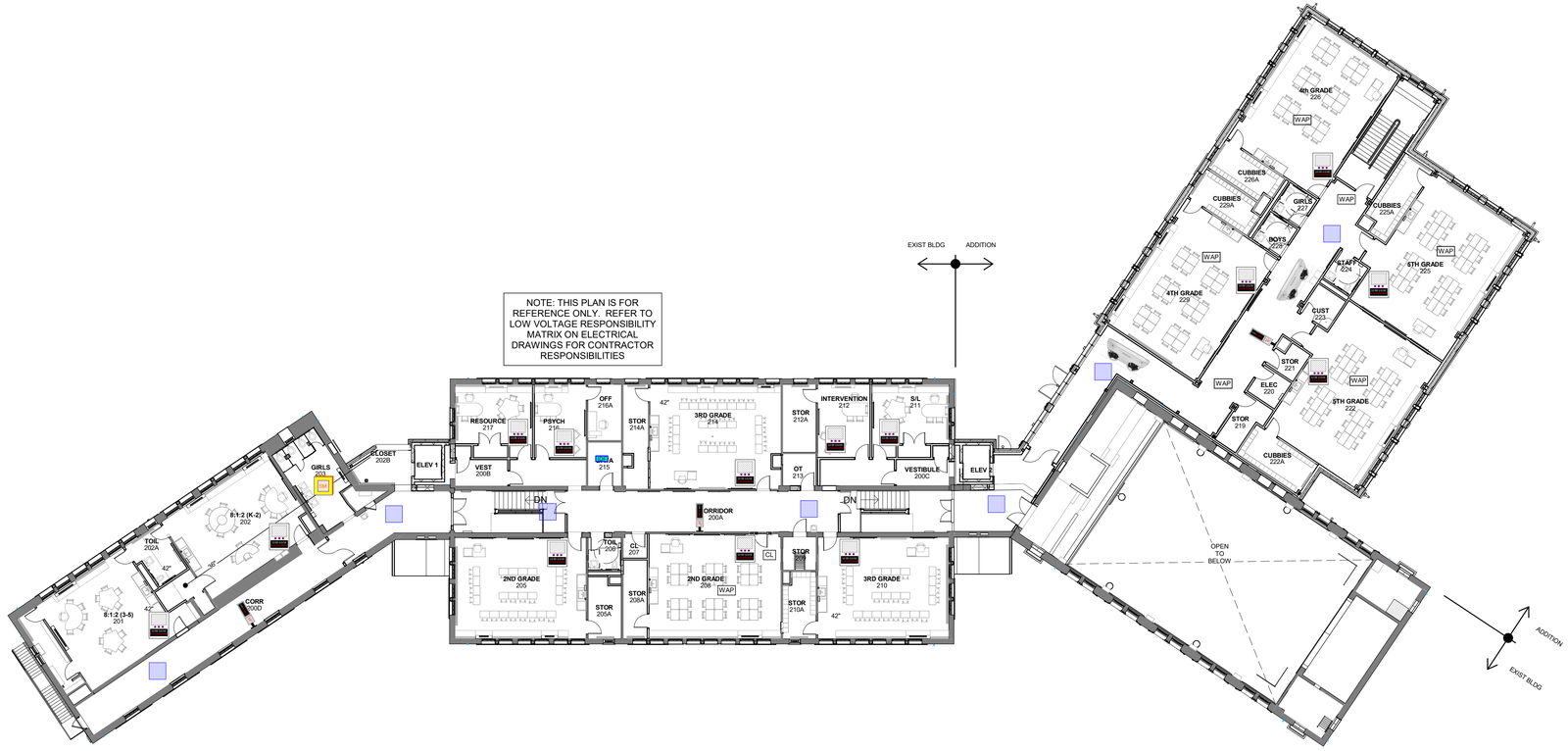
FIRST FLOOR LOW VOLTAGE PLAN

SHEET No.

LV101

Siwanoy Elementary- Security Additions by Stark Tech

Description	Quantity	Unit
10.0C-H5DH-DO1-IR	2	Count
IPCDS-RWB 18" IP 2 Sided Hall Clock	3	Count
IPSCM Ceiling Tile IP Speaker	7	Count
IPSWD-RWB 13x15" WHITE Classroom Surface Speaker	14	Count
IPSWS-SM 12x12 Surface IP Speaker	1	Count



1 SECOND FLOOR LOW VOLTAGE PLAN
1/16" = 1'-0"

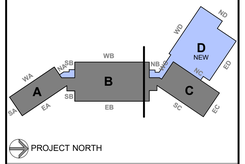
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SECOND FLOOR LOW VOLTAGE PLAN

SHEET No.

LV102