

CONCORD TOWNSHIP FIRE STATION #2

CIVIL ENGINEER

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PROJECT DESIGN TEAM

STRUCTURAL ENGINEER

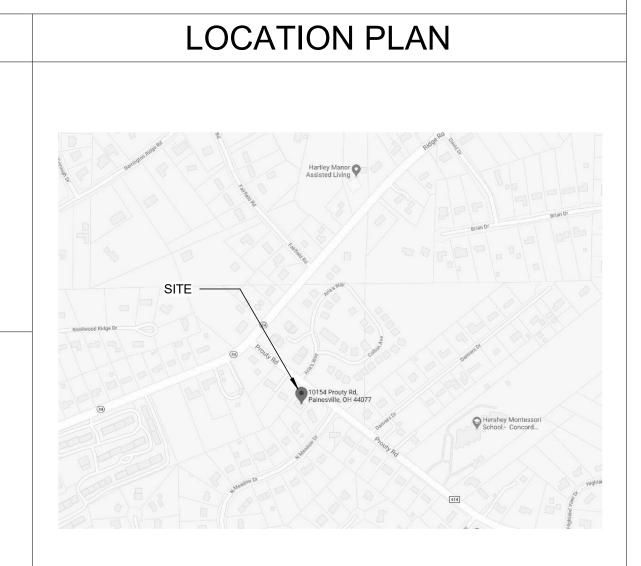
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MECHANICAL ELECTRICAL PLUMBING ENGINEER

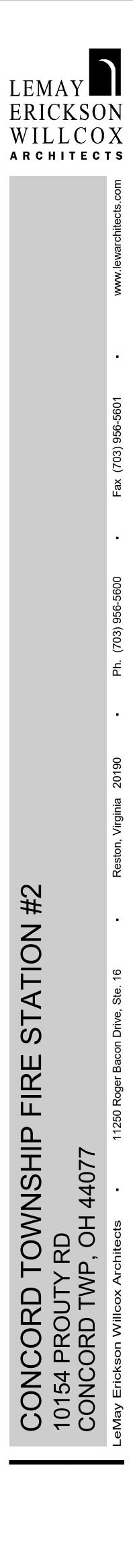
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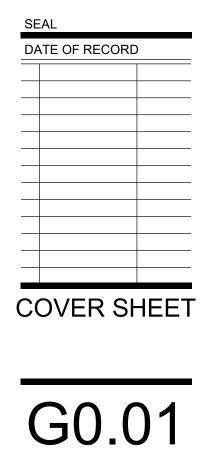
*PERSPECTIVE VIEW SHOWN FOR ILLUSTRATIVE PURPOSES ONLY



GENERAL	
G0.01	COVER SHEET
G0.02	ADA STANDARDS SHEET
G0.03	STANDARDS SHEET
G0.04	CODE REVIEW EGRESS PLAN
CIVIL	
C0.01	TOPOGRAPHIC & BOUNDARY SURVEY
C1.01	DEMO SITE PLAN
C2.01	SITE PLAN
	GRADING PLAN
C4.01	UTILITY PLAN
C5.01	
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ARCHITECT	
A0.01	DOOR SCHEDULE - DETAILS
A0.02	DOOR DETAILS
A0.04	WALL TYPES
A0.05	FINISH SCHEDULE
A1.07	UL DETAILS
A2.01	ARCHITECTURAL SITE PLAN
A3.01	FIRST AND MEZZANINE FLOOR PLANS
A3.02	REFLECTED CEILING PLANS
A4.01	ROOF PLAN
A5.01	BUILDING ELEVATIONS
A5.02	BUILDING SECTIONS
A5.03	WALL SECTIONS
A8.01	ENLARGED PLANS
A8.02	STORM SHELTER
A8.03	APPARATUS BAY ELEVATIONS
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-	ROOF AND MEZZANINE PLAN
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S3.02	FRAMING SECTIONS
S3.03	FOUNDATION DETAILS
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M5.03	MECHANICAL DETAILS
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P1.02	MEZZANINE PLUMBING PLAN
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ELECTRICA	
E0.01	ELECTRICAL SYMBOLS AND ABBREVIATIONS
E1.01	ELECTRICAL SITE PLAN
E1.01 E1.02	ELECTRICAL SITE PLAN ELECTRICAL SITE SECTION AND DETAILS
E2.01 E3.01	FIRST FLOOR AND MEZZANINE LIGHITING PLANS FIRST FLOOR AND MEZZANINE POWER PLANS
E3.01 E3.02	
	ROOF POWER PLAN FIRST FLOOR AND MEZZANINE FIRE ALARM PLANS
E4.01	
E5.01	
E6.01	ONE-LINE DIAGRAM
TEOLINIA	
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T0.01	TECHNOLOGY SYMBOLS AND ABBREVIATIONS
T1.01	FIRST FLOOR TECHNOLOGY & SECURITY PLAN
T1.02	MEZZANINE TECHNOLOGY & SECURITY PLAN
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FIRE PROT	
FP0.01	GENERAL INFO - FIRE PROTECTION
FP1.01	FIRST FLOOR - FIRE PROTECTION PLAN
FP1 02	MEZZANINE FIRE PROTECTION PLAN

FP1.02 MEZZANINE FIRE PROTECTION PLAN





PROJECT NO. LEWA-21820

	MECHANICAL ABBREVIATIONS
	NOTE: NOT ALL ABBREVIATIONS MAY BE USED.
ABBREVIATION	DESCRIPTION
	EXISTING TO BE DEMOLISHED
(D) (E)	EXISTING TO BE DEMOLISTED
(E)	FUTURE
AFF	ABOVE FINISHED FLOOR
AMB	AMBIENT
APD	AIR PRESSURE DROP
BAS	BUILDING AUTOMATION SYSTEM
BFP	BACKFLOW PREVENTOR
BHP	BRAKE HORSEPOWER
BLDG	BUILDING
BOB	BOTTOM OF BEAM
BOD	BOTTOM OF DUCT
BOP	BOTTOM OF PIPE
BOS	BOTTOM OF STRUCTURE
BTUH	BRITISH TEHRMAL UNITS PER HOUR
CFM	
CL	
CO	
COMPR	
COP	
CV	
DB	
DIA	DIAMETER
DN	DOWN
EAT	ENTERING AIR TEMPERATURE
EER EFF	ENERGY EFFICIENCY RATIO EFFICIENCY
EFF	ETHYLENE GLYCOL
EG	EXTERNAL STATIC PRESSURE
ESP	ENTERING WATER TEMPERATURE
FLA	FULL LOAD AMPS
FPI	FINS PER INCH
FPM	FEET PER MINUTE
FPS	FEET PER SECOND
FT	FEET
GAL	GALLONS
GPM	GALLONS PER MINUTE
HD	HEAD
HP	HORSEPOWER
ID	INNER DIAMETER
IPLV	INTEGRATED PART LOAD VALUE
KW	KILOWATTS
LAT	LEAVING AIR TEMPERATURE
LWT	LEAVING WATER TEMPERATURE
MBH	THOUSAND BTUH
MCA	MAXIMUM CURRENT AMPACITY
MFR	MANUFACTURER
MOCP	MAXIMUM OVERCURRENT PROTECTION
N/A	NOT APPLICABLE
NC	NORMALLY CLOSED
NO	NORMALLY OPEN
NOX	
NPLV	NON-STANDARD PART LOAD VALUE
NPSH	NET POSITIVE SUCTION HEAD
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER PRESSURE DROP
PD PG	PRESSURE DROP PROPYLENE GLYCOL
PG PPH	PROPILENE GLICOL POUNDS PER HOUR
PPM	PARTS PER MILLION
PRV	PRESSURE REDUCING VALVE
PSI	PUNDS PER SQUARE INCH
REFRIG	REFRIGERANT
RH	RELATIVE HUMIDITY
RPM	REVOLUTIONS PER MINUTE
SEER	SEASONAL ENERGY EFFICIENCY RATIO
SP	STATIC PRESSURE
TSP	TOTAL STATIC PRESSURE
TYP	TYPICAL
UNO	UNLESS NOTED OTHERWISE
VAV	VARIABLE AIR VOLUME
VFD	VARIABLE FREQUENCY DRIVE
VRF	VARIABLE REFRIGERANT FLOW
W	WATTS
WB	WET BULB
WG	WATER GAUGE
WPD	WATER PRESSURE DROP

MECHANICAL SYSTEM TYPES AND ABBREVIATIONS

WATER PRESSURE DROP

WPD

	NOTE: NOT ALL ABBREVIATIONS MAY BE USED.
ABBREVIATION	DESCRIPTION
CHR	CHILLED WATER RETURN
CHS	CHILLED WATER SUPPLY
CWR	CONDENSER WATER RETURN
CWS	CONDENSER WATER SUPPLY
D	DRAIN
EA	EXHAUST AIR
GR	GEOTHERMAL RETURN
GS	GEOTHERMAL SUPPLY
HR	HEAT PUMP RETURN
HS	HEAT PUMP SUPPLY
HWR	HEATING HOT WATER RETURN
HWS	HEATING HOT WATER SUPPLY
MW	MAKEUP WATER - GENERIC
OA	OUTDOOR AIR
PC	PUMPED CONDENSATE
R	REFRIGERANT
RA	RETURN AIR
REL	RELIEF AIR
SA	SUPPLY AIR
V	VENT
MECHANIC	AL STEAM SYSTEM TYPES AND ABBREVIATIONS
	NOTE: NOT ALL ABBREVIATIONS MAY BE USED.
ABBREVIATION	DESCRIPTION

	NOTE: NOT ALL ABBREVIATIONS MAY BE USED.
ABBREVIATION	DESCRIPTION
BBD	STEAM BOILER BOTTOM BLOWDOWN
BD	STEAM BOILER BLOWDOWN
BFW	STEAM BOILER FEEDWATER
CBD	STEAM BOILER CONTINUOUS BLOWDOWN
CF	CHEMICAL FEED
CLPS(PSI)	CLEAN LOW PRESSURE STEAM (PSI)
HPC	HIGH PRESSURE STEAM CONDENSATE
HPS(PSI)	HIGH PRESSURE STEAM (PSI) = 60 PSI AND ABOVE
LPC	LOW PRESSURE STEAM CONDENSATE
LPS(PSI)	LOW PRESSURE STEAM (PSI) = 15PSI AND BELOW
MPC	MEDIUM PRESSURE STEAM CONDENSATE
MPS(PSI)	MEDIUM PRESSURE STEAM (PSI) = 16 PSI - 59 PSI
PSC	PUMPED STEAM CONDENSATE
SV	STEAM VENT
VSC	VACUUM STEAM CONDENSATE

SYMBOL	T ALL SYMBOLS MAY BE USED. DESCRIPTION
$\overline{\langle 1 \rangle}$	KEYNOTE (SEE LEGEND ON SHEET)
	AIRFLOW ARROW
	FLOW ARROW
	CONNECT TO EXISTING
	END OF DEMOLITION
	PIPE CAPPED
	PIPE DROP
0	PIPE RISE
	PIPE TEE DOWN
	PIPE REDUCER
	PIPE UNION
	PIPE GUIDES OR SLEEVES
	PIPE ANCHOR
	FLEXIBLE PIPE CONNECTION
	GENERAL SERVICE VALVE (SEE SPECIFICATI
\bowtie	FOR VALVE TYPE PER APPLICATION)
	CHECK VALVE (ARROW INDICATES DIRECTION OF FLOW)
 ₩	MANUAL BALANCING VALVE
<u>№1</u>	AUTOMATIC BALANCING VALVE
⊗ &	TWO-WAY CONTROL VALVE
 &	THREE-WAY CONTROL VALVE
	TWO-WAY PRESSURE INDEPENDENT
	CONTROL AND BALANCE VALVE
Å	PRESSURE REDUCING VALVE
ل ا	STEAM PRESSURE REGULATING VALVE
2	RELIEF VALVE
	DRAIN VALVE WITH THREADED
<u> </u>	HOSE CONNECTION
	REDUCED PRESSURE BACKFLOW PREVENTE
Q X	PRESSURE GAUGE WITH STOPCOCK
Ŕ	STRAINER WITH BLOW DOWN VALVE
₽ AV	AUTOMATIC AIR VENT
	MANUAL AIR VENT
Y	TEMPERATURE/PRESSURE TEST PLUG (PETE'S PLUG)
\boxtimes	STEAM TRAP
∥co Oco	CLEAN OUT
	FLOW METER
П	THERMOMETER
	PITCH DOWN IN DIRECTION OF ARROW
H	HUMIDISTAT WITH ADJUSTABLE CONTROL
T	THERMOSTAT WITH ADJUSTABLE CONTROL
Н	HUMIDITY SENSOR
T	TEMPERATURE SENSOR
CO2	CARBON DIOXIDE SENSOR
СО	CARBON MONOXIDE SENSOR
NO2	NITROGEN DIOXIDE SENSOR

MECHANIC	AL SYMBOLS LIST CONT.
NOTE: NO	T ALL SYMBOLS MAY BE USED. DESCRIPTION
	SUPPLY DIFFUSER WITH FLEXIBLE DUCT
	TAG - NECK SIZETAG EXAMPLE:S1-6øAIRFLOW (CFM)100
	SUPPLY DIFFUSER
	TAG - NECK SIZE AIRFLOW (CFM)TAG EXAMPLE:S1-6ø 100
	RETURN/EXHAUST GRILLE R1 500
	$\frac{\text{TAG}}{\text{AIRFLOW (CFM)}} \xrightarrow{\text{TAG EXAMPLE:}} \frac{500}{\underline{\text{E1}}}$
	SIDEWALL SUPPLY DIFFUSER
↓ ↓ → →	TAG - NECK SIZE AIRFLOW (CFM)TAG EXAMPLE: 100S2-12x8 100
	SIDEWALL RETURN/EXHAUST GRILLE R2 100
	$\frac{\text{TAG}}{\text{AIRFLOW (CFM)}} \qquad \frac{\text{TAG EXAMPLE:}}{100}$
	DAMPERS/DUCT ACCESSORIES BDD: BACKDRAFT DAMPER
	FSD: FIRE/SMOKE DAMPER FD: FIRE DAMPER
	MD: MOTORIZED DAMPER SD: SMOKE DAMPER
	VD: VOLUME DAMPER SB: SECURITY BARS
	SUPPLY AND OUTDOOR AIR RECTANGULAR DUCT ELBOW UP
	OVAL DUCT ELBOW UP
	RETURN, RELIEF, AND EXHAUST AIR RECTANGULAR DUCT ELBOW
	UP OVAL DUCT ELBOW UP
	ROUND DUCT ELBOW UP SUPPLY AND OUTDOOR AIR
↓ [×]	RECTANGULAR DUCT ELBOW DOWN
	OVAL DUCT ELBOW DOWN
60 4	ROUND DUCT ELBOW DOWN
	RETURN, RELIEF, AND EXHAUST AIR
	RECTANGULAR DUCT ELBOW DOWN
	OVAL DUCT ELBOW DOWN
	ROUND DUCT ELBOW DOWN
	NEW WORK DUCTWORK
	EXISTING DUCTWORK
	DEMOLITION DUCTWORK
	NEW WORK PIPING
	EXISTING PIPING
	DEMOLISHED PIPING
	NEW WORK MECHANICAL EQUIPMENT
	(WITH CLEARANCE SHOWN)
	EXISTING MECHANICAL EQUIPMENT
	DEMOLISHED MECHANICAL EQUIPMENT
	GENERIC FAN
\bigwedge	GENERIC PUMP
	ACCESS DOOR
لت شا	
	VAV TERMINAL BOX (WITH REHEAT)
l D	VAV TERMINAL BOX (NO REHEAT)
	TERMINAL BOX NOTES
	1. IF MIN COOLING CFM IS NOT SHOWN ON PLANS, THEN MIN COOLING CFM IS EQUAL
	TO 65% OF MAX COOLING CFM.
	2. HEATING CFM IS EQUAL TO MIN COOLING CFM.
	DUCTWORK PLANS TAG
	MAX COOLING CFM / MIN COOLING CFM
	PIPING PLANS
	GPM
	DUCTWORK PIPING
	TAG EXAMPLES:DUCTWORK PLANSPIPING PLANSTB1TB1TB1500/2005000.5

MECHANICAL CONTROLS SYMBOLS LIST

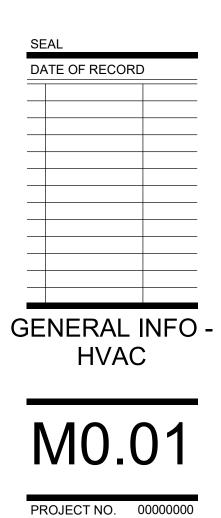
MECHANICAL CO	DNTROLS SYMBOLS LIST
NOTE: NOT AL	L SYMBOLS MAY BE USED.
SYMBOL	DESCRIPTION
AF	AIR FLOW MEASURING DEVICE
AS	AIR SWITCH
СТ	CONDUCTIVITY TRANSMITTER
CS	CURRENT SENSOR
DP	DIFFERENTIAL PRESSURE TRANSMITTER
EPT	ELECTRONIC PNEUMATIC TRANSDUCER
ES	END SWITCH
FM	FLOW METER
HOA	HAND-OFF-AUTO SWITCH
LT	LEVEL TRANSMITTER
M	METER
PHT	PH TRANSMITTER
PS	PRESSURE SWITCH
PT	PRESSURE TRANSMITTER
SD	SMOKE DETECTOR
гX	STARTER
TS	TEMPERATURE SWITCH
VFD	VARIABLE FREQUENCY DRIVE
VT	VIBRATION TRANSMITTER
FS	WATER FLOW SWITCH

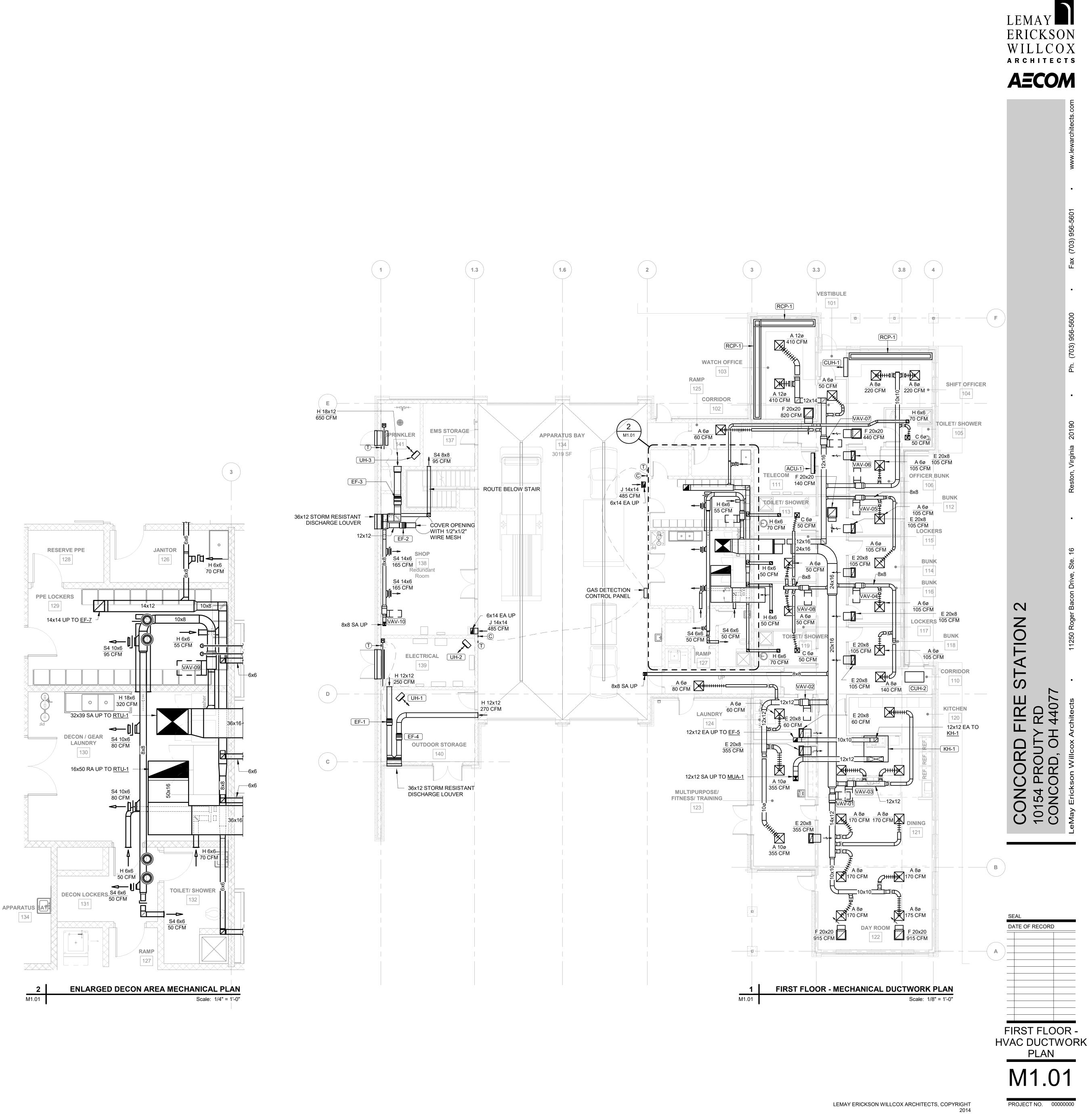
MECHANICAL GENERAL NOTES

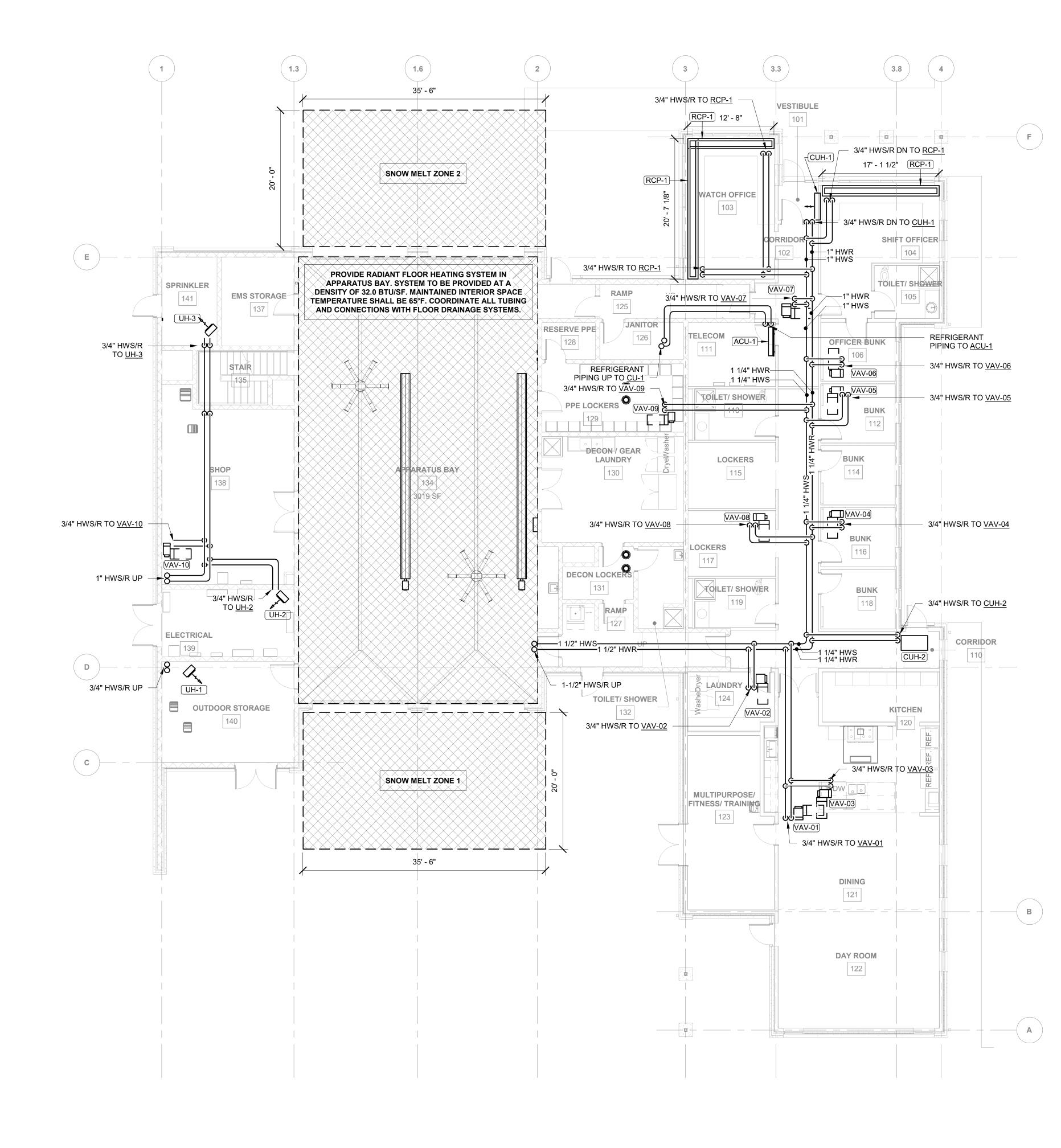
- VISIT THE SITE OF THE WORK TO GAIN AN ACCEPTABLE KNOWLEDGE OF CONDITIONS AFFECTING THE EXECUTION OF THE WORK. AFTER VISITING THE SITE, REQUEST SUCH INFORMATION AND/OR CLARIFICATIONS AS NECESSARY TO FULLY UNDERSTAND THE WORK REQUIRED AND TO PROPERLY ESTIMATE COSTS. REVIEW ALL DRAWINGS TO VERIFY EXTENT AND SCHEDULING OF ALL DEMOLITION
- ACTIVITIES PRIOR TO COMMENCING DEMOLITION WORK. FIELD VERIFY ALL SIZES AND LOCATIONS OF EXISTING DUCTWORK AND PIPING TO REMAIN. NOTIFY ARCHITECT/ENGINEER OF DEVIATIONS WHICH AFFECT RENOVATION WORK PRIOR TO PROCEEDING WITH THE WORK.
- ITEMS NOTED TO BE DEMOLISHED INCLUDES BUT IS NOT LIMITED TO ALL ASSOCIATED COMPONENTS, CONTROL WIRING, PIPING, DUCTWORK, ELECTRICAL CONNECTIONS, SUPPORTS, INSULATION, ETC. COORDINATE WITH OTHER TRADES AS REQUIRED.
- ALL WORK IS TO BE PHASED AS INDICATED ON THE ARCHITECTURAL DRAWINGS. COORDINATE PHASING OF ALL DEMOLITION, RENOVATION, AND NEW WORK WITH OTHER TRADES. CLOSELY COORDINATE PHASING OF WORK WITHIN CORRIDORS WITH THE OWNER. CORRIDORS CANNOT BE COMPLETELY CLOSED OFF TO PEDESTRIAN TRAFFIC. TO ACCOMMODATE PHASING, CORRIDOR ACCESS WORK MAY NEED TO BE PERFORMED DURING OFF PEAK PERIODS. PRIOR TO MOVING ON TO THE NEXT PHASE, ALL WORK IN PREVIOUSLY PHASED AREAS MUST BE COMPLETE AND OPERATIONAL.
- ENSURE THAT THE WORK WILL NOT INTERFERE OR INTERRUPT SERVICES TO AREAS OUTSIDE OF THE DESIGNATED CONTRACT AREAS. SCHEDULE ALL WORK AS TO CAUSE MINIMAL SERVICE INTERRUPTIONS FOR THE OWNER. UNAVOIDABLE INTERRUPTIONS ARE TO BE SCHEDULED WITH THE OWNER NO LESS THAN TWO WEEKS PRIOR TO THEIR EXPECTED COMMENCEMENT. WORK SHALL BE PERFORMED AT SUCH TIMES AS DIRECTED BY THE OWNER AND, IF POSSIBLE, ARE TO OCCUR DURING OFF PEAK PERIODS.
- THE CONTRACTOR IS TO VERIFY THE EXACT SERVICE OF ANY EXISTING PIPING OR DUCTWORK PRIOR TO INSTALLING ANY NEW CONNECTIONS. ANY DISCREPANCIES BETWEEN THE CONSTRUCTION DOCUMENTS OR THE DESIGN INTENT AND ACTUAL CONDITIONS ARE TO BE BROUGHT TO THE ATTENTION OF THE ENGINEER IMMEDIATELY, PRIOR TO FABRICATION OR INSTALLATION.
- CONTRACTOR SHALL REMOVE AND REPLACE EXISTING LAY-IN CEILING GRID AND TILES AS NECESSARY TO COMPLETE ABOVE CEILING WORK. RETURN CEILING TO ORIGINAL CONDITION FOLLOWING COMPLETION OF CONSTRUCTION. EACH TRADE SHALL PAY THE GENERAL CONTRACTOR TO PATCH FLOOR SLAB AND WALL PENETRATIONS TO MATCH EXISTING WHERE THEIR PIPING, DUCT OR
- EQUIPMENT IS BEING REMOVED OR INSTALLED. ALL ROOFING MODIFICATIONS SHALL BE DONE BY OWNER'S ROOFING VENDOR TO MAINTAIN ANY AND ALL WARRANTIES. COST TO BE INCLUDED IN THIS CONTRACT UNLESS SPECIFICALLY INCLUDED IN GENERAL TRADES CONTRACTOR'S SCOPE OF WORK.
-). INSULATE DUCTWORK AND PIPING WHERE EXISTING INSULATION HAS BEEN DAMAGED AND/OR REMOVED IN THE PERFORMANCE OF WORK FOR THIS PROJECT. . FOR RENOVATION WORK, IT IS PROHIBITED TO SUSPEND NEW WORK FROM THE EXISTING FLOOR SLAB OR ROOF DECK.
- . INSTALL ALL WORK TO COMPLY WITH ALL LAWS, REGULATIONS, CODES, AND STANDARDS (FEDERAL, STATE, AND LOCAL), AS ADOPTED BY THE AGENCIES HAVING JURISDICTION, INCLUDING REASONABLY ANTICIPATED REVISIONS BASED ON EMERGING TRENDS IN BUILDING REGULATIONS. WHERE ANY OF THESE DIFFER, THE MOST STRINGENT SHALL APPLY.
- 3. CONTRACT DOCUMENTS FOR MECHANICAL WORK ARE SCHEMATIC IN NATURE AND ARE INTENDED TO CONVEY SCOPE AND GENERAL ARRANGEMENT ONLY. I. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS AND
- SPECIFICATIONS. INCLUDE ALL NECESSARY AND APPLICABLE APPURTENANCES, WHETHER INDICATED OR NOT. 5. ANY DEVIATIONS FROM THE BASIS OF DESIGN THAT REQUIRE ADDITIONAL
- PROVISIONS SHALL BE THE RESPONSIBILITY OF THE CONTRACTOR. COORDINATE THE EXACT REQUIREMENTS AND LOCATION OF WORK WITH THE WORK OF OTHER TRADES PRIOR TO FABRICATION AND INSTALLATION. PROVIDE ADDITIONAL OFFSETS AND SECTIONS IN DUCTWORK AND/OR PIPING REQUIRED TO MEET THE APPLICABLE JOB CONDITION REQUIREMENTS, VERIFY JOB SITE ELEVATIONS. DIMENSIONS, AND CONDITIONS, PRIOR TO FABRICATION OR INSTALLATION OF THE WORK. COORDINATE EXACT ROUTING OF DUCTWORK AND PIPING WITH OTHER TRADES SO THAT NO CONFLICTS OCCUR WITH DUCTWORK. PIPING, LIGHTS. STRUCTURE, ETC. PROVIDE ALL PERTINENT DATA CONCERNING THE LOCATION, DIMENSIONS, ETC., OF THE MECHANICAL EQUIPMENT THAT REQUIRES BASES, CURBS
- AND SUPPORTS TO THE APPROPRIATE TRADES. 7. WHERE CEILINGS ARE INDICATED, ALL DUCTS AND PIPES SHALL BE RAN ABOVE CEILING. IN EXPOSED CONDITIONS, INSTALL DUCTWORK AND PIPING TIGHT TO THE BOTTOM OF STRUCTURE.
- 8. ALL RATED WALL AND FLOOR PENETRATIONS ARE TO BE SEALED WATER TIGHT AND PACKED WITH FIRE STOP MATERIAL. 19. ALL ITEMS THAT REQUIRE MAINTENANCE OR ADJUSTMENT MUST BE INSTALLED IN
- ACCESSIBLE LOCATIONS. PROVIDE AN APPROPRIATELY SIZED ACCESS DOOR AS REQUIRED. 0. ALL SEALS, BEARINGS, PACKINGS, AND ACCESSORIES FOR ALL EQUIPMENT AND PIPING SPECIALTIES SHALL BE SUITABLE FOR THE CONTINUOUS OPERATIONAL
- TEMPERATURES, PRESSURES AND CHARACTERISTICS, OF THE SYSTEM THEY SERVE. 1. PERFORM A COMPLETE AIR AND WATER SYSTEM FLOW BALANCE FOR ALL EQUIPMENT THAT IS SHOWN, SCHEDULED OR OTHERWISE IDENTIFIED, AT THE END OF CONSTRUCTION.
- 22. INSTALL EQUIPMENT, MATERIALS, ETC. IN STRICT ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND DIRECTION. PROVIDE STRAIGHT INLET AND OUTLET DUCTS/PIPES BASED ON MANUFACTURER'S RECOMMENDATIONS. IF IN CONFLICT WITH THE DESIGN INDICATED HEREIN, ADVISE THE ENGINEERS PRIOR TO INSTALLATION FOR CLARIFICATION.
- 3. COORDINATE THE EXACT LOCATIONS OF DIFFUSERS, GRILLES AND REGISTERS WITH ARCHITECTURAL REFLECTED CEILING PLANS, AREA SMOKE DETECTORS, SPRINKLERS, LIGHTS AND ELECTRICAL DEVICES. AIR DEVICES SHALL NOT BE WITHIN 3 FEET OF AN AREA SMOKE DETECTOR.
- . UNLESS NOTED OTHERWISE, PROVIDE BRANCH DUCT TO DIFFUSERS SAME SIZE AS DIFFUSER NECK. FLEXIBLE DUCT CONNECTION TO THE DIFFUSER SHALL BE NO MORE THAN FIVE FEET IN LENGTH. ALL BRANCH DUCT TAKEOFFS TO AIR DEVICES SHALL HAVE A MANUAL BALANCING DAMPER INSTALLED IN AN ACCESSIBLE LOCATION.
- 5. AIR DEVICES PROVIDED WITH INTEGRAL BALANCE DAMPERS DO NOT REQUIRE ADDITIONAL BALANCING DAMPER AT AIR DEVICE BRANCH TAKEOFF. 6. PROVIDE ROOM TEMPERATURE THERMOSTATS FOR ALL EQUIPMENT THAT MAINTAINS SPACE TEMPERATURE. PREFERRED LOCATIONS ARE SHOWN ON THE PLANS. THERMOSTATS SHALL BE MOUNTED AT 48" ABOVE FINISHED FLOOR, UNLESS NOTED OTHERWISE. COORDINATE THE EXACT LOCATIONS OF THERMOSTATS WITH MARKERBOARDS, SWITCHES, AND ANY OTHER WALL MOUNTED FIXTURES PRIOR TO ROUGH IN.
- 7. UNLESS NOTED OTHERWISE, MINIMUM PIPE SIZE TO TERMINAL EQUIPMENT SHALL BE 3/4 INCH AND MINIMUM FLOW SHALL BE 0.5 GPM. 28. PROVIDE SHUT-OFF VALVES WITHIN ALL SUPPLY PIPING BRANCH TAKEOFFS FROM MAINS. PROVIDE A MANUAL BALANCE VALVE AND A SEPARATE SHUT-OFF VALVE WITHIN ALL RETURN PIPING BRANCH TAKE-OFFS FROM MAINS. LOCATE VALVES IN
- ACCESSIBLE LOCATIONS. 9. INSTALL ALL PIPING IN LOCATIONS AND ELEVATIONS SUCH THAT COILS, TUBES, AND FILTERS CAN BE REMOVED AND REPLACED WITHOUT MAJOR PIPING REMOVAL. LOCATE VALVES IN APPROPRIATE PLACES TO ACCOMMODATE MAINTENANCE. FOR GRAVITY FLOW PIPING, ADEQUATE SLOPE SHALL BE PROVIDED.
- 30. INSTALL TWO-WAY CONTROL VALVES ON ALL EQUIPMENT UNLESS NOTED OTHERWISE. 1. AT TIME OF ROUGH INSTALLATION, DURING STORAGE ON THE CONSTRUCTION SITE, AND UNTIL FINAL STARTUP OF THE HEATING AND COOLING EQUIPMENT, ALL DUCT AND OTHER RELATED AIR DISTRIBUTION COMPONENT OPENINGS SHALL BE COVERED WITH TAPE, PLASTIC, SHEET METAL OR OTHER METHODS ACCEPTABLE FOR PROTECTION TO THE ENFORCING AGENCY TO REDUCE THE AMOUNT OF DUST OR DEBRIS WHICH MAY COLLECT IN THE SYSTEM(S).
- 2. IN MECHANICALLY VENTILATED BUILDINGS, PROVIDE REGULARLY OCCUPIED AREAS OF THE BUILDING WITH AIR FILTRATION MEDIA FOR OUTSIDE AND RETURN AIR THAT PROVIDES AT LEAST A MINIMUM EFFICIENCY REPORTING VALUE (MERV) OF 8 PRIOR TO OCCUPANCY. FILTERS SHALL BE CHANGED PRIOR TO AIR BALANCE AND COMMISSIONING, AND AGAIN AT THE COMPLETION OF CONSTRUCTION JUST PRIOR TO OCCUPANCY OF THE BUILDING WITH FINAL FILTERS PER SPECIFICATIONS. MAINTENANCE RECOMMENDATIONS FOR FILTERS OF THE SAME VALUE SHALL BE INCLUDED IN THE OPERATION AND MAINTENANCE MANUAL.
- 3. INSTALLATION OF HVAC, REFRIGERATION, AND FIRE SUPPRESSION EQUIPMENT SHALL NOT CONTAIN ANY CFCS OR HALONS. 4. ALL SUPPORTS FOR EQUIPMENT, DUCTWORK AND PIPING SYSTEMS, DEVICES SHALL
- BE FROM THE BUILDING STRUCTURE. SUPPORT FROM STRUCTURAL BRIDGING IS UNACCEPTABLE. 5. INSTALL NO PIPING, CONDUIT, DUCTWORK, ETC., IN A LOCATION OR IN A MANNER THAT
- WILL ALLOW FREEZING AND/OR THE COLLECTION OF CONDENSATION. 6. CONTRACTOR IS RESPONSIBLE FOR DRAINING, FLUSHING, PURGING, AND FILLING ALL PIPING SYSTEMS AS REQUIRED. THESE SYSTEMS INCLUDE (BUT MAY NOT BE LIMITED TO): HEATING HOT WATER SYSTEMS, CHILLED WATER SYSTEMS, BUILDING STEAM SYSTEMS, ALL REQUIRED CHEMICAL TREATMENT SYSTEMS, CONDENSER WATER SYSTEMS (AND COOLING TOWER SUMPS), WATER-SOURCE HEAT PUMP LOOP SYSTEMS, GROUND-SOURCE HEAT PUMP LOOP SYSTEMS, AND MAKE-UP WATER CONNECTIONS.



CONCORD FIRE STATION 2	FATION 2							
10154 PROUTY RD CONCORD, OH 44077								
LeMay Erickson Willcox Architects	11250 Roger Bacon Drive, Ste. 16	ŀ	Reston, Virginia 20190	ŀ	Ph. (703) 956-5600	ŀ	Fax (703) 956-5601	www.lewarchitects.com



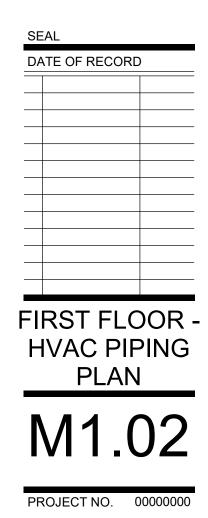


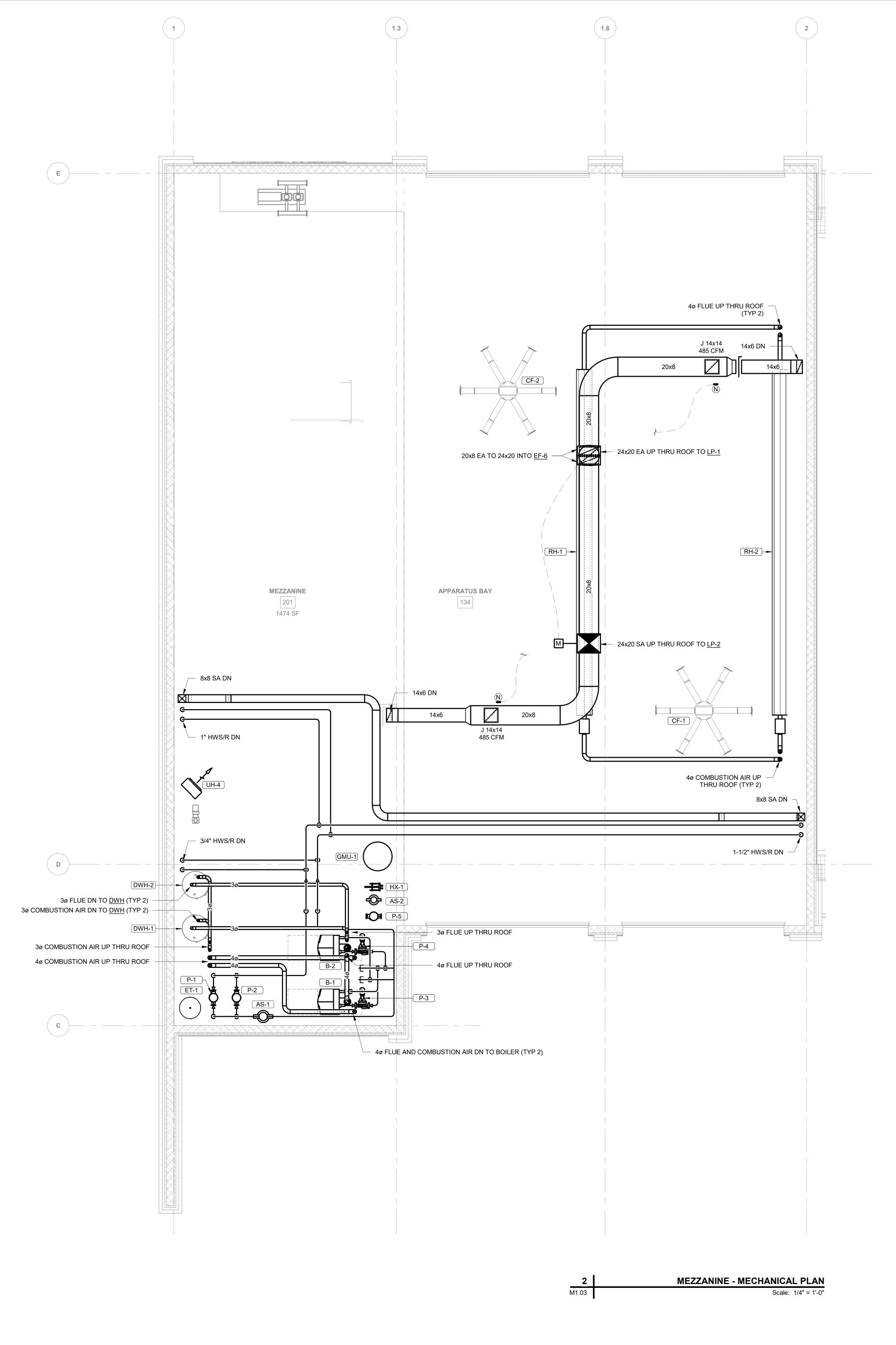


FIRST FLOOR - MECHANICAL PIPING PLAN **1** M1.02 Scale: 1/8" = 1'-0"



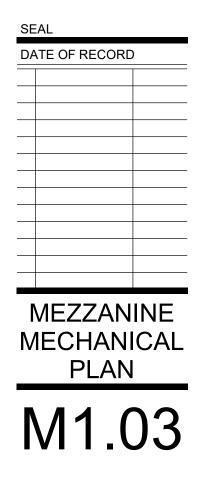
CONCORD FIRE STATION 2							
10154 PROUTY RD CONCORD, OH 44077							
LeMay Erickson Willcox Architects • 11250 Roger Bacon Drive, Ste. 16	ŀ	Reston, Virginia 20190	ŀ	Ph. (703) 956-5600	·	Fax (703) 956-5601	www.lewarchitects.com

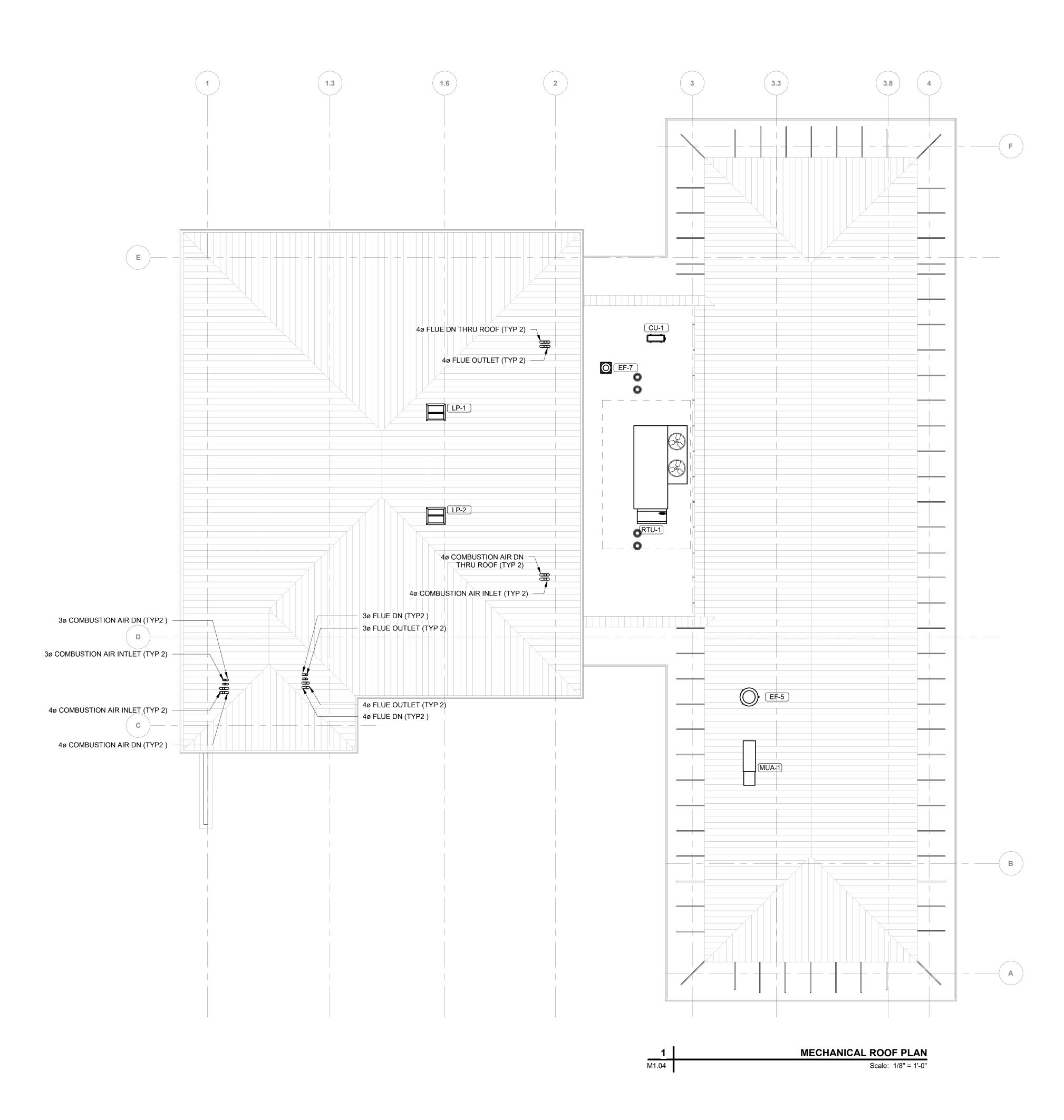






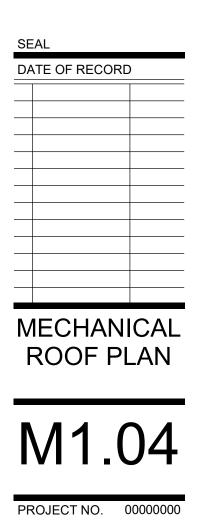
CONCORD FIRE STATION 2	TA	TION 2								
10154 PROUTY RD CONCORD, OH 44077										
LeMay Erickson Willcox Architects		11250 Roger Bacon Drive, Ste. 16	Ŀ	Reston, Virginia 20190	ŀ	Ph. (703) 956-5600	ŀ	Fax (703) 956-5601	www.lewarchitects.com	tects.com

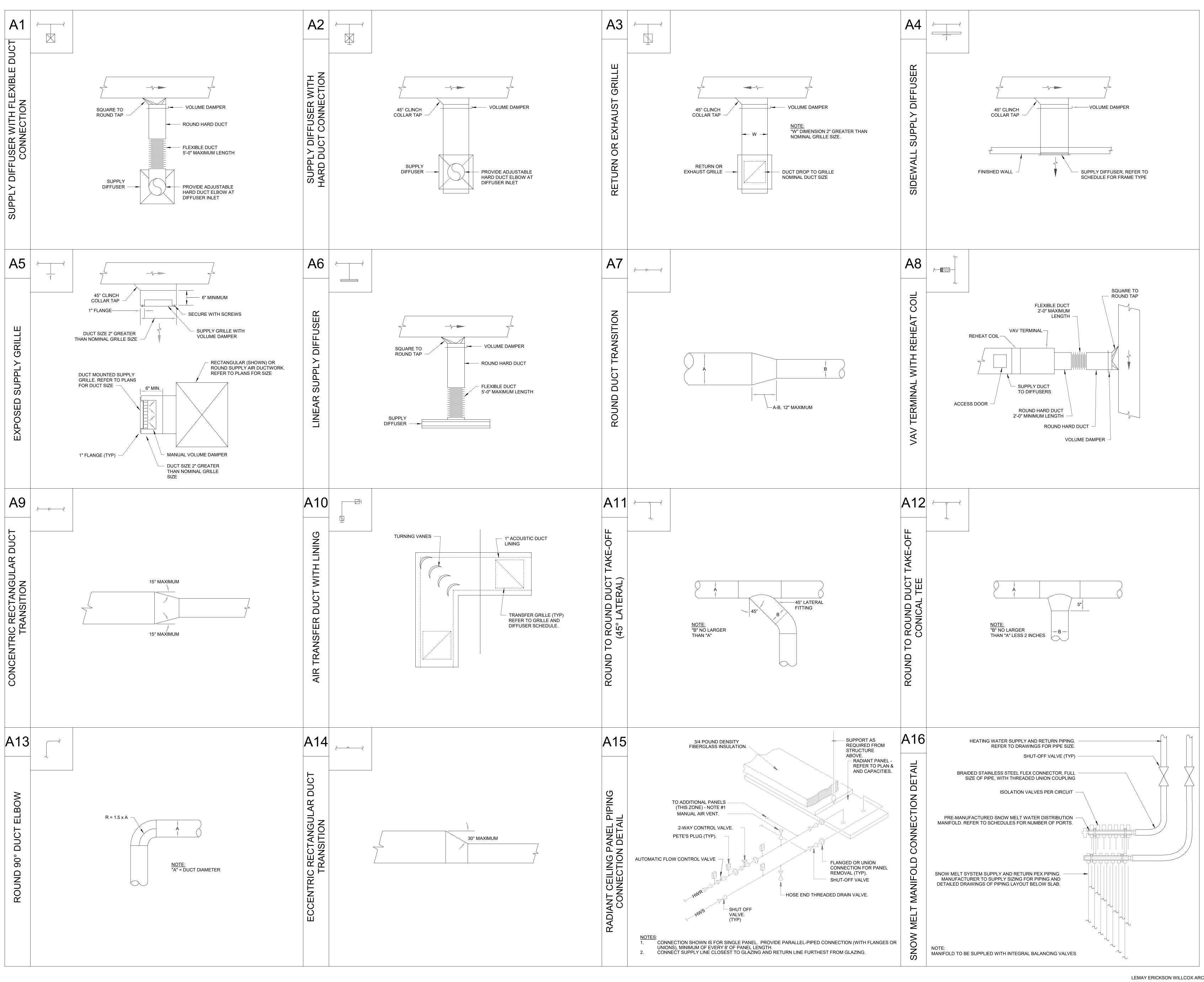






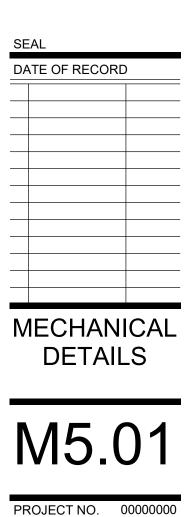
CONCORD FIRE STATION 2	Z N						
10154 PROUTY RD CONCORD, OH 44077							
LeMay Erickson Willcox Architects - 11250 Rog	11250 Roger Bacon Drive, Ste. 16	Reston, Virginia 20190	ŀ	Ph. (703) 956-5600	Fax (703) 956-5601	ŀ	www.lewarchitects.com

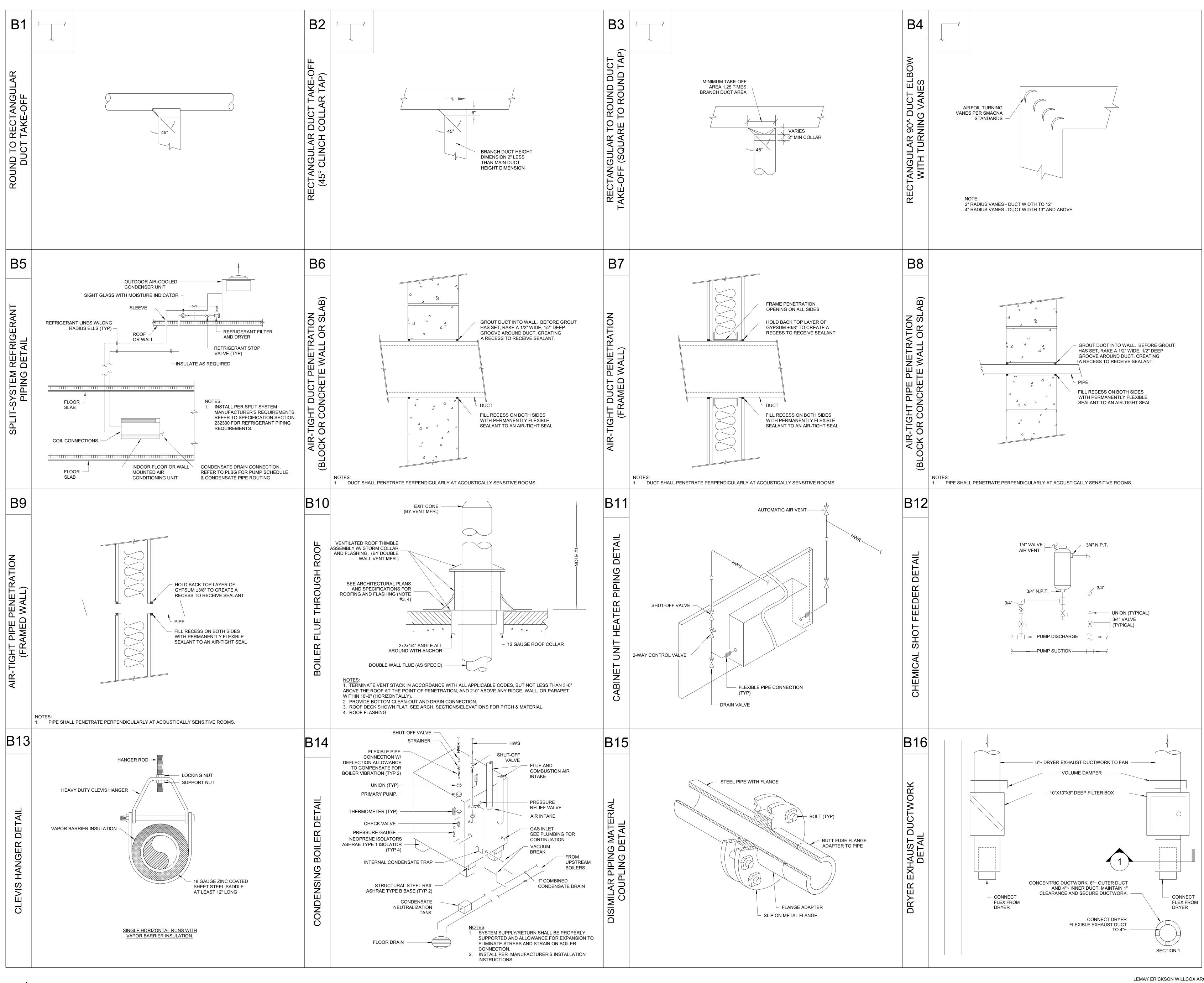






CONCORD FIRE STATION 2	ATION 2								
10154 PROUTY RD CONCORD, OH 44077									
LeMay Erickson Willcox Architects	11250 Roger Bacon Drive, Ste. 16	ŀ	Reston, Virginia 20190	ŀ	Ph. (703) 956-5600	ŀ	Fax (703) 956-5601	ŀ	www.lewarchitects.com



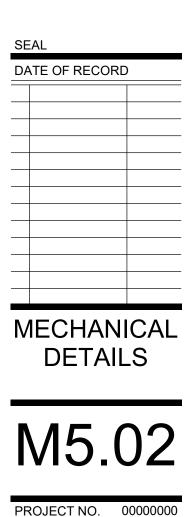


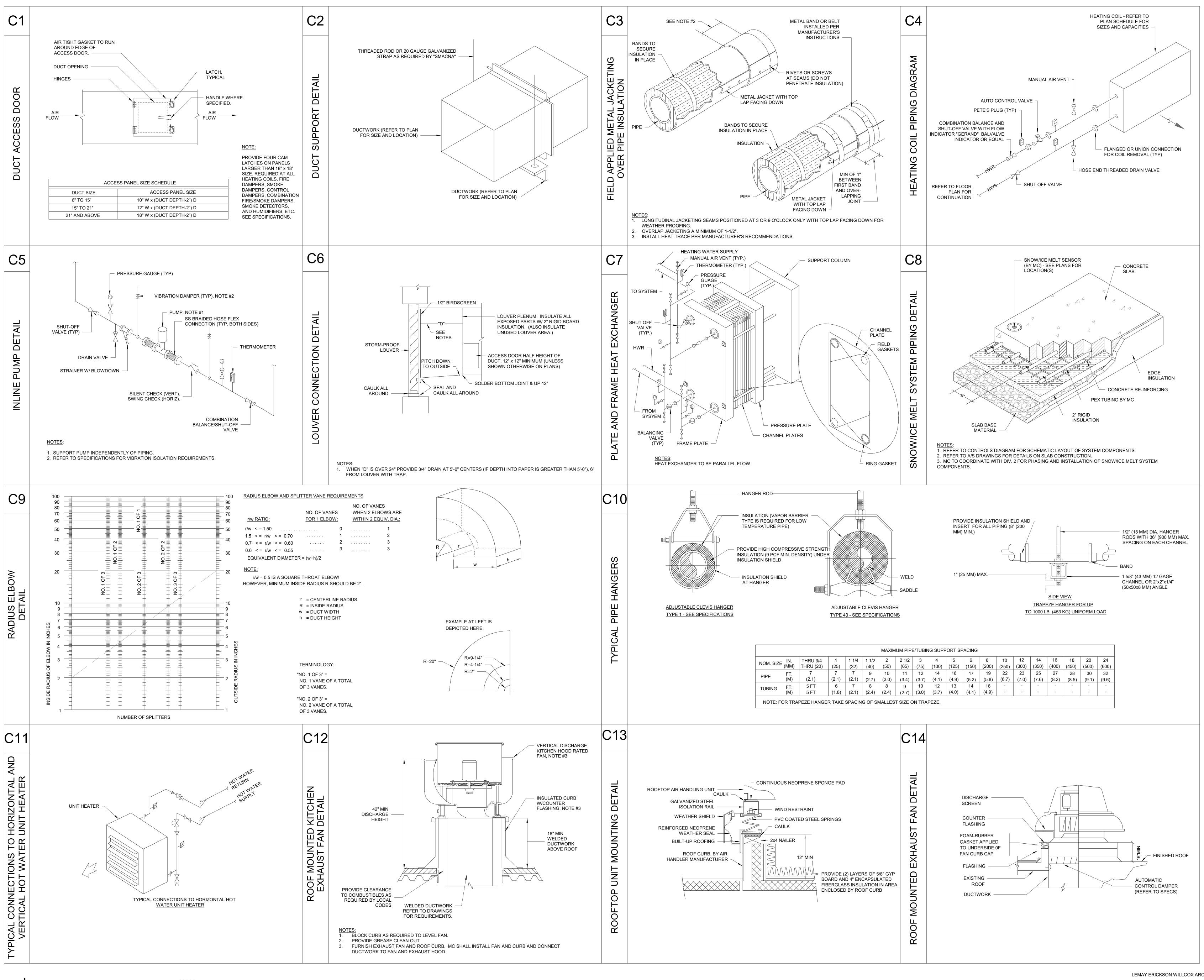
M5.02

M502 Scale: 1/8" = 1'-0"



CONCORD FIRE STATION 2	ATION 2								
10154 PROUTY RD CONCORD, OH 44077									
LeMay Erickson Willcox Architects	11250 Roger Bacon Drive, Ste. 16	ŀ	Reston, Virginia 20190	ŀ	Ph. (703) 956-5600	ŀ	Fax (703) 956-5601	ŀ	www.lewarchitects.com



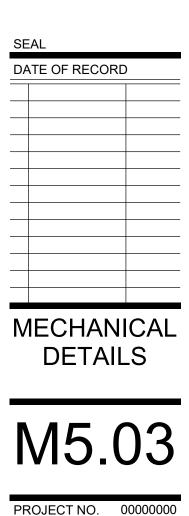


M5.03

M503 Scale: 1/8" = 1'-0"



CONCORD FIRE STATION 2	ATION 2								
10154 PROUTY RD CONCORD, OH 44077									
LeMay Erickson Willcox Architects	11250 Roger Bacon Drive, Ste. 16	ŀ	Reston, Virginia 20190	ŀ	Ph. (703) 956-5600	ŀ	Fax (703) 956-5601	ŀ	www.lewarchitects.com



								S	SINGLE	DUCT	TERMIN	AL UNI		DULE										
TAC	A 1 11 1	роом	SI	ZE	CF	М	STATIC P	RESSURE	NC	LEVEL					HOT W	ATER HEA	T COIL					BASIS OF DES	IGN	NOTES
TAG	AHU	ROOM	UNIT	INLET	MAX	MIN	INLET	DOWN	RAD.	DISCH.	CFM	MBH	EAT	LAT	APd	EWT	LWT	GPM	WPd	ROWS	WEIGHT	MANUFACTURER	MODEL	NOTES
VAV-01	AHU-1		12	12	1025	655	1	0.25	-	-	655	27.7	55	93.9	0.27	140	117.0	1.49	0.27	2	-	PRICE	SDV5	1,2,3
VAV-02	AHU-1		12	12	850	775	1	0.25	-	-	775	28.2	55	88.5	0.2	140	111.4	2.00	0.20	2	-	PRICE	SDV5	1,2,3
VAV-03	AHU-1		10	10	810	250	1	0.25	-	-	250	10.1	55	92.3	0.3	140	102.9	0.55	0.09	2	-	PRICE	SDV5	1,2,3
VAV-04	AHU-1		8	8	350	245	1	0.25	-	-	245	10.7	55	94.9	0.14	140	113.4	0.81	0.13	2	-	PRICE	SDV5	1,2,3
VAV-05	AHU-1		6	6	210	125	1	0.25	-	21	125	5.5	55	95.2	0.08	140	107.9	0.34	0.02	2	-	PRICE	SDV5	1,2,3
VAV-06	AHU-1		10	10	645	415	1	0.25	-	-	415	18.1	55	95	0.21	140	116.2	1.53	0.53	2	-	PRICE	SDV5	1,2,3
VAV-07	AHU-1		12	12	920	480	1	0.25	-	-	480	20.9	55	95	0.22	140	112.1	1.51	0.63	2	-	PRICE	SDV5	1,2,3
VAV-08	AHU-1		6	6	200	100	1	0.25	-	20	100	3.4	55	85.3	0.07	140	92.7	0.14	0.01	2	-	PRICE	SDV5	1,2,3
VAV-09	AHU-1		8	8	405	215	1	0.25	-	-	215	7.1	55	85	0.17	140	96.7	0.33	0.03	2	-	PRICE	SDV5	1,2,3
VAV-10	AHU-1		8	8	425	340	1	0.25	-	-	340	11.7	55	86.5	0.19	140	106.2	0.70	0.10	2	-	PRICE	SDV5	1,2,3
NOTES:																								
1.	ALL PERFOR	MANCE BASED ON TESTS CONDUC	CTED IN ACCOF	RDANCE W	ITH ASH	RAE 130	-2008 AND /	AHRI 880-20	11.															
2.	ALL NC LEVE	LS DETERMINED USING AHRI 885-2	2008 APPENDIX	Ε.																				

		DIFFUS	SER, GRILLE	E, AND REG		IEDULE		
TAG	TYPE	BOARDER TYPE	MODULE SIZE	NECK SIZE	FINISH	MANUFACTURER	MODEL	NOTES
А	SQ. PLAQUE	LAY IN	24x24	SEE PLANS	WHITE	TITUS	OMNI	-
В	SQ. PLAQUE	SURFACE	24x24	SEE PLANS	WHITE	TITUS	OMNI	-
С	SQ. PLAQUE	SURFACE	12x12	SEE PLANS	WHITE	TITUS	OMNI-AA	2
D	GRILLE	SURFACE	SEE PLANS	SEE PLANS	WHITE	TITUS	300RL	-
Е	GRILLE	LAY IN	24x12	SEE PLANS	WHITE	TITUS	350RL	-
F	GRILLE	LAY IN	24x24	SEE PLANS	WHITE	TITUS	350RL	-
G	GRILLE	SURFACE	SEE PLANS	SEE PLANS	WHITE	TITUS	350RL	-
Н	GRILLE	SURFACE	SEE PLANS	SEE PLANS	WHITE	TITUS	50F	2
I	GRILLE	LAY IN	24x12	SEE PLANS	WHITE	TITUS	50F	-
J	GRILLE	SURFACE	SEE PLANS	SEE PLANS	WHITE	TITUS	63FL	1

1. GRILLE TO BE HEAVY DUTY, ALUMINUM CONSTRUCTION. 2. DEVICE SHALL BE ALUMINUM CONSTRUCTION.

NOTES

3. PROVIDE WITH DISCONNECT.

				FAN SC	HEDULE				
	TAG		EF-1	EF-2	EF-3	EF-4	EF-5	EF-6	EF-7
	FAN TYPE		CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGAL	CENTRIFUGA
Α	RRANGEME	NT	INLINE	INLINE	INLINE	INLINE	UPBLAST	INLINE	DOWNBLAS
	DRIVE		EC	EC	EC	EC	DIRECT	EC	DIRECT
AIRFLO	W	CFM	250	240	650	270	1125	1940	875
ESP		INCH WG	0.25	0.3	0.25	0.3	1.0	0.5	0.3
		HP	1/6	1/6	1/2	1/6	1/2	1-1/2	1/6
	MOTOR	BHP	35W	37W	0.055	45W	0.377	0.453	0.143
FAN		SPEED CONTROL	EC	EC	EC	EC	VFD	EC	EC
FAN		RPM	1169	1233	906	1275	1639	631	1725
	OUTLET VELOCITY	FPM	-	-	-	-	-	-	-
	62.5 Hz	dB	57/75	58/76	57/68	58/76	71	72/72	71
	125 Hz	dB	61/68	62/69	59/63	62/70	76	73/72	72
	250 Hz	dB	64/65	66/66	57/55	67/67	79	73/75	76
SOUND POWER DATA	500 Hz	dB	56/58	57/59	51/53	58/60	74	67/67	72
(INLET/OUTLET)	1 KHz	dB	51/53	52/54	46/52	53/56	68	62/61	66
	2 KHz	dB	45/48	46/49	44/46	48/50	67	55/56	63
	4 KHz	dB	41/42	42/43	38/38	43/45	65	47/48	57
	8 KHz	dB	38/40	39/40	32/31	40/41	61	39/40	52
	VOLTAGE	V	120	120	208	120	120	208	120
ELECTRICAL		PHASE	1	1	1	1	1	3	1
	FLA	A	-	-	-	-	-	-	-
WEIGH	Т	LBS	54	54	77	54	92	526	28
BASIS OF		UFACTURER	LOREN COOK	LOREN COOK	LOREN COOK	LOREN COOK	LOREN COOK	LOREN COOK	LOREN COO
DESIGN	MOD	EL NUMBER	90SQN17DEC	90SQN17DEC	120SQN17DEC	90SQN17DEC	165VX17D	225QMXD08	101C17D
	NOTES		2	2	2	2	3	2	1
NOTES: 1.	PROVIDE \	WITH 14" CURB AND	INTEGRAL BAC	KDRAFT DAMPE	R.				

S	INGLE DUCT	TERMINAL	UNIT	SCHEDULE

RADI	ANT CEILING	PANEL SC	HEDULE
	TAG		RCP-1
	LOCATION		VARIOUS
	TYPE		RADIANT CEILING
CAPACITY/L	INEAL FOOT	BTU	154
LEN	IGTH	FEET	25
WI	DTH	INCH	18
	PASSES		6
	EWT	°F	140
HOT WATER	LWT	°F	110
	FLOW	GPM	0.25
BASIS OF	MANUFA	CTURER	PRICE
DESIGN	MODEL I	NUMBER	RPL
	NOTES		1

NOTES: 1. PROVIDE SMOOTH FINISH.

	CABINE	UNIT HEAT	ER SCHEDULE	
	TAG		CUH-1	
	LOCATION		101 VESTIBULE	
MOL	JNTING ARRANGEN	IENT	WALL RECESSED	C
AIR	FLOW	CFM	430	
	CAPACITY	MBH	46.3	
	COIL R	OWS	2	
HOT WATER	EWT	°F	140	
	LWT	°F	110	
	FLOW	GPM	3.25	
MC	DTOR	HP	1/15	
	VOLTAGE	V	120	
ELECTRICAL	PHA	SE	1	
	FLA	A	0.65	
WE	IGHT	LBS	135	
BASIS OF	MANUFAC	CTURER	STERLING	
DESIGN	MODEL N	UMBER	RWI-1200-04	
	NOTES		1	
NOTES:				

1. UNIT TO BE FURNISHED WITH UNIT MOUNTED THERMOSTAT AND ECM MOTOR.

	LOUVERED		USE SCHEDULE	
	TAG		LP-1	LP-2
	LOCATION		ROOF	ROOF
	SERVICE		APP. BAY	APP. BAY
AIR	RFLOW	CFM	1,940	1,940
	THROAT WIDTH	IN	24	24
DIMENSIONS	THROAT HEIGHT	IN	20	20
	THROAT VELOCITY	FPM	582	582
PRESS	URE DROP	IN WG	0.052	0.061
HOOE	D HEIGHT	IN	26.75	26.75
WEIGHT	LBS		35	35
BASIS OF	MANUFACTU	RER	GREENHECK	GREENHECK
DESIGN	MODEL NUM	BER	WRH-24x20	WIH-24x20
	NOTES		1,3,4	1,2,4

NOTES: 1. PROVIDE PREINSULATED ROOF CURB WITH DAMPER TRAY

- 2. FURNISH AND INSTALL HOOD WITH BIRDSCREEN AND MOTOR OPERATED DAMPER. 3. FURNISH AND INSTALL HOOD WITH BIRDSCREEN AND GRAVITY
- DAMPER.

4. COLOR AS SELECTED BY ARCHITECT.

AUTOMATIC GLYCOL SOLUTION MAKE UP SCHEDULE

TAG	GMU-1
LOCATION	MEZZANINE
TYPE	AUTOMATIC
% PROP. GLYCOL	40
FLOW (GPM)	10
FILL PRESSURE (PSI)	30
PUMP HP	1/2
PUMP RPM	3600
TANK VOLUME (GAL)	55
VOLTS / PH	120 / 1
MANUFACTURER	BELL & GOSSETT
MODEL	GMU-30
NOTES	1,2

NOTES: UNIT TO COME COMPLETE WITH ALL NECESSARY VALVES, STRAINERS, PRESSURE

GAUGES, EXPANSION TANK, ETC FOR A COMPLETE AND OPERABLE SYSTEM. 2. PROVIDE LOW WATER CUT OFF.

HVLS	FAN	SCHEDULE	Ξ

	I	HVLS FAN SC	HEDULE		
	TAG		CF-1	CF-2	
DIA	METER	FT	8	8	
	DRIVE		DIRECT	DIRECT	
	мотор	HP	1	1	
FAN	MOTOR	SPEED CONTROL	VFD	VFD	
	RF	M	191	191	
	VOLTAGE	V	208	208	
ECTRICAL	PHA	ASE	1	1	
	FLA	A	15	15	
W	EIGHT	LBS	124	124	
BASIS OF	MANUFA	CTURER	BIG ASS SOLUTIONS	BIG ASS SOLUTIONS	
DESIGN	MODEL	NUMBER	BASIC 6	BASIC 6	
	NOTES		1,2	1,2	
NOTES:					

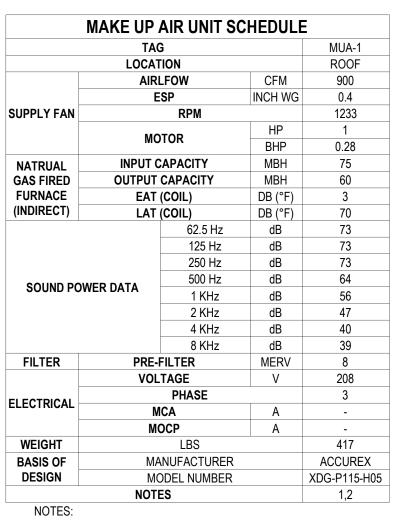
1. FAN TO BE INSTALLED 14'-0" AFF. 2. PROVIDE WITH WALL-MOUNTED KEYPAD

					HYDRONIC	SNOW MELT SCH	EDULE				
TAG	LOCATION	ZONE	SURFACE TEMP (°F)	TYPE	FLOW (GPM)	% PROP. GLYCOL	EWT (°F)	FLUID TEMP. DROP (°F)	PRESSURE DROP (FT)	MANUFACTURER	
SM-1	APP. BAY DRIVE	1	36	CONCRETE EMBEDDED	-	40	90	25	-	UPONOR	
SM-2	APP. BAY DRIVE	2	36	CONCRETE EMBEDDED	-	40	90	25	-	UPONOR	
NOTES:						· · ·					
1. N	MANIFOLD SHALL COME C	OMPLETE,	FULLY ASSEMBLED W	ITH ISOLATION AND BALA	NCING VALVES.						

			Р	UMP SCHEDULE			
	TAG		P-1	P-2	P-3	P-4	P-5
	LOCATION		MEZZANINE	MEZZANINE	MEZZANINE	MEZZANINE MEZZANINE	
	SERVICE		HEATING WATER	HEATING WATER	BOILER WATER	BOILER WATER	SNOW MELT
	PUMP TYPE		INLINE	INLINE	INLINE	INLINE	INLINE
	SIZE		1.5x1.5	1.5x1.5	1.5x1.5	1.5x1.5	1.5x1.5
САРА	CITY	GPM	35	35	35	35	20
TOTAL	HEAD	FT	40	40	15	15	35
NPSH RE	QUIRED	FT	6.2	6.2	4.1	4.1	5.87
IMPELLER	IMPELLER DIAMETER IN		6.25	6.25	6.25	6.25	6.0
FLUID TEM	FLUID TEMPERATURE °F		140	140	140	140	95
	HP		1.5	1.5	3/4 3/4		1
МОТ	OR	BHP	0.659	0.659	0.247	0.247	0.44
		RPM	1800	1800	1200	1200	1800
SPE	ED CONTROLL	ER	VARIABLE	VARIABLE	CONSTANT CONSTANT		VARIABLE
	VOLTAGE	V	208	208	208	208	208
ELECTRICAL	PH/	ASE	3	3	3	3	3
WEIG	GHT	LBS	200	200	200	200	200
BASIS OF	MANUFA	CTURER	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSETT	BELL AND GOSSE
DESIGN	MODEL N	NUMBER	e-80SC 1.5x1.5x7C	e-80SC 1.5x1.5x7C	e-80SC 1.5x1.5x7C	e-80SC 1.5x1.5x7C	e-80SC 1.5x1.5x7
1	NOTES		-	-	-	-	1
NOTES:							

1. PUMPED FLUID IS A SOLUTION OF WATER AND 30% PROPYLENE GLYCOL.

3. FAN TO BE HIGH TEMPERATURE RATED. PROVIDE FAN WITH ALUMINUM DRAIN TUBE.



	-	TAG		KH-1
	LOC	CATION		KITCHEN
DIMENU		WIDTH	INCH	60
DIMENS	SIONS	DEPTH	INCH	62
	A	IRLFOW	CFM	1,125
EVILATIOT		WIDTH	INCH	10
EXHAUST PLENUM	RISERS	HEIGHT	INCH	10
PLENUW	RIJERJ	QUANTITY	,	1
		PRESSURE DROP	INCH WG	0.448
	A	IRLFOW	CFM	900
		WIDTH	INCH	36
SUPPLY PLENUM	RISERS	HEIGHT	INCH	10
FLENOW		QUANTITY	,	1
		PRESSURE DROP	INCH WG	0.15
	CONST	RUCTION		STAINLESS
	FI	LTER		BAFFLE
	FIRE SYS	TEM PIPING		YES
		TYPE		CFL
LIGH	ING	WIRE GUAR	D	YES
	1	QUANTITY		3
ELECTRICAL	V	OLTAGE	V	120
LLEGINICAL		PHASE		1
WEIGHT		LBS		175
BASIS OF		MANUFACTURER		ACCUREX
DESIGN		MODEL NUMBER		XBEW
	N	OTES		-
NOTES:				

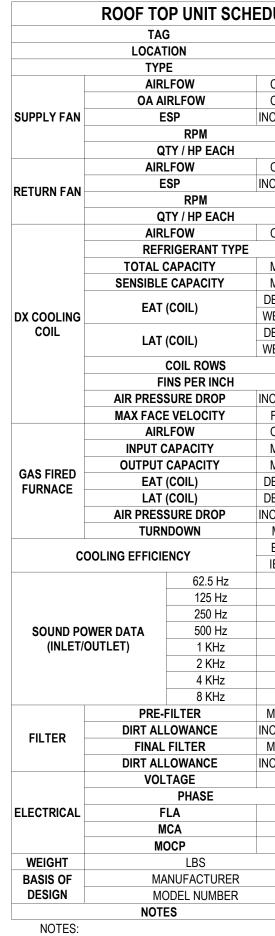
TYPE II KITCHEN HOOD SCHEDULE

1. PROVIDE FACTORY INSTALLED SPRING ISOLATORS. 2. PROVIDE SINGLE POINT POWER CONNECTION.

CUH-2 110 CORRIDOR CEILING RECESSED 430 46.3 140 110 3.25 1/15 120 0.65 135 STERLING RC-1200-04 1

		U	NIT HEATER SCH	IEDULE		
	TAG		UH-1	UH-2	UH-3	UH-4
	LOCATION		140 OUT. STORAGE	139 ELECTRICAL	141 ELECTRICAL	M01 MEZZANINE
	FLOW DIRECTION		HORIZONTAL	HORIZONTAL	HORIZONTAL	HORIZONTAL
AI	RFLOW	CFM	420	420	420	900
	CAPACITY	MBH	15.65	15.65	15.65	43.6
	EWT	°F	140	140	140	140
HOT WATER	LWT	°F	110	110	110	110
	FLOW	GPM	1.2	1.2	1.2	2.9
	PRESSURE DROP	FT HEAD	2.0	2.0	2.0	0.2
	INPUT CAPACITY	MBH	-	-	-	-
	OUTPUT CAPACITY	MBH	-	-	-	-
NATURAL GAS	EAT	°F	-	-	-	-
	LAT	°F	-	-	-	-
	GAS PRESSURE	IN WG	-	-	-	-
Ν	IOTOR	HP	16W	16W	16W	1/20
	VOLTAGE	V	120	120	120	120
	PHAS	E	1	1	1	1
ELECTRICAL	FLA	А	0.8	0.8	0.8	1.4
	MCA	А	-	-	-	-
	MOCP	А	-	-	-	-
W	EIGHT	LBS	24	24	24	41
BASIS OF	MANUFACT	URER	STERLING	STERLING	STERLING	STERLING
DESIGN	MODEL NU	MBER	HS-118A	HS-118A	HS-118A	HS-60
	NOTES		1	1	1	1

1.



^{1.} PROVIDE FACTORY INSTALLED SPRING ISOLATORS. 2. PROVIDE SINGLE POINT POWER CONNECTION.

NOTES: 1. UNIT TO BE FURNISHED WITH WALL-MOUNTED ANALOG THERMOSTAT AND VIBRATION ISOLATION HANGERS.

E	PLATE AN	PLATE AND FRAME HEAT EXCHANGER				
-		TAG		HX-1		
		LOCATION		MEZZANINE		
		SERVICE		SNOW MELT		
		FLOW	GPM	-		
		EWT	°F	-		
	HOT SIDE	LWT	°F	-		
		MAX PRESSURE DROP	FT	5		
		FLOW	GPM	-		
		EWT	°F	-		
	COLD SIDE	LWT	°F	-		
		MAX PRESSURE DROP	FT	5		
	CAPA	ACITY	MBH	-		
		NUMBER OF PLATES	-			
	SURFAC	E AREA	SQFT	-		
		MANUFA	CTURER	BELL AND GOSSETT		
E	BASIS OF DESIGN	MODEL	NUMBER	-		
-		NOTES		-		
	NOTES:					

NOTES: 1.

EXPANSION TANK SCHEDULE							
	TAG		ET-1	ET-2			
	SERVICE		HEATING WATER	SNOW MELT			
	TYPE		BLADDER	DIAPHRAGM			
TANK V	OLUME	GAL.					
ACCEPTAN	CE VOLUME	GAL.					
DIAM	DIAMETER						
HEIC	HEIGHT						
DESIGN TEN	IPERATURE	°F	140	95			
DESIGN P	RESSURE	PSI	150	150			
WEIGHT	L	BS					
BASIS OF	MANUF	ACTURER	BELL AND GOSSETT	BELL AND GOSSETT			
DESIGN	MODEL NUMBER		B-XXX				
NOTES							
NOTES:							
1.							

	TAC		011.1
	TAG		CU-1
	SYSTEM SERVE	D	ACU-1
CAPACITY	COOLING	MBH	36
CAPACITI	HEATING	MBH	40
	REFRIGERAN	Г	R410a
TOTAL A	AIRFLOW	CFM	3,040
		EER	9.3
EFFIC	IENCY	IEER	-
	VOLTAGE	V	208
	PH	1	
ELECTRICAL	FLA	A	17.8
	MCA	A	23.2
	MOCP	А	35.0
WEIGHT	LE	BS	194
BASIS OF	MANUFA	SAMSUNG	
DESIGN	MODEL	NUMBER	AC036JXADCH/AA
	NOTES		1

1. PROVIDE WITH FACTORY MOUNTED DISCONNECT.

	AIR S	EPARATO	OR SCHEDULE		
	TAG		AS-1	AS-2	
	SERVICE		HEATING WATER	SNOW MELT	
OPERATING TEMPERATURE		°F	140	95	
VORKING	ORKING PRESSURE		150	150	
SIZ	SIZE		2	-	
FLO	FLOW		35	-	
IAX PRESS	SURE DROP	FT	1	-	
WEI	GHT	LBS	107	-	
ASIS OF	MANUFA	CTURER	SPIROTHERM	SPIROTHERM	
DESIGN	MODEL I	NUMBER	VDN200	-	
NOTES			1	1	
NOTES:			· · · · ·		
1.	1. PROVIDE WITH REMOVABLE HEAD				

	EFFICIENCY	SEI	ER			
	EFFICIENCT	COP				
	FAN	WAT	ITS			
	FAN	CF	М			
ELECTRICAL						
MANUFACTURER						
	MODE	_ NUMBER	1			
		OTES				
	NOTES:					
	1	PROVIDE				
		WIRED T	HERMOS			
	BOILER	SCHED	ULE			
	TAG		B-1			
l	OCATION		-			
	TYPE		CONDEN			
Y	INPUT	MBH	500			
	OUTPUT	MBH	450			
EFFIC	ENCY	%	90			

BOILER SCHEDULE					
	TAG		B-1	B-2	
	LOCATION		-	-	
	TYPE		CONDENSING	CONDENSING	
CAPACITY	INPUT	MBH	500	500	
CAPACITY	OUTPUT	MBH	450	450	
EFFIC	IENCY	%	90	90	
ENTERING WATER TEMPERATURE		°F	110	110	
LEAVING WATER TEMPERATURE		°F	140	140	
FL(W	GPM	37	37	
PRESSU	RE DROP	FT	3.9	3.9	
F	UEL TYPE		NATURAL GAS	NATURAL GAS	
TUR	NDOWN RATIO		10:1	10:1	
PRV SE	TTING	PSI	50	50	
	VOLTS	V	120	120	
	PHASE		-	-	
ELECTRICAL	FLA	А	-	-	
	MCA	А	-	-	
	MOCP	А	-	-	
WEIGHT	LBS		560	560	
BASIS OF	MANUFACTU	RER	LOCHINVAR	LOCHINVAR	
DESIGN	MODEL NUM	BER	FTX500	FTX500	
	NOTES		1,2	1,2	
NOTES:					

1. PROVIDE CONDENSATE NEUTRALIZATION KIT. 2. PROVIDE BMS INTERFACE

	MO	DULATIN	IG GAS	FIRED RA	DIANT	HEATER S	SCHEDULE
TAG	SERVICE	VOLTS/PH	AMPS	NAT.GAS PRESSURE IN. W.C.	INPUT MBH	DIMENSION (LxWxH)	MANUFACTURER
RH-1	151 APPARATUS BAY	120/1	1.2	5.3" - 14"	80	360"x16"x6"	ADVANCED RADIANT SYSTEMS
RH-2	151 APPARATUS BAY	120/1	1.2	5.3" - 14"	80	360"x16"x6"	ADVANCED RADIANT SYSTEMS

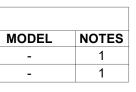
1. UNIT TO BE FURNISHED WITH WALL-MOUNTED ANALOG THERMOSTAT. 2. FURNISH WITH MANUFACTURERS VERTICAL THROUGH THE ROOF END CAP.

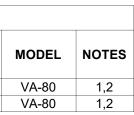
LEMAY ERICKSON WILLCOX ARCHITECTS, COPYRIGHT 2014

DULE	
	RTU-1
	ROOF
	VAV
CFM	6,000
CFM	1500
ICH WG	2.5
	1433
	1 / 7.5
CFM	6,000
ICH WG	1.5
	1664
	2/2
CFM	6,000
	R410a
MBH	210.6
MBH	141.4
DB (°F)	80.8
VB (°F)	66.5
DB (°F)	53.4
VB (°F)	51.2
	6
	12
ICH WG	0.31
FPM	500
CFM	3,000
MBH	270
MBH	219
DB (°F)	0
DB (°F)	65
ICH WG	0.19
MIN	9:1
EER	12.2
IEER	14.8
dB	91/93
dB	92/92
dB	84/93
dB	82/92
dB	85/89
dB	84/88
dB	80/88
dB	77/84
MERV	6
ICH WG	0.5
MERV	13
ICH WG	0.5
V	208
	3
Α	113
Α	121
Α	150
	3373
	AAON
	RN-020
	1,2

AIR CONDITIONING UNIT SCHEDULE						
-	TAG	ACU-1				
LOC	CATION	111 TELECOM.				
COOLING CAPACITY	TOTAL (BTU)	36,000				
HEATING CAPACITY	TOTAL (BTU)	40,000				
EFFICIENCY	SEER	18.3				
EFFICIENCE	COP	2.84				
FAN	WATTS	58				
FAN	CFM	830				
REFR	IGERANT	R410a				
ELEC	CTRICAL	POWERED FROM OUTDOOR UNIT				
MANUF	ACTURER	SAMSUNG				
MODEL	NUMBER	AC036MNTDCH/AA				
N	OTES	1				

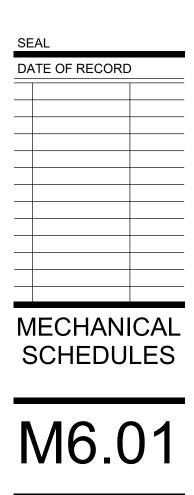
MOUNTED AND OSTAT







CONCORD FIRE STATION 2	TAT	TION 2								
10154 PROUTY RD CONCORD, OH 44077										
LeMay Erickson Willcox Architects	~	11250 Roger Bacon Drive, Ste. 16	ŀ	Reston, Virginia 20190	ŀ	Ph. (703) 956-5600	ŀ	Fax (703) 956-5601	ŀ	www.lewarchitects.com



N	OTE: NOT ALL ABBREVIATIONS MAY BE USED.
REVIATIO	ON DESCRIPTION
AAV	AUTOMATIC AIR VENT
AC	AIR COMPRESSOR
AD	AREA DRAIN
AST	ABOVE GROUND STORAGE TANK
BAC	BREATHING AIR COMPRESSOR
BT	BATHTUB
CO	CLEANOUT
CS	CLINICAL SINK
DAC	DENTAL AIR COMPRESSOR
DF	
DVP	
DW	
EEW	
ESH	
ESP	ELEVATOR SUMP PUMP
ET	EXPANSION TANK ELECTRIC WATER COOLER
-	ELECTRIC WATER COOLER
EWH FCO	FLOOR CLEANOUT
FCO FD	FLOOR DRAIN
FOP	FUEL OIL PUMP
FPHB	FREEZE PROOF HOSE BIBB
FS	FLOOR SINK
GCO	GRADE CLEANOUT
GI	GREASE INTERCEPTOR
GWH	GAS WATER HEATER
HB	HOSE BIBB
HD	HUB DRAIN
HS	HAND SINK
L	LAVATORY
LAC	LABORATORY AIR COMPRESSOR
LVP	LABORATORY VACUUM PUMP
MAC	MEDICAL AIR COMPRESSOR
MB	MOP BASIN
MVP	MEDICAL VACUUM PUMP
NT	NEUTRALIZATION TANK
OFD	OVERFLOW DRAIN
OI	OIL INTERCEPTOR
Р	PUMP
RCP	RECIRCULATING PUMP
RD	ROOF DRAIN
RH	ROOF HYDRANT
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
S	SINK
SE	SEWAGE EJECTOR
SH	SHOWER
SP	SUMP PUMP
SS	SERVICE SINK
SWH	STEAM WATER HEATER
TD	
	THERMOSTATIC MIXING VALVE
TP	TRAP PRIMER
UST	
VB	
WC	WATER CLOSET
WCO WHA	WALL CLEANOUT
	WATER HAMMER ARRESTOR

	PL
NOT	E:
ABBREVIATION	
A/E	AR
AD	AC
AFF	ABC
AFG AMB	ABC AM
APPROX	APF
ARCH	AR
ASHRAE	AM
ASME	EN0
ASPE	AM
AVTR	ACI
BFP	BLA
BHP BLDG	BR/ BUI
BTUH	BRI
BV	BAL
CFH	CUI
Cl	CAS
CL DN	DO
DSN	DO
DWG	DR/
DWV	DR/
EFF EL	EFF
FFE	FIN
FLA	FUL
FT	FEE
FU	FIX
GAL GPD	GAI GAI
GPH	GAI
GPM	GAI
HP	HO INV
IE KW	KIL
LF	LIN
MAV	MA
MBH MCA	
MCA	TH
MECH	ME
MFR	MA
MH MOCP	MA MA
MOU	ME
N/A	NO
NC	NO
NIC NO	NO NO
NPSH	NE
NTS	NO
OD	OU.
PD	PRE
PDI PPM	PAF
PRV	PR
PSI	PO
RPM	RE
SCFM SF	ST/
SS	STA
TEMP	TEN
TYP	
UNO VTR	UNI VEN
W	WA
WG	WA
WM	WA
WPD °C	WA DE(
°F	DE

	Domestic
QUANTITY	
2 TO 3	FLUS
4 TO 6	FLUS
OVER 6	FLUS
2 TO 3	
4 TO 8	
OVER 8	

FIXTURE	WASTE	VENT	CW	HW	REMARKS
W	3"	1-1/2"	1-1/4"	-	FLUSH VALVE
W	3"	1-1/2"	1/2"	-	TANK
U	2"	1-1/2"	1"	-	BLOWOUT
U	2"	1-1/2"	1/2"	-	WASHOUT
L	1-1/2"	1-1/2"	1/2"	1/2"	-
SS	3"	1-1/2"	3/4"	3/4"	-
S	1-1/2"	1-1/2"	1/2"	1/2"	-
EWC	1-1/2"	1-1/2"	1/2"	-	-
DF	1-1/2"	1-1/2"	1/2"	-	-
FD	4"	1-1/2"	-	-	-
FD	3"	1-1/2"	-	-	-
FPHB	-	-	3/4"	-	-
HB	-	-	3/4"	-	-
CS	4"	2"	1-1/4"	1/2"	-
BT	1-1/2"	1-1/2"	1/2"	1/2"	-
SH	3"	1-1/2"	1/2"	1/2"	-

BING ABBREVIATIONS		NG STANDARD SYSTEM ABBREVIATIONS	PL	UMBING SYMBOLS LIST
LL ABBREVIATIONS MAY BE USED. DESCRIPTION	ABBREVIATI	OTE: NOT ALL ABBREVIATIONS MAY BE USED.	NOTI SYMBOL	E: NOT ALL SYMBOLS MAY BE USED. DESCRIPTION
/ ENGINEER	A	COMPRESSED AIR (SHOP AIR)		KEYNOTE (SEE LEGEND ON SHEET)
	Al	AIR INTAKE		FLOW ARROW
SED FLOOR SHED GRADE	CD	CONDENSATE DRAIN DRAIN		CONNECT TO EXISTING
	DCW	DOMESTIC COLD WATER		
TE	DCWR	DOMESTIC COLD WATER RETURN		
JRE OCIETY OF HEATING, REFRIGERATION, AIR CONDITIONING	DHW DHWR	DOMESTIC HOT WATER DOMESTIC HOT WATER RETURN		PIPE CAPPED
OCIETT OF HEATING, REFRIGERATION, AIR CONDITIONING	DRWK	DOWN SPOUT		PIPE UNION
OCIETY OF MECHANICAL ENGINEERS	FOO	FUEL OIL OVERFLOW		PIPE GUIDES OR SLEEVES
CIETY OF PLUMBING ENGINEERS	FOR		<u> </u>	PIPE ANCHOR
PREVENTER	FOS FOV	FUEL OIL SUPPLY FUEL OIL VENT		FLEXIBLE PIPE CONNECTION
EPOWER	G	NATURAL GAS	\bowtie	GENERAL SERVICE VALVE (SEE SPECIFICATIONS FOR VALVE TYPE PER APPLICATION)
	ID	INDIRECT DRAIN		CHECK VALVE (ARROW INDICATES
MAL UNITS PER HOUR /E				DIRECTION OF FLOW)
ER HOUR	NPWPD	NON POTABLE WATER PUMP DISCHARGE		MANUAL BALANCING VALVE
	PW	POTABLE WATER		AUTOMATIC BALANCING VALVE
	RO	REVERSE OSMOSIS		SOLENOID VALVE
NOZZLE	ROR ROS	REVERSE OSMOSIS RETURN REVERSE OSMOSIS SUPPLY	·····································	TWO-WAY CONTROL VALVE
	ROS SAN	SANITARY SEWER		THREE-WAY CONTROL VALVE
/ENT	SCW	SOFTENED COLD WATER		TWO-WAY PRESSURE INDEPENDENT
	SCWR	SOFTENED COLD WATER RETURN		CONTROL AND BALANCE VALVE
PR ELEVATION	SST	SECONDARY STORM STORM	×	THERMOSTATIC MIXING VALVE
PS	ST TW	TEPID WATER	X	PRESSURE REDUCING VALVE
	TWR	TEPID WATER RETURN		VACUUM BREAKER
	TWS	TEPID WATER SUPPLY		PLUG VALVE
DAY	V VAC	VENT VACUUM	\$⊲	TEMPERATURE AND PRESSURE RELIEF VALVE
IOUR		WATER		
INUTE			Ц <u>Х</u>	DRAIN VALVE WITH THREADED HOSE CONNECTION
				REDUCED PRESSURE BACKFLOW PREVENTER
ON		IG SPECIALITY SYSTEM ABBREVIATIONS	0	
	N	OTE: NOT ALL ABBREVIATIONS MAY BE USED.	Į Ž	PRESSURE GAUGE WITH STOPCOCK
T I	ABBREVIATI	ON DESCRIPTION		STRAINER WITH BLOW DOWN VALVE
AMPACITY	AR	ARGON	P AV	AUTOMATIC AIR VENT
CFEET	AV	ACID VENT	 Д	
	AW		Д МАV	MANUAL AIR VENT
	BA C02	BREATHING AIR CARBON DIOXIDE	∇	TEMPERATURE/PRESSURE TEST PLUG
CURRENT PROTECTION	CV	CENTRAL VACUUM		(PETE'S PLUG)
DF UNDERSTANDING	CVE	CENTRAL VACUUM EXHAUST	FS	WATER FLOW SWITCH
E	DA		PS	PRESSURE SWITCH
OSED	DAI DI	DENTAL AIR INTAKE DEIONIZED WATER	CO	CLEAN OUT
ACT EN	DV	DENTAL VACUUM	WCO	WALL CLEAN OUT
SUCTION HEAD	DVE	DENTAL VACUUM EXHAUST		FLOOR CLEAN OUT
	DW GV	DISTILLED WATER GREASE VENT	O GCO	GRADE CLEAN OUT
ETER	GW GW	GREASE VENT		
ROP D DRAINAGE INSTITUTE	H2	HYDROGEN		AREA DRAIN
LION	HE	HELIUM	FD	FLOOR DRAIN
	IR LA	IRRIGATION LABORATORY AIR		
IQUARE INCH		LABORATORY AIR LABORATORY AIR INTAKE	OFD OFD	OVERFLOW ROOF DRAIN
PER MINUTE BIC FEET PER MINUTE	LCW	LABORATORY COLD WATER		
- 	LHW	LABORATORY HOT WATER		ROOF DRAIN
EL		LABORATORY VACUUM LABORATORY VACUUM EXHAUST	нв	HOSE BIBB
		MEDICAL AIR		
OTHERWISE	MAI	MEDICAL AIR INTAKE	-+WH	WALL HYDRANT
ROOF			—⊗ ҮН	YARD HYDRANT
	MVE N2	MEDICAL VACUUM EXHAUST NITROGEN		FLOW METER
	N20	NITROUS OXIDE	Π	
E DROP	02	OXYGEN	ĻΨ	THERMOMETER
RADE (CELCIUS)	OW	OIL WASTE		PITCH DOWN IN DIRECTION OF ARROW
NHEIT	WAG WAGE	WASTE ANESTHESIA GAS WASTE ANESTHESIA GAS EXHAUST	M	METER
	ZA	ZERO AIR		
	L		(W)	
			#	RISER OR STACK DESIGNATION & NUMBER
			A	HOT WATER MAINTENANCE CABLE START POINT
			A	HOT WATER MAINTENANCE CABLE TEE POINT
			(A)	HOT WATER MAINTENANCE CABLE END POINT

water Branch Pipe Size Schedule					
SIZE					
3/4" CW, HW					
1" CW, HW					
REFER TO PLAN					
1-1/2" CW					
2" CW					
REFER TO PLAN					

١g	Fixture	Connection	Schedule
ıg	rixture	Connection	Schedule

	BOOSTER	PUMP SCH	IEDULE
	TAG		DWBP-1
	LOCATION		MEZZANINE
	SERVICE		DOMESTIC WATER
	PUMP TYPE		DUPLEX BOOSTER
HEADE	R SIZE	INCH	-
CAPA	CITY	GPM	140
BOOSTED	PRESSURE	PSI	15
FLUID TEM	PERATURE	°F	40
MOTOR HP/PUMP			5 /2
WO	IUR	RPM	-
SPI	EED CONTROLL	ER	VFD
ELECTRICAL	VOLTAGE	V	208
ELECTRICAL	PH	ASE	3
WEI	GHT	LBS	756
BASIS OF	MANUFA	CTURER	GRUNDFOS
DESIGN	MODEL I	NUMBER	HYDRO MPC E 2CRE32-1
	NOTES		1
NOTES:			
1			

1. PROVIDE LEAD FREE CONSTRUCTION

	EXPANSI	ON TANK S	CHEDULE
	TAG		ET-1
	SERVICE		DOMESTIC HOT WATER
	TYPE		BLADDER
TANK V	OLUME	GAL.	4.4
ACCEPTAN	CE VOLUME	GAL.	3.2
DIAM	ETER	IN	11
HEIC	GHT	IN	15
DESIGN TEN	IPERATURE	°F	140
WEIGHT	L	9	
BASIS OF	MANUF	ACTURER	BELL AND GOSSETT
DESIGN	MODEL	NUMBER	PT-12
	NOTES		-
NOTES:			
1.			

THERMOSTATIC	C MIXING VA	۱L
TAG		
LOCATION		ſ
SERVICE		F
RATED FLOW	GPM	

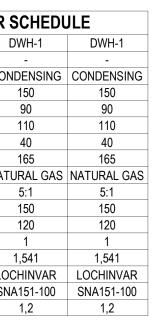
	TAG		TMV-1	TMV-2
	LOCATION		MEZZANINE	DECON.
	SERVICE		RECRIC. HW	EYE WASH
RATED	FLOW	GPM	35	20
MINIMUI	MFLOW	GPM	3	1
PRESSU	RE DROP	PSI	3	15
INLET TEM	PERATURE	°F	140	140
OUTLET TEM	MPERATURE	°F	110	80
	MANUFA	CTURER	LAWLER	LAWLER
BASIS OF DESIGN	MODEL	NUMBER	86603	9201E
DESIGN	VALVE N	NUMBER	803	-
	NOTES		1	2
NOTES:				

1. VALVE SHALL BE INSTALLED IN PRE-PIPED MANIFOLD SYSTEM WITH PUMP (RP-1) 2. PROVIDE WITH SURFACE MOUNTED STAINLESS STEEL CABINET.

DOM	ESTIC WATE	R HEAT	FER S
	TAG		E
	LOCATION		
	TYPE		CON
CAPA	ACITY	MBH	
STORAGE	VOLUME	GAL	
STORAGE TE	MPERATURE	°F	
EV	NT	°F	
RECO	VERY	GPH	
FUEL TYPE			NATU
TURNDOWN RATIO			
OPERATING	PRESSURE	PSI	
	VOLTS	V	
ELECTRICAL	PHASE		
WEIGHT	LBS		
BASIS OF	MANUFACTU	IRER	LOC
DESIGN	MODEL NUM	BER	SNA
	NOTES		
NOTES:			

1. PROVIDE CONDENSATE NEUTRALIZATION KIT. 2. PROVIDE BMS INTERFACE

VE SCHEDULE



AIR COMPRESSOR SCHEDULE

	TAG		AC-1
	LOCATION		149 MAINTENANCE
	SERVICE		-
	TYPE		2-STAGE RECIP.
TANK CA	PACITY	GALLON	120
MAX PR	ESSURE	PSI	175
WORKING F	PRESSURE	PSI	125
	SCFM @ 90 PS		35.6
МОТ	OR	HP	10
ELECTRICAL	VOLTAGE	V	208
ELECTRICAL	PH	ASE	3
WEIG	GHT	LBS	800
BASIS OF	MANUFA	ACTURER	INGERSOLL-RAND
DESIGN	MODEL	NUMBER	32545K10
	NOTES		1

OIL SEPARATOR SCHEDULE OWS-1 TAG

	SERVICE		APPARATUS BAY
FLO	WRATE	GPM	30
	TOTAL	US GAL	300
CAPACITY	OIL US GAL 156	156	
APACITY	SEDIMENT	US GAL	103
BASIS OF	MANUFACT	URER	ZURN
DESIGN	MODEL NU	MBER	OMC 300
	NOTES		1,2,3

- NOTES: 1. FURNISH AND INSTALL WITH TRAFFIC RATED COVER AND EXTENSION COLLAR. 2. PROVIDE HIGH LEVEL SENSOR AND
 - CONTROL PANEL. 3. PROVIDE WITH INTEGRAL OIL COALESCING
 - FILTER.

	PUMP	SCHEDU	LE
	TAG		RP-1
	LOCATION		MEZZANINE
	SERVICE		DOMESTIC HOT WATER RECIRCULATION
	PUMP TYPE		INLINE
CAPA	CITY	GPM	6
TOTAL	HEAD	FT	21
FLUID TEMPERATURE °F		110	
		HP	1/4
MOTOR		RPM	1750
SPI	EED CONTROLL	ER	CONSTANT
	VOLTAGE	V	120
ELECTRICAL	PHA	ASE	1
WEI	GHT	LBS	33
BASIS OF	MANUFA	CTURER	THRUSH CO.
DESIGN	MODEL	NUMBER	TCB 1413-1030
	NOTES		1
NOTES:			

NUTES: 1. PROVIDE LEAD FREE ALL BRONZE CONSTRUCTION

	PLUMBING GENERAL NOTES
1.	COORDINATE PHASING OF ALL DEMOLITION AND RENOVATION WORK WITH OWNER AND OTHER TRADES. REVIEW RENOVATION DRAWINGS TO VERIFY AND/OR DETERMINE EXTENT OF, AND SCHEDULING FOR, ALL DEMOLITION PRIOR TO PERFORMING DEMOLITION WORK.
2.	FIELD VERIFY ALL SIZES AND LOCATION OF EXISTING PIPING AND EQUIPMENT TO REMAIN. NOTIFY ARCHITECT/ENGINEER OF DEVIATIONS WHICH AFFECT RENOVATION WORK PRIOR TO PROCEEDING WITH THE WORK.
3.	SAWCUT OR CORE DRILL EXISTING FLOOR SLAB AS REQUIRED FOR INSTALLATION OF NEW PIPING. DO NOT USE JACK HAMMER AS A MEANS OF CUTTING.
4.	ALL PLUMBING FIXTURES AND EQUIPMENT TO BE REMOVED SHALL BE STORED OR DISCARDED AS DIRECTED BY OWNER.
5.	ALL WORK IS TO BE PHASED AS INDICATED ON THE ARCHITECTURAL DRAWINGS. COORDINATE PHASING OF ALL DEMOLITION, RENOVATION AND NEW WORK WITH OTHER TRADES. CLOSELY COORDINATE PHASING OF WORK WITHIN CORRIDORS WITH THE OWNER. CORRIDORS CANNOT BE COMPLETELY CLOSED OFF TO PEDESTRIAN

TRAFFIC. TO ACCOMMODATE PHASING, CORRIDOR ACCESS WORK MAY NEED TO BE PERFORMED DURING OFF PEAK PERIODS. PRIOR TO MOVING ON TO A NEXT PHASE. ALL WORK IN PREVIOUSLY PHASED AREAS MUST BE COMPLETE AND OPERATIONAL. 6. BEFORE STARTING WORK, ARRANGE TO SHUT DOWN UTILITIES AND SERVICE LINES IN AREA OF DEMOLITION WORK. BE SURE THAT LOCATIONS OF UTILITIES IN VICINITY ARE KNOWN AND IDENTIFIED AS "IN SERVICE" OR "SHUT DOWN". COORDINATE DEMOLITION AND UTILITY SHUT DOWN OF PLUMBING SYSTEMS WITH OTHER TRADES ON SITE. 7. PROMPTLY REMOVE MATERIALS FROM THE PROPERTY, OTHER THAN THOSE SPECIFIED HEREIN OR NOTED ON THE DRAWINGS AS BEING REUSED OR SALVAGED.

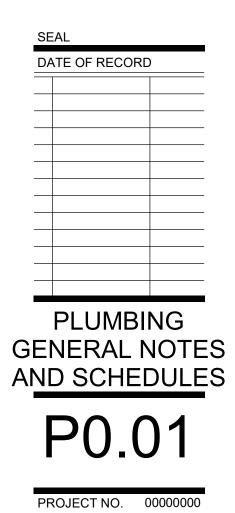
- REMOVE DEMOLISHED PIPING AND VALVES, DEBRIS AND RUBBISH FROM THE PROPERTY. 8. PROMPTLY REPAIR ANY ITEMS DAMAGED DURING PROCESS OF THIS WORK, INCLUDING ANY DAMAGE TO STRUCTURE, PAVEMENT, SIDEWALKS OR ADJACENT GROUND CAUSED BY TRANSPORTING MATERIALS OR EQUIPMENT.
- 9. INFORMATION CONTAINED IN THESE DRAWINGS WAS OBTAINED FROM ARCHIVED DRAWINGS AND SITE VISITS. NOT ALL EXISITING PLUMBING (FIRE PROTECTION) PIPING AND EQUIPMENT MAY BE SHOWN.
- 10. ABANDONED PIPING IS TO BE CAPPED. DEMOLITION OF PIPING SHALL BE DONE IN A MANNER SO AS NOT TO CREATE DEAD-LEGS OFF ANY MAINS. 11. THE CONTRACTOR SHALL INSTALL A TEST TEE IN THE NEW SANITARY WASTE AND
- VENT PIPING IN ORDER TO TEST THE SYSTEM. 12. COORDINATE EXACT REQUIREMENTS AND LOCATION OF WORK WITH THE WORK OF OTHER TRADES PRIOR TO FABRICATION. PROVIDE ADDITIONAL OFF SETS AND SECTIONS OF PIPING AS MAY BE REQUIRED TO MEET THE APPLICABLE JOB CONDITION REQUIREMENTS. VERIFY JOB-SITE ELEVATIONS, DIMENSIONS, AND CONDITIONS, PRIOR TO FABRICATION OR INSTALLATION OF THE WORK. COORDINATE EXACT ROUTING OF PIPING WITH OTHER TRADES SO THAT NO CONFLICTS OCCUR WITH DUCTWORK, PIPING, LIGHTS, STRUCTURE, ETC.
- 13. VISIT THE SITE OF THE WORK TO GAIN AN ACCEPTABLE KNOWLEDGE OF CONDITIONS AFFECTING THE EXECUTION OF THE WORK. AFTER VISITING THE SITE, REQUEST SUCH INFORMATION AND/OR CLARIFICATIONS AS NECESSARY TO FULLY UNDERSTAND THE WORK REQUIRED AND TO PROPERLY ESTIMATE COSTS.
- 14. VISIT THE SITE OF THE WORK TO GAIN AN ACCEPTABLE KNOWLEDGE OF CONDITIONS AFFECTING THE EXECUTION OF THE WORK. AFTER VISITING THE SITE, REQUEST SUCH INFORMATION AND/OR CLARIFICATIONS AS NECESSARY TO FULLY UNDERSTAND THE WORK REQUIRED AND TO PROPERLY ESTIMATE COSTS.
- 15. ENSURE THAT WORK WILL NOT INTERFERE OR INTERRUPT SERVICES TO AREAS OUTSIDE OF THE DESIGNATED CONTRACT AREAS. AS ANY INTERRUPTIONS OF EXISTING SERVICES BECOMES NECESSARY, SCHEDULE SUCH INTERRUPTIONS WITH THE OWNER PRIOR TO THEIR COMMENCEMENT. THE GIVE THE OWNER NO LESS THAN TWO WEEKS NOTICE AS TO WHEN HE EXPECTS SUCH INTERRUPTIONS. WORK SHALL BE PERFORMED AT SUCH TIMES AS DIRECTED BY THE OWNER.
- 16. HIRE A TEST LABORATORY OR AGENCY TO LOCATE FLOOR SLAB PRE STRESSED CABLES AND STRUCTURAL RIBS BY MEANS OF X-RAY OR OTHER RELIABLE METHOD PRIOR TO CUTTING OR CORE DRILLING. ADJUST FLOOR PENETRATIONS, WITH ARCHITECT'S APPROVAL; TO AVOID DAMAGING THE PRE STRESSED CABLES OR CUTTING THE STRUCTURAL RIBS. ALL PIPING PENETRATIONS MUST OCCUR WITHIN THE SLAB VOID AREAS.
- 17. ALL FLOOR PENETRATIONS TO BE SEALED WATER TIGHT AND COMPLETELY PACKED WITH SEALANT OR FIRE STOP MATERIAL WHERE APPLICABLE BY TRADE CONTRACTORS.
- 18. EACH TRADE SHALL PAY THE GENERAL CONTRACTOR TO PATCH FLOOR SLAB AND WALL PENETRATIONS TO MATCH EXISTING WHERE PIPING IS BEING REMOVED OR INSTALLED
- 19. PROVIDE ALL MATERIALS AND EQUIPMENT AND PERFORM ALL LABOR REQUIRED TO INSTALL COMPLETE AND OPERABLE SYSTEMS AS INDICATED ON THE DRAWINGS AND SPECIFICATIONS. INCLUDE ALL NECESSARY AND APPLICABLE APPURTENANCES, WHETHER INDICATED OR NOT. 20. INSTALL ALL WORK TO COMPLY WITH ALL LAWS, REGULATIONS, CODES AND
- STANDARDS (FEDERAL, STATE, AND LOCAL), AS ADOPTED BY THE AGENCIES HAVING JURISDICTION, INCLUDING REASONABLY ANTICIPATED REVISIONS BASED ON EMERGING TRENDS IN BUILDING REGULATIONS. WHERE ANY OF THESE DIFFER, THE MOST STRINGENT SHALL APPLY.
- 21. COORDINATE THE LOCATION OF ALL UTILITY CONNECTION POINTS, FLOOR DRAINS AND HUB DRAINS FOR EQUIPMENT WITH OTHER TRADES. 22. PROVIDE LINE SIZED SHUT-OFF VALVE IN ALL HOT AND COLD WATER BRANCHES SERVING PLUMBING FIXTURES OR EQUIPMENT. 23. ALL PIPING PENETRATIONS THRU COUNTERTOPS BY PLUMBING CONTRACTOR.
- PROVIDE CHROME PLATED ESCUTCHEON. 24. PROVIDE A WATER HAMMER ARRESTOR ON HOT AND COLD WATER LINES AT ENDS OF MAINS. AT ENDS OF BRANCH LINES, AT END OF LINES SERVING GROUPS OF PLUMBING FIXTURES AND FOR ALL QUICK CLOSING VALVES. SIZE AND INSTALL ARRESTORS AS RECOMMENDED BY PDI WH-201 TO ELIMINATE WATER HAMMER. INSTALL WHERE ACCESSIBLE FOR SERVICE AND PROVIDE ISOLATION VALVE AND ACCESS DOOR IF REQUIRED.
- 25. REFER TO ARCHITECTUAL DRAWINGS FOR LOCATION, QUANTITY AND ARANGEMENT OF MEDICAL GAS OUTLETS AND ZONE VALVE LOCATIONS. 26. ALL NEW ZONE VALVE ENCLOSURES TO HAVE LINE SIZE BALL VALVES WITH
- ENCLOSURE FOR EACH MEDICAL GAS. 27. ALL MEDICAL GAS VALVES, ABOVE CEILINGS, TO HAVE LOCKABLE HANDLES. 28. CEILING MOUNTED EQUIPMENT BOOM ASSEMBLY SHALL COMPLY WITH NPFA 99C, PARAGRAPH 5.1.6.
- 29. PROVIDE ACCESS PANEL IN DRYWALL CEILINGS TO ACCESS ITEMS SUCH AS VALVES OR AREA ALARM SENSORS. . WHERE WAG OUTLETS ARE LOCATED IN ROOM, CONNECT 3/4" WAG INTO MV LINE
- SERVING ROOM. CONNECTION POINT TO BE AS REQUIRED BY NFPA 99. ALTERNATE MEDICAL GAS AREA ALARM SENSOR LOCATION: PROVIDE ZONE VALVE BOX WITH SENSORS ON PATIENT SIDE OF VALVES.
- THE CONTRACTOR IS RESPONSIBLE FOR FIRESTOPPING AT ALL PLUMBING RELATED PENETRATIONS OF FIRE, SMOKE AND OTHER RATED STRUCTURES, INCLUDING FLOORS, WALLS, PARTITIONS, ETC.. REFER TO ARCHITECTURAL DOCUMENTATION FOR LOCATIONS OF ALL RATED STRUCTURES, AND SPECIFIC INFORMATION AND REQUIRMENTS PERTAINING TO SAME.
- . LAYOUT AND INSTALLATION OF PIPING, EQUIPMENT AND APPURTENANCES INDICATED ON PLAN IS SCHEMATIC IN NATURE. EXAT LOCATION, ROUTING AND INSTALLATION TO BE COORDINATED WITH BUILDING STRUCTURES AND ALL OTHER TRADES. . UNLESS INDICATED OTHERWISE, ALL FIXTURES AND EQUIPMENT PROVIDED WITH PLUMBING SUPPLY PIPING TO BE FURNISHED WITH APPROVED/LISTED STOPS IN ACCESSIBLE LOCATIONS.
- . UNLESS INDICATED OTHERWISE BY THE ARCHITECTURAL DOCUMNETATION (WHICH SHALL TAKE PRECEDENCE), PLUMBING FIXTURES AND EQUIPMENT MOUNTING HEIGHTS SHALL BE AS INDICTAED ON PLUMBING FIXTURE SCHEDULE.
- . PLUMBING PIPING IS NOT PERMITTED TO RUN ABOVE ANY ELECTRICAL SWITCH GEAR, MOTOR CONTROL CENTERS OR PANELS (INCLUDING ACCESS/CLEARANCE SPACE 42" IN FRONT OF THESE ITEMS, AND MIN 30" WIDE), UNDER ANY CIRCUMSTANCES. LOCATION OF NEW ITEMS OF THESE TYPES TO BE DETERMINED AND CONFIRMED FROM INDICATION BY THE PROJECT ELECTRICAL DOCUMENTATION, AND ACTUAL INSTALLATION CONFIRMED WITH THE ELECTRICAL CONTRACTOR PRIOR TO START OF WORK.
- . THE SIZES OF SOIL, WASTE, VENT AND WATER BRANCH PIPING TO SINGLE FIXTURES SHALL BE AS SCHEDULED IN THE PLUMBING FIXTURE SCHEDULE. 8. CONTRACTOR TO PROVIDE MISCELLANEOUS STEEL AS REQUIRED TO SUUPORT EQUIPMENT AND ASSOCIATED COMPONENTS SUCH AS CONTROL PANELS, TANKS, VALVES, PIPING, VIARIABLE SPEED DRIVES, ETC. MISCELLANEOUS STEEL TO CONSIST OF GALVANIZED STRUT, ANGLE IRON, CHANNELS OR OTHER STANDARD GLAVANIZED STEEL ELEMENTS. ALL WELDED CONNECTIONS TO BE GROUND AND COLD GALVANIZED
- IN THE FIELD. 39. THE MEDICAL GAS SYSTEMS ARE TO BE DESIGNED AND INSTALLED PER NFPA 99, 2015 VERSION, AND ASSE 6000 SERIES REQUIREMENTS. D. PROVIDE BACKFLOW PREVENTER OR VACUUM BREAKER IN DOMESTIC WATER LINES, WHERE BACKFLOW OR BACK PRESSURE MAY OCCUR, AS REQUIRED BY THE STATE OR
- LOCAL JURISDICTION. EQUIPMENT SUCH AS STERILIZERS, COFFEE MAKERS, WASHERS/DISINFECTORS, ULTRASONIC CLEANERS, CARBONATED VENDING MACHINES, WATER COOLED ICE MAKERS, SHOWER MIXING VALVES WITH HOSES, HOSE BIBBS AND WALL HYDRANTS ARE TO INCLUDE BACKFLOW PREVENTION DEVICES IN THE WATER LINES THAT SERVE THEM.
- ALL SANITARY VENT LINES ARE TO TAKE OFF FROM SANITARY WASTE BRANCHES AT 45 DEGREE RISE OFF TOP OF PIPE. 42. PROVIDE SHUT-OFF BALL VALVE IN WATER LINES SERVING TRAP PRIMER DISTRIBUTION UNITS, BALANCING VALVES AND WATER HAMMER ARRESTORS.

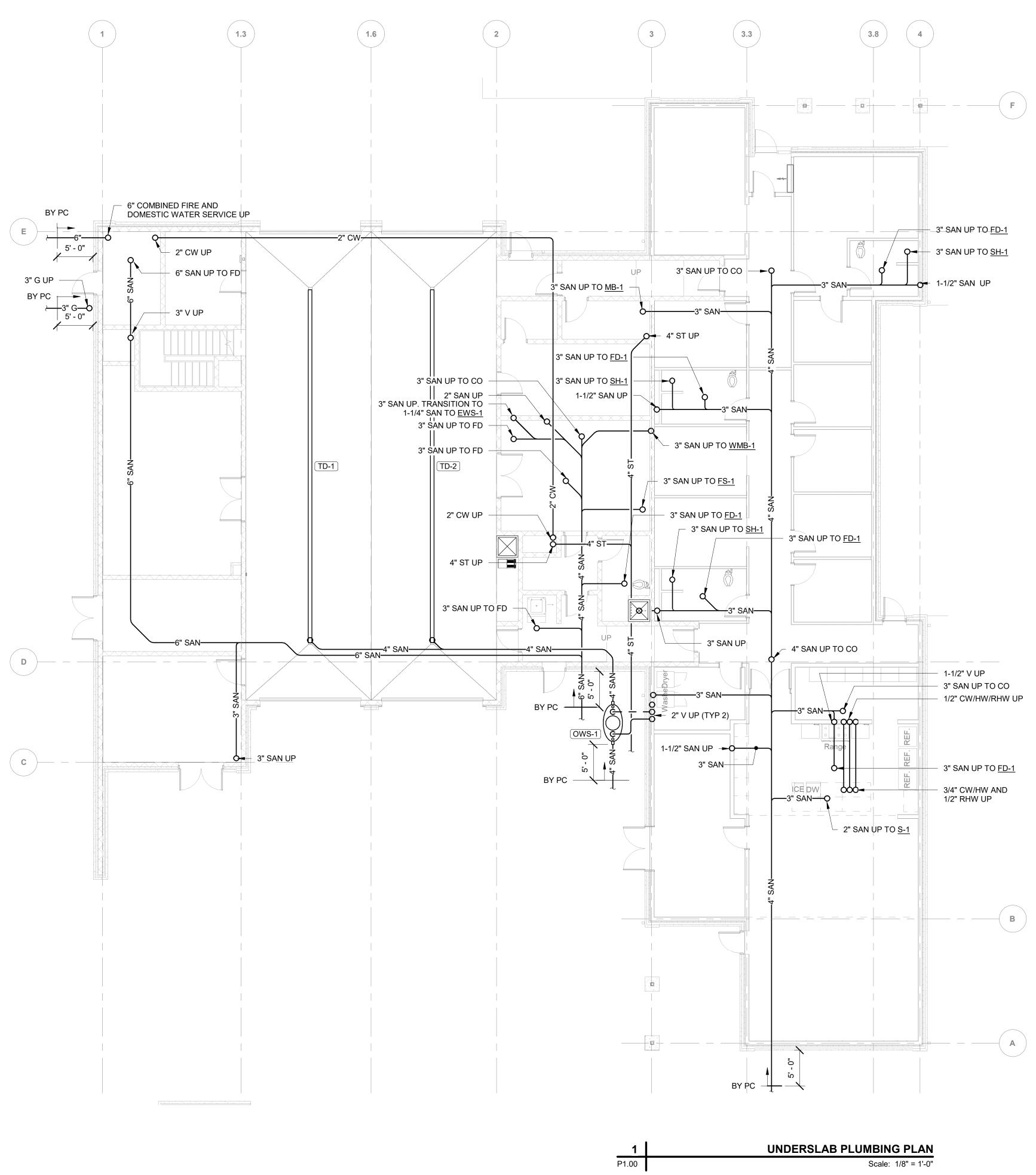
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NOTES: 1. PROVIDE WITH DRAIN VALVE, OIL/WATER SEPARATOR AND FILTER.



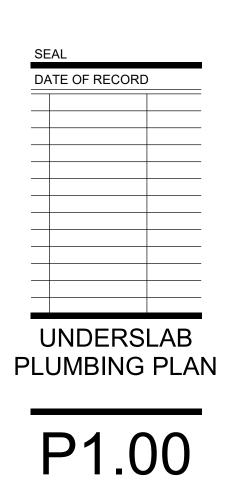
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PROJECT NO. 00000000







— 1/2" CW/HW/RHW UP



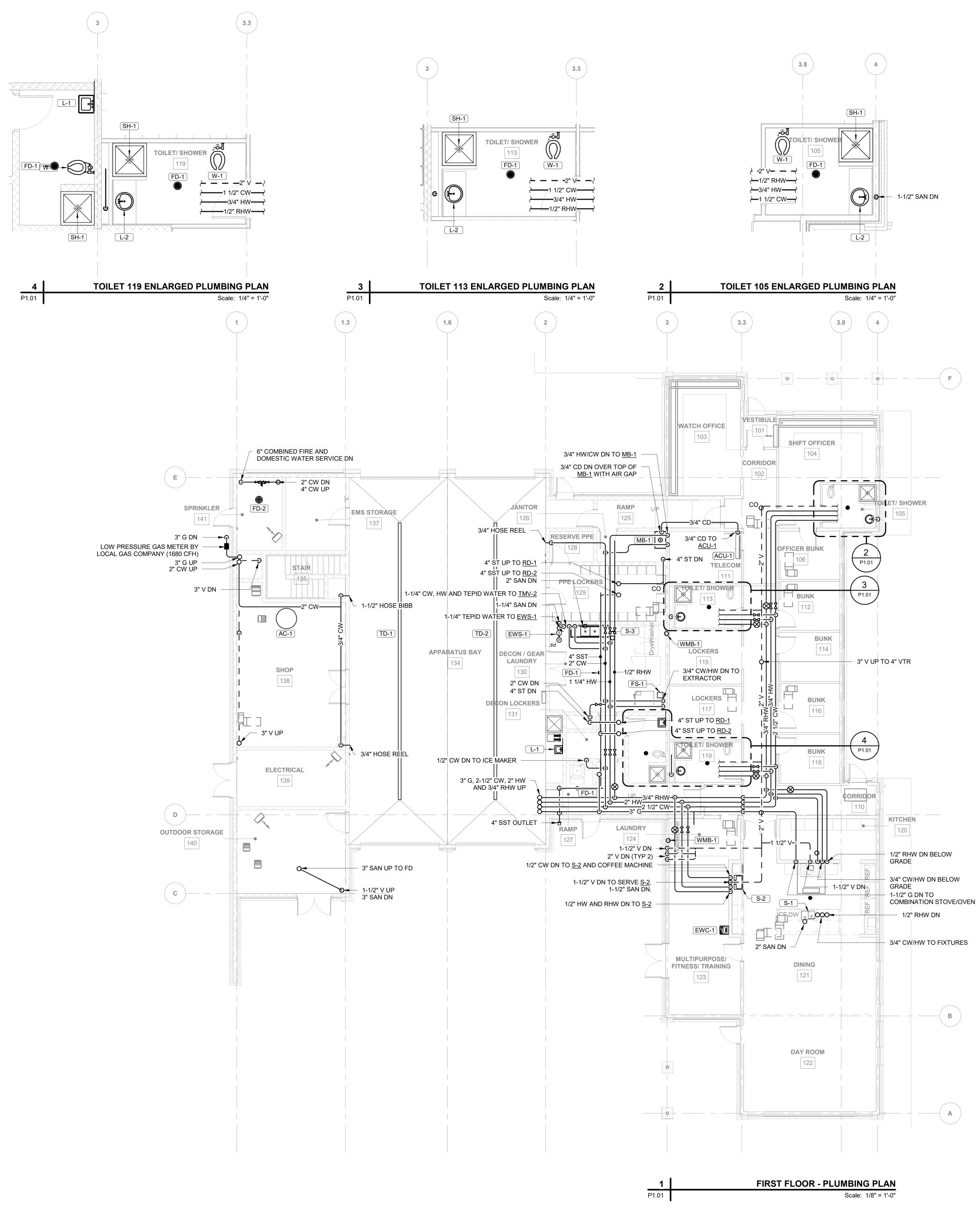




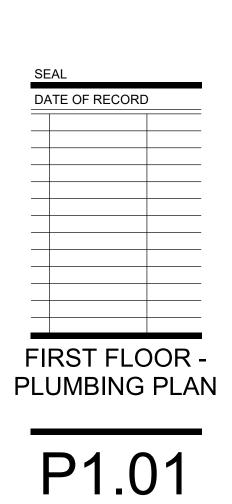


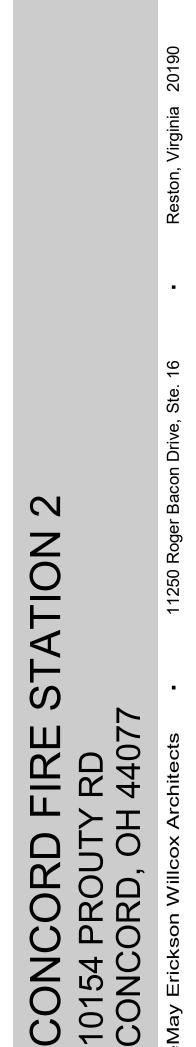


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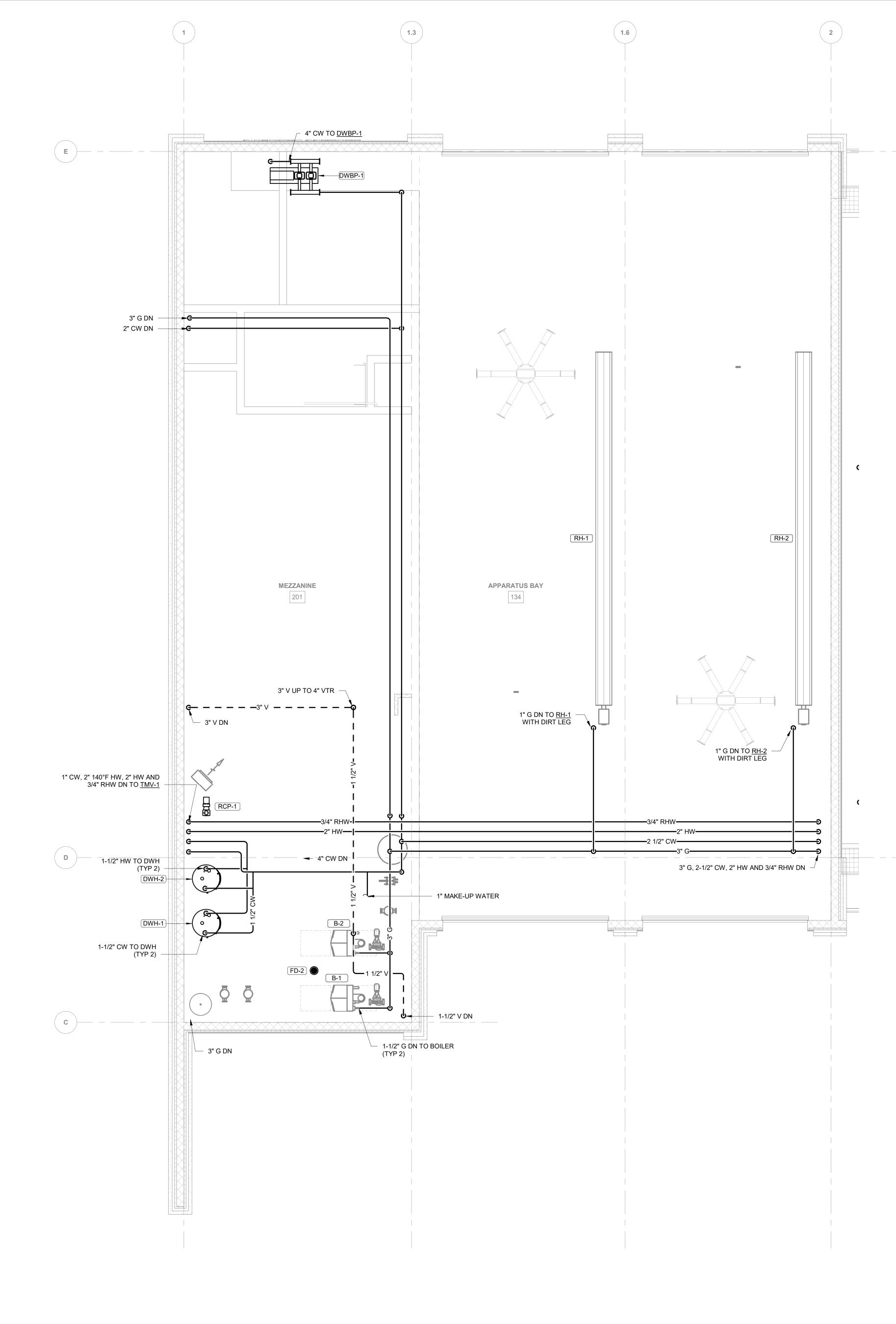










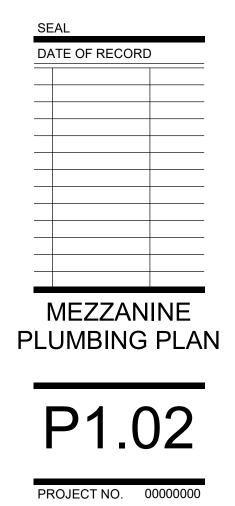


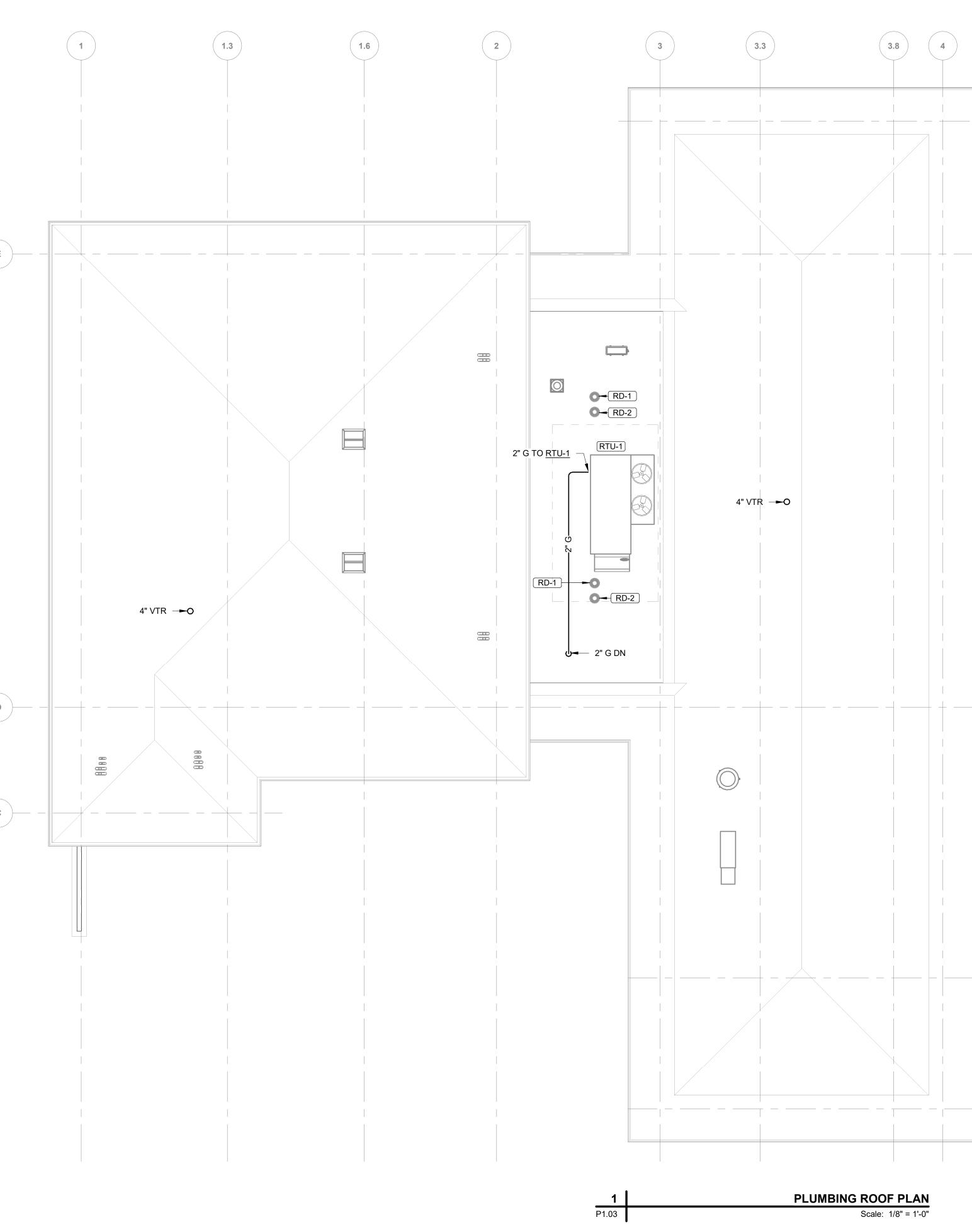
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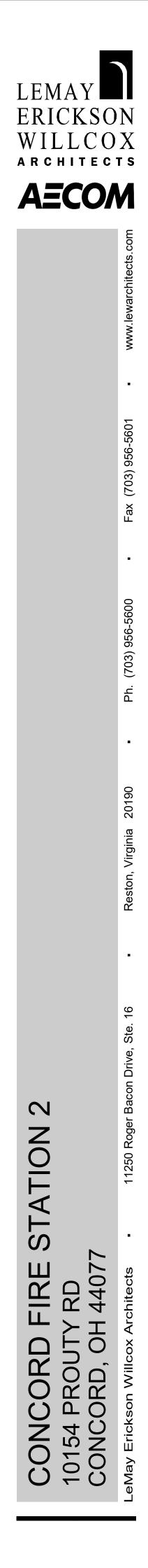
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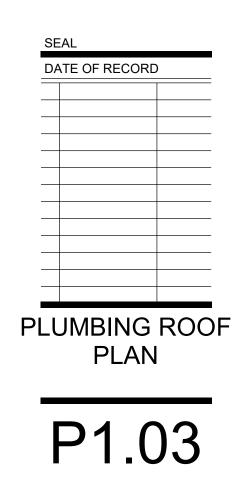
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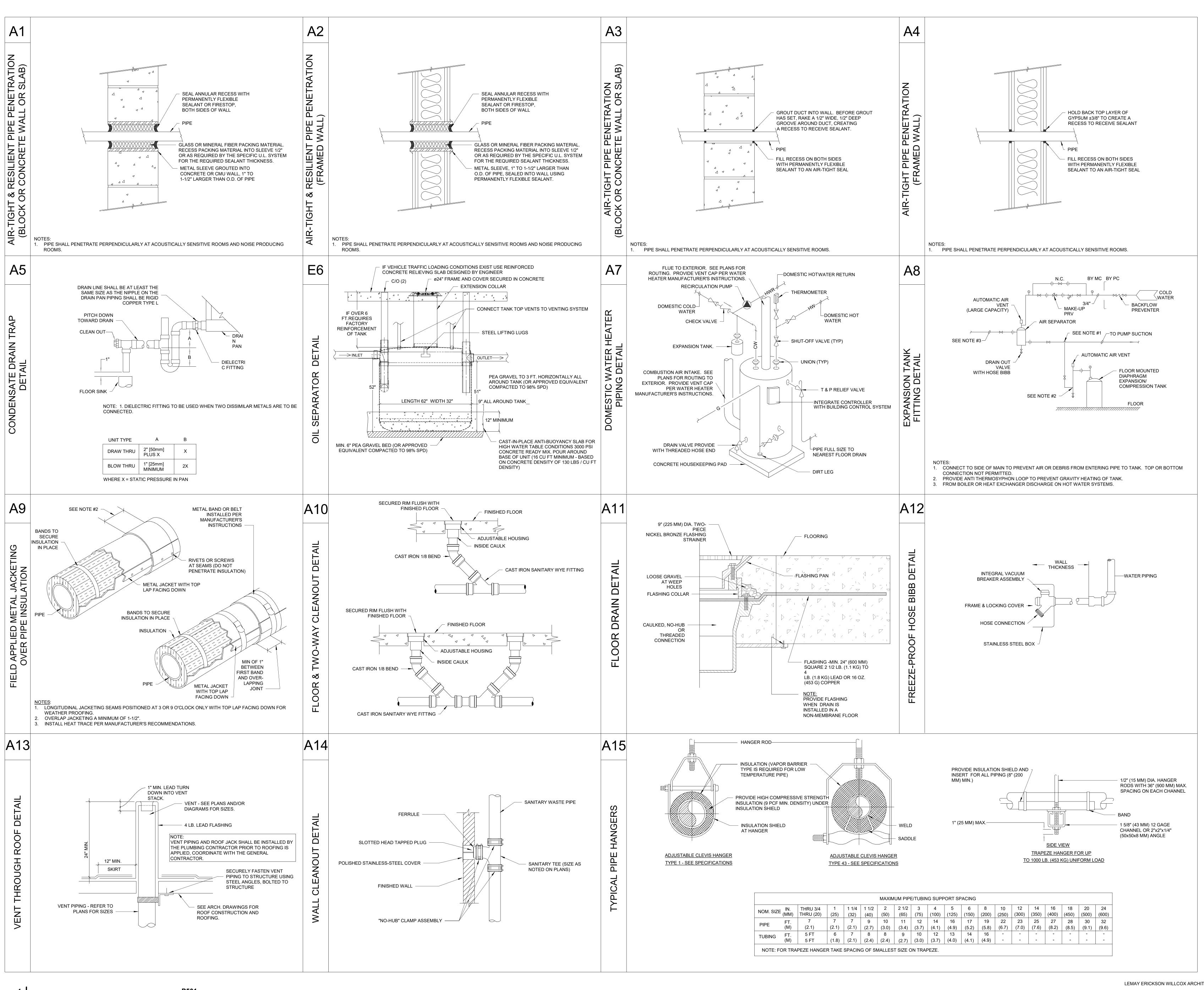


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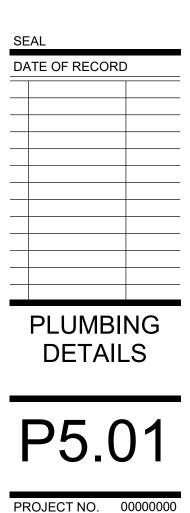




P501 P5.01 Scale: 1/8" = 1'-0"



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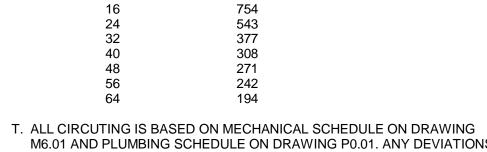


	ELECTRICAL A	BBREV	IATIONS
1PH	SINGLE-PHASE	ICCB	INSULATED CASE CIRCUIT BREAKER
1P 2/C 2W 3PH	1 POLE (2P,3P,4P, ETC.) 2 CONDUCTOR (3/C, 4/C, ETC.) 2-WIRE (3W, 4W, ETC.) THREE-PHASE	IESNA IG IMC I/O	ILLUMINATION ENGINEERING SOCIETY OF NORTH AMERICA ISOLATED GROUND INTERMEDIATE METAL CONDUIT INPUT / OUTPUT
A	AMMETER, AMPERE	IR	INFRARED
AC A/C ACT	ALTERNATING CURRENT OR ARMORED CABLE AIR CONDITIONING UNIT ABOVE COUNTERTOP	J-BOX kV	JUNCTION BOX
ADDL ADJ	ADDITIONAL ADJACENT, ADJOINING	kVA kV/H	KILOVOLT AMPERE KILOVOLT AMPERE PER HOUR
ADO A/E	AUTOMATIC DOOR OPENER ARCHITECT/ENGINEER	kVAR kW	KILOVOLT AMPERE REACTIVE KILOWATT
AF AFC AFCI	AMPERE FRAME OR AMP FUSE AVAILABLE FAULT CURRENT ARC FAULT CIRCUIT INTERRUPTER	kWH LAN	KILOWATT HOUR
AFF AFG AHJ	ABOVE FINISHED FLOOR ABOVE FINISHED GRADE	LCP LED	LIGHTING CONTROL PANEL LIGHT EMITTING DIODE
AHU AIC	AUTHORITY HAVING JURISDICTION AIR HANDLING UNIT AMPERE INTERRUPTING CAPACITY	LF LP LRA	LINEAR FEET (FOOT) LIGHT POLE LOCKED ROTOR AMPS
AL ALT AMB	ALUMINUM ALTERNATE	LRP LSIG LS	LIGHTING RELAY PANEL LONG, SHORT, INSTANTANEOUS, GROUND LIFE SAFETY
AMP APPROX	AMBIENT AMPERE, AMPACITY, AMPLIFIER APPROXIMATELY	LS LTG LTNG	LIGHTING LIGHTNING
ARCH AT ATS	ARCHITECT, ARCHITECTURAL AMPERE TRIP AUTOMATIC TRANSFER SWITCH	LV	LOW VOLTAGE MAXIMUM
AUTO AUX	AUTOMATIC AUXILIARY	MCA MCA	METAL-CLAD OR MECHANICAL CONTRACTOR MINIMUM CIRCUIT AMPS
A/V AWG	AUDIO / VISUAL AMERICAN WIRE GAUGE	MCB MCC MCCB	MAIN CIRCUIT BREAKER MOTOR CONTROL CENTER MOLDED CASE CIRCUIT BREAKER
BAT BKR	BATTERY BREAKER	MDP MECH	MAIN DISTRIBUTION PANEL MECHANICAL
BLDG BMS BOD	BUILDING BUILDING MANAGEMENT SYSTEM BASIS OF DESIGN	MEGB MFR MH	MAIN ELECTRICAL GROUND BUSBAR MANUFACTURER MANHOLE
BOF BYP	BOTTOM OF FIXTURE BYPASS	MIN MISC	MINIMUM MISCELLANEOUS
C CAP	CONDUIT CAPACITY	MOCP MLO MSB	MAXIMUM OVERCURRENT PROTECTION MAIN LUGS ONLY MAIN SWITCHBOARD
CAT CATV	CATALOG COMMUNITY ANTENNA TELEVISION	MT,MTD,MTG MTGB	MOUNT, MOUNTED, MOUNTING MAIN TELECOM GROUND BUSBAR
CCTV CD CD	CLOSED CIRCUIT TELEVISION CANDELA CONSTRUCTION DOCUMENTS	MTR MTS MV	MOTOR, MOTORIZED MANUAL TRANSFER SWITCH MEDIUM VOLTAGE
CFCI CFOI CKT	CONTRACTOR FURNISHED, CONTRACTOR INSTALLED CONTRACTOR FURNISHED, OWNER INSTALLED	MVA MW	MEGAVOLT-AMPERE MEGAWATT
CKT BKR CLF	CIRCUIT CIRCUIT BREAKER CURRENT LIMITING FUSE	N/A N.C.	NOT APPLICABLE NORMALLY CLOSED
CLG CMU COAX	CEILING CONCRETE MASONRY UNIT COAXIAL CABLE	NEC NEMA NEUT OR N	NATIONAL ELECTRICAL CODE NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION NEUTRAL
COMB COMM	COMBINATION COMMUNICATION	NFPA NIC	NATIONAL FIRE PROTECTION ASSOCIATION NOT IN CONTRACT
CONC CONN CONST	CONCRETE CONNECTION CONSTRUCTION	NL N.O. NTS	NIGHT LIGHT NORMALLY OPEN NOT TO SCALE
CONT CONTR	CONTINUE, CONTINUATION CONTRACTOR	ос	ON CENTER
CPT CR CRI	CONTROL POWER TRANSFORMER CRITICAL COLOR RENDERING INDEX	OFCI OFOI OL	OWNER FURNISHED, CONTRACTOR INSTALLED OWNER FURNISHED, OWNER INSTALLED OVERLOAD
CT CTR CU	CURRENT TRANSFORMER CENTER COPPER	P PA	POLE PUBLIC ADDRESS
DB	DECIBEL, DUCTBANK	PB PF	PULL BOX, OR PUSHBUTTON POWER FACTOR
DC DEG C DEG F	DIRECT CURRENT DEGREES CELSIUS DEGREES FAHRENHEIT	PH PIV PLC	PHASE POST INDICATOR VALVE PROGRAMMABLE LOGIC CONTROLLER
DEMO DIA	DEMOLITION DIAMETER	PNL PP	PANEL POWER POLE
DIAG DISC DIST	DIAGRAM DISCONNECT DISTRIBUTION	PR PRI PT	PAIR PRIMARY POTENTIAL TRANSFORMER
DN DPDT DPST	DOWN DOUBLE POLE, DOUBLE THROW DOUBLE POLE, SINGLE THROW	PVC PWR	POLYVINYL CHLORIDE (PLASTIC) POWER
DS DWG	DISCONNECT SWITCH DRAWING	QTY	QUANTITY
EC EG	ELECTRICAL CONTRACTOR EQUIPMENT GROUND	RCP RCPT RGS	REFLECTED CEILING PLAN RECEPTACLE RIGID GALVANIZED STEEL
EGB EL	ELECTRICAL GROUND BUSBAR ELEVATION	RMS RM	ROOT MEAN SQUARE ROOM
ELEC EM EMI	ELECTRIC, ELECTRICAL EMERGENCY ELECTROMAGNETIC INTERFERENCE	RTU SA	ROOF TOP UNIT SURGE ARRESTER
EMT E.O. EPMS	ELECTRICAL METALLIC TUBING ELECTRICALLY OPERATED	SCC SEC SF	SHORT CIRCUIT CAPACITY SECONDARY
EPO EWC	ELECTRICAL POWER MANAGEMENT SYSTEM EMERGENCY POWER OFF ELECTRIC WATER COOLER	SP SPD	SQUARE FOOT (FEET) SPARE SURGE PROTECTIVE DEVICE
EWH EXIST EXP	ELECTRIC WATER HEATER EXISTING EXPLOSION PROOF	SPEC SPST STD	SPECIFICATION SINGLE POLE, SINGLE THROW STANDARD
FA	FIRE ALARM	SW SWBD	SWITCH SWITCHBOARD
FAAP FABP FACP	FIRE ALARM ANNUNCIATOR PANEL FIRE ALARM BOOSTER POWER SUPPLY PANEL FIRE ALARM CONTROL PANEL	SWGR SYM SYS	SWITCHGEAR SYMMETRICAL SYSTEM
FBO FC	FURNISHED BY OTHERS FOOTCANDLE	T/C	TIME CLOCK
FCU FIXT FLA	FAN COIL UNIT FIXTURE FULL LOAD AMPS	TL TR TTB	TWIST LOCK TAMPER RESISTANT, TIMER RELAY TELEPHONE TERMINAL BOARD
FLEX FLR FLT	FLEXIBLE METALLIC CONDUIT FLOOR FLOODLIGHT	TV TYP	TELEVISION TYPICAL
FLUOR FT	FLUORESCENT FEET OR FOOT	UC UG	
FU G/GRD/GND	FUSE GROUND	UL UNO UPS	UNDERWRITERS LABORATORY UNLESS NOTED OTHERWISE UNINTERRUPTIBLE POWER SUPPLY
GA GAL	GAUGE GALLON	UTIL	UTILITY
GC GEC GEN	GENERAL CONTRACTOR GROUNDING ELECTRODE CONDUCTOR GENERATOR	V VA VAR	VOLT, VOLTAGE VOLT AMPERE VOLT AMPERE REACTIVE
GFCI GRC	GROUND FAULT CIRCUIT INTERRUPTER GALVANIZED RIGID CONDUIT	VFD	VARIABLE FREQUENCY DRIVE
GTB НН	GROUND TERMINAL BOX HANDHOLE	W W/ WG	WATT WITH WIRE GUARD
HOA HP HRG	HAND-OFF-AUTOMATIC HORSEPOWER HIGH RESISTANCE GROUND	WH W/O WP	WATT HOUR, WATER HEATER WITHOUT WEATHERPROOF
HV HVAC	HIGH VOLTAGE HEATING, VENTILATING AND AIR CONDITIONING	XFER	TRANSFER
HZ	HERTZ	XFMR	TRANSFORMER

	ONE-LINE DIAG	RAM S	(MBOLS
\ X, Y	DISCONNECT SWITCH X INDICATES SIZE, Y INDICATES NUMBER OF POLES IF OTHER THAN 3.		CIRCUIT BREAKER X INDICATES FRAME SIZE, Y INDICATES TRIP RATING, Z INDICATES NUMBER OF POLES IF OTHER THAN 3.
√x, z	FUSED SWITCH X INDICATES SWITCH SIZE, Y INDICATES FUSE SIZE, Z INDICATES NUMBER OF POLES IF OTHER THAN 3.	Z (LSI O Y	DRAWOUT CIRCUIT BREAKER X INDICATES FRAME SIZE, Y INDICATES TRIP RATING, Z INDICATES NUMBER OF POLES IF OTHER THAN 3.
☐ x	FUSE X INDICATES SIZE		TRANSFORMER KVA, PRI & SEC VOLTAGE, K-RATING, ETC. AS INDICATED OR SPECIFIED.
o∖ o 0	TRANSFER SWITCH AMP RATING, NUMBER OF POLES, ETC. AS INDICATED OR SPECIFIED.		FULL VOLTAGE, NON- REVERSING STARTER
	FUSED POTENTIAL TRANSFORMER		CURRENT TRANSFORMER
<u> </u>	EARTH GROUND	K	KEYED INTERLOCK
GFP	GROUND FAULT PROTECTOR	xxx	PANELBOARD
SPD	SURGE PROTECTIVE DEVICE		TARLEBOARD
A	AMMETER	W	WATT METER
V	VOLTMETER	G	GENERATOR
		M	MOTOR (M=HP)
		-	

GENERAL ELECTRICAL NOTES	
A. THIS IS A STANDARD LEGEND SHEET. SOME SYMBOLS OR ABBREVIATIONS APPEAR ON THIS SHEET AND NOT ON PROJECT	

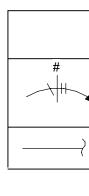
- DRAWINGS. B. UNLESS OTHERWISE INDICATED, MOUNTING ELEVATIONS ARE CENTERLINE ELEVATIONS.
- C. CONDUIT HOMERUNS NOT OTHERWISE MARKED SHALL BE CONSIDERED 2#12 AND 1#12 GROUND IN 3/4" MIN. CONDUIT.
- D. CIRCUITS ARE RATED FOR INDOOR OVERHEAD ROUTING. OBTAIN ENGINEER APPROVAL ON DERATING FOR UNDERGROUND, TRAY, PLENUM AND ROOF-MOUNTED INSTALLATIONS. LIMIT VOLTAGE DROP TO 2% FOR FEEDERS AND 3% FOR BRANCH CIRCUITS.
- E. CONTRACTOR <u>SHALL NOT BE PERMITTED</u> TO CONSOLIDATE INDIVIDUAL BRANCH CIRCUIT HOME RUNS EXCEPT AS FOLLOWS: a: WHEN SHOWN ON DRAWINGS b: WITH PRIOR WRITTEN APPROVAL BY THE ENGINEER c: ABOVE ACCESSIBLE CEILING NEAR PANEL. ALL 120V & 277V BRANCH CIRCUITS SHALL HAVE DEDICATED NEUTRAL CONDUCTORS. CONSOLIDATED HOMERUNS SHALL HAVE A
- MAXIMUM OF 3 SEPARATE PHASE CONDUCTORS. F. WIRE AND CONDUIT SIZES AND QUANTITIES FOR FEEDERS AND BRANCH CIRCUITS WHICH ARE SHOWN ON ONE-LINE DIAGRAMS APPLY TO PLAN SHEETS.
- G. ALL WALL AND FLOOR PENETRATIONS FOR CONDUIT INSTALLATION SHALL BE PROPERLY SEALED AND FIRE STOPPED.
- H. NEMA 1 UNLESS INDICATED OTHERWISE, 3R=NEMA 3R, 4X=NEMA 4X, WP=WEATHERPROOF, X=EXPLOSIONPROOF.
- J. TRAVELERS FOR MULTIPLE LOCATION SWITCHING ARE NOT MARKED ON THE PLANS. CONTRACTOR SHALL PROVIDE QUANTITY OF CONDUCTORS REQUIRED FOR THE INDICATED SWITCHING.
- K. CIRCUIT IDENTIFICATION SHALL BE AS FOLLOWS: A-5,7 INDICATES TWO SINGLE POLE BREAKERS AT CIRCUITS 5 & 7 OF PANELBOARD A. F-19/21/23 INDICATES A THREE POLE BREAKER AT CIRCUITS 19, 21 & 23 OF PANELBOARD F.
- L. SERIES OR CASCADED RATINGS ARE NOT ALLOWED UNLESS SPECIFICALLY NOTED.
- M. NO WIRING DEVICES OR OUTLET BOXES SHALL BE INSTALLED BACK-TO-BACK. CONTRACTOR SHALL CORRDINATE ALL RECEPTACLE MOUNTING HEIGHTS WITH APPROVED CASEWORK SHOP DRAWINGS PRIOR TO INSTALLATION OF AFFECTED RECEPTACLES.
- N. WALL-MOUNTED EXIT SIGNS INDICATED ABOVE DOORS SHALL BE CENTERED BETWEEN THE TOP OF DOOR FRAME AND CEILING IF VERTICAL DISTANCE BETWEEN THE TWO IS 24 INCHES OR LESS; OTHERWISE, MOUNT BOTTOM OF EXIT SIGN 6 INCHES ABOVE TOP OF DOOR FRAME.
- P. CONSTRUCTION DETAILS SHOWN ON X-X SERIES DRAWINGS SHOW TYPICAL INSTALLATION UNLESS OTHERWISE NOTED AND APPLY TO ELECTRICAL WORK INCLUDED IN THIS PACKAGE EVEN THOUGH NOT SPECIFICALLY REFERENCED ON THE PLAN DRAWINGS.
- Q. COORDINATE LOCATIONS OF DEVICES WITH ARCHITECTURAL ELEVATIONS AND DETAILS. ARCHITECTURAL ELEVATIONS AND DETAILS TAKE PRECEDENCE OVER LOCATIONS SHOWN ON ELECTRICAL DRAWINGS.
- R. DRAWINGS REPRESENT ELECTRICAL DESIGN INTENT. CONTRACTOR SHALL FURNISH, INSTALL, AND SIZE ALL SLEEVES, HOLES, CORES, PATCHING, SLOTS, ANCHORS, BRACKETS, SUPPORTS, JUNCTION BOXES, PULL BOXES, AND OTHER APPURTENANCES NECESSARY TO EXECUTE THE CONTRACT DOCUMENTS COMPLETE. SOME OF THESE ITEMS MAY BE SHOWN ON THE DRAWINGS FOR CLARITY OR DESIGN PREFERENCE. HOWEVER, NOT ALL OF THE ITEMS, NECESSARY FOR COMPLETE EXECUTION AND INSTALLATION, ARE SHOWN.
- S. THE RECOMMENDED CIRCUIT LENGTHS AND CIRCUIT LOADING SHALL NOT EXCEED THESE REQUIREMENTS WHEN INSTALLING THE EMERGENCY LIGHTING REMOTE HEADS. 24 VOLT WIRE SIZE, #10AWG. TOTAL WATTS WIRING DISTANCE IN FEET 1.698



M6.01 AND PLUMBING SCHEDULE ON DRAWING P0.01. ANY DEVIATIONS ON MANUFACTURERS THAT AFFECTS CIRCUITING, OVERCURRENT PROTECTION, ETC.; THIS WORK SHALL BE REVISED, FURNISHED, AND INSTALLED AT NO ADDITIONAL COST TO THE OWNER.

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^{\$} LVOSa
^{\$} LVa
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LIGHTING PLAN SYMBOLS

	WALL SWITCH WITH COVERPLATE, STANDARD MOUNTING HEIGHT 48" A.F.F.: x LOWER CASE LETTER INDICATES CONTROL, Y UPPER CASE LETTERINDICATES THE FOLLOWING:
	BLANK =SINGLE POLE 3 =THREE POLE (3-WAY) WP =WEATHER-RESISTANT & WEATHERPROOF-IN-USE
	SINGLE GANG, LOW VOLTAGE TIMER SWITCH, LOWER CASE LETTER INDICATES CONTROL
	SINGLE GANG, LOW VOLTAGE OCCUPANCY (VACANCY TYPE) SENSOR, LOWER CASE LETTER INDICATES CONTROL
	SINGLE GANG, LOW VOLTAGE MOMENTARY PUSHBUTTON (DIMMER) SWITCH, LOWER CASE LETTER INDICATES CONTROL
	2-GANG W/ (2) LOW VOLTAGE MOMENTARY PUSHBUTTON (DIMMER) SWITCHES, LOWER CASE LETTERS INDICATE CONTROLS
	4-GANG W/ (3) LOW VOLTAGE MOMENTARY PUSHBUTTON (DIMMER) SWITCHES & (1) 5-BUTTON SCENE SWITCH, LOWER CASE LETTERS INDICATE CONTROLS
	CLG MTD DAYLIGHT HARVESTING (DH) SENSOR, SINGLE ZONE CLOSED LOOP TYPE
	CLG OR WALL MTD OCCUPANCY SENSOR (OS), PASSIVE INFRARED TYPE
	CLG MTD VACANCY SENSOR (VS), DUAL TECHNOLOGY TYPE
	PHOTOCELL, AIM IN NORTHERN DIRECTION
	LIGHT FIXTURE - "#" INDICATES CIRCUIT NUMBER, "XX" INDICATES FIXTURE TYPE (REFER TO LUMINAIRE SCHEDULE), & "x,y" INDICATES SWITCH CONTROL.
	LIGHT FIXTURE ON LIFE SAFETY BRANCH CIRCUIT
	EMERGENCY BATTERY PACK (REFER TO LUMINAIRE SCHEDULE)
	CEILING MOUNTED, EXIT SIGN (REFER TO LUMINAIRE SCHEDULE), DIRECTIONAL ARROWS AS INDICATED ON PLANS, SHADED SIDES ARE ILLUMINATED.
	CEILING MOUNTED, DOUBLE FACED EXIT SIGN
	WALL MOUNTED, SINGLE FACED EXIT SIGN (REFER TO LUMINAIRE SCHEDULE), DIRECTIONAL ARROWS AS INDICATED ON PLANS, SHADED SIDES ARE ILLUMINATED.
	WALL MOUNTED, DOUBLE FACED EXIT SIGN
-	DOWNLIGHT (REFER TO LUMINAIRE SCHEDULE)
	WALL MOUNTED LIGHT (REFER TO LUMINAIRE SCHEDULE)

CIRCUITS

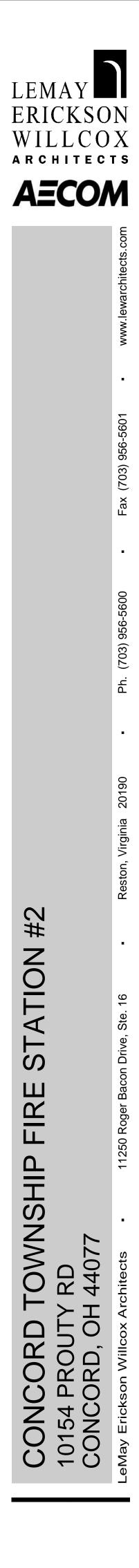
HOME RUN. HASH MARKS INDICATE QTY OF WIRE, # INDICATES SIZE OF WIRE OTHER THAN #12 AWG. ALL UNMARKED CONDUITS TO CONTAIN 2-#12 AWG PLUS GND WIRE, UNLESS NOTED OTHERWISE. CIRCUIT CONTINUATION

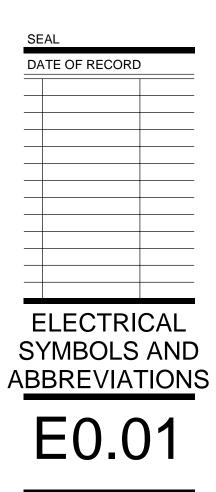
FIRE ALARM SYMBOLS
FIRE ALARM DEVICE, X INDICATES TYPE WP INDICATES WEATHERPROOF-IN-USE
SMOKE DETECTOR - PHOTOELECTRIC
REMOTE TEST STATIONS
HEAT DETECTOR
DUCT DETECTOR (FURNISHED BY MC, WIRING BY EC)
MANUAL PULL STATION
WATER FLOW SWITCH (PROVIDED BY MC, WIRING BY EC)
VALVE TAMPER SWITCH (PROVIDED BY MC, WIRING BY EC)
CONTROL RELAY MODULE
MONITOR MODULE
STROBE LIGHT
HORN STROBE
FIRE ALARM CONTROL PANEL
FIRE ALARM ANNUNCIATOR PANEL
FIRE ALARM POWER EXTENDER PANEL
FIRE ALARM YARD MOUNT POST INDICATOR VALVE

(PROVIDED BY MC, WIRING BY EC

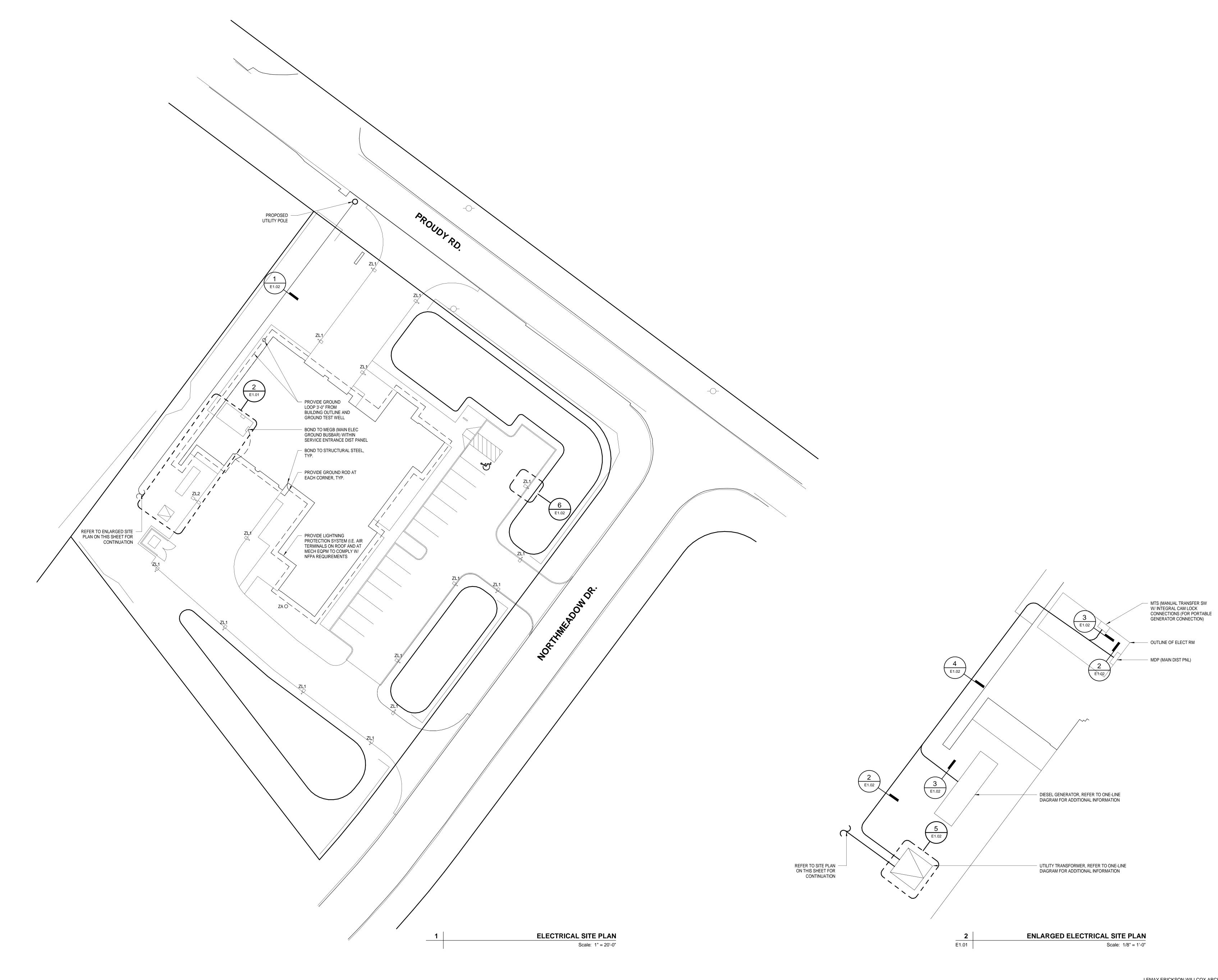
	POWER PLAN SYMBOLS
	FOWER FLAN STINDULS
Х ү Ф z	NORMAL POWER DUPLEX RECEPTACLE WITH COVERPLATE, NEMA 5-20R, STANDARD MOUNTING HEIGHT 18" A.F.F. UNLESS OTHERWISE NOTED: X INDICATES CIRCUIT NUMBER, Y INDICATES NON-STANDARD MOUNTING HEIGHT, AND Z INDICATES THE FOLLOWING:
	A=ABOVE COUNTER TOP; MTD 44" A.F.F.AC=HVAC CONTROL CONNECTION ABOVE CEILINGCOPY=COPIER; MTD 42" A.F.F.COFF=COFFEE MAKER; MTD 44" A.F.F.DW=DISHWASHERDO=DOOR OPERATOR
	EWC =ELECTRIC WATER COOLER EXTR =EXTRACTOR GD =GARBAGE DISPOSAL ICE =ICE MACHINE; MTD 44" A.F.F.
	M =MICROWAVE; MTD 44" A.F.F. OC =CONTROLLED VIA OCCUPANCY SENSOR P =PRINTER; MTD 44" A.F.F. REF =REFRIGERATOR; MTD 48" A.F.F.
	S=SURGE PROTECTEDSHR=SHREDDERTL=TWIST LOCKT=TAMPER RESISTANT
	TV=TELEVISION; MTD 72" A.F.F., UNLESS NOTED OTHERWISEU=USBUC REF=UNDER COUNTER REFRIGERATORV=VENDING, MTD 48" A.F.F.WP=WEATHER PROOFXP=EXPLOSION PROOF
•	EMERGENCY DUPLEX RECEPTACLE, SAME NOTATION AS ABOVE.
Ψ	GFCI DUPLEX RECEPTACLE , SAME NOTATION AS ABOVE.
P	EMERGENCY GFCI RECEPTACLE, SAME NOTATIONS AS ABOVE.
#	DOUBLE DUPLEX RECEPTACLE , SAME NOTATION AS ABOVE.
•	EMERGENCY DOUBLE DUPLEX RECEPTACLE, SAME NOTATION AS ABOVE.
φ	SIMPLEX RECEPTACLE, SAME NOTATION AS ABOVE.
φ	EMERGENCY SINGLE RECEPTACLE, SAME NOTATION AS ABOVE.
⊕ x	SPECIAL RECEPTACLE, 'X' INDICATES THE FOLLOWING: CS = NEMA L6-50R SA = NEMA L6-30R
♥ x	EMERGENCY SPECIAL RECEPTACLE, 'X' INDICATES SAME NOTATION AS "SPECIAL RECEPTACLE" ABOVE.
	FLOOR BOX WITH FLUSH MOUNTED DEVICE
Ф	CEILING MOUNTED DUPLEX RECEPTACLE
Ĵ	JUNCTION BOX / EQUIPMENT CONNECTION AV = AUDIO VISUAL WALL BOX FOR FLAT PANEL DISPLAY IR = CEILING MOUNTED INFRARED HEATER
M	1-PHASE MOTOR CONNECTION
Ŵ	3-PHASE MOTOR CONNECTION
m \$	MANUAL MOTOR STARTER, TOGGLE TYPE, WITH THERMAL OVERLOAD DEVICE
□h	NON-FUSED DISCONNECT SWITCH
F	FUSED DISCONNECT SWITCH, FUSE SIZE AS SHOWN WP = NEMA 3R, WEATHERPROOF
	COMBINATION MOTOR STARTER/DISCONNECT
٠	PUSH BUTTON, TYPE AS INDICATED OR NOTED
	PANELBOARD (SIZED TO SCALE)
	POWER TRANSFORMER (SIZED TO SCALE)
$\textcircled{\bullet}$	GROUND ROD
9	GROUND BONDING POINT TO STEEL STRUCTURE, REBAR, PIPE, ETC.
	GROUNDING CONNECTION (TYPE AS SHOWN OR NOTED)
	BARE COPPER GROUND CONDUCTOR, SIZE AS SHOWN
	GROUND BAR
MHX	MANHOLE: X INDICATES TYPE AS FOLLOWS P = POWER MANHOLE T = TELECOMMUNICATIONS MANHOLE

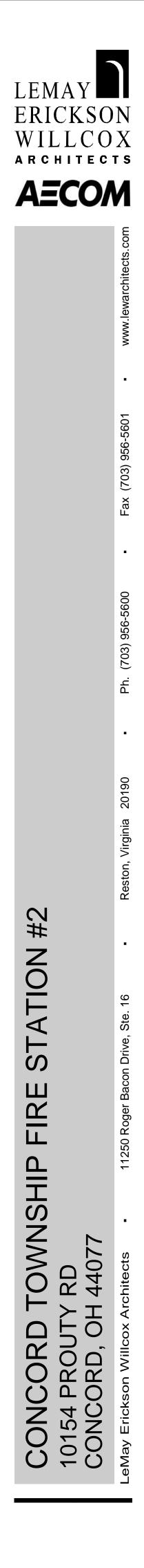
		R	1	W
		Å	Ă	A A
LOAD DESI E -	GNATION: EMERGENCY PANELBOARD			
	LIGHTING (NORMAL) PANELBOARD			
 M -	MECHANICAL PANELBOARD			
- -	RECEPTACLE/POWER PANELBOARD			
	JLAR TYPE OF PANEL IN THIS AREA:			
BLANK) -				
-	FIRST			
2 -	SECOND			
3 -	THIRD			
	FOURTH			
•	FIFTH			
	SIXTH SEVENTH			
	EIGHTH			
9 -	NINTH			
EAST OR W E -	EST (LOCATION): EAST			
	WEST			

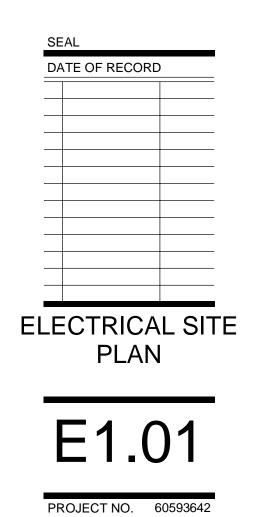


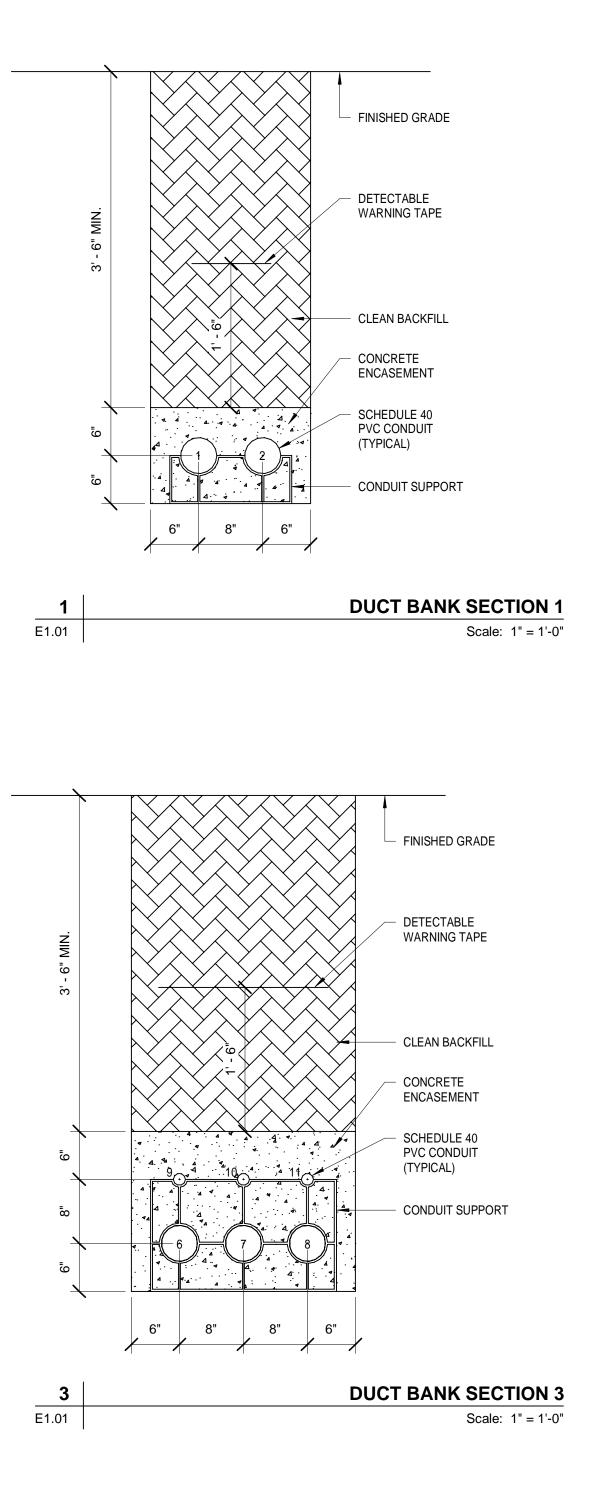








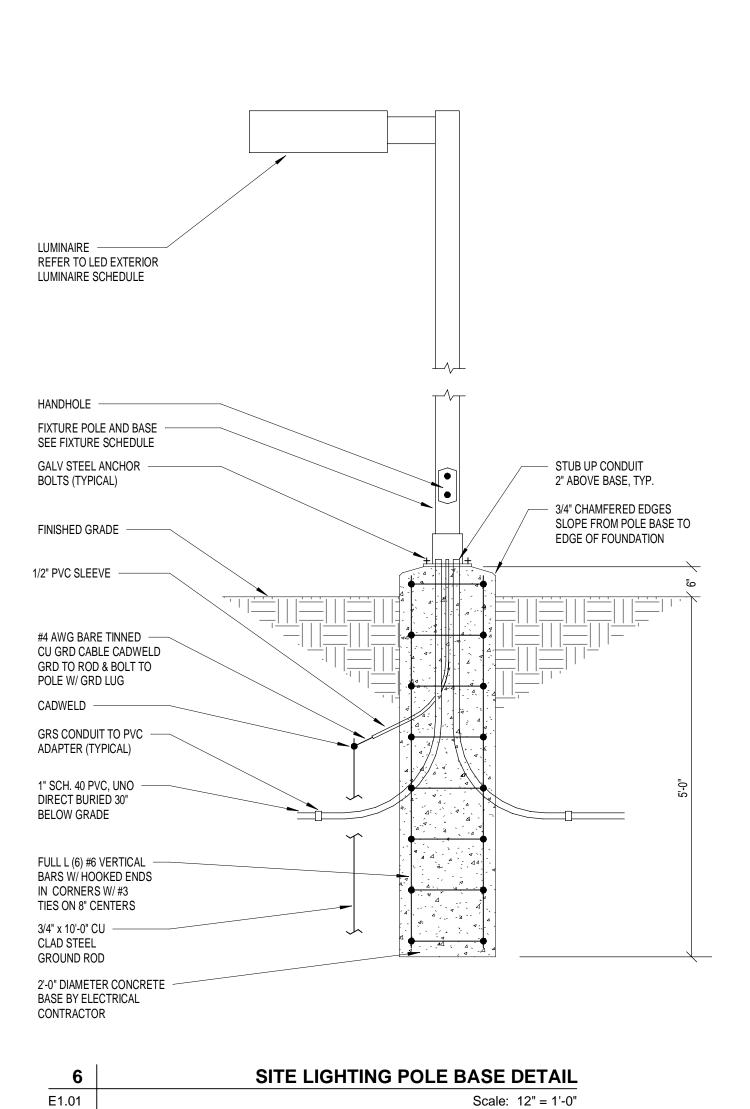


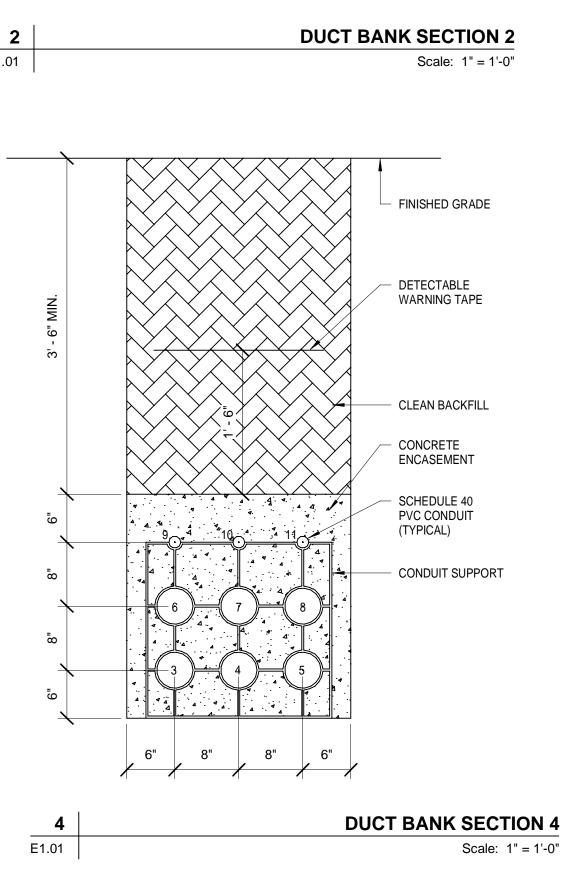


NOTES:

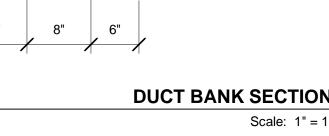
- 1. ROCK AND/OR ADVERSE SOIL CONDITIONS MAY BE PRESENT ON SITE. THE ELECTRICAL CONTRACTOR SHALL COORDINATE INSTALLATION REQUIREMENTS FOR BELOW GRADE WORK WITH GEOTECHNICAL REPORT, AND SHALL INCLUDE IN HIS BID ANY WORK RELATED TO GEOTECHNICAL CONSIDERATIONS AS IT MAY PERTAIN TO THE INSTALLATION OF ELECTRICAL DUCT BANKS.
- 2. IF 3'-0" MINIMUM COVER REQUIREMENTS CAN NOT BE MAINTAINED,
- CONTACT THE ENGINEER FOR DIRECTION.
- 3. PROVIDE REINFORCING BARS PER SPEC SECTION 260543. 4. FOR ALL ADDITIONAL INSTALLATION REQUIREMENTS REFER TO SPEC
- SECTION 260543.

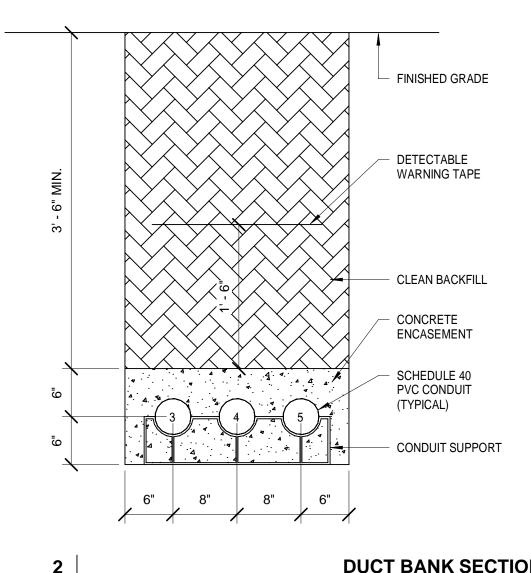
CONDUIT SCHEDULE								
TAG	SIZE	FROM	то					
1	4"	PROPOSED UTILITY POLE	UTILITY TRANSFORMER (SPARE W/ PULL WIRE, STUB-UP, AND CAP)					
2	4"	PROPOSED UTILITY POLE	UTILITY TRANSFORMER					
3	4"	UTILITY TRANSFORMER	ELEC RM 139 MDP (MAIN DISTRIBUTION PANEL)					
4	4"	UTILITY TRANSFORMER	ELEC RM 139 MDP (MAIN DISTRIBUTION PANEL)					
5	4"	UTILITY TRANSFORMER	ELEC RM 139 MDP (MAIN DISTRIBUTION PANEL)					
6	4"	GENERATOR	ELEC RM 139 MTS (MANUAL TRANSFER SWITCH)					
7	4"	GENERATOR	ELEC RM 139 MTS (MANUAL TRANSFER SWITCH)					
8	4"	GENERATOR	ELEC RM 139 MTS (MANUAL TRANSFER SWITCH)					
9	1"	GENERATOR CONTROL PANEL	GENERATOR ANNUCIATOR PANEL AND FACP					
10	1"	GENERATOR CONTROL PANEL	ELEC RM 139 ATS-LS, ATS-DP1, ATS-RTU STARTING CKTS					
11	1"	GEN JACKET WATER HTR & BATT CHARGER	ELEC RM 139 PANEL E1W					



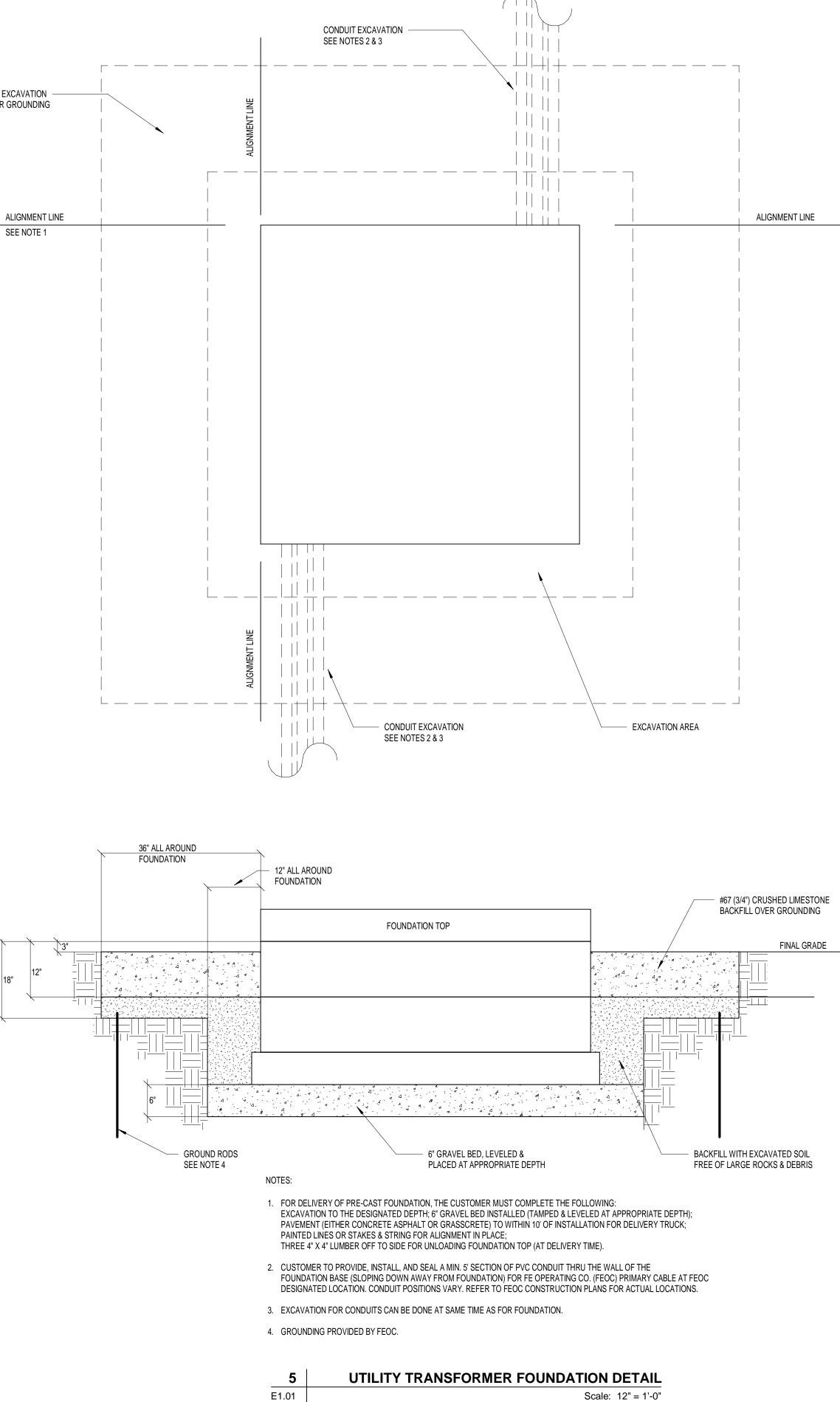


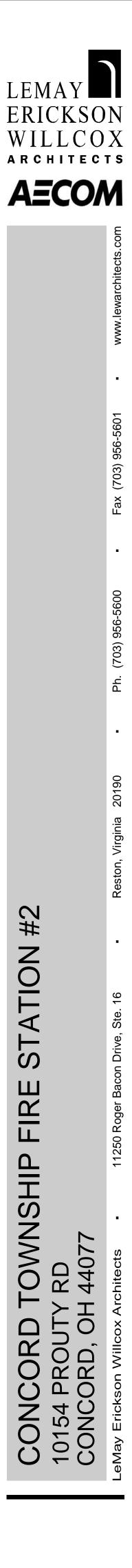


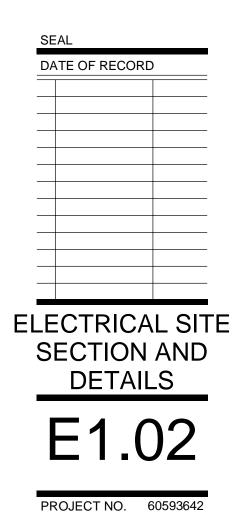


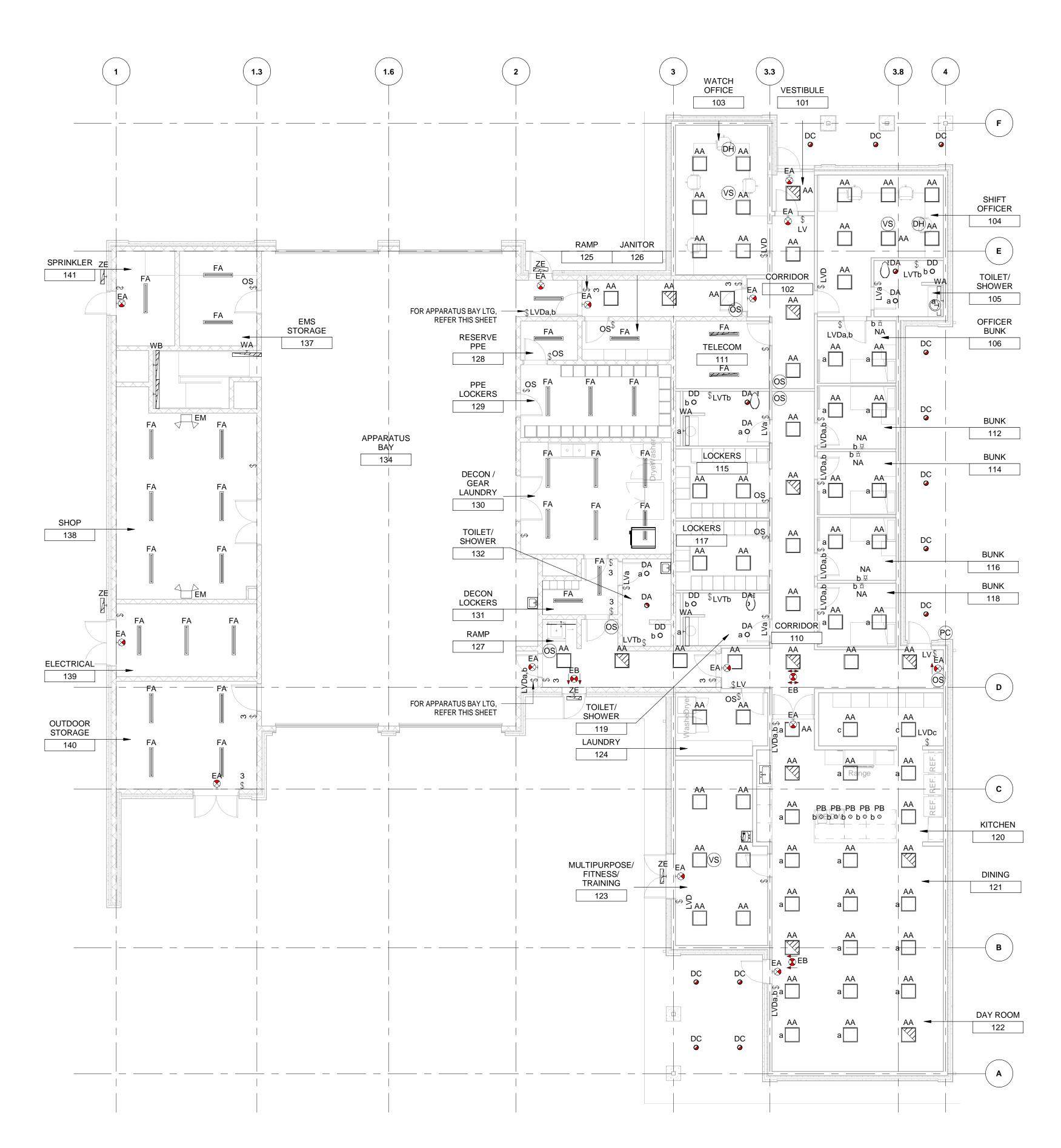


18" DEEP EXCAVATION AREA FOR GROUNDING



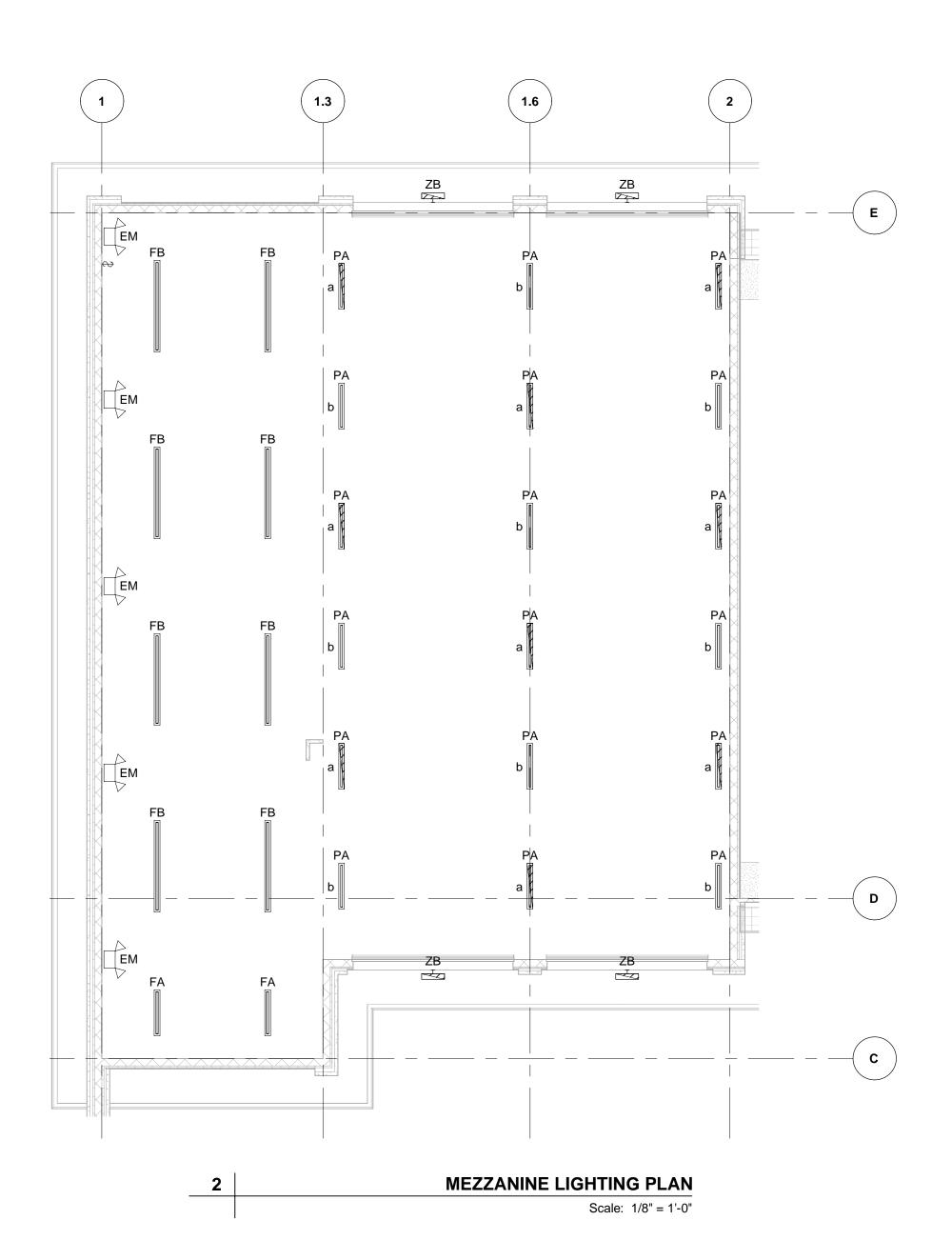


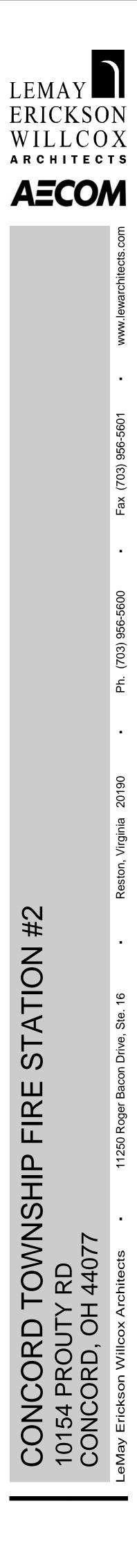


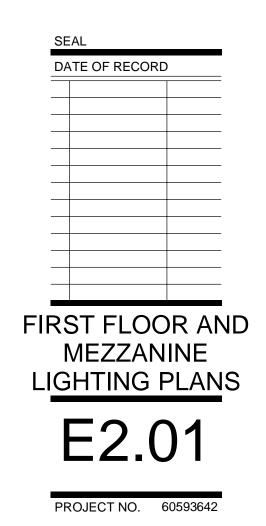


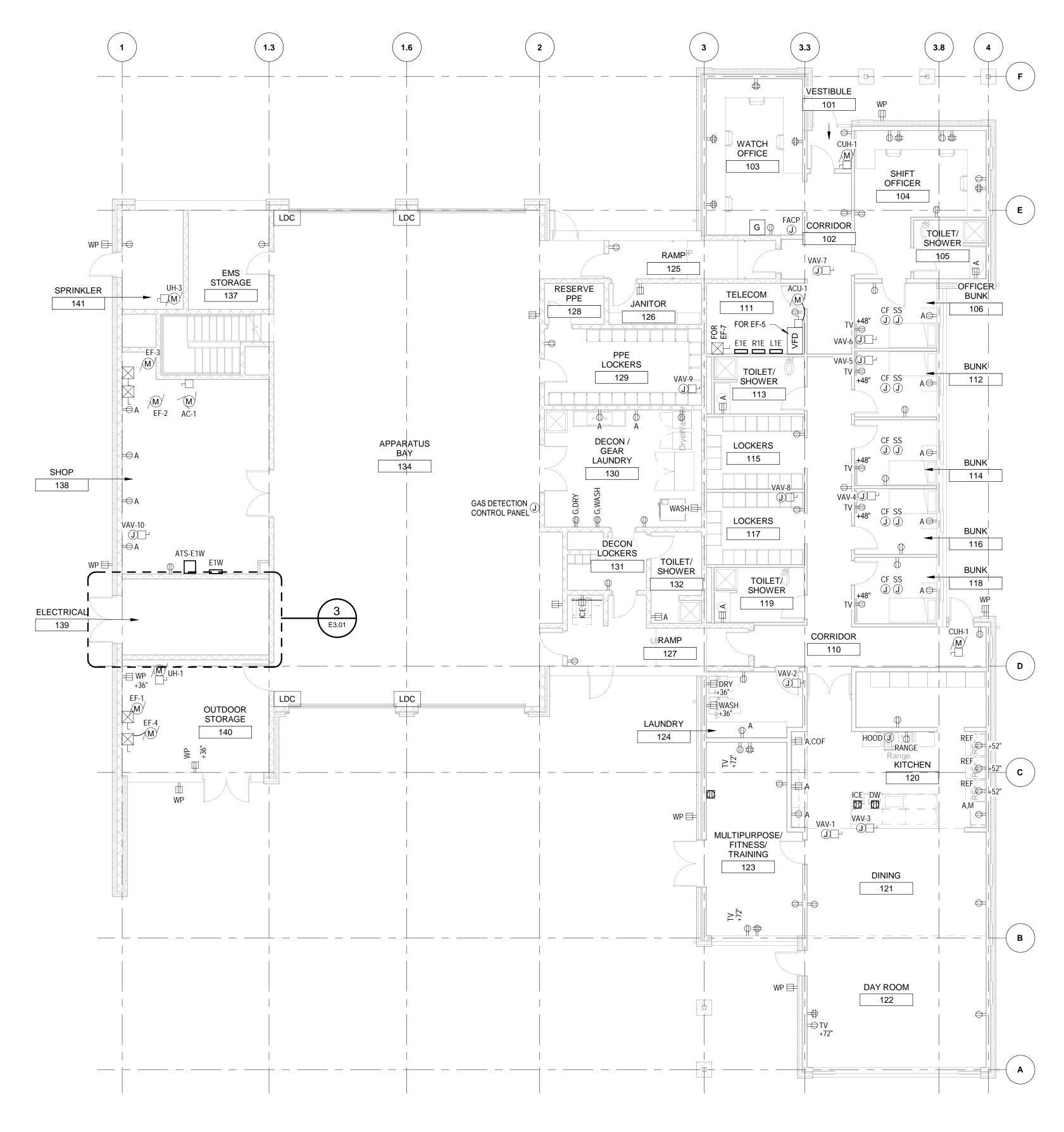
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FIRST FLOOR LIGHTING PLAN Scale: 1/8" = 1'-0"



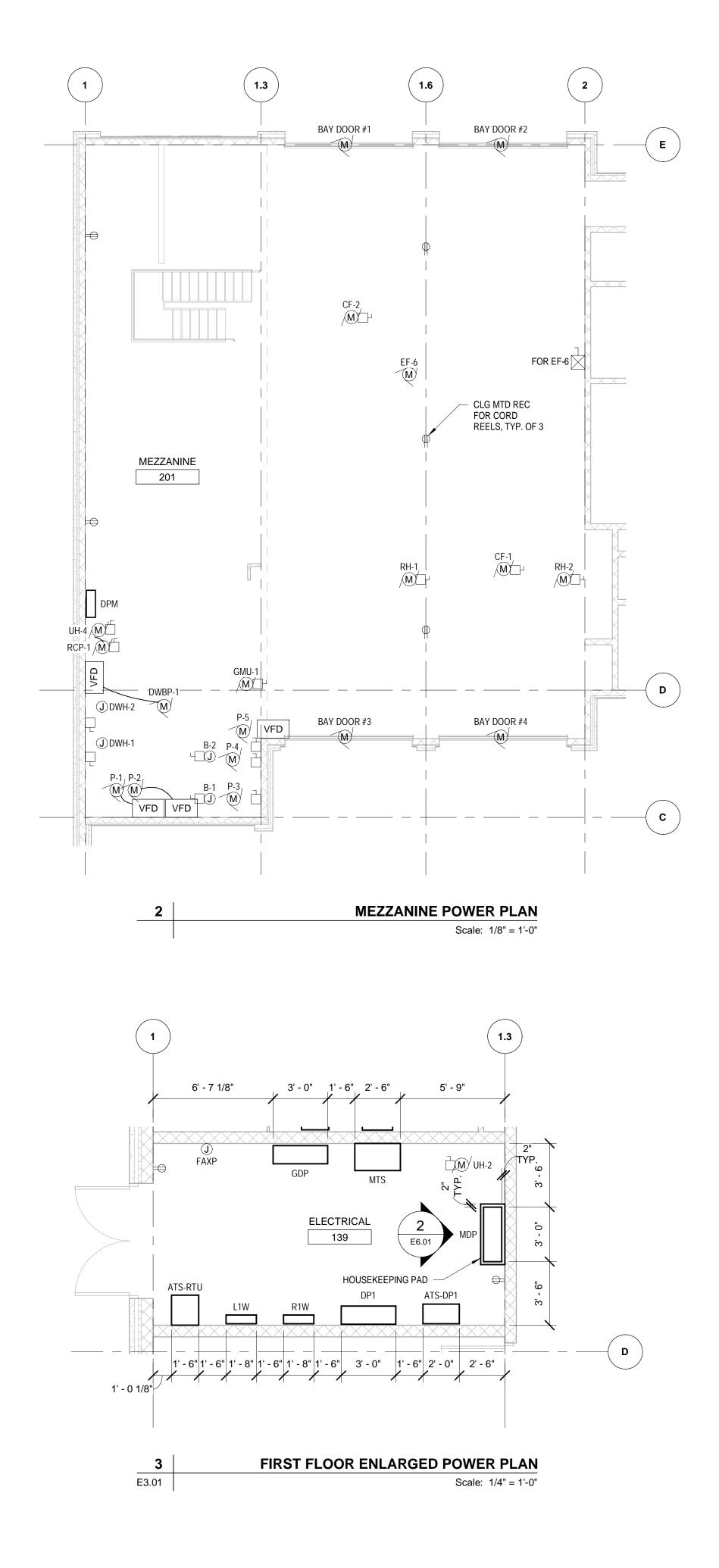




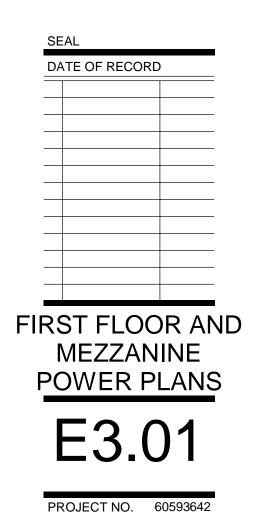


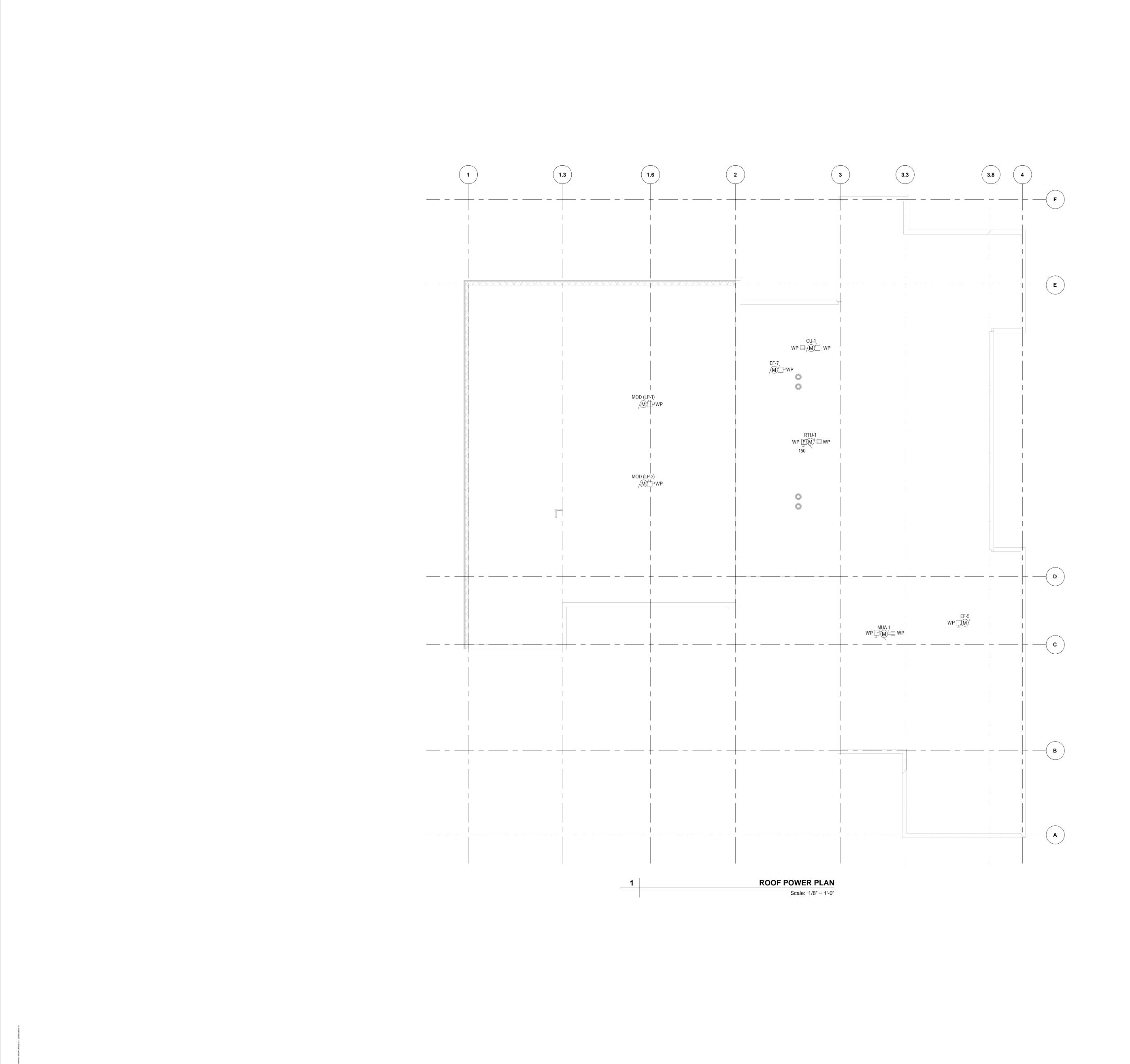
FIRST FLOOR POWER PLAN Scale: 1/8" = 1'-0"

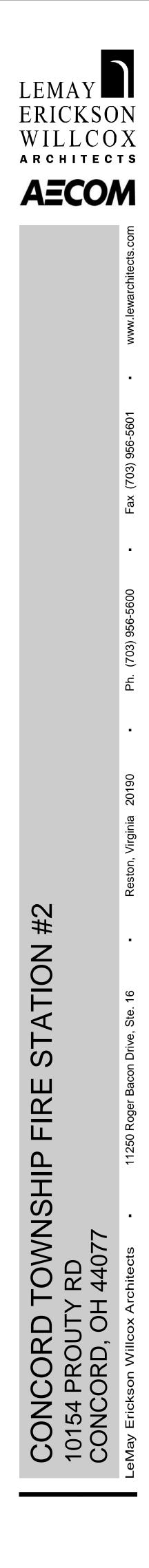
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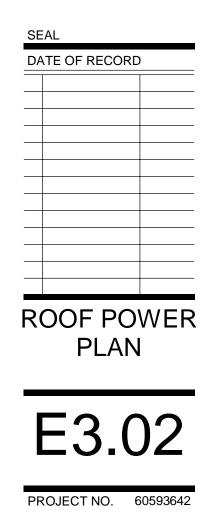


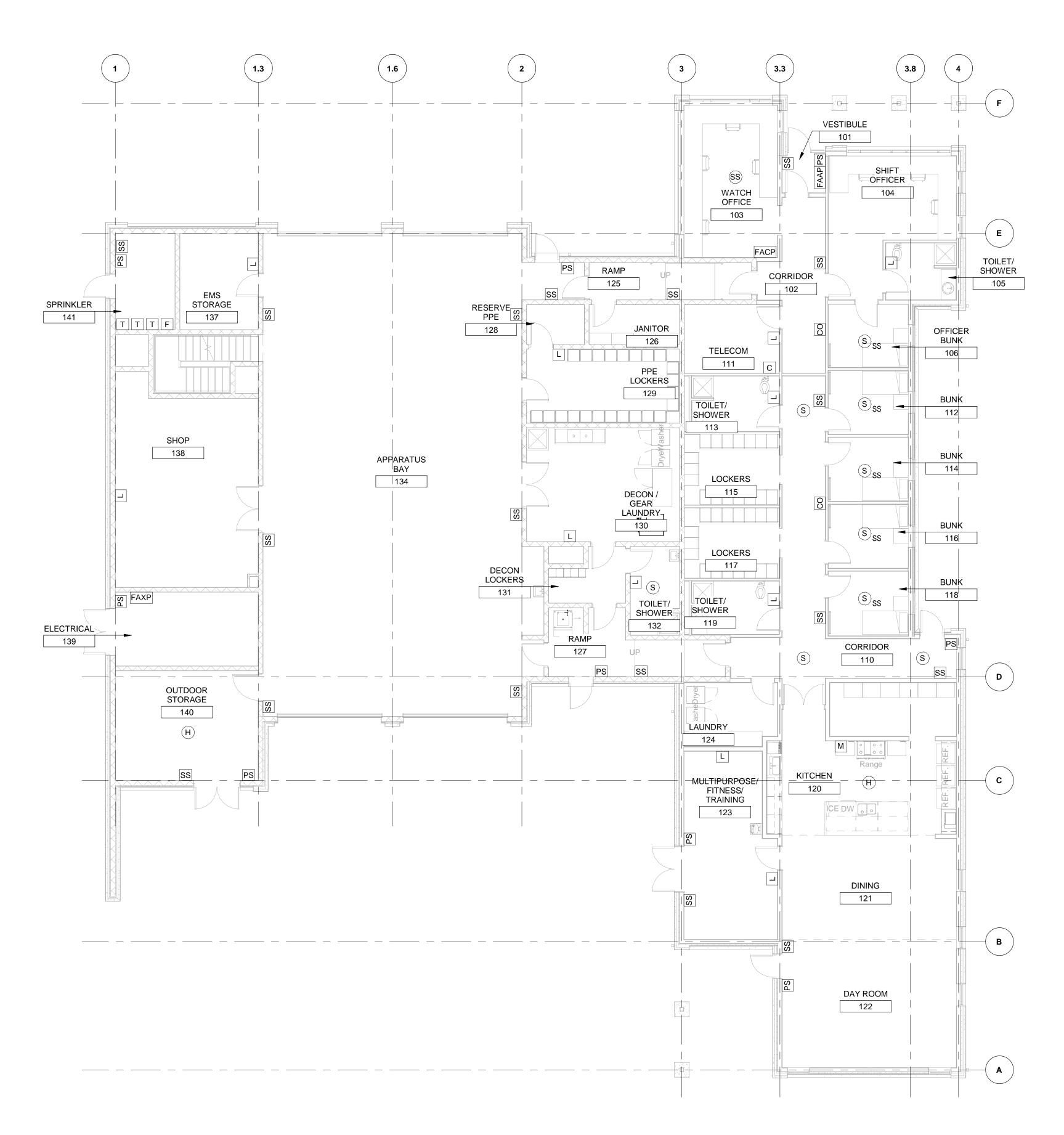






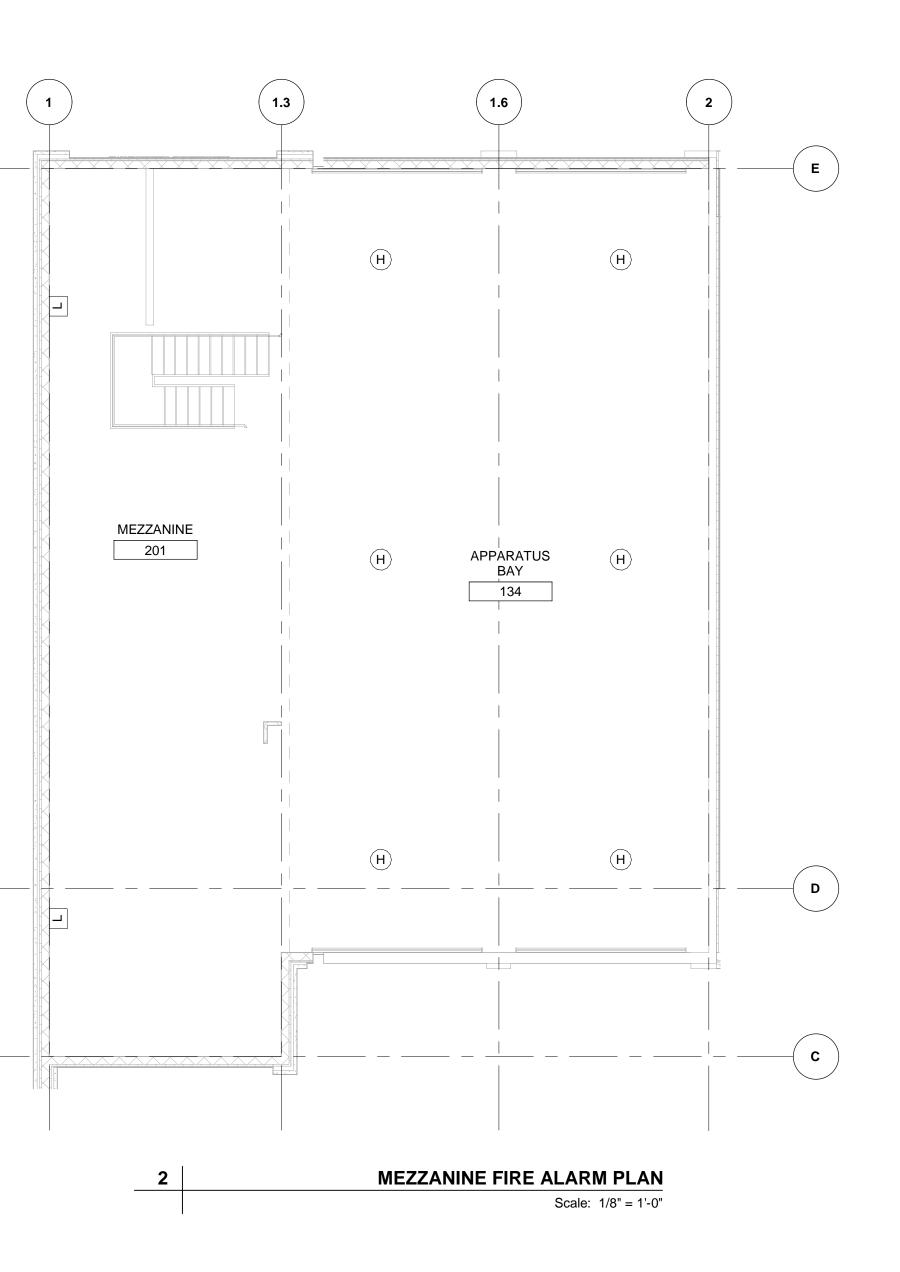


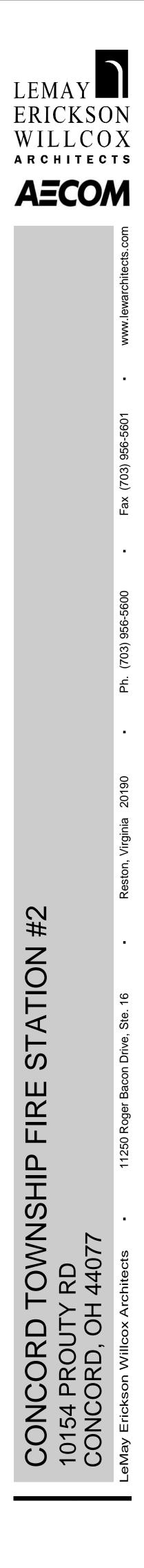




FIRST FLOOR FIRE ALARM PLAN Scale: 1/8" = 1'-0"

1 _____



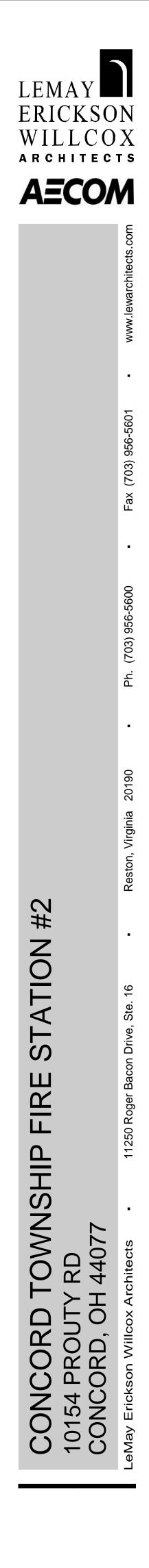


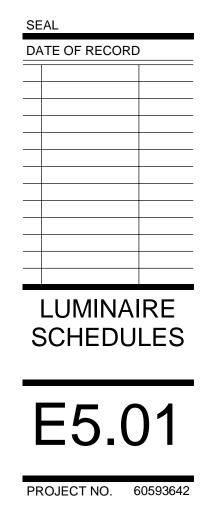


				LED INTERIOR LUMINAIRE SCHED	ULE		
TYPE	LAMPS	120V	208V	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
AA	16W/LED 2000 LUMENS 4000°K, 85 CRI	Yes	No	2' x 2' RECESSED LED ARCHITECURAL STYLE FIXT W/ EXTRUDED AL HOUSING; HIGH EFFICACY LUMEN OUTPUT; SMOOTH FROSTED ACRYLIC LENS; 0-10V DIMMING DRIVER; LM79/LM80 COMPLIANT; AND MAX OVERALL DEPTH OF 3.25"	EATON METALUX OR A/E APPROVED EQUAL	22CZ2	
DA	11W/LED 1000 LUMENS 3500°K, 80 CRI	Yes	No	RECESSED LED DOWNLIGHT W/ 6" ROUND APERTURE; CLEAR SPECULAR MEDIUM REFLECTOR; WHIT TRIM RING; COMPLETE W/ MOUNTING BRACKET; PRE-WIRED JUCTION BOX; AND 0-10V DIMMING DRIVER; MAIXIMUM DEPTH 7"	COOPER PORFOLIO LITHONIA PRESCOLITE	LD6B LDN6 LF6SL	
DC	11W/LED 1000 LUMENS 3500°K, 80 CRI	Yes	No	SAME AS TYPE "DA" EXCEPT W/ IP66 GASKET KIT	EATON PORTFOLIO LITHONIA PRESCOLITE	LD6B LDN6 LF6SL	
DD	9W/LED 600 LUMENS, 3500°K, 80 CRI	Yes	No	RECESSED LED NON-CONDUCTIVE SHOWER LIGHT W/ 6" ROUND APERTURE; WHITE DEAD FRONT RECESSED TRIP; UL WET LOCATION LISTED; COMPLETE W/ MTG BRACKET; PRE-WIRED JB; AND 0-10V DIMMING DRIVER; MAX DEPTH 8"	EATON HALO LITHONIA PRESCOLITE	H750ICAT LDN6 LF6SL	
FA	16.4W/LED 2000 LUMENS 3500°K, 85 CRI	Yes	No	4' LONG x 3" NOMINAL WIDE PENDANT MOUNTED LED STRIP LIGHT W/ DIE-FORMED STEEL HOUSING; CLEAR LENS; BACKED WHITE ENAMEL FINISH; 0-10V DIMMING DRIVER; WIREGUARD; AND CHAIN HANGER SET	COOPER METALUX LITHONIA HUBBELL COLUMBIA	SNLED ZL1N LCL	MOUNT 8'-0" AFF. TO BOF.
FB	16.4W/LED 2000 LUMENS 3500°K, 85 CRI	Yes	No	SAME AS TYPE "FA" EXCEPT 8' LONG	COOPER METALUX LITHONIA HUBBELL COLUMBIA	SNLED ZL1N LCL	MOUNT 8'-0" AFF. TO BOF.
NA	LED	Yes	No	5" x 5" WALL MOUNTED LED NIGHTLIGHT, AMBER COLOR LED'S, WHITE ANTI-MICROBIAL FACEPLATE; AND WHITE FINISH	KIRLIN	LNS-05086	MOUNT 2'-0" AFF. TO BOF.
PA	93W/LED 12000 LUMENS 3500°K, 80CRI	Yes	No	4' TAMPER RESISTANT LED VAPOPPROOF FIXTURE W/ FIBERGLASS HOUSING AND HIGH IMPACT DIFFUSER; FROSTED ACRYLIC HIGH IMPACT LENS; STAINLESS STEEL LATCHES AND MOUNTING BRACKETS; NEMA 4X, IP65, AND IP67 RATED; RATED UP TO 1500PSI HOUSEDOWN; AND 0-10V DIMMING DRIVER	COOPER FAIL-SAFE	VRVT4	MOUNT 14'-0" AFF. TO BOF. (QTY OF 12) FOR ROWS AT & EAST OF COL 1.6. MOUNT 16'-6" TO BOF. FOR ROW NEAR COL 1.3 (QTY OF 6).
PB	8W/LED 667 LUMENS 3500°K, 80 CRI	Yes	No	6.34"DIA DECORATIVE PENDANT; COORDINATE SHADE, TRIM AND MOUNTING OPTIONS W/ ARCHITECT PRIOR TO ORDERING	COOPER SHAPER	1400	MOUNT 5'-6" AFF. TO BOF.
WA	16.4W/LED 2000 LUMENS 500 LUMENS/FT 3500°K, 80 CRI	Yes	No	4' WALL MOUNTED LED FIXT W/ LOW PROFILE HOUSING AND INTEGRAL GEAR TRAY CONSTRUCTED FROM DIE-FORMED 20 GA CRS FORMING A 4" x 1.5" PROFILE; FROSTED LENS; UL LISTED FOR DAMP LOCATIONS; WHITE FINISH; AND 0-10V DIMMING DRIVER	COOPER CORELITE PEERLESS HUBBELL LITECONTROL	JAYLUM (JW) BRUNO SAE103	MOUNT 8'-0" AFF. TO BOF.
WB	32.8W/LED 4000 LUMENS 500 LUMENS/FT 3500°K, 80 CRI	Yes	No	SAME AS TYPE "WA" EXCEPT 8' LONG	COOPER CORELITE PEERLESS HUBBELL LITECONTROL	JAYLUM (JW) BRUNO SAE103	MOUNT 8'-0" AFF. TO BOF.

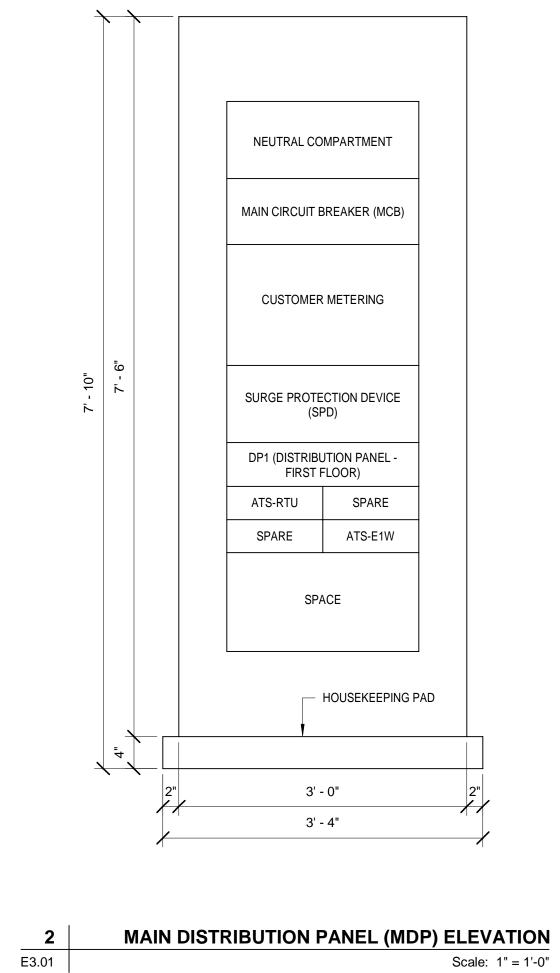
EMERGENCY AND EXIT LUMINAIRE SCHEDULE							
TYPE	LAMPS	120V	208V	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
EA	1W/LED EVEN ILLUMINATION	Yes	No	SINGLE FACE EXIT W/ THERMOPLASTIC HOUSING, AC ONLY; LED LAMP MODULES; RED UNIFORMLY ILLUMINATED FACE; WHITE HOUSING FINISH; UL 924 LISTED; UNVERSAL ARROWS; AND REFER TO PLANS FOR WALL AND PENDANT MOUNTED	ISOLITE LITHONIA HUBBELL DUAL-LITE	RL LQM EVE	MOUNT 8'-0" AFF. TO BOF. WIRE AHEAD OF LOCAL SWITCHING, CHEVRONS AS INDICATED ON PLANS. WIRE AHEAD OF LOCAL SWITCHING
EB	1W/LED EVEN ILLUMINATION	Yes	No	SAME AS TYPE "XA" EXCEPT DOUBLE FACE	ISOLITE LITHONIA HUBBELL DUAL-LITE	RL LQM EVE	MOUNT 8'-0" AFF. TO BOF. WIRE AHEAD OF LOCAL SWITCHING, CHEVRONS AS INDICATED ON PLANS. WIRE AHEAD OF LOCAL SWITCHING
EM	LED	Yes	No	EM LIGHTING UNIT WITH TWO ADJUSTABLE HEADS, UNIVERSAL MTG, 3.6V SEALED MAINTENANCE FREE NICAD BAT, UV STABLE WHITE THERMOPLATIC HOUSING, SELF-DIAGNOSTICS AND DAMP LOCATION LISTED.	ISOLITE LITHONIA HUBBELL COMPASS	IMR-LED ELM2 LED HO CU2RC	MOUNT 8'-0" AFF. TO BOF. WIRE AHEAD OF LOCAL SWITCHING

				LED EXTERIOR LUMINAIRE SCHED	ULE		
TYPE	LAMPS	120V	208V	DESCRIPTION	MANUFACTURER	MODEL	COMMENTS
ZA	24W/LED 2300 LUMENS 5000°K, 80 CRI	Yes	No	FLAGPOLE LIGHT W/ ALUMINUM HOUSING; SUITABLE FOR 9" POLE DIAMETER; WHITE POWDERCOAT PAINTED FINISH; AND REMOTE 24VDC, CLASS II LED DRIVER BY INVENTRONICS OR A/E APPROVED EQUAL	POLELED	O2	
ZB	55.1W/LED 5400 LUMENS 4000°K, 70 CRI B1-U0-G1 MAX	Yes	No	16"x8"x8" SMALL CYLINDER SHAPED WALL MOUNTED LED FIXTURE W/ DIE-CAST AL HOUSING; TYPE III W/ BACKLIGHT CONTROL; BRONZE FINISH; AND 0-10V DIMMING DRIVER	COOPER McGRAW-EDISON LITHONIA HUBBELL COLUMBIA	ISC WSR TRP2	MOUNT 16'-0" AFF. TO BOF.
ZE	25.5W/LED 2600 LUMENS 4000°K, 70 CRI B1-U0-G1 MAX	Yes	No	16"x8"x8" SMALL CYLINDER SHAPED WALL MOUNTED LED FIXTURE W/ DIE-CAST AL HOUSING; TYPE IV W/ BACKLIGHT CONTROL; BRONZE FINISH; AND 0-10V DIMMING DRIVER	EATON McGRAW-EDISON LITHONIA HUBBELL COLUMBIA	ISC WSR TRP2	MOUNT 7'-8" AFF. TO BOF.
ZL1	96W/LED 11363 LUMENS 4000°K, 70CRI B2-U0-G2 MAX	No	Yes	ARCHITECTURAL LED AREA/SITE FIXTURE W/ HEAVY WALL DIE-CAST AL HOUSING; TYPE II W/ SPILL CONTROL (CUTOFF) OPTICS; SINGLE 6" ARM W/ MTG ACCESSORIES; WEATHER- RESISTANT GFCI RECPT WITHIN POLE'S HANDHOLE LOCATED 18" ABOVE BASE; 10kV SURGE MODULE; AND DRIVE CURRENT FACTORY SET TO 600mA MAX	EATON McGRAW-EDISON OR A/E APPROVED EQUAL	GLEON	20'HSTRAIGHT ROUND AL POLE, REFER TO SPEC SECTON 265613 FOR ADD'L INFORMATION, BLACK FINISH-POLE & FIXT
ZL2	96W/LED 11363 LUMENS 4000°K, 70CRI B2-U0-G2 MAX	No	Yes	SAME AS TYPE "XL1" EXCEPT W/ TYPE III W/ TWO (2) LUMINAIRES ON DUAL 6" ARMS, 180° APART	EATON McGRAW-EDISON OR A/E APPROVED EQUAL	GLEON	STRAIGHT ROUND AL POLE, REFER TO SPEC SECTON 265613 FOR ADD'L INFORMATION, BLACK FINISH-POLE & FIXT



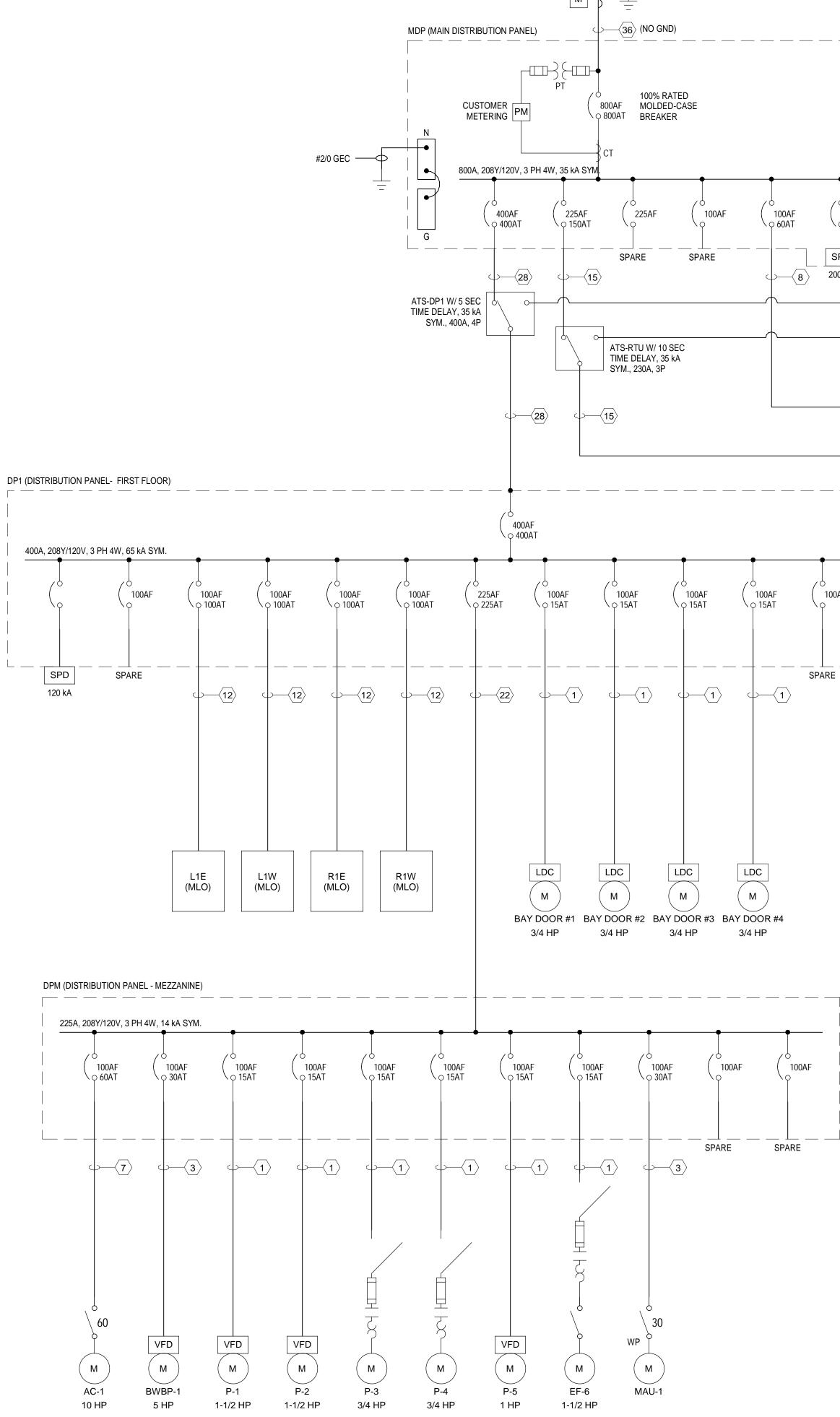


ELECTRICAL FEEDER SCHEDULE								
Key Note #	Max Amps	# of Parallel Runs	# of Phase Conductors Per Conduit	Phase Conductor Size	Ground Size	Conduit Size unless noted otherwise		
4	20	4	2	10	10	2/4"		
1	20	1	3	12 12	12 12	3/4" 3/4"		
2	20	1	4					
3	30	1	3	10	10	3/4"		
4	30	1	4	10	10	3/4"		
5	40	1	3	8	10	3/4"		
6	40	1	4	8	10	3/4"		
7	50 or 60	1	3	6	10	3/4"		
8	50 or 60	1	4	6	10	1"		
9	70	1	3	4	8	1-1/4"		
10	70	1	4	4	8	1-1/4"		
11	100	1	3	2	8	1-1/4"		
12	100	1	4	2	8	1-1/4"		
13	125	1	3	1	6	1-1/2"		
14	125	1	4	1	6	1-1/2"		
15	150	1	3	1/0	6	1-1/2"		
16	150	1	4	1/0	6	2"		
17	175	1	3	2/0	6	2"		
18	175	1	4	2/0	6	2"		
19	200	1	3	3/0	6	2"		
20	200	1	4	3/0	6	2"		
21	225	1	3	4/0	4	2"		
22	225	1	4	4/0	4	2-1/2"		
23	250	1	3	250kcmil	4	2-1/2"		
24	250	1	4	250kcmil	4	3"		
25	300	1	3	350kcmil	4	3"		
26	300	1	4	350kcmil	4	4"		
27	400	1	3	500kcmil	3	4"		
28	400	1	4	500kcmil	3	4"		
29	500	2	3	250kcmil	2	2-1/2"		
30	500	2	4	250kcmil	2	3"		
31	600	2	3	350kcmil	1	3"		
32	600	2	4	350kcmil	1	4"		
32 33	700	2	3	500kcmil	1/0	4"		
33 34	700	2	4	500kcmil	1/0	4"		
34 35	800	3	3			4 3"		
				300kcmil	1/0	3" 4"		
36	800	3	4	300kcmil	1/0			
37	1000	3	3	500kcmil	2/0	4"		
38	1000	3	4	500kcmil	2/0	4"		
39	1200	4	3	350kcmil	3/0	3"		
40	1200	4	4	350kcmil	3/0	4"		
41	1600	5	3	500kcmil	4/0	4"		
42	1600	5	4	500kcmil	4/0	4"		
43	2000	6	3	500kcmil	250kcmil	4"		
44	2000	6	4	500kcmil	250kcmil	4"		

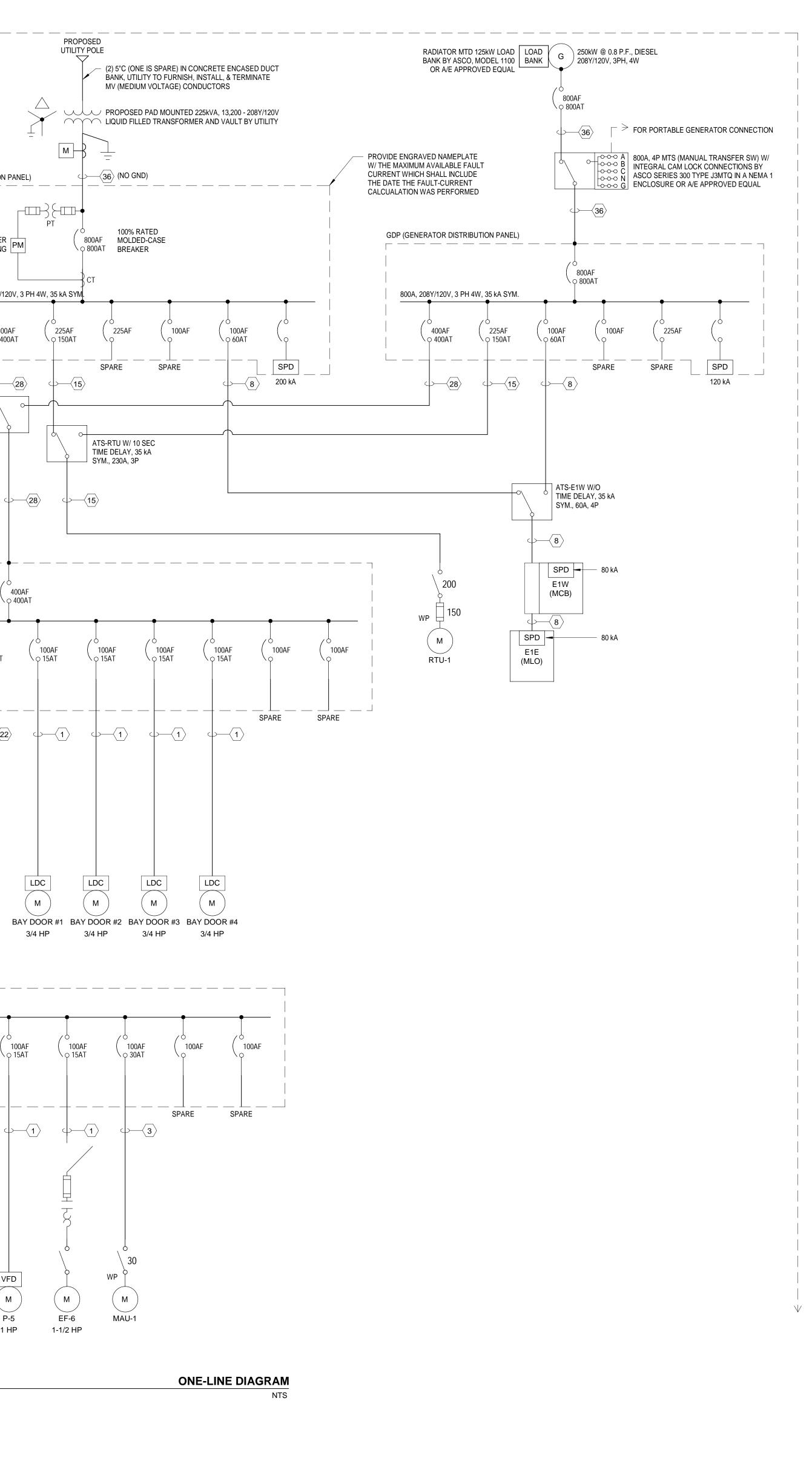


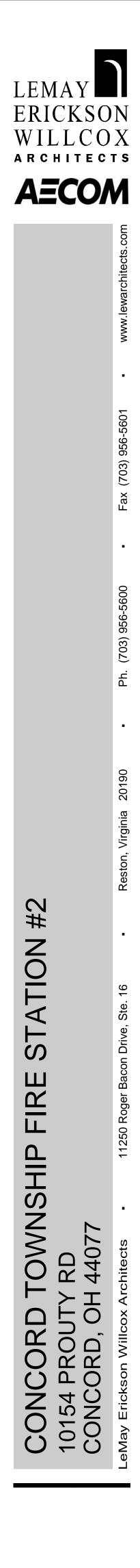
EXTENT OF OCP (OVERCURRENT PROTECTION) DEVICE SHORT CIRCUIT,

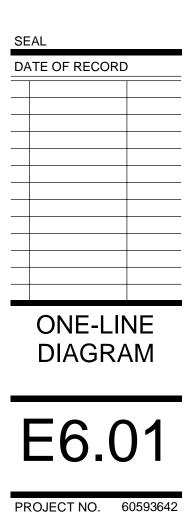
COORDINATIÓN, AND ARC FLASH STUDIES

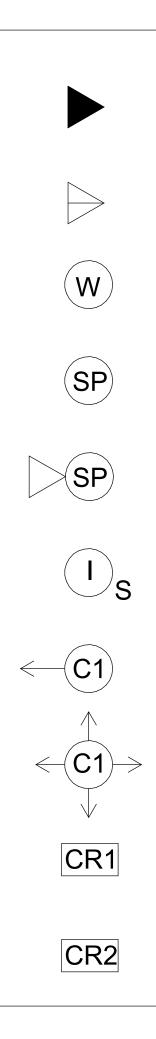


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TECHNOLOGY SYMBOLS LEGEND

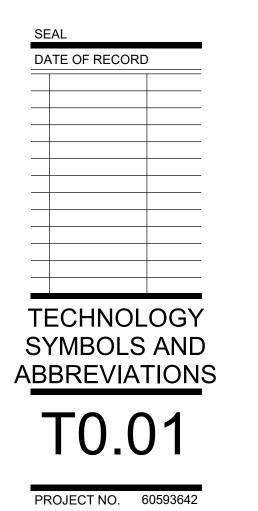
DATA OUTLET - WALL OR FLOOR	TWO CAT 6 CABLES
DATA/PHONE OUTLET - WALL MOUNTED	TWO CAT 6 CABLES
WIRELESS ACCESS POINT - CEILING MOUNTED	TWO CAT 6A CABLES WITH 20' EXTRA CABLE AT LOCATION
PUBLIC ADDRESS SPEAKER - CEILING MOUNTED	18 AWG TWISTED, JACKETED PAIR
PUBLIC ADDRESS HORN TYPE SPEAKER - WALL MOUNTED	18 AWG TWISTED, JACKETED PAIR
INTERCOM STATION - SECURITY TYPE - WALL MOUNTED	CAT 6 CABLE
SECURITY SYSTEM VIDEO DOME CAMERA - CEILING MOUNTED	CAT 6 CABLE
SECURITY SYSTEM MULTI-HEAD DOME CAMERA - CEILING MOUNTED	CAT 6 CABLE
SECURITY SYSTEM CARD ACCESS READER	CABLE BY SECURITY CONTRACTOR
SECURITY SYSTEM CARD ACCESS READER WITH KEYPAD	CABLE BY SECURITY CONTRACTOR

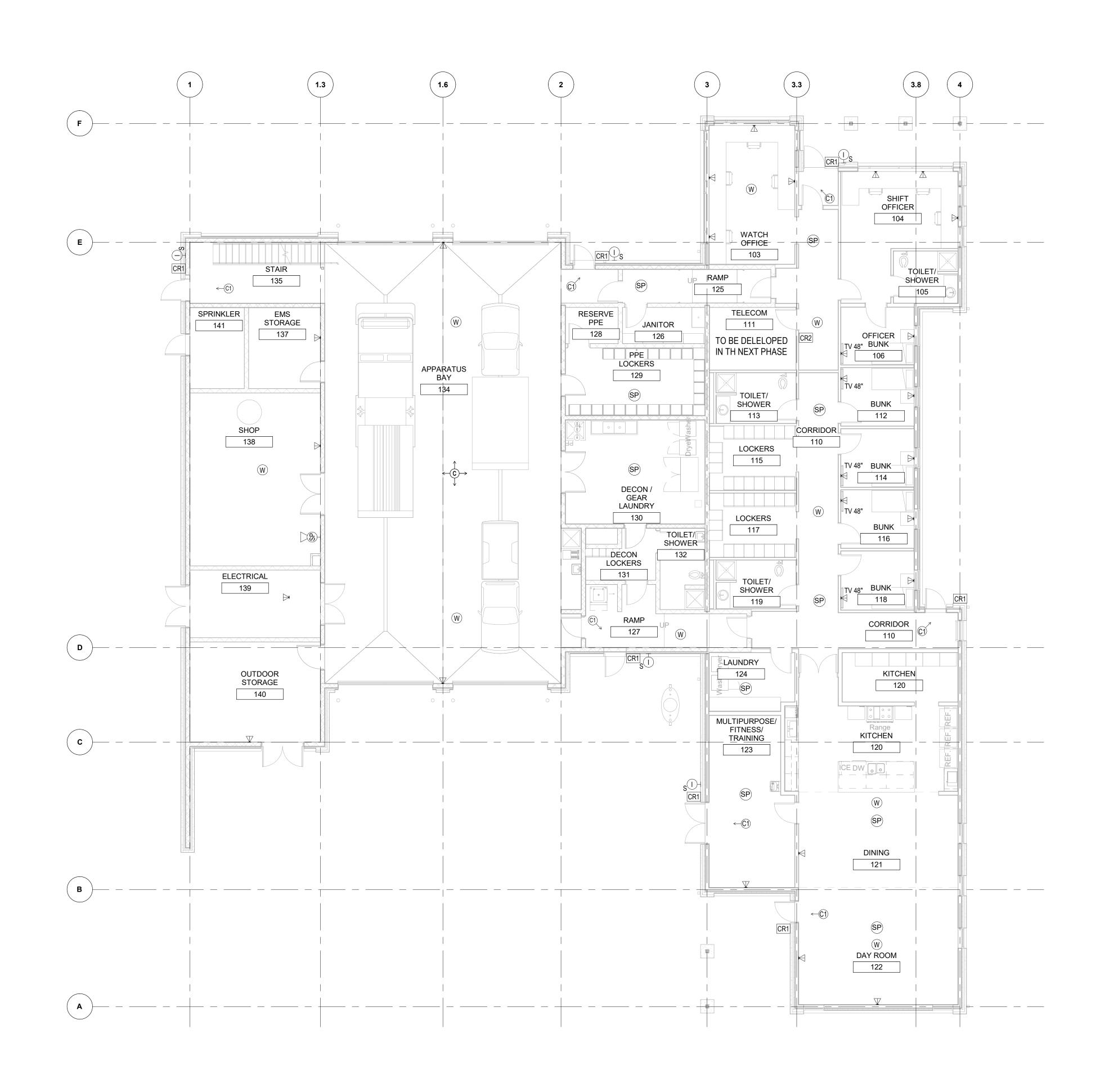
 1
 AECOM TECHNOLOGY/SECURITY PLAN SYMBOLS

 Scale:
 12" = 1'-0"



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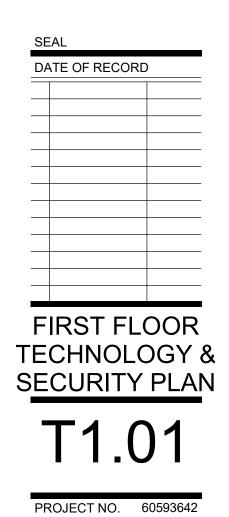


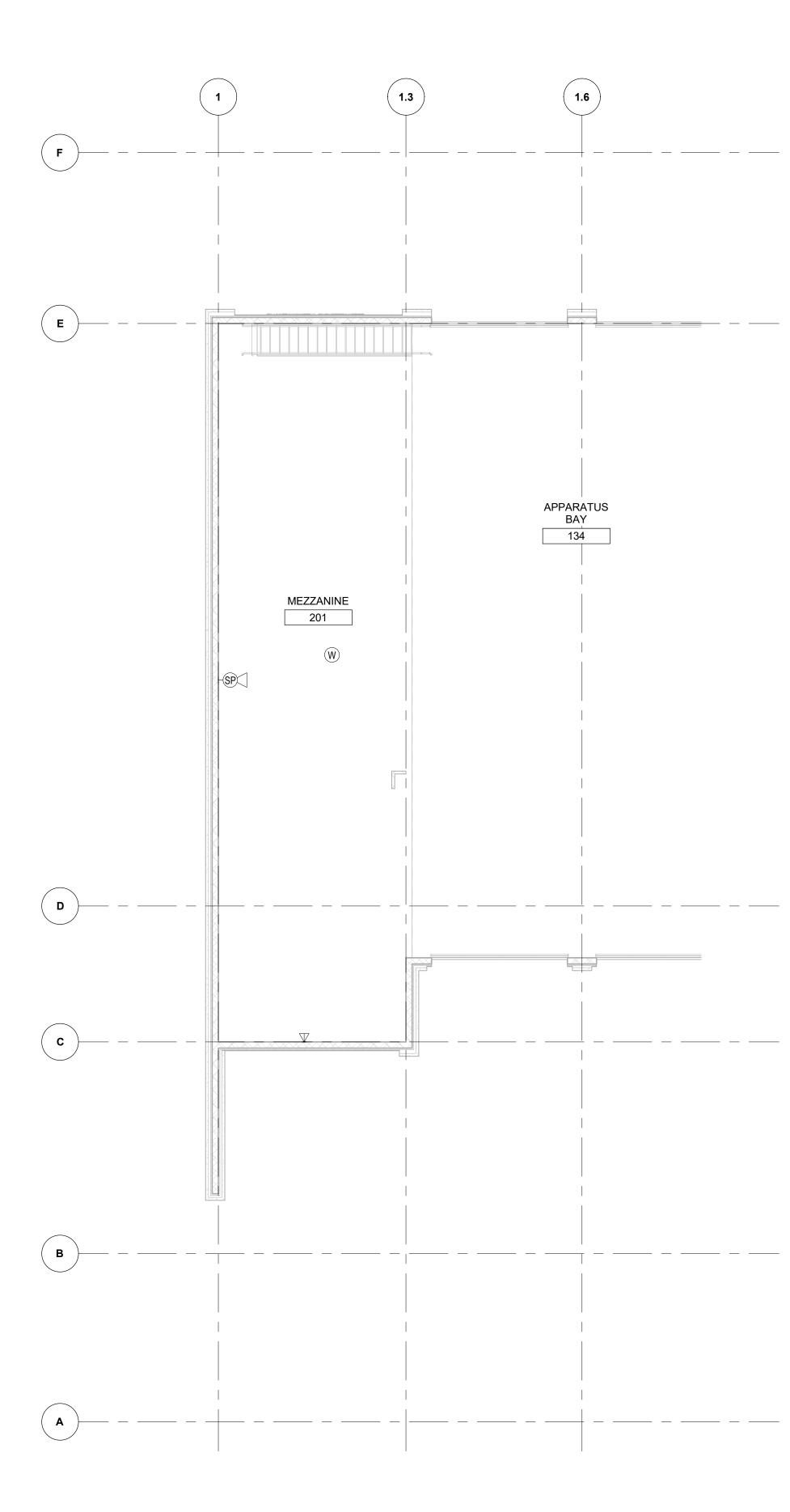
1 FIRST FLOOR TECHNOLOGY & SECURITY PLAN

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



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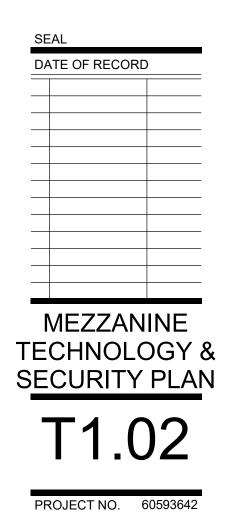


_1 **MEZZANINE TECHNOLOGY & SECURITY PLAN** Scale: 1/8" = 1'-0"

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FIRE SUPPRESSION GENERAL NOTES

1. INSTALLATION OF AUTOMATIC WET PIPE SPRINKLER SYSTEM COMPLY WITH OHIO BUILDING CODE (2017), OHIO FIRE CODE (2017). 2. AREAS SHOWN TO BE PROTECTED BY THE AUTOMATIC SPRINKLER SYSTEMS SHALL BE FULLY SPRINKLED THROUGHOUT IN ACCORDANCE WITH NFPA 13, INCLUDING UNDER ALL OBSTRUCTIONS GREATER THAN 4 FEET WIDE INCLUDING, BUT NOT LIMITED TO, DUCTWORK, EQUIPMENT PLATFORMS, ABOVE ROLL-BACK DOORS, AND EXTERIOR OVERHANGS.

3. SPRINKLER SYSTEM DESIGN HAZARD CRITERIA INFORMATION IS SHOWN ON INDIVIDUAL DRAWINGS FOR EACH INDIVIDUAL AREA. 4. CONTRACTOR IS RESPONSIBLE FOR ALL PERMITS REQUIRED FOR THE WORK. CONTRACTOR SHALL SUBMIT DRAWINGS TO LOCAL FIRE AND BUILDING DEPARTMENT, THE ARCHITECT AND OWNER FOR REVIEW AND APPROVAL PRIOR TO INSTALLATION. 5. FIRE SUPPRESSION CONTRACTOR SHALL UTILIZE A FIRE WATER SUPPLY AS FOLLOWS:

A. 50 PSIG STATIC PRESSURE AND 20 PSIG AT 1380 GPM FLOWING IN THE UNDERGROUND MAIN LOCATED UNDER PROUTY ROAD. FIRE HYDRANT FLOW TEST WAS CONDUCTED ON JUNE 10, 2019 BY CONCORD FIRE DEPARTMENT. B. AUTOMATIC SPRINKLER SYSTEMS SHALL BE HYDRAULICALLY CALCULATED WITH A MINIMUM SAFETY MARGIN OF 10 PERCENT.

C. FIRE SUPPRESSION CONTRACTOR SHALL PERFORM A NEW FIRE HYDRANT FLOW TEST TO VERIFY WATER SUPPLY.

6. NO SUPPRESSION SYSTEM MAIN DISTRIBUTION PIPING SHALL BE ROUTED THROUGH OR ABOVE ELECTRICAL ROOMS. 7. DO NOT INSTALL PIPING IN DEDICATED WORKING SPACE AS DEFINED BY NFPA 70 IN ELECTRICAL ROOMS. DO NOT INSTALL PIPING DIRECTLY OVER ELECTRICAL EQUIPMENT.

8. ALL SPRINKLER SYSTEM EQUIPMENT, INCLUDING BUT NOT LIMITED TO SPRINKLER PIPING, HEADS, NOZZLES, VALVES, FITTINGS, ESCUTCHEONS, HANGERS, AND ASSEMBLIES SHALL BE UL LISTED FOR THEIR INTENDED USE.

9. ALL SPRINKLERS AND HANGERS SHALL BE SPACED PER NFPA 13 AND COORDINATED WITH ALL OTHER ARCHITECTURAL, STRUCTURAL, ELECTRICAL, AND MECHANICAL EQUIPMENT. PROVIDE ADDITIONAL HANGERS AS REQUIRED. 10. MINIMUM PIPE SCHEDULE SHALL BE BLACK STEEL SCHEDULE 40 FOR PIPE 2 INCHES OR SMALLER AND SCHEDULE 10 FOR PIPE 2.5 INCHES OR LARGER FOR WET PIPE SPRINKLER SYSTEM.

11. DRAWINGS ARE SCHEMATIC IN NATURE AND ARE INTENDED TO SPECIFY BASIC DESIGN PARAMETERS. DRAWINGS SHOW APPROXIMATE PIPE SIZE. SPRINKLER CONTRACTOR IS RESPONSIBLE FOR HYDRAULICALLY CALCULATING THE SPRINKLER SYSTEM BASED ON THE AREA DENSITY METHOD PER NFPA 13. PIPE SHOWN ON DRAWING IS MINIMUM SIZE.

12. CONTRACTOR SHALL COORDINATE AND PROVIDE ALL SLEEVES REQUIRED FOR ALL AND SLAB PENETRATIONS. FIRESTOP PENETRATIONS THROUGH ALL FIRE RESISTANCE RATED ASSEMBLIES WITH APPROVED MATERIALS IN ACCORDANCE WITH ASTM E-184. 13. ALL PIPING SHALL BE HYDRAULICALLY TESTED IN ACCORDANCE WITH NFPA 13 AT NO LESS THAN 200 PSI OR 50 PSI IN EXCESS OF SYSTEM WORKING PRESSURE, WHICHEVER IS HIGHER, FOR 2 HOURS.

14. ALL VALVES SHALL BE SUPERVISED BY THE FIRE ALARM SYSTEM. COORDINATE WITH FIRE ALARM CONTRACTOR. 15. SPARE SPRINKLER CABINET WITH SPARE WRENCHES AND SPRINKLER HEADS SHALL BE PROVIDED IN ACCORDANCE WITH NFPA 13. LOCATE CABINET IN SPRINKLER ROOM 141 ADJACENT TO THE FIRE SPRINKLER RISER.

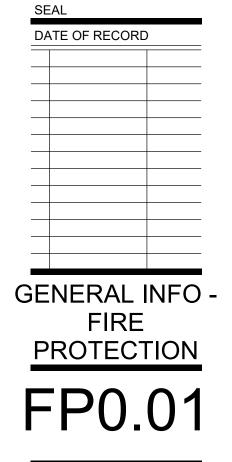
16. PENDENT SPRINKLER SHALL BE LOCATED IN THE CENTER OF THE CEILING TILE WHERE DROP CEILING IS INSTALLED.

17. UL LISTED HEAD GUARDS SHALL BE PROVIDED ON ALL EXPOSED SPRINKLERS INSTALLED THAT ARE SUBJECT TO MECHANICAL DAMAGE INCLUDING SPRINKLERS INSTALLED UNDER STAIR LANDINGS, FIRE POLE ENCLOSURES, AND INSIDE MECHANICAL, STORAGE, AND ELECTRICAL ROOMS. 18. CONTRACTOR SHALL PROVIDE INSPECTORS TEST CONNECTION LOCATED ON THE MOST REMOTE BRANCHLINE DRAINING TO THE EXTERIOR,

WITH A RESTRICTED ORIFICE EQUAL TO A SINGLE SPRINKLER ORIFICE. 19. CONTRACTOR SHALL PROVIDE AUXILIARY DRAINS FOR TRAPPED WATER SECTIONS OF PIPING CONTAINING IN EXCESS OF 5 GALLONS. 20.SPRINKLER PIPING MAINS AND BRANCHLINES SHALL BE SEISMICALLY BRACED PER NFPA 13 AND ASCE/SEI7 FOR SEISMIC DESIGN CATEGORY C. CONTRACTOR SHALL PROVIDE SEISMIC SEPARATION ASSEMBLIES FOR ALL SPRINKLER PIPE CROSSING OVER BUILDING SEISMIC JOINTS.



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1	LIGHT HAZARD: UNLE AUTOMATIC WET PIPE DESIGNED IN ACCORD DENSITY OF <u>0.1 GPM/S</u> DEMANDING <u>1500 SQ F</u> <u>WITH 100 GPM HOSE D</u>
2	ORDINARY HAZARD GI INSTALL AUTOMATIC V HYDRAULICALLY DESI PROVIDE A DENSITY C <u>HYDRAULICALLY MOS</u> <u>A MAXIMUM 130 SQ FT</u>

3



FIRE SUPRESSION DESIGN CRITERIA

LESS OTHERWISE NOTED, INSTALL PE SPRINKLER SYSTEM HYDRAULICALLY RDANE WITH NFPA 13. PROVIDE A <u>M/SQ FT</u> OVER THE HYDRAULICALLY MOST <u>Q FT SPACED AT A MAXIMUM 225 SQ FT.</u> <u>E DEMAND.</u>

GROUP I: UNLESS OTHERWISE NOTED, C WET PIPE SPRINKLER SYSTEM SIGNED IN ACCORDANE WITH NFPA 13. Y OF <u>0.15 GPM/SQ FT OVER THE</u> OST DEMANDING 1500 SQ FT SPACED AT FT, WITH 250 GPM HOSE DEMAND. ORDINARY HAZARD GROUP II: UNLESS OTHERWISE NOTED, INSTALL AUTOMATIC WET PIPE SPRINKLER SYSTEM

HYDRAULICALLY DESIGNED IN ACCORDANE WITH NFPA 13. PROVIDE A DENSITY OF <u>0.2 GPM/SQ FT OVER THE</u> HYDRAULICALLY MOST DEMANDING 1950 SQ FT SPACED AT A MAXIMUM 130 SQ FT, WITH 250 GPM HOSE DEMAND.

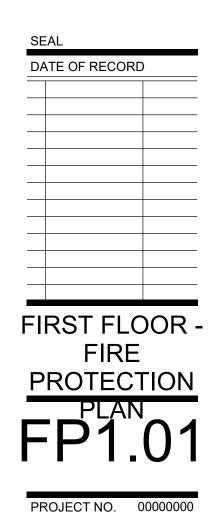
KEY NOTES

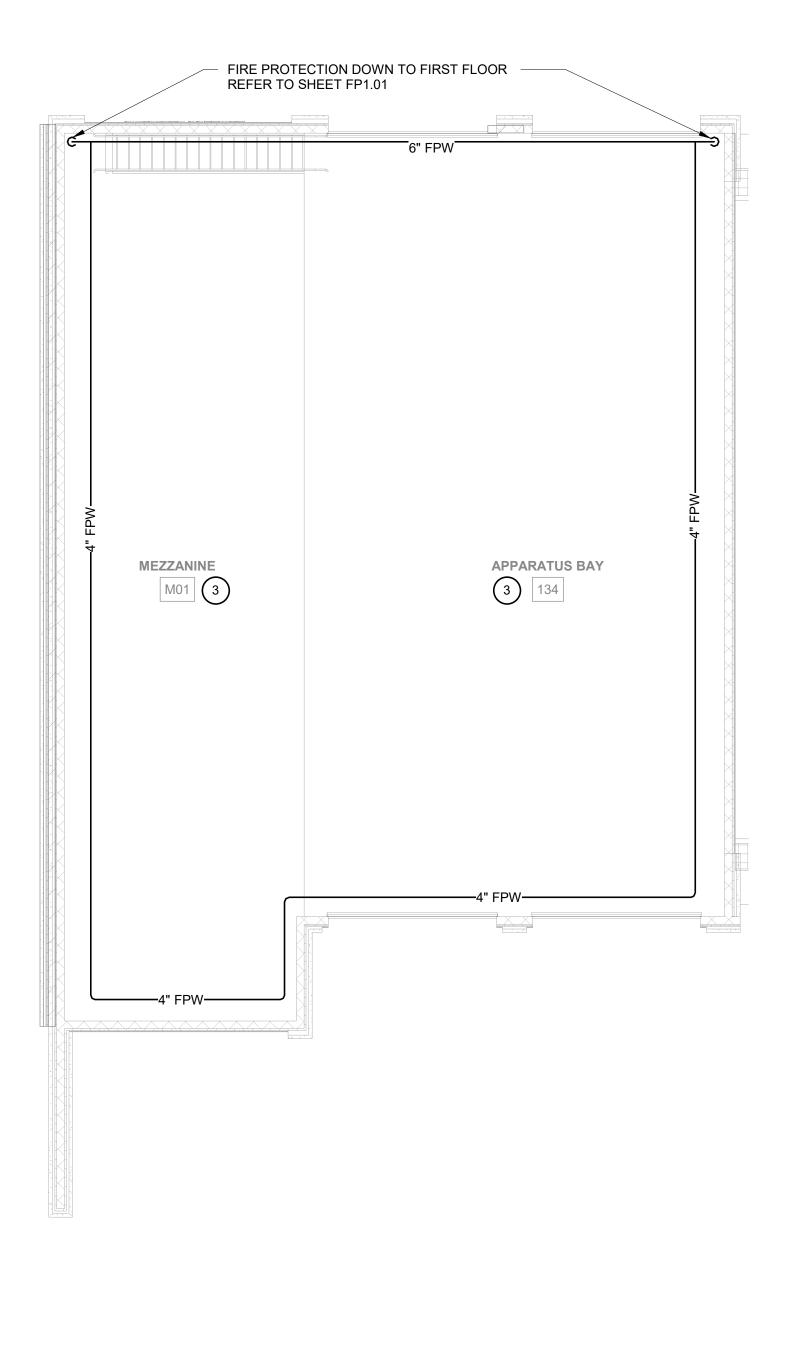
1. 6-INCH COMBINED DOMESTIC/FIRE WATER SERVICE LINE. 2. FIRE WATER BACKFLOW PREVENTER. STACK FIRE WATER AND DOMESTIC BACKFLOW PREVENTERS. COORDINATE WITH PLUMBING CONTRACTOR.

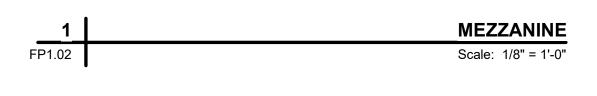
- 3. FIRE DEPARTMENT CONNECTION.
- 4. AUTOMATIC WET PIPE SPRINKLER SYSTEM RISER.



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1	LIGHT HAZARD: UNLESS OTHERWISE NOTED, INSTALL AUTOMATIC WET PIPE SPRINKLER SYSTEM HYDRAULICALLY DESIGNED IN ACCORDANE WITH NFPA 13. PROVIDE A DENSITY OF <u>0.1 GPM/SQ FT</u> OVER THE HYDRAULICALLY MOST DEMANDING <u>1500 SQ FT SPACED AT A MAXIMUM 225 SQ FT,</u> <u>WITH 100 GPM HOSE DEMAND.</u>
2	ORDINARY HAZARD GROUP I: UNLESS OTHERWISE NOTED, INSTALL AUTOMATIC WET PIPE SPRINKLER SYSTEM HYDRAULICALLY DESIGNED IN ACCORDANE WITH NFPA 13. PROVIDE A DENSITY OF 0.15 GPM/SQ FT OVER THE HYDRAULICALLY MOST DEMANDING 1500 SQ FT SPACED AT A MAXIMUM 130 SQ FT, WITH 250 GPM HOSE DEMAND.
3	ORDINARY HAZARD GROUP II: UNLESS OTHERWISE NOTED, INSTALL AUTOMATIC WET PIPE SPRINKLER SYSTEM HYDRAULICALLY DESIGNED IN ACCORDANE WITH NFPA 13. PROVIDE A DENSITY OF <u>0.2 GPM/SQ FT OVER THE</u> <u>HYDRAULICALLY MOST DEMANDING 1950 SQ FT SPACED AT</u> <u>A MAXIMUM 130 SQ FT, WITH 250 GPM HOSE DEMAND.</u>



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