

GENERAL NOTES

- AT A MINIMUM, ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE SUPPLEMENTAL UNIFORM AND FIRE PREVENTION BUILDING CODE, NYS BUILDING CODE, NYS MECHANICAL CODE, 2020 NYS ENERGY CODE, AND ALL CODES LOCAL OR OTHERWISE HAVING JURISDICTION OVER THE WORK. IF THE CONTRACT DOCUMENT SHOW DIFFERENT THAN THE CODE, THE MORE STRINGENT SHALL APPLY.
- ALL WORK SHOWN ON THE DRAWINGS SHALL BE PROVIDED UNLESS OTHERWISE NOTED.
- PIPING AND DUCTWORK IS DIAGRAMMATICALLY SHOWN. EXACT ROUTING OF NEW PIPING SHALL BE DETERMINED IN FIELD WITH THE APPROVAL OF THE ENGINEER.
- THE WORDS PROVIDE OR INSTALL, SINGLY OR IN COMBINATION SHALL MEAN FURNISH AND INSTALL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- EXISTING CONDITION HAVE BEEN GENERATED FROM AVAILABLE AS-BUILT DRAWINGS. CONTRACTOR SHALL VERIFY AS-BUILT CONDITIONS IN FIELD AND DEVIATIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO PERFORMING THE WORK.
- THE CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING TO MATCH EXISTING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED WORK, INCLUDING PROTECTION OF BUILDING OCCUPANTS AND OWNERS EQUIPMENT, PUBLIC, AND PERSONNEL. PROVIDE APPROPRIATE SIGNAGE, BARRIERS, AND SAFETY GUARD RAILS AS REQUIRED.
- WHERE WELDING OR OPEN FLAME IS USED FOR CUTTING, SOLDERING, ETC., CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS AND A FIRE WATCH IN PROXIMITY OF WORK AREA.
- ALL WORK SHALL BE COORDINATED WITH ALL TRADES RELATED TO THE COMPLETION OF THIS PROJECT.
- THE CONTRACTOR SHALL FILE PLANS WITH THE GOVERNING AUTHORITIES HAVING JURISDICTION AND SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE INSTALLATION OF HIS WORK.
- THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORK INSTALLED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR, AFTER ACCEPTANCE OF THE INSTALLATION BY THE ENGINEER AND OWNER. THE CONTRACTOR SHALL SUBMIT IN WRITING TO OWNER STATING THE SAME. EQUIPMENT WARRANTIES OF A LONGER DURATION SHALL APPLY.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, HIS REPRESENTATIVES AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING IN NEGLIGENCE ON THE PART OF THE CONTRACTOR AND FOR FAILING TO EXECUTE HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
- ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKMEN EXPERIENCED IN THE TRADE HAVING JURISDICTION. ALL WORK SHALL BE SUPERVISED AT ALL TIMES AND WORKMANSHIP SHALL BE FIRST CLASS IN ALL RESPECTS AND IN ACCORDANCE WITH BEST TRADE PRACTICES.
- ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND SIGNED BY THE OWNER. ANY WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER OR FOUND TO BE DEFECTIVE IN ANY WAY SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE AREA INDICATED ON PLANS AND SHALL NOT BLOCK MEANS OF EGRESS FOR OCCUPANTS OF THE BUILDING.
- ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 8AM TO 5PM MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE OWNER. WORKING HOURS MUST BE COORDINATED WITH CONTRACTOR. HOWEVER, THE CONTRACTOR MAY WORK EXTRA HOURS AS NEEDED TO COMPLETE THE CONTRACT SCOPE OF WORK AND MEET THE COMPLETION DATE AT NO ADDITIONAL COST TO OWNER, AS LONG AS OWNER HAS BEEN PROPERLY NOTIFIED AND HAS APPROVED SAME.
- ROUGH PATCHING OF WALLS, FLOORS, ETC. SHALL BE BY TRADE WHO PERFORMED WORK UNLESS OTHERWISE NOTED AND SHALL MATCH EXISTING SURROUNDING AREA IN ALL RESPECTS. WORK AREA SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY. ALL DISCARDED AND DEMOLISHED MATERIAL AND RUBBISH SHALL BE REMOVED FROM PREMISES DAILY IN A LEGAL AND APPROVED MANNER. FINAL PATCHING AND PAINTING SHALL BE PERFORMED BY GENERAL CONTRACTOR
- LIMIT THE SPREAD OF DUST WHEN CUTTING BY INSTALLING POLYETHYLENE BARRIERS OR TARPULINS AND EXHAUST TO CONTAIN AIRBORNE MATERIALS.
- THE CONTRACTOR SHALL SUBMIT DIGITAL COPIES OF SHOP DRAWINGS OF ALL EQUIPMENT, PIPING, DUCTWORK, AND MATERIALS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK, WITHIN TWO WEEKS AFTER AWARD OF CONTRACT. SHOP DRAWINGS SHALL INDICATE ALL TECHNICAL DATA, STRUCTURAL MEMBERS, WALLS, FLOORS, DUCTWORK, ETC., WITH ELEVATIONS AT WHICH NEW WORK IS TO BE INSTALLED. ANY DEVIATION IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND OWNER. THE ENGINEER SHALL REVIEW AND TURN AROUND SHOP DWGS. WITHIN (7) DAYS OF RECEIPT OF SAME.
- THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF SHOP DRAWINGS IN WHICH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO THE OWNER AND ENGINEER (1) SET OF AS-BUILT REPRODUCIBLE DRAWINGS AND (1) SET OF PRINTS INCLUDING ALL APPROVED FIELD CHANGES AND DESIGN DEVIATIONS PRIOR TO RECEIPT OF FINAL PAYMENT BY OWNER.
- ALL PENETRATIONS THROUGH PARTITIONS, FLOORS, WALLS AND ROOF FOR ALL PIPING, CONDUIT AND DUCTWORK SHALL BE SEALED AND FIRE SAFED OFF TO MAINTAIN FIRE INTEGRITY OF EXISTING STRUCTURE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AS WELL AS BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ADEQUATE PRECAUTIONS AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT INJURY OR DAMAGE TO PERSONS, THE WORK, AND OTHER PROPERTY.

HVAC NOTES

- PROVIDE ACCESSIBLE VOLUME DAMPERS AS INDICATED ON DRAWINGS AND AT ALL BRANCH DUCT TAKE OFFS FROM DUCT MAINS AND TO DIFFUSERS, REGISTERS AND GRILLES. VOLUME DAMPERS SHALL BE OPPOSED BLADE OR BUTTERFLY TYPE, GALVANIZED STEEL THAT CAN BE MANUALLY ADJUSTED AND LOCKED IN PLACE EXTERNALLY OF THE DUCT. PROVIDE LOCKING QUADRANT. ALL CONCEALED DAMPERS SHALL BE PROVIDED WITH ACCESS DOORS.
- PROVIDE SLEEVES FOR ALL DUCTS PENETRATING AND PASSING THROUGH ALL PARTITIONS, FLOORS, CEILINGS AND WALLS. ALLOW ROOM IN SLEEVE FOR INSULATION. SLEEVES SHALL BE MINIMUM OF 22 GAUGE SHEET METAL. PACK ANNULAR SPACE IN SLEEVE AROUND DUCT WITH FIRE RATED MATERIAL, SIMILAR TO THERMAFIBER. SEAL AND CAULK ALL WALL, FLOOR, CEILING AND SLAB OPENINGS WITH U.L. APPROVED FIRE RATED MATERIAL TO PREVENT TRANSMISSION OF ODORS AND SMOKE TO ADJACENT SPACES. ALL DUCT PENETRATIONS OF FIRE RATED WALLS AND SLABS SHALL BE EQUIPPED WITH FIRE/SMOKE RATED DAMPERS
- CONTRACTOR SHALL PROVIDE ACCESS DOORS IN ALL CEILINGS, DUCTS, CHASES AND WALLS AS REQUIRED FOR ACCESS TO ALL CONCEALED OPERATING DEVICES INCLUDING BUT NOT LIMITED TO FIRE DAMPERS, VOLUME DAMPERS, CONTROL DAMPERS AND BOXES, ETC.
- PROVIDE FIRE DAMPERS IN DUCTS PENETRATING ALL FIRE RATED WALLS. FIRE DAMPERS SHALL BE U.L. 555 CONSTRUCTED CURTAIN TYPE MINIMUM 1 1/2 HR RATED, SUITABLE FOR HORIZONTAL OR VERTICAL MOUNTING. PROVIDE BREAKAWAY DUCT FITTINGS AT ALL FIRE-DAMPER LOCATIONS. COORDINATE WITH GENERAL CONTRACTOR FOR WALL CLASSIFICATIONS.
- ALL HVAC WORK SHALL BE INSTALLED IN STRICT ACCORDANCE WITH THE NYS MECHANICAL CODE, STATE AND LOCAL BUILDING CODES, SMACNA AND ASHRAE STANDARDS, NFPA-90A, ALL CODES AND ORDINANCES HAVING JURISDICTION, AND IN ACCORDANCE WITH MANUFACTURERS RECOMMENDATIONS AT A MINIMUM.
- UPON COMPLETION OF ALL WORK, ALL EQUIPMENT AND DUCTWORK SHALL BE THOROUGHLY CLEANED AND LEFT IN FIRST CLASS CONDITION.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL EQUIPMENT UNDER THIS SECTION UNTIL FINAL ACCEPTANCE BY THE ENGINEER.
- ALL EQUIPMENT SHALL BE TESTED IN ACCORDANCE WITH ALL APPLICABLE CODES, MANUFACTURER SPECIFICATIONS, AND TO THE SATISFACTION OF THE ENGINEER.
- BALANCE AND ADJUST AIRFLOW TO REGISTERS AND GRILLES AS INDICATED ON DRAWINGS. ALL SYSTEMS SHALL BE BALANCED TO WITHIN 0+-5% OF DESIGN FLOW WITH REPORT SUBMITTED TO OWNER. BALANCING WORK SHALL BE PERFORMED BY AN INDEPENDENT CERTIFIED BALANCING CONTRACTOR WHO IS CERTIFIED BY AABC OR NEBB. SUBMIT BALANCING REPORT TO ENGINEER FOR APPROVAL.
- ALL DUCTWORK SHALL BE GALVANIZED SHEET METAL UNLESS OTHERWISE NOTED AND SHALL BE INSTALLED IN ACCORDANCE WITH SMACNA METAL AND FLEXIBLE DUCT CONSTRUCTION STANDARDS LATEST EDITION AND APPLICABLE CODES. ALL DUCTWORK SIZES SHOWN ARE SHEETMETAL SIZES, AND REDUCTIONS IN FREE AREA CREATED BY INTERNAL SOUND-LINING ARE ACCOUNTED FOR IN DESIGN.
- CONTRACTOR SHALL PROVIDE ALL CONTROLS, AND CONTROL WIRING AS REQUIRED FOR COMPLETE CONTROL OF EQUIPMENT FOR A COMPLETE FUNCTIONING SYSTEM. REFER TO ELECTRICAL DRAWINGS FOR STANDARDS OF CONSTRUCTION.
- ALL AIR CONDITIONING SUPPLY AND RETURN DUCTWORK SHALL BE INSULATED WITH R5 HEAVY DENSITY FIBERGLASS BLANKET WRAP WITH VAPOR BARRIER FOIL FACED JACKET WHERE DUCTWORK IS CONCEALED ABOVE DROP CEILING AND NOT SHOWN TO BE ACOUSTICALLY LINED. DUCT SIZES SHOWN ARE CLEAR OF ACOUSTIC LINING. INCREASE DUCT SIZE ACCORDINGLY. ALL EXPOSED DUCTWORK TO BE ACOUSTICALLY LINED.
- INSTALL ALL REQUIRED APPURTENANCES PER CODE WHETHER SPECIFIED OR NOT FOR COMPLETE FUNCTIONING SYSTEMS.
- HVAC INSULATION (AS MANUFACTURED BY OWENS CORNING, KNAUF, SCHULLER, OR ENGINEERED APPROVED EQUAL)
 - INSULATE ALL NON-LINED SUPPLY, RETURN, AND EXHAUST DUCTS IN UNCONDITIONED SPACES WITH 1-1/2" THICK FOIL FACED REINFORCED KRAFT JACKET, FIBERGLASS DUCT WRAP FULLY SECURED TO DUCT. LAP AND TAPE SEAMS AND SECURE TIGHTLY TO THE DUCTS WITH WIRE OR STICK PINS.
 - ALL INSULATION TO BE APPLIED IN FULLY ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS AND COMPLY WITH 25/50 FLAME AND SMOKE HAZARD RATINGS PER ASTM E-84, NFPA 255 AND UL 723.
 - INSULATE AIR CONDITIONING CONDENSATE DRAIN PIPING WITH 1" THICK MOLDED FIBER GLASS INSULATION.
- CONDENSATE DRAIN PIPING SHALL BE COPPER DWV. ROUTE ALL CONDENSATE DRAIN PIPING TO SPILL OVER INTERIOR BUILDING DRAINS.

LEGEND

SYMBOL	DESCRIPTION
	EXISTING WORK OR BY OTHERS
	WORK TO BE PROVIDED
	WORK TO BE REMOVED
	POINT OF CONNECTION
	POINT OF DISCONNECTION
	RISER
	ELBOW DOWN
	UNION
	EXHAUST DUCT
	RETURN DUCT
	SUPPLY DUCT
	DUCT ELBOW WITH TURNING VANES
	GATE VALVE
	MOTORIZED OPERATED DAMPER
	DUCT MOUNTED TEMPERATURE SENSOR
	THERMOSTAT
RS	REFRIGERANT SUCTION
RL	REFRIGERANT LIQUID
OA	OUTSIDE AIR
SA	SUPPLY AIR
RA	RETURN AIR
CD	CEILING DIFFUSER
EAT	ENTERING AIR TEMPERATURE
LAT	LEAVING AIR TEMPERATURE
ESP	EXTERNAL STATIC PRESSURE
EWT	ENTERING WATER TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
GPM	GALLONS PER MINUTE
CU-1	DENOTES CONDENSER UNIT NO.1
AHU-1	DENOTES AIR HANDLER NO.1
SD-1	DENOTES SUPPLY DIFFUSER NO. 1
RG-1	DENOTES RETURN GRILLE NO.1

NOTE: ALL WORK TO BE PROVIDED UNLESS OTHERWISE NOTED

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The following is paraphrased from the New York Education Law, Article 143, Section 7209, and Chapter 13, Section 79-14, and applies to this drawing: "It is a violation of this law for any person unless he is acting under the direction of a licensed professional engineer, licensed landscape architect or licensed land surveyor to alter an item in any way. If an item bearing the seal of an engineer, landscape architect or land surveyor is altered, the altering engineer, landscape architect or land surveyor shall affix to the item his seal and the notation "altered by" followed by his signature and the date of such alteration and a specific description of the alteration"



TAMPLIN ENGINEERING, PLLC

PROJECT TITLE **PHILLIP J ROTELLA GOLF CLUB HVAC REPLACEMENT**

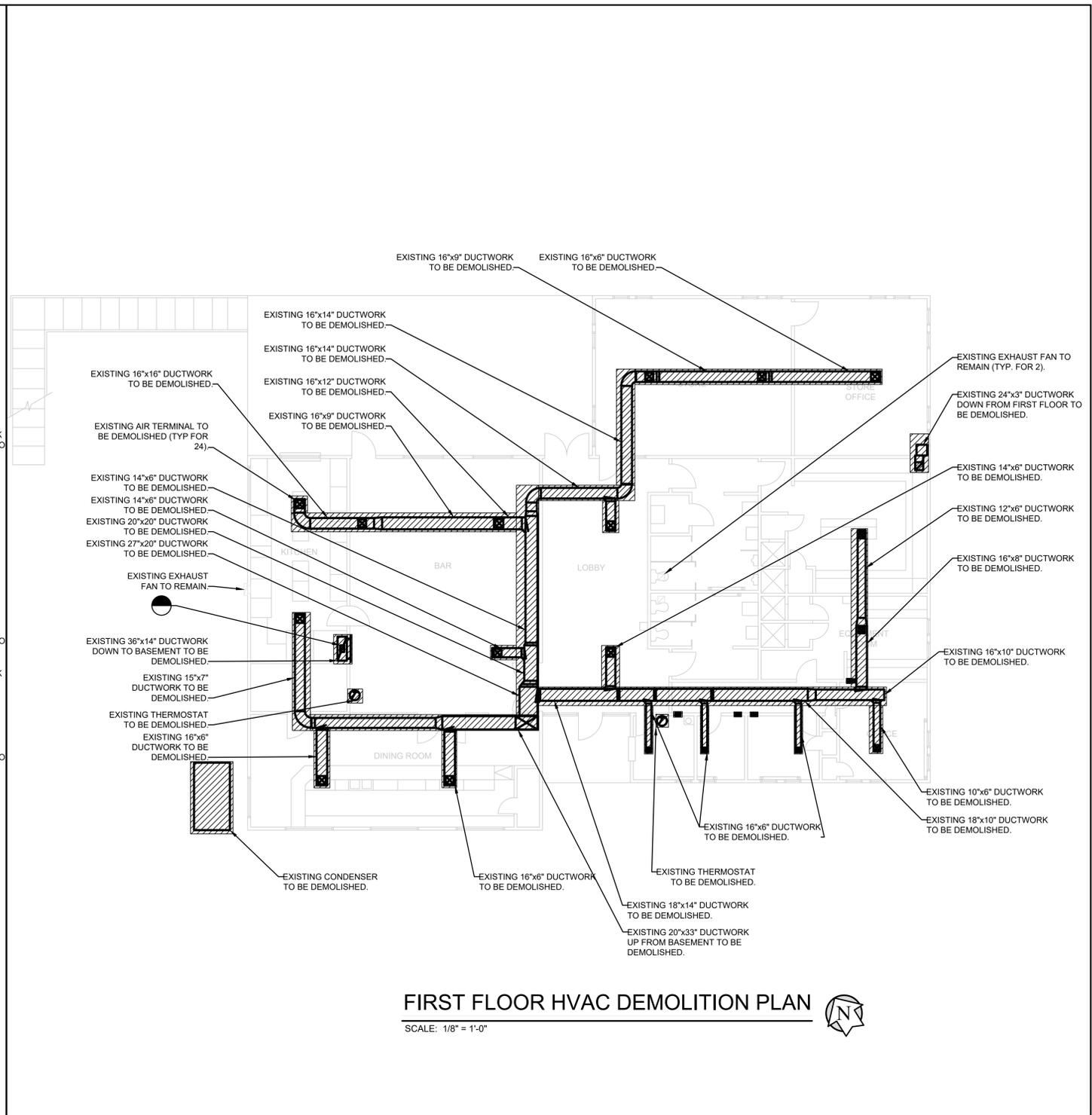
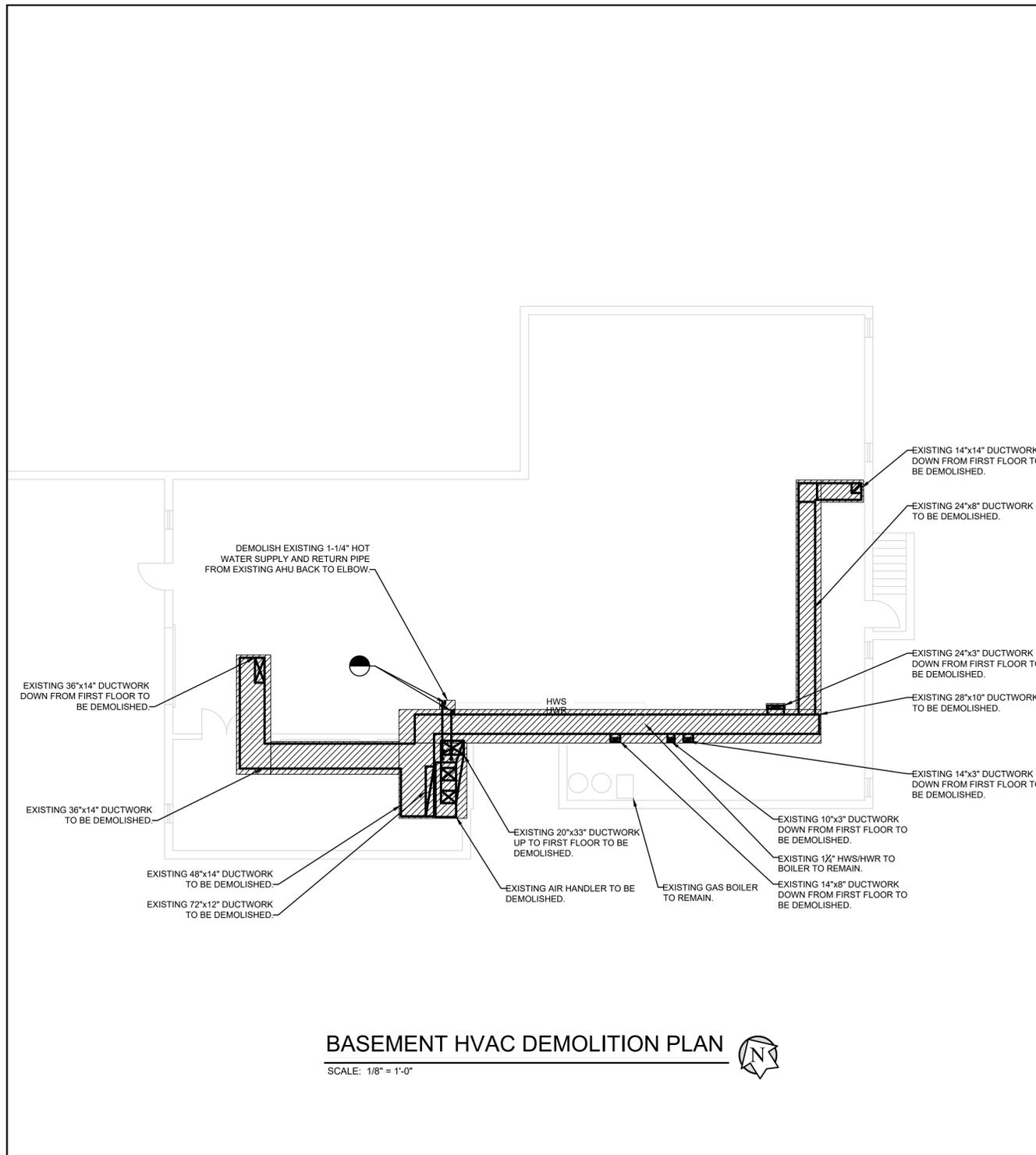
PROJECT LOCATION: **200 THIELLS MT IVY RD, POMONA NY**

CLIENT: **TOWN OF HAVERSTRAW**

DRAWING TITLE: **HVAC NOTES AND LEGEND**

DRAWINGS ISSUED FOR / REVISIONS

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3						DRAWN BY: KPT
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PROJECT LOCATION: **200 THIELLS MT IVY RD, POMONA NY**

CLIENT: **TOWN OF HAVERSTRAW**

DRAWING TITLE: **HVAC DEMOLITION PLAN**

DRAWINGS ISSUED FOR / REVISIONS				BY	CHK	APP	DATE
NO.	DATE	ISSUED FOR / REVISION					
1	09/20/2024	100% FOR CLIENT REVIEW	EDR	JSR	GRL		SCALE: 1/8" = 1'-0"
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3							CHECKED BY: GRL
4							DRAWING NUMBER:
5							
6							

EDR JOB#: **18136**

DATE: **09/20/2024**

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

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DRAWING NUMBER:

H-2

CONDENSER SCHEDULE

UNIT NO.	LOCATION	COOLING				ELECTRICAL DATA			DIMENSIONS LxWxH	WEIGHT (LBS)	MFR. & MODEL NO.	REMARKS	
		NOMINAL TONNAGE	COOLING CAPACITY (MBH)	EFFICIENCY		REFRIGERANT							
				IEER	EER	TYPE	V/P/Hz	MCA					MOC
CU-1	NORTHWEST BUILDING EXTERIOR	20	254.2	26.5 / 22.5	10.4	R-454B	208/3/60	16	20	91" x 63" x 67.3"	1423	AAON CFA-020-C-A-8-LA00N	

AIR TERMINALS

UNIT NO.	NO.	CFM (MAX/MIN)	ESP (\"WG)	DIMENSIONS LxW (INCHES)	BLADE SPACING (INCHES)	MATERIAL	NC	THROW (FEET)	MFR. & MODEL NO.	REMARKS
SD-1	13	440 / 260	.073	24x24	-	STEEL	25	6	TITUS TMSA-AA 12\" DIA.	1, 2
SD-2	2	800	.094	24x24	-	STEEL	20	14	TITUS TMSA-AA 15\" DIA.	1, 2
RG-1	7	1,215 / 335	.008	24x24	3/4"	STEEL	25	-	TITUS 23RL	1, 2
RG-2	1	3635	.04	36x20	3/4"	STEEL	45	-	TITUS 23RL	1, 2
RG-3	1	1285	.016	30x12	3/4"	STEEL	35	-	TITUS 23RL	1, 2
RG-4	1	1060	.01	10x10	3/4"	STEEL	30	-	TITUS 23RL	1, 2

- NOTES:
- GRILLES SHALL BE COMPATIBLE WITH ARCHITECTURAL CEILING GRID AND/OR WALLS AS REQUIRED. CONTRACTOR IS RESPONSIBLE FOR COORDINATING GRILLE MOUNTING OPTIONS WITH ARCHITECT AND MANUFACTURER PRIOR TO ORDERING AND INSTALLING.
 - COORDINATE GRILLE INSTALLATION WITH ALL OTHER TRADES.

AIR HANDLERS

UNIT NO.	LOCATION	UNIT TYPE	NOMINAL TONNAGE	CONDENSING UNIT	COOLING CAPACITY					HOT WATER HEATING COIL			HEATING CAPACITY (MBH)	ELECTRICAL DATA			DIMENSIONS LxW (INCHES)	WEIGHT (lbs.)	MFR. & MODEL NO.	REMARKS
					CFM	TOTAL MBH	SENSIBLE MBH	ENTERING AIR (\"F DB)	ENTERING AIR (\"F WB)	ENTERING WATER TEMPERATURE (\"F)	LEAVING WATER TEMPERATURE (\"F)	GPM		V/P/Hz	MCA	MOC				
AHU-1	BASEMENT	VERTICAL DUCTED	20	CU-1	8,000	254.2	210.5	78.8	64.7	180	160	34	326.6	208/3/60	16	20	78.5" x 56.5" x 98.4"	1345	AAON V3-ERB-8-0-426C-61H	1

- NOTES:
- AIR HANDLER SHALL INCLUDE RA SMOKE DETECTOR

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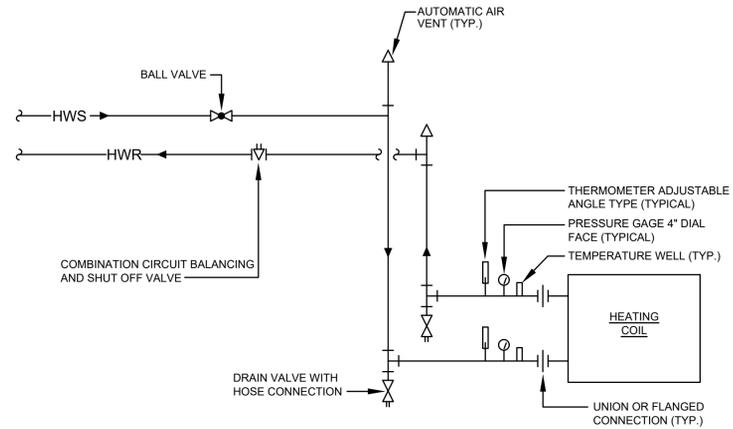
PROJECT TITLE: **PHILLIP J ROTELLA GOLF CLUB HVAC REPLACEMENT**

PROJECT LOCATION: **200 THIELLS MT IVY RD, POMONA NY**

CLIENT: **TOWN OF HAVERSTRAW**

DRAWING TITLE: **HVAC SCHEDULES**

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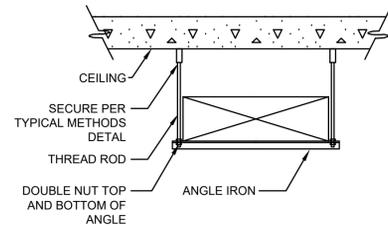


HEATING COIL CONNECTION DETAIL

NO SCALE

NOTES:

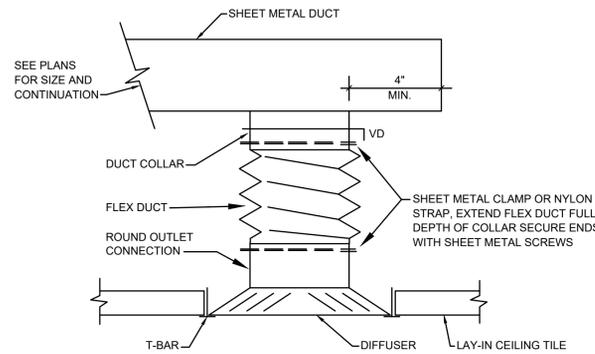
1. PROVIDE AUTOMATIC AIR VENTS AT ALL HIGH POINTS.
2. PROVIDE VALVED DRAINS WITH HOSE THREAD FITTINGS AT ALL LOW POINTS.
3. PROVIDE 4 ELBOW SWING JOINT CONNECTION FROM MAINS TO COIL.



CONTRACTOR SHALL PROVIDE ADDITIONAL SUPPORTS AS NECESSARY

DUCT HANGER DETAIL

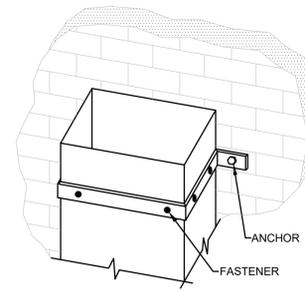
NO SCALE



CEILING DIFFUSER CONNECTION DETAIL

NO SCALE

NOTE: DUCT TAP AND FLEX DUCT SIZES SHALL MATCH DIFFUSER NECK SIZE.



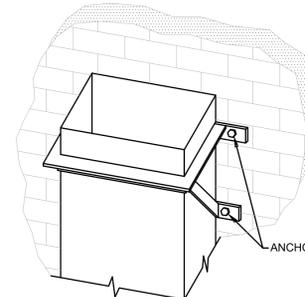
SUGGESTED SIZING

DUCT SIZE	BAND
18" x 12"	1-1/2" x 16 Ga.
24" x 20"	1" x 1/8"

ALLOWABLE LOAD

DUCT GAGE	ALLOWABLE LOAD PER FASTENER
28, 26	25 LBS
24, 22, 20	35 LBS
18, 16	50 LBS

NOTES:
WELD, BOLT OR NO. 8 SCREW (MIN.) ACCEPTABLE AS FASTENERS
MINIMUM OF 3 FASTENERS ON 24" WIDTH AND UP
ADD ALONG SIDE NEAREST ANCHORS



SUGGESTED SIZING

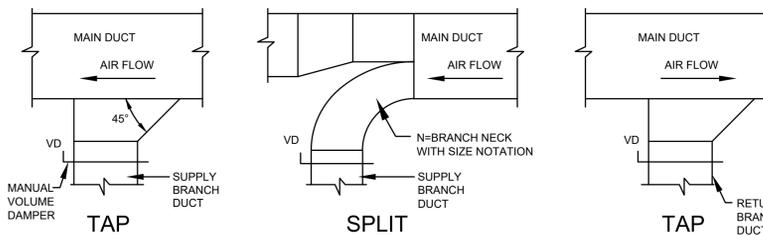
DUCT SIZE	BAND
30" x 12"	1" x 1" x 1/8"
36" x 18"	1" x 1" x 1/8"
42" x 24"	1-1/4" x 1-1/4" x 1/8"
48" x 30"	1-1/4" x 1-1/4" x 1/8"

DUCT SUPPORTS FROM WALL

NO SCALE

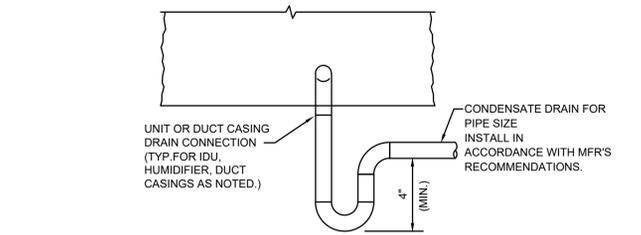
NOTES:

1. BRACKETS ARE SIZED FOR 12" OF DUCT, MAXIMUM.
2. LOCATE CUTS AGAINST WALL OR MAXIMUM OF 2" AWAY FROM WALL.
3. EACH WALL ANCHOR SHALL SATISFY THE FOLLOWING CRITERIA UNLESS OTHER ANALYSIS IS MADE:
 - A. TENSILE LOAD= 3/8 x DUCT WEIGHT; SAFETY FACTOR OF 4.
 - B. SHEAR LOAD= 1/2 x DUCT WEIGHT; SAFETY FACTOR OF 4.



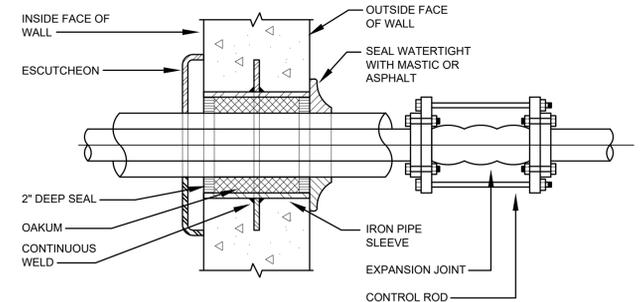
TYPICAL BRANCH DUCT TAKE-OFF DETAIL

NO SCALE



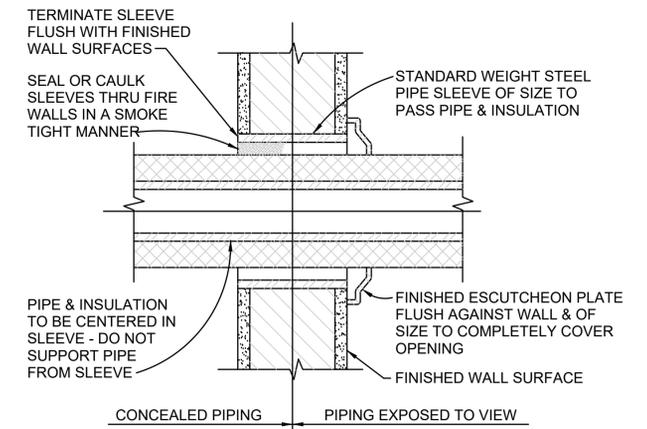
CONDENSATE DRAIN CONNECTION DETAIL

NO SCALE



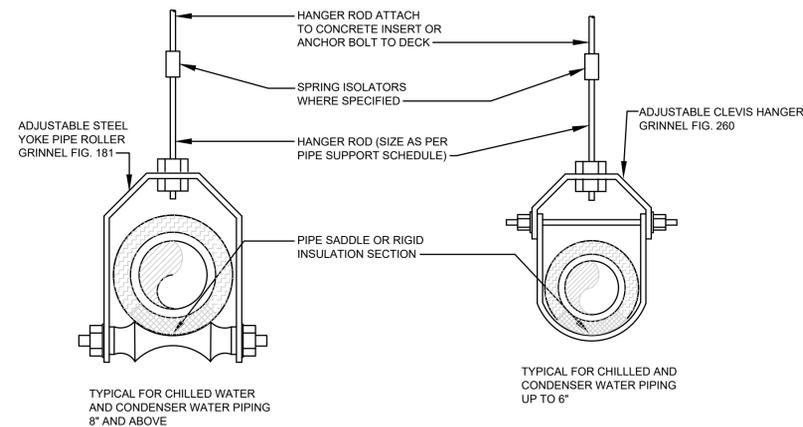
PIPE SLEEVE THRU EXTERIOR WALL

NO SCALE



PIPE SLEEVE THRU INTERIOR WALL

NO SCALE



TYPICAL FOR CHILLED WATER AND CONDENSER WATER PIPING 8" AND ABOVE

TYPICAL FOR CHILLED AND CONDENSER WATER PIPING UP TO 6"

SUSPENDED PIPING SUPPORT DETAIL

NO SCALE

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PROJECT LOCATION: **200 THIELS MT IVY RD, POMONA NY**

CLIENT: **TOWN OF HAVERSTRAW**

DRAWING TITLE: **HVAC DETAILS**

DRAWINGS ISSUED FOR / REVISIONS

NO.	DATE	ISSUED FOR / REVISION	BY	CHE	APP	DATE
1	09/20/2024	100% FOR CLIENT REVIEW	EDR	JSR	GRL	09/20/24
2						
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SCALE: **NTS**

DRAWN BY: **KPT**

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ABBREVIATIONS:

MCC - MOTOR CONTROL CENTER
MCP - MOTOR CIRCUIT PROTECTOR
MCS/ - MOLDED CASE SWITCH
T - THERMAL ONLY
M - MAGNETIC ONLY
AUTO - AUTOMATIC ONLY
MDP - MAIN DISTRIBUTION PANEL
MFR - MANUFACTURER
MIN - MINIMUM
MLO - MAIL LUGS ONLY
MMS - MANUAL MOTOR STARTER
MSS - MOTOR STARTING SWITCH
MTR - MOTOR TIMING RELAY
MWTS - MOTOR WINDING TEMPERATURE SENSOR
MWTP - MOTOR WINDING THERMAL PROTECTION
Mx - MOTOR CONTACTOR AUXILIARY CONTACT
NC - NORMALLY CLOSED
NEC - NATIONAL ELECTRIC CODE
NO - NORMALLY OPEN
NP - NAMEPLATE
OH/E - OVERHEAD ELECTRIC
OH/L - OVERHEAD TELEPHONE
OL - OVERLOAD RELAY
O&R - ORANGE AND ROCKLAND COUNTY UTILITY COMPANY
Ø - PHASE
P - POLE
PB - PUSHBUTTON
PBx - PULL BOX
PF - PULLING FITTING
PLC - PROGRAMMABLE LOGIC CONTROLLER
PNL - PANEL
PR - POTENTIOMETER
PR - PAIR
PSH - PRESSURE SWITCH
PT - POTENTIAL TRANSFORMER
R&R - REMOVE & REPLACE
RECP - RECEPTACLE
RGS - RIGID GALVANIZED STEEL CONDUIT
ROS - REMOTE OPERATING STATION
RV-AT - REDUCED VOLTAGE AUTO TRANSFORMER
RVSS - REDUCED VOLTAGE SOFT STARTER
RTU - REMOTE TERMINAL UNIT
SA - SURGE ARRESTOR
SCR - SILICON CONTROLLED RECTIFIER
SD - DUCT SMOKE DETECTOR
SEC - SECOND
SEL or SEL SW - SELECTOR SWITCH
SF - SUPPLY FAN
SHLD - SHIELDED
S/L - STOP/LOCKOUT SWITCH
SN - SOLID NEUTRAL
SS - STAINLESS STEEL
SSRVS - SOLID STATE REDUCED VOLTAGE STARTER
SSW - SAFETY SWITCH
S/S - STOP/START PUSH BUTTON
STR - STRANDED
SV - SOLENOID VALVE
SW - SWITCH
SWBD - SWITCHBOARD
SWD - SWITCHING DUTY
SWSV - SEALWATER SOLENOID VALVE
TC - TERMINAL CABINET OR TIMED CLOSED
TDR - TIME DELAY RELAY
TERM - TERMINAL
TR - TIMER
TR.SW. - TRANSFER SWITCH
TR24 - 24-HOUR TIMER
TPR - TERTIARY PHOSPHOROUS REMOVAL
TS - TORQUE SWITCH
TSH - TEMPERATURE SWITCH HIGH
TSP - TWISTED SHIELDED PAIR
TST - TWISTED SHIELDED TRIAD
TYP - TYPICAL
UG/E - UNDERGROUND ELECTRIC
UG/T - UNDERGROUND TELEPHONE
UNK - UNKNOWN
UPS - UNINTERRUPTIBLE POWER SUPPLY
VA - VOLT-AMPERES
VFD - VARIABLE FREQUENCY DRIVE
VM - VOLTMETER
VS - VOLTMETER SWITCH
VSC - VARIABLE SPEED CONTROL
VSH - VIBRATION SWITCH HIGH
W/ - WITH
WP - WEATHER PROOF, WATER PROOF
XP - EXPLOSION PROOF
2S1W - 2 SPEED, 1 WINDING
2S2W - 2 SPEED, 2 WINDING
XFMR - TRANSFORMER

GENERAL NOTES

- AT A MINIMUM, ALL WORK SHALL COMPLY WITH AND BE INSTALLED IN ACCORDANCE WITH THE SUPPLEMENTAL UNIFORM AND FIRE PREVENTION BUILDING CODE, NYS BUILDING CODE, NYS MECHANICAL CODE, 2020 NYS ENERGY CODE, AND ALL CODES LOCAL OR OTHERWISE HAVING JURISDICTION OVER THE WORK. IF THE CONTRACT DOCUMENT SHOW DIFFERENT THAN THE CODE, THE MORE STRINGENT SHALL APPLY.
- ALL WORK SHOWN ON THE DRAWINGS SHALL BE PROVIDED UNLESS OTHERWISE NOTED.
- PIPING AND DUCTWORK IS DIAGRAMMATICALLY SHOWN. EXACT ROUTING OF NEW PIPING SHALL BE DETERMINED IN FIELD WITH THE APPROVAL OF THE ENGINEER.
- THE WORDS PROVIDE OR INSTALL, SINGLY OR IN COMBINATION SHALL MEAN FURNISH AND INSTALL IN ACCORDANCE WITH THE PLANS AND SPECIFICATIONS.
- EXISTING CONDITION HAVE BEEN GENERATED FROM AVAILABLE AS-BUILT DRAWINGS. CONTRACTOR SHALL VERIFY AS-BUILT CONDITIONS IN FIELD AND DEVIATIONS SHALL BE REPORTED TO THE ENGINEER PRIOR TO PERFORMING THE WORK.
- THE CONTRACTOR SHALL PROVIDE ALL CUTTING AND PATCHING TO MATCH EXISTING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
- THIS CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF HIS WORK AND NEWLY INSTALLED WORK, INCLUDING PROTECTION OF BUILDING OCCUPANTS AND OWNERS EQUIPMENT, PUBLIC, AND PERSONNEL. PROVIDE APPROPRIATE SIGNAGE, BARRIERS, AND SAFETY GUARD RAILS AS REQUIRED.
- WHERE WELDING OR OPEN FLAME IS USED FOR CUTTING, SOLDERING, ETC., CONTRACTOR SHALL PROVIDE FIRE EXTINGUISHERS AND A FIRE WATCH IN PROXIMITY OF WORK AREA.
- ALL WORK SHALL BE COORDINATED WITH ALL TRADES RELATED TO THE COMPLETION OF THIS PROJECT.
- THE CONTRACTOR SHALL FILE PLANS WITH THE GOVERNING AUTHORITIES HAVING JURISDICTION AND SHALL SECURE ALL PERMITS AND PAY ALL FEES REQUIRED FOR THE INSTALLATION OF HIS WORK.
- THE CONTRACTOR SHALL GUARANTEE ALL MATERIAL AND WORK INSTALLED TO BE FREE FROM DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR, AFTER ACCEPTANCE OF THE INSTALLATION BY THE ENGINEER AND OWNER. THE CONTRACTOR SHALL SUBMIT IN WRITING TO OWNER STATING THE SAME. EQUIPMENT WARRANTIES OF A LONGER DURATION SHALL APPLY.
- THE CONTRACTOR SHALL INDEMNIFY THE OWNER, HIS REPRESENTATIVES AND THE ENGINEER FROM ANY CLAIMS OR SUITS RESULTING IN NEGLIGENCE ON THE PART OF THE CONTRACTOR AND FOR FAILING TO EXECUTE HIS WORK IN ACCORDANCE WITH THE CONTRACT DOCUMENTS.
- THE CONTRACTOR SHALL PROVIDE ALL RIGGING, HOISTING AND SCAFFOLDING AS REQUIRED FOR THE INSTALLATION OF HIS WORK.
- ALL WORK SHALL BE PERFORMED BY LICENSED CONTRACTORS AND WORKMEN EXPERIENCED IN THE TRADE HAVING JURISDICTION. ALL WORK SHALL BE SUPERVISED AT ALL TIMES AND WORKMANSHIP SHALL BE FIRST CLASS IN ALL RESPECTS AND IN ACCORDANCE WITH BEST TRADE PRACTICES.
- ANY DEVIATION OR CHANGE IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND SIGNED BY THE OWNER. ANY WORK INSTALLED WITHOUT PRIOR APPROVAL OF THE ENGINEER AND OWNER OR FOUND TO BE DEFECTIVE IN ANY WAY SHALL BE REPLACED BY THE CONTRACTOR AT HIS OWN EXPENSE.
- ALL CONSTRUCTION WORK SHALL BE CONFINED TO THE AREA INDICATED ON PLANS AND SHALL NOT BLOCK MEANS OF EGRESS FOR OCCUPANTS OF THE BUILDING.
- ALL WORK SHALL BE PERFORMED DURING NORMAL WORKING HOURS: 8AM TO 5PM MONDAY THROUGH FRIDAY EXCEPT LEGAL HOLIDAYS OR FOR EMERGENCY REPAIRS, UNLESS DIRECTED OTHERWISE BY THE OWNER. WORKING HOURS MUST BE COORDINATED WITH CONTRACTOR. HOWEVER, THE CONTRACTOR MAY WORK EXTRA HOURS AS NEEDED TO COMPLETE THE CONTRACT SCOPE OF WORK AND MEET THE COMPLETION DATE AT NO ADDITIONAL COST TO OWNER, AS LONG AS OWNER HAS BEEN PROPERLY NOTIFIED AND HAS APPROVED SAME.
- ROUGH PATCHING OF WALLS, FLOORS, ETC. SHALL BE BY TRADE WHO PERFORMED WORK UNLESS OTHERWISE NOTED AND SHALL MATCH EXISTING SURROUNDING AREA IN ALL RESPECTS. WORK AREA SHALL BE LEFT BROOM CLEAN AT THE END OF EACH DAY. ALL DISCARDED AND DEMOLISHED MATERIAL AND RUBBISH SHALL BE REMOVED FROM PREMISES DAILY IN A LEGAL AND APPROVED MANNER. FINAL PATCHING AND PAINTING SHALL BE PERFORMED BY GENERAL CONTRACTOR
- LIMIT THE SPREAD OF DUST WHEN CUTTING BY INSTALLING POLYETHYLENE BARRIERS OR TARPULINS AND EXHAUST TO CONTAIN AIRBORNE MATERIALS.
- THE CONTRACTOR SHALL SUBMIT DIGITAL COPIES OF SHOP DRAWINGS OF ALL EQUIPMENT, PIPING, DUCTWORK, AND MATERIALS TO THE ENGINEER FOR APPROVAL PRIOR TO FABRICATION AND INSTALLATION OF NEW WORK, WITHIN TWO WEEKS AFTER AWARD OF CONTRACT. SHOP DRAWINGS SHALL INDICATE ALL TECHNICAL DATA, STRUCTURAL MEMBERS, WALLS, FLOORS, DUCTWORK, ETC., WITH ELEVATIONS AT WHICH NEW WORK IS TO BE INSTALLED. ANY DEVIATION IN DESIGN SHALL NOT BE MADE WITHOUT WRITTEN APPROVAL OF THE ENGINEER AND OWNER. THE ENGINEER SHALL REVIEW AND TURN AROUND SHOP DWGS. WITHIN (7) DAYS OF RECEIPT OF SAME.
- THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF CONTRACT DRAWINGS.
- THE CONTRACTOR SHALL MAINTAIN ON THE JOB SITE A SET OF SHOP DRAWINGS IN WHICH ANY DEVIATIONS FROM THE ORIGINAL DESIGN SHALL BE NOTED. UPON COMPLETION OF THE INSTALLATION OF NEW WORK THE CONTRACTOR SHALL TURN OVER TO THE OWNER AND ENGINEER (1) SET OF AS-BUILT REPRODUCIBLE DRAWINGS AND (1) SET OF PRINTS INCLUDING ALL APPROVED FIELD CHANGES AND DESIGN DEVIATIONS PRIOR TO RECEIPT OF FINAL PAYMENT BY OWNER.
- ALL PENETRATIONS THROUGH PARTITIONS, FLOORS, WALLS AND ROOF FOR ALL PIPING, CONDUIT AND DUCTWORK SHALL BE SEALED AND FIRE SAFED OFF TO MAINTAIN FIRE INTEGRITY OF EXISTING STRUCTURE.
- THE CONTRACTOR SHALL SUPERVISE AND DIRECT THE WORK, AS WELL AS BE SOLELY RESPONSIBLE FOR THE CONSTRUCTION MEANS METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES OF THE WORK.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR TAKING ADEQUATE PRECAUTIONS AND SHALL PROVIDE REASONABLE PROTECTION TO PREVENT INJURY OR DAMAGE TO PERSONS, THE WORK, AND OTHER PROPERTY.

ELECTRICAL SPECIFICATIONS

- ALL ELECTRICAL WORK SHALL COMPLY WITH THE REQUIREMENTS OF THE 2017 NATIONAL ELECTRICAL CODE AND ALL LOCAL CODES AND ORDINANCES HAVING JURISDICTION.
- BEFORE COMMENCING HIS WORK, THE ELECTRICAL CONTRACTOR SHALL VISIT THE PREMISES AND NOTIFY THE OWNER AND ARCHITECT OF ANY EXISTING CONDITIONS THAT WILL INTERFERE WITH HIS WORK.
- ALL BRANCH CIRCUIT WIRING SHALL BE #12 TYPE THHN COPPER, IN E.M.T. INDOORS, AND OUTDOOR APPLICATIONS.
- ALL FEEDER CABLES AND CABLE TO MECHANICAL EQUIPMENT SHALL BE TYPE "THW" COPPER - SIZE AS INDICATED ON THE DRAWINGS, WITH FLEXIBLE CONNECTION TO EQUIPMENT.
- BRANCH CIRCUIT CONDUIT FOR LIGHTING AND RECEPTACLES SHALL BE (E.M.T.) THIN WALL CONDUIT MINIMUM 3/4" INSTALLED ABOVE HUNG CEILINGS, GREENFIELD WITH GROUND IN HOLLOW WALL PARTITIONS. COMPRESSION COUPLINGS FOR E.M.T.
- ALL RECEPTACLES, SWITCHES, AND MISCELLANEOUS WIRING DEVICES SHALL BE OF "SPECIFICATION GRADE."
- THE ELECTRICAL CONTRACTOR SHALL RENDER ALL NECESSARY ASSISTANCE TO THE HVAC TRADE FOR CONNECTIONS OF ALL CONTROL WIRING FURNISHED AND INSTALLED BY THE HVAC CONTRACTOR.
- ALL CONDUIT OR CABLE FEEDING SAME SHALL BE CONCEALED BEING INTRODUCED FROM CEILING AND RUN WITHIN THE WALL HOLLOW AND WITHIN FILLER PANELS WHERE FEASIBLE.
- ALL POWER WIRING FOR HVAC EQUIPMENT SHALL BE ELECTRICAL CONTRACTOR.
- AUTOMATIC TEMPERATURE CONTROL WIRING SHALL BE BY THE HVAC CONTRACTOR.
- PROVIDE TEMPORARY LIGHT AND POWER FOR CONSTRUCTION, WITH GROUND FAULT PROTECTION.
- COLOR CODE ALL WIRES FOR PROPER PHASE/VOLTAGE IDENTIFICATION.
- ENGRAVED BAKELITE NAMEPLATES SHALL BE INSTALLED IN ALL EQUIPMENT DENOTING FUNCTION OF THE EQUIPMENT OR LOAD SERVICE.
- CUTTING AND PATCHING FOR ALL ELECTRICAL WORK IS THE RESPONSIBILITY OF THE ELECTRICAL CONTRACTOR.
- GROUND WIRE SHALL BE FURNISHED THROUGHOUT THE ELECTRICAL SYSTEM EVEN IF NOT SPECIFICALLY SHOWN.
- DISCONNECT SWITCHES SHALL BE HEAVY DUTY TYPE HD AS MANUFACTURED BY GENERAL ELECTRIC.

SYMBOL	DESCRIPTION
	EQUIPMENT, DEVICE, CONDUIT, WIRE, ETC. TO BE PROVIDED AND INSTALLED UNDER THIS CONTRACT
	EXISTING EQUIPMENT, DEVICE, CONDUIT, WIRE, ETC. TO REMAIN
	EXISTING EQUIPMENT, DEVICE, CONDUIT, WIRE, ETC. TO BE REMOVED
	EXISTING EQUIPMENT, DEVICE, CONDUIT, WIRE ETC. TO BE REMOVED
	JUNCTION BOX
	DISCONNECT SWITCH, (FRAME/FUSE)
	FLEXIBLE CONDUIT
	WIRES CONNECTED
	UTILITY COMPANY METER.
	120/208V 3Ø 4W PANELBOARD
	CIRCUIT BREAKER (AMPACITY/PHASE)



DRAWINGS ISSUED FOR / REVISIONS		EDR JOB# 18136		
NO	DATE	ISSUED FOR / REVISION	BY	CHK APP DATE: 09/2024
1	09/20/2024	100% FOR CLIENT REVIEW	EDR	JSR GRL SCALE: NTS
2				DRAWN BY: AMC
3				CHECKED BY: JGD
4				DRAWING NUMBER:
5				
6				

PROJECT TITLE: **PHILLIP J ROTELLA GOLF CLUB HVAC REPLACEMENT**

PROJECT LOCATION: **200 THIELLS MT IVY RD, POMONA NY**

CLIENT: **TOWN OF HAVERSTRAW**

DRAWING TITLE: **ELECTRICAL NOTES AND LEGEND**

CONTRACT

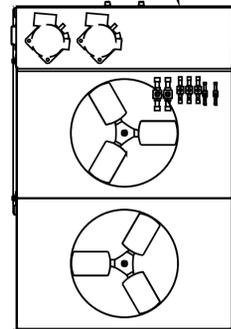
CU-1
TO BE
REMOVED
AND
REPLACED

200A DISCONNECT
SWITCH TO BE
INSTALLED

AHU-1
TO BE REMOVED
AND
REPLACED

PRO SHOP,
CLUBHOUSE, &
RESTAURANT
METERING AND MAIN
DISCONNECTS

100A DISCONNECT
SWITCH TO BE
REMOVED



BASEMENT ELECTRICAL PLAN

SCALE: 1/2" = 1'-0"



RESTAURANT
SUBPANEL

PRO SHOP #1
PANEL

RESTAURANT
PANEL

BOGEY'S
RESTAURANT
SUB-PANEL

CLUBHOUSE
MDB

TOWN
PANEL B

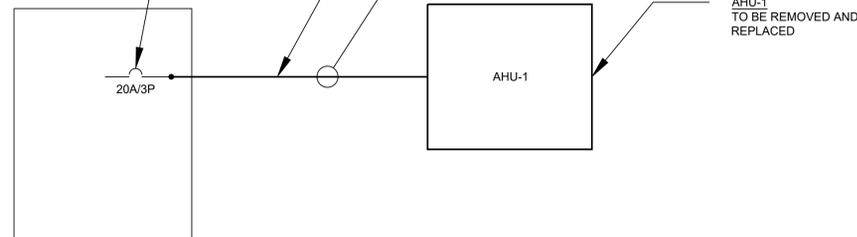
PRO SHOP
PANEL

RE-USE
EXISTING
CIRCUIT
BREAKER

REMOVE AND
REPLACE EXISTING
BRANCH CIRCUIT

3#12
1#12 GND
3/4" C

AHU-1
TO BE REMOVED AND
REPLACED

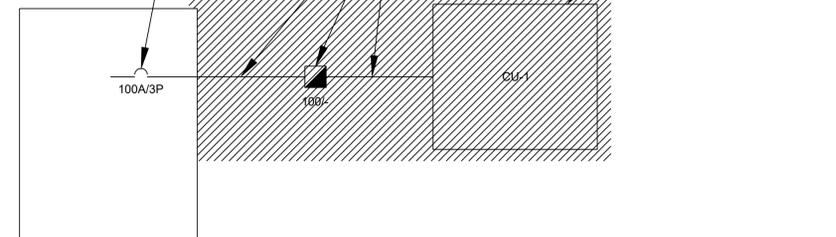


BOGEY'S RESTAURANT
SUBPANEL
100A, 120/208V, 3φ 4W

EXISTING
BREAKER TO
REMAIN AS
SPARE

DEMOLISH EXISTING
100A FEEDER AND
DISCONNECT TO
EXISTING CU-1

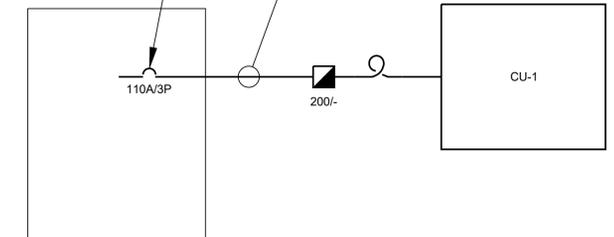
CU-1
TO BE REMOVED AND
REPLACED



RESTAURANT PANEL
200A, 120/208V, 3φ 4W

REMOVE EXISTING 100A/3P BREAKER AND REPLACE WITH 110A/3P BREAKER.
MATCH EXISTING MANUFACTURER, TYPE, AND RATING.

3#2
1#6 GND
1-1/2" C



CLUBHOUSE MDP
600A, 120/208V, 3φ 4W

AHU-1 POWER ONE LINE DIAGRAM

SCALE: 1/2" = 1'-0"

CU-1 POWER ONE LINE DIAGRAMS

SCALE: 1/2" = 1'-0"

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& Environmental Services, D.P.C.
The following is paraphrased from the New York
Education Law, Article 145, Section 7209, and Chapter II,
Section 79-1.4, and applies to this drawing. "It is a
violation of this law for any person unless he is acting
under the direction of a licensed professional engineer,
licensed landscape architect or licensed land surveyor to
alter an item in any way, if an item bearing the seal of an
engineer, landscape architect or land surveyor is altered,
the altering engineer, landscape architect or land
surveyor shall affix to the item his seal and the notation
"altered by" followed by his signature and the date of
such alteration and a specific description of the
alteration."



TAMBLIN ENGINEERING, PLLC

PROJECT TITLE: **PHILLIP J ROTELLA GOLF CLUB HVAC REPLACEMENT**

PROJECT LOCATION: **200 THIELLS MT IVY RD, POMONA NY**

CLIENT: **TOWN OF HAVERSTRAW**

DRAWING TITLE: **ELECTRICAL
BASEMENT FLOOR PLAN AND SINGLE LINE DIAGRAMS**

DRAWINGS ISSUED FOR / REVISIONS				BY	CHK	APP	DATE	EDR JOB#
NO	DATE	ISSUED FOR / REVISION		EDR	JSR	GRL	SCALE: 1/2" = 1'-0"	18136
1	09/20/2024	100% FOR CLIENT REVIEW					DRAWN BY: AMC	
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