

AIR HANDLER - ELECTRIC				
DESIGNATION	AHU-1	AHU-2	AHU-3	AHU-4
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL	FB4C	FB4C	FB4C	FB4C
CFM	800	1000	1000	800
OUTSIDE AIR CFM	165	295	420	125
EXTERNAL STATIC PRES. (IN. W.G.)	0.5	0.5	0.5	0.5
MOTOR HORSEPOWER	1/3	3/4	3/4	1/3
COOLING				
ENT. AIR (DBWB)	80/67	80/67	80/67	80/67
TOTAL COOLING CAP (MBH)	22.80	45.00	55.00	14.20
SENSIBLE COOLING CAP (MBH)	17.74	39.00	41.00	13.80
HEATING				
INTEGRATED HP OUTPUT (MBH) @47DEG	23.20	42.60	52.60	13.00
ELEC. HEATING OUTPUT (MBH) AT 208V	38.59	61.47	76.84	13.00
ELEC. HEATING OUTPUT (KW) AT 208V	11.30	18.00	22.50	7.50
HEATING TEMPERATURE RISE (DB)	45	36	36	20
STAGES OF HEATING	1	1	1	1
FILTER				
FILTER TYPE	2" PLEATED	2" PLEATED	2" PLEATED	2" PLEATED
SIZE	MERV 8	MERV 8	MERV 8	MERV 8
ELEC. DATA				
VOLTAGE/PHASE	208/1	208/3	208/3	208/1
MCA	76.3	71.2	86.8	53.8
PANEL AND CIRCUIT	C-43.45	C-34.36.38	C-37.39.41	C-51.53
WIRE AND CONDUIT	(2)#3,#8G, 1" C	(3)#3,#8G, 1" C	(3)#2,#8G, 1" C	(2)#4 #10G, 1" C
OVERCURRENT DEVICE	80A-2P	80A-3P	90A-3P	60A-2P
DISCONNECT	100A-NF	100A-FUSED	100A-FUSED	100A-NF
CONTROL SEQUENCE	NOTE 1	NOTE 1	NOTE 1	NOTE 1
REFERENCE DRAWING/DETAIL	M101	M101	M101	M101
REMARKS	NOTE 1	NOTE 1	NOTE 1	NOTE 1

HEAT PUMP SCHEDULE				
DESIGNATION	HP-1	HP-2	HP-3	HP-4
MANUFACTURER	CARRIER	CARRIER	CARRIER	CARRIER
MODEL NO.	25HCE	25HCE	25HCE	25HCE
MINIMUM TONNAGE	2	4	5	1.5
MINIMUM S.E.E.R.	14	14	14	14
MINIMUM HSPF @ AHRI	8.2	8.2	8.2	8.2
AMBIENT AIR TEMP (°F)	95	95	95	95
NO COMPRESSORS / STAGES	1 / 1	1 / 1	1 / 1	1 / 1
ELEC. DATA				
VOLTAGE/PHASE	208/1	208/1	208/1	208/1
MCA	14.2	25.2	32	11.8
PANEL AND CIRCUIT	C-48.50	C-52.54	C-56.58	C-55.57
WIRE AND CONDUIT	(2)#10,#10G, 1/2" C	(2)#8,#10G, 3/4" C	(2)#6,#10G, 3/4" C	(2)#12,#12G, 1/2" C
OVERCURRENT DEVICE	25A-2P	40A-2P	50A-2P	20A-2P
DISCONNECT	30A-NF	60A-NF	60A-NF	30A-NF
REFERENCE DRAWING/DETAIL	ME201	ME201	ME201	ME201
REMARKS	NOTE 2	NOTE 2	NOTE 2	NOTE 2

- NOTES:
- PROVIDE 18" HIGH FLOOR STAND. PROVIDE DUCT MOUNTED FILTER RACK. PROVIDE HI-CONDENSATE WATER SENSOR IN DRAIN PAN TO SHUT OFF UNIT. ROUTE REFRIGERANT PIPING UP TO HEAT PUMP ON THE ROOF. SIZE AS REQUIRED BY MANUFACTURER. PROVIDE 7-DAY PROGRAMMABLE THERMOSTAT IN LOCK BOX.
 - MOUNT UNIT ON 18" HIGH ROOF STAND BY QUICK SLUNG.

AIR CONDITIONING UNIT SCHEDULE

INDOOR UNIT			
DESIGNATION	AC-1	AC-2	AC-3
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI
MODEL	PEAD-A12AA7	PLA-A24EA7	PKA-A12LA
CFM	500	810	455
TOTAL COOLING CAP (MBH) AT 95 DEG	12.0	24.0	12.0
SEER/EEER AT AHRI	21.1 / 13	24.2 / 14.3	21 / 13.3
TOTAL HEATING CAP (MBH) AT 47 DEG	—	26.0	14.0
TOTAL HEATING CAP (MBH) AT 17 DEG	—	14.9	10.6
HSPF AT AHRI	—	11.2	10.2
ELEC. DATA			
MCA	NOTE 1	NOTE 1	NOTE 1
VOLTAGE/PHASE	NOTE 1	NOTE 1	NOTE 1
PANEL AND CIRCUIT	NOTE 1	NOTE 1	NOTE 1
WIRE AND CONDUIT	NOTE 1	NOTE 1	NOTE 1
OVERCURRENT DEVICE	NOTE 1	NOTE 1	NOTE 1
DISCONNECT	NOTE 1	NOTE 1	NOTE 1
REFERENCE DRAWING/DETAIL	M103	M101	M101
REMARKS	NOTE 3, 4, 5	NOTE 3, 5	NOTE 3, 6
OUTDOOR UNIT			
DESIGNATION	CU-1	CU-2	CU-3
MANUFACTURER	MITSUBISHI	MITSUBISHI	MITSUBISHI
MODEL NO.	PUY-A12KA7	PUZA24NA7	PUZA12KA7
AMBIENT AIR TEMP (DEG F.)	95	95	95
MCA	11	19	11
VOLTAGE/PHASE	208/1	208/1	208/1
PANEL AND CIRCUIT	C-19.21	C-23.25	C-27.29
WIRE AND CONDUIT	(2)#12,#12G, 1/2" C	(2)#10,#10G, 1/2" C	(2)#12,#12G, 1/2" C
OVERCURRENT DEVICE	15A-2P	25A-2P	15A-2P
DISCONNECT	30A-2P NF	30A-2P NF	30A-2P NF
REFERENCE DRAWING/DETAIL	ME201	ME201	ME201
REMARKS	NOTE 2	NOTE 2	NOTE 2

- NOTES:
- INDOOR UNIT CIRCUITED THROUGH OUTDOOR UNIT.
 - PROVIDE 18" HIGH QUICK SLUNG EQUIPMENT STAND. PROVIDE WIND BAFFLE FOR LOW AMBIENT OPERATION.
 - PROVIDE MHK1 PROGRAMMABLE, WALL-MOUNTED CONTROLLER IN LOCK BOX.
 - PROVIDE REMOTE TEMPERATURE SENSOR LOCATED IN ELEVATOR SHAFT. MOUNT UNIT CONTROLLER ON UNIT.
 - PROVIDE INTEGRAL CONDENSATE PUMP. PROVIDE SAFETY INTERLOCK SO THAT IF CONDENSATE PUMP FAILS THE UNIT TURNS OFF. ROUTE 3/4" CONDENSATE TO NEAREST FLOOR SINK OR SINK TAILPEICE. COORDINATE WITH PLUMBING CONTRACTOR.
 - PROVIDE CONDENSATE PUMP WITH COVER. PROVIDE SAFETY INTERLOCK SUCH THAT IF CONDENSATE PUMP FAILS THE UNIT TURNS OFF. ROUTE 3/4" CONDENSATE TO NEAREST FLOOR SINK OR SINK TAILPEICE. COORDINATE WITH PLUMBING CONTRACTOR.

PTAC UNIT SCHEDULE															
DESIGNATION	PTAC-A	PTAC-B	PTAC-1	PTAC-2	PTAC-3	PTAC-4	PTAC-5	PTAC-6	PTAC-7	PTAC-8	PTAC-9	PTAC-10	PTAC-11		
MANUFACTURER	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA	AMANA		
MODEL	PTH07	PTH09	PTH07	PTH07	PTH07	PTH07	PTH07	PTH07	PTH07	PTH07	PTH07	PTH07	PTH07		
CFM	370	360	370	370	370	370	370	370	370	370	370	370	370		
OUTDOOR AIR CFM	65	65	95	0	95	0	65	95	0	65	65	65	65		
TOT. COOLING CAP. AT 95F (MBH)	7.0	9.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0	7.0		
COOLING EER	12.4	12	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4	12.4		
HEATING CAP. AT 47F (MBH)	6.4	8.0	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4	6.4		
HEATING COP	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4	3.4		
SUPP. ELEC. HEAT CAP. AT 208V (MBH)	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9	9.9		
SUPP. ELEC. HEAT CAP. AT 208V (KW)	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9	2.9		
ELECTRICAL															
MCA	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5	19.5		
VOLTAGE/PHASE	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1	208/1		
PANEL & CIRCUIT	G(VARIES)	G(VARIES)	B-20.22	B-24.26	B-28.30	B-32.34	B-36.38	B-40.42	B-44.46	B-48.50	B-52.54	B-56.58	B-60.62		
WIRE & CONDUIT	(2)#10,#10G, 1/2" C	(2)#10,#10G, 1/2" C	(2)#10,#10G, 1/2" C	(2)#10,#10G, 1/2" C	(2)#10,#10G, 1/2" C	(2)#10,#10G, 1/2" C	(2)#10,#10G, 1/2" C	(2)#10,#10G, 1/2" C	(2)#10,#10G, 1/2" C	(2)#10,#10G, 1/2" C	(2)#10,#10G, 1/2" C	(2)#10,#10G, 1/2" C	(2)#10,#10G, 1/2" C		
OVERCURRENT DEVICE	30A-2P	30A-2P	30A-2P	30A-2P	30A-2P	30A-2P	30A-2P	30A-2P	30A-2P	30A-2P	30A-2P	30A-2P	30A-2P		
DISCONNECT	RECEPTACLE	RECEPTACLE	RECEPTACLE	RECEPTACLE	RECEPTACLE	RECEPTACLE	RECEPTACLE	RECEPTACLE	RECEPTACLE	RECEPTACLE	RECEPTACLE	RECEPTACLE	RECEPTACLE		
REFERENCE DRAWING/DETAIL	(TYP)	(TYP)	M101	M101	M102	M102	M102	M102	M102	M102	M103	M103	M103		
REMARKS	NOTE 1, 2	NOTE 1, 2	NOTE 1, 3	NOTE 1, 4	NOTE 1, 3	NOTE 1, 4	NOTE 1, 5	NOTE 1, 3	NOTE 1, 4	NOTE 1, 5	NOTE 1, 3	NOTE 1, 4	NOTE 1, 5		

- NOTES:
- PROVIDE ARCHITECTURAL OUTDOOR GRILLE AND WALL SLEEVE. COORDINATE SLEEVE LENGTH WITH ARCHITECT. GRILLE AND SLEEVE TYPE/COLOR SELECTED BY ARCHITECT. PROVIDE BLACK, POWERED, SUB-BASE KIT. ELECTRICIAN TO HARD-WIRE TO SUB-BASE JUNCTION BOX. SUB-BASE COMES WITH REQUIRED RECEPTACLE FOR PTAC TO PLUG INTO. PROVIDE FILTERS, CONDENSATE DRAIN KIT, CONDENSER BAFFLE KIT. PROVIDE EDEN ENERGY MANAGEMENT SYTEM FOR CONTROL OF ALL PTAC UNITS. CONTROLS SHALL PROVIDE A 1-YEAR SUBSCRIPTIONS AND A WEB ENABLED PLATFORM CONTROLLER. REFER TO OTHER NOTES FOR COMPONENTS REQUIRED FOR PTAC UNITS FOR DIFFERENT SPACE TYPES.
 - GUESTROOM VENTILATION VIA PTAC. PROVIDE VENTILATION POWER DOOR KIT. PROVIDE SMART VENT AND ECONOMIZER CONTROLS WITH INSECT SCREEN. PROVIDE CURTAIN BAFFLE KIT. PROVIDE WIRELESS RF CONTROLS WITH WALL THERMOSTAT WITH SECONDARY MOTION SENSOR, DOOR SWITCH/OCCUPANCY SENSOR.
 - CORRIDOR VENTILATION VIA PTAC. PROVIDE POWER VENTILATION KIT. PROVIDE WIRELESS RF CONTROLS WITH THERMOSTAT. PROVIDE THERMOSTAT LOCK BOX.
 - CORRIDOR HAS NO VENTILATION VIA PTAC. PERMANENTLY CLOSE VENTILATION. PROVIDE THERMOSTAT LOCK BOX.
 - HOUSEKEEPING VENTILATION VIA PTAC. PROVIDE VENTILATION POWER DOOR KIT. PROVIDE WIRELESS RF CONTROLS WITH THERMOSTAT. PROVIDE THERMOSTAT LOCK BOX.

FAN SCHEDULE															
DESIGNATION	EF-A	EF-B	EF-1	EF-2	EF-3	EF-4	BF-A	BF-1	BF-2	BF-3	BF-4	BF-5	BF-6		
FAN TYPE	CEILING	CEILING	CEILING	CEILING	THRU-WALL	WALL	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE	INLINE		
SERVICE	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	EXHAUST	DRYER EXHAUST	DRYER EXHAUST	DRYER EXHAUST	DRYER EXHAUST	DRYER EXHAUST	DRYER EXHAUST	DRYER EXHAUST		
MANUFACTURER	BROAN	BROAN	BROAN	BROAN	PANASONIC	GREENHECK	FANTECH	FANTECH	FANTECH	FANTECH	FANTECH	FANTECH	FANTECH		
MODEL	XB50	XB50	XB80	XB80	FV-08WQ1	SQ-70-VG	DEDPV-705	DEDPV-705	DEDPV-705	DEDPV-705	DEDPV-705	DEDPV-705	DEDPV-705		
UNIT DATA															
CFM	50	50	70	70	70	210	160	160	160	160	160	160	160		
STATIC PRESSURE	0.25	0.25	0.4	0.4	0.03	0.25	-	-	-	-	-	-	-		
FAN RPM	-	-	-	-	-	1635	-	-	-	-	-	-	-		
BRAKE HORSEPOWER	-	-	-	-	-	0.03	-	-	-	-	-	-	-		
MOTOR HORSEPOWER	-	-	-	-	-	1/15	-	-	-	-	-	-	-		
VOLTAGE/PHASE	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1	120/1		
DRIVE	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT	DIRECT		
ELECTRICAL/CONTROL DATA															
PANEL & CIRCUIT	G (VARIES)	NOTE 6	C-30	C-32	D-4	D-6	VARIES	C-40	C-42	C-44	C-46	C-60	C-62		
WIRE & CONDUIT	(2)#12,#12G, 1/2" C	(2)#12,#12G, 1/2" C	(2)#12,#12G, 1/2" C	(2)#12,#12G, 1/2" C	(2)#12,#12G, 1/2" C	(2)#12,#12G, 1/2" C	(2)#12,#12G, 1/2" C	(2)#12,#12G, 1/2" C	(2)#12,#12G, 1/2" C	(2)#12,#12G, 1/2" C	(2)#12,#12G, 1/2" C	(2)#12,#12G, 1/2" C	(2)#12,#12G, 1/2" C		
OVERCURRENT DEVICE	15A-1P	15A-1P	15A-1P	15A-1P	15A-1P	15A-1P	15A-1P	15A-1P	15A-1P	15A-1P	15A-1P	15A-1P	15A-1P		
DISCONNECT	-	-	-	-	-	-	RECEPTACLE	RECEPTACLE	RECEPTACLE	RECEPTACLE	RECEPTACLE	RECEPTACLE	RECEPTACLE		
STARTER	-	-	-	-	-	-	-	-	-	-	-	-	-		
COMBINATION STARTER	-	-	-	-	-	-	-	-	-	-	-	-	-		
CONTROL	SWITCH W/LIGHTS	NOTE 5	SWITCH W/LIGHTS	SWITCH W/LIGHTS	SWITCH W/LIGHTS	CONTINUOUS	NOTE 4	NOTE 4	NOTE 4	NOTE 4	NOTE 4	NOTE 4	NOTE 4		
DAMPER TYPE	INTEGRAL BACKDRAFT	INTEGRAL BACKDRAFT	INTEGRAL BACKDRAFT	INTEGRAL BACKDRAFT	INTEGRAL BACKDRAFT	S.S. BACKDRAFT	BACKDRAFT AT DISCHARGE	BACKDRAFT AT DISCHARGE	BACKDRAFT AT DISCHARGE	BACKDRAFT AT DISCHARGE	BACKDRAFT AT DISCHARGE	BACKDRAFT AT DISCHARGE	BACKDRAFT AT DISCHARGE		
DAMPER VOLTAGE	-	-	-	-	-	-	-	-	-	-	-	-	-		
REFERENCE DRAWING/DETAIL	(TYP)	(TYP)	M101	M101	M201 (POOL OPTION)	M201 (POOL OPTION)	(TYP)	M101	M101	M101	M101	M101	M101		
REMARKS	NOTE 1	NOTE 1	-	-	NOTE 2	NOTE 3	NOTE 4	NOTE 4	NOTE 4	NOTE 4	NOTE 4	NOTE 4	NOTE 4		

- NOTES:
- PROVIDE CEILING RADIATION DAMPER FOR FANS AT LEVELS 2, 3, 4
 - PROVIDE MANUFACTURER'S EXTERIOR HOOD WITH BACKDRAFT DAMPER AND BIRD SCREEN.
 - MOUNT IN DOWNWARD ORIENTATION TO WALL WITH ANGLE SUPPORT WITH NEOPRENE BUSHINGS. FAN SHALL BE OF ALL ALUMINUM CONSTRUCTION.
 - PROVIDE OBLTAW LINT TRAP UPSTREAM OF DRYER BOOSTER FAN. INSTALL BOTH LINT TRAP AND BOOSTER FAN EXPOSED BEHIND THE DRYER. BOOSTER FAN TO HAVE PRESSURE SWITCH TO AUTOMATICALLY TURN ON FAN WITH DRYER OPERATION. DOWNSTREAM OF BOOSTER FAN ROUTE 4" DRYER EXHAUST INTO WALL CAVITY TO ROUTE TO THE ROOF.
 - CONTROLLED VIA WALL MOUNTED THERMOSTAT
 - CIRCUIT EXHAUST FANS FOR CIRCUITS B-51, L2-6, L3-6, AND L4-9 ON CORRESPONDING FLOORS.

UNIT HEATER SCHEDULE - ELECTRIC

DESIGNATION	UH-1	UH-2	UH-3	UH-4	UH-5	UH-6	UH-7	UH-8	UH-9
HEATER TYPE	FAN FORCED	FAN FORCED	FAN FORCED	FAN FORCED	FAN FORCED	FAN FORCED	FAN FORCED	FAN FORCED	FAN FORCED
MOUNTING	CEILING RECESSED	CEILING RECESSED	CEILING RECESSED	WALL SEMI-RECESSED	WALL SEMI-RECESSED	HUNG EXPOSED	HUNG EXPOSED	WALL SEMI-RECESSED	WALL SEMI-RECESSED
MANUFACTURER	QMARK	QMARK	QMARK	QMARK	QMARK	RAYWALL	RAYWALL	QMARK	QMARK
MODEL	EFF4004	EFF4004	EFF4004	AWH4404F	AWH4404F	F1FUH0CA1	F1FUH07CA1	AWH4404F	AWH4404F
ELECTRICAL DATA									
HEATER KW	3								

PLUMBING FIXTURE SCHEDULE

Main table with columns: MARK, CHOICE CONTROL NO., FIXTURE LOCATION, MANUFACTURER/ MODEL, DESCRIPTION, MANUFACTURER/ MODEL, DESCRIPTION, FITTINGS, NOTE, PIPING CONNECTIONS (CW, HW, SAN, VENT).

- NOTES:
1. PROVIDE CHROME PLATED BRASS TAILPIECE AND GRID DRAIN.
2. PROVIDE BRASS STOPS AND FLEXIBLE RISERS.
3. INSULATE EXPOSED TAILPIECE, P-TRAP, AND WATER RISERS. REFER TO SPECIFICATIONS FOR INSULATION METHODS.
4. COORDINATE LOCATION WITH EQUIPMENT, HOUSE-KEEPING PADS, AND STRUCTURE.

PLUMBING PIPE INSULATION SCHEDULE

Table with columns: SERVICE, PIPE SIZE, INSULATION, NOTES. Rows include DOMESTIC COLD WATER, DOMESTIC HOT WATER, RECIRCULATING HOT WATER, EXPOSED FIXTURE WASTE TRAPS AND DOMESTIC HOT WATER AT HANDICAPPED ACCESSIBLE SINKS AND LAVATOIRES.

- GENERAL NOTES:
1. FOR ALL PIPING 2-1/2" AND LARGER, PROVIDE CALCIUM SILICATE OR FOAMGLASS INSERTS AT ALL HANGERS AND SUPPORT LOCATIONS.
2. ALL INSULATION SHALL HAVE A MAXIMUM OF 25 FLAME SPREAD/50 SMOKE DEVELOPMENT RATING.
3. ELBOW AND FITTING INSULATION SHALL BE OF SAME THICKNESS AS ADJACENT STRAIGHT PIPE INSULATION.

DOMESTIC WATER HEATER

Table with columns: DESIGNATION, UNIT DATA, ELEC/CONTROL DATA. Rows include MANUFACTURER (INTELLIHOT, RINNAI), MODEL (IQ2001, RUR160N), TYPE (INSTANTANEOUS), WATER FLOW (GPM), INLET TEMP. (°F), TEMPERATURE RISE (°F), OUTLET TEMP. (°F), TOTAL INPUT (CFH), EFFICIENCY, VOLTS/PHASE, PANEL & CIRCUIT, WIRE & CONDUIT, OVERCURRENT DEVICE, DISCONNECT, REFERENCE DRAWING/DETAIL.

- NOTES:
1. PROVIDE CONDENSATE NEUTRALIZATION KIT. PROVIDE CPVC INTAKE AND FLUE PIPING. SIZE, ROUTE, AND SLOPE AS REQUIRED BY MANUFACTURER.
2. INTEGRAL RECIRCULATION PUMP WITH DEDICATED RETURN LINE. PROVIDE CONDENSATE NEUTRALIZATION KIT. PROVIDE

DOMESTIC HOT WATER PUMP SCHEDULE

Table with columns: DESIGNATION, UNIT DATA, ELEC/CONTROL DATA. Rows include MANUFACTURER (BELL & GOSSETT), MODEL NO. (PL-65), PUMP TYPE (INLINE-LOW LEAD), GPM, PUMP HEAD (FT.), MOTOR HORSEPOWER, PANEL & CIRCUIT, WIRE & CONDUIT, VOLTAGE/PHASE, OVERCURRENT DEVICE, DISCONNECT, STARTER, COMBINATION STARTER, CONTROL, REFERENCE DRAWING/DETAIL.

- NOTES:
1. PROVIDE MOTOR RATED TOGGLE SWITCH ADJACENT TO PUMPS FOR DISCONNECT MEANS.
2. PROVIDE INTERMATIC 7-DAY TIMECLOCK. OPERATION TO BE CONTROLLED BY AN AQUASTAT LOCATED AT THE END OF THE CIRCULATION LOOP. REFER TO DETAILS.

WATER SOFTENER SCHEDULE

Table with columns: DESIGNATION, UNIT DATA, ELEC/CONTROL DATA. Rows include MANUFACTURER (CULLIGAN), MODEL NO. (CTM 210-PF DUPLEX), INCOMING WATER HARDNESS (GPG), SYSTEM SIZE (L X W X H) (IN), NORMAL SYSTEM FLOW (GPM), NORMAL P.D. (PSI), MAXIMUM SYSTEM FLOW (GPM), MAXIMUM P.D. (PSI), BACKWASH FLOW (GPM), OPERATING TEMP. RANGE (%MDF), INLET PRESSURE RANGE (PSIG), VOLTS/PHASE, PANEL & CIRCUIT, WIRE & CONDUIT, OVERCURRENT DEVICE, DISCONNECT, REFERENCE DRAWING/DETAIL.

- NOTES:
1. PROVIDE WATER METER TO AUTOMATICALLY ADJUST TO VARYING HARDNESS LEVELS. PROVIDE UNIT WITH BRINE RECLAIM SYSTEM.
2. CULLIGAN TO CONDUCT A GENERAL WATER QUALITY TEST INCLUDING WATER HARDNESS TEST AND SUBMIT TEST RESULTS FOR REVIEW. WATER SOFTENER DESIGN DETAILS MAY NEED TO BE ADJUSTED BEFORE SUBMITTING FOR ENGINEERING REVIEW. CONTACT CHRISTENE WISKUR WITH CULLIGAN. EMAIL: WISKUR@CULLIGANKC.COM. PHONE: (937)822-4111 EXT 115

GAS LOADS

Table with columns: EQUIPMENT, CFH, PRESSURE (IN W.C.), BASIS OF DESIGN. Rows include WH-1, WH-2, WH-3, BOH DRYER #1, BOH DRYER #2, GUEST LAUNDRY DRYER #1, GUEST LAUNDRY DRYER #2, GUEST LAUNDRY DRYER #3, GUEST LAUNDRY DRYER #4, GUEST LAUNDRY DRYER #5, GUEST LAUNDRY DRYER #6, FIREPIT #1, FIREPIT #2, BBQ GRILL #1, BBQ GRILL #2, POOL HEATER ALLOWANCE.

DOMESTIC WATER BOOSTER PUMP SCHEDULE

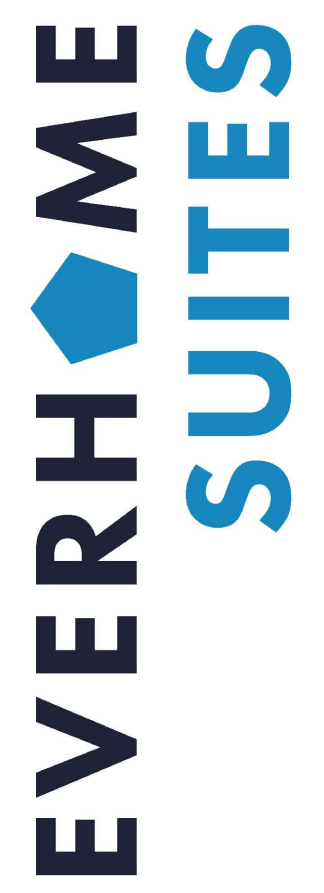
Table with columns: DESIGNATION, UNIT DATA, ELEC/CONTROL DATA. Rows include MANUFACTURER (QUANTUMFLO), MODEL (GENIUS), SERVICE (DOMESTIC COLD WATER), PUMP TYPE (TRIPLEX BOOSTER), SYSTEM SIZE (L X W X H) (IN), GPM, HEADER SIZE (IN.), BOOST PSI, BOOSTER SETPOINT PSI, PUMP RPM, MOTOR HORSEPOWER, FLA, PANEL & CIRCUIT, WIRE & CONDUIT, VOLTAGE/PHASE, OVERCURRENT DEVICE, DISCONNECT, STARTER, COMBINATION STARTER, CONTROL, REFERENCE DRAWING/DETAIL.

- NOTES:
1. PROVIDE FLEX CONNECTORS AND VIBRATION ISOLATION KIT. FIELD INSULATE HEADER. REFER TO SPECIFICATION FOR ADDITIONAL REQUIREMENTS.
2. SYSTEM IS SIZED WITH A CITY PRESSURE OF 61 PSI RESIDUAL. CONTRACTOR TO OBTAIN HYDRANT TEST TO CONFIRM AVAILABLE PRESSURE. RESULTS TO BE SUBMITTED TO ENGINEER FOR REVIEW. BOOSTER PUMP DESIGN MAY NEED TO BE ADJUSTED BEFORE SUBMITTING FOR ENGINEERING REVIEW. CONTACT MANUFACTURER'S REPRESENTATIVE JOEL WOOD WITH ROY F. JOHNSON COMPANY. EMAIL: JOEL.WOOD@ROYFJOHNSONCO.COM. PHONE: (913) 994-9097.

SUMP PUMP SCHEDULE

Table with columns: DESIGNATION, UNIT DATA, ELEC/CONTROL DATA. Rows include MANUFACTURER (WEIL), LOCATION (ELEV. PIT), MODEL NO. (1411), SERVICE (WATER), PUMP TYPE (SIMPLEX), GPM (50), PUMP HEAD (FT.) (20), MOTOR HORSEPOWER (0.5), VOLTAGE/PHASE (120/1), PANEL & CIRCUIT (C-1), WIRE & CONDUIT ((2)#12,#12G, 1/2"C), OVERCURRENT DEVICE (20A-1P), DISCONNECT (RECEPTACLE), STARTER (N/A), COMBINATION STARTER (N/A), CONTROL (NOTE 1), REFERENCE DRAWING/DETAIL (P101).

- NOTES:
1. PROVIDE TETHERED SWITCHES, CONTROL PANEL, ALARM PANEL, OIL SENSOR. PROVIDE BMS CONNECTION TO MONITOR ALARMS. LOCATE ALARM PANEL IN ADJACENT ROOM.



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ISSUES & REVISIONS

Table with columns: NO., DATE, DESCRIPTION. Empty rows for revisions.

PROJECT NAME

Everhome Suites Amarillo, TX

PROJECT ADDRESS
11 Care Cir, Amarillo, TX 79124



PROJECT MANAGER:

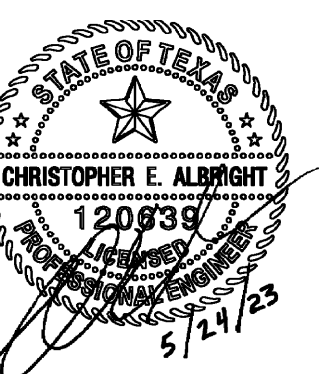
APR CHECKED BY: CEA DRAWN BY: SBI DOCUMENT DATE: 05/24/2023

PROJECT NO:

31000523

PROJECT PHASE

Construction Documents



SHEET TITLE

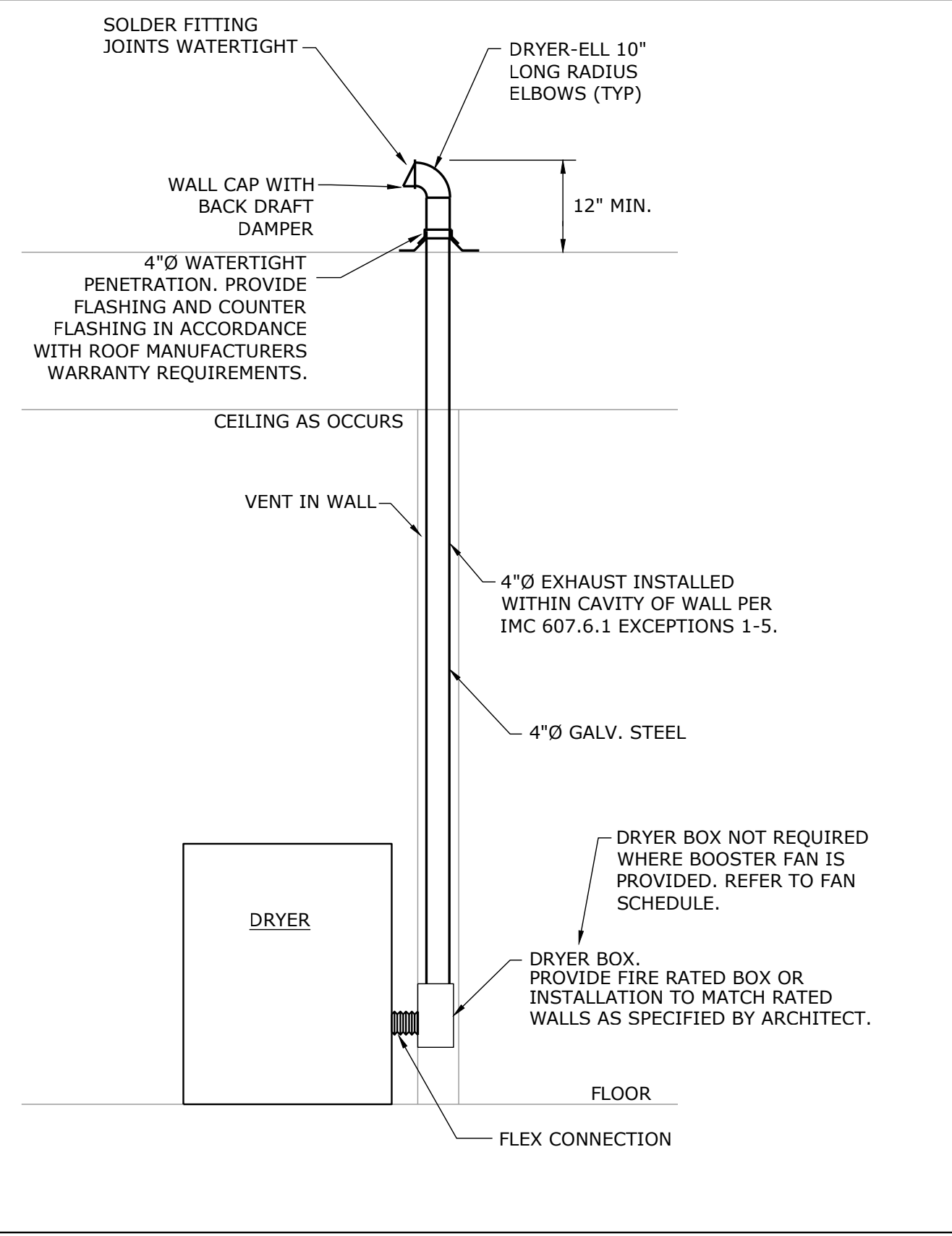
MECHANICAL AND ELECTRICAL SCHEDULES

SHEET NO.

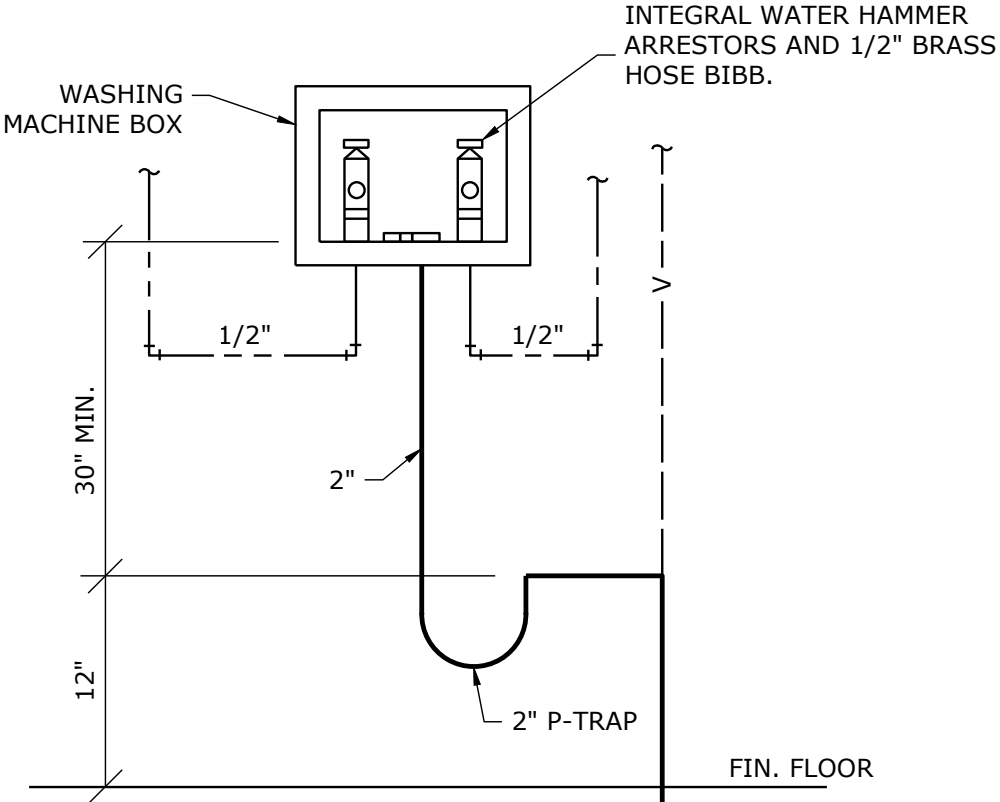
ME301

BRR Original printed on recycled paper

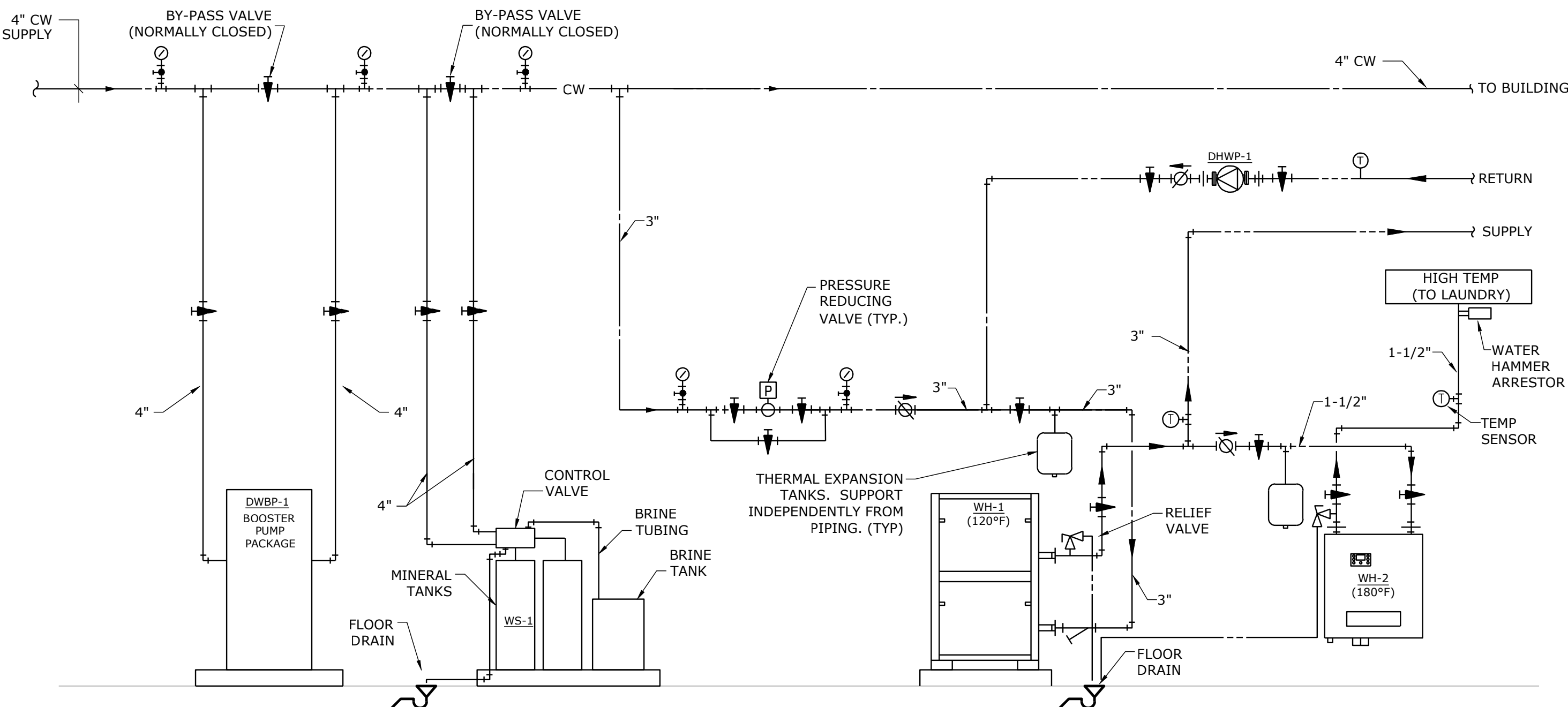
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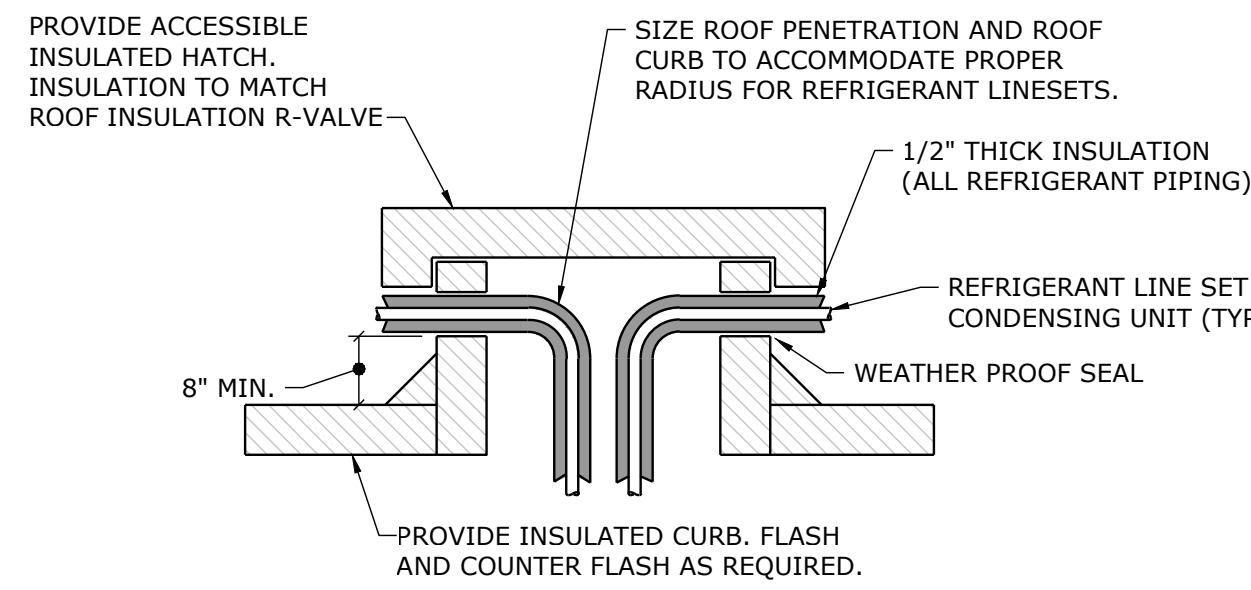
DRYER EXHAUST
NOT TO SCALE



WASHING MASHING CONNECTION DETAIL
NOT TO SCALE



DOMESTIC WATER SYSTEM PIPING SCHEMATIC
NOT TO SCALE

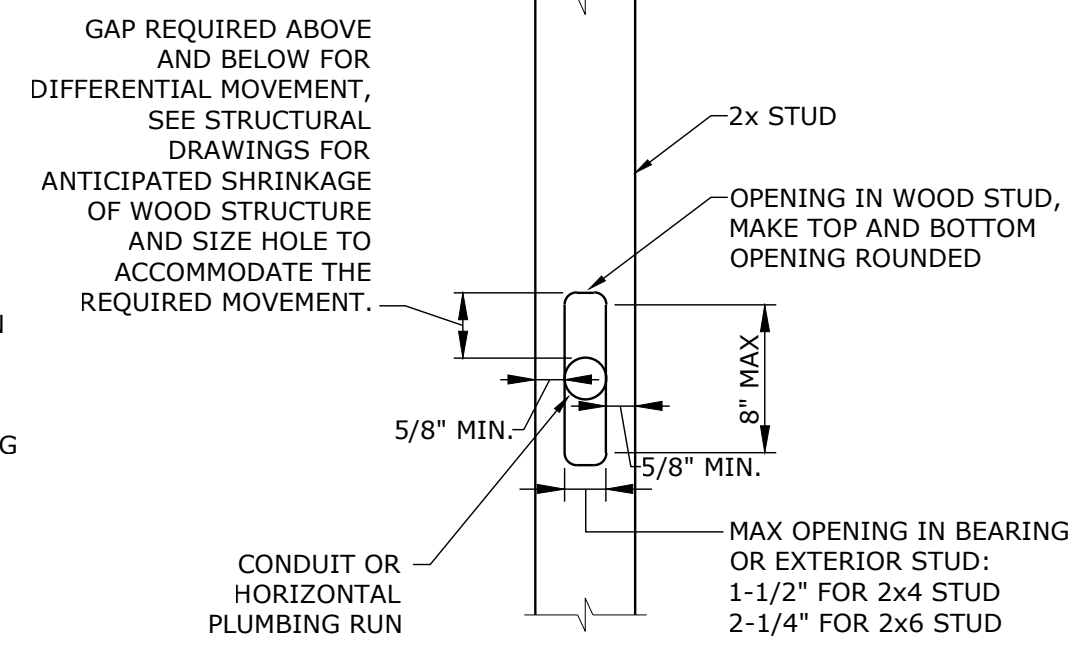


REFRIGERENT PIPING ROOF PENETRATION DETAIL
NOT TO SCALE

ALL EXPANSION DEVICES AND OTHER ALLOWANCES FOR PIPE AND CONDUIT EXPANSION/CONTRACTION AND WOOD SHRINKAGE TO BE A DELEGATED DESIGN. REFER TO STRUCTURAL DRAWINGS FOR INFORMATION ON ANTICIPATED WOOD SHRINKAGE.

THE FOLLOWING IS A LIST OF REQUIREMENTS TO MINIMIZE POTENTIAL ISSUES RELATED TO WOOD SHRINKAGE AND VENEER EXPANSION (VENEER EXPANSION IS SEASONABLE AND VARIABLE BASED ON SUN EXPOSURE).

- PROVIDE OVERSIZED AND VERTICALLY SLOTTED HOLES IN PIPE HORIZONTAL PENETRATION AND NOTCHES. REFER TO DETAIL FOR ADDITIONAL CONSIDERATIONS ON SIZE LIMITATIONS.
- ALL PLUMBING PIPE, FIRE PROTECTION PIPE, AND ELECTRICAL CONDUIT JOINTS AND CONNECTIONS SHALL BE FLEXIBLE AND ALLOW FOR EXPANSION/CONTRACTION TO PREVENT A RIGID ASSEMBLY.
- PROVIDE EXPANSION/COMPRESSION DEVICES IN ALL VERTICAL RISERS AS NEEDED PER DELEGATED DESIGN.
- FOR VENT PENETRATIONS PROVIDE AN EXPANSION/COMPRESSION FITTING OR DOUBLE FLASHING.
- HANGERS AND NECESSARY RIGID CONNECTIONS SHALL BE ADJUSTED PRIOR TO COMPLETION OF CONSTRUCTION OR CLOSING OF WALL/CEILING ASSEMBLY.
- PROVIDE FIRESTOPPING THAT ALLOWS FOR PIPE MOVEMENT. COORDINATE WITH ARCHITECTURAL FIRESTOPPING.
- PRIOR TO CLOSING IN WALLS/CEILINGS, CONTACT ARCHITECT/ENGINEER FOR VISUAL OBSERVATION.



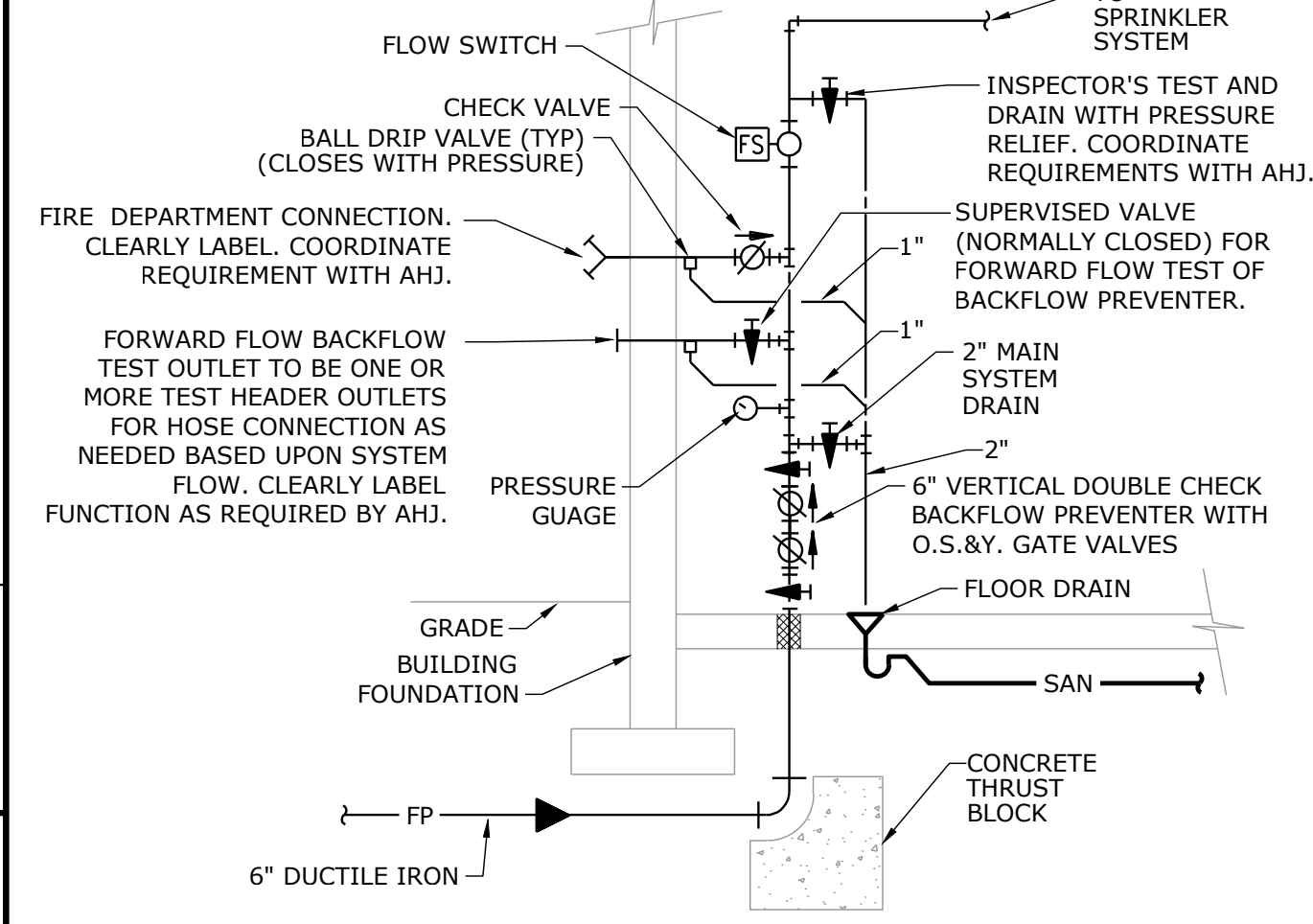
WOOD SHRINKAGE COMPENSATION DETAIL
NOT TO SCALE

PENETRATION FIRESTOPPING SCHEDULE

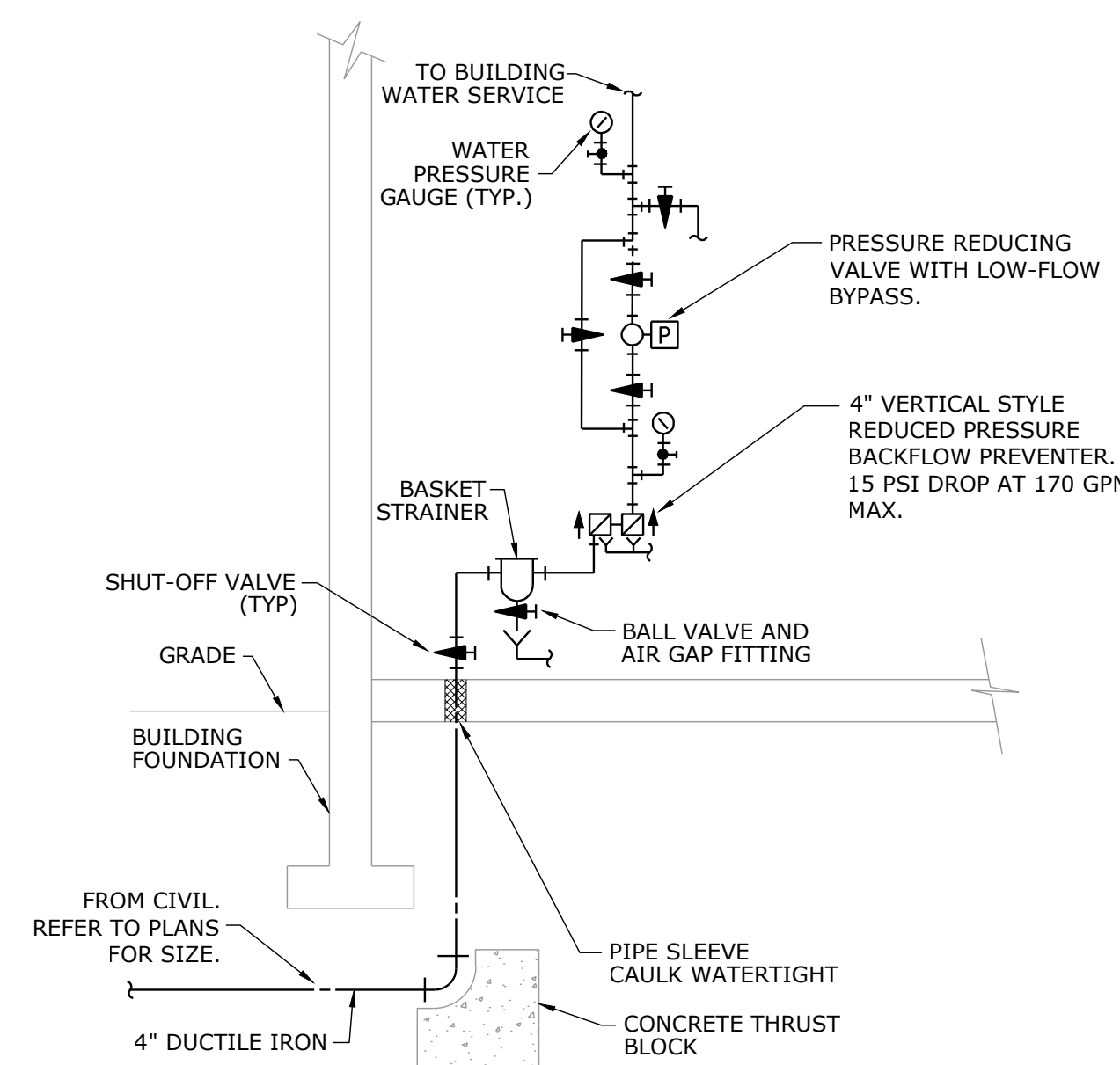
REFER TO ARCHITECTURAL SPECIFICATION SECTION 078413 "PENETRATION FIRESTOPPING" FOR FULL SPECIFICATION REQUIREMENTS. WHERE UL-Classified SYSTEMS ARE INDICATED, THEY REFER TO SYSTEM NUMBERS IN UL'S "FIRE RESISTANCE DIRECTORY" UNDER PRODUCT CATEGORY XHEZ.

- FIRESTOPPING WITH NO PENETRATING ITEMS: UL-CLASSIFIED SYSTEM W-L-0001-0999.
- FIRESTOPPING FOR METALLIC PIPES, CONDUIT, OR TUBING: UL-CLASSIFIED SYSTEM W-L-1001-1999.
- FIRESTOPPING FOR NONMETALLIC PIPE, CONDUIT, OR TUBING: UL-CLASSIFIED SYSTEM W-L-2001-2999.
- FIRESTOPPING FOR ELECTRICAL CABLES: UL-CLASSIFIED SYSTEM W-L-3001-3999.
- FIRESTOPPING FOR CABLE TRAYS WITH ELECTRIC CABLES: UL-CLASSIFIED SYSTEM W-L-4001-4999.
- FIRESTOPPING FOR INSULATED PIPES: UL-CLASSIFIED SYSTEM W-L-5001-5999.
- FIRESTOPPING FOR MISCELLANEOUS ELECTRICAL PENETRANTS: UL-CLASSIFIED SYSTEM W-L-6001-6999.
- FIRESTOPPING FOR MISCELLANEOUS MECHANICAL PENETRANTS: UL-CLASSIFIED SYSTEM W-L-7001-7999.
- FIRESTOPPING FOR GROUPINGS OF PENETRANTS: UL-CLASSIFIED SYSTEM W-L-8001-8999.

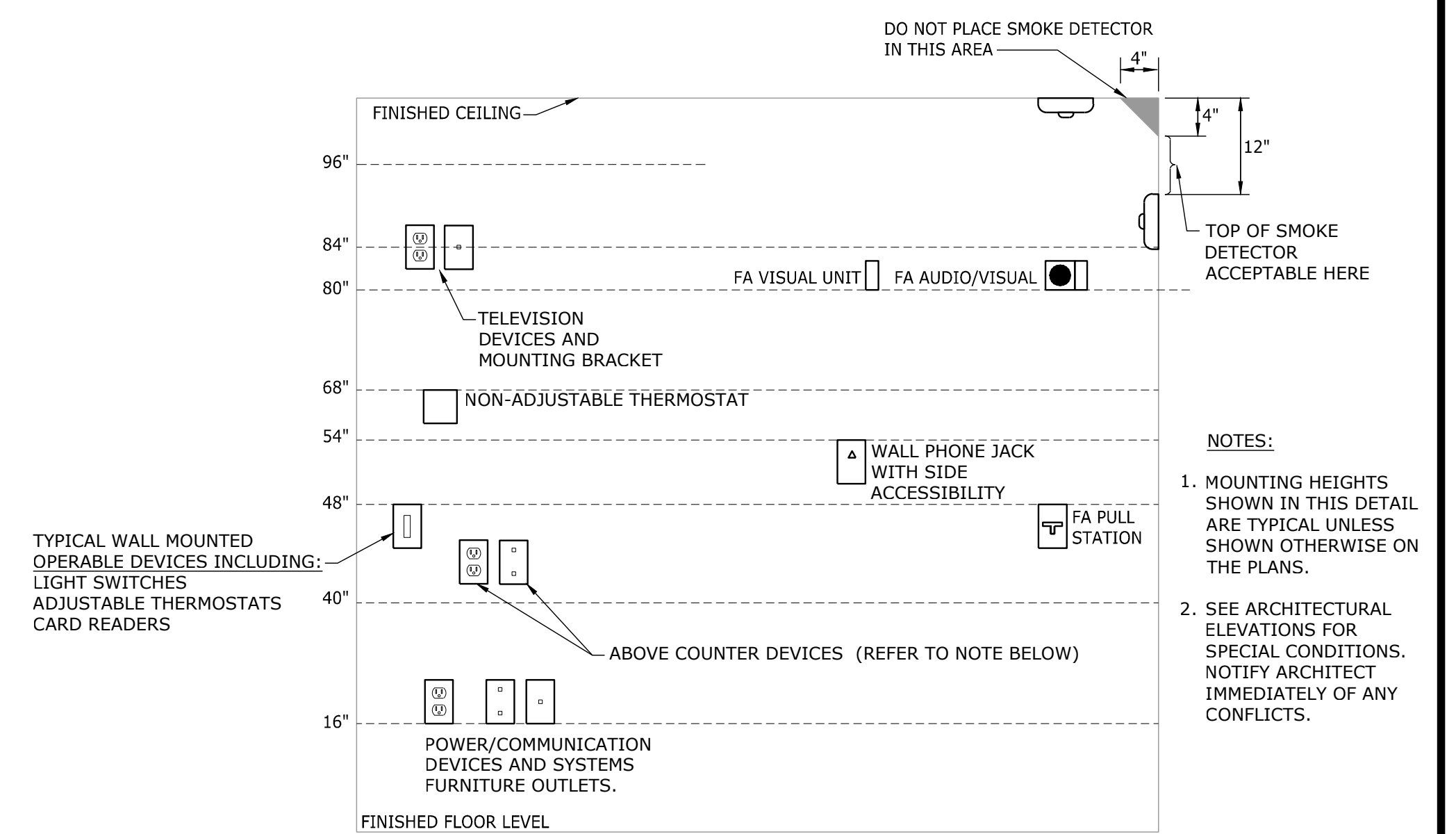
PENETRATION FIRESTOP
NOT TO SCALE



FIRE PROTECTION ENTRANCE DETAIL
NOT TO SCALE



DOMESTIC WATER SERVICE DETAIL
NOT TO SCALE



FIRE ALARM DEVICES

VISUAL UNIT (FIRE ALARM NOTIFICATION DEVICES)
DEVICE 80" ABOVE HIGHEST FLOOR LEVEL OR 6" BELOW CEILING WHICH EVER IS LOWER (ADA 1993). BOTTOM OF DEVICE 80" AFF (NFPA).

AUDIO UNIT (FIRE ALARM NOTIFICATION DEVICES)
TOP OF UNIT AT LEAST 90" AFF OR 6" BELOW CEILING WHICH EVER IS LOWER (NFPA).

AUDIO/VISUAL UNIT (FIRE ALARM NOTIFICATION DEVICES)
LOCATION DETERMINED BY VISUAL UNIT REQUIREMENTS (NFPA).

PULL STATION (FIRE ALARM ACTIVATION DEVICE)
HIGHEST OPERABLE PART SHALL NOT BE MORE THAN 48" ABOVE THE FLOOR (FRONT APPROACH) ADA 1993. OPERABLE PART (T-HANDLE) SHALL BE NOT LESS THAN 42" AFF (NFPA).

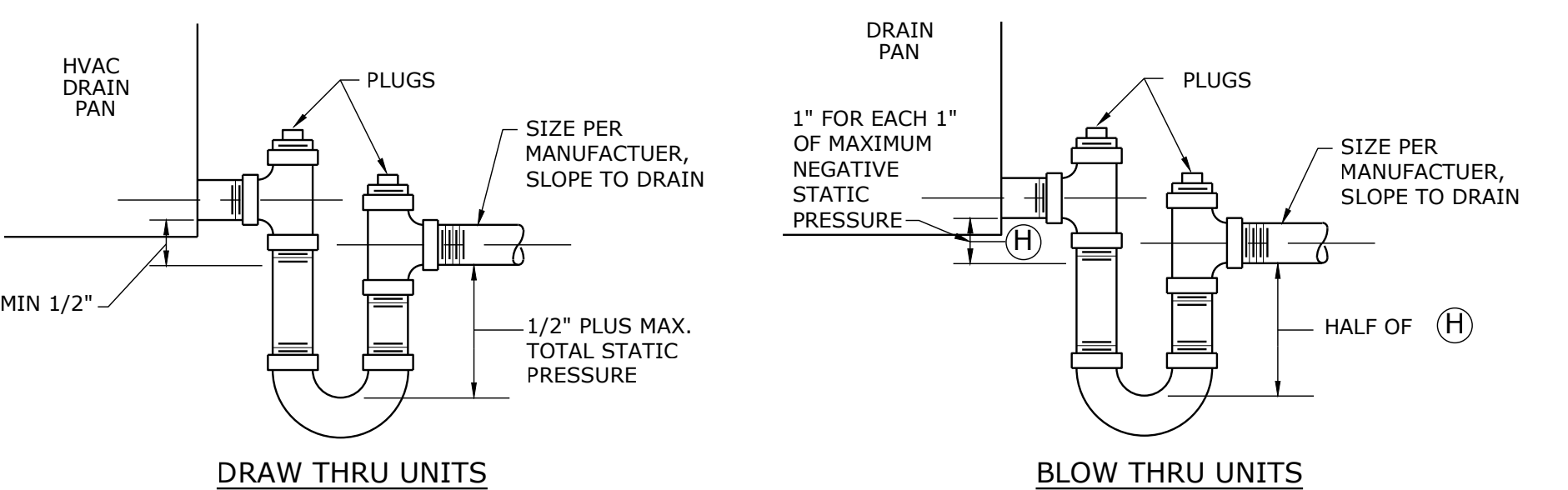
WALL MOUNTED OPERABLE DEVICES

OPERABLE DEVICES SHALL BE LOCATED 48" AFF. TO THE CENTER OF OPERABLE PORTION OF DEVICE. WALL MOUNTED TELEPHONES WITH SIDE ACCESSIBILITY MAY BE MOUNTED UP TO 54" AFF. WALL MOUNTED OPERABLE DEVICES INCLUDE, BUT ARE NOT LIMITED TO THE FOLLOWING:
ADJUSTABLE THERMOSTATS,
LIGHTING SWITCHES/DIMMERS/CONTROLS
INTERCOM-STAFF STATIONS (MASTER STATIONS @ 18" AFF)
PUSH BUTTONS
OTHER CONTROL OR "CALL" DEVICES

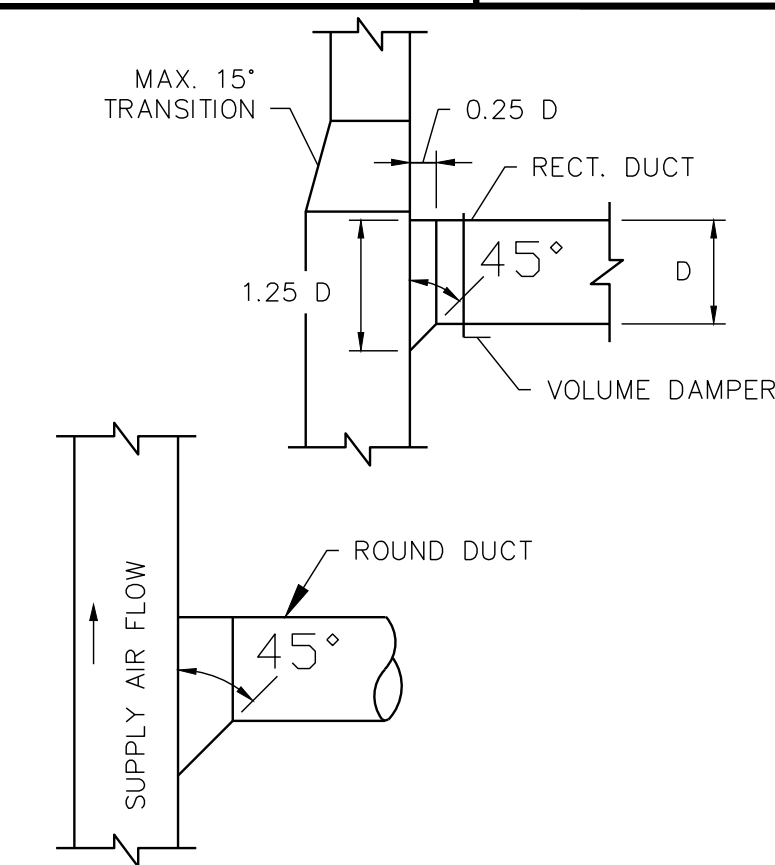
POWER/COMMUNICATION DEVICES:

OUTLETS SHALL BE LOCATED 16" AFF TO THE BOTTOM OF THE BOX. ABOVE COUNTER DEVICES SHALL BE LOCATED AT 48" TO THE CENTER OF THE BOX OR 2" ABOVE THE BACKSPASH OF COUNTER TO THE BOTTOM OF DEVICES WHEN LOCATED ABOVE CASEWORK (PLAN DESIGNATION 4#). VERIFY W/ ARCHITECTURAL DETAILS.

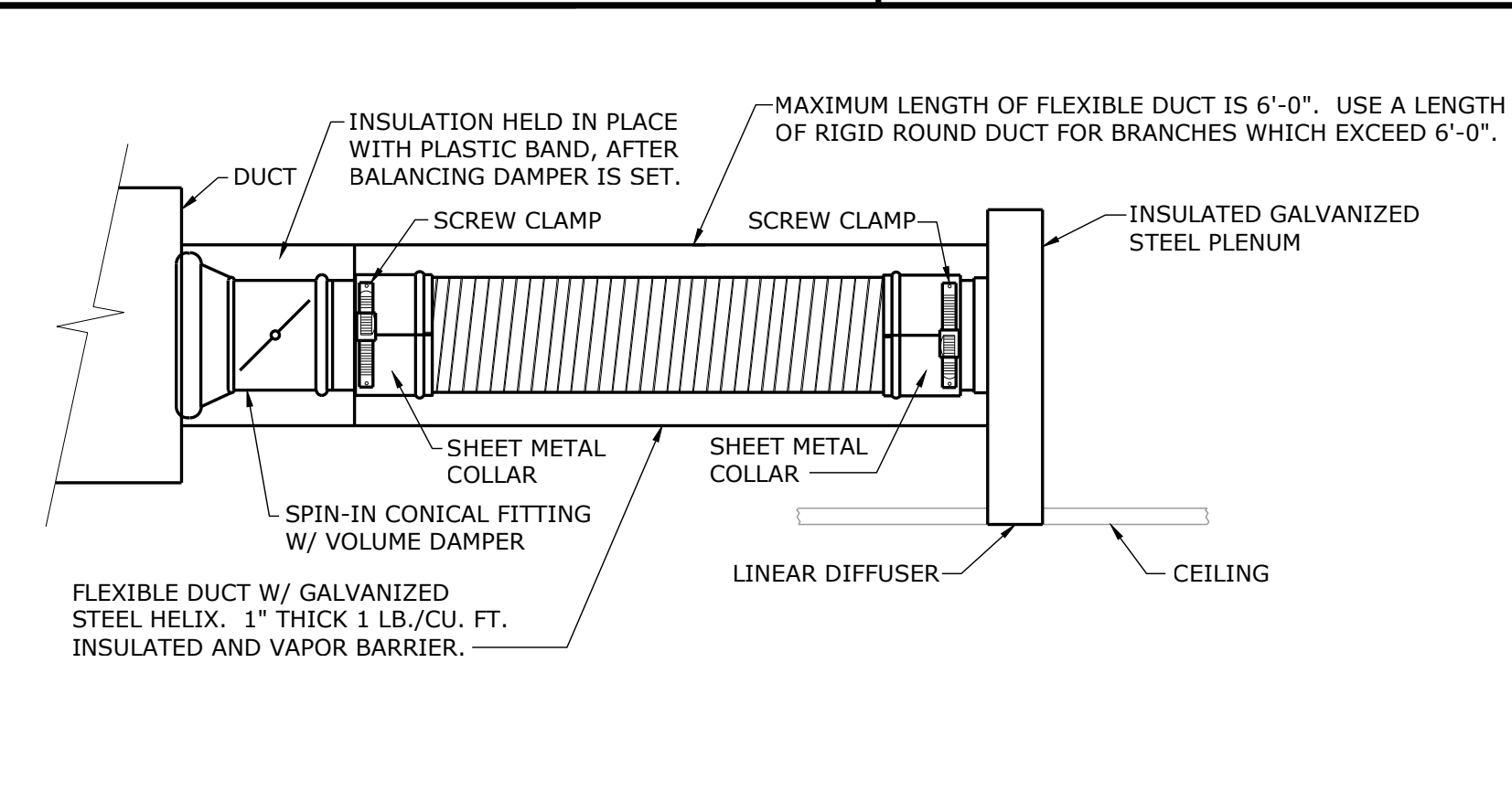
WALL MOUNTED DEVICES: MOUNTING HEIGHTS
NO SCALE



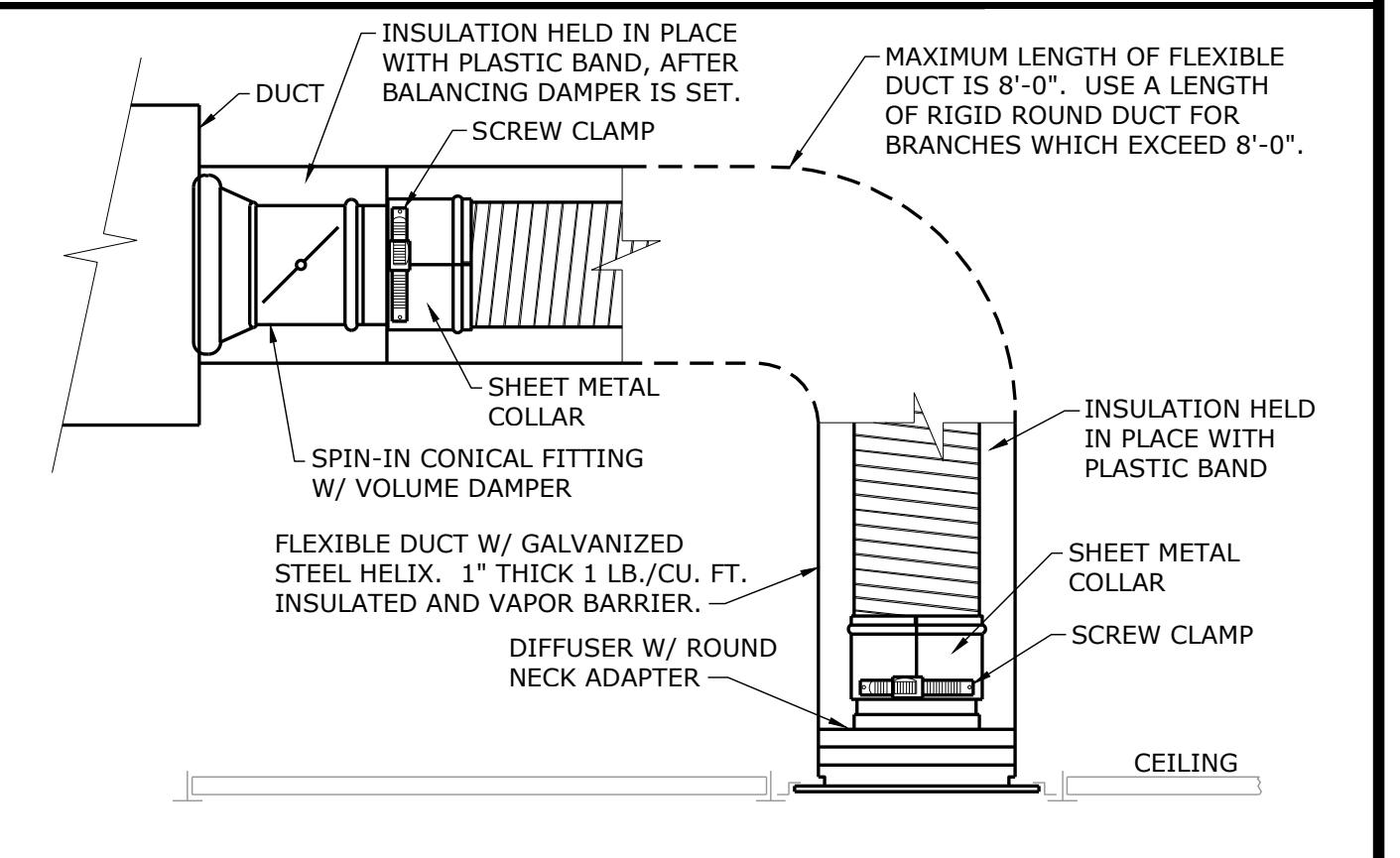
CONDENSATE TRAP DRAIN DETAIL
NOT TO SCALE



DUCT TAKE-OFF DETAIL
NOT TO SCALE

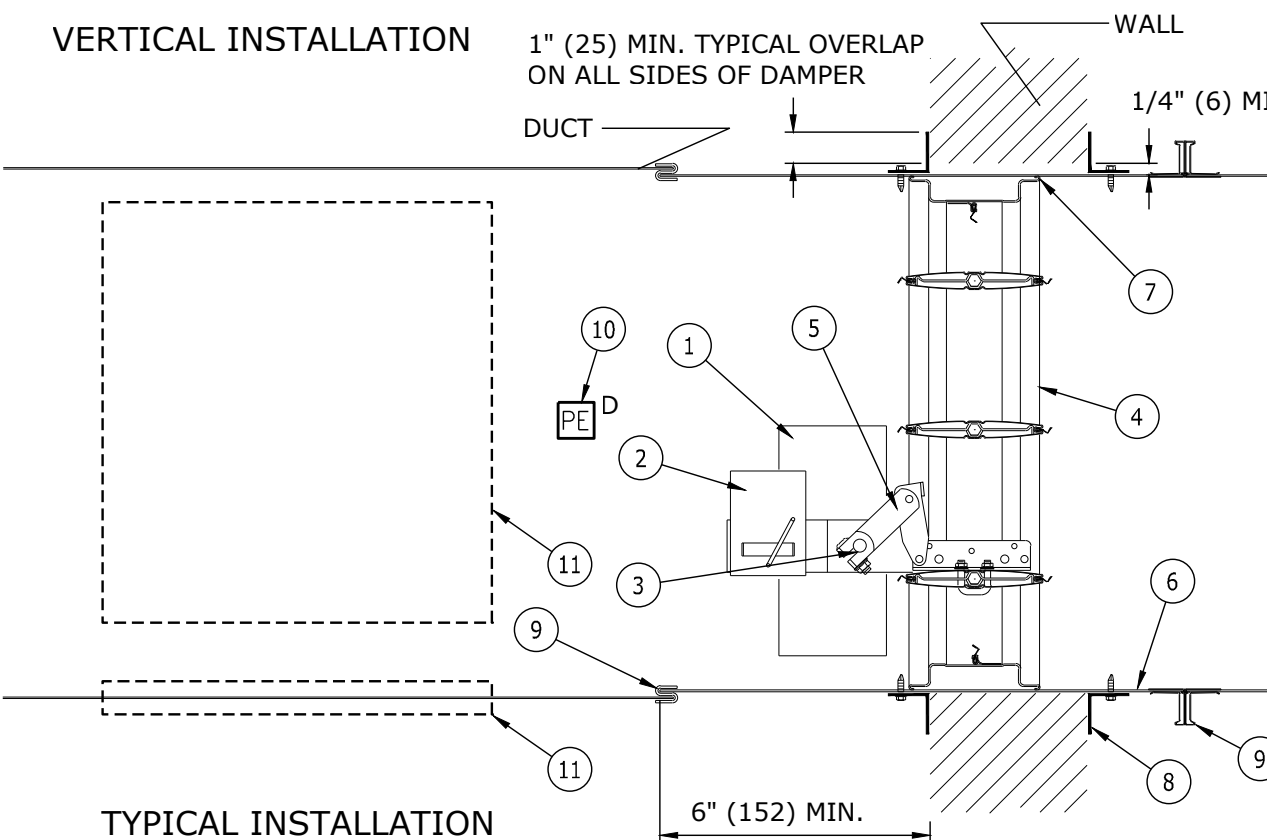


FLEXIBLE BRANCH DUCT DETAIL
NOT TO SCALE

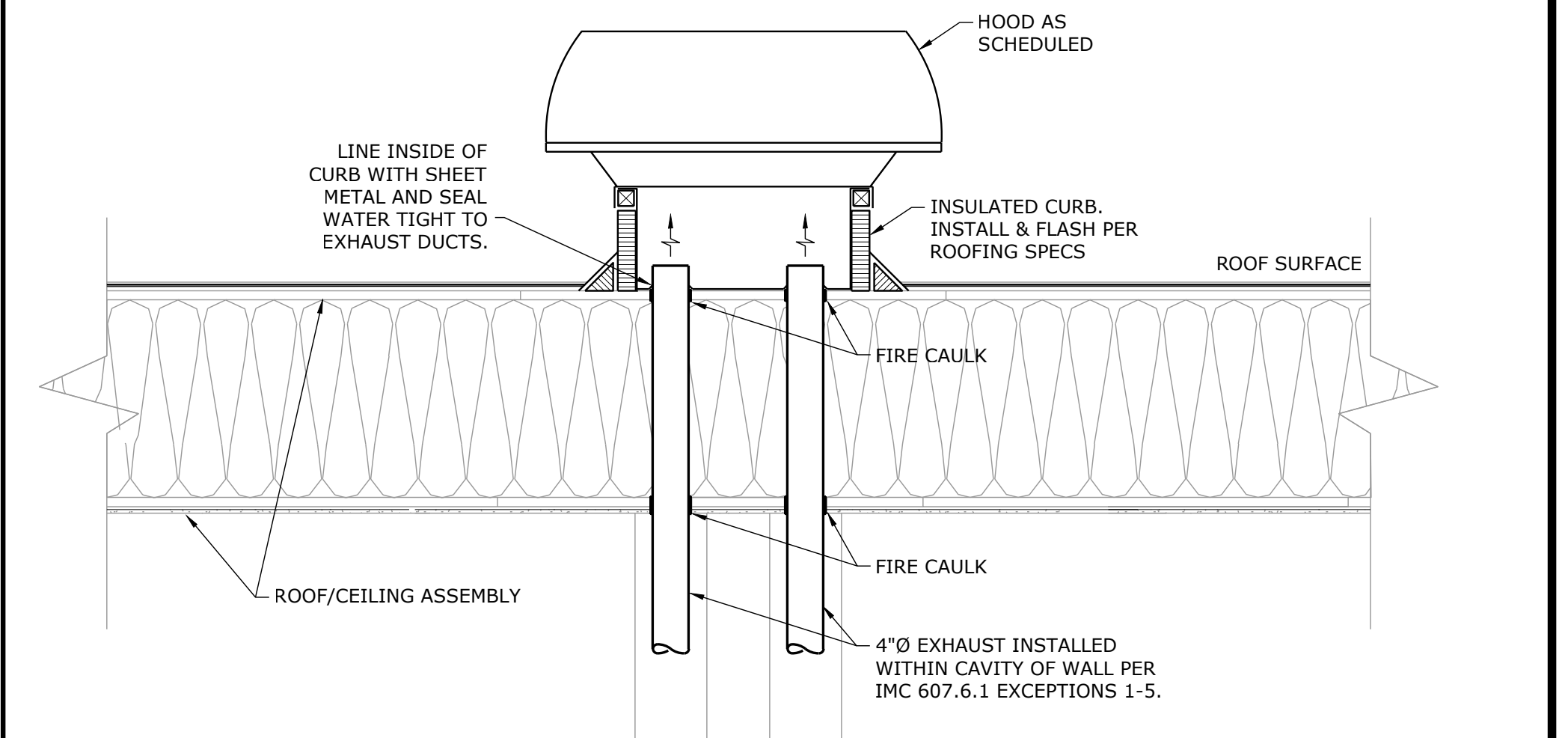


FLEXIBLE BRANCH DUCT DETAIL
NOT TO SCALE

- ITEM. DESCRIPTION
- ACTUATOR (LOCATION MAY VARY). DAMPER MAY BE SUPPLIED WITHOUT ACTUATOR INSTALLED. RUSKIN'S UL LISTED FIRE DAMPER ACTUATORS MAY BE FIELD INSTALLED IF PROPERLY LABELED. SEE ACTUATOR INSTALLATION INSTRUCTIONS FOR FIELD MOUNTING OF DAMPER ACTUATORS.
 - OPTIONAL FIRESTOP OR SP100 (FOR COMBINATION DAMPER).
 - AUXILIARY OPERATING JACK SHAFT.
 - DAMPER.
 - OVER CENTER LOCK.
 - SLEEVE.
 - CAULKING MATERIAL (MAY BE ON EITHER SIDE OF DAMPER FRAME).
 - PFMA OR CONVENTIONAL MOUNTING ANGLES.
 - S-JOINT/DUCT MATE, SLEEVE TO DUCT
 - DUCT SMOKE DETECTOR MOUNTED WITHIN NFPA REQUIRED DISTANCE.
 - PROVIDE ACCESS PANEL ON SIDE OR BOTTOM OF DUCT. PER SPECIFICATIONS.



SMOKE AND COMBINATION FIRE/SMOKE DAMPER DETAIL
NOT TO SCALE



EXHAUST DUCT TERMINATION AT ROOF
NOT TO SCALE

ISSUES & REVISIONS

NO.	DATE	DESCRIPTION

PROJECT NAME

Everhome Suites Amarillo, TX

PROJECT ADDRESS

11 Care Cir, Amarillo, TX 79124

PROJECT MANAGER:

APR

CHECKED BY:

CEA

DRAWN BY:

SBI

DOCUMENT DATE:

05/24/2023

PROTOCOL:

V2.3 (MARCH 2023)

REVISIONS THROUGH:

3

PROJECT NO:

31000523

PROJECT PHASE

Construction Documents



SHEET TITLE

SHEET NO:

ME400

PROJECT NAME: location \ NAME: LAST CORRECTION \ DATE: TIME: PLOTTER BY: DATE: TIME: BOOTY CHARLES

