MECHANICAL GENERAL NOTES

- ALL WORK AND MATERIALS SHALL BE PURCHASED AND INSTALLED IN ACCORDANCE WITH ALL NATIONAL & NEW YORK STATE CODES AND REGULATIONS (AS WELL AS ALL APPLICABLE LOCAL CODES & REGULATIONS). THE CONTRACTOR SHALL BE RESPONSIBLE TO ENSURE THAT ALL HVAC WORK IS PROVIDED AND INSTALLED IN STRICT ACCORDANCE WITH SEISMIC REQUIREMENTS.
- . DO NOT SCALE FROM THESE DRAWINGS.
- THE EXACT MOUNTING HEIGHTS AND LOCATIONS OF ALL HVAC EQUIPMENT SHALL BE FIELD VERIFIED AND COORDINATED WITH ALL OTHER MECHANICAL. ELECTRICAL, PLUMBING, FIRE SPRINKLER, ARCHITECTURAL AND STRUCTURAL SYSTEMS. DURING SHOP DRAWINGS SUBMISSIONS, SHOW ALL MOUNTING HEIGHTS OF DUCTWORK, UNITS, ETC.
- VERIFY ALL EQUIPMENT VOLTAGES PRIOR TO ORDERING EQUIPMENT.
- CONTRACTOR SHALL PROVIDE DISCONNECT SWITCHES FOR ALL HVAC EQUIPMENT INCLUDING WEATHERPROOF UNITS AS REQUIRED, UNLESS UNITS ARE SPECIFIED WITH FACTORY MOUNTED & INSTALLED DISCONNECT SWITCHES.
- . PROVIDE PHASE LOSS PROTECTION FOR ALL POLY-PHASE MOTOR DEVICES.
- DUCTWORK SHALL BE CONSTRUCTED OF GALVANIZED SHEET STEEL IN STRICT COMPLIANCE WITH THE LATEST EDITION OF THE ASHRAE, NFPA, AND SMACNA GUIDE RECOMMENDATIONS. ALL DUCTS TO HAVE PITTSBURGH TYPE LOCK FOR LONGITUDINAL SEAMS AND DRIVE SLIP / "S" SLIP FOR TRANSVERSE JOINTS. "DUCT-MATE" JOINT SYSTEM IS ACCEPTABLE IN LIEU OF PRIOR SEAM SYSTEMS. SIZES AS SHOWN INDICATE INSIDE CLEAR DIMENSIONS OF THE AIR PASSAGE. DUCTWORK SHALL BE FULLY INSULATED AS PER APPLICABLE CODES AND WRITTEN SPECIFICATIONS.
- DUCT SIZES MUST BE VERIFIED FOR CLEARANCES AT THE JOB SITE PRIOR TO FABRICATION. DIMENSIONS MAY BE CHANGED TO ACCOMMODATE CONSTRUCTION AS LONG AS EFFECTIVE CROSS-SECTIONAL AREA IS MAINTAINED. DUCT TRANSITIONS SHALL BE CONSTRUCTED WITH A SLOPE OF 1" TO 4". ALL DEVIATIONS FROM ORIGINAL CONTRACT DRAWINGS SHALL BE REVIEWED BY ENGINEER DURING THE SHOP DRAWING PROCESS.
- PROVIDE ELBOWS OR TEES WITH TURNING VANES FOR ALL CHANGES IN DUCT DIRECTION AND SPLITTER DAMPERS WITH LOCKING QUADRANTS IN ALL TEES.
- 10. PROVIDE MANUAL BALANCING DAMPERS AS REQUIRED TO PROPERLY BALANCE EACH INDIVIDUAL AIR DISTRIBUTION SYSTEM. IF THE LOCATION OF THE BALANCING DAMPER IS NOT DEFINED ON THE DRAWINGS, THE FOLLOWING MINIMUMS STANDARDS SHALL GOVERN. ALL SUPPLY, RETURN, AND EXHAUST MAIN BRANCHES FROM TRUNKS, EACH SPLIT AND ALL SUB- BRANCHES FROM MAIN SHALL INCORPORATE BALANCING DAMPERS.
- 1. PROVIDE FLEXIBLE CONNECTORS AT ALL DUCT CONNECTIONS TO VIBRATING EQUIPMENT. THESE CONNECTORS SHALL BE INSTALLED IN CLOSE PROXIMITY TO SUCH EQUIPMENT.
- 12. PROVIDE FIRE DAMPERS WITH RATED ACCESS DOORS AT ALL DUCT PENETRATIONS THROUGH FIRE RATED WALLS, SMOKE AND FIRE STOPPING, SHAFT, FLOORS, RATED CEILINGS AND PARTITIONS AS REQUIRED TO MAINTAIN ARCHITECTURAL FIRE RATINGS. REFER TO THE ARCHITECTURAL PLANS AND SPECIFICATIONS FOR LOCATIONS AND FIRE RATING REQUIREMENTS. CONTRACTOR MUST FULLY REVIEW ALL ARCHITECTURAL AND ENGINEERING DRAWINGS AND VISIT THE SITE PRIOR TO SUBMITTING THE BID. NO EXTRAS WILL BE ALLOWED.
- 13. ALL ACCESS DOORS REQUIRED IN GENERAL CONSTRUCTION ARE TO BE PROVIDED AND INSTALLED BY THE GENERAL CONTRACTOR. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO IDENTIFY SIZE, TYPE AND LOCATION OF SUCH DOORS FOR PROPER ACCESS TO ALL CONCEALED HVAC EQUIPMENT, VALVES AND OTHER RELATED EQUIPMENT. THE CONTRACTOR SHALL IDENTIFY THESE REQUIREMENTS ON A COORDINATED SHOP DRAWING PRIOR TO SYSTEM FABRICATION AND INSTALLATION.
- 14. ALL CEILING MOUNTED EQUIPMENT MUST BE SUPPORTED DIRECTLY FROM BUILDING STRUCTURE WITH COMBINATION SPRING AND NEOPRENE-IN-SHEAR HANGERS AND ROD. PROVIDE SUPPLEMENTARY STEEL AS REQUIRED TO ADEQUATELY SUPPORT THE LOAD.
- 15. CONTRACTOR MUST CONTRACT AN INDEPENDENT NEBB CERTIFIED AIR BALANCING & TESTING COMPANY TO PERFORM THE AIR BALANCING WORK AND ASSOCIATED SYSTEM AIR BALANCING REPORT. ALL WORK SHALL BE PERFORMED IN STRICT COMPLIANCE WITH ALL APPLICABLE CODES. REGULATIONS, PLANS AND WRITTEN SPECIFICATIONS. SUBMIT THE FINAL AIR BALANCE REPORT TO THE ENGINEER FOR REVIEW AND APPROVAL PRIOR TO SUBSTANTIAL COMPLETION OF THE PROJECT, AS DETERMINED BY THE G.C. AND OWNER/CLIENT. THE AIR BALANCE REPORT MUST INCLUDE ALL SUPPLY. RETURN. & EXHAUST AIR TERMINALS. FRESH AIR (OUTSIDE AIR) INTAKE AND VENTILATION EXHAUST CFM RATES FOR ALL UNITS. ALSO INCLUDE ACTUAL SUPPLY & RETURN AIR VELOCITY & STATIC PRESSURE READINGS ALONG WITH ALL MOTOR AMPERAGES FOR ALL UNITS.
- 16. EXISTING AIR RATES AT 100% MOTOR SPEED SHALL REMAIN UNCHANGED AFTER MOTOR REPLACEMENTS/VFD INSTALLATIONS. MEASURE AND RECORD AIRFLOWS OF ALL AIRSIDE EQUIPMENT BOTH PRIOR TO WORK AND SUBSEQUENT TO COMPLETION OF WORK. SUBMIT EXISTING SURVEY REPORT TO ENGINEER PRIOR TO COMMENCING ANY WORK AND SUBMIT FINAL TESTING REPORT TO ENGINEER FOR REVIEW.
- WHERE FAN MOTOR HORSEPOWER AND FRAME SIZE ARE CHANGING, NEW MOTOR SLIDE BASES AND NEW SHAFT BUSHINGS FOR V-BELT SHEAVES ARE REQUIRED. WHERE PUMP MOTOR HORSEPOWER AND FRAME SIZE ARE CHANGING, NEW SHAFT COUPLINGS AND MODIFIED RISE BLOCKS UNDER THE MOTORS ARE REQUIRED. MOTOR HORSEPOWER AND FRAME SIZE CHANGES ARE INDICATED ON THE MOTOR SCHEDULE .
- 18. CONTRACTOR IS TO INCLUDE IN THEIR BID ALL LOW VOLTAGE CONTROL WIRING, THERMOSTATS, RELAYS, TRANSFORMERS, STARTERS ETC FOR A COMPLETE OPERATING CONTROL SYSTEM AS DESCRIBED IN THE SEQUENCE OF OPERATIONS. PROVIDE LINE VOLTAGE CONTROLS FOR EXHAUST FANS CONTROLLED FROM LIGHT SWITCH AND THERMOSTATS. PROVIDE ALL CONTROL WIRING CONDUIT FOR IN THE AREAS THAT DO NOT HAVE DROPPED CEILINGS. IN AREAS OF DROPPED CEILING PLENUM RATED CONTROL WIRING CAN BE RUN EXPOSED ABOVE CEILING.
- 19. RIGGING TO BE SCHEDULED/COORDINATED WITH OWNER REP.
- 20. COORDINATE EXACT LOCATIONS AND VERTICAL ELEVATIONS WITH THE ARCHITECT AND FIELD VERIFICATION.
- 21. ALL MECHANICAL EQUIPMENT SHALL BE INSTALLED PER MANUFACTURER'S REQUIREMENTS/SPECIFICATIONS.
- 22. ALL MECHANICAL EQUIPMENT SHALL BE MOUNTED ON MINIMUM 6" HIGH CONCRETE PAD UNLESS OTHERWISE NOTED (PAVER AND CINDER BLOCK IS NOT ACCEPTABLE).

CODE REFERENCE

2015 NEW YORK STATE BUILDING CODE 2015 NEW YORK STATE MECHANICAL CODE 2020 NEW YORK STATE ENERGY CONSERVATION CODE

MECHANICAL DEMOLITION NOTES

- CONTRACTOR SHALL BE RESPONSIBLE FOR DEMOLITION OF MECHANICAL EQUIPMENT AND MATERIAL RELATING TO THEIR RESPECTIVE TRADE.
- THE CONTRACTOR SHALL REMOVE. RELOCATE. REPLACE, ADJUST, ADAPT AND MODIFY EXISTING EQUIPMENT AND/OR SYSTEMS AS REQUIRED WHEN SUCH WORK IS UNCOVERED AND FOUND TO INTERFERE WITH COMPLETION OF WORK IN THIS CONTRACT OR OTHER CONTRACT WORK.
- EXECUTE THE DEMOLITION IN CAREFUL AND ORDERLY MANNER WITH THE LEAST POSSIBLE DISTURBANCE TO THE PUBLIC, EGRESS OR THE FUNCTIONING OF THE EXISTING BUILDING.
- TAKE NECESSARY PRECAUTIONS TO PREVENT DUST AND DIRT FROM RISING BY WETTING DEMOLISHED DEBRIS. EXCESSIVE USE OF WATER WILL NOT BE PERMITTED.
- PRIOR TO DEMOLITION, CONTRACTOR SHALL REVIEW WITH OWNER ALL MATERIALS TO BE REMOVED, SHOULD THE OWNER WANT TO KEEP ANY MATERIALS THE CONTRACTOR SHALL REMOVE AND DELIVER THE PARTS TO THE OWNER ON THE SITE WHERE SO DIRECTED. OTHERWISE ALL DEMOLISHED OR REMOVED MATERIALS SHALL BECOME THE PROPERTY OF THE CONTRACTOR AND SHALL BE REMOVED FROM THE SITE AND BE DISPOSED OF IN A LEGAL MANNER.
- DEMOLITION SHALL INCLUDE REMOVAL OF ALL PARTS AND PIECES IN THEIR ENTIRETY BACK TO POINTS INDICATED OR IF NOT INDICATED BACK TO THEIR POINT OF SOURCE.
- WHERE CONDITIONS PROHIBIT TOTAL REMOVAL OF THE WORK, THE REMAINING PORTION SHALL BE CUT FLUSH WITH THE SURROUNDING SURFACE AND BE CAPPED, PLUGGED OR SEALED AND THE SURROUNDING SURFACE SHALL BE REFINISHED IN AN APPROVED MANNER.
- DO NOT REMOVE EXISTING STRUCTURAL WORK. DO NOT REMOVE OPERATIONAL 8. ELEMENTS AND SAFETY-RELATED COMPONENTS IN A MANNER RESULTING IN A REDUCTION OF CAPACITIES TO PERFORM IN THE MANNER INTENDED OR RESULTING IN DECREASED OPERATIONAL LIFE, INCREASED MAINTENANCE, OR DECREASED SAFETY.
- REMOVALS, DISCONNECTIONS, AND RELOCATIONS SHALL BE PERFORMED BY WORKMEN SKILLED IN THE TRADE INVOLVED AND SHALL BE EMPLOYED BY A CONTRACTOR LICENSED IN THE TRADE INVOLVED. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ACCEPTED TRADE PRACTICES.
- 10. PROVIDE ADEQUATE TEMPORARY SUPPORT FOR WORK TO REMAIN. TO PREVENT FAILURE. DO NOT ENDANGER OTHER WORK.
- PROTECTION: PROVIDE ADEQUATE PROTECTION WHERE REQUIRED FOR THE PRESENT BUILDING AND ITS CONTENTS. TEMPORARY DUSTPROOF BARRIERS AND BARRICADES SHALL BE ERECTED WHERE REQUIRED FOR PROTECTION OF PERSONNEL, PROTECTION FROM DUST AND DIRT, FOR SECURITY, FIRE AND WEATHER PROTECTIVE REASONS.
- 12. CONTRACTOR SHALL TAKE EVERY PRECAUTION AGAINST FIRE BY EMPLOYING FIRE DEPARTMENT TYPE HOSES AND PORTABLE FIRE EXTINGUISHERS AS REQUIRED BY OSHA AND/OR THE OWNER'S INSURANCE UNDERWRITER.
- 13. BEFORE STARTING DEMOLITION OPERATIONS, PROVIDE THE NECESSARY PROTECTIVE DEVICES, WHERE REQUIRED, AND IN STRICT ACCORDANCE WITH OSHA RULES AND REGULATIONS.
- 14. USE TEMPORARY ENCLOSURES, OR OTHER SUITABLE METHODS TO LIMIT DUST AND DIRT RISING AND SCATTERING TO LOWEST PRACTICAL LEVEL. COMPLY WITH GOVERNING REGULATIONS PERTAINING TO ENVIRONMENTAL PROTECTION.
- 15. ALL EXISTING EQUIPMENT REQUIRED TO BE REUSED SHALL BE CLEANED, RECONDITIONED, CALIBRATED AND ADJUSTED. IN ALL INSTANCES WHERE CONTRACTOR FINDS THAT EXISTING EQUIPMENT IS DEFECTIVE TO THE POINT WHERE IT CANNOT BE PROPERLY RESTORED AND WILL NOT OPERATE PROPERLY. HE SHALL REPORT THE SPECIFIC INSTRUMENTS OR EQUIPMENT TO THE ARCHITECT/ENGINEER FOR DIRECTIONS.
- 16. FIELD VERIFY DEMOLITION REQUIREMENTS AND EXISTING CONDITIONS. DEMOLITION NOTES ARE INDICATED IN NOTE FORM.
- 17. CONTRACTOR SHALL ESTABLISH A PATH OF TRAVEL AND TIME SCHEDULE FOR THE REMOVAL OF ALL DEBRIS AND WASTE. AND HAVE THIS APPROVED BY OWNE CONTRACTOR IS TO ENSURE THAT ALL CORRIDORS AND PUBLIC AREAS BE KEPT FREE OF OBSTRUCTIONS, DEBRIS, AND ARE TO BE BROOM SWEPT CLEAN AT ALL TIMES.
- 18. CONTRACTOR SHALL VISIT THE SITE AND BECOME INFORMED AS TO THE CONDITION OF THE PREMISES AND THE EXTENT AND CHARACTER OF WORK REQUIRED. NO ADDITIONAL COMPENSATION WILL BE APPROVED DUE TO FIELD CONDITIONS.

SCOPE OF WORK

DEMOLITION

- DISCONNECT EXISTING SUPPLY GRILLES AND DUCTWORK SERVING THE S FRONTS
- RELOCATE ONE (1) EXISTING EXHAUST FAN, DEMOLISH ASSOCIATED LOUVER 2 ASSOCIATED DUCTWORK AS INDICATED IN THE EVENT SPACE PLANS
- REMOVE EXISTING TWO (2) HOT WATER CEILING-HUNG UNIT HEATERS AND F AS INDICATED IN THE PLANS.

CONSTRUCTION

- PROVIDE TWO (2) NEW OUTDOOR CONDENSERS (CU-1 & CU-2) AND MOUN CONCRETE PADS AT LOCATIONS INDICATED.
- PROVIDE TEN (10) NEW INDOOR CEILING-HUNG FAN COIL UNITS AND FIVE (5) INDOOR CEILING CASSETTE UNITS. PROVIDE REFRIGERANT PIPING DUCTWORK INDICATED. PROVIDE REFRIGERANT TAKE-OFF BRANCH FOR CEN VENDOR SPACE AIR HANDLING UNITS AS INDICATED ON PLANS
- 3 PROVIDE TEN (10) NEW WALL-MOUNTED RECESSED HOT WATER CONVECTOR AS INDICATED
- PROVIDE NEW ENERGY RECOVERY VENTILATOR (ERV), LOUVERS, DAMPERS, ASSOCIATED DUCTWORK AS INDICATED.





		-	
••••••	ALTERATION OR S DOCUMENT IS A		
VIOLATION OF SEC	CTION 7209 OF THE		
NEW YORK STATE	EDUCATION LAW.		
IN CHARGE OF	FU		
CHECKED BY	СА		
MADE BY	NK	REVISION NUMBER	DATE

SY	MBOL LIST
IDENTIFIER	DESCRIPTION
2	
<i>\$+++++++</i> \$	EXISTING DUCTWORK OR PIPING TO BE REMOVED
22	EXISTING DUCTWORK OR PIPING TO REMAIN
2	HEAT TRACE PIPE
24X12 5 24X12 5 24X12 5 5	DOUBLE-LINE AND SINGLE-LINE RECTANGULAR DUCT, FIRST NUMBER INDICATES SIDE IN VIEW IN INCHES, SECOND NUMBER INDICATES SIDE IN DEPTH IN INCHES
	REGULAR SUPPLY AIR DUCT (UP AND DOWN)
	REGULAR RETURN AIR DUCT (UP AND DOWN)
	REGULAR EXHAUST AIR DUCT (UP AND DOWN)
	REGULAR OUTSIDE AIR DUCT (UP AND DOWN)
•	FIELD CONNECT NEW TO EXISTING
	FIELD DISCONNECT
	VOLUME DAMPER
- <u>5</u>	MOTOR OPERATED DAMPER
XXX XX	EQUIPMENT TAG
XXX X-XXX	— DETAIL TAG/CALL OUT TAG — MECHANICAL SHEET NUMBER
T	THERMOSTAT
	EXHAUST GRILLE
R#	REFERENCE CONSTRUCTION OR DEMOLITION REFERENCE NOTES

HVA	C ABBREVIATIONS
IDENTIFIER	DESCRIPTION
AC	DIRECT EXPANSION AIR CONDITION UNIT
AU	AIR HANDLING UNIT
BHP	BREAK HORSE POWER
BLDG.	BUILDING
CFM	CUBIC FEET PER MINUTE
CONC.	CONCRETE
COND.	CONDENSATE
CU	CONDENSING UNIT
DB	DRY BULB
(E)	EXISTING TO REMAIN
ĒÁ	EXHAUST AIR
EF	EXHAUST FAN
EG	EXHAUST GRILLE
ERV	ENERGY RECOVERY VENTILATOR
ESP	EXTERNAL STATIC PRESSURE
EXT.	EXTERIOR
FAI	FRESH AIR INTAKE
FCU	FAN COIL UNIT
FRM	FROM
GPM	GALLONS PER MINUTE
HP	HORSE POWER
HW	HOT WATER
HWR	HOT WATER RETURN
HWS	HOT WATER SUPPLY
Hz	HERTZ
IU	
L LIQ.	LOUVER
MAX.	MAXIMUM
MBH	THOUSAND BTU PER HOUR
MIN.	MINIMUM
PH	PHASE
(R)	REPLACE EXISTING
RA	RETURN AIR
 DEE	BEEDIOEDANT

REF.

SA

SD

TYP.

VIF

UH W.C. REFRIGERANT

SUPPLY AIR

TYPICAL

VOLTS

SUPPLY DIFFUSER

VERIFY IN FIELD

WATER COLUMN

UNIT HEATER

OUTDOOR AIR VENTILATION SCHEDULE

	SPACE DETAILS MECH CODE REQUIREMENTS (1)						DES	DESIGN			
ROOM	AREA (FT ²)	ROOM TYPE	MAX PERSON PER 1000 SQ FT	# PEOPLE	# OF FIXTURES	OA / SQ FT	OA PER PERSON	NET OA	NET EA (2) (CFM)	EA (CFM)	OA(CFM)
S101	6500	AUDITORIUM	66.67	433	-	0.06	5	2557	-	1,950-2,560	1,950-2,56
S102	230	STORE FRONT	-	2	-	0.12	7.5	43	-	60	60
S103	230	STORE FRONT	-	2	-	0.12	7.5	43	-	60	60
S104	230	STORE FRONT	-	2	-	0.12	7.5	43	-	60	60
S105	690	STORE FRONT	-	5	-	0.12	7.5	120	-	150	150
S106	690	STORE FRONT	-	5	-	0.12	7.5	120	-	150	150
S107	575	STORE FRONT	-	5	1_1	0.12	7.5	107	-	120	120
132	220	TOILET	-	-	4	-	-	-	200	250	-
134	220	TOILET	-	-	4	- :	-	-	200	250	-
135	50	TOILET	-	-	1	_	21	-	50	75	-
136	50	IT CLOSET	-	-	-	_	-	-	-	50	-
139	50	TOILET	-	-	1	-	-1	-	50	50	-
NOTE	S:										•
1. NE\	VYORK STAT	E MECHANICAL CO	DE								
	CFM PER FIXT	URE									

ENERGY CODE COMPLIANCE - NY STATE 2020

STATEMENT OF COMPLIANCE - COMMERCIAL BUILDINGS

TABLE 1: ENERGY CODE ANALYSIS TABLE FOR MECHANICAL SYSTEMS

	(PER 2020 NYS ENERGY CODE)						
	ITE	M DESCRIPTION	PROPOSED VALUE	CODE PRECRIBED VALUE AND CITATION	CITATION		
	UNIT TAG EQUIPMENT TYPE				CHANON	SUPPORTING DOCUMENTATION	
HVAC EQUIPMENT	CU-2	SPLIT-SYSTEM HEAT PUMP (192,000 BTU)	COP = 4.04 / EER = 11.2	COP = 3.2 / EER = 10.6 (>135,000 BTU < 240,000BTU)	C403.2.3(2)	MECHANICAL SCHEDULES	
PERFORMANCE	CU-2	SPLIT-SYSTEM HEAT PUMP (192,000 BTU)	COP = 4.06 / EER = 13.0	COP = 3.2 / EER = 10.6 (>135,000 BTU < 240,000BTU)	C403.2.3(2)	MECHANICAL SCHEDULES	
HVAC SYSTEM CONTROLS ALL UNITS THERMOSTATIC CONTROLS		THERMOSTATIC CONTROLS	DIGITAL THERMOSTATS	THERMOSTATIC CONTROLS FOR HVAC SYSTEM	C403.2.6	MECHANICAL SCHEDULES AND PLANS	
ENERGY RECOVERY ERV-1 ENERGY RECOVERY VENTILLATOR		ENERGY RECOVERY VENTILLATOR	ENTHALPY % (HEATING = 64%; COOLING 50%)	ENTALPHY ≤ 50%	C403.7.4	MECHANICAL SCHEDULES	
SHUTOFF DAMPERS		JTOFF DAMPERS	MOTORIZED DAMPER INSTALLED AT EXHAUST OPENINGS	MOTORIZED DAMPER INSTALLED AT QA SUPPLY AND EXHAUST OPENINGS	C403.2.4.4.2	MECHANICAL SCHEDULES AND PLANS	
	D	UCT LEAKAGE	SMACNA HVAC DUCT LEAKAGE TEST	SMACNA HVAC DUCT LEAKAGE TEST	PER C403	MECHANICAL DWGS. & SPECS	

TABLE 2: ENERGY CODE COMPLIANCE INSPECTIONS FOR MECHANICAL SYSTEMS

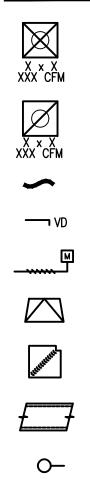
		(IIB - MECHANICAL AND SERVICE WATER HEATING INSPECTIONS)					
	INSPECTION TEST	FREQUENCY	REFERENCE STANDARDS	INSPECTION DESCRIPTION	ECC CITATION		
IIB2	SHUT-OFF DAMPERS	AS REQUIRED DURING INSTALLATION	APPROVED CONSTRUCTION DOCUMENTS	DAMPERS FOR STAIR AND ELEVATOR SHAFT VENTS AND OTHER OUTDOOR AR INTAKES AND EXHAUST OPENINGS INTEGRAL TO THE BUILDING ENVELOPE SHALL BE VISUALLY INSPECTED TO VERIFY THAT SUCH DAMPERS, EXCEPT WHERE PERMITTED TO BE GRAVITY DAMPERS, COMPLY WITH APPROVED CONSTRUCTION DRAWINGS. MANUFACTURER'S LITERATURE SHALL BE REVIEWED TO VERIFY THAT THE PRODUCT HAS BEEN TESTED AND FOUND TO MEET THE STANDARD.	NYSECC C403.2.4.4, OR ASHRAE 90.1-6.4.3.4		
IIB3	HVAC AND SERVICE WATER HEATING EQUIPMENT	PRIOR TO FINAL MECHANICAL AND CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS	EQUIPMENT SIZING, EFFICIENCIES AND OTHER PERFORMANCE FACTORS OF ALL MAJOR EQUIPMENT UNITS, AS DETERMINED BY THE APPLICANT OF RECORD, AND NO LESS THAN 15% OF MINOR EQUIPMENT UNITS, SHALL BE VERIFIED BY VISUAL INSPECTION AND, WHERE NECESSARY, REVIEW OF MANUFACTURER'S DATA. POOL HEATERS AND COVERS SHALL BE VERIFIED BY VISUAL INSPECTION	NYSECC C403.2, C404.2, C404.7, C406.2		
B4	HVAC AND SERVICE WATER HEATING SYSTEM CONTROLS	AFTER INSTALLATION AND PRIOR TO FINAL ELECTRICAL AND CONSTRUCTION INSPECTION, EXCEPT THAT FOR CONTROLS WITH SEASONALLY DEPENDENT FUNCTIONALITY, SUCH TESTING SHALL BE PERFORMED BEFORE SIGN-OFF FOR ISSUANCE OF A FINAL CERTIFICATE OF OCCUPANCY	APPROVED CONSTRUCTION DOCUMENTS INCLUDING CONTROL SYSTEM NARRATIVES	NO LESS THAN 20% OF EACH TYPE OF REQUIRED CONTROLS AND ECONOMIZERS SHALL BE VERIFIED BY VISUAL INSPECTION AND TESTED FOR FUNCTIONALITY AND PROPER OPERATION. SUCH CONTROLS SHALL INCLUDE, BUT ARE NOT LIMITED TO, THERMOSTATIC AND ECONOMIZER CONTROLS	NYSECC C403.2.4, C403.2.5.1, C403.2.11, C403.3, C403.4, C404.3, C404.6, C404.7		
IB6	HVAC DUCT LEAKAGE TESTING	PRIOR TO CLOSING CEILINGS AND WALLS AND PRIOR TO FINAL CONSTRUCTION INSPECTION	APPROVED CONSTRUCTION DOCUMENTS; NYC MECHANICAL CODE	WHERE THE AIR HANDLER AND/OR SOME DUCTWORK IS IN UNCONDITIONED SPACE, DUCT-LEAKAGE TESTING SHALL BE PERFORMED EITHER AFTER ROUGH-IN OR POST- CONSTRUCTION TO ENSURE COMPLIANCE WITH ECC R403.3.3 AND R403.3.4. NOT LESS THAN 20% OF SUCH DUCTWORK SHALL BE TESTED	NYSECC C403		

	RECORD DRAWIN	IG CERTIFICATION	WESICHESIER COUNIY, NEW YORK	CONTRACT SHEET NUMBER NUMBER
	AS BUILT – CHANGES AS NOTED AS BUILT – NO CHANGES		DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING	20-504 M-001 SHEET NO. 91 OF 201
Image:	CONTRACTOR NAME	PROJECT COORDINATOR NAME	PLAYLAND PARK, RYE, NEW YORK	SCALE: DATE: NOVEMBER 10, 2020 DPW FILE NO. REV.
E MADE APP'D REVISION	SIGNATURE DATE	SIGNATURE DATE	MECHANICAL NOTES, SYMBOLS & LEGENDS — SOUTH EVENT SPACE	1-19-M-448

NEW YORK STATE COMPLIANCE STATEMENT:

TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGEMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.

LEGENDS



SUPPLY DIFFUSER

RETURN GRILLE

FLEXIBLE DUCT, MAX LENGTH = 36"

VOLUME DAMPER

MOTORIZED DAMPER

DUCT TRANSITION

SQUARE ELBOW W/ TURNING VANES

ACOUSTICALLY LINED DUCT

PIPE TURNS UP

G-PIPE TURNS DOWN

ABBREVIATIONS

AHU-1-1	AIR HANDLING UNIT - FLOOR # - UNIT DESIGNATIO
AHU	AIR HANDLING UNIT
AD	ACCESS DOOR
AF	AIR FILTER
AFF	ABOVE FINISHED FLOOR
AL	ACOUSTIC LINING
&	AND
BLDG	BUILDING
BG	BOTTOM GRILLE
BDD	BACK-DRAFT DAMPER
CFM	CUBIC FEET PER MINUTE
CD	CEILING DIFFUSER - SUPPLY AIR
CG	CEILING GRILLE - RETURN AIR
СО	CLEAN-OUT DOOR
EXIST, (E)	EXISTING
EXH	EXHAUST
EF	EXHAUST FAN
FC	FLEXIBLE CONNECTION
FD	FIRE DAMPER
FSD	COMBINATION FIRE/SMOKE DAMPER
FPM	FEET PER MINUTE
GPM	GALLONS PER MINUTE
HP	HORSEPOWER
I.J.S.	IN JOIST SPACE
KE/KX	KITCHEN EXHAUST
KEF/KXF	KITCHEN EXHAUST FAN
MD	MOTORIZED DAMPER
NTS	NOT TO SCALE
OAI	OUTSIDE AIR INTAKE
RA	RETURN AIR
RLL	REFRIGERANT LINE (LIQUID)
RLS	REFRIGERANT LINE (SUCTION)
SA	SUPPLY AIR
TE	TOILET EXHAUST
TEF	TOILET EXHAUST FAN
TYP	TYPICAL
TR	TOP REGISTER
TG	TOP GRILLE
т	THERMOSTAT
UON	UNLESS OTHERWISE NOTED
VD	VOLUME DAMPER
WMS	WIRE MESH SCREEN
#	DIAMETER

GENERAL HVAC NOTES:

- 1. ALL EQUIPMENT BEING INSTALLED SHALL BE UL LISTED AND SHALL CONFORM TO ALL REGULATIONS, APPLICABLE STATE OR LOCAL COUNTY CODES.
- FINISHES, ETC. THAT ARE DAMAGED DURING THE COURSE OF THIS WORK. ALL FINISHES SHALL MATCH EXISTING IN ALL RESPECTS.
- 3. DRAWINGS ARE DIAGRAMMATIC AND INDICATE GENERAL INTENT OR ARRANGEMENT OF SYSTEM(S). FURNISH AND INSTALL ALL COMPONENTS NEEDED WHETHER INDICATED OR NOT TO PROVIDE A COMPLETE AND OPERATING SYSTEM.
- 4. CONTRACTOR SHALL BE RESPONSIBLE FOR ALL CONTROL WIRING NECESSARY TO ACCOMPLISH THE PROPER EQUIPMENT "SEQUENCE OF OPERATIONS". CONTRACTOR SHALL PROVIDE AND INSTALL ALL LABOR AND MATERIALS TO ACCOMPLISH THIS. ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR ALL POWER WIRING TO NEW EQUIPMENT. DISCONNECT SWITCH BY MECHANICAL CONTRACTOR.
- 5. CONTRACTOR TO VERIFY ALL DIMENSIONS, INCLUDING CLEARANCES REQUIRED BY OTHER TRADES, AND NOTIFY THE OWNER/ARCHITECT OF ANY DISCREPANCIES PRIOR TO PROCEEDING WITH THE WORK. ALL DIMENSIONS ARE TO THE FACE OF THE FINISHED SURFACE UNLESS NOTED OTHERWISE. ALL DIMENSIONS TO BE TAKEN FROM ACTUAL BUILDING DIMENSIONS.
- 6. THE CONTRACTOR SHALL COORDINATE HVAC WORK WITH ALL OTHER TRADES. THE ARCHITECTURAL DRAWINGS SHALL TAKE PRECEDENCE OVER ALL OTHER DRAWINGS.
- 7. NEW DUCTWORK AND EQUIPMENT SHALL NOT BE INSTALLED WHERE IT OBSTRUCTS ANY EXISTING OR NEW AREAS THAT REQUIRE ACCESS.
- 8. CONTRACTOR TO PROTECT ALL ADJACENT SURFACES AND EQUIPMENT SUCH AS CEILINGS, WALLS, PIPE INSULATION, WIRING, ETC. DURING ALL PHASES OF HIS WORK. ANY DAMAGE CAUSED BY THE CONTRACTOR, IS TO BE REPAIRED AT HIS SOLE EXPENSE.
- 9. DUCTWORK AND CONSTRUCTION SHALL COMPLY WITH SMACNA STANDARDS AND LATEST BUILDING CODE REQUIREMENTS.
- 10. FIRE SAFING OF ALL PENETRATIONS IS THE RESPONSIBILITY OF THE CONTRACTOR. REFER TO DETAILS

REFRIGERATION SYSTEM NOTES:

- 1. AHU UNITS ARE TESTED IN ACCORDANCE WITH UL207, UL412, UL471 OR 1995
- 2. ENSURE REFRIGERANT PIPING IS PROTECTED FROM DAMAGE THROUGH ALL PHASES OF CONSTRUCTION
- 3. SYSTEM COMPONENTS SHALL BE MAINTAINED TO ENSURE PROPER OPERATING CONDITIONS FREE OF OIL, DIRT, WASTE, CORROSION, DEBRIS OR OTHER ADVERSE CONDITIONS.
- 4. REFRIGERANT ACCESS PORTS SHALL BE PROTECTED BY LOCKING, TAMPER RESISTANT CAPS
- METHOD TO EXPUNGE ALL OXYGEN AND MOISTURE PRIOR TO CHARGING.
- 6. USE ONLY MANUFACTURER APPROVED REFRIGERANTS AND OILS WHERE NECESSARY.
- 7. PROVIDE AND INSTALL SUCTION LINE ACCUMULATORS AS RECOMMENDED BY MANUFACTURER'S INSTALLATION INSTRUCTIONS BASED ON AS-INSTALLED CONFIGURATION.

GENERAL SPECIFICATION NOTES:

SCOPE:

THE INTENT OF THE SPECIFICATIONS AND THE DRAWINGS IS TO PROVIDE A COMPLETE AND FULLY OPERATION MECHANICAL SYSTEM. THE CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, AND EQUIPMENT NECESSARY TO COMPLETE THE MECHANICAL WORK. SITE EXAMINATION:

THE CONTRACTOR SHALL THOROUGHLY EXAMINE ALL AREAS WHERE EQUIPMENT, DUCTWORK, AND PIPING WILL BE INSTALLED AND WILL REPORT ANY CONDITION THAT, IN HIS/HER OPINION, INTERFERES WITH THE PROPER INSTALLATION OF THE MECHANICAL WORK.

STANDARDS:

EQUIPMENT AND MATERIALS SHALL CONFORM WITH THE APPROPRIATE PROVISIONS OF CSA, ULC, ARL, ASME, ASTM, UL, NEMA, ANSI, SMACNA, ASHRAE, NFPA, AS APPLICABLE TO EACH INDIVIDUAL UNIT OR ASSEMBLY.

CODES: ALL WORK SHALL BE PERFORMED IN STRICT ACCORDANCE WITH ALL APPLICABLE STATE AND LOCAL CODES AND ORDINANCES. IN CASE OF CONFLICT BETWEEN THE DRAWINGS AND SPECIFICATIONS AND THE CODES AND ORDINANCES, THE HIGHEST STANDARD SHALL APPLY. THE CONTRACTOR SHALL SATISFY CODE REQUIREMENTS AS A MINIMUM STANDARD WITHOUT ANY COST TO THE OWNER.

PERMITS AND FEES:

OWNER TO PAY FOR INDEPENDENT INSPECTIONS AS NECESSARY TO CERTIFY ALL MECHANICAL WORK. WARRANTY:

THE CONTRACTOR SHALL UNCONDITIONALLY WARRANT ALL WORK TO BE FREE OF DEFECTS IN MATERIAL AND WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR FROM THE DATE OF FINAL ACCEPTANCE BY THE OWNER AND WILL REPAIR OR REPLACE ANY DEFECTIVE WORK PROMPTLY AND WITHOUT CHARGE AND RESTORE ANY OTHER EXISTING WORK DAMAGED IN THE COURSE OF REPAIRING DEFECTIVE MATERIALS AND WORKMANSHIP.

TESTING, ADJUSTING AND BALANCING:

INDEPENDENT AIR BALANCE CONTRACTOR OR QUALIFIED CONTRACTOR SHALL ACCURATELY BALANCE THE AIR AND HYDRONIC (WHERE APPLICABLE) SYSTEMS TO PROVIDE AIR AND WATER QUANTITIES INDICATED ON THE DRAWINGS AND IN THIS SPECIFICATION. BALANCER SHALL BE QUALIFIED FOR TAB WORK PER NEBB OR AABC STANDARDS. SUBMIT TWO (2) COPIES OF THE BALANCE REPORT TO THE ENGINEER AND COMMISSIONING AGENT FOR APPROVAL INCLUDE A COPY OF THE FINAL BALANCE REPORT AS APPROVED BY THE ENGINEER WITH APPLICATION FOR FINAL CONTRACT PAYMENT.





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2. CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR OF ANY EQUIPMENT, ITEMS, SURFACES,

5. ALL REFRIGERANT LINES SHALL BE PURGED WITH DRY NITROGEN OR OTHER MANUFACTURER-APPROVED

BUILDING DEPARTMENT NOTES:

ALL WORK SHALL COMPLY WITH APPLICABLE SECTIONS OF THE INTERNATIONAL BUILDING CODE, AS ADOPTED BY THE STATE OF NEW YORK, AND ALL AMENDMENTS AND RULES AND REGULATIONS OF THE DEPARTMENT OF BUILDINGS TO DATE.

- 1. A TEST WILL BE CONDUCTED UNDER DIRECTION OF A LICENSED PROFESSIONAL ENGINEER OR ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF THE MECHANICAL SYSTEM. THE TEST WILL SHOW COMPLIANCE WITH BUILDING CODE REQUIREMENTS AS OUTLINED IN SECTION [BC 1704].
- 2. THE LICENSED PROFESSIONAL ENGINEER OR ARCHITECT OR OTHER PERSON HAVING NOT LESS THAN FIVE (5) YEARS EXPERIENCE SUPERVISING THE INSTALLATION OF MECHANICAL SYSTEMS AND CONDUCTING SUCH TESTS WILL FILE DOCUMENTATION AND REPORT OF TEST THAT THE SYSTEM COMPLIES WITH THE CONSTRUCTION DOCUMENTS AND APPLICABLE LAWS.
- 3. SPECIAL INSPECTIONS: ALL MECHANICAL SYSTEMS, EQUIPMENT AND MATERIALS INSPECTIONS SHALL BE PERFORMED IN ACCORDANCE WITH SECTION [BC 1704]
- 4. THESE PLANS ARE APPROVED ONLY FOR THE WORK INDICATED ON THE APPLICATION SPECIFICATION SHEET. ALL OTHER MATTERS SHOWN ARE NOT TO BE RELIED UPON OR TO BE CONSIDERED AS EITHER BEING APPROVED OR IN ACCORDANCE WITH APPLICABLE CODES.
- 5. TO THE BEST OF MY KNOWLEDGE, BELIEF AND PROFESSIONAL JUDGMENT, THESE PLANS AND SPECIFICATIONS ARE IN COMPLIANCE WITH THE INTERNATIONAL ENERGY CONSERVATION CODE, AS ADOPTED BY THE STATE OF NEW YORK.

	ENERGY ANALYS	SIS FOR ALTERATION - CLIMATE ZONE 4	
ITEM DESCRIPTION	PROPOSED DESIGN VALUE	CODE PRESCRIPTIVE VALUE: REFERENCE - NYS ECC 2020	DRAWING REFERENCE
AIR CONDITIONING EQUIPMENT	SPECIFIED EQUIPMENT EER = 12.8	MINIMUM EFFICIENCY FOR AIR COOLED AIR CONDITIONERS WITH ≥ 65,000 BTU/H AND < 135,000 BTU/H, EER SHALL BE 11.2 PER TABLE C403.3.2(1)	M-400
HVAC SYSTEM CONTROLS.	SPECIFIED CONTROL: PROGRAMMABLE THERMOSTAT	EACH HEATING AND COOLING SYSTEM SHALL BE PROVIDED WITH THERMOSTATIC CONTROL. (SECTION C403.4.1)	SPECIFICATION 239550
DUCT AND PLENUM INSULATION AND SEALING.	INSULATION R=12 INDICATED WHERE REQUIRED. ALL DUCT JOINTS WILL BE SEALED.	SUPPLY AND RETURN DUCTS SHALL BE INSULATED WITH A MINIMUM OF R-12 INSULATION. (SECTION C403.11.1) JOINTS, SEAMS AND CONNECTIONS SHALL BE SECURELY FASTENED AND SEALED. (SECTION C403.11.2.1)	M-103 SPECIFICATION 232900
OPERATING AND MAINTENANCE MANUAL.	PROVIDE MANUALS	MECHANICAL CONTRACTOR SHALL PROVIDE OWNER WITH OPERATING AND MAINTENANCE MANUAL (SECTION C408.1.1)	SPECIFICATION 230150
AIR SYSTEM BALANCING.	PROVIDE BALANCING DAMPERS	EACH SUPPLY AIR OUTLET AND ZONE TERMINAL DEVICES SHALL BE EQUIPPED WITH BALANCING DAMPER. (SECTION C408.2.2.1)	M-103.00 SPECIFICATION 239100

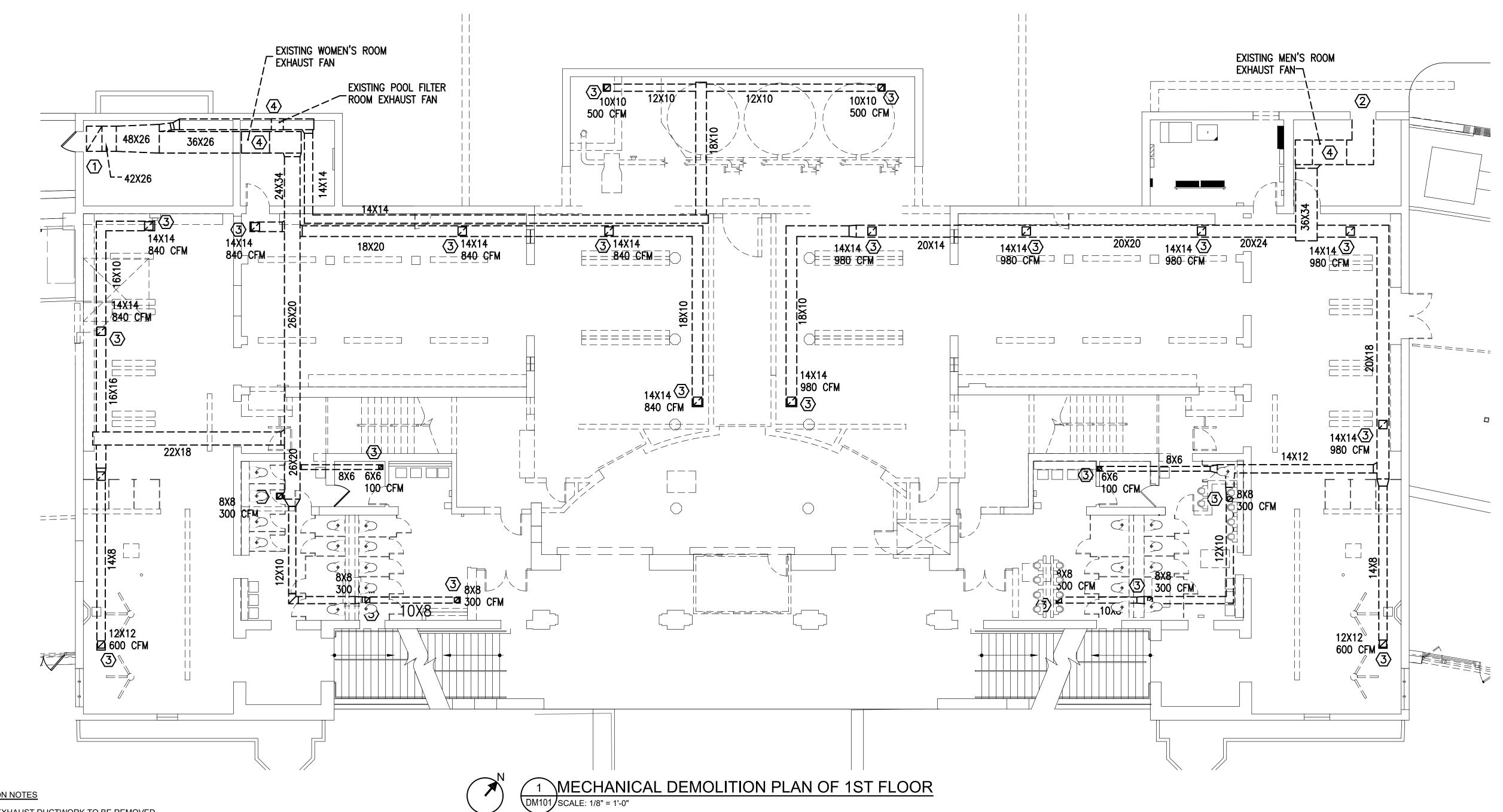
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		RECORD DRAWIN		WESICHESIER COUNIY, NEW YORK	CONTRACT SHEET NUMBER NUMBER
		AS BUILT – CHANGES AS NOTED AS BUILT – NO CHANGES		DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING	20-504 M-002 SHEET NO. 92 OF 201
		CONTRACTOR	PROJECT COORDINATOR		SCALE: AS NOTED DATE: NOVEMBER 10, 2020 DPW FILE NO.
MADE BY	APP'D BY REVISION	SIGNATURE DATE	SIGNATURE DATE	MECHANICAL NOTES, SYMBOLS, & LEGENDS TUNNEL / BATHHOUSE / POOL DECK LEVEL	DPW FILE NO. REV. NO. 1-19-M-449 0

[NY] C106.2.4 MECHANICAL SYSTEM

INSPECTIONS SHALL VERIFY THE INSTALLED HVAC EQUIPMENT FOR THE CORRECT TYPE AND SIZE, CONTROLS, INSULATION, R-VALUES, SYSTEM AND DAMPER AIR LEAKAGE, MINIMUM FAN EFFICIENCY, ENERGY RECOVERY AND ECONOMIZER AS REQUIRED BY THE CODE, APPROVED PLANS AND SPECIFICATIONS.

	SCHEDULE OF PROGRESS INSPECTIONS
CODE REFERENC (ASHRAE 90.1)	E INSPECTION DESCRIPTION
6.4.1.4 6.4.1.5	HVAC EQUIPMENT EFFICIENCY VERIFIED. NON-NAECA HVAC EQUIPMENT LABELED AS MEETING 90.1.
6.4.3.4.2 6.4.3.4.3	OUTDOOR AIR AND EXHAUST SYSTEMS HAVE MOTORIZED DAMPERS THAT AUTOMATICALLY SHUT WHEN NOT IN USE AND MEET MAXIMUM LEAKAGE RATES. CHECK GRAVITY DAMPERS WHERE ALLOWED.
6.4.3.4.4	VENTILATION FANS >0.75 HP HAVE AUTOMATIC CONTROLS TO SHUT OFF FAN WHEN NOT REQUIRED.
6.4.3.8	DEMAND CONTROL VENTILATION PROVIDED FOR SPACES >500 FT2 AND >25 PEOPLE/1000 FT2 OCCUPANT DENSITY AND SERVED BY SYSTEMS WITH AIR SIDE ECONOMIZER, AUTO MODULATING OUTSIDE AIR DAMPER CONTROL, OR DESIGN AIRFLOW >3,000 CFM.
6.5.3.2.1	DX COOLING SYSTEMS >= 75 KBTU/H (>= 65 KBTU/H EFFECTIVE 1/2016) AND CHILLED-WATER AND EVAPORATIVE COOLING FAN MOTOR HP >= 1/4 DESIGNED TO VARY SUPPLY FAN AIRFLOW AS A FUNCTION O LOAD AND COMPLY WITH OPERATIONAL REQUIREMENTS.
6.4.4.1.1	INSULATION EXPOSED TO WEATHER PROTECTED FROM DAMAGE. INSULATION OUTSIDE OF THE CONDITIONED SPACE AND ASSOCIATED WITH COOLING SYSTEMS IS VAPOR RETARDANT.
6.4.4.1.2	HVAC DUCTS AND PLENUMS INSULATED PER TABLE 6.8.2. WHERE DUCTS OR PLENUMS ARE INSTALLED IN OUUNDER A SLAB, VERIFICATION MAY NEED TO OCCUR DURING FOUNDATION INSPECTION.
6.4.4.1.3	HVAC PIPING INSULATION THICKNESS. WHERE PIPING IS INSTALLED IN OR UNDER A SLAB, VERIFICATION MANANEED TO OCCUR DURING FOUNDATION INSPECTION.
6.5.2.3	DEHUMIDIFICATION CONTROLS PROVIDED TO PREVENT REHEATING, RECOOLING, MIXING OF HOT AND COLE AIRSTREAMS OR CONCURRENT HEATING AND COOLING OF THE SAME AIRSTREAM.
	EXCEPTION: CAPABILITY OF FIRST REDUCING SUPPLY AIR VOLUME 50%%% OR LESS OF THE DESIGN RATE OR MINIMUM OUTDOOR AIR VENTILATION, OR PER REGULATORY STANDARD, WHICHEVER IS LARGER, BEFORE COMBINED HEATING/COOLING OCCURS.
6.5.2.5	PREHEAT COILS CONTROLLED TO STOP HEAT OUTPUT WHENEVER MECHANICAL COOLING, INCLUDING ECONOMIZER OPERATION, IS ACTIVE.
6.5.3.6	MOTORS FOR FANS >= 1/12 HP AND < 1 HP ARE ELECTRONICALLY-COMMUTATED MOTORS OR HAVE A MINIMUM MOTOR EFFICIENCY OF 70%%. THESE MOTORS ARE ALSO SPEED ADJUSTABLE FOR EITHER BALANCING OR REMOTE CONTROL. EXCEPTION: MOTORS IN THE AIRSTREAM WITHIN FAN-COILS AND TERMINAL.
6.5.3.7	REQUIRED MINIMUM OUTDOOR AIR RATE IS THE LARGER OF MINIMUM OUTDOOR AIR RATE OR MINIMUM EXHAUST AIR RATE REQUIRED BY STANDARD 62.1, STANDARD 170, OR APPLICABLE CODES OR ACCREDITATION STANDARDS. OUTDOOR AIR VENTILATION SYSTEMS SHALL COMPLY WITH ONE OF THE FOLLOWING: A) DESIGN MINIMUM SYSTEM OUTDOOR AIR PROVIDED < 135% OF THE REQUIRED MINIMUM OUTDOOR AIR RATE, B) DAMPERS,DUCTWORK, AND CONTROLS ALLOW THE SYSTEM TO SUPPLY <= THE REQUIRED MINIMUM OUTDOOR AIR RATE WITH A SINGLE SET-POINT ADJUSTMENT., OR C) SYSTEM INCLUDES EXHAUST AIR ENERGY RECOVERY COMPLYING WITH SECTION 6.5.6.1.
6.5.6.1	EXHAUST AIR ENERGY RECOVERY ON SYSTEMS MEETING TABLES 6.5.6.1-1, AND 6.5.6.1-2.
6.5.7.1	CONDITIONED SUPPLY AIR TO SPACE WITH MECHANICAL EXHAUST <= THE GREATER OF CRITERIA OF SUPPL FLOW, REQUIRED VENTILATION RATE, EXHAUST FLOW MINU THE AVAILABLE TRANSFER AIR (SEE SECTION DETAILS).
6.5.10	DOORS SEPARATING CONDITIONED SPACE FROM THE OUTDOORS HAVE CONTROLS THAT DISABLE/RESET HEATING AND COOLING SYSTEM WHEN OPEN. EXCEPTION: BUILDING ENTRANCES HAVE AUTOMATIC CLOSIN DEVICES.

SCHEDULE OF FINAL INSPECTIONS									
CODE REFERENCE (ASHRAE 90.1)	INSPECTION DESCRIPTION								
6.4.3.1.2	THERMOSTATIC CONTROLS HAVE A 5 °F DEADBAND.								
6.4.3.2	TEMPERATURE CONTROLS HAVE SETPOINT OVERLAP RESTRICTIONS.								
6.4.3.3.1	HVAC SYSTEMS EQUIPPED WITH AT LEAST ONE AUTOMATIC SHUTDOWN CONTROL.								
6.4.3.3.2	SETBACK CONTROLS ALLOW AUTOMATIC RESTART AND TEMPORARY OPERATION AS REQUIRED FOR MAINTENANCE.								
6.4.3.12	AIR ECONOMIZER HAS A FAULT DETECTION AND DIAGNOSTICS SYSTEM.								
6.7.2.1	FURNISHED HVAC AS-BUILT DRAWINGS SUBMITTED WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.								
6.7.2.2	FURNISHED O&M MANUALS FOR HVAC SYSTEMS WITHIN 90 DAYS OF SYSTEM ACCEPTANCE.								
6.7.2.3	AN AIR AND/OR HYDRONIC SYSTEM BALANCING REPORT IS PROVIDED FOR HVAC SYSTEMS SERVING ZONES >5,000 FT2 OF CONDITIONED AREA.								
6.7.2.4	HVAC CONTROL SYSTEMS HAVE BEEN TESTED TO ENSURE PROPER OPERATION, CALIBRATION AND ADJUSTMENT OF CONTROLS.								



DEMOLITION NOTES

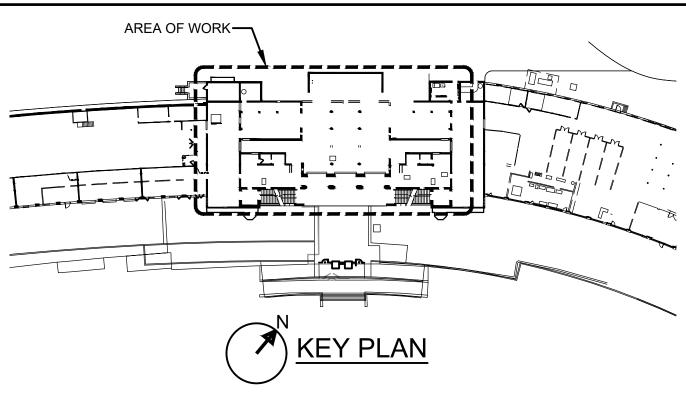
- (1) EXISTING EXHAUST DUCTWORK TO BE REMOVED.
- EXISTING EXHAUST DUCTWORK TO BE REMOVED. PRESERVE EXISTING WALL OPENING AND LOUVER AND PREPARE FOR RECONNECTION.
- EXISTING EXHAUST REGISTER AND ASSOCIATED DUCTWORK TO BE REMOVED.
- EXISTING EXHAUST FAN TO BE REMOVED. COORDINATE WITH ELECTRICAL CONTRACTOR TO DISCONNECT AND MAKE SAFE.

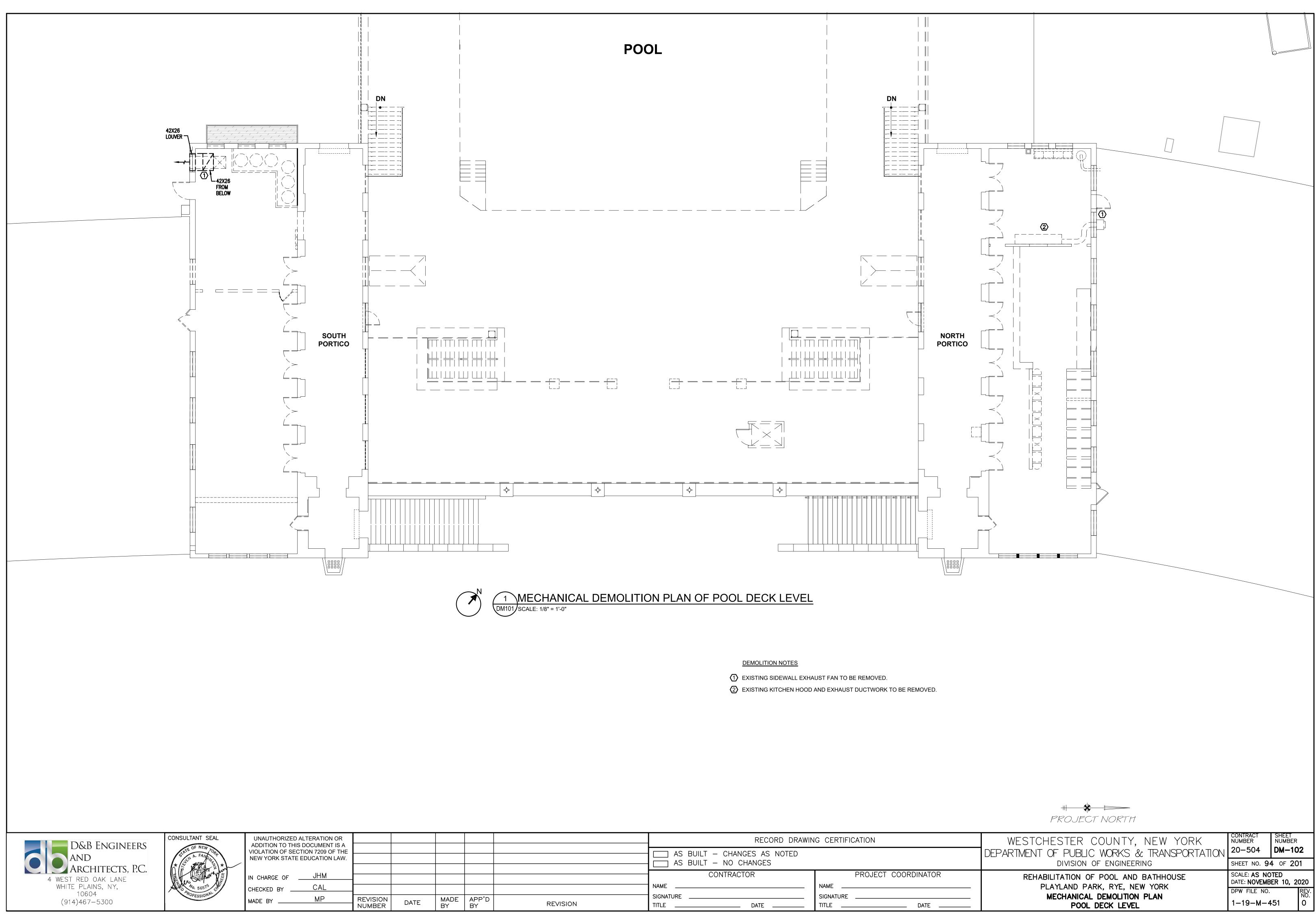


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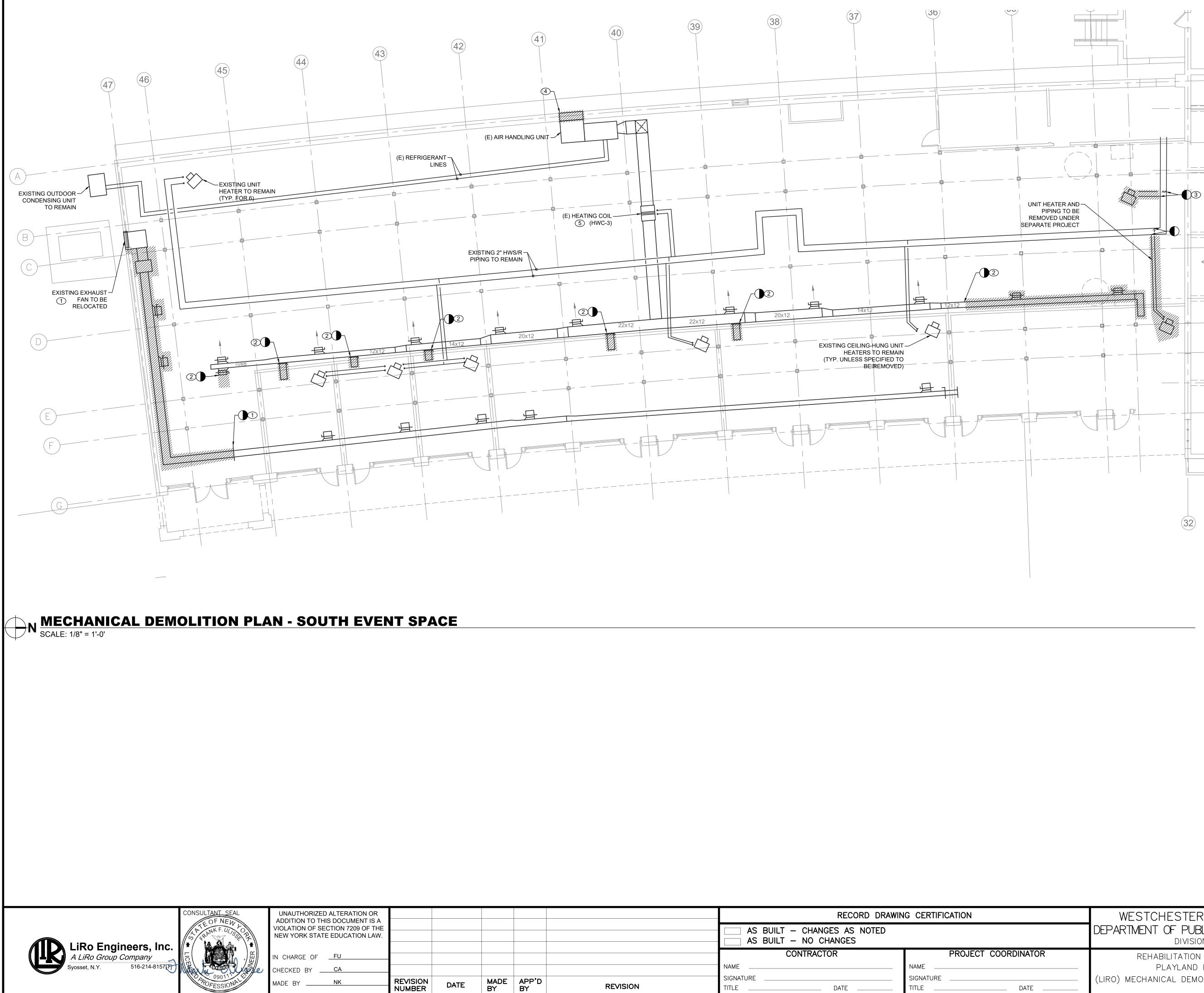
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			CONTRACTOR	PROJECT COORDINATOR	PLAYLAND PARK, RYE, NEW YORK	SCALE: AS NOTED DATE: NOVEMBER DPW FILE NO.	
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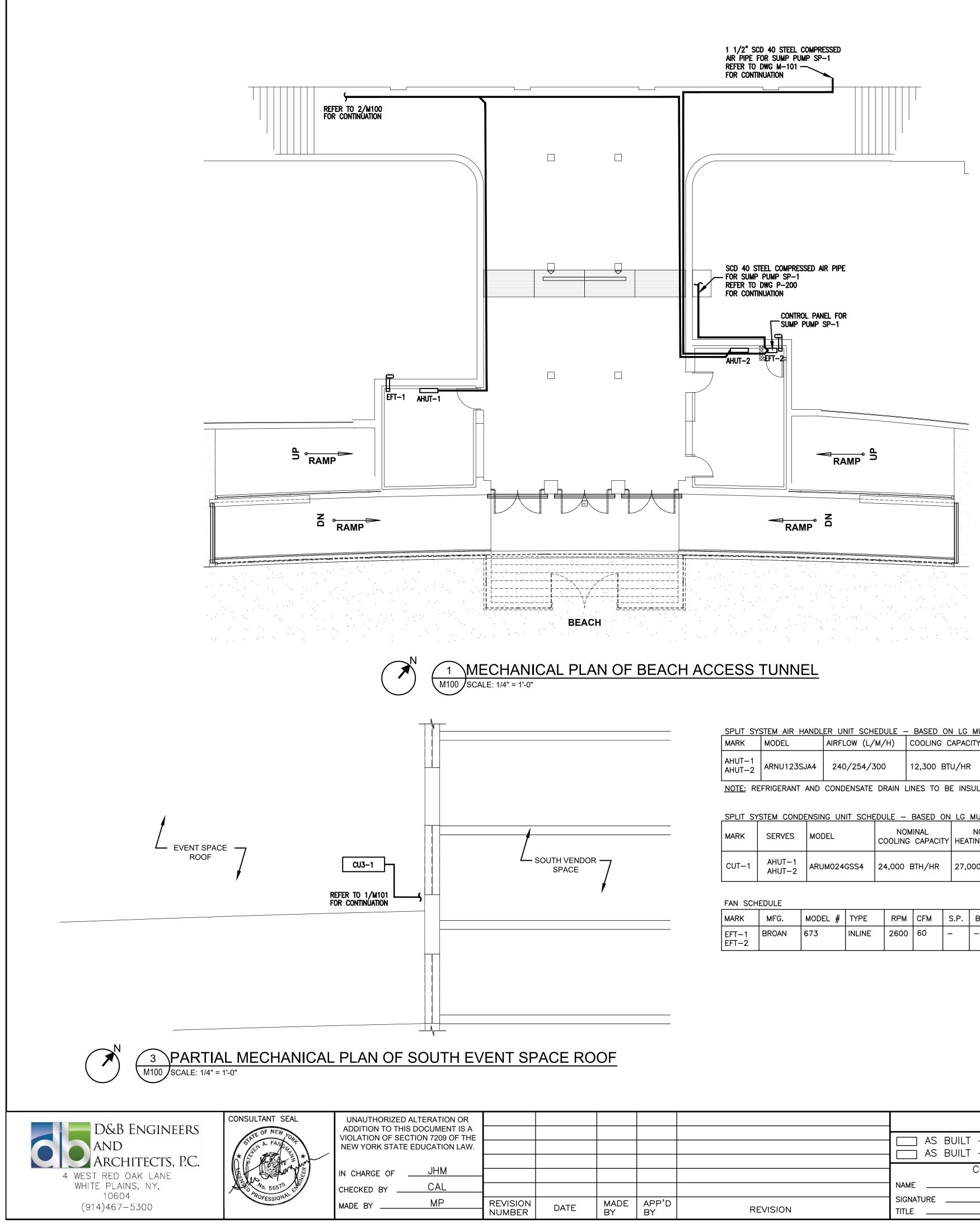
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		CONTRACTOR	PROJECT COORDINATOR NAME	PLAYLAND PARK, RYF, NFW YORK	SCALE: DATE: NOVEMBER 10, 2020	2
-		SIGNATURE DATE	SIGNATURE DATE	(LIRO) MECHANICAL DEMOLITION PLAN - SOUTH EVENT SPACE	DPW FILE NO. R 1-19-M-452	- <u>v</u> . 10.

DEMOLITION NOTES:

- (1) SALVAGE, REMOVE AND TEMPORARILY STORE EXISTING EXHAUST FAN FOR FUTURE RELOCATION. REMOVE ASSOCIATED EXHAUST LOUVER, DUCTWORK UP TO POINT INDICATED AND CAP FOR FUTURE CONNECTIONS.
- 2) REMOVE EXISTING SUPPLY GRILLES AND DUCTWORK UP TO POINT INDICATED AND CAP DUCTWORK FOR FUTURE CONNECTION.
- (3) REMOVE EXISTING UNIT HEATER, ASSOCIATED THERMOSTAT, SUPPORTS, AND PIPING. CUT PIPING BACK UP TO POINT INDICATED AND CAP FOR FUTURE CONNECTION.
- (4) REMOVE EXISTING OA LOUVER. CLEAN, SERVICE, AND PRESERVE EXISTING AIR HANDLING UNIT. SERVICE SHALL INCLUDE REPLACING OF ALL FILTERS, TIGHTENING/REPLACING BELT, GREASING BEARINGS.
- 5 CLEAN COIL EXISTING HEATING COIL.

GENERAL NOTES:

- . PROVIDE CLEANING OF ALL EXISTING DUCTWORK.
- . PROVIDE PRE-DEMOLITION TESTING, ADJUSTING, AND AIR BALANCING (TAB) VERIFICATION PRIOR TO FAN REMOVAL. TAB SHALL BE PERFORMED BY A CERTIFIED NEBB CONTRACTOR. AIR BALANCE REPORT OF THE EXISTING AIR HANDLING UNIT AND EXHAUST FAN AND SUBMIT TO THE EOR. REPORT DATA SHALL INCLUDE TOTAL AIRFLOW, STATIC PRESSURE, VELOCITY, DUCT SIZE, MOTOR HP, FANS MAKE AND MODEL NUMBERS,
- PROVIDE PRE-DEMOLITION WATER BALANCING REPORT ON THE HOT WATER SYSTEM BY A CERTIFIED NEBB CONTRACTOR. REPORT SHOULD INCLUDE WATER FLOW RATE AT MAIN PUMPS IN BOILER ROOM AS WELL AS EACH BRANCH CIRCUIT. REFER TO TESTING AND BALANCING SPECIFICATIONS FOR DETAILS AND PROCEDURE.
- ISOLATE AND DRAIN EXISTING HYDRONIC SYSTEM AND PROVIDE CHEMICAL CLEANING OF EXISTING BRANCHES SERVING THE SOUTH EVENT SPACE AND STOREFRONTS. REFER TO CHEMICAL WATER TREATMENT SPECIFICATION 232500 FOR MORE DETAILS.



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			RECORD DRAWING CERTIFICATION
			AS BUILT – CHANGES AS NOTED

 RPM
 CFM
 S.P.
 BHP
 HP
 SONES
 VOLTS
 WEIGHT
 REMARKS
 INLINE 2600 60 - - 4.5 120 - 1 AMP FOR CONTINUOUS MANUAL OPERATION VIA DEDICATED SWITCH.

		MODEL	NOMINAL	NOMINAL		COMPRESSOR					ELECTRIC		WIDTH	WIDTH DEPTH	HEIGHT	WEIGUT	DEMADIZE
MARK	SERVES	MODEL		HEATING CAPACITY	PRESSURE	TYPE / QTY	REF.		SUCTION	POWER	MCA	MOCP	WIDTH	DEPTH	HEIGHT	WEIGHT	REMARKS
CUT-	AHUT–1 AHUT–2	ARUM024GSS4	24,000 BTH/HR	27,000 BTH/HR	50.0 dB(A)	(1) SCROLL INVERTER DRIVEN	R410A	3/8"	5/8"	208V 1ø 60HZ	19.6 AMP	30 AMP HACR BREAKER	37-13/32"	15-11/32"	32-27/32"	159 LBS	

						, , , , , , , , , ,				
SPLIT SY	STEM CONDE	NSING UNIT SCHE	DULE – BASED ON	LG MULTI-V						_
MARK	SERVES	MODEL	NOMINAL	NOMINAL	SOUND	COMPRES	SSOR	LIQUID	SUCTION	
	SERVES	MODEL	COOLING CAPACITY	HEATING CAPACITY	PRESSURE	TYPE / QTY	REF.		30011014	

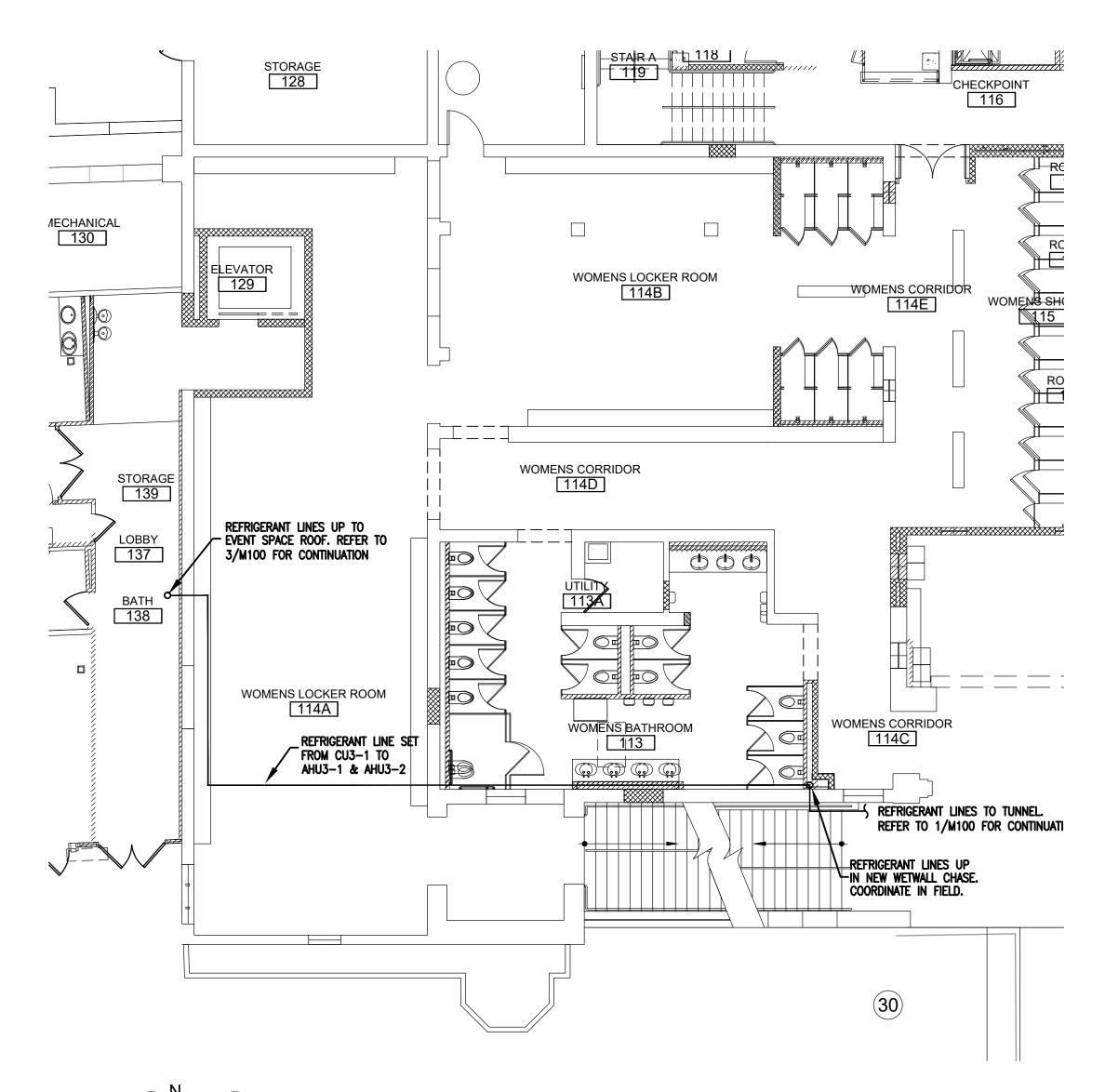
SPLIT SYS	STEM AIR HANDL	ER UNIT SCHEDULE -	– BASED ON LG MUL	_TI–V									
MARK	MODEL	AIRFLOW (L/M/H)	COOLING CAPACITY	HEATING CAPACITY	LIQUID	GAS	DRAIN	ELECTRIC	DEPTH	WIDTH	HEIGHT	WEIGHT	REMARKS
AHUT–1 AHUT–2	ARNU123SJA4	240/254/300	12,300 BTU/HR	13,600 BTU/HR	1/4"	1/2"	5/8"	208/1/60 0.25A	7-7/16"	32-3/16"	12-7/16"	18.5 LBS	INSULATED CONDENSATE DRAIN TO TRENCH DRAIN IN TUNNEL

CELL FOAM INSULATION.

MARK	MODEL	AIRFLOW (L/M/H)	COOLING CAPACITY	HEATING CAPACITY	LIQUID	GAS	DRAIN	ELECTRIC	
AHUT—1 AHUT—2	ARNU123SJA4	240/254/300	12,300 BTU/HR	13,600 BTU/HR	1/4"	1/2"	5/8"	208/1/60	0.25A

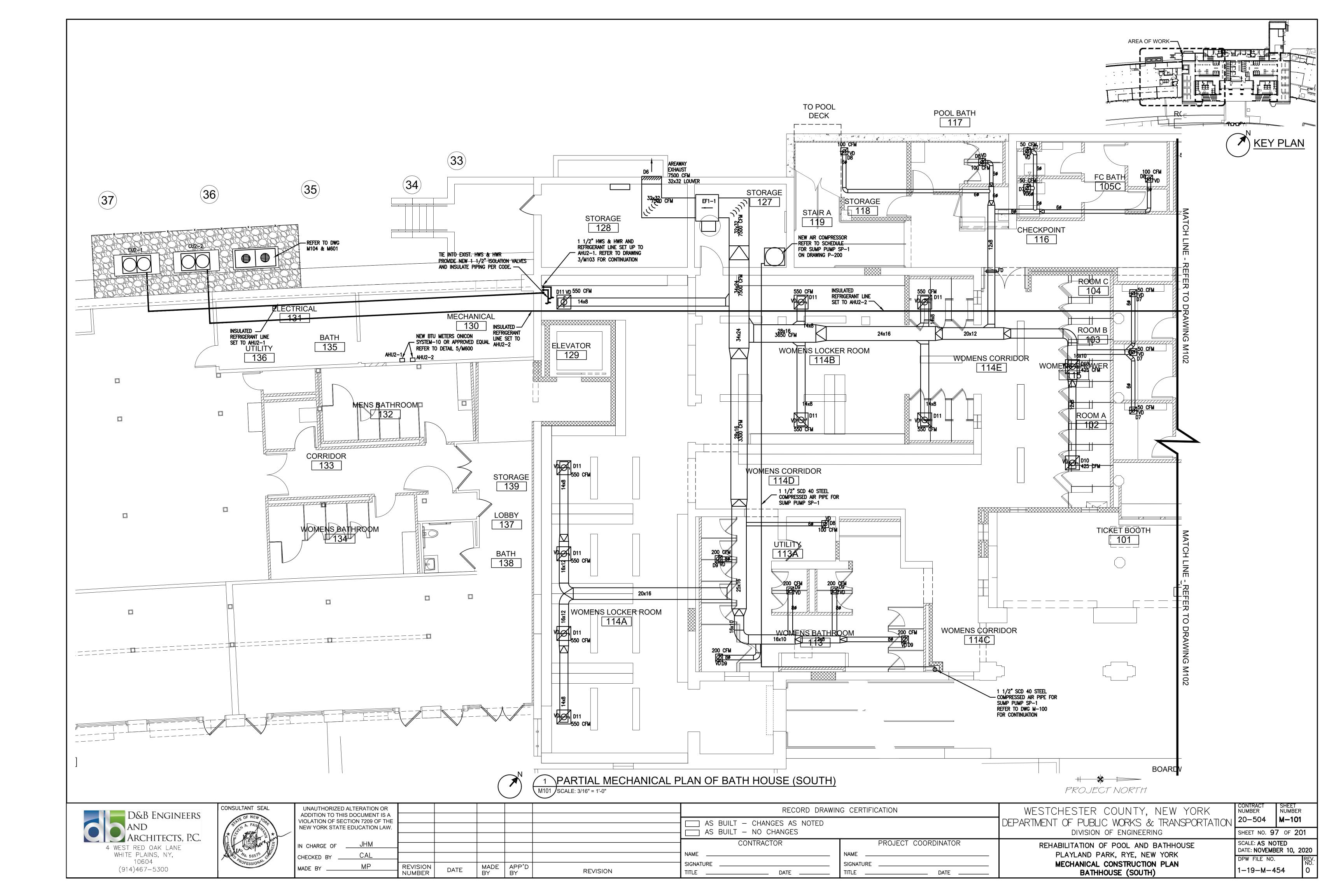
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-	NOTE: RE	FRIGERANT	AND	CONDENSATE	DRAIN	LINES	TO BE	E INSULAT	ED WITH	K-FLEX	INSUL-TUE	BE (OR	APPROVED	EQUAL)	CLOSED	C

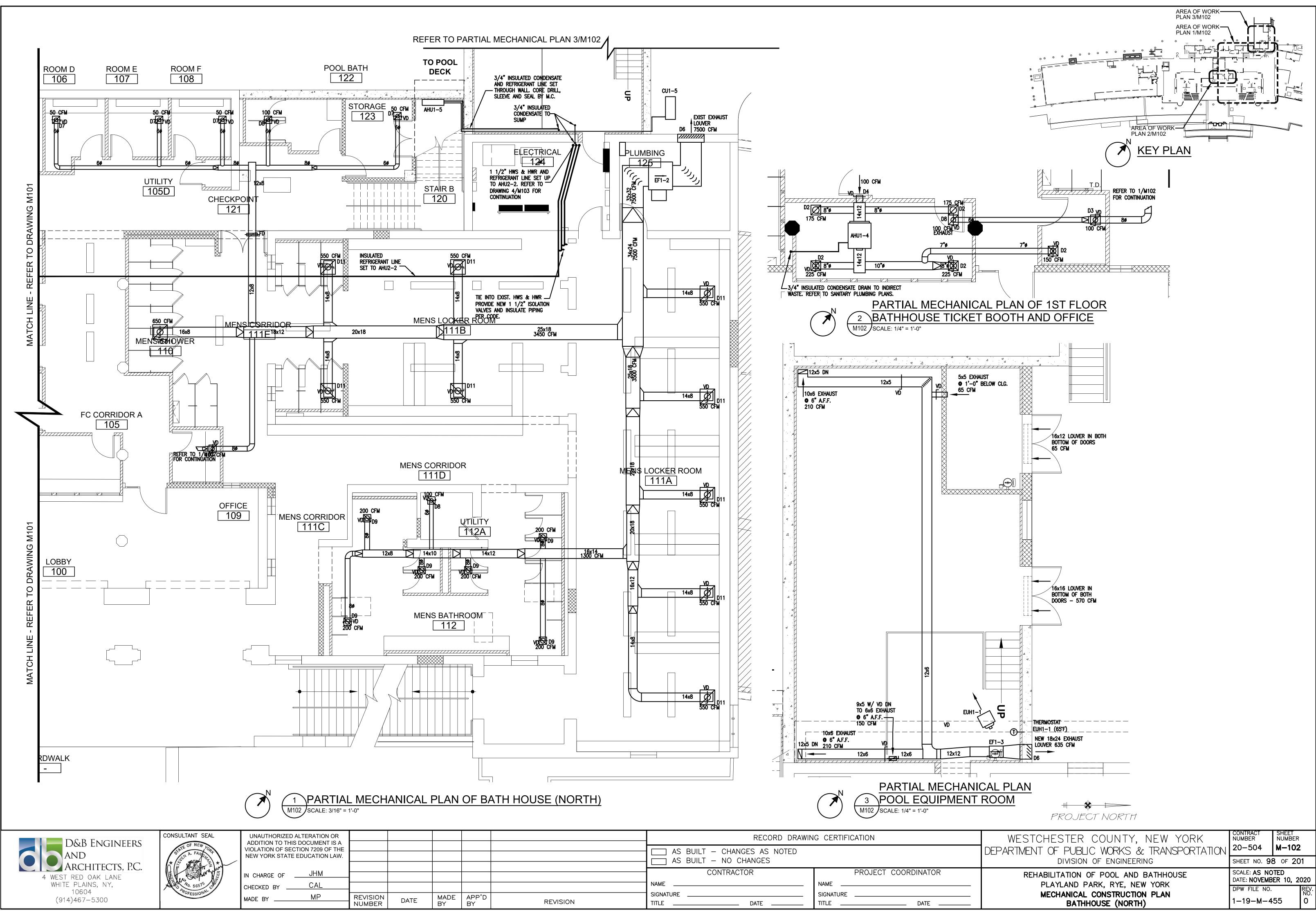
SPLIT SYS	STEM AIR HANDL	ER UNIT SCHEDULE -	– BASED ON LG MUL	_TI—V									
MARK	MODEL	AIRFLOW (L/M/H)	COOLING CAPACITY	HEATING CAPACITY	LIQUID	GAS	DRAIN	ELECTRIC	DEPTH	WIDTH	HEIGHT	WEIGHT	REMARKS
AHUT—1 AHUT—2	ARNU123SJA4	240/254/300	12,300 BTU/HR	13,600 BTU/HR	1/4"	1/2"	5/8"	208/1/60 0.25A	7-7/16"	32-3/16"	12-7/16"	18.5 LBS	INSULATED CONDENSATE DRAIN TO TRENCH DRAIN IN TUNNEL



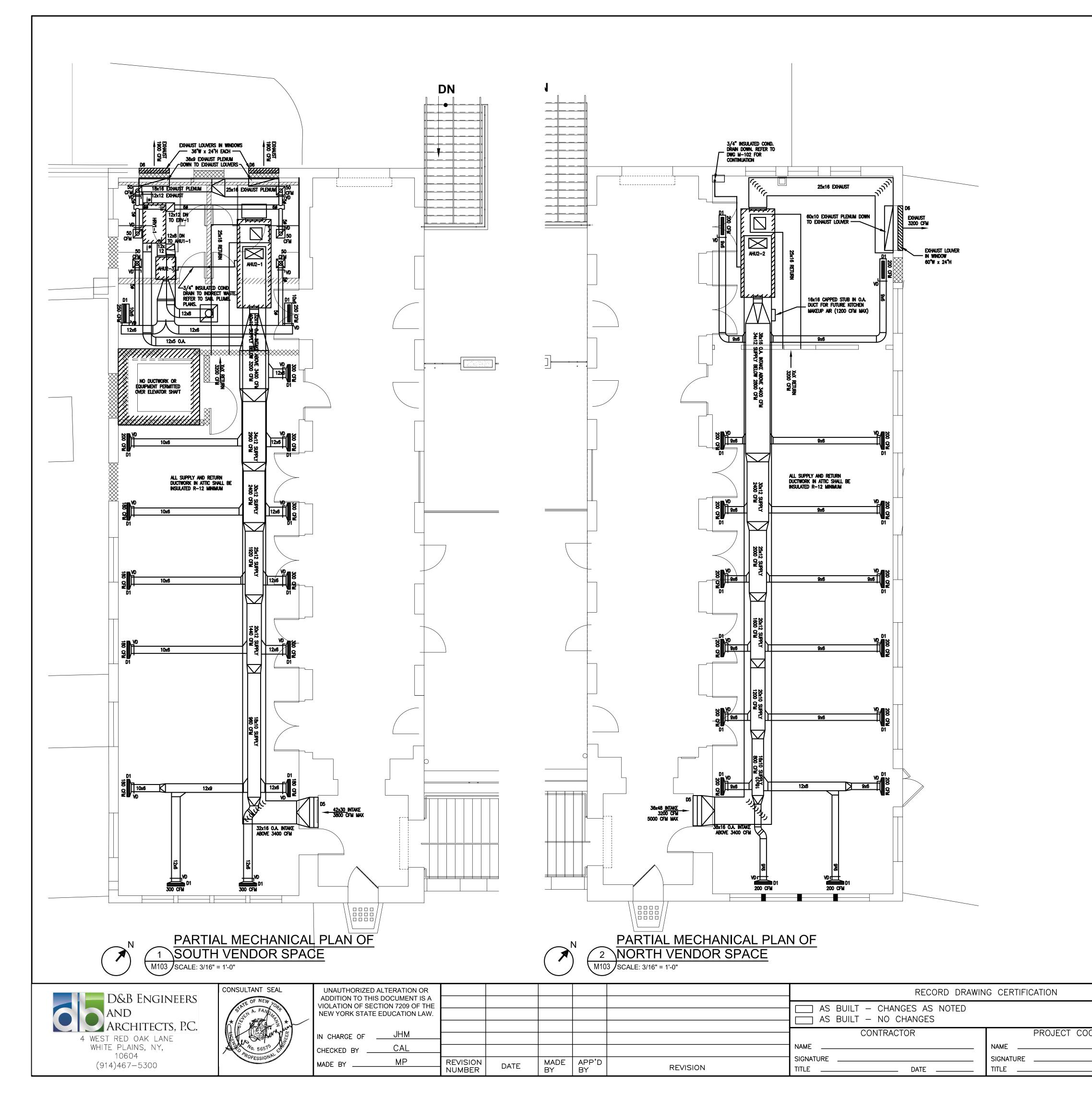
2 PARTIAL MECHANICAL PLAN OF BATHHOUSE M100 SCALE: 1/4" = 1'-0"

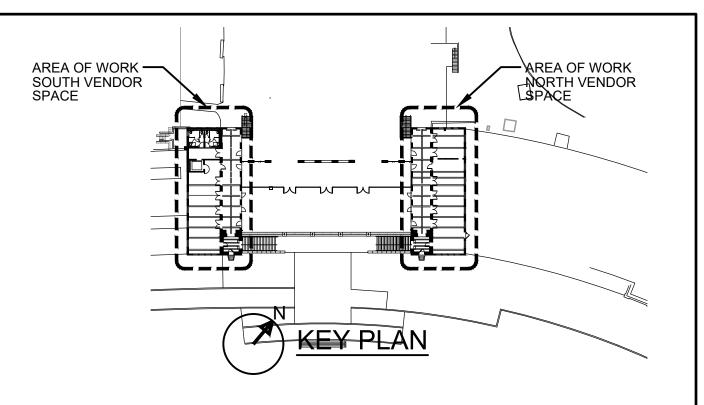
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	WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION	CONTRACT NUMBER 20-504	SHEET NUMBER M-100)
	DIVISION OF ENGINEERING	SHEET NO. 90	6 OF 20	1
RDINATOR	REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK	SCALE: AS NO DATE: NOVEMB		020
DATE	MECHANICAL PLAN TUNNEL	DPW FILE NO. 1-19-M-4		rev. NO: 0

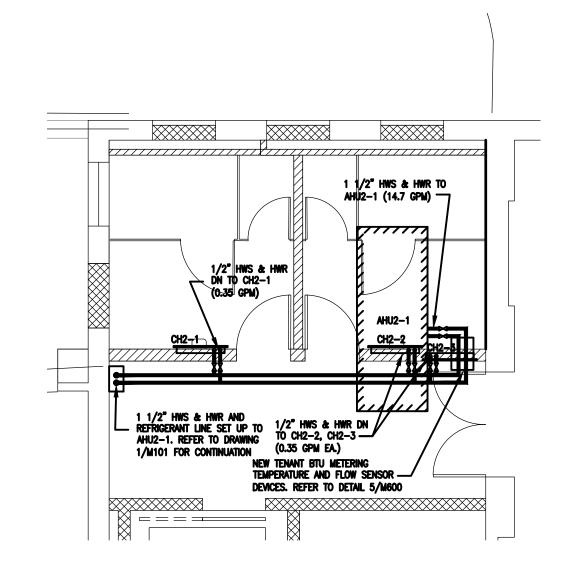




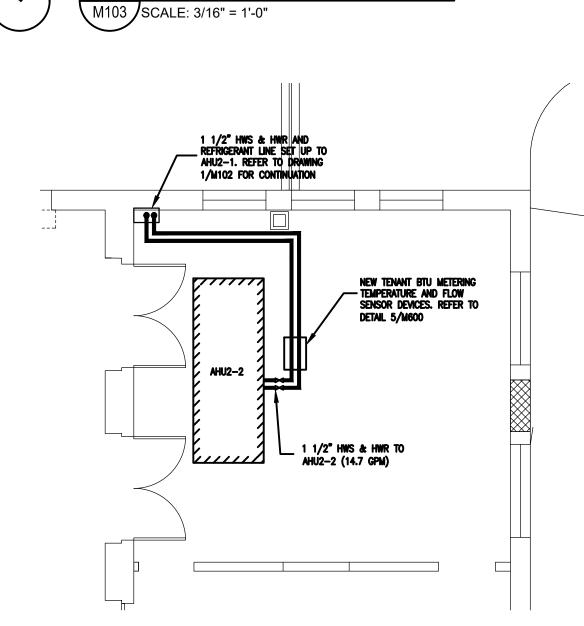
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<u>PARTIAL MECHANICAL PIPING PLAN OF</u> <u>3 SOUTH VENDOR SPACE</u>

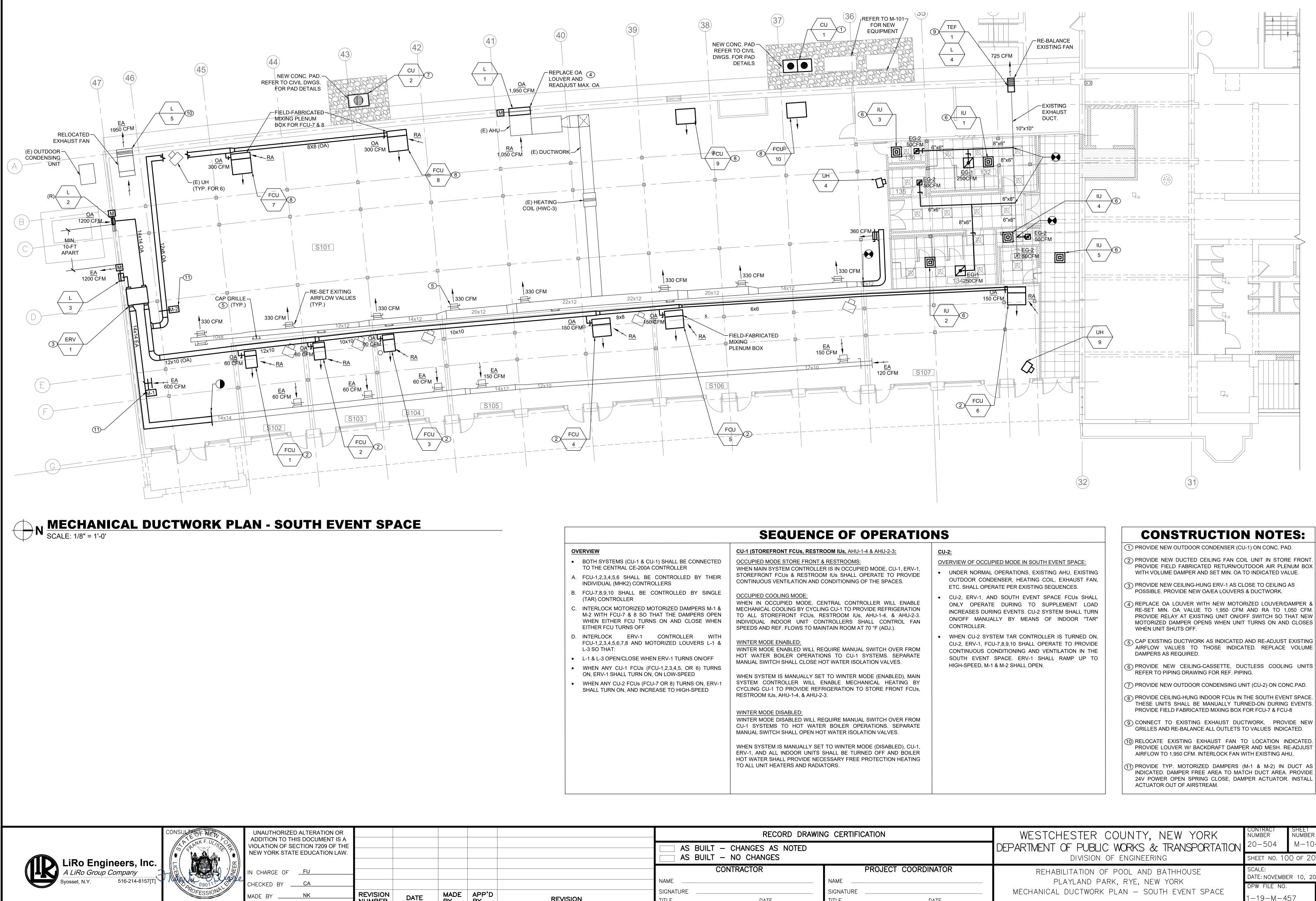


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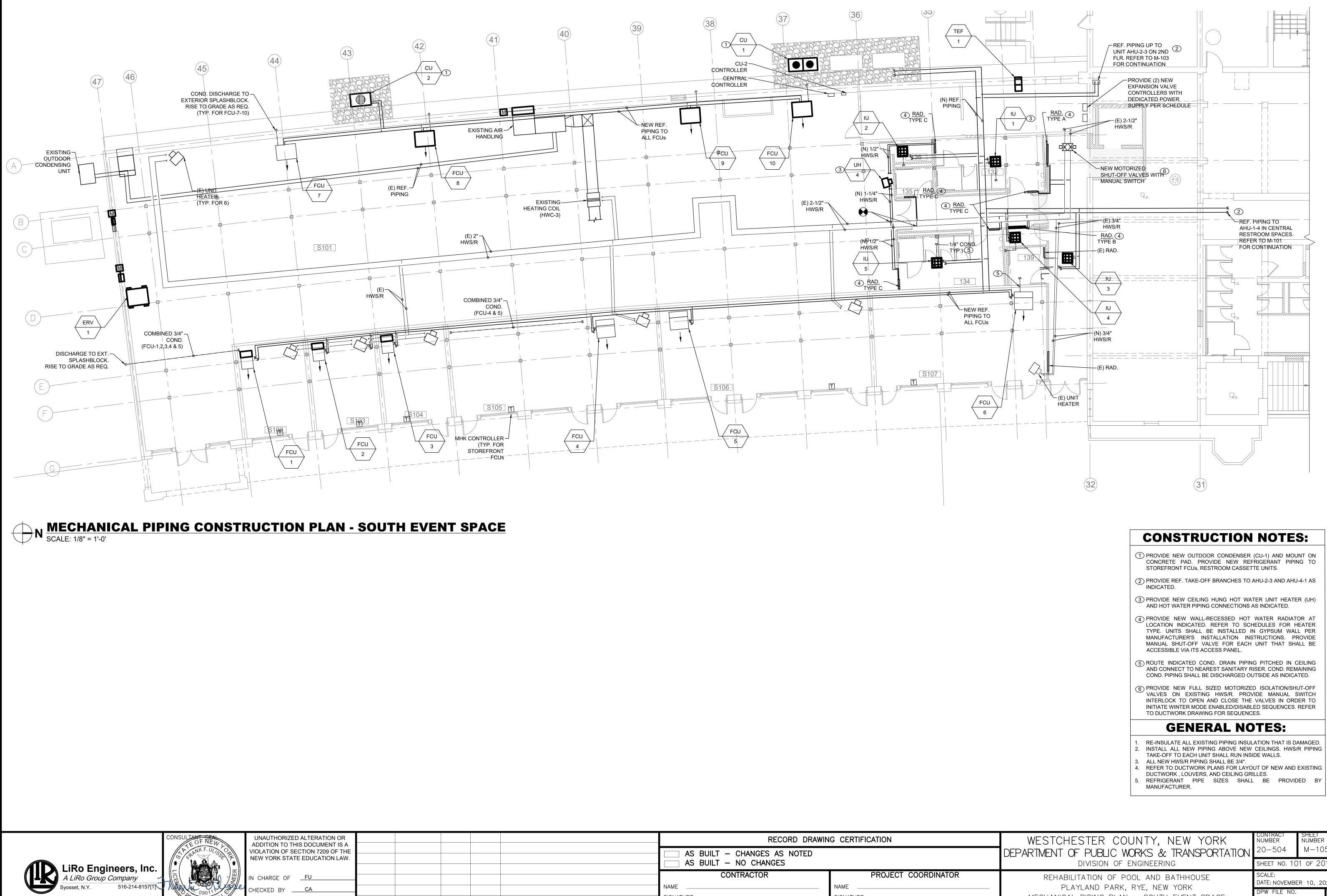
	WESTCHESTER COUNTY, NEW YORK	CONTRACT NUMBER	SHEET NUMBER
	DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION	20–504	M-103
	DIVISION OF ENGINEERING	SHEET NO. 99	9 OF 201
ORDINATOR	REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK	SCALE: AS NO DATE: NOVEMB	
	MECHANICAL PLAN	DPW FILE NO.	REV. NO.
DATE	POOL DECK LEVEL	1-19-M-4	56 0



NUMBER

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	AS BUILT – CHANGES AS NOTED AS BUILT – NO CHANGES		DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING	20-504 M-104 SHEET NO. 100 OF 201
	CONTRACTOR NAME	PROJECT COORDINATOR NAME	PLAYLAND PARK, RYE, NEW YORK	SCALE: DATE: NOVEMBER 10, 2020 DPW FILE NO.
MADE APP'D REVISION	SIGNATURE DATE	SIGNATURE DATE	MECHANICAL DUCTWORK PLAN – SOUTH EVENT SPACE	1-19-M-457

OVERVIEW OF OCCUPIED MODE IN SOUTH EVENT SPACE:
 UNDER NORMAL OPERATIONS, EXISTING AHU, EXISTING OUTDOOR CONDENSER, HEATING COIL, EXHAUST FAN, ETC. SHALL OPERATE PER EXISTING SEQUENCES.
 CU-2, ERV-1, AND SOUTH EVENT SPACE FCUs SHALL ONLY OPERATE DURING TO SUPPLEMENT LOAD INCREASES DURING EVENTS. CU-2 SYSTEM SHALL TURN ON/OFF MANUALLY BY MEANS OF INDOOR "TAR" CONTROLLER.
 WHEN CU-2 SYSTEM TAR CONTROLLER IS TURNED ON, CU-2, ERV-1, FCU-7,8,9,10 SHALL OPERATE TO PROVIDE CONTINUOUS CONDITIONING AND VENTILATION IN THE SOUTH EVENT SPACE. ERV-1 SHALL RAMP UP TO HIGH-SPEED, M-1 & M-2 SHALL OPEN.



REVISION

NUMBER

DATE

MADE BY ______NK

		RECORD DRAWIN	IG CERTIFICATION
		AS BUILT – CHANGES AS NOTED AS BUILT – NO CHANGES	
		CONTRACTOR	PROJECT COORE
		NAME	NAME
-	MADE APP'D REVISION	SIGNATURE TITLE	SIGNATURE TITLE

	WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION	contract number 20-504	sheet number M—105
	DIVISION OF ENGINEERING	SHEET NO. 1C)1 of 201
RDINATOR	REHABILITATION OF POOL AND BATHHOUSE Playland park, rye, new york	SCALE: DATE: NOVEMBE	ER 10, 2020
	MECHANICAL PIPING PLAN - SOUTH EVENT SPACE	DPW FILE NO.	NO.
DATE		1-19-M-4	58

				:	SUPPLY FA	AN AND MO	OTOR DA	ATA		E	LECTRICAL	POWER	R				COOLING	SECTION (D	X COIL)							HEATIN	IG SECTION	(HOT WATER	COIL)			
MARK	AREA SERVED	MODEL #	CFM	FAN RPM	TYPE	EXTERNAL STATIC	FAN BHP	MOTOR TYPE	DRIVE	VOLTS	MCA FL	а мос	P VFD HP	TOTAL CAPACITY	SENSIBLE CAPACITY	SUMMER EA DB/WB	SUMMER LA DB/WB	AIR PD IN W.G.	REFRIGERANT	ROWS	CIRCUITS	FACE VELOCITY	TOTAL CAPACITY	FLOW	WATER PD	FACE VELOCITY	WINTER EA WB/DB	WINTER LA WB/DB	HWS/HWR CONNECTION	EWT/LWT	ROWS	
AHU2-1	SOUTH TENANT SPACE	TRANE UCCAA06	3200	1100 T	DRAW– HROUGH	0.5" W.C.	1.64	TEFC	FACTORY VFD	460/3/60	8.74 7.5 AMP AM	54 15 1P AMF	P 3.0	109.7 MBH	77.2 MBH	80.0°F DB 67.0°F WB	58.0°F DB 56.1°F WB	0.63" WET	R410A	3	1	582 FPM	147.2 MBH	14.7 GPM	2.83 FT	582 FPM	60.0°F DB	102.4°F DB	1 1/4" NPT	200.0° EWT 180.0° LWT	1	
AHU2-2	NORTH TENANT SPACE	TRANE UCCAA06	3200	1100 T	DRAW– HROUGH	0.5" W.C.	1.64	TEFC	FACTORY VFD	460/3/60	8.74 7.5 AMP AM	54 15 1P AMF	P 3.0	109.7 MBH	77.2 MBH	80.0°F DB 67.0°F WB	58.0°F DB 56.1°F WB	0.63" WET	R410A	3	1	582 FPM	147.2 MBH	14.7 GPM	2.83 FT	582 FPM	60.0°F DB	102.4°F DB	1 1/4" NPT	200.0° EWT 180.0° LWT	1	
AHU2-3	ELEVATOR VESTIBULE & TOILETS	TRANE BCHD018	600	1573 ₁	DRAW- HROUGH	0.5" W.C.	0.32	ЕСМ	ECM	208/1/60	5.33 4.2 AMP AN	26 15 IP AMF	P –	20.2 MBH	14.55 MBH	80.0°F DB 67.0°F WB	57.9°F DB 56.3°F WB	0.57" WET	R410A	3	1	540 FPM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
AHU1-4	BATH HOUSE TICKET BOOTH & OFFICE	TRANE BCHD018	600	1573	DRAW- HROUGH	0.5" W.C.	0.32	ECM	ECM	208/1/60	5.33 4.2			20.2 MBH	14.55 MBH	80.0°F DB 67.0°F WB	57.9°F DB 56.3°F WB	0.57" WET	R410A	3	1	540 FPM	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	N/A	
														NIDU		07.0F WB	30.3 F WB															
IR HANDL	ER UNIT SCHEDULE (МОП		07.0F WB	30.3 F WB															
AIR HANDL	ER UNIT SCHEDULE (MIXING	BOX SE					<u> </u>		1	MOTOR DATA	30.3 F WB	Ι	HYSICAL DATA]						MECHANICAL	L OUTSIDE AIR V	ENTILATION SCI	IEDULE		
AIR HANDL	ER UNIT SCHEDULE (SECTION	AIR VELOCITY	RECIRC	/0A% 04		MIXING RA INLE WINTEF	ET SA		SENSIBLE RECOVERY	RECIRC/C)A%	FM FAN	RETURN	1	MOTOR DATA		F	HYSICAL DATA IDTH HEIGHT	WEIGHT				OCCL			PROPOSED	PEOPLE NU	MBER REQU	RED REQUI		E C
MARK	ER UNIT SCHEDULE (FILTER	SECTION	AIR	RECIRC	/OA% OA ER V	A INLET WINTER 2.7°F DB	RA INLE	ET SA R W DB 45.		SENSIBLE	RECIRC/0	DA% CI	FAN	RETURN	FAN AND	MOTOR DATA L FAN MOT BHP TYF		LENGTH V		WEIGHT 937 LBS				OCCL	UPANCY	١	PROPOSED	PEOPLE NU PER 1000	MBER REQU		RED OUTSIDE Q.FT. AIR REQUIREI CFM	
MARK AHU2-1	ER UNIT SCHEDULE (FILTER TYPE INITIAL PD IN WG MERV 13 0.10"	SECTION MAX PD IN WG	AIR VELOCITY 354	RECIRC	/OA% OA ER V 37% 12 10	A INLET WINTER 2.7°F DB 0.9°F WB 2.7°F DB	RA INLE WINTEF 65.0°F I	ET SA R W DB 45. WB 40. DB 45.	OUTLET INTER 5°F DB	SENSIBLE RECOVERY 112.1	RECIRC/C	DA% CI R 32	FM FAN	RETURN 1 TYPE 9 PLUG	FAN AND EXTERNA STATIC 0.5" W.C	MOTOR DATA L FAN MOT BHP TYF	DR E DRIVE C FACTORY VFD	F LENGTH V 122.9"	IDTH HEIGHT	937				CLAS	UPANCY SIFICATION TH VENDOF /LOUNGE	N	PROPOSED	PEOPLE NU PER 1000 SQ.FT PE	MBER REQU	RED REQUI RSON CFM/S	Q.FT. AIR REQUIREI CFM	D P
MARK AHU2-1 AHU2-2	ER UNIT SCHEDULE (FILTER TYPE INITIAL PD IN WG MERV 13 2" FLAT 0.10" MERV 13	CONTINUED) SECTION MAX PD IN WG 0.98"	AIR VELOCITY 354 FPM 354	RECIRC WINT 62%/	/OA% OA ER V 37% 12 10 39% 12 10	A INLET WINTER 2.7°F DB 0.9°F WB 2.7°F DB	RA INLE WINTEF 65.0°F I 53.5°F N 65.0°F I	ET SA R W DB 45. WB 40. DB 45. WB 40.	OUTLET INTER 5°F DB 5°F WB 5°F DB	SENSIBLE RECOVERY 112.1 MBH 112.1	RECIRC/C SUMME 0%/100)A% CI R 32 % 32	FM FAN RPN 200 174	RETURN TYPE P PLUG	FAN AND EXTERNA STATIC 0.5" W.C	MOTOR DATA L FAN MOT BHP TYF C. 0.95 TEF	DRIVE C FACTORY VFD C FACTORY VFD	F LENGTH V 122.9" 4 122.9" 4	/IDTH HEIGHT .7.0" 32.5"	937 LBS 937 LBS		I F MI		CLAS SOUT BAR/ NORT	SIFICATION	R SPACE	PROPOSED SQ.FT.	PEOPLE NU PER 1000 SQ.FT PE 100	MBER REQU OF CFM/PE OPLE	RED REQUI RSON CFM/S 0.18	Q.FT. AIR REQUIREI CFM 1162.5	D P

AIR HANDLER UNIT NOTES/OPTIONS:

PROVIDE WITH TWO STAGE HEATING/COOLING 7-DAY PROGRAMMABLE THERMOSTAT, REFER TO PLANS FOR THERMOSTAT LOCATION
 PROVIDE WITH FIELD INSTALLED DISCONNECT SWITCHES

2" POLYURETHANE FOAM INSULATION

• REFRIGERANT AND CONDENSATE DRAIN LINES TO BE INSULATED WITH K-FLEX INSUL-TUBE (OR APPROVED EQUAL) CLOSED CELL FOAM INSULATION.

PROVIDE (3) SETS OF FILTERS FOR EACH UNIT; (1) FOR USE DURING CONSTRUCTION, (1) FOR INSTALLATION AFTER CONSTRUCTION IS COMPLETE, AND (2)
 FACTORY INSTALLED VFD ON AIR HANDLER FAN

SPLIT SYSTEM CONDENSING UNIT SCHEDULE - BASED ON MITSUBISHI

MARK	SERVES	MODEL	NOMINAL	NOMINAL		COMPRE	SSOR		SUCTION	EL	ECTRIC		WIDTH	DEPTH	HEIGHT	WEIGHT	REMARKS
MARK	SERVES	MODEL	COOLING CAPACITY	HEATING CAPACITY	PRESSURE	TYPE / QTY	REF.		SUCTION	POWER	MCA	MOCP		DEPTH	HEIGHT	WEIGHT	REMARKS
CU2-1	AHU2-1	TUHYP1204AN40AN	120,000 BTH/HR	135,000 BTH/HR	80.0 dB(A)	(1) SCROLL INVERTER DRIVEN	R410A	3/8"	7/8"	460V 3ø 60HZ	19.0 AMP	30 AMP HACR BREAKER	48-7/8"	29-3/16"	71-5/8"	594 LBS	PROVIDE (1) LEV COTROL BOX AND VALVE ASSEMBLY FOR EACH AIR HANDLER, PART #PAC-AH001-1
CU2-2	AHU2-2	TUHYP1204AN40AN	120,000 BTH/HR	135,000 BTH/HR	80.0 dB(A)	(1) SCROLL INVERTER DRIVEN	R410A	3/8"	7/8"	460V 3ø 60HZ	19.0 AMP	30 AMP HACR BREAKER	48-7/8"	29-3/16"	71–5/8"	594 LBS	PROVIDE (1) LEV COTROL BOX AND VALVE ASSEMBLY FOR EACH AIR HANDLER, PART #PAC-AH001-1
	AHU2-3	REFER TO SCHEDULES	S DRAWING M-601														
	AHU1-4	REFER TO SCHEDULES	DRAWING M-601														

DIFFUSE	R, GRILLE	AND	LOUVER	SCHEDULE	(SPECI	FICATION	SECTION	2394	00)

					,,			
MARK	MANUF.	MODEL	SERVICE	SIZE	CFM	PERFORMANCE	OPTIONS	NOTES
D1	TITUS	FL-15	SUPPLY	2'-0" LENGTH	90 CFM/FT	NC <= 17 THROW: 7FT @ 100 FPM TOTAL PD <= 0.07" W.C.	HARD CEILING CLIP BORDER TYPE 55 (CONCEAL MOUNT)	CEILING DIFFUSER IN VENDOR SPACES MODIFY EXIST. WOOD CEILING AS REQUIRED
D2	TITUS	TMS	SUPPLY	12x12 8"ø NECK	200	NC <= 20 TOTAL PD <= 0.13" W.C.	D-100 DAMPER COORDINATE FRAME TYPE WITH CEILING CONSTRUCTION	SUPPLY DIFFUSERS IN BATH HOUSE TICKET BOOTH/OFFICE
D3	TITUS	TMS	RETURN	12x12 8"ø NECK	200	NC <= 20 TOTAL PD <= 0.13" W.C.	D–100 DAMPER COORDINATE FRAME TYPE WITH CEILING CONSTRUCTION	RETURN DIFFUSERS IN BATH HOUSE TICKET BOOTH/OFFICE
D4	TITUS	RL350	INLET	MATCH DUCT SIZE	100			INLET GRILLE IN BATH HOUSE TICKET BOOTH/OFFICE
D5	RUSKIN	ELF6350DMP	O.A. INTAKE	SEE PLANS	3200			OUTDOOR AIR INTAKE LOUVER IN VENDOR SPACES, POOL EQUIPMENT ROOM
D6	RUSKIN	ELF6350DMP	EXHAUST	SEE PLANS	3200/3800			EXHAUST LOUVER IN VENDOR SPACES, BATH HOUSE EXHAUST, POOL EQUIP ROOM EXHAUST.
D7	TITUS	TMS	EXHAUST	12x12 4"ø NECK	50	NC <= 10 TOTAL PD <= 0.03" W.C.	D–100 DAMPER COORDINATE FRAME TYPE WITH CEILING CONSTRUCTION	EXHAUST DIFFUSERS IN BATH HOUSE
D8	TITUS	TMS	EXHAUST	12x12 5"ø NECK	100	NC <= 15 TOTAL PD <= 0.09" W.C.	D-100 DAMPER COORDINATE FRAME TYPE WITH CEILING CONSTRUCTION	EXHAUST DIFFUSERS IN BATH HOUSE
D9	TITUS	TMS	EXHAUST	12x12 8"ø NECK	200	NC <= 20 TOTAL PD <= 0.13" W.C.	D-100 DAMPER COORDINATE FRAME TYPE WITH CEILING CONSTRUCTION	EXHAUST DIFFUSERS IN BATH HOUSE
D10	TITUS	TMS	EXHAUST	24x24 10"ø NECK	425	NC <= 26 TOTAL PD <= 0.12" W.C.	D-100 DAMPER COORDINATE FRAME TYPE WITH CEILING CONSTRUCTION	EXHAUST DIFFUSERS IN BATH HOUSE
D11	TITUS	TMS	EXHAUST	24x24 14"ø NECK	550-650	NC <= 23 TOTAL PD <= 0.10" W.C.	D-100 DAMPER COORDINATE FRAME TYPE WITH CEILING CONSTRUCTION	EXHAUST DIFFUSERS IN BATH HOUSE



CONSULTANT SEAL

ADDITION TO TH	D ALTERATION OR HIS DOCUMENT IS A ECTION 7209 OF THE TE EDUCATION LAW.		
CHARGE OF	JHM		
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(1)	SPARE
(1)	JI ANL

UNIT HEA	TER SCHED	UL
MARK	MANUF.	
EUH1-1	MODINE	
FAN SCH	EDULE (SP	ECI
MARK	MFG.	М
EF1-1 EF1-2	AMERICAN COOLAIR	S
EF1-3	AMERICAN COOLAIR	SC

HEAT	RECOVERY VEN	TILATOR SCHEDULE	(SPECIF	ICATION SE	ECTION	238451)			
MAR	K MANUF.	MODEL	CFM	ESP	UNIT WGT	UNIT DIMS.	ELECTRICAL	MOTORS	NOTES:
HRV1	-1 ENERGY WALL	U-HRV-600LL	200	2.0" W.C. MAX	98 LBS	32"W 54"L 12"H	115V 1PH 60HZ 7.9 FLA 15A MOCP	(2) ECM MOTOR	FAN 1: OUTDOOR AIR IN, PORT 2 FAN 2: EXHAUST AIR OUT, PORT 7 SUPPLY AIR: PORT 3 (NO FAN) TO AHU1–3 RETURN AIR; PORT 6 (NO FAN)

SPLIT SYS	SPLIT SYSTEM AIR HANDLER UNIT SCHEDULE – BASED ON MITSUBISHI P-SERIES														
MARK	MODEL	AIRFLOW (L/M/H)	COOLING CAPACITY	LIQUID	GAS	DRAIN	ELECTRIC	DEPTH	WIDTH	HEIGHT	WEIGHT	REMARKS			
AHU1-5	U1-5 PKA-A12HA7 320/370/425		12,000 BTU/HR	1/4"	1/2"	5/8"	208/1/60 0.33A	9–13/16"	35–3/8"	11-5/8"	29 LBS	INSULATED CONDENSATE DRAIN TO SUMP IN POOL EQUIP. ROOM			
NOTE: RE	NOTE: REFRIGERANT AND CONDENSATE DRAIN LINES TO BE INSULATED WITH K-FLEX INSUL-TUBE (OR APPROVED EQUAL) CLOSED CELL FOAM INSULATION.														

SPLIT SY	SPLIT SYSTEM CONDENSING UNIT SCHEDULE – BASED ON MITSUBISHI P-SERIES															
		MODEL	NOMINAL	SOUND	COMPRESSOR			SUCTION	ELECTRIC		WIDTH	DEPTH	HEIGHT	WEIGHT	REMARKS	
MARK	SERVES	MODEL	COOLING CAPACITY	PRESSURE	TYPE / QTY	REF.		SUCTION	POWER	МСА	MOCP	WIUTH	DEFIN		WEIGHT	REMARKS
CU1-5	AHU1-5	PUY-A12NKA7	12,000 BTH/HR	44.0 dB(A)	(1) SCROLL INVERTER DRIVEN	R410A	1/2"	5/8"	208V 1ø 60HZ	11.0 AMP	25 AMP HACR BREAKER	37-1/16"	16-3/16"	27-7/16"	92 LBS	

						H * E PROJECT NORTH		
				RECORD	DRAWING CERTIFICATION			SHEET NUMBER
				AS BUILT – CHANGES AS NO	OTED	DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING	20-504 N SHEET NO. 102	M-400
				CONTRACTOR	PROJECT COORDINATOR	REHABILITATION OF POOL AND BATHHOUSE – PLAYLAND PARK, RYE, NEW YORK	SCALE: AS NOTE DATE: NOVEMBER DPW FILE NO.	R 10, 2020
ATE	MADE BY	APP'D BY	REVISION	SIGNATURE DATE	SIGNATURE DATE	MECHANICAL EQUIPMENT SCHEDULES TUNNEL / BATHHOUSE / POOL DECK LEVEL	1-19-M-459	.9 0

CONVECTOR CABINET HEATER SCHEDULE (SPECIFICATION SECTION 238352)

				1			/	
MARK	MANUF.	MODEL	MBH	EWT	LWT	FLOW	UNIT DIMS.	NOTES:
CH2-1 CH2-2 CH2-3	STERLING COMMERCIAL HYDRONIC	432–20	3.41	200 ° F	180°F	0.35 GPM	36.0"W 4.0"D 24.0"H	BOTTOM OF UNIT COVER MINIMUM 1" ABOVE COVE BASE (3" MIN ABOVE FINISHED FLOOR). COORDINATE COLOR WITH ARCHITECT.

JLE SPECIFICATION SECTION 238351)

MODEL	CFM	KW	MBH	UNIT DIMS.	ELECTRICAL	MOTORS	NOTES:
HER75	530	7.5	25.6	16.9"W 14.8"L 20.9"H	480V 3PH 60HZ 9.1 FLA 15A MOCP	1/40 HP	PROVIDE WALL—MOUNT THERMOSTAT CONTROL SET AT 65°F

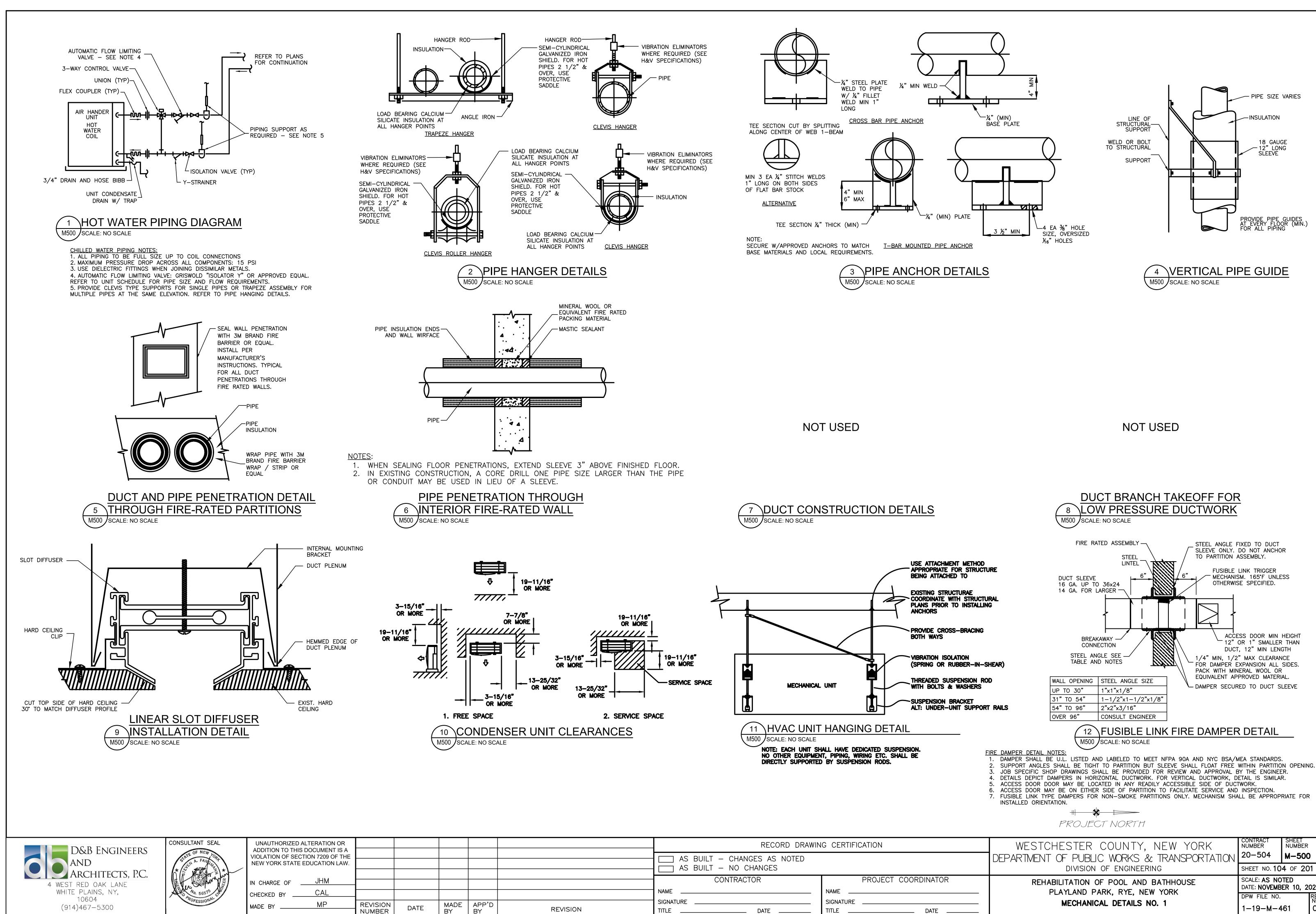
ECIFICATION SECTION 238600)

			/							
MODEL #	TYPE	RPM	CFM	S.P.	BHP	ΗP	SONES	VOLTS	WEIGHT	REMARKS
SQBA30	INLINE	589	7500	0.50"	1.12	1.5	10.0	208V 3ø		RUN ON OCCUPIED MODE VIA TIMECLOCK, PROVIDE WITH DISCONNECT SWITCH, WIRED BY E.C.
SQDA12	INLINE	770	635	0.12"	0.04	0.13	3.1	120V 1ø		FOR CONTINUOUS OPERATION. PROVIDE WITH DISCONNECT SWITCH, WIRED BY E.C.

			I	FAN COIL UN	NIT SCH	EDULE								INDOC	DR UNIT S	CHEDUL	E				
		MODEL	ASSOCAITI		0557/105		CFM		OLING HEATI OIL COI		ECTRICAL						REF. PIPE DIM	DRAIN PAN	COOLING HEAT COIL CO	ELECTRICAL	Ĺ
TAG	MANUFACTURER	MODEL	CONDENSER		SERVICE	CONTROLLER TYPE	(PEAK) (IN. WG.) TOTAL	L LOAD TOTAL I U/HR) (BTU/I	LOAD MCA/MI	FS V.PH.HZ	TAG MANUF/	ACTURER MODEL	TYPE	CONFIGURATION	LOCATION (FLOOR)	LIQ./SUCTION	(OD) TO	TAL LOAD TOTAL (BTU/HR) (BTU		H.HZ
FCU-1	TRANE/MITSUBISHI	TPEFYP012MA143A		MIXED AIR PLENUM BOX		MHK2 (WRELESS)	371		,000 13,50	1.20/1	5 208/1/60	IU-1 TRANE/M	ITSUBISHI TPLFYP008FMF140A		DUCTLESS	MALE RESTROOM	1/4 1/2	1-1/4"	8,000 9,0		3/1 <i>/</i> 60
FCU-2 FCU-3	TRANE/MITSUBISHI	TPEFYP012MA143A		MIXED AIR PLENUM BOX	STORE FRONT	MHK2 (WIRELESS) MHK2 (WIRELESS)	371 371		,000 13,50	1.20/1			ITSUBISHI TPLFYP005FMF140A ITSUBISHI TPLFYP008FMF140A		DUCTLESS DUCTLESS	IT CLOSET CORRIDOR	1/4 1/2 1/4 1/2	1-1/4"	5,000 5,6 8,000 9,0		3/1/60 3/1/60
FCU-4	TRANE/MITSUBISHI	TPEFYP030MA143A		MIXED AIR PLENUM BOX	STORE FRONT	MHK2 (WRELESS)	883		000 34,00	00 2.7/15			ITSUBISHI TPLFYP005FMF140A		DUCTLESS	IT CLOSET	1/4 1/2	1-1/4"	5,000 5,6		8/1/60
FCU-5 FCU-6	TRANE/MITSUBISHI	TPEFYP030MA143A		MIXED AIR PLENUM BOX	STORE FRONT	MHK2 (WIRELESS) MHK2 (WIRELESS)	883 883		000 34,00 000 34,00	2.1710			ITSUBISHI TPLFYP008FMF140A	CEILING CASSETTE	DUCTLESS	FEMALE RESTROOM	M 1/4 1/2	1-1/4"	8,000 9,0	.28/15 208/	3/1/60
FCU-7	TRANE/MITSUBISHI	TPEFYP048MH142A		MIXED AIR PLENUM BOX	particular and an experimental for the data second departure	TAR40-MAAU*	1342		000 54,00	2.7710	5 208/1/60	NOTES: 1. PROVIDE FACTORY SUPF	LIED GRILLE, WRED REMOTE SEN	SOR, REMOTE OPERATIN ADA	PTER, DRAIN PAN SENSO	DR, AND REMOTE CON	NECTOR				
FCU-8 FCU-9	TRANE/MITSUBISHI	TPEFYP048MH142A		MIXED AIR PLENUM BOX	EVENT SPACE	-	1342 1342		000 54,00 000 54,00	4.10/1	5 208/1/60		CEILING GRID PER MANUFACTURE								
FCU-10	TRANE/MITSUBISHI	TPEFYP048MH142		NO PLENUM BOX	EVENT SPACE	-	1342		000 54,00	4.10/1/		3. PROVIDE OPTIONAL CON 4. PROVIDE DECORATIVE PA	DENSATE LIFT MECHANISM. CONDI NEL ACESSORY	ENSATE DRAIN PIPING TO CON	NECT TO NEAREST SAN	ITARY RISER AS INDICA	ATED ON PLANS				
NOTES:												5. PROVIDE MHK2 CONTROL	LER AND INTERLOCK WITH CENTR	RAL TE 200A CONTROLLER. PR	OVIDE PAC-IT51 ADAPTE	RS FOR MHK2 CONTOL	LLER CONNECTI	IONS			
	ROLLERS SHALL BE FOR DLLERS SHALL BE TIED IN			-MAUU CONTROLLER FOR ALL ER	(4) EVENT SPACE F	CUs*															
					DA AT EACH BOX AT	SET TO VALUE INDICA	ATED ON PLAN	IS. RETURN BOX	TO HAVE WIRE	MESCH.											
4. PROVIDE FAC	CTORY SUPPLIED MERV1	3 FILTER OPTION FOR	ALL FCUs WITH M	1IXED AIR PLENUM BOXES																	
				CONDE	NSER U	NIT SCH	EDULI	E						EXPANSI	ON CONT	ROLLER					
						REF. PIPE DIM	COMPRESSO	EFFICIEN	CY COOLIN	g heating		ELECTRICAL		L EXPANSION SERVICE		ELEC	TRICAL	DIMENSIO			
TAG MANUF	ACTURER MODEL	YT	ſPE	SERVICE		REF. HIGH/LOW (IN)	TYPE/NO.	COOLING H	LOAD	LOAD	MCA REC FU	MOCP		VALVE	LUCATION	V-PH INPU	IT (KW) CURREI (A)	NT (HxWxD)		
CU-1 TRANE/M	ITSUBISHI TUHYE1923AM	140AN OUTDOOR COM	NDENSER (VRF)	STORE FRONTS, RESTROOMS	, AHU-1-1, AHU-2-3	R-410 5/8" / 1-1/8"	SCROLL / 1		4.04 192,000	 (BTU/HR) 215,000 	31 40		TRANE/MITSUBISHI PAC-AH00		BOILER MER		.012 0.055				
	ITSUBISHI TUHYP1923BN	140AN OUTDOOR COM	NDENSER (VRF)	EVENT SPAC	E	R-410 5/8" / 1-1/8"	SCROLL/2	28.15/13	4.06 192,000	215,000 15	5 (EACH) 20 (EA	CH) 20 (EACH) 460/3-PH-3-WRE	1 PROVIDE THESE EXPANSION	01-1 PACLV24AC-1 AHU-2-3 N VALVES/CONTROLLERS FOR			.012 0.055	5 19.5"x12.8x	4.7"		
NOTES: 1. PROMDE CE	NTRAL CONTROLLER TE-	200A TO CONTROLL AL	LL INDOOR UNIT C	CONTROLLERS									2. FINALIZE LOCATION OF PAN								
				DULD BE FINALIZED BASED UPC		PIPING LAYOUT							3. EACH EXPANSION VALVE SH 4. PROVIDE POWER SOURCE		EF. LINE TO THE RESPEC	CTIVE AHU PER MANUFA	ACTURER'S INST	RUCTIONS			
	INNING KIT (CUMY) FOR E		CONNECTED IND	OOR UNITS/FAN COIL UNITS/AIF	RHANDLERS								4. FROVIDE FOWER SOURCE	FOR EACH UNIT							
5. REF. PIPE DI	M. INDICATE TOTAL SYSTE	MCOMBINED DOWNS	TREAM OF MODUL	ETWNNING																	
			ERV	SCHEDULE							F4	N SCHEDUL	E (INSTALLED	UNDER SE	PARATE C	ONTRAC	:T)				
					1	RECOVERY EFFECTIVEN	NESS E	ELECTRICAL					-				-	TRICAL			
TAG MANUF	ACTURER MODEL	LOCATION	SERVICE	TYPE (CFI	M) (IN.WG) T	MP. ENTHALPY EI DVERY COOLING I	NTHALPY HEATING	A/MOCP V-PH	TAG	MANUFA	CTURER	MODEL LOC	ATION SERVICE	ТҮРЕ	DRIVE (CFM)	(IN. WG) HP	BHP	RPM	V-PH-HZ		
ERV-1 MITS	JBISHI TLGHF1200RX	501A EVENT SPACE	ENERGY RECOVE	RY FIXED PERMEABLE CROSS PLATE 120		7% 50%	64% 7	7.1/15 208-1	TEF-1	GREEN	IHECK	SQ-95-VG EVEN	SPACE TOILET EXHAUST	CENTRIFUGAL	DIRECT 725	1.20 0.100	0.09	1550	208-1		
NOTES:	60 DR CONTROLLER ANI	ALL CONTACTS REL		S NECESSARY FOR CONTROL	OPERATIONS				NOTES:	WALL-MOUNT	ED ON/OFF FAN	CONTROLLER									
	ERLOCK WITH MOTORIZE																				
	SHABLE PRE-FILTERS OF			ΕΕΔΝ								L SINGLE PHASE MOTORS.									
	NGER RODS AND SPRING								neede we in these hadden and	a ta ta ta ta ta ta ta ta	an 19 - Ku na wijaka Astrophysika na parao	VIBRATION ISOLATORS FOR IN LII									
	WALL-RE	CESSED		VATER RADI	ATOR			С	ABINE		IT HE	ATER SCHED	ULE			COULDI					
				GPM	PRESSURE		UIP. NO. MANU				SERVI				DIFFUSER	1					
				EWT (°F) EWT (°F	DROP (FT. H2O)	(HxLxD)		OFACTORER					V-P-HZ HP (WA				250 NEC	K SIZE (IN)			
	HNDER RITTLING PL-32			0.7 200 183.5 0.6 200 184.5	0.3				HS-100A E HS-018A		FREEZE PROTE		,000 11 120-1-60 1/12 (H 000 1.8 120-1-60 (16 WA			EXHAUST	50	4			
	HNDER RITTLING PL-18			0.4 200 186.4	0.2	18"X36"X4" NO										• · · · ·					
NOTES: 1. SPECIFY TO	P/BOTTOM/REVERSED PII	PING CONFIGURTAION	IS WHEN ORDERI	NG BASED ON FIELD INSTALLA	TION REQURIEMEN		PROMDE WITH	1 2 STAGE BUILT	-IN THERMOSTA	AT.											
	VERED OPENINGS																				
	TS WTH FRONT ACESS P BE SUPPLIED WTH 1/4"		and the set of the set	IECTIONS. SPECIFY ALLEN KEY	(
5. SPECIFY GAS		,	,																		
		VER SCH		E																	
EQUIP. NO.					(
L-1 E	XISTING AIR HANDLER	GREENHECK EC	CD-401 1950) (FPM)) 36"x36" (HxW) 367	_																
L-2 L-3 L-4	ERV-INTAKE ERV-EXHAUST TOILET EXHUAST	GREENHECK EC	CD-401 1200 CD-401 1200 CD-401 700	, , ,	_																
L-5 E	XISTING EXHAUST FAN V ACTUATOR FOR EACH E	GREENHECK EC	CD-401 1950	20 CONTRA	-																
	REMESH/BIRDSCREEN																				
										I											
			CONSULTANT	ADDITION	IORIZED ALTERA	IENT IS A									DRAWING CE	RTIFICATION				WESTCHES	
			S 42AN		N OF SECTION 72 RK STATE EDUCA									- CHANGES AS N - NO CHANGES	NOTED				DEPA	ARTMENT OF	PUBI DIVISIO
	A LiRo Engi	neers, Inc. Company		い CHARG	e of <u>fu</u>									CONTRACTOR		PROJECT	COORDINA	ATOR		REHABILITA	
	Syosset, N.Y.	516-214-8157[T]	What he	Den Checked	BY <u>CA</u>								NAME							PLAYL	LAND
			MOFE	MADE BY	NK	REVI NUM	ISION IBER	DATE	MADE AP BY BY	P'D		REVISION	TITLE	DATE		TURE	DA ⁻	TE		HANICAL EQUIPI	

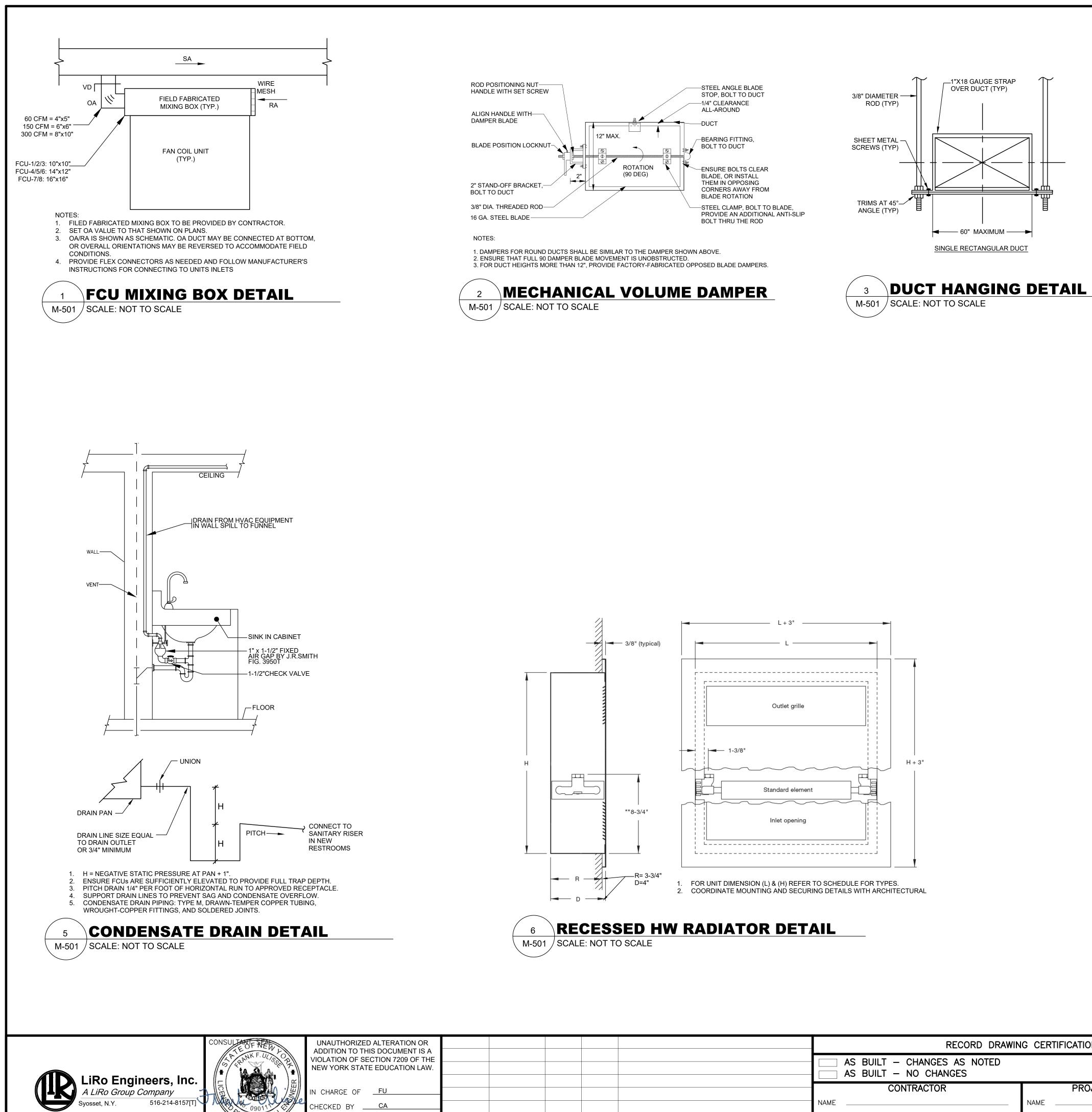
NECK SIZE (IN)
8
4

	WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION DIVISION OF ENGINEERING	CONTRACT NUMBER 20-504 SHEET NO. 10	SHEET NUMBER M-401 03 of 201
DATE	REHABILITATION OF POOL AND BATHHOUSE PLAYLAND PARK, RYE, NEW YORK MECHANICAL EQUIPMENT SCHEDULES — SOUTH EVENT SPACE	SCALE: DATE: NOVEMBER 10, 2020 DPW FILE NO. 1-19-M-460	



				RECORD DRAWING CERTIFICATION		
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IE			REVISION	TITLE DATE	TITLE	

SHEET NO. 104 OF 201 DATE: NOVEMBER 10, 2020



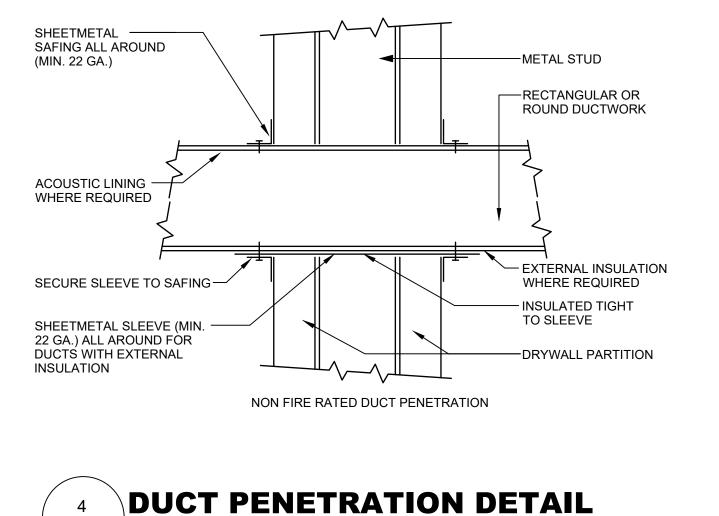
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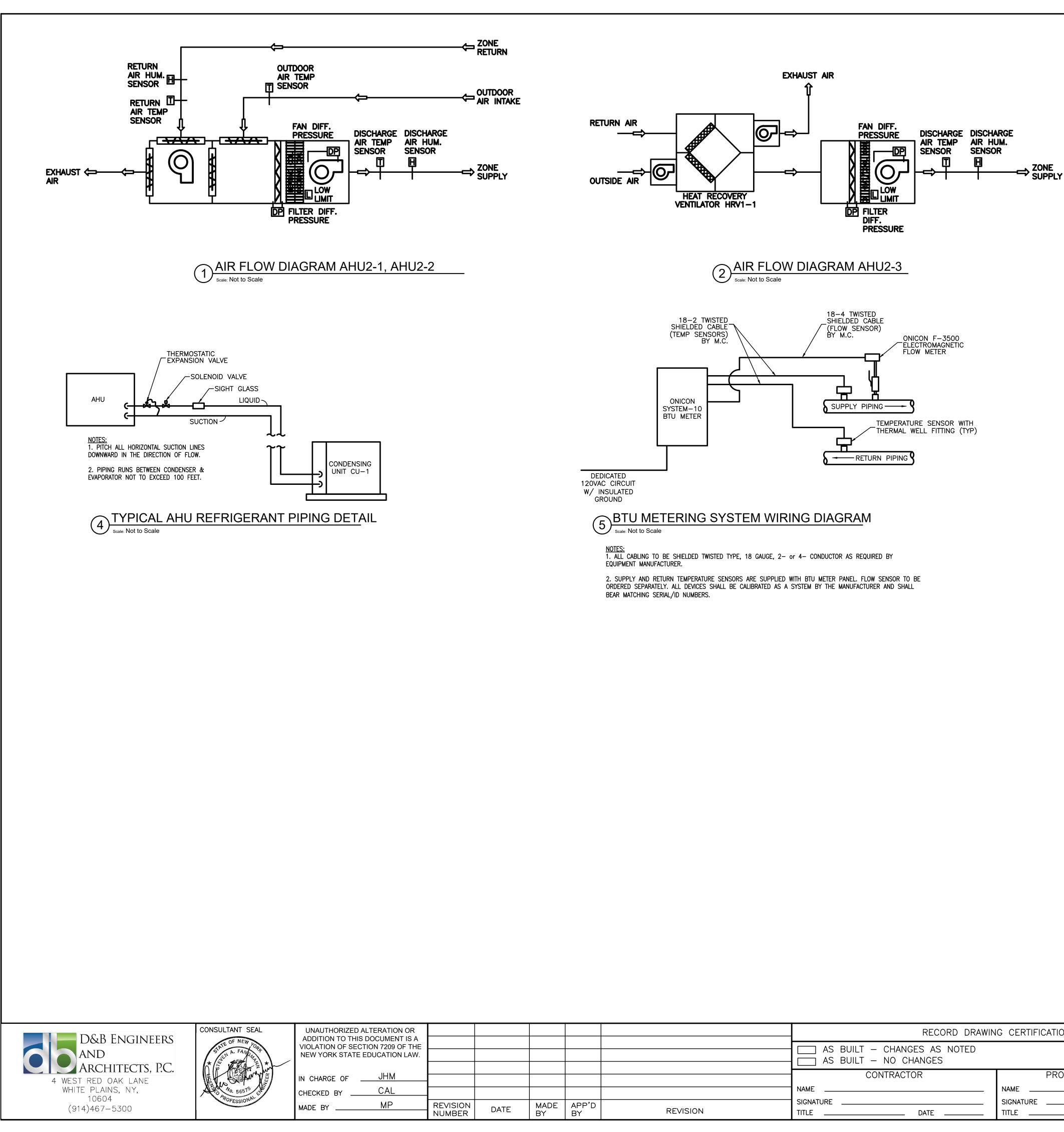
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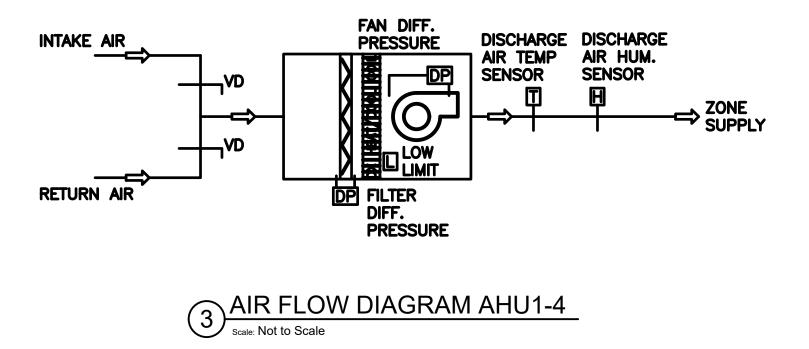


M-501 / SCALE: NOT TO SCALE

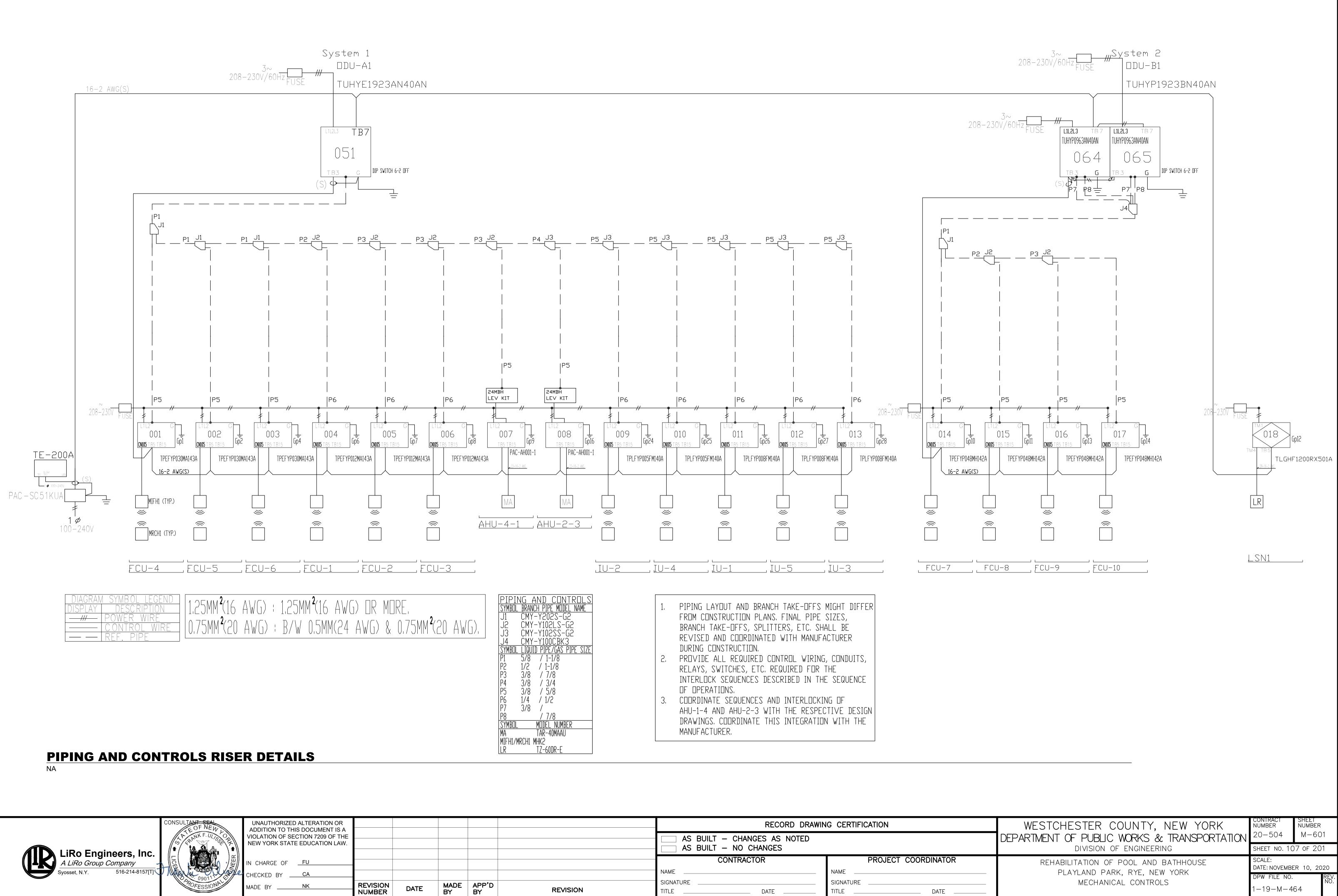
	WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION	contract number 20-504	sheet number M—501
	DIVISION OF ENGINEERING	SHEET NO. 10	5 of 201
INATOR	REHABILITATION OF POOL AND BATHHOUSE Playland park, rye, new york	SCALE: DATE: NOVEMBER 10, 2020	
DATE	MECHANICAL DETAILS NO 2	DPW FILE NO.	REV. NO. 52
DATE			52



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	WESTCHESTER COUNTY, NEW YORK DEPARTMENT OF PUBLIC WORKS & TRANSPORTATION	CONTRACT NUMBER 20-504	SHEET NUMBER M-600	
	DIVISION OF ENGINEERING	SHEET NO. 10	6 OF 20	1
NATOR	REHABILITATION OF POOL AND BATHHOUSE		TED ER 10, 20	020
	MECHANICAL FLOW & RISER DIAGRAMS	DPW FILE NO. 1–19–M–4		REV. NO. O
ATE	TUNNEL / BATHHOUSE / POOL DECK LEVEL		05	U



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1-19-M-464

DATE