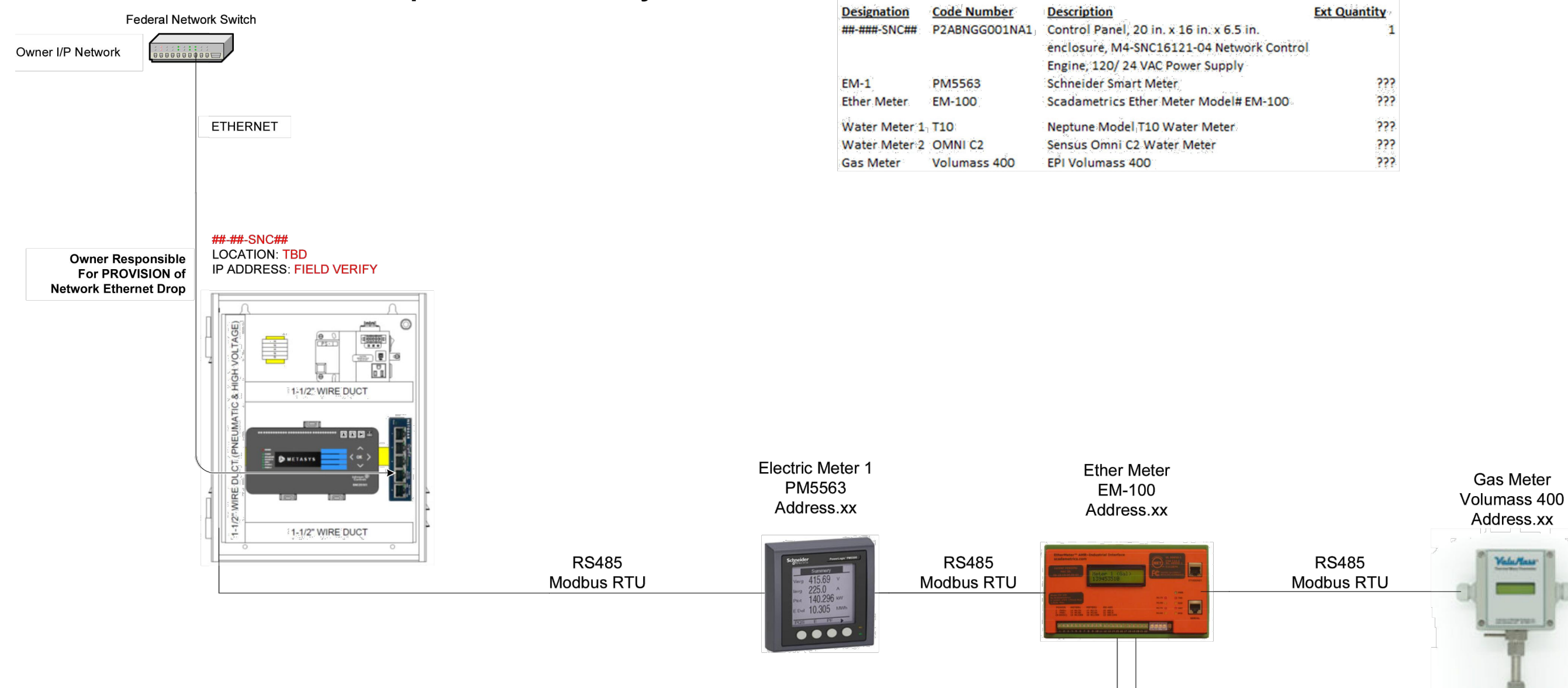


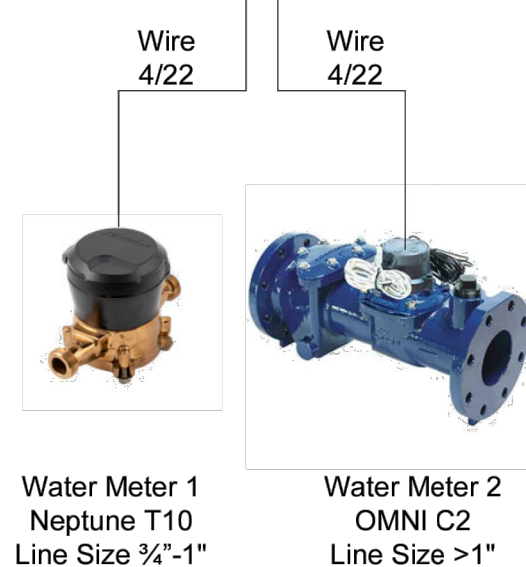
Sample Meter Flow Layout





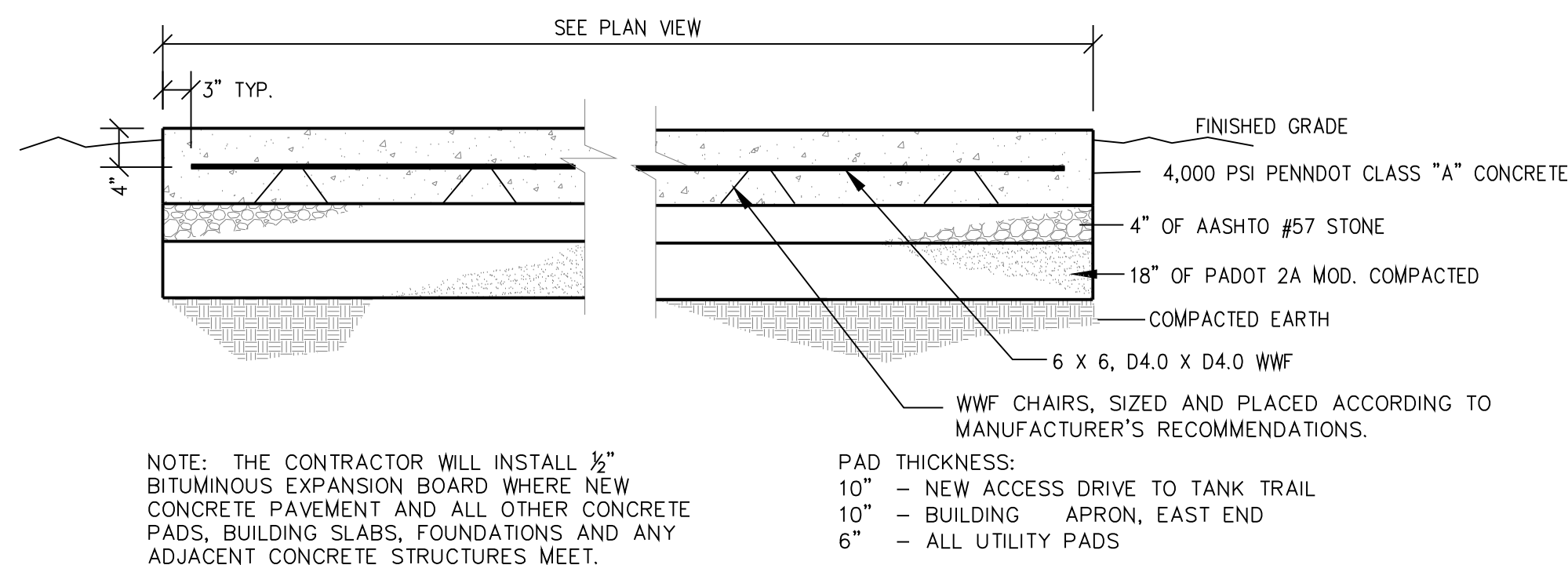
<u>Bill Of Material</u>			
Designation	Code Number	Description	Ext Quantity
##-###-SN-C#	PA2BNGG00G01A1	Control Panel, 20 in. x 16 in. x 6.5 in. enclosure, 16A-50/5121-04 Network Control Engine, 120/ 24 VAC Power Supply	1
EM-1	PM5562	Schneider Smart Meter	???
Ether Meter	EM-100	Scadamectrics ether Meter Model# EM-100	???
Water Meter: 1	T10	Neptune Model T10 Water Meter	???
Gas Meter: 2	OMNI C2	Sensus Omni C2 Water Meter	???
Gas Meter	Volumass 400	Omni Volumass 400	???

BUILDING MANAGEMENT SYSTEM - CONTROLS

1. PROVIDE BUILDING MANAGEMENT SYSTEM (BMS) CONTROL PANEL. SYSTEM SHALL BE JOHNSON CONTROLS METASYS AND BE AN EXTENSION OF THE EXISTING BASE-WIDE BUILDING MANAGEMENT SYSTEM.
2. CONTACT CHRISTOPHER BARLOW AT JCI, 717-712-1871
BMS WILL INTERFACE TO AC SYSTEMS FOR REMOTE MONITORING.
BMS CONTRACTOR WILL FURNISH GAS SUBMETER MODEL AL-800 AND IMAC PULSIMATIC TRANSMITTER (WATER SUBMETER). CONNECT ELECTRIC SMART METER TO BMS.

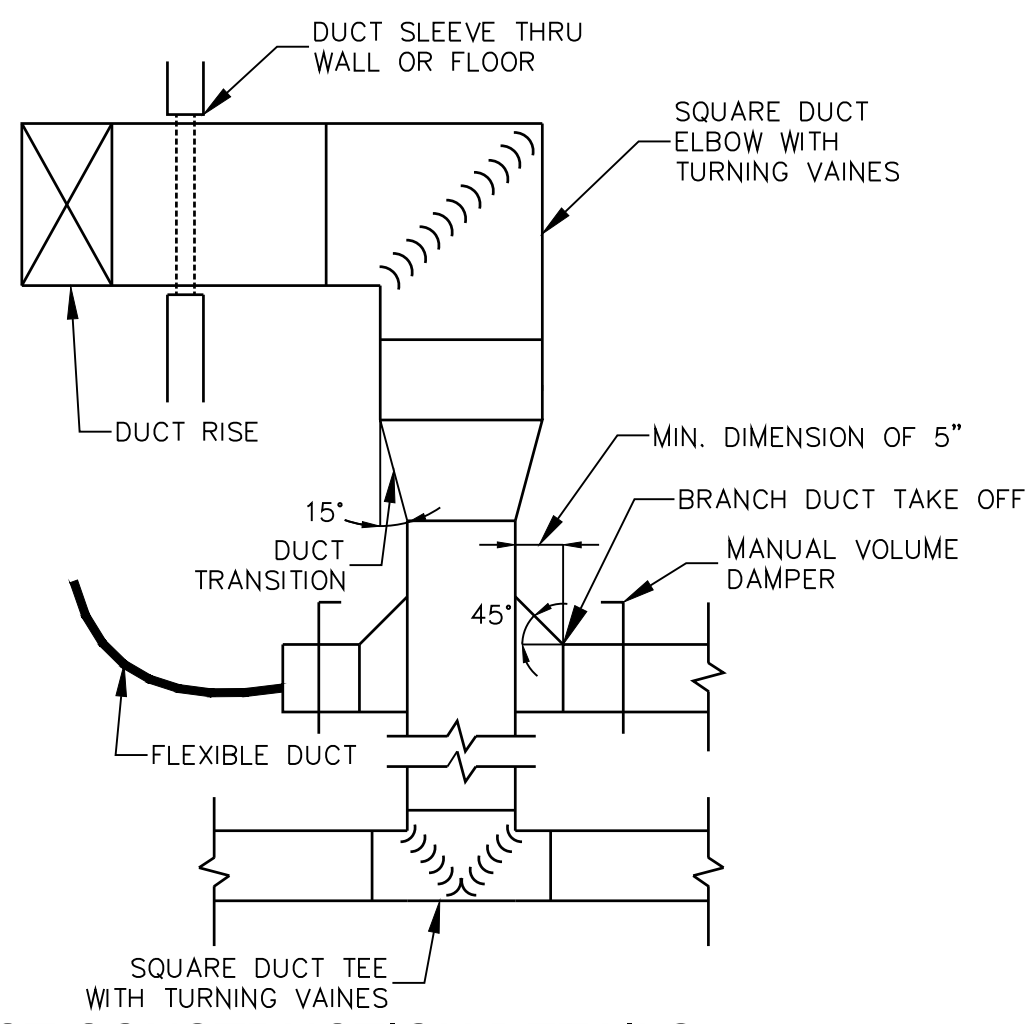


Drawing Title											
Sample Meter Flow Layout											
		REFERENCE DRAWING		NO		REVISION/LOCATION		EON		DATE BY	
		Sales Engineer		Project Manager		Application Engineer		DRAWN		APPROVED	
				BK		BY BK		DATE 2/18/2022		BY DATE	
						Branch Information				CONTRACT NUMBER	
Project Title											
FTIG MATOC Metering						Phone:				DRAWING NUMBER	



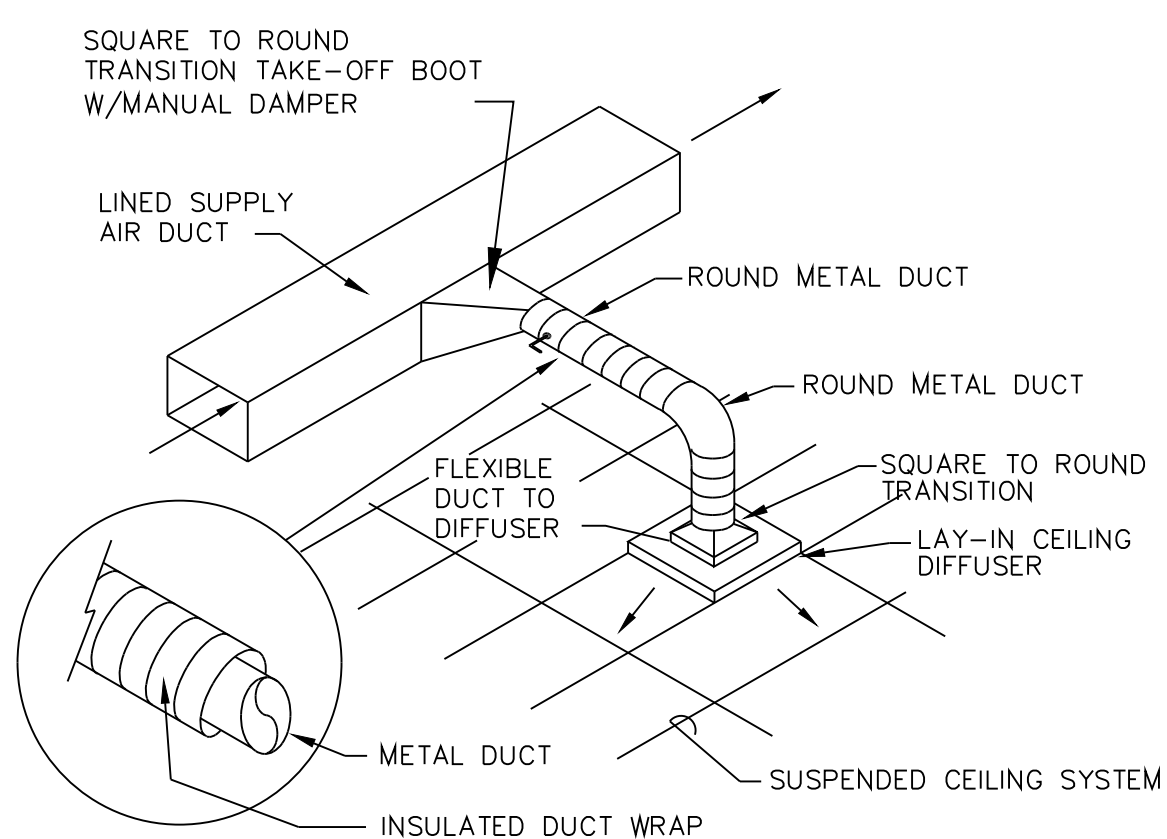
CONCRETE PAD DETAIL (TYPICAL)

NO SCALE



DUCT CONSTRUCTION DETAILS

NO SCALE



TYPICAL BRANCH DUCT CONNECTION DETAIL

NO SCALE

- NOTES
1. PROVIDE ALL MATERIALS AND LABOR FOR COMPLETE AND PROPERLY FUNCTIONING MECHANICAL SYSTEMS. WARRANTY ALL WORK AND ALL MATERIALS, EQUIPMENT AND DEVICES FOR A PERIOD OF ONE YEAR AFTER OWNER'S ACCEPTANCE.
 2. WORK SHALL CONFORM TO OR MEET THE REQUIREMENTS OF THE MOST CURRENT EDITION OF:
 - A. INTERNATIONAL MECHANICAL CODE – 2015
 - B. SMACNA
 - C. ASHRAE
 - D. ALL FEDERAL, STATE AND LOCAL CODES AND ORDINANCES WHICH APPLY TO THIS WORK
 3. DRAWINGS ARE DIAGRAMMATIC IN NATURE AND ARE NOT INTENDED TO BE SCALED FOR DIMENSIONS.
 4. ALL MATERIALS, EQUIPMENT AND DEVICES SHALL MEET THE REQUIREMENTS OF UL WHERE UL STANDARDS ARE ESTABLISHED FOR THOSE ITEMS. ALL ITEMS SHALL BE CLASSIFIED BY UL AS SUITABLE FOR THE PURPOSE USED.
 5. COORDINATE LOCATION OF MECHANICAL WORK WITH OTHER TRADES TO AVOID CONFLICTS AND INTERFERENCES.
 6. INSTALL ALL EQUIPMENT AND MATERIAL IN ACCORDANCE WITH MANUFACTURER'S WRITTEN, PRINTED INSTRUCTIONS AND RECOMMENDATIONS.
 7. ALL EQUIPMENT, PIPE AND DUCTWORK ABOVE CEILING SHALL BE SUPPORTED FROM BUILDING STRUCTURE ABOVE.
 8. ALL BUILDING PENETRATIONS SHALL BE COORDINATED WITH ARCHITECT.
 9. PROVIDE SEISMIC RESTRAINTS IN ACCORDANCE WITH IBC 2015 AS MANUFACTURED BY MASON INDUSTRIES OR APPROVED EQUIV. SUBMIT SHOP DRAWINGS FOR APPROVAL.
 10. ABOVE GRADE GAS PIPING 2" AND SMALLER SHALL BE STANDARD WEIGHT (SCHEDULE 40), BUTT WELD, BLACK STEEL, ENDS THREADED, AND COMPLY WITH ASTM A53. FITTINGS SHALL BE 150 POUND, BLACK MALLEABLE IRON, THREADED JOINT, AND COMPLY WITH ASTM A47/A581 B16.3.
 11. ALL VENTS, DUCTS, AND SIMILAR OPENINGS IN EXCESS OF 96 SQUARE INCHES THAT ENTER OR PASS THROUGH A SAFP MUST BE PROTECTED WITH EITHER BARS OR GRILLS. IF ONE DIMENSION OF THE DUCT MEASURES LESS THAN SIX INCHES, OR DUCT IS LESS THAN 96 SQUARE INCHES, BARS, OR GRILLS ARE NOT REQUIRED. BARS MUST BE 1/2 INCH DIAMETER STEEL SPOT WELDED TO THE STEEL STRUCTURE; A DEVIATION OF 1/2 INCH IN VERTICAL AND/OR HORIZONTAL SPACING IS PERMISSIBLE.

NO.	DESCRIPTION	DATE

REVISIONS

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COMMONWEALTH OF PENNSYLVANIA
DEPARTMENT OF MILITARY AND VETERANS AFFAIRS
BUREAU OF DESIGN AND PROJECT MANAGEMENT
BLDG. 0-10 FORT INDIANTOWN GAP
ANNVILLE, LEBANON COUNTY, PA 17003

DMVA PROJECT NO.: 42220110

BUILDING RENOVATION

BUILDING 4-19, SERVICE ROAD, FTIG
ANNVILLE, LEBANON COUNTY, PA 17003

SCHEDULES, NOTES & DETAILS

CONTRACTOR SHALL FIELD VERIFY ALL DIMENSIONS. VARIANCE FROM CONTRACT DOCUMENTS NOT PERMITTED WITHOUT BUREAU OF ENGINEERING AND ARCHITECTURE APPROVAL.	DRAWN BY: B. TOEVS	DATE: 18 APR. 2023	DRAWING NO. <div style="font-size: 2em; font-weight: bold;">H.2.1</div>
	CHECKED BY:	SCALE: AS SHOWN	

<div>CU</div> <div>AHU</div>		DUCTLESS A/C FAN COIL UNIT SCHEDULE										(ARI CAPACITIES)	
SYMBOL	BASIS OF DESIGN		SUPPLY FAN	COOLING CAPACITY DATA			HEATING CAPACITY DATA			ELECTRICAL CHARACTERISTICS		REMARKS	
	MFG.	MODEL NO.	TOTAL C.F.M.	TOTAL M.B.H.	E.A.T.		TOTAL M.B.H.	E.A.T.		POWER SUPPLY RATED CURRENT	VOLTAGE		
CU-2	AHU-2	YORK	DHP18NW621S	471	20.0	80	67	23.4	70	70	11.54	208/60/1	1, 2
REMARKS													
1. PROVIDE LITTLE GIANT VQMA-15 SERIES CONDENSATE PUMP													
2. POWER FOR AHU IS FED THROUGH THE CONDENSING UNIT. WIRING SHALL BE PROVIDED WITH REFRIGERANT LINE SET THE REFRIGERANT LINE SET AND INDOOR POWER WIRING SHALL BE ROUTED TOGETHER													

EXHAUST FAN SCHEDULE									
SYMBOL	SERVING	BASIS OF DESIGN		TYPE	C.F.M.	E.S.P.	ELECTRICAL DATA		REMARKS
		MFG.	MODEL NO.				FAN MOTOR M.O.P.	VOLTAGE	
EF-1,2	TOILET ROOM	GREENHECK	SP-A90	C	100	0.10	15	115V-1 ϕ	1 2
REMARKS									
1 PROVIDE WITH INTERNAL BACKDRAFT DAMPER, DISCONNECT SWITCH, HANGING ISOLATORS AND SQUARE TO ROUND DUCT TRANSITION.									
2 PROVIDE WITH GREENHECK MODEL 5WSSC SPEED CONTROL (OR APPROVED EQUAL) FOR BALANCING TO SCHEDULED C = CEILING TYPE									

ELECTRIC WALL HEATER SCHEDULE												
SYMBOL	LOCATION	BASIS OF DESIGN		TYPE	BTU OUTPUT	C.F.M.	TOTAL WATTS	VOLTAGE	AMPS	MOUNTING HEIGHT	UNIT DIMENSIONS DEPTH X WIDTH X HEIGHT	REMARKS
		MFG.	MODEL NO.									
EWH-1.2	RESTROOM / JC	QMARK	CWH151SDS	SM	2560	65	750	120V-1ø	6.25	18"	4" x 9" x 11"	1
REMARKS												TYPE
1 UNIT SHALL BE PROVIDED WITH SELF CONTAINED THERMOSTAT, BUILT-IN POWER DISCONNECT, FAN DELAY AND COMMERCIAL GRADE STEEL GRILLE.												SM = SURFACE MOUNT

AHU SPLIT SYSTEM AIR HANDLER SCHEDULE								
SYMBOL	SERVES	TOTAL CFM	ELECTRICAL DATA		LIQUID PROPANE GAS FURNACE DATA			
			FAN	VOLTAGE	INPUT	OUTPUT	AFUE	TEMP RISE
			MCA		MBH	MAX/MIN	%	° F MAX/MIN
AHU-1	ROOMS	1,800	12	120/1	120/42	116/40	98.0	45- 75/25-55

SPLIT SYSTEM CONDENSING UNIT SCHEDULE								
SYMBOL	COOLING CAPACITY - 80°/67°		COOLING DATA			ELECTRICAL DATA		REMARKS
	TOTAL MBH	SENSIBLE MBH	NOM. TONS	EER	COND EAT	CU MCA	VOLTAGE	
CU-1	58.0	41.0	5.0	12.5	95	21.2	208/1/60	①②

REMARKS

- ① BASIS OF DESIGN: YORK MODEL#YP9C120D20MP12C FURNACE / #YCG60B21S CU / CF/CM64D COIL OR APPROVED EQUAL. MOUNT AIR HANDLER ON A MAINTENANCE PAD ON THE FLOOR AS PER MANUFACTURER'S WRITTEN INSTRUCTIONS. PROVIDE MAINTENANCE PAD, SUPPORTS AND VIBRATION ISOLATION AS REQUIRED.

- ② FURNISH AND INSTALL UNIT WITH THE FOLLOWING ACCESSORIES:
- A. CONDENSATE DRAIN WITH 2" DEEP TRAP.
 - B. WEATHERPROOF DISCONNECT SWITCH FOR C.U.
 - C. DISCONNECT FOR AIR HANDLER
 - D. PROVIDE WITH LOW AMBIENT KIT.
 - E. UV LIGHT