DOMINICAN UNIVERSITY

HENNESSY CENTER

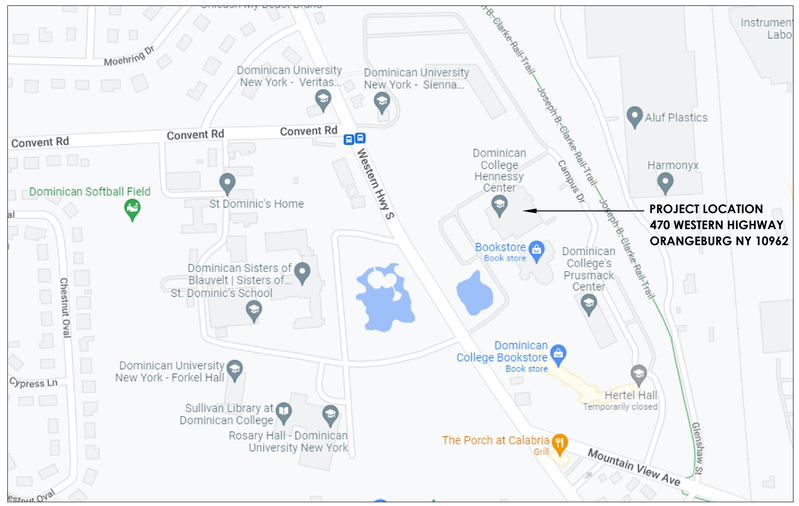
ROOFTOP HVAC INSTALLATION

495 WESTERN HIGHWAY,
ORANGEBURG, NY 10962

GENERAL NOTES

THE DESIGN OF THIS PROJECT CONFORMS TO ALL APPLICABLE PROVISIONS OF NEW YORK STATE UNIFORM FIRE PREVENTION AND BUILDING CODE, THE NEW YORK STATE ENERGY CONSERVATION CODE, AND THE MANUAL OF PLANNING STANDARDS OF THE NEW YORK STATE EDUCATION DEPARTMENT.

THE WORK OF THIS PROJECT WILL NOT INVOLVE KNOWN OR SUSPECTED ASBESTOS-CONTAINING BUILDING MATERIALS AND WILL BE DONE IN ACCORDANCE WITH INDUSTRIAL CODE RULE #56.



DRAWING LIST

OWNER

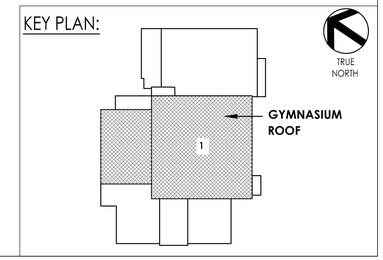
DOMINICAN UNIVERSITY
470 WESTERN HIGHWAY
ORANGEBURG NY, 10962
T. 845-848-7814

www.url.com

ARCHITECTURE, ENGINEERING

CPL
2875 ROUTE 35, SUITE 7S-1
KATONAH, NY 10536
T. 914-276-0777
F. 914-276-0779
CPLTEAM.COM

KEY PLAN:



CPL | Architecture Engineering Planning
2875 Route 35, Suite 7S-1
Katonah, NY 10536
CPLteam.com

DOMINICAN UNIVERSITY NEW YORK

PROJECT INFORMATION

Project Number
16669.00

Client Name
DOMINICAN UNIVERSITY

Project Name
HENNESSY CENTER
ROOFTOP HVAC INSTALLATION

Project Address
495 WESTERN HIGHWAY
ORANGEBURG, NY 10962

PROJECT ISSUE & REVISION SCHEDULE

No.	Date	Description

PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

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SHEET INFORMATION

Issued	Scale
08/22/2022	NO SCALE
Project Status	
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Drawn By	Checked By
CG	CG

Drawing Title
TITLE SHEET

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Revision Number:

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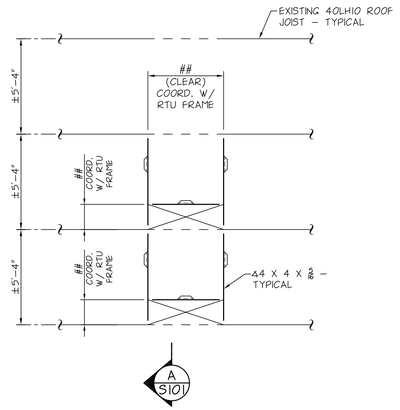
Date last plotted: 8/22/2022 11:45 AM
Plotted By: Charlene Gabriel



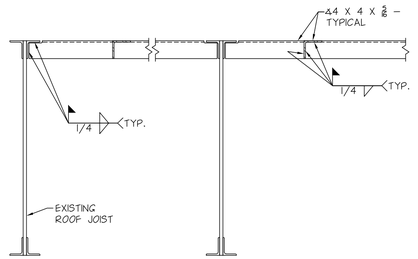
RTU SUPPORT FRAMING

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

STRUCTURAL NOTES

1. STRUCTURAL STEEL:
   A. DESIGN STANDARD. . . . . A.I.S.C. 2010
   B. DETAILING STANDARD. . . . . A.I.S.C. 2010
   C. GRADE . . . . . A.S.T.M. A36
   D. SHOP COAT . . . . . RED OXIDE PRIMER

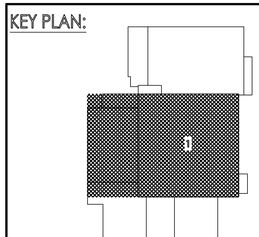
2. CONNECTIONS:
   A. WELDS. . . . . E 70 XX ELECTRODES



SECTION A S101

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

KEY PLAN:



TRUE NORTH

CPL | Architecture Engineering Planning
2875 Route 35, Suite 75-1
Katonah, NY 10536
CPLnam.com

ZANGRILLI ENGINEERING, P.C.
322 ORISKANY BOULEVARD
WHITESBORO, NEW YORK 13492
(315) 736-7011

PROJECT INFORMATION

Project Number
14469.00

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ROOFTOP HVAC INSTALLATION

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No.	Date	Description
1	08.31.22	Issued to Bid

PROFESSIONAL STAMPS

SHEET INFORMATION

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Drawn by	**Checked by**
AJB	AJB

Drawing Title
RTU SUPPORT FRAMING

Drawing Number: S101
Revision Number:

Sheet size: 24x36
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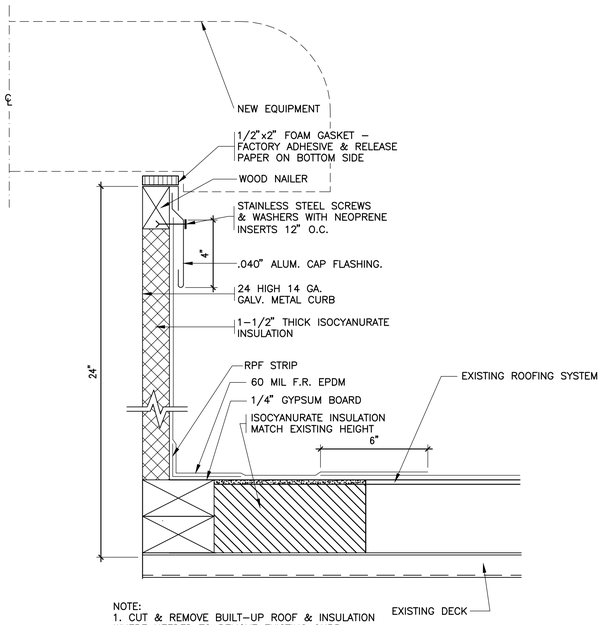
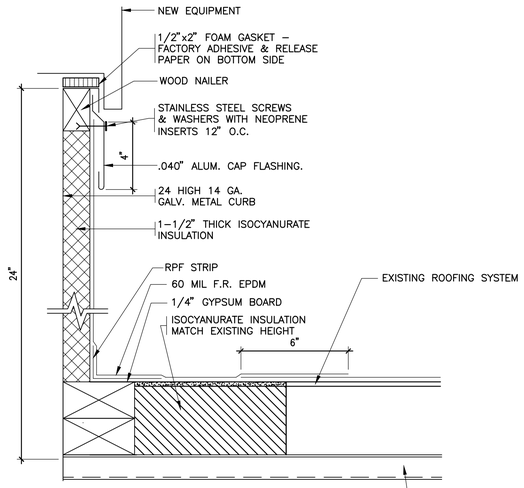


NOTE:
1. CUT & REMOVE BUILT–UP ROOF & INSULATION WHERE NEEDED TO REMOVE EXISTING CURB.

2. INSTALL NEW 24" HIGH CURB.

3. RESTORE INSULATION & BUILT–UP ROOF.

2 FAN CURB (BUR)
SCALE: 3"=1'–0"



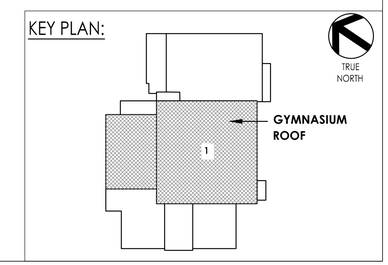
NOTE:
1. CUT & REMOVE BUILT–UP ROOF & INSULATION WHERE NEEDED TO REMOVE EXISTING CURB.

2. INSTALL NEW 24" HIGH CURB.

3. RESTORE INSULATION & BUILT–UP ROOF.

1 HVAC CURB (BUR)
SCALE: 3"=1'–0"

KEY PLAN:



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CG	CG

Drawing Title
ROOF DETAILS

Drawing Number	Revision Number
DU A501	

Sheet size: 24x36
Drawing Name: S:\Projects\Dominican Coll\Gym Roof Study\D Design\04 CAD\ACAD\ARCH\A5\A501.dwg
Date last accessed: 8/19/2022 9:41 AM
Date last plotted: 8/22/2022 11:29 AM
Plotted By: Charlene Gabriel

HVAC SYMBOLS LIST

SYMBOL	DESCRIPTION
AAD	AUTOMATIC AIR DAMPER
ACC	AIR-COOLED CONDENSING UNIT
AD	ACCESS DOOR
AFF	ABOVE FINISHED FLOOR
AHU	AIR HANDLING UNIT
BBD	BOILER BLOW DOWN
BD	BACKDRAFT DAMPER
CA	COMPRESSED AIR
CD	COOLING COIL CONDENSATE DRAIN
CFM	CUBIC FEET PER MINUTE
CHWR	CHILLED WATER RETURN
CHWS	CHILLED WATER SUPPLY
CR	CONDENSER WATER RETURN
CS	CONDENSER WATER SUPPLY
CW	DOMESTIC COLD WATER
D	DRAIN
(E)	EXISTING
EA	EXHAUST AIR
EC	ELECTRICAL CONTRACTOR
EF	EXHAUST FAN
ERHC	ELECTRIC REHEAT COIL
ETR	EXISTING TO REMAIN
EUH	ELECTRIC UNIT HEATER
F&T	FLOAT AND THERMOSTATIC TRAP
FCU	FAN-COIL UNIT
FPM	FEET PER MINUTE
FT	FIN-TUBE
GC	GENERAL CONTRACTOR
GR	GLYCOL RETURN
GS	GLYCOL SUPPLY
HC	HVAC CONTRACTOR
HHWR	HEATING HOT WATER RETURN
HHWS	HEATING HOT WATER SUPPLY
HP	HEAT PUMP
HPC	HIGH PRESSURE CONDENSATE
HPS	HIGH PRESSURE STEAM
LF	LINEAR FOOTAGE OF FIN-TUBE RADIATION
LPC	LOW PRESSURE CONDENSATE
LPG	LIQUEFIED PROPANE GAS
LPS	LOW PRESSURE STEAM
MBH	1,000 BTU/HR
MC	MECHANICAL CONTRACTOR
MPC	MEDIUM PRESSURE CONDENSATE
MPS	MEDIUM PRESSURE STEAM
MRD	MONOFLO FITTING DOWN – HHWR
MSD	MONOFLO FITTING DOWN – HHWS
MUW	MAKE-UP WATER
NC	NORMALLY CLOSED
NG	NATURAL GAS
NO	NORMALLY OPEN
NTS	NOT TO SCALE
OA	OUTSIDE AIR
PC	PLUMBING CONTRACTOR
PD	PUMP DISCHARGE
PHWR	PRIMARY HEATING HOT WATER RETURN
PHWS	PRIMARY HEATING HOT WATER SUPPLY
RA	RETURN AIR
RD	REFRIGERANT DISCHARGE
RHC	HOT WATER REHEAT COIL
RLL	REFRIGERANT LIQUID PIPE
RSL	REFRIGERANT SUCTION PIPE
RTU	ROOFTOP UNIT
RV	ROOF VENT
SA	SUPPLY AIR
SHWR	SECONDARY HEATING HOT WATER RETURN
SHWS	SECONDARY HEATING HOT WATER SUPPLY
SSI	SPLIT SYSTEM INDOOR SECTION (EVAPORATOR SECTION)
SSO	SPLIT SYSTEM OUTDOOR SECTION (CONDENSING UNIT)
TC	TEMPERATURE CONTROLS CONTRACTOR
UH	UNIT HEATER
UV	UNIT VENTILATOR
V	VENT
WAHP	WATER-TO-AIR HEAT PUMP
WWHP	WATER-TO-WATER HEAT PUMP

SYMBOL	DESCRIPTION
	CONNECTION - TOP
	CONNECTION - BOTTOM
	DIRECTION OF FLOW
	REDUCER
	CAP OR PLUG
	ELBOW DOWN
	ELBOW UP
	TEE OUTLET - UP
	TEE OUTLET - DOWN
	UNION
	GATE VALVE
	BALL VALVE
	BALANCING VALVE
	STRAINER
	STRAINER WITH BLOW-DOWN
	BUTTERFLY VALVE
PNEUMATIC 2-WAY	BUTTERFLY CONTROL VALVE, PNEUMATIC 2-WAY
ELECTRIC ACTUATOR	BUTTERFLY CONTROL VALVE, ELECTRIC ACTUATOR
	GLOBE VALVE
	CHECK VALVE
	TRIPLE DUTY VALVE
	GAS COCK, PLUG VALVE
	UNDERCUT DOOR 1"
	LOUVERED DOOR W/ SQ. FT. OF FREE AREA
M	AIR VENT - MANUAL
A	AIR VENT - AUTOMATIC
	FLANGE
	CONTROL/SOLENOIND VALVE, ELECTRIC 2-WAY
	CONTROL VALVE, ELECTRIC 3-WAY
	CONTROL VALVE, PNEUMATIC 2-WAY
	CONTROL VALVE, PNEUMATIC 3-WAY
	RELIEF / SAFETY VALVE
	PRESSURE REDUCING VALVE
V	VACUUM BREAKER
	FLEXIBLE PIPE CONNECTOR
	EXPANSION COMPENSATOR W/ GUIDES
	EXPANSION JOINT
	PIPE ANCHOR
	PIPE GUIDE
TT	THERMOSTATIC TRAP
FT	FLOAT & THERMOSTATIC TRAP
BT	BUCKET TRAP
TD	THERMODYNAMIC TRAP
	THERMOMETER
	WELL
	PRESSURE GAUGE
	STEAM PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
	PRESSURE GAUGE WITH 1/4" NEEDLE VALVE
	PNEUMATIC (CONTROL) TUBING
	BUTTERFLY VALVE WITH PNEUMATIC AND MANUAL OPERATORS
XX	PIPING
XX	PIPING BELOW GRADE
	BASE MOUNTED PUMP
	IN-LINE PUMP
	AIR TERMINAL UNIT WITH REHEAT COIL AND SOUND ATTENUATOR
	AIR TERMINAL UNIT WITH SOUND ATTENUATOR
	AIR TERMINAL UNIT WITH REHEAT COIL
	AIR TERMINAL UNIT
W/W ENCL.	WALL TO WALL FIN TUBE ENCLOSURE

SYMBOL	DESCRIPTION
(DBL)	DOUBLE WALL LINED DUCT
20/10	DUCT SECTION - SUPPLY
20/10	DUCT SECTION - RETURN/EXHAUST
A"	DUCT SECTION - ROUND DUCT IN INCHES
AXB FO	DUCT SECTION - FLAT OVAL DUCT IN INCHES
	ACOUSTIC THERMAL LINING
	FLEXIBLE DUCTWORK
FC	FLEXIBLE CONNECTION
	FIRE DAMPER
	SMOKE DAMPER
	COMBINATION FIRE AND SMOKE DAMPER
VD	VOLUME DAMPER
	DAMPER CONTROL, PARALLEL BLADE
	DAMPER CONTROL, OPPOSED BLADE
AAD	AUTOMATIC AIR DAMPER
BDD	BACK DRAFT DAMPER
BG	BLAST GATE
20/10, 12X10, 10/20	AIR DUCT (FIRST FIGURE IS DUCT WIDTH/TOP, SECOND FIGURE IS DUCT DEPTH)
	MULTI-BLADE AIR EXTRACTOR
	TURNING VANES
	EXISTING WORK TO BE REMOVED (HATCHED)
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	AIR FLOW SENSOR
	FILTER
	TRANSITION SQUARE TO ROUND
	HUMIDIFIER DISPERSION TUBE
RISE / DROP	RISE IN DUCT
DROP	DROP IN DUCT
	SQUARE CEILING DIFFUSER (4 WAY)
	ROUND CEILING DIFFUSER
	SQUARE OR RECTANGULAR CEILING GRILLE
	SUPPLY REGISTER, RETURN OR EXHAUST GRILLE
1-WAY 2-WAY 3-WAY	SUPPLY DIFFUSER, 1-WAY, 2-WAY, 3-WAY
8"Ø D-3 300 CFM	CEILING DIFFUSER WITH NECK SIZE, TYPE, & CFM
10"x10", G-3 300 CFM	CEILING RETURN OR EXHAUST GRILLE WITH SIZE, TYPE, & CFM
10"x8", R-2 300 CFM	SUPPLY REGISTER WITH SIZE, TYPE, & CFM
10"x8", G-2 300 CFM	RETURN OR EXHAUST GRILLE WITH SIZE, TYPE, & CFM
	AIR FLOW
L1	ACOUSTIC/THERMAL DUCTWORK LINING - 1 INCH THICK
L2	ACOUSTIC/THERMAL DUCTWORK LINING - 2 INCH THICK
PL1	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 1 INCH THICK
PL2	ACOUSTIC/THERMAL DUCTWORK PLENUM LINING - 2 INCH THICK

SYMBOL	DESCRIPTION
24X12 / 12X10 / VD	SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
24X12 / 8"Ø / VD	SUPPLY / RETURN / EXHAUST AIR TAKEOFFS
14"Ø / 10"Ø / VD	SUPPLY AIR TAKEOFFS
14"Ø / 10"Ø / VD	SUPPLY AIR TAKEOFFS
24X12 / 6X12 / 12X10 / 18X12 / 20X12	SUPPLY AIR TAKEOFFS
24X12 / 12X10 / VD	SUPPLY/RETURN EXHAUST AIR TAKEOFFS W/ REGISTER/GRILLE/ DIFFUSER
VD	SUPPLY/RETURN EXHAUST AIR END OF MAIN BRANCH TAKEOFFS
VD	SUPPLY/RETURN EXHAUST AIR END OF MAIN BRANCH TAKEOFFS
W, R	LONG RADIUS 90° ELBOW R/W=1.5
W, R	LONG RADIUS 45° ELBOW R/W=1.5
	90° ELBOW WITH TURNING VANES
18X16, 18X8	90 VERTICAL SPLIT OFF (PLAN VIEW)
20X10, 20X10	DUCT TURNING UP OR DOWN
U MAX MIN	AIR TERMINAL UNIT-DUCTWORK U - UNIT TYPE MAX = MAXIMUM CFM MIN = MINIMUM CFM
U GPM MAX	AIR TERMINAL UNIT-DUCTWORK U - UNIT TYPE GPM = GALLONS PER MIN MAX = MAXIMUM GPM
U MAX MIN FAN	FAN POWERED AIR TERMINAL UNIT U - UNIT TYPE MAX = PRIMARY MAX CFM MIN = PRIMARY MIN CFM FAN = FAN CFM
TYPE / COIL SIZE / CLNG GPM / HTNG GPM	TYPE = VALANCE TYPE COIL SIZE = COIL LENGTH CLNG GPM = COOLING GPM HTNG GPM = HEATING GPM
X / XX	X = DIFFUSER OR GRILL TYPE XX = AIR FLOW VALUE (CFM)

SYMBOL	DESCRIPTION
	ELECTRIC/PNEUMATIC SWITCH OR RELAY
	PNEUMATIC/ELECTRIC SWITCH OR RELAY
CT	CURRENT TRANSDUCER
	OPEN/CLOSED
	START/STOP
	ENABLE/DISABLE
	TEMPERATURE SENSOR (DUCT OR PIPE MOUNTED)
	HUMIDITY SENSOR (DUCT MOUNTED)
	FLOW TRANSMITTER
	PRESSURE TRANSMITTER
	DIFFERENTIAL PRESSURE TRANSMITTER
	ELECTRIC/PNEUMATIC TRANSDUCER
	ELECTRIC/ELECTRONIC TRANSDUCER
	DUCT SMOKE DETECTOR
	SPACE THERMOSTAT
	SPACE TEMPERATURE SENSOR
CO2	SPACE CARBON DIOXIDE SENSOR
CH4	SPACE NATURAL GAS SENSOR
CO	SPACE CARBON MONOXIDE SENSOR
	SPACE SENSOR WITH GUARD
H	SPACE HUMIDISTAT
FS	WATER FLOW SENSOR
	PNEUMATIC ACTUATOR
	ELECTRIC ACTUATOR
VSD VFD	VARIABLE SPEED / FREQUENCY DRIVE
	COOLING COIL
	HEATING COIL
	GAS FURNACE
H	HUMIDIFIER
A	ALARM
S	STATUS
FS	FLOW SWITCH
DP	DIFFERENTIAL STATIC PRESSURE SWITCH
R	RELAY
	PRESSURE GAUGE
FZ	FREEZE-STAT
DI	DIGITAL INPUT (TO BUILDING MANAGEMENT SYSTEM)
DO	DIGITAL OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
AO	ANALOG OUTPUT (FROM BUILDING MANAGEMENT SYSTEM)
AI	ANALOG INPUT (TO BUILDING MANAGEMENT SYSTEM)
	ELECTRICAL INTERFACE
SF	SPEED FEED BACK
ES	END SWITCH
PF	POSITION FEEDBACK
	TRAVERSE AVERAGING SENSOR
	PROBE SENSOR
	FREEZE STAT SENSOR

SYMBOLS GENERAL NOTES:

1) VALVE AND DAMPER ACTUATOR TYPES (ELECTRIC OR PNEUMATIC) WHICH ARE INDICATED IN HVAC TEMPERATURE CONTROL DRAWINGS SHALL SUPERSEDE TYPE INDICATED ON ALL OTHER HVAC DRAWINGS.

HVAC CONTRACTOR GENERAL NOTES:

A. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS WITHIN THE BUILDING PRIOR TO COMMENCEMENT OF ALL DEMOLITION AND NEW WORK.

B. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO REMOVE AND REPLACE EXISTING CEILINGS, UNLESS OTHERWISE NOTED ON THE ARCHITECTURAL DRAWINGS, FOR PERFORMING DEMOLITION OR NEW WORK WITHIN THE BUILDING. THE EXISTING CEILINGS SHALL BE REMOVED IN A MANNER TO AVOID DAMAGE TO THE CEILING SYSTEMS. STORAGE OF CEILING SYSTEM COMPONENTS FOR REINSTALLATION IS THE RESPONSIBILITY OF THE CONTRACTOR. THE STORAGE OF ALL MATERIAL SHALL BE IN AREAS OR LOCATIONS APPROVED BY THE OWNER. THE OWNER WILL NOT COMPENSATE FOR ANY DAMAGED OR LOST MATERIAL WHILE IN STORAGE. AFTER COMPLETION OF ALL DEMOLITION OR NEW WORK, THE CONTRACTOR SHALL REINSTALL THE CEILING SYSTEMS TO MATCH THE ORIGINAL INSTALLATION.

C. DEMOLITION DRAWINGS SHOW MAJOR EQUIPMENT, PIPING, AND DUCTWORK REMOVALS. THE INTENT IS NOT TO IDENTIFY ALL MISCELLANEOUS PIPING, PIPING ACCESSORIES, DUCTWORK, DUCTWORK ACCESSORIES, SUPPORTS, CONTROLS, CONTROL ACCESSORIES, CONTROL WIRING, CONDUIT, AND PNEUMATIC CONTROL TUBING TO BE DISCONNECTED AND REMOVED, BUT IS THE REQUIREMENT UNDER THIS CONTRACT. NO EQUIPMENT, PIPING, OR DUCTWORK SHALL BE ABANDONED IN PLACE, UNLESS OTHERWISE NOTED ON THE DRAWINGS.

D. ALL EQUIPMENT INDICATED TO BE TURNED OVER TO THE OWNER SHALL BE DISCONNECTED AND REMOVED FROM THE EXISTING SYSTEMS AND DELIVERED (INCLUDING LOADING AND UNLOADING) TO A STORAGE AREA WITHIN THE BUILDING AS SELECTED BY THE OWNER. IT WILL BE THE RESPONSIBILITY OF THE CONTRACTOR TO REPAIR ANY EQUIPMENT DAMAGED DURING REMOVAL AND DELIVERY. ANY DAMAGE TO EQUIPMENT PRIOR TO DISCONNECTING SHOULD BE REPORTED TO THE OWNER'S REPRESENTATIVE. IF NOT REPORTED, THE CONTRACTOR TAKES FULL RESPONSIBILITY FOR REPAIRS TO THE EQUIPMENT.

E. BEFORE DISCONNECTING, REMOVING, OR SERVICING ANY AIR CONDITIONING EQUIPMENT OR SYSTEMS CONTAINING REFRIGERANTS, THE EQUIPMENT OR SYSTEMS SHALL BE EVACUATED OF ALL REFRIGERANT PER THE LATEST ADOPTED RULES AND REGULATIONS BY THE UNITED STATES ENVIRONMENTAL PROTECTION AGENCY (EPA). THE CONTRACTOR OR TECHNICIAN PERFORMING THE WORK SHALL BE CERTIFIED BY AN EPA APPROVED CERTIFYING AGENCY OR ORGANIZATION.

F. ALL DUCTWORK, PIPING, AND CONDUIT PENETRATIONS THROUGH RATED WALLS OR FLOORS SHALL BE PROVIDED WITH FIRE/SMOKE STOPPINGS PER SPECIFICATION. REFER TO CODE ANALYSIS DRAWING FOR ALL RATED WALL LOCATIONS. ALL FLOORS SHALL BE CONSIDERED RATED.

G. UNLESS SHOWN ON THE ARCHITECTURAL DRAWINGS, IT IS THE RESPONSIBILITY OF THIS CONTRACT TO PATCH AND FINISH ALL EXISTING DUCTWORK OR PIPE PENETRATIONS THROUGH FLOORS, ROOFS, INTERIOR WALLS, AND EXTERIOR WALLS AFTER DEMOLITION WORK. IN ADDITION, ALL NEW PENETRATIONS SHALL BE PROVIDED FOR INSTALLATION OF MECHANICAL SYSTEMS INCLUDING, BUT NOT LIMITED TO, EQUIPMENT, CURBING, DUCTWORK, PIPING, CONTROLS, ETC. PATCHING AND FINISHING SHALL MATCH EXISTING CONSTRUCTION INCLUDING FIRE RATINGS. PROVIDE LINTELS PER LINTEL SCHEDULE.

H. IT IS NOT THE INTENT OF THE DRAWINGS TO SHOW ALL AIR VENTS AND DRAINS IN THE PIPING SYSTEMS. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO PROVIDE AIR VENTS AT ALL SYSTEM HIGH POINTS AND AT AREAS WITHIN THE PIPING SYSTEMS THAT COULD ACCUMULATE OR TRAP AIR WHICH WOULD PREVENT PROPER VENTING OR OPERATION OF THE SYSTEMS. DRAINS SHALL BE PROVIDED AT ALL LOW POINTS WITHIN THE PIPING SYSTEM TO FACILITATE COMPLETE DRAINING OF THE SYSTEM .

I. PROVIDE THERMAL EXPANSION COMPENSATORS AND THERMAL EXPANSION LOOPS IN PIPING SYSTEM PER INDUSTRY STANDARDS.

CPL | Architecture Engineering Planning
2875 Route 35, Suite 75-1
Katonah, NY 10536
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BEF

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GMM

Drawing Title
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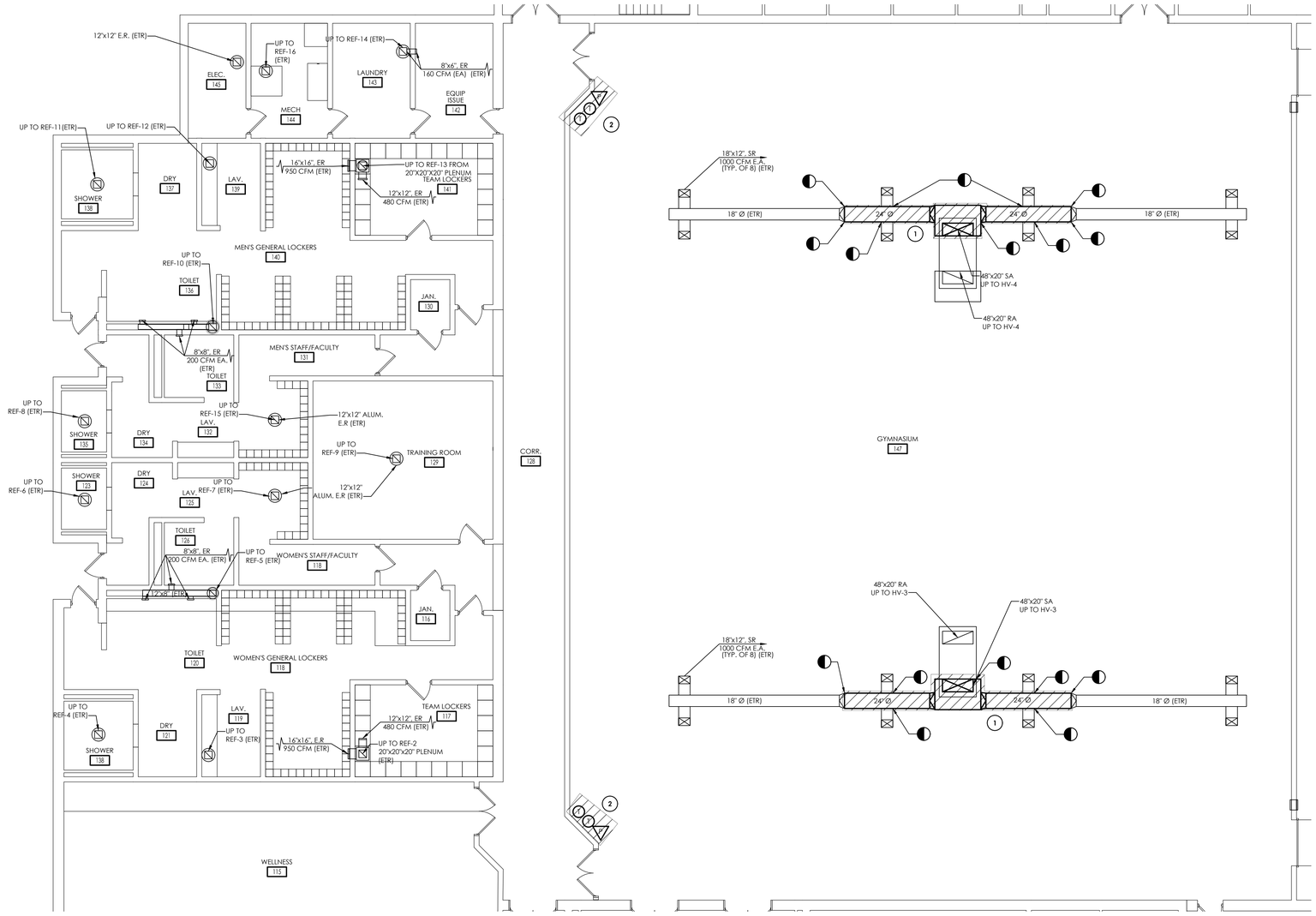
Drawing Number
GEN
H000

KEY NOTES:

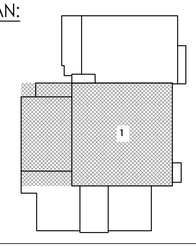
1. REMOVE EXISTING SUPPLY AIR DROP FROM RTU AND 24" Ø MAINS ON BOTH SIDES. CLEAN AND SAVE BRANCH DUCTWORK, GRILLES AND 18" Ø MAINS FOR REINSTALLATION.
2. REMOVE EXISTING TEMPERATURE SENSOR AND PRESSURE SENSORS THAT SERVE ROOFTOP UNITS AND EXISTING RELIEF VENTS TO BE CAPPED. PREPARE FOR NEW WORK.



1 H101 LOCKER ROOM HVAC DEMOLITION PLAN

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

KEY PLAN:



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DOMINICAN UNIVERSITY NEW YORK

PROJECT INFORMATION

Project Number: 16669.00

Client Name: DOMINICAN UNIVERSITY

Project Name: HVAC INSTALLATION

HENNESSY CENTER

Project Address: 495 WESTERN HIGHWAY, ORANGEBURG, NY 10962

PROJECT ISSUE & REVISION SCHEDULE

No.	Date	Description

PROFESSIONAL STAMPS

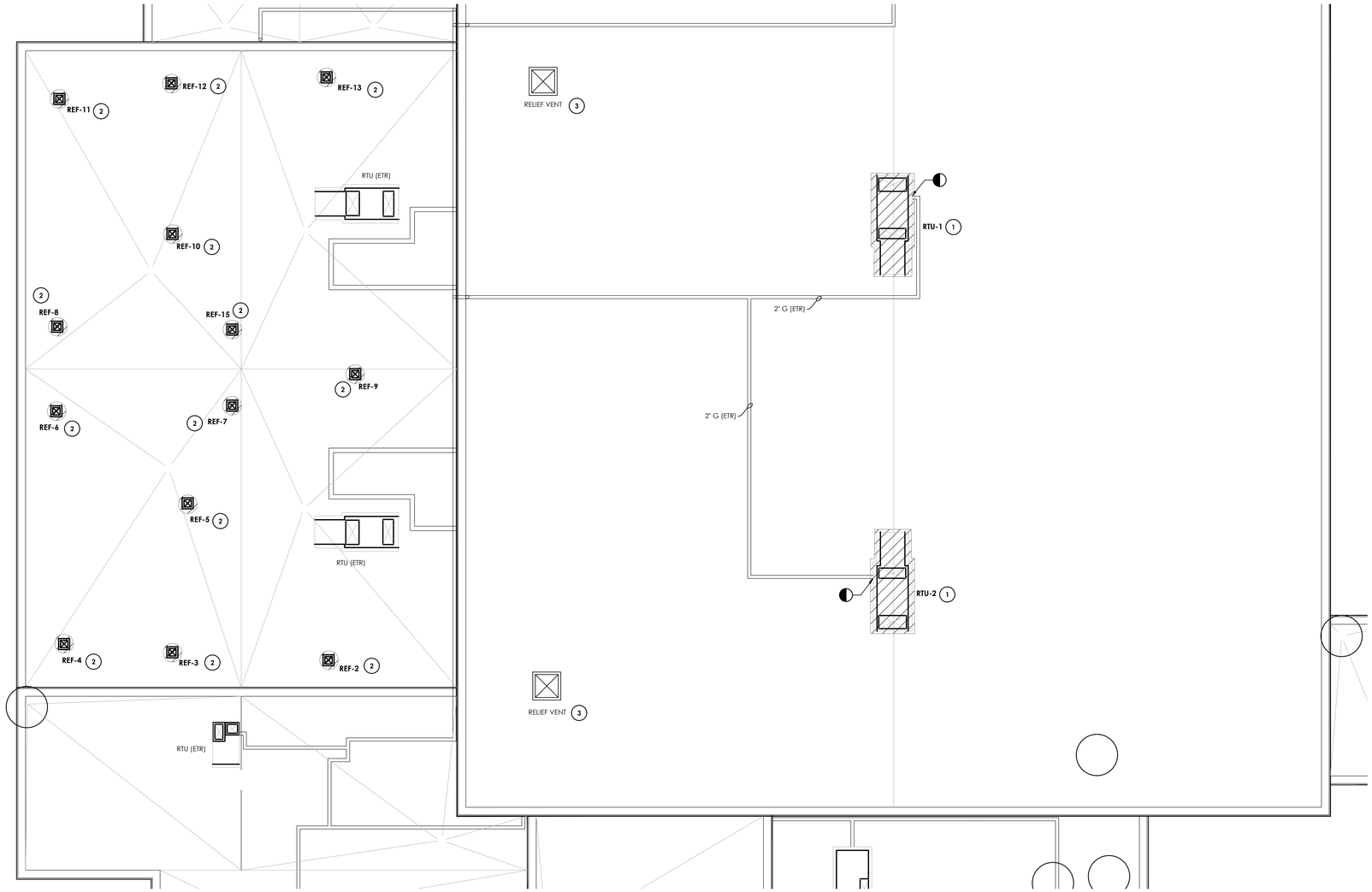
SHEET INFORMATION

Issued	Scale
08/22/2022	1/8" = 1'0"
Project Status: ISSUED TO BID	
Drawn By: BKM	Checked By: GMM

Drawing Title: LOCKER ROOM DEMOLITION PLAN

Drawing Number: DU H101

Sheet size: 24x36
Drawing Name: S:\Projects\Dominican Coll\Gym Roof Study\D Design\06 CAD\ACAD\MECH\H1 H101.dwg | Plotted By: Brendon Mazza | Date last plotted: 8/18/2022 10:20 AM | Date last accessed: 8/17/2022 10:47 AM

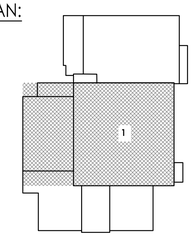


1 H102 **ROOF HVAC DEMOLITION PLAN**
SCALE: 1/8" = 1'-0"

KEY NOTES:

1. REMOVE EXISTING ROOFTOP UNIT AND CURB. DISCONNECT FROM EXISTING GAS PIPING AND PREPARE FOR NEW WORK.
2. ALT 1: REMOVE EXISTING EXHAUST FAN IN ITS ENTIRETY INCLUDING CURB. EXISTING DUCTWORK TO REMAIN. PREPARE FOR NEW WORK.
3. REMOVE EXISTING RELIEF VENT DAMPER AND PROVIDE CURB CAP.

KEY PLAN:



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DOMINICAN UNIVERSITY NEW YORK

PROJECT INFORMATION

Project Number
16669.00

Client Name
DOMINICAN UNIVERSITY

Project Name
HVAC INSTALLATION

HENNESSY CENTER

Project Address
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PROJECT ISSUE & REVISION SCHEDULE

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SHEET INFORMATION

Issued	Scale
08/22/2022	1/8" = 1'0"

Project Status
ISSUED TO BID

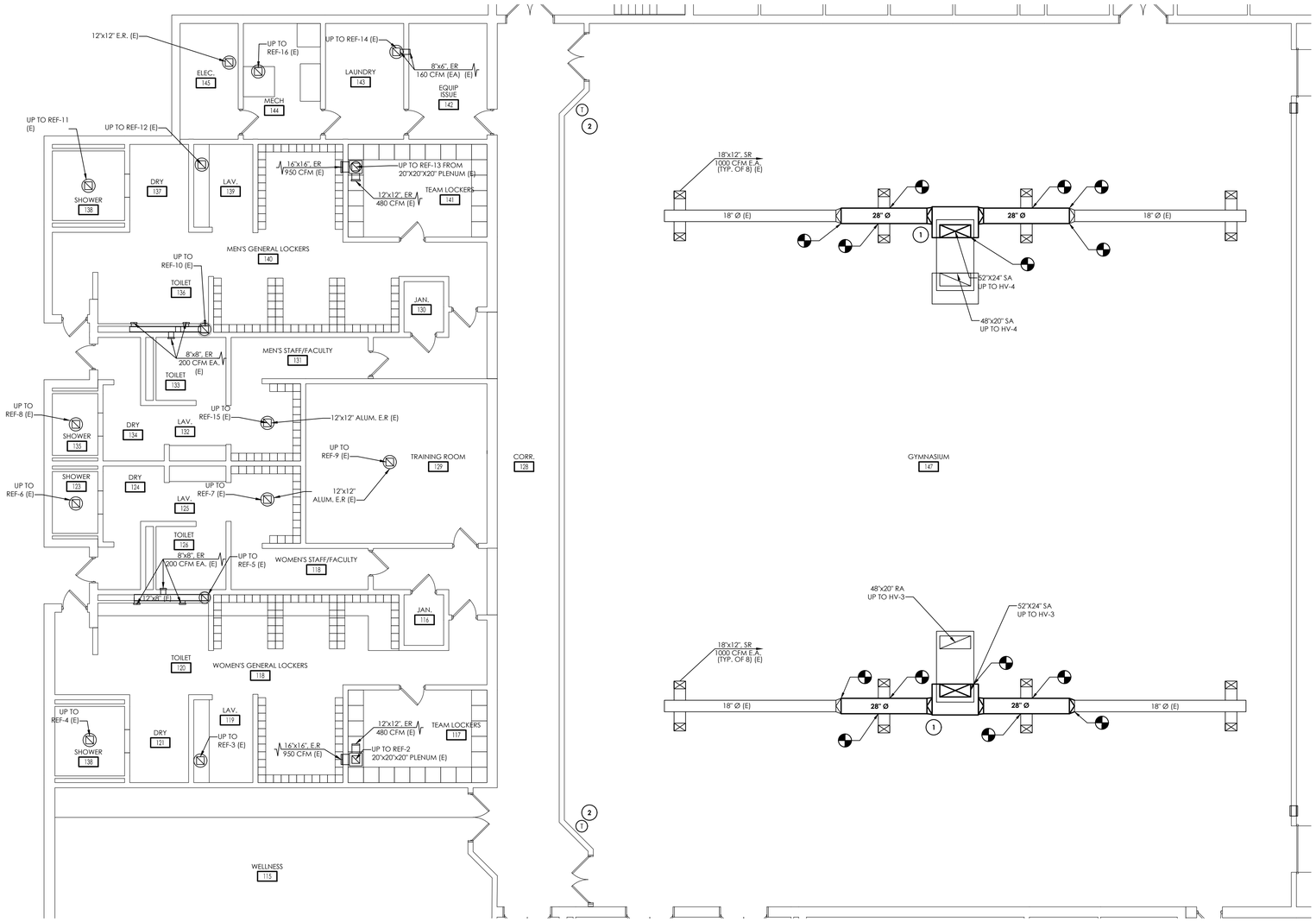
Drawn By	Checked By
BKM	GMM

Drawing Title
ROOF DEMOLITION PLAN

Drawing Number
DU
H102

KEY NOTES:

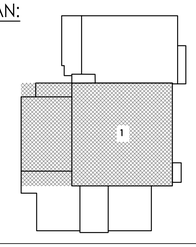
1. PROVIDE NEW SUPPLY AIR DROP AND 28"Ø MAINS WITH 2" INTERNAL DUCT INSULATION. RECONNECT EXISTING BRANCH DUCTWORK AND 18" MAINS. PAINT ALL NEW DUCTWORK TO MATCH EXISTING.
2. PROVIDE NEW PROGRAMMABLE THERMOSTAT TO CONTROL NEW ROOFTOP UNITS. PROVIDE PROTECTIVE COVER.



1 H201 LOCKER ROOM HVAC NEW WORK PLAN

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

KEY PLAN:



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HENNESSY CENTER

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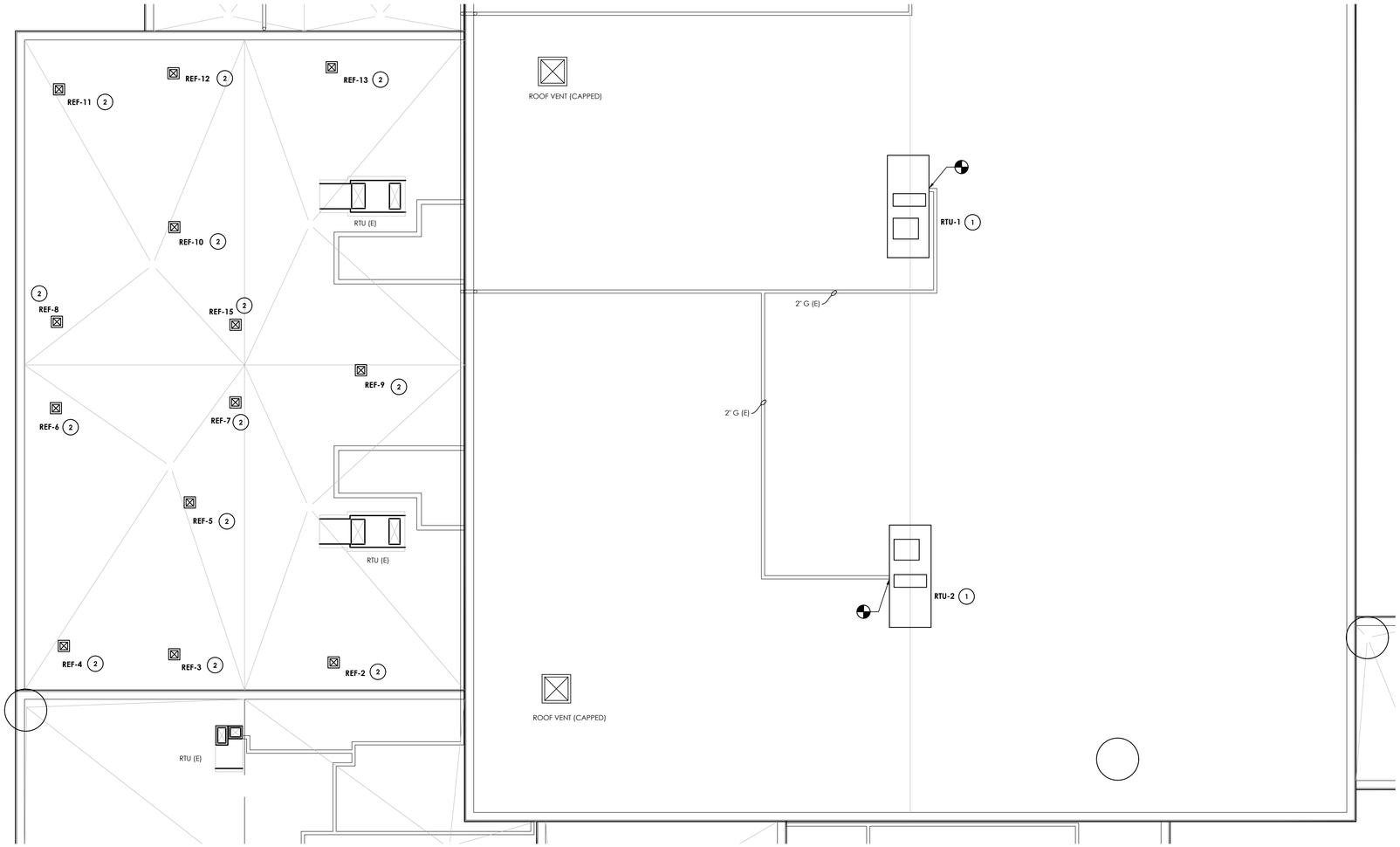
Issued	Scale
08/22/2022	1/8" = 1'0"
Project Status: ISSUED TO BID	
Drawn By: BEF	Checked By: GMM

Drawing Title: LOCKER ROOM NEW WORK PLAN

Drawing Number: DU H201

Sheet size: 24x36
Drawing Name: S:\Projects\Dominican Coll\Gym Roof Study\D Design\06 CAD\ACAD\MECH\H2\H201.dwg | Date last accessed: 8/17/2022 10:47 AM | Date last plotted: 8/18/2022 10:21 AM | Plotted By: Brendon Mazza

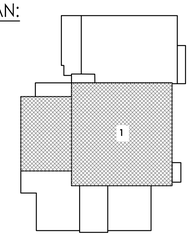


1 H202 **ROOF HVAC NEW WORK PLAN**
SCALE: 1/8" = 1'-0"

KEY NOTES:

1. INSTALL NEW ROOFTOP UNIT AND CURB. RECONNECT TO EXISTING GAS PIPING AND DUCTWORK. PROVIDE NEW SUPPLY DUCTWORK DROP AND RECONNECT TO EXISTING RETURN DUCTWORK.
2. INSTALL NEW EXHAUST FAN AND CURB. RECONNECT TO EXISTING DUCTWORK.

KEY PLAN:



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PROJECT INFORMATION

Project Number
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Client Name
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Project Name
HVAC INSTALLATION

HENNESSY CENTER

Project Address
495 WESTERN HIGHWAY, ORANGEBURG, NY 10962

PROJECT ISSUE & REVISION SCHEDULE

No.	Date	Description

PROFESSIONAL STAMPS

SHEET INFORMATION

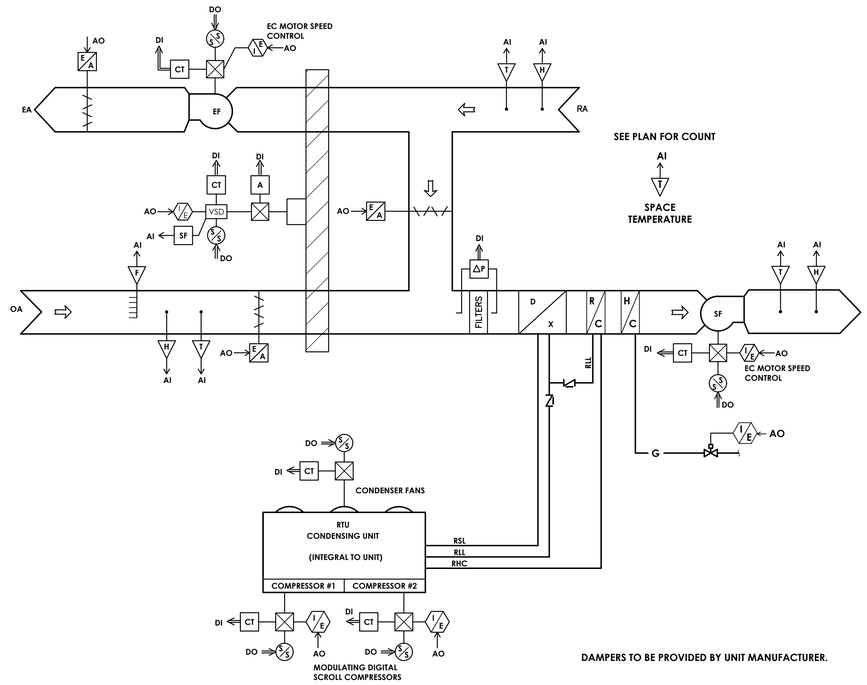
Issued	Scale
08/22/2022	1/8" = 1'0"

Project Status
ISSUED TO BID

Drawn By	Checked By
BEF	GMM

Drawing Title
ROOF NEW WORK PLAN

Drawing Number
DU
H202



1
H500

RTU-1,2 CONTROL SCHEMATIC

SCALE: NOT TO SCALE

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PROJECT INFORMATION

Project Number
16669.00

Client Name
DOMINICAN UNIVERSITY

Project Name
HVAC INSTALLATION

Project Address
495 WESTERN HIGHWAY, ORANGEBURG, NY 10962

Multiple Building Names

PROJECT ISSUE & REVISION SCHEDULE

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SHEET INFORMATION

Issued
08/22/2022

Scale
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Project Status
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Drawn By
BKM

Checked By
GMM

Drawing Title
CONTROL SCHEMATICS

Drawing Number
DU
H500

Sheet size: 24x36
Drawing Name: S:\Projects\Dominican Coll\Gym Roof Study\D Design\06 CAD\ACAD\MECH\HVS\H500.dwg | Date last accessed: 8/17/2022 10:47 AM | Date last plotted: 8/18/2022 10:24 AM | Plotted By: Brendon Mazza

ROOFTOP AIR CONDITIONING UNITS

MARK	WEIGHT (LB)	MODEL	UNIT: ELECTRICAL: VOLTAGE	ELECTRICAL: FLA	ELECTRICAL: MCA (A)	EFFICIENCY: EER / SEER	SUPPLY FAN: AIRFLOW (CFM)	SUPPLY FAN: ESP (IN. WG.	SUPPLY FAN: TSP (IN. WG.)	SUPPLY FAN: MOTOR SIZE (BHP/HP)	EXHAUST FAN: AIRFLOW (CFM)	EXHAUST FAN: ESP (IN. WG.	EXHAUST FAN: TSP (IN. WG.)	EXHAUST FAN: MOTOR SIZE (BHP/HP)	COOLING: EAT DB/WB (°F)	COOLING: LAT DB/WB (°F)	COOLING: TOTAL CAPACITY (MBH)	COOLING: SENSIBLE CAPACITY (MBH)	COOLING: AMBIENT DB/WB (°F)	COOLING: COMPRESSOR STAGES	COOLING: COMPRESSOR QTY	COOLING: COMPRESSOR REFRIGERANT	HEATING: TYPE	HEATING: TOTAL TURNDOWN RATIO	HEATING: TOTAL CAPACITY (MBH)	HEATING: EDB (°F)	HEATING: LDB (°F)	ENERGY RECOVERY: WINTER: O.A. (CFM)	WINTER: OAT (DB/WB)	WINTER: E.A. (CFM)	WINTER: LAT (DB/WB)	WINTER: RECOV. CAP. (MBH)	ENERGY RECOVERY: SUMMER: O.A. (CFM)	SUMMER: OAT (DB/WB)	SUMMER: E.A. (CFM)	SUMMER: LAT (DB/WB)	SUMMER: RECOV. CAP. (MBH)	APD (in. wg.)	REMARKS
RTU-1	3694	AAON RN-025-3-0-EA09-3 89	460/3/60	77	81	10.4	8000	0.5	1.97	6.88/10	8000	0.5	1.97	7.13/10	76.83/63.32	52.98/50.91	370.54	221.67	90/71	2	2	R-410A	GAS	4.5:1	328.1	59.2	97.2	3804	2/1	3804	59.2/60.7	225.76	3804	90/71	3804	76.83/50.91	78.16	0.87	1,2,3,4,5,6,7,8,9, 10,11,12,13
RTU-2	3694	AAON RN-025-3-0-EA09-3 89	460/3/60	77	81	10.4	8000	0.5	1.97	6.88/10	8000	0.5	1.97	7.13/10	76.83/63.32	52.98/50.91	370.54	221.67	90/71	2	2	R-410A	GAS	4.5:1	328.1	59.2	97.2	3804	2/1	3804	59.2/60.7	225.76	3804	90/71	3804	76.83/50.91	78.16	0.87	1,2,3,4,5,6,7,8,9, 10,11,12,13

REMARKS:

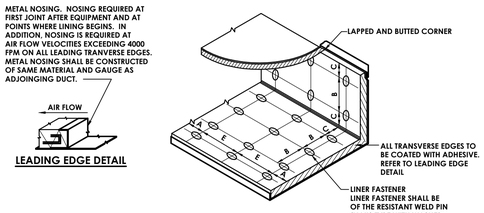
1. FACTORY MOUNTED AND WIRED DISCONNECT
2. HOT GAS REHEAT
3. ECONOMIZER
4. UNIT SELECTION SHALL UTILIZE DIRECT DRIVE PLENUM STYLE SUPPLY AND RETURN FANS WITH PREMIUM EFFICIENCY INVERTER DUTY MOTORS, NEMA MG1.
5. PROVIDE 2" THICK DOUBLE WALL GALVANIZED STEEL INSULATED CABINET, ROOF AND WALLS, MINIMUM R-13. OUTSIDE OF CABINET TO BE PAINTED
6. PROVIDE ONE SUPPLY AND ONE RETURN VARIABLE FREQUENCY DRIVE WITH INTEGRAL HAND-OFF-AUTO SELECTION SWITCH AND LOCKABLE DISCONNECT, RECESSED IN UNIT CABINET, FURNISHED BY UNIT MANUFACTURER. SINGLE DRIVE TO CONTROL EACH SET OF SUPPLY AND RETURN FANS. PROVIDE WIRING AND CONDUIT BETWEEN FANS AND DRIVE. UNIT TO BE PREWIRED TO PROVIDE SINGLE POINT ELECTRICAL CONNECTION TO VFD.
7. PROVIDE 1" MERV 8 PRE-FILTER & 2" MERV 13 POST-FILTER
8. PROVIDE SIDE LOADING AND REMOVABLE FILTERS
9. PROVIDE STAINLESS STEEL HEAT EXCHANGER AND DRIP PAN
10. PROVIDE SINGLE POINT POWER
11. PROVIDE FIELD INSTALLED SMOKE DETECTORS COMPATIBLE WITH EXISTING FIRE ALARM SYSTEM.
12. PROVIDE CONVENIENCE OUTLET.
13. PROVIDE 18" HIGH, INSULATED ROOF CURB. CONTRACTOR SHALL SECURE UNIT TO CURB AND CURB TO BUILDING STRUCTURE.

ROOF EXHAUST FAN SCHEDULE (ALTERNATE 1)

MARK	LOCATION	SERVICE	TYPE	CFM	SP IN W.G.	RPM	ELECTRICAL DATA: HP	VOLTS	PHASE	AMPS	TYPICAL UNIT MFG & MODEL NO.	REMARKS:
REF-2	ROOF	LOCKER ROOMS 117 & 118	DOWNBLAST	1430	0.2	889	.25	115	1	60	GREENHECK G-140-VG	1,2,3
REF-3	ROOF	LAV. 119 & DRY 121	DOWNBLAST	500	0.21	833	0.25	115	1	60	GREENHECK G-100-VG	1,2,3
REF-4	ROOF	SHOWER 122	DOWNBLAST	360	0.18	702	0.25	115	1	60	GREENHECK G-100-VG	1,2,3
REF-5	ROOF	TOILET 120 &126	DOWNBLAST	600	0.47	1503	0.17	115	1	60	GREENHECK G-095-VG	1,2,3
REF-6	ROOF	SHOWER 123	DOWNBLAST	270	0.22	915	0.17	115	1	60	GREENHECK G-0950VG	1,2,3
REF-7	ROOF	LAV. 123	DOWNBLAST	360	0.18	702	0.25	115	1	60	GREENHECK G-100-VG	1,2,3
REF-8	ROOF	SHOWER 135	DOWNBLAST	270	0.22	915	0.17	115	1	60	GREENHECK G-0950VG	1,2,3
REF-9	ROOF	TRAINING ROOM 129	DOWNBLAST	500	0.21	833	0.25	115	1	60	GREENHECK G-100-VG	1,2,3
REF-10	ROOF	TOILET 133 &136	DOWNBLAST	600	0.47	1503	0.17	115	1	60	GREENHECK G-095-VG	1,2,3
REF-11	ROOF	SHOWER 138	DOWNBLAST	360	0.18	702	0.25	115	1	60	GREENHECK G-100-VG	1,2,3
REF-12	ROOF	DRY 137 & LAV 139	DOWNBLAST	500	0.21	833	0.25	115	1	60	GREENHECK G-100-VG	1,2,3
REF-13	ROOF	LOCKER ROOMS 140 &141	DOWNBLAST	1430	0.2	889	.25	115	1	60	GREENHECK G-140-VG	1,2,3
REF-15	ROOF	LAV. 132	DOWNBLAST	360	0.18	702	0.25	115	1	60	GREENHECK G-100-VG	1,2,3

REMARKS:

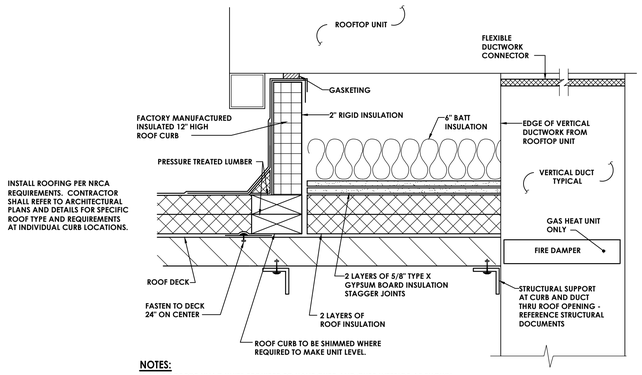
1. FACTORY MOUNTED AND WIRED DISCONNECT.
2. BACKDRAFT DAMPER.
3. PROVIDE 18" HIGH, INSULATED ROOF CURB. CONTRACTOR SHALL SECURE UNIT TO CURB AND CURB TO BUILDING STRUCTURE.



MAXIMUM FASTENER SPACING				
VELOCITY	DIMENSIONS A	B	C	E
0-2500 FPM	3"	12"	4"	18"
2501-6000 FPM	3"	6"	4"	16"

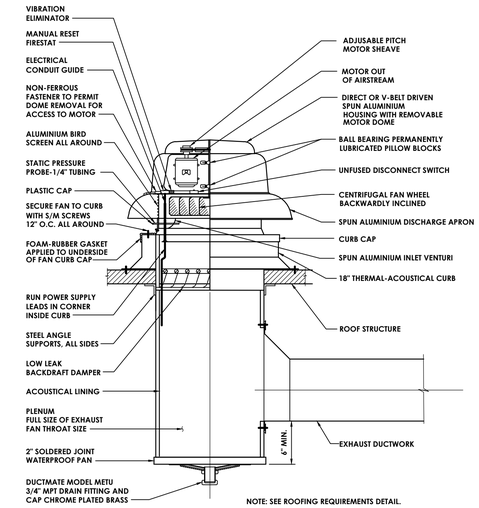
NOTE:
LINER ADHERED TO THE DUCT WITH 100% AREA COVERAGE OF ADHESIVE

1 H900 **DUCT LINER INSTALLATION DETAIL**
NOT TO SCALE



NOTES:
1) ALL ROOF TOP HVAC UNITS REQUIRED TO HAVE CURB AND CURB INTERIOR AS SHOWN.

2 H900 **ROOFTOP UNIT - ROOF CURB DETAIL**
NOT TO SCALE



NOTE: SEE ROOFING REQUIREMENTS DETAIL.

3 H900 **EXHAUST FAN DETAIL**
NOT TO SCALE

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DOMINICAN UNIVERSITY NEW YORK

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Project Status	
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Drawing Title
MECHANICAL DETAILS AND SCHEDULES

Drawing Number
DU
H900

Sheet size: 24x36
Drawing Name: S:\Projects\Dominican Coll\Gym Roof Study\D Design\06 CAD\ACAD\MECH\HPWP00.dwg | Date last accessed: 8/18/2022 10:34 AM | Date last plotted: 8/18/2022 11:36 AM | Plotted By: Brendon Mazza

WIRING LEGEND:

- S. SWITCH
  - (NONE) SINGLE POLE TOGGLE SWITCH
  - 2 TWO POLE TOGGLE SWITCH
  - 3 THREE WAY TOGGLE SWITCH
  - 4 FOUR WAY TOGGLE SWITCH
  - WP SINGLE POLE WEATHER PROOF SWITCH
  - K SINGLE POLE KEYED SWITCH
  - K2 TWO POLE KEYED SWITCH
  - K3 THREE WAY KEYED SWITCH
  - K4 FOUR WAY KEYED SWITCH
  - P SINGLE POLE SWITCH WITH PILOT LIGHT
  - TM SINGLE POLE SWITCH WITH ONE HOUR TIMER
  - T THERMAL SWITCH
  - TP THERMAL SWITCH WITH PILOT LIGHT
  - M MOMENTARY CONTACT SWITCH
- S_{III} ROMAN NUMERAL DESIGNATES NUMBER OF SWITCHES
- S_{D} LOWER CASE LETTER DESIGNATES SWITCH LEG
- SINGLE RECEPTACLE
- PLUG MOLD
- DUPLEX RECEPTACLE
- QUADRAPLEX RECEPTACLE
- SPECIAL RECEPTACLE
  - GFI GROUND FAULT CIRCUIT INTERRUPTER
  - WP WEATHER PROOF IN-USE COVER
  - SS SURGE SUPPRESSION
  - C COUNTER HEIGHT
  - TR TAMPER RESISTANT, UL LISTED
  - IG ISOLATED GROUND
  - RT RAIN TITE
  - E EMERGENCY
  - X TYPE X (SEE RECEPTACLE SCHEDULE)
- PP POWER POLE
- RECESSED FLOOR MOUNTED DUPLEX RECEPTACLE
- SURFACE MOUNTED FLOOR RECEPTACLE
- CEILING MOUNTED DUPLEX RECEPTACLE
- C CONDUIT
- W EXPOSED LOW VOLTAGE WIRING
- HORIZONTAL NON-METALLIC WIREWAY WITH DATA JACK OUTLETS AND ISOLATED GROUND TYPE DUPLEX RECEPTACLES
- VERTICAL NON-METALLIC WIREWAY WITH DATA JACK OUTLETS AND ISOLATED GROUND TYPE DUPLEX RECEPTACLES
- WM WIRE MOLD
- JUNCTION BOX
  - F FIRE SYSTEM
  - S SECURITY SYSTEM
- DISCONNECT SWITCH
- DS_{WP} DISCONNECT SWITCH - WEATHER PROOF (NEMA 3R)
- FS FUSED DISCONNECT SWITCH
- CMS_{K} COMBINATION FUSED DISCONNECT/ MAGNETIC STARTER SWITCH
  - HOA HAND/OFF/AUTO
  - SS START/STOP
- CMS_{M} MANUAL STARTER
- VDS COMBINATION VARIABLE SPEED DRIVE AND DISCONNECT
- VSD VARIABLE SPEED DRIVE
- ST/SP PUSHBUTTON - START, STOP
- ST/SP/PL PUSHBUTTON - START, STOP, WITH PILOT LIGHT
- UP/DN/SP PUSHBUTTON - UP, DOWN, STOP
- EF-1 MOTOR WITH DESIGNATOR
- DP DOOR POWER OPERATOR
- TC TIME CLOCK
- WH WATER HEATER
- HD HAND DRYER, HARD WIRED
- T THERMOSTAT
- HVP1-6 BRANCH CIRCUIT HOME RUN WITH PANEL NAME AND CIRCUIT NUMBER, QUANTITY OF ARROWHEADS DENOTES QUANTITY OF BRANCH CIRCUITS
  - GFI BKR. GFI TYPE BREAKER
  - A.F. BKR. ARC FAULT BREAKER
- BRANCH CIRCUIT WIRING, PROVIDE QUANTITIES OF CONDUCTORS REQUIRED FOR CIRCUITING AND SWITCHING AS INDICATED
- POWER LEG ONLY (NO SWITCH LEG BETWEEN ROOMS)
- HARDWIRE CONNECTION
- CONDUIT RISER UP
- CONDUIT RISER DOWN
- T TRANSFORMER
- T_{K} TYPE "K" TRANSFORMER
- MUSHROOM HEAD PUSH BUTTON (EMERGENCY STOP)
- EMERGENCY BREAK GLASS STATION
- GROUNDING ROD

SINGLE LINE DIAGRAM LEGEND:

- EARTH GROUND
- CHASSIS GROUND
- 45 KVA 480-208/120V K-13 TRANSFORMER - KVA, PRIMARY AND SECONDARY VOLTAGE INDICATED, CONNECTIONS, K-RATING, AND SHIELD SPECIFIED
- CURRENT TRANSFORMER
- POTENTIAL TRANSFORMER
- FUSE
- DISCONNECT/LOADBREAK SWITCH
- CIRCUIT BREAKER
- CIRCUIT BREAKER DRAWOUT MOUNTED (LOW VOLTAGE)
- AUTOMATIC TRANSFER SWITCH (NORMAL POSITION SHOWN)
- M METER
- ENCLOSED CIRCUIT BREAKER
- LIGHTNING ARRESTER
- FUSED DISCONNECT SWITCH
- PANEL 208-120V 225A PANELBOARD- RATINGS AS SPECIFIED IN SINGLE LINE DIAGRAM AND ON PANELBOARD SCHEDULE

COMMUNICATIONS LEGEND:

- TELEPHONE (1) CAT3 - TELEPHONE JACK & CABLE
  - (NONE) STANDARD MODULAR JACK FOR TELEPHONE
  - W WALL MOUNTED TELEPHONE MODULAR JACK
  - P PUBLIC TELEPHONE MODULAR JACK
  - C COUNTER HEIGHT MODULAR JACK
- TELEPHONE FLOOR OUTLET (1) CAT3 - TELEPHONE JACK & CABLE
- DATA OUTLET WITH FLUSH BOX AND FACEPLATE (1) CAT5e - DATA JACK & CABLE
- COMPUTER FLOOR OUTLET (1) CAT5e - DATA JACK & CABLE
- COMBINATION TELEPHONE CABLE AND DATA OUTLETS IN DOUBLE GANG FLUSH MOUNTED BOX WITH FACEPLATE
- WT WIRELESS TRANSMITTER (PROVIDED BY OWNER) CONTRACTOR TO PROVIDE (2) CAT5e DATA JACKS & CABLING
- T/D BACK BOX FOR OWNER PROVIDED TEL/COM WIRING & DEVICES
- DATA RACK
- COAX CABLE (TYPE F CONNECTOR)
- CEILING MOUNT LCD PROJECTOR
- SPEAKER (PUBLIC ADDRESS)
  - (NONE) CEILING MOUNTED
  - W WALL MOUNTED
- SPEAKER (LOCAL SOUND SYSTEM)
- SPEAKER HORN
- MICROPHONE JACK
- SPEAKER JACK
- VOLUME CONTROL
- CLOCK
- DOUBLE FACE CLOCK
- CS COMBINATION CLOCK AND SPEAKER
- IC INTERCOM STATION
- PA/ MIC REMOTE PRE-AMPLIFIER AND PAGING MICROPHONE
- CP CONSOLE JACK
- HL HOUSE LIGHT CONTROL STATION
- WB WALL BOX AS SPECIFIED
- FB FLOOR BOX

NOTE:

SYMBOLS SHOWN ON THIS ELECTRICAL SYMBOLS LIST ARE FOR REFERENCE PURPOSES ONLY. ALL OF THESE SYMBOLS MAY NOT BE USED FOR THIS PROJECT.

FIRE/LIFE SAFETY LEGEND:

- FIRE ALARM PULL STATION
- FIRE ALARM BELL
- FIRE ALARM HORN
- FIRE ALARM HORN AND STROBE COMBINATION
- WP FIRE ALARM HORN AND STROBE COMBINATION, WEATHER PROOF
- FIRE ALARM SPEAKER
- C FIRE ALARM SPEAKER - CEILING MOUNTED
- FIRE ALARM SPEAKER AND STROBE COMBINATION
- FIRE ALARM STROBE
- FIRE ALARM STROBE - CEILING MOUNTED
- SMOKE DETECTOR
- WG SMOKE DETECTOR WITH GUARD
- CO CARBON MONOXIDE DETECTOR
- CH4 NATURAL GAS SENSOR
- HEAT DETECTOR
- COMBINATION SMOKE/HEAT DETECTOR
- F HEAT DETECTOR - 190° FIXED TEMPERATURE
- EXP HEAT DETECTOR - EXPLOSION PROOF
- BT BEAM SMOKE DETECTOR TRANSMITTER
- BR BEAM SMOKE DETECTOR RECEIVER
- A DUCT DETECTOR
  - SA INDICATES INSTALLATION IN SUPPLY AIR
  - RA INDICATES INSTALLATION IN RETURN AIR
- RTS REMOTE TEST STATION FOR DUCT DETECTOR
- R FIRE ALARM SHUT DOWN RELAY
- FH FIRE DOOR HOLD OPEN
- TS TAMPER SWITCH
- FS FLOW SWITCH
- FSS FIRE SUPRESSION ANSUL SYSTEM CONNECTION
- XR SMOKE DAMPER RELAY CONNECTION
  - SD/FD SMOKE DAMPER AND FIRE DAMPER
  - SD SMOKE DAMPER
- CM CONTROL MODULE, ADDRESSABLE
- AREA OF RESCUE CALL STATION
- AMS AREA OF RESCUE MASTER TELEPHONE STATION

SECURITY LEGEND:

- KP SECURITY KEY PAD
- VIDEO CAMERA
- CCM CCTV VIDEO MONITOR
- PIR PASSIVE INFRARED MOTION DETECTOR
- PR PROXIMITY CARD READER
- CS CALL SWITCH
- DC DOOR CONTACT
- WC WINDOW CONTACT
- ES ELECTRIC STRIKE DOOR RELEASE
- MD MAGNETIC DOOR RELEASE

NURSE CALL LEGEND:

- CB NURSE CALL BUTTON
- P NURSE CALL PATIENT BED STATION
- B NURSE CALL CODE BUTTON
- SA NURSE CALL STAFF ASSIST STATION
- S NURSE CALL STAFF STATION
- SD NURSE CALL DUTY/STAFF STATION
- D NURSE CALL DUTY STATION
- NURSE CALL LIGHT
- NURSE CALL CODE LIGHT
- NURSE CALL ZONE LIGHT
- M NURSE CALL MASTER STATION
- E NURSE CALL EMERGENCY PULL STATION
- IR NURSE CALL INFRARED SENSOR

LIGHT FIXTURE LEGEND:

- XX LIGHTING FIXTURE (SEE LIGHTING FIXTURE SCHEDULE FOR LETTER DESIGNATION AND DESCRIPTION OF FIXTURES)
- EMERGENCY AND/OR NIGHT LIGHT LIGHTING FIXTURE
- EXIT LIGHTING FIXTURE UNIVERSAL MOUNT, SINGLE/DOUBLE FACE (WHERE USED, ARROW INDICATES CHEVRON DIRECTION)
- BATTERY POWERED EMERGENCY LIGHT
- EMERGENCY LIGHT REMOTE HEAD
- TRACK LIGHTING
- POLE MOUNTED LIGHTING (QUANTITY AND ORIENTATION OF HEADS AS SHOWN)
- OSC OCCUPANCY SENSOR - CEILING MOUNTED
- OSW OCCUPANCY SENSOR - WALL MOUNTED
- LC LIGHTING CONTACTOR
- PC PHOTOCELL
- S. SWITCH
  - LV LOW VOLTAGE 1-4 BUTTON STATION (CONNECT TO LIGHTING CONTROL STATION)
  - O OCCUPANCY SENSOR SWITCH
  - D DIMMER (INCANDESCENT)
  - D3 THREE WAY DIMMER (INCANDESCENT)
  - DF DIMMER (FLUORESCENT)

PANEL LEGEND:

- EXISTING ELECTRICAL PANEL
- XXX NEW ELECTRICAL PANEL
  - MDP MAIN DISTRIBUTION PANEL
  - LVP LOW VOLTAGE PANEL
  - HVP HIGH VOLTAGE PANEL
  - LP LIGHTING CONTROL PANEL
  - IG ISOLATED GROUND PANEL
  - MSB MAIN SWITCH BOARD
  - MCC MOTOR CONTROL CENTER
  - TVSS TRANSIENT VOLTAGE SURGE SUPPRESSION
- ATS AUTOMATIC TRANSFER SWITCH
- XXX ELECTRICAL SYSTEMS PANEL
  - SACP SECURITY ALARM CONTROL PANEL
  - FACP FIRE ALARM CONTROL PANEL
  - PA PUBLIC ADDRESS CONTROL PANEL
  - FAAP FIRE ALARM ANNUNCIATOR PANEL

ELECTRICAL PANELBOARD LABELING PLACARD

LINE 1 - PANELBOARD NAME: PP1 (EXAMPLE)
LINE 2 - VOLTAGE AND PHASE:480/277V-3PH-4W (EXAMPLE)
LINE 3 - WHERE PANELBOARD IS FED FROM: FF MSB BREAKER #14 (EXAMPLE)

GENERAL ELECTRICAL NOTES:

1) HATCHED AREAS ////// DESIGNATE EXISTING EQUIPMENT TO BE REMOVED, UNLESS OTHERWISE NOTED.
2) ALL WORK TO BE DONE IN ACCORDANCE WITH THE LATEST ADOPTED EDITION OF THE NATIONAL ELECTRIC CODE (NFPA 70).
3) CONTRACTOR SHALL FIELD VERIFY ALL CONDITIONS AND COORDINATE WITH EXISTING EQUIPMENT PRIOR TO BIDDING.

BUILDING:

4) INSTALLATION HEIGHT TO CENTER OF EQUIPMENT ABOVE FINISHED FLOOR UNLESS OTHERWISE NOTED TO BE:
   RECEPTACLE = 18"
   SWITCH = 44"
   MODULAR JACK FOR WALL MOUNTED TELEPHONE = 52"
   MODULAR TELEPHONE JACK = 18"
   AUDIO/VISUAL FIRE ALARM INDICATORS = 88"
   FIRE ALARM PULL STATIONS = 48"
   TELEVISION OUTLET = 7'-0"
   COMPUTER OUTLET = 18"
   CALL SWITCH = 44"
   REMOTE TEST STATION FOR DUCT DETECTOR = 52"
   C = ABOVE COUNTER BACKSPLASH, COORDINATE WITH ARCHITECTURAL ELEVATIONS AND MILLWORK.
5) INSTALL DATA JACKS FOR CEILING MOUNTED WIRELESS TRANSMITTERS ABOVE CEILING IN ALL AREAS WHERE THERE IS AN ACCESSIBLE CEILING. PROVIDE FLUSH MOUNTED JACKS IN ALL HARD CEILINGS.
6) ALL CONDUIT AND WIRING TO BE CONCEALED IN WALLS, FLOOR, OR ABOVE CEILINGS UNLESS OTHERWISE NOTED OR APPROVED BY THE ARCHITECT/ENGINEER. ALL DEVICE OUTLET BOXES SHALL BE RECESSED UNLESS OTHERWISE NOTED OR APPROVED BY THE ARCHITECT/ENGINEER. WHERE APPROVED OR NOTED, SURFACE METAL RACEWAY AND DEVICE BOXES SHALL BE USED IN-LIEU OF CONDUIT AND CONCEALED BOXES AT NO EXTRA COST TO THE OWNER.
7) ALL CONDUIT ROUTES SHOWN ARE APPROXIMATE ONLY. CONTRACTOR SHALL FIELD VERIFY FINAL ROUTE.
8) CONDUIT RUNS SHOWN ARE SCHEMATICAL AND DO NOT INDICATE THE NECESSARY FITTINGS AND JUNCTION BOXES THAT ARE INCLUDED IN THE SCOPE OF THE WORK.

GROUNDING:

9) ALL METAL RACEWAYS, INCLUDING CONDUIT, WIRE TROUGHS, WIREMOLD, ETC., SHALL BE GROUNDED. ALL CONNECTIONS IN METAL RACEWAYS SHALL BE COMPLETED IN SUCH A MANNER AS TO MAINTAIN A CONTINUOUS PATH TO GROUND THROUGHOUT THE ENTIRE LENGTH OF THE RACEWAY.

WIRING:

10) UNLESS NOTED OTHERWISE ON THE DRAWINGS OR ON THE EQUIPMENT WIRING SCHEDULE, EACH BRANCH CIRCUIT SHALL BE THREE (3) #12 AWG THHN/THWN (1 HOT, 1 NEUTRAL & 1 EQUIPMENT GROUND) IN 3/4" EMT CONDUIT. PROTECT EACH CIRCUIT WITH A 20 AMPERE, 1-POLE OVERCURRENT DEVICE UNLESS OTHERWISE NOTED. PROVIDE #10 AWG FOR 120V BRANCH CIRCUITS LONGER THAN 100 FEET. COMBINED NEUTRALS ARE NOT PERMITTED.

CPL | Architecture Engineering Planning
2875 Route 35, Suite 75-1
Katonah, NY 10536
CPLteam.com

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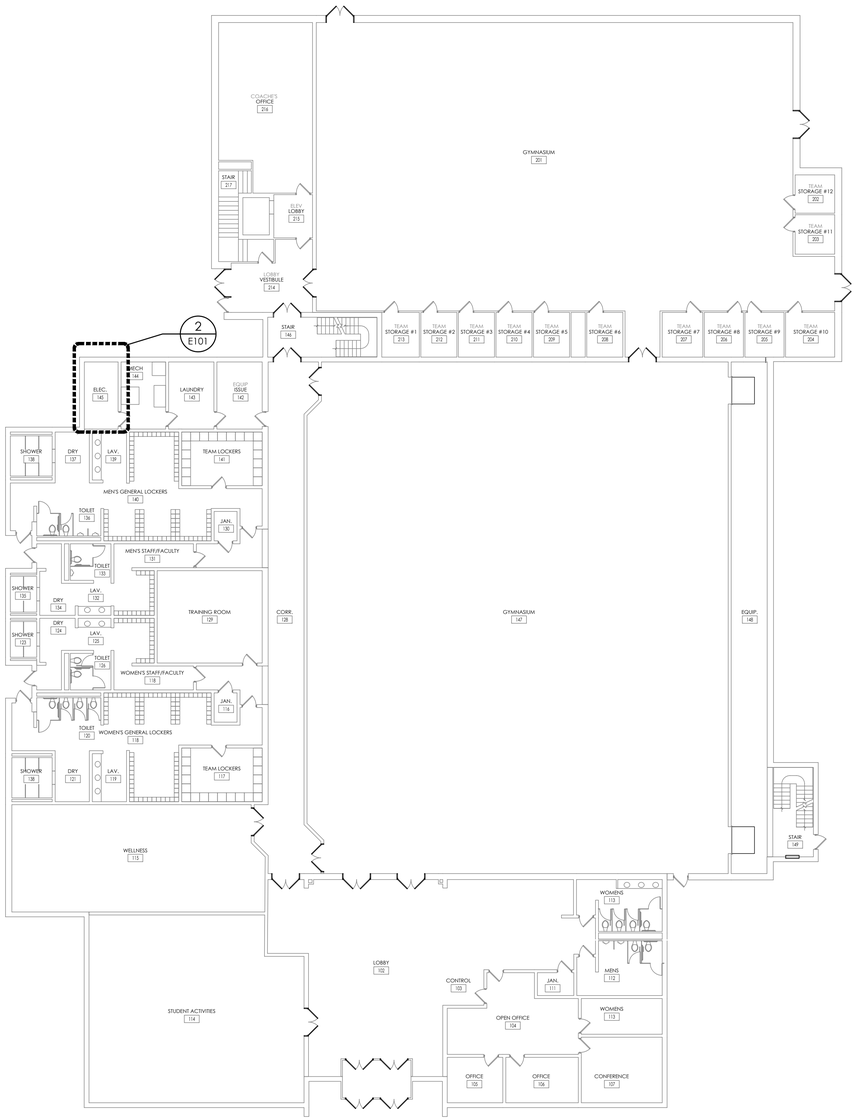
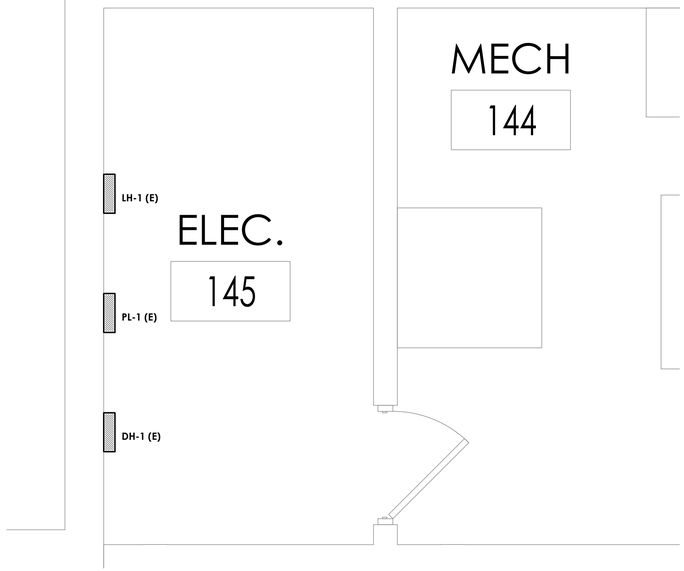
Drawing Title
ELECTRICAL NOTES AND SYMBOLS

Drawing Number: DU E000
Revision Number:



1 E101 **FIRST FLOOR OVERALL PLAN**
SCALE: 1/16" = 1'-0"



2 E101 **ELECTRICAL ROOM PANEL LOCATION**
SCALE: 1/2" = 1'-0"

GENERAL DEMOLITION NOTES:

A. ALL ITEMS SHOWN ARE TO BE REMOVED UNLESS LABELED AS (E) EXISTING TO REMAIN. ANY DEVICE, AS WELL AS ITS ASSOCIATED CIRCUITING, AND CONDUIT, LABELED "(E)" SHALL REMAIN, UNLESS OTHERWISE NOTED.

B. INFORMATION ON DRAWINGS WAS OBTAINED THROUGH FIELD OBSERVATION AND AS-BUILT DOCUMENTATION. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ANY DEVICES AND CABLING THAT MAY NOT BE SHOWN ON DRAWING AT NO ADDITIONAL COST TO OWNER.

C. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE AT NO ADDITIONAL COST.

D. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC IN AREAS OF NEW RENOVATIONS TO ACCOMMODATE NEW CONSTRUCTION. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK AS NOTED IN THE FOLLOWING NOTES.

E. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED. THE CONTRACTOR SHALL ASSUME WITHIN THE BASE BID A NOMINAL AMOUNT OF BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING WITHIN WALLS OR OPENINGS TO BE REMOVED OR RELOCATED AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.

F. COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AS APPLICABLE. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES FOR COORDINATION.

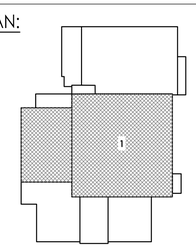
G. ALL ITEMS (DEVICES, FIXTURES, ETC.) SHOWN ARE TO BE REMOVED UNLESS LABELED AS EXISTING TO REMAIN - (E). THESE ITEMS AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE CONTROL PANEL/PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

H. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS AND/OR EQUIPMENT BEING REMOVED AS PART OF THE PROJECT. THE OWNER SHALL HAVE THE RIGHT OF RETAINING ANY ITEMS BEING REMOVED.

I. CONTRACTOR SHALL PROVIDE NEW COVERPLATES ON ALL UNUSED FLUSH MOUNT DEVICE BOXES UPON COMPLETION OF PROJECT.

J. FIREPROOFING AND/OR FIRE STOP MATERIALS REMOVED FROM FIRE RATED WALLS AND CEILINGS AS A RESULT OF DEMOLITION SHALL BE RE-INSTALLED USING AN APPROVED METHOD AS DESCRIBED IN ASSOCIATED PROJECT SPECIFICATIONS.

KEY PLAN:



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2875 Route 35, Suite 75-1
Katonah, NY 10536
CPLteam.com

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SHEET INFORMATION

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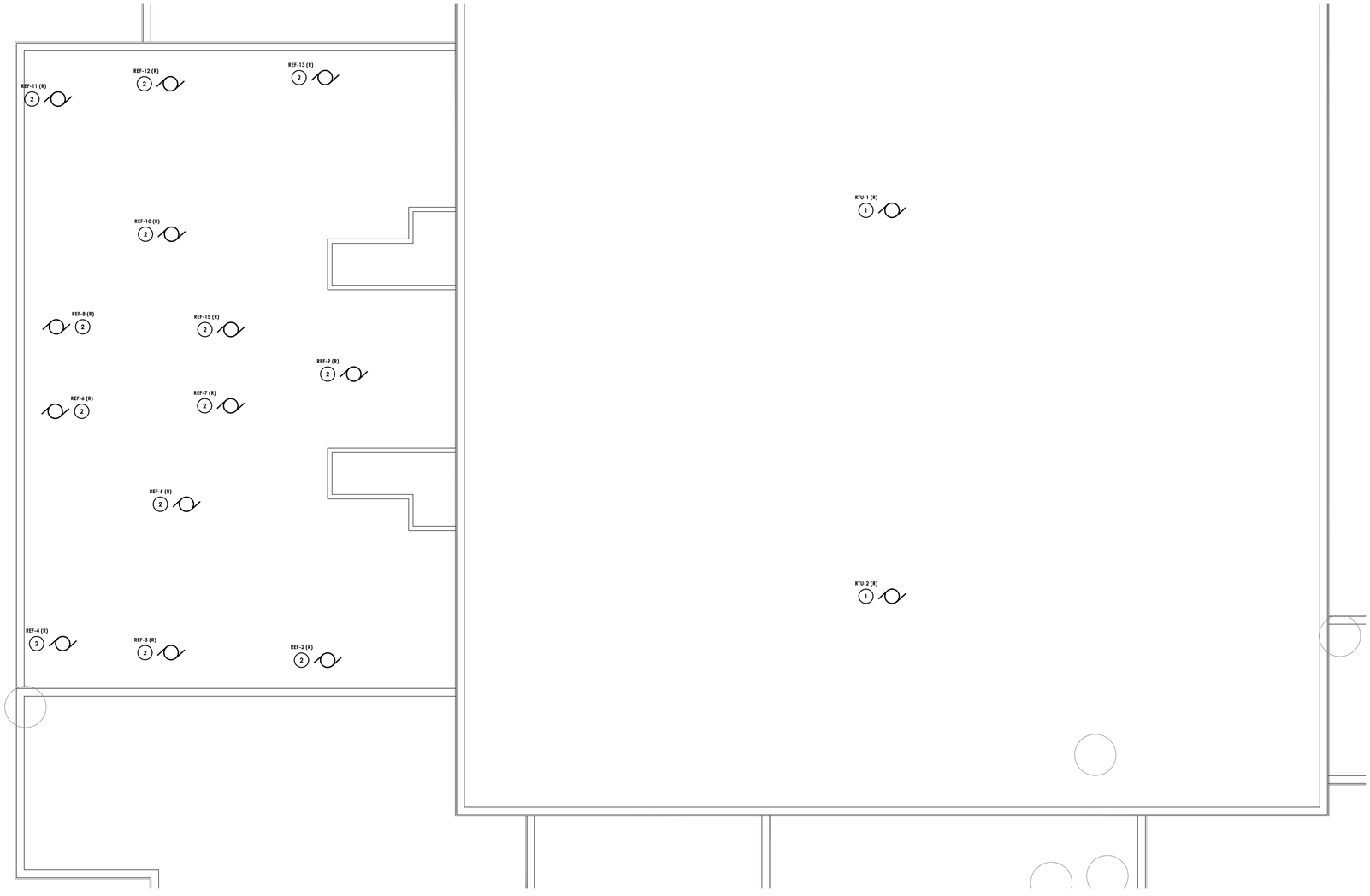
Drawing Title
FIRST FLOOR ELECTRICAL DEMOLITION PLAN

Drawing Number	Revision Number
DU E101	



1 / E102 ROOF ELECTRICAL DEMOLITION PLAN

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

GENERAL DEMOLITION NOTES:

A. ALL ITEMS SHOWN ARE TO BE REMOVED UNLESS LABELED AS (E) EXISTING TO REMAIN. ANY DEVICE, AS WELL AS ITS ASSOCIATED CIRCUITING, AND CONDUIT, LABELED "(E)" SHALL REMAIN, UNLESS OTHERWISE NOTED.

B. INFORMATION ON DRAWINGS WAS OBTAINED THROUGH FIELD OBSERVATION AND AS-BUILT DOCUMENTATION. THE CONTRACTOR IS RESPONSIBLE FOR THE REMOVAL AND REPLACEMENT OF ANY DEVICES AND CABLING THAT MAY NOT BE SHOWN ON DRAWING AT NO ADDITIONAL COST TO OWNER.

C. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF ELECTRICAL WORK REQUIRED TO COMPLETE THE PROJECT. EXISTING CONDITIONS ARE TAKEN FROM FIELD OBSERVATION AND EXISTING BUILDING DOCUMENTS. OTHER ELECTRICAL ITEMS MAY EXIST FOR WHICH THE CONTRACTOR IS RESPONSIBLE AT NO ADDITIONAL COST.

D. THE CONTRACTOR SHALL REMOVE THE EXISTING ELECTRIC IN AREAS OF NEW RENOVATIONS TO ACCOMMODATE NEW CONSTRUCTION. REROUTING OF EXISTING MAY BE REQUIRED AT NEW OPENINGS IN EXISTING CONSTRUCTION OR INTERFERENCE WITH OTHER NEW WORK AS NOTED IN THE FOLLOWING NOTES.

E. DRAWINGS INDICATE SPECIFIC ITEMS TO BE REMOVED AND/OR RELOCATED IN ORDER TO INDICATE GENERAL SCOPE. ADDITIONAL ITEMS NOT INDICATED, BUT NECESSARY FOR PROJECT RENOVATIONS, SHALL BE REMOVED, RELOCATED AND/OR REROUTED. THE CONTRACTOR SHALL ASSUME WITHIN THE BASE BID A NOMINAL AMOUNT OF BRANCH CIRCUITS, FIXTURES, DEVICES, AND SYSTEMS WIRING WITHIN WALLS OR OPENINGS TO BE REMOVED OR RELOCATED AS REQUIRED TO ACCOMMODATE THE NEW CONSTRUCTION.

F. COORDINATE DEMOLITION OF EQUIPMENT, DEVICES, ETC. WITH OTHER DISCIPLINES AS APPLICABLE. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES FOR COORDINATION.

G. ALL ITEMS (DEVICES, FIXTURES, ETC.) SHOWN ARE TO BE REMOVED UNLESS LABELED AS EXISTING TO REMAIN - (E). THESE ITEMS AND THEIR RELATED WIRING/CONDUIT SHALL BE REMOVED BACK TO THE SOURCE CONTROL PANEL/PANELBOARD UNLESS OTHERWISE NOTED. ON CIRCUITS WHERE OTHER DEVICES, FIXTURES, ETC. ARE FOUND THAT MUST REMAIN, MAINTAIN CIRCUIT CONTINUITY BY PROVIDING ADDITIONAL WIRING, TO FEED THROUGH TO THESE REMAINING ITEMS. RELOCATE ANY CIRCUITS THAT REMAIN, TO AVOID CONFLICT WITH NEW CONSTRUCTION AS REQUIRED. PROPERLY TERMINATE ALL WIRING.

H. CONTRACTOR SHALL PROPERLY DISPOSE OF ALL ITEMS AND/OR EQUIPMENT BEING REMOVED AS PART OF THE PROJECT. THE OWNER SHALL HAVE THE RIGHT OF RETAINING ANY ITEMS BEING REMOVED.

I. CONTRACTOR SHALL PROVIDE NEW COVERPLATES ON ALL UNUSED FLUSH MOUNT DEVICE BOXES UPON COMPLETION OF PROJECT.

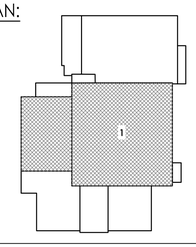
J. FIREPROOFING AND/OR FIRE STOP MATERIALS REMOVED FROM FIRE RATED WALLS AND CEILINGS AS A RESULT OF DEMOLITION SHALL BE RE-INSTALLED USING AN APPROVED METHOD AS DESCRIBED IN ASSOCIATED PROJECT SPECIFICATIONS.

KEY NOTES:

1. DISCONNECT AND REMOVE EXISTING ROOF TOP UNIT IN ITS ENTIRETY. REMOVE ALL CONDUIT AND WIRING BACK TO SOURCE PANEL.

2. ALT 1: DISCONNECT AND REMOVE EXISTING EXHAUST FAN IN ITS ENTIRETY. PULL ALL CONDUIT AND WIRING TO A POINT OUTSIDE THE AREA OF DEMOLITION AND TAG CIRCUITRY FOR RE-USE.

KEY PLAN:



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Katonah, NY 10536
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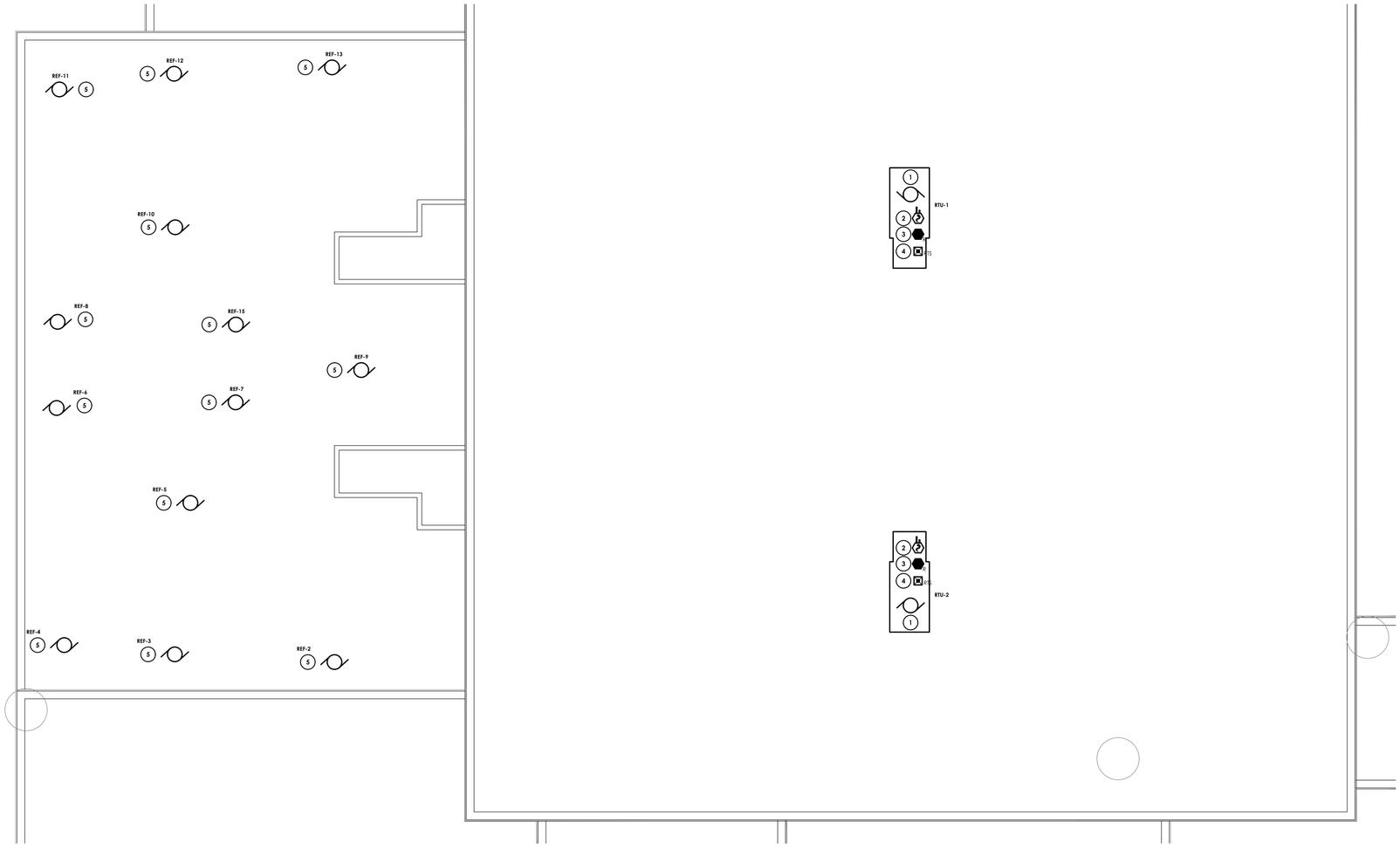


ROOF ELECTRICAL NEW WORK PLAN

1 / E202

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

GENERAL NOTES:

A. INFORMATION ON DRAWING WAS OBTAINED THROUGH FIELD OBSERVATIONS AND AS-BUILT DOCUMENTATION.

B. DRAWINGS ARE GRAPHICAL REPRESENTATIONS OF APPROXIMATE EQUIPMENT AND DEVICE LOCATIONS. CONTRACTOR SHALL VISIT THE SITE TO DETERMINE THE EXACT EXTENT OF FIRE ALARM WORK REQUIRED TO COMPLETE THE PROJECT.

C. NEW FIRE ALARM INITIATION AND/OR NOTIFICATION DEVICES SHOWN SHALL BE COMPATIBLE WITH AND CONNECTED TO EXISTING HONEYWELL MS-9600UDLS FIRE ALARM CONTROL PANEL AND SYSTEM SERVING BUILDING . CONTRACTOR SHALL BE RESPONSIBLE FOR ALL TERMINATIONS, PROGRAMING, TESTING, ETC. FOR A COMPLETE OPERATIONAL SYSTEM.

D. NEW DUCT DETECTOR REMOTE STATIONS SHOWN INSTALLED IN FINISHED SPACES SHALL BE FLUSH MOUNTED IN WALL WHERE SHOWN 12" BELOW FINISHED CEILING LEVEL. STATIONS SHOWN IN UNFINISHED SPACES SUCH AS MECHANICAL /ELECTRICAL ROOMS, JANITOR CLOSETS, ETC SHALL BE INSTALLED AT 48" AFF.

E. DISCONNECT SWITCHES FOR MECHANICAL EQUIPMENT TO BE FURNISHED AND INSTALLED BY THE MECHANICAL CONTRACTOR AND WIRED BY THE ELECTRICAL CONTRACTOR.

F. (E) - EXISTING TO REMAIN. ANY DEVICE EQUIPMENT, ETC. LABELED AS "(E)" IS EXISTING TO REMAIN UNLESS OTHERWISE NOTED.

G. (RL) - RELOCATED.ANY DEVICE EQUIPMENT, ETC. LABELED AS "(RL)" IS RELOCATED EXISTING. DEVICE/EQUIPMENT SHALL BE RE-INSTALLED AT LOCATION INDICATED. REWORK/EXTEND WIRING AND CONDUIT TO NEW LOCATION AS REQUIRED.

H. FINAL TESTING OF FIRE ALARM SYSTEM SHALL COMPLY WITH NFPA72 REQUIREMENTS. ANY ALTERED CIRCUIT(S) SHALL HAVE ALL ASSOCIATED LOOP DEVICES TESTED IN THEIR ENTIRETY AND 10% OF NEIGHBORING ZONE/LOOP DEVICES ARE ALSO TO BE TESTED.

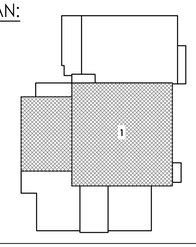
I. ALL NEW FAN SHUTDOWN RELAYS SHALL BE PROGRAMMED TO DE-ENERGIZE ASSOCIATED HVAC UNIT FAN UPON ACTIVATION OF FIRE ALARM SYSTEM.

J. ALL SYSTEMS CABLING SHALL BE RUN IN FREE-ARE AND SUPPORTED ABOVE CEILINGS VIA J-HOOKS. J-HOOKS NOT TO EXCEED 5'-0" SPACING.

KEY NOTES:

1. PROVIDE POWER TO NEW ROOF TOP UNIT. PROVIDE (3) #2, (1) #8 GND IN 1-1/2" CONDUIT TO EXISTING PANEL 'PL-1'. PROVIDE NEW 90A/3P CIRCUIT BREAKER IN EXISTING PANEL. NEW BREAKER SHALL MATCH AIC RATING OF EXISTING PANEL.
2. PROVIDE SMOKE DUCT DETECTOR FOR RETURN AND SUPPLY LINE OF RTU'S. PROVIDE FAN SHUTDOWN RELAYS SO THAT UNIT WILL SHUTDOWN ALL FANS ASSOCIATED WITH UNIT ON ACTIVATION OF THE BUILDING FIRE ALARM.
3. PROVIDE FAN SHUTDOWN RELAYS AT HVAC EQUIPMENT CONTROLS. INTERCONNECT RELAYS TO BUILDING FIRE ALARM SYSTEM TO SHUTDOWN FAN MOTORS WHEN THE FIRE ALARM IS ACTIVATED.
4. PROVIDED ASSOCIATED REMOTE TEST SWITCHES IN CEILING SPACE BELOW. REFER TO DRAWING DC-E101.
5. ALT 1: RECONNECT NEW EXHAUST FAN TO EXISTING CIRCUITRY TAGGED FOR RE-USE. SPLICE AND REWORK/EXTEND WIRING AS NECESSARY.

KEY PLAN:



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PROFESSIONAL STAMPS

NEW YORK STATE EDUCATION STATEMENT

IT IS A VIOLATION OF THE NEW YORK STATE EDUCATION LAW AND THE COMMISSIONER'S REGULATIONS FOR ANY PERSON, UNLESS ACTING UNDER THE DIRECTION OF A LICENSED ARCHITECT, ENGINEER OR LAND SURVEYOR, TO ALTER AN ITEM IN ANY WAY. IF AN ITEM BEARING THE SEAL OF AN ARCHITECT, ENGINEER OR SURVEYOR IS ALTERED, THE ALTERING PARTY SHALL AFFIX TO THE ITEM THEIR SEAL AND THE NOTATION "ALTERED BY" FOLLOWED BY THEIR SIGNATURE AND THE DATE OF SUCH ALTERATION, AND A SPECIFIC DESCRIPTION OF THE ALTERATION.

SHEET INFORMATION

Issued	Scale
08/22/2022	AS SHOWN
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ROOF ELECTRICAL NEW WORK PLAN

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