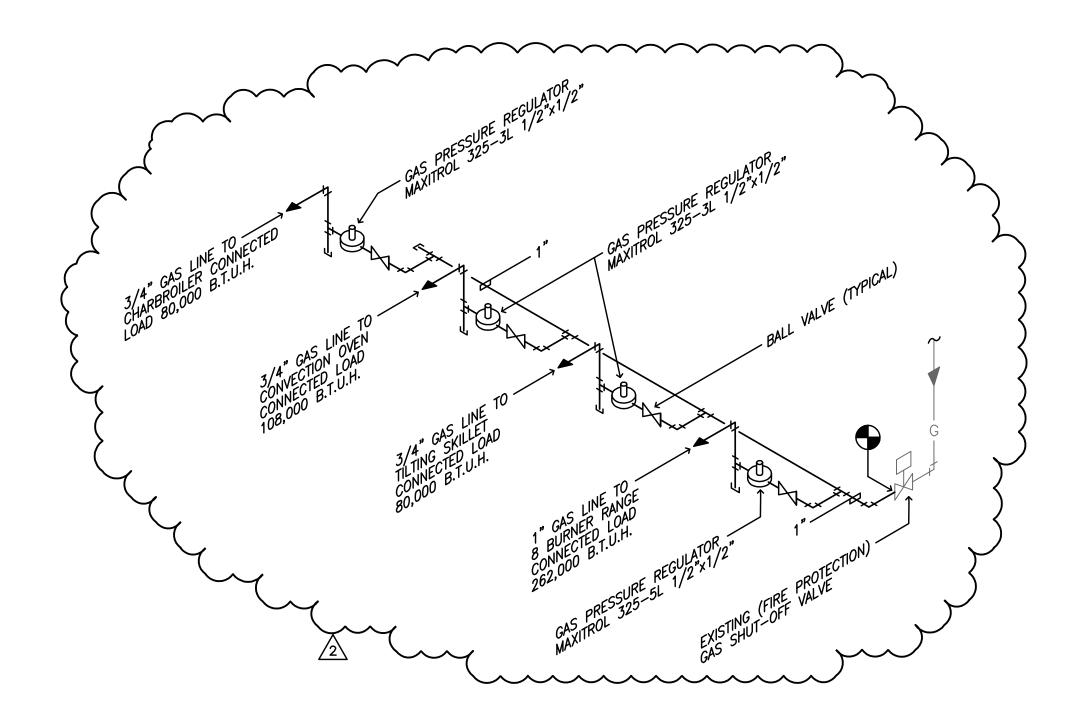
#### PLUMBING/ KITCHEN GENERAL NOTES

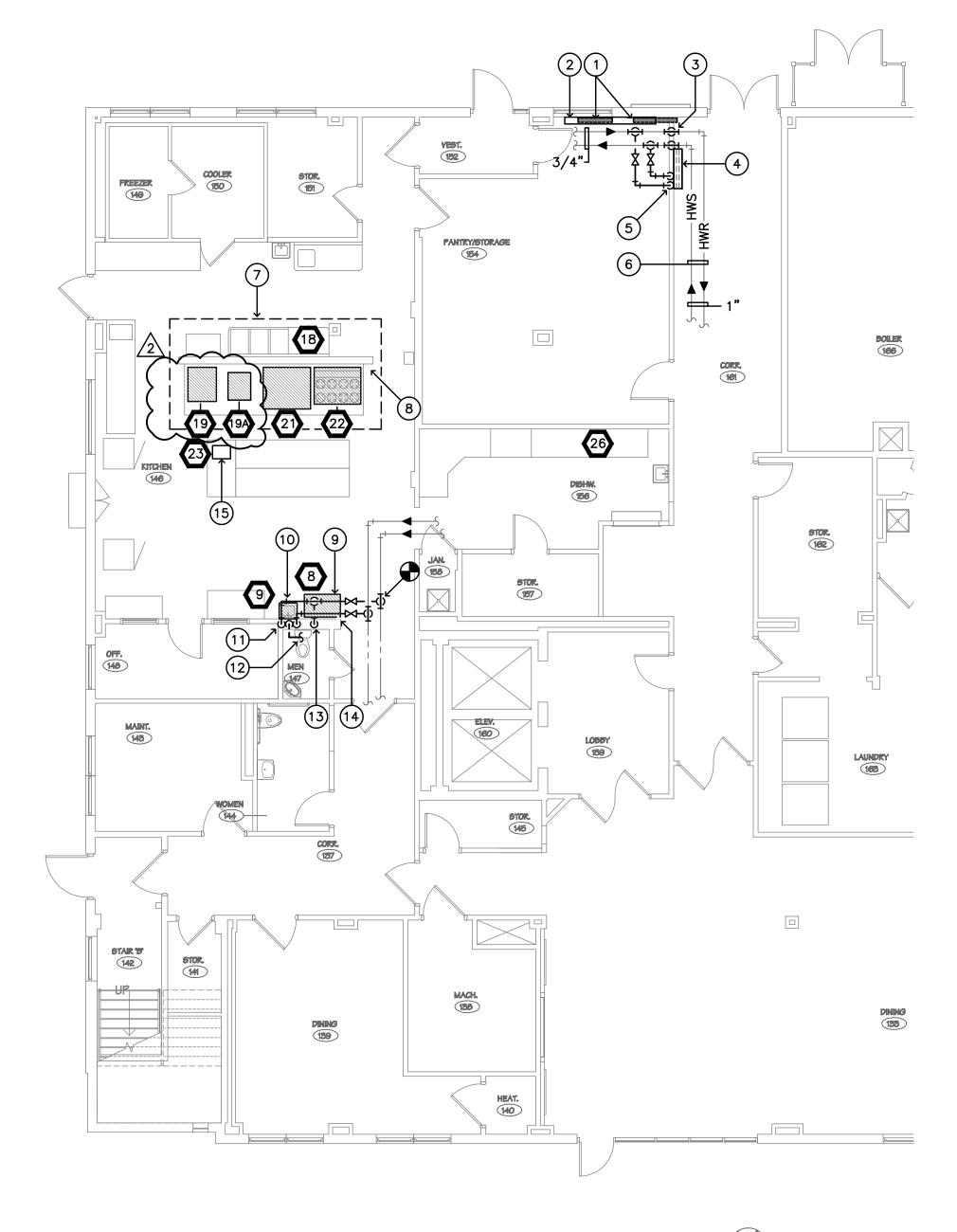
- PLUMBING CONTRACTOR SHALL OBTAIN CERTIFIED PRINTS OF ROUGHING DRAWINGS OF EQUIPMENT BEFORE STARTING WORK. IF ANY DISCREPANCIES EXIST BETWEEN THE PLUMBING DRAWINGS AND KITCHEN EQUIPMENT DRAWINGS, THE PLUMBING CONTRACTOR SHALL NOTIFY THE ENGINEER IMMEDIATELY.
- 2. EXACT LOCATION OF ALL HOT, COLD, WASTE AND GAS PIPING SHALL BE DETERMINED FROM FINAL EQUIPMENT ROUGHING DRAWINGS AND SPECIFICATIONS.
- 3. KITCHEN EQUIPMENT AS LISTED IN SCHEDULE SHALL BE FURNISHED AND SET BY GENERAL CONTRACTOR EXCEPT, PLUMBING CONTRACTOR SHALL INSTALL AND PIPE HAND SINK.
- A. FAUCETS, SINK STRAINERS AND TAILPIECES SHALL BE PROVIDED BY GENERAL CONTRACTOR.
- B. PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL TRAPS, BACKFLOW PREVENTERS, SHOCK ABSORBERS, GAS COCKS, GAS REGULATORS AND STOP VALVES AND INSTALL FAUCETS AND TAILPIECES AND CONNECT TO PLUMBING
- C. PLUMBING CONTRACTOR SHALL MAKE ALL INTERCONNECTIONS BETWEEN KITCHEN EQUIPMENT AND BETWEEN COMPONENTS OF KITCHEN EQUIPMENT.
- D. PLUMBING CONTRACTOR SHALL PROVIDE AND INSTALL STOP VALVES AT EVERY FIXTURE.
- E. 'P' TRAPS ARE REQUIRED ON ALL SINKS. TRAPS ARE NOT REQUIRED ON INDIRECT
- F. PLUMBING CONTRACTOR SHALL FORM A GAS SERVICE LINE LOOP WHEN SEVERAL PIECES OF COOKING EQUIPMENT ARE SUPPLIED BY MANIFOLD CONNECTION.
- 4. PLUMBER SHALL USE COPPER PIPING FOR HAND SINK WASTE PIPING. PVC WILL NOT BE ALLOWED.
- 5. PLUMBER SHALL RUN ALL INDIRECT WASTE LINES FROM EQUIPMENT TO FLOOR DRAINS SIZES AND EQUIPMENT SHALL BE DETERMINED FROM EQUIPMENT SCHEDULE. EXACT LOCATION SHALL BE DETERMINED FROM FINAL KITCHEN EQUIPMENT ROUGHING DRAWINGS. INDIRECT WASTE LINES SHALL BE TYPE 'L' COPPER TUBING. INDIRECT WASTE LINES SHALL DISCHARGE OVER FLOOR DRAIN THROUGH A 90 DEGREE ELBOW WITH AIR GAP BETWEEN OUTLET OF ELBOW AND TOP OF FLOOR DRAIN AS REQUIRED BY CODE. CUT INDIRECT WASTE PIPES AT 45 DEGREE ANGLE TO MINIMIZE SPLASH.



# NEW GAS PIPING BELOW KITCHEN HOOD N.T.S.

NOTE: GAS PRESSURE REGULATORS SHALL BE SET FOR 2 P.S.I. INLET PRESSURE AND 10" W.C. OUTLET PRESSURE. REGULATORS SHALL BE COMPLETE WITH VENT LIMITING DEVICE.

				EQ	UIPMENT	SCHEDULE			
ITEM	DESCRIPTION	QUANTITY	HOT WATER	COLD WATER	WASTE	I.D. WASTE	GAS	B.T.U.'S	REMARKS
<b>8</b>	ICE MACHINE	1		1/2" WITH ARTIC PURE FILTER		(2) 3/4"			3/4" I.D. CONDENSATE DRAIN AND 3/4" BIN DRAIN. OPEN—END OVER FLOOR DRAIN
9	HAND SINK	1	1/2"	1/2"	1-1/2"		^		WITH FAUCET AND DRAIN 115°F. HOT WATER
18	GREASE INTERCEPTOR	1			2"		/2		PLUMBING CONTRACTOR ROUGH AND CONNECT ONLY
19	CONVECTION OVEN	1					3/4" (	108,000	NATURAL GAS WITH INDIVIDUAL SHUT-OFF VALVE.
19A	CHARBROILER	1					3/4"	80,000	NATURAL GAS WITH INDIVIDUAL SHUT-OFF VALVE.
21	TILTING SKILLET	1					3/4"	80,000	NATURAL GAS WITH INDIVIDUAL SHUT-OFF VALVE.
22	8-BURNER RANGE	1				\	1"	262,000	NATURAL GAS WITH INDIVIDUAL SHUT-OFF VALVE.
23	EXISTING S.S. WORK TABLE WITH SINK	1	1/2"	1/2"	1-1/2"				DISCONNECT AND RECONNECT IN NEW LOCATION
26	GREASE INTERCEPTOR	1			2"				PLUMBING CONTRACTOR ROUGH AND CONNECT ONLY



# PARTIAL FIRST FLOOR PLAN — MECHANICAL SCALE: 1/8" = 1'-0"

# NOR

# <u>LEGEND</u>

- 1) EXISTING RADIATION (2 SECTIONS) TO BE REMOVED AND DISCARDED.
- 2) PROVIDE NEW 8'-0" SECTION OF HEAVY DUTY, HIGH OUTPUT BASEBOARD RADIATION EQUAL TO "SLANT FIN" MULTI-PAK 80 MODEL B3-A2 BASEBOARD WITH H-3 ELEMENT IN 80 ENCLOSURE. RADIATION SHALL BE COMPLETE WITH SUPPORT ACCESSORIES AND END CAPS.
- (3) NEW 3/4" HOT WATER SUPPLY AND RETURN PIPING DOWN TO RADIATION.
- 4 NEW "MODINE" HOT WATER CABINET UNIT HEATER FLOOR MOUNTED MODEL-C (SIZE 006) 620 C.F.M. WITH INLET AND OUTLET ARRANGEMENT 08.
- 5 3/4" HOT WATER SUPPLY AND RETURN PIPING DOWN TO NEW CABINET UNIT HEATER.
- 6 NEW 1" HOT WATER SUPPLY AND RETURN PIPING ABOVE CEILING. ORIGINAL 3/4" PIPE SIZE AS SHOWN ON CONTRACT DOCUMENTS TO BE INCREASED TO 1".
- (7) FOR NEW GAS PIPING ARRANGEMENT FOR EQUIPMENT BELOW THE HOOD SEE GAS PIPING DETAIL.
- (8) EXISTING 2" GAS FEED TO KITCHEN EQUIPMENT.
- 9) NEW ICE MACHINE, PIPE 1/2" COLD WATER THROUGH A BALL VALVE SHUT-OFF, BACKFLOW PREVENTER AND ARCTIC PURE WATER FILTER (SEE EQUIPMENT CUTS).
- (10) NEW HAND SINK, 1/2" HOT AND COLD WATER, 1-1/2" WASTE AND VENT.
- 1/2" HOT AND COLD WATER DOWN TO HAND SINK, 1-1/2" VENT UP. CONNECT WASTE PIPING TO EXISTING BELOW FLOOR.
- (12) CONNECT NEW 1-1/2" VENT TO EXISTING ABOVE CEILING.
- (13) 1/2" COLD WATER DOWN TO NEW ICE MACHINE. ALSO SEE CIRCLE NOTE 9 ABOVE.
- REMOVE EXISTING EXPOSED COLD WATER FEED TO EXISTING ICE MACHINE AND CAP BACK AT ACTIVE MAIN.
- (15) EXISTING RELOCATED COUNTER AND SINK UNIT. PLUMBER TO DISCONNECT AND RECONNECT IN FULL OPERATING ORDER IN NEW LOCATION.





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/181 \_	DATE	DESCRIPTION	
7	08.21.19	REVISED FOR BULLETIN 02	
7	03.30.20	REVISED FOR KITCHEN EQUIPMENT	Γ
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JOEL SMILOW CARE CENTER OF THE BRIDGEPORT RESCUE MISSIC INTERIOR RENOVATIONS

PARTIAL FIRST
FLOOR PLAN
- MECHANICAL
EMS JOB 5033

SCALE
1/8'=1'-0'
DRAWN BY:
BJC
GDD

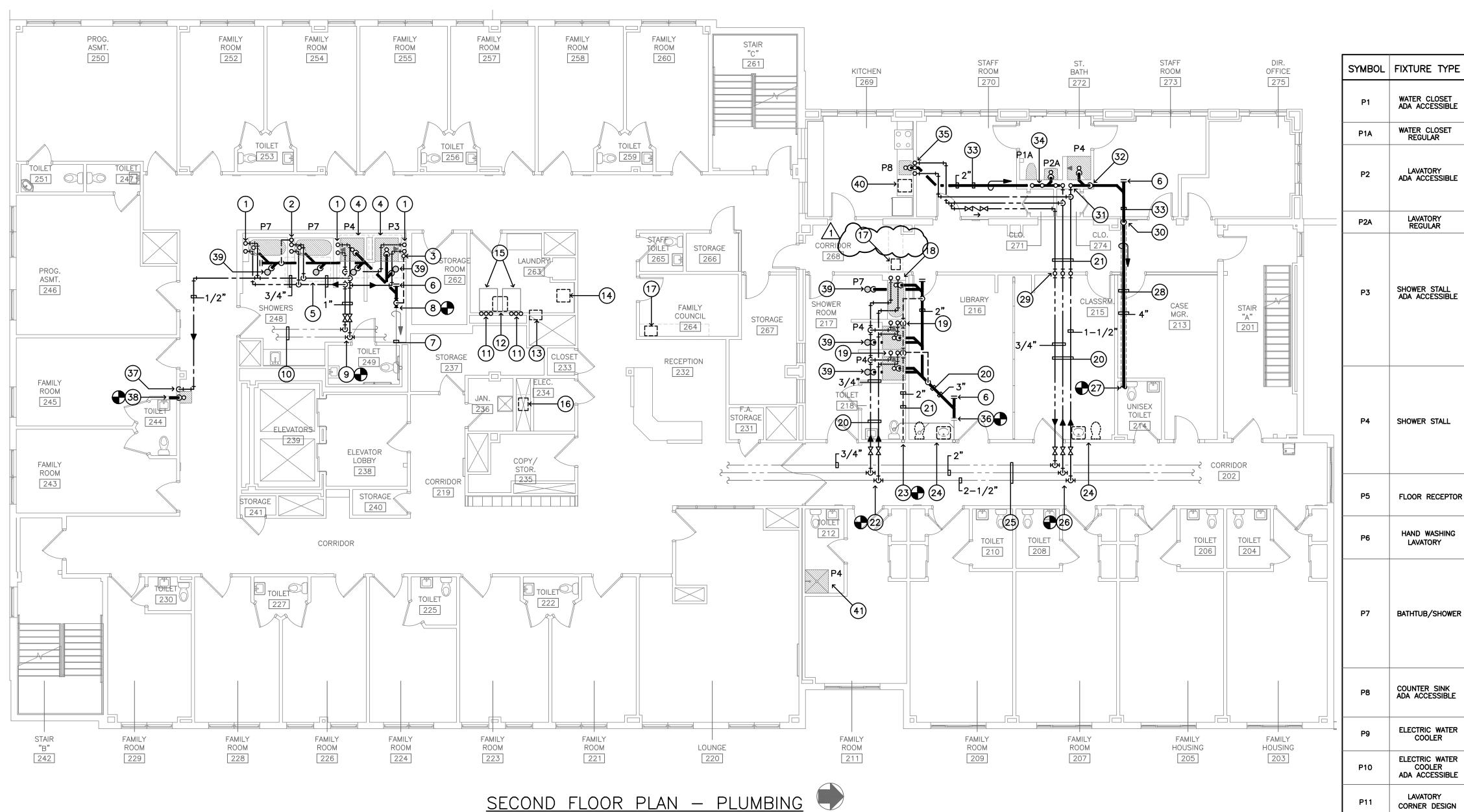
DRAWING NO.

REVIEWED B.
GDD

04.16.2020 - CM BID

07 MAY 2019

GDD JOB NUMBER:



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

# **LEGEND**

- (1) 1/2" HOT AND COLD WATER DOWN AND 1/2" HOT AND COLD WATER UP.
- (2) 2" VENT UP IN CHASE TO THIRD FLOOR AND 1/2" HOT AND COLD WATER UP AND DOWN.
- 3 2" VENT UP IN CHASE.
- 4 EXISTING (ROLL-IN) SHOWER STALLS TO BE REMOVED, REMOVE SHOWER HEAD, SHOWER VALVE, FLOOR DRAINS AND ACCESSORIES. REMOVE EXISTING HOT, COLD AND WASTE PIPING. NEW SHOWER STALLS AND BATHTUBS TO BE SUPPLIED FROM NEW MAINS.
- 5) REMOVE EXISTING HYDROTHERAPY BATHTUB, LIFT AND ALL ACCESSORIES. REMOVE EXISTING HOT, COLD AND WASTE PIPING.
- 6 CLEANOUT.
- (7) APPROXIMATE LOCATION OF EXISTING 3" WASTE LINE ABOVE FIRST FLOOR CEILING.
- (8) CONNECT NEW 3" WASTE LINE TO EXISTING 3" WASTE LINE ABOVE FIRST FLOOR CEILING.
- (9) CONNECT NEW 1" HOT AND COLD WATER PIPING TO EXISTING ABOVE SECOND FLOOR CEILING.
- (10) APPROXIMATE LOCATION OF EXISTING 1" HOT AND COLD WATER ABOVE CEILING.
- 11) 1/2" HOT AND COLD WATER AND 2" X 24" STANDPIPE WITH TRAP BEHIND CLOTHES WASHER AND 1-1/2" VENT. PROVIDE AND INSTALL (ACCESSIBLE) BEHIND WASHER A RECESSED WASHING MACHINE VALVE AND DRAIN FIXTURE EQUAL TO SYMMONS "LAUNDRY-MATE" MODEL #602. CONNECT TO EXISTING SERVICES FROM REMOVED FLUSHING RIM SERVICE SINK, MODIFY AS
- REMOVE EXISTING FLUSHING RIM SERVICE SINK, FAUCET, FLUSH VALVE AND ACCESSORIES. MODIFY EXISTING SERVICES FOR CONNECTION TO NEW CLOTHES WASHERS.
- 13 REMOVE EXISTING BEDPAN WASHER/SANITIZER AND ASSOCIATED PIPING.
- (14) REMOVE EXISTING HOT WATER BOOSTER (BELOW COUNTER) AND ASSOCIATED PIPING.
- 15) NEW STACKED WASHERS/DRYERSS OWNERS EQUIPMENT, PLUMBING CONTRACTOR SHALL ROUGH FOR AND CONNECT ONLY.
- (16) EXISTING COUNTER SINK PREVIOUSLY REMOVED.
- 17) REMOVE EXISTING COUNTER SINK, FAUCET, ACCESSORIES AND ALL ASSOCIATED HOT, COLD, WASTE AND VENT PIPING.
- (18) 1/2" HOT AND COLD WATER UP TO BATHTUB/SHOWERAND 2" WASTE.
- (19) 2" VENT AND 1-1/2" HOT AND COLD WATER UP IN CHASE.
- (20) ABOVE FIRST FLOOR SUSPENDED CEILING.
- (21) RUN ABOVE SECOND FLOOR SUSPENDED CEILING.

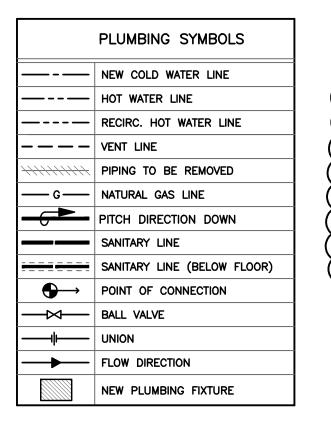
- (22) CONNECT NEW 3/4" HOT AND COLD WATER TO EXISTING 2" HOT AND 2-1/2" COLD WATER MAINS ABOVE FIRST FLOOR SUSPENDED CEILING, VALVE NEW CONNECTIONS.
- (23) CONNECT NEW 2" VENT TO EXISTING VENT STACK.
- (24) REMOVE EXISTING WATER CLOSET AND WALL HUNG LAVATORY, REMOVE ALL ASSOCIATED HOT, COLD AND SOIL/WASTE PIPING. CAP EXISTING BRANCH SERVICES BACK AT ACTIVE MAINS.
- 25) APPROXIMATE LOCATION OF EXISTING 2" HOT, 2-1/2" COLD AND 3/4" RECIRC. HOT WATER PIPING ABOVE FIRST FLOOR SUSPENDED CEILING.
- (26) CONNECT NEW 3/4" HOT, 1-1/2" COLD AND 3/4" RECIRC. HOT WATER TO EXISTING MAINS ABOVE FIRST FLOOR SUSPENDED CEILING, VALVE NEW CONNECTIONS.
- (27) CONNECT NEW 4" SANITARY TO EXISTING AT FIRST FLOOR MEN'S TOILET ROOM #109.
- (28) NEW 4" SANITARY PIPING BELOW FIRST FLOOR CONCRETE SLAB. SHOWN ON THIS SHEET FOR CLARITY.
- (29) 3/4" HOT, 1-1/2" COLD AND 3/4" RECIRC. HOT WATER UP TO ABOVE SECOND FLOOR CEILING IN NEW PARTITION.
- 30) 4" SANITARY DOWN IN CORNER TO BELOW FIRST FLOOR CONCRETE SLAB. VERTICAL PIPING TO BE BOXED-IN.
- (31) 1/2" HOT AND 1-1/2" COLD WATER UP AND DOWN.
- (32) 4" SANITARY DOWN AND 2" VENT UP.
- (33) RUN ABOVE FIRST FLOOR CEILING AND ABOVE BUILDING INSULATION OF EXTERIOR OVERHANG.
- (34) 4" SANITARY STACK AND 2" VENT STACK.
- (35) 1/2" HOT AND COLD WATER UP AND DOWN, 2" WASTE STACK AND 1-1/2" VENT UP.
- (36) CONNECT NEW 3" WASTE PIPING TO EXISTING 3" PIPING ABOVE FIRST FLOOR SUSPENDED CEILING.
- (37) 1/2" COLD WATER DOWN TO NEW WATER COOLER.
- (38) CONNECT NEW 1-1/2" WASTE AND VENT PIPING TO EXISTING LAVATORY WASTE PIPING IN PARTITION, MODIFY PIPING AS REQUIRED.
- 39 2" FLOOR DRAIN (IN DRYING AREA) TYPICAL FOR ALL NEW BATHTUBS AND/OR SHOWERS. ALL FLOOR DRAIN WILL BE PROTECTED BY "SURE SEAL" TRAP SEALER.
- 40 UNDER COUNTER DISHWASHER, 1/2" HOT WATER CONNECT TO SINK RISER AND FLEX WASTE TO DISHWASHER TAIL PIECE AT ADJACENT SINK. VALVE HOT WATER TO DISHWASHER INDEPENDENTLY BELOW
- (41) FOR ADDITIONAL INFORMATION ON SHOWER STALL SEE DRAWING M-9.

SYMBOL	FIXTURE TYPE	FIXTURE SPECIFICATIONS	COMMENTS
P1	WATER CLOSET ADA ACCESSIBLE	WATER CLOSET SHALL BE "KOHLER" KINGSTON MODEL #K-4325, ADA WALL HUNG VITREOUS CHINA, WITH ELONGATED BOWL AND WHITE KOHLER STRONGHOLD COMMERCIAL TOILET SEAT #K-4731-C. FLUSH VALVE SHALL BE SLOAN ROYAL MODEL #111-1.28. CARRIER SHALL BE ZURN ADJUSTABLE VERTICAL MODEL #1200 SERIES.	WALL HUNG SET AT PROPER HEIGHT FOR ADA
P1A	WATER CLOSET REGULAR	WATER CLOSET AND ACCESSORIES SHALL BE THE SAME AS NOTED ABOVE EXCEPT MOUNT AT STANDARD FIXT4URE HEIGHT.	MOUNT FIXTURE AT STANDARD HEIGHT
P2	LAVATORY ADA ACCESSIBLE	LAVATORY SHALL BE KOHLER "GREENWICH" VITREOUS CHINA #K-2032 20" X 18" WALL MOUNTED WITH 4" FAUCET CENTERS. FAUCET SHALL BE "SYMMONS" SYMMETREX #S-20-G-FR-VP-W. SUPPLIES SHALL BE #K-7607. TRAP SHALL BE #K-9000. LAVATORY REQUIRES OFF-SET DRAIN NUMBER K-13885. INSULATE TRAP AND SUPPLIES BELOW LAVATORY WITH "HANDI LAV-GUARD" PRE-FORMED INSULATING KIT AS MANUFACTURED BY TRU BRO. INC. SET LAV AT PROPER HEIGHT FOR HANDICAPPED. LAVATORY SHALL BE SUPPORTED ON PROPER BLOCKING IN WALL.	MOUNT FIXTURE AT PROPER HEIGHT FOR ADA
P2A	LAVATORY REGULAR	LAVATORY AND ACCESSORIES SHALL BE THE SAME AS NOTED ABOVE EXCEPT DELETE OFF—SET DRAIN AND PRE—FORMED INSULATING KIT.	MOUNT AT STANDARD FIXTURE HEIGHT
P3	SHOWER STALL ADA ACCESSIBLE	SHOWER STALLS SHALL BE PREFABRICATED MODULES AS MANUFACTURED BY STERLING PLUMBING GROUP, INC. UNIT SHALL BE MADE OF SOLID "VIKRELL" COMPRESSION MOLDED FIBERGLAS REINFORCED RESIN. MODULES SHALL BE MADE UP OF FOUR (4) PIECE SHOWER STALLS. FINISH SHALL BE HIGH GLOSS COLOR SHALL BE SELECTED BY ARCHITECT. SHOWER STALL SHALL BE MODEL #62500115ADA, 39–3/8"x39–3/8"x72" RIGHT OR LEFT HAND AS REQUIRED. SHOWER ASSEMBLY SHALL BE "SYMMONS" TEMPTROL #96-500-B30-L-VX PRESSURE-BALANCING MIXING VALVE WITH INTEGRAL STOPS, SINGLE BLADE HANDLE AND ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN. LEVERTOL 4-458 DIVERTER. SHOWER HEAD WITH ARM AND FLANGE. SHOWER HEAD MUST HAVE 1.5 G.P.M. FLOW RESTRICTOR. WALL/HAND SHOWER WITH FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, WALL CONNECTION AND FLANGE 30" SLIDE BAR FOR HAND SHOWER MOUNTING. PROVIDE FACTORY INSTALLED STAINLESS STEEL GRAB BARS AND FOLDING SEAT. NOTE RIGHT OR LEFT HAND UNIT REQUIREMENTS INDICATED ON DRAWINGS. SHOWER UNIT MUST BE SET IN A MUD BASE AND EVENLY SUPPORTED FOR ITS ENTIRE LENGTH AND WIDTH FOR PROPER INSTALLATION.	STERLING IS A "KOHLER" CO.
P4	SHOWER STALL	SHOWER STALLS SHALL BE PREFABRICATED MODULES AS MANUFACTURED BY STERLING PLUMBING GROUP, INC. UNIT SHALL BE MADE OF SOLID "VIKRELL" COMPRESSION MOLDED FIBERGLAS REINFORCED RESIN. MODULES SHALL BE MADE UP OF FOUR (4) PIECE SHOWER STALLS. FINISH SHALL BE HIGH GLOSS COLOR SHALL BE SELECTED BY ARCHITECT. SHOWER STALL SHALL BE MODEL #6200100, 36"x34"x73.25" RIGHT OR LEFT HAND AS REQUIRED. SHOWER ASSEMBLY SHALL BE "SYMMONS" TEMPTROL #96-1-X1 PRESSURE-BALANCING MIXING VALVE WITH INTEGRAL STOPS, SINGLE BLADE HANDLE AND ADJUSTABLE STOP. SHOWER HEAD WITH ARM AND FLANGE. SHOWER VALVES TO BE MOUNTED AT 48" A.F.F. AS SHOWN IN MANUFACTURE'S INSTRUCTIONS. SHOWER HEADS MUST HAVE 1.5 G.P.M.FLOW RESTRICTOR. SHOWER UNIT MUST BE SET IN A MUD BASE AND EVENLY SUPPORTED FOR ITS ENTIRE LENGTH AND WIDTH FOR PROPER INSTALLATION.	STERLING IS A "KOHLER" CO.
P5	FLOOR RECEPTOR	FLOOR RECEPTOR SHALL BE FIAT MOLDED STONE MOP SERVICE BASIN #MSB 2424, 24" X 10", #830-AA SERVICE FAUCET WITH INTEGRAL VACUUM BREAKER, #889-CC MOP HANGER, #E-88-AA BUMPER GUARD, #832-AA HOSE AND HOSE BRACKET.	FAUCET CONTAINS VACUUM BREAKER
P6	HAND WASHING LAVATORY	LAVATORY SHALL BE KOHLER "GREENWICH" VITREOUS CHINA #K-2032 20" X 18" WALL MOUNTED WITH 4" FAUCET CENTERS. FAUCET SHALL BE "ELKAY" MODEL #LK406GN005L2 GOOSENECK FAUCET WITH LEVER HANDLES. PROVIDE SEMI-CAST TRAP AND FLEX RISERS. LAVATORY SHALL BE SUPPORTED ON PROPER BLOCKING IN WALL.	STANDARD LAVATORY
P7	BATHTUB/SHOWER	BATHTUB UNIT SHALL BE PREFABRICATED MODULES AS MANUFACTURED BY STERLING PLUMBING GROUP, INC. UNIT SHALL BE MADE OF SOLID "VIKRELL" COMPRESSION MOLDED FIBERGLAS REINFORCED RESIN. MODULES SHALL BE MADE UP OF FOUR (4) PIECE TUB AND WALLS. FINISH SHALL BE HIGH GLOSS COLOR SHALL BE SELECTED BY ARCHITECT. BATHTUB UNIT SHALL BE MODEL #71220211/12 (ABOVE FLOOR ROUGH) 60"x30"x72". RIGHT OR LEFT HAND AS REQUIRED. SHOWER BATH ASSEMBLY SHALL BE "SYMMONS" TEMPTROL #96-600-B30-L-VX PRESSURE-BALANCING MIXING VALVE WITH INTEGRAL STOPS, SINGLE BLADE HANDLE AND ADJUSTABLE STOP SCREW TO LIMIT HANDLE TURN. LEVERTOL 4-458 DIVERTER. SHOWER HEAD WITH ARM AND FLANGE. SHOWER HEAD MUST HAVE 1.5 G.P.M. FLOW RESTRICTOR. WALL/HAND SHOWER WITH FLEXIBLE METAL HOSE, IN-LINE VACUUM BREAKER, 30" SLIDE BAR FOR HAND SHOWER MOUNTING. PROVIDE FACTORY INSTALLED STAINLESS STEEL GRAB BARS.	4 PIECE BATH/SHOWER ENSEMBLE
P8	COUNTER SINK ADA ACCESSIBLE	COUNTER SINKS — STAINLESS STEEL COUNTER MOUNTED SELF—RIMMING WITH 3—HOLE INSTALLATION, 18 GAUGE ELKAY LUSTERTONE MODEL #LRAD 2521 6—1/2" DEEP, WITH STAINLESS STEEL GRID STRAINER, CHROME PLATED TRAP WITH SLIP—JOINT INLET AND WALL FLANGE. SUPPLIES SHALL BE FLEX RISERS WITH STOPS. FAUCET SHALL BE DELTA #120 SINGLE HANDLE (NO SPRAY) WITH 1.8 GPM V.R. AERATOR.	ADA ACCESSIBLE 3-HOLE INSTALLATION
- P9	ELECTRIC WATER COOLER	WATER COOLER SHALL BE EQUAL TO "ELKAY" MODEL #LZS8WSSP WITH BOTTLE FILLING STATION WITH FILTERED WATER. UNIT SHALL BE WIRED FOR 120V. 1PH AND BE CAPABLE OF 8 GPH OF 50'F. CHILLED DRINKING WATER.	BARRIER FREE AND LEAD—FREE DESIGN
P10	ELECTRIC WATER COOLER ADA ACCESSIBLE	WATER COOLER SHALL BE EQUAL TO "ELKAY" MODEL #LZS8 UNIT SHALL BE WIRED FOR FOR 120V. 1PH AND BE CAPABLE OF 8 GPH OF 50°F. CHILLED DRINKING WATER.	CONNECT NEW WATER COOLER TO EXISTING SERVICES.
P11	LAVATORY CORNER DESIGN	LAVATORY SHALL BE "KOHLER" MARSTON MODEL # K-2766 WITH FACTORY INSTALLED TRITON FAUCET. ACCESSORIES SHALL BE THE SAME AS NOTED ABOVE (P2) EXCEPT	MOUNT AT STANDARD FIXTURE HEIGHT

- . INCLUDED SHALL BE PLUMBING FIXTURES NOTED, ALL TRIM ITEMS AND ALL ACCESSORY ITEMS SHOWN OR REQUIRED FOR A COMPLETE INSTALLATION. UNLESS NOTED OTHERWISE.
- 2. THE FIXTURES SHALL BE COMPLETE WITH CHROME PLATING ON EXPOSED IRON OR PIPE, TRAPS, ANCHOR BOLTS, HANGERS, STRAINERS, LOOSE KEY STOP VALVES AT EVERY FIXTURE, FAUCET AND OTHER INCIDENTAL ITEMS FURNISHED AS STANDARD.
- 3. ALL FIXTURES ARE TO BE FIRST QUALITY, FREE OF CRACKS, BLEMISHES, OR OTHER IMPERFECTIONS AND TO BE "ACID RESISTING" QUALITY. SET AND PROPERLY CONNECT ALL FIXTURES WITH HOT AND COLD WATER, VENT AND DRAINAGE PIPING AND OTHER SERVICES AS REQUIRED AND PROTECT FIXTURES UNTIL FINAL ACCEPTANCE AND TEST.
- 4. THE PLUMBING CONTRACTOR SHALL FURNISH, SET AND CONNECT ALL FIXTURES AND ACCESSORIES SHOWN AND SPECIFIED TO FULLY COMPLETE THE PLUMBING INSTALLATION.

NOTE: PLUMBING FIXTURES TYPES ARE THE SAME AS NOTED IN PHASE 1

EXCEPT: P1A, P2A, P7, P8, P9 & P10 ARE NEW.



MECHANICAL DRAWING LIST - PHASE 2 M-8 | SECOND FLOOR PLAN - PLUMBING M-9 | SECOND, THIRD & FOURTH FLOOR PLANS - PLUMBING M-10 | SECOND FLOOR PLAN - HVAC M-11 | THIRD FLOOR PLAN - HVAC M-12 FOURTH FLOOR PLAN - HVAC M-13 ROOF AND FIFTH FLOOR PLAN - PLUMBING, HVAC & FIRE PROTECTION M−14 | REFRIGERANT RISER DIAGRAM M-15 | MECHANICAL SPECIFICATIONS M-16 | SECOND FLOOR PLAN - FIRE PROTECTION M-17 | THIRD FLOOR PLAN - FIRE PROTECTION M−18 FOURTH FLOOR PLAN - FIRE PROTECTION 



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FAN COIL UNIT AND 1 02.21.20 PLUMBING FIXTURE REVISIONS 04.16.20 DRAWING REVISION

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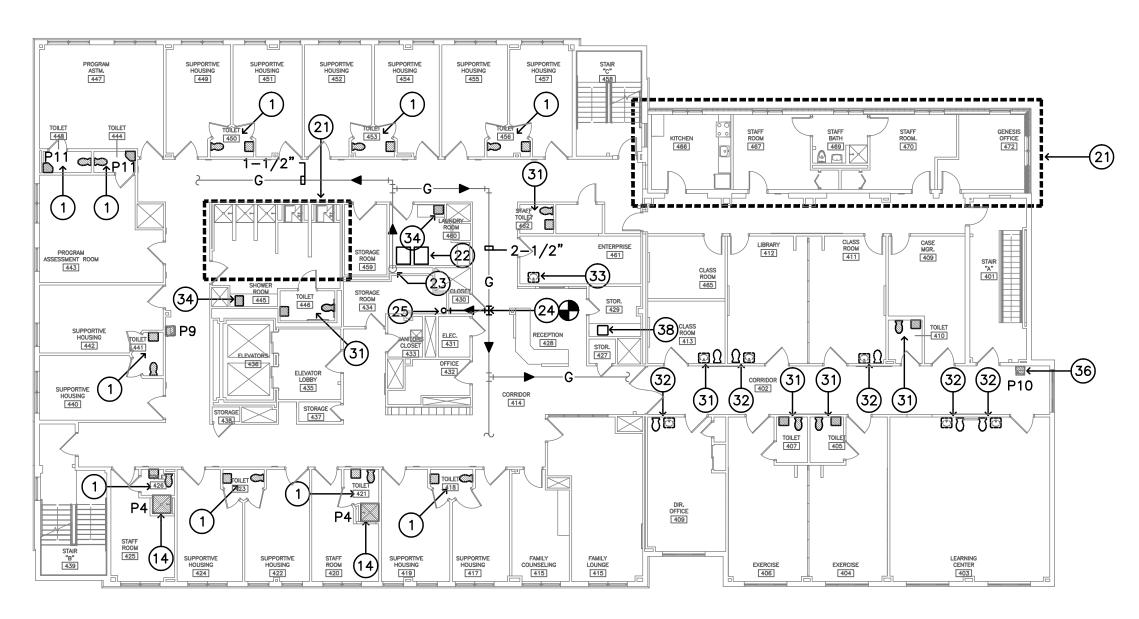
SECOND FLOOR PLAN - PLUMBING

**| EMS JOB 5033** 

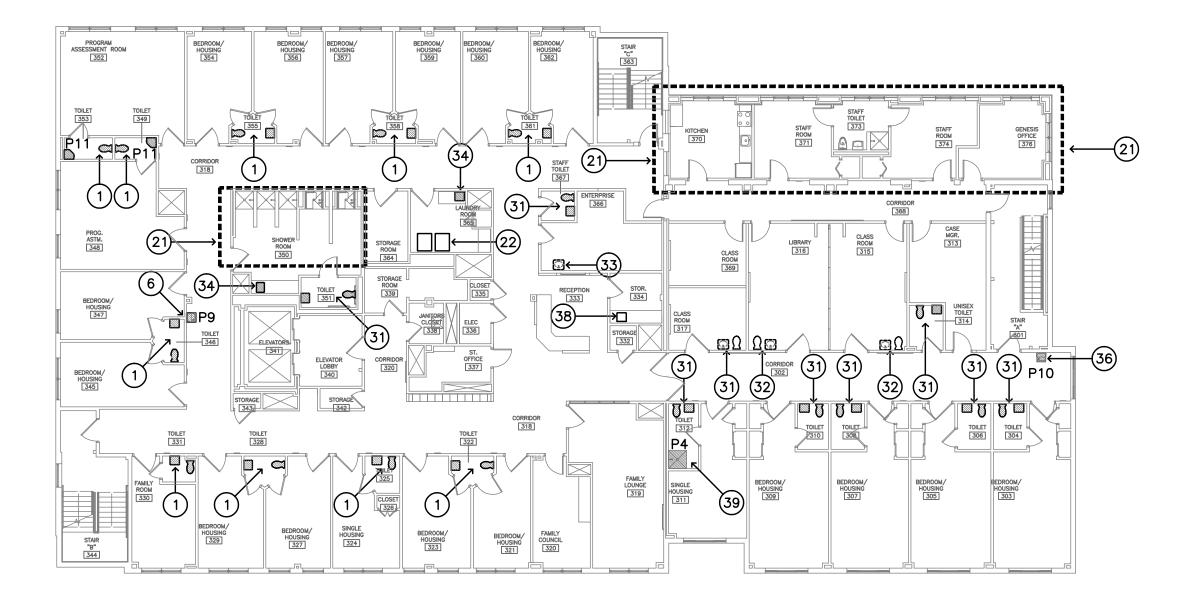
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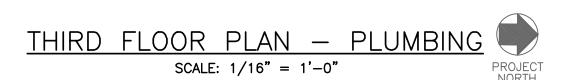
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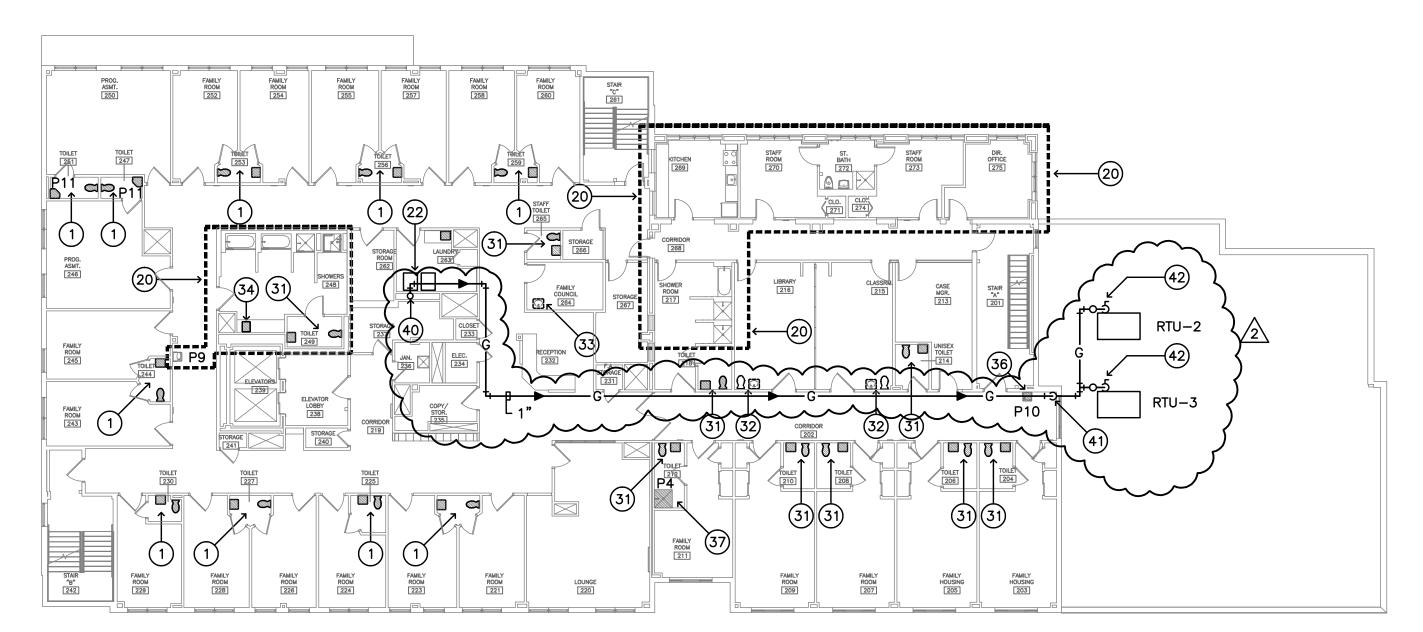
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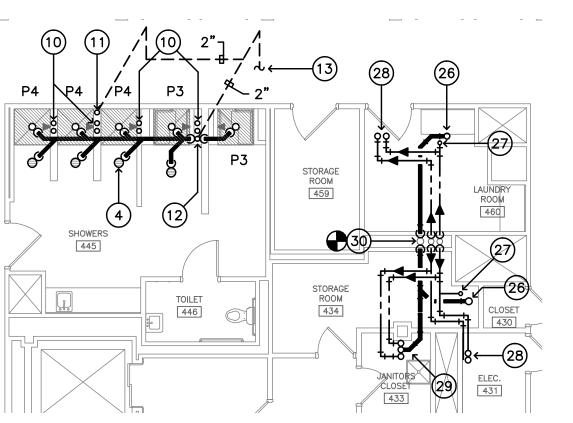




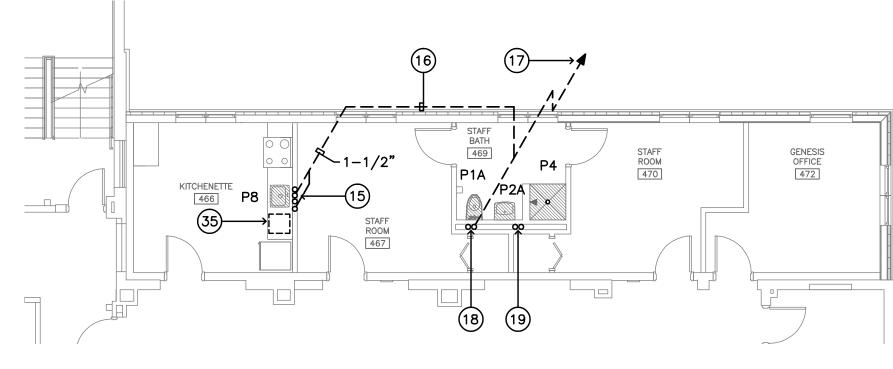




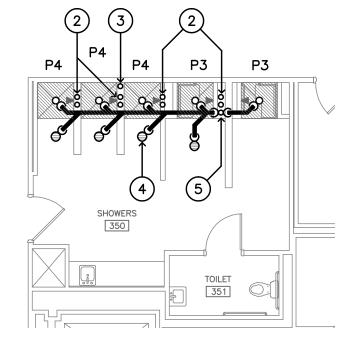
SECOND FLOOR PLAN — PLUMBING SCALE: 1/16" = 1'-0"



# PARTIAL FOURTH FLOOR PLAN - PLUMBING SCALE: 1/8" = 1'-0"

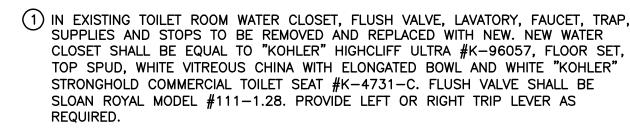


# PARTIAL FOURTH FLOOR PLAN - PLUMBING SCALE: 1/8" = 1'-0"

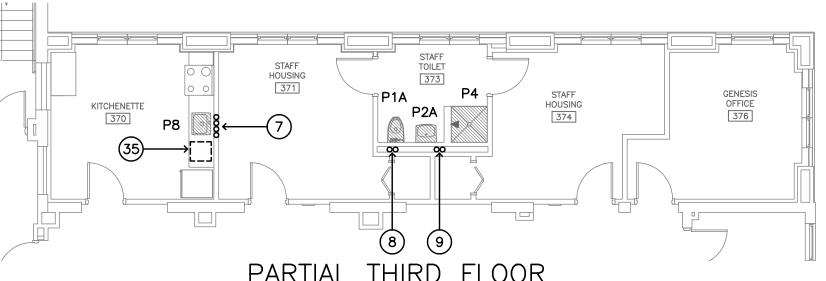


PARTIAL THIRD FLOOR <u>PLAN - PLUMBING</u>

#### SCALE: 1/8" = 1'-0"LEGEND - M-9



- NEW LAVATORY SHALL BE EQUAL TO "KOHLER" HUDSON #K-2861, 19"X17" PORCELAIN-CAST IRON, WALL HUNG WITH 4" FAUCET CENTERS. FAUCET SHALL BE "SYMMONS" SYMMETREX #S-20-G-FR-VP-W. SUPPLIES SHALL BE FLEXIBLE WITH ANGLE STOPS, TRAP SHALL BE SEMI-CAST, CHROME PLATED.
- IN TOILET ROOMS #251, 247, 353, 349, 448, & 444 NEW LAVATORY SHALL BE "KOHLER" MARSTON #K-2766 WITH FACTORY INSTALLED TRITON #K8040-2A FAUCET. SUPPILES AND TRAP SHALL BE SAME AS NOTED ABOVE.
- (2) 1/2" HOT AND COLD WATER FROM BELOW AND 1/2" HOT AND COLD WATER UP.
- (3) 2" VENT FROM BELOW AND 2" VENT UP.
- (4) 2" FLOOR DRAIN (IN DRYING AREA) TYPICAL FOR ALL SHOWERS. ALL FLOOR DRAINS TO BE PROVIDED WITH "SURE SEAL" TRAP SEALER.
- (5) 3" WASTE FROM ABOVE, 3" WASTE DOWN AND 2" VENT UP.
- 6 1/2" COLD WATER AND 1-1/2" WASTE AND VENT TO WATER COOLER CONNECT TO EXISTING SERVICES AT EXISTING LAVATORY.
- 7) 1/2" HOT AND COLD WATER UP FROM BELOW AND 1/2" HOT AND COLD WATER UP. 2" WASTE STACK AND 1-1/2" VENT STACK.
- (8) 3" SANITARY FROM ABOVE AND 3" SANITARY STACK DOWN. 2" VENT STACK FROM
- (9) 1/2" HOT AND 1-1/2" COLD WATER RISERS.
- (10) 1/2" HOT AND COLD WATER FROM BELOW.
- (11) 2" VENT UP.
- (12) 2" VENT UP AND 3" WASTE PIPING DOWN.
- (13) CONNECT NEW VENT LINE TO EXISTING VENT STACK.
- (14) CONNECT NEW SHOWER STALL TO EXISTING SERVICES AT TOILET ROOM PLUMBING FIXTURES, 1/2" HOT AND COLD WATER, 2" WASTE AND 1-1/2" VENT.
- (15) 1/2" HOT AND COLD WATER FROM BELOW, 2" WASTE DOWN, 1-1/2" VENT FROM BELOW AND 1-1/2" VENT UP TO ABOVE SUSPENDED CEILING.
- (16) RUN ABOVE SUSPENDED CEILING.
- (17) 3" VENT UP AND 3" VENT THROUGH ROOF.
- (18) 3" SANITARY DOWN, 2" VENT FROM BELOW AND 3" VENT UP.
- (19) 1/2" HOT AND 1-1/2" COLD WATER FROM BELOW.
- 20 FOR PLUMBING PIPING ON SECOND FLOOR SEE DRAWING M-8.
- 21) FOR PLUMBING PIPING ON THIRD & FOURTH FLOOR SEE 1/8" SCALE DRAWING THIS SHEET.
- 22 FOR PLUMBING IN LAUNDRY ROOM SEE DRAWING M-8.
- 23) EXISTING 2-1/2" GAS LINE FROM BELOW.
- (24) CONNECT NEW 1" GAS LINE TO EXISTING 2-1/2" GAS LINE ABOVE 4TH. FLOOR
- 25 NEW 1" GAS LINE UP THROUGH 5TH. FLOOR.
- 26) 3" SANITARY FROM WATER CLOSET ON 5TH. FL. ABOVE SEE DRAWING M-13.



PARTIAL THIRD FLOOR <u>PLAN - PLUMBING</u>

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

- 27) 1/2" COLD WATER UP TO WATER CLOSET ON 5th. FL. ABOVE SEE DRAWING M-13. 1/2" HOT AND COLD WATER UP TO LAVATORY ON 5TH. FL. ABOVE SEE DRAWING
- 1/2" HOT AND COLD WATER UP AND 1-1/2" DOWN FROM SINK ON 5TH. FL. ABOVE
- (29) SEE DRAWING M-13. CONNECT HOT AND COLD WATER AND SANITARY PIPING TO EXISTING HOT & COLD
- (30) WATER RISERS AND SANITARY STACK IN CHASE. IN EXISTING TOILET ROOM REMOVE AND DISCARD EXISTING TANK TYPE WATER CLOSET, (3) LAVATORY, FAUCET, TRAP, SUPPLIES AND STOPS, REPLACE WITH NEW WATER CLOSET,
- LAVATORY AND TRIM AND CONNECT TO EXISTING SERVICES IN FULL WORKING ORDER. • NEW TANK TYPE WATER CLOSET SHALL BE "KOHLER" HIGHLINE MODEL #K-3493,
- VITREOUS CHINA, TANK TYPE WITH 1.6 GALLON FLUSH, CLOSE-COUPLED DESIGN, FLOOR MOUNTED WITH 17" HIGH ELONGATED BOWL. WATER CLOSET SHALL BE COMPLETE WITH BOLT CAPS, ANGLE SUPPLY WITH STOP AND "KOHLER" STRONGHOLD WHITE SOLID PLASTIC OPEN FRONT SEAT.
- LAVATORY SHALL BE "KOHLER" GREENWICH VITREOUS CHINA MODEL #K-2032, 20"x18" WALL MOUNTED WITH 4" FAUCET CENTERS, FAUCET SHALL BE "SYMMONS" SYMMETREX #S-20-G-FR-VP-W. SUPPLIES SHALL BE FLEXIBLE WITH STOPS, TRAP SHALL BE CHROME PLATED SEMI-CAST LAVATORY SHALL BE SUPPORTED ON PROPER BLOCKING IN WALL.
- REMOVE AND DISCARD EXISTING WATER CLOSET, LAVATORY TRIM AND ALL ASSOCIATED HOT, COLD, WASTE AND VENT PIPING. REMOVE ALL UNUSED EXISTING PIPING AND CAP BACK AT ACTIVE MAINS.
- (33) REMOVE AND DISCARD EXISTING COUNTER SINK, TRIM AND ALL ASSOCIATED HOT, COLD, WASTE AND VENT PIPING. REMOVE ALL UNUSED EXISTING PIPING AND CAP BACK AT ACTIVE MAINS.
- (34) REMOVE AND DISCARD EXISTING COUNTER SINK AND TRIM AND REPLACE WITH NEW STAINLESS STEEL SINK AND ACCESSORIES AND CONNECT TO EXISTING SERVICES IN FULL WORKING ORDER.
- NEW COUNTER SINK SHALL BE EQUAL TO "ELKAY" LUSTERTONE MODEL #LR-2219 SINGLE COMPARTMENT, 18 GAUGE, TYPE 304 SELF-RIM STAINLESS STEEL. SINK DEPTH SHALL BE 7-1/2". SINK SHALL BE COMPLETE WITH "ELKAY" MODEL #LKD-2423-BHC FAUCET WITH THREE HOLE INSTALLATION, PROVIDE CHROME PLATED DELUXE DRAIN OUTLET, SEMI-CAST C.P. TRAP AND FLEX SUPPLIES WITH STOPS. COUNTER NOT IN THIS DIVISION.
- NOTE: IN SHOWER ROOMS 248, 350 & 445 COUNTER SINKS SHALL BE ADA ACCESSIBLE "ELKAY" MODEL #LRAD-2219 WITH 6" SINK DEPTH. TRIM SAME NOTED
- (35) UNDER COUNTER DISHWASHER, 1/2" HOT WATER CONNECT TO SINK RISER AND FLEX WASTE TO DISHWASHER TAIL PIECE AT ADJACENT SINK. VALVE HOT WATER TO DISHWASHER INDEPENDENTLY BELOW COUNTER.
- (36) REMOVE EXISTING WALL HUNG ECLECTIC COOLER AND REPLACE WITH NEW. RECONNECT TO EXISTING UTILITIES IN FULL OPERATING ORDER.
- (37) EXISTING TILED SHOWER PREVIOUSLY REMOVED. INSTALL NEW PREFABRICATED SHOWER
- STALL IN SAME LOCATION. UTILIZE EXISTING SERVICES AND MODIFY AS REQUIRED.
- (38) REMOVE EXISTING COUNTER SINK, HOT, COLD WASTE AND VENT PIPING AND ALL ACCESSORIES. CAP SERVICES BEHIND FINISHED WALL AND MAKE SAFE.
- (39) REMOVE EXISTING TILED SHOWER. INSTALL NEW PREFABRICATED SHOWER STALL IN SAME LOCATION. UTILIZE EXISTING SERVICES AND MODIFY AS REQUIRED.

  APPROXIMATE LOCATION OF EXISTING GAS LINE RISER. CONNECT NEW 1" GAS LINE ABOVE CEILING OF SECOND FLOOR AND RUN TO NEW ROOF TOP UNITS #2 & 3.

DROP DOWN TO ROOF OF NORTH ADDITION.

3/4" GAS LINE TO ROOF TOP UNIT WITH GAS PRESSURE REGULATOR, BALL VALVE, DIRT LEG AND UNION AT CONNECTION.



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04.16.20 DRAWING REVISION

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C AVENUE
CONNECTICUT Š V CON: 5 PARK ORT, CO II: INTI NEW ( 725 F GEPO SMIL ( JOEL S BRIDG

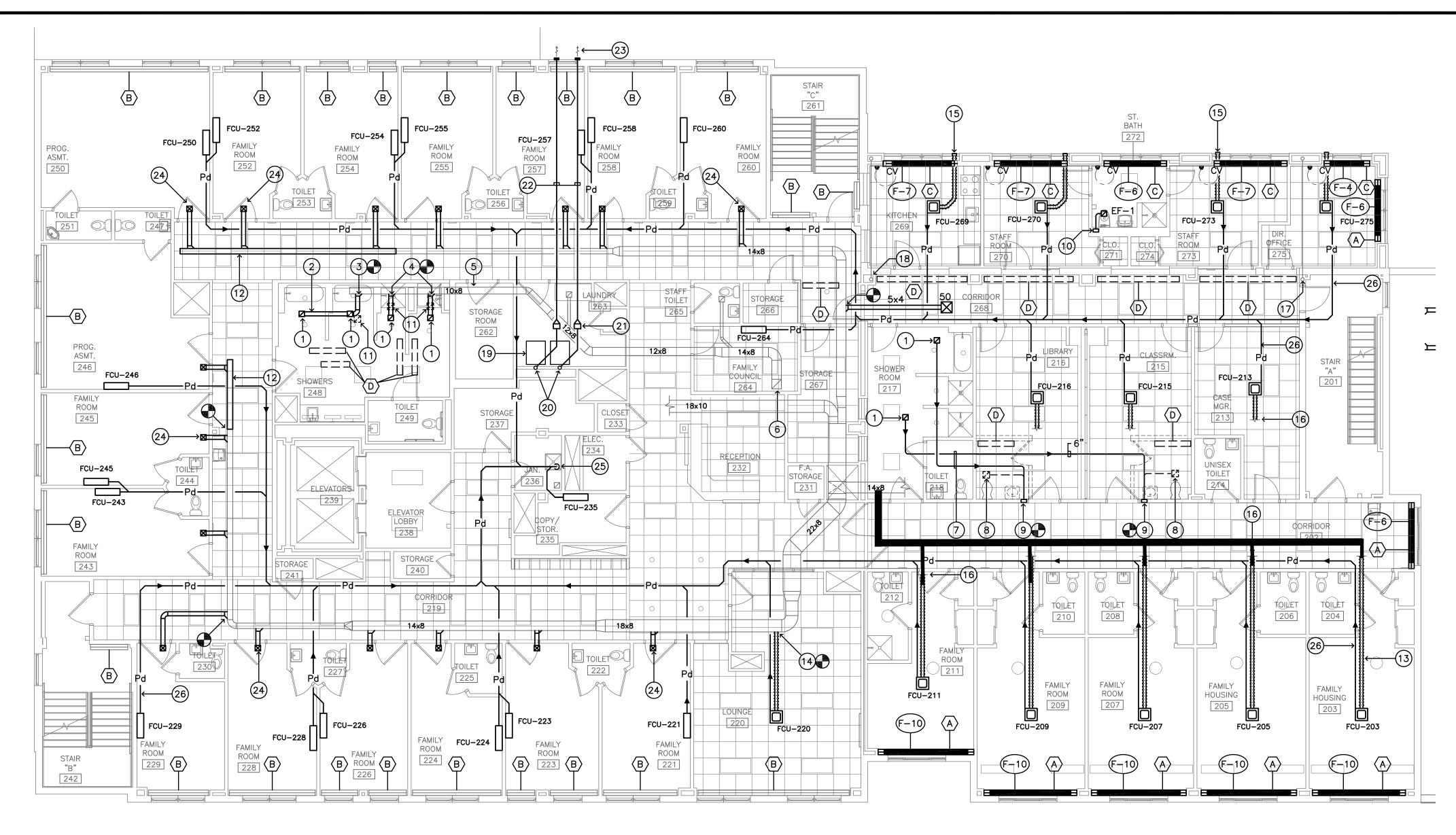
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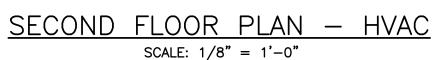
SECOND, THIRD & FOURTH FLOOR PLANS PLUMBING

BJC

04.16.2020 - CM BID

GDD JOB NUMBER: 05 MARCH 2020





# **RADIATION LEGEND**

(A) REMOVE EXISTING RADIATION INCLUDING BACKPLATE, COVERS, FINNED-TUBE, ISOLATION VALVES, MANUAL AIR VENTS AND CONTROLS. IN IT'S PLACE INSTALL NEW RADIATION (COVER TO BE WALL TO WALL WHERE SHOWN) WITH END CAPS AND SPLICE PLATES AS REQUIRED, NEW ISOLATION VALVES, MANUAL AIR VENTS AND CONTROLS.

RADIATION BASE BID

SHALL BE "SLANT/FIN" OR EQUAL MULTI/PAK 80 HEAVY DUTY, HIGH OUTPUT BASEBOARD RADIATION WITH 18-GAUGE ONE PIECE FRONT PANEL, 16 GAUGE BRACKETS AND 22 GAUGE BACK AND TOP PANEL. RADIATION SHALL CONTAIN A HEATING ELEMENT TO PROVIDE A MINIMUM OF 700 B.T.U./FT. WITH 170°F. HOT WATER SUPPLY TEMPERATURE, PIPE SIZE TO MATCH EXISTING. ALL COVER COMPONENTS SHALL BE FACTORY PAINTED IN NU-WHITE OVEN BAKED CROSS-LINKED POLYESTER ENAMEL.

RADIATION ADD ALTERNATE

SHALL BE "SLANT/FIN" OR EQUAL 350 L SERIES HEAVY DUTY HIGH OUTPUT, SLOPE-TOP BASEBOARD RADIATION WITH 16 GAUGE STEEL ONE PIECE FRONT COVER, 17 GAUGE BRACKETS. PIPE SIZE TO MATCH EXISTING. RADIATION SHALL CONTAIN A HEATING ELEMENT TO PROVIDE A MINIMUM OF 700 B.T.U./FT. WITH 170°F. HOT WATER SUPPLY TEMPERATURE, PIPE SIZE TO MATCH EXISTING. ALL COVER COMPONENTS SHALL BE FACTORY PAINTED IN NU-WHITE OVEN BAKED CROSS-LINKED POLYESTER ENAMEL.

- (B) EXISTING WALL MOUNTED FINNED-TUB RADIATION TO REMAIN. THE FINNED-TUBE ELEMENT MUST BE THOROUGHLY CLEANED, COVERS AND TRIM ARE TO BE REMOVED, CLEANED, PRIMED, PAINTED AND REINSTALLED (COLOR TO BE SELECTED BY ARCHITECT). SEQUENCE AS NOTED ABOVE SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- © NEW HOT WATER BASEBOARD RADIATION SHALL BE THE SAME AS NOTED IN "BASE BID" RADIATION ABOVE, COMPLETE WITH ISOLATION VALVES, MANUAL AIR VENTS AND CONTROLS.
- (D) EXISTING RADIATION TO BE REMOVED IN IT'S ENTIRETY INCLUDING ALL ASSOCIATED PIPING, VALVES AND ACCESSORIES.
- (F-10) SYMBOL INDICATES LENGTH OF RADIATION ELEMENT.

# RADIATION CONTROLS

- 1. NEW RADIATION NOTED (A) SHALL BE INDIVIDUALLY CONTROLLED UTILIZING "TACO" RADIATION CONTROL VALVES.
  - NEW RADIATION NOTED (C) SHALL BE INDIVIDUALLY CONTROLLED UTILIZING "TACO" ADIATION CONTROL VALVE.
- 2. FOR EXISTING RADIATION THAT REMAINS CONTRACTOR IS TO PROVIDE UNIT PIECES TO REPLACE ISOLATION VALVES, VENT VALVES AND CONTROL VALVES ON AN AS NEEDED BASIS.

ALL RADIATION TO BE EQUIPPED WITH "TACO" RADIATION CONTROL VALVES.

# LEGEND - M-10

- (1) NEW 8"x8" CEILING EXHAUST GRILLE WITH DAMPER, 70C.F.M. EACH.
- (2) NEW 6"x5" EXHAUST DUCT WORK.
- (3) REMOVE EXISTING 6" DIA EXHAUST DUCTWORK AND CEILING EXHAUST GRILLE AND REPLACE WITH NEW 7"x6" EXHAUST DUCT.
- 4 REMOVE EXISTING 6" DIA. EXHAUST DUCTWORK AND REPLACE WITH NEW, CONNECT TO NEW CEILING EXHAUST GRILLE.
- (5) EXISTING 10"x8" EXHAUST DUCTWORK ABOVE CEILING.
- (6) EXISTING 12"x10" EXHAUST RISER.
- (7) NEW 6" DIA. EXHAUST DUCTWORK ABOVE CEILING.
- (8) REMOVE EXISTING CEILING EXHAUST GRILLE AND ASSOCIATED DUCTWORK.
- (9) CONNECT NEW 6" DIA. EXHAUST DUCTWORK TO EXISTING 6"x4" EXHAUST RISER.
- (10) NEW 6"x4" EXHAUST RISER UP.
- 11) REMOVE EXISTING CEILING EXHAUST GRILLE AND ASSOCIATED DUCTWORK BACK TO MAIN BRANCH.
- (12) EXTEND EXISTING 8"x8" DUCTWORK.
- (13) 4" DIA. (INSULATED) FLEX DUCTWORK, TYPICAL.
- (14) CONNECT NEW 4" DIA. DUCTWORK TO EXISTING SUPPLY DUCTWORK ABOVE CEILING AND RUN TO FAN COIL UNIT, TYPICAL.
- (15) 4" DIA. OUTSIDE AIR SCREENED INLET TYPICAL FOR (4).
- (16) CONNECT NEW FAN COIL UNIT TO EXISTING SUPPLY DUCTWORK ABOVE CEILING, (NOT SHOWN) TYPICAL.
- (17) EXISTING HOT WATER SUPPLY RISER EXTEND TO NEW PERIMETER RADIATION.
- (18) EXISTING HOT WATER RETURN RISER EXTEND TO NEW PERIMETER RADIATION.
- (19) TWO (2) STACKED WASHER/DRYERS OWNERS EQUIPMENT. 20 4" DRYER VENT.
- (21) INLINE DRYER EXHAUST FAN EQUAL TO "FANTECH" MODEL DBF-4XL WITH PRESSURE SENSING SWITCH TO AUTOMATICALLY TURN THE FAN ON WHEN THE DRYER IS ON AND WILL TURN ITSELF OFF WHEN THE DRYER STOPS. 120V. 1PH. (65 WATTS)

- (2) DRYER VENTING REQUIREMENTS • DUCTING MUST BE RIGID METAL (GALVANIZED OR ALUMINUM) DUCT.
- DUCT JOINTS SHALL BE INSTALLED SO THAT THE MALE END OF THE DUCT POINTS IN THE DIRECTION OF THE AIRFLOW.
- JOINTS SHOULD BE SECURED WITH METAL TAPE (NOT DUCT TAPE). DO NOT USE RIVETS OR SCREWS IN THE JOINTS OR ANYWHERE ELSE IN THE DUCT.
- DRYER VENTING SHALL BE INDEPENDENT OF ANY OTHER SYSTEMS (CHIMNEYS OR EXHAUST VENTS).
- TERMINATION OF DRYER VENTING MUST BE TO THE EXTERIOR WITH A PROPER HOOD CAP EQUIPPED WITH A BACKDRAFT DAMPER. SMALL ORIFICE METAL SCREENING SHOULD NOT BE PART OF THE HOOD OR ROOF CAP AS THIS WILL CATCH LINT AND BLOCK OPENING. THE HOOD OPENING SHOULD POINT DOWN.
- (23) WALL TERMINATION.
- (24) 6"x6" O.A. SUPPLY GRILLE WITH 4" ROUND DUCT, TYPICAL.
- (25) OPEN END CONDENSATE DRAIN PUMPED DISCHARGE (Pd) LINE OVER JANITORS SERVICE SINK.
- 6 CONDENSATE DRAIN PUMPED DISCHARGE (Pd) LINE FROM FAN COIL UNIT, TYPICAL

	EXHAUST FAN SCHEDULE											
SYMBOL	MAKE	MODEL	TYPE	СҒМ	WATTS	VOLTAGE	DRIVE	RPM	SONES			
EF-1	PANASONIC	FV-0511VK2	CEILING	70	4.3	120V. 1PH	DIRECT	760	0.3			
EF-2	PANASONIC	FV-0511VK2	CEILING	70	4.3	120V. 1PH	DIRECT	760	0.3			
EF-3	PANASONIC	FV-0511VK2	CEILING	70	4.3	120V. 1PH	DIRECT	760	0.3			
EF-4	PANASONIC	FV-0511VK2	CEILING	70	4.3	120V. 1PH	DIRECT	760	0.3			
EF-5	PANASONIC	FV-0511VK2	CEILING	70	4.3	120V. 1PH	DIRECT	760	0.3			
EF-1-6	EF-1-EF-4 WIRE TO WALL LIGHT SWITCH. E-5 ON CONTINOUS.											

SYMBOL	ROOM	DAIKIN FAN COIL UNIT MODEL	OUTDOOR UNIT	C.F.M.	O.A. C.F.M.	MOUNTING LOCATION	VOLTAGE	MCA	МОР
FUC-203	203	FXZQ09TAVJU	ACCU-5	317	15	CEILING	208-230V, 1PH	0.3	15A
FUC-205	205	FXZQ09TAVJU	ACCU-5	317	15	CEILING	208-230V, 1PH	0.3	15A
FUC-207	207	FXZQ09TAVJU	ACCU-5	317	15	CEILING	208-230V, 1PH	0.3	15A
FUC-209	209	FXZQ09TAVJU	ACCU-5	317	15	CEILING	208-230V, 1PH	0.3	15A
FUC-211	211	FXZQ07TAVJU	ACCU-5	307	15	CEILING	208-230V, 1PH	0.3	15A
FUC-213	213	FXZQ07TAVJU	ACCU-4	307	20	CEILING	208-230V, 1PH	0.3	15A
FUC-215	215	FXZQ09TAVJU	ACCU-4	317	50	CEILING	208-230V, 1PH	0.3	15A
FUC-216	216	FXZQ09TAVJU	ACCU-4	317	30	CEILING	208-230V, 1PH	0.3	15A
FUC-235	235	FXAQ05PVJU	ACCU-4	260	ı	WALL	208-230V, 1PH	0.3	15A
FUC-264	264	FXAQ07PVJU	ACCU-4	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-220	220	FXAQ18PVJU	ACCU-3	500	50	WALL	208-230V, 1PH	0.4	15A
FUC-221	221	FXAQ07PVJU	ACCU-3	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-223	223	FXAQ07PVJU	ACCU-3	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-224	224	FXAQ07PVJU	ACCU-3	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-226	226	FXAQ07PVJU	ACCU-3	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-228	228	FXAQ07PVJU	ACCU-3	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-229	229	FXAQ07PVJU	ACCU-3	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-243	243	FXAQ07PVJU	ACCU-2	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-245	245	FXAQ07PVJU	ACCU-2	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-246	246	FXAQ09PVJU	ACCU-2	280	30	WALL	208-230V, 1PH	0.3	15A
FUC-250	250	FXAQ12PVJU	ACCU-2	290	30	WALL	208-230V, 1PH	0.4	15A
FUC-252	252	FXAQ07PVJU	ACCU-1	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-254	254	FXAQ07PVJU	ACCU-1	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-255	255	FXAQ07PVJU	ACCU-1	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-257	257	FXAQ07PVJU	ACCU-1	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-258	258	FXAQ07PVJU	ACCU-1	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-260	260	FXAQ07PVJU	ACCU-1	260	15	WALL	208-230V, 1PH	0.3	15A
FUC-269	236	FXZQ05TAVJU	ACCU-6	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-270	270	FXZQ05TAVJU	ACCU-6	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-273	273	FXZQ05TAVJU	ACCU-6	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-275	275	FXZQ05TAVJU	ACCU-6	300	15	CEILING	208-230V, 1PH	0.3	15A
		ALL INCLUDE: INLINE FERFACE FOR USE I							

FAN COIL UNIT SCHEDULE - SECOND FLOOR

 $\sim\sim\sim\sim$ DRAWING REVISION



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SIONS:	
DATE	DESCRIPTION
02.21.20	FAN COIL UNIT AND PLUMBING FIXTURE REVISIONS
	DATE

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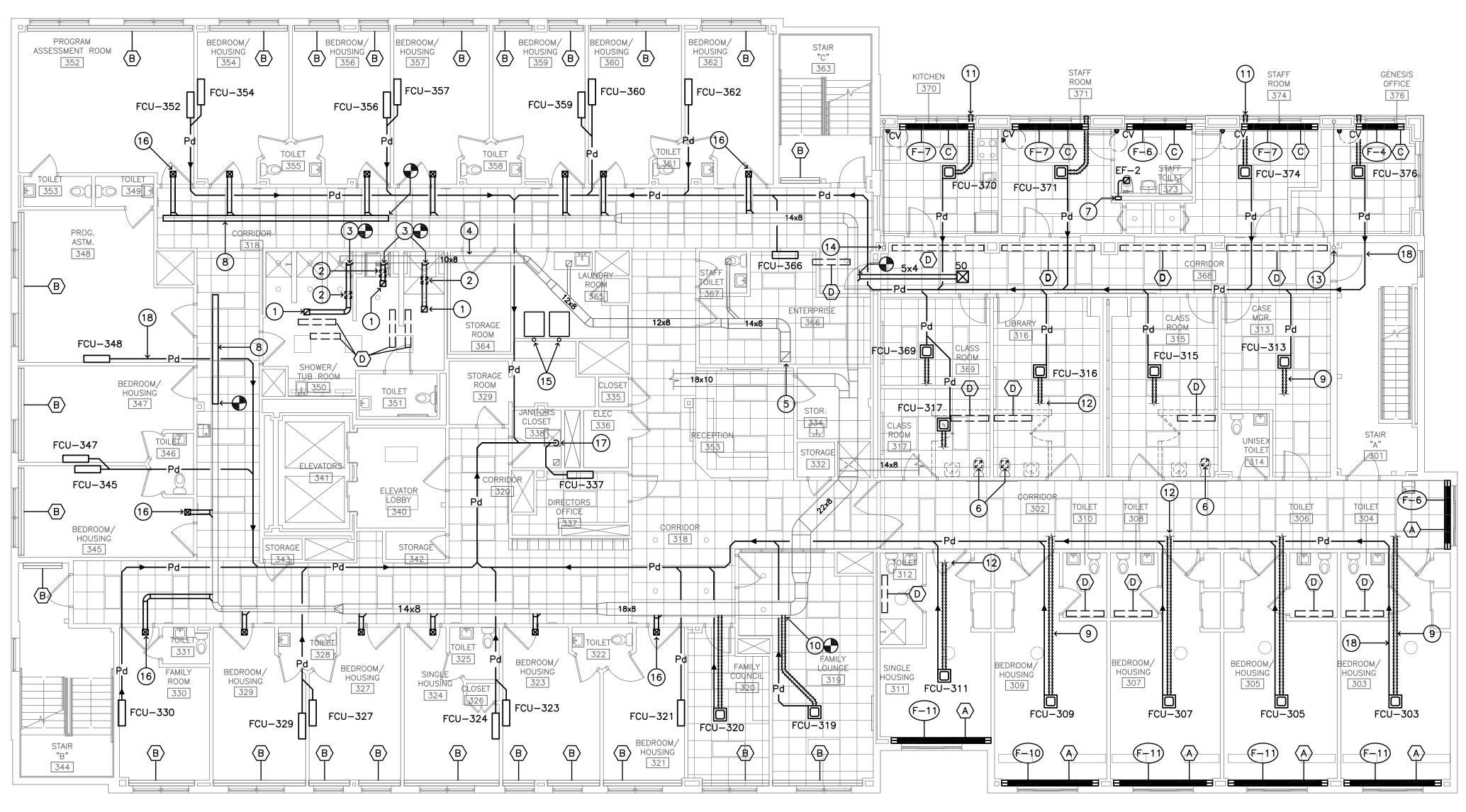
JOEL RIDG

SECOND FLOOR PLAN - HVAC

BJC 1/8"=1'-0"

05 MARCH 2020

19469





# RADIATION LEGEND

(A) REMOVE EXISTING RADIATION INCLUDING BACKPLATE, COVERS, FINNED-TUBE, ISOLATION VALVES, MANUAL AIR VENTS AND CONTROLS. IN IT'S PLACE INSTALL NEW RADIATION (COVER TO BE WALL TO WALL WHERE SHOWN) WITH END CAPS AND SPLICE PLATES AS REQUIRED, NEW ISOLATION VALVES, MANUAL AIR VENTS AND CONTROLS.

RADIATION BASE BID

SHALL BE "SLANT/FIN" OR EQUAL MULTI/PAK 80 HEAVY DUTY, HIGH OUTPUT BASEBOARD RADIATION WITH 18-GAUGE ONE PIECE FRONT PANEL, 16 GAUGE BRACKETS AND 22 GAUGE BACK AND TOP PANEL. RADIATION SHALL CONTAIN A HEATING ELEMENT TO PROVIDE A MINIMUM OF 700 B.T.U./FT. WITH 170°F. HOT WATER SUPPLY TEMPERATURE, PIPE SIZE TO MATCH EXISTING. ALL COVER COMPONENTS SHALL BE FACTORY PAINTED IN NU-WHITE OVEN BAKED CROSS-LINKED POLYESTER ENAMEL.

RADIATION ADD ALTERNATE
SHALL BE "SLANT/FIN" OR EQUAL 350 L SERIES HEAVY DUTY HIGH OUTPUT, SLOPE—TOP BASEBOARD RADIATION WITH 16 GAUGE STEEL ONE PIECE FRONT COVER, 17 GAUGE BRACKETS. PIPE SIZE TO MATCH EXISTING. RADIATION SHALL CONTAIN A HEATING ELEMENT TO PROVIDE A MINIMUM OF 700 B.T.U./FT. WITH 170°F. HOT WATER SUPPLY TEMPERATURE, PIPE SIZE TO MATCH EXISTING. ALL COVER COMPONENTS SHALL BE FACTORY PAINTED IN NU-WHITE OVEN BAKED CROSS-LINKED POLYESTER ENAMEL.

- (B) EXISTING WALL MOUNTED FINNED-TUB RADIATION TO REMAIN. THE FINNED-TUBE ELEMENT MUST BE THOROUGHLY CLEANED, COVERS AND TRIM ARE TO BE REMOVED, CLEANED, PRIMED, PAINTED AND REINSTALLED (COLOR TO BE SELECTED BY ARCHITECT). SEQUENCE AS NOTED ABOVE SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- (C) NEW HOT WATER BASEBOARD RADIATION SHALL BE THE SAME AS NOTED IN "BASE BID" RADIATION ABOVE, COMPLETE WITH ISOLATION VALVES, MANUAL AIR VENTS AND CONTROLS.
- D EXISTING RADIATION TO BE REMOVED IN IT'S ENTIRETY INCLUDING ALL ASSOCIATED PIPING, VALVES AND ACCESSORIES.
- (F-10) SYMBOL INDICATES LENGTH OF RADIATION ELEMENT.

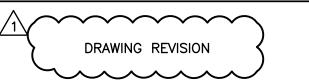
RADIATION CONTROLS

- 1. NEW RADIATION NOTED (A) SHALL BE INDIVIDUALLY CONTROLLED UTILIZING "TACO" RADIATION CONTROL VALVES.
- NEW RADIATION NOTED (C) SHALL BE INDIVIDUALLY CONTROLLED UTILIZING "TACO" ADIATION CONTROL VALVE.
- 2. FOR EXISTING RADIATION THAT REMAINS CONTRACTOR IS TO PROVIDE UNIT PIECES TO REPLACE ISOLATION VALVES, VENT VALVES AND CONTROL VALVES ON AN AS NEEDED BASIS.

LEGEND - M-11

- (1) NEW 8"x8" CEILING EXHAUST GRILLE WITH DAMPER, 70 C.F.M. EACH.
- (2) REMOVE EXISTING CEILING EXHAUST GRILLE AND ASSOCIATED DUCTWORK BACK TO MAIN BRANCH.
- 3 CONNECT NEW 6" DIA. EXHAUST DUCTWORK TO EXISTING AND EXTEND TO NEW EXHAUST GRILLE
- (4) EXISTING 10"x8" EXHAUST DUCTWORK ABOVE CEILING.
- (5) EXISTING EXHAUST RISER.
- 6 REMOVE EXISTING CEILING EXHAUST GRILLE AND ASSOCIATED DUCTWORK BACK TO RISER LOCATION, BLANK OFF AT EXISTING RISER AIR—TIGHT.
- (7) 4"x6" FROM BELOW AND 7"x6" EXHAUST RISER UP.
- (8) EXTEND EXISTING 8"X8" DUCTWORK.
- (9) 4" DIA. (INSULATED) FLEX DUCTWORK, TYPICAL.
- (10) CONNECT NEW 4" DIA. DUCTWORK TO EXISTING SUPPLY DUCTWORK ABOVE CEILING AND RUN TO FAN COIL UNIT, TYPICAL.
- (11) 4" DIA. OUTSIDE AIR SCREENED INLET TYPICAL FOR (4).
- (12) CONNECT NEW FAN COIL UNIT TO EXISTING SUPPLY DUCTWORK ABOVE CEILING (NOT SHOWN) TYPICAL.
- (13) EXISTING HOT WATER SUPPLY RISER EXTEND TO NEW PERIMETER RADIATION.
- (14) EXISTING HOT WATER RETURN RISER EXTEND TO NEW PERIMETER RADIATION.
- (15) SEE SECOND FLOOR PLAN DWG. M-10 FOR DUCTING OF CLOTHES DRYERS.
- (16) 6"X6" O.A. SUPPLY GRILLE WITH 4" ROUND DUCT, TYPICAL.
- 17) OPEN END CONDENSATE DRAIN PUMPED DISCHARGE (PD) LINE OVER JANITORS SERVICE SINK.
- (18) CONDENSATE DRAIN PUMPED DISCHARGE (PD) LINE FROM FAN COIL UNIT, TYPICAL

FAN COIL UNIT SCHEDULE - THIRD FLOOR										
SYMBOL	ROOM	DAIKIN FAN COIL UNIT MODEL	OUTDOOR UNIT	C.F.M.	O.A. C.F.M.	MOUNTING LOCATION	VOLTAGE	MCA	МОР	
FUC-303	303	FXZQ09TAVJU	ACCU-5	317	7.5	CEILING	208-230V, 1PH	0.3	15A	
FUC-305	305	FXZQ09TAVJU	ACCU-5	317	15	CEILING	208-230V, 1PH	0.3	15A	
FUC-307	307	FXZQ09TAVJU	ACCU-5	317	15	CEILING	208-230V, 1PH	0.3	15A	
FUC-309	309	FXZQ12TAVJU	ACCU-5	353	15	CEILING	208-230V, 1PH	0.4	15A	
FUC-311	311	FXZQ07TAVJU	ACCU-5	307	15	CEILING	208-230V, 1PH	0.3	15A	
FUC-313	313	FXZQ09TAVJU	ACCU-4	317	20	CEILING	208-230V, 1PH	0.3	15A	
FUC-315	315	FXZQ09TAVJU	ACCU-4	317	50	CEILING	208-230V, 1PH	0.3	15A	
FUC-316	316	FXZQ09TAVJU	ACCU-4	317	30	CEILING	208-230V, 1PH	0.3	15A	
FUC-317	317	FXZQ05TAVJU	ACCU-4	300	30	CEILING	208-230V, 1PH	0.3	15A	
FUC-369	369	FXZQ05TAVJU	ACCU-4	300	30	CEILING	208-230V, 1PH	0.3	15A	
FUC-366	366	FXAQ07PVJU	ACCU-4	260	20	WALL	208-230V, 1PH	0.3	15A	
FUC-337	337	FXAQ05PVJU	ACCU-4	260	7.5	WALL	208-230V, 1PH	0.3	15A	
FUC-319	319	FXAQ12PVJU	ACCU-3	290	30	WALL	208-230V, 1PH	0.4	15A	
FUC-320	320	FXAQ07PVJU	ACCU-3	260	15	WALL	208-230V, 1PH	0.3	15A	
FUC-321	321	FXAQ07PVJU	ACCU-3	260	7.5	WALL	208-230V, 1PH	0.3	15A	
FUC-323	323	FXAQ07PVJU	ACCU-3	260	7.5	WALL	208-230V, 1PH	0.3	15A	
FUC-324	324	FXAQ07PVJU	ACCU-3	260	7.5	WALL	208-230V, 1PH	0.3	15A	
FUC-327	327	FXAQ07PVJU	ACCU-3	260	7.5	WALL	208-230V, 1PH	0.3	15A	
FUC-329	329	FXAQ07PVJU	ACCU-3	260	7.5	WALL	208-230V, 1PH	0.3	15A	
FUC-330	330	FXAQ07PVJU	ACCU-3	260	15	WALL	208-230V, 1PH	0.3	15A	
FUC-345	345	FXAQ07PVJU	ACCU-2	260	15	WALL	208-230V, 1PH	0.3	15A	
FUC-347	347	FXAQ07PVJU	ACCU-2	260	15	WALL	208-230V, 1PH	0.3	15A	
FUC-348	348	FXAQ12PVJU	ACCU-2	290	20	WALL	208-230V, 1PH	0.4	15A	
FUC-352	352	FXAQ12PVJU	ACCU-2	290	20	WALL	208-230V, 1PH	0.4	15A	
FUC-354	354	FXAQ07PVJU	ACCU-1	260	15	WALL	208-230V, 1PH	0.3	15A	
FUC-356	356	FXAQ07PVJU	ACCU-1	260	15	WALL	208-230V, 1PH	0.3	15A	
FUC-357	357	FXAQ07PVJU	ACCU-1	260	15	WALL	208-230V, 1PH	0.3	15A	
FUC-359	359	FXAQ07PVJU	ACCU-1	260	15	WALL	208-230V, 1PH	0.3	15A	
FUC-360	360	FXAQ07PVJU	ACCU-1	260	15	WALL	208-230V, 1PH	0.3	15A	
FUC-362	362	FXAQ07PVJU	ACCU-1	260	15	WALL	208-230V, 1PH	0.3	15A	
FUC-370	370	FXZQ05TAVJU	ACCU-6	300	15	CEILING	208-230V, 1PH	0.3	15A	
FUC-371	371	FXZQ05TAVJU	ACCU-6	300	15	CEILING	208-230V, 1PH	0.3	15A	
FUC-374	374	FXZQ05TAVJU	ACCU-6	300	15	CEILING	208-230V, 1PH	0.3	15A	
FUC-376	376	FXZQ05TAVJU	ACCU-6	300	15	CEILING	208-230V, 1PH	0.3	15A	
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FAN COIL UNIT AND 02.21.20 PLUMBING FIXTURE REVISIONS

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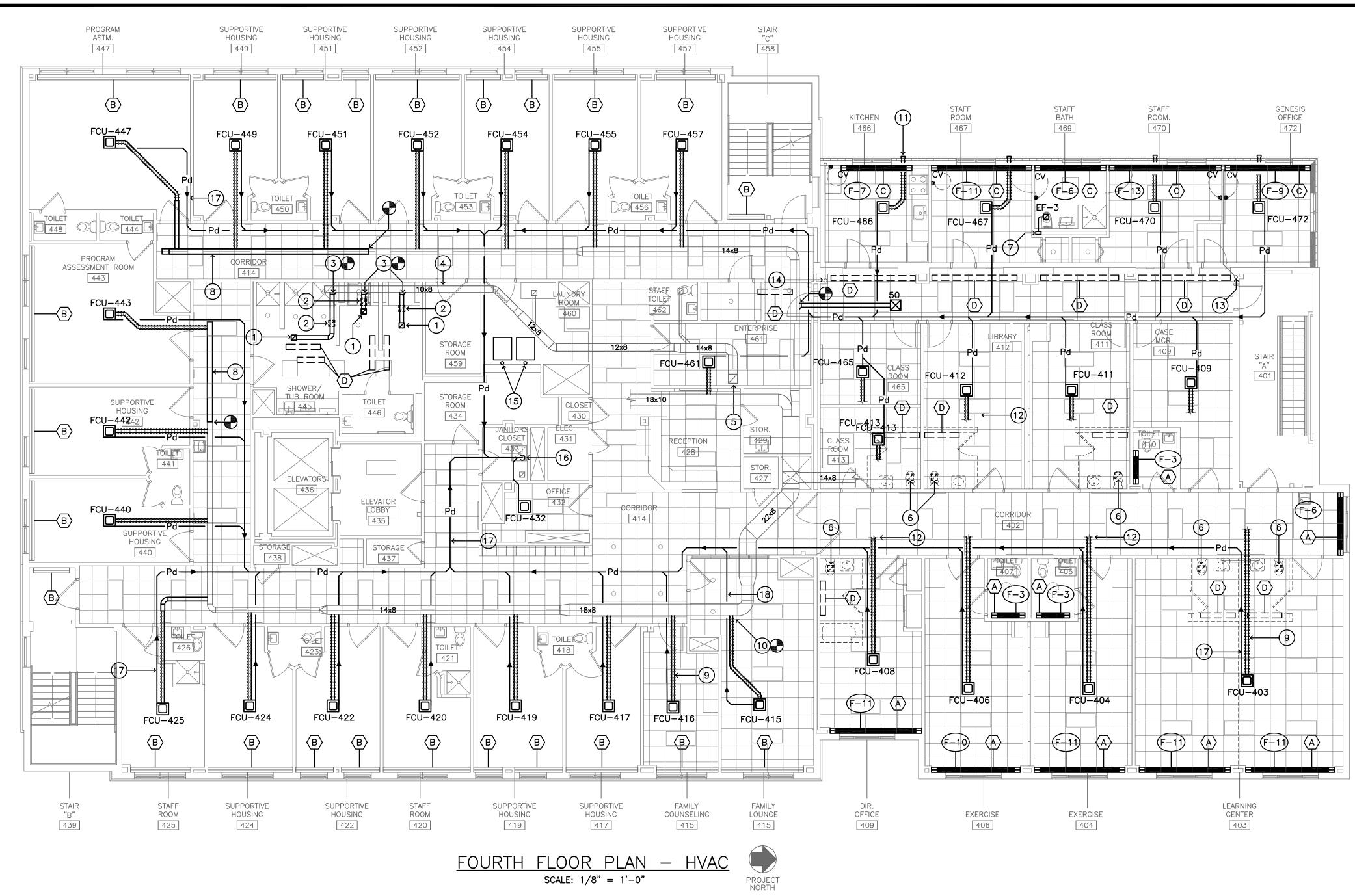
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**EMS JOB 5033** 

THIRD FLOOR PLAN - HVAC

05 MARCH 2020 19469

ALL RADIATION TO BE EQUIPPED WITH "TACO" RADIATION CONTROL VALVES.



RADIATION LEGEND

(A) REMOVE EXISTING RADIATION INCLUDING BACKPLATE, COVERS, FINNED-TUBE, ISOLATION VALVES,  $^\prime$  manual air vents and controls. In it's place install new radiation (cover to be wall TO WALL WHERE SHOWN) WITH END CAPS AND SPLICE PLATES AS REQUIRED, NEW ISOLATION VALVES, MANUAL AIR VENTS AND CONTROLS.

RADIATION BASE BID SHALL BE "SLANT/FIN" OR EQUAL MULTI/PAK 80 HEAVY DUTY, HIGH OUTPUT BASEBOARD RADIATION WITH 18-GAUGE ONE PIECE FRONT PANEL, 16 GAUGE BRACKETS AND 22 GAUGE BACK AND TOP PANEL. RADIATION SHALL CONTAIN A HEATING ELEMENT TO PROVIDE A MINIMUM OF 700 B.T.U./FT. WITH 170°F. HOT WATER SUPPLY TEMPERATURE, PIPE SIZE TO MATCH EXISTING. ALL COVER COMPONENTS SHALL BE FACTORY PAINTED IN NU-WHITE OVEN BAKED CROSS-LINKED POLYESTER ENAMEL.

SHALL BE "SLANT/FIN" OR EQUAL 350 L SERIES HEAVY DUTY HIGH OUTPUT, SLOPE-TOP BASEBOARD RADIATION WITH 16 GAUGE STEEL ONE PIECE FRONT COVER, 17 GAUGE BRACKETS. PIPE SIZE TO MATCH EXISTING. RADIATION SHALL CONTAIN A HEATING ELEMENT TO PROVIDE A MINIMUM OF 700 B.T.U./FT. WITH 170°F. HOT WATER SUPPLY TEMPERATURE, PIPE SIZE TO MATCH EXISTING. ALL COVER COMPONENTS SHALL BE FACTORY PAINTED IN NU-WHITE OVEN BAKED CROSS-LINKED POLYESTER ENAMEL.

- B EXISTING WALL MOUNTED FINNED-TUB RADIATION TO REMAIN. THE FINNED-TUBE ELEMENT MUST BE THOROUGHLY CLEANED, COVERS AND TRIM ARE TO BE REMOVED, CLEANED, PRIMED, PAINTED AND REINSTALLED (COLOR TO BE SELECTED BY ARCHITECT). SEQUENCE AS NOTED ABOVE SHALL BE THE RESPONSIBILITY OF THE MECHANICAL CONTRACTOR.
- © NEW HOT WATER BASEBOARD RADIATION SHALL BE THE SAME AS NOTED IN "BASE BID" RADIATION ABOVE, COMPLETE WITH ISOLATION VALVES, MANUAL AIR VENTS AND CONTROLS.
- (D) EXISTING RADIATION TO BE REMOVED IN IT'S ENTIRETY INCLUDING ALL ASSOCIATED PIPING, VALVES AND ACCESSORIES.
- F-10 SYMBOL INDICATES LENGTH OF RADIATION ELEMENT.

- 1. NEW RADIATION NOTED (A) SHALL BE INDIVIDUALLY CONTROLLED UTILIZING "TACO" RADIATION CONTROL VALVES.
- NEW RADIATION NOTED (C) SHALL BE INDIVIDUALLY CONTROLLED UTILIZING "TACO" ADIATION CONTROL VALVE.

ALL RADIATION TO BE EQUIPPED WITH "TACO" RADIATION CONTROL VALVES.

2. FOR EXISTING RADIATION THAT REMAINS CONTRACTOR IS TO PROVIDE UNIT PIECES TO REPLACE ISOLATION VALVES, VENT VALVES AND CONTROL VALVES ON AN AS NEEDED BASIS.

# LEGEND - M-12

- (1) NEW 8"x8" CEILING EXHAUST GRILLE WITH DAMPER, 70 C.F.M. EACH.
- (2) REMOVE EXISTING CEILING EXHAUST GRILLE AND ASSOCIATED DUCTWORK BACK TO MAIN BRANCH.
- 3 CONNECT NEW 6" DIA. EXHAUST DUCTWORK TO EXISTING AND EXTEND TO NEW EXHAUST GRILLE
- (4) EXISTING 10"x8" EXHAUST DUCTWORK ABOVE CEILING.
- (5) EXISTING EXHAUST RISER.
- 6 REMOVE EXISTING CEILING EXHAUST GRILLE AND ASSOCIATED DUCTWORK BACK TO RISER LOCATION, BLANK OFF AT EXISTING RISER AIR—TIGHT.
- 7) 7"x6" FROM BELOW AND 9"x6" UP THROUGH ROOF CURB AND TERMINATE WITH ROOF CAP.
- (8) EXTEND EXISTING 8"X8" DUCTWORK.
- (9) 4" DIA. (INSULATED) FLEX DUCTWORK, TYPICAL.
- 10 CONNECT NEW 4" DIA. DUCTWORK TO EXISTING SUPPLY DUCTWORK ABOVE CEILING AND RUN TO FAN COIL UNIT, TYPICAL.
- (11) 4" DIA. OUTSIDE AIR SCREENED INLET TYPICAL FOR (4).
- (12) CONNECT NEW FAN COIL UNIT TO EXISTING SUPPLY DUCTWORK ABOVE CEILING (NOT SHOWN).
- (13) EXISTING HOT WATER SUPPLY RISER EXTEND TO NEW PERIMETER RADIATION.
- (14) EXISTING HOT WATER RETURN RISER EXTEND TO NEW PERIMETER RADIATION.
- (15) SEE SECOND FLOOR PLAN DWG. M-10 FOR DUCTING OF CLOTHES DRYERS.
- (16) OPEN END CONDENSATE DRAIN PUMPED DISCHARGE (PD) LINE OVER JANITORS SERVICE SINK.
- (17) CONDENSATE DRAIN PUMPED DISCHARGE (PD) LINE FROM FAN COIL UNIT, TYPICAL

		FAN COIL	UNIT SC	HEDUI	E –	FOURTH	FLOOR		
SYMBOL	ROOM	DAIKIN FAN COIL UNIT MODEL	OUTDOOR UNIT	C.F.M.	O.A. C.F.M.	MOUNTING LOCATION	VOLTAGE	MCA	МОР
FUC-403	403	FXZQ024TAVJ	ACCU-5	777	150	CEILING	208-230V, 1PH	0.7	15A
FUC-404	404	FXZQ09TAVJ	ACCU-5	317	60	CEILING	208-230V, 1PH	0.3	15A
FUC-406	406	FXZQ09TAVJ	ACCU-5	317	60	CEILING	208-230V, 1PH	0.3	15A
FUC-408	408	FXZQ09TAVJ	ACCU-5	317	15	CEILING	208-230V, 1PH	0.3	15A
FUC-409	409	FXZQ09TAVJ	ACCU-4	317	20	CEILING	208-230V, 1PH	0.3	15A
FUC-411	411	FXZQ12TAVJ	ACCU-4	317	50	CEILING	208-230V, 1PH	0.4	15A
FUC-412	412	FXZQ12TAVJ	ACCU-4	317	30	CEILING	208-230V, 1PH	0.4	15A
FUC-413	413	FXZQ05TAVJ	ACCU-4	300	30	CEILING	208-230V, 1PH	0.3	15A
FUC-432	432	FXZQ05TAVJ	ACCU-4	300	7.5	CEILING	208-230V, 1PH	0.3	15A
FUC-461	461	FXZQ05TAVJ	ACCU-4	300	20	CEILING	208-230V, 1PH	0.3	15A
FUC-465	465	FXZQ05TAVJ	ACCU-4	300	30	CEILING	208-230V, 1PH	0.4	15A
FUC-415	415	FXZQ12TAVJ	ACCU-3	353	30	CEILING	208-230V, 1PH	0.3	15A
FUC-416	416	FXZQ05TAVJ	ACCU-3	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-417	417	FXZQ05TAVJ	ACCU-3	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-419	419	FXZQ05TAVJ	ACCU-3	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-420	420	FXZQ05TAVJ	ACCU-3	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-422	422	FXZQ05TAVJ	ACCU-3	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-424	424	FXZQ05TAVJ	ACCU-3	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-425	425	FXZQ05TAVJ	ACCU-3	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-440	440	FXZQ07TAVJ	ACCU-2	307	15	CEILING	208-230V, 1PH	0.3	15A
FUC-442	442	FXZQ07TAVJ	ACCU-2	307	15	CEILING	208-230V, 1PH	0.3	15A
FUC-443	443	FXZQ12TAVJ	ACCU-2	353	20	CEILING	208-230V, 1PH	0.4	15A
FUC-447	447	FXZQ12TAVJ	ACCU-2	353	20	CEILING	208-230V, 1PH	0.4	15A
FUC-449	449	FXZQ05TAVJ	ACCU-1	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-451	451	FXZQ05TAVJ	ACCU-1	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-452	452	FXZQ05TAVJ	ACCU-1	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-454	454	FXZQ05TAVJ	ACCU-1	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-455	455	FXZQ05TAVJ	ACCU-1	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-457	457	FXZQ05TAVJ	ACCU-1	300	15	CEILING	208-230V, 1PH	0.3	15A
FCU-466	466	FXZQ05TAVJ	ACCU-6	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-467	467	FXZQ05TAVJ	ACCU-6	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-470	470	FXZQ05TAVJ	ACCU-6	300	15	CEILING	208-230V, 1PH	0.3	15A
FUC-472	472	FXZQ05TAVJ	ACCU-6	300	15	CEILING	208-230V, 1PH	0.3	15A
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FAN COIL UNIT AND 02.21.20 PLUMBING FIXTURE REVISIONS

> ERIOR NEW CONS 725 PARK GEPORT, CO SMIL (FPOR

JOEL 3RIDG

**EMS JOB 5033** 

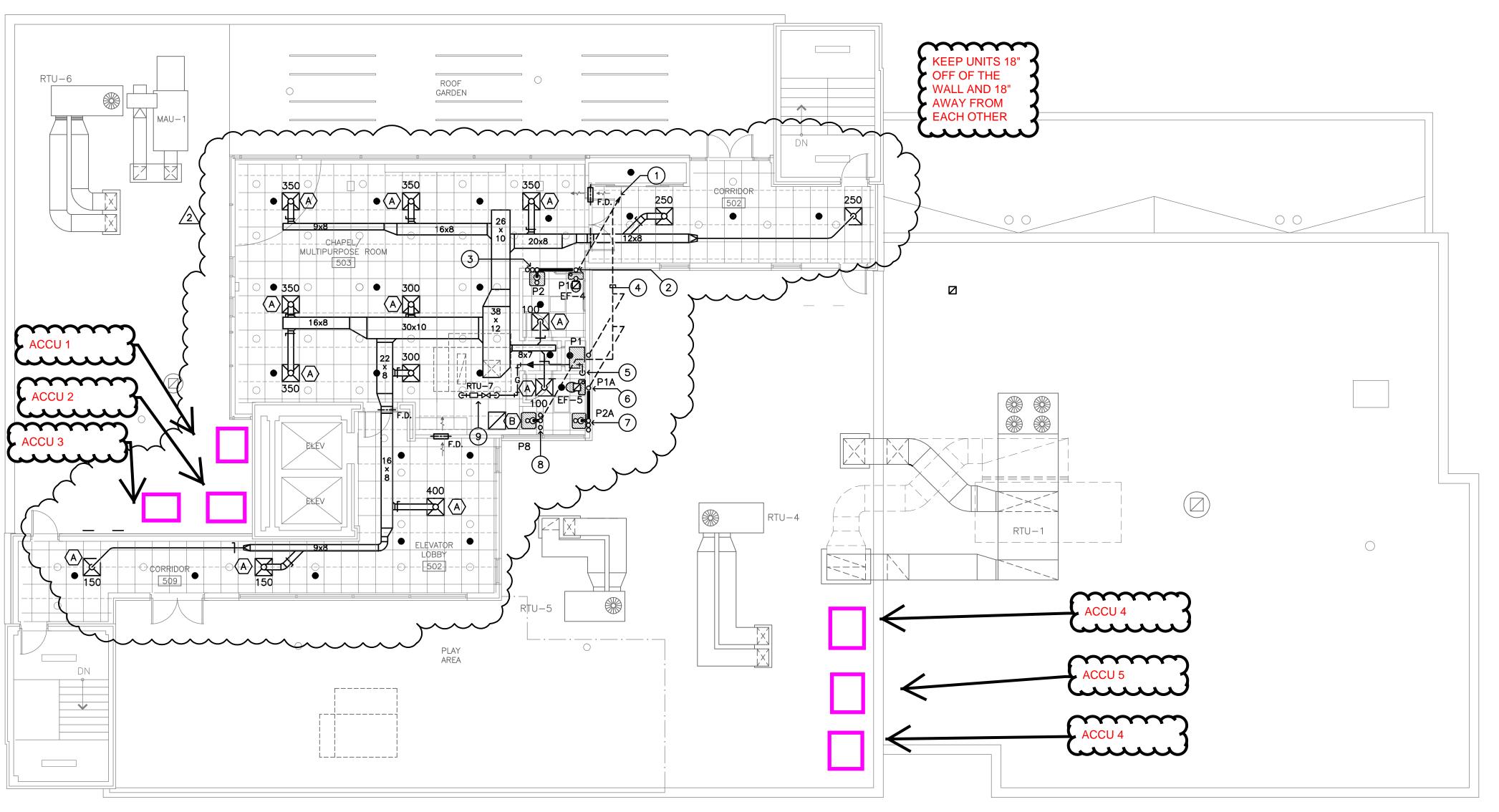
FOURTH FLOOR PLAN - HVAC

BJC 1/8"=1'-0"

04.16.2020 - CM BID

19469

05 MARCH 2020



ROOF AND FIFTH FLOOR PLAN — PLUMBING & HVAC SCALE: 1/8" = 1'-0"

SYMBOL	DAIKIN MODEL	REFRIGERANT	LOCATION	COOLING BTUH	HEATING BTUH	VOLTAGE	MCA	мор	WEIGHT LBS
ACCU-1	RXYQ144TAYDU	R-410A	ROOF MOUNTED	132,914	88,988	460V, 3PH	25.9	35	710
ACCU-2	RXYQ144TAYDU	R-410A	ROOF MOUNTED	132,914	88,988	460V, 3PH	25.9	35	710
ACCU-3	RXYQ168TAYDU	R-410A	ROOF MOUNTED	154,560	95,895	460V, 3PH	25.9	35	710
ACCU-4	RXYQ168TAYDU	R-410A	ROOF MOUNTED	154,560	95,895	460V, 3PH	25.9	35	710
ACCU-5	RXYQ168TAYDU	R-410A	ROOF MOUNTED	154,560	95,895	460V, 3PH	25.9	35	710
ACCU-6	RXYQ96TAYDU	R-410A	ROOF MOUNTED	77,589	67,589	460V, 3PH	20.6	25	554

DIFFUSER/REGISTER/GRILLE SCHEDULE												
SYMBOL	MAKE	MODEL	TYPE	FACE SIZE	NECK SIZE	OPTIONS						
A	TITUS	PSS	SQUARE SUPPLY DIFFUSER	24" × 24"	SAME AS BRANCH DUCT	BORDER TYPE 3 (LAY-IN) FLUSH W/CEILING TILE						
B	TITUS	350RL	RETURN GRILLE	24" × 24"	22" × 22"	BORDER TYPE 3 (LAY-IN) FLUSH W/CEILING TILE						

ROOFTOP UNIT SCHEDULE																							
					SUPPLY AIR FAN			GAS HEAT			DX COOLING - R410A REFRIGERANT				OUTDOOR AIR		ELECTRICAL DATA			APPROX.			
SYMBOL	MAKE	MODEL	NOMINAL TONS	ARRANGEMENT	СҒМ	E.S.P.	DRIVE/ SPEEDS	MOTOR HP	TOTAL CAPACITY OUTPUT MBH	TOTAL CAPACITY INPUT MBH	NO. OF STAGES	AFUE %	TOTAL CAPACITY NET BTUH	SENSIBLE CAPACITY NET BTUH	E.A.T. 'F EDB/EWB	AMBIENT TEMP 'F	COMPRESSOR QUALITY	OUTDOOR AIR MINIMUM CFM	OUTDOOR AIR CODE CFM	UNIT VOLTA	GE MCA	МОСР	APPROX. WEIGHT INCLUDING ACCESSORIES LBS.
RTU-7	DAIKIN	DPS010A	10	DOWNFLOW	3,500	2.0	VARIABLE	4.0	160,000	200,000	MODULATING	80	125,204	98,322	80/67	95°	2/INVERTED SCROLL	VAV MATCHES LOAD	100 PEOPLE 500	480V3PI	H 20.2	25	2313

ROOF TOP EQUIPMENT ZONES

ZONE - 1 WEST (SOUTH BLDG.)
ZONE - 2 SOUTH (SOUTH BLDG.)
ZONE - 3 EAST (SOUTH BLDG.)
ZONE - 4 INTERIOR (NORTH & SOUTH BLDG.)
ZONE - 5 EAST (NORTH BLDG.)
ZONE - 6 WEST (NORTH BLDG.)
RTU-7 5th. FLOOR

# LEGEND - M-13

- 1) 2" VENT UP AND 3" VENT THROUGH ROOF.
- 2 WATER CLOSET TANK TYPE, HANDICAP ACCESSIBLE, 1/2" COLD WATER FROM BELOW, 3" SANITARY DOWN AND 2" VENT UP.
- 3 LAVATORY WALL HUNG, HANDICAP ACCESSIBLE, 1/2" HOT AND COLD WATER FROM BELOW, 1-1/2" WASTE TO WATER CLOSET WET VENT.
- (4) RUN ABOVE SUSPENDED CEILING.
- (5) 1" GAS LINE FROM BELOW, EXTEND TO ROOF TOP UNIT #7.
- 6 WATER CLOSET TANK TYPE, 1/2" COLD WATER FROM BELOW, 3" SANITARY DOWN AND 2" VENT UP.
- 7 LAVATORY WALL HUNG, 1/2" HOT AND COLD WATER FROM BELOW, 1-1/2" WASTE TO WATER CLOSET WET VENT.
- 8 STAINLESS STEEL COUNTER SINK HANDICAP ACCESSIBLE, 1/2" HOT AND COLD WATER FROM BELOW, 2" WASTE DOWN AND 1-1/2" VENT UP.
- 9 1" GAS LINE UP THROUGH PITCH BOX AT ROOF. PROVIDE BALL VALVE, GAS PRESSURE REGULATOR (21b. INLET AND 9" W.C. OUTLET), DIRT LEG AND UNION AT CONNECTION TO ROOF TOP UNIT.
- 10 TYPICAL CHROME PENDENT "SEMI-RECESSED SPRINKLER HEAD.

# **GENERAL NOTES:**

- SEAL ALL NEW SUPPLY DUCTWORK AIRTIGHT.
- FLEXIBLE DUCTWORK MAY BE USED TO MAKE FINAL CONNECTION TO DIFFUSERS, MAXIMUM LENGTH SHALL BE 3'-0".
- PROVIDE A VOLUME DAMPER IN EACH NEW BRANCH DUCT TO EACH NEW DIFFUSER.
- ALL DUCT RUNOUTS TO INDIVIDUAL DIFFUSERS SHALL BE AS LISTED BELOW, UNLESS NOTED OTHERWISE:

TO 120 CFM 6" DIA. 125-210 CFM 8" DIA. 215-325 CFM 10" DIA.

330-470 CFM 12" DIA.

AFTER WORK IS COMPLETED, TEST AND BALANCE SUPPLY AIR SYSTEMS TO CFM VALUES INDICATED.



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BRIDGEPORT RESCUE MISSIO
PHASE II: INTERIOR RENOVATION
& NEW CONSTRUCTION
725 PARK AVENUE

**EMS JOB 5033** 

DRAWING TITLE:

ROOF AND FIFTH
FLOOR PLAN PLUMBING & HVAC

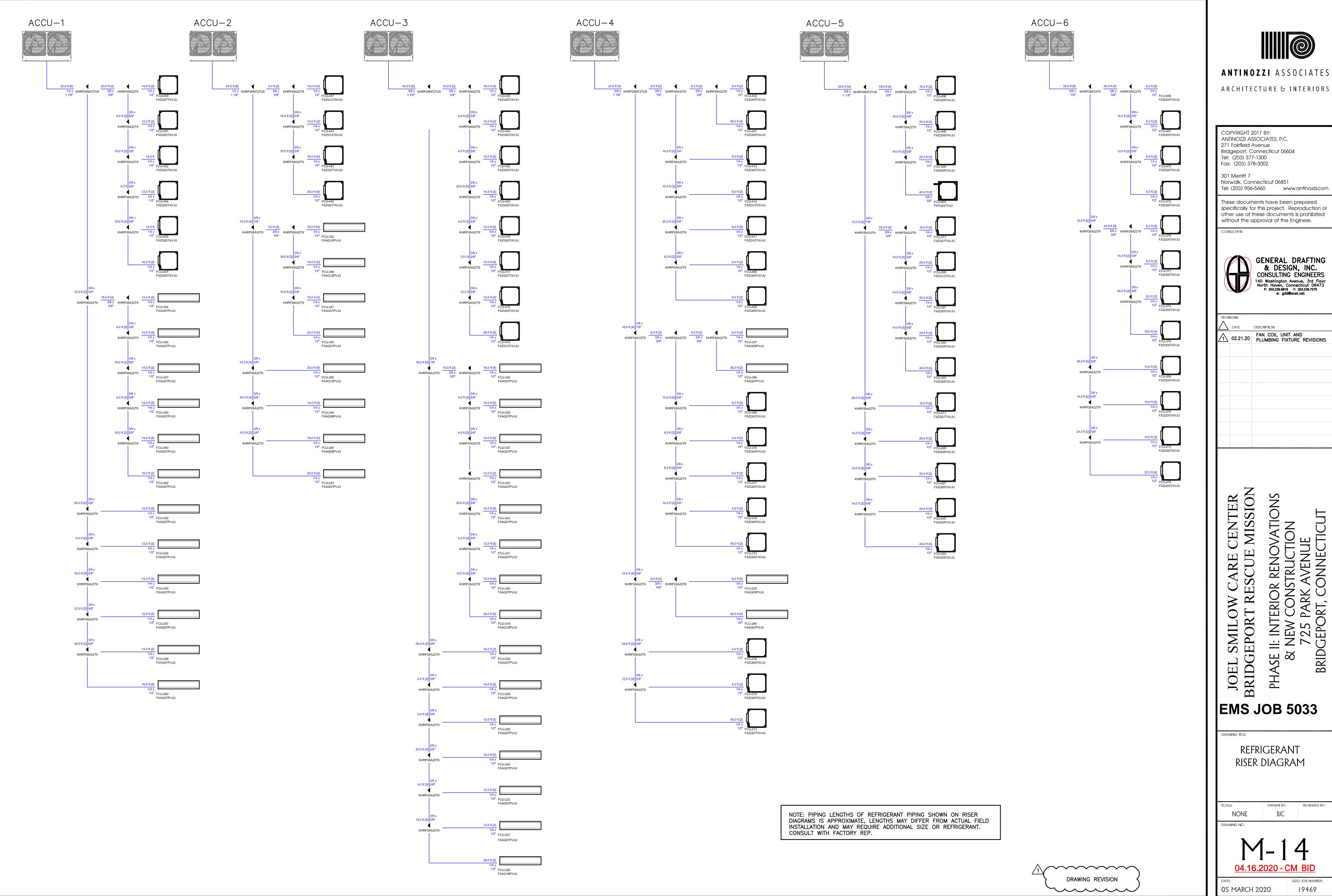
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RAWING NO.

M-13

05 MARCH 2020

GDD JOB NUMBER: 020 19469





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02.21.20 FAN COIL UNIT AND PLUMBING FIXTURE REVISIONS

GDD JOB NUMBER:

# MECHANICAL SPECIFICATIONS

#### SCOPE

THE WORK TO BE DONE UNDER THIS DIVISION OF THE SPECIFICATIONS INCLUDE THE FURNISHING OF ALL EQUIPMENT, SUPPLIES, LABOR, SUPERVISION AND ALL MATERIALS NOT SPECIFICALLY MENTIONED, READY FOR USE, PLUMBING, FIRE PROTECTION, HEATING, VENTILATION AND AIR CONDITIONING EQUIPMENT AND ASSOCIATED ITEMS. IT IS THE INTENTION OF THE SPECIFICATIONS AND DRAWINGS TO CALL FOR FINISHED WORK, TESTED AND READY FOR OPERATION. IT IS THE INTENT THAT ALL MECHANICAL WORK AND MATERIALS NECESSARY TO COMPLETE THE ENTIRE PROJECT IN ACCORDANCE WITH THE CONTRACT PLANS AND SPECIFICATIONS, WHERE SPECIFICALLY MENTIONED HERE OR NOT, SHALL BE FURNISHED. ALL WORK AND MATERIALS NECESSARY TO FULFILL THIS INTENT SHALL BE SUPPLIED UNDER THE MECHANICAL SPECIFICATIONS WITHOUT ADDITIONAL COST TO THE OWNER.

#### CODES, RULES, PERMITS AND FEES

THIS CONTRACTOR SHALL GIVE ALL NECESSARY NOTICES, OBTAIN ALL PERMITS AND PAY ALL STATE AND LOCAL TAXES. FEES AND OTHER COSTS IN CONNECTION WITH HIS WORK: FILE ALL NECESSARY PLANS, PREPARE ALL DOCUMENTS AND OBTAIN ALL NECESSARY APPROVALS OF ALL STATE AND LOCAL DEPARTMENTS HAVING JURISDICTION; OBTAIN ALL REQUIRED CERTIFICATES OF INSPECTION FOR HIS WORK AND DELIVERY OF SAME TO THE OWNER BEFORE REQUEST FOR ACCEPTANCE AND FINAL PAYMENT FOR THE WORK. THIS CONTRACTOR SHALL INCLUDE IN THE WORK, WITHOUT EXTRA COST TO THE OWNER, ANY LABOR, MATERIALS, SERVICES, APPARATUS, DRAWINGS (IN ADDITION TO CONTRACT DRAWINGS AND DOCUMENTS), IN ORDER TO COMPLY WITH ALL APPLICABLE LAWS, ORDINANCES, RULES AND REGULATIONS WHETHER OR NOT SHOWN ON THE DRAWINGS AND/OR SPECIFIED. THIS CONTRACTOR SHALL PERFORM AND FILE ALL TESTS IN ACCORDANCE WITH CURRENT REGULATIONS OF THE STATE AND LOCAL AUTHORITIES. HE SHALL FURNISH AND INSTALL SIGNS REQUIRED BY THE STATE AND LOCAL AUTHORITIES. ALL MATERIALS FURNISHED AND ALL WORK INSTALLED SHALL COMPLY WITH THE RULES AND RECOMMENDATIONS OF THE NATIONAL BOARD OF FIRE UNDERWRITERS, WITH ALL REQUIREMENTS OF LOCAL UTILITIES COMPANIES, WITH THE RECOMMENDATIONS OF THE FIRE INSURANCE RATING ORGANIZATION HAVING JURISDICTION.

#### REGULATIONS

ALL WORK SHALL BE DONE IN STRICT ACCORDANCE WITH THE CURRENT STATE OF CONNECTICUT BASIC BUILDING CODE, THE CURRENT STATE FIRE SAFETY CODE, A.D.A., U.L., NEMA, O.S.H.A., INTERNATIONAL PLUMBING CODE, INTERNATIONAL MECHANICAL CODE AND NFPA, WITH ALL REQUIREMENTS OF ALL GOVERNMENTAL DEPARTMENTS HAVING JURISDICTION. REQUIREMENTS OF THE ABOVE SHALL TAKE PRECEDENCE OVER PLANS AND SPECIFICATIONS.

#### **GUARANTEE AND SERVICE**

THE CONTRACTOR SHALL GUARANTEE ALL MATERIALS AND WORKMANSHIP FOR A PERIOD OF ONE YEAR FROM THE DATE OF ACCEPTANCE OF THE INSTALLATION. IN ADDITION, THE CONTRACTOR SHALL PROVIDE, FREE OF CHARGE, ONE YEAR'S MAINTENANCE GUARANTEE OF MAINTAINED SERVICE AND ADJUSTMENT OF ALL EQUIPMENT IN THIS CONTRACT.

#### DRAWINGS AND INTENT

DRAWINGS ARE INTENDED AS WORKING DRAWINGS FOR GENERAL LAYOUT OF THE VARIOUS ITEMS OF EQUIPMENT. HOWEVER, LAYOUT OF EQUIPMENT, ACCESSORIES, SPECIALTIES, AND PIPING SYSTEMS ARE DIAGRAMMATIC UNLESS SPECIFICALLY DIMENSIONED, AND DO NOT NECESSARILY INDICATE EVERY REQUIRED PIPE, VALVE, FITTINGS, TRAP, ELBOW, TRANSITION, OFFSETS, JUNCTION OR PULLBOX, OR SIMILAR ITEMS REQUIRED FOR A COMPLETE INSTALLATION.

#### RELATED WORK IN OTHER DIVISIONS

ALL ELECTRICAL WORK, SETTING OF ACCESS DOORS IN HUNG CEILINGS, WALL AND FURRED SPACES, FINISHED PAINTING OF PIPING AND EQUIPMENT, CUTTING AND PATCHING, CONCRETE WORK. THIS CONTRACTOR SHALL FURNISH THE GENERAL CONTRACTOR WITH THE SIZES AND LOCATIONS OF CHASES AND OPENINGS WHICH OCCUR IN WALLS, PARTITIONS, FLOORS, ETC., REQUIRED FOR THE INSTALLATION OF THE WORK CALLED FOR UNDER THIS CONTRACT, WILL BE DONE BY THE GENERAL CONTRACTOR, EXCEPT CUTTING REQUIRED FOR THE INSTALLATION OF HANGERS.

#### **MEASUREMENTS**

ALL MEASUREMENTS TAKEN AT THE BUILDING SHALL TAKE PRECEDENCE OVER SCALE DIMENSIONS. EVERY PART OF THE PLANS SHALL BE FITTED TO THE ACTUAL CONDITIONS AT THE BUILDING. IF IN CONFLICT WITH SCALE DIMENSIONS, CONTACT ARCHITECT FOR CLARIFICATION.

# PROTECTION OF FIXTURES, MATERIALS AND EQUIPMENT

CLOSE PIPE OPENINGS WITH CAPS OR PLUGS DURING INSTALLATION. TIGHTLY COVER AND PROTECT FIXTURES AND EQUIPMENT AGAINST DIRT, WATER AND CHEMICAL OR MECHANICAL INJURY. AT COMPLETION OF ALL WORK, FIXTURES, EXPOSED MATERIALS AND EQUIPMENT SHALL BE THOROUGHLY CLEANED.

# <u>DEMOLITION</u>

CONTRACTOR SHALL FURNISH ALL LABOR, MATERIALS, EQUIPMENT, ETC., REQUIRED TO COMPLETE ALL DEMOLITION WORK NECESSARY FOR THE FULL COMPLETION OF THIS CONTRACT. PROTECT ALL PARTS AND EQUIPMENT THAT ARE TO REMAIN. ASSUME FULL RESPONSIBILITY FOR DAMAGE. ALL ITEMS BEING REMOVED SHALL REMAIN THE PROPERTY OF THE OWNER UNLESS OTHERWISE INDICATED BY HIM. EQUIPMENT AND DEVICES THE OWNER DOES NOT WISH TO RETAIN SHALL BECOME THE PROPERTY OF THIS CONTRACTOR AND REMOVED FROM THE SITE. ALL MATERIAL CHOSEN TO BE RETAINED BY THE OWNER SHALL BE DELIVERED BY THE CONTRACTOR TO SUCH POINT AS DESIGNATED BY THE OWNER.

# EXAMINATION OF PREMISES - SPECIAL NOTE

NO CONSIDERATION OR ALLOWANCE WILL BE GRANTED FOR FAILURE TO VISIT SITE, OR FOR ANY ALLEGED MISUNDERSTANDING OF MATERIALS TO BE FURNISHED, OR WORK TO BE DONE. THE CONTRACTOR SHALL BE ASSUMED TO HAVE VISITED THE PREMISES AND NOTED ALL PERTINENT FACTS AND DATA INCLUDING THE CONDITIONS UNDER WHICH THE WORK MUST BE CARRIED OUT, AND NO ALLOWANCE WILL BE MADE FOR FAILURE TO HAVE DONE SO.

# SCAFFOLDING, RIGGING AND HOISTING

UNLESS OTHERWISE SPECIFIED, CONTRACTOR SHALL FURNISH ALL SCAFFOLDING, RIGGING, HOISTING AND SERVICES NECESSARY FOR ERECTION AND DELIVERY INTO THE PREMISES OF ANY EQUIPMENT AND APPARATUS FURNISHED. REMOVE SAME FROM THE PREMISES WHEN NO LONGER REQUIRED.

# <u>HOUSEKEEPING</u>

THIS CONTRACTOR SHALL BE RESPONSIBLE FOR KEEPING STOCK OF MATERIALS AND EQUIPMENT STORED ON PREMISES IN A NEAT AND ORDERLY MANNER AND, AT ALL TIMES, KEEP THE PREMISES FREE FROM ACCUMULATION OF WASTE MATERIAL OR RUBBISH CAUSED BY HIS EMPLOYEES AT WORK. HE SHALL REMOVE HIS RUBBISH AND SURPLUS MATERIALS FROM THE JOB SITE AND SHALL LEAVE THE PREMISES AND HIS WORK IN A CLEAN AND PERFECT CONDITION.

# QUIET OPERATION

ALL WORK SHALL OPERATE UNDER ALL CONDITIONS OF LOAD WITHOUT ANY SOUND OR VIBRATION WHICH IS OBJECTIONABLE IN THE OPINION OF THE ENGINEER. IN CASE OF MOVING MACHINERY, SOUND OR VIBRATION NOTICEABLE OUTSIDE OF ROOM IN WHICH IT IS INSTALLED, OR ANNOYING INSIDE ITS OWN ROOM, WILL BE CONSIDERED OBJECTIONABLE BY THE ENGINEER AND SHALL BE REMEDIED IN APPROVED MANNER BY CONTRACTOR AT HIS EXPENSE.

# SHOP DRAWINGS

PRIOR TO DELIVERY TO JOB SITE, BUT SUFFICIENTLY IN ADVANCE OF REQUIREMENTS NECESSARY TO ALLOW ENGINEER AMPLE TIME FOR REVIEW, CONTRACTOR SHALL SUBMIT FOR APPROVAL, SEVEN (7) COPIES EACH OF SHOP DRAWINGS OF ALL EQUIPMENT. ALSO SHEET METAL FABRICATION DRAWINGS DRAWN TO A SCALE OF 1/4" TO THE FOOT OR LARGER.

# EQUIPMENT DEVIATION

THE PLANS AND/OR SPECIFICATIONS INDICATE THE NAME, MODEL NUMBER OR TYPE OF EQUIPMENT OR MATERIALS SPECIFIED. SHOULD THE BIDDER DESIRE TO USE EQUIPMENT OR MATERIALS OR A MAKE OTHER THAN THOSE SPECIFIED OR SHOWN, HE SHALL ATTACH A RIDER TO THE BID FORM LISTING THE DEDUCTIONS AND/OR ADDITIONS TO HIS BASE BID, TOGETHER WITH THE MANUFACTURER'S NAME AND MODEL NUMBERS OF THE EQUIPMENT OR MATERIALS HE PROPOSED TO FURNISH AS "SUBSTITUTES". IF NO SUBSTITUTE INFORMATION IS FURNISHED, IT WILL BE EXPRESSLY UNDERSTOOD THAT ALL EQUIPMENT AND MATERIALS NAMED WILL BE FURNISHED IN FULL ACCORDANCE WITH THE PLANS AND/OR SPECIFICATIONS.

#### OWNER'S INSTRUCTIONS AND SYSTEM OPERATION

AT THE TIME OF THE JOB'S ACCEPTANCE BY OWNER, CONTRACTOR SHALL FURNISH ONE COMPLETE SET OF APPROVED CERTIFIED DRAWINGS TO THE OWNER. IN ADDITION, CONTRACTOR SHALL FURNISH MAINTENANCE AND OPERATING INSTRUCTIONS FOR ALL EQUIPMENT. THESE INSTRUCTIONS SHALL BE WRITTEN IN LAYMAN'S LANGUAGE AND SHALL BE INSERTED IN VINYL—COVERED THREE—RING LOOSE LEAF BINDER. THIS INFORMATION IN BINDER SHALL BE FIRST SENT TO AND APPROVED BY THE ARCHITECT/ENGINEER BEFORE TURNING OVER TO OWNER.

#### CI EEVEC

PROVIDE NO. 22 USSG GALVANIZED IRON SLEEVES EXTENDED THROUGH CONSTRUCTION IN CEILINGS, WALLS AND PARTITIONS. FOR INSULATED PIPING SIZED TO ALLOW INSULATION TO PASS THROUGH SLEEVE, PROVIDE 1/2 INCH SPACE BETWEEN PIPE AND/OR INSULATION AND SLEEVE. SEAL ALL SLEEVES IN ACCORDANCE WITH BUILDING CODE AND FIRE DEPARTMENT REQUIREMENTS.

#### **EXPANSION ANCHORS**

SUSPEND HANGERS FROM EXPANSION ANCHORS IN SOLID CONCRETE SLABS SIMILAR TO HILTI HDI OR FROM EXISTING STRUCTURAL STEEL WITH BEAM CLAMPS SIMILAR TO GRINNELL NO. 61, 87, 131 AND 225. PROVIDE HANGER IN PLACE WITH DOUBLE NUTS. PROVIDE PROTECTION SHIELDS ON INSULATED PIPING. INSTALL HANGERS OVER INSULATION AND SHIELDS.

#### DISSIMILAR METALS

PROVIDE BRASS OR COPPER WATER PIPING CONNECTED TO GALVANIZED PIPE AND FOR ANY OTHER DISSIMILAR METALS WITH DIELECTRIC FITTINGS.

#### TIC WATER DIDING

ALL WATER PIPING WITHIN THE BUILDING SHALL BE TYPE "L" COPPER TUBING WITH SWEAT TYPE WROUGHT FITTINGS, AND ALL JOINTS SHALL BE MADE WITH 95-5 SOLDER OR STAY-SAFE BRIDGET LEAD-FREE SOLDER. PROVIDE AIR CUSHIONS OR ZURN-SHOKTROL AT EACH GROUP OF FIXTURES AS INDICATED OR REQUIRED BY GOOD PRACTICE. PROVIDE SECTION CUTOFF VALVES ON ALL MAIN BRANCHES. PITCH AND VALVE ALL WATER PIPING FOR CONVENIENT DRAINAGE. ALL PIPES SHALL BE REAMED TO FULL AREA BEFORE INSTALLATION AND BLOWN CLEAN OF CHIPS AND DIRT. PIPING SHALL BE CONCEALED IN FURRED SPACE OF OCCUPIED AREAS OR CHASES WHEREVER CONSTRUCTION PERMITS. CONTRACTOR SHALL OBTAIN PERMISSION OF THE ARCHITECT TO RUN EXPOSED PIPES NOT SPECIFICALLY SHOWN ON THE DRAWINGS AS EXPOSED. WHERE HORIZONTAL BRANCH PIPE MAINS, BRANCHES, OR RISERS ARE EXPOSED IN FINISHED AREAS, THEY SHALL BE FITTED WITH A TWO PIECE FLOOR AND CEILING PLATE HAVING A DULL SATIN CHROME PLATE FINISH.

#### INSULATION

INSULATE ALL NEW HOT AND COLD WATER ABOVE GRADE WITH 1" THICK HEAVY DENSITY FIBERGLASS 25 ASJ WITH VAPOR BARRIER AND LAP ADHESIVE JACKET. INSULATION ON FITTINGS SHALL BE FIBERGLASS WITH PRE-MOLDED JACKET.

#### INTERIOR WATER VALVES

VALVES SHALL BE BRONZE BALL TYPE, 2 PIECE, FULL PORT APOLLO 3 OR EQUAL.

#### PROTECTION OF POTABLE WATER SUPPLY

PROTECT POTABLE WATER SUPPLIES AGAINST BACKFLOW, BACK-SIPHONAGE, CROSS CONNECTION, AND OTHER UNSANITARY CONDITIONS. DO NOT DIRECTLY CONNECT POTABLE WATER TO, OR RUN WITHIN, ANY PIPING OR DEVICE CONTAINING OR CONVEYING SEWAGE WASTES, OR OTHER MATERIALS HAZARDOUS TO HEALTH AND SAFETY. EQUIP PLUMBING FIXTURE SUPPLIES, OTHER THAN "OVER-RIM" TYPE, WITH APPROVED VACUUM BREAKERS OR AIR GAP FITTINGS. SUPPLIES EQUIPPED FOR HOSE CONNECTION MUST HAVE INTEGRAL VACUUM BREAKERS.

#### DISINFECTION OF POTABLE WATER PIPING

COMPLETE AND EFFECTIVE DISINFECTION OF POTABLE WATER PIPING SYSTEMS AFTER TESTING AND ACCEPTANCE. DISINFECT AFTER FLUSHING WITH CLEAR WATER BY FILLING ENTIRE SYSTEM OR ANY PART THEREOF WITH WATER SOLUTION CONTAINING AT LEAST 50 PARTS PER MILLION OF AVAILABLE CHLORINE. ALLOW SOLUTION TO STAND IN SYSTEM AT LEAST 24 HOURS BEFORE FLUSHING OUT WITH CLEAN POTABLE WATER. IN LIEU OF ABOVE, SWAB WATER CONTACTING SURFACES WITH SOLUTION CONTAINING AT LEAST 200 PARTS PER MILLION OF AVAILABLE CHLORINE. ALLOW SOLUTION TO STAND IN SYSTEM FOR AT LEAST THREE HOURS BEFORE FLUSHING OUT WITH CLEAN POTABLE WATER.

# SOIL, WASTE, VENT AND STORM WATER PIPING

SHALL BE NO-HUB CAST IRON WITH 4 CLAMP FITTINGS. OR D.W.V. COPPER WITH SOLDER JOINTS ON 2" AND SMALLER PIPING. VENT PIPING CAN BE SCH.40 P.V.C. WITH SOLVENT CEMENT JOINTS. FITTINGS ON SOIL AND WASTE LINES SHALL BE DRAINAGE PATTERN. P.V.C. PIPING CAN NOT BE USED IN PLENUM CEILINGS. EXPOSED COUNTER SINK WASTE PIPING SHALL BE CHROME PLATED BRASS. RUN ALL SOIL, WASTE AND VENT PIPING SHOWN OR REQUIRED BY LOCAL CODE. PIPING SHOWN IS MINIMUM AND IN ACCORDANCE WITH STATE AND FEDERAL CODES. IF LOCAL CODES REQUIRE ADDITIONAL VENTING OR LARGER SIZES, SAME SHALL TAKE PRECEDENCE. MAKE ALL CONNECTIONS THROUGH APPROVED TRAPS. EACH TRAP TO BE VENTED, EITHER BY CIRCUIT LOOP OR BY INDIVIDUAL VENT, AS REQUIRED, BUT NOT LESS THAN SHOWN OR AS REQUIRED BY LOCAL CODE. CLEANOUTS SHALL BE INSTALLED AT BASE OF ALL STACKS, AT ALL CHANGES OF DIRECTION, AND IN LONG LINES, IF NECESSARY, TO PROVIDE MEANS OF CLEANING LINES AT MAXIMUM 50 FT. INTERVALS. PITCH HORIZONTAL PIPING 1/4" PER FOOT UNLESS NOTED OTHERWISE ON PLANS.

# TESTS

THE CONTRACTOR SHALL, AT HIS OWN EXPENSE, DURING THE PROGRESS OF THE WORK OR UPON ITS COMPLETION AS ORDERED, MAKE SUCH TESTS OF HIS WORK AS ARE HEREIN SPECIFIED OR AS ARE REQUIRED BY AND IN THE PRESENCE OF THE PLUMBING INSPECTOR. IF SO DIRECTED, TESTS SHALL BE MADE OF SECTIONS FOR THE WORK SO AS NOT TO DELAY THE WORK OR OTHER TRADES. THE CONTRACTOR SHALL PROVIDE ALL APPARATUS, TEMPORARY WORK OR ANY OTHER REQUIREMENTS NECESSARY FOR SUCH TESTS. ANY DEFECTS OR DEFICIENCIES DISCOVERED AS A RESULT OF TESTS SHALL BE IMMEDIATELY REPAIRED AND TESTS SHALL BE REPEATED UNTIL THE TEST REQUIREMENTS ARE FULLY COMPLIED WITH. THE DRAINAGE AND VENT SYSTEMS SHALL BE TESTED IN SECTIONS WHEN REQUIRED TO PERMIT GENERAL CONSTRUCTION WORKS TO PROCEED. THE PIPING SHALL BE TESTED UNDER A HYDROSTATIC PRESSURE CORRESPONDING TO A HEAD OF AT LEAST 10 FEET OF WATER FOR 2 HOURS. ALL WATER PIPING SHALL BE TESTED TO A HYDROSTATIC PRESSURE OF 150 POUNDS PER SQUARE INCH. PRESSURE SHALL BE MAINTAINED WITHOUT PUMPING FOR TWO HOURS.

# HANGER AND SUPPORTING

HANGING AND SUPPORTING — PIPING SHALL NOT BE SUPPORTED BY OTHER PIPING, BUT SHALL BE SUPPORTED WITH COPPER PIPE HANGERS SUITABLE FOR THE SIZE OF PIPE AND PROPER STRENGTH AND QUALITY AT PROPER INTERVALS SO THAT PIPING CANNOT BE MOVED ACCIDENTALLY FROM THE INSTALLED POSITION AS FOLLOWS: PROVIDE COPPER CLEVIS HANGERS

1/2 INCH PIPE OR TUBING — 6 FEET
3/4 INCH OR 1 INCH PIPE OR TUBING — 8 FEET
1-1/4 INCH OR LARGER (HORIZONTAL) — 10 FEET

# 1-1/4 INCH OR LARGER (VERTICAL) - EVERY FLOOR LEVEL

# SEISMIC RESTRAINTS

SEISMIC RESTRAINTS DESIGNED AND CONSTRUCTED FOR LATERAL FORCES IN ANY DIRECTION SHALL BE PROVIDED FOR ALL MECHANICAL EQUIPMENT IN ACCORDANCE WITH SECTION 1624 (2003 IBC PORTION OF THE C.S.B.C.) MECHANICAL COMPONENT.

# FLOOR DRAINS

FLOOR DRAINS SHALL BE ZURN #ZN-415 WITH B STRAINER. ALL FLOOR DRAINS TO HAVE IN LINE "SURE SEAL" FLOOR DRAIN TRAP SEALER.

#### L FANOLITO

BRING CLEANOUTS TO FINISHED FLOOR WHERE SHOWN FOR VINYL FLOORING INCLUDING UNDER CARPETING, CLEANOUTS SHALL BE "ZURN" SERIES #ZN-1405-6. IN CERAMIC TILE FLOORS CLEANOUTS SHALL BE #ZN-1455-4CT. FOR CONCRETE FLOORS CLEANOUTS SHALL BE #ZN-1405-2-VP. IN HEAVY TRAFFIC AREAS # Z-1400-HD.

#### FIXTURES UNDER THIS SECTION

INCLUDED SHALL BE ALL PLUMBING FIXTURES, ALL TRIM ITEMS AND ALL ACCESSORY ITEMS SHOWN OR REQUIRED FOR A COMPLETE PLUMBING INSTALLATION. "KOHLER" NUMBERS ARE SPECIFIED UNLESS OTHERWISE NOTED. THE FIXTURES SHALL BE COMPLETE\_WITH CHROME PLATING ON EXPOSED IRON OR PIPE, TRAPS, ANCHOR BOLTS, HANGERS, STRAINERS, LOOSE KEY STOPS VALVES AT EVERY FIXTURE, FAUCET AND OTHER INCIDENTAL ITEMS FURNISHED AS STANDARD. THE PLUMBING CONTRACTOR SHALL FURNISH AND INSTALL ALL FIXTURES IN ACCORDANCE WITH THE DRAWINGS AND THE SCHEDULE.

#### **INSPECTION**

CONFORM LOCATION AND SIZE OF FIXTURES AND OPENINGS BEFORE ROUGH—IN AND INSTALLATION. VERIFY ADJACENT CONSTRUCTION IS READY TO RECEIVE ROUGH—IN WORK OF THIS SECTION.

#### INSTALLATION

INSTALL EACH FIXTURE WITH TRAP, EASILY REMOVABLE FOR SERVICING AND CLEANING. PROVIDE CHROME PLATED RIGID OR FLEXIBLE SUPPLIES TO FIXTURES WITH LOOSE KEY STOPS REDUCERS, AND ESCUTCHEONS. INSTALL COMPONENTS LEVEL AND PLUMB.

#### CLEANING AND ADJUSTING

AS DIRECTED, CLEAN FIXTURES, EQUIPMENT, PIPING AND OTHER EXPOSED WORK. DO CLEANING WORK IN STAGES IF SO ORDERED BY ARCHITECT TO FACILITATE WORK OF OTHERS. SHOW TRAPS, WASTES AND SUPPLIES FREE AND UNOBSTRUCTED. PLATED, POLISHED, BRONZED, OR PAINTED WORK, BRIGHT AND CLEAN. FLUSH OUT PIPING AFTER INSTALLATION. ADJUST VALVES, FAUCETS, AUTOMATIC CONTROL DEVICES FOR PROPER AND QUIET OPERATION.

#### INSIDE WORK - FIRE PROTECTION

THIS PROJECT IS A RENOVATION. FURNISH AND INSTALL ALL MAINS AND BRANCH PIPING NECESSARY TO SUPPLY THE TOTAL NUMBER OF APPROVED AUTOMATIC SPRINKLER HEADS AS SHOWN OR REQUIRED. THE ABOVE LISTING SHALL BE TAKEN AS A GENERAL OUTLINE ONLY, AND NOT AS A COMPLETE TABULATION OR DESCRIPTION OF ALL THE WORK INCLUDED AND NOT IN ANY RESPECT LIMITING THE WORK TO BE DONE UNDER THIS DIVISION OF THE SPECIFICATIONS.

#### PIPE AND FITTINGS

ALL PIPES USED FOR THE SPRINKLER SYSTEM SHALL BE NATIONAL TUBE COMPANY OR EQUAL, THE BEST GRADE STEEL WITH CLEAN CUT THREADS OR GROOVED ENDS FOR VICTAULIC FITTINGS. ALL FITTINGS SHALL BE THE BEST GRADE CAST IRON SCREWED OR VICTAULIC SUITABLE FOR WORKING PRESSURE OF 175#. IN JOINING PIPE AND FITTINGS, CARE SHOULD BE TAKEN THAT PIPES DO NOT EXTEND INTO FITTINGS TO REDUCE THE WATERWAY.

#### HANGERS

ALL HANGERS TO BE OF APPROVED TYPE, METAL PIPE RINGS, RODS AND INSERTS, ONE HANGER FOR EACH LENGTH OF PIPE BETWEEN SPRINKLER HEADS ON BRANCH LINES AND ONE HANGER FOR AT LEAST 12 FEET OF PIPE ON MAINS.

#### <u>LUSHING</u>

PROVISION SHOULD BE MADE FOR FLUSHING SYSTEM BY INSTALLING 2"X4" NIPPLE AND CAP AT END OF EACH CROSS MAIN.

#### TEST

TEST ALL PIPING HYDROSTATICALLY AT NOT LESS THAN 200# PER SQUARE INCH PRESSURE FOR TWO HOURS AND ALL DEFECTIVE MATERIAL SHALL BE REPLACED. BEFORE MAKING FINAL APPROVAL, THE SUBCONTRACTOR SHOULD PRODUCE A WRITTEN STATEMENT, SIGNED BY A REPRESENTATIVE OF THE OWNER'S UNDERWRITER, THAT THE WORK HAS BEEN COMPLETED AND TESTED IN ACCORDANCE WITH APPROVED SPECIFICATIONS AND PLANS.

# AUXILIARY STEEL

ALL AUXILIARY STEEL NECESSARY TO ASSURE PROPER HANGING TO BE SUPPLIED BY THIS CONTRACTOR.

# AUXILIARY DRAINS

PROVIDE SIZE NOTED DRAIN VALVES AT LOW POINTS OF MAINS AND DRAIN AS INDICATED OR REQUIRED.

# SPRINKLER HEADS

SPRINKLER HEADS SHALL BE PENDENT CHROME SEMI-RECESSED. HEADS SHALL BE AS MANUFACTURED BY VIKING, GRINNELL OR STAR. CONTRACTOR SHALL INCLUDE IN HIS BID 100 NEW CHROME ESCUTCHEONS.

# QUOTATIONS

SYSTEM AS SHOWN IS FOR GENERAL GUIDANCE PURPOSES ONLY, I.E., AVOIDANCE OF CONFLICT WITH OTHER TRADES, ETC. SUBCONTRACTOR SHALL GUARANTEE THE INSTALLATION OF A COMPLETELY AUTOMATIC SYSTEM INCLUDING ALL NECESSARY ACCESSORIES FOR ONE YEAR FROM DATE OF ACCEPTANCE BY OWNER. INSTALLATION SHALL BE IN STRICT COMPLIANCE WITH INSURANCE COMPANY REQUIREMENTS AND SHALL BE ACCEPTED AND APPROVED BY SAID COMPANY. FOREGOING REQUIREMENTS MUST BE INCLUDED IN BID SUBMITTED.

# REGULATIONS

ALL DEVICES, EQUIPMENT AND WORKMANSHIP SHALL BE IN STRICT ACCORDANCE WITH OWNER'S RATING ASSOCIATION STANDARDS AND REGULATIONS OF N.F.P.A. #13, "SPRINKLER SYSTEMS".

# DESIGN CRITERIA-WET SYSTEM

A STANDARD INSTALLATION OF AUTOMATIC SPRINKLERS ARRANGED AS A WET PIPE SYSTEM IS REQUIRED. THE SYSTEM SHALL BE INSTALLED AS A LIGHT HAZARD OCCUPANCY. ALLOWANCE FOR INSIDE AND OUTSIDE HOSE TO BE INCLUDED.

# DUCT INSTALLATION

SIZES AND APPROXIMATE LOCATION OF ALL DUCTS ARE SHOWN ON THE DRAWINGS. CHECK CAREFULLY WITH THE ARCHITECTURAL DRAWINGS AND DRAWINGS SHOWING WORK OF OTHER TRADES TO MAKE SURE THAT THERE WILL BE NO CONFLICT BETWEEN THESE TRADES AND THE DUCTS. DUCTS SHALL BE OFFSET AS REQUIRED TO CLEAR STRUCTURAL MEMBERS, AND, IF NECESSARY, TO ALTER DIMENSIONS OF THE DUCT. THIS MAY BE DONE PROVIDED THE CROSS—SECTIONAL AREA IS IN NO CASE REDUCED

# SHEET METAL DUCTWORK

ALL SUPPLY AIR DUCTWORK DOWNSTREAM OF VAV BOXES SHALL BE CONSTRUCTED OF #1 QUALITY FIRST SHEETS OF OF GALVANIZED STEEL FREE OF CRACKS OR BLEMISHES. WHEN PITTSBURGING OR SNAP LOCKING A JOINT, THE GALVANIZING SHALL NOT BE CHIPPED OFF. ALL JOINTS SHALL BE SEALED AIRTIGHT. ALL PARTS OF THE SHEET METAL DUCT SYSTEM SHALL BE CONSTRUCTED AND INSTALLED IN STRICT ACCORDANCE WITH THE FIRST EDITION 1985 FOR PRESSURES 2 IN W.G. MAXIMUM STATIC PRESSURE AS OUTLINED AND DETAILED BY SMACNA, APRIL, 1986. FLEXIBLE DUCT MAY BE USED TO CONNECT RIGID DUCTWORK TO SUPPLY DIFFUSERS. DUCT SHALL BE SMACNA FORM 'M-I' INSULATED METALLIC. FLEXIBLE DUCT SHALL NOT EXCEED 3'-0" IN LENGTH. IF LONGER BRANCH DUCT IS REQUIRED, CONTRACTOR SHALL EXTEND GALVANIZED SHEET METAL TO A POINT WITHIN 3'-0" (MAX.) OF DIFFUSER.

#### DUCT INSULATION - INTERIOR

COVER ALL NEW CONCEALED SUPPLY DUCTWORK WITH 2" FIBERGLASS DUCT WRAP EQUAL TO MANVILLE R-SERIES MICROLITE WITH F.R.G. VAPOR BARRIER.

#### VOLUME DAMPERS

SINGLE BLADE OR OPPOSED BLADE MULTI-LOUVER TYPE AS DETAILED IN SMACNA STANDARDS, FIGURES 2-11 AND 2-12. PROVIDE END BEARING FOR ALL DAMPERS. QUADRANT OR OTHER OPERATOR FOR EXTERNALLY INSULATED DUCT SHALL HAVE STAND-OFF MOUNT SO OPERATION IS CLEAR OF THE INSULATION. PROVIDE VOLUME DAMPER IN DUCTWORK FOR EACH SUPPLY DIFFUSER.

#### SEISMIC RESTRAINT FOR DUCTWORK

PROVIDE REQUIRED BRACING MATERIAL. DUCTWORK SHALL BE SUPPORTED AND BRACED TO RESIST ALL DIRECTIONAL (TRANSVERSE, LONGITUDINAL AND VERTICAL) FORCES EQUAL TO 10 PERCENT OF THE WEIGHT OF THE DUCT SYSTEM.

#### FLEXIBLE CONNECTIONS

SHALL BE 29 OZ. NEOPRENE COATED FIBERGLASS, 6" WIDE. BURNING PROPERTIES SHALL CONFORM TO NFPA 90A. FASTEN TO DUCTWORK PER MANUFACTURER'S RECOMMENDATIONS. FABRIC SHALL NOT BE STRESSED OTHER THAN BY AIR PRESSURE, ALLOW AT LEAST ONE INCH SLACK TO INSURE THAT NO VIBRATION IS TRANSMITTED.

#### REFRIGERANT PIPING

REFRIGERANT PIPING SHALL BE COPPER TUBING WITH SIZES, VALVES, ETC. AS REQUIRED BY EQUIPMENT MANUFACTURER. COVER PIPING WITH 3/4" THICK ARMAFLEX PIPE COVERING, COAT INSULATION ON EXTERIOR PIPING WITH UV RETARDANT PAINT. REFRIGERANT LINE KITS FACTORY CLEANED, DRIED, PRESSURIZED AND SEALED.

#### TEST AND BALANCE

COMPLETELY TEST AND BALANCE ALL SUPPLY AIR, RETURN AIR, OUTSIDE AIR AND EXHAUST AIR SYSTEMS AND HOT WATER HEATING SYSTEMS AND PROVE THE CAPACITIES OF THE SYSTEM AND THE SYSTEM COMPONENTS. SUBMIT RESULTS TO ENGINEER FOR APPROVAL. PROVIDE SINGLE LINE DRAWINGS OF SYSTEM WITH LOCATIONS AND CAPACITIES OF ALL DIFFUSERS AND EQUIPMENT. BALANCING SHALL BE PERFORMED BY AN INDEPENDENT AABC OR NEBB MEMBER.

#### PIPE - HEATING HOT WATER

HOT WATER SUPPLY AND RETURN PIPING SHALL BE TYPE L COPPER TUBING WITH SWEAT FITTINGS MADE UP WITH 95-5 SOLDER OR STANDARD WEIGHT, SCHEDULE 40, OPEN HEARTH STEEL, NATIONAL OR EQUAL. FITTINGS FOR STEEL PIPE SHALL BE AS FOLLOWS: GENERALLY, BUTT WELDED FITTINGS OVER TWO INCHES SHALL BE USED AND EITHER SOCKET-WELD OR SCREWED FOR TWO INCHES AND UNDER. WELDING FITTINGS SHALL BE STANDARD FORGED STEEL WITH CHAMFERED ENDS. ALL BRANCHES SHALL BE WELDED WITH EITHER WELDOLETE OR TEES. THROUGHOUT FOR STEEL PIPE, ALL SCREWED FITTINGS, OR VICTAULIC FITTINGS WITH GRADE "E" GASKETS AND ROLL GROOVED STEEL PIPE.

#### PIPE INSULATION - HEATING HOT WATER

SHALL BE MANVILLE MICRO-LOK HP OR EQUAL. INSULATION THICKNESS SHALL BE 1.5" FOR LESS THAN 1.5" PIPE SIZE, AND 2" FOR 1-1/2" OR GREATER PIPE SIZE. PROVIDE ZESTON COVERS ON ALL FITTINGS.

#### VALVES - HEATING HOT WATER

VALVES SHALL BE BALL TYPE, FULL PORT, JAMESBURY CLINCHER OR APOLLO TYPE. VALVES LARGER THAN 3" SHALL BE GATE TYPE.

#### BALANCING VALVES - HEATING HOT WATER

BALANCING VALVES SHALL BE B&G CIRCUIT SETTER.

# DISSIMILAR METALS

WHEREVER COPPER OR BRASS ALLOY IS CONNECTED TO STEEL OR GALVANIZED METAL, THE TWO SHALL BE SEPARATED WITH AN DIELECTRIC CONNECTION FITTING.

# PIPING IDENTIFICATION AND FLOW DIRECTION SLEEVES

PROVIDE AND INSTALL NEW PIPING IDENTIFICATION AND FLOW DIRECTION SLEEVES, SETON NAMEPLATE SETMARK SNAP-AROUND PIPE MARKERS, FOR ALL NEW PIPING IN MECHANICAL ROOM. NUMBER OF SLEEVES REQUIRED SHALL BE DETERMINED IN FIELD.

# CLEANING/FLUSHING EXISTING HOT WATER SYSTEM

CONTRACTOR MUST COMPLETELY FLUSH ALL ZONES OF THE EXISTING HEATING SYSTEM. SYSTEM MUST BE FLUSHED UNTIL WATER RUNS CLEAR OF ANY DEBRIS A CLEANER MAY BE NECESSARY TO ENSURE ALL SEDIMENT HAS BEEN

# GENERAL NOTES

REMOVED FROM THE SYSTEM.

- LOCATIONS OF EXISTING PIPING AND EQUIPMENT AS SHOWN ON PLANS ARE TAKEN FROM THE BEST AVAILABLE FIELD OBSERVATIONS. FROM BUILDING TO BUILDING, EXACT LOCATIONS AND MAKES OF EQUIPMENT, PIPING AND PIPING ARRANGEMENTS MAY VARY FROM THOSE SHOWN, VERIFY EXACT LOCATIONS IN FIELD BEFORE BEGINNING ANY WORK, MODIFY PIPING ARRANGEMENTS AS REQUIRED FOR VARIANCES ENCOUNTERED. REPORT TO ENGINEER ANY DISCREPANCIES THAT MAY HAVE AN IMPACT TO THE INSTALLATION THE NEW SYSTEM. REMOVE ALL EXISTING PIPING NOT BEING REUSED, WHETHER OR NOT SHOWN ON PLANS. ALL EXISTING PIPING AND EQUIPMENT TO BE REMOVED AND DISPOSED OF SHALL BE DONE IN STRICT ACCORDANCE WITH ALL STATE AND FEDERAL CODES AND REQUIREMENTS.
- BEFORE SUBMITTING A BID, EACH CONTRACTOR SHALL VISIT THE SITE AND BECOME THOROUGHLY FAMILIAR
  WITH ALL EXISTING CONDITIONS UNDER WHICH HIS WORK WILL BE INSTALLED. EACH CONTRACT INCLUDES ALL
  NECESSARY OFFSET, TRANSITIONS AND MODIFICATIONS REQUIRED TO INSTALL ALL NEW EQUIPMENT. ALSO
  INCLUDED SHALL BE ANY MODIFICATIONS NECESSARY TO EXISTING, PIPING OR SYSTEMS FOR INSTALLATION OF
  NEW EQUIPMENT BY THIS OR ANY OTHER TRADE. ALL NEW EQUIPMENT AND SYSTEMS SHALL BE FULLY
  OPERATIONAL UNDER THIS CONTRACT BEFORE THE JOB IS CONSIDERED COMPLETE. EACH CONTRACTOR SHALL
  BE HELD RESPONSIBLE FOR ANY ASSUMPTIONS HE MAKES, ANY OMISSIONS OR ERRORS HE MAKES, AS A
  RESULT OF HIS FAILURE TO COORDINATE WITH THE EXISTING CONDITIONS AND THE CONTRACT DOCUMENTS OF
  ALL TRADES.
- NEW GAS FIRED BOILERS AND WATER HEATERS MUST BE MOUNTED DEAD LEVEL. NEW WATER HEATERS SHALL BE MOUNTED ON 4" HIGH SOLID CONCRETE BLOCKS, ADJUST LEVELING LEGS AS REQUIRED. SAFE OFF OPENING AROUND VENT PIPING WITH NEW SHEET METAL AS REQUIRED.
- CONNECT NEW COLD WATER MAKE—UP PIPING FOR NEW BOILER TO EXISTING DOMESTIC COLD WATER. RUN AND CONNECT NEW PIPING BETWEEN NEW AIR SEPARATOR AND EXISTING EXPANSION TANK. PROVIDE AND INSTALL INLINE A NEW BOILER FILL AND MAKE—UP DUAL CONTROL. FEED WATER REGULATOR AND RELIEF VALVE AND BACKFLOW PREVENTER WITH INLET AND OUTLET VALVES. SEE PIPING DETAIL.
- DISCONNECT EXISTING GAS PIPING FROM BOILERS AND WATER HEATERS. MODIFY EXISTING GAS PIPING AS REQUIRED AND PIPE TO NEW BOILERS AND WATER HEATERS. AT EACH PIECE OF EQUIPMENT PROVIDE AND INSTALL NEW GAS REGULATORS VENT LINES, BALL VALVE UNION AND DIRT LEG,





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