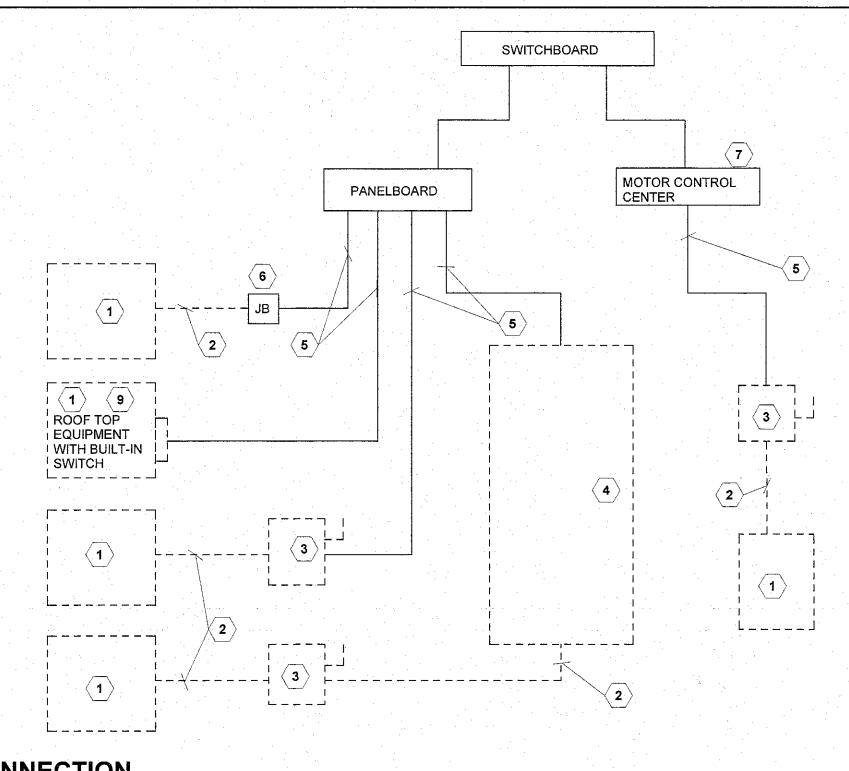
ELECTRICAL NOTES

- 1 EQUIPMENT OF TRADES OTHER THAN ELECTRICAL.
- CONDUIT AND WIRING BY HVAC, PLUMBING CONTRACTOR OR OTHER TRADES.
- 3 IF AN ADDITIONAL DISCONNECT IS REQUIRED BY NEC IT SHALL BE PROVIDED AND INSTALLED BY THE EQUIPMENT CONTRACTOR.
- A COMBINATION STARTER OR VFD MAY BE USED IN LIEU OF A SEPARATE DISCONECT SWITCH AND STARTER. LOCATE ADJACENT TO THE EQUIPMENT.
- 5 FEEDER CIRCUIT WIRING AND CONDUIT IN ELECTRICAL WORK. SEE PANELBOARD SCHEDULES FOR WIRE AND BREAKER SIZES.
- JUNCTION BOX MAY BE SHOWN ON THE ELECTRICAL PLANS FOR SOME EQUIPMENT. IF NO STARTER OR DISCONNECT IS SUPPLIED A JUNCTION BOX SHALL BE INSTALLED ADJACENT TO THE EQUIPMENT. THE ELECTRICAL CONTRACTOR SHALL PROVIDE LINE SIDE WIRING TO THE JUNCTION BOX. LOAD SIDE WIRING WILL BE PROVIDED BY MECHANICAL CONTRACTOR OR OTHER TRADES.
- PROJECTS UTILIZING AN MCC, THE STARTER, CIRCUIT BREAKER OR VFD IN THE MCC ARE PROVIDED BY THE ELECTRICAL CONTRACTOR.
- IN ALL CASES THE EQUIPMENT CONTRACTOR SHALL MAKE FINAL CONNECTIONS, START UP, AND TEST EQUIPMENT.
- 9 IF ROOF TOP EQUIPMENT (RTE) IS NOT PROVIDED WITH A BUILT-IN DISCONNECT SWITCH. THE ELECTRICAL CONTRACTOR SHALL PROVIDE A
- IN A SINGLE PRIME CONTRACT, IT IS THE RESPONSIBILITY OF THE PRIME CONTRACTOR TO COORDINATE BETWEEN THE ELECTRICAL AND OTHER



PLUMBING/ELECTRICAL EQUIPMENT CONNECTION

NTS

	ABBREVIATIONS	DTRR	DUAL TEMP. REVERSE RETURN
A/C	AIR CONDITIONING	DTS	DUAL TEMP. SUPPLY
ABV	ABOVE	DWGS	DRAWING
AC	ACRE	E.C.	ELECTRICAL CONTRACTOR
ACOUST	ACOUSTICAL	EA.	EACH
AD : .	ACCESS DOOR	EDC	ELECTRIC DUCT COIL
AFF	ABOVE FINISHED FLOOR	EH	ELECTRIC HEATER
AFG	ABOVE FINISHED GRADE	EJ	EXPANSION JOINT
AHU	AIR HANDLING UNIT	EL	ELEVATION
ATV	ATMOSPHERIC VENT	ELEC	ELECTRICAL
BBD	BOILER BLOWDOWN	EMCS	ENERGY MANAGEMENT CONTROL SYSTEM
BD	BOARD	EQ	EQUAL
BFF	BELOW FINISH FLOOR	EQUIP	EQUIPMENT
BOT'M	ВОТТОМ	EXIST	EXISTING
BTU	BRITISH THERMAL UNITS	FCC	FAN COIL CONTRACTOR PANEL
C.O.	CLEAN OUT	FCU	FAN COIL UNIT
C.U.	CONDENSING UNIT	FD	FIRE DAMPER
CB	CATCH BASINS	FIN	FINISH
CD	CONDENSATE DRAIN	FL	FLOOR
CEIL	CEILING	FPS	FEET PER SECOND
CFM	CUBIC FEET PER MINUTE	FR	FIRE RESISTANT
CFS	CUBIC FEET PER SECOND	FT	FOOT
CHWR	CHILLED WATER RETURN	G	GAS
CHWR	CHILLED EATER REVERSE RETURN	G.C.	GENERAL CONTRACTOR
CHWS	CHILLED WATER SUPPLY	GA	GAUGE
COL	COLUMN	GALV	GALVANIZED
CONC	CONCRETE	GSHP	GROUND SOURCE HEAT PUMP
COND	CONDUIT	HORIZ	HORIZONTAL
CONST	CONSTRUCTION	HP	HORSEPOWER
CONT	CONTINUOUS	HP	HEAT PUMP - #
CR	CONDENSATE RETURN (STEAM)	HPS	HIGH - PRESSURE STEAM
CW	COLD WATER SUPPLY	HR	HOUR
CWR	CONDENSTER WATER RETURN	HTWR	HOT WATER RETURN (HEATING)
cws	CONDENSER WATER SUPPLY	HTWRR	HOT WATER REVERSE RETURN (HEATING)
DDC	DIRECT DIGITAL CONTROL	HTWS	HOT WATER SUPPLY (HEATING)
DEPT	DEPARTMENT	HVAC	HEATING, VENTILATING & AIR CONDITIONING
DET	DETAIL	HW	DOMESTIC HOT WATER
DIA	DIAMETER	JST	JOIST
DMC	DOMESTIC COLD	LG	LONG
DN	DOWN	LPS	LOW - PRESSURE STEAM
DTR	DUAL TEMP. RETURN	M.C.	MECHANICAL CONTRACTOR

	•
MAS	MASONRY
MAX.	MAXIMUM
мвти	THOUSAND BRITISH THERMAL UNITS
MECH	MECHANICAL
MET	METAL
MIN	MINIMUM
MPS	MEDIUM PRESSURE STEAM
MU	MAKEUP WATER
O.A.	OUTDOOR AIR
O.C.	ON CENTER
OZ	OUNCE
P.C.	PLUMBING CONTRACTOR
PC	PUMPED CONDENSATE
PERIM	PERIMETER
PSI	POUNDS PER SQUARE INCH
PVMT	PAVEMENT
R.A.	RELIEF AIR
R.V.	RELIEF VENT
REFRIG	REFRIGERANT
REINF	REINFORCING
REQ'D	REQUIRED
RET. A.	RETURN AIR
RM	ROOM
S.F.	SQUARE FOOR
SCHED	SCHEDULE
SHT. MET.	SHEET METAL
SPECS	SPECIFICATIONS
SPRN	FIRE PROTECTION SPRINKLER PIPING
SQ. IN.	SQUARE INCH
STL	STEEL
STM	STORM
STRUCT	STRUCTURAL
TLT	TOILET
TYP	TYPICAL
U.O.N.	UNLESS OTHERWISE NOTED
UL	UNDERWRITERS LABORATORIES
W/	WITH
WWF	WELDED WIRE FABIC
	MAX. MBTU MECH MET MIN MPS MU O.A. O.C. OZ P.C. PC PERIM PSI PVMT R.A. R.V. REFRIG REINF REQ'D RET. A. RM S.F. SCHED SHT. MET. SPECS SPRN SQ. IN. STL STM STRUCT TLT TYP U.O.N. UL

PLUN	IBING LEGEND	
SYMBOL	ABBREVIATION	COMPONENT
	DHC	HOT WATER RECIRC PIPING
	DHW	HOT WATER PIPING
	DCW	COLD WATER PIPING
	V	VENT PIPING
	SAN	SANITARY DRAIN PIPING
	CO or XCO	FLOOR CLEANOUT (CO) OR EXTERIOR CLEANOUT (XCO)
	WHA	WATER HAMMER ARRESTOR
	wco	WALL CLEANOUT
<u>-T_i</u>	НВ	HOSE BIBB
FD	FD	FLOOR DRAIN OR FUNNEL AS INDICATED.
	WM	WATER METER
	BFP	BACK FLOW PREVENTER
	STR	STRAINER
<u>-</u>	VTR	VENT THRU ROOF
	AFF	ABOVE FINISHED FLOOR
***		FIXTURE NUMBER REFER TO PLUMBING SCHEDULES
		POINT OF CONNECTION, NEW / EXISTING
		BALL VALVE
	NAT	NATURAL GAS

NOTE:
ALL PROJECTS REQUIRE COORDINATION AND COOPERATION AMONG THE DISCIPLINES.
CONTRACTORS SHALL COORDINATE LOCATIONS AND SEQUENCE OF INSTALLATION OF
THEIR RESPECTIVE EQUIPMENT, PIPES, CONDUITS, DUCTS, ETC. WITH ALL DISCIPLINES. DO
NOT BEGIN FABRICATION OR INSTALLATION UNTIL ALL ROUTING AND POTENTIAL CONFLICT
ISSUES HAVE BEEN RESOLVED. ANY REMOVAL AND REINSTALLATION OF NEWLY INSTALLED
ITEMS TO RESOLVE CONFLICTS SHALL BE DONE AT NO ADDITIONAL COST TO THE OWNER
OR DESIGNERS.

PLUMBING FIXTURE LOADS

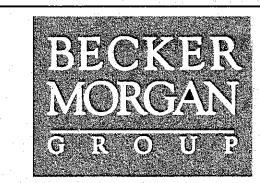
DOMESTIC WATER - 56 W.S.F.U.

SANITARY WASTE - 44 D.F.U.

GENERAL NOTES (ALL NOTES ON THIS PAGE APPLY TO ALL SHEETS U.O.N.)

- DRAWINGS ARE DIAGRAMMATIC. DRAWINGS ARE NOT INTENDED TO BE ABSOLUTELY PRECISE, AND DO NOT SPECIFY OR SHOW EVERY OFFSET, FITTING, AND COMPONENT. THE PURPOSE OF THE DRAWINGS IS TO INDICATE A SYSTEM CONCEPT, THE MAIN COMPONENTS OF THE SYSTEMS, AND THE APPROXIMATE GEOMETRICAL RELATIONSHIPS. BASED ON THE SYSTEMS CONCEPT, THE MAIN COMPONENTS AND APPROXIMATE GEOMETRICAL RELATIONSHIPS, THE CONTRACTOR SHALL PROVIDE ALL OTHER COMPONENTS AND MATERIALS NECESSARY TO MAKE THE SYSTEMS FULLY COMPLETE AND OPERATIONAL. THE CONTRACTOR SHALL ROUTE PIPING OR PROVIDE OFFSETS TO AVOID INTERFERENCE WITH STRUCTURAL ELEMENTS, EQUIPMENT, ELECTRICAL PANELS AND JUNCTION BOXES, ETC. VERIFY LOCATIONS, DIMENSIONS, EXISTING FLOW DIRECTIONS, AVAILABLE POWER CHARACTERISTICS (VOLTS/PHASE), ETC., BEFORE CONSTRUCTION.
- WORKMANSHIP: COMPETENT SKILLFUL WORKMEN SHALL DO ALL WORK IN A FINISHED, THOROUGHLY SUBSTANTIAL AND CRAFTSMANLIKE MANNER. THIS IS INTENDED TO REFER PARTICULARLY TO SMALLER DETAILS NECESSARY BUT USUALLY NOT SPECIFIED OR INDICATED ON THE DRAWINGS. ALL SUBSTANDARD WORK, INSTALLED BY THIS CONTRACTOR, SHALL BE REPLACED BY THIS CONTRACTOR AT NO ADDITIONAL EXPENSE TO THE OWNER. IF THIS CONTRACTOR DAMAGES EXISTING WORK, HE SHALL PAY THE COST OF REPLACEMENT OF THE DAMAGED WORK AT NO ADDITIONAL EXPENSE TO THE OWNER. THE ENGINEER SHALL BE THE JUDGE OF WORKMANSHIP AND HIS/HER OPINION SHALL BE FINAL.
- THE DESIGN DOCUMENTS INDICATE THE PRODUCTS THAT WERE USED AS THE BASIS OF THE DESIGN. THIS ESTABLISHES THE PRODUCT PARAMETERS AND OTHER SYSTEMS INTERACTING WITH THE PRODUCT (SIZE, POWER REQUIREMENTS, PIPE SIZES, PUMP CAPACITY, ETC.). CONTRACTOR SHALL SPECIFICALLY BRING TO THE DESIGNER'S ATTENTION ANY CHANGES IN OTHER SYSTEMS REQUIRED WHEN PRODUCTS, OTHER THAN THOSE USED AS THE BASIS OF THE DESIGN, ARE USED. THE CONTRACTOR SHALL BEAR ALL COSTS, INCLUDING DESIGN, FOR THE CHANGES.
- THE CONTRACTOR SHALL VERIFY EXISTING CONDITIONS, DIMENSIONS AND SIZES BEFORE FABRICATING OR ORDERING EQUIPMENT.
- 5. REPAIR AND PATCH ALL NEW CEILING, ROOF, WALL AND FLOOR PENETRATIONS TO MATCH EXISTING FINISH. SEAL ALL PENETRATIONS OF FIRE RATED WALLS/FLOORS/CEILINGS IN ACCORDANCE WITH UL SPECIFICATIONS.
- SUPPORT ALL PIPING FROM BUILDING STRUCTURE, FLOOR OR PAVEMENT. REFER
 TO SPECIFICATIONS AND DETAIL DRAWINGS FOR REQUIREMENTS.
- 7. LABEL ALL EQUIPMENT, DUCTS, ETC. IN ACCORDANCE WITH SPECIFICATIONS.
- PROVIDE WARNING TAPE OR TRACER WIRE IN THE BACKFILL OF ALL PIPE TRENCHES. INSTALL AT LEAST 6 INCHES BELOW GRADE, BUT NOT DEEPER THAN 24 INCHES BELOW GRADE, DIRECTLY OVER PIPING.
 - A. METALLIC LINES SHALL BE IDENTIFIED WITH DURABLE PRINTED PLASTIC WARNING TAPES, MINIMUM 3 INCHES WIDE WITH LETTERING TO IDENTIFY BURIED LINE BELOW.
 - B. NON-METALLIC PIPES SHALL BE MARKED USING AN APPROVED TRACER. A YELLOW INSULATED COPPER TRACER WIRE OR OTHER APPROVED CONDUCTOR SHALL BE INSTALLED ADJACENT TO AND OVER THE FULL LENGTH OF UNDERGROUND NONMETALLIC PIPING. ACCESS SHALL BE PROVIDED TO THE TRACER WIRE OR THE TRACER WIRE SHALL TERMINATE AT THE CLEANOUT BETWEEN THE BUILDING DRAIN AND BUILDING SEWER. THE TRACER WIRE SIZE SHALL NOT BE LESS THAN 14AWG AND
- THE INSULATION TYPE SHALL BE LISTED FOR DIRECT BURIAL.

 9. THE DELINEATION OF THE WORK BETWEEN THE PLUMBING AND THE ELECTRICAL CONTRACTORS SHALL COMPLY WITH THE REQUIREMENTS ESTABLISHED BY THE NC STATE CONSTRUCTION OFFICE. REFER TO SCHEMATIC TITLED "PLUMBING/ELECTRICAL EQUIPMENT CONNECTION" ON THIS SHEET.
- 10. REFER TO PLANS, EQUIPMENT SCHEDULES AND DETAILS FOR CAPACITIES AND ADDITIONAL REQUIREMENTS. INSTALL ALL EQUIPMENT IN COMPLIANCE WITH MANUFACTURER'S WRITTEN RECOMMENDATION AND REQUIREMENTS. IF RECOMMENDATIONS CONFLICT WITH DRAWINGS, REQUEST CLARIFICATIONS FROM ENGINEER BEFORE PROCEEDING.
- 11. CONTRACTOR SHALL BE RESPONSIBLE FOR SAFETY AT THE SITE. PROVIDE BARRICADES AND COVERS AT THE EXCAVATION AREAS AS APPROPRIATE. COMPLY WITH SAFETY REQUIREMENTS OF OSHA, ETC.
- 12. EXCEPT FOR INTERRUPTIONS SPECIFICALLY PERMITTED BY THE OWNER, PEDESTRIAN TRAFFIC SHALL BE MAINTAINED AT ALL TIMES. COORDINATE WITH THE OWNER.
- 13. FIELD-VERIFY EXISTING AND COORDINATE NEW EQUIPMENT SIZES WITH ASSOCIATED CONTRACTORS (ELECTRICAL, KITCHEN VENDERS, ETC.) AFTER COMPLETION OF SHOP DRAWING REVIEW. ADJUST VOLTAGE RATING, CAPACITY AND SIZE OF WIRING, STARTERS, DISCONNECT SWITCHES AND OVERCURRENT PROTECTION DEVICES AS REQUIRED. NOTIFY ENGINEER OF ANY DISCREPANCIES BEFORE ORDERING SUPPLIES AND START OF CONSTRUCTION. FAILURE TO COMPLY WILL REQUIRE THE CONTRACTOR TO BEAR THE COST FOR CORRECTLY SIZED EQUIPMENT AND WIRING.
- 14. EQUIPMENT SHALL BE INSTALLED WITH MANUFACTURERS RECOMMENDED SERVICE CLEARANCES OR STATE BUILDING CODE SERVICE CLEARANCES WHICHEVER IS GREATER.
- 15. WHERE PIPES ARE SHOWN GOING THROUGH A CEILING OR THE ROOF THEY SHALL GO BETWEEN JOISTS OR JOISTS AND BEAMS. NO TRUSSES, BEAMS, COLUMNS OR OTHER STRUCTURAL MEMBERS ARE TO BE CUT WITHOUT PRIOR APPROVAL OF THE ENGINEER.
- 16. THE SERVICE WATER HEATING SYSTEMS FOR THIS PROJECT WILL BE COMMISSIONED BY A COMMISSIONING AGENT. THE CONTRACTOR SHALL PROVIDE ALL MATERIAL AND RESOURCES NECESSARY TO ENSURE COMPLIANCE WITH THE REQUIREMENTS OF SPECIFICATION SECTION 01 91 13 GENERAL COMMISSIONING REQUIREMENTS, AND WITH THE REQUIREMENTS OF THE COMMISSIONING PLAN.



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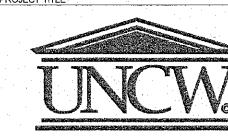
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PROJECT TITLE



UNCW FILM STUDIES

601 S College Rd, Wilmington, NC, 28403

PLUMBING COVER

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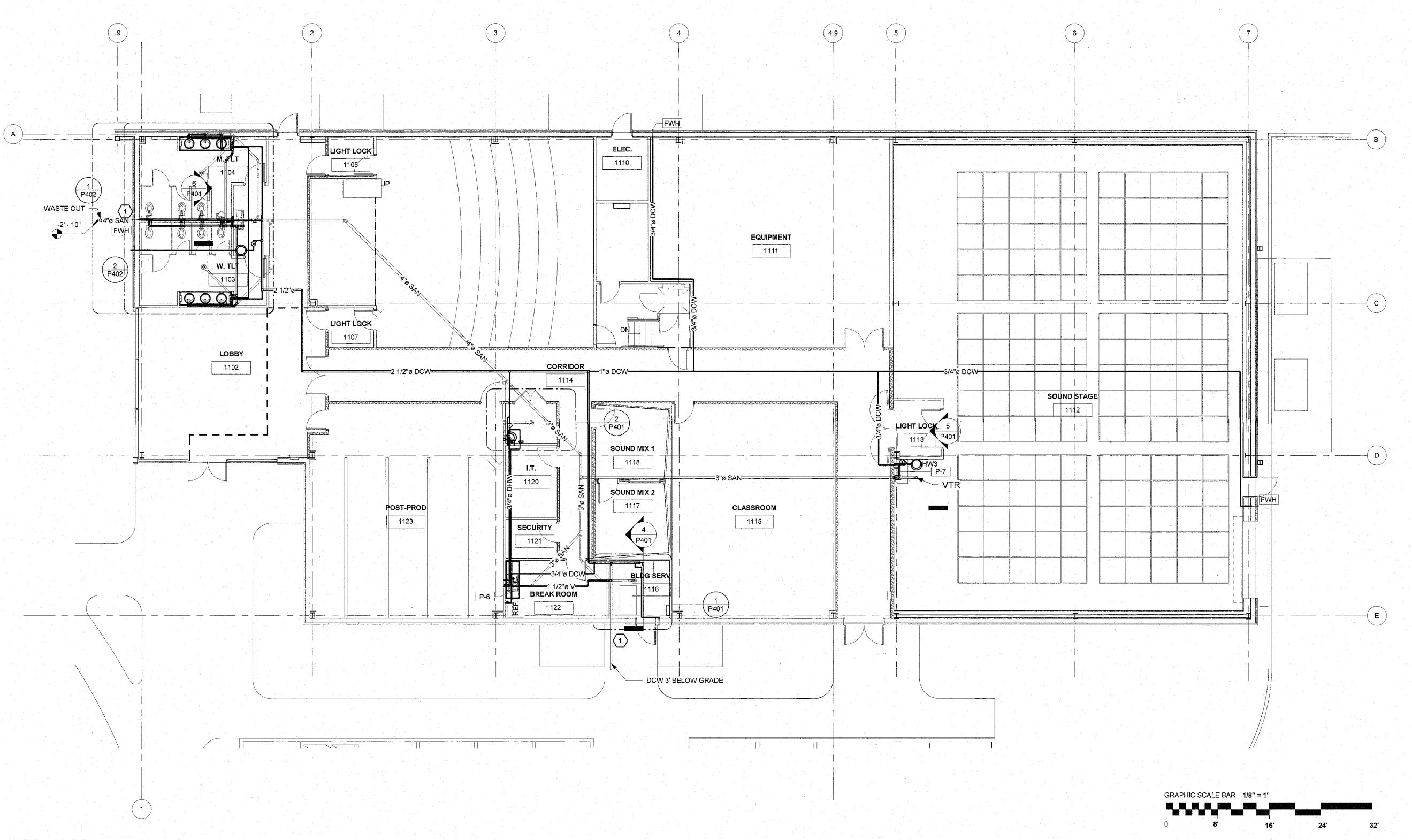
 PROJECT NO:
 2018070.01

 DATE:
 09/23/2019

SCALE: 12" = 1'-0"

DRAWN BY: JWS | PROJ MGR: 1'S

PIUU



FIRST FLOOR - PLUMBING LAYOUT

1. REFER TO SHEET P100 FOR GENERAL NOTES, LEGENDS, AND ABBREVIATIONS.

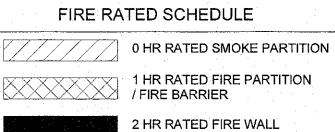
2. REFER TO THE P400 SERIES FOR ENLARGED PLANS AND ELEVATIONS, TO THE P500 SERIES FOR DETAILS, AND TO THE P600 SERIES FOR EQUIPMENT SCHEDULES AND PIPING ISOMETRICS.

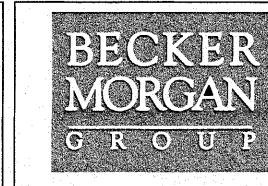
3. SUPPORT ALL EQUIPMENT AND PIPING FROM THE STRUCTURE OR THE FLOOR AS RECOMMENDED BY THE MANUFACTURER. CONCEAL PIPES AND WIRING ABOVE CEILINGS OR IN WALLS WHEREVER CEILINGS AND

KEYED NOTES

WHERE PIPES PASS UNDER THE EDGE OF THE FOOTING (TURNED DOWN SLAB), PROVIDE A SCHEDULE 40 STEEL PIPE SLEEVE TWO PIPE SIZES LARGER THAN THE PIPE. EXTEND THE PIPE SLEEVE 1'-0" PAST EACH SIDE OF THE CONCRETE FOOTING. PROVIDE SPACERS INSIDE SLEEVE TO MAINTAIN SLOPE OF WASTE PIPE. FILL OR SEAL ANNULAR SPACE IN AN APPROVED MANNER. BACKFILL TRENCH WITH #57 STONE. THE BEARING CAPACITY OF THIS AREA MUST MEET OR EXCEED THE ALLOWABLE SOIL BEARING CAPACITY. COORDINATE WITH STRUCTURAL WORK.







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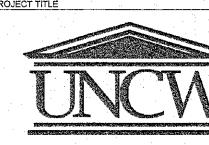
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PLUMBING FLOOR PLAN

ISSUE BLO	CK.	
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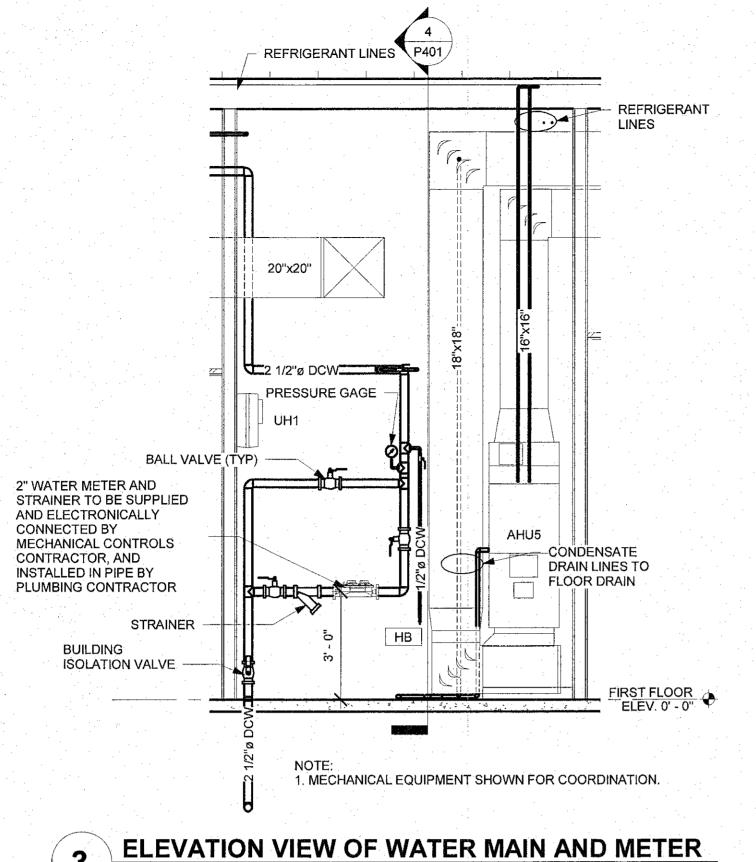
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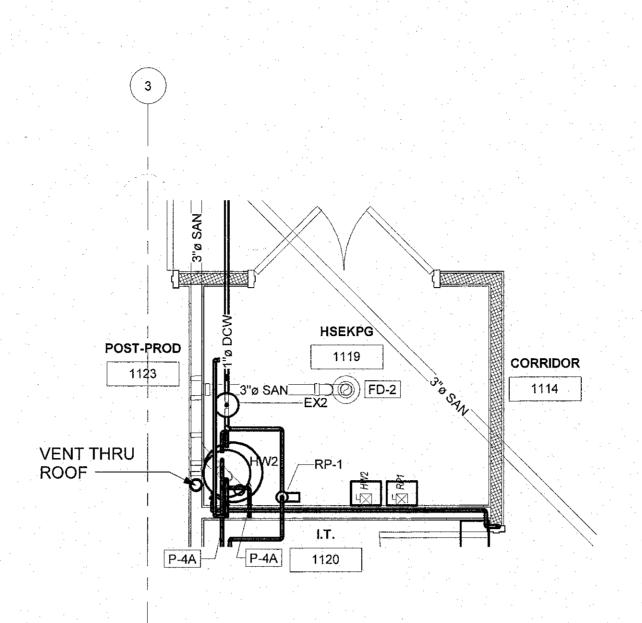
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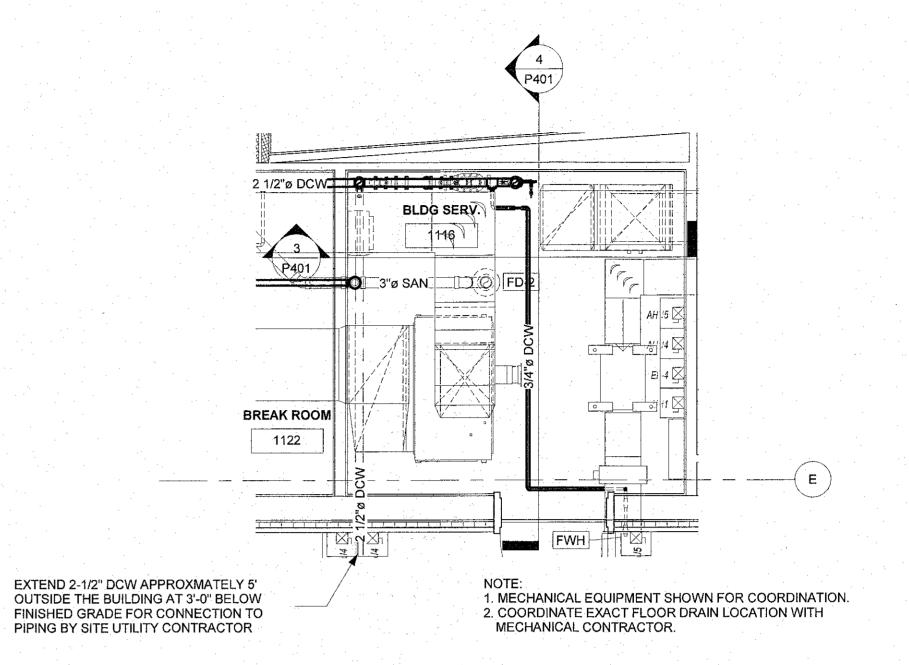
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As indicated



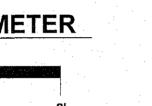
GRAPHIC SCALE BAR 3/8" = 1'





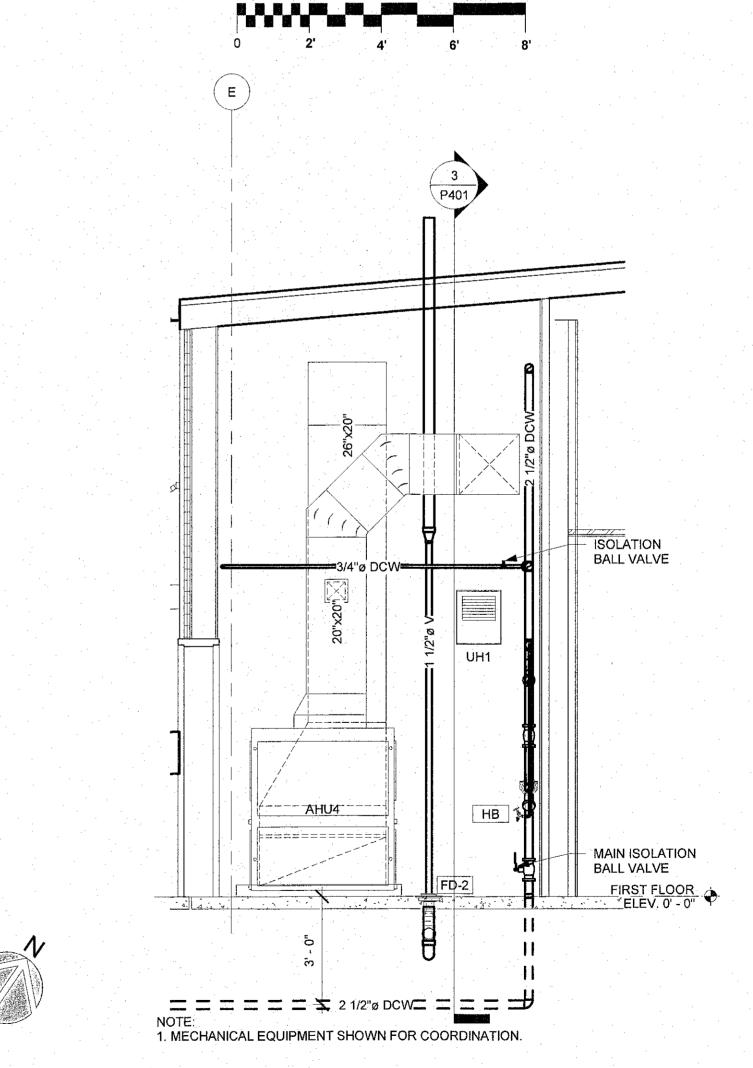
ENLARGED BUILDING SERVICE ROOM PLUMBING

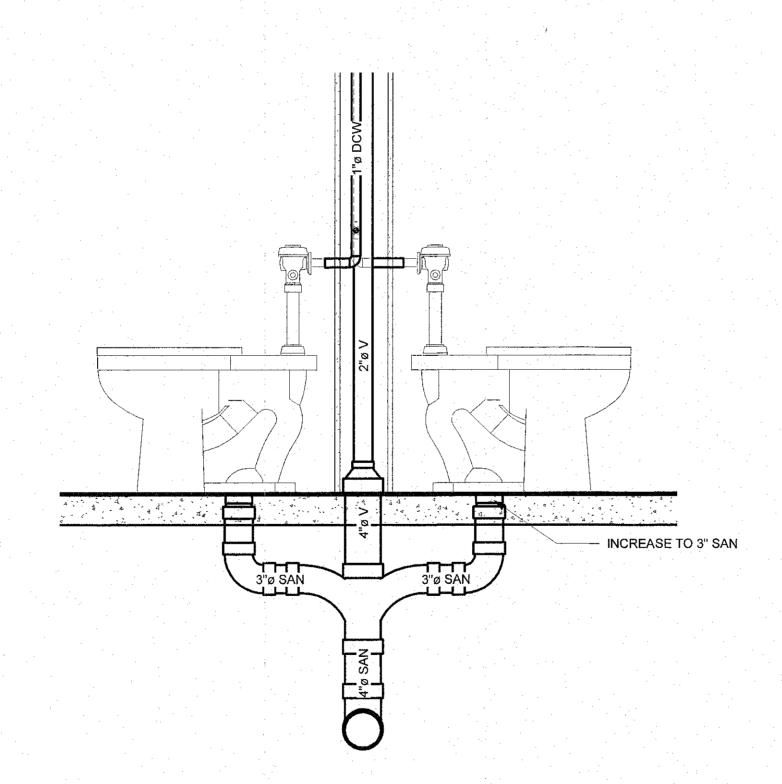
GRAPHIC SCALE BAR 3/8" = 1'



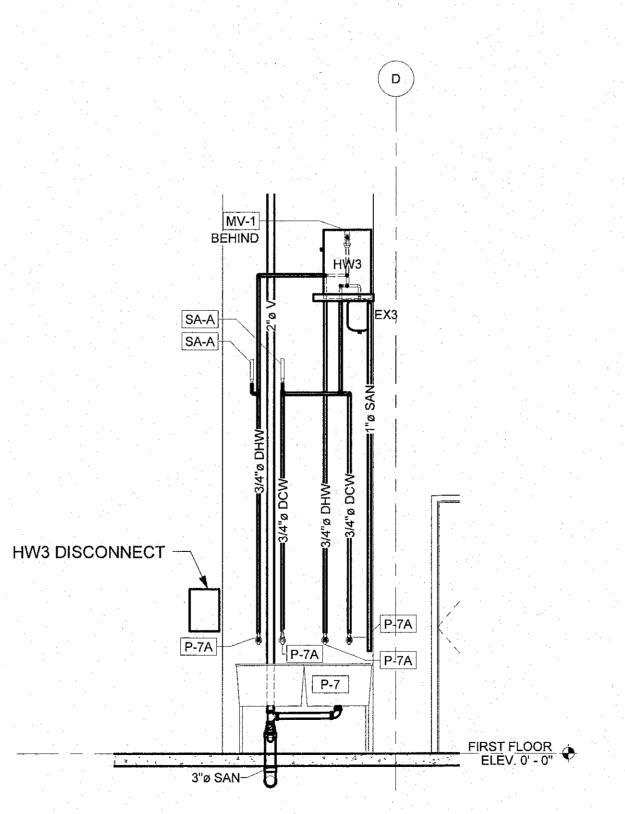
ENLARGED HOUSEKEEPING DOMESTIC WATER

GRAPHIC SCALE BAR 3/8" = 1"

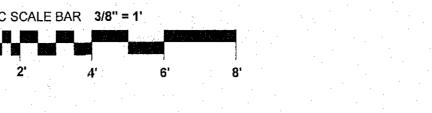


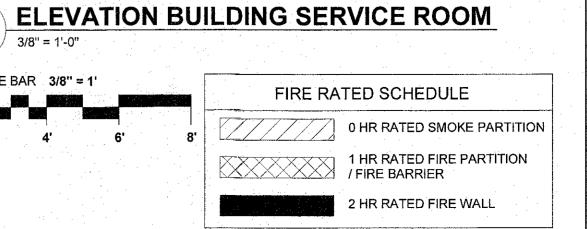


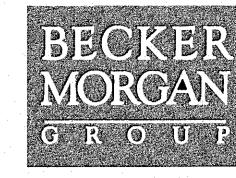




5 ELEVATION VIEW PLUMBING IN SOUND STAGE
3/8" = 1'-0"







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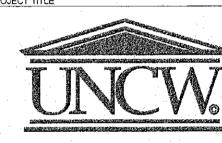
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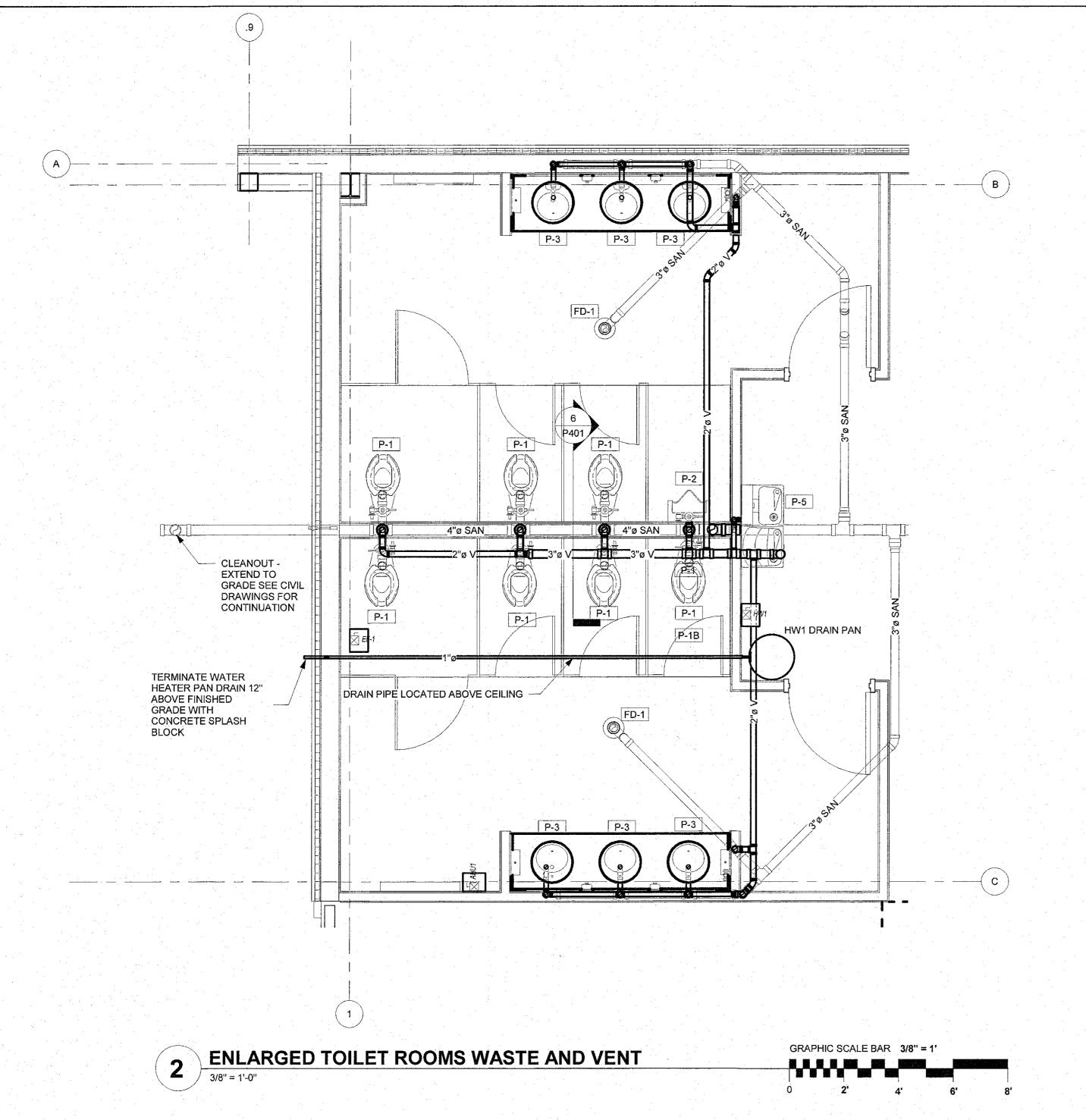
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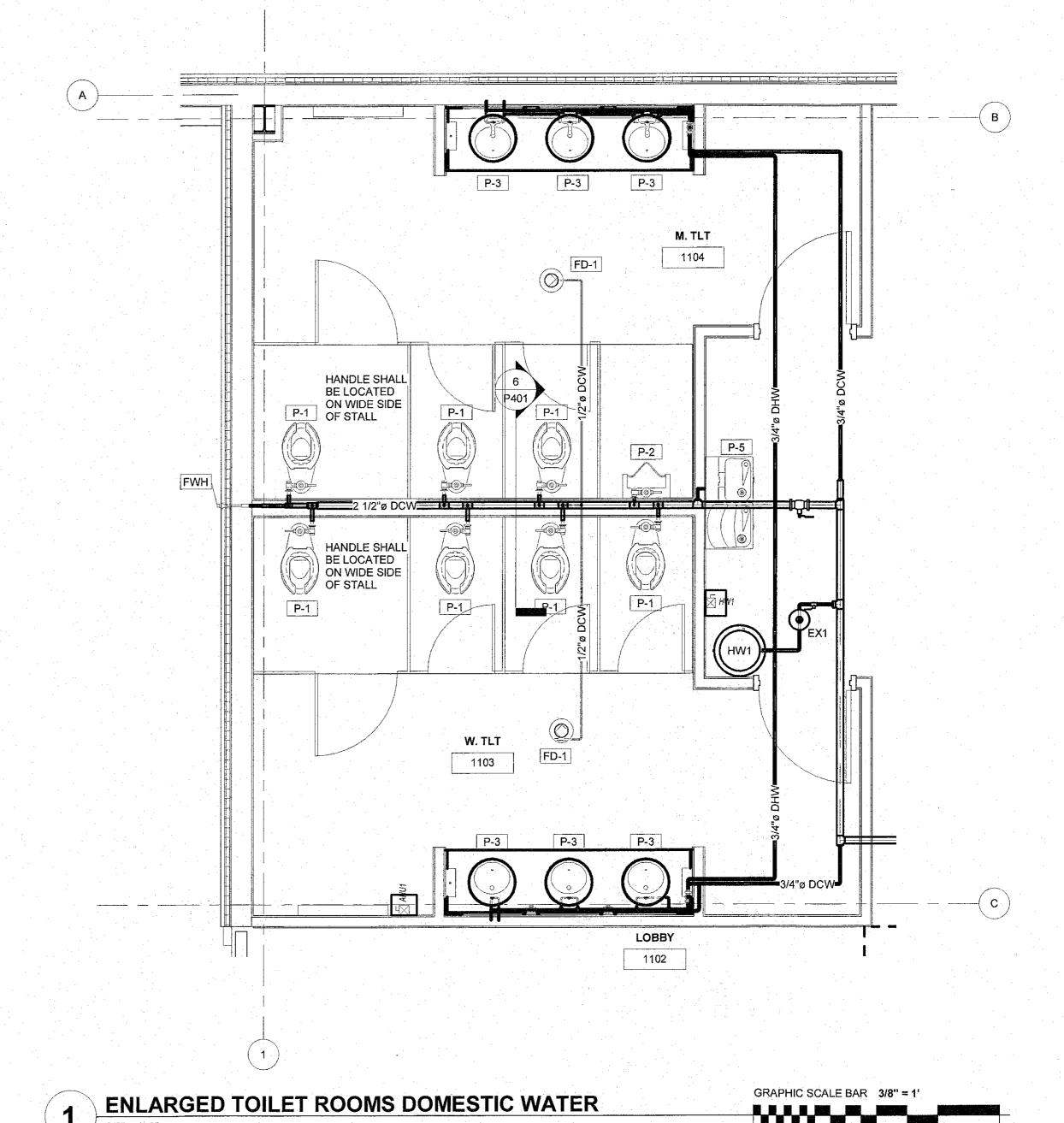
ENLARGED AND ELEVATION VIEWS

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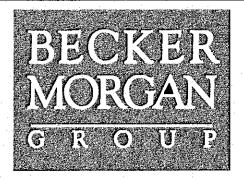


NOTES
1. FOR SIZES NOT SHOWN REFER TO ISOMETRICS ON P602 AND PLUMBING SCHEDULES ON P603.



NOTES
1. IN HANDICAP STALLS THE HANDLE OF THE FLUSH VALVE SHALL BE MOUNTED ON THE WIDE SIDE OF THE TOILET AREA AND NO MORE THAN 36 INCHES ABOVE THE FLOOR.

2. FOR SIZES NOT SHOWN REFER TO ISOMETRICS ON P601 AND PLUMBING SCHEDULES ON P603.



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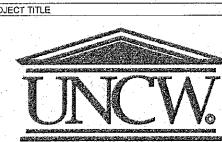
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SHEET TITLE

| ENLARGED TOILETS

FIRE RATED SCHEDULE

O HR RATED SMOKE PARTITION

1 HR RATED FIRE PARTITION

/ FIRE BARRIER

2 HR RATED FIRE WALL

Mark Date Description

PROJECT NO: 2018070.01

DATE: 09/23/2019

SCALE: As indicated

DRAWN BY: JWS PROJ MGR: IS

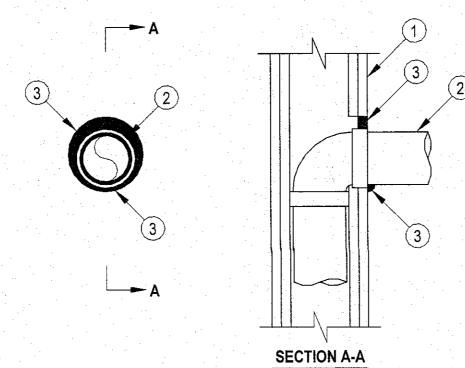
WATER HEATING PIPING SCHEMATIC - HW2

12" = 1'-0"

System No. W-L-1410

January 26, 2015

ANSI/UL1479 (ASTM E814) CAN/ULC S115 F Ratings — 1 and 2 Hr (See Item 1) FT Rating — 0 Hr F Ratings — 1 and 2 Hr (See Item 1) FH Ratings — 1 and 2 Hr (See Item 1) T Rating — 0 Hr FTH Rating — 0 Hr



1. Wall Assembly — The 1 or 2 hr fire rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner specified in the individual U300, U400, V400 or W400 Series Wall and Partition Designs in the UL Fire Resistance Directory and shall include the following construction

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC. Steel studs to be min 3-1/2 in. (89 mm) wide and spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — One or two layers of nom 5/8 in. (16 mm) thick gypsum board as specified in the individual Wall and Partition Design. Max diam of opening is 5 in. (127 mm). The hourly F and FH Ratings of the firestop system are equal to the hourly fire rating of the wall assembly.

2. Through penetrants — One metallic pipe or conduit to be installed either concentrically or eccentrically within the firestop system. The annular space shall be 0 in. (point contact) to 1 in. (25 mm). Pipe or conduit to be rigidly supported on the penetrated side of the wall assembly. The following types and sizes of metallic pipes or conduits may be used:

A. Steel pipe — Nom 3 in. (76 mm) diam (or smaller) Schedule 5 (or heavier) steel pipe. B. Conduit - Nom 3 in. (76 mm) diam (or smaller) steel electrical metallic

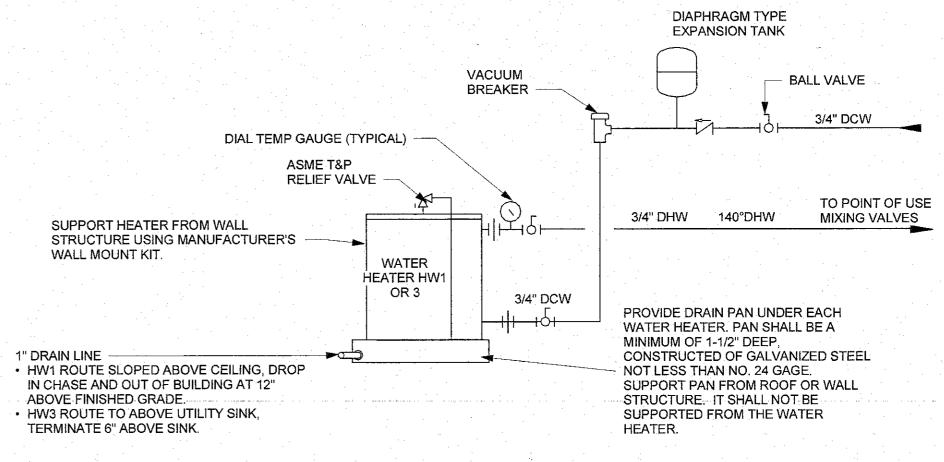
tubing (EMT), nom 3 in. (76 mm) diam steel conduit or nom 1 in. (25 mm) diam (or smaller) flexible steel conduit.

C. Copper Tubing — Nom 1 in. (25 mm) diam (or smaller) Type L (or heavier) copper tubing. D. Copper Pipe — Nom 1 in. (25 mm) diam (or smaller) Regular (or heavier)

3. Fill, Void or Cavity Material++— Sealant — Min 5/8 in. (16 mm) thickness of fill material applied within the annulus, flush with surface of wall. Min 1/2 in. (13 mm) diam bead of sealant applied at point contact location. HILTI CONSTRUCTION CHEMICALS, DIV OF HILTI INC - FS-ONE Sealant, FS-ONE MAX Intumescent Sealant, CFS-S-SIL GG Sealant, CP601S Elastomeric Sealant, CP 606 Sealant, or CP618 Putty.

copper pipe.

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WATER HEATING PIPING SCHEMATIC - HW1 & HW3

System No. W-L-1001 June 15, 2005

F Ratings -- 1, 2, 3 and 4 Hr (See Items 2 and 3)

T Ratings -- 0, 1, 2, 3 and 4 Hr (See Item 3) L Rating At Ambient -- less than 1 CFM/sq ft

L Rating At 400 F -- less than 1 CFM/sq ft

SECTION A-A

1. Wall Assembly — The 1, 2, 3 or 4 hr fire-rated gypsum wallboard/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300 or U400 Series Wall or Partition Designs in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs (max 2 h fire rated assemblies) or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B. Gypsum Board* — Nom 1/2 or 5/8 in. (13 or 16 mm) thick, 4 ft. (122 cm) wide with square or tapered edges. The gypsum wallboard type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual U300 or U400 Series Design in the UL Fire Resistance Directory. Max diam of opening is 26 in. (660 mm).

2. Through-Penetrant — One metallic pipe, conduit or tubing installed either concentrically or eccentrically within the firestop system. The annular space between pipe, conduit or tubing and periphery of opening shall be min of 0 in / (0 mm). (point contact) to max 2 in. (51 mm) Pipe, conduit or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes, conduits or tubing may be used:

A. Steel Pipe — Nom 24 in. (610 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Iron Pipe — Nom 24 in. (610 mm) diam (or smaller) service weight (or heavier) cast iron soil pipe, nom 12 in (305 mm) diam (or smaller) or Class 50 (or heavier) ductile iron pressure pipe.

C. Conduit — Nom 6 in. (152 mm) diam (or smaller) steel conduit or nom 4 in (102 mm) diam (or smaller) steel electrical metallic tubing

D. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing

E. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

F. Through Penetrating Product* — Flexible Metal Piping The following types of steel flexible metal gas piping may be used:

1. Nom 2 in. (51 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

OMEGA FLEX INC

2. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

GASTITE, DIV OF TITEFLEX

3. Nom 1 in. (25 mm) diam (or smaller) steel flexible metal gas piping. Plastic covering on piping may or may not be removed on both sides of floor or wall assembly.

WARD MFG L L C

3. Fill, Void or Cavity Material* — Caulk or Sealant — Min 5/8., 1-1/4,1-7/8 and 2-1/2 in. (16, 32, 48 and 64 mm) thickness of caulk for 1, 2, 3 and 4 hr rated assemblies, respectively, applied within annulus, flush with both surfaces of wall. Min 1/4 in. (6 mm) diam bead of caulk applied to gypsum board/penetrant interface at point contact location on both sides of wall. The hourly F Rating of the firestop system is dependent upon the hourly fire rating of the wall assembly in which it is installed, as shown in the following table. The hourly T Rating of the firestop system is dependent upon the type or size of the pipe or conduit and the hourly fire rating of the wall assembly in which it is installed, as tabulated below:

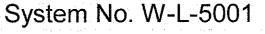
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Max Pipe or Conduit Diam In	F Rating Hr	T Rating Hr
. · 1	1 or 2	0+, 1 or 2
 1,	3 or 4	3 or 4
4	1 or 2	0
6	3 or 4	0
12	1 or 2	0

+When copper pipe is used, T Rating is 0 h.

3M COMPANY -- CP 25WB+ or FB-3000 WT.

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

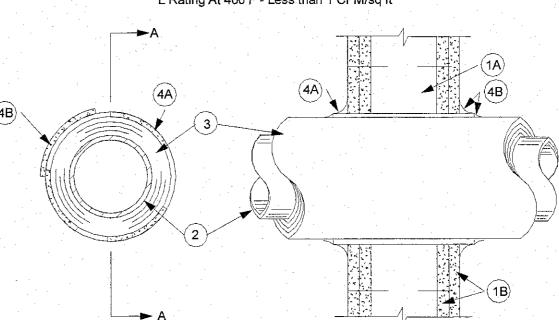
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May 19, 2005

F Ratings - and 2 Hr (See Item 1) T Ratings - 3/4, 1 and 1-1/2 Hr (See Item 3)

L Rating At Ambient - 2 CFM/sq ft L Rating At 400 F - Less than 1 CFM/sq ft



SECTION A-A

1. Wall Assembly — The 1 or 2 hr fire-rated gypsum board/stud wall assembly shall be constructed of the materials and in the manner described in the individual U300, U400 or V400 Series Wall or Partition Design in the UL Fire Resistance Directory and shall include the following construction features:

A. Studs — Wall framing may consist of either wood studs or steel channel studs. Wood studs to consist of nom 2 by 4 in. (51 by 102 mm) lumber spaced 16 in. (406 mm) OC with nom 2 by 4 in. (51 by 102 mm) lumber end plates and cross braces. Steel studs to be min 3-5/8 in. (92 mm) wide by 1-3/8 in. (35 mm) deep channels spaced max 24 in. (610 mm) OC.

B, Gypsum Board* — Nom 5/8 in, (16 mm) thick, 4 ft (122 cm) wide with square or tapered edges. The gypsum board type, thickness, number of layers, fastener type and sheet orientation shall be as specified in the individual Design in the UL Fire Resistance Directory. Max diam of opening is 14-1/2 (368mm) in for wood stud walls and 18 in. (457 mm) for steel stud walls.

The hourly F Rating of the firestop system is 1 hr when installed in a 1 hr fire rated wall and 2 hr when installed in a 2 hr fire rated wall.

2. Through Penetrants — One metallic pipe or tubing to be centered within the firestop system. Pipe or tubing to be rigidly supported on both sides of wall assembly. The following types and sizes of metallic pipes or tubing may be used:

A. Steel Pipe — Nom 12 in. (305 mm) diam (or smaller) Schedule 10 (or heavier) steel pipe.

B. Copper Tubing — Nom 6 in. (152 mm) diam (or smaller) Type L (or heavier) copper tubing.

C. Copper Pipe — Nom 6 in. (152 mm) diam (or smaller) Regular (or heavier) copper pipe.

3. Pipe Covering* — Nom 1 or 2 in. (25 or 51 mm) thick hollow cylindrical heavy density (min 3.5 pcf or 56 kg/m3) glass fiber units jacketed on the outside with an all service jacket. Longitudinal joints sealed with metal fasteners or factory-applied self-sealing lap tape. Transverse joints sealed with metal fasteners or with butt strip tape supplied with the product. When nom 1 in. (25 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum wallboard layers on each side of the wall shall be min 1/4 in. (6 mm) to max 3/8 in. (10 mm) When nom 2 in. (51 mm) thick pipe covering is used, the annular space between the pipe covering and the circular cutout in the gypsum board layers on each side of the wall shall be min 1/2 in. (13 mm) to max 3/4 in. (19 mm)

See Pipe and Equipment Covering Materials (BRGU) category in Building Materials Directory for names of manufacturers. Any pipe covering material meeting the above specifications and bearing the UL Classification Marking with a Flame Spread Index of 25 or less and a Smoke Developed Index of 50 or less

The hourly T Rating of the firestop system is 3/4 hr when nom 1 in. (25 mm) thick pipe covering is used. The hourly T Rating of the firestop system is 1 hr and 1-1/2 hr when nom 2 in. (52 mm) thick pipe covering is used with 1 hr and 2 hr fire rated walls, respectively.

4. Firestop System — Installed symmetrically on both sides of wall assembly. The details of the firestop system shall be as follows:

A. Fill, Void or Cavity Materials* — Wrap Strip — Nom 1/4 in. (6 mm) thick intumescent elastomeric material faced on one side with aluminum foil, supplied in 2 in. (51 mm) wide strips. Nom 2 in. (51 mm) wide strip tightly wrapped around pipe covering (foil side out) with seam butted. Wrap strip layer securely bound with steel wire or aluminum foil tape and slid into annular space approx 1-1/4 in. (32 mm) such that approx 3/4 in. (19 mm) of the wrap strip width protrudes from the wall surface. One layer of wrap strip is required when nom 1 in. (25 mm) thick pipe covering is used. Two layers of wrap strip are required when nom 2 in. (51 mm) thick pipe covering is used.

3M COMPANY — FS-195+

B. Fill, Void or Cavity Materials* — Caulk or Sealant — Min 1/4 in. (6 mm) diam continuous bead applied to the wrap strip/wall interface and to the exposed edge of the wrap strip layer approx 3/4 in. (19 mm) from the wall surface.

3M COMPANY — CP 25WB+, IC 15WB+, FireDam 150+ caulk or FB-3000 WT sealant

* Indicates such products shall bear the UL or cUL Certification Mark for jurisdictions employing the UL or cUL Certification (such as Canada), respectively.

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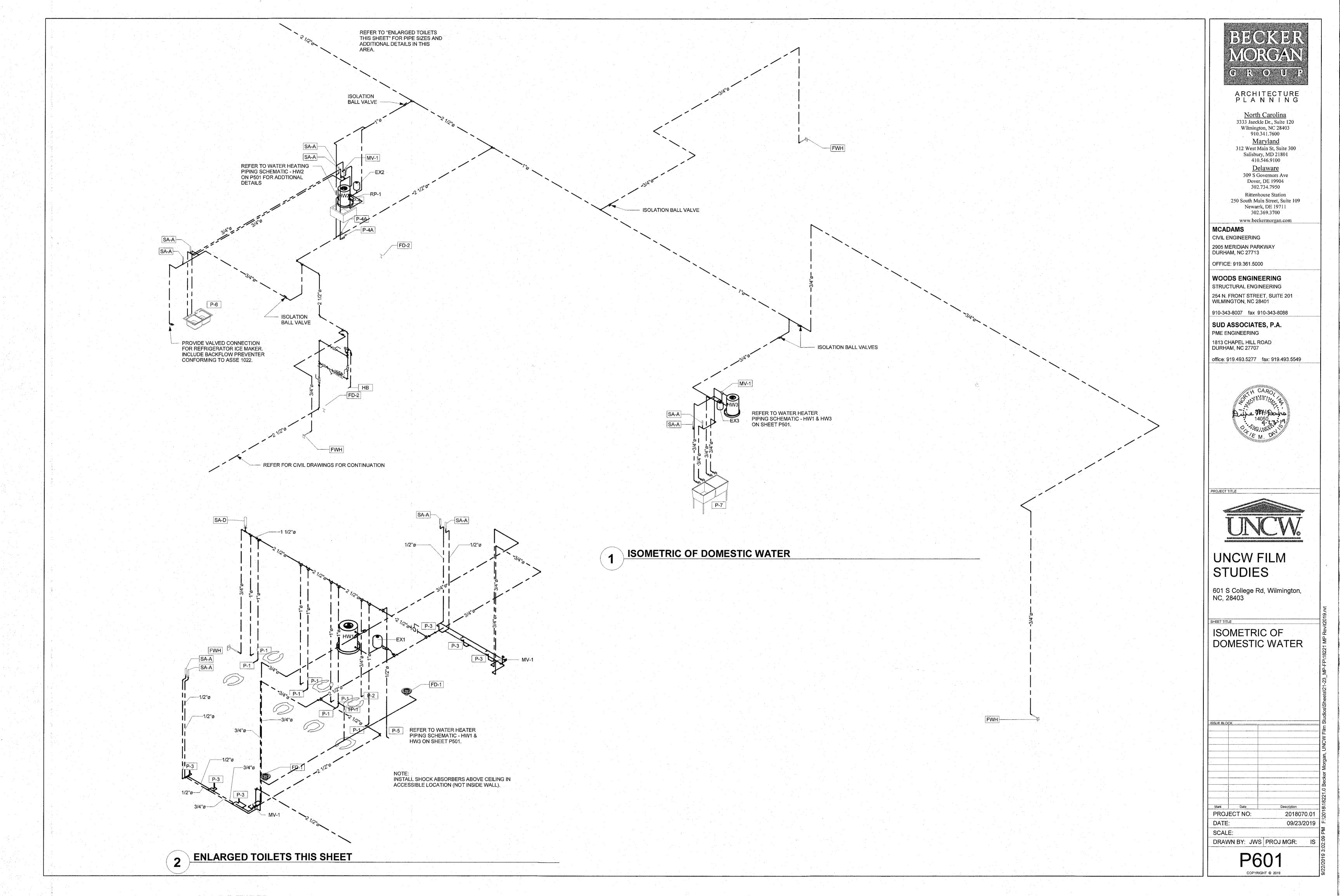
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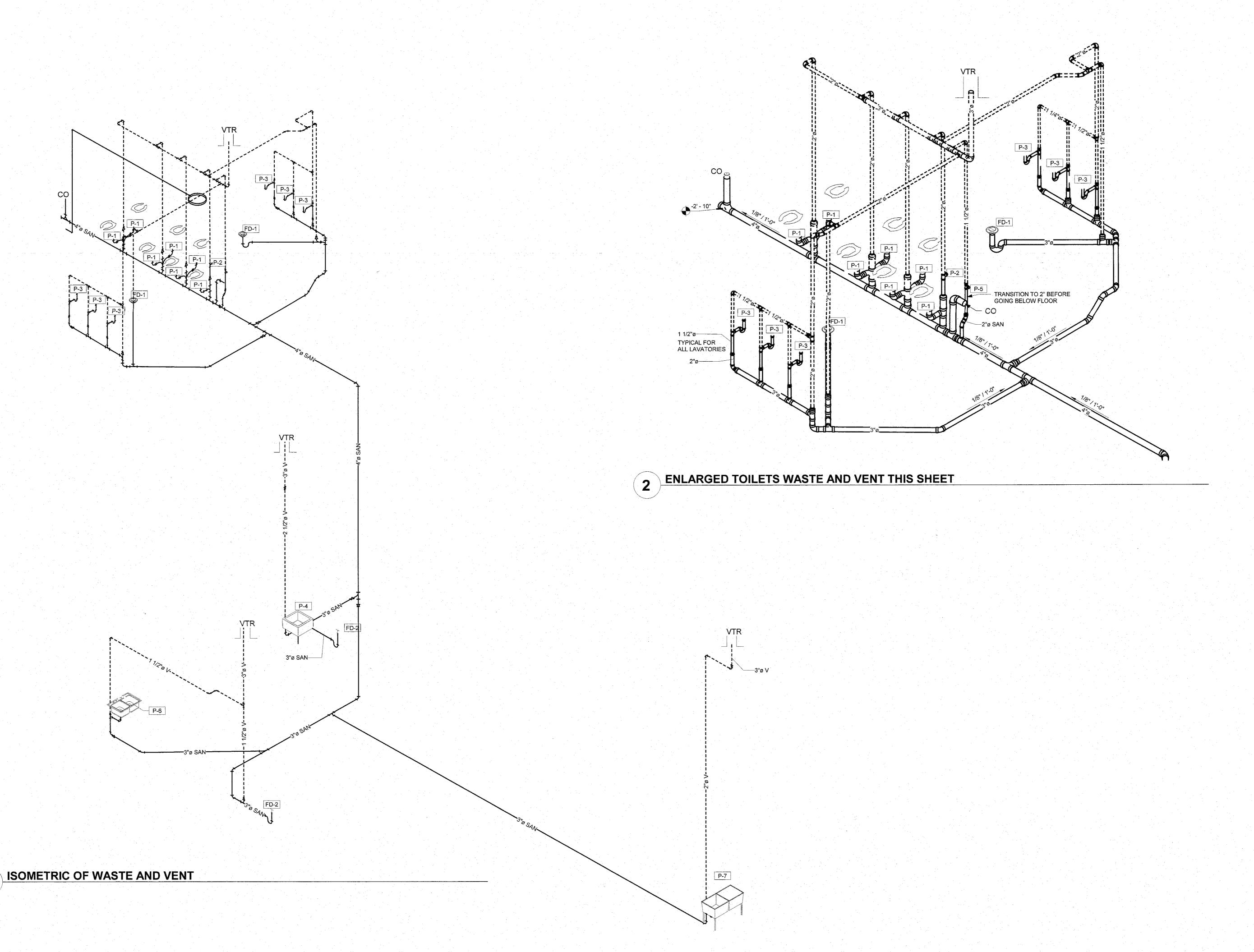
PLUMBING DETAILS

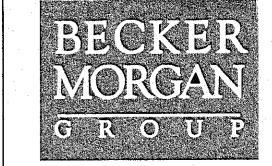
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DATE		09/23/2019
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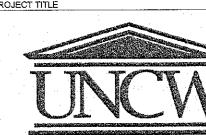
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ISOMETRIC OF WASTE AND VENT PIPES

PROJECT NO.

DATE: SCALE:

DRAWN BY: JWS PROJ MGR:

P602

Description 2018070.01

09/23/2019

			PLUMBING EXPANSION TANK				
Mark	Manufacturer	Model	Description	Max Working Water Pressure	Max Working Water Temperature	Type Comments	Tank Volume
EX1	Zurn Wilkins	XT-8	Designed for installation on potable water lines between the backflow preventer or pressure reducing valve and the water heater to protect against water thermal expansion. When system pressure increases, water enters the tank's polypropylene lined water chamber which expands a diaphragm into a pre-charged air chamber, keeping system pressure below the relief valve setting.	150.00 psi	200 °F	End connections Threaded NPT ANSI B1.20.1	2.1 Gal
EX2	Zurn Wilkins	XT-8	Designed for installation on potable water lines between the backflow preventer or pressure reducing valve and the water heater to protect against water thermal expansion. When system pressure increases, water enters the tank's polypropylene lined water chamber which expands a diaphragm into a pre-charged air chamber, keeping system pressure below the relief valve setting.	150.00 psi	200 °F	End connections Threaded NPT ANSI B1.20.1	2.1 Gal
EX3	Zurn Wilkins	XT-8	Designed for installation on potable water lines between the backflow preventer or pressure reducing valve and the water heater to protect against water thermal expansion. When system pressure increases, water enters the tank's polypropylene lined water chamber which expands a diaphragm into a pre-charged air chamber, keeping system pressure below the relief valve setting.	150.00 psi	200 °F	End connections Threaded NPT ANSI B1.20.1	2.1 Gal

			WATER HE	ATER SCHED	JLE			
Mark	Manufacturer	Model	Description	Comments	Total Watts	Gallons per hour at 100 degrees F rise	Voltage/Phase	Tank Capacity
HW1	Rheem	EGSP10	Tank Water Heater	Temperature to be set at 140 degrees F.	6000 W	24	208 V/1	10.0 gal
HW2	Rheem	EGSP10	Tank Water Heater	Temperature to be set at 140 degrees F.	6000 W	24	208 V/1	10.0 gal
HW3	Rheem	EGSP10	Tank Water Heater	Temperature to be set at 140 degrees F.	6000 W	24	208 V/1	10.0 gal

NOTES FOR ALL WATER HEATERS:

1. PROVIDE OPTIONAL WALL MOUNT KIT. 2. PROVIDE HEAT TRAP DEVICE ON INLET AND OUTLET IF HEAT TRAPS ARE NOT INTEGRAL TO THE WATER HEATER.

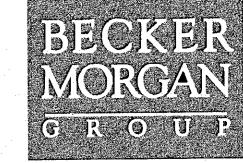
3. PROVIDE DRAIN PAN UNDER EACH WATER HEATER.
4. REFER TO SCHEMATICS ON P501 FOR INSTALLATION AND PIPING GUIDANCE.

						P	UMP S	CHED	ULE						1 44-4 1	Full Load	
Mark	Service	Manufacturer	Series	Model	Description	Discharge Size	Suction Size	Design Flow Rate	Fluid Type	Pump Head (FT)	Rated Speed (RPM)	Voltage	Phase	Frequency	Motor Horse Power	Amps	RPM
RP-1	140 F HOT WATER RECIRCULATION	Taco	Cartridge Circulator	009-SF5	Inline Cartridge Circulator Pump	3/4"	3/4"	5 GPM	Water	17	2650	115 V	1	60 Hz	0.13 hp	1.4 A	3250

NOTE: REFER TO SPECIFICATIONS FOR APPROVED MANUFACTURERS.

					PLUMBING FIXTURE SCHEDULE			· · · · · · · · · · · · · · · · · · ·	
Type	Item Name	Manufacturer	Comments	Model	Description	Accessories and Trim	DCW Connection	DHC Connection	Sanitary Connection
Type Mark P-1	Toilet	American Standard	OR APPROVED EQUAL.	3043.001	'MADERA FloWise ELONGATED 16-1/2" HIGH' Less Everclean Toilet, floor mounted, vitreous china, elongated syphon jet flush action bowl, 2-1/8" fully glazed internal trapway, 10" x 12" large water surface, high efficiency 1.1 GPF to low consumption 1.6 GPF, 1-1/2" top spud and bolt caps, for use with exposed flush valve.				3"
P-1A	Flush Valve	SLOAN	OR APPROVED EQUAL. Install on P-1	Royal 111-1.28	Exposed Water Closet Flushometer, for floor mounted or wall hung 1-1/2" top spud bowls, 1.28 gallons per flush, manual operation.		1 1/2"		
P-1B	Toilet Seat	American Standard	OR APPROVED EQUAL. Install on P-1	5901.100	Toilet Seat, heavy duty solid plastic polypropylene open front less cover, with reinforced stainless steel check hinge, posts, washers and nuts, for elongated bowl.				
P-2	Urinal	American Standard	OR APPROVED EQUAL.	6590.001	'WASHBROOK UNIVERSAL' High Efficiency Urinal, wall hung for flush valve, vitreous china, wash out flush action 0.125 gpf to 1.0 gpf (0.5 lpf to 3.8 lpf), extended sides for privacy, integral flush spreader, 3/4" (19mm) top spud, wall hangers, open trap.	One Urinal shall be mounted at Handicap Height see Arch. Drawings.			2"
P-2A	Flush Valve	SLOAN	OR APPROVED EQUAL.	Royal 186-0.125	Exposed high efficiency urinal flushometer, for 3/4" top spud urinals, 0.125 gallons per flush, manual operation.				
P-3	Lavatory	American Standard	OR APPROVED EQUAL.	Rondalyn 0490.156	Drop-In Sink with Single Faucet Hole, White, vitreous china, drop in, round basin with overflow, 19 inch diameter.				1 1/4"
P-3A	Faucet	Delta Teck- Commercial	OR APPROVED EQUAL.	22C951	Single hole mount with open grid strainer, single lever handle, 0.5 gpm vandal resistant spray outlet, polished chrome - plated finish.		1/2"	1/2"	
P-4	Janitors Sink	Fiat	OR APPROVED EQUAL.	TSB-100	Mop Sink, 24" x 24" x 12" (610mm x 610mm x 305mm) deep, floor mounted, precast terrazzo, with one piece stainless steel cast integral cap on all four sides and Integral S.S. Drain with S.S. strainer, 3" (75mm) outlet.				3"
P-4A	Faucet	T&S Brass and Bronze Works,Inc	OR APPROVED EQUAL.	B-2301	Wall mounted sill faucet w/vacuum breaker, compression cartridge w/spring check, 3/4" hose thread on spout, or	Provide chrome plated grid drain. Provide 5/8" dia. Hose, 48" long, w/stainless steel clamp, DELTA TECK 28T911 or approved equal. Provide stainless steel mop hanger with 3 clamps, DELTA 28T910 or approved equal.	3/4"	3/4	
P-5	Drinking fountain, barrier free bi-level, with bottle filling station.	Elkay Manufacturing	OR APPROVED EQUAL.	LVRCTL8WSK	Mechanical pushbar actuated water cooler. High efficiency, hermetically sealed, R134A refrigerant, 8 GPH at 50°F delivery, stainless steel finish for whole unit, 3.8 FLA, 260 W, 115V, single phase. Provide water shut-off valve and steel pipe carrier.		3/8"		1 1/2"
P-6	Breakroom Sink	Elkay Manufacturing	OR APPROVED EQUAL.	DLR332210	Lustertone Double Bowl Sink, 33"x22"x10-1/8" equal double bowl drop-in sink.	Provide sound deadening coating on bottom.			2"
P-6A	Faucet	Delta Commercial	OR APPROVED EQUAL.	400LF-WF	Classic Single Handle Kitchen Faucet with Spray	Provide stainless steel strainer baskets.	1/2"	1/2"	1 1/2"
P-7	Service Sink	Fiat Products	OR APPROVED EQUAL.	FLTD-II	Floor mounted with white baked enamel steel legs Compression Molded Stone, Twin Tubs.	1 1 1 100 Line Street Line Laborated Deputido 5/00			1 1/2
P-7A	Faucet	T&S Brass and Bronze Works,Inc	OR APPROVED FOUND	B-2301	Wall mounted sill faucet w/vacuum breaker, compression cartridge w/spring check, 3/4" hose thread on spout, or	Provide 1 1/2" drain fittings with stainless steel strainer basket. Provide 5/8" dia. Hose, 48" long, w/stainless steel clamp, DELTA TECK 28T911 or approved equal.	3/4"	3/4	

	PLUMBING SPECIALTIES SCHEDULE										
ype //ark		Manufacturer	Comments	Model	Description	DCW Connection	DHW Connection	Sanitary Connection	Remarks		
1ark)-1	Item Name Floor Drain	Josam Company	With Trap Primer Tap	30003-6A-50	Floor drain, coated cast iron, two piece body, double drainage flange, invertible nonpuncturing flashing collar, weepholes, 6 inch dia. Top, nickel alloy adjustable and removable strainer. Strainer removal shall require a special tool.			3"			
2	Floor Drain	Josam Company			Floor drain, coated cast iron, two piece body, double drainage flange, invertible nonpuncturing flashing collar, weepholes, 7 inch dia. Top, nickel alloy adjustable and removable tractor strainer. Strainer removal shall require a special tool.			3"			
H	Hose Bibb	Woodford			Freezeproof wall hydrant, automatic draining, box type, loose key operated, with vacuum breaker, Woodford b65, or equivalent by Josam, J.R. Smith or Zurn.	4					
	Hose Bibb	Woodford		No. 24	Hose Bibb, chrome plated, loose key operated with integral vacuum breaker and anti-siphon faucet hose connection, Woodford no. 24, or equivalent by crane, Nibco, J.R. Smith, Watts or Wilkins	3/4"					
1	Thermostatic Mixing Valve	Lawler	Provide 3/4" Size	Model 570 Lead Free	Thermostatic Mixing Valve to maintain and limit mixed hot water to a desired, selectable temperature. The valve can be set to any temperature between 80°F and 120°F with flow rates as low as 0.5 gpm and as high as 12 gpm, Lawler or approved equal by Haws, Leonard Water Temperature Controls, or Watts.	3/4"	3/4"		Set to 110 degree F discharge size 3/4"		
Ą	Shock Absorber	Josam	PDI Size A	Series 75000-S	Water Hammer Arrestor. The Arrestor features Lead Free* construction to comply with Lead Free* requirements.						
		Josam	PDI Size D	Series 75000-S	Water Hammer Arrestor. The Arrestor features Lead Free* construction to comply with Lead Free* requirements.						
	Trap Primer	Precision Plumbing Products		P2-500	Trap Primer Valve to be installed on cold water lines of 1-1/2" diameter or less, a pressure drop of 10 psig activates primer valve. Provide DU-U Distribution unit so 2 floor drains can be served.						
1	Water Meter	NEPTUNE TECHNOLOGY GROUP	2" Meter Size	TRU/FLO	Furnished by Mechanical Controls Sub-Contractor, installed by Plumbing Contractor	2"					



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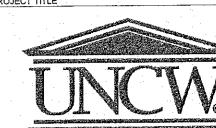
910-343-8007 fax 910-343-8088 SUD ASSOCIATES, P.A.

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office: 919.493.5277 fax: 919.493.5549





UNCW FILM STUDIES

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PLUMBING SCHEDULES

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