

PA UNIFORM CONSTRUCTION CODE (PA UCC 34 PA CODE CHAPTERS 401-405) 2018 INTERNATIONAL BUILDING CODE (IBC) 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC) 2021 INTERNATIONAL BUILDING CODE (IBC) (LIMITED TO CH 11 ACCESSIBILITY PROVISIONS) 2018 INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2018 INTERNATIONAL FIRE CODE (IFC) (ADOPTED ONLY TO EXTENT REFERENCED IN CHAPTER 35 OF THE 2018 IBC) 2018 INTERNATIONAL FUEL GAS CODE 2018 INTERNATIONAL MECHANICAL CODE (IMC) 2018 INTERNATIONAL PLUMBING CODE (IPC) NFPA 70-2014 NEC (NATIONAL ELECTRIC CODE) ICC/ANSI 117.1 2017 EDITION (BARRIER FREE CODE)	
SCOPE OF WORK AREA:	± 1,543 S.F.
TOTAL FLOOR AREA:	± 49,815 S.F.
ALTERATION LEVEL:	LEVEL 1
USE:	EXISTING 'A-3' ASSEMBLY
CONSTRUCTION TYPE:	EXISTING IIB - NON-COMBUSTIBLE UNPROTECTED
SPRINKLER SYSTEM:	EXISTING FULLY SPRINKLERED (AUTOMATIC)
OCUPANCY:	OFFICE & STACKS AREA: 449 PERSONS (1 PER 100 GROSS S.F.)
	READING AREA: 85 OCCUPANTS (1 PER 50 NET S.F.)
	534 OCCUPANTS TOTAL (NO CHANGE)
HEIGHT:	EXISTING 2-STORY BUILDING

DRAWING ENUMERATION

ARCHITECTURAL

RHJ ASSOCIATES, P.C.

CONTACT: MICHAEL HENRETTY, 302.432.2269
10 LEOPARD RD., PAOLI, PA 19301

- CS.1 - LOCATION MAP / BUILDING KEY / CODE INFORMATION
- E&O - EGRESS/OCCUPANCY PLAN
- ASP.1 - ARCHITECTURAL SITE PLAN
- A.1 - REFLECTED CEILING DEMOLITION PLAN / FLOOR PLAN / REFLECTED CEILING PLAN / FINISHES PLAN
- A.2 - ENLARGED PLAN
- A.3 - GENERATOR DETAILS

ENGINEERING

MARTARANO ENGINEERING, INC.

CONTACT: MATTHEW PAGE, 484.706.9779 EXT. 115
1105 BERKSHIRE BLVD., SUITE 140 WYOMISSING, PA 19610

- M.1 - MECHANICAL SCHEDULES / LEGENDS / NOTES / DETAILS
- M.2 - MECHANICAL DEMOLITION PLAN / MECHANICAL NEW WORK PLAN
- M.3 - MECHANICAL NEW WORK GAS PLAN
- FP.1 - FIRE PROTECTION PLAN / NOTES
- E.1 - ELECTRICAL NOTES / LEGENDS
- E.2 - ELECTRICAL DEMOLITION PLAN / NOTES
- E.3 - ELECTRICAL NEW WORK LIGHTING PLAN / NOTES
- E.4 - ELECTRICAL NEW WORK POWER PLAN / NOTES / SCHEDULE
- E.5 - ELECTRICAL NEW WORK MECHANICAL POWER PLAN / NOTES

PROPOSED IMPROVEMENTS FOR:
BCFL - DOYLESTOWN

150 S. PINE STREET
 DOYLESTOWN, PA 18901
 DOYLESTOWN, BUCKS COUNTY

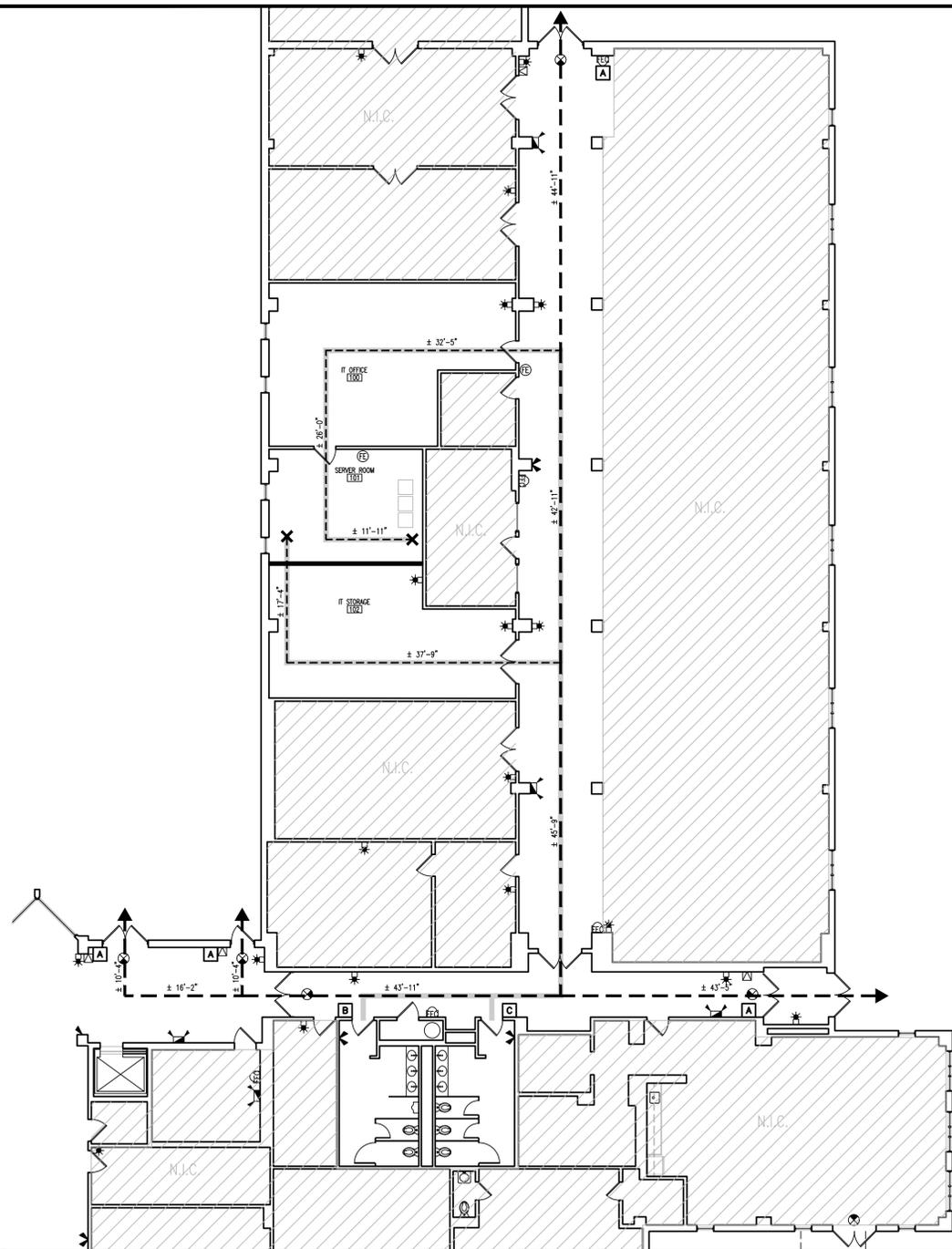
RHJ ASSOCIATES, P.C.
 ARCHITECTS • PLANNERS • DESIGNERS

10 LEOPARD RD.
 PAOLI, PA 19301
 610 337 4655
 www.rhjassoc.com

DATE: 03/06/2026
ISSUED FOR BID

CS.1

Y:\BCFL_150 S. Pine Doylestown, IT Server Room_2025-0597\Drawings\CDs\BCFL_150 S.Pine Doylestown, IT Server Room_2025-0597_CDS.dwg



- EGRESS & OCCUPANCY LEGEND:**
- EXISTING EXIT SIGN. ARROW DENOTES DIRECTION.
 - EXISTING BATTERY PACK W/ (2) EMERGENCY HEADS.
 - EXISTING DUAL REMOTE EMERGENCY HEADS.
 - EXISTING HORN/STROBE.
 - EXISTING WALL MOUNTED FIRE EXTINGUISHER.
 - EXISTING WALL MOUNTED FIRE EXTINGUISHER CABINET.
 - EXISTING FIRE PULL STATION.
 - INDICATES COMMON PATH OF EGRESS TRAVEL (100' MAX ALLOWED).
 - INDICATES EGRESS ROUTE (200' MAX ALLOWED).
 - INDICATES ACCESSIBLE ROUTE.

1 EGRESS/OCCUPANCY PLAN - 1ST FLOOR

SCALE: 3/32" = 1'-0"

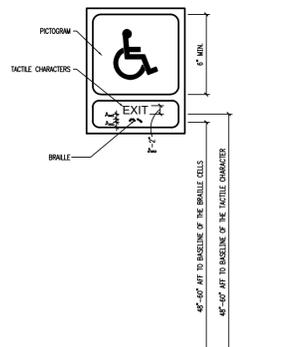


A B C

FOR REFERENCE ONLY - EXISTING TO REMAIN

2 TACTILE SIGNS

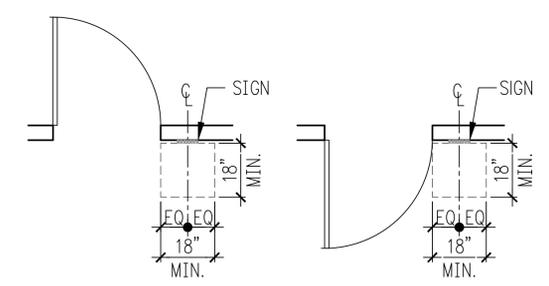
SCALE: N.T.S.



NOTE: SIGN COLOR / LAYOUT TBD.
ALL SIGNS TO COMPLY WITH ICC/ANSI A117.1-2017, CHAPTER 7.

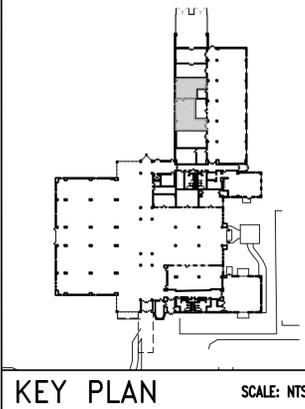
3 TACTILE SIGN DIAGRAM - ELEVATION

SCALE: N.T.S.



4 TACTILE SIGN DIAGRAM - PLAN

SCALE: N.T.S.



KEY PLAN SCALE: NTS

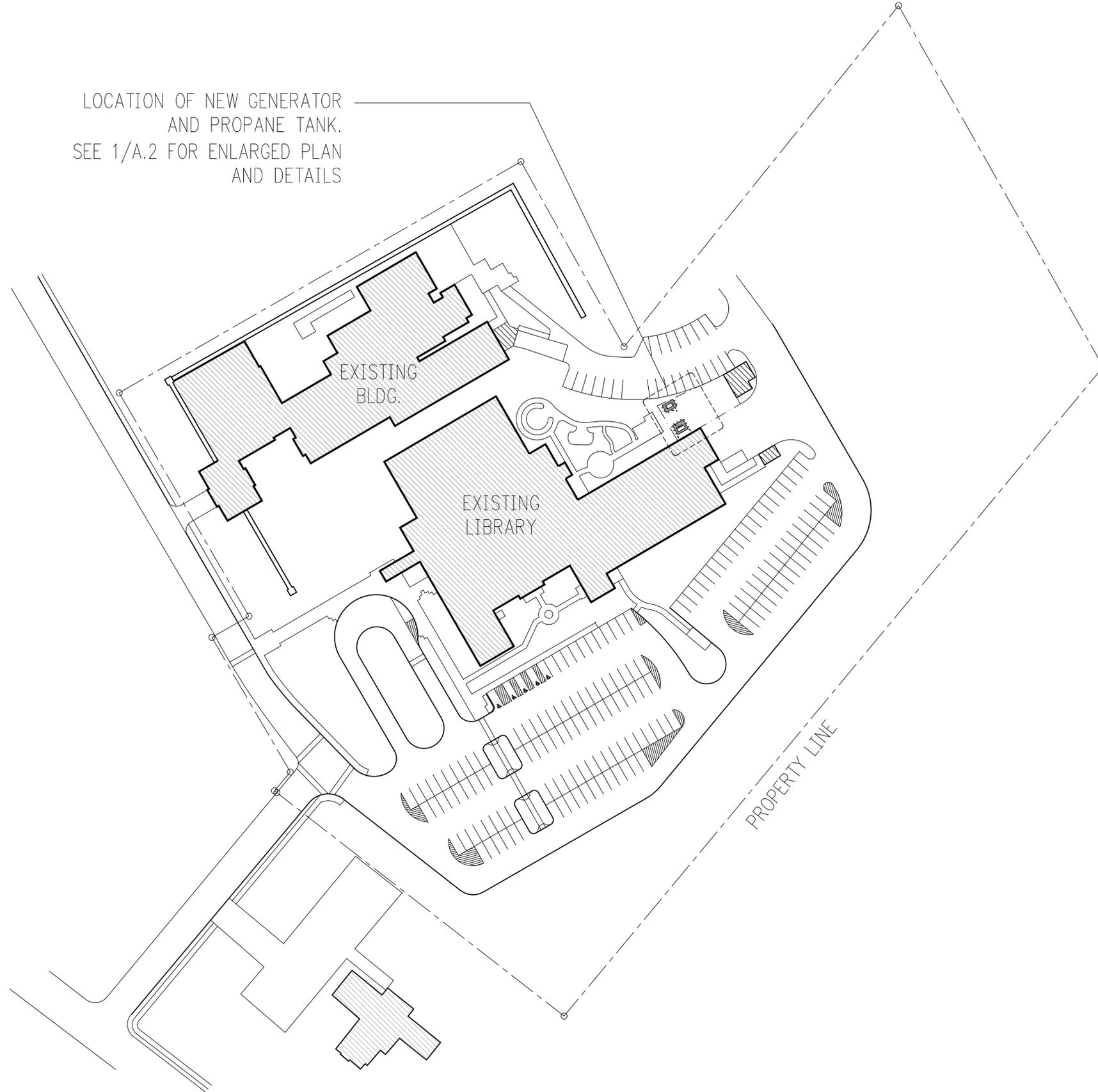
PROPOSED IMPROVEMENTS FOR:
BCFL - DOYLESTOWN
150 S. PINE STREET
DOYLESTOWN, PA 18901
DOYLESTOWN, BUCKS COUNTY

RHJ ASSOCIATES, P.C.
ARCHITECTS • PLANNERS • DESIGNERS
10 LEOPARD RD.
PAOLI, PA 18901
610.337.4555
www.rhjassoc.com

DATE:	03/06/2026
	ISSUED FOR BID

E&O
2025-0597

LOCATION OF NEW GENERATOR
AND PROPANE TANK.
SEE 1/A.2 FOR ENLARGED PLAN
AND DETAILS



Y:\BCFL_150 S. Pine Doylestown.IT Server Room_2025-0597\Drawings\CDs\BCFL_150 S.Pine Doylestown.IT Server Room_2025-0597_CDS.dwg

1 SITE PLAN



SCALE: 3/32" = 1'-0"

PROPOSED IMPROVEMENTS FOR:
BCFL - DOYLESTOWN

150 S. PINE STREET
DOYLESTOWN, PA 18901
DOYLESTOWN, BUCKS COUNTY

RHJ ASSOCIATES, P.C.
ARCHITECTS • PLANNERS • DESIGNERS

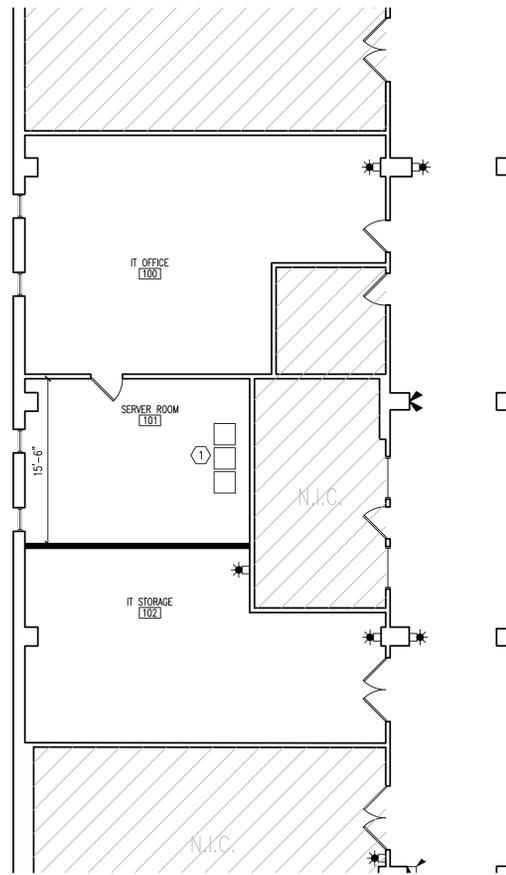
10 LEOPARD RD.
PAOLI, PA 19301
610 337 4555
www.rhjassoc.com

DATE: 03/06/2026
ISSUED FOR BID

ASP.1

2025-0597

Y:\BCFL_150 S. Pine Doylestown, IT Server Room_2025-0597\Drawings\CDs\BCFL_150 S.Pine Doylestown, IT Server Room_2025-0597_CDS.dwg



WALL LEGEND:
— EXISTING WALL TO REMAIN. PATCH, REPAIR AND PAINT AS REQUIRED.
— NEW BUILDING STANDARD INTERIOR PARTITION.
38S20 METAL STUDS @ 16" O.C. MAX. & (1) LAYER 5/8" GWB EACH SIDE TO THE UNDERSIDE OF THE STRUCTURE ABOVE.

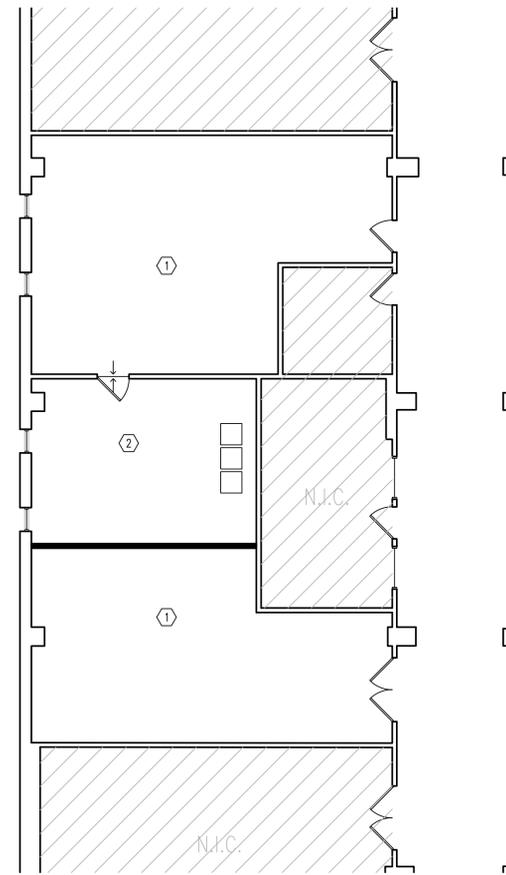
FLOOR PLAN LEGEND:
ROOM I.D.
— EXISTING DUAL REMOTE EMERGENCY HEADS.
— EXISTING HORN/STROBE.

KEYED NOTES:
① G.C. TO INSTALL NEW TENANT PROVIDED RACKING.

CONSTRUCTION NOTES:
1. CONTRACTOR TO FOLLOW ALL APPLICABLE FEDERAL, OSHA, STATE AND LOCAL REGULATIONS.
2. CONTRACTOR TO VERIFY ALL BUILDING STANDARD REQUIREMENTS, FINISHES & SPECIFICATIONS PRIOR TO BID. VERIFY ALL EXISTING FIELD CONDITIONS AND NOTIFY RHJ ASSOCIATES OF ANY DISCREPANCIES AFFECTING CONSTRUCTION.
3. CONTRACTOR TO COORDINATE STUD SPACING WITH RECEPTACLE LOCATIONS AND BLOCKING.
4. PATCH/PREP FLOORS AND WALLS AS REQUIRED TO ACCEPT NEW BUILDING STANDARD LEVEL 4 FINISHES AS REQUIRED BY NEW LAYOUT. FINISHES TO BE INSTALLED PER MANUFACTURER'S SPECIFICATIONS.
5. TAPE & SPACKLE ALL GWB WHERE EXPOSED. USE METAL CORNER BEADS & METAL 'J' BEADS ON EXPOSED EDGES.
6. CONTRACTOR SHALL COORDINATE WITH THE TENANT'S VENDORS AND LANDLORD FOR ALL TENANT SUPPLIED AND INSTALLED ITEMS INCLUDING BUT NOT LIMITED TO TEL-DATA SYSTEMS AND FURNITURE PIECES.
7. CONTRACTOR SHALL WIPE DOWN AND CLEAN ALL FINISHED SURFACES OF DIRT, SMUDGES, BLEMISHES, FINGER PRINTS, ETC. PRIOR TO TURNING THE SPACE OVER TO THE TENANT. CLEAN ALL WINDOWS.
8. CONTRACTOR SHALL OBTAIN A CERTIFICATE OF OCCUPANCY AND PROVIDE COPIES OF ALL PERMITS TO THE BUILDING MANAGER.

3 FLOOR PLAN

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



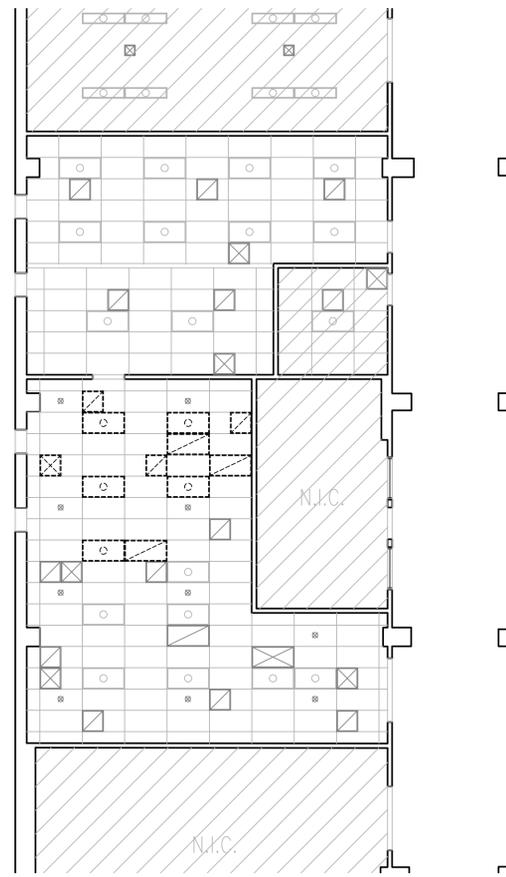
FINISHES PLAN LEGEND:
— POINT OF FLOORING MATERIAL TRANSITION. LOCATE AT CENTER OF WALL OR AT CENTER OF CLOSED DOOR WHERE APPLICABLE.

FINISHES NOTES:
1. ALL FINISHES TO MATCH BUILDING STANDARD.
2. PROVIDE AND INSTALL NEW VINYL BASE AS REQUIRED.
3. PAINT NEW CONSTRUCTION AS REQUIRED TO MATCH EXISTING.

FINISHES PLAN KEYED NOTES:
① EXISTING FINISHES TO REMAIN AT THIS LOCATION. PATCH & REPAIR AS REQUIRED BY NEW LAYOUT.
② PROVIDE AND INSTALL NEW VCT FLOORING AS REQUIRED BY NEW CONSTRUCTION. MATCH EXISTING.

4 FINISHES PLAN

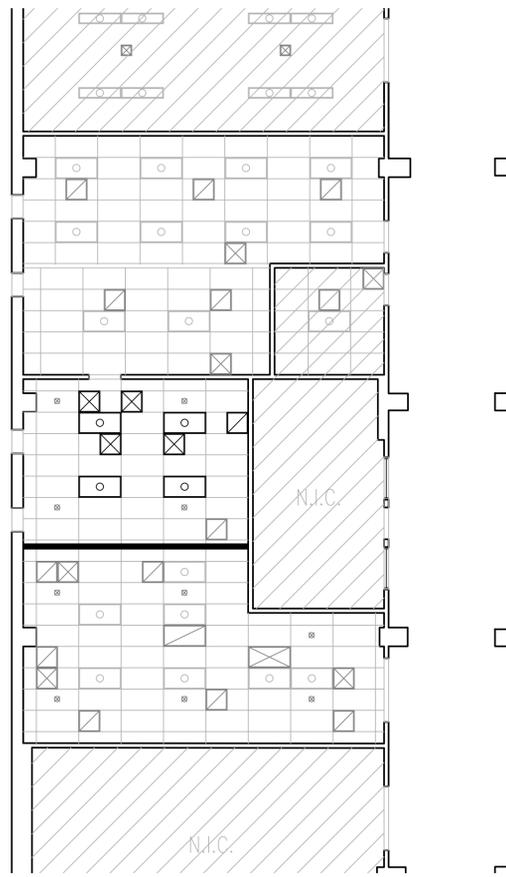
SCALE: 1/8" = 1'-0"



REFLECTED CEILING DEMOLITION LEGEND:
— EXISTING CONSTRUCTION TO REMAIN.
— EXISTING LAY-IN LIGHT FIXTURE TO BE REMOVED.
— EXISTING 2'x4' ACOUSTIC CEILING TILE & GRID.
— EXISTING 2x4 LAY-IN LIGHT FIXTURE, U.N.O.
— EXISTING SPRINKLER HEAD, U.N.O.
— EXISTING 2X2 LAY-IN SUPPLY DIFFUSER TO BE REMOVED.
— EXISTING 2X2 LAY-IN RETURN AIR GRILLE TO BE REMOVED.
— EXISTING 2X4 LAY-IN RETURN AIR GRILLE TO BE REMOVED.
— EXISTING 2X2 LAY-IN SUPPLY DIFFUSER, U.N.O. FOR REFERENCE ONLY.
— EXISTING 2X2 LAY-IN RETURN AIR GRILLE, U.N.O. FOR REFERENCE ONLY.
— EXISTING 2X4 LAY-IN SUPPLY DIFFUSER, U.N.O. FOR REFERENCE ONLY.
— EXISTING 2X4 LAY-IN RETURN AIR GRILLE, U.N.O. FOR REFERENCE ONLY.

1 DEMOLITION CEILING PLAN

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



REFLECTED CEILING PLAN LEGEND:
— EXISTING 2'x4' ACOUSTIC CEILING TILE & GRID.
— NEW 2x4 LAY-IN LIGHT FIXTURE, U.N.O.
— EXISTING 2x4 LAY-IN LIGHT FIXTURE, U.N.O.
— EXISTING SPRINKLER HEAD, U.N.O.
— NEW 2X2 LAY-IN SUPPLY DIFFUSER, U.N.O. FOR REFERENCE ONLY.
— NEW 2X2 LAY-IN RETURN AIR GRILLE, U.N.O. FOR REFERENCE ONLY.
— EXISTING 2X2 LAY-IN SUPPLY DIFFUSER, U.N.O. FOR REFERENCE ONLY.
— EXISTING 2X2 LAY-IN RETURN AIR GRILLE, U.N.O. FOR REFERENCE ONLY.
— EXISTING 2X4 LAY-IN SUPPLY DIFFUSER, U.N.O. FOR REFERENCE ONLY.
— EXISTING 2X4 LAY-IN RETURN AIR GRILLE, U.N.O. FOR REFERENCE ONLY.

REFLECTED CEILING PLAN NOTES:
1. CONTRACTOR TO PROVIDE SUPPLEMENTAL LIGHTING SUFFICIENT FOR SAFE WORKING CONDITIONS THROUGHOUT COURSE OF DEMOLITION/NEW CONSTRUCTION.
2. CLEAN/REPAIR/REPLACE EXISTING GRID TO REMAIN AS REQ'D. BY NEW LAYOUT. REPLACE ANY STAINED, DAMAGED, OR MISSING TILES WITH NEW TO MATCH EXISTING.

2 REFLECTED CEILING PLAN

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

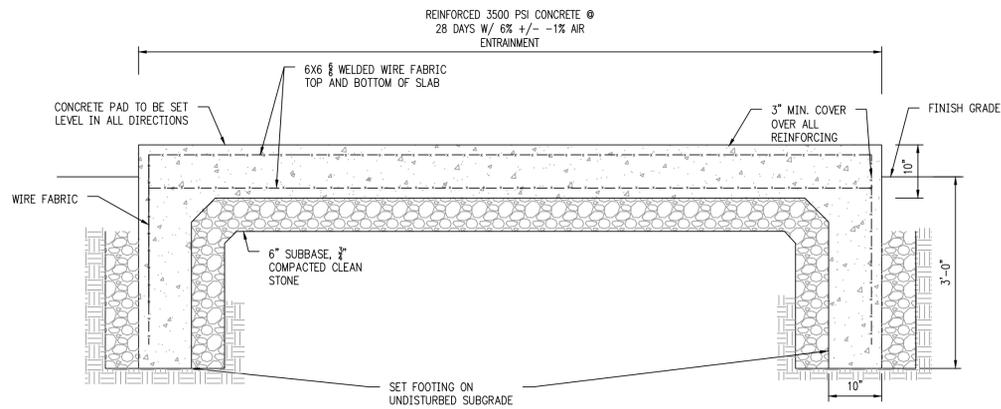
PROPOSED IMPROVEMENTS FOR:
BCFL - DOYLESTOWN
150 S. PINE STREET
DOYLESTOWN, PA 18901
DOYLESTOWN, BUCKS COUNTY

RHJ ASSOCIATES, P.C.
ARCHITECTS • PLANNERS • DESIGNERS
10 LEOPARD RD.
PAOLI, PA 18901
610 337 4855
www.rhjassoc.com

DATE: 03/06/2026
ISSUED FOR BID

A.1

2025-0597

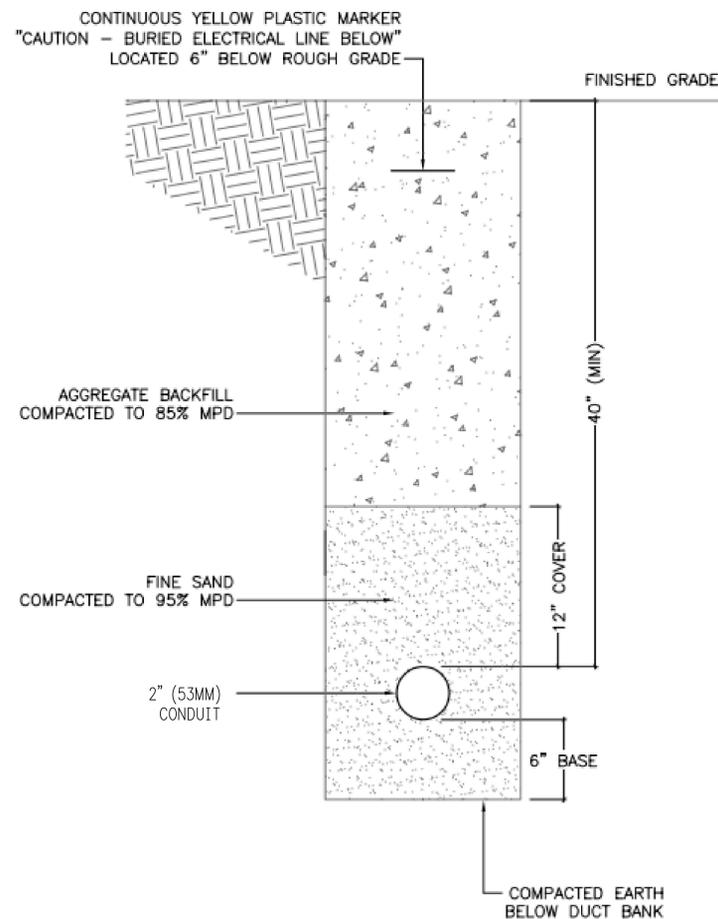


GENERAL NOTES:

1. SLUMP TEST: 3"-4".
2. PROVIDE 1" MINIMUM SEPARATION BETWEEN CONCRETE AND ANY ADJACENT WALL OR OTHER STRUCTURE. INSTALL EXPANSION JOINT OR FLEXIBLE GROUT IN SEPARATION.
3. INSTALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS, INCLUDING FLEXIBLE SUPPLY LINES AND OTHER CONNECTIONS, VIBRATION PADS, MOUNTING HARDWARE AND OTHER APPURTENANCES AS REQUIRED.
4. THIS DETAIL IS FOR ILLUSTRATION PURPOSES. FINAL DESIGN SHALL BE PREPARED IN CONSULTATION WITH EQUIPMENT PROVIDERS AND OWNER PRIOR TO CONSTRUCTION.

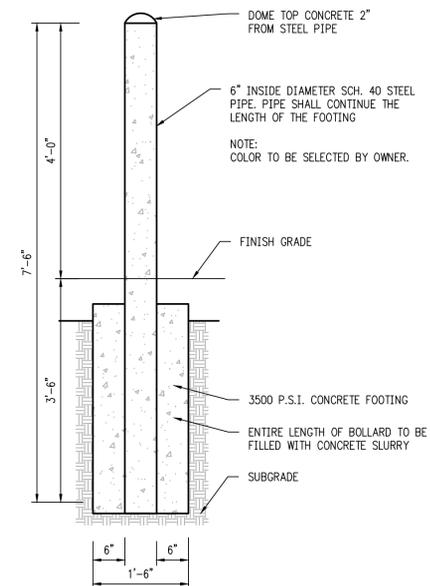
3 GENERATOR PAD SECTION

SCALE: 3/4" = 1'-0"



1 DIRECT-BURY CONDUIT TRENCHING DETAIL

SCALE: N.T.S.



2 CONCRETE BOLLARD DETAIL

SCALE: 3/4" = 1'-0"

Y:\BCFL_150 S. Pine Doylestown, IT Server Room_2025-0597\Drawings\CDs\BCFL_150 S.Pine Doylestown, IT Server Room_2025-0597_CDis.dwg

PROPOSED IMPROVEMENTS FOR:
BCFL - DOYLESTOWN

150 S. PINE STREET
DOYLESTOWN, PA 18901
DOYLESTOWN, BUCKS COUNTY

RHJ ASSOCIATES, P.C.
ARCHITECTS • PLANNERS • DESIGNERS

10 LEOPARD RD.
PAOLI, PA 19301
610 337 4555
www.rhjassoc.com

DATE: 03/06/2026
ISSUED FOR BID

A.3

2025-0597

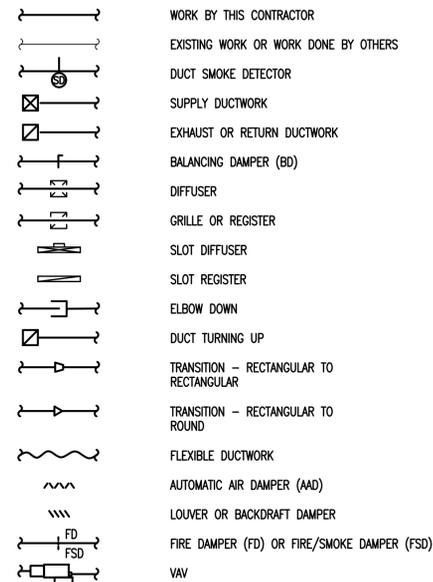
ABBREVIATIONS

ABV	ABOVE
ACC/CU	AIR COOLED CHILLER/AIR COOLED CONDENSING UNIT
AFF	ABOVE FINISHED FLOOR
AFR	ABOVE FINISHED ROOF
AHU	AIR HANDLING UNIT
BD	BALANCING DAMPER
BHP	BRAKE HORSEPOWER
BTU	BRITISH THERMAL UNIT
CC	CUBIC FEET PER MINUTE
CFM	CEILING
CLG	CONDENSING UNIT
CU	DIFFUSER
D	DRY BULB
DB	DUCT COIL
DC	DOWN
DN	ENTERING AIR TEMPERATURE
EAT	ELECTRIC BASEBOARD RADIATION
EBBR	ELECTRICAL CONTRACTOR
EC	ELECTRIC DUCT COIL
EDC	ENERGY EFFICIENCY RATIO
EER	EXHAUST FAN
EF	EFFICIENCY
EFF	EXTERNAL STATIC PRESSURE
ESP	EXISTING
EXG	ELECTRIC WALL HEATER
EWH	ENTERING WATER TEMPERATURE
EWT	FAN
F	FULL LOAD AMPS
FLA	COMBINATION FIRE/SMOKE DAMPER
FSD	FOOT (FEET)
FT	FOOT (FEET) PER MINUTE
FPM	GRILLE
G	GAS FURNACE
GF	HEAD
H	SPLIT SYSTEM HEAT PUMP
HP	HORSEPOWER
HP	INFRARED HEATER
IH	KILOWATT
KW	LINEAR FEET
LF	MAXIMUM
MAX	THOUSAND BRITISH THERMAL UNITS
MBH	MECHANICAL CONTRACTOR
MC	MINIMUM CURRENT AMPACITY
MCA	MINIMUM
MIN	MAXIMUM OVERCURRENT PROTECTION DEVICE
MOCP	OUTDOOR AIR
O.A.	OUTDOOR AIR INTAKE
O.A.I.	OPEN END DUCT
OED	PLUMBING CONTRACTOR
PC	PLACES
PL	POUND PER SQUARE INCH
PSI	POUND PER SQUARE INCH GAUGE
PSIG	REGISTER
R	REFRIGERANT LIQUID PIPING
RL	RATED LOAD AMPS
RLA	REVOLUTIONS PER MINUTE
RPM	REFRIGERANT SUCTION PIPING
RS	ROOFTOP AIR CONDITIONING UNIT
RTU	SUPPLY DIFFUSER
SD	SUPPLY REGISTER
SR	TEMPERATURE
TEMP	THRU-WALL HEAT PUMP
THP	TYPICAL
TYP	UNIT HEATER
UH	VARIABLE AIR VOLUME DAMPER
VAV	VENT THRU ROOF
VTR	WITH
W/	WALL HEATER
WH	

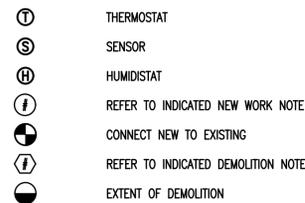
MECHANICAL GENERAL NOTES:

- ALL MECHANICAL WORK SHALL BE DONE IN ACCORDANCE WITH ALL STATE AND LOCAL LAWS AND ORDINANCES AND IN A MANNER SATISFACTORY TO THE OWNER AND AUTHORITY HAVING JURISDICTION. IT SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR TO OBTAIN ALL REQUIRED PERMITS, INSPECTIONS AND PAY ALL APPLICABLE FEES. COMPLY WITH LATEST, APPLICABLE EDITIONS OF THE INTERNATIONAL BUILDING CODE, INTERNATIONAL MECHANICAL CODE, INTERNATIONAL PLUMBING CODE, AND INTERNATIONAL ENERGY CONSERVATION CODE.
- DUCTWORK, PIPING AND EQUIPMENT LAYOUTS ARE SCHEMATIC. DO NOT SCALE THE DRAWINGS. ALL DROPS, RISERS, OR OFFSETS REQUIRED BUT NOT SHOWN SHALL BE PROVIDED AT NO ADDITIONAL COST TO THE OWNER.
- CONTRACTOR SHALL COORDINATE ALL WORK WITH OTHER TRADES. CONTRACTOR GENERATED COORDINATION DRAWINGS ARE REQUIRED AND SHOULD INDICATE STRUCTURE, CEILING FEATURES, LIGHT FIXTURES, PLUMBING AND FIRE SERVICE PIPING AND ALL MECHANICAL EQUIPMENT, PIPING AND DUCTWORK.
- FIELD VERIFY EXISTING CONDITIONS AND COORDINATE ALL WORK. THE SITE SURVEY WAS PERFORMED BY VISUAL EVALUATION OF EXISTING EQUIPMENT, SOME MANUFACTURE SPECIFICATION PLATES WERE WEATHER WORN OR NON EXISTENT.
- MECHANICAL CONTRACTOR SHALL VERIFY THAT ALL EXISTING HVAC EQUIPMENT SERVING THIS SPACE INCLUDING AIR HANDLERS AND CONDENSING UNITS ARE OPERATIONAL AND PERFORM TO MANUFACTURE SPECIFICATIONS, BEFORE INSTALLATION OF ALL NEW SUPPLY AND RETURN DUCTS. IF ANY OF THE MENTIONED EQUIPMENT HAS FAILED, COORDINATE WITH OWNER.
- ALL MATERIALS NOT REUSED OR CLAIMED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED PROMPTLY FROM THE PREMISES BY THE CONTRACTOR.
- CONTRACTOR SHALL LOCATE ALL NEW PIPING AND DUCTWORK AS HIGH AS POSSIBLE (UNLESS NOTED OTHERWISE). COORDINATE ALL WORK WITH EXISTING CONDITIONS, OTHER TRADES, AND CONFORM WITH ALL LOCAL CODES.
- ALL HVAC EQUIPMENT SHALL BE INSTALLED IN STRICT ACCORDANCE WITH MANUFACTURERS WRITTEN INSTALLATION GUIDE.
- ALL DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET METAL (UNLESS SPECIFIED OTHERWISE) AND BE FABRICATED ACCORDING TO THE LATEST EDITION OF THE SMACNA HVAC DUCT CONSTRUCTION STANDARDS FOR METAL AND FLEXIBLE DUCTWORK. ALL DUCTWORK SHALL BE SEALED WITH HARD CAST IN ACCORDANCE WITH SMACNA SEAL CLASS B.
- DO NOT LOCATE VALVES, DAMPERS, ACTUATORS, CONTROL COMPONENTS, ANY EQUIPMENT WITH MOVING PARTS OR ANY EQUIPMENT NEEDING ACCESS OR REGULAR MAINTENANCE ABOVE INACCESSIBLE CEILINGS. PROVIDE AN ACCESS PANEL THAT WILL ALLOW SAFE AND PRACTICAL ACCESS. COORDINATE ACCESS PANEL LOCATION WITH ARCHITECT PRIOR TO INSTALLATION.
- DUCT CONNECTIONS TO ALL AIR HANDLING UNITS, INCLUDING FAN COIL UNITS, ETC. SHALL BE MADE USING FLEXIBLE DUCT CONNECTION. ALSO, PROVIDE FLEXIBLE DUCT CONNECTIONS WHERE DUCTWORK CROSSES BUILDING EXPANSION JOINTS.
- DUCT DIMENSIONS INDICATED ARE CLEAR INSIDE DIMENSIONS. WHERE ACOUSTIC LINING IS SPECIFIED, THE DUCT SIZES SHALL BE INCREASED AS REQUIRED TO COMPENSATE FOR THE LINING.
- LOCATE CEILING AIR DIFFUSERS, REGISTERS AND GRILLES IN THE CENTER OF 2'x2' AND AT THE QUARTER POINT OF 2'x4' ACOUSTICAL TILE CEILING MODULES UNLESS SPECIFICALLY INDICATED OTHERWISE ON THE ARCHITECTURAL REFLECTED CEILING PLANS.
- ALL THERMOSTATS, SENSORS OR OTHER CONTROL DEVICES SHALL BE INSTALLED AT 48" MAXIMUM IN ACCORDANCE WITH ADA REQUIREMENTS. COORDINATE LOCATIONS WITH CABINETRY, ELECTRICAL SWITCHES, ETC. DO NOT MOUNT THEM ABOVE ELECTRICAL DEVICES. PROVIDE AN INSULATED SUB-BASE FOR ANY DEVICES MOUNTED ON A WALL ADJOINING TO AN UNCONDITIONED SPACE.
- TESTING OF HVAC UNITS, AIR DISTRIBUTION DUCTWORK AND AIR OUTLETS SHALL BE PERFORMED TO VERIFY THAT THE FAN, HEAT AND COOL STAGES CYCLE ON AND OFF. PROVIDE AIR BALANCE TESTING IN ACCORDANCE WITH THE SPECIFICATIONS FOR ALL NEW SYSTEMS AND ALL SYSTEMS THAT ARE ALTERED TO DOCUMENT AIR FLOW QUANTITIES AND SUBMIT REPORTS ON NEW AND EXISTING SYSTEMS.
- SEE ARCHITECTURAL FIRE PROTECTION DRAWINGS FOR DETAILS OF FIRE AND SMOKE SEALING REQUIREMENTS AT PENETRATIONS OF ALL UL LISTED FIRE AND SMOKE RATED WALL, FLOOR AND ROOF/CEILING ASSEMBLIES.
- CONTRACTOR SHALL NOT INSTALL DUCTWORK, EQUIPMENT, ETC. ABOVE ANY ELECTRICAL PANEL. CONTRACTOR SHALL COORDINATE DEDICATED ELECTRICAL SPACE WITH ELECTRICAL CONTRACTOR.
- CONTRACTOR SHALL VERIFY WITH LANDLORD/BUILDING OWNER IF THERE ARE ANY EXISTING WARRANTIES IN PLACE FOR THE EXISTING BUILDING CONSTRUCTION (I.E. ROOF, ETC). CONTRACTOR SHALL WORK WITH THE OWNER'S PREFERRED CONTRACTOR TO MAINTAIN AND UPHOLD THE WARRANTY IN ACCORDANCE WITH ALL MANUFACTURER'S REQUIREMENTS.

DUCTWORK AND ACCESSORIES

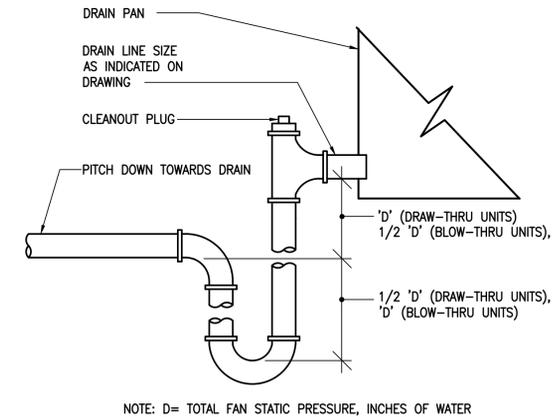


GENERAL

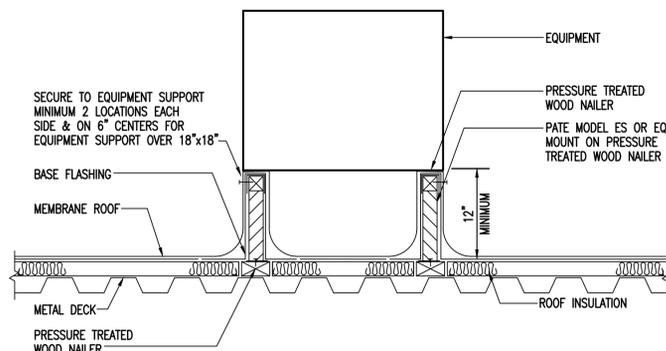


GENERAL DEMOLITION NOTES:

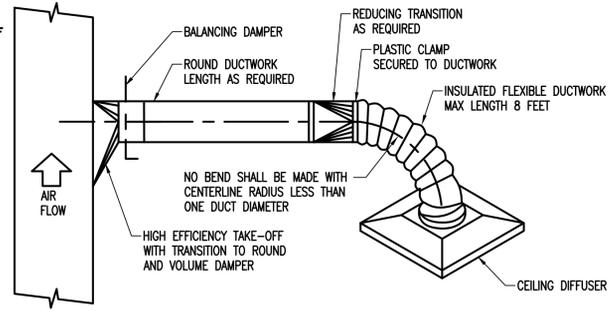
- WHERE IT IS INDICATED THAT DUCTWORK OR PIPING IS TO BE REMOVED IN ITS ENTIRETY, THIS SHALL MEAN THAT THE DUCTWORK, PIPING, INSULATION, HANGERS, CONNECTORS, ACCESSORIES, CONTROLS, ETC. SHALL BE REMOVED FROM THE POINT OF ORIGIN TO THE TERMINATION POINT. PIPING EMBEDDED IN WALLS OR FLOORS NOT BEING DEMOLISHED MAY BE ABANDONED IN PLACE AS LONG AS THE ENDS ARE SATISFACTORILY CLOSED, WILL NOT IMPEDE NEW CONSTRUCTION AND IS REMOVED TO THE ACCESSIBLE LOCATION.
- EQUIPMENT, DUCTWORK, PIPING AND/OR ACCESSORIES INDICATED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY EVEN IF A PORTION OF THE SYSTEM IS OUTSIDE THE DEFINED AREA OF DEMOLITION.
- SYSTEMS WHICH ORIGINATE IN OR PASS THROUGH THE AREA OF DEMOLITION BUT WHICH SERVE AREAS OUTSIDE OF THE AREA OF DEMOLITION SHALL BE RETAINED. SYSTEMS OR PORTIONS THEREOF WHICH CONNECT TO EQUIPMENT IN THE AREA OF DEMOLITION WHICH IS TO REMAIN, SHALL BE RETAINED, UNLESS OTHERWISE NOTED. PORTIONS OF SYSTEMS WHICH CONFLICT WITH CLEARANCES FOR NEW CONSTRUCTION SHALL BE REMOVED AND RELOCATED TO MAINTAIN THE FUNCTIONALITY OF THE SYSTEM.
- DRAWING DEMOLITION NOTES LISTED UNDER THE DEMOLITION AREA IDENTIFICATION SHALL APPLY TO ALL ROOMS/AREAS WITHIN THE AREA OF DEMOLITION. OTHER INDIVIDUAL DRAWING DEMOLITION NOTES ARE IN ADDITION TO THOSE UNDER THE AREA IDENTIFICATION AND APPLY ONLY TO ITEMS IDENTIFIED.
- ANY ABANDONED DUCTWORK, PIPING, EQUIPMENT AND ACCESSORIES IN THE AREA OF DEMOLITION, WHETHER IDENTIFIED OR NOT, SHALL BE REMOVED IN THEIR ENTIRETY.
- DURING DEMOLITION WORK ALL MECHANICAL SYSTEMS OR BUILDING SERVICES SERVING OCCUPIED AREAS SHALL BE MAINTAINED OPERATIONAL. WHERE SYSTEMS OR SERVICE INTERRUPTIONS ARE REQUIRED, COORDINATE WORKING REQUIREMENTS WITH OWNERS REPRESENTATIVE.
- OWNER EQUIPMENT SHALL BE RETURNED TO OWNER, UNLESS OTHERWISE DIRECTED.
- DEMOLISHED MATERIAL SHALL BE REMOVED AND DISPOSED OF IN COMPLIANCE WITH SPECIFICATIONS AND FEDERAL, STATE AND LOCAL CODES.
- NOT ALL SYSTEMS OR PORTIONS THEREOF ARE SHOWN. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO VISIT THE SITE TO DETERMINE THE FULL EXTENT OF DEMOLITION REQUIRED TO COMPLETE BOTH THE DEMOLITION AND NEW WORK.



TYPICAL CONDENSATE DRAIN PAN TRAP DETAIL
NO SCALE



TYPICAL ROOF MOUNTED EQUIPMENT SUPPORT DETAIL
NO SCALE



- NOTES:
- FLEXIBLE DUCT BENDS SHALL NOT HAVE A RADIUS LESS THAN ONE DUCT DIAMETER.
 - MAXIMUM LENGTH OF FLEXIBLE DUCT SHALL BE 8'-0".

FLEXIBLE DUCT CONNECTION DETAIL
NO SCALE

DIFFUSER SCHEDULE

REF NO	MANUFACTURER / MODEL NO	NECK SIZE (")	FACE SIZE (")	BLOW	REMARKS
D-1	KRUEGER / SHR	12	18 X 18	AS INDICATED	PROVIDE IN LAY IN PANEL

NOTE: ARROWS ON DRAWINGS INDICATE BLOW PATTERN; NO ARROWS INDICATES 4-WAY BLOW.

ELECTRIC WALL HEATER SCHEDULE

REF NO	MANUFACTURER/ MODEL NO	AIR FLOW (CFM)	CAPACITY (WATTS)	ELECTRICAL CHARACTERISTICS			REMARKS
				VOLTS	PHASE	HERTZ	
EWH-1	INDEECO / 933IW-4404-S	100	3000	208	1	60	*

* PROVIDE WITH FACTORY INSTALLED DISCONNECT SWITCH.

REGISTER & GRILLE SCHEDULE

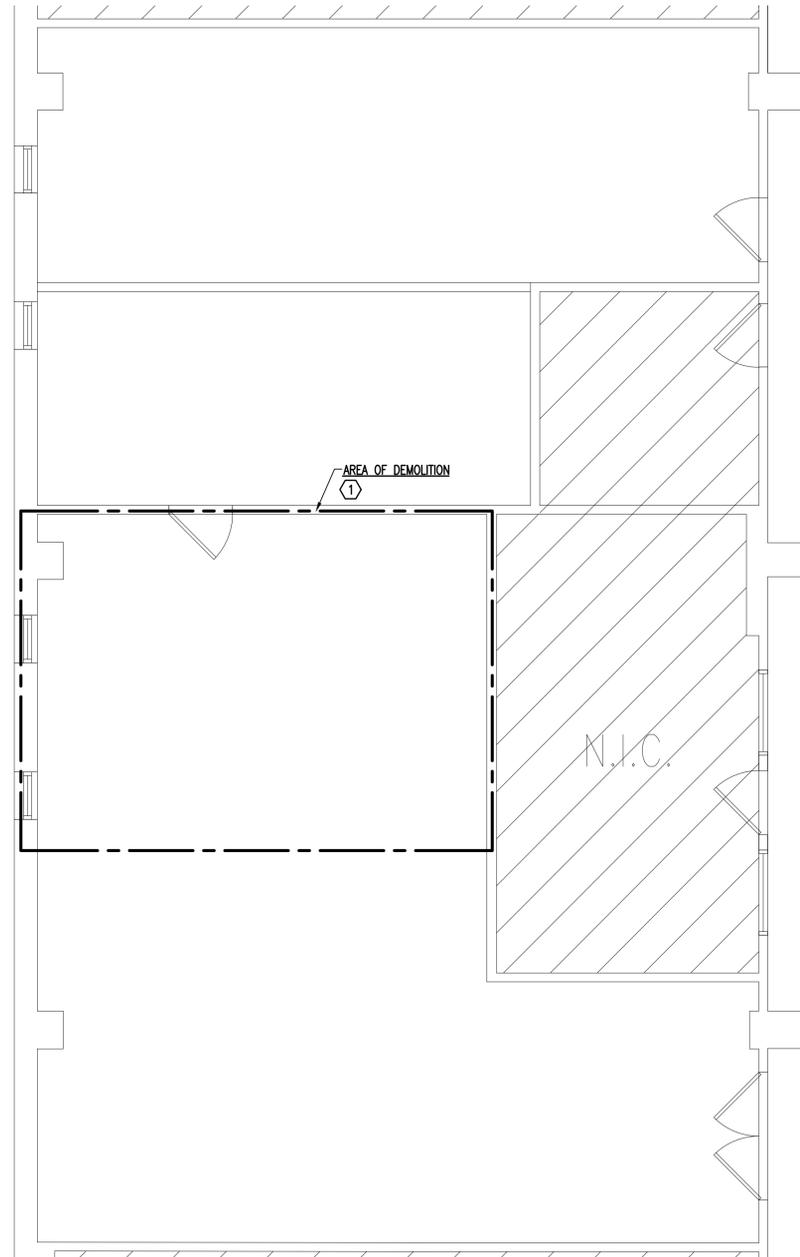
REF NO	MANUFACTURER / MODEL NO	DUCT SIZE (L" X W")	FACE BARS	REMARKS
G-1	KRUEGER / S80	22 X 22	35°	-

SPLIT SYSTEM AIR CONDITIONING SCHEDULE

REF NO	MANUFACTURER	MODEL NO INDOOR UNIT / OUTDOOR UNIT	AIR FLOW (CFM)	MIN OA (CFM)	ESP ("WG)	INDOOR FAN MOTOR			COOLING		OUTDOOR SECTION						REMARKS		
						HP	ELEC CHARACTERISTICS			TOT CAP	SENS CAP	FANS		COMPRESSORS		ELEC CHARACTERISTICS			
							VOLTS	PHASE	HERTZ			NO	FLA	NO	RLA	VOLTS		PHASE	HERTZ
AH-1 / CU-1	LIEBERT - MINI MATE 2	MMD60E / PFH067A	2000	0	0.5	1.5	208	1	60	65.7	63.2	-	-	-	-	208	1	60	NOTE 1

*Cooling loads are "NET" based on 80°F DB/62.8°F WB entering temperature, 95°F at the condenser.
NOTES:
[1] - LOW AMBIENT COOLING

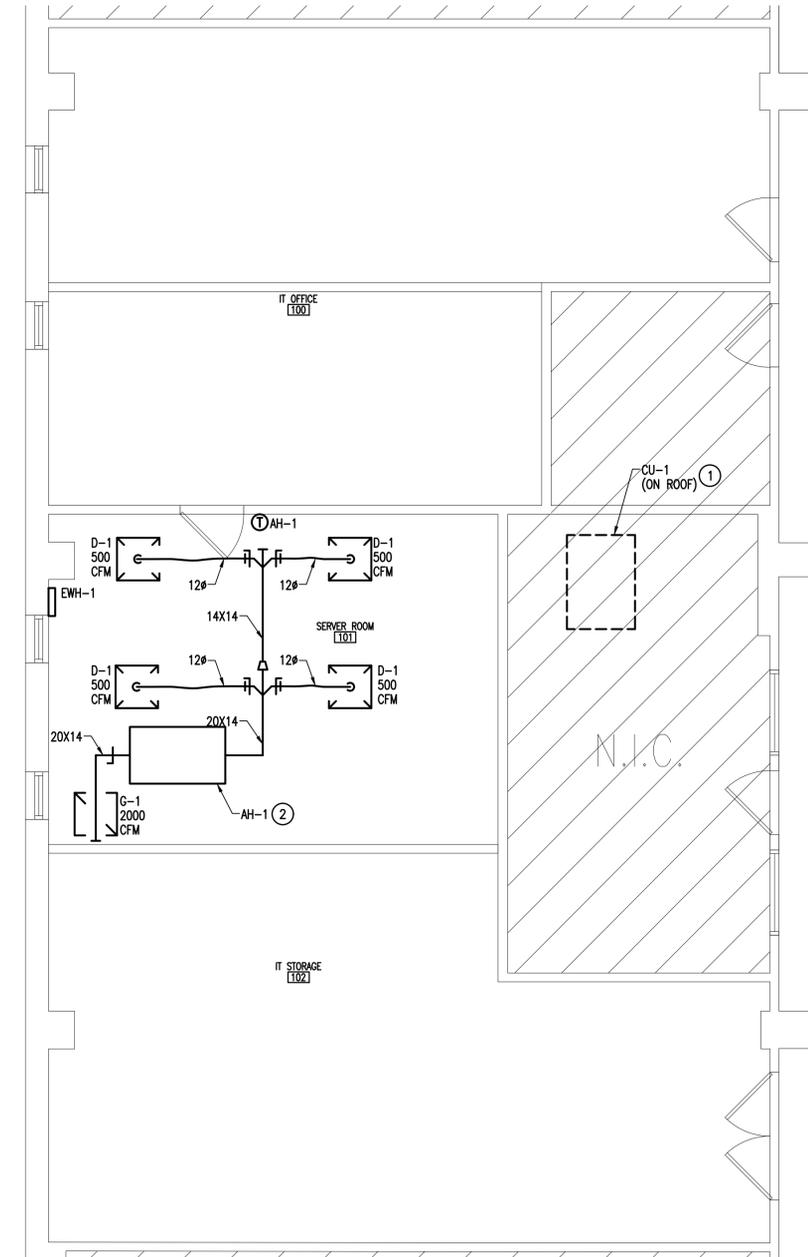
M:\Current\2025\25-339 BCFL Server Room - Doylestown PA\Drawings\25-339 Mechanical.dwg



MECHANICAL - GROUND FLOOR PLAN - DEMOLITION
 SCALE: 1/4" = 1'-0"

DEMOLITION NOTES:

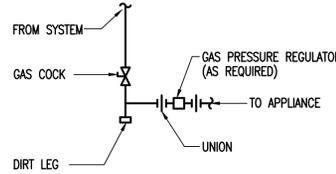
- ① DISCONNECT AND REMOVE EXISTING DIFFUSERS/REGISTERS/GRILLES AND ALL ASSOCIATED DUCTWORK SERVING THE AREA OF DEMOLITION BACK TO MAIN AND CAP.



MECHANICAL - GROUND FLOOR PLAN - NEW WORK
 SCALE: 1/4" = 1'-0"

NEW WORK NOTES:

- ① INSTALL CONDENSING UNIT ON 12" HIGH EQUIPMENT RAILS (PATE MODEL 'ES, OR EQUAL). INSTALL IN ACCORDANCE WITH ALL MANUFACTURERS REQUIREMENTS. MAINTAIN ALL REQUIRED CLEARANCES FOR SERVICE AND OPERATION. SIZE AND ROUTE REFRIGERANT PIPING BETWEEN INDOOR AND OUTDOOR UNITS IN ACCORDANCE WITH ALL MANUFACTURERS REQUIREMENTS. ALL PIPING AND WIRING SHALL BE ROUTED INTO BUILDING THROUGH PIPE CURB ASSEMBLY (PATE MODEL 'PCA', OR EQUAL). MAINTAIN A MINIMUM OF 10' FROM EQUIPMENT TO ROOF EDGE OR PROVIDE FALL PROTECTION IN ACCORDANCE WITH CODE REQUIREMENTS.
- ② INSTALL AIR HANDLER IN HORIZONTAL POSITION ABOVE CEILING. INSTALL IN ACCORDANCE WITH ALL MANUFACTURERS REQUIREMENTS. MAINTAIN ALL REQUIRED CLEARANCES FOR SERVICE AND OPERATION. PROVIDE DRAIN PAN WITH WATER DETECTION SWITCH UNDER ENTIRE UNIT. ROUTE CONDENSATE TO GRADE. PROVIDE CONDENSATE PUMP AS REQUIRED.
- ③ PROVIDE PROPANE GAS PIPING FROM TANK TO GENERATOR SIZED ACCORDING TO NEW WORK PLANS. COORDINATE ROUTING AND TIE-IN LOCATION IN THE FIELD. COORDINATE ROUTING OF PIPING WITH FENCES AND LOCATE PIPING UNDERGROUND IN ACCORDANCE WITH APPLICABLE MANUFACTURERS REQUIREMENTS.

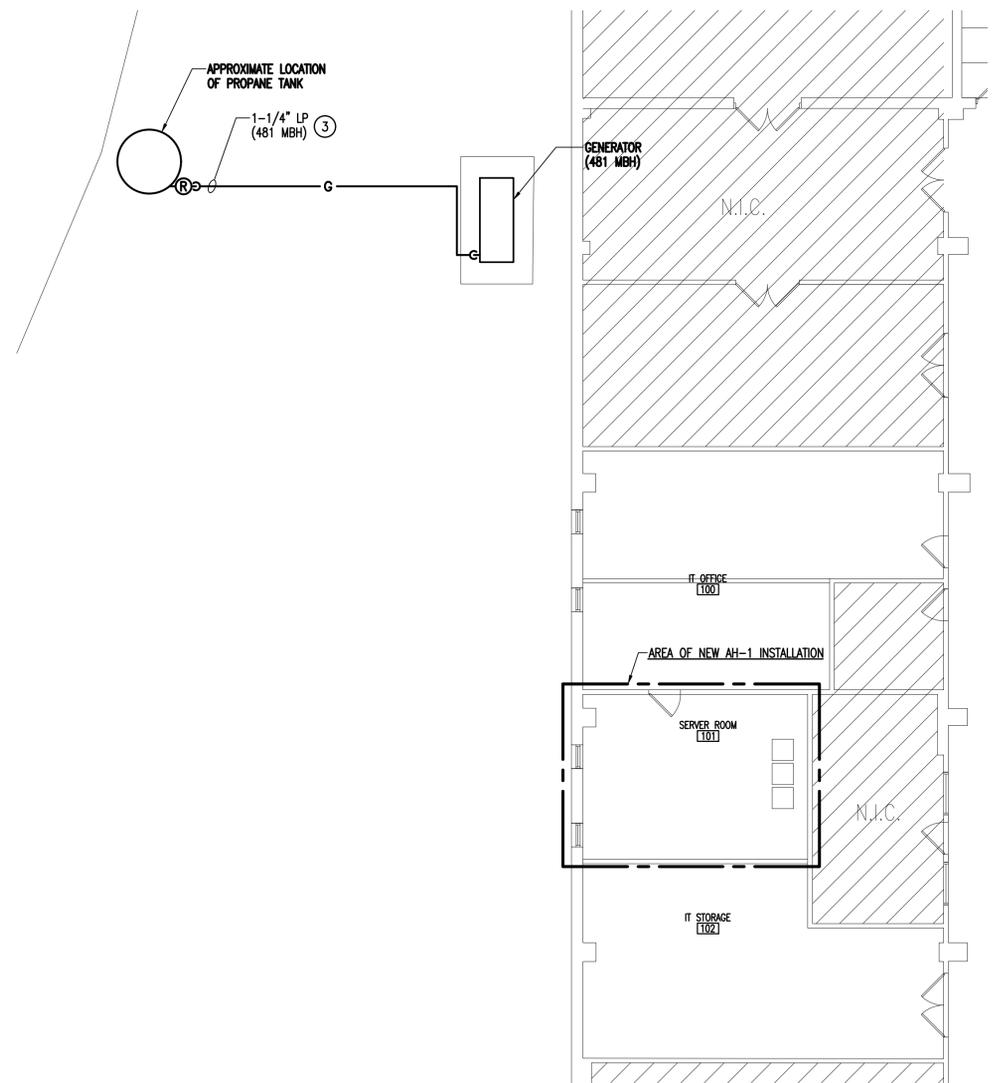


GAS PIPING DIAGRAM
 NO SCALE

PIPING AND ACCESSORIES	
	WORK BY THIS CONTRACTOR
	EXISTING WORK OR WORK DONE BY OTHERS
	SANITARY PIPING (SAN)
	SANITARY VENT PIPING (SV)
	COLD WATER PIPING (CW)
	HOT WATER PIPING (HW)
	HOT WATER RECIRCULATING PIPING (HWR)
	GAS PIPING (G)
	PIPE TURNING UP
	PIPE TURNING DOWN
	WATER HAMMER ARRESTOR (WHA)
	BALL VALVE
	CHECK VALVE
	CIRCUIT SETTER
	TEMPERATURE & PRESSURE VALVE
	THERMOMETER
	GAUGE
	PUMP
	REGULATOR
	GAS METER
	CONNECT TO EXISTING
	NEW WORK NOTE
	REFER TO INDICATED DEMOLITION NOTE
	EXTENT OF DEMOLITION

GAS SYSTEM SIZING	
GAS TYPE	PROPANE (LP)
ESTIMATED DELIVERED PRESSURE:	11"
TABLE USED	2018 INTERNATIONAL FUEL GAS CODE TABLE 402.4 (28)
ALLOWABLE PRESSURE DROP:	0.5" WC
PIPING MATERIAL	SCHEDULE 40 METALLIC PIPE
TOTAL DEVELOPED LENGTH:	50
TOTAL LOAD (MBH)	481

NOTE: CONTRACTOR SHALL BE RESPONSIBLE TO COORDINATE NEW GAS SERVICE WITH LOCAL UTILITY. PRIOR TO INSTALLATION OF PIPING, CONTRACTOR SHALL VERIFY FINAL BUILDING LOAD AND DELIVERED PRESSURE. IF DIFFERENT FROM VALUES LISTED ABOVE, CONTACT THE OWNERS REPRESENTATIVE IMMEDIATELY FOR DIRECTION. PROVIDE GAS PRESSURE REGULATORS AS REQUIRED TO REDUCE PRESSURE TO MANUFACTURERS ALLOWABLE INLET PRESSURES FOR EACH PIECE OF EQUIPMENT.



MECHANICAL - GROUND FLOOR PLAN - NEW WORK - GAS
 SCALE: 1/8" = 1'-0"

NEW WORK NOTES:

- INSTALL CONDENSING UNIT ON 12" HIGH EQUIPMENT RAILS (PATE MODEL 'ES, OR EQUAL). INSTALL IN ACCORDANCE WITH ALL MANUFACTURERS REQUIREMENTS. MAINTAIN ALL REQUIRED CLEARANCES FOR SERVICE AND OPERATION. SIZE AND ROUTE REFRIGERANT PIPING BETWEEN INDOOR AND OUTDOOR UNITS IN ACCORDANCE WITH ALL MANUFACTURERS REQUIREMENTS. ALL PIPING AND WIRING SHALL BE ROUTED INTO BUILDING THROUGH PIPE CURB ASSEMBLY (PATE MODEL 'PCA', OR EQUAL). MAINTAIN A MINIMUM OF 10' FROM EQUIPMENT TO ROOF EDGE OR PROVIDE FALL PROTECTION IN ACCORDANCE WITH CODE REQUIREMENTS.
- INSTALL AIR HANDLER IN HORIZONTAL POSITION ABOVE CEILING. INSTALL IN ACCORDANCE WITH ALL MANUFACTURERS REQUIREMENTS. MAINTAIN ALL REQUIRED CLEARANCES FOR SERVICE AND OPERATION. PROVIDE DRAIN PAN WITH WATER DETECTION SWITCH UNDER ENTIRE UNIT. ROUTE CONDENSATE TO GRADE. PROVIDE CONDENSATE PUMP AS REQUIRED.
- PROVIDE PROPANE GAS PIPING FROM TANK TO GENERATOR SIZED ACCORDING TO NEW WORK PLANS. COORDINATE ROUTING AND TIE-IN LOCATION IN THE FIELD. COORDINATE ROUTING OF PIPING WITH FENCES AND LOCATE PIPING UNDERGROUND IN ACCORDANCE WITH APPLICABLE MANUFACTURERS REQUIREMENTS.

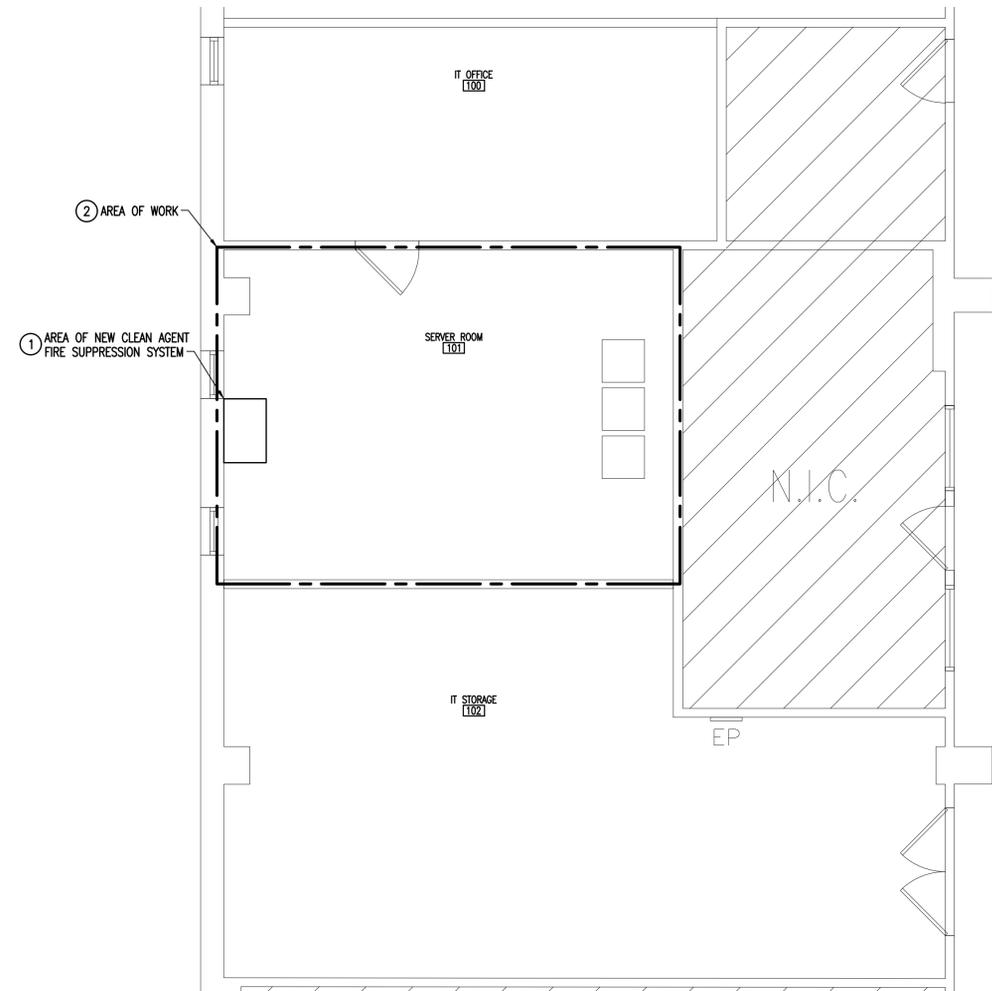
LEGEND	
	WORK BY THIS CONTRACTOR
	EXISTING WORK OR WORK DONE BY OTHERS
	SPRINKLER SIDE WALL NEW
	SPRINKLER UPRIGHT NEW
	SPRINKLER PENDANT NEW
	SPRINKLER CONCEALED NEW
	SPRINKLER EXISTING TO REMAIN
	SPRINKLER DEMO
	NEW WORK NOTE
	CONNECT NEW TO EXISTING
	REFER TO INDICATED DEMOLITION NOTE
	EXTENT OF DEMOLITION

FIRE PROTECTION GENERAL NOTES:

- ALL FIRE PROTECTION SYSTEM WORK SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF NFPA PAMPHLET #13, THE 2018 INTERNATIONAL BUILDING CODES, THE OWNER'S INSURANCE CARRIER AND THE LOCAL FIRE DEPARTMENT.
- THE INTENT OF FIRE PROTECTION DRAWINGS IS FOR APPROVAL PURPOSES ONLY AND TO AID THE FIRE PROTECTION CONTRACTOR IN SYSTEM LAYOUT AND MODIFICATIONS REQUIRED FOR BIDDING PURPOSES. THE DRAWINGS IDENTIFY BASIC ELEMENTS OF THE FIRE PROTECTION SYSTEM, AREAS OF COVERAGE AND DEVICE TYPES AND AREAS WHICH REQUIRE SPECIAL ATTENTION AND/OR DEVICES. THE SUCCESSFUL FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR PROVIDING APPROVED AND COMPLETE PIPING LAYOUT DRAWINGS AND HYDRAULIC CALCULATIONS.
- FIELD VERIFY EXISTING CONDITIONS AND COORDINATE ALL WORK WITH OTHER TRADES. DRAWING INDICATES THE GENERAL SCOPE OF WORK ASSOCIATED WITH THE REMOVAL OF EXISTING MATERIALS, EQUIPMENT, AND ASSOCIATED NEW WORK, BUT IS NOT NECESSARILY INCLUSIVE OF EVERY EXISTING CONDITION. THE FULL EXTENT OF WORK SHALL BE DETERMINED IN THE FIELD BASED ON THE ACTUAL CONDITIONS ENCOUNTERED AND AS REQUIRED FOR THE PROPER EXECUTION OF ALL TRADES NEW WORK.
- COORDINATE ALL WORK WITH THE OWNER TO MATCH CONSTRUCTION SCHEDULE AND MAINTAIN FIRE PROTECTION SYSTEM COVERAGE TO OCCUPIED AREAS DURING CONSTRUCTION. THE FIRE PROTECTION CONTRACTOR SHALL NOTIFY THE OWNER, FIRE DEPARTMENT AND FIRE CODE OFFICIAL WHENEVER ANY PORTION OF THE FIRE PROTECTION SYSTEM IS OUT OF SERVICE DUE TO SPRINKLER SYSTEMS MODIFICATIONS WORK IN AREA OF CONSTRUCTION. THE FIRE PROTECTION CONTRACTOR IS RESPONSIBLE FOR PROVIDING A FIRE WATCH AS REQUIRED BY THE FIRE CODE OFFICIAL. THE FIRE PROTECTION SYSTEM SHALL BE IN OPERATION AT THE END OF EACH WORK SESSION.
- COORDINATE ALL SPRINKLER LOCATIONS WITH LIGHTS, CONDUITS, DUCTS, DIFFUSERS, REGISTER, GRILLES AND IN PARTICULAR ARCHITECTURAL AND STRUCTURAL ELEMENTS TO ASSURE FINAL SYSTEM HARMONIZES WITH THE ARCHITECTURAL FEATURES OF THE BUILDING. ALL SPRINKLERS LOCATIONS SHALL BE COORDINATED WITH ALL SUPPLY AIR DUCTS AND OUTLETS. FINAL SPRINKLER LOCATIONS SHALL BE IN ACCORDANCE WITH NFPA 13 SPACING REQUIREMENTS.
- ALL MATERIALS AND EQUIPMENT NOT REUSED OR CLAIMED BY THE OWNER SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND BE REMOVED PROMPTLY FROM THE PREMISES BY THE CONTRACTOR. ALL SPACES SHALL BE KEPT FREE OF DEBRIS AT ALL TIMES.

NEW WORK NOTES:

- PROVIDE NEW CLEAN AGENT SPRINKLER SYSTEM AND COORDINATE WITH NEW CEILING, LIGHTS, DUCTWORK, AND DIFFUSERS.
- REMOVE ALL EXISTING SPRINKLER HEADS AND PIPING SERVING THE AREA OF WORK. CAP FIRE PROTECTION MAINS OUTSIDE THE AREA OF WORK.



FIRE PROTECTION – GROUND FLOOR PLAN – NEW WORK
 SCALE: 1/4" = 1'-0"

PROPOSED IMPROVEMENTS FOR:
BCFL - DOYLESTOWN
 150 S. PINE STREET
 DOYLESTOWN, PA 18901
 DOYLESTOWN, BUCKS COUNTY

RHJ ASSOCIATES, P.C.
 ARCHITECTS • PLANNERS • DESIGNERS
 10 LEOPARD RD.
 PAOLI, PA 18901
 610 337 4855
 www.rhjassoc.com

DATE: 03/06/2026
 BID SET

FP.1

M:\Current\2025\25-339 BCFL Server Room - Doylestown PA\Drawings\25-339 FP.dwg

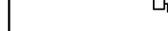
GENERAL NOTES

- ELECTRICAL CONTRACTOR SHALL COORDINATE WORK WITH ALL OTHER TRADES AND PROVIDE ALL MATERIALS, DEVICES, CONNECTIONS, ETC. FOR A COMPLETE AND FUNCTIONAL INSTALLATION. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK WITH SUPPLIERS, SUBCONTRACTORS, EMPLOYEES, ETC. SHOULD CLARIFICATION OF ANY PORTION OF THE WORK BE REQUIRED, CONTACT THE ARCHITECT/ENGINEER PRIOR TO SUBMITTING BID.
- SYMBOLS, ABBREVIATIONS, DETAILS, SCHEDULES, AND DRAWINGS NOTES ARE PROVIDED FOR INFORMATIONAL PURPOSES. NOT ALL SYMBOLS, ABBREVIATIONS, DETAILS, SCHEDULES, AND DRAWING NOTES MAY APPLY. COORDINATE ANY DISCREPANCIES WITH ENGINEER.
- WORK SHALL COMPLY WITH CODE AS REQUIRED BY LOCAL AUTHORITY. THIS WOULD INCLUDE, BUT IS NOT LIMITED TO THE INTERNATIONAL BUILDING CODE (IBC) AND THE NATIONAL ELECTRICAL CODE (NEC). AMENDMENTS, NFPA, ANSI, OSHA, AND ALL OTHER LOCAL OR MUNICIPAL BUREAUS AND DEPARTMENTS WHICH HAVE AUTHORITY OVER THE PROJECT; ANYTHING IN THESE CONTRACT DOCUMENTS NOT WITHSTANDING, THIS SHALL NOT BE CONSTRUED AS WAIVING COMPLIANCE WITH ANY REQUIREMENTS OF THE PLANS AND SPECIFICATIONS WHICH MAY BE IN EXCESS OF ANY REQUIREMENTS OF THESE CODES.
- THE CONTRACTOR SHALL COMPARE THE DRAWINGS AND SPECIFICATIONS, CHECKING THE MEASUREMENTS AND CONDITIONS UNDER WHICH CONSTRUCTION IS TO BE IMPLEMENTED. FOR CLARIFICATION BETWEEN VARIOUS DRAWINGS AND/OR SPECIFICATIONS, THE DISPUTED ISSUE SHALL BE REFERRED TO THE ENGINEER PRIOR TO ANY WORK. THE CONTRACTOR SHALL STATE IN THEIR PROPOSAL ANY EXCEPTIONS NECESSARY TO MAKE THIS WORK A COMPLETE AND READY-TO-USE INSTALLATION. IF NOT SO-STATED IN THE CONTRACTOR'S PROPOSAL, ANY SUCH WORK WILL NOT BE CONSIDERED ADDITIONAL.
- THE CONTRACTOR SHALL COORDINATE THE EXACT LOCATION OF ALL REQUIRED WORK AND EQUIPMENT WITH THAT OF THE OTHER TRADES. WHERE THERE ARE POTENTIAL CONFLICTS, THE CONTRACTOR SHALL OBTAIN AND VERIFY EXACT LOCATIONS, MEASUREMENTS, LEVELS, SPACE REQUIREMENTS, ETC. AT THE SITE AND SHALL ADAPT HIS WORK TO ACTUAL FIELD CONDITIONS. REFER TO ARCHITECTURAL/MECHANICAL DRAWINGS FOR PLANS, ELEVATIONS AND DETAILS INDICATING THE LOCATIONS OF CEILING ELEMENTS (E.G., LIGHTS, SPRINKLERS, DIFFUSERS, ETC.) AND WALL ELEMENTS. CEILING MOUNTED ITEMS SHALL BE INSTALLED IN ACCORDANCE WITH THE ARCHITECTURAL REFLECTED CEILING PLANS. IF LOCATION FOR AN ITEM IS NOT SHOWN ON THE ARCHITECTURAL DRAWINGS, VERIFY THE EXACT LOCATION OF THE ITEM WITH THE ARCHITECT PRIOR TO INSTALLATION. THESE REQUIREMENTS APPLY TO ALL CEILING TYPES IN ALL AREAS. CONTRACTOR GENERATED COORDINATION DRAWINGS ARE REQUIRED.
- THE CONTRACTOR SHALL CAREFULLY EXAMINE THE CONTRACT DOCUMENTS, VISIT THE SITE, EXAMINE THE PREMISES, AND MAKE A THOROUGH SURVEY OF THE CONDITIONS UNDER WHICH CONSTRUCTION WILL BE IMPLEMENTED. THE SUBMISSION OF A PROPOSAL WILL BE CONSTRUED AS EVIDENCE THAT SUCH AN EXAMINATION HAS BEEN MADE. FAILURE TO DO SO SHALL NOT RELIEVE THE CONTRACTOR OF THE OBLIGATIONS OF THE CONTRACT. ANY LATER CLAIMS FOR LABOR, EQUIPMENT, OR MATERIALS REQUIRED FOR DIFFICULTIES ENCOUNTERED WHICH COULD HAVE BEEN FORESEEN HAD SUCH AN EXAMINATION BEEN MADE, WILL NOT BE RECOGNIZED.
- THE CONTRACTOR SHALL SECURE, OBTAIN AND PAY FOR ALL PERMITS, INSPECTIONS, TAXES, LICENCE, AND FEES TO ALL GOVERNMENT AGENCIES REQUIRED FOR THE EXECUTION AND COMPLETION OF THE ELECTRICAL WORK. SCHEDULING OF ALL REQUIRED INSPECTIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. CONTRACTOR SHALL PREPARE AND SUBMIT ALL SHOP DRAWINGS AS REQUIRED TO THE GOVERNMENTAL AGENCIES AND UTILITY COMPANIES FOR THEIR APPROVAL.
- THE CONTRACTOR SHALL TAKE ALL STEPS NECESSARY TO ENSURE THE SAFETY OF THE CLIENT'S EMPLOYEES, BUILDING EMPLOYEES AND GUESTS AS WELL AS THEIR OWN FORCES, BY ADEQUATELY PROTECTING ANY EXPOSED LIVE CABLE, EQUIPMENT, OR DEVICES THROUGHOUT THE COURSE OF THIS WORK.
- ALL CONTRACTORS/BIDDERS SHALL HAVE RECEIVED A COMPLETE SET OF CONSTRUCTION DOCUMENTS FOR REVIEW AND REFERENCE TO WORK INDICATED. CONDUIT LOCATE SERVICES SHALL BE REQUESTED AND COMPLETED BEFORE DISTURBANCE OF ANY EXISTING GRADE OR ON-GRADE CONSTRUCTION, SLAB DEMOLITION, OR OTHER ACTIVITIES THAT MAY IMPACT BURIED UTILITIES OR COMMUNICATION CONDUITS. THE CONTRACTOR SHALL CONFIRM THAT CONDUIT LOCATE SERVICES HAVE BEEN COMPLETED AND THAT NO POTENTIAL CONFLICTS EXIST BEFORE EXISTING GRADE IS EXCAVATED OR EXISTING FLOORING DEMOLISHED, REGARDLESS OF THE LOCATION ON THE PROPERTY. THIS SHALL BE REVIEWED WITH THE OWNER'S PROJECT REPRESENTATIVE.
- THE CONTRACTOR SHALL PROVIDE THE COMPLETE ELECTRICAL INSTALLATION OF WORK AS INDICATED IN THE CONSTRUCTION DOCUMENTS. PRIOR TO COMMENCEMENT, THE CONTRACTOR SHALL SUBMIT FOR REVIEW AND APPROVAL, ANY SEQUENCE OF WORK, MOP'S (METHOD OF PROCEDURE) AND/OR COORDINATION SHOP DRAWINGS FOR THE INTENDED WORK. THE CONTRACTOR SHALL NOTIFY THE ARCHITECT/ENGINEER OF ANY MATERIALS OR APPARATUS BELIEVED TO BE INADEQUATE, UNSUITABLE, VIOLATION OF LAWS, ORDINANCES, RULES OR REGULATIONS OF AUTHORITIES HAVING JURISDICTION.
- THE CONTRACTOR SHALL PROVIDE ALL "AS-BUILT" DRAWINGS SCALED 1/4" MINIMUM AND SUBMIT FOR APPROVAL TO THE ARCHITECT/ENGINEER.
- THE CONTRACTOR SHALL PROVIDE TEMPORARY POWER AND LIGHTING FOR THIS WORK DURING CONSTRUCTION. TEMPORARY LIGHTING SHALL AT LEAST BE THE EQUAL OF (1)100-WATT FIXTURE EVERY 100 SQUARE FEET, WITH A MINIMUM ONE FIXTURE PER ROOM. TEMPORARY LIGHTING SHALL BE LEFT IN PLACE UNTIL PERMANENT LIGHTING IS COMPLETELY OPERATIONAL. COORDINATE TEMPORARY POWER REQUIREMENTS WITH THE OTHER TRADES AND PROVIDE ADEQUATE PROVISIONS. THE CONTRACTOR SHALL PERFORM ALL COORDINATION WITH THE OWNER AND/OR LANDLORD AND UTILITY COMPANY.
- ALL MATERIALS AND EQUIPMENT PROVIDED IN THIS WORK SHALL BE NEW AND SHALL HAVE THE APPROPRIATE UL LISTING AND/OR FM APPROVAL.

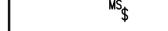
RECEPTACLES

	SINGLE RECEPTACLE - 2 POLE, 3 WIRE GROUNDING, 20 AMP, 125 VOLT, NEMA 5-20R MOUNT @ 1'-6" AFF CENTERLINE UNLESS OTHERWISE NOTED
	DUPLEX RECEPTACLE - 2 POLE, 3 WIRE GROUNDING, 20 AMP, 125 VOLT, NEMA 5-20R MOUNT @ 1'-6" AFF CENTERLINE UNLESS OTHERWISE NOTED
	QUAD RECEPTACLE (2 DUPLEX RECEPTACLES IN SAME BOX) MOUNT @ 1'-6" AFF CENTERLINE UNLESS OTHERWISE NOTED
	UL LISTED WEATHERPROOF ENCLOSURE WITH GROUND FAULT CIRCUIT INTERRUPTING WEATHER RESISTANT TYPE DUPLEX RECEPTACLE MOUNT 2'-0" AFF/AFG CENTERLINE, UNLESS OTHERWISE NOTED

POWER

	1 CIRCUIT HOME RUN TO PANEL 2 #12 & 1 #12G, 3/4" CND, UNLESS OTHERWISE NOTED
	BRANCH CIRCUIT RUN CONCEALED - 2 #12 & 1 #12G, 3/4" CND, UNLESS OTHERWISE NOTED PROVIDE ADDITIONAL SWITCHED CONDUCTORS AS REQUIRED
	JUNCTION BOX
	PANELBOARD - SURFACE MOUNTED MOUNT 6'-0" TO TOP OF HIGHEST BREAKER RATINGS AS INDICATED ON DRAWINGS
	DISCONNECT SWITCH. NUMBER OF POLES, AMPERE RATING, VOLTAGE, NEMA TYPE ENCLOSURE AS INDICATED. MOUNT 4'-0" AFF TO CENTERLINE OF HANDLE.
	ENCLOSED MOLDED CASE CIRCUIT BREAKER. NUMBER OF POLES, AMPERE RATING AND NEMA TYPE ENCLOSURE AS INDICATED. MOUNT 4'-0" AFF TO CENTERLINE OF HANDLE.
	ELECTRICAL TRANSFORMER TYPE/SIZE AS INDICATED ON DRAWINGS * - DENOTES EQUIPMENT DESIGNATION, REFER TO SINGLE LINE

LIGHTING

	LIGHTING FIXTURE, LETTER SUBSCRIPT INDICATES SCHEDULED FIXTURE TYPE. LOWERCASE LETTER INDICATES SWITCH CIRCUIT.
	EMERGENCY LIGHTING FIXTURE, LETTER SUBSCRIPT INDICATES SCHEDULED FIXTURE TYPE.
	SINGLE POLE TOGGLE TYPE A/C SWITCH 20 AMP, 120/277 VOLT MOUNT @ 3'-10" AFF, UNLESS OTHERWISE NOTED
	OCCUPANCY SENSOR WALL SWITCH. WATT STOPPER DW-100 OR APPROVED EQUAL MOUNT @ 3'-10" AFF, UNLESS OTHERWISE NOTED
	LOW VOLTAGE WALL STATION NXSWR-ORLO SERIES OR APPROVED EQUAL. * - DENOTES SYSTEM/AREA OF CONTROLLER AND CONNECTED DEVICES
	OCCUPANCY SENSOR NX-ORLO SERIES OR APPROVED EQUAL

SINGLE LINE

	ELECTRICAL TRANSFORMER TYPE/SIZE AS INDICATED ON DRAWINGS
	CIRCUIT BREAKER TYPE/SIZE AS INDICATED ON DRAWINGS
	ELECTRODE GROUNDING CONDUCTOR/SYSTEM

GENERAL

	REFER TO INDICATED DEMOLITION NOTE
	REFER TO INDICATED NEW WORK LIGHTING NOTE
	REFER TO INDICATED NEW WORK POWER NOTE
	REFER TO INDICATED NEW WORK MECHANICAL POWER NOTE

ABBREVIATIONS

Ø	AT
&	AND
#, NO.	NUMBER
A, AMP	AMPERE
AC	ALTERNATING CURRENT
AFF	ABOVE FINISHED FLOOR
AFG	ABOVE FINISHED GRADE
AL	ALUMINUM
APPROX	APPROXIMATELY
CB	CIRCUIT BREAKER
CKT	CIRCUIT
CLG	CEILING
CND	CONDUIT
CNTR	MOUNT 8" ABOVE COUNTERTOP
CT	CURRENT TRANSFORMER
DISC	DISCONNECT
DWG	DRAWING
EC	ELECTRICAL CONTRACTOR
ELEC	ELECTRIC, ELECTRICAL
FACP	FIRE ALARM CONTROL PANEL
FL	FLOOR
FLA	FULL LOAD AMPS
G	GROUND
GC	GENERAL CONTRACTOR
GF	GROUND FAULT
J	JUNCTION BOX
KAIC	THOUSAND AMPS INTERRUPTING CURRENT
KCM	1000 CIRCULAR MILLS
KVA	KILOVOLT-AMPERE
KW	KILOWATT
LTG	LIGHTING
MAX	MAXIMUM
MCB	MAIN CIRCUIT BREAKER
MIN	MINIMUM
MLO	MAIN LUGS ONLY
MTD	MOUNTED
NEC	NATIONAL ELECTRICAL CODE
NEMA	NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION
P	POLE
Ø, PH	PHASE
PNL	PANEL
PVC	POLY VINYL CHLORIDE
RECP	RECEPTACLE
RLA	RATED LOAD AMPS
TYP	TYPICAL
V	VOLTAGE, VOLTS
W	WATT
W/	WITH
W/O	WITHOUT
WP	WEATHERPROOF
X	BY (BETWEEN DIMENSIONS)

PROPOSED IMPROVEMENTS FOR:

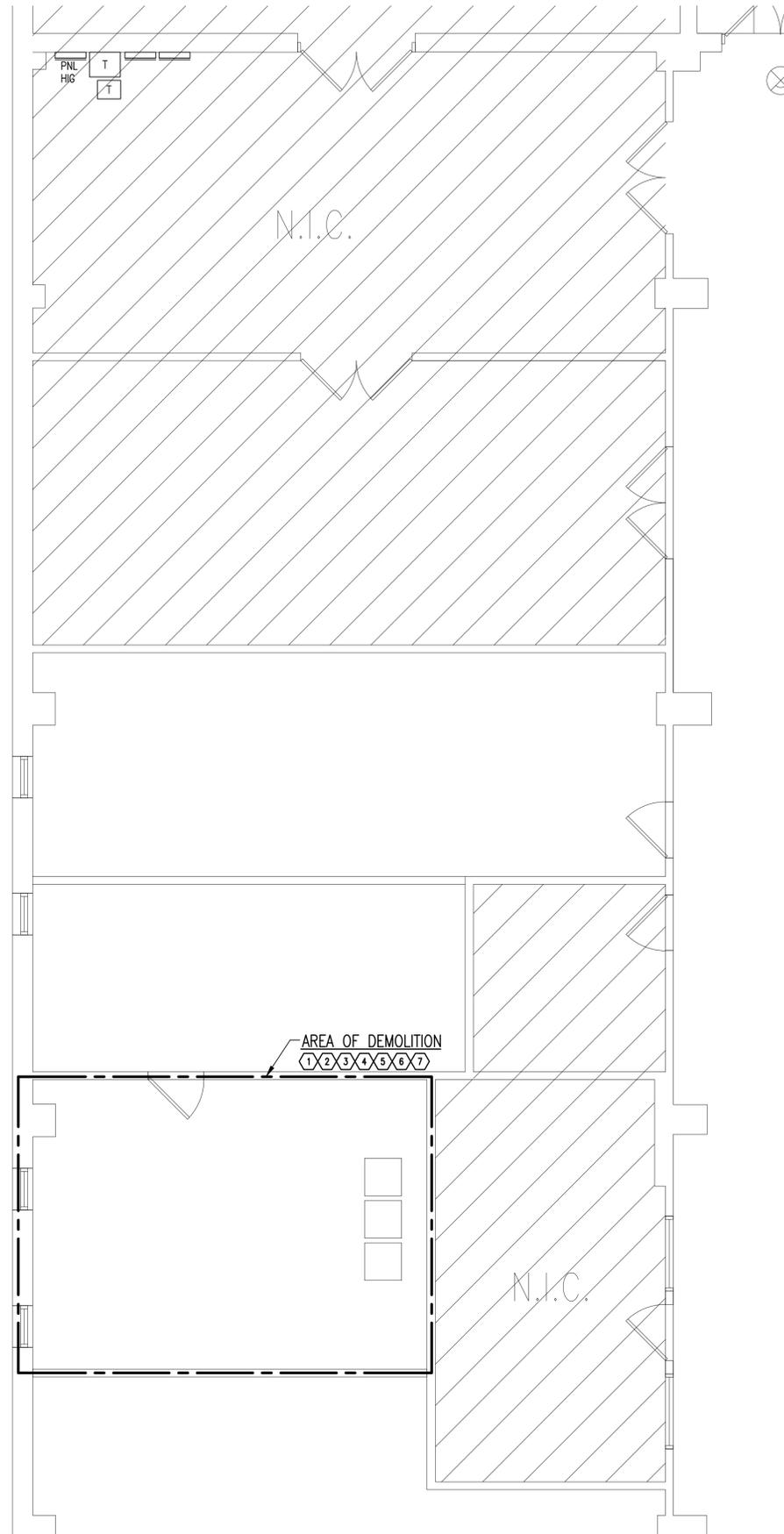
BCFL - DOYLESTOWN

150 S. PINE STREET
DOYLESTOWN, PA 18901
DOYLESTOWN, BUCKS COUNTY

RHJ ASSOCIATES, P.C.
ARCHITECTS • PLANNERS • DESIGNERS

10 LEOPARD RD.
PAOLI, PA 19301
810 337 4655
www.rhjassoc.com

DATE: 03/06/2026
BID SET



GENERAL DEMOLITION NOTES:

1. WHERE IT IS INDICATED THAT A CIRCUIT, CONDUIT OR WIRING IS TO BE REMOVED IN ITS ENTIRETY, THIS SHALL MEAN THAT THE WIRE, CONDUIT, HANGERS, CONNECTORS, COUPLINGS, CONTROLS, DISCONNECT SWITCHES, ETC. SHALL BE REMOVED FROM THE DEVICE TO THE SOURCE, EXCEPT THAT CONDUIT EMBEDDED IN WALLS OR FLOORS NOT BEING DEMOLISHED MAY BE ABANDONED IN PLACE AS LONG AS THE WIRE IS REMOVED AND THE CONDUIT ENDS ARE SATISFACTORILY CLOSED.
2. CIRCUITS TO EQUIPMENT OR DEVICES INDICATED TO BE REMOVED SHALL BE REMOVED IN THEIR ENTIRETY EVEN IF THE CIRCUIT OR SOURCE IS OUTSIDE THE DEFINED AREA OF DEMOLITION.
3. CIRCUITS WHICH ORIGINATE IN OR PASS THROUGH THE AREA OF DEMOLITION BUT WHICH SUPPLY LOADS OUTSIDE OF THE AREA OF DEMOLITION OR WHICH FEED EQUIPMENT IN THE AREA OF DEMOLITION WHICH IS TO REMAIN, SHALL BE RETAINED. PORTIONS OF SUCH CIRCUITS WHICH CONFLICT WITH CLEARANCES FOR NEW CONSTRUCTION SHALL BE REMOVED AND WIRE AND CONDUIT (MATCH EXISTING TYPE AND SIZE) SHALL BE PROVIDED TO EXTEND THE CIRCUIT TO ITS ORIGINAL SOURCE AND TO MAINTAIN THE FUNCTIONALITY OF THE CIRCUIT.
4. CIRCUITS WHICH SUPPLY DEVICES BOTH INSIDE AND OUTSIDE OF THE AREA OF DEMOLITION SHALL BE REMOVED ONLY WITHIN THE AREA OF DEMOLITION. REMOVE THE CIRCUITS TO THE NEAREST JUNCTION BOX OR DEVICE OUTSIDE THE AREA OF DEMOLITION. PORTIONS OF THE CIRCUITS WHICH SUPPLY DEVICES OUTSIDE THE AREA OF DEMOLITION OR DEVICES TO REMAIN INSIDE THE AREA OF DEMOLITION SHALL REMAIN AND WIRE AND CONDUIT (MATCH EXISTING TYPE AND SIZE) SHALL BE PROVIDED TO EXTEND THE CIRCUIT TO ITS ORIGINAL SOURCE AND TO MAINTAIN THE FUNCTIONALITY OF THE CIRCUIT, UNLESS OTHERWISE NOTED.
5. EXISTING PANELBOARDS AND THEIR FEEDER CIRCUITS SHALL BE RETAINED, UNLESS OTHERWISE NOTED.
6. DRAWING DEMOLITION NOTES LISTED UNDER THE DEMOLITION AREA IDENTIFICATION SHALL APPLY TO ALL ROOMS/AREAS WITHIN THE AREA OF DEMOLITION. OTHER INDIVIDUAL DRAWING DEMOLITION NOTES ARE IN ADDITION TO THOSE UNDER THE AREA IDENTIFICATION AND APPLY ONLY TO INDIVIDUAL ROOMS OR EQUIPMENT.
7. ABANDONED WIRE, CONDUIT, DEVICES AND CIRCUITS IN THE AREA OF DEMOLITION OR INDIVIDUALLY IDENTIFIED SHALL BE REMOVED IN THEIR ENTIRETY.
8. OWNER EQUIPMENT SHALL BE RETURNED TO OWNER, UNLESS OTHERWISE DIRECTED.
9. CONTRACTOR SHALL FIELD VERIFY QUANTITY AND LOCATION OF ALL WIRING DEVICES PRIOR TO BID. ANY ADDITIONAL DEVICES LOCATED SHALL BE TREATED THE SAME AS OTHER DEVICES IN THE SAME AREA.
10. NON-POWER WIRING IN GOOD CONDITION MAY BE PULLED BACK FROM DEVICES BEING REMOVED AND WIRING MAY BE REUSED FOR NEW DEVICES WHERE WIRING LENGTH IS NO LONGER THAN THE ORIGINAL LENGTH. WIRING SHALL NOT BE SPLICED. WIRING WHICH CANNOT BE REUSED SHALL BE REMOVED IN ITS ENTIRETY.
11. DEVICE BOXES WITH USABLE CONDUIT TO ACCESSIBLE SPACES LOCATED IN THE SAME LOCATION AS NEW DEVICES MAY BE REUSED WITH NEW WIRING AND DEVICES. DEVICE BOXES NOT BEING USED AND LOCATED IN WALLS NOT BEING REMOVED MAY REMAIN BUT MUST BE CLOSED WITH A BLANK COVERPLATE.

DRAWING DEMOLITION NOTES:

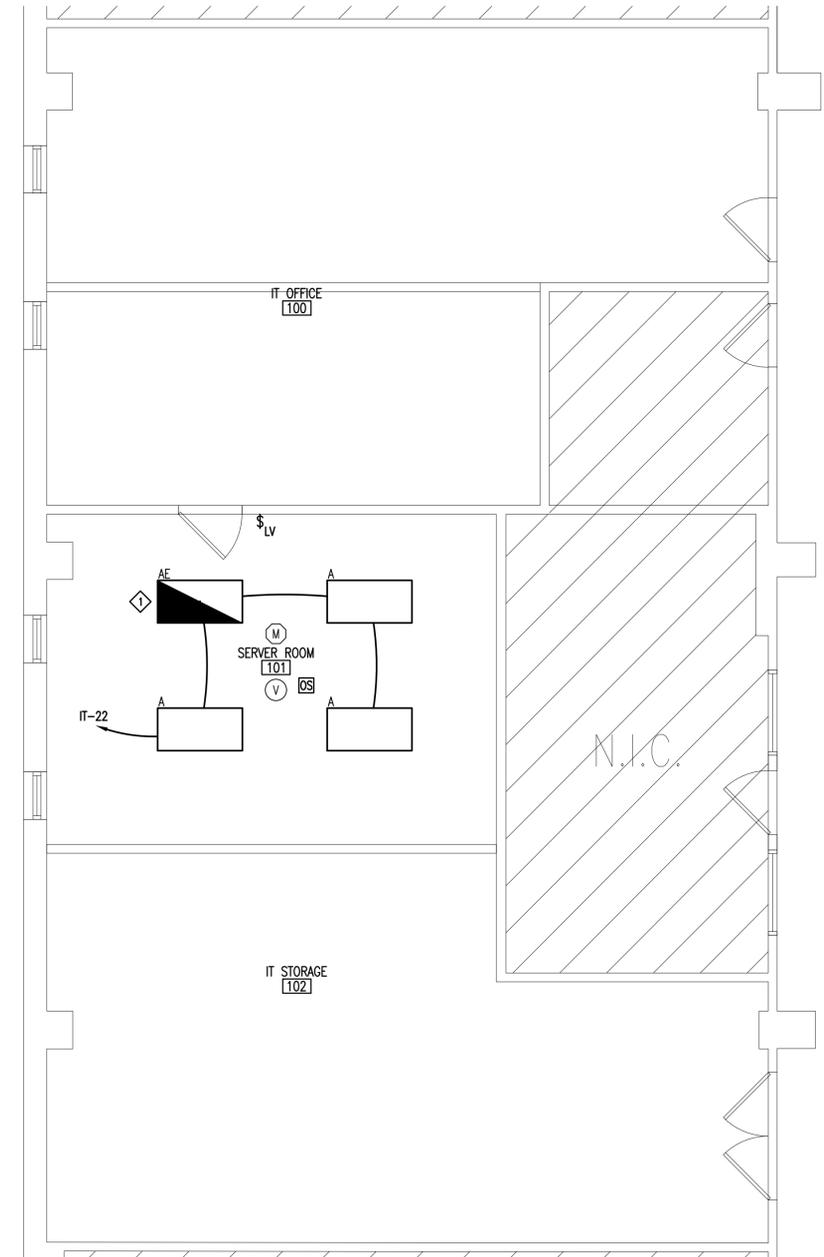
- ① REMOVE ALL LIGHT FIXTURES, LIGHT SWITCHES, LIGHT CONTROLS AND LIGHTING CIRCUITS IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED.
- ② REMOVE ALL RECEPTACLES, DEVICE BOXES AND RECEPTACLE CIRCUITS IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED.
- ③ REMOVE ALL FIRE ALARM SYSTEM DEVICES, DEVICE BOXES AND FIRE ALARM CIRCUITS IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED.
- ④ REMOVE ALL SECURITY DEVICES, DEVICE BOXES AND SECURITY CIRCUITS IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED.
- ⑤ REMOVE ALL TELE/DATA OUTLETS, DEVICE BOXES AND TELE/DATA CIRCUITS IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED.
- ⑥ REMOVE ALL LOCAL AREA NETWORK DEVICES, DEVICE BOXES AND LOCAL AREA NETWORK CIRCUITS IN THEIR ENTIRETY, UNLESS OTHERWISE NOTED.
- ⑦ REMOVE IN THEIR ENTIRETY ALL CIRCUITS TO MECHANICAL AND/OR PLUMBING EQUIPMENT WHICH IS BEING REMOVED. SEE MECHANICAL AND PLUMBING DRAWINGS FOR LOCATION AND DEFINITION OF EQUIPMENT TO BE REMOVED.

ELECTRICAL — GROUND FLOOR PLAN — DEMOLITION
 SCALE: 1/4" = 1'-0"

PROPOSED IMPROVEMENTS FOR:
BCFL - DOYLESTOWN
 150 S. PINE STREET
 DOYLESTOWN, PA 18901
 DOYLESTOWN, BUCKS COUNTY

RHJ ASSOCIATES, P.C.
 ARCHITECTS • PLANNERS • DESIGNERS
 10 LEOPARD RD.
 PAOLI, PA 19301
 610 337 4855
 www.rhjasoc.com

DATE: 03/06/2026
 BID SET



ELECTRICAL - GROUND FLOOR PLAN - NEW WORK - LIGHTING
 SCALE: 1/4" = 1'-0"

NEW WORK LIGHTING NOTES:

- ◇ CONNECT ALL EMERGENCY LIGHT FIXTURE EMERGENCY DRIVERS TO THE UNSWITCHED HOT LEG OF THE AREA LIGHTING CIRCUIT AND THE NORMAL DRIVERS TO THE SWITCHED HOT LEG SUCH THAT FIXTURES ARE SWITCHED WITH NORMAL FIXTURES BUT ARE ON AT APPROXIMATELY FULL BRIGHTNESS ON LOSS OF POWER. TEST SWITCHES FOR EMERGENCY DRIVERS SHALL BE EASILY ACCESSIBLE WITHIN THE OPEN PORTION OF THE FIXTURE WITHOUT REMOVING ANY TRIMS OR SHALL BE MOUNTED IN A JUNCTION BOX ADJACENT TO THE FIXTURE ACCESSIBLE FROM THE ROOM.

LIGHTING CONTROL DEVICES

- (M) **MOTION SENSOR:** PROVIDE MOTION SENSOR CONNECTED TO ROOM CONTROLLER AS REQUIRED TO PROVIDE COMPLETE COVERAGE IN THE SPACE. SENSORS SHALL BE DUAL TECHNOLOGY UNLESS OTHERWISE NOTED.

LIGHTING CONTROL SEQUENCE OF OPERATIONS

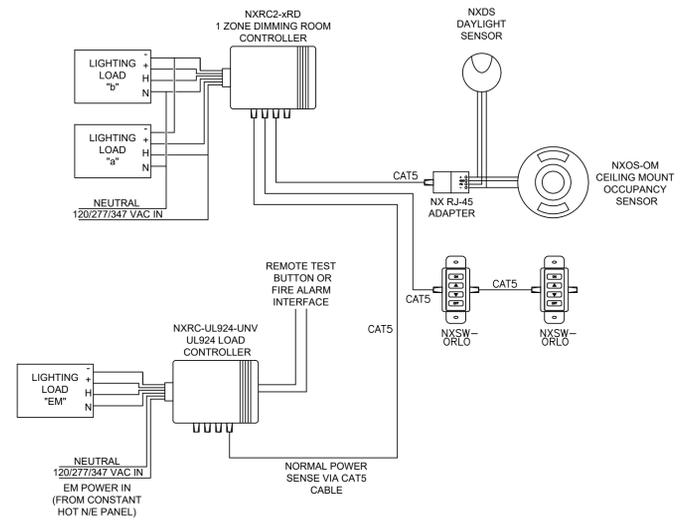
- (V) **VACANCY BASED CONTROL:** MANUAL ON, AUTO OFF. MANUAL CONTROL FROM WALL DEVICE. TIME OUT SHALL BE SET TO NO MORE THAN 20 MINUTES.

LIGHTING GENERAL NOTE:

- EC SHALL COORDINATE WITH LEGEND AND SPECIFICATIONS FOR ALL EQUIPMENT TO BE PROVIDED PER THE LIGHTING NEW WORK PLANS.

(M)
 ROOM NAME
 [123]
 (V)

TYPICAL SEQUENCE DESIGNATION
 SCALE: NONE



NX UL924 EMERGENCY LIGHTING SYSTEM WIRING DIAGRAM (TYPICAL)
 NO SCALE

LIGHT FIXTURE SCHEDULE

MOUNTING LOCATION: CEILING - CLG; FLOOR - FLR; GROUND - GND; POLE - PL; SUSPENDED - SUS; WALL - WL
 MOUNTING TYPE: FLUSH - FLS; PENDANT - PEN; PEDESTAL - PED; SURFACE - SUR; TRACK - TRK; CH-CHAIN HUNG; ACA-AIRCRAFT CABLE; CEILING HEIGHT - CLG-HT

TYPE	MANUFACTURER	CAT NO	DESCRIPTION	LOAD			LAMPS			MOUNTING			REMARKS
				VOLTS	WATTS	NO	TYPE	LOCATION	TYPE	HEIGHT			
A	RAB	EZP2X4/D10_40W_3500K	2X4 PANEL	120	40	-	LED	CLG	FLS	CLG HT			
AE	RAB	EZP2X4/D10/E2_40W_3500K	2X4 PANEL W/ BATTERY	120	40	-	LED	CLG	FLS	CLG HT			

*See REMARKS section.
 NOTES:

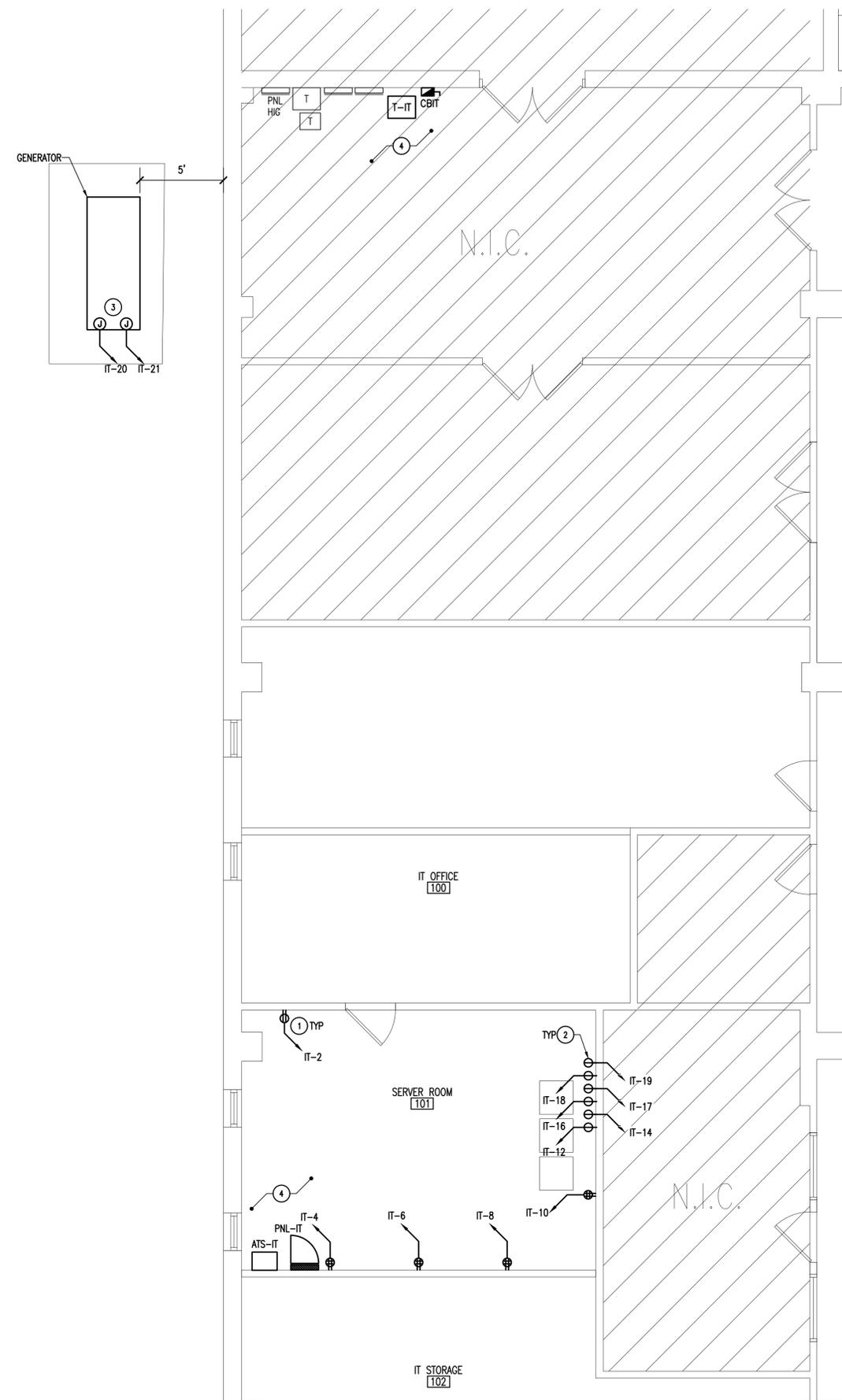
DATE: 03/06/2026
 BID SET

NEW WORK POWER & SIGNAL NOTES:

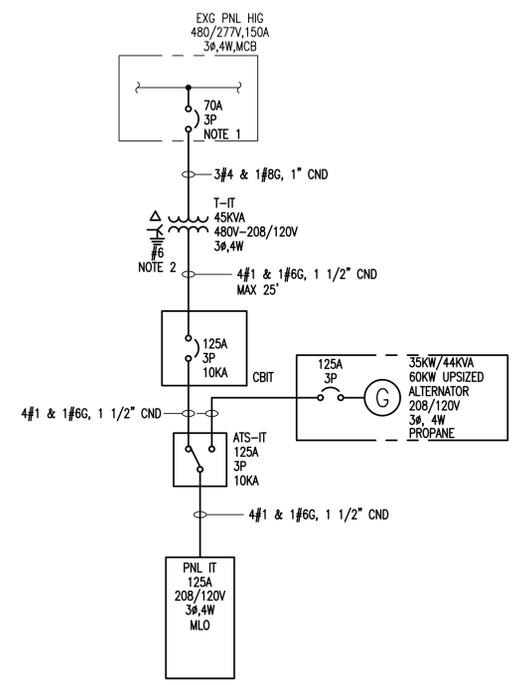
1. VERIFY EXACT LOCATION AND/OR MOUNTING HEIGHT OF ALL DEVICES (I.E. RECEPTACLES, TELE/DATA, ETC) WITH OWNER PRIOR TO ROUGH-IN.
2. VERIFY RECEPTACLE CONFIGURATION WITH EQUIPMENT VENDOR AND OWNER PRIOR TO INSTALLATION.
3. IN ADDITION TO POWER CONDUITS SHOWN ON SINGLE LINE DIAGRAM AND PLAN VIEW, PROVIDE SEPARATE CONDUITS (MIN 1") FOR CONTROL TO GENERATOR ANNUNCIATOR PANEL, MAIN/ATS, AND FIRE PUMP CONTROLLER.
4. COORDINATE MOUNTING OF ELECTRICAL PANELS WITH OTHER TRADES TO MAINTAIN CODE REQUIRED WORKING AND DEDICATED CLEARANCES AROUND ALL PANELS PER NEC. REQUIRED WORKING CLEARANCE SHALL BE MAINTAINED AT ALL TIMES AND SHALL NOT USED FOR STORAGE, ADDITIONAL EQUIPMENT, ETC.

PANEL		IT	
VOLTAGE (L-N):	120	ENCLOSURE TYPE:	DOOR IN DOOR
VOLTAGE (L-L):	208	MOUNTING:	SURFACE
PHASES, WIRES:	3 ϕ 4 W	AIC RATING (A):	10000
MINIMUM BUS CAPACITY (A):	125 A	NOTES:	----

CKT NO	DESCRIPTION	TRIP AMPS	POLE	PHASE LOADS (VA)			POLE	TRIP AMPS	DESCRIPTION	CKT NO	
				A	B	C					
1,3,5	AH-1	15	3	672	180		1	20	RECP-IT	2	
						672	1	20	QUAD-DEDICATED	4	
							1	20	QUAD-DEDICATED	6	
7,9,11	CU-1	45	3	2892	360		1	20	QUAD-DEDICATED	8	
						2892	1	20	QUAD-DEDICATED	10	
							1	20	SINGLE-DEDICATED	12	
13,15	EW-1	20	2	1500	1800		1	20	SINGLE-DEDICATED	14	
						1500	1	20	SINGLE-DEDICATED	16	
17	SINGLE-DEDICATED	20	1				1	20	SINGLE-DEDICATED	18	
19	SINGLE-DEDICATED	20	1	1800	1500		1	20	BATTERY CHARGER	20	
21	JACKET HEATER	20	1			1500	1	20	LIGHTING IT	22	
23	DUPLEX-DEDICATED	20	1				1	20	SPARE	24	
25	SPARE	20	1	0	0		1	20	SPARE	26	
27	SPARE	20	1	0	0		1	20	SPARE	28	
29	SPARE	20	1	0	0		1	20	SPARE	30	
				CONNECTED LOAD PHASE TOTALS (VA)							
				10704	9224	9504					
				CONNECTED LOAD (kVA)			DEMAND FACTOR		DEMAND LOAD (kVA)		DEMAND LOAD
				10.8	1.25	13.5					32.2 KVA
				10.7	1.00	10.7					SPARE CAPACITY 12.9 KVA
				3.0	1.00	3.0					SPARE CAPACITY 35.7 AMPS
				3.0	1.00	3.0					SPARE CAPACITY 29%
				1.8	1.00	1.8					PHASE BALANCE
				0.1	1.25	0.2					A TO B 86%
											B TO C 97%
											C TO A 89%
TOTAL:				29.4		32.2					
LOAD (AMPS):				81.7		89.3					



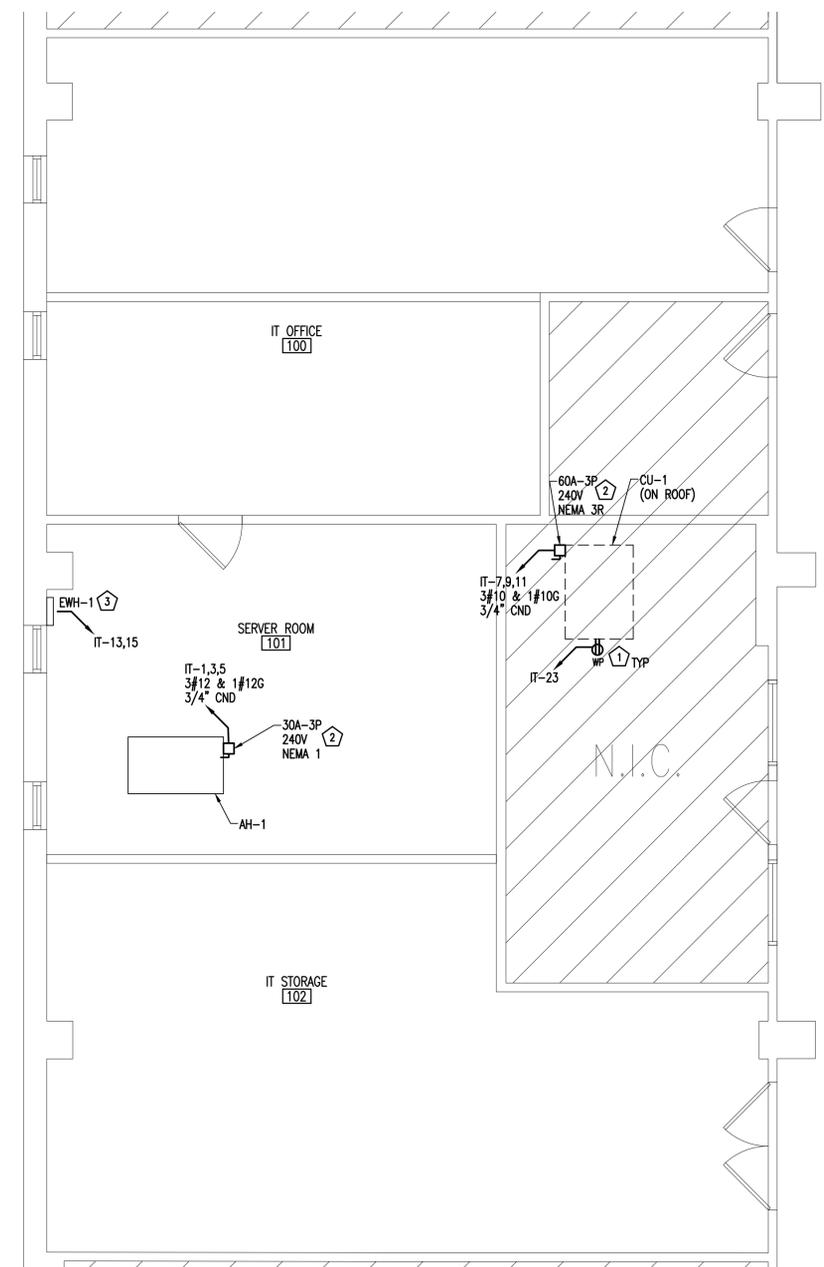
ELECTRICAL - GROUND FLOOR PLAN - NEW WORK - POWER & SIGNAL
 SCALE: 1/4" = 1'-0"



PARTIAL SINGLE LINE DIAGRAM
 NO SCALE

SINGLE LINE/SERVICE NOTES:

1. PROVIDE NEW CIRCUIT BREAKER MATCH EXISTING MANUFACTURER AND AIC RATINGS.
2. PROVIDE GROUNDING ELECTRODE CONDUCTOR FOR SEPARATELY DERIVED SYSTEM IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE.



ELECTRICAL - GROUND FLOOR PLAN - NEW WORK - MECHANICAL POWER
 SCALE: 1/4" = 1'-0"

NEW WORK MECHANICAL POWER NOTES:

- 1 VERIFY EXACT LOCATION AND/OR MOUNTING HEIGHT WITH OWNER PRIOR TO ROUGH-IN.
- 2 MOUNT DISCONNECT SWITCH AND RECEPTACLE ON NON-REMOVABLE PANEL OF UNIT OR ON NEARBY WALL. DO NOT COVER ANY LABELING. PROVIDE A MINIMUM OF 36" CLEAR SPACE IN FRONT OF DISCONNECT SWITCH.
- 3 UNIT IS PROVIDED WITH INTEGRAL DISCONNECT SWITCH AND MAINTENANCE RECEPTACLE.

DATE: 03/06/2026
 BID SET

M:\Current\2025\25-339 BCFL Server Room - Doylestown PA\Drawings\25-339 Electrical.dwg