

PLUMBING BASIS OF DESIGN		
SANITARY	54	DFU'S
HOT WATER	11.25	WSFU'S
COLD WATER	56.00	WSFU'S
GAS	559	CFH

EQUIPMENT ABBREVIATIONS

BFP	BACKFLOW PREVENTER
CB	CATCH BASIN
DET	DOMESTIC WATER EXPANSION TANK
FCO	FLOOR CLEAN OUT
FD	FLOOR DRAIN
GM	GAS METER
HB	HOSE BIBB
LAV	LAVATORY
MB	MOP BASIN
RP	RECIRCULATING PUMP
RPZ	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER
SH	SHOWER
SK	SINK
TP	TRAP PRIMER
TV	TEMPERING VALVE
WC	WATER CLOSET
WH	WATER HEATER
WHA	WATER HAMMER ARRESTOR
WM	WATER METER

DRAFTING SYMBOLS

XX	KEY NOTES
XX	DEMOLITION KEY NOTES
	DETAIL REFERENCE
	NUMBER
	SHEET ON WHICH DETAIL IS FOUND
	DETAIL REFERENCE
	NUMBER
	SHEET ON WHICH DETAIL IS FOUND

PLUMBING ABBREVIATIONS

AB	ABOVE	HW	HOT WATER
AFF	ABOVE FINISHED FLOOR	IE	INVERT ELEVATION
AFR	ABOVE FINISHED ROOF	JS	IN JOIST SPACE
AHU	AIR HANDLING UNIT	IN	INCHES
ASC	ABOVE SUSPENDED CEILING	IRTH	INFRARED TUBE HEATER
AVG	AVERAGE	IWS	IN WALL SPACE
BFP	BACKFLOW PREVENTER	LAT	LEAVING AIR TEMPERATURE
BHP	BRAKE HORSE POWER	LBS/LB	POUNDS OR POUND
BL	BELOW	LEC	LAB EQUIPMENT CONTRACTOR
BLDG	BUILDING	MAX	MAXIMUM
BOD	BOTTOM OF DUCT	MB	MOP BASIN
BOP	BOTTOM OF PIPE	MBH	1000 BRITISH THERMAL UNITS PER HOUR
BSMT	BASEMENT	MC	MECHANICAL CONTRACTOR
BTM	BOTTOM	MECH	MECHANICAL
CA	COMPRESSED AIR	MFR	MANUFACTURER
CAP	CAPACITY	MH	MANHOLE
CB	CATCH BASIN	MIN	MINIMUM
CENT	CENTRIFUGAL	MTD	MOUNTED
CFM	CUBIC FEET PER MINUTE	MTG	MOUNTING
CI	CAST IRON	MUW	MAKE-UP WATER
CLG	CEILING	NA	NOT APPLICABLE
CLO	CLOSET	NC	NORMALLY CLOSED
CO	CLEANOUT	NO	NUMBER OR NORMALLY OPEN
CONC	CONCRETE	NTS	NOT TO SCALE
COND	CONDENSING UNIT	OS&Y	OUTSIDE SCREW & YOKE
CONN	CONNECT	OWS	OIL WATER SEPARATOR
CONST	CONSTANT	PC	PLUMBING CONTRACTOR
CONTR	CONTRACTOR	PD	PRESSURE DROP
COTG	CLEANOUT TO GRADE	PIV	POST INDICATING VALVE
CP	CIRCULATING PUMP	PLBG	PLUMBING
CTW	CLOSE TO WALL	PRESS	PRESSURE
CU	COMBINATION UNIT	REQ'D	REQUIRED
CW	COLD WATER	ROOM	ROOM
DCW	DOMESTIC COLD WATER	RPM	REVOLUTIONS PER MINUTE
DEG	DEGREE	RPZ	REDUCED PRESSURE ZONE
DF	DRINKING FOUNTAIN	SA	SHOCK ABSORBER
DHW	DOMESTIC HOT WATER	SAN	SANITARY
DHWR	DOMESTIC HOT WATER RETURN	SF	SILL FAUCET
DIA	DIAMETER	SH	SHOWER
DISCH	DISCHARGE	SHT MTL	SHEET METAL
DN	DOWN	SP	STATIC PRESSURE
EAT	ENTERING AIR TEMPERATURE	SPD	SUMP PUMP DISCHARGE
EW	EMERGENCY EYEWASH	SOFT	SOFT
EF	EXHAUST FAN	SS	STAINLESS STEEL
EFF	EFFICIENCY	ST	STORAGE TANK
EL	ELEVATION	STAT	THERMOSTAT
ELECT	ELECTRICAL	STD	STANDARD
ESP	ELEVATOR SUMP PUMP	STM	STORM
ET	EXPANSION TANK	STRUCT	STRUCTURAL
EW	ELECTRIC WATER COOLER	SUCT	SUCTION
EW	ELECTRIC WATER HEATER	SW	SINGLE WALL
EX	EXIST/EXISTING	SYST	SYSTEM
EXH	EXHAUST	TCP	TEMPERATURE CONTROL PANEL
FCO	FLOOR CLEANOUT	TD	TRENCH DRAIN
FD	FLOOR DRAIN	TEMP	TEMPERATURE
FFA	FROM FLOOR ABOVE	TFA	TO FLOOR ABOVE
FFB	FROM FLOOR BELOW	TFB	TO FLOOR BELOW
FIN	FINISHED	THERM	THERMOMETER
FLEX	FLEXIBLE	THRD	THREADED
FLR	FLOOR	THRU	THROUGH
FPWH	FROSTPROOF WALL HYDRANT	TK	TANK
FRL	FILTER/REGULATOR/LUBRICATOR	TP	TRAP PRIMER
FT	FEET	TYP	TYPICAL
FTHD	FEET OF HEAD	UG	UNDER GROUND
FURN	FURNISH	UR	URINAL
G	NATURAL GAS	UST	UNDERGROUND STORAGE TANK
GA	GAUGE	V	VENT
GALV	GALVANIZED	VB	VACUUM BREAKER
GC	GENERAL CONTRACTOR	VTR	VENT THRU ROOF
GEN	GENERAL	W/	WITH
GPM	GALLONS PER MINUTE	WB	WASHER BOX
GV	GATE VALVE	WC	WATER CLOSET
HB	HOSE BIBB	WCO	WALL CLEAN OUT
HORIZ	HORIZONTAL	WF	WASH FOUNTAIN
HP	HORSE POWER	WH	WALL HYDRANT
HTG	HEATING	WT	WATER TANK
HTR	HEATER	WTD	WATER TEMPERATURE DIFFERENCE
HVAC	HEATING, VENTILATING & AIR CONDITIONING	WTR	WATER

PLUMBING GENERAL NOTES

1. INSTALLATION OF PLUMBING FIXTURES AND ACCESSORIES, INCLUDING FLUSH CONTROL VALVES INTENDED FOR PEOPLE WITH DISABILITIES, SHALL BE IN ACCORDANCE WITH ADA REQUIREMENTS.
2. INSTALLATION OF PLUMBING PIPING SHALL BE FULLY COORDINATED WITH STRUCTURAL, ARCHITECTURAL, ELECTRICAL, AND HVAC DRAWINGS TO AVOID CONFLICT.
3. NO PLUMBING (WATER, DRAINS, VENT, OR GAS PIPING) SHALL BE INSTALLED DIRECTLY ABOVE ANY ELECTRICAL PANELS. COORDINATE WITH OTHER DIVISIONS BEFORE PROCEEDING WITH INSTALLATION.
4. IF NON DESIGN BASE EQUIPMENT IS SELECTED, CONTRACTOR SHALL BEAR ADDITIONAL COSTS FOR MODIFICATIONS TO THE ORIGINAL SYSTEM(S).
5. PROVIDE WATER HAMMER ARRESTERS AT PLUMBING FIXTURES AND GROUPS OF PLUMBING FIXTURES THAT ARE SUBJECT TO WATER HAMMER. SELECT ARRESTERS IN ACCORDANCE WITH THE PLUMBING AND DRAINAGE INSTITUTE STANDARD.
6. CONTRACTOR SHALL FURNISH AND INSTALL ALL MATERIALS, LABOR AND EQUIPMENT PERMIT FEES, REQUIRED FOR, OR INCIDENTAL TO THE INSTALLATION OF A COMPLETE AND OPERATIONAL PLUMBING SYSTEM AS INDICATED IN THE CONTRACT DOCUMENTS INCLUDING SPECIFICATIONS.
7. ALL PLUMBING SERVICES GOING INTO THE BUILDING AND LEAVING THE BUILDING SHALL BE CONNECTED TO THE SITE UTILITIES. COORDINATE WITH SITE UTILITIES DWGS. COORDINATE ALL EXTERIOR UNDERGROUND PLUMBING WORK WITH THE SITE UTILITIES BEFORE COMMENCING WORK. COORDINATE ALL UNDERGROUND PIPING WITH FOUNDATION DRAWINGS.
8. ALL PLUMBING WORK SHALL BE IN CONFORMANCE WITH THE OHIO PLUMBING CODE, LATEST EDITION ADOPTED BY THE STATE OF OHIO WITH OHIO AMENDMENTS, MUNICIPAL OR CITY CODES, AND THE AUTHORITY HAVING JURISDICTION.
9. INSTALL BALL VALVE CLOSE TO WATER MAIN ON EACH BRANCH AND RISER SERVING PLUMBING EQUIPMENT AND FIXTURES.
10. SANITARY/VENT FITTING TYPES SHALL BE AS REQUIRED BY THE OHIO BUILDING AND PLUMBING CODE.
11. FIRST FLOOR 100'-0" IS EQUIVALENT TO 891.15 FINISHED FLOOR ELEVATION.

PLUMBING SYMBOLS

----	CW	----	DOMESTIC COLD WATER
-----	G	-----	NATURAL GAS
----	HW	----	DOMESTIC HOT WATER
----	HWR	----	HOT WATER RETURN
-----	SAN	-----	SANITARY
-----	V	-----	VENT
			BALL VALVE
			CALIBRATED BALANCING VALVE
			CHECK VALVE
			SINGLE LINE - PIPE DROP
			SINGLE LINE - PIPE RISE
			SINGLE LINE - PIPE RISE TEE
			SINGLE LINE - PIPE DROP TEE
			TWO LINE - PIPE DROP
			TWO LINE - PIPE RISE

DLZ

ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES

DLZ OHIO, INC

DATE

REVISION

NO.

OHIO

FAIRFIELD COUNTY AUDITOR'S OFFICE
REAL ESTATE DEPARTMENT

GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

LANCASTER

DRAWING NUMBER

P0.1

PLUMBING

DRAWN: KB

DESIGNED: KB

APPR'D: ESA

DATE: December 6th, 2018

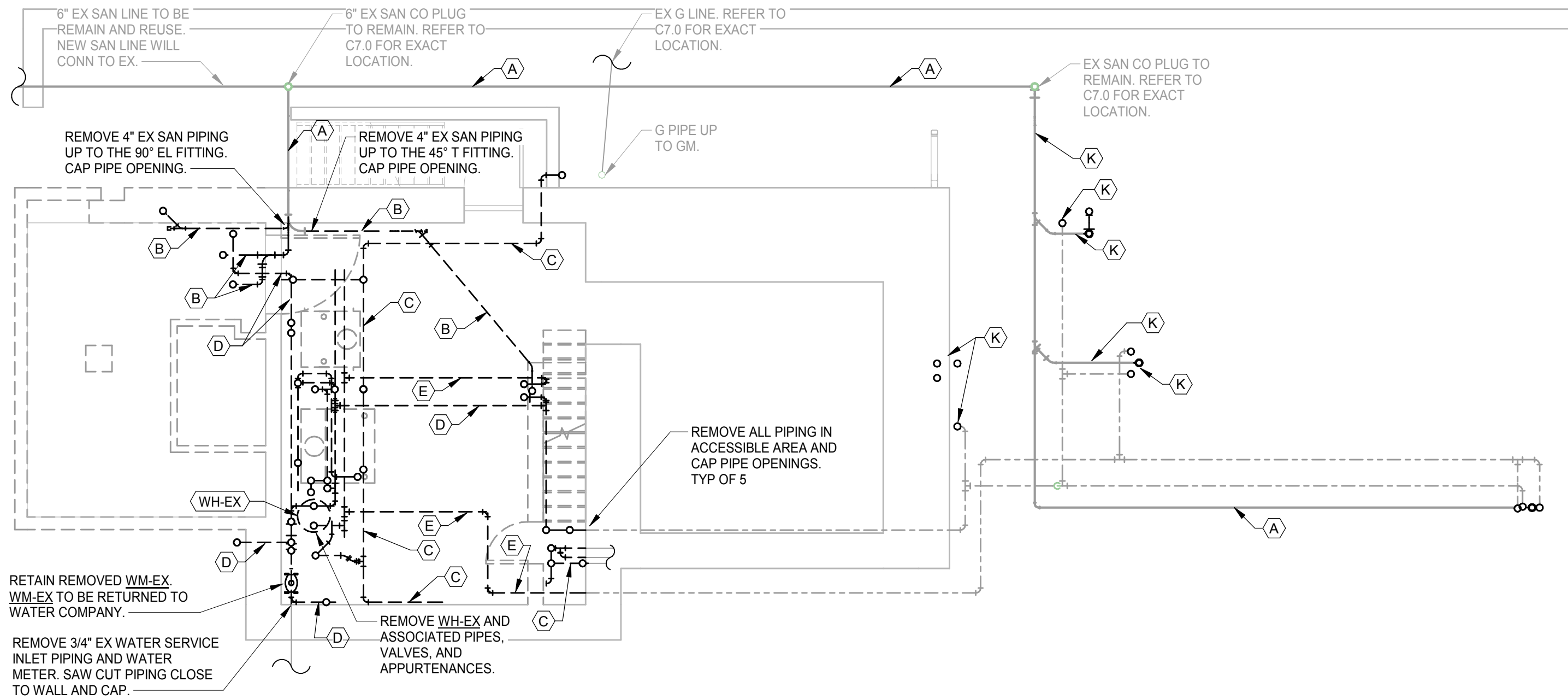
PROJECT NUMBER

1821-7001-50

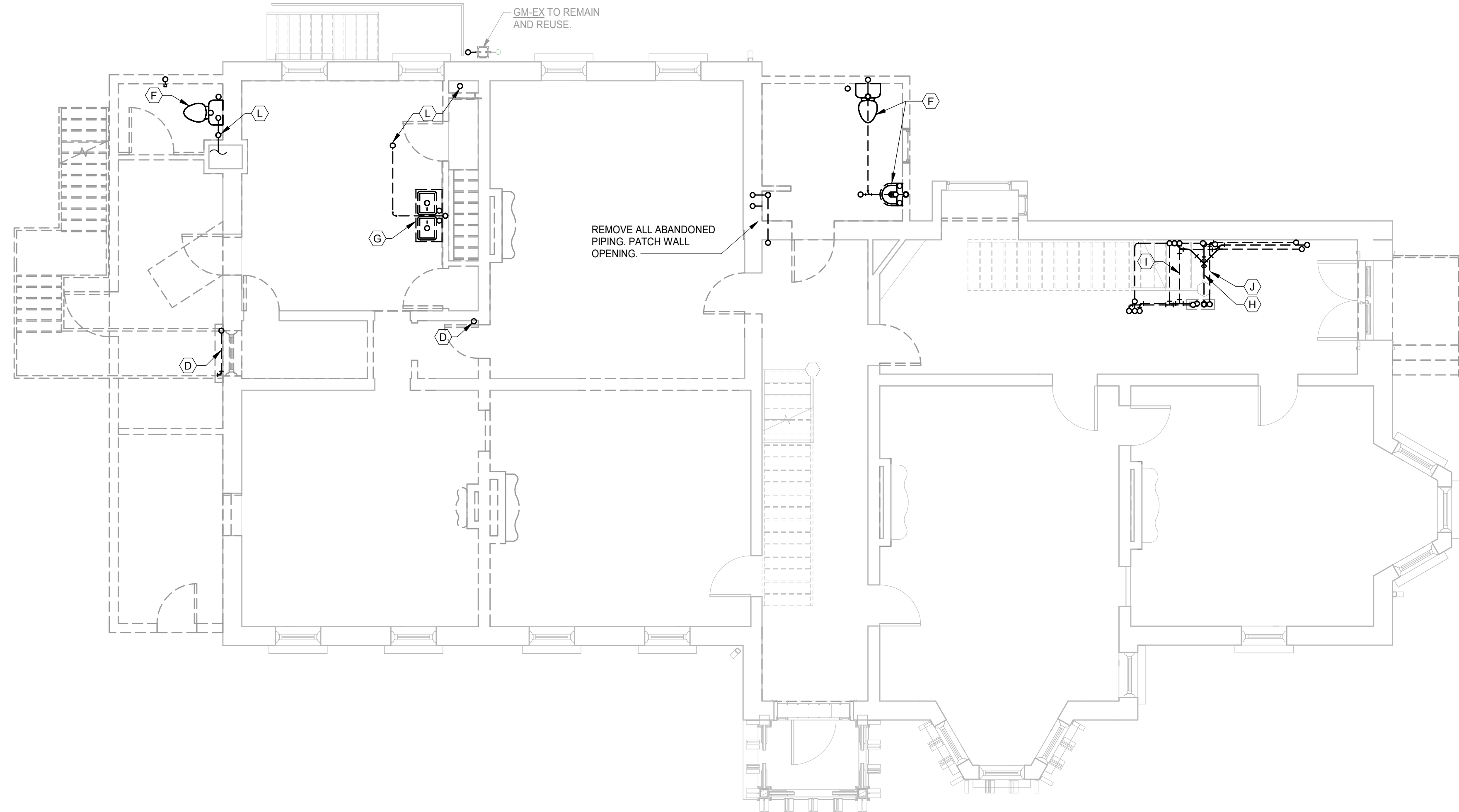
CHK'D: MLV

PROJECT NUMBER

1821-7001-50



1 BASEMENT PLUMBING REMOVAL
P1.1 SCALE: 3/16" = 1'-0"
NORTH



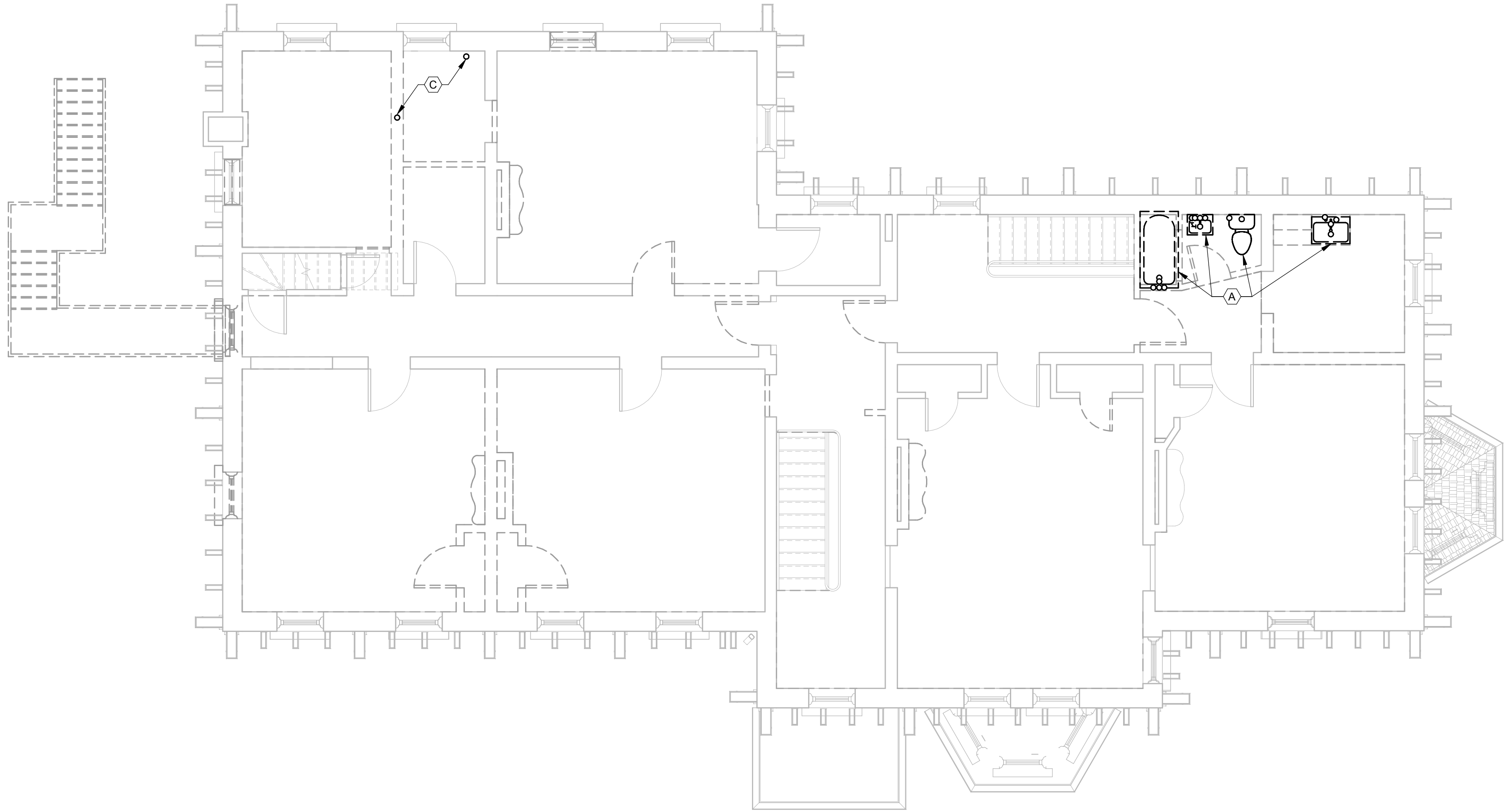
2 FIRST FLOOR PLUMBING REMOVAL
P1.1 SCALE: 3/16" = 1'-0"
NORTH


P1.1 CODED NOTES

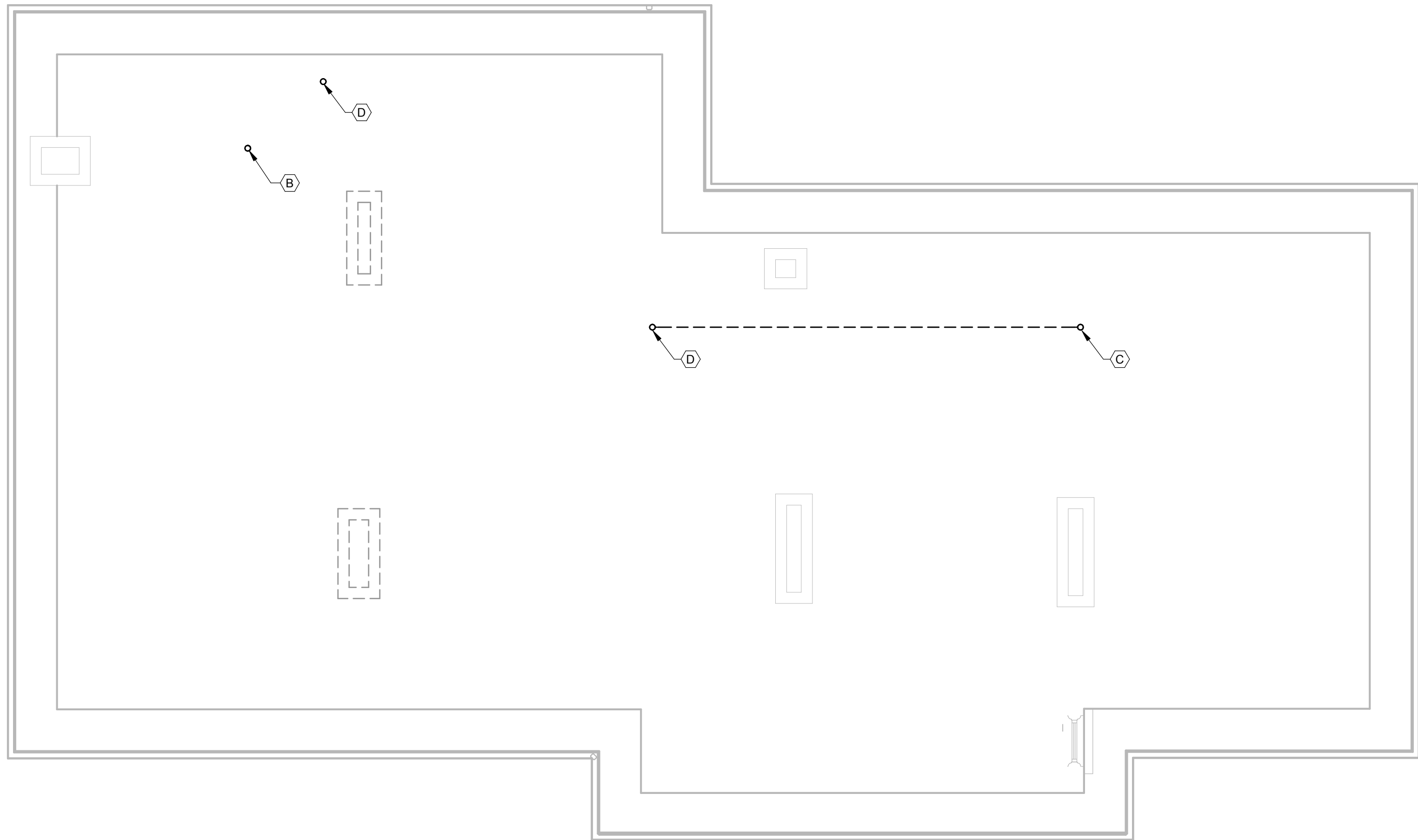
- A ABANDON EX SAN PIPE.
- B REMOVE EX SAN PIPING.
- C REMOVE 2" EX G PIPING. ANY GAS PIPING REMAINS IN THE CRAWL SPACE NEEDED TO BE PURGED BEFORE IT IS CAPPED.
- D REMOVE 3/4" EX DCW PIPING.
- E REMOVE 3/4" EX DHW PIPING.
- F REMOVE EX PLUMBING FIXTURES AND CONNECTED PLUMBING PIPING. REMOVE PIPING BELOW GROUND LEVEL. CAP PIPE OPENINGS.
- G REMOVE EX PLUMBING FIXTURES AND CONNECTED PLUMBING PIPING. REMOVE ALL PIPINGS BEHIND THE WALL AND THRU BASEMENT FLOOR. PATCH WALL AND FLOOR OPENING. CAP PIPE OPENINGS.
- H REMOVE EX SAN PIPE FROM SECOND FLOOR AND PATCH PIPE OPENING. SAW CUT EX SAN PIPE CLOSE TO FLOOR. REMOVE SAN PIPE IN BULKHEAD AND CHASE. CAP PIPE OPENING.
- I REMOVE EX DCW PIPE FROM SECOND FLOOR AND PATCH PIPE OPENING. SAW CUT EX DCW PIPE CLOSE TO FLOOR. REMOVE DCW PIPE IN BULKHEAD AND CHASE. CAP PIPE OPENING.
- J REMOVE EX DHW PIPE FROM SECOND FLOOR AND PATCH PIPE OPENING. SAW CUT EX DHW PIPE CLOSE TO FLOOR. REMOVE DHW PIPE IN BULKHEAD AND CHASE. CAP PIPE OPENING.
- K FIELD VERIFY FOR ALL PLUMBING PIPE INVERT ELEVATION. REMOVE ALL EXPOSED PLUMBING PIPING ABOVE FINISHED GRADE. REMOVE ALL PLUMBING PIPING WITH LESS THAN 12" FROM NEW GROUND LEVEL.
- L REMOVE EX V PIPE.




DRAWING NUMBER	LANCASTER	FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT	OHIO	DRAWN: KB	CHK'D: MLV	NO.	REVISION	DATE
P1.1		BASEMENT & FIRST FLOOR PLUMBING REMOVAL		DESIGNED: KB APPRVD: ESA DATE: December 6th, 2018 PROJECT NUMBER		1821-7001-50		
PLUMBING								



 **1 SECOND FLOOR PLUMBING REMOVAL**
P1.2 SCALE: 3/16" = 1'-0"



 **2 ATTIC PLUMBING PIPING REMOVAL**
P1.2 SCALE: 3/16" = 1'-0"

P1.2 CODED NOTES

- A REMOVE EX PLUMBING FIXTURES AND CONNECTED SAN, V, DCW, AND DHW PIPING. SEAL FLOOR PIPE OPENINGS.
- B REMOVE EX V PIPE UP IN ATTIC. EX V PIPE OPENING THRU ROOF TO BE USED FOR NEW V PIPE INSTALLATION.
- C REMOVE EX V PIPE.
- D REMOVE EX V PIPE IN ATTIC AND THRU ROOF.

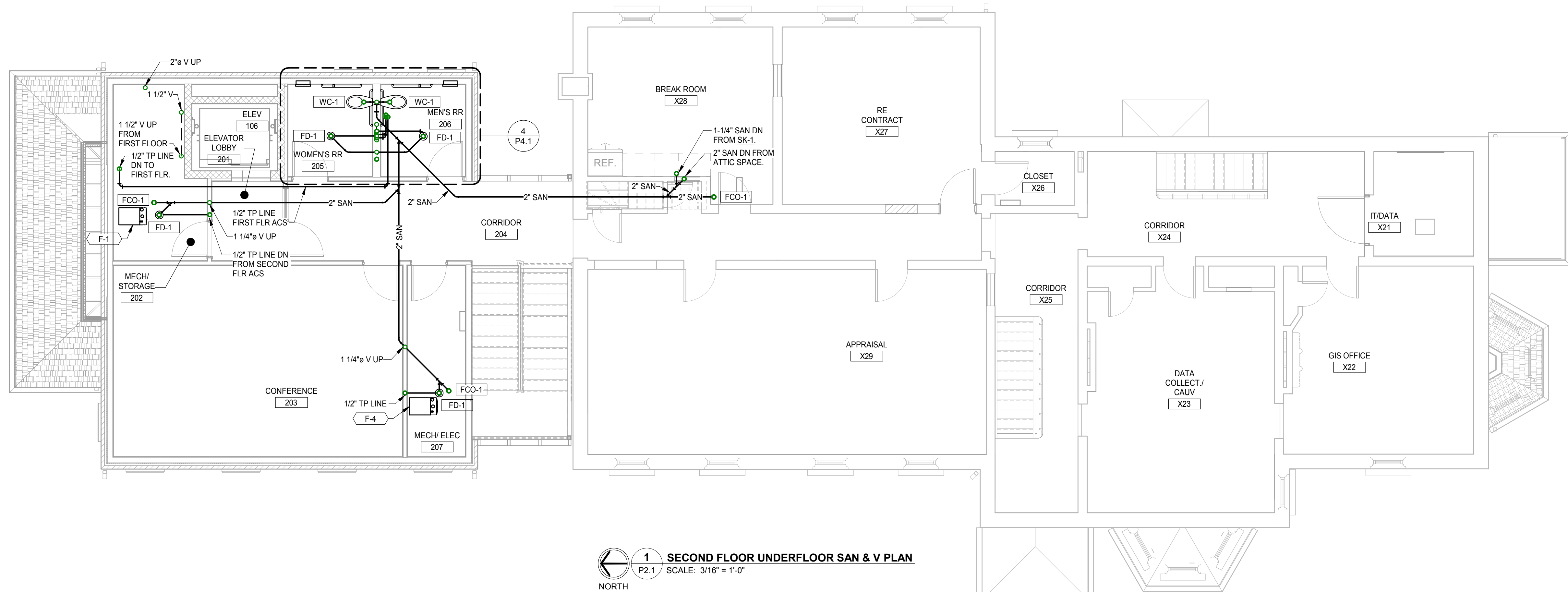
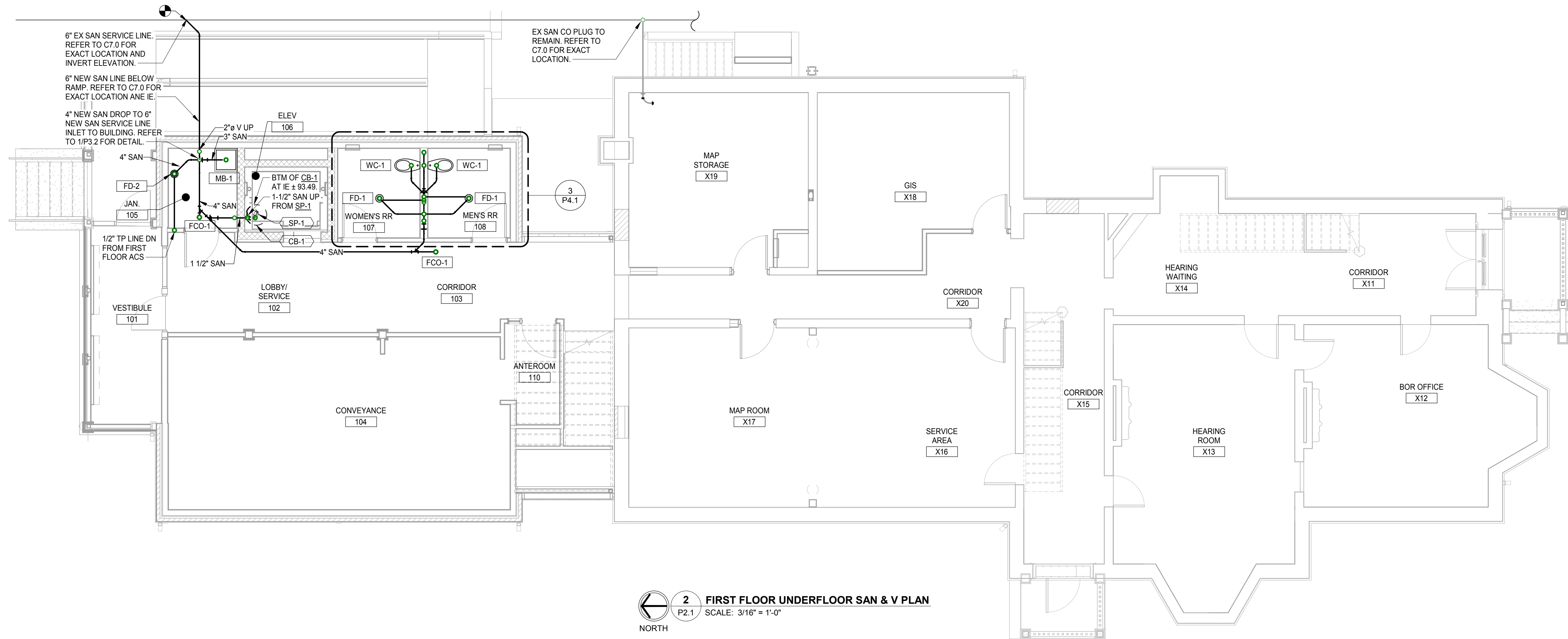


NO.	REVISION	DATE

DRAWN: KB	CHK'D: MLV
DESIGNED: KB	
APPRVD: ESA	
DATE: December 6th, 2018	
PROJECT NUMBER	1821-7001-50

OHIO	LANCASTER	FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT
		SECOND FLOOR PLUMBING REMOVAL

DRAWING NUMBER	P1.2
	PLUMBING

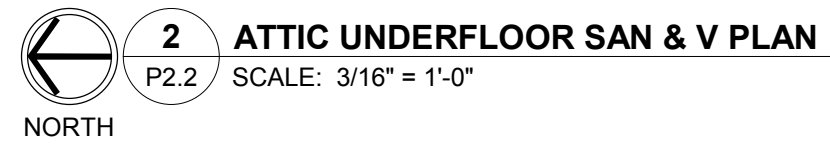
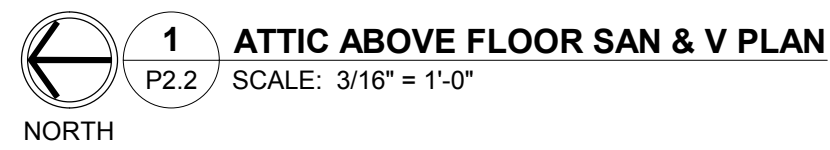


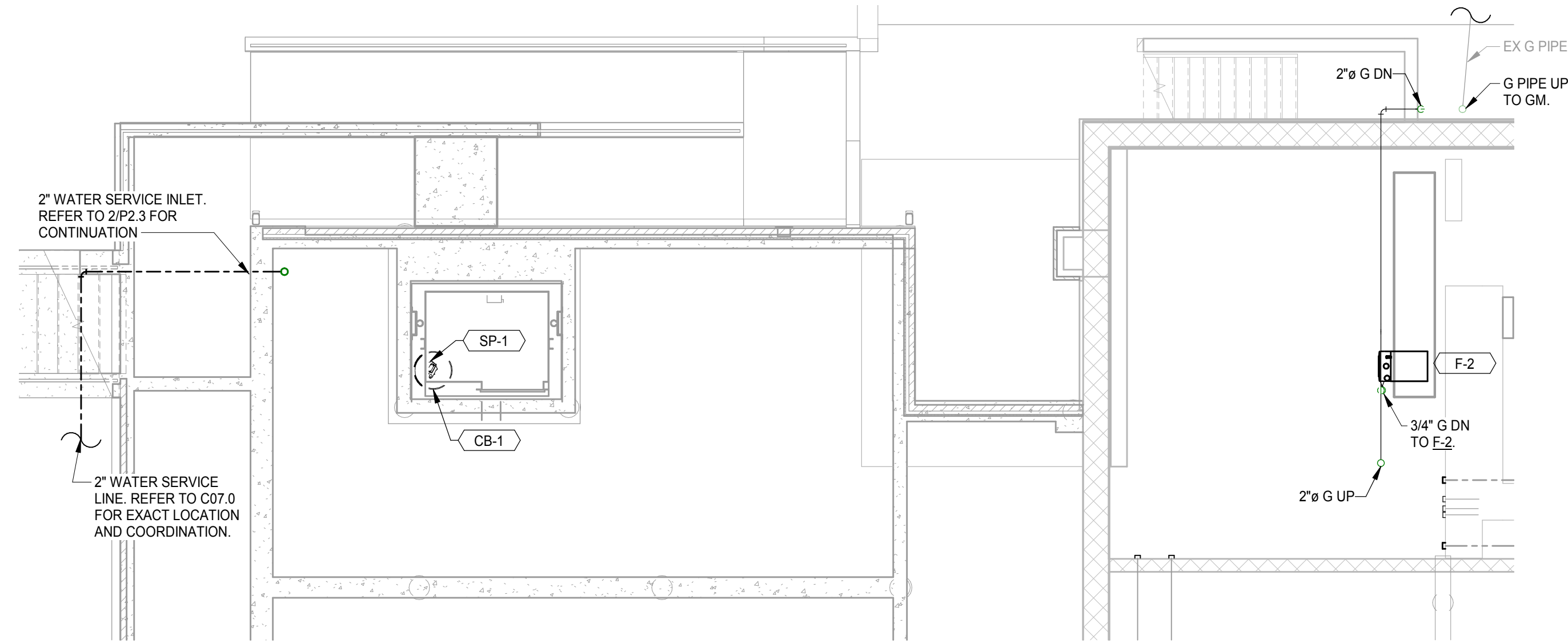
NO.	REVISION	DATE

DRAWN: KB	CHK'D: MLV
DESIGNED: KB	
APPROVED: ESA	
DATE: December 6th, 2018	
PROJECT NUMBER	1821-7001-50

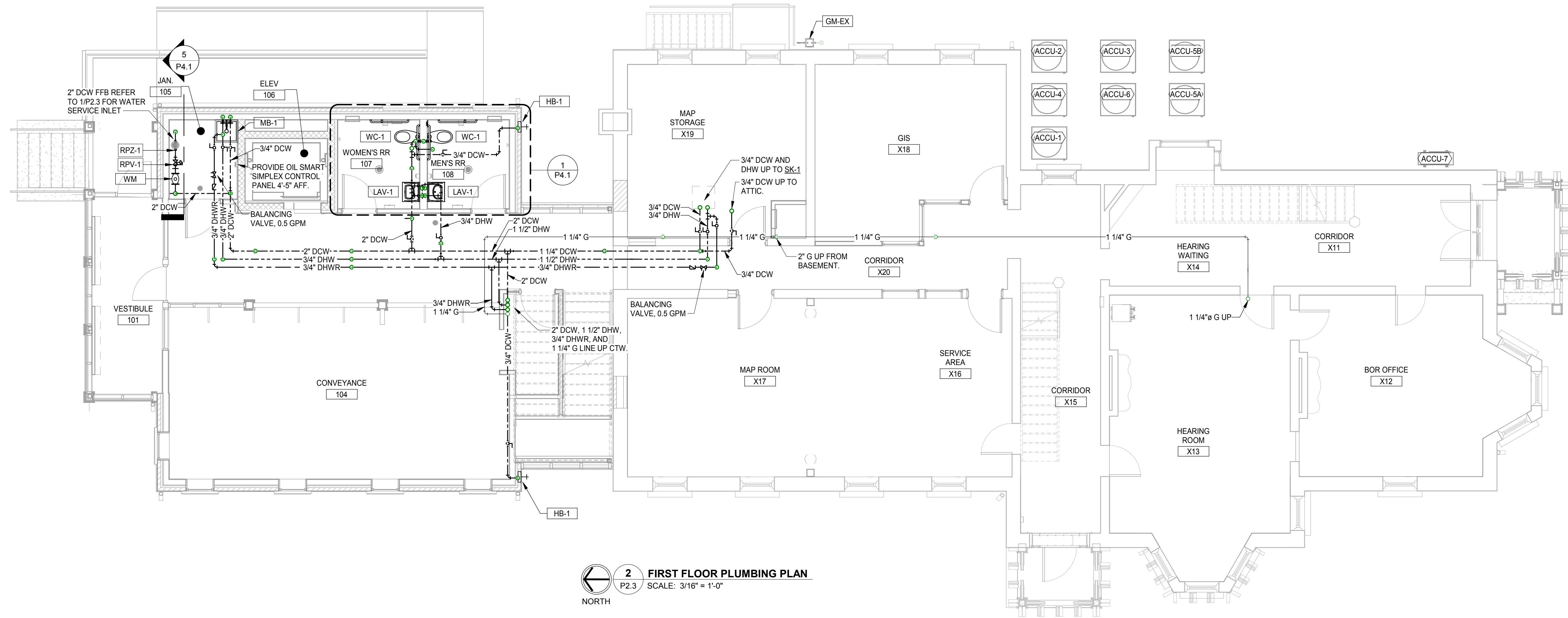
OHIO	FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT	FIRST & SECOND FLOOR UNDERFLOOR PLUMBING PLAN
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DRAWING NUMBER	P2.1	PLUMBING
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1 BASEMENT PLUMBING PLAN
P2.3 SCALE: 3/16" = 1'-0"
NORTH



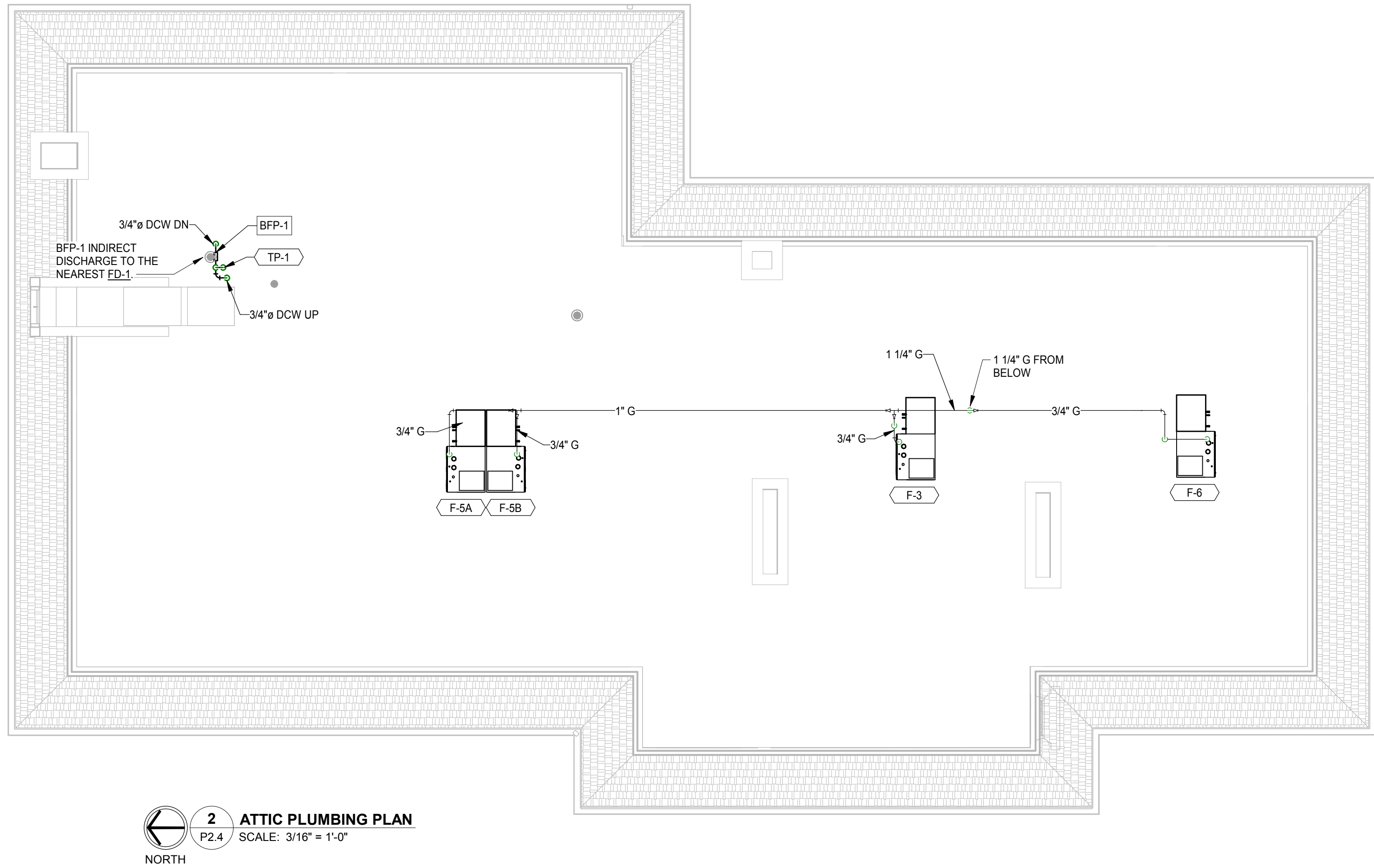
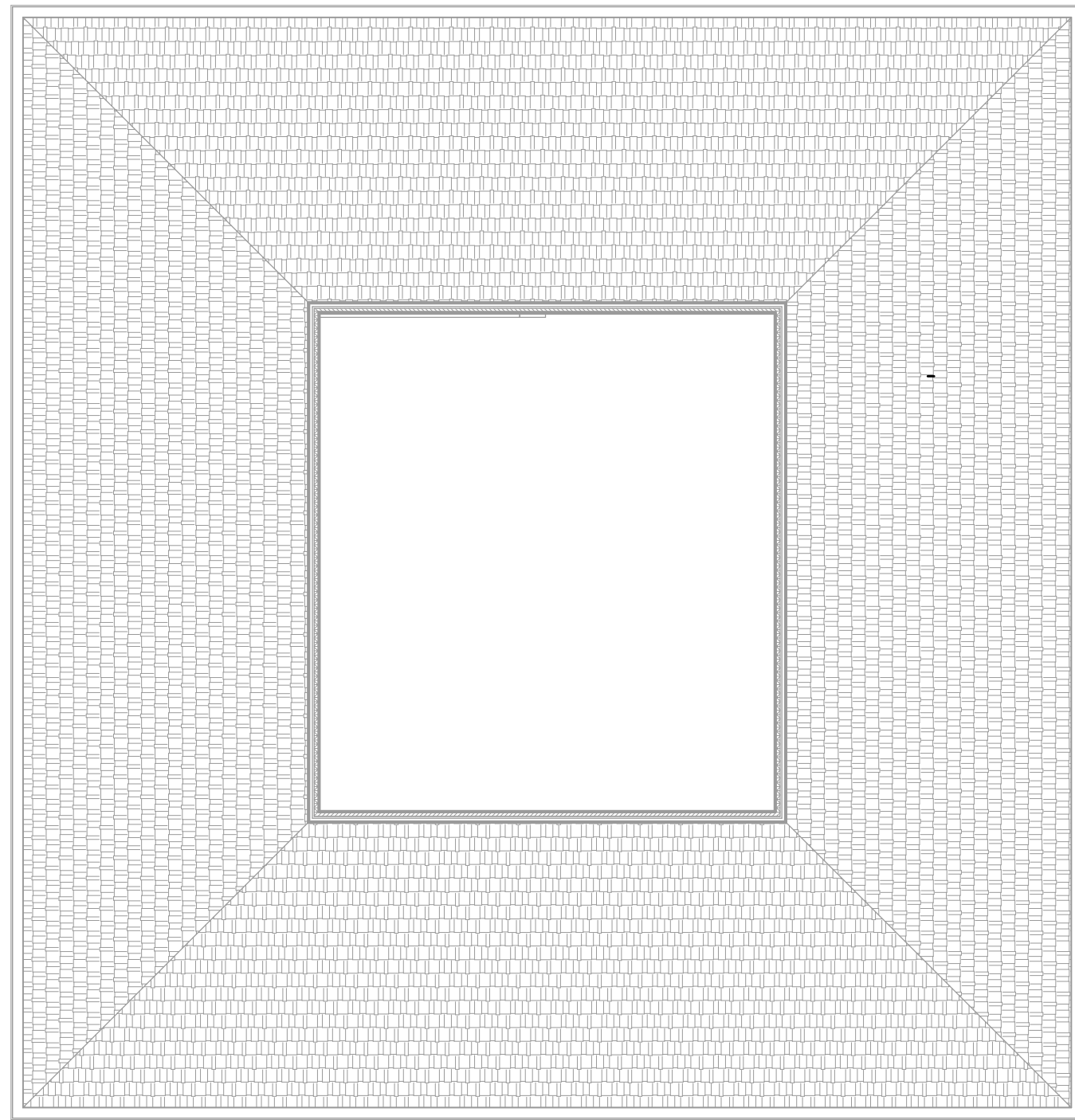
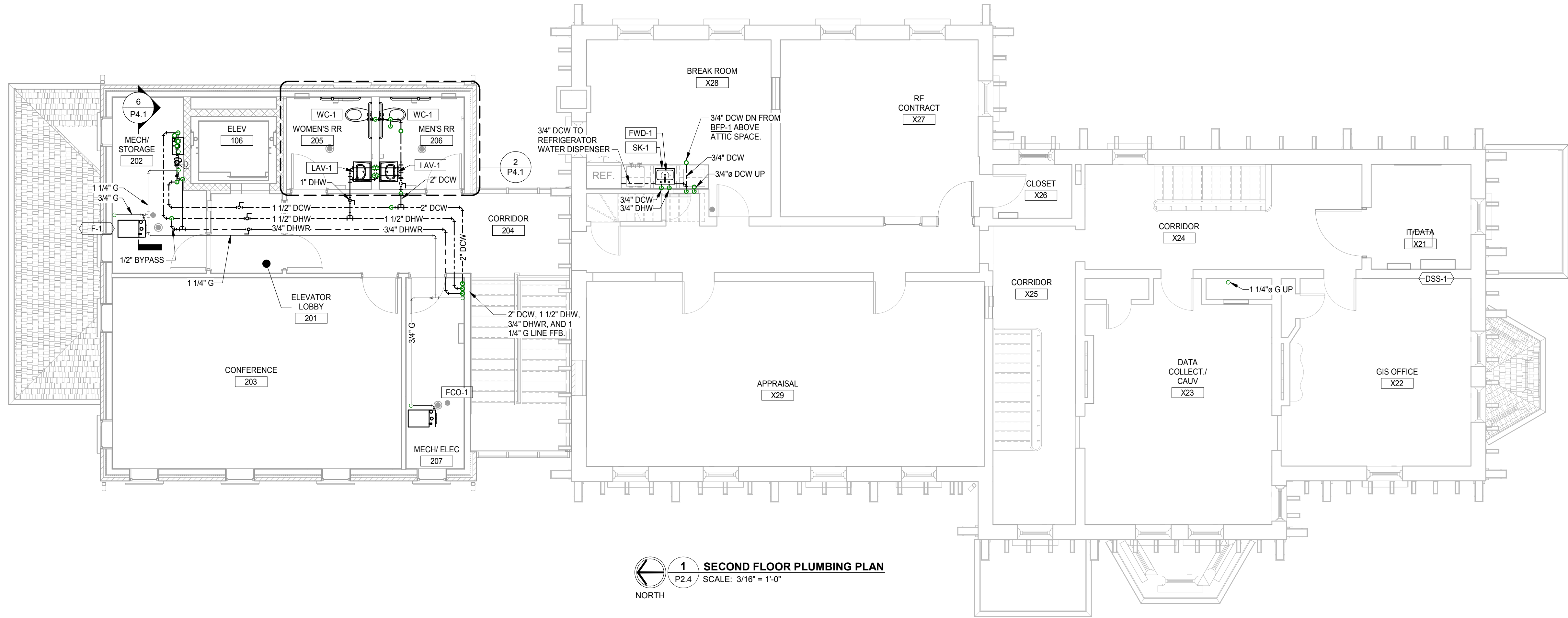
2 FIRST FLOOR PLUMBING PLAN
P2.3 SCALE: 3/16" = 1'-0"
NORTH

NO.	REVISION	DATE

DRAWN: KB	CHK'D: MLV	NO.
DESIGNED: KB	APPROV'D: ESA	DATE: December 6th, 2018
PROJECT NUMBER	1821-7001-50	

OHIO	FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT
LANCASTER	BASEMENT & FIRST FLOOR PLUMBING PLAN

DRAWING NUMBER	P2.3
PLUMBING	

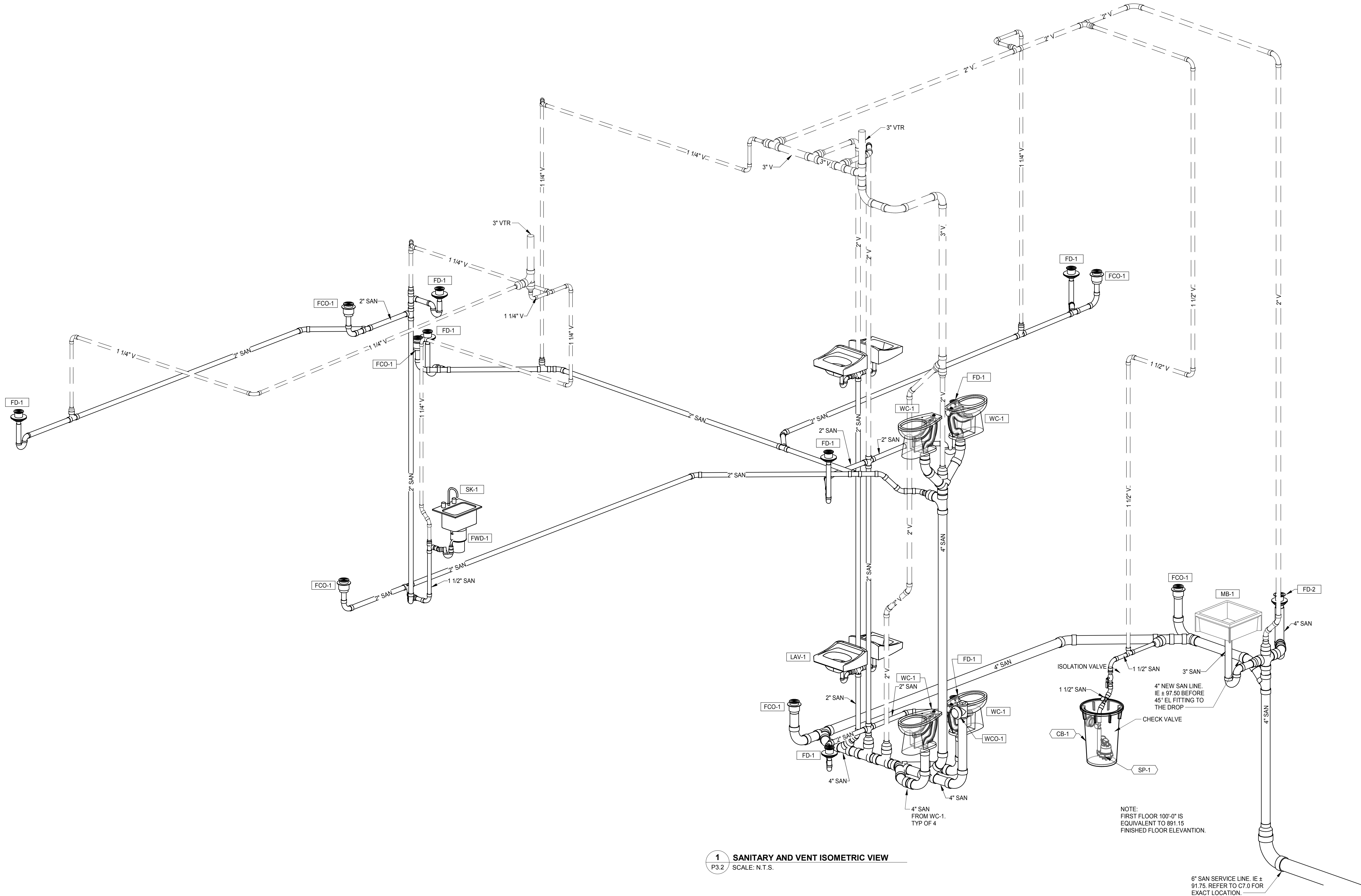


DRAWING NUMBER	NO.	REVISION	DATE
P2.4			

DRAWN: KB	CHK'D: MLV
DESIGNED: KB	
APPROVED: ESA	
DATE: December 6th, 2018	
PROJECT NUMBER	
1821-7001-50	

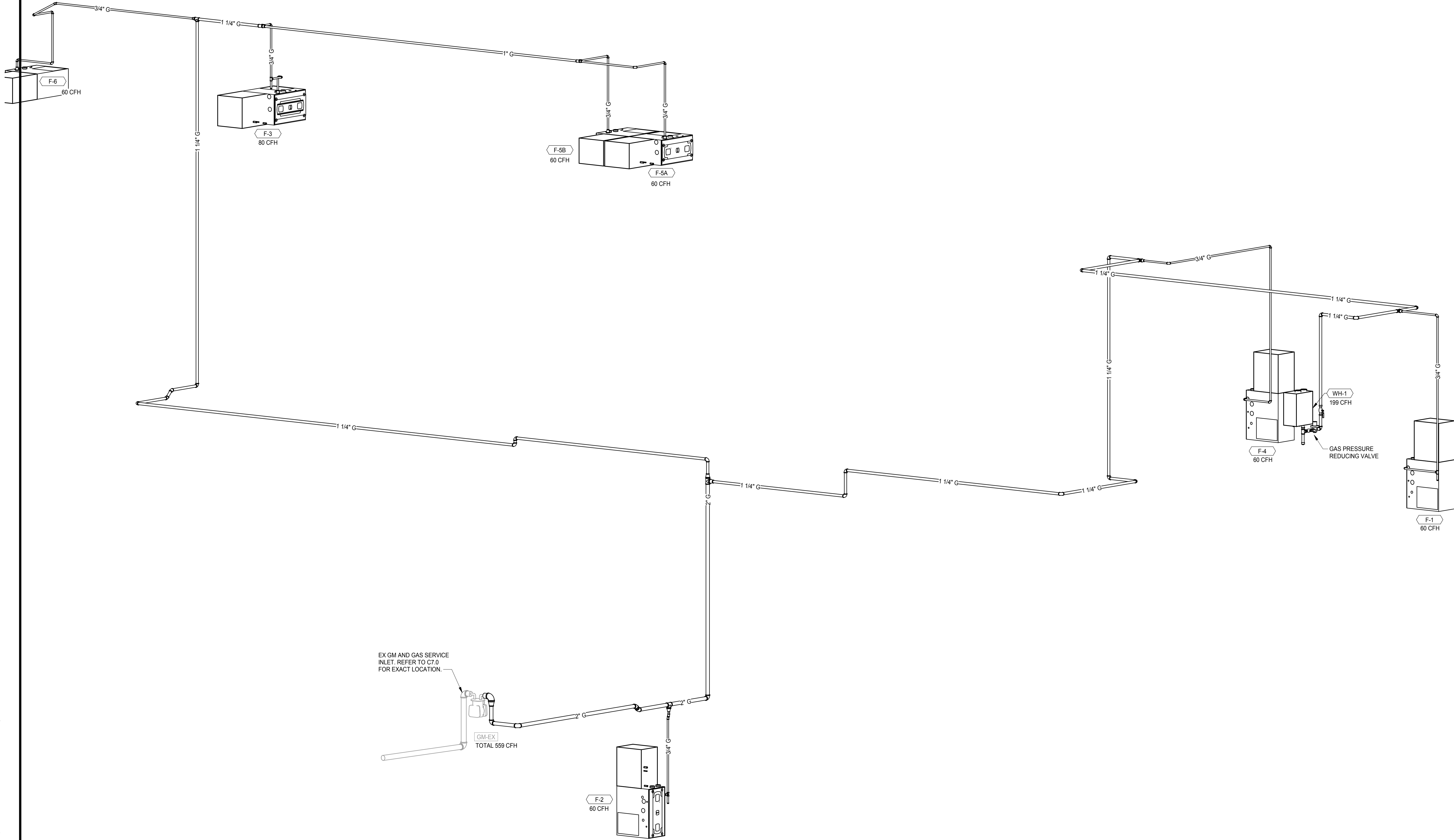
LANCASTER	OHIO	FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT
PLUMBING		SECOND FLOOR & ATTIC PLUMBING PLAN



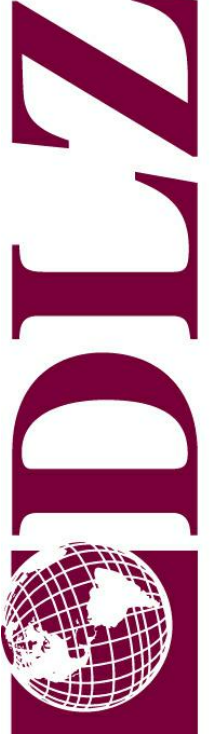



1 SANITARY AND VENT ISOMETRIC VIEW
P3.2 SCALE: N.T.S.

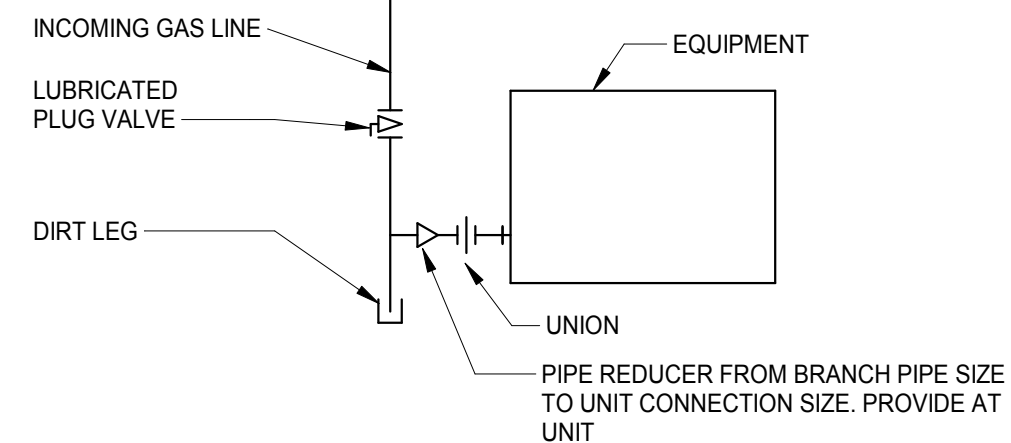
DRAWING NUMBER P3.2	LANCASTER FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT	OHIO 1821-7001-50	PROJECT NUMBER 1821-7001-50	DATE December 6th, 2018	APPROVED ESB	DESIGNED KB	DRAWN KB	NO.	REVISION	DATE	 ERIC S. ACKERS E-72803 REGISTERED PROFESSIONAL ENGINEER DLZ OHIO, INC.	 DLZ ARCHITECTURE • ENGINEERING • PLANNING SURVEYING • CONSTRUCTION SERVICES DLZ OHIO, INC.



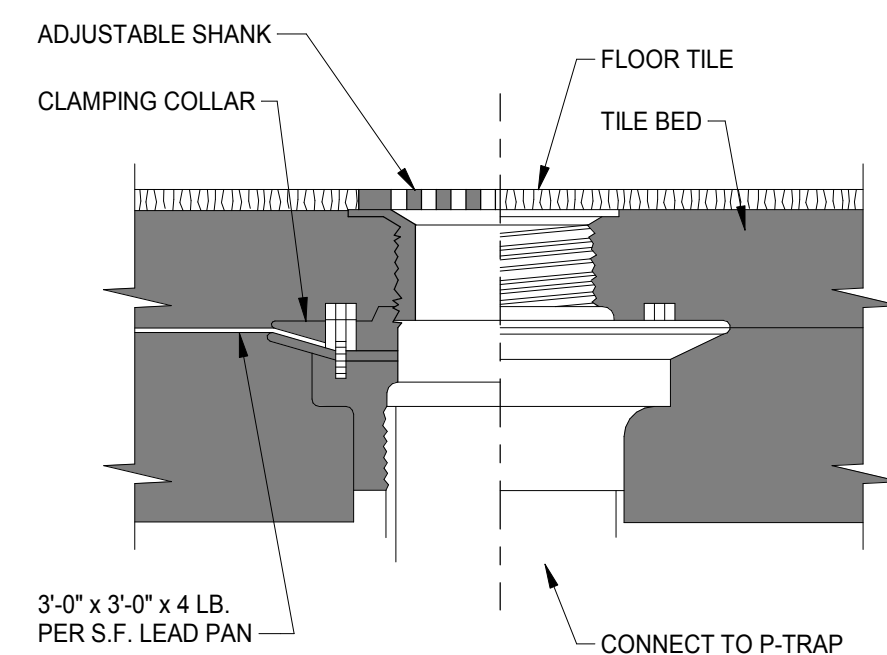
1 NATURAL GAS ISOMETRIC VIEW
P3.3 SCALE: N.T.S.

DRAWING NUMBER P3.3	LANCASTER FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT NATURAL GAS ISOMETRIC VIEW	OHIO	DRAWN: KB	CHK'D: MLV	NO.	REVISION	DATE	PROJECT NUMBER 1821-7001-50	DATE December 6th, 2018	APPROVED: ESA	DESIGNED: KB
<div>DLZ ARCHITECTURE • ENGINEERING • PLANNING SURVEYING • CONSTRUCTION SERVICES DLZ OHIO, INC.</div> <div> ERIC S. ACKERMAN E-72803 REGISTERED PROFESSIONAL ENGINEER STATE OF OHIO</div>											

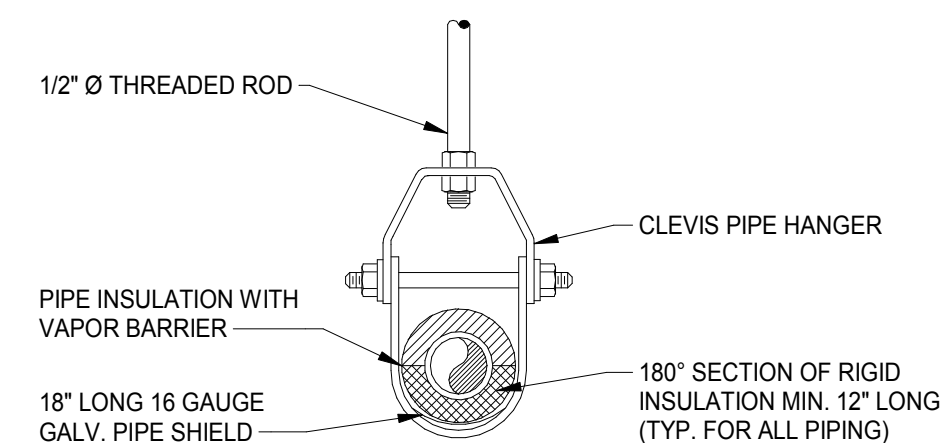




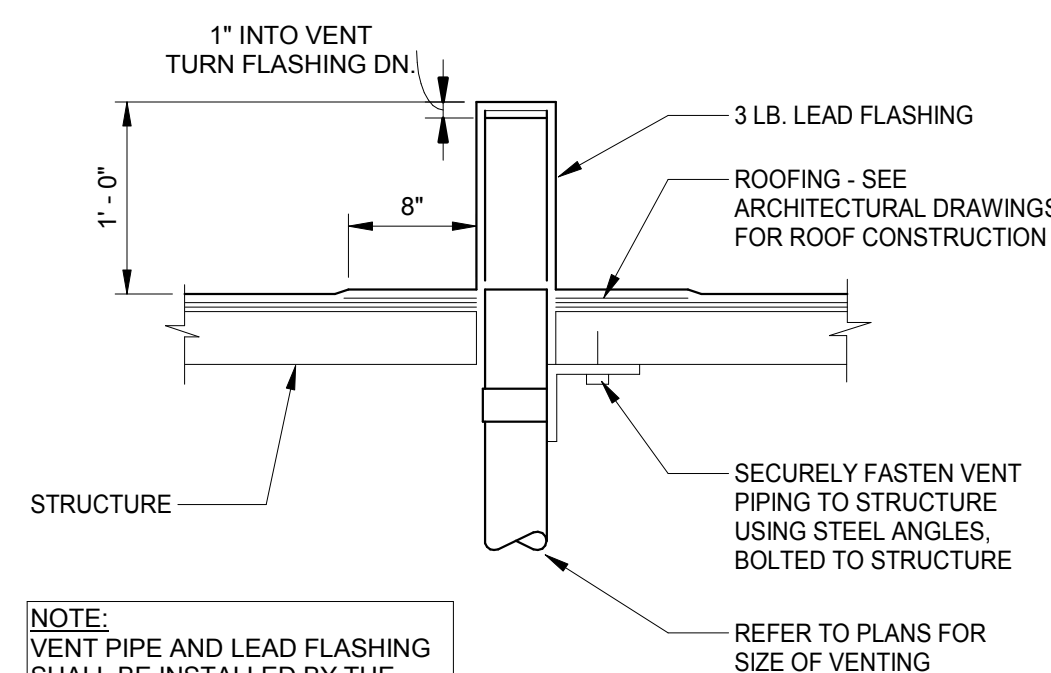
3 TYPICAL GAS EQUIPMENT CONNECTION DETAIL



2 FLOOR DRAIN DETAIL
P5.1 SCALE: N.T.S.

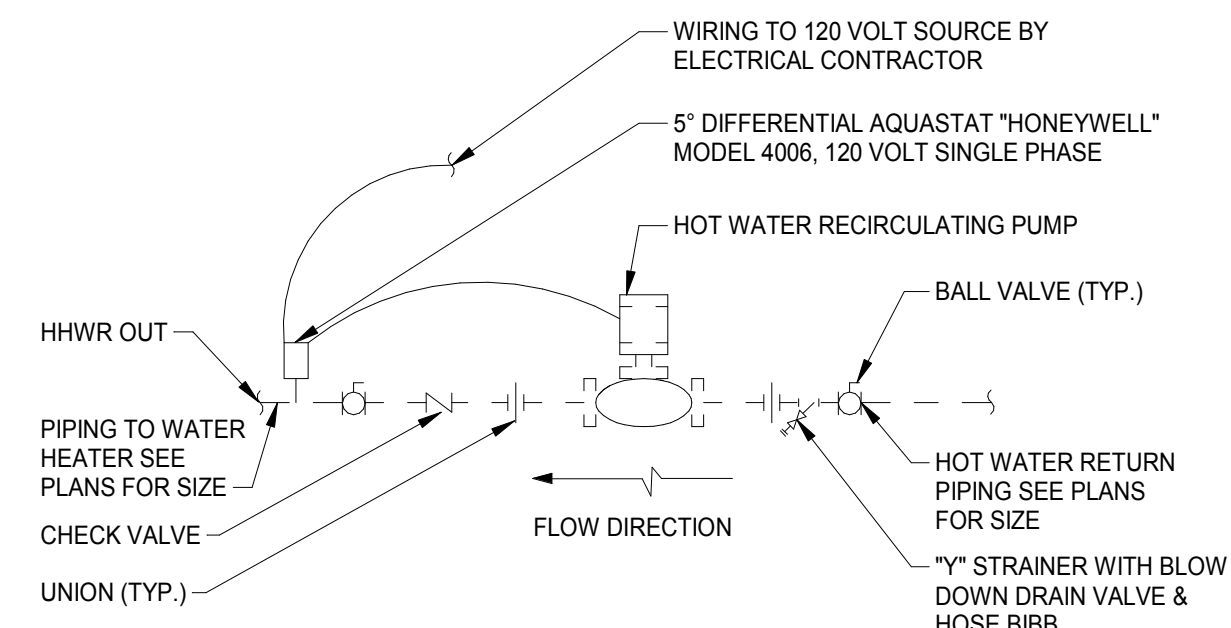


1 PIPE SUPPORT DETAIL
P5.1 SCALE: N.T.S.

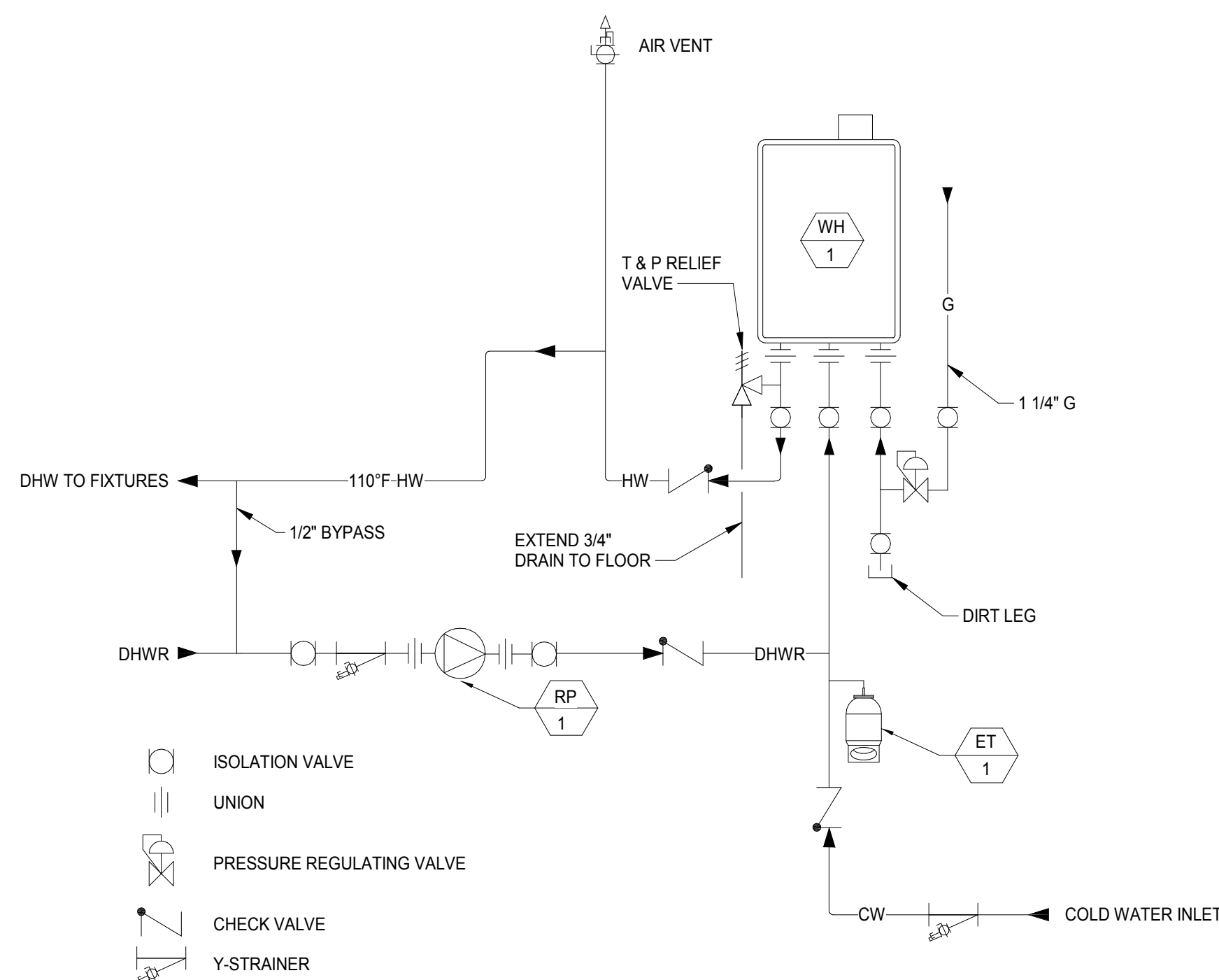


NOTE:
VENT PIPE AND LEAD FLASHING SHALL BE INSTALLED BY THE PLUMBING CONTRACTOR PRIOR TO ROOFING IS APPLIED.
COORDINATE W/ THE GENERAL CONTRACTOR.

5 VENT THRU ROOF DETAIL
P5.1 SCALE: N.T.S.



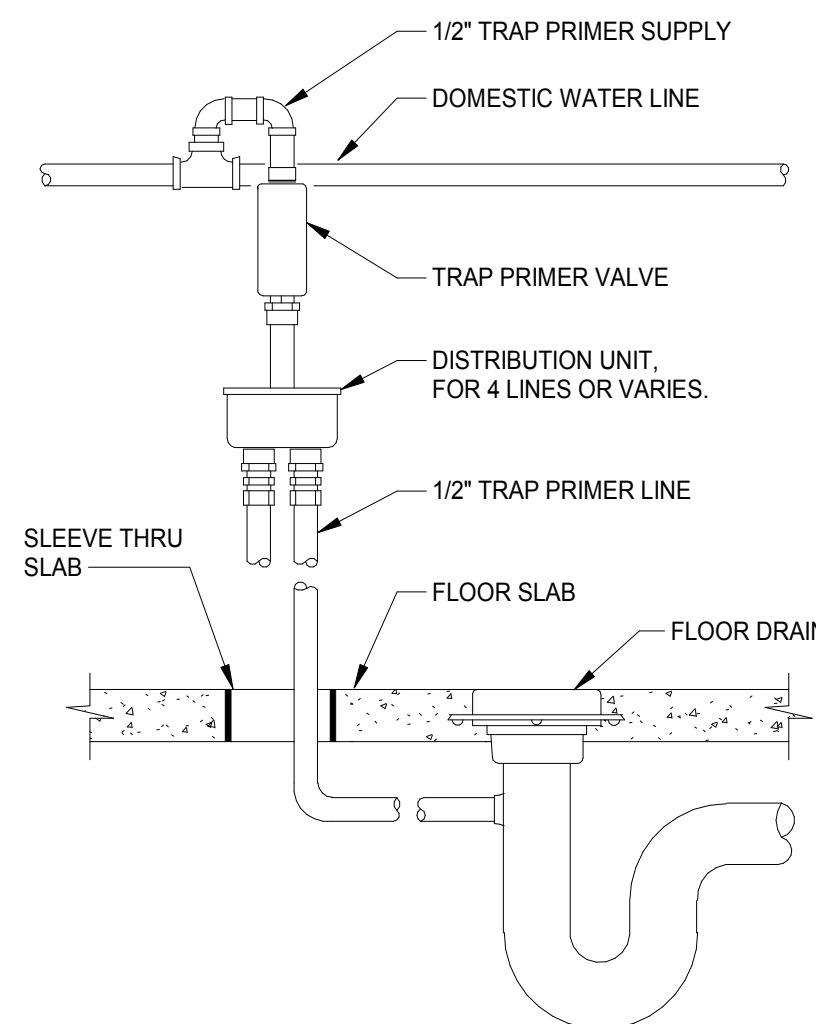
4 HOT WATER RECIRCULATING PUMP DETAIL
P5.1 SCALE: N.T.S.



NOTE:

1. THE AIR VENT IS TO BE INSTALLED AT THE HIGHEST LOCATION OF THE SYSTEM. THE DIAMETER OF THE PIPE LEADING UP THE AIR VENT IS TO BE NO SMALLER THAN THE PIPING THROUGHOUT THE SYSTEM.
2. RECIRCULATION PUMP IS TO BE CONTROLLED BY THE DUAL-SET AQUASTAT WITH TIMER.
3. THE RECIRCULATION PUMP IS TO PROVIDE NO LESS THAN 2 GPM AND NO MORE THAN 3 GPM THROUGH EACH ACTIVATED UNIT IN THE SYSTEM.

7 GAS WATER HEATER DETAIL
P5.1 SCALE: N.T.S.



6 TRAP SEAL PRIMER DETAIL
P5.1 SCALE: N.T.S.

NO.	REVISION	DATE
CHK'D: MLY		
DRAWN: RB		
DESIGNED: RB		
APPR'D: ESA		
DATE: December 6th, 2018		
PROJECT NUMBER		
1821-7001-50		

LANCASTER	FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT	OHIO
PLUMBING DETAILS		

DRAWING NUMBER	P5.1	PLUMBING
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PLUMBING FIXTURE SCHEDULE									
TAG	FIXTURE	DESCRIPTION	ACCEPTABLE MANUFACTURER	SAN/WASTE	VENT	COLD WATER	HOT WATER	REMARKS	
FCO-1	FLOOR CLEANOUT	LACQUERED CAST IRON BODY FLOOR CLEANOUT WITH ADJUSTABLE, HEAVY DUTY STAINLESS STEEL ROUND TOP WITH INTEGRAL PLUG. TOP TO BE ANSI HEAVY DUTY LOAD RATED. CLEANOUTS TO BE LOCATED IN FINISHED FLOOR AREAS.	MIFAB MODEL C1100-XR-3, SMITH, JOSAM, OR ZURN					MATCH SAN PIPE SIZE	
FD-1	FLOOR DRAIN	LACQUERED CAST IRON HEAVY DUTY FLOOR DRAIN WITH 5" ROUND DUCTILE IRON, ADJUSTABLE STRAINER, AND DEEP SUMP BODY COMPLETE WITH SEDIMENT BUCKET.	MIFAB MODEL F1100-5-HG-3-5 OR EQUIVALENT	2"				PROVIDE WITH TRAP PRIMER	
FD-2	FLOOR DRAIN	LACQUERED CAST IRON HEAVY DUTY FLOOR DRAIN WITH 5" ROUND DUCTILE IRON, ADJUSTABLE STRAINER, AND DEEP SUMP BODY COMPLETE WITH SEDIMENT BUCKET.	MIFAB MODEL F1100-5-EF-3-5 OR EQUIVALENT	4"				PROVIDE WITH TRAP PRIMER	
FWD-1	FOOD WASTE DISPOSER	STAINLESS STEEL GRINDING CHAMBER, 1/2 HP / 120V / 1PH / 5.8 AMPS.	INSINKERATOR LC50-11	1-1/2"	1-1/4"			PROVIDE WITH SK-1	
HB-1	WALL HYDRANT	CONCEALED BOX TYPE FREEZELESS WALL HYDRANT, AUTOMATIC DRAINING, ANTI-SIPHON VACUUM BREAKER WITH 3/4" MALE HOSE THREAD, LOOSE TEE KEY, CHROME PLATED EXTERIOR FINISH	WOODFORD MODEL NO. B65; JAY R. SMITH; WADE; JOSAM; ZURN			3/4"		MOUNT HYDRANT 24" ABOVE FINISHED FLOOR / GRADE	
LAV-1	LAVATORY	BOWL - WALL HUNG, VITREOUS CHINA, CONCEALED ARM SUPPORTS. ■ FAUCET - VANDAL RESISTANT ALL BRASS BODY WITH SINGLE INLET AND IN-LINE STRAINER. HARDWIRED 24VAC SOLENOID VALVE (INCLUDE TRANSFORMER) AND MICROPROCESSOR CONTROLLED PROXIMITY SENSORS. PROVIDE THERMOSTAT MIXING VALVE OPTION WITH ASSE 1017 COMPLIANCE. ■ SUPPLIES AND STOPS - LOOSE KEY ANGLE STOPS: 3/8" I.P.S. CHROME PLATED INLET, 3/8" O.D., FLEXIBLE STEEL RISERS, WALL ESCUTCHEON. ■ TRAP - 1-1/4"x1-1/2" CAST BRASS; CHROME PLATED, ADJUSTABLE WITH CLEANOUT PLUG. TUBING TO WALL AND ESCUTCHEON. ■ DRAINS - LAVATORY DRAIN OUTLET FITTING WITH PERFORATED GRID, CHROME PLATED FINISH AND CAST BRASS BODY.	BOWL - SLOAN MODEL SS-3003 ■ FAUCET - SLOAN MODEL ETF600-B-BDT-EL-248-40 ■ SUPPLIES AND STOPS - WOLVERINE BRASS INC. MODEL ENCORE; T&S BRASS ■ TRAP - WOLVERINE BRASS INC.; T&S BRASS ■ DRAINS - WOLVERINE BRASS INC. CATALOG NO. 56096; T&S BRASS	1-1/4"	2"	3/4"	3/4"	ADA COMPLIANT	
MB-1	MOB SINK	BASIN - ONE PIECE MOLDED STONE 24"x24"x10" WITH INTEGRAL STAINLESS STEEL BODY DRAIN, STAINLESS STEEL CAPS ON ALL CURBS, AND WALL GUARDS. ■ FAUCET - CHROME PLATED WITH VACUUM BREAKER, INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT. BODY INLETS 8" CENTER TO CENTER, FOUR ARM HANDLES. ■ HOSE AND HOSE BRACKET - 30" LONG FLEXIBLE, HEAVY DUTY 5/8" RUBBER HOSE, CLOTH REINFORCED WITH 3/4" BRASS COUPLING AT ONE END, 5" LONG BY 3" WIDE BRACKET. 18 GAUGE #302 STAINLESS STEEL WITH RUBBER GRIP. ■ MOP HANGER - 24" LONG BY 3" WIDE STAINLESS STEEL WITH (3) RUBBER TOOL GRIPS.	BASIN - FIAT MODEL MSB-2424 OR MUST, STERN-WILLIAMS, ACORN. ■ FAUCET - FIAT MODEL 830-AA OR CHICAGO FAUCETS, KOHLER, AMERICAN STANDARD, SPEAKMAN, T&S BRASS, CRANE. ■ MOP HANGER - FIAT MODEL 889-CC OR CHICAGO FAUCETS, KOHLER, AMERICAN STANDARD, CRANE, T&S	3"	1-1/2"	3/4"	3/4"		
SK-1	COUNTERTOP SINK	BOWL - ONE (1) 16"x21"x9.5" DEEP BOWL, COUNTERTOP, SELF RIMMING, DROP-IN SINK. TYPE 304 STAINLESS STEEL, DEEP DRAWN, FAUCET HOLES 4" CENTERS ■ FAUCET - TWO HANDLE TOP-MOUNTED KITCHEN FAUCET SHALL FEATURE CAST BRASS CONSTRUCTION WITH ALL BRASS COUPLING NUTS, BRASS FIELD CONVERTIBLE RIGID/SWIVEL SPOUT WITH 5" REACH, 1/4 TURN WASHERLESS CERAMIC DISC VALVE CARTRIDGES ■ SUPPLIES AND STOPS-LOOSE KEY ANGLE STOP, 3/8"IPS, CHROME PLATED INLET, 3/8" O.D. FLEXIBLE RISER, WALL ESCUTCHEON.	BOWL - EAGLE MODEL FDI-14-16-9-5-1 ■ FAUCET - AMERICAN STANDARD MODEL 6405.171. ■ SUPPLES AND STOPS - WOLVERINE BRASS INC. MODEL ENCORE	1-1/2"	1-1/4"	3/4"	3/4"		
WC-1	WATER CLOSET	BOWL - WHITE VITREOUS CHINA, ELONGATED, FLOOR MOUNTED, FLOOR OUTLET, SIPHON JET, 1-1/2" TOP SPOUT, 2-1/8" TRAPWAY, CLOSET BOLTS AND CAPS, LOW WATER CONSUMPTION (1.28 GPM). ■ FLUSH VALVE - EXPOSED, HARDWIRED (INCLUDE TRANSFORMER), SENSOR OPERATED FLUSH VALVE, SELF-CLEANING PISTON VALVE WITH MANUAL OVERRIDE. CAST BRASS VALVE BODY AND METAL COVER WITH CHROME FINISH, VANDAL RESISTANT STOP CAP, ANGLE STOP WITH BACK-FLOW PROTECTION AND VACUUM BREAKER. LOWER WATER CONSUMPTION (1.28 GPM). ■ SEAT - WHITE HIGH IMPACT, EXTRA HEAVY SOLID PLASTIC, ELONGATED, CHEMICAL RESISTANT, OPEN FRONT (LESS COVER), MODEL-IN SURFACE CHECK AND STAINLESS STEEL HINGE POSTS. ■ CARRIER - BOLTED TYPE CLOSET FITTING, ADJUSTABLE SHORT FOOT WITH BEARING PLATE, SIZE AND TYPE AS REQUIRED.	TOILET SYSTEM - SLOAN WETS-2020.1401, INCLUDE TRANSFORMER FOR HARDWIRE. ■ SEAT - AMERICAN STANDARD MODEL 5901.110T OR EQUIVALENT.	4"	2"	1"		ADA COMPLIANT	
WCO-1	WALL CLEANOUT	CAST BRONZE CLEANOUT PLUG WITH 8" ROUND, SMOOTH, STAINLESS STEEL ACCESS COVER.	MIFAB MODEL C1436	4"				MATCH SAN PIPE SIZE	
WM	WATER METER					2"			

BACKFLOW PREVENTER VALVE SCHEDULE			
TAG	DESCRIPTION	MANUFACTURER	COMMENTS
BFP-1	BACKFLOW PREVENTER - CONFORMING TO ASSE 1022. 3/8" INLET AND OUTLET SIZE WITH 1/8" VENT.	ZURN WILKENS MODEL 740 OR EQUIVALENT	CONNECT 3/4" DCW TO 3/8" 1/8" DISCHARGE PIPE FROM VENT PORT TO THE NEAREST FD IN ATTIC SPACE.
PRV-1	PRESSURE REDUCING VALVE - 1 1/2" INLET WITH LEAD-FREE.	ZURN WILKENS MODEL 500XLC OR EQUIVALENT	110 PSI INLET PRESSURE TO 65 PSI OUTLET PRESSURE @ 60 GPM
RPZ-1	REDUCED PRESSURE PRINCIPLE BACKFLOW PREVENTER - MAIN BODY AND ACCESS COVER SHALL BE EPOXY COATED DUCTILE IRON (ASTM A 536 GRADE 4). THE SEAT RING AND CHECK VALVE SHALL BE NORYL, THE STEM SHALL BE STAINLESS STEEL (ASTM A 276) AND THE SEAT DISC ELASTOMERS SHALL BE EPDM.	ZURN WILKENS MODEL 375 OR EQUIVALENT	11 PSI LOSS @ 60 GPM

PLUMBING EQUIPMENT SCHEDULE											
TAG	DESCRIPTION	BASIS OF DESIGN	MODEL	MOTOR HP	RPM	VOLT.	PHASE CYCLE	SYSTEM HEAD	FLOW	REMARKS	
CB-1	CATCH BASIN: PROVIDE 18" DIAMETER X 30" DEEP CATCH BASIN WITH TOP DISCHARGE ASSEMBLY WITH BASIN, SIMPLEX SP-1, FLOAT CONTROLS AND NO. 17-0135 SLOTTED COVER.	ZOELLER	31-0444							30 GALLON CAPACITY	
DET-1	DOMESTIC EXPANSION TANK: 2 GALLON TANK FOR 0.74 GALLON OF REQUIRED TANK VOLUME WITH 0.2 GALLON OF REQUIRED ACCEPTANCE VOLUME. NSF 61 CERTIFIED	BELL & GOSSETT	PTA-5							3/4" INLET	
RP-1	RECIRCULATION PUMP: PUMP BODY SHALL BE LEAD-FREE BRONZE CONSTRUCTION, STAINLESS STEEL FACE PLATE, POLY-PHENYLENE SULFIDE IMPELLER, AISI 420 STAINLESS STEEL SHAFT, CARBON ON SILICON CARBIDE MECHANICAL FACES. THE MOTOR SHALL BE NON-OVERLOADING AT ANY POINT ON THE PUMP PERFORMANCE CURVE, DRIP PROOF, CARBON SLEEVE SEALED PRECISION BEARING. THE PERMANENT SPLIT CAPACITOR MOTOR SHALL BE EQUIPPED WITH THERMAL OVERLOAD PROTECTION. PROVIDE STARTER/DISCONNECT FOR THE CIRCULATION PUMP.	BELL & GOSSETT	ECOCIRC XL 20-35	1/12	1800	115	1	5 FT	1 GPM	3/4" DHWR INLET AND OUTLET	
SP-1	SUMP PUMP: DURABLE, CAST IRON CONSTRUCTION WITH POWDER COATED EPOXY FINISH WITH ALL STAINLESS STEEL FITTINGS.	ZOELLER	940-0012	4/10	3450	115	1	15 FT	50 GPM	PROVIDE OIL SMART SIMPLEX CONTROL PANEL IN 105 JANITOR ROOM.	
TP-1	TRAP PRIMER: AUTOMATIC PRESSURE DROP ACTIVATED WITH DU-U DISTRIBUTION.	PPP	P1-500							1/2" INLET	
WH-1	TANKLESS CONDENSING HIGH EFFICIENCY COMMERCIAL GAS WATER HEATER: INDOOR MODEL WITH INTEGRATED TEMPERATURE CONTROLLER. 3" CONCENTRIC VENT AND FLUE TERMINATION. 199,000 BTU/H MAXIMUM GAS CONSUMPTION INPUT. PROVIDE DISCONNECT AT THE WATER HEATER.	AO SMITH	ACT-199I-N			120	1		10 GPM	PROVIDE CONDENSATE DRAIN WITH MANUFACTURER PROVIDED NEUTRALIZER KIT.	
WHA-1	WATER HAMMER ARRESTOR: ASSE 1010 APPROVED. 12 TO 32 CROSS FIXTURE UNIT RATING.	WATTS	LF15M2-B							3/4" INLET	

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STATE OF OHIO
ERIC S. ACKER
E-72803
REGISTERED PROFESSIONAL ENGINEER

Eric S. Ackers

DRAWING NUMBER

P6.1

PLUMBING

LANCASTER

FAIRFIELD COUNTY AUDITOR'S OFFICE
REAL ESTATE DEPARTMENT

EQUIPMENT & FIXTURE SCHEDULES

OHIO

DRAWN: KB
DESIGNED: KB
APPROVD: ESA
DATE: December 6th, 2018
PROJECT NUMBER
1821-7001-50

NO.

REVISION

DATE

SYMBOLS



THERMOSTAT

TEMPERATURE SENSOR

EQUIPMENT TYPE (SEE ABBREVIATIONS)

SCHEDULE #

SECTION REFERENCE NUMBER

DRAWING WHERE SECTION WAS CUT, OR
DRAWING TO SEE FOR SECTION

HVAC BASIS OF DESIGN	
SUMMER	
OUTDOOR	90°F DB, 74°F WB
INDOOR	75°F DB, 63°F WB
WINTER	
OUTDOOR	1°F DB
INDOOR	70°F DB

ABBREVIATIONS

ACCU	AIR COOLED CONDENSING UNIT	ID	IDENTIFICATION
ACS	ABOVE CEILING SPACE	IE	INVERT ELEVATION
ADJ	ADJUSTABLE	IH	INTAKE HOOD
AFI	ABOVE FINISHED FLOOR	IS	IN JOIST SPACE
AHU	AIR HANDLING UNIT	IN	INCHES
AMPS	AMPERES	IRTH	INFRARED TUBE HEATER
APD	AIR PRESSURE DROP	IWS	IN WALL SPACE
ATC	AUTOMATIC TEMPERATURE CONTROL	L	LOUVER
ASC	ABOVE SUSPENDED CEILING	LAT	LEAVING AIR TEMPERATURE
AVG	AVERAGE	LBS/LB	POUNDS OR POUND
BFP	BACKFLOW PREVENTER	LDB	LEAVING DRY BULB
BHP	BRAKE HORSE POWER	LEC	LAB EQUIPMENT CONTRACTOR
BL	BELOW	LWB	LEAVING WET BULB
BLDG	BUILDING	MAU	MAKE-UP AIR UNIT
BOD	BOTTOM OF DUCT	MAX	MAXIMUM
BOP	BOTTOM OF PIPE	MB	MOP BASIN
BSMT	BASEMENT	MBH	1000 BRITISH THERMAL UNITS PER HOUR
BTM	BOTTOM	MC	MECHANICAL CONTRACTOR
CAP	CAPACITY	MD	MOTORIZED DAMPER
CC	COOLING COIL	MECH	MECHANICAL
CENT	CENTRIFUGAL	MFR	MANUFACTURER
CFM	CUBIC FEET PER MINUTE	MIN	MINIMUM
CHW	CHILLED WATER	MTD	MOUNTED
CLG	CEILING	MTG	MOUNTING
CND	CONDENSATE	NA	NOT APPLICABLE
CO	COMPANY	NC	NORMALLY CLOSED
CONC	CONCRETE	NO	NUMBER OR NORMALLY OPEN
CONN	CONNECT	NTS	NOT TO SCALE
CONST	CONSTANT	OA	OUTSIDE AIR
CONTR	CONTRACTOR	OS&Y	OUTSIDE SCREW & YOKE
CP	CIRCULATING PUMP	PC	PLUMBING CONTRACTOR
CTW	CLOSE TO WALL	PD	PRESSURE DROP
CU	CONDENSING UNIT	PH	PHASE
D	DRAIN	PLBG	PLUMBING
DB	DRY BULB	PRESS	PRESSURE
DEG	DEGREE	PSI	POUNDS PER SQUARE INCH
DIA	DIAMETER	RA	RETURN AIR
DISCH	DISCHARGE	REQ'D	REQUIRED
DN	DOWN	RF	RELIEF AIR FAN
DSP	DUCT STATIC PRESSURE	RG	RETURN GRILLE / REFRIGERANT GAS
EA	EXHAUST AIR	RH	RELIEF AIR HOOD
EAT	ENTERING AIR TEMPERATURE	RL	REFRIGERANT LIQUID
EDB	ENTERING DRY BULB	RM	ROOM
EF	EXHAUST FAN	RPM	REVOLUTIONS PER MINUTE
EFF	EFFICIENCY	RND	ROUND
EG	EXHAUST GRILLE	RTU	ROOF TOP UNIT
EL	ELEVATION	S	SMOKE DAMPER
ELECT	ELECTRICAL	SA	SUPPLY AIR
ESP	EXTERNAL STATIC PRESSURE	SD	SUPPLY DIFFUSER
ET	EXPANSION TANK	SENS	SENSIBLE
EWB	ENTERING WET BULB	SG	SUPPLY GRILLE
EX	EXIST/EXISTING	SHT MTL	SHEET METAL
EXH	EXHAUST	SP	STATIC PRESSURE
F	FURNACE	SQFT	SQUARE FEET
FD	FIRE DAMPER	SS	STAINLESS STEEL
FFA	FROM FLOOR ABOVE	ST	STORAGE TANK
FFB	FROM FLOOR BELOW	STAT	THERMOSTAT
FIN	FINISHED	STD	STANDARD
FLEX	FLEXIBLE	STRUCT	STRUCTURAL
FLR	FLOOR	SW	SINGLE WALL
FPM	FEET PER MINUTE	SYST	SYSTEM
FRL	FILTER/REGULATOR/LUBRICATOR	TCP	TEMPERATURE CONTROL PANEL
F/S	FIRE/SMOKE	TEMP	TEMPERATURE
FT	FEET	TFA	TO FLOOR ABOVE
FTHD	FEET OF HEAD	TFB	TO FLOOR BELOW
G	NATURAL GAS	THERM	THERMOMETER
GA	GAUGE	THRD	THREADED
GAL	GALLON	THRU	THROUGH
GALV	GALVANIZED	TSP	TOTAL STATIC PRESSURE
GC	GENERAL CONTRACTOR	TYP	TYPICAL
GEN	GENERAL	UG	UNDER GROUND
GPM	GALLONS PER MINUTE	W/	WITH
GUH	GAS UNIT HEATER	WC	WATER COLUMN
GWR	GLYCOL WATER RETURN	WH	WATER HEATER
GWS	GLYCOL WATER SUPPLY	WLSN	WALL LOUVER W/ SCREEN
HC	HEATING COIL	WO	WALL OPENING
HHW	HEATING HOT WATER	WPD	WATER PRESSURE DROP
HORIZ	HORIZONTAL	WTD	WATER TEMPERATURE DIFFERENCE
HP	HORSE POWER	WT	WATER
HR	HOUR		
HTG	HEATING		
HTR	HEATER		
HVAC	HEATING, VENTILATING & AIR CONDITIONING		

GENERAL NOTES

- ALL MECHANICAL WORK SHALL BE IN ACCORDANCE WITH OHIO MECHANICAL CODE, LATEST APPLICABLE EDITION, AND AS SPECIFIED (WHICHEVER IS MORE STRINGENT).
- IF NON-DESIGN BASE EQUIPMENT IS SELECTED, THIS CONTRACTOR SHALL BEAR ANY ADDITIONAL COSTS FOR MODIFICATION TO THE PROPOSED BUILDING SYSTEM CAUSED BY SELECTION OF THE NON-DESIGN BASE EQUIPMENT. DEVIATIONS FROM BASIS OF DESIGN THAT AFFECT OTHER TRADES ARE THE RESPONSIBILITY OF THIS CONTRACTOR. ADDITIONAL COSTS TO PROVIDE LARGER ELECTRICAL CIRCUITS, MORE FLOOR SPACE, ADDITIONAL SUPPORTS, ADDITIONAL MATERIALS, ETC. SHALL BE BORNE BY THIS CONTRACTOR. COORDINATE ALL WORK WITH OTHER TRADES.
- DO NOT SCALE DRAWINGS FOR DIMENSIONS. REFER TO DIMENSIONED DRAWINGS. IF DIMENSIONS CANNOT BE ACCURATELY DETERMINED, REQUEST THE INFORMATION FROM THE ARCHITECT/ENGINEER.
- KEY NOTES ARE MEANT AS A GENERAL GUIDE FOR TYPICAL LOCATIONS. CONTRACTOR TO PERFORM FULL EXTENT OF WORK REQUIRED TO ACCOMPLISH DESIGN INTENT.
- CONTRACTOR IS RESPONSIBLE FOR ALL WORK IDENTIFIED ON ALL DRAWINGS AND INFORMATION IN THE PROJECT MANUAL, AS A COMPLETE PROJECT. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE SPECIFIC SCOPE OF WORK FOR ANY SUBCONTRACTORS FOR THIS PROJECT EXCEPT AS SPECIFICALLY NOTED.
- ALL DUCTS IN FINISHED ROOMS AND SPACES SHALL BE CONCEALED IN CHASES OR ABOVE THE CEILINGS, UNLESS OTHERWISE NOTED.
- ALL LISTED DUCTWORK DIMENSIONS ARE CLEAR AIR FLOW DIMENSIONS.
- COORDINATE WORK WITH OTHER TRADES.
- MAXIMUM LENGTH OF FLEX DUCT SHALL BE 5'-0". FLEX DUCT SHALL NOT BE USED WHERE DUCTWORK IS EXPOSED.
- DUCT AND PIPING LAYOUTS ARE SCHEMATIC IN NATURE. FIELD VERIFY LOCATION OF BEAMS, GENERAL STRUCTURE, LIGHTING, PIPING, ETC., BEFORE FABRICATION AND INSTALLATION OF DUCTWORK COORDINATE ELEVATIONS, OFFSETS, AND TRANSITIONS AS REQUIRED.
- CONNECTION TO EQUIPMENT SHALL CONFORM TO MANUFACTURER'S SPECIFICATION.
- ALL HANGER SYSTEMS FOR PIPING AND EQUIPMENT SHALL BE SECURED TO BUILDING STRUCTURAL SYSTEM. CONTRACTORS SHALL COORDINATE HANGERS CONNECTED TO STEEL JOISTS TO ENSURE HANGERS ARE ATTACHED AT JOIST PANEL POINTS.
- CONTRACTOR SHALL PROVIDE ACCESS DOORS IN ALL WALLS AND CEILINGS WHERE SERVICE OR ADJUSTMENT TO MECHANICAL OR PLUMBING ITEMS MAY BE REQUIRED. ACCESS DOORS SHALL BE OF AN APPROPRIATE SIZE REQUIRED FOR EACH APPLICATION. WHERE APPLICABLE, ACCESS DOORS SHALL MATCH THE FIRE RATING OF THE WALL ASSEMBLY.
- VOLUME DAMPERS SHALL BE INSTALLED IN ALL BRANCH DUCT.
- THE ELBOWS FOR DUCTWORK SHALL HAVE TURNING VANES UNLESS NOTED OTHERWISE.
- ALL HVAC CONTROL WIRING AND CONDUIT SHALL BE PROVIDED BY DIVISION 23 CONTRACTOR UNLESS OTHERWISE NOTED. EXPOSED CONTROL WIRING SHALL BE IN CONDUIT. USE THE PLENUM RATED CABLE FOR CABLES NOT IN CONDUIT.
- REFER TO ARCHITECTURAL REFLECTED CEILING PLAN FOR ALL AIR DEVICE LOCATIONS.
- ALL MECHANICAL EQUIPMENT REQUIRING NATURAL GAS SHALL BE FURNISHED WITH PRESSURE REGULATOR. THE GAS PRESSURE REGULATOR SHALL REGULATE THE GAS PRESSURE BETWEEN THE INLET AND OPERATING PRESSURE OF THE EQUIPMENT. PROVIDE VENT TO OUTDOOR FROM EACH REGULATOR.
- ALL STRUCTURAL OPENINGS SHALL BE COORDINATED WITH THE STRUCTURAL DRAWING. COORDINATE ANY STRUCTURAL SUPPORTS FOR OPENINGS WITH STRUCTURAL TRADES.
- HVAC EQUIPMENT SHALL BE CONNECTED TO A BUILDING MANAGEMENT SYSTEM. REFER TO X DRAWINGS FOR CONNECTION DETAILS.
- ALL EXPOSED DUCTWORK AND PIPING SHALL BE PAINTED PER DIVISION 9 SPECIFICATIONS.

GENERAL MECHANICAL NOTES

- COORDINATE ALL WORK WITH OTHER TRADES AND EXISTING WORK TO PERMIT ACCESS AND SERVICE CLEARANCES TO ALL SYSTEMS. COORDINATE DUCT WITH ELECTRICAL J-BOXES TO PREVENT OBSTRUCTIONS.
- REFER TO DETAIL SHEETS FOR ADDITIONAL INFORMATION ON INSTALLMENT METHODS.

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STATE OF OHIO
ERIC S. ACKER
E-72803
REGISTERED PROFESSIONAL ENGINEER

Eric S. Ackers

LANCASTER

OHIO

FAIRFIELD COUNTY AUDITOR'S OFFICE
REAL ESTATE DEPARTMENT

GENERAL NOTES, SYMBOLS, AND ABBREVIATIONS

DRAWING NUMBER

M0.1

MECHANICAL

DRAWN: KB

DESIGNED: KB

APPROVD: ESA

DATE: December 6th, 2018

PROJECT NUMBER

1821-7001-50

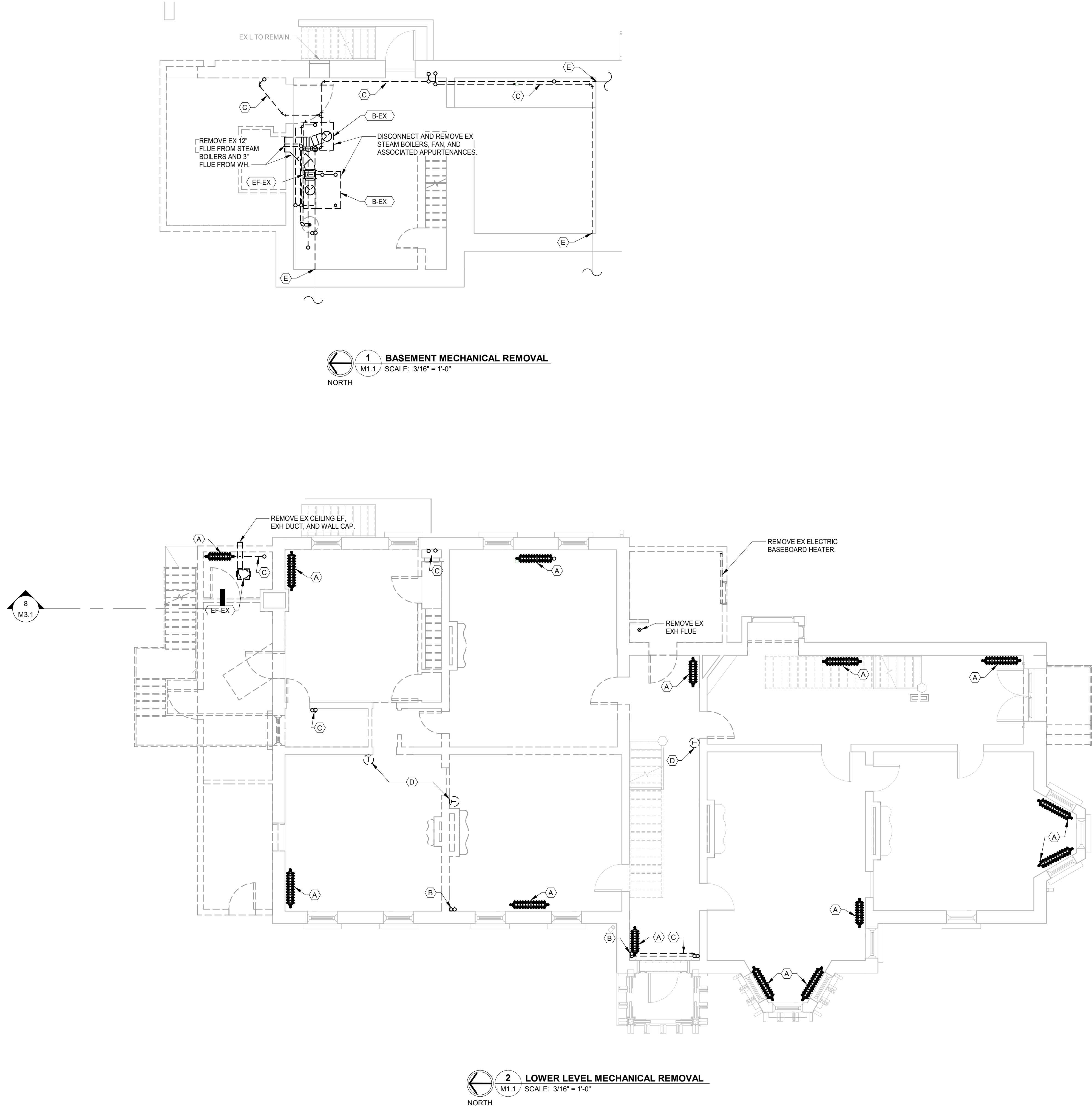
DATE

REVISION

NO.

CHK'D: MLV

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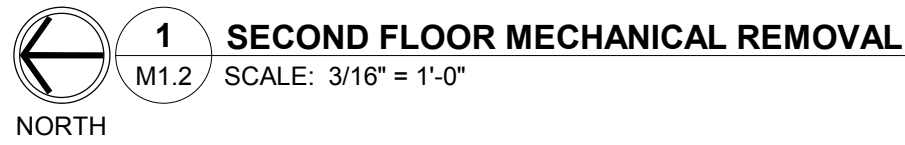


M1.1 CODED NOTES

- A REMOVE EX STEAM RADIATOR. SAW CUT STEAM PIPING TO EX FLOOR LEVEL AND CAP.
- B REMOVE EXPOSED VERTICAL PIPE RISER. SAW CUT STEAM PIPING TO EX FLOOR LEVEL AND CAP.
- C REMOVE STEAM PIPING.
- D REMOVE EX THERMOSTAT. PATCH AND REPAIR ANY WALL OPENINGS.
- E SAW CUT STEAM PIPING TO EX WALL AND CAP.



DRAWING NUMBER	LANCASTER	OHIO	DATE	REVISION	NO.
M1.1	FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT	1821-7001-50			
MECHANICAL	BASEMENT & FIRST FLOOR MECHANICAL REMOVAL				

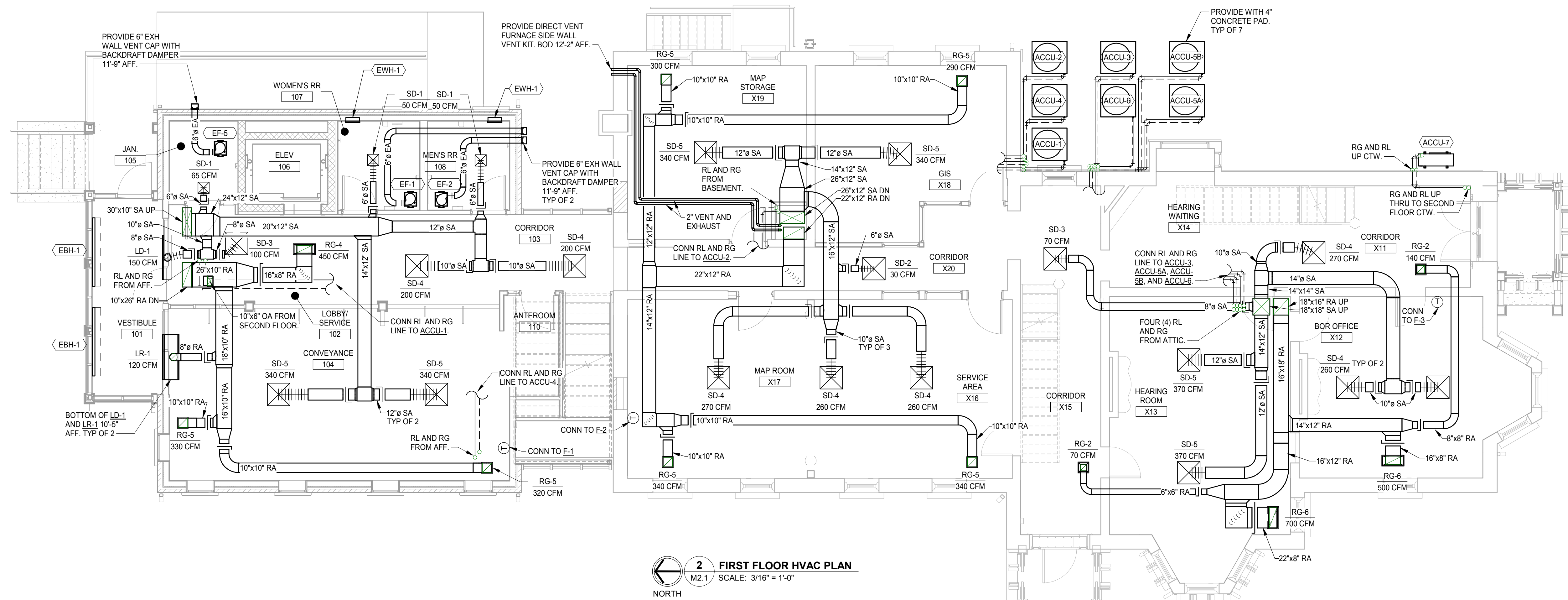


- A REMOVE EX STEAM RADIATOR. REMOVE ANY EXPOSED STEAM PIPING. SAW CUT STEAM PIPING TO EX FLOOR LEVEL AND CAP.
- B REMOVE STEAM AND CONDENSATION PIPING.
- C REMOVE EX WINDOW MOUNTED AC.

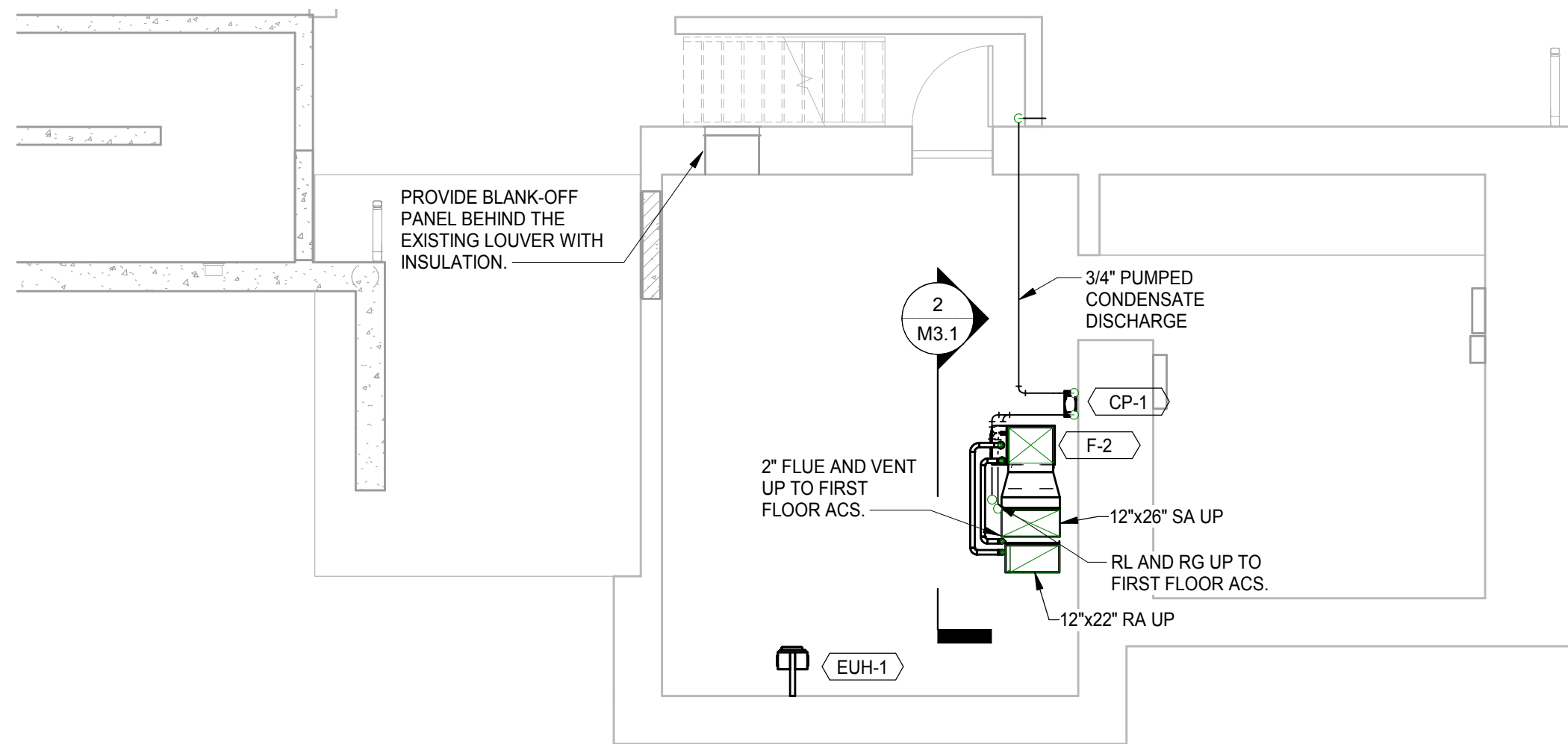


LANCASTER	OHIO
FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT	
SECOND FLOOR MECHANICAL REMOVAL	

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2 FIRST FLOOR HVAC PLAN
M2.1 SCALE: 3/16" = 1'-0"
NORTH



1 BASEMENT HVAC PLAN
M2.1 SCALE: 3/16" = 1'-0"
NORTH



DRAWING NUMBER	PROJECT NUMBER	DATE	REVISION	NO.	DATE
M2.1	1821-7001-50	December 6th, 2018			
MECHANICAL					

LANCASTER

FAIRFIELD COUNTY AUDITOR'S OFFICE
REAL ESTATE DEPARTMENT

BASEMENT & FIRST FLOOR HVAC PLAN

DRAWN: KB

DESIGNED: KB

APPROVED: ESA

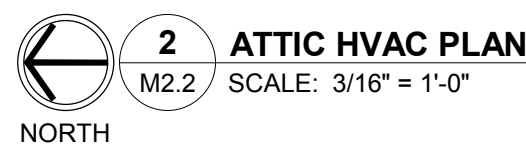
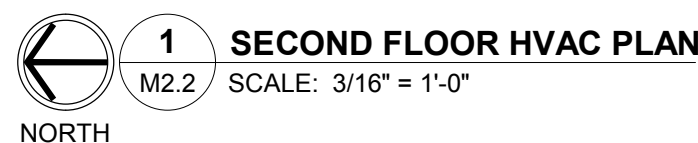
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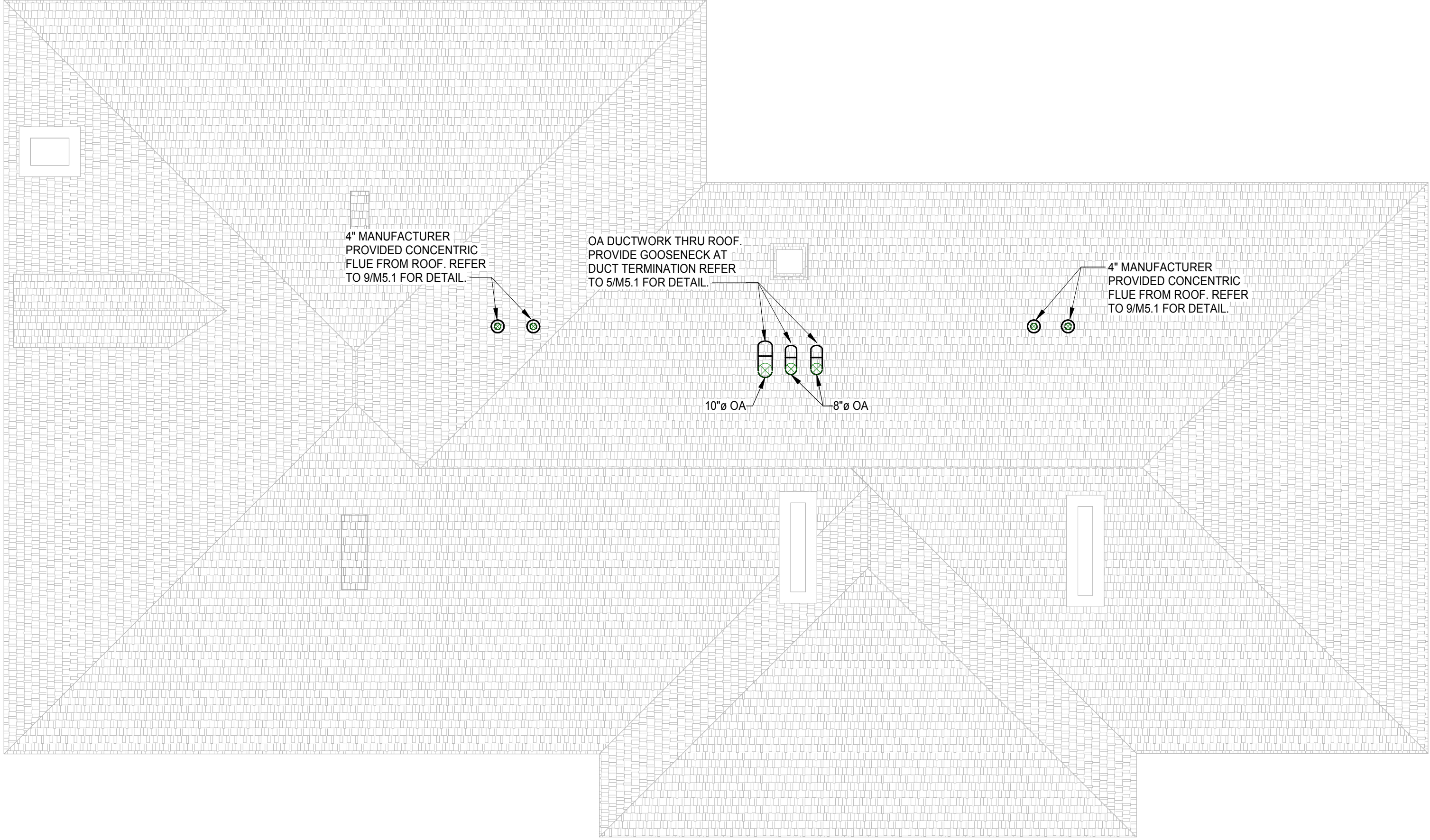
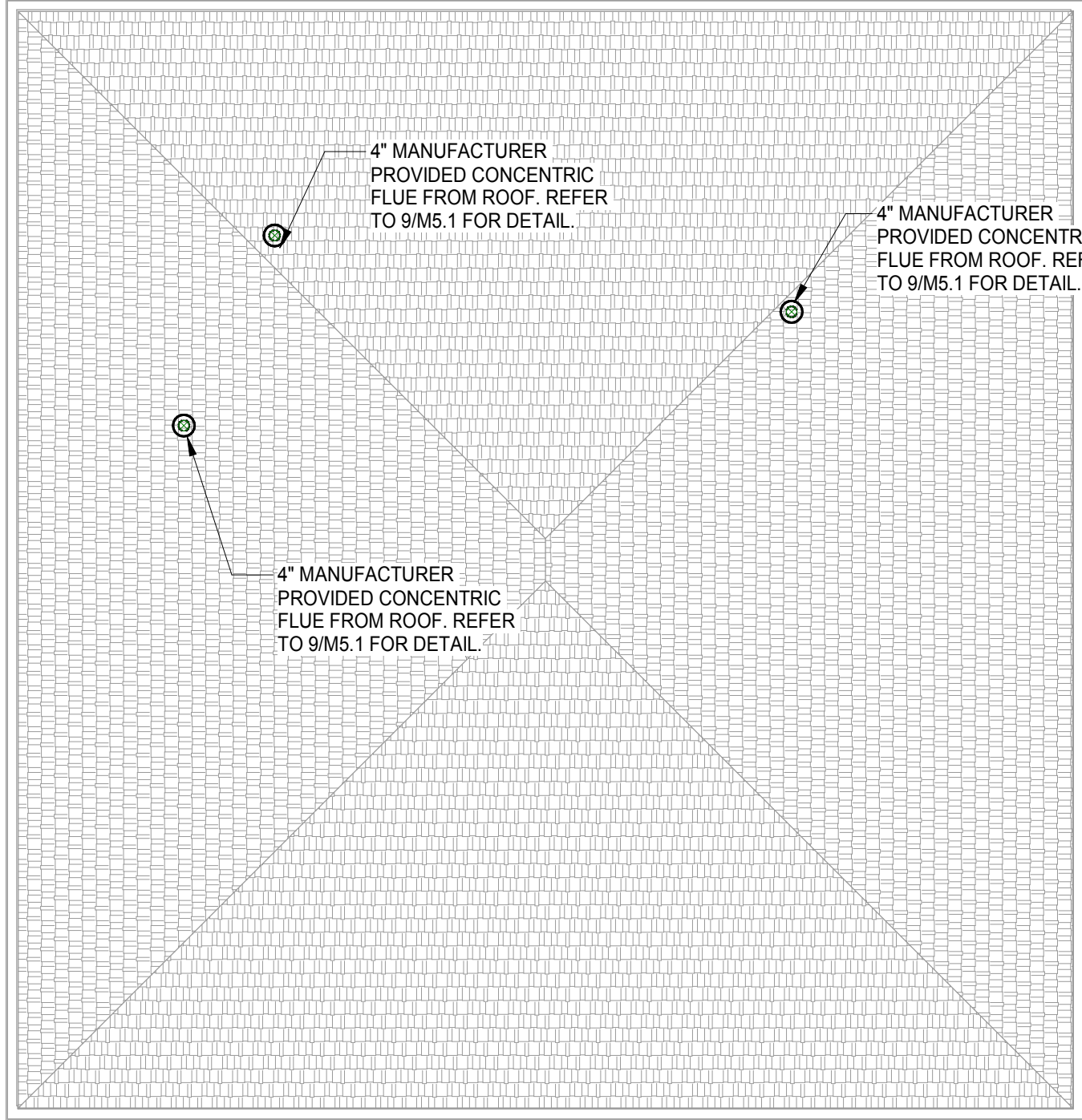
PROJECT NUMBER


OHIO

CHK'D: MLV

1821-7001-50





 **1** **ROOF HVAC PLAN**
M2.3 SCALE: 3/16" = 1'-0"

DRAWING NUMBER

M2.3

MECHANICAL

LANCASTER

FAIRFIELD COUNTY AUDITOR'S OFFICE
REAL ESTATE DEPARTMENT

ROOF HVAC PLAN

OHIO

DRAWN: KB CHK'D: MLV

DESIGNED: KB

APPROV'D: ESA

DATE: December 6th, 2018

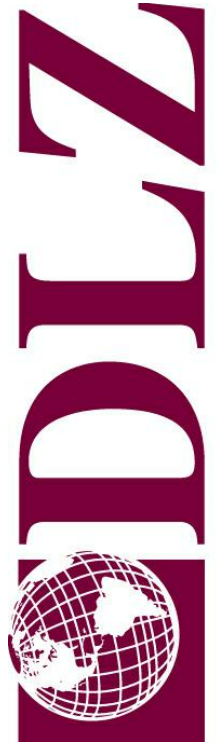
PROJECT NUMBER

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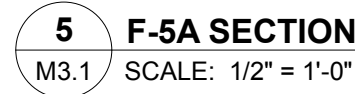
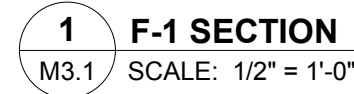
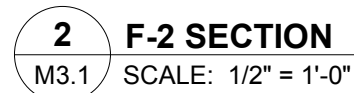
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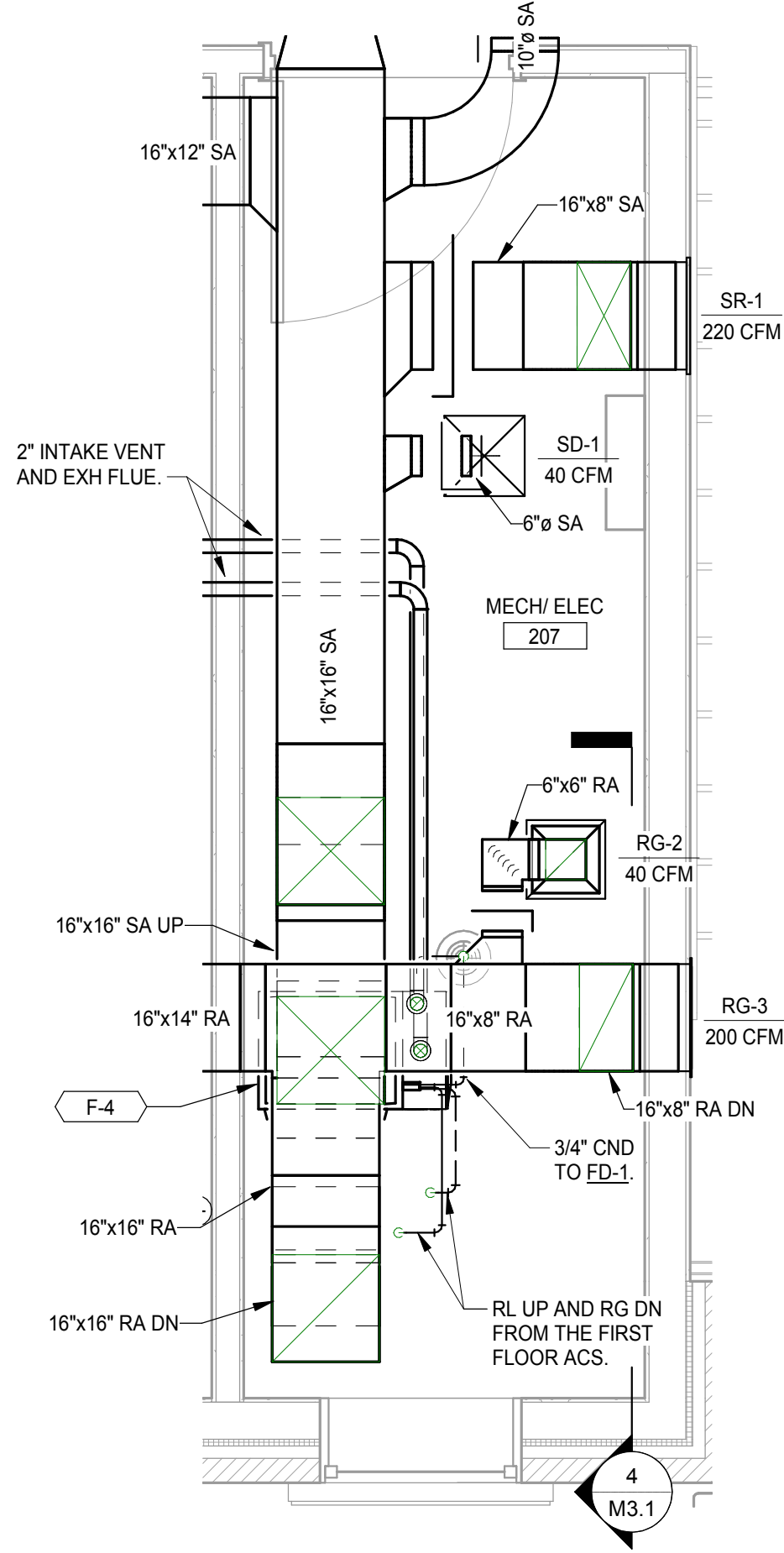
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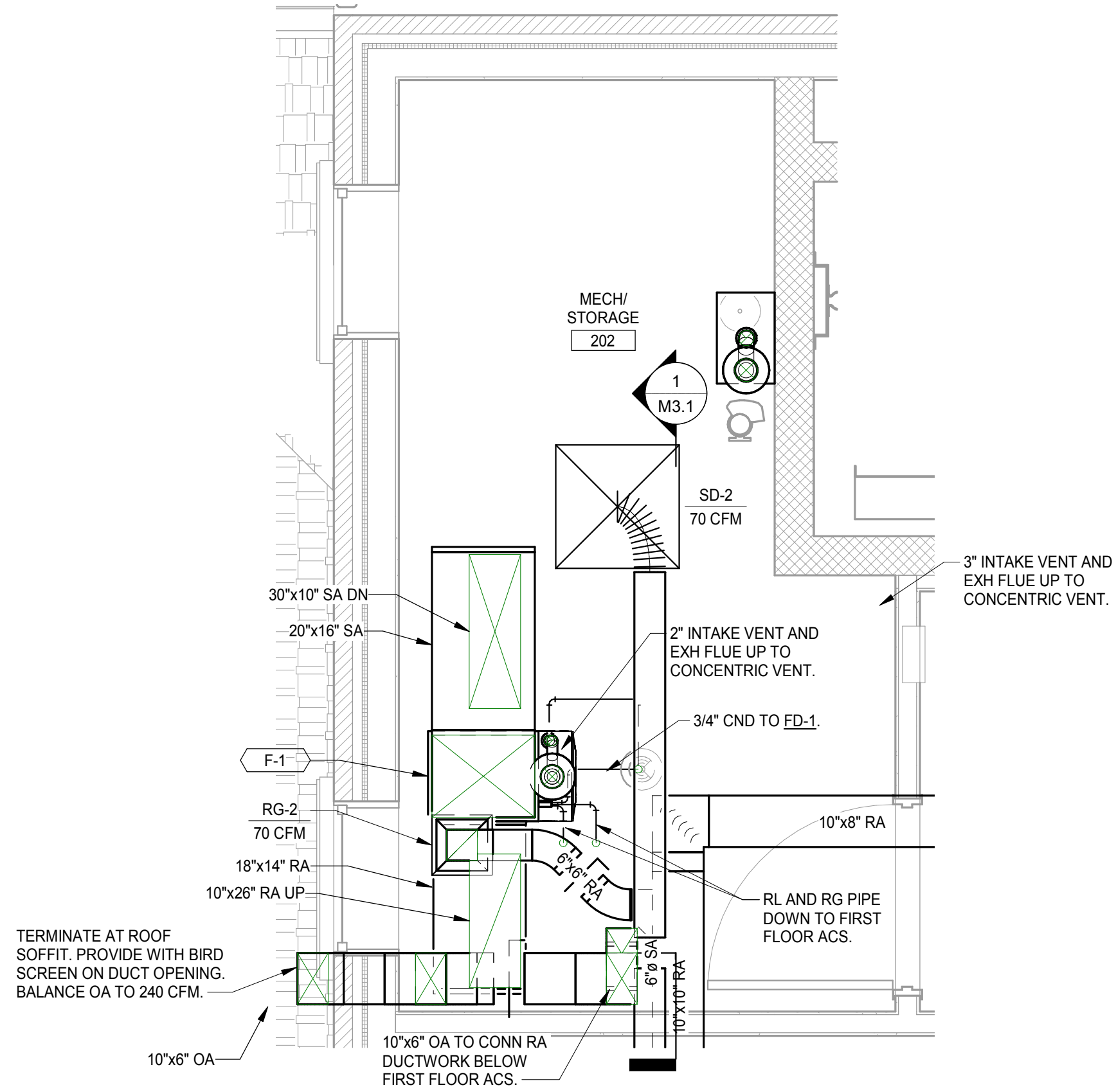
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NO.	REVISION	DATE
DRAWN: KB	CHKD: MLV	
DESIGNED: KB		
APPR'D: ESA		
DATE: December 6th, 2018		
PROJECT NUMBER		
1821 - 7001 - 50		



2 207 MECH/ELEC/STORAGE ENLARGED PLAN
M4.1 SCALE: 1/2" = 1'-0"



1 202 MECH/STORAGE ENLARGED PLAN
M4.1 SCALE: 1/2" = 1'-0"

DRAWING NUMBER

M4.1

MECHANICAL

LANCASTER

FAIRFIELD COUNTY AUDITOR'S OFFICE
REAL ESTATE DEPARTMENT

MECHANICAL ENLARGED PLANS

OHIO

DRAWN: KB

DESIGNED: KB

APPROVED: ESA

DATE: December 6th, 2018

PROJECT NUMBER

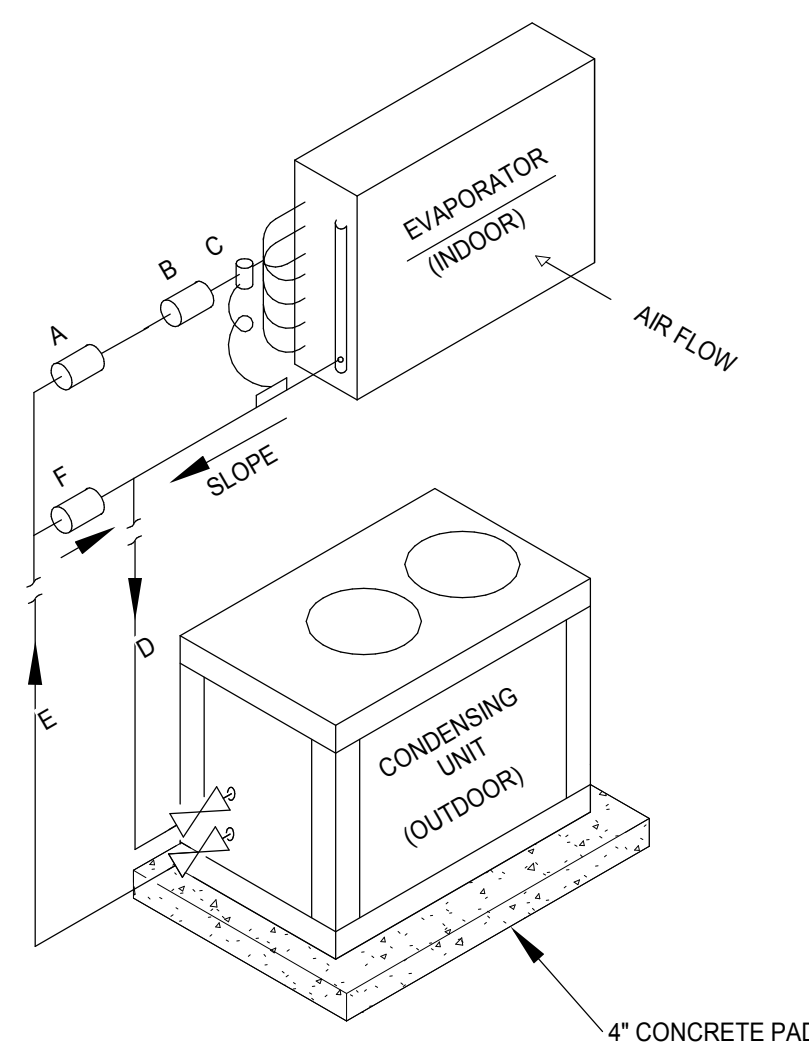
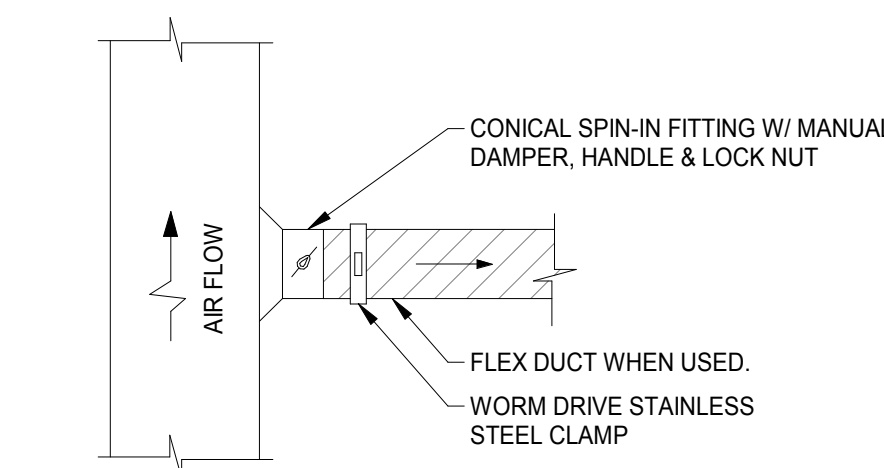
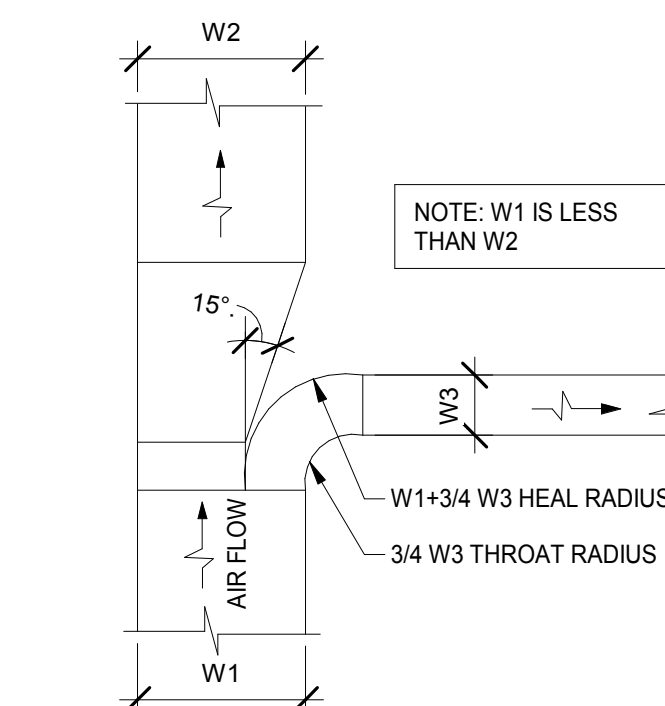
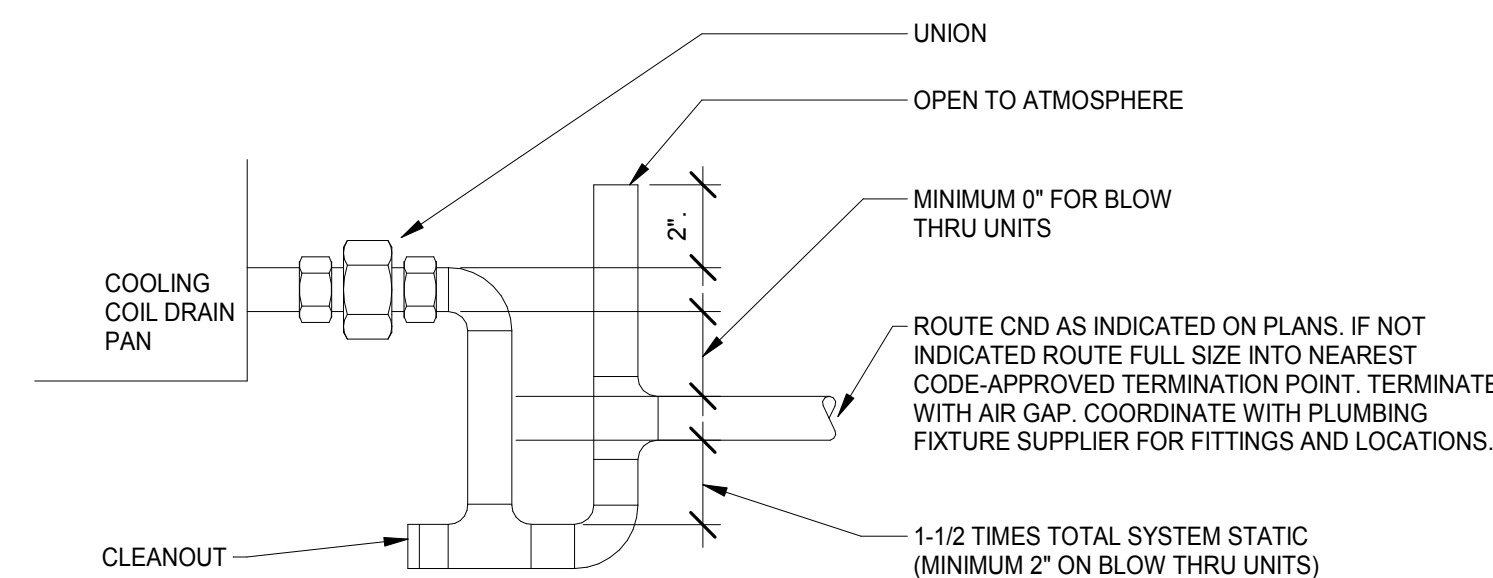
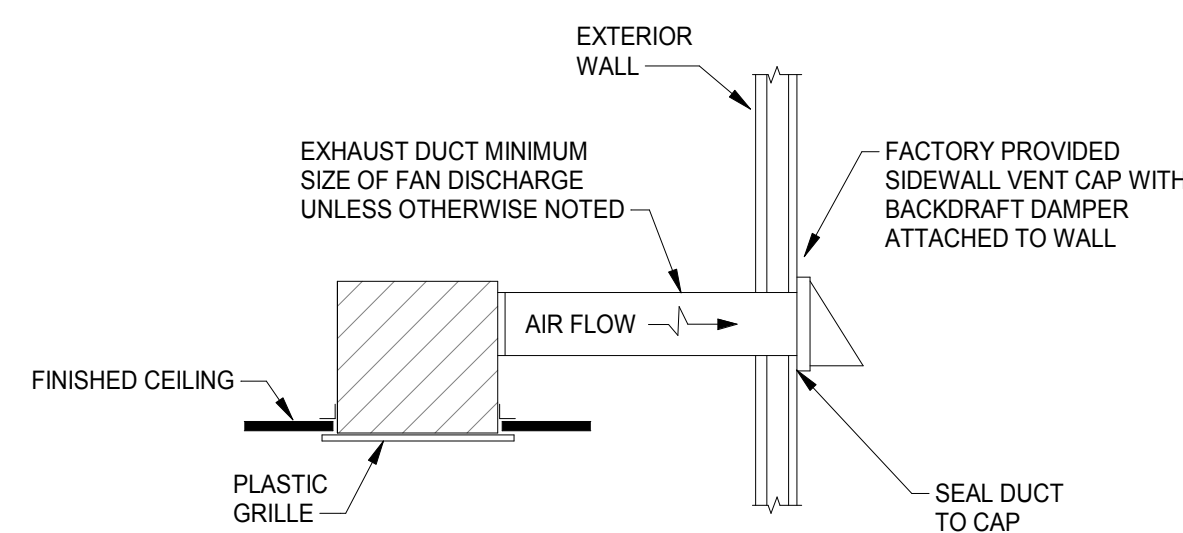
1821-7001-50

NO.

REVISION

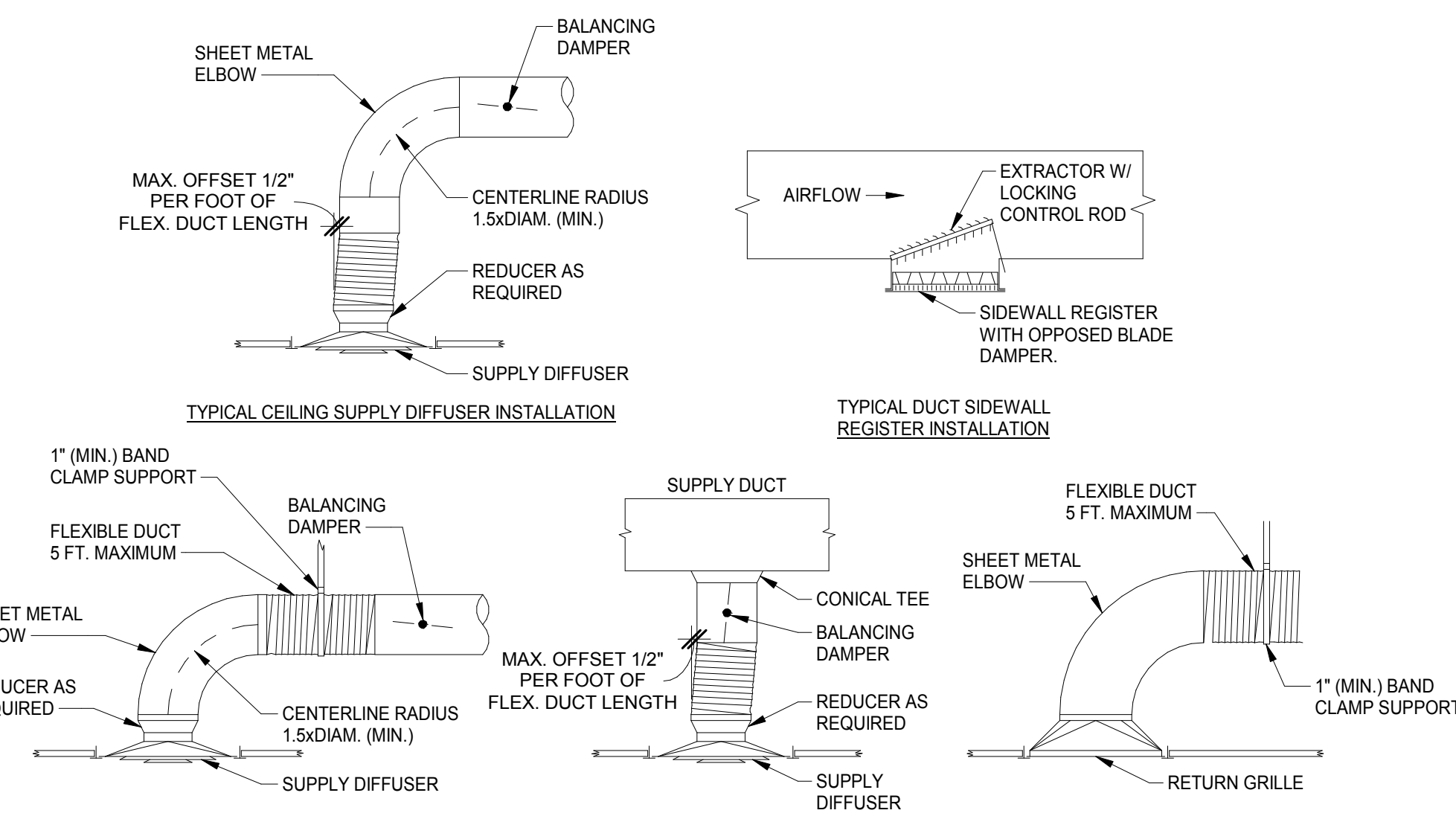
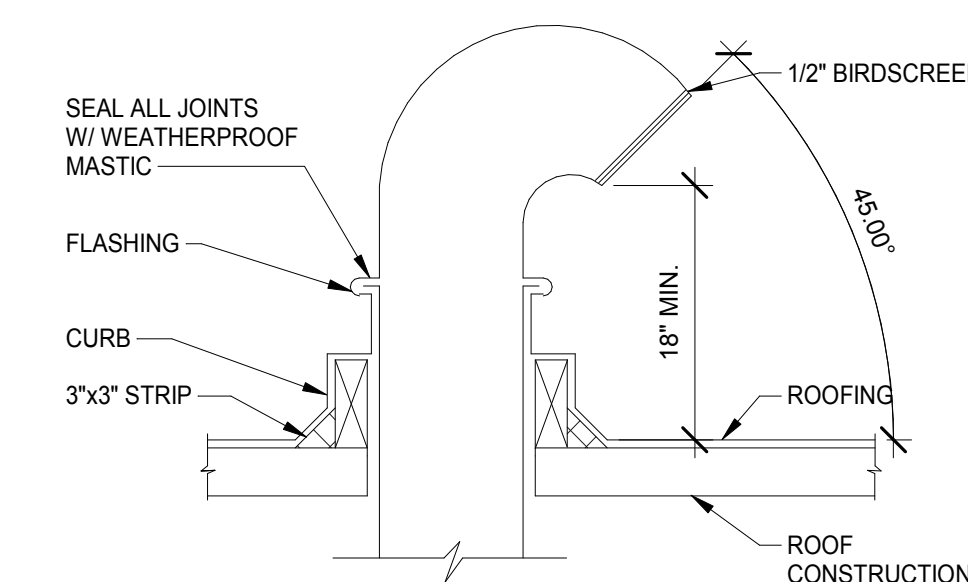
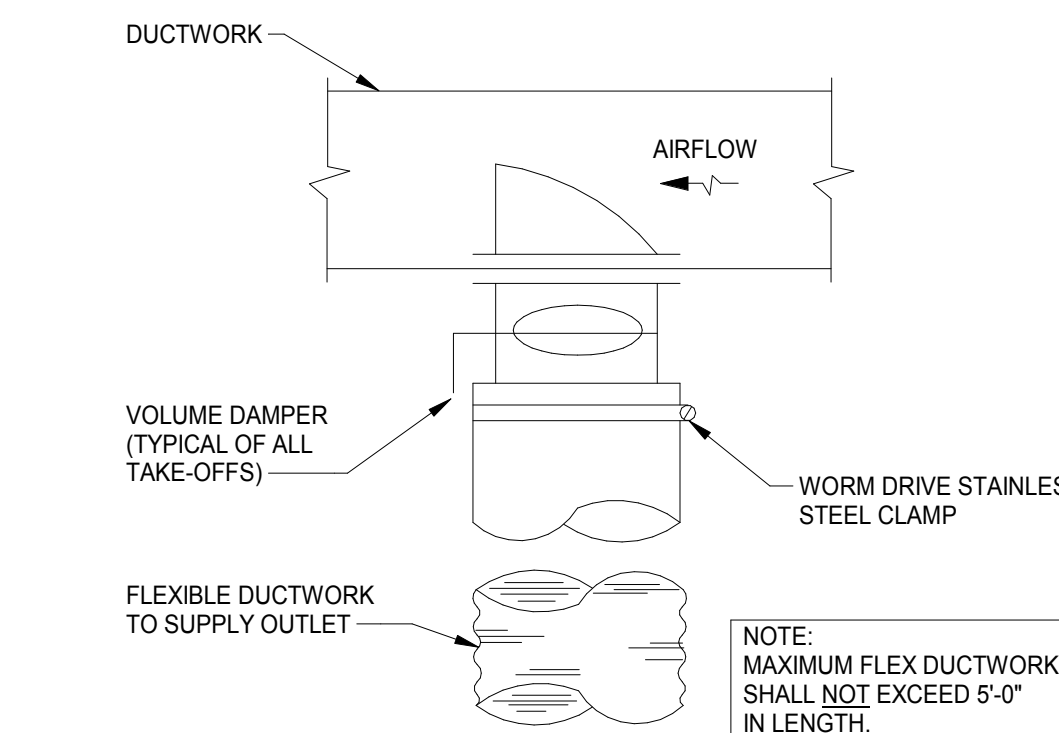
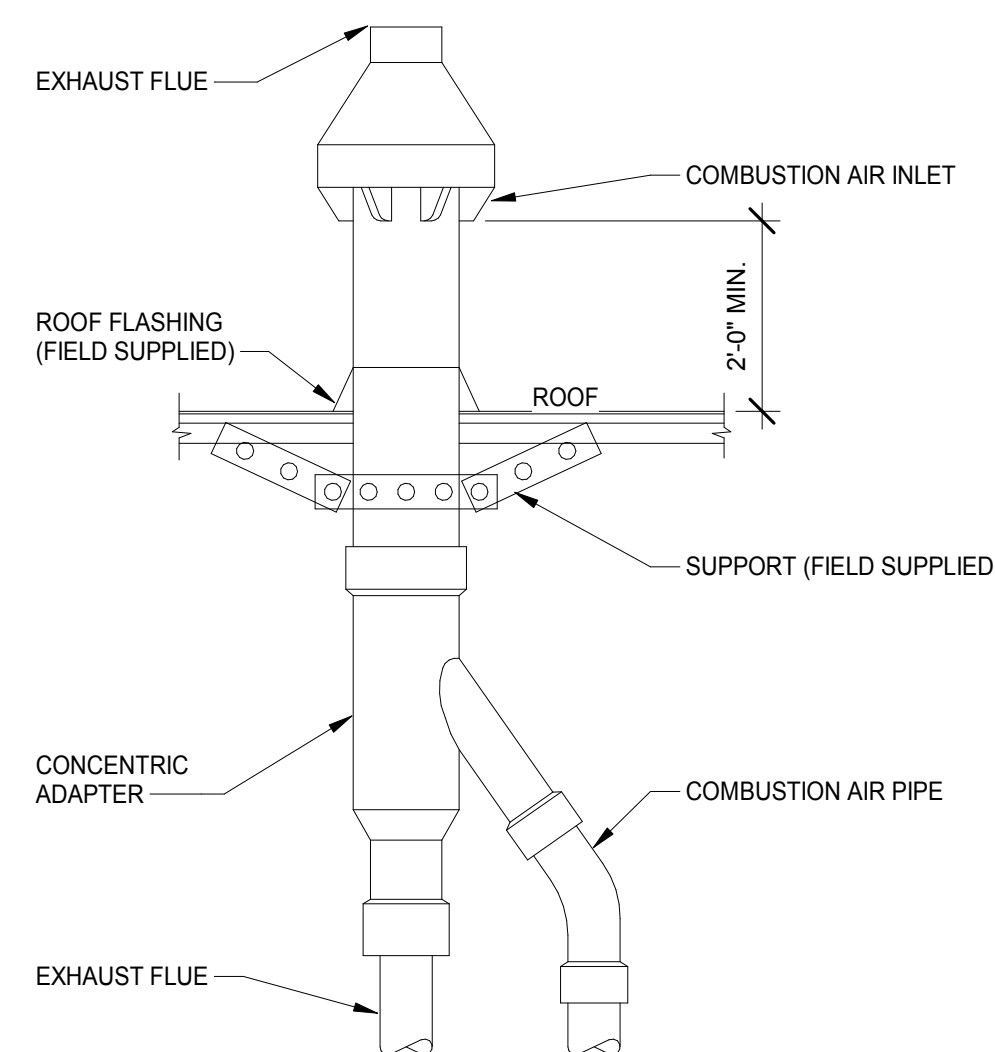
DATE





- NOTES:

1. ALL PIPING AND PIPING COMPONENTS BY M.C.
2. PITCH ALL HORIZONTAL LINES A MINIMUM OF 1/2" IN 10 FEET IN THE DIRECTION OF REFRIGERANT FLOW.
3. INSULATE ALL SUCTION LINES.
4. UNIT MANUFACTURER SHALL PROVIDE REFRIGERANT PIPING SCHEMATIC INCLUDING ALL LINES AND VALVE SIZES AND EXACT LINE ROUTING.
5. PROVIDE LIQUID-LINE SOLENOID VALVE.



FURNACE SCHEDULE																							
TAG	MANUF.	FURNACE MODEL	FURNACE					SUPPLY FAN					COOLING COIL							WEIGHT	NOTES		
			AIRFLOW (CFM)	MIN O.A. (CFM)	TOTAL (BTUH)	EAT/LAT (F)	GAS INPUT (BTUH)	GAS OUTPUT (BTUH)	EFF (%)	ESP (IN WC)	HP	VOLT/ PH	MCA (A)	MOCP (A)	COIL MODEL	APD (IN WC)	EAT (F) DBWB	LAT (F) DBWB	TOTAL (BTUH)			SENSIBLE (BTUH)	OUTDOOR UNIT
F-1	TRANE	S9X2B060U4PSA	1,500	240	58,000	60.0/95.8	60,000	58,000	96.0	0.5	0.75	120/1	11.3	15.0	4TXCB006DS3	0.56	78.8/64.1	54.5/53.4	45,700	38,900	ACCU-1	175 LB	1.2,3,4
F-2	TRANE	S9X2B060U4PSA	1,500	235	58,000	60.0/95.8	60,000	58,000	96.0	0.5	0.75	120/1	11.3	15.0	4TXCB006DS3	0.56	78.8/64.4	54.8/53.8	45,900	37,600	ACCU-2	175 LB	1.2,3,6
F-3	TRANE	S9X2C080U5PSA	1,600	200	78,000	60.0/105.9	80,000	78,000	96.0	0.5	1.00	120/1	14.4	15.0	4TXCC007DS3	0.36	78.4/64.2	54.9/54.0	46,300	39,500	ACCU-3	190 LB	1.2,3,4
F-4	TRANE	S9X2B060U4PSA	1,310	160	58,000	60.0/101.0	60,000	58,000	96.0	0.5	0.75	120/1	11.3	15.0	4TXCB006DS3	0.34	78.9/64.1	55.9/53.8	38,700	32,100	ACCU-4	175 LB	1.2,3,4
F-5A	TRANE	S9X2B060U4PSA	1,225	140	58,000	60.0/103.8	60,000	58,000	96.0	0.5	0.75	120/1	11.3	15.0	4TXCB006DS3	0.30	78.1/64.2	55.3/53.3	38,400	29,800	ACCU-5A	175 LB	1.2,3,4,5
F-5B	TRANE	S9X2B060U4PSA	1,225	140	58,000	60.0/103.8	60,000	58,000	96.0	0.5	0.75	120/1	11.3	15.0	4TXCB006DS3	0.30	78.1/64.2	55.3/53.3	38,400	29,800	ACCU-5B	175 LB	1.2,3,4,5
F-6	TRANE	S9X2B060U4PSA	1,285	160	58,000	60.0/101.8	60,000	58,000	96.0	0.5	0.75	120/1	11.3	15.0	4TXCB006DS3	0.33	78.0/64.2	55.8/53.7	38,700	30,400	ACCU-6	175 LB	1.2,3,4

1. PROVIDE STARTER/DISCONNECT PER DIVISION 26.
2. PROVIDE FILTER AND RACK, AND LIQUID-LINE SOLENOID VALVE.
3. PROVIDE WITH COMBINATION CONCENTRIC VENT, REFER TO S1MS.1.
4. PROVIDE PROGRAMMABLE CONTROLLER WITH A CONTROL SEQUENCE TO BE PROVIDED PER SPECIFICATION. UNIT SHALL BE PROVIDED WITH STANDARD TEMPERATURE CONTROLS AND SAFETIES PRE-WIRED TO TERMINAL STRIP FOR USE BY BUILDING AUTOMATION SYSTEM.
5. PROVIDE TWINNING KIT AND INSTALL PER MANUFACTURER RECOMMENDATION.
6. PROVIDE WITH COMBINATION CONCENTRIC SIDE WALL VENT KIT.

AIR COOLED CONDENSING UNIT SCHEDULE														
TAG	MANUFACTURER	MODEL	EQUIPMENT SERVED	VOLT/ PH	NOMINAL TONS	DESIGN AMBIENT TEMP (F)	SEER	REF TYPE	COMPRESSOR		ELECTRICAL		NOTES	
									NO.	RLA/LRA	MCA (A)	MCB		
ACCU-1	TRANE	4TTR4049L1	F-1	208/1	4.0	95	14.50	R-410	1	18.5/124.0	24	40	1,2,3,4	
ACCU-2	TRANE	4TTR4049L1	F-2	208/1	4.0	95	14.50	R-410	1	18.5/124.0	24	40	1,2,3,4	
ACCU-3	TRANE	4TTR4049L1	F-3	208/1	4.0	95	15.00	R-410	1	18.5/124.0	24	40	1,2,3,4	
ACCU-4	TRANE	4TTR4043L1	F-4	208/1	3.6	95	15.00	R-410	1	16.7/109.0	22	35	1,2,3,4	
ACCU-5A	TRANE	4TTR4043L1	F-5A	208/1	3.6	95	15.00	R-410	1	16.7/109.0	22	35	1,2,3,4	
ACCU-5B	TRANE	4TTR4043L1	F-5B	208/1	3.6	95	15.00	R-410	1	16.7/109.0	22	35	1,2,3,4	
ACCU-6	TRANE	4TTR4043L1	F-6	208/1	3.6	95	15.00	R-410	1	16.7/109.0	22	35	1,2,3,4	
ACCU-7	MITSUBISHI ELECTRIC	PUZ-A30NHA7	DSS-1	208/1	1.5	95	15.30	R-410	1	-/-	13	15	1,2,3,4	

1. PROVIDE STARTER/DISCONNECT PER DIVISION 26.
2. PROVIDE CRANKCASE HEATER, LOW-AMBIENT KIT, WINTER START KIT, AND WIND BAFFLE.
3. REFER TO DETAIL 10/M5.1. SIZE REFRIGERANT PIPING PER MANUFACTURER RECOMMENDATION.
4. FURNISH WITH 4" CONCRETE PAD.

DUCTLESS SPLIT INDOOR UNIT SCHEDULE									
TAG	MANUFACTURER	MODEL	CAPACITY (BTUH)	CFM	ELECTRICAL			OUTDOOR UNIT	NOTES
					VOLT / PH.	MCA	FLA		
DSS-1	mitsubishi electric	PKA-A18HA7	18,000	425	208/1	1	0.33	ACCU-7	1,2,3

1. PROVIDE STARTER/DISCONNECT PER DIVISION 26.
2. REFER TO DETAIL 10/M5.1. SIZE REFRIGERANT PIPING PER MANUFACTURER RECOMMENDATION.
3. PROVIDE OPTIONAL DRAIN PUMP FROM MANUFACTURER.

CEILING FAN SCHEDULE								
TAG	MANUF.	MODEL NO.	CFM	SP (IN WC)	RPM	POWER (W)	VOLT/PH	NOTES
EF-1	LOREN COOK	GC-128	70	0.12	750	28.1	115/1	1,2,3,4
EF-2	LOREN COOK	GC-128	70	0.07	750	28.1	115/1	1,2,3,4
EF-3	LOREN COOK	GC-128	70	0.12	750	28.1	115/1	1,2,4,5
EF-4	LOREN COOK	GC-128	70	0.07	750	28.1	115/1	1,2,4,5
EF-5	LOREN COOK	GC-128	65	0.07	750	28.1	115/1	1,2,3,4

1. MANUFACTURER PROVIDED STARTER/DISCONNECT PER DIVISION 26 SPECIFICATIONS.
2. FAN SHALL OPERATE WHEN THE LIGHT SWITCH IS ON.
3. REFER TO DETAIL 4/M5.1.
4. PROVIDE SIDEWALL VENT WITH WALL CAP AND BACKDRAFT DAMPER.
5. REFER TO ARCHITECTURAL DETAIL FOR DUCT TERMINATION AT ROOF SOFFIT. PROVIDE INSECT SCREEN AT TERMINATION.

AIR TERMINAL SCHEDULE											
TAG	MANUF.	MODEL	NECK SIZE	PANEL SIZE	MAX CFM	PRESSURE (IN)	STYLE	INSTALLATION	FINISH	NC	
LD-1	PRICE	SDS75	6	48"	150	0.077	LINEAR SUPPLY DIFFUSER, 3/4" @ 2 SLOTS, 45° THROW, W - FLANGE END, SDBI TO FIT SDS75	WALL MOUNT	B12 WHITE	<15	
LR-1	PRICE	SDR75	6	48"	120	0.040	LINEAR RETURN GRILLE, 3/4" @ 2 SLOTS, W - FLANGE END, SDBI TO FIT SDR75	WALL MOUNT	B12 WHITE	15	
RG-1	PRICE	530	6x6	8x8	50	0.022	RETURN GRILLE, 3/4" SPACING, 45° SINGLE DEFLECTION	DUCTED	B12 WHITE	<15	
RG-2	PRICE	530	10x10	12x12	200	0.031	RETURN GRILLE, 3/4" SPACING, 45° SINGLE DEFLECTION	LAY-IN	B12 WHITE	<15	
RG-3	PRICE	530	16x8	18x10	200	0.018	RETURN GRILLE, 3/4" SPACING, 45° SINGLE DEFLECTION	WALL MOUNT	B12 WHITE	<15	
RG-4	PRICE	530	10x22	12x24	445	0.044	RETURN GRILLE, 3/4" SPACING, 45° SINGLE DEFLECTION	LAY-IN	B12 WHITE	15	
RG-5	PRICE	80	10x10	12x12	340	0.043	RETURN GRILLE, 1/2" SQUARE, 1/2" DEPTH, 0 CORE° DEFLECTION	LAY-IN	B12 WHITE	<15	
RG-6	PRICE	80	10x22	12x24	695	0.036	RETURN GRILLE, 1/2" SQUARE, 1/2" DEPTH, 0 CORE° DEFLECTION	LAY-IN	B12 WHITE	<15	
SD-1	PRICE	SCDA	6	12x12	65	0.018	SUPPLY DIFFUSER, 3 CONE	LAY-IN / DUCTED	B12 WHITE	<15	
SD-2	PRICE	SCDA	6	24x24	70	0.015	SUPPLY DIFFUSER, 4 CONE	LAY-IN	B12 WHITE	<15	
SD-3	PRICE	SCDA	8	24x24	160	0.020	SUPPLY DIFFUSER, 4 CONE	LAY-IN	B12 WHITE	<15	
SD-4	PRICE	SCDA	10	24x24	270	0.033	SUPPLY DIFFUSER, 4 CONE	LAY-IN	B12 WHITE	<15	
SD-5	PRICE	SCDA	12	24x24	465	0.033	SUPPLY DIFFUSER, 4 CONE	LAY-IN	B12 WHITE	<15	
SR-1	PRICE	510	16x8	18x10	225	0.017	SUPPLY REGISTER, 3/4" SPACING, 22.5° DOUBLE DEFLECTION	WALL MOUNT	B12 WHITE	<15	

ELECTRIC UNIT HEATER SCHEDULE											
TAG	MANUFACTURER	MODEL NO.	CAPACITY (MBH)	ELECTRICAL DATA			FAN MOTOR DATA			MOUNTING HEIGHT	NOTES
				VOLT/PH	K.W.	AMPS	CFM	RPM	HP		
EUH-1	MARLEY ENGINEERED PRODUCTS	QMARK MUH05-81	17	208/1	5	24	350	1600	1/100	6'-0"	1

1. PROVIDE THERMAL OVERLOAD PROTECTION, BUILT-IN DISCONNECT SWITCH AND FAN DELAY SWITCH, BUILT-IN DISCONNECT SWITCH.

ELECTRIC BASEBOARD HEATER SCHEDULE								
TAG	MANUFACTURER	MODEL NO.	CAPACITY (BTUH)	ELECTRICAL DATA			LENGTH	NOTES
				VOLT/PH	WATTS	AMPS		
EBH-1	MARLEY ENGINEERED PRODUCTS	BERKO BKOC2506W	5,120	208/1	1500	7.2	6' - 0"	1

1. PROVIDE INTEGRAL THERMOSTAT WITH LABEL, THERMAL OVERLOAD PROTECTION, BUILT-IN DISCONNECT SWITCH.

ELECTRIC WALL UNIT HEATER SCHEDULE								
TAG	MANUFACTURER	MODEL NO.	CAPACITY (BTUH)	ELECTRICAL DATA			MOUNTING HEIGHT	NOTES
				VOLT/PH	WATTS	AMPS		
EWH-1	MARLEY ENGINEERED PRODUCTS	QMARK AWH3150F	5,118	120/1	1500	12.5	2'-4"	1

1. PROVIDE INTEGRAL THERMOSTAT WITH LABEL, THERMAL OVERLOAD PROTECTION, BUILT-IN DISCONNECT SWITCH.

PUMP SCHEDULE								
TAG	MANUF.	MODEL	CAPACITY GALLON	FEET HD	MOTOR	ELECTRICAL		REMARKS
						VOLTS	PHASE	
CP-1	ZOELLER	MODEL 521	1	11	1/6	115 V	1	1,2

1. PROVIDE INVERTED U AT THE HIGHEST POINT OF THE DISCHARGE LINE.
2. INSTALL UNIT ON FLOOR CLOSE TO WALL.

DLZ

ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES

DLZ OHIO, INC

STATE OF OHIO
ERIC S. ACKER
E-72803
REGISTERED PROFESSIONAL ENGINEER

Eric S. Ackers

DRAWING NUMBER
M6.1

MECHANICAL

LANCASTER

FAIRFIELD COUNTY AUDITOR'S OFFICE
REAL ESTATE DEPARTMENT

OHIO

EQUIPMENT SCHEDULES

REVISION

DATE

NO.

CHK'D: MLY

DESIGNED: KB

APPR'D: ESA

DATE: December 6th, 2018

PROJECT NUMBER

1821-7001-50

CONTROL NOTES

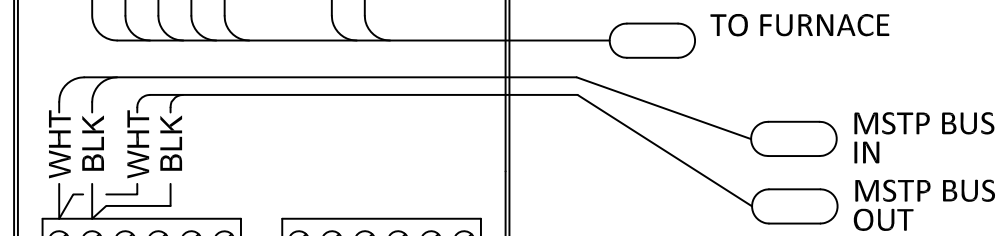
B.- ALL WORK SHALL BE INSTALLED ACCORDING TO THE LATEST LOCAL, STATE AND NATIONAL CODES.

D.- COORDINATE CONSTRUCTION OF ALL MECHANICAL WORK WITH ARCHITECTURAL, STRUCTURAL, CIVIL, ELECTRICAL WORK, ETC., SHOWN ON OTHER CONTRACT DOCUMENT DRAWINGS.

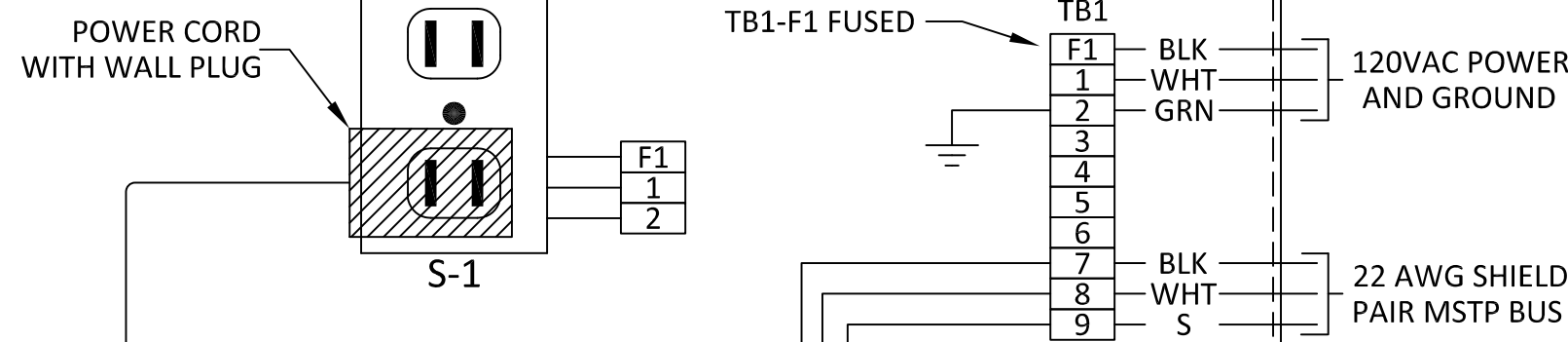
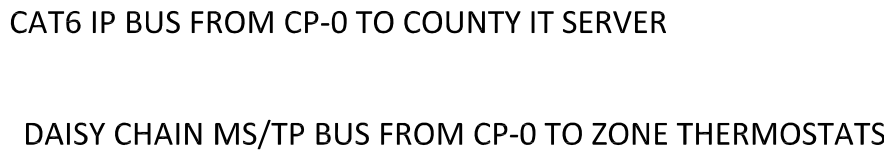
F.- LOCATION AND SIZES OF ALL FLOOR, WALL AND ROOF OPENINGS SHALL BE COORDINATED WITH ALL OTHER TRADES INVOLVED.

1. - CONTROL PANEL CP-0 (MAIN BUILDING CONTROL PANEL)
1. - 6 BACNET MSTP NETWORK COMMUNICATING THERMOSTATS

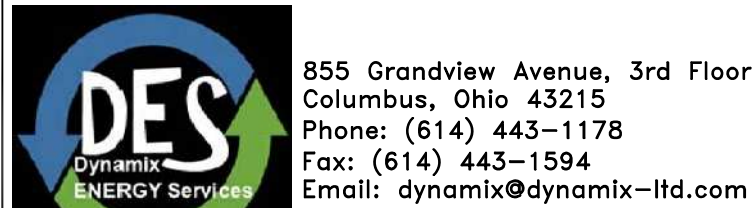
THERMOSTAT INSTALLATION TO INCLUDE MOUNTING IN DESIGNATED
LOCATION AND TERMINATING MSTP BUS WIRING AND 8-CONDUCTOR CABLE
TO THE FURNACE AS SHOWN ON THERMOSTAT DETAIL

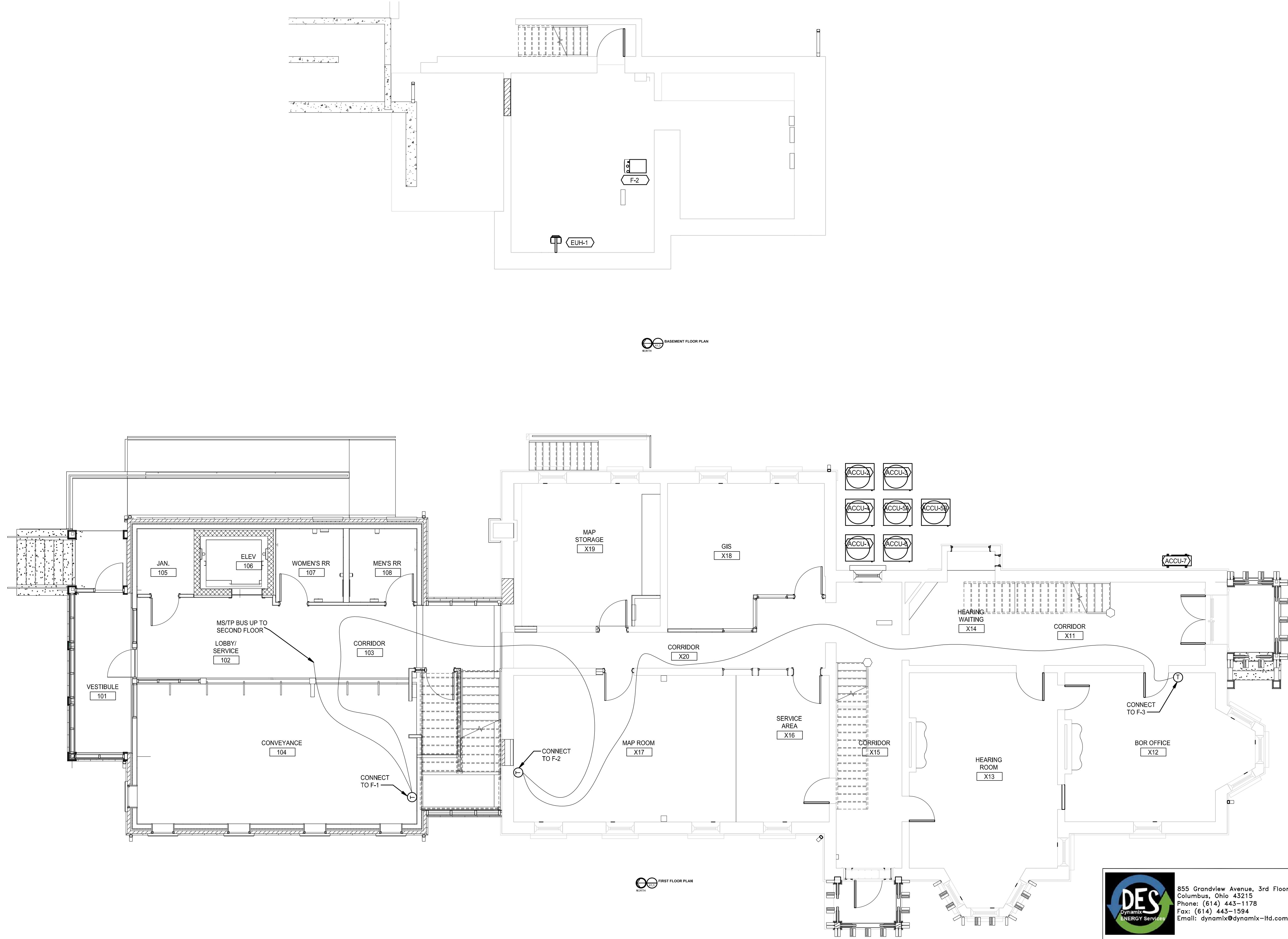


THERMOSTAT WIRING
(TYPICAL OF SIX (6): F-1, 2, 3, 4, 5, 6)



CONTROL PANEL CP-0
LOCATED IN IT/DATA ROOM X21
PANEL PROVIDED BY OWNER

[illegible]



DRAWING NUMBER

X1.2

MECHANICAL

LANCASTER

FAIRFIELD COUNTY AUDITOR'S OFFICE
REAL ESTATE DEPARTMENT

MSTP BUS ROUTING - FIRST FLOOR

OHIO

DRAWN: --

DESIGNED: --

APPROVED: --

DATE: December 6th, 2018

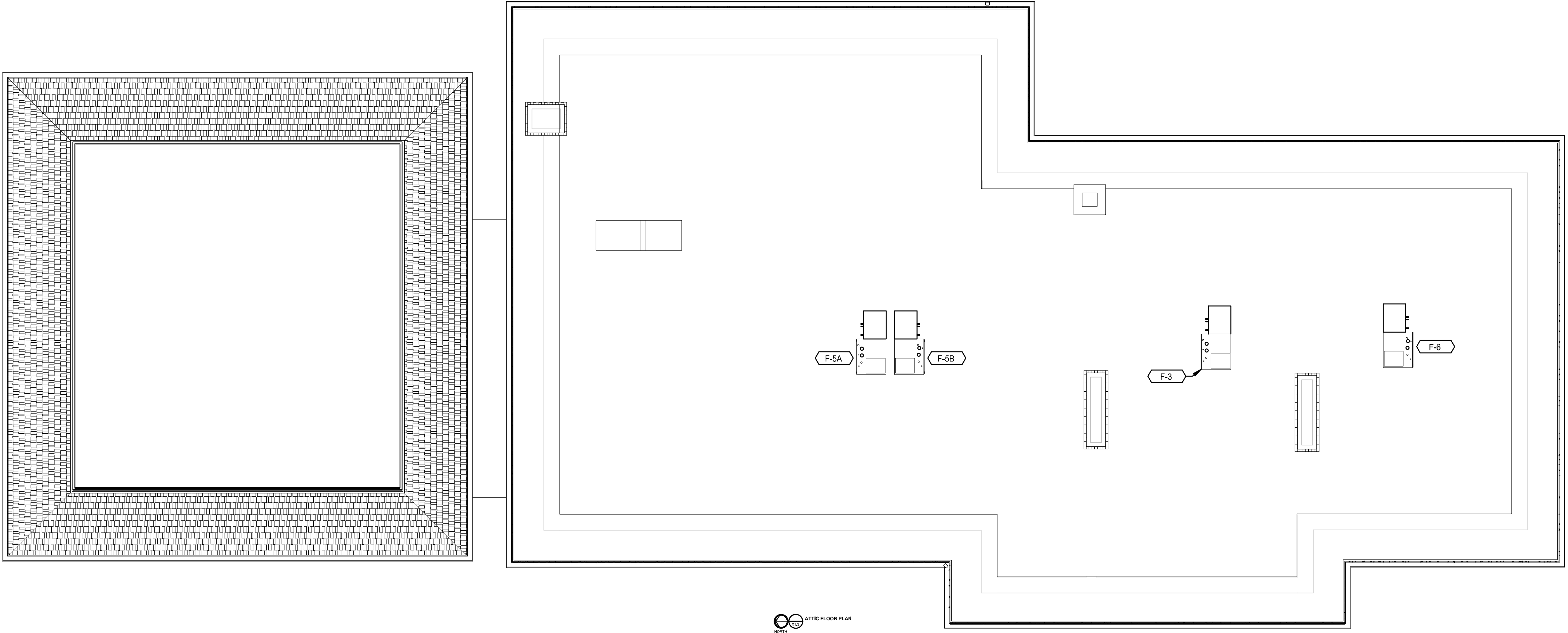
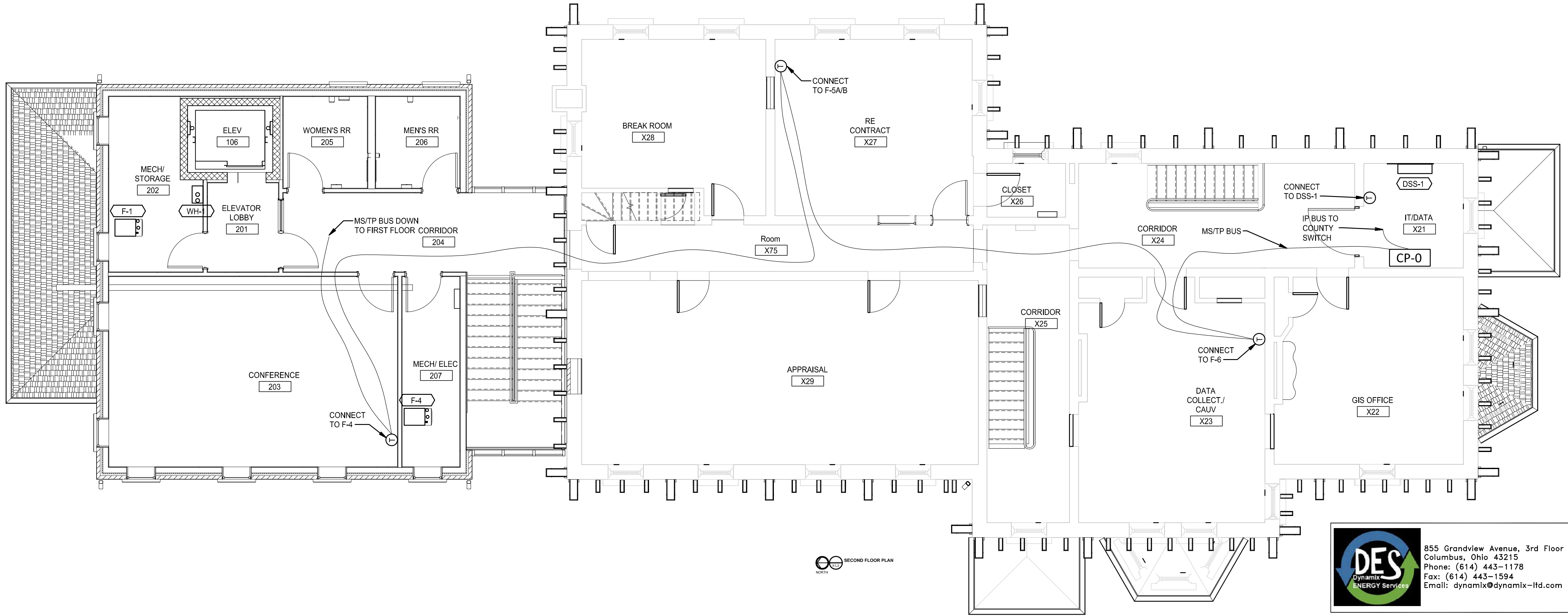
PROJECT NUMBER

1821-7001-50

NO.

REVISION

DATE



DRAWING NUMBER

X1.3

MECHANICAL

LANCASTER

FAIRFIELD COUNTY AUDITOR'S OFFICE
REAL ESTATE DEPARTMENT

MSTP BUS ROUTING - SECOND FLOOR

OHIO

DRAWN: --

DESIGNED: --

APPROVED: --

DATE: December 6th, 2018

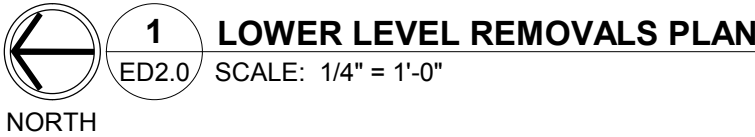
PROJECT NUMBER

1821-7001-50

NO.

REVISION

DATE



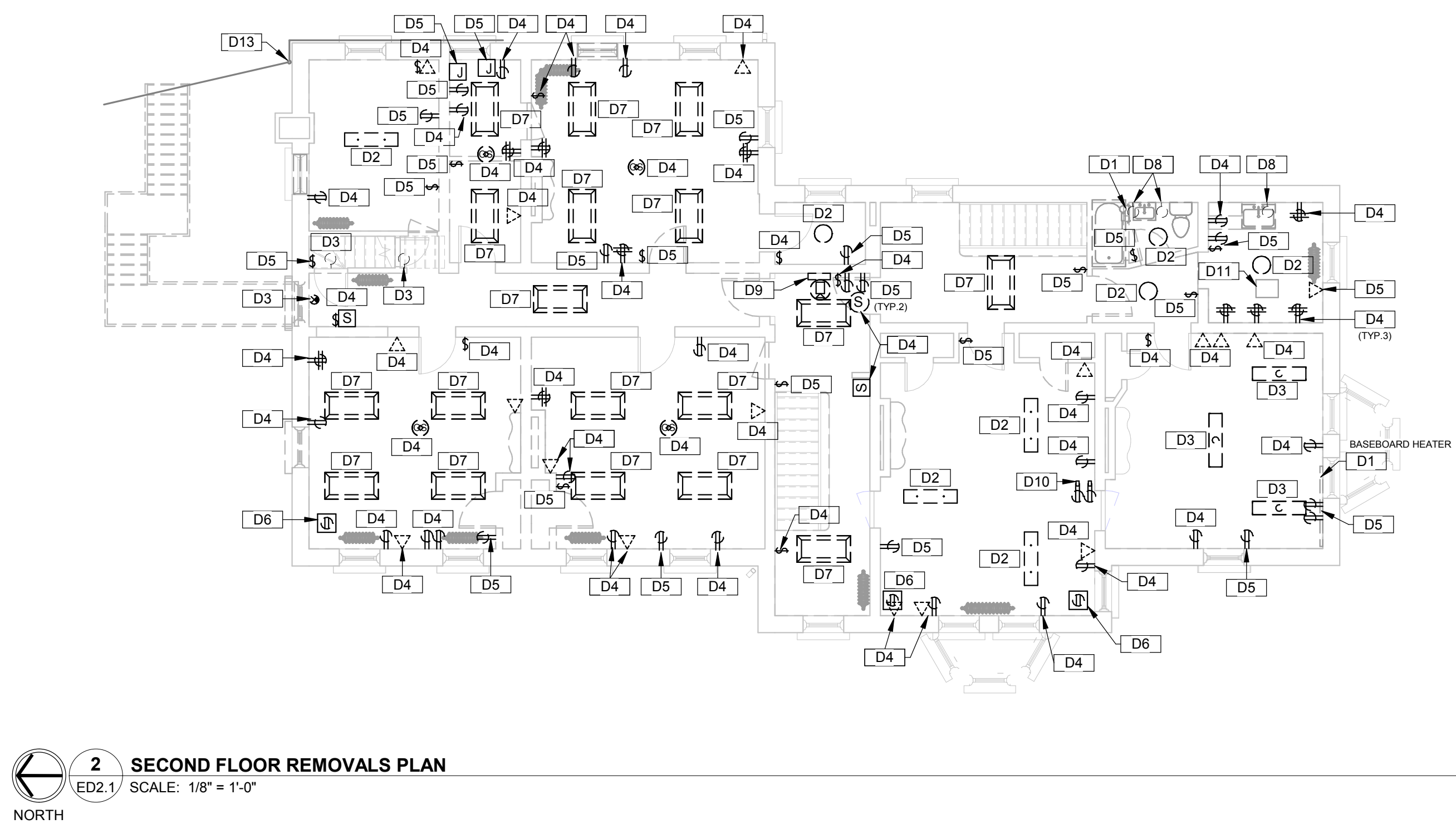
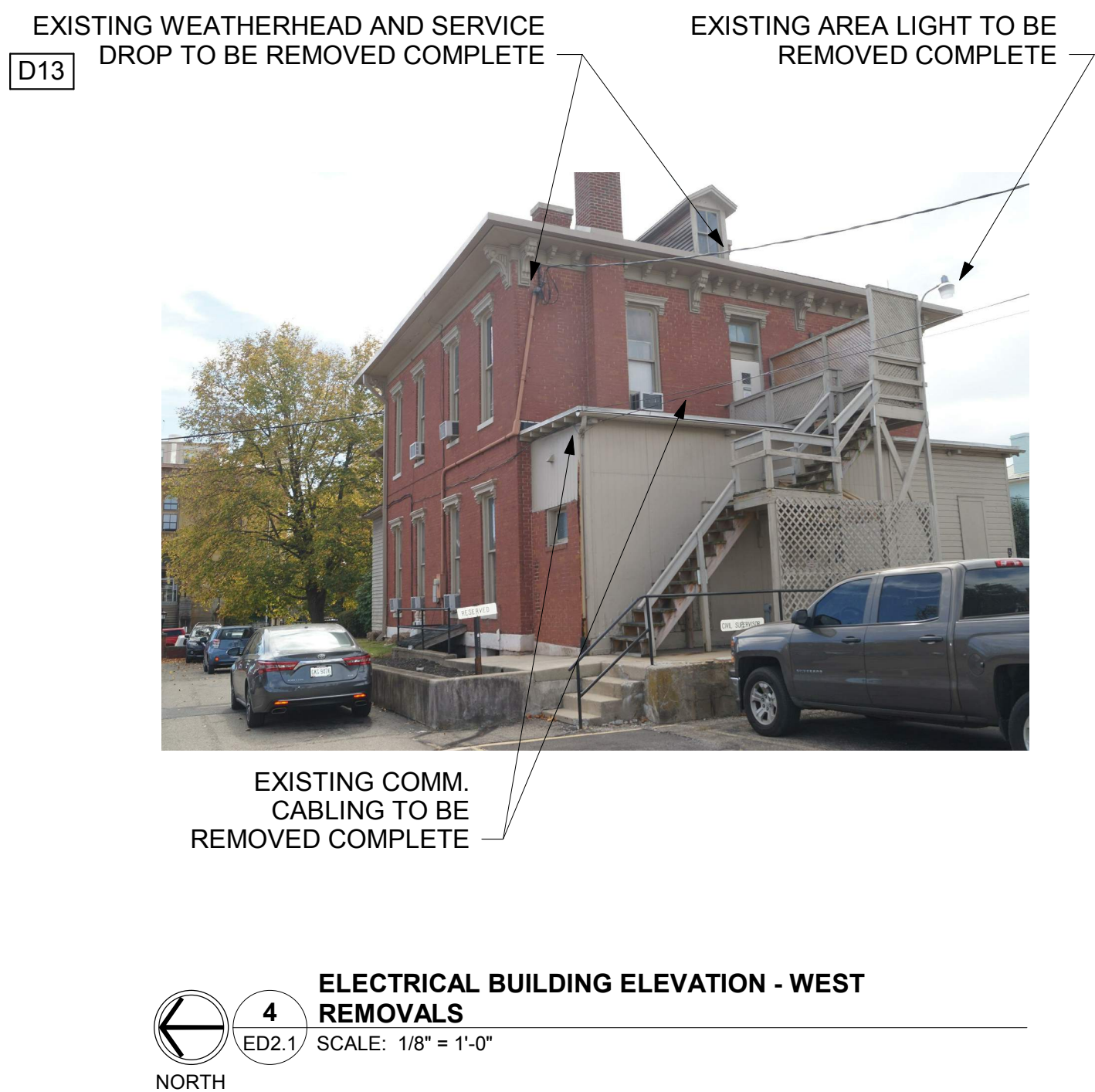
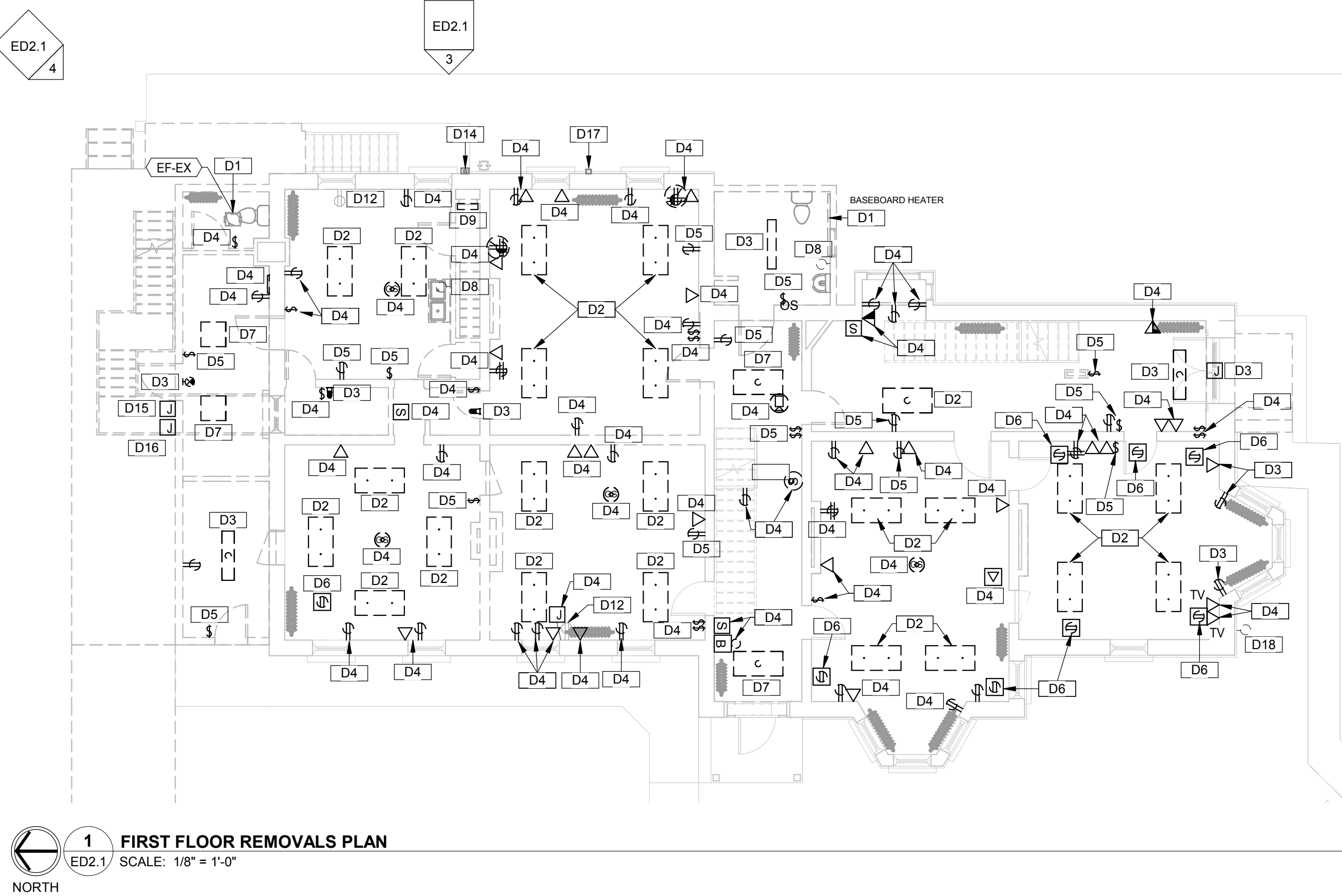
A. DASHED LINES INDICATE EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED ELECTRICAL ITEMS (I.E. CABLE, CONDUIT, SUPPORTS, DISCONNECTS, ETC) COMPLETE BACK TO POWER AND/OR SIGNAL SOURCE OR TO NEAREST REMAINING DEVICE(S) U.O.N.

B. SHADED LINES INDICATE EXISTING ELECTRICAL ITEMS TO REMAIN.

C. ALL EXISTING LIGHTING, POWER AND SYSTEMS TO BE REMOVED COMPLETE, UNLESS OTHERWISE NOTED. DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL ITEMS (I.E. CABLE, CONDUIT, SUPPORTS, DISCONNECTS, ETC) COMPLETE BACK TO SOURCE. ALL EXISTING FLUSH MOUNTED BACK BOXES TO REMAIN.

D1	EXISTING EQUIPMENT TO BE REMOVED COMPLETE. DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL ITEMS (I.E. CABLING, CONDUIT, DISCONNECTS, BOXES, SUPPORTS, ETC) COMPLETE BACK TO POWER SOURCE.
D2	EXISTING PENDANT MOUNTED FIXTURE TO BE REMOVED.
D3	EXISTING SURFACE MOUNTED FIXTURE TO BE REMOVED.
D4	EXISTING SURFACE MOUNTED DEVICE(S) TO BE REMOVED.
D5	EXISTING FLUSH MOUNTED DEVICE TO BE REMOVED.
D6	EXISTING FLOOR MOUNTED DEVICE TO BE REMOVED.
D7	EXISTING RECESSED/GRID FIXTURE TO BE REMOVED.
D8	EXISTING WALL SCONCE LIGHT FIXTURE TO BE REMOVED.
D9	EXISTING ELECTRICAL PANEL TO BE REMOVED COMPLETE.
D10	EXISTING POWER POLE TO BE REMOVED COMPLETE.
D11	EXISTING DATA RACK TO REMAIN. PROTECT DURING CONSTRUCTION.
D12	EXISTING DUPLEX REMOVED FOR REPLACEMENT. DISCONNECT AND REMOVE DEVICE AND ASSOCIATED CIRCUITRY BACK TO SOURCE. EXISTING BACK BOX TO REMAIN.
D13	EXISTING WEATHERHEAD AND UTILITY SERVICE TO BE REMOVED COMPLETE.
D14	EXISTING UTILITY (AEP) METER WITH RISER TO WEATHERHEAD TO BE REMOVED COMPLETE.
D15	EXISTING CARC ACCESS TO BE REMOVED COMPLETE.
D16	EXISTING DOORBELL BUTTON TO BE REMOVED COMPLETE.
D17	EXISTING PHOTOCELL NEAR GRADE TO BE REMOVED COMPLETE.
D18	EXISTING SURFACE MOUNTED EXTERIOR SPOT LIGHT TO BE REMOVED COMPLETE.

DRAWING NUMBER	ED2.0	LANCASTER	FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT	OHIO	NO.	REVISION	DATE
			LOWER LEVEL REMOVAL PLAN	DESIGNED: JRM CHECKED: JRM DATE: DECEMBER 06, 2018			
				PROJECT NUMBER			
				1821-7001-50			
ELECTRICAL							



GENERAL NOTES

- A. DASHED LINES INDICATE EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED ELECTRICAL ITEMS (I.E. CABLE, CONDUIT, SUPPORTS, DISCONNECTS, ETC) COMPLETE BACK TO POWER AND/OR SIGNAL SOURCE OR TO NEAREST REMAINING DEVICE(S) U.G.N.
- B. SHADED LINES INDICATE EXISTING ELECTRICAL ITEMS TO REMAIN.
- C. ALL EXISTING LIGHTING, POWER AND SYSTEMS TO BE REMOVED COMPLETE, UNLESS OTHERWISE NOTED. DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL ITEMS (I.E. CABLE, CONDUIT, SUPPORTS, DISCONNECTS, ETC) COMPLETE BACK TO SOURCE. ALL EXISTING FLUSH MOUNTED BACK BOXES TO REMAIN.

REMOVAL KEYNOTES

- D1 EXISTING EQUIPMENT TO BE REMOVED COMPLETE. DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL ITEMS (I.E. CABLING, CONDUIT, DISCONNECTS, BOXES, SUPPORTS, ETC) COMPLETE BACK TO POWER SOURCE.
- D2 EXISTING PENDANT MOUNTED FIXTURE TO BE REMOVED.
- D3 EXISTING SURFACE MOUNTED FIXTURE TO BE REMOVED.
- D4 EXISTING SURFACE MOUNTED DEVICE(S) TO BE REMOVED.
- D5 EXISTING FLUSH MOUNTED DEVICE(S) TO BE REMOVED.
- D6 EXISTING FLOOR MOUNTED DEVICE TO BE REMOVED.
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- D8 EXISTING WALL SCONCE LIGHT FIXTURE TO BE REMOVED.
- D9 EXISTING ELECTRICAL PANEL TO BE REMOVED COMPLETE.
- D10 EXISTING POWER POLE TO BE REMOVED COMPLETE.
- D11 EXISTING DATA RACK TO REMAIN. PROTECT DURING CONSTRUCTION.
- D12 EXISTING DUPLEX REMOVED FOR REPLACEMENT. DISCONNECT AND REMOVE DEVICE AND ASSOCIATED CIRCUITRY BACK TO SOURCE. EXISTING BACK BOX TO REMAIN.
- D13 EXISTING WEATHERHEAD AND UTILITY SERVICE TO BE REMOVED COMPLETE.
- D14 EXISTING UTILITY (AEP) METER WITH RISER TO WEATHERHEAD TO BE REMOVED COMPLETE.
- D15 EXISTING CARD ACCESS TO BE REMOVED COMPLETE.
- D16 EXISTING DOORBELL BUTTON TO BE REMOVED COMPLETE.
- D17 EXISTING PHOTOCELL NEAR GRADE TO BE REMOVED COMPLETE.
- D18 EXISTING SURFACE MOUNTED EXTERIOR SPOT LIGHT TO BE REMOVED COMPLETE.

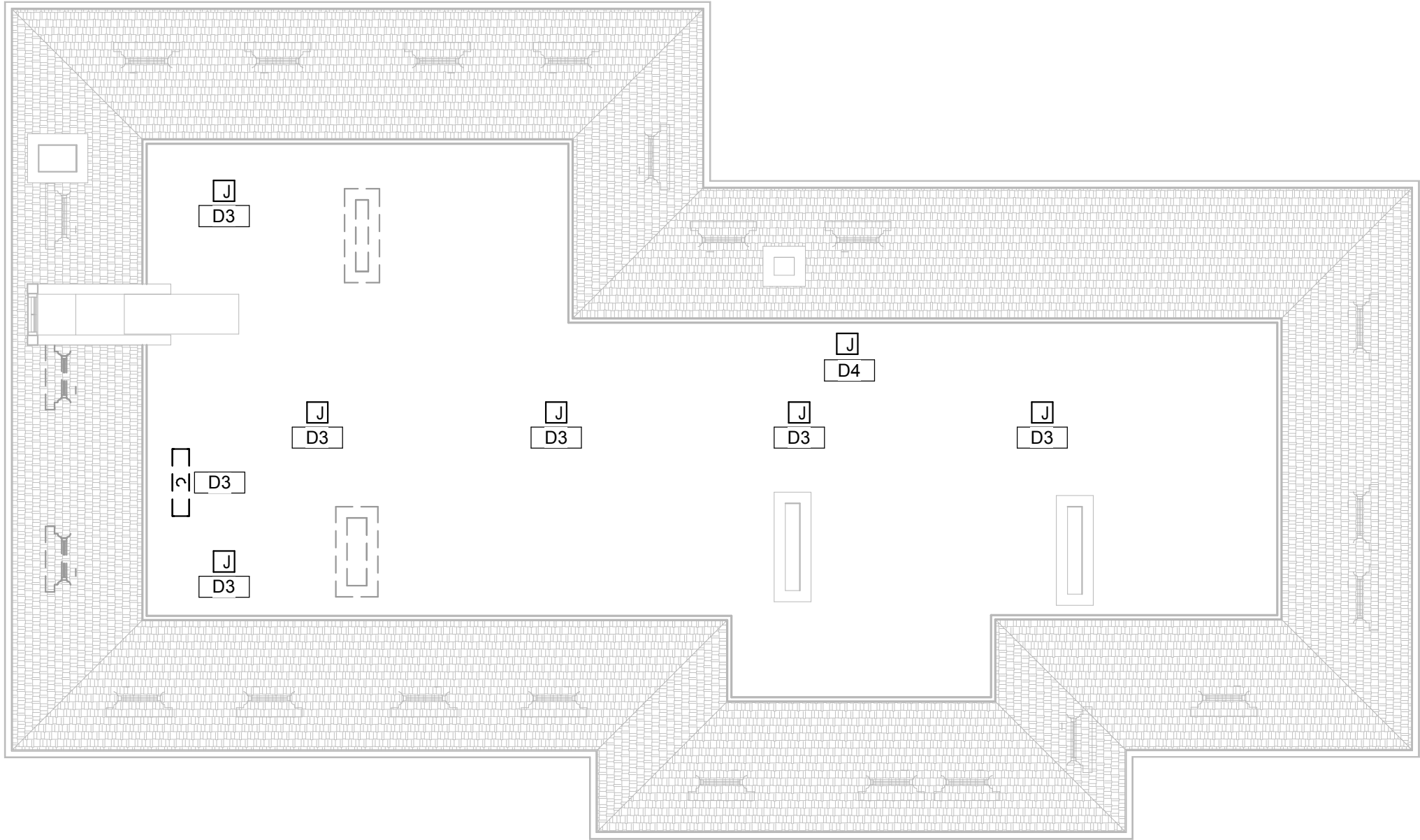
NO.	REVISION	DATE

DRAWN: ROW	CHK'D: MLH
DESIGNED: ROW	APPROVD: TKF
DATE: DECEMBER 06, 2018	PROJECT NUMBER
1821-7001-50	

LANCASTER	FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT	FIRST FLOOR AND SECOND FLOOR REMOVAL PLANS
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DRAWING NUMBER	ED2.1
	ELECTRICAL

 **1**
ED2.2 ATTIC REMOVALS PLAN
SCALE: 1/8" = 1'-0"



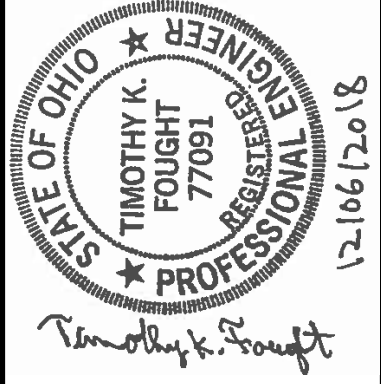
GENERAL NOTES

- A. DASHED LINES INDICATE EXISTING ELECTRICAL EQUIPMENT TO BE REMOVED. REMOVE ASSOCIATED ELECTRICAL ITEMS (I.E. CABLE, CONDUIT, SUPPORTS, DISCONNECTS, ETC) COMPLETE BACK TO POWER AND/OR SIGNAL SOURCE OR TO NEAREST REMAINING DEVICE(S) U.O.N.
- B. SHADED LINES INDICATE EXISTING ELECTRICAL ITEMS TO REMAIN.
- C. ALL EXISTING LIGHTING, POWER AND SYSTEMS TO BE REMOVED COMPLETE. UNLESS OTHERWISE NOTED, DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL ITEMS (I.E. CABLE, CONDUIT, SUPPORTS, DISCONNECTS, ETC) COMPLETE BACK TO SOURCE. ALL EXISTING FLUSH MOUNTED BACK BOXES TO REMAIN.

REMOVAL KEYNOTES

- D1 EXISTING EQUIPMENT TO BE REMOVED COMPLETE. DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL ITEMS (I.E. CABLING, CONDUIT, DISCONNECTS, BOXES, SUPPORTS, ETC) COMPLETE BACK TO POWER SOURCE.
- D2 EXISTING PENDANT MOUNTED FIXTURE TO BE REMOVED.
- D3 EXISTING SURFACE MOUNTED FIXTURE TO BE REMOVED.
- D4 EXISTING SURFACE MOUNTED DEVICE(S) TO BE REMOVED.
- D5 EXISTING FLUSH MOUNTED DEVICE(S) TO BE REMOVED.
- D6 EXISTING FLOOR MOUNTED DEVICE TO BE REMOVED.
- D7 EXISTING RECESSED/GRID FIXTURE TO BE REMOVED.
- D8 EXISTING WALL SCONCE LIGHT FIXTURE TO BE REMOVED.
- D9 EXISTING ELECTRICAL PANEL TO BE REMOVED COMPLETE.
- D10 EXISTING POWER POLE TO BE REMOVED COMPLETE.
- D11 EXISTING DATA RACK TO REMAIN. PROTECT DURING CONSTRUCTION.
- D12 EXISTING DUPLEX REMOVED FOR REPLACEMENT. DISCONNECT AND REMOVE DEVICE AND ASSOCIATED CIRCUITRY BACK TO SOURCE. EXISTING BACK BOX TO REMAIN.
- D13 EXISTING WEATHERHEAD AND UTILITY SERVICE TO BE REMOVED COMPLETE.
- D14 EXISTING UTILITY (AEP) METER WITH RISER TO WEATHERHEAD TO BE REMOVED COMPLETE.
- D15 EXISTING CARD ACCESS TO BE REMOVED COMPLETE.
- D16 EXISTING DOORBELL BUTTON TO BE REMOVED COMPLETE.
- D17 EXISTING PHOTOCELL NEAR GRADE TO BE REMOVED COMPLETE.
- D18 EXISTING SURFACE MOUNTED EXTERIOR SPOT LIGHT TO BE REMOVED COMPLETE.

DRAWING NUMBER	LANCASTER	OHIO	DRAWN: ROW	CHK'D: MLH	NO.	REVISION	DATE
ED2.2	FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT		DESIGNED: ROW				
			APPROVD: TRF				
			DATE: DECEMBER 06, 2018				
ELECTRICAL	ATTIC REMOVALS PLAN		PROJECT NUMBER				
			1821-7001-50				



ELECTRICAL SYMBOLS:

	DUPLEX RECEPTACLE, 125V, 20A. INSTALL DEVICE AT +18" A.F.F., U.O.N.
	DUPLEX RECEPTACLE, 125V, 20A. INSTALL DEVICE ABOVE COUNTER. REFER TO ARCHITECTURAL PLANS FOR ELEVATIONS.
	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT, 125V, 20A. INSTALL DEVICE AT +18" A.F.F., U.O.N.
	DUPLEX RECEPTACLE ON EMERGENCY CIRCUIT, 125V, 20A. INSTALL DEVICE ABOVE COUNTER. REFER TO ARCHITECTURAL PLANS FOR ELEVATIONS.
	DUPLEX RECEPTACLE CEILING MOUNTED 125V, 20A. REFER TO SPECIFICATIONS AND DRAWINGS FOR FURTHER DETAILS.
	DUPLEX RECEPTACLE FLOOR BOX 125V, 20A. REFER TO SPECIFICATIONS AND DRAWINGS FOR FURTHER DETAILS.
	QUAD RECEPTACLE, 125V, 20A. INSTALL DEVICE AT +18" A.F.F., U.O.N.
	QUAD RECEPTACLE, 125V, 20A. INSTALL DEVICE ABOVE COUNTER. REFER TO ARCHITECTURAL PLANS FOR ELEVATIONS.
	QUAD RECEPTACLE ON EMERGENCY CIRCUIT, 125V, 20A. INSTALL DEVICE AT +18" A.F.F., U.O.N.
	QUAD RECEPTACLE ON EMERGENCY CIRCUIT, 125V, 20A. INSTALL DEVICE ABOVE COUNTER. REFER TO ARCHITECTURAL PLANS FOR ELEVATIONS.
	SPECIAL RECEPTACLE, REFER TO MANUFACTURER REQUIREMENTS. INSTALL DEVICE AT +18" A.F.F., U.O.N.
	SPECIAL RECEPTACLE ON EMERGENCY CIRCUIT, REFER TO MANUFACTURER REQUIREMENTS. INSTALL DEVICE AT +18" A.F.F., U.O.N.
	JUNCTION BOX
	RELAY
	TOGGLE SWITCH, 120/277V, 1-POLE, 20A.
	TOGGLE SWITCH, THREE WAY TYPE, 120/277V, 20A.
	TOGGLE SWITCH, FOUR WAY TYPE, 120/277V, 20A.
	DIMMABLE SWITCH, 120/277V, 20A.
	MANUAL MOTOR STARTER.
	DUAL TECHNOLOGY OCCUPANCY SENSOR, CEILING MOUNT, COVERAGE OF SENSOR DEPENDENT ON ROOM SIZE.
	DUAL TECHNOLOGY OCCUPANCY SENSOR WALL SWITCH. COVERAGE OF SENSOR DEPENDENT ON ROOM SIZE.
	DISTRIBUTION PANELBOARD, SEE SCHEDULE FOR ADDITIONAL INFORMATION.
	NON-FUSED DISCONNECT SWITCH, SEE DRAWINGS FOR ADDITIONAL INFORMATION
	FUSED DISCONNECT SWITCH, SEE DRAWINGS FOR ADDITIONAL INFORMATION
	STARTER, SEE DRAWINGS FOR ADDITIONAL INFORMATION
	STARTER/DISCONNECT COMBINATION, SEE DRAWINGS FOR ADDITIONAL INFORMATION
	VARIABLE FREQUENCY DRIVE. SEE DRAWINGS FOR ADDITIONAL INFORMATION
	VARIABLE FREQUENCY DRIVE AND DISCONNECT COMBINATION, SEE DRAWINGS FOR ADDITIONAL INFORMATION
	MAGNETIC MOTOR STARTER NUMBER INDICATES NEMA RATING, SIZE 1 U.O.N.
	MOTOR. BY OTHERS, U.O.N.
	SMOKE DAMPER. BY OTHERS, U.O.N. CONNECT TO 120V BRANCH CIRCUIT AND FIRE ALARM CONTROL. PROVIDE DUCT DETECTOR AND TURN ON DAMPER.
	FIRE ALARM RELAY ADDRESSABLE INTERFACE DEVICE
	FIRE ALARM MANUAL PULL STATION
	FIRE ALARM HEAT DETECTOR. SURFACE MOUNT ON CEILING
	FIRE ALARM SMOKE DETECTOR; P=PHOTOELECTRIC, R=ELEVATOR RECALL
	FIRE ALARM DUCT MOUNTED SMOKE DETECTOR, HOUSING, AND SAMPLING TUBE. PROVIDE CONNECTION FOR DAMPER/FAN MOTOR CONTROL.
	FIRE ALARM AUDIBLE AND VISUAL STROBE COMBO DEVICE; WP=WEATHERPROOF
	FIRE ALARM VISUAL STROBE ANNUNCIATOR.
	FIRE ALARM AUDIBLE DEVICE; WP=WEATHERPROOF
	FIRE ALARM REMOTE ANNUNCIATOR PANEL.
	FIRE ALARM CONTROL PANEL.
	MAGNETIC HOLD OPENS TIED TO FIRE ALARM

	PLAIN OLD TELEPHONE SYSTEM OUTLET. PROVIDE (1) CAT 6 CABLE WITH (1) RJ11 JACK. INSTALL DEVICE WITH BOTTOM AT +18" AFF, U.O.N.
	COMBINATION TELEPHONE/DATA 6-PORT OUTLET SINGLE GANG. NUMBER = TOTAL QUANTITY OF JACKS AND CAT 6 CABLES TO EACH DEVICE. TC = TIME CLOCK, COORDINATE EXACT LOCATION WITH OWNER BEFORE ROUGH-IN. SCREEN = INFORMATION SCREEN, COORDINATE EXACT LOCATION WITH OWNER BEFORE ROUGH-IN. INSTALL WITHIN 4" x 4" EXTRA DEEP BOX AT +18" A.F.F., U.O.N.
	COMBINATION TELEVISION/DATA 4-PORT OUTLET. PROVIDE 1-DATA AND 1-TELEVISION JACK WITHIN RECEPTACLE. PROVIDE (1) CAT.6 CABLE AND (1) COAX CABLE. INSTALL WITHIN 4" x 4" EXTRA DEEP BOX.
	RECESSED POKE-THROUGH OUTLET IN FLOOR WITH FURNITURE FEED. REFER TO KEYNOTES FOR QUANTITY OF CAT.6 CABLES TO BE INSTALLED.
	CONDUIT CONCEALED IN GROUND OR FLOOR.
	CONDUIT UP AND DOWN RESPECTIVELY.
	ELECTRIC STRIKE PROVIDED BY DOOR HARDWARE CONTRACTOR
	CARD ACCESS POINT. PROVIDE 1-GANG BOX WITH (2)-1/2" WITH PULLSTRINGS. STUBBED OUT ABOVE NEAREST ACCESSIBLE CEILING FOR CONTROL AND POWER WIRING. MOUNT BOX AT +48" AFT U.O.N.
	ACCESS CONTROL KEYPAD (TO ACTIVATE/DEACTIVATE SYSTEM) MOUNT AT +54" AFF MAX.
	SECURITY CAMERA
	WIRELESS ACCESS POINT; DEVICE PROVIDED BY OWNER.
	LIGHT FIXTURE. "A" INDICATES FIXTURE TYPE. REFER TO LIGHT FIXTURE SCHEDULE ON E.1
	LIGHT FIXTURE WITH HALF SOLID SHADING INDICATES FIXTURE IS TO CONTAIN AN EMERGENCY BATTERY BACKUP. REFER TO LIGHT FIXTURE SCHEDULE ON E.1.
	CEILING MOUNTED SPEAKER, TIED TO PAGING SYSTEM
	WALL MOUNTED SPEAKER, TIED TO PAGING SYSTEM
	PHOTOCELL
	BRANCH CIRCUIT HOME-RUN SYMBOLOLOGY: SOLID CIRCLE INDICATES GROUND CONDUCTOR LONG LINE INDICATES NEUTRAL CONDUCTOR(S) SHORT LINE INDICATES PHASE CONDUCTOR(S)

ABBREVIATIONS:

A	AMPERES	MLO	MAIN LUG ONLY
A.F	AMPERE FUSE	MTS.	MANUAL TRANSFER SWITCH
A.F.C.	ABOVE FINISHED COUNTER	NEC	NATIONAL ELECTRICAL CODE
A.F.F.	ABOVE FINISHED FLOOR	NL	NON-SWITCHED NIGHT LIGHT
A.F.G.	ABOVE FINISHED GRADE	NTRL.	NEUTRAL
A.I.C.	AMPERES INTERRUPTING CAPACITY	NTS	NOT TO SCALE
ATS	AUTOMATIC TRANSFER SWITCH	OL.	OVERLOADS
A.W.G.	AMERICAN WIRE GAUGE	P	POLE
BSMT.	BASEMENT	POE	POWER OVER ETHERNET
C.	CONDUIT	Ø	PHASE
C.B.	CIRCUIT BREAKER	RCPT.	RECEPTACLE
DED.	DEDICATED	RECEPT.	RECEPTACLE
DFA	DROP FROM ABOVE	RM.	ROOM
DIV.	DIVISION	SP.	SPARE
D.S	DISCONNECT SWITCH	SPEC	SPECIFICATIONS
EX	EXISTING TO REMAIN	SSOL	SOLID STATE OVERLOADS
EC	ELECTRICAL CONTRACTOR	ST	SAFETY TYPE
FAAP	FIRE ALARM ANNUNCIATOR PANEL	SW.	SWITCH
FACP	FIRE ALARM CONTROL PANEL	T.B.I.	TO BE INSTALLED
G.	GROUND	T.B.R.	TO BE REMOVED
GFI	GROUND FAULT INTERRUPT	TWSH.	TWISTED SHIELDED
GFCI	GROUND FAULT CIRCUIT INTERRUPT	TYP.	TYPICAL
GRND	GROUND	U.O.N.	UNLESS OTHERWISE NOTED
H.O.A.	HAND OFF AUTOMATIC	U.P.S.	UNINTERRUPTABLE POWER SOURCE
H.L.O.A.	HIGH LOW OFF AUTOMATIC	V	VOLTS
HNDLR	HANDLER	V.F.D.	VARIABLE FREQUENCY DRIVE
KAIC	KILO-AMPERES INTERRUPTING CAPACITY	W	WIRE
KVA	KILO-VOLT-AMPS	WP	WEATHERPROOF
KW	KILOWATTS		
LTG.	LIGHTING		
MCB	MAIN CIRCUIT BREAKER		
MCC	MOTOR CONTROL CENTER		
MFR.	MANUFACTURER		

ONE-LINE DIAGRAM SYMBOLS:

	MAIN LUG ONLY PANELBOARD. "PANEL" INDICATES PANEL DESIGNATION. "120/208" INDICATES PANEL OPERATING VOLTAGE. "3Ø, 4W" INDICATES PHASE AND WIRE. "200A 3P" INDICATES 3 POLE MAIN LUGS RATED FOR 200A.
	MAIN CIRCUIT BREAKER PANELBOARD. "PANEL" INDICATES PANEL DESIGNATION. "120/208" INDICATES PANEL OPERATING VOLTAGE. "3Ø, 4W" INDICATES PHASE AND WIRE. "200A 3P" INDICATES 3 POLE MAIN LUGS RATED FOR 200A.
	FUSED SWITCH. TOP NUMBER INDICATES SWITCH RATING IN AMPERES. BOTTOM NUMBER INDICATES FUSE RATING IN AMPERES.
	THERMAL MAGNETIC CIRCUIT BREAKER. TOP NUMBER INDICATES TRIP RATING IN AMPERES. BOTTOM NUMBER INDICATES FRAME RATING IN AMPERES.
	BUS BAR.
	FEEDER CIRCUIT.
	MOTOR WITH HORSEPOWER INDICATED.
	TRANSFORMER. PRIMARY VOLTAGE, SECONDARY VOLTAGE, RATING IN KVA AS INDICATED. K FACTOR AS INDICATED.
	GROUND.
	NON-FUSED DISCONNECT SWITCH. NUMBER INDICATES RATING IN AMPERES.
	ENCLOSURE OUTLINE.
	CABLE/CONDUIT EQUIPMENT SCHEDULE NUMBER.
	AUTOMATIC TRANSFER SWITCH
	SWITCHBOARD

DEMOLITION NOTES:

- ALL EXISTING SYSTEMS (LIGHTING, POWER, SYSTEMS) TO BE REMOVED COMPLETE, UNLESS OTHERWISE NOTED. DISCONNECT AND REMOVE ALL ASSOCIATED ELECTRICAL ITEMS (I.E. CABLE, CONDUIT, SUPPORTS, DISCONNECTS, ETC) COMPLETE BACK TO SOURCE.
- WHERE EXISTING EQUIPMENT OR MATERIALS ARE REMOVED OR CHANGED, ALL BRANCH CONDUITS WHICH NO LONGER ARE IN SERVICE, SHALL BE REMOVED.
- ALL BUILDING SURFACES DAMAGED, OR OPENINGS LEFT BY REMOVAL OF BOXES, PIPING OR OTHER EQUIPMENT, SHALL BE REPAIRED BY THE CONTRACTOR.
- WHERE NEW OPENINGS ARE CUT AND CONCEALED CONDUITS, ETC ARE ENCOUNTERED THEY SHALL BE REMOVED OR RELOCATED AS REQUIRED, WHERE CONDUIT TO BE REMOVED TO THE POINT WHERE THE FINISH SURFACES CAN BE PATCHED ADEQUATELY SO THAT NO EVIDENCE OF THE FORMER INSTALLATION REMAINS.
- REFER TO THE ARCHITECTURAL DRAWINGS WHICH SHOW THE TOTAL DEMOLITION IN SPECIFIC AREAS. CONTRACTOR SHALL COOPERATE IN THIS DEMOLITION TO ENSURE THAT POWER IS OFF AND THAT ELECTRICAL EQUIPMENT WHICH MUST REMAIN IS PROPERLY PROTECTED.
- SALVAGE: ALL RE-USABLE DEVICES, FIXTURES AND EQUIPMENT SHALL BECOME THE PROPERTY OF THE OWNER AND SHALL BE STORED BY THE CONTRACTOR IN A ROOM TO BE DESIGNATED BY THE OWNER. ALL OTHER SALVAGE AND DEBRIS SHALL BE REMOVED FROM THE PREMIS DAILY.

GENERAL NOTES:

- DRAWINGS ARE DIAGRAMMATIC. ALL DIMENSIONS SHOWN ARE APPROXIMATE. ALL LOCATIONS SHALL BE FIELD VERIFIED.
- ALL WORK SHALL BE IN CONFORMANCE WITH THE NATIONAL ELECTRICAL CODE 2017 EDITION , THE OHIO ELECTRICAL CODE AMENDMENTS, LOCAL/MUNICIPAL CODES, AND THE AUTHORITY HAVING JURISDICTION.
- ALL CONNECTIONS TO EQUIPMENT SUBJECT TO MOVEMENT OR VIBRATION SHALL BE LIQUID TIGHT FLEXIBLE METAL CONDUIT, NOT LESS THAN 12" IN LENGTH, NOR GREATER THAN 36" IN LENGTH.
- PENETRATIONS THROUGH FIRE RATED WALLS BY DIVISION 26 CONTRACTOR SHALL BE SEALED WITH THE APPROPRIATE FIRE STOPPING MATERIAL TO MAINTAIN WALL FIRE RATING. SEE ARCHITECTURAL DRAWING FOR FIRE RATED WALL LOCATIONS.
- SEE MECHANICAL DRAWINGS FOR MECHANICAL EQUIPMENT RATINGS AND SIZES.
- ALL POWER AND LIGHTING CIRCUITS SHALL BE MINIMUM (2) #12, AND (1) #12 G, IN 3/4" CONDUIT UNLESS OTHERWISE NOTED. CIRCUITS EXCEEDING 125 FEET IN LENGTH SHALL BE MINIMUM (2) #10, AND (1) #10 G, IN 3/4" CONDUIT UNLESS OTHERWISE NOTED.
- ALL CONTROL WIRING SHALL BE NOT LESS THAN (2) #14, (1) #14G, 3/4" C, UON.
- ALL CABLES INSTALLED IN AIR HANDLING PLENUMS SHALL BE PLENUM RATED CABLE.
- HOME RUNS SHALL NOT BE COMBINED IN A RACEWAY UNLESS SHOWN ON THE CONTRACT DRAWINGS. SINGLE PHASE BRANCH CIRCUIT HOME RUNS MAY BE COMBINED AT THE CONTRACTOR'S DISCRETION NOT GREATER THAN (3) PHASE CONDUCTORS, (3) NEUTRAL CONDUCTORS, AND REQUIRED GROUNDING CONDUCTOR(S). CONTRACTOR MUST INCREASE WIRE SIZE AND DERATE CONDUCTOR CAPACITY ACCORDING TO NEC.
- EACH SINGLE PHASE BRANCH CIRCUIT CONDUCTOR SHALL HAVE A DEDICATED NEUTRAL BACK TO THE PANELBOARD.
- SUPPORTING WIRE FOR THE SUSPENDED CEILING GRID SHALL NOT BE USED AS RACEWAY SUPPORT.
- DISCONNECT SWITCH RATINGS SHALL BE AS INDICATED ON THE DRAWINGS.
- MAJOR FEEDERS FROM THE SWITCHBOARD TO PANELBOARDS, TRANSFORMERS, MOTORS AND OTHER LARGE EQUIPMENT ARE NOT SHOWN ON THE FLOOR PLAN DRAWINGS. THESE FEEDERS ARE INCLUDED WITHIN THE SCOPE OF THE ELECTRICAL WORK AND ARE SHOWN ON THE ONE-LINE DIAGRAM.
- ALL FIRE ALARM CABLING SHALL BE RED, PLENUM RATED, AND INSTALLED IN RED CONDUIT.
- HVAC CONTROL WIRING AND CONDUITS FURNISHED AND INSTALLED BY MECHANICAL CONTRACTOR. POWER TO THE BMS CONTROL PANEL PROVIDED BY DIVISION 26.
- INDOOR CONTROL EQUIPMENT ENCLOSURES SHALL BE NEMA 1 RATED U.O.N. ALL EXTERIOR ENCLOSURES SHALL BE NEMA 3R UNLESS OTHERWISE NOTED.
- ALL CONDUITS CROSSING EXPANSION JOINTS SHALL BE INSTALLED WITH EXPANSION FITTINGS, UNLESS THE CONDUIT IS BELOW SLAB IN THE COMPACTED GRANULAR FILL. EXPANSION FITTINGS SHALL BE INSTALLED IN ACCORDANCE WITH THE NEC AND MANUFACTURER'S WRITTEN RECOMMENDATIONS. REFER TO STRUCTURAL DRAWINGS FOR EXPANSION JOINT LOCATIONS.
- THE CONTRACTOR SHALL COORDINATE RECEPTACLE HEIGHTS AND LOCATIONS WITH THE CASEWORK SHOP DRAWINGS TO DETERMINE EXACT FINAL LOCATIONS AND HEIGHTS FOR OUTLET INSTALLATION.
- TEMPERATURE CONTROL CONTRACTOR RESPONSIBLE FOR LOCATION AND QUANTITY OF TRANSFORMERS REQUIRED FOR 24V CONTROL COMPONENTS. COORDINATE WITH DIVISION 26 TO PROVIDE REQUIRED POWER TO COMPONENTS.
- TO REDUCE NOISE BETWEEN WALLS, CONTRACTOR SHALL:
 - AVOID INSTALLING POWER RECEPTACLES OR DATA OUTLETS LOCATED BACK TO BACK.
 - WHERE OUTLETS ARE REQUIRED TO BE LOCATED BACK TO BACK, CONTRACTOR SHALL PROVIDE SOUNDPROOFING MATERIAL BETWEEN JUNCTION BOXES
- THE WORD "PROVIDE" IS TO BE DEFINED AS "FURNISH AND INSTALL".
- ELEVATOR SHAFTS SHALL NOT BE USED FOR NON-ELEVATOR RELATED ITEMS (I.E. PIPING, CONDUITS, ETC.)

LANCASTER

DRAWING NUMBER

E1.0

OHIO

FAIRFIELD COUNTY AUDITOR'S OFFICE
REAL ESTATE DEPARTMENT

GENERAL NOTES, SYMBOLS & ABBREVIATIONS

DATE

12/5/2018

ELECTRICAL

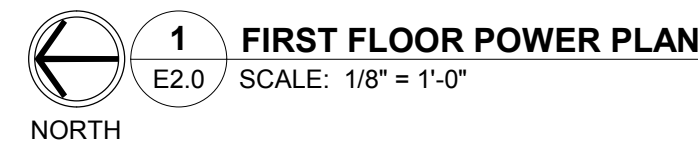
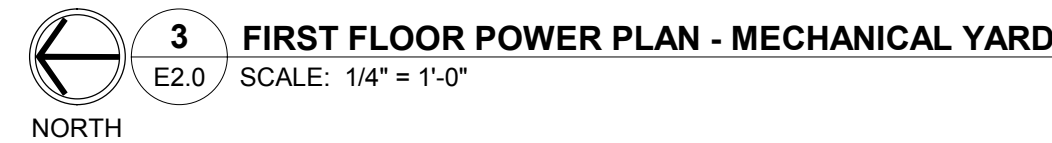
DLZ

ARCHITECTURE • ENGINEERING • PLANNING
SURVEYING • CONSTRUCTION SERVICES

DLZ OHIO, INC

REGISTERED PROFESSIONAL ENGINEER
TIMOTHY K. FOUGHT
77091
12.06.12 to 18

DRAWN: ROW
DESIGNED: ROW
APPROVD: TKF
DATE: DECEMBER 06, 2018
PROJECT NUMBER
1821-7001-50



- A. FOR PANELBOARD SCHEDULES, SEE DRAWINGS E5.2.
- B. FOR SERVICE GROUNDING ELECTRODE SCHEMATIC, SEE DETAIL #2 ON DRAWING E5.1.
- C. SEE MECHANICAL EQUIPMENT - ELECTRICAL CONNECTION SCHEDULE ON DRAWING E5.0 FOR EQUIPMENT CIRCUITING AND ADDITIONAL ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT (I.E. DISCONNECT, STARTER, ETC) AND LOAD INFORMATION.
- D. CONTRACTOR SHALL COORDINATE ALL DEVICE HEIGHTS AND EXACT LOCATIONS WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATION DETAILS.
- E. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.
- F. WIRING DEVICES AND RACEWAYS ON EXISTING WALLS TO BE SURFACE MOUNTED, U.N.O. RACEWAYS AND RACEWAY ACCESSORIES SHALL BE LOW PROFILE, NON-METALLIC RACEWAY SUITABLE TO FINISHED OFFICE AREAS. (I.E. LEGRAND/WIREMOLD 400/800/2300 SERIES OR APPROVED EQUAL). INSTALL IN NEAT AND WORKMANLIKE MANNER TO MINIMIZE LENGTHS, BENDS, ELBOWS, ETC. PAINT RACEWAYS TO MATCH WALL FINISH COLOR.
- G. NOT ALL KEYNOTES ARE USED ON EVERY SHEET.

P1 PROVIDE ONE 4" FURNITURE FEED POKE-THRU DEVICE LIKE WIREMOLD #4FFATC10 OR APPROVED EQUIV. PROVIDE 3/4" FLEX FEED TO FURNITURE. COORDINATE EXACT LOCATION BEFORE ROUGH-IN. CONNECT TO DEVICE USING #212-G. IN 3/4"C.

P2 RECEPTACLE FOR TV. COORDINATE EXACT LOCATION WITH OWNER BEFORE ROUGH-IN. TV AND MOUNTING BRACKET PROVIDED BY OWNER. INSTALLED BY CONTRACTOR.

P3 AUTOMATIC FLUSH VALVE. REFER TO AUTOMATIC ELECTRONIC FLUSH VALVE DETAIL #7 ON SHEET E5.3.

P4 MAIN GROUND BUS BAR #1. REFER TO BUILDING GROUND BUS DETAIL #5 ON SHEET E5.3. MOUNT AT +7'-0" AFF.

P5 PROVIDE (1) FLUSH IN CONCRETE 3-GANG FLOOR BOX LIKE WALKER #H80CS3-10 OR APPROVED EQUIV. FURNISH WITH 3-GANG BRASS #3/8"X1/2" FLANGE (#637B). (2) FLIP LIDS (#628B) FOR TWO 20A DUPLEX RECEPTACLES AND (3) COUPLER PLATE (#628COM) FOR FOUR CAT-6 COMMUNICATIONS CABLES. VERIFY EXACT LOCATION WITH OWNER AND ARCHITECT BEFORE ROUGH-IN.

P6 NEW DEVICE TO BE SURFACE MOUNTED ON EXISTING WALL.

P7 1-GANG WALL BOX WITH FURNITURE FEED FOR POWER TO MODULAR FURNITURE. PROVIDE 3/4" FLEX FEED TO FURNITURE. COORDINATE EXACT LOCATION BEFORE ROUGH-IN. CONNECT TO DEVICE USING #212-G. IN 3/4"C.

P8 CONNECT TO CIRCUIT SHOWN ON SHEET E5.3.

P9 FURNISH AS REQUIRED. SINGLE SWITCH FOR GARBAGE DISPOSAL. CONTROL WITH WAVEYARD AND CONDUCTORS FROM SWITCH TO GARBAGE DISPOSAL UNIT, 1/2HP, 120V. MOUNT SWITCH ABOVE COUNTERTOP. CIRCUIT AS SHOWN.

P10 FURNISH ONE 8" POKE-THRU DEVICE LIKE WIREMOLD #8AT EVOLUTION SERIES OR APPROVED EQUIV. DEVICE TO HAVE (4) 20A DUPLEX RECEPTACLES AND PROVIDE FOR FUTURE 1/2" LONG 20A PINS. FINISH TO BE SELECTED BY ARCHITECT. PROVIDE WITH (2) #8DP AND (1) #8ASTA CENTER MOUNT DEVICE PLATES AND (2) #8RRC2 SIDE MOUNT DEVICE PLATES. COORDINATE EXACT LOCATION BEFORE ROUGH-IN. PROVIDE ALL ACCESSORIES NEEDED FOR A COMPLETE INSTALLATION. CONNECT TO DEVICE USING #212-G. IN 3/4"C.

P11 FURNISH AND INSTALL NEW 20A DUPLEX RECEPTACLE IN SAME BOX AS REMOVED RECEPTACLE. CIRCUIT AS SHOWN.

P12 AUTOMATIC DOOR OPENER. PUSHBUTTONS BY MANUFACTURER. WIRE PER MANUFACTURER'S RECOMMENDATION. 120V. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.

P13 ELECTRIC DOOR. VERIFY WITH MANUFACTURER ALL FINAL CONNECTIONS.

P14 NON-GFCI RECEPTACLE FOR SUMP PUMP. MOUNT ON PIT WALL NEAR SUMP BASIN. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.

P15 ELEVATOR DISCONNECT SWITCH 2C-ELEV. SWITCH PROVIDED BY ELEVATOR SUPPLIER. MOTOR AND FAN POWER. CIRCUIT AS SHOWN. COORDINATE EXACT LOCATION WITH ELEVATOR SUPPLIER. SWITCH WITH TOP A MINIMUM OF 6" BELOW BOTTOM OF ENTRY DOOR INTO PIT. COORDINATE EXACT LOCATION WITH ELEVATOR SUPPLIER. CONNECT TO CIRCUIT SHOWN USING #410 + #10G. IN 2"C.

P16 FURNISH AND INSTALL NEW 3R, SURFACE, 30A LOCKABLE MOTOR RATED TOGGLE SWITCH WITH WEATHERPROOF COVER FOR DISCONNECTING THE 120V ELEVATOR COIL MOTOR AND FAN POWER. CIRCUIT AS SHOWN. COORDINATE EXACT LOCATION WITH ELEVATOR SUPPLIER.

P17 CONTROL PANEL "CP-0", 120V. PANEL TO BE PROVIDED BY OWNER. CONNECT TO CIRCUIT SHOWN USING #212-G. IN 3/4"C.

P18 NEW ELECTRIC UTILITY METER "M-1" LOCATION. REFER TO ONE-LINE DIAGRAM ON SHEET E5.0 FOR MORE INFORMATION.

P19 NEW 3-1/2" RACEWAY #100 FROM NEW UTILITY METER "M-1" TO NEW MAIN DISTRIBUTION PANEL "MP-1" AND TO COND. AND CABLE SCHEDULE ON DRAWING E5.0 FOR MORE INFORMATION. PROVIDE SLEEVE FOR PENETRATOR THRU EXISTING WALL. REFER TO LINK SEAL DETAIL. OUTDOOR PENETRATIONS THROUGH WALL DETAIL #4 ON DRAWING E5.3.

P20 TRI-ROD GROUND. SPACE GROUND ELECTRODE RODS A MINIMUM OF 10'-0" APART.

P21 #10 AWG BARE COPPER CABLE.

P22 FURNISH AND INSTALL A 3/4" DIA., 10'-0" LONG COPPER GROUND ROD.

P23 GROUNDING BUS BAR AND LOOP.

P24 PROVIDE GROUND TEST WELL FOR ONE (1) OF THREE GROUNDING ELECTRODES. REFER TO DETAIL #5. SHEET E5.3.

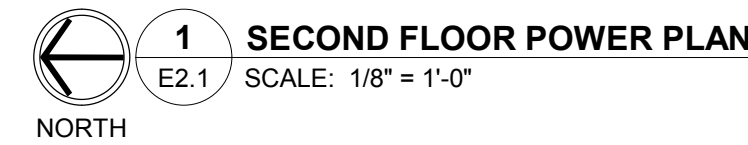
P25 NEW WATER METER. BOND TO MAIN GROUND BUS BAR #1 IN BASEMENT. REFER TO DETAIL #2. SHEET E5.1.

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DRAWN: RDW	CHK'D: MLH
DESIGNED: RDW	
APPR'D: TKF	
DATE: DECEMBER 06, 2018	
PROJECT NUMBER	
1821-7001-50	

LANCASTER	OHIO
FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT	
LOWER LEVEL AND FIRST FLOOR POWER PLANS	

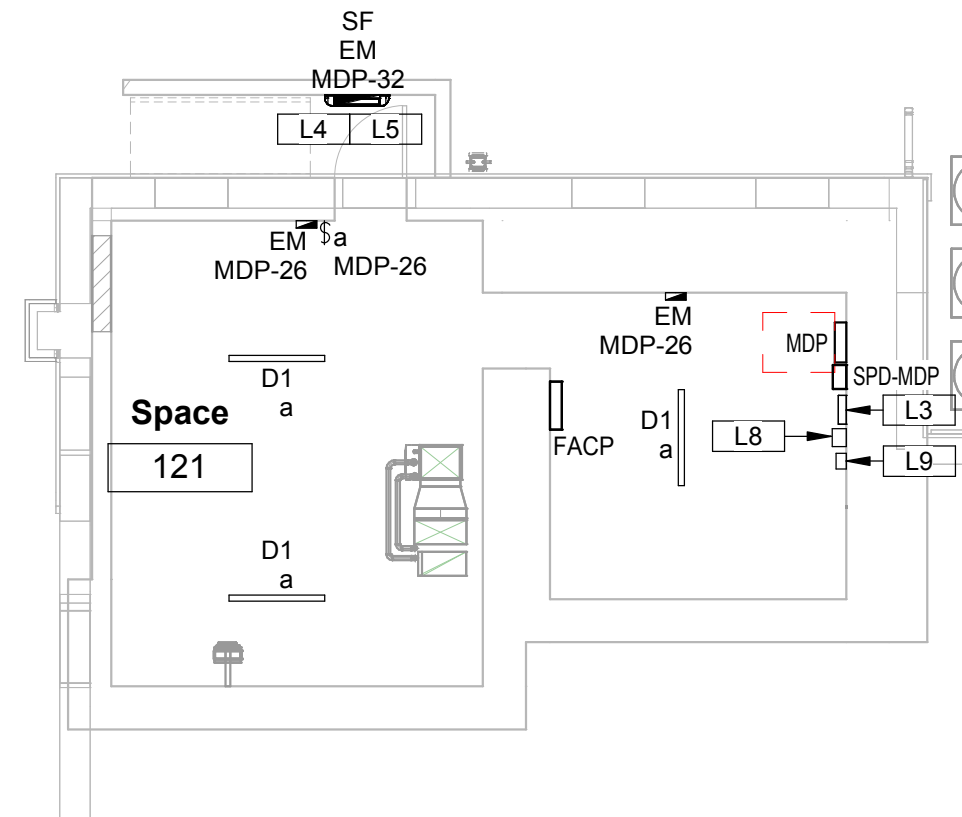
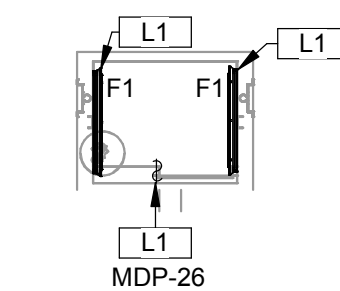
DRAWING NUMBER	E2.0	ELECTRICAL
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- A. FOR PANELBOARD SCHEDULES. SEE DRAWINGS E5.2.
- B. FOR SERVICE GROUNDING ELECTRODE SCHEMATIC, SEE DETAIL #2 ON DRAWING E5.1.
- C. SEE MECHANICAL EQUIPMENT - ELECTRICAL CONNECTION SCHEDULE ON DRAWING E5.0 FOR EQUIPMENT CIRCUITING AND ADDITIONAL ELECTRICAL REQUIREMENTS FOR MECHANICAL EQUIPMENT (I.E. DISCONNECT, STARTER, ETC) AND LOAD INFORMATION.
- D. CONTRACTOR SHALL COORDINATE ALL DEVICE HEIGHTS AND EXACT LOCATIONS WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATION DETAILS.
- E. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.
- F. WIRING DEVICES AND RACEWAYS ON EXISTING WALLS TO BE SURFACE MOUNTED, U.O.N. RACEWAYS AND RACEWAY ACCESSORIES SHALL BE LOW PROFILE, NON-METALLIC RACEWAY SUBSTITUTES TO FINISHED OFFICE AREAS (I.E. LEGRAND/WIREMOLD 400/800/2000 SERIES OR APPROVED EQUAL). INSTALL IN NEAT AND WORKMANLIKE MANNER TO MINIMIZE LENGTHS, BENDS, ELBOWS, ETC. PAINT RACEWAYS TO MATCH WALL FINISH COLOR.
- G. NOT ALL KEYNOTES ARE USED ON EVERY SHEET.

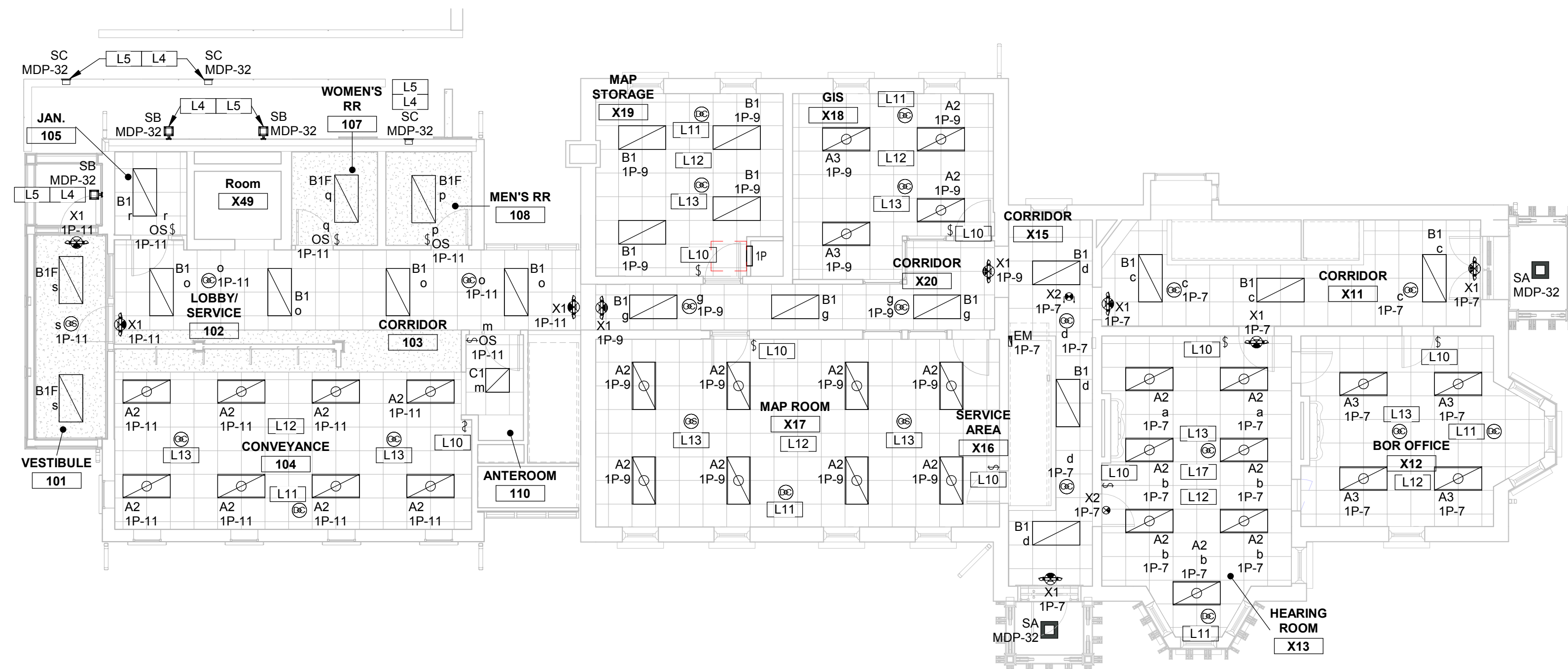
P1	PROVIDE ONE (4) FURNITURE FEED POKE-THRU DEVICE LIKE WIREMOLD #4FFATC15 OR APPROVED EQUAL. PROVIDE 3/4" FLEX FEED TO FURNITURE. COORDINATE EXACT LOCATION BEFORE ROUGH-IN. CONNECT TO DEVICE USING #12-2/0, IN 3/4".
P2	RECEPTACLE FOR TV. COORDINATE EXACT LOCATION WITH OWNER. BEFORE ROUGH-IN, TV AND MOUNTING BRACKET PROVIDED BY OWNER, INSTALLED BY CONTRACTOR.
P3	AUTOMATIC FLUSH VALVE, REFER TO AUTOMATIC ELECTRONIC FLUSH VALVE DETAIL #7 ON SHEET E5.3.
P4	MAIN GROUND BUS BAR #1. REFER TO BUILDING GROUND BUS DETAIL #5 ON SHEET E5.3. MOUNT AT +7'-0" AFF.
P5	PROVIDE (1) FLUSH IN CONNECTION 3-GANG FLOOR BOX LIKE WALKER #300CS-1 OR APPROVED EQUAL. FINISH WITH 3-GANG BRASS CARPET TILE FLANGE (#83279), (2) FLIP LIDS (#82387) FOR TWO 20A DUPLEX RECEPTACLES AND (1) COVER PLATE (#826COM) FOR FOUR CAT.6 COMMUNICATIONS CABLES. VERIFY EXACT LOCATION WITH OWNER AND ARCHITECT BEFORE ROUGH-IN.
P6	NEW DEVICE TO BE SURFACE MOUNTED ON EXISTING WALL.
P7	1-GANG WALL BOX WITH FURNITURE FEED FOR POWER TO MODULAR FURNITURE. COORDINATE EXACT LOCATION BEFORE ROUGH-IN. COORDINATE EXACT LOCATION WALL BEFORE ROUGH-IN. CONNECT TO DEVICE USING 2#12-G, IN 3/4".
P8	CONNECT TO CIRCUIT SHOWN USING 2#10-G, IN 3/4".
P9	FURNISH AS REQUIRED TOGGLE SWITCH FOR GARBAGE DISPOSAL CONTROL WITH RACEWAY AND CONDUCTORS FROM SWITCH TO GARBAGE DISPOSAL UNIT, 1/2HP, 120V. MOUNT SWITCH ABOVE COUNTERTOP. CIRCUIT AS SHOWN.
P10	FURNISH ONE 8" POKE-THRU DEVICE LIKE WIREMOLD #84T EVOLUTION FURNITURE OR APPROVED EQUAL. COORDINATE EXACT LOCATION WITH OWNER. RECEPTACLES AND PROVISIONS FOR (6) COMMUNICATIONS PORTS. FINISH TO BE SELECTED BY ARCHITECT. PROVIDE WITH (2) #8DP AND (1) #8ACT6A CENTER MOUNT DEVICE PLATES AND (2) #8BREC SIDE MOUNT DEVICE PLATES. COORDINATE EXACT LOCATION BEFORE ROUGH-IN. PROVIDE ALL ACCESSORIES NEEDED FOR COMPLETE INSTALLATION. CONNECT TO DEVICE USING 2#12-G, IN 3/4".
P11	FURNISH AND INSTALL NEW 20A, DUPLEX RECEPTACLE IN SAME BOX AS REMOVED RECEPTACLE. CIRCUIT AS SHOWN.
P12	AUTOMATIC DOOR OPENER, PUSHBUTTONS BY MANUFACTURER, WIRE PER MANUFACTURER'S RECOMMENDATION, 120V. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
P13	ELECTRIC DOOR. VERIFY WITH MANUFACTURER ALL FINAL CONNECTIONS.
P14	NON-GFCI RECEPTACLE FOR SUMP PUMP. MOUNT ON PIT WALL NEAR SUMP. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
P15	ELEVATOR DISCONNECT SWITCH "DIS-ELEV." MOUNT IN ELEVATOR SHAFT BY ELEVATOR SUPPLIER INSTALLED BY E.C. MOUNT IN ELEVATOR WITH TOP A MINIMUM OF 6" BELOW BOTTOM OF ENTRY DOOR INTO PIT. COORDINATE EXACT LOCATION WITH ELEVATOR SUPPLIER. CONNECT TO CIRCUIT SHOWN USING 4#10 + #10G, IN 2".
P16	FURNISH AND INSTALL NEW #6A, 30A LOCKABLE METER RATED TOGGLE SWITCH WITH 1/2" NEMA 3P COVER FOR DISCONNECTING THE 120V ELEVATOR CAB LIGHT AND FAN POWER. CIRCUIT AS SHOWN. COORDINATE EXACT LOCATION WITH ELEVATOR SUPPLIER.
P17	CONTROL PANEL "CP-O", 120V. PANEL TO BE PROVIDED BY OWNER. CONNECT TO CIRCUIT SHOWN USING 2#12-G, IN 3/4".
P18	NEW ELECTRIC UTILITY METER "M-1" LOCATION. REFER TO ONE-LINE DIAGRAM ON SHEET E5.0 FOR MORE INFORMATION.
P19	NEW 3-1/2" RACEWAY #100 FROM NEW UTILITY METER "M-1" TO MAIN GROUND BUS BAR #1. PROVIDE 1/2" MINIMUM COVER. CABLE SCHEDULE ON DRAWING E5.0 FOR MORE INFORMATION. PROVIDE SEAL FOR PENETRATION THRU EXISTING WALL. REFER TO LINK SEAL DETAIL - OUTDOOR PENETRATIONS THROUGH WALL DETAIL #4 ON DRAWING E5.3.
P20	TRI-ROD GROUND SPACE GROUND ELECTRODE RODS A MINIMUM OF 10'-0" APART.
P21	#10 AWG BARE COPPER CABLE.
P22	FURNISH AND INSTALL A 3/4" DIA., 10'-0" LONG COPPER GROUND ROD. CORROSION RESISTANT.
P23	PROVIDE GROUND TEST WELL FOR (1) OF THREE GROUNDING ELECTRODES. REFER TO DETAIL #8, SHEET E5.3.
P24	NEW WATER METER. BOND TO MAIN GROUND BUS BAR #1 IN BASEMENT. REFER TO DETAIL #2, SHEET E5.1.

OHIO	
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 **3** **PARTIAL SITE PLAN - ELECTRICAL**
E3.0 SCALE: 1" = 10'-0"

B. REFER TO SHEET A1.0 FOR ADDITIONAL ELECTRICAL NOTES.

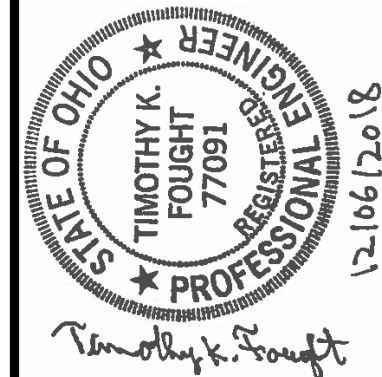


GENERAL NOTES

- A. FOR LIGHTING FIXTURE SCHEDULE, SEE SHEET E5.1. REFER TO REMARKS COLUMN ON LIGHTING FIXTURE SCHEDULE FOR FIXTURE MOUNTING HEIGHTS AND REQUIREMENTS U.O.N. ON THIS DRAWING.
- B. FOR OCCUPANCY SENSOR WIRING DETAIL, SEE DETAIL #2 ON DRAWING E5.3.
- C. FIELD COORDINATE, PRIOR TO CONSTRUCTION, EXACT MOUNTING HEIGHT ALL FIXTURES TO AVOID MECHANICAL DUCTWORK AND EQUIPMENT.
- D. CEILING MOUNTED OCCUPANCY SENSORS SHALL BE MOUNTED IN CENTER OF CEILING TILE U.O.N. COORDINATE EXACT LOCATIONS BEFORE ROUGH-IN.
- E. OCCUPANCY SENSORS ARE SHOWN FOR PURPOSES OF IDENTIFYING ROOMS/AREAS WHERE REQUIRED. COORDINATE WITH MANUFACTURER ON QUANTITY AND LOCATIONS REQUIRED FOR COMPLETE COVERAGE. AT NO ADDITIONAL COST TO OWNER, PROVIDE ADDITIONAL SENSORS ARE REQUIRED FOR COMPLETE COVERAGE. SUBMIT SHOP DRAWINGS INDICATING COVERAGE OF SENSOR(S) FOR EACH SPACE.
- F. PROVIDE POWER PACKS AS REQUIRED FOR OCCUPANCY SENSORS. POWER PACKS ARE NOT SHOWN. FIELD COORDINATE LOCATIONS AND RECORD ON ELECTRICAL RECORD DRAWINGS.
- G. MOUNTING DEVICES AND RACEWAYS ON EXISTING WALLS TO BE SURFACE MOUNTED U.O.N. RACEWAYS AND RACEWAY ACCESSORIES SHALL BE LOW PROFILE, NON-METALLIC RACEWAY SUITABLE TO FINISHED OFFICE AREAS (I.E. LEGRAND/WIREMOLD 400/800/3300 SERIES OR APPROVED EQL). INSTALL IN NEAT AND WORKMANLIKE MANNER TO MINIMIZE BENDS, ELBOWS, ETC. PAINT RACEWAYS TO MATCH WALL FINISH COLOR.
- H. NOT ALL KEYNOTES ARE USED ON EVERY DRAWING.

L# LIGHTING KEYNOTES

- L1 WALL MOUNT TOP OF TYPE F1 LIGHT AND LIGHT SWITCH AT THE TOP OF THE PIT ACCESS LADDER. MOUNT LIGHT HORIZONTALLY DIRECTLY BELOW BOTTOM OF ENTRY DOOR INTO PIT.
- L2 FIXTURE TO BE SURFACE MOUNTED ON BOTTOM OF STRUCTURE.
- L3 NEW 125W CENTRAL INVERTER UNIT LIKE EVENLITE
#PW-12LC-V1-AA-2H OR APPROVED EQUIV. FOR EXTERIOR
EMERGENCY EGRESS LIGHTING. UNIT TO BE 120V, 120WAC WITH LEAD
CALCIUM BATTERIES, 2-HOUR RUN TIME AND AUDIBLE ALARM.
CONNECT TO CIRCUIT M2D-38 USING 2#12-G. IN 3/4"C. CONTROL VIA CONTACTOR
#C1.
- L4 EMERGENCY EGRESS LIGHT FIXTURE. CONNECT CIRCUIT SHOWN THRU
CENTRAL INVERTER UNIT IN BASEMENT.
- L5 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK. REFER TO
EXTERIOR LIGHTING CONTROL DETAIL #8 ON SHEET E5.3. CONNECT TO
CIRCUIT SHOWN USING 2#12-G. IN 3/4"C. CONTROL VIA CONTACTOR
#C1.
- L6 FIXTURE TO BE CONTROLLED ON/OFF VIA TIMECLOCK. REFER TO
EXTERIOR LIGHTING CONTROL DETAIL #8 ON SHEET E5.3. CONNECT TO
CIRCUIT SHOWN USING 2#10-G. IN 3/4"C. CONTROL VIA CONTACTOR
#C1.
- L7 FIXTURE TO BE CONTROLLED ON/OFF VIA PHOTOCELL. REFER TO
EXTERIOR LIGHTING CONTROL DETAIL #8 ON SHEET E5.3. CONNECT TO
CIRCUIT SHOWN USING 2#10-G. IN 3/4"C. CONTROL VIA CONTACTOR
#C2.
- L8 LIGHTING CONTRACTORS, L1 AND L2, REFER TO EXTERIOR LIGHTING
CONTROL DETAIL #8 ON SHEET E5.3.
- L9 NEW TIME CLOCK FOR CONTROL OF EXTERIOR LIGHTING. REFER TO
EXTERIOR LIGHTING CONTROL DETAIL #8 ON SHEET E5.3.
- L10 6-BUTTON LIGHTING CONTROL WALL STATION, LIKE EATON
#RC-6T5B-P4-XX OR APPROVED EQUIV. FINISH TO BE SELECTED BY
ARCHITECT. WALL STATION TO BE COMPATIBLE WITH SELECTED ROOM
CONTROLLER. REFER TO TYPICAL WIRING DIAGRAM ON SHEET E5.1,
DETAIL #1.
- L11 DAYLIGHTING SENSOR, LIKE EATON #DSRC-FMOIR OR APPROVED
EQUIV. SENSOR TO BE CEILING MOUNTED AND BE COMPATIBLE WITH
SELECTED ROOM CONTROLLER. REFER TO TYPICAL WIRING DIAGRAM
ON SHEET E5.1, DETAIL #1.
- L12 PROVIDE ONE #RC3D-P1 CONTROLLER IN ROOM. CONTROLLER TO BE
LIKE EATON #RC3D-P1 OR APPROVED EQUIV. PROVIDE WITH (3)
RELAYS, (3) 0-10V DIMMING. UNIT TO BE MOUNTED ABOVE ROOM
CEILING, 120V. REFER TO TYPICAL WIRING DIAGRAM ON SHEET E5.1,
DETAIL #1. CONNECT CONTROLLER TO SAME CIRCUIT AS ROOM
LIGHTING USING 2#12-G. IN 3/4"C.
- L13 OCCUPANCY SENSOR TO BE COMPATIBLE WITH SELECTED ROOM
CONTROLLER.
- L14 NEW 20A TOGGLE SWITCH WITH PILOT LIGHT FOR CONTROL OF ATTIC
LIGHTS.
- L15 ALL ATTIC LIGHTS CONTROLLED FROM DEVICE AT BOTTOM OF ACCESS
STAIRS. REFER TO SECOND FLOOR LIGHTING PLAN, DETAIL 1 ON SHEET
E3.1.
- L16 PHOTOCELL FOR CONTROL OF EXTERIOR LIGHTS. PHOTOCELL TO BE
LIKE TORX #EPC1 OR APPROVED EQUIV. MOUNT AS HIGH AS POSSIBLE
ON PHOTOCELL. REFER TO EXTERIOR LIGHTING WIRING DIAGRAM, DETAIL #10
ON SHEET E5.3.
- L17 ROOM LIGHTING CONTROL - SCENE 1 = ALL LIGHTING ON; SCENE 2 = 'b'
LIGHTS ON; 'a' LIGHTS OFF.



DESIGNED: ROW	CHK'D: MUE	NO.	REVISION	DATE
APPROVED: TKF				
DATE: DECEMBER 06, 2018				
PROJECT NUMBER				
1821-7001-50				

OHIO

FAIRFIELD COUNTY AUDITOR'S OFFICE
REAL ESTATE DEPARTMENT

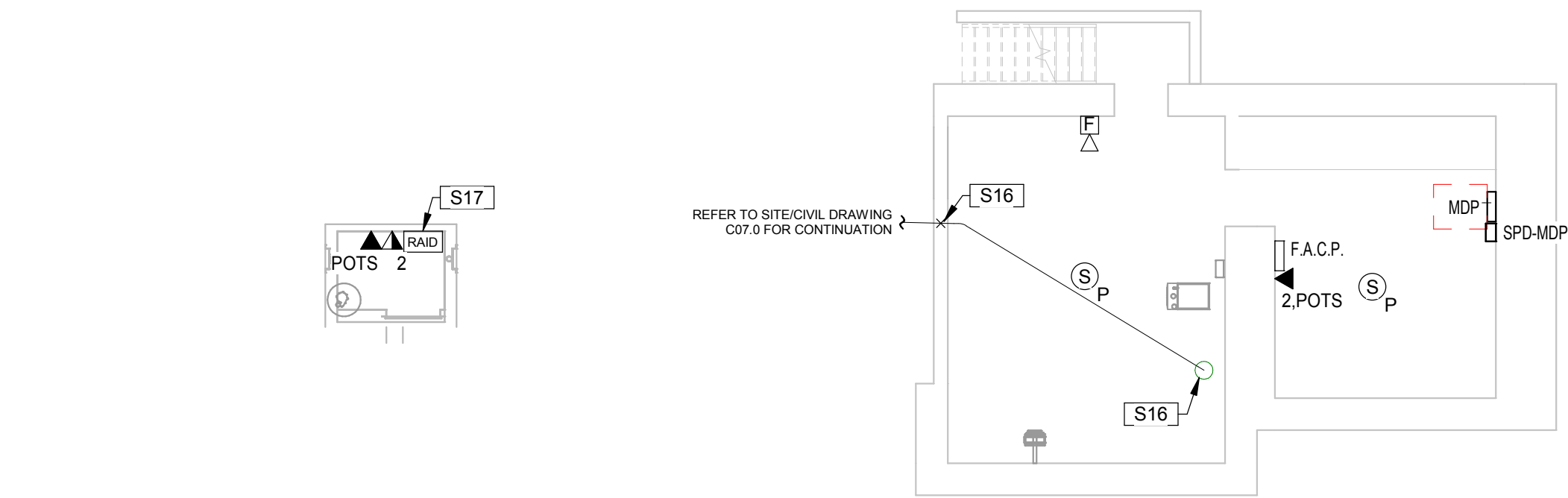
LOWER LEVEL AND FIRST FLOOR LIGHTING PLANS


E3.0

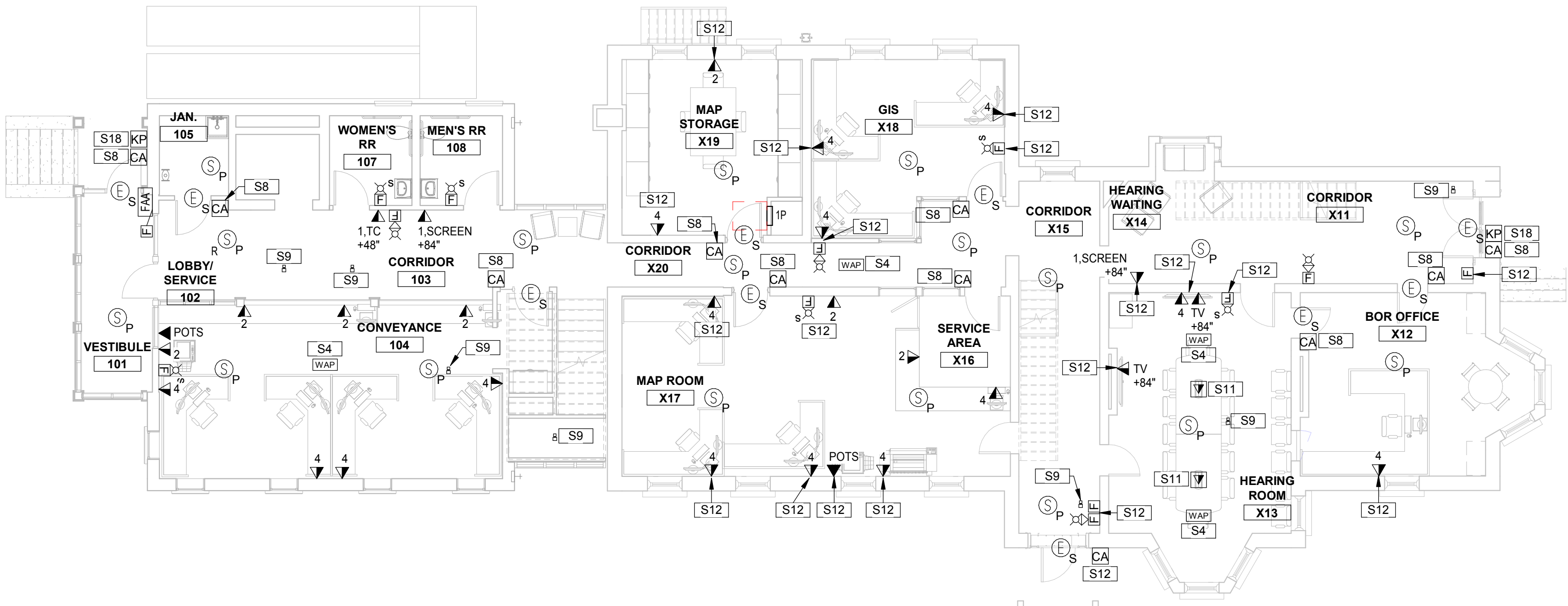
ELECTRICAL

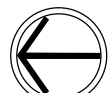


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 **2 LOWER LEVEL SYSTEMS PLAN**
E4.0 SCALE: 1/8" = 1'-0"
NORTH



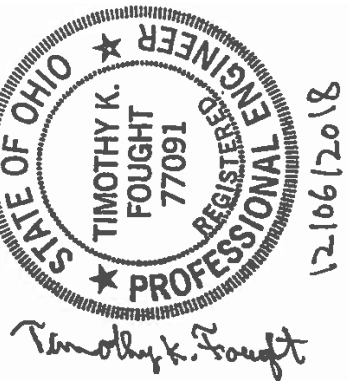
 **1 FIRST FLOOR SYSTEMS PLAN**
E4.0 SCALE: 1/8" = 1'-0"
NORTH

GENERAL NOTES

- CONTRACTOR SHALL COORDINATE ALL DEVICE HEIGHTS AND EXACT LOCATIONS WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATION DETAILS.
- REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED PUTTY AROUND BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.
- REFER TO DRAWING E5.3, DETAIL #1 FOR FIRE ALARM DEVICES MOUNTING REQUIREMENTS PER NFPA.
- ALL FIRE ALARM CONDUITS SHALL BE FACTORY PAINTED "RED". ALL PULL/JUNCTION BOX COVERS SHALL BE FACTORY PAINTED RED.
- WIRING DEVICES AND RACEWAYS ON EXISTING WALLS TO BE SURFACE MOUNTED, U.O.N. RACEWAYS AND RACEWAY ACCESSORIES SHALL BE LOW PROFILE, NON-METALLIC RACEWAY SUITABLE TO FINISHED OFFICE AREAS (I.E. LEGRAND/WIREMOLD 400/800/2300 SERIES OR APPROVED EQUAL). INSTALL IN NEAT AND WORKMANLIKE MANNER TO MINIMIZE BENDS, ELBOWS, ETC. PAINT RACEWAYS TO MATCH WALL FINISH COLOR.
- REFER TO DRAWING A3.2, GENERAL NOTE E, FOR ACCESS CONTROL REQUIREMENTS.
- NOT ALL KEYNOTES ARE USED ON EVERY SHEET.

SYSTEMS KEYNOTES

- EQUIPMENT RACK FOR DATA EQUIPMENT (SERVERS, SWITCHES, PATCH PANEL(S) AND UPS, ETC) FURNISHED BY OWNER.
- GROUND BUS BAR NO.2. MOUNT AT +7'-0" AFF. REFER TO TELE-DATA EQUIPMENT GROUND BUS DETAIL #4, DRAWING E5.3. BOND TO MAIN GROUND BUS BAR NO.1 (IN LOWER LEVEL ELECTRICAL ROOM) USE #1/0 AWG COPPER GREEN INSULATED CABLE.
- STUB 2-3" OUT INTO 1ST FLOOR ACCESSIBLE CEILING SPACE FOR DATA/TEL CABLES
- WIRELESS ACCESS POINT (WAP) LOCATED ON CEILING. WAP PROVIDED BY OWNER. INSTALLED BY CONTRACTOR. FURNISH AND INSTALL (2) CAT6 DATA CABLES WITH 10' OF SLACK FOR FINAL PLACEMENT OF DEVICE.
- NEW FURNITURE FEED POKE-THRU. REFER TO KEYNOTE #P1 ON SHEET #E2.1 FOR MORE INFORMATION. FURNISH AND INSTALL FOUR (4) CAT6 CABLES TO FURNITURE. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
- NEW FURNITURE FEED POKE-THRU. REFER TO KEYNOTE #P1 ON SHEET #E2.1 FOR MORE INFORMATION. FURNISH AND INSTALL EIGHT (8) CAT6 CABLES TO FURNITURE. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
- #1/0 AWG COPPER GREEN INSULATED GROUND CABLE. BOND TO MAIN GROUND BUS #1 (IN MECHANICAL #1502). REFER TO DETAIL #5, DRAWING E5.3.
- CARD ACCESS POINT. PROVIDE 1-GANG RECESSED BOX WITH (2)-1/2"C. STUBBED OUT ABOVE ACCESSIBLE CEILING FOR CONTROL WIRING AND DATA. COORDINATE EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.
- POWER OVER ETHERNET SECURITY CAMERA. CAMERA PROVIDED BY OWNER. INSTALLED BY CONTRACTOR. FURNISH AND INSTALL (1) CAT6 DATA CABLE WITH 10' OF SLACK FOR FINAL PLACEMENT OF CAMERA.
- NEW 8" POKE-THRU DEVICE. REFER TO KEYNOTE #P10 ON SHEET #E2.1 FOR MORE INFORMATION. FURNISH AND INSTALL (4) CAT 6 CABLES TO DEVICE. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
- NEW CONCRETE FLOOR BOX. REFER TO KEYNOTE #P5 ON SHEET #E2.1 FOR MORE INFORMATION. FURNISH AND INSTALL FOUR (4) CAT6 CABLES AND ASSOCIATED JACKS TO EACH BOX. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
- NEW DEVICE(S) TO BE SURFACE MOUNTED ON EXISTING WALL.
- NEW FURNITURE FEED POKE-THRU. REFER TO KEYNOTE #P1 ON SHEET #E2.0 FOR MORE INFORMATION. FURNISH AND INSTALL FOUR (6) CAT6 CABLES TO FURNITURE. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.
- UNIT PROVIDED WITH DUCT SMOKE DETECTOR IN RETURN DUCT. PROVIDE ADDRESSABLE CONNECTION AS NEEDED TO FACP IN LOWER LEVEL.
- PROVIDE (1) CAT6 CABLE FROM PANEL 'CP-0' TO COUNTY IT SERVER. VERIFY WITH OWNER EXACT LOCATION OF SERVER.
- NEW 4"C. WITH PULLSTRING UP TO IT/DATA #X21 FOR UTILITY COMMUNICATIONS FEED. STUB OUT ABOVE ACCESSIBLE CEILING IN IT/DATA #X21. REFER TO SITE/CIVIL UTILITY PLAN, DRAWING C07.0 FOR CONTINUATION. COORDINATE EXACT LOCATION WITH OTHER TRADES BEFORE ROUGH-IN. PROVIDE SEAL FOR PENETRATION THRU EXISTING WALL. REFER TO LINK SEAL DETAIL - OUTDOOR PENETRATIONS THROUGH WALL DETAIL #4 ON DRAWING E5.3.
- INTERFACE FIRE ALARM CONTROL PANEL WITH ELEVATOR CONTROLLER SO THAT ACTIVATION OF ELEVATOR LOBBY OR ELEVATOR SHAFT SMOKE DETECTORS RECALLS THE ELEVATOR TO THE FIRST FLOOR.
- ACCESS CONTROL KEYPAD. PROVIDE 1-GANG RECESSED BOX WITH (2)-1/2"C. STUBBED OUT ABOVE ACCESSIBLE CEILING FOR CONTROL WIRING AND DATA. COORDINATE EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.
- TELEPHONE TERMINAL BOARD TT8-1'. BOARD SHALL BE PLYWOOD AND 8'-0"H. X 4'-0"W X 3/4"D. REFER TO SPECIFICATION 271100 FOR DETAILED REQUIREMENTS. PAINT (2) COATS MARINE GRADE FIRE RETARDANT PAINT TO MATCH WALL FINISH. ALSO, REFER TO SHEET A2.2, KEYED NOTE 0607 FOR MORE INFORMATION.

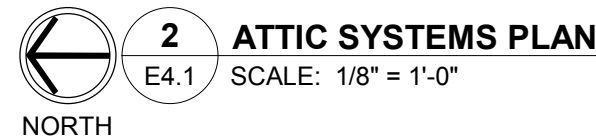
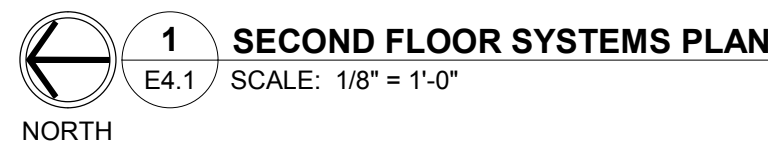


DATE	REVISION	NO.

DRAWN: ROW	CHK'D: M.L.H.
DESIGNED: ROW	
APPR'D: TKF	
DATE: DECEMBER 06, 2018	
PROJECT NUMBER	1821-7001-50

LANCASTER	FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT	LOWER LEVEL AND FIRST FLOOR SYSTEMS PLANS
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DRAWING NUMBER	E4.0	ELECTRICAL
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- A. CONTRACTOR SHALL COORDINATE ALL DEVICE HEIGHTS AND EXACT LOCATIONS WITH CASEWORK SHOP DRAWINGS AND ARCHITECTURAL ELEVATION DETAILS.
- B. REFER TO ARCHITECTURAL SHEETS FOR FIRE RATED WALLS AND CEILINGS. INSTALL FIRESTOP AT PENETRATIONS. INSTALL FIRE RATED FIBER GLASS BOXES INSTALLED IN FIRE RATED WALLS AND OFFSET BACK TO BACK BOXES.
- C. REFER TO DRAWING ES.3, DETAIL #1 FOR FIRE ALARM DEVICES MOUNTING REQUIREMENTS PER NFPA.
- D. ALL FIRE ALARM CONDUITS SHALL BE FACTORY PAINTED "RED". ALL PULL/JUNCTION BOX COVERS SHALL BE FACTORY PAINTED RED.
- E. WIRING DEVICES AND RACEWAYS ON EXISTING WALLS TO BE SURFACE MOUNTED. U.O.N. RACEWAYS AND RACEWAY ACCESSORIES SHALL BE LOW PROFILE, NON-METALLIC RACEWAY SUITABLE TO FINISHED OFFICE AREAS. (I.E. LEGRAND/WEINMOLD 400/800/2000 SERIES OR APPROVED EQUAL). INSTALL IN NEAT AND WORKMANLIKE MANNER TO MINIMIZE BENDS, ELBOWS, ETC. PAINT RACEWAYS TO MATCH WALL FINISH COLOR.
- F. REFER TO DRAWING A3.2, GENERAL NOTE E, FOR ACCESS CONTROL REQUIREMENTS.
- G. NOT ALL KEYNOTES ARE USED ON EVERY SHEET.

S2 EQUIPMENT RACK FOR DATA EQUIPMENT (SERVERS, SWITCHES, PATCH PANELS) AND UPS. ETC) FURNISHED BY OWNER.

S2 GROUND BUS BAR NO.2, MOUNT AT "7'-0" AFF. REFER TO TELE-DATA EQUIPMENT GROUND BUS DETAIL #4, DRAWING E5.3. BOND TO MAIN GROUND BUS BAR NO.1 (IN LOWER LEVEL ELECTRICAL ROOM) USE #10 AWG COPPER GREEN INSULATED CABLE.

S3 STUB 2"3/8" OUT INTO 1ST FLOOR ACCESSIBLE CEILING SPACE FOR DATAT/EL CABLES

S4 WIRELESS ACCESS POINT (WAP) LOCATED ON CEILING. WAP PROVIDED BY OWNER. INSTALLED BY CONTRACTOR. FURNISH AND INSTALL (2) CAT6 DATA CABLES WITH 10' OF SLACK FOR FINAL PLACEMENT OF DEVICE.

S5 NEW FURNITURE FEED POKE-THRU. REFER TO KEYNOTE #P1 ON SHEET #21 FOR MORE INFORMATION. FURNISH AND INSTALL FOUR (4) CAT6 CABLES TO FURNITURE. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.

S6 NEW FURNITURE FEED POKE-THRU. REFER TO KEYNOTE #P1 ON SHEET #21 FOR MORE INFORMATION. FURNISH AND INSTALL EIGHT (8) CAT6 CABLES TO FURNITURE. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.

S7 #10 AWG COPPER GREEN INSULATED GROUND CABLE. BOND TO MAIN GROUND BUS #1 (IN MECHANICAL #1502). REFER TO DETAIL #5, DRAWING E5.3.

S8 CARD ACCESS POINT. PROVIDE 1-GANG RECESSED BOX WITH (2)-1/2". STUBBED OUT ABOVE ACCESSIBLE CEILING FOR CONTROL WIRING AND DATA. COORDINATE EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.

S9 POWER OVER ETHERNET SECURITY CAMERA. CAMERA PROVIDED BY OWNER. INSTALLED BY CONTRACTOR. FURNISH AND INSTALL (1) CAT6 DATA CABLE WITH 10' OF SLACK FOR FINAL PLACEMENT OF CAMERA.

S10 NEW #8 POKE-THRU DEVICE. REFER TO KEYNOTE #P10 ON SHEET #21 FOR MORE INFORMATION. FURNISH AND INSTALL (4) CAT6 CABLE TO DEVICE. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.

S11 NEW CONCRETE FLOOR BOX. REFER TO KEYNOTE #P5 ON SHEET #21 FOR MORE INFORMATION. FURNISH AND INSTALL FOUR (4) CAT CABLES AND ASSOCIATED JACKS TO EACH BOX. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.

S12 NEW DEVICE(S) TO BE SURFACE MOUNTED ON EXISTING WALL. PROVIDE FURNITURE FEED POKE-THRU. REFER TO KEYNOTE #P1 ON SHEET #21 FOR MORE INFORMATION. FURNISH AND INSTALL FOUR (6) CAT6 CABLES TO FURNITURE. COORDINATE EXACT LOCATION BEFORE ROUGH-IN.

S14 UNIT PROVIDED WITH DUCT SMOKE DETECTOR IN RETURN DUCT. PROVIDE ADDRESSABLE CONNECTION AS NEEDED TO FACT IN LOWER LEVEL.

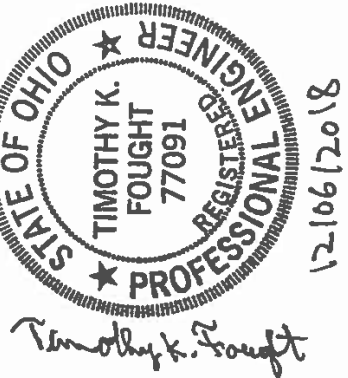
S15 PROVIDE (1) CAT6 CABLE FROM PANEL "CP-0" TO COUNTRY IT SERVER. VERIFY WITH OWNER EXACT LOCATION OF SERVER.

S16 NEW 4" CW, WITH PULLSTRUT UP TO IT/DATA #X21 FOR UTILITY COMMUNICATIONS FEED. STUB OUT ABOVE ACCESSIBLE CEILING IN IT/DATA #X21. REFER TO SITE/UTIL UTILITY PLAN, DRAWING C07.0 FOR CONTINUATION. COORDINATE EXACT LOCATION WITH OTHER TRADES BEFORE ROUGH-IN. PROVIDE SEAL FOR PENETRATION THRU EXISTING WALL. REFER TO LINK SEAL DETAIL. #4 ON DRAWING E5.3.

S17 INTERFACE FIRE ALARM CONTROL PANEL ON ELEVATOR CONTROLLER SO THAT ACTIVATION OF ELEVATOR LOBBY OR ELEVATOR SHAF T SMOKE DETECTORS RECALLS THE ELEVATOR TO THE NEXT FLOOR.

S18 ACCESS CONTROL KEYPAD. PROVIDE 1-GANG RECESSED BOX WITH (2)-1/2". STUBBED OUT ABOVE ACCESSIBLE CEILING FOR CONTROL WIRING AND DATA. COORDINATE EXACT LOCATION WITH OWNER BEFORE ROUGH-IN.

S19 TELEPHONE TRUNK ROOM TTB-1: BOARD SHALL BE PLYWOOD AND 8"0TH. X-4"0W X-3/4". REFER TO SPECIFICATION 271100 FOR DETAILED REQUIREMENTS. PAINT (2) COATS MARINE GRADE FIRE RETARDANT PAINT TO MATCH WALL FINISH. ALSO, REFER TO SHEET A2.2, KEYED NOTE 0607 FOR MORE INFORMATION.



LANCASTER	OHIO
FAIRFIELD COUNTY AUDITOR'S OFFICE REAL ESTATE DEPARTMENT	SECOND FLOOR AND ATTIC SYSTEMS PLANS

ELECTRICAL

MECHANICAL EQUIPMENT - ELECTRICAL CONNECTION SCHEDULE

Description	Electrical Data					Circuit (*) Designation	O.C.P.		Conductors	Conduit	Disconnect By	Starter By	Drawing Location	Remark / Disc or Starter Type
	Volts	Ø	KW	FLA	HP		AMPS	Pole						
FURNACE - F-1	120	1	---	11.3MCA	.75	3P-14	20	1	2#12 + #12G.	3/4"C.	M.C.	---	MECH #202, DRAWING E2.1	. ¹
FURNACE - F-2	120	1	---	11.3MCA	.75	MDP-24	20	1	2#12 + #12G.	3/4"C.	M.C.	---	BASEMENT, DRAWING E2.0	. ¹
FURNACE - F-3	120	1	---	14.4MCA	1	2P-37	20	1	2#12 + #12G.	3/4"C.	M.C.	---	ATTIC, DRAWING E2.1	. ¹
FURNACE - F-4	120	1	---	11.3MCA	.75	3P-12	20	1	2#12 + #12G.	3/4"C.	M.C.	---	MECH/ELEC #207, DRAWING E2.1	. ¹
FURNACE - F-5A	120	1	---	11.3MCA	.75	2P-41	20	1	2#12 + #12G.	3/4"C.	M.C.	---	ATTIC, DRAWING E2.1	. ¹
FURNACE - F-5B	120	1	---	11.3MCA	.75	2P-35	20	1	2#12 + #12G.	3/4"C.	M.C.	---	ATTIC, DRAWING E2.1	. ¹
FURNACE - F-6	120	1	---	11.3MCA	.75	2P-39	20	1	2#12 + #12G.	3/4"C.	M.C.	---	ATTIC, DRAWING E2.1	. ¹
CONDENSING UNIT - ACCU-1	208	1	---	24MCA	---	MDP(7,9)	40	2	2#8 + #10G.	3/4"C.	M.C.	---	EXTERIOR, DRAWING E2.0	. ¹
CONDENSING UNIT - ACCU-2	208	1	---	24MCA	---	MDP(11,13)	40	2	2#8 + #10G.	3/4"C.	M.C.	---	EXTERIOR, DRAWING E2.0	. ¹
CONDENSING UNIT - ACCU-3	208	1	---	24MCA	---	MDP(15,17)	40	2	2#8 + #10G.	3/4"C.	M.C.	---	EXTERIOR, DRAWING E2.0	. ¹
CONDENSING UNIT - ACCU-4	208	1	---	22MCA	---	MDP(8,10)	35	2	2#8 + #10G.	3/4"C.	M.C.	---	EXTERIOR, DRAWING E2.0	. ¹
CONDENSING UNIT - ACCU-5A	208	1	---	22MCA	---	MDP(12,14)	35	2	2#8 + #10G.	3/4"C.	M.C.	---	EXTERIOR, DRAWING E2.0	. ¹
CONDENSING UNIT - ACCU-5B	208	1	---	22MCA	---	MDP(16,18)	35	2	2#8 + #10G.	3/4"C.	M.C.	---	EXTERIOR, DRAWING E2.0	. ¹
CONDENSING UNIT - ACCU-6	208	1	---	22MCA	---	MDP(19,21)	35	2	2#8 + #10G.	3/4"C.	M.C.	---	EXTERIOR, DRAWING E2.0	. ¹
CONDENSING UNIT - ACCU-7	208	1	---	13MCA	---	MDP(23,25)	15	2	2#8 + #10G.	3/4"C.	M.C.	---	EXTERIOR, DRAWING E2.0	. ¹
DUCTLESS SPLIT - DSS-1	208	1	---	.33	---	2P(10,12)	20	1	2#12 + #12G.	3/4"C.	M.C.	---	IT/DATA #X21, DRAWING E2.1	. ¹
EXHAUST FAN - EF-1	120	1	.028	---	---	1P-11	20	1	2#12 + #12G.	3/4"C.	M.C.	M.C.	WOMEN #107, DRAWING E2.0	. ¹ . ³
EXHAUST FAN - EF-2	120	1	.028	---	---	1P-11	20	1	2#12 + #12G.	3/4"C.	M.C.	M.C.	MEN #108, DRAWING E2.0	. ¹ . ³
EXHAUST FAN - EF-3	120	1	.028	---	---	3P-9	20	1	2#12 + #12G.	3/4"C.	M.C.	M.C.	WOMEN #205, DRAWING E2.1	. ¹ . ³
EXHAUST FAN - EF-4	120	1	.028	---	---	3P-9	20	1	2#12 + #12G.	3/4"C.	M.C.	M.C.	MEN #206, DRAWING E2.1	. ¹ . ³
EXHAUST FAN - EF-5	120	1	.028	---	---	1P-11	20	1	2#12 + #12G.	3/4"C.	M.C.	M.C.	JAN #105, DRAWING E2.0	. ¹ . ³
ELEC. UNIT HEATER - EUH-1	208	1	5	---	---	MDP(27,29)	40	2	2#8 + #10G.	3/4"C.	MFGR	---	BASEMENT, DRAWING E2.0	
ELEC. BASEBOARD HEATER - EBH-1	208	1	1.5	---	---	. ⁶	20	2	2#12 + #12G.	3/4"C.	MFGR	---	VESTIBULE #101, DRAWING E2.0	
ELEC. WALL HEATER - EWH-1	120	1	1.5	---	---	. ⁴	20	1	2#12 + #12G.	3/4"C.	MFGR	---	. ⁵	
PUMP - CP-1	120	1	---	---	1/6	MDP-22	20	1	2#12 + #12G.	3/4"C.	E.C.	E.C.	BASEMENT, DRAWING E2.0	. ²
RECIRC PUMP - RP-1	120	1	---	---	1/12	3P-15	20	1	2#12 + #12G.	3/4"C.	E.C.	E.C.	MECH #202, DRAWING E2.1	. ²
SUMP PUMP - SP-1	120	1	---	---	4/10	MDP-20	20	1	2#12 + #12G.	3/4"C.	E.C.	E.C.	BASEMENT, DRAWING E2.0	. ⁷
TANKLESS GAS WATER HEATER - WH-1	120	1	---	9	---	3P-13	20	1	2#12 + #12G.	3/4"C.	E.C.	---	MECH #202, DRAWING E2.1	. ²

E.C. - CONTRACTOR SHALL FURNISH AND INSTALL, SIZE AS SHOWN. SEE REMARKS FOR SIZE
M.C. - STARTER/DISCONNECT TO BE PROVIDED BY EQUIPMENT SUPPLIER, REFER TO MECHANICAL/PLUMBING SCHEDULES
MFR - INDICATES DISCONNECT INTEGRAL TO UNIT BY MANUFACTURER

(^{*1})- UNIT PROVIDED WITH STARTER/DISCONNECT.
STARTER/DISCONNECT TO BE MOUNTED/WIRED BY CONTRACTOR.

(*)² - FURNISH AND INSTALL 125VAC, 20A, 1-POLE MANUAL MOTOR STARTER WITH TOGGLE DISCONNECT IN NEMA 1 ENCLOSURE. FURNISH WITH RED (RUN) PILOT LIGHT.

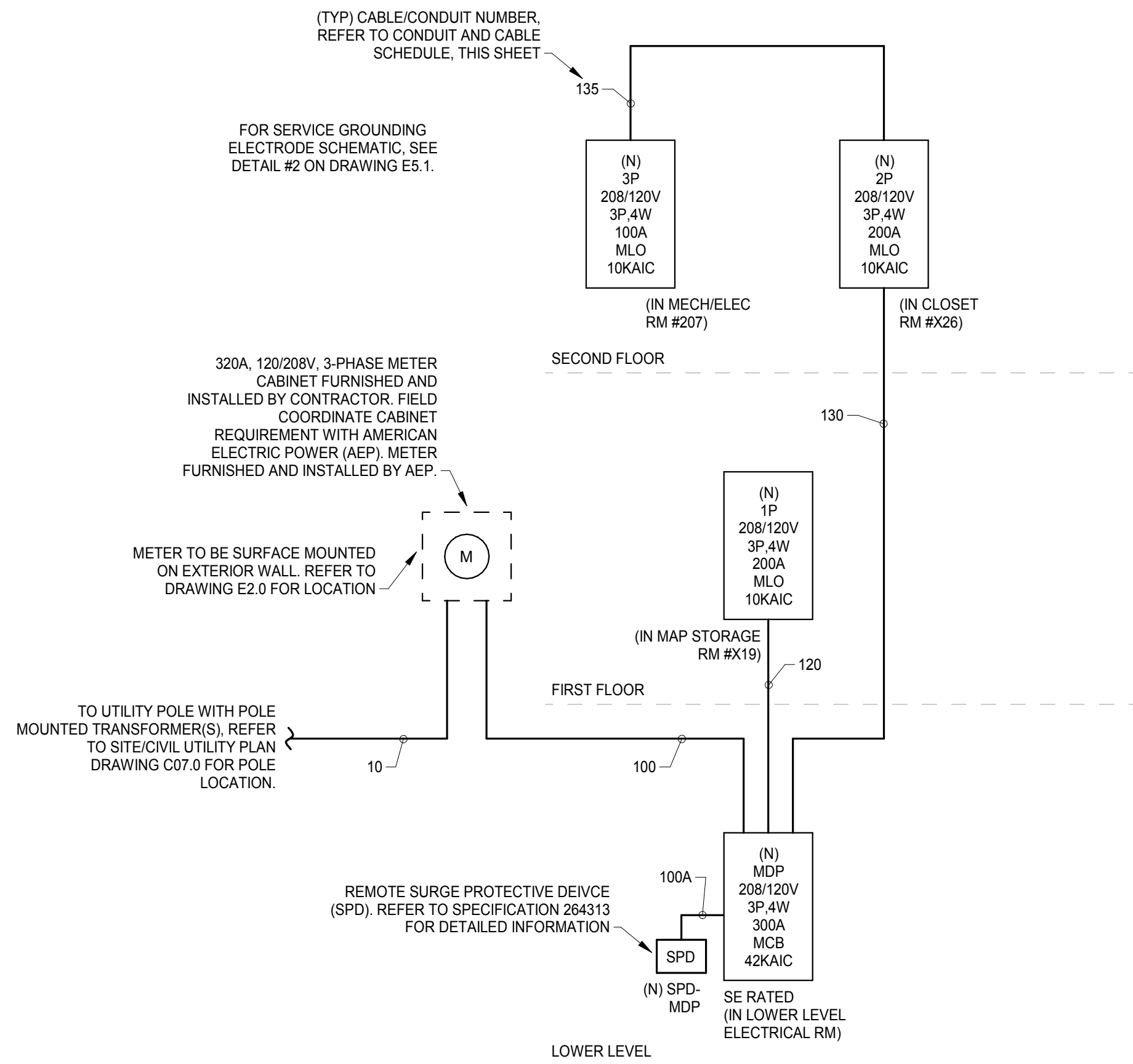
(*)3- FAN TO BE CONNECTED TO SAME CIRCUIT AS ROOM SERVED LIGHTING AND BE CONTROLLED ON/OFF VIA OCCUPANCY SENSOR IN ROOM.

(⁴) - THERE ARE (4) TOTAL HEATERS, EACH CONNECTED TO AN INDIVIDUAL CIRCUIT. TWO ARE CONNECTED TO PANEL '1P' AND TWO ARE CONNECTED TO PANEL '3P'

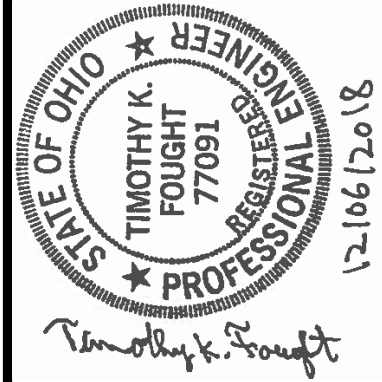
(*)⁵ - WALL HEATERS ARE LOCATED IN THE FOLLOWING ROOMS:
WOMEN'S RR #107, MEN'S RR #108 - SHEET E2.0
WOMEN'S RR #205, MEN'S RR #206 - SHEET E2.1

(*6) - THERE ARE (2) TOTAL HEATERS, EACH CONNECTED TO AN INDIVIDUAL CIRCUIT ON PANEL '1P', CIRCUITS (21,23) AND (25,27).

(7) - UNIT IS CORD AND PLUG, REFER TO PLAN FOR LOCATION.



1 ONE-LINE DIAGRAM
E5.0 SCALE: N.T.S.

[illegible]

DRAWN: RDW	CHK'D: MLH
DESIGNED: RDW	
APPRV'D: TKF	
DATE: DECEMBER 06, 2018	
PROJECT NUMBER	1821-7001-50

LANCASTER
FAIRFIELD COUNTY AUDITOR'S OFFICE
REAL ESTATE DEPARTMENT

REAL ESTATE DEPARTMENT
 ELECTRICAL ONE-LINE DIAGRAM AND SCHEDULES

0.5E

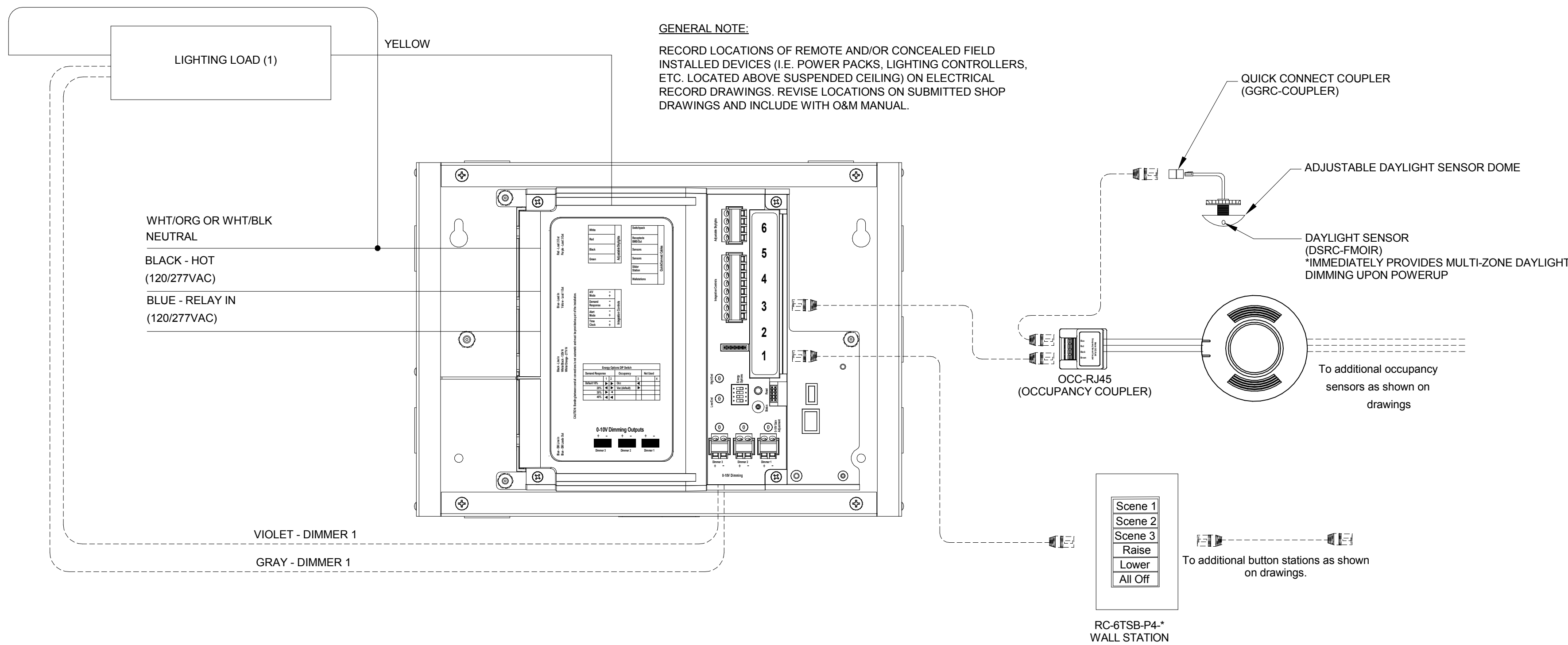
ELECTRICAL

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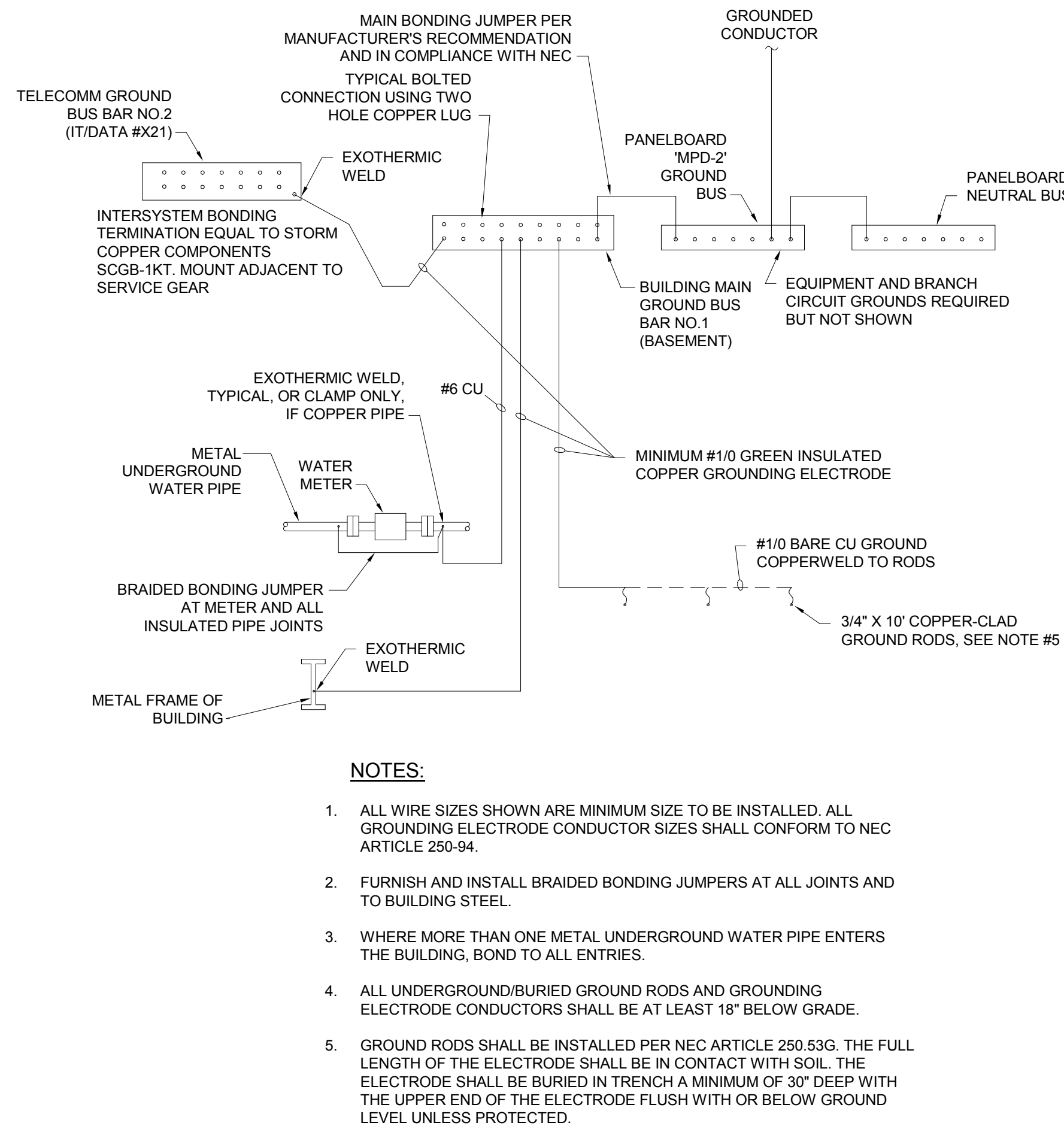
Lighting Fixture Schedule										
TYPE	LAMP	WATTAGE	VOLTAGE	DESCRIPTION	BASIS OF DESIGN	EQUAL MANUFACTURER	EQUAL MANUFACTURER	COMMENTS		
A1	LED	26 W	120V	2X4 LED GRID LAY-IN VOLUMETRIC STYLE TROFFER, 3000 LUMENS, 3500K COLOR, 1 DRIVER, UNIVERSAL VOLTAGE WITH ACRYLIC LINEAR PRISMATIC DIFFUSER WITH DIFFUSER TRIM RINGS.	LITHONIA 2VTL-30L-ADPT-MVOLT-EZ1-L835	EATON METALUX AS APPROVED EQUAL	HUBBELL COLUMBIA AS APPROVED EQUAL	LAY IN		
A2	LED	33 W	120V	2X4 LED GRID LAY-IN VOLUMETRIC STYLE TROFFER, 4000 LUMENS, 3500K COLOR, 1 DRIVER, UNIVERSAL VOLTAGE WITH ACRYLIC LINEAR PRISMATIC DIFFUSER WITH DIFFUSER TRIM RINGS.	LITHONIA 2VTL-40L-ADPT-MVOLT-EZ1-L835	EATON METALUX AS APPROVED EQUAL	HUBBELL COLUMBIA AS APPROVED EQUAL	LAY IN		
A3	LED	39 W	120V	2X4 LED GRID LAY-IN VOLUMETRIC STYLE TROFFER, 4800 LUMENS, 3500K COLOR, 1 DRIVER, UNIVERSAL VOLTAGE WITH ACRYLIC LINEAR PRISMATIC DIFFUSER WITH DIFFUSER TRIM RINGS.	LITHONIA 2VTL-48L-ADPT-MVOLT-EZ1-L835	EATON METALUX AS APPROVED EQUAL	HUBBELL COLUMBIA AS APPROVED EQUAL	LAY IN		
B1	LED	23 W	120V	2' X 4', LAY-IN GRID TROFFER WITH 0.125" #12 PATTERN ACRYLIC LENS, 3000 LUMENS, 3500K COLOR, COLD ROLLED STEEL HOUSING, FRAME AND HOUSING WITH WHITE POWDER COAT FINISH. PAINTED AFTER FABRICATION..	EATON METALUX 24GR-LD5-30-A125-UNV-L835-CD1-PAF	LITHONIA LIGHTING AS APPROVED EQUAL	HUBBELL COLUMBIA AS APPROVED EQUAL			
B1E	LED	23 W	120V	2' X 4', LAY-IN GRID TROFFER WITH 0.125" #12 PATTERN ACRYLIC LENS, 3000 LUMENS, 3500K COLOR, COLD ROLLED STEEL HOUSING, FRAME AND HOUSING WITH WHITE POWDER COAT FINISH. PAINTED AFTER FABRICATION WITH 14-WATT EMERGENCY BATTERY PACK.	EATON METALUX 24GR-LD5-30-A125-UNV-EL14W-L835-CD1-PAF	LITHONIA LIGHTING AS APPROVED EQUAL	HUBBELL COLUMBIA AS APPROVED EQUAL			
B1F	LED	23 W	120V	2' X 4', FLANGED TROFFER WITH 0.125" #12 PATTERN ACRYLIC LENS, 3000 LUMENS, 3500K COLOR, COLD ROLLED STEEL HOUSING, FRAME AND HOUSING WITH WHITE POWDER COAT FINISH. PAINTED AFTER FABRICATION WITH DRYWALL FRAME KIT.	EATON METALUX 24GR-LD5-30-A125-UNV-L835-CD1-PAF-DF-24-W	LITHONIA LIGHTING AS APPROVED EQUAL	HUBBELL COLUMBIA AS APPROVED EQUAL			
C1	LED	16 W	120V	2' X 2', LAY-IN GRID TROFFER WITH 0.125" #12 PATTERN ACRYLIC LENS, 2000 LUMENS, 3500K COLOR, COLD ROLLED STEEL HOUSING, FRAME AND HOUSING WITH WHITE POWDER COAT FINISH. PAINTED AFTER FABRICATION.	EATON METALUX 22GR-LD5-20-A125-UNV-L835-CD1-PAF	LITHONIA LIGHTING AS APPROVED EQUAL	HUBBELL COLUMBIA AS APPROVED EQUAL	FIXTURES TO BE SURFACE MOUNTED ON BOTTOM OF JOIST		
D1	LED	25 W	120V	4' LED SURFACE STRIPLIGHT WITH DIFFUSE LENS, 3000 LUMENS, 80CRI, 3500K COLOR, WHITE FINISH	LITHONIA ZL1N-L48-3000LM-FST-MVOLT-35K-80CRI-WH	EATON METALUX AS APPROVED EQUAL	HUBBELL COLUMBIA AS APPROVED EQUAL			
D1E	LED	25 W	120V	4' LED SURFACE STRIPLIGHT WITH DIFFUSE LENS, 3000 LUMENS, 80CRI, 3500K COLOR, WHITE FINISH WITH 10-WATT EMERGENCY BATTERY PACK.	LITHONIA ZL1N-L48-3000LM-FST-MVOLT-35K-80CRI-WH-E10WLCP	EATON METALUX AS APPROVED EQUAL	HUBBELL COLUMBIA AS APPROVED EQUAL			
EM	LED	3 W	120V	THERMOPLASTIC EMERGENCY LIGHT WITH (2) LED LAMPS, Ni-CAD BATTERY AND SELF-DIAGNOSTICS. FINISH TO BE SELECTED BY ARCHITECT.	LITHONIA ELM2-LED-X-SD	EATON SURE-LITES AS APPROVED EQUAL	DUAL-LITE AS APPROVED EQUAL	MOUNT WITH BOTTOM AT +8'-0" AFF U.O.N.		
F1	LED	44 W	120V	8" X 54", ROUGH SERVICE FIXTURE, SURFACE MOUNT, 4000 LUMENS, 4000K, CLEAR POLYCARBONATE LENS, MEDIUM DISTRIBUTION, UL LISTED FOR WET LOCATION, STAINLESS STEEL TAMPER RESISTANT LATCHES.	LITHONIA VAP-4000LM-PCL-MVOLT-GZ10-35K-80CRI	EATON METALUX AS APPROVED EQUAL	HUBBELL COLUMBIA AS APPROVED EQUAL			
SA	LED	0 W	120V	DECORATIVE PENDANT (CHAIN) MOUNTED LANTERN, BLACKENED COPPER FINISH, 120V. FURNISH WITH (3) 4.5W, 300 LUMEN LED NON-DIMMABLE CADLEABRA E12 BASE LAMPS.	SHADES OF LIGHT - FEDERAL OUTDOOR HANGING LANTERN - 3 LIGHT SKU OL9905H			PROVIDE AN ALLOWANCE OF \$500 PER FIXTURE. CHAIN MOUNT WITH BOTTOM AT +8'-0" AFF.		
SB	LED	9 W	120V	DECORATIVE WALL MOUNTED LANTERN, BLACKENED COPPER FINISH, 120V. FURNISH WITH (2) 4.5W, 300 LUMEN LED NON-DIMMABLE CADLEABRA E12 BASE LAMPS.	SHADES OF LIGHT - FEDERAL OUTDOOR LIGHT - MEDIUM SKU OL9905			PROVIDE AN ALLOWANCE OF \$500 PER FIXTURE. MOUNT AT HEIGHT AS INDICATED ON EXTERIOR ARCHITECTURAL ELEVATIONS ON SHEETS A5.1 AND A5.2.		
SC	LED	6 W	120V	LED RECESSED WALL STEP LIGHT, 120V, 5.9W, 62 LUMENS, WET LOCATION LISTED, 3000K COLOR, IP65 RATED, BRONZE FINISH WITH DIE-CAST ALUMINUM HOUSING/FACEPLATE WITH LOUVERS	BEGA-US 33-050-K3	WE-EF AS APPROVED EQUAL	INTRIGUE LIGHTING AS APPROVED EQUAL	MOUNT RECESSED IN WALL WITH BOTTOM AT +12" ABOVE RAMP/WALK.		
SD	LED	46 W	120V	ARCHITECTURAL FLOOD LIGHT, DIE-CAST ALUMINUM HOUSING, 3000K COLOR, 80CRI, 3877 LUMENS, 46 WATTS, ELECTRONIC BALLAST, TIGHT SPOT DISTRIBUTION, VANDAL RESISTANT VISOR, 18" STANCHION MOUNT, 5-YEAR WARRANTY WITH FINISH AS SELECTED BY ARCHITECT.	EATON INVUE VFS-K-B40-7-LED-E1-TS-XX-SM-18-VFS-4S-8030	LITHONIA LIGHTING AS APPROVED EQUAL	HUBBELL OUTDOOR LIGHTING AS APPROVED EQUAL	FIXTURE TO BE MOUNTED ON CONCRETE BASE, REFER TO DETAIL #3 ON SHEET E5.3.		
SE	LED	46 W	120V	ARCHITECTURAL FLOOD LIGHT, DIE-CAST ALUMINUM HOUSING, 3000K COLOR, 80CRI, 3877 LUMENS, 46 WATTS, ELECTRONIC BALLAST, MEDIUM SYMMETRICAL RECTANGULAR DISTRIBUTION, VANDAL RESISTANT VISOR, 18" STANCHION MOUNT, 5-YEAR WARRANTY WITH FINISH BY ARCHITECT.	EATON INVUE VFS-K-B40-7-LED-E1-MST-XX-SM-18-VFS-4S-8030	LITHONIA LIGHTING AS APPROVED EQUAL	HUBBELL OUTDOOR LIGHTING AS APPROVED EQUAL	FIXTURE TO BE MOUNTED ON CONCRETE BASE, REFER TO DETAIL #3 ON SHEET E5.3.		
SF	LED	15 W	120V	26"L X 4.3"W X 2.7"D VANDAL RESISTANT WALL MOUNTED FIXTURE. MARINE GRADE DIE-CAST ALUMINUM HOUSING, PRISMATIC POLYCARBONATE LENS, CONSTANT CURRENT DRIVER, 4000K COLOR, 120V, 82 CRI WITH FINISH AS SELECTED BY ARCHITECT AND UL WET LOCATION LABEL. FIXTURE TO HAVE LIFETIME WARRANTY AGAINST VANDALISM. PROVIDE WITH FUSE AND FUSE HOLDER AND TORX HEAD SCREWS.	LUMINAIRE LED SPC4-22-NB-14WHP-4000K-120-CP-XX-WET-GLR-TXSD			SURFACE MOUNT ON WALL WITH BOTTOM AT +7'-6" AFF.		
SG	LED	30 W	120V	ARCHITECTURAL FLOOD LIGHT WITH COLOR CHANGING LIGHT ENGINE, 1846 LUMEN OUTPUT, 3000K COLOR, 60 DEGREE FLOOD, 120-277V, POWERSYNC CONTROLLER WITH DATA INJECTOR AND SURFACE MOUNTED KIT. ALL WITH FINISH TO BE SELECTED BY ARCHITECT.	LUMASCAPE LS9120-30-D-4CW-84-WF-09-PS-XX-006 / LS6301-XX / LS6540	LUMENPULSE AS APPROVED EQUAL	AS APPROVED EQUAL	FIXTURE TO BE MOUNTED ON CONCRETE BASE, REFER TO DETAIL #3 ON SHEET E5.3. PROVIDE ALL TERMINATIONS AND CABLING NEEDED FOR A COMPLETE AND OPERABLE SYSTEM. REFER TO LIGHT FIXTURE SCHEDULE NOTE C BELOW.		
X1	LED	4 W	120V	THERMOPLASTIC COMBO EXIT SIGN WITH SINGLE BATTERY, 120V, 4.3W, SEALED Ni-CAD BATTERY, DOUBLE LED HEADS AND SELF DIAGNOSTICS AND RED LETTERS.	LITHONIA LHQM-LED-R-SD	EATON SURE-LITES AS APPROVED EQUAL	DUAL-LITE AS APPROVED EQUAL			
X2	LED	3 W	120V	THERMOPLASTIC EXIT SIGN WITH SEALED LEAD-ACID BATTERY, 120V, 3.3W, WHITE HOUSING AND RED LETTERS.	LITHONIA LHQM-S-W-3-R	EATON SURE-LITES AS APPROVED EQUAL	DUAL-LITE AS APPROVED EQUAL			

LIGHT FIXTURE SCHEDULE NOTES

- A. ALL LAY-IN FIXTURES TO HAVE EARTHQUAKE CLIPS AND BE SUPPORTED WITH SAFETY CHAIN, SEE SPECIFICATIONS.
- B. ALL FIXTURES SHALL BE U.L. LISTED.
- C. FURNISH AND INSTALL TWO (2) TOUCH-BASED WALL MOUNTED DMX CONTROLLERS FOR CONTROL OF EXTERIOR RGBW LIGHTS. CONTROLLER TO BE LIKE ACCLAIM LIGHTING BART-4 PRO OR APPROVED EQUAL. CONTROLLER WILL DRIVE 12-24VDC FIXTURES WITH FOUR USER PROGRAMMABLE STATIC COLOR PRESETS WITH A MANUAL SPEED AND DIMMER FUNCTION. PROVIDE ONE CONTROLLER FOR EACH PAIR OF FLOOD LIGHTS, COORDINATE EXACT MOUNTING LOCATION WITH OWNER BEFORE ROUGH-IN. ENGAGE A FACTORY-AUTHORIZED SERVICE REPRESENTATIVE TO TRAIN THE OWNER / OWNER'S PERSONNEL TO ADJUST, OPERATE AND MAINTAIN THE CONTROLLER. INCLUDE ALL WIRING AS NEEDED BETWEEN CONTROLLER AND LIGHTS AND/OR DATA INJECTOR.



1
E5.1
TYPICAL DAYLIGHTING-OCCUPANY SENSOR WITH MANUAL CONTROL WIRING DIAGRAM
SCALE: N.T.S.

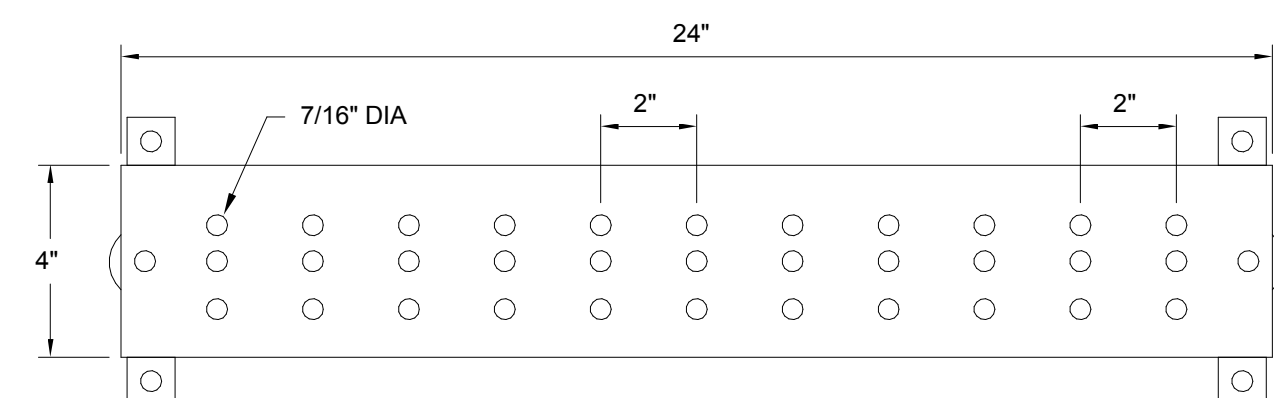
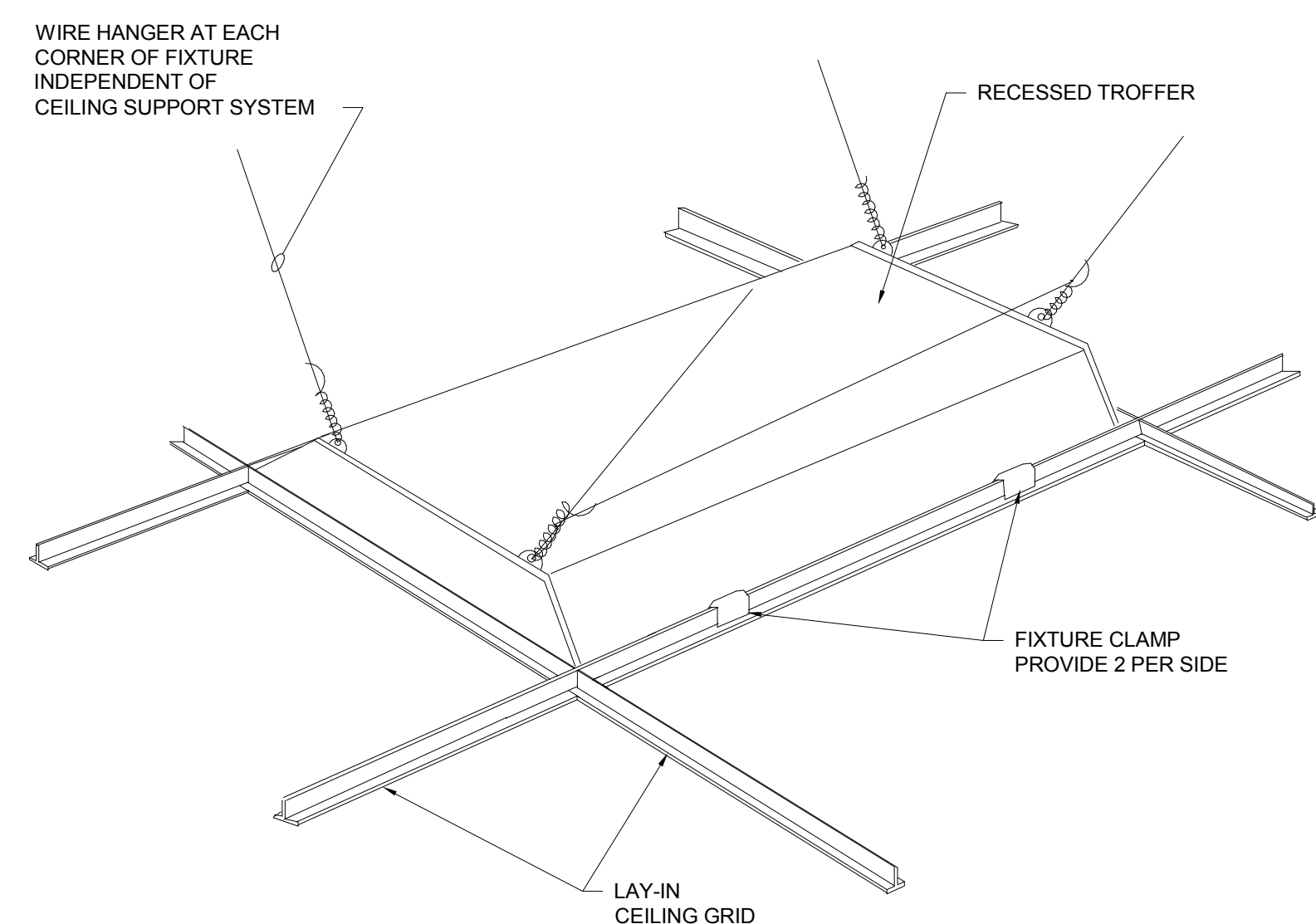
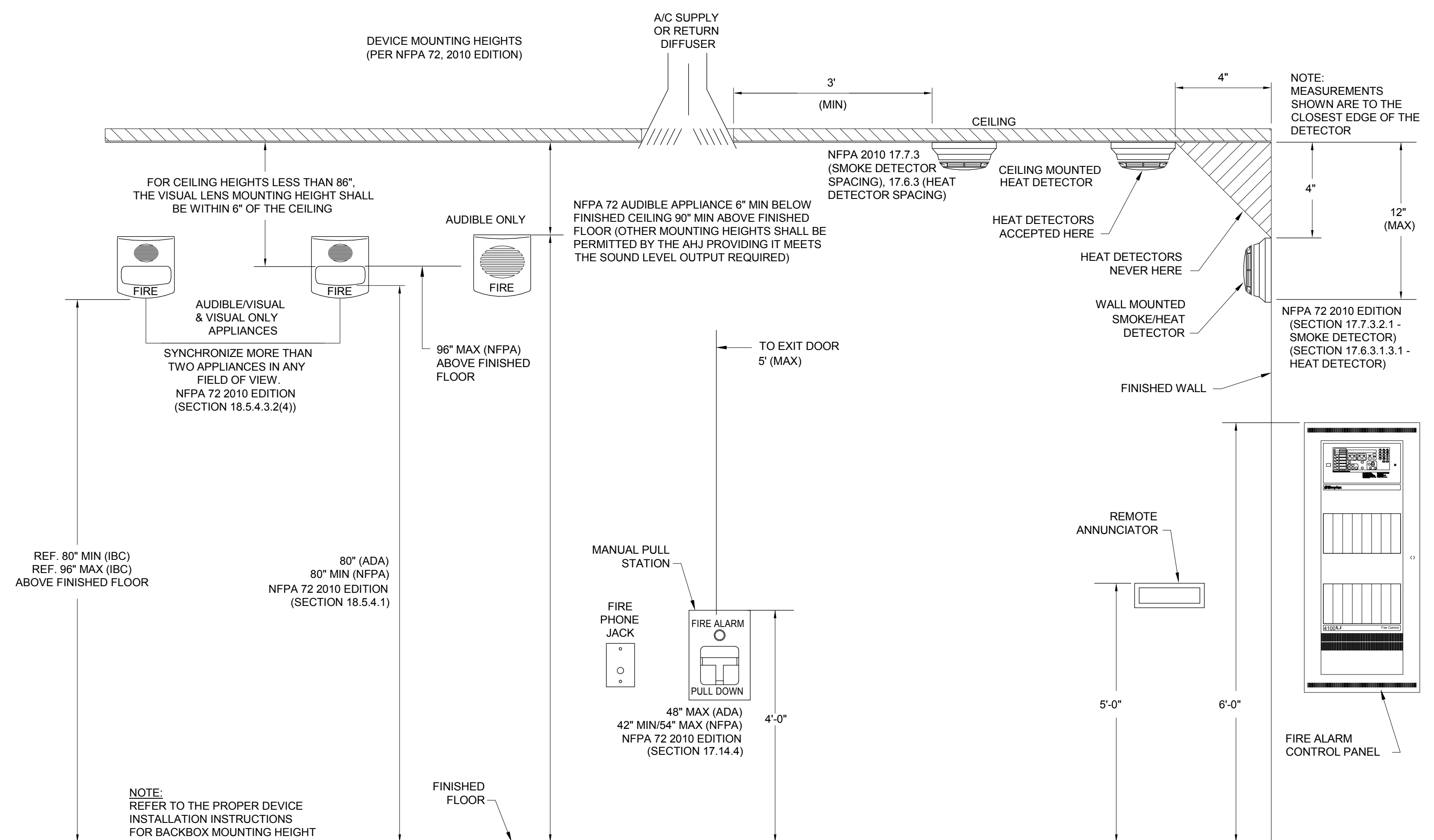


2
E5.1
SERVICE ENTRANCE GROUNDING ELECTRODE SYSTEM SCHEMATIC
SCALE: N.T.S.

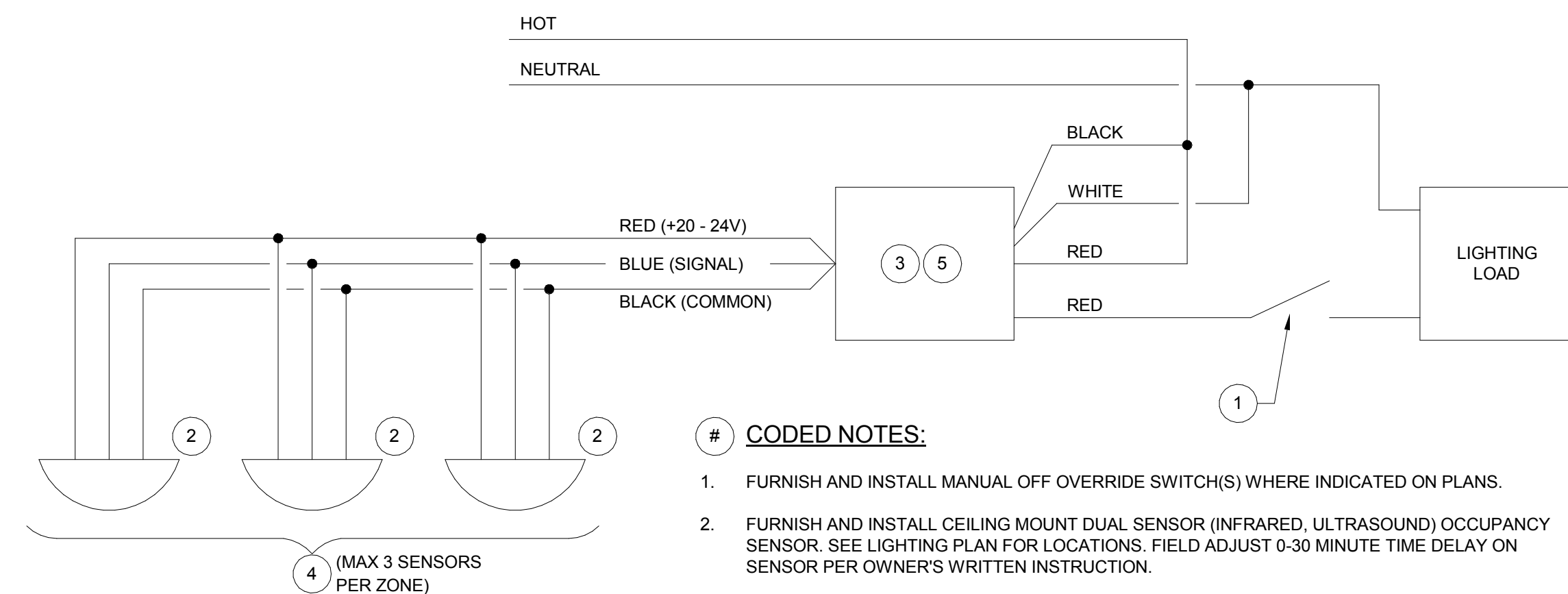
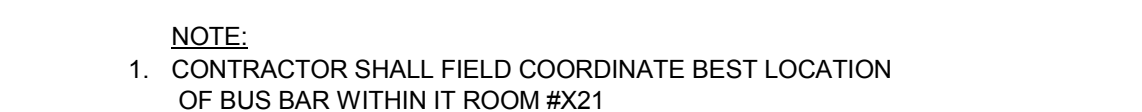
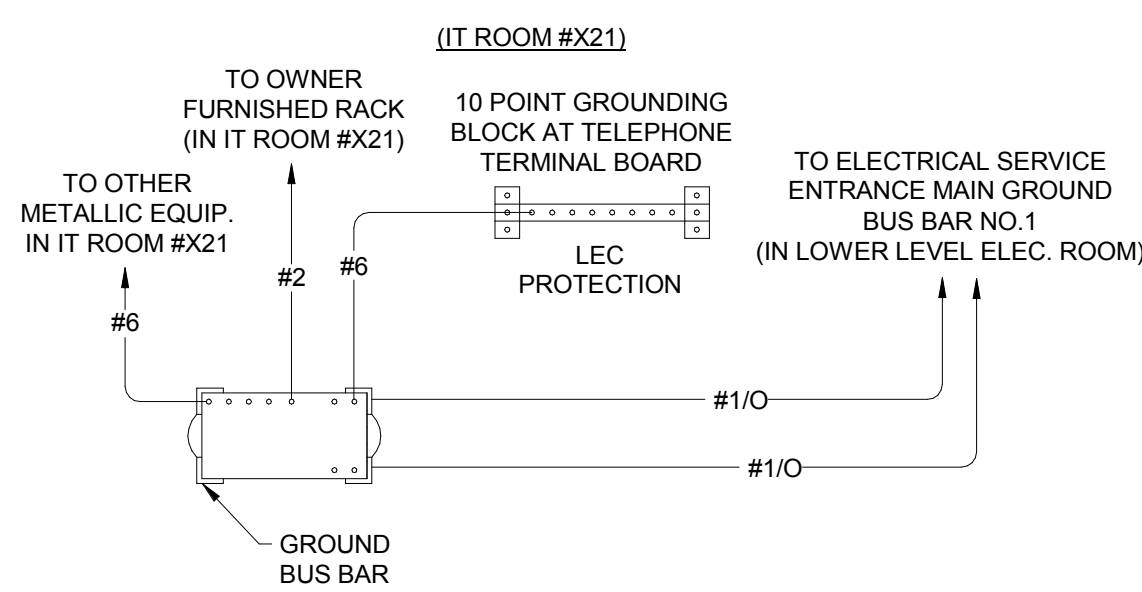
Branch Panel: 1P													
Location:				Volts: 120/208 Wye				A.I.C. Rating: 10kA					
Supply From: MDP				Phases: 3				Mains Type: MLO					
Mounting: Flush				Wires: 4				Mains Rating: 200 A					
Enclosure: 1													
Notes:													
NEW FLUSH MOUNTED PANEL													
PROVIDE WITH THREE (3) EMPTY 1" C. STUBBED OUT ABOVE CEILING FOR FUTURE USE.													
CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Lighting - Rooms #X11 to #X15	20 A	1	549	720					1	20 A	Recepts - Rm #X18	8
9	Lighting - Rooms #X16 to #X19	20 A	1			577	720			1	20 A	Recepts - Rm #X18	10
11	Lighting - Rooms #101 to #110 & EF-1,2,5	20 A	1					579	720	1	20 A	Recepts - Rms #X11, X14 & X15	12
13	Recepts - Rms #X19, X20 & 103	20 A	1	720	720					1	20 A	Recepts - Rm #X12	14
15	Wall Heater - EWH-1 - Rm #108	20 A	1			1500	720			1	20 A	Recepts - Rm #X12	16
17	Wall Heater - EWH-1 - Rm #107	20 A	1					1500	1080	1	20 A	Recepts - Rm #X13	18
19	Recepts - Rms #103, 107 & 108 and Elec Valves	20 A	1	1120	1260					1	20 A	Recepts - Rms #X13 & X15	20
21	Baseboard Heater - EBH-1 - Rm #101	20 A	2			750	1080			1	20 A	Recepts - Rms #X17	22
23	--	--	--					750	360	1	20 A	Quad Recept - Rm #X13 (Coffee)	24
25	Baseboard Heater - EBH-1 - Rm #101	20 A	2	750	1000					1	20 A	Printer - Rm #X17	26
27	--	--	--			750	720			1	20 A	Recepts - Rm #X17	28
29	Recepts - Rms #101 & 105	20 A	1					720	1000	1	20 A	Copier - Rm #X17	30
31	Recepts - Rm #104	20 A	1	900	1000					1	20 A	Auto Doors - Doors #101A & 101B - Rm #101	32
33	Recepts - Rm #104	20 A	1			900	540			1	20 A	Recepts - Rm #X17	34
35	Copier - Rm #104	20 A	1					1000	540	1	20 A	Recepts - Exterior	36
37	Recepts - Rm #104	20 A	1	720	0					--	--	SPACE	38
39	Recepts - Rm #104	20 A	1			720	0			--	--	SPACE	40
41	--	--	--						0	--	--	SPACE	42
Total Load:				9435 VA		8950 VA		8230 VA					
Total Amps:				80 A		76 A		69 A					
Legend:													
Load Classification				Connected Load		Demand Factor		Estimated Demand		Panel Totals			
HVAC				84 VA		100.00%		84 VA					
Lighting				1624 VA		125.00%		2030 VA		Total Conn. Load: 26616 VA			
Motor				1000 VA		112.50%		1125 VA		Total Est. Demand: 24131 VA			
Other				0 VA		0.00%		0 VA		Total Conn. Current: 74 A			
Receptacle				14580 VA		100.00%		14580 VA		Total Est. Demand Current: 67 A			
Heating				6000 VA		100.00%		6000 VA					
Misc.				400 VA		100.00%		400 VA					
Misc. Non-Continuous				3000 VA		0.01%		0 VA					
Notes:													

Branch Panel: MDP													
Location: Basement Electrical Room						Volts: 120/208 Wye				A.I.C. Rating: 22kA			
Supply From: See One-Line						Phases: 3				Mains Type: MCB			
Mounting: Surface						Wires: 4				Mains Rating: 300 A			
Enclosure: 1										MCB Rating: 300 A			
Notes:													
NEW SURFACE MOUNTED PANEL. PANEL TO SERVICE ENTRANCE (SE) RATED.													
CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Condensing Unit - ACCU-1 - Exterior	40 A	2	1997	1831					2	35 A	Condensing Unit - ACCU-4 - Exterior	8
9	--	--	--			1997	1831			--	--	--	10
11	Condensing Unit - ACCU-2 - Exterior	40 A	2					1997	1831	2	35 A	Condensing Unit - ACCU-5A - Exterior	12
13	--	--	--	1997	1831					--	--	--	14
15	Condensing Unit - ACCU-3 - Exterior	40 A	2			1997	1831			2	35 A	Condensing Unit - ACCU-5B - Exterior	16
17	--	--	--					1997	1831	--	--	--	18
19	Condensing Unit - ACCU-6 - Exterior	35 A	2	1831	1200					1	20 A	Sump Pump - 'SP-1' - Basement	20
21	--	--	--			1831	528			1	20 A	Circ Pump - 'CP-1' - Basement	22
23	Condensing Unit - ACCU-7 - Exterior	15 A	2					1082	1085	1	20 A	Furnace 'F-2' - Basement	24
25	--	--	--	1082	125					1	20 A	Lighting - Basement	26
27	Elec. Unit Heater - 'EUH-1' - Basement	40 A	2			2500	0			1	20 A	Lighting Contactors #LC1 & LC2 coils	28
29	--	--	--					2500	100	1	20 A	Time Clock - Basement	30
31	*Fire Alarm Control Panel - FACP - Basement	20 A	1	250	86					1	20 A	Lighting - Exterior Egress (via central inverter unit)	32
33	--	--	--					166		1	20 A	Lighting - Exterior Sign	34
35	--	--	--						92	1	20 A	Lighting - Exterior Flag Pole	36
37	*Elevator - Basement	150 A	3	7812	125					1	20 A	Central Inverter Unit - Basement	38
39	--	--	--			7812	180			1	20 A	Elevator Pit Recept. - Basement	40
41	--	--	--					7812	1000	1	20 A	Elev Cab Lights - Basement	42
43	Panelboard '1P' - First Floor Rm #X19	200 A	3	9435	0					--	--	SPACE	44
45	--	--	--			8950	0			--	--	SPACE	46
47	--	--	--					8230	0	--	--	SPACE	48
49	Panelboards '2P' & '3P' - Second Floor	200 A	3	12148	0					3	60 A	Surge Protective Device 'SPD-MDP'	50
51	--	--	--			12056	0			--	--	--	52
53	--	--	--					12736	0	--	--	--	54
Total Load:				41747 VA		41675 VA		42291 VA					
Total Amps:				348 A		347 A		353 A					
Legend:													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
HVAC		1749 VA		100.00%		1749 VA							
Lighting		3991 VA		125.00%		4989 VA		Total Conn. Load: 101777 VA					
Motor		1960 VA		108.88%		2134 VA		Total Est. Demand: 97723 VA					
Other		1000 VA		100.00%		1000 VA		Total Conn. Current: 283 A					
Receptacle		31240 VA		100.00%		31240 VA		Total Est. Demand Current: 271 A					
Cooling		28857 VA		100.00%		28857 VA							
Heating		21891 VA		100.00%		21891 VA							
Misc.		6000 VA		100.00%		6000 VA							
Misc. Non-Continuous		5200 VA		0.01%		1 VA							
Notes:													
* = PROVIDE WITH RED BREAKER LOCK KIT TO HOLD THE BRANCH BREAKER HANDLE IN THE OPEN OR CLOSED POSITION.													

Branch Panel: 2P													
Location:				Volts: 120/208 Wye				A.I.C. Rating: 10kA					
Supply From: MDP				Phases: 3				Mains Type: MLO					
Mounting: Surface				Wires: 4				Mains Rating: 200 A					
Enclosure: 1										MCB Rating: 200 A			
Notes:													
NEW SURFACE MOUNTED PANEL													
CKT	Circuit Description	Trip	Poles	A (VA)		B (VA)		C (VA)		Poles	Trip	Circuit Description	CKT
1	SPARE	20 A	1	0	0					1	20 A	SPARE	2
3	SPARE	20 A	1			0	0			1	20 A	SPARE	4
5	SPARE	20 A	1					0	0	1	20 A	SPARE	6
7	Lighting - Rooms #X21 to #X25	20 A	1	446	360					1	20 A	Quad Recept - IT/Data #X21	8
9	Lighting - Rooms #X26 to #X30	20 A	1			582	34			2	20 A	Ductless Split - DSS-1' - Rm #X21	10
11	Recepts - Rms #X26 & X27	20 A	1					720	34	--	--		12
13	Quad Recepts - Rm #X27	20 A	1	720	1500					2	30 A	Spec. Recept - IT/Data #X21	14
15	Floor Box - Rm #X27	20 A	1			720	1500			--	--		16
17	Floor Box - Rm #X27	20 A	1					720	250	1	20 A	Control Panel 'CP-O' - Rm #X21	18
19	Quad Recepts - Rm #X27	20 A	1	720	360					1	20 A	Quad Recept - IT/Data #X21	20
21	Recepts - Rm #X28	20 A	1			900	1080			1	20 A	Recepts - Rms #X21, X22 & X24	22
23	*.Refrig - Rm #X28	20 A	1					1000	900	1	20 A	Recepts - Rm #X23	24
25	Disposal - Rm #X28	20 A	1	696	900					1	20 A	Recepts - Rm #X22	26
27	Coffee - Rm #X28	20 A	1			1000	900			1	20 A	Recepts - Rms #X23 & X25	28
29	Micro - Rm #X28	20 A	1					1200	720	1	20 A	Recepts- Rm #X29	30
31	Recepts - Attic	20 A	1	360	900					1	20 A	Recepts- Rm #X29 & Corridor	32
33	SPACE	--	--			0	900			1	20 A	Recepts- Rm #X29	34
35	Furnace - F-5B - Attic	20 A	1					1085	1000	1	20 A	Copier - Rm #X29	36
37	Furnace - F-3 - Attic	20 A	1	1382	0					--	--	SPACE	38
39	Furnace - F-6 - Attic	20 A	1			1085	0			--	--	SPACE	40
41	Furnace - F-5A - Attic	20 A	1					1085	0	--	--	SPACE	42
43	SPACE	--	--	0	0					--	--	SPACE	44
45	SPACE	--	--			0	0			--	--	SPACE	46
47	SPACE	--	--					0	0	--	--	SPACE	48
49	SPACE	--	--	0	3825					3	100 A	Panel '3P' - Second Floor Rm #207	50
51	SPACE	--	--			0	3380			--	--		52
53	SPACE	--	--					0	4023	--	--		54
Total Load:				12148 VA		12056 VA		12736 VA					
Total Amps:				101 A		100 A		106 A					
Legend:													
Load Classification		Connected Load		Demand Factor		Estimated Demand		Panel Totals					
HVAC		1136 VA		100.00%		1136 VA							
Lighting		1698 VA		125.00%		2123 VA							
Motor		960 VA		118.13%		1134 VA		Total Conn. Load: 36688 VA					
Other		0 VA		0.00%		0 VA		Total Est. Demand: 35073 VA					
Receptacle		16480 VA		100.00%		16480 VA		Total Conn. Current: 102 A					
Cooling		68 VA		100.00%		68 VA		Total Est. Demand Current: 97 A					
Heating		9806 VA		100.00%		9806 VA							
Misc.		4400 VA		100.00%		4400 VA							
Misc. Non-Continuous		2200 VA		0.01%		0 VA							
Notes:													
* = PROVIDE GROUND FAULT CIRCUIT INTERRUPTING (GFCI) BREAKER													

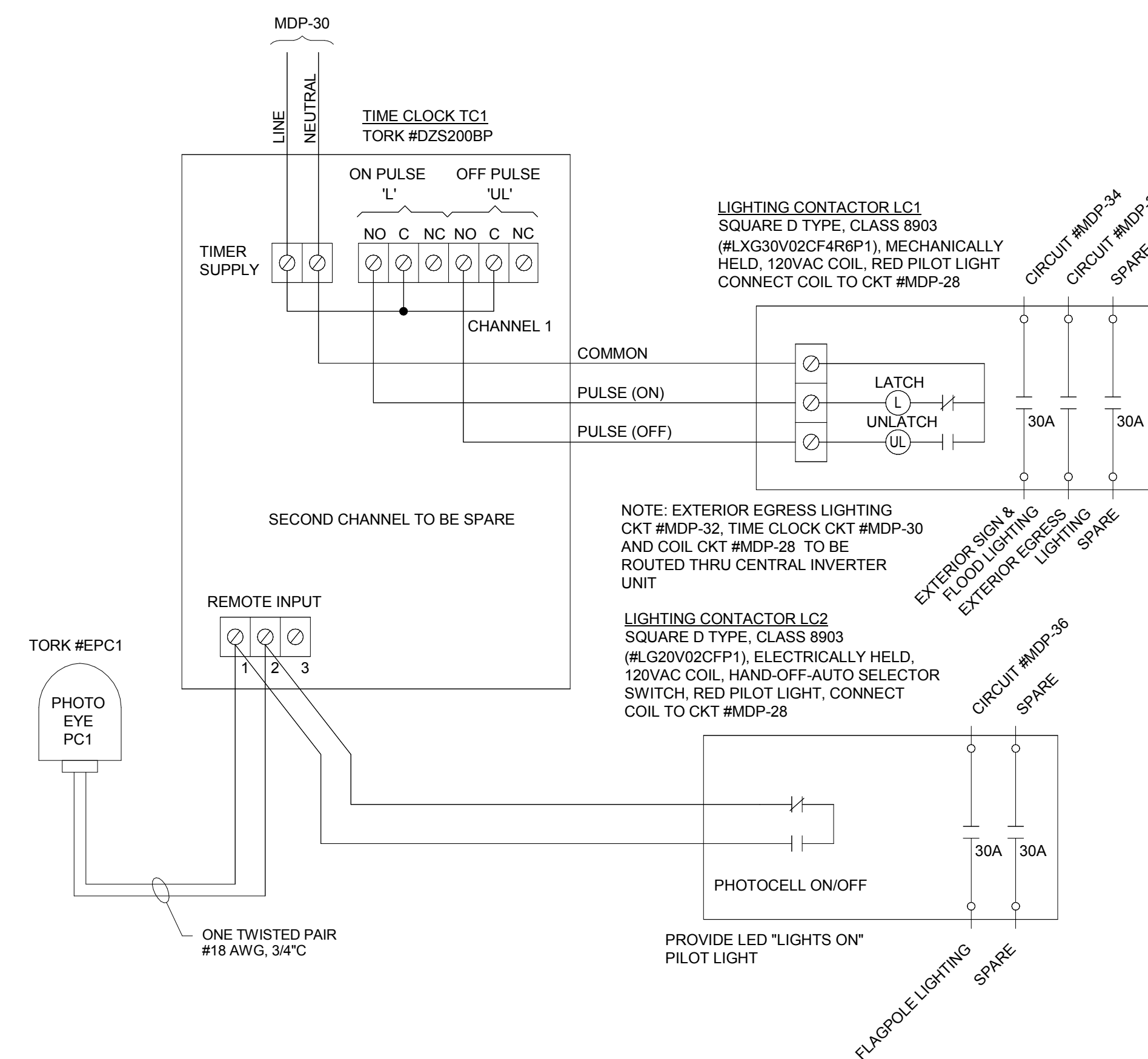
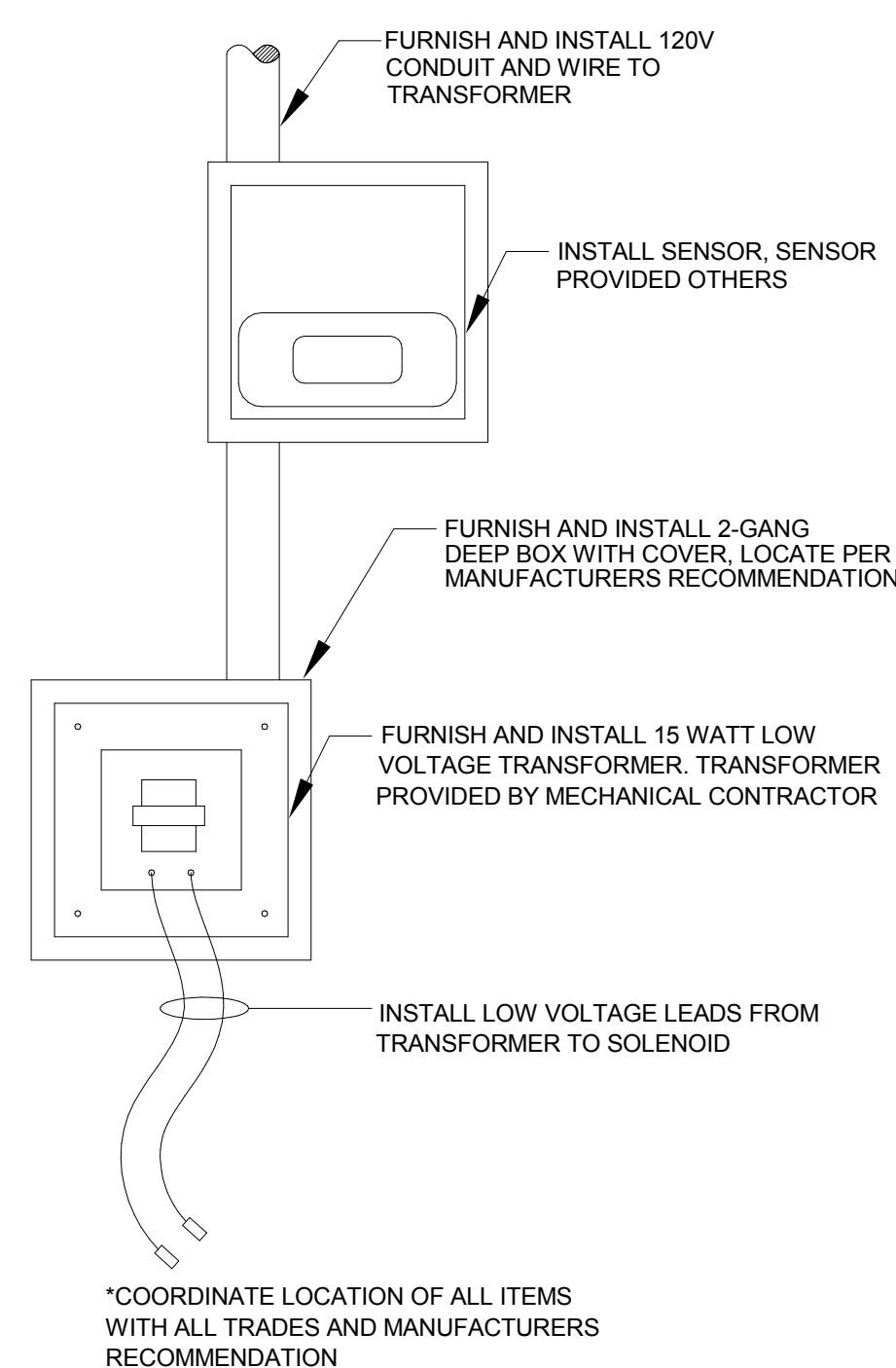
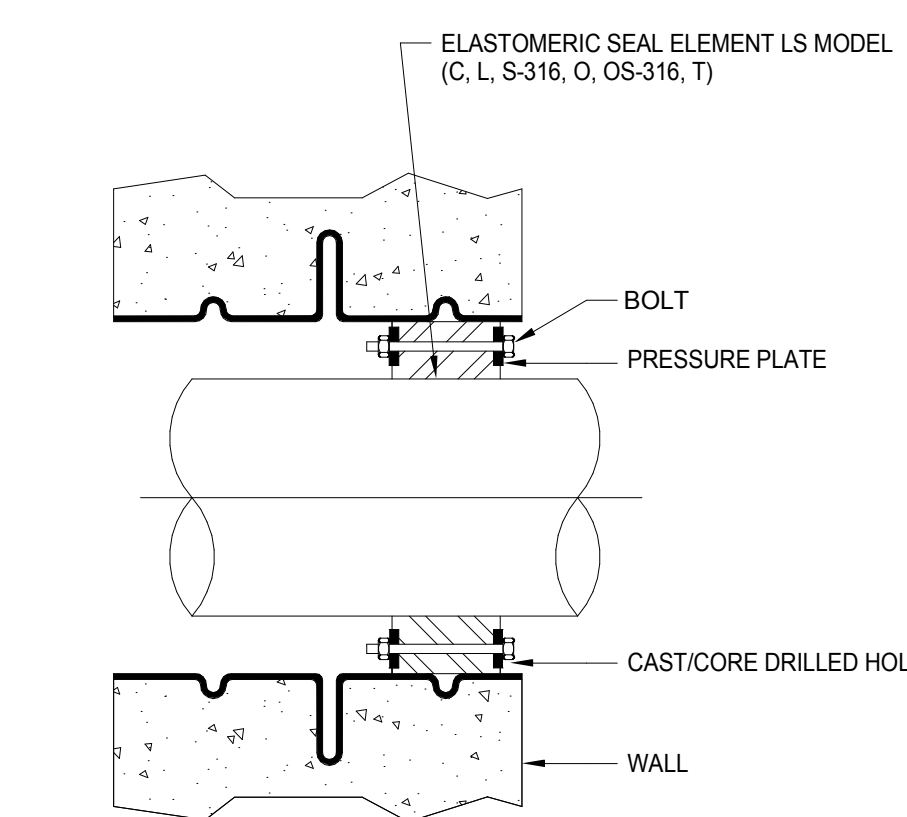
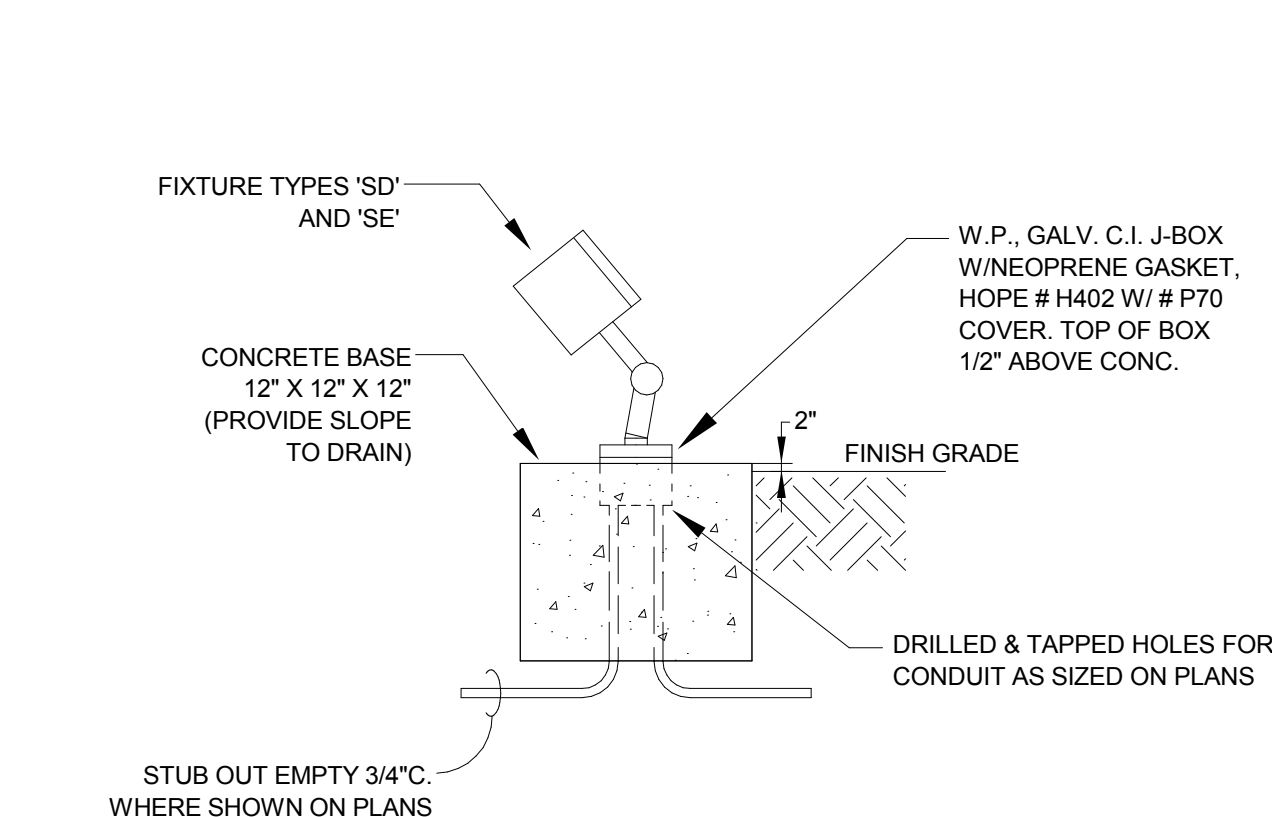


- ## NOTES:
1. PROVIDE 1/4"D x 4"H x 2'-0" L COPPER GROUND BUS BAR WITH INSULATED W/IT BRACKET ASSEMBLY, ERICO EGB-A-14-4-24-CC OR APPROVED EQUAL AS SPECIFIED. PREDRILLED NEMA BOLT CONFIGURATION AS INDICATED. PROVIDE BRASS METAL NAME TAGS ON EACH GROUNDING CABLE INDICATING IDENTIFYING TAG OF EQUIPMENT BEING GROUNDED. TERMINATE GROUNDING CABLE WITH NEMA TWO-HOLE BOLTED LUG.
 2. REFER TO EQUIPMENT PLANS FOR GROUNDING CABLE SIZES, QUANTITIES AND EQUIPMENT DESCRIPTIONS.



GENERAL NOTE:

RECORD LOCATIONS OF REMOTE AND/OR CONCEALED FIELD INSTALLED DEVICES (I.E. POWER PACKS, LIGHTING CONTROLLERS, ETC. LOCATED ABOVE SUSPENDED CEILING) ON ELECTRICAL RECORD DRAWINGS. REVISE LOCATIONS ON SUBMITTED SHOP DRAWINGS AND INCLUDE WITH O&M MANUAL.

[illegible]

DRAWN: RDW	CHK'D: MLH
DESIGNED: RDW	
APPR'D: TKF	
DATE: DECEMBER 06, 2018	
PROJECT NUMBER	
1821-7001-50	