

DRAWING LIST

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P102	SANITARY/DOMESTIC WATER DEMOLITION FLOOR PLANS - LEVELS 2 AND 3
P201	SANITARY FLOOR PLANS - LEVELS 0 AND 1
P202	SANITARY FLOOR PLANS - LEVELS 2 AND 3
P211	DOMESTIC WATER FLOOR PLANS - LEVELS 0 AND 1
P212	DOMESTIC WATER FLOOR PLANS - LEVELS 2 AND 3
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P501	PLUMBING DETAILS
P601	PLUMBING SCHEDULES
P701	PLUMBING RISER DIAGRAMS

PLUMBING GENERAL NOTES:

- ESCUICHEONS SHALL BE BRASS OR STEEL ONE PIECE CHROME PLATED FINISH. FLOOR PLATES SHALL BE ONE-PIECE CAST IRON FLANGE WITH HOLES FOR FASTENERS.
- DOMESTIC WATER PIPING (COLD, HOT, AND RECIRC) SHALL HAVE 1" PERFORMED MINERAL FIBER INSULATION.
- ALL EXPOSED PIPING SHALL HAVE 30 MILS THICK WHITE PVC JACKETS.
- DOMESTIC WATER PIPING SHALL BE HARD COPPER TUBE ASTM B 88 TYPE L WATER TUBE.
- PROVIDE WATER HAMMERS SIZED AND PLACED PER ASSE 1010.
- PROVIDE AUTOMATIC PRESSURE DROP ACTIVATED TRAP SEAL PRIMER VALVE PER ASSE 1018. TRAP PRIMER IS CAPABLE OF SUPPLY 4 TRAPS FROM A SINGLE PRIMER.
- SANITARY AND VENT PIPING SHALL BE SERVICE CLASS CAST IRON WITH EITHER GASKETED JOINTS OR HUBLESS WITH SOVENT STACK FITTINGS AND HEAVY DUTY SHIELD STAINLESS STEEL COUPLINGS AND HUBLESS COUPLING JOINTS.
- SUMP PUMP SHALL BE PROVIDED WITH CORD LENGTH AS NECESSARY.

PLUMBING SYMBOLS

RISER DESIGNATIONS

SYMBOL	DESCRIPTION
	DEIONIZED WATER RISER DESIGNATION RISER NUMBER
	INDUSTRIAL / LABORATORY WATER RISER DESIGNATION RISER NUMBER
	LABORATORY WATER RISER DESIGNATION RISER NUMBER
	REVERSE OSMOSIS WATER RISER DESIGNATION RISER NUMBER
	SANITARY RISER DESIGNATION (S, V) RISER NUMBER
	STORM WATER RISER DESIGNATION RISER NUMBER
	DOMESTIC WATER RISER DESIGNATION (CW, HW, HWR) RISER NUMBER

EQUIPMENT DESIGNATIONS

SYMBOL	DESCRIPTION
AD.X	AREA DRAIN DESIGNATION
ET.X	EXPANSION TANK DESIGNATION
FD.X	FLOOR DRAIN DESIGNATION
FS.X	FLOOR SINK DESIGNATION
GI.X	GREASE INTERCEPTOR DESIGNATION
GRU.X	GREASE RECOVERY UNIT DESIGNATION
HWG.X	HOT WATER GENERATOR DESIGNATION
OI.X	OIL INTERCEPTOR DESIGNATION
P.X	PLUMBING FIXTURE DESIGNATION
ROF.X	ROOF / OVERFLOW DRAIN DESIGNATION
REC.X	RECIRCULATING PUMP DESIGNATION
SE.X	SEWAGE EJECTOR DESIGNATION
SP.X	SUMP PUMP DESIGNATION
WB.X	WATER BOOSTER PUMP DESIGNATION
WM.X	WATER METER DESIGNATION
WH.X	WATER HEATER DESIGNATION

RISER DIAGRAM COMPONENTS AND SPECIALTIES

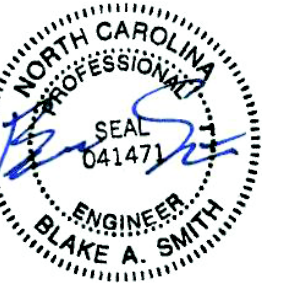
SYMBOL	DESCRIPTION
	BACKFLOW PREVENTER
	EMERGENCY EYE WASH STATION
	EMERGENCY SHOWER
	SHOCK ARRESTER
	VACUUM BREAKER
	VENT THROUGH ROOF
	TRAP ARM
	URINAL / WATER CLOSET (WALL MOUNTED)
	URINAL / WATER CLOSET (FLOOR MOUNTED)
	FLOOR / ROOF DRAIN
	CLEAN OUT (WALL / PIPE)
	CLEAN OUT (FLOOR)

COMPONENTS AND SPECIALTIES

SYMBOL	DESCRIPTION
	BACKWATER VALVE
	BACKFLOW PREVENTER (DUAL CHECK TYPE)
	BACKFLOW PREVENTER (REDUCED PRESSURE TYPE)
	CLEAN OUT (WALL / PIPE)
	CLEAN OUT (FLOOR)
	COLD WATER INTERIOR HOSE BIB
	EXTERIOR WALL HYDRANT (FREEZE PROOF)
	HOSE END DRAIN VALVE
	AREA DRAIN
	FLOOR DRAIN
	FLOOR DRAIN WITH TRAP PRIMING LINE
	FLOOR SINK
	ROOF DRAIN
	ROOF OVERFLOW DRAIN
	RO / DI WATER OUTLET
	EMERGENCY EYEWASH (HANDHELD)
	SHOCK ARRESTER WITH ACCESS DOOR
	TEMPERING VALVE
	WATER METER

PIPING SYMBOLS

SYMBOL	DESCRIPTION
	ANTI-FREEZE (GLYCOL) PIPING
	AUTOMOTIVE LUBRICATING PIPING
	DEIONIZED WATER RETURN
	DEIONIZED WATER SUPPLY
	DISTILLED WATER
	DOMESTIC COLD WATER (POTABLE)
	DOMESTIC HOT WATER
	DOMESTIC HOT WATER RECIRCULATION
	DRAIN WATER, MISCELLANEOUS DRAINAGE
	FOUNDATION DRAIN
	INDUSTRIAL / LABORATORY COLD WATER
	INDUSTRIAL / LABORATORY HOT WATER
	LIQUID PROPANE
	LABORATORY VENT
	LABORATORY WASTE
	MOTOR OIL PIPING
	NATURAL GAS
	OVERFLOW DRAIN
	PUMP DISCHARGE
	RELIEF VENT
	REVERSE OSMOSIS RETURN
	REVERSE OSMOSIS SUPPLY
	SANITARY
	SOFT WATER
	STORM DRAIN
	TEMPERED WATER RETURN
	TEMPERED WATER SUPPLY
	VENT



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09.11.2018

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PROJECT TEAM  
PRINCIPAL IN CHARGE  
ALAN CAVE, P.E.  
PROJECT MANAGER  
BLAKE SMITH, P.E.

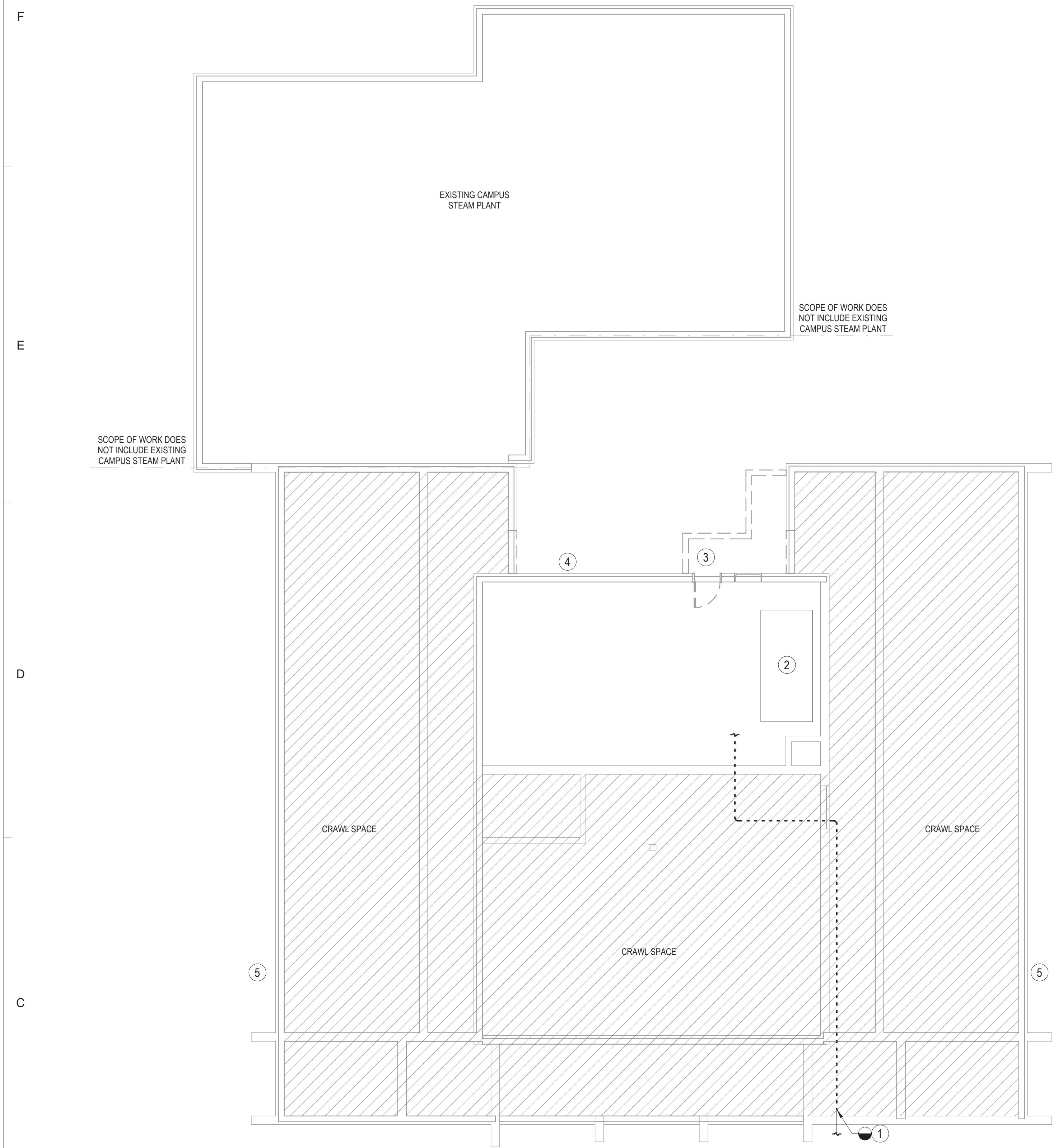
DESIGN TEAM  
RMF

PROJECT NAME  
CAMPBELL UNIVERSITY  
DAY HALL RENOVATIONS

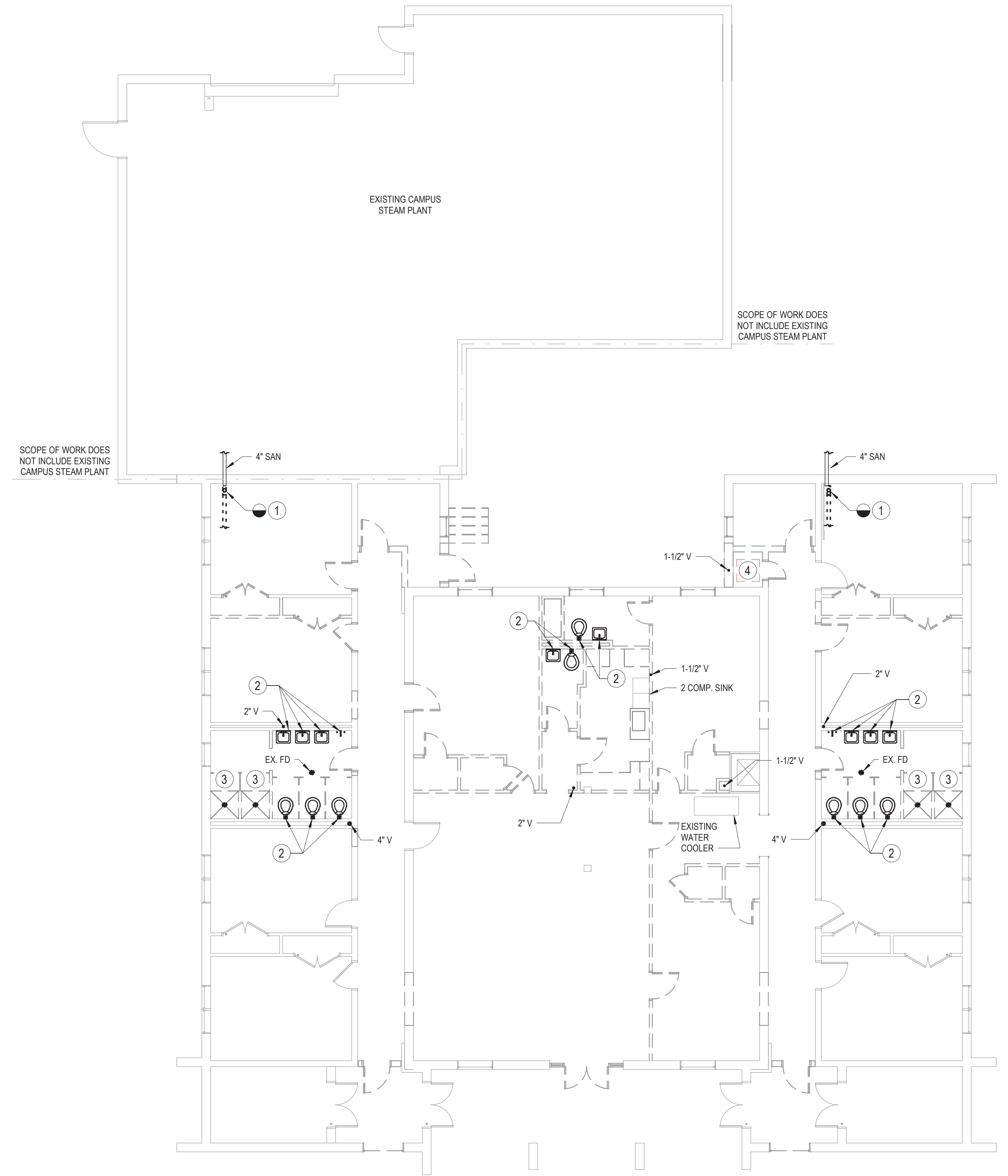
PROJECT NO.  
513.9660.00

SHEET TITLE  
PLUMBING NOTES,  
SYMBOLS AND  
ABBREVIATIONS

SHEET NUMBER  
P001



**1 LEVEL 0 - SANITARY/DOMESTIC WATER DEMOLITION**  
SCALE: 1/8" = 1'-0"



**2 LEVEL 1 - SANITARY/DOMESTIC WATER DEMOLITION**  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

1. ALL DOMESTIC WATER PIPING SHOWN ON THIS FLOOR PLAN LOCATED WITHIN CRAWL SPACE OR BASEMENT MECHANICAL ROOM.
2. DEMOLISH ALL DOMESTIC WATER, SANITARY AND VENT PIPING ON THIS FLOOR UNLESS OTHERWISE NOTED.

**SHEET NOTES**

1. DISCONNECT AND REMOVE EXISTING CW PIPING MAIN BACK TO CRAWL SPACE WALL AND CAP PIPE FOR NEW PIPING CONNECTION. ALL DOWN STREAM DOMESTIC WATER PIPING WITHIN THE BUILDING TO BE DEMOLISHED UNLESS NOTED OTHERWISE.
2. EXISTING STEAM TO HOT WATER HEAT EXCHANGER FOR DOMESTIC WATER PRODUCTION TO REMAIN - ABANDON IN PLACE. DISCONNECT ALL ASSOCIATED STEAM AND CONDENSATE PIPING AND ISOLATE BACK IN STEAM PLANT.
3. DISCONNECT AND REMOVE EXISTING SLUMP PUMP FOR BASEMENT ENTRY STAIRS. CONTRACTOR TO TEST PUMP OPERATION. NOTIFY ARCHITECT/ENGINEER IF PUMP FAILS TO OPERATE.
4. DEMOLISH EXISTING WALL HYDRANT.
5. EXISTING WALL HYDRANT TO REMAIN. DEMOLISH PIPING CONNECTIONS.

**GENERAL NOTES**

1. ALL SANITARY PIPING SHOWN ON THIS FLOOR PLAN LOCATED IN CRAWL SPACE OR BASEMENT MECHANICAL ROOM AREA.
2. ALL DOMESTIC WATER PIPING AND VENTS SHOWN ON THIS FLOOR PLAN LOCATED IN WALLS OR ABOVE CEILING ON THIS LEVEL.
3. DEMOLISH ALL DOMESTIC WATER, SANITARY AND VENT PIPING ON THIS FLOOR UNLESS OTHERWISE NOTED.

**SHEET NOTES**

1. DEMOLISH EXISTING 4" SANITARY MAIN TO CRAWL SPACE WALL AND CAP PIPE FOR NEW PIPING CONNECTION. ALL UPSTREAM SANITARY PIPING WITHIN THE BUILDING TO BE DEMOLISHED UNLESS NOTED OTHERWISE.
2. EXISTING PLUMBING FIXTURE TO BE DEMOLISHED ALONG WITH ALL SUPPORTS, SANITARY, VENT, AND DOMESTIC WATER PIPING.
3. EXISTING SHOWER DRAINS AND FAUCETS TO BE DEMOLISHED. PIPING CONNECTS TO BE DEMOLISHED.
4. EXISTING JANITOR SINK TO BE DEMOLISHED.



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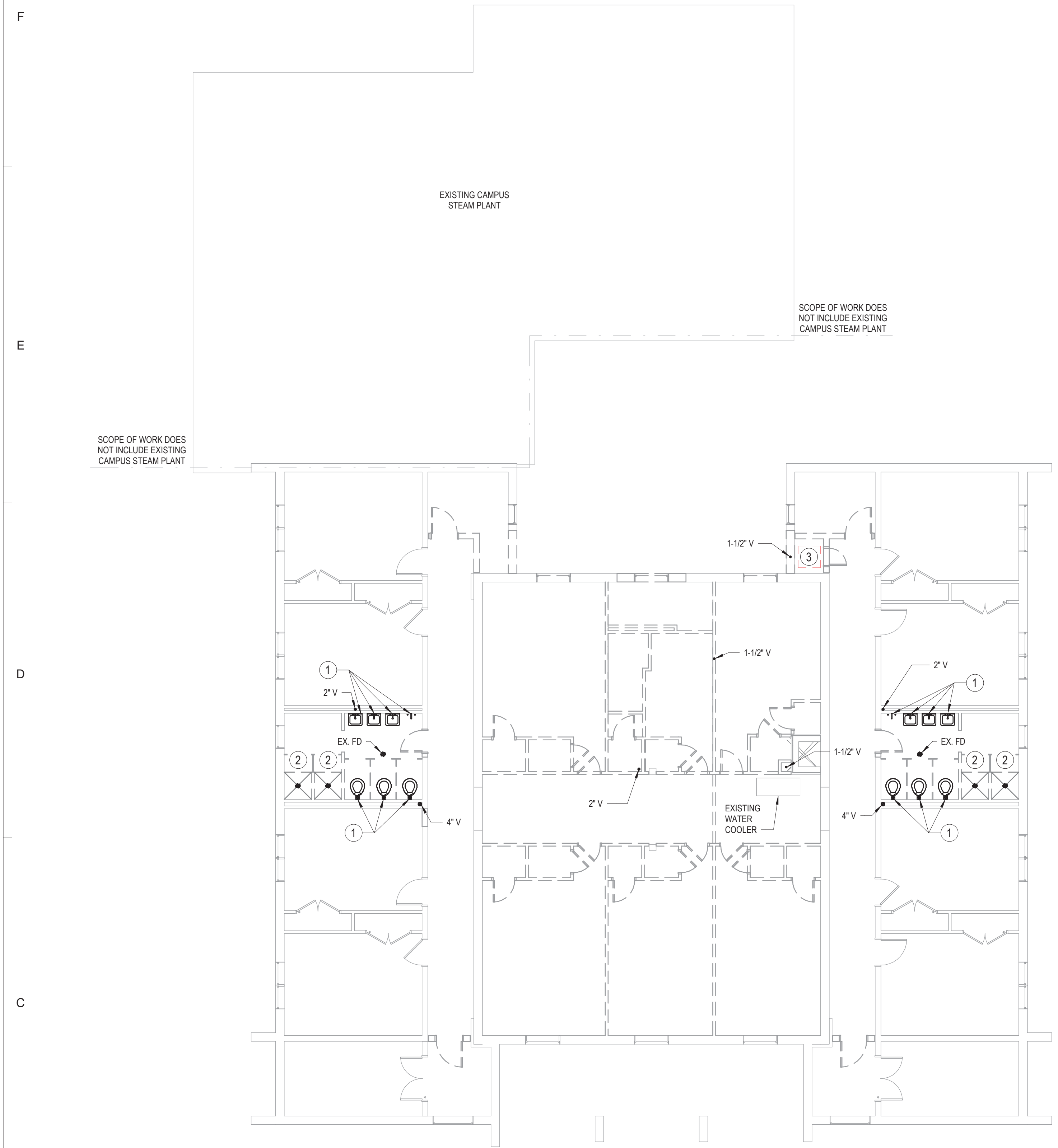
PROJECT TEAM  
PRINCIPAL IN CHARGE  
**ALAN CAVE, P.E.**  
PROJECT MANAGER  
**BLAKE SMITH, P.E.**  
DESIGN TEAM  
**RMI**  
PROJECT NAME

**CAMPBELL UNIVERSITY DAY HALL RENOVATIONS**

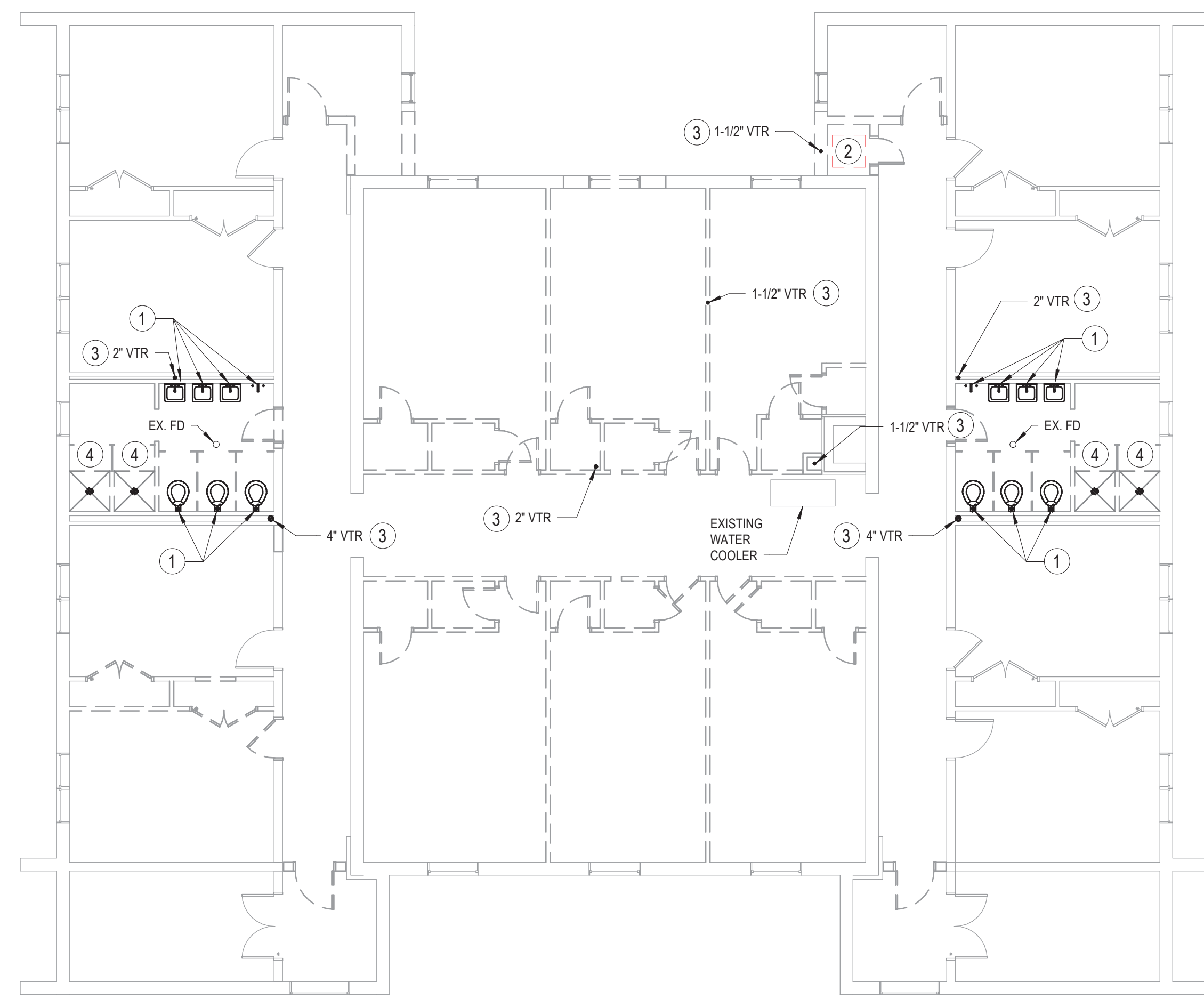
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**513.9660.00**

SHEET TITLE  
**SANITARY/DOMESTIC WATER DEMOLITION FLOOR PLANS - LEVELS 0 AND 1**

SHEET NUMBER  
**P101**



**1** LEVEL 2 - SANITARY/DOMESTIC WATER DEMOLITION  
SCALE: 1/8" = 1'-0"



**2** LEVEL 3 - SANITARY/DOMESTIC WATER DEMOLITION  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

- DEMOLISH ALL DOMESTIC WATER, SANITARY AND VENT PIPING ON THIS FLOOR UNLESS OTHERWISE NOTED.

**SHEET NOTES**

- EXISTING PLUMBING FIXTURE TO BE DEMOLISHED ALONG WITH ALL SUPPORTS, SANITARY, VENT, AND DOMESTIC WATER PIPING.
- EXISTING SHOWER DRAINS AND FAUCETS TO BE DEMOLISHED. PIPING CONNECTS TO BE DEMOLISHED.
- EXISTING JANITOR SINK TO BE DEMOLISHED.

**GENERAL NOTES**

- DEMOLISH ALL DOMESTIC WATER, SANITARY AND VENT PIPING ON THIS FLOOR UNLESS OTHERWISE NOTED.

**SHEET NOTES**

- EXISTING PLUMBING FIXTURE TO BE DEMOLISHED ALONG WITH ALL SUPPORTS, SANITARY, VENT, AND DOMESTIC WATER PIPING.
- EXISTING JANITOR SINK TO BE DEMOLISHED.
- EXISTING SANITARY VTR TO REMAIN. DEMOLISH EXISTING PIPING BELOW ROOF AND CAP FOR FUTURE PIPING CONNECTION.
- EXISTING SHOWER DRAINS AND FAUCETS TO BE DEMOLISHED. PIPING CONNECTS TO BE DEMOLISHED.



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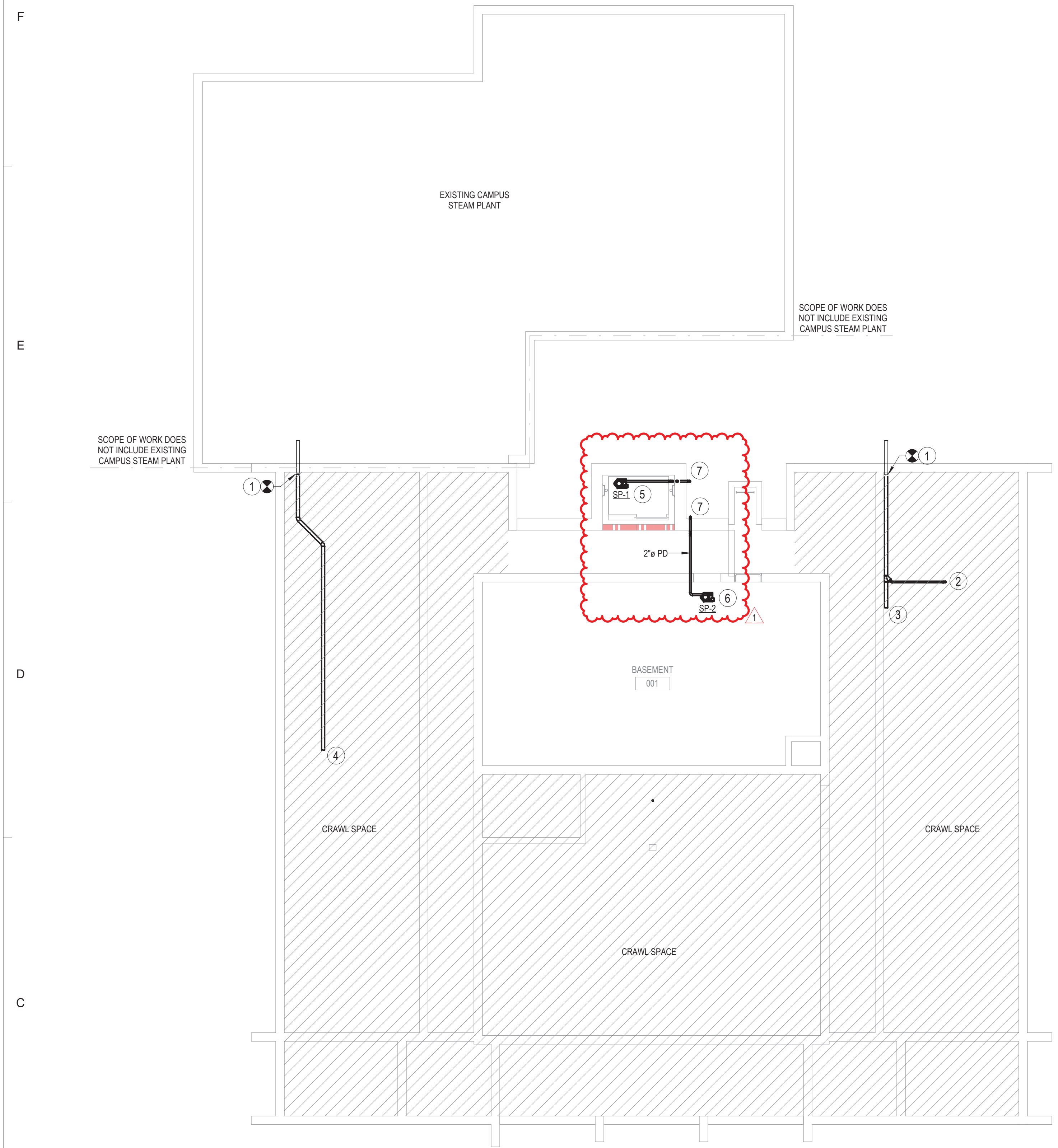
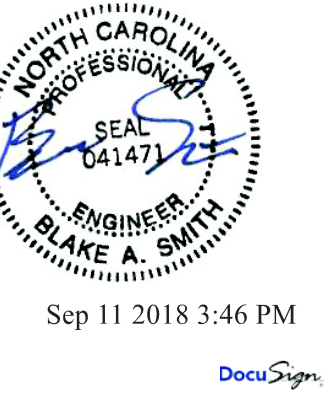
PROJECT TEAM  
PRINCIPAL IN CHARGE  
**ALAN CAVE, P.E.**  
PROJECT MANAGER  
**BLAKE SMITH, P.E.**  
DESIGN TEAM  
**RNF**

PROJECT NAME  
**CAMPBELL UNIVERSITY DAY HALL RENOVATIONS**

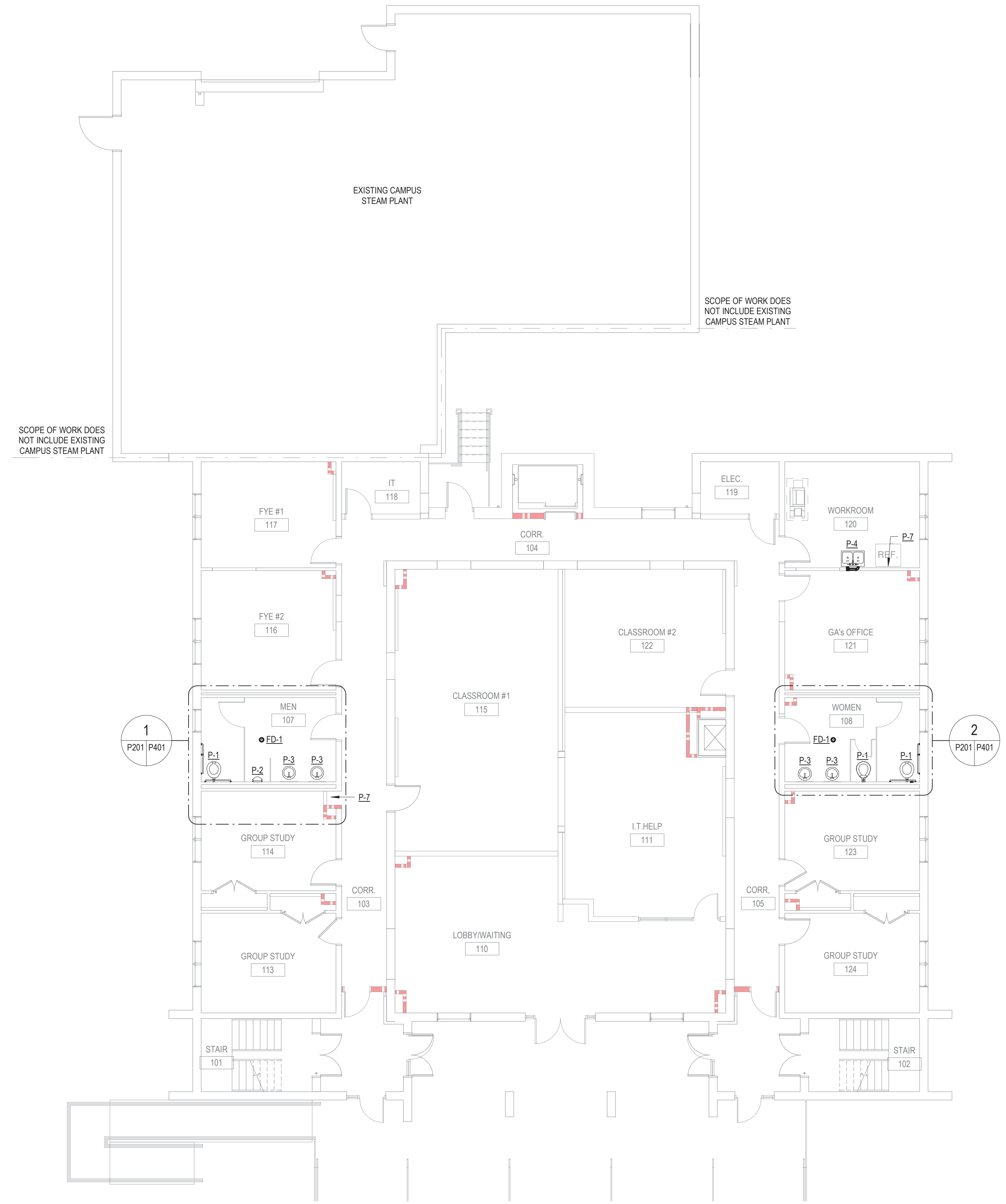
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**513.9660.00**

SHEET TITLE  
**SANITARY/DOMESTIC WATER DEMOLITION FLOOR PLANS - LEVELS 2 AND 3**

SHEET NUMBER  
**P102**



**1 LEVEL 0 - SANITARY PLAN**  
SCALE: 1/8" = 1'-0"



**2 LEVEL 1 - SANITARY PLAN**  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

- 1. SEE COVER SHEET GENERAL NOTES.

**SHEET NOTES**

- 1. CONNECT NEW 4" SANITARY PIPING TO EXISTING PIPING IN CRAWL SPACE. SEE FIRST FLOOR PLAN FOR SANITARY PIPING ROUTED IN CRAWL SPACE.
- 2. CONNECT TO P-4 FIXTURE IN WORKROOM 120.
- 3. UP TO RESTROOM FIXTURES IN WOMEN 108. SEE ENLARGED PLUMBING PLANS FOR CONNECTIONS.
- 4. UP TO FIXTURES ON WEST SIDE OF BUILDING. SEE ENLARGED PLUMBING PLANS FOR CONNECTIONS.
- 5. ELEVATOR SUMP PUMP.
- 6. SEE DETAIL 1P901 FOR MECHANICAL ROOM SUMP PUMP INSTALLATION AND ARCHITECTURAL DRAWINGS FOR SUMP PUMP FIT.
- 7. 2" PD FROM SUMP PUMP TO DAYLIGHT 18" ABOVE FINISH GRADE.

**GENERAL NOTES**

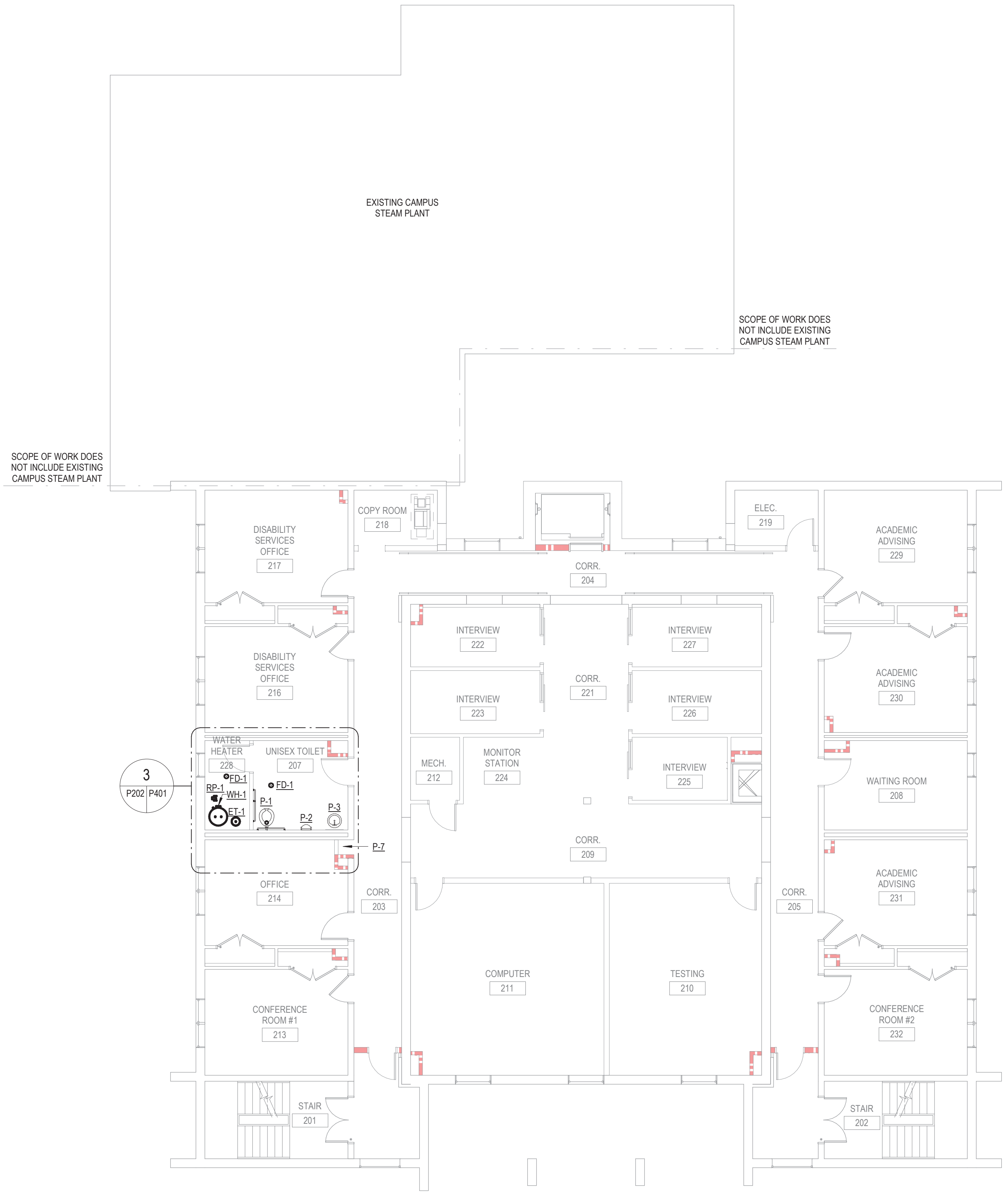
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**SHEET NOTES**

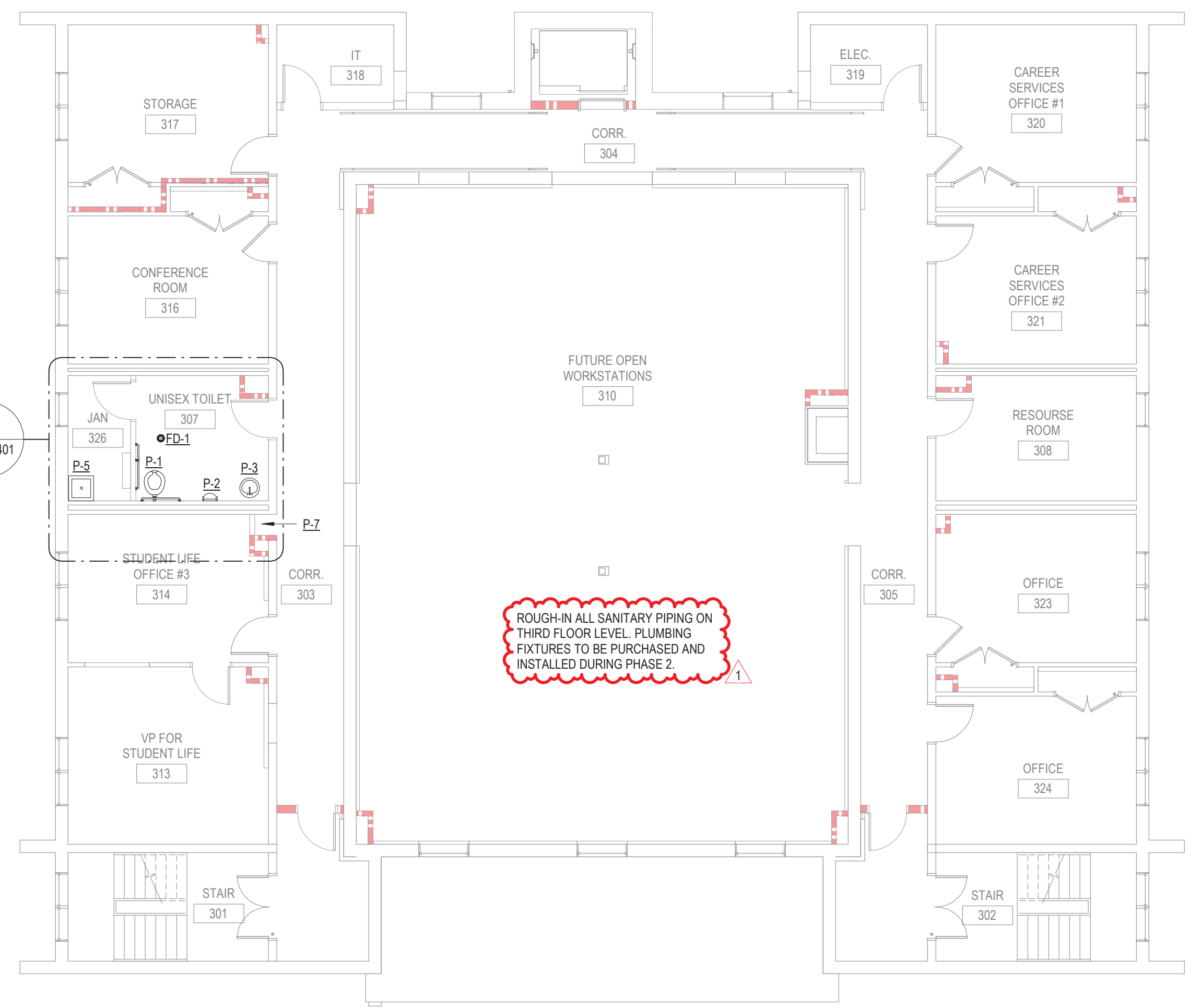
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<b>ISSUE DATE</b> 09.11.2018		
<b>REVISIONS</b>	<b>REASON</b>	<b>DATE</b>
1	AV Revisions by Owner and Quality Control	08.20.18
<b>PROJECT TEAM</b>		
PRINCIPAL IN CHARGE <b>ALAN CAVE, P.E.</b>		
PROJECT MANAGER <b>BLAKE SMITH, P.E.</b>		
DESIGN TEAM <b>RMI</b>		
<b>PROJECT NAME</b> CAMPBELL UNIVERSITY DAY HALL RENOVATIONS		
<b>PROJECT NO.</b> 513.9660.00		
<b>SHEET TITLE</b> SANITARY FLOOR PLANS - LEVELS 0 AND 1		
<b>SHEET NUMBER</b> P201		



**1 LEVEL 2 - SANITARY PLAN**  
SCALE: 1/8" = 1'-0"



**2 LEVEL 3 - SANITARY PLAN**  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

- 1. SEE COVER SHEET GENERAL NOTES.

**SHEET NOTES**

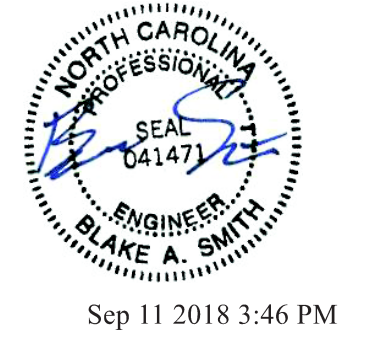
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**GENERAL NOTES**

- 1. SEE COVER SHEET GENERAL NOTES.

**SHEET NOTES**

- 1. NOT USED.



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09.11.2018

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1	Revisions by Owner	09.11.18

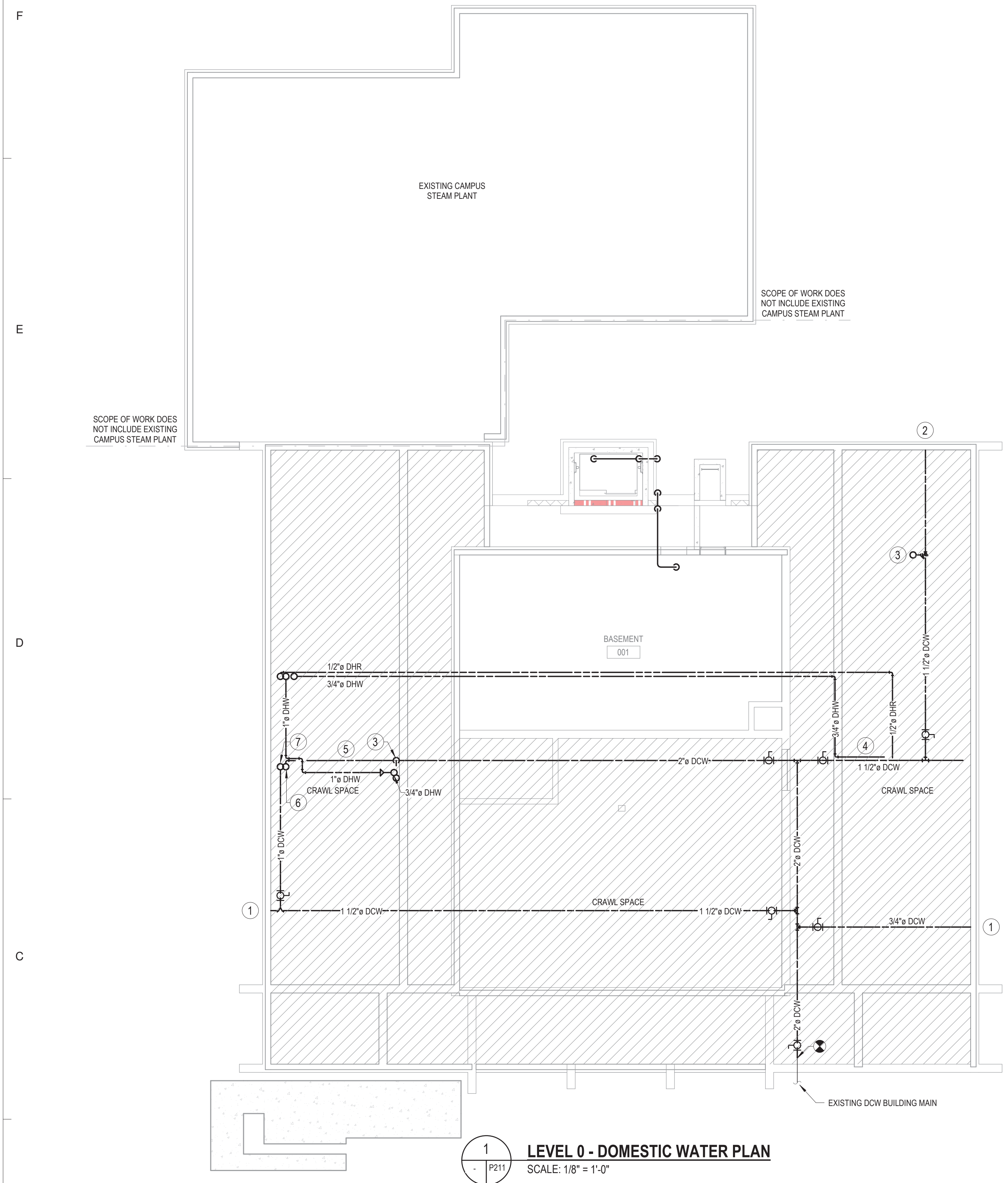
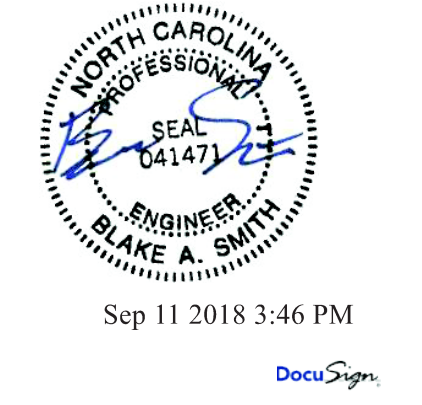
**PROJECT TEAM**  
PRINCIPAL IN CHARGE  
ALAN CAVE, P.E.  
PROJECT MANAGER  
BLAKE SMITH, P.E.  
DESIGN TEAM  
RMI

**PROJECT NAME**  
CAMPBELL UNIVERSITY  
DAY HALL RENOVATIONS

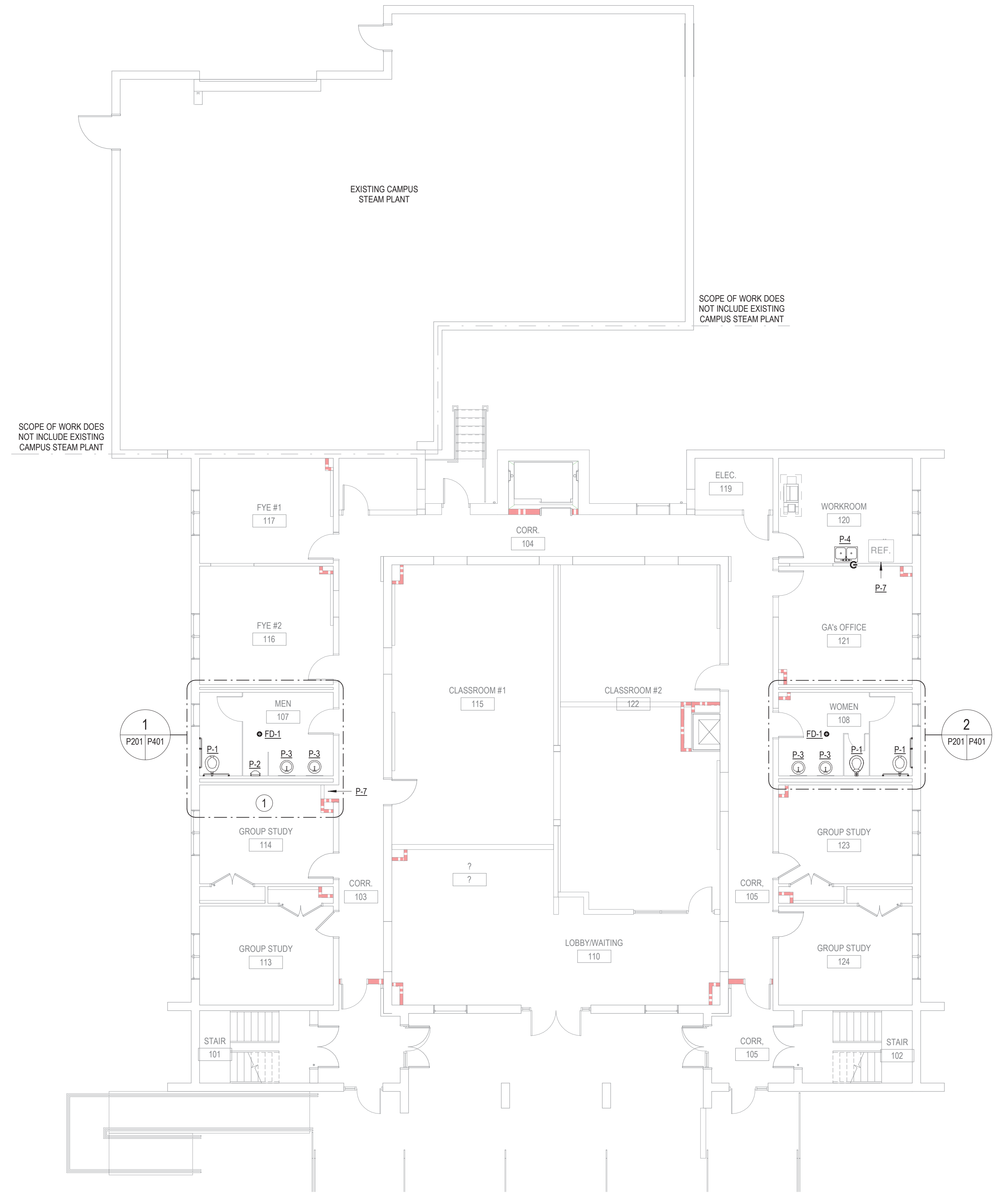
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513.9660.00

**SHEET TITLE**  
SANITARY FLOOR PLANS -  
LEVELS 2 AND 3

**SHEET NUMBER**  
P202



**1 LEVEL 0 - DOMESTIC WATER PLAN**  
SCALE: 1/8" = 1'-0"



**2 LEVEL 1 - DOMESTIC WATER PLAN**  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

- 1. SEE COVER SHEET GENERAL NOTES.

**SHEET NOTES**

- 1 NEW DOMESTIC COLD WATER PIPING CONNECTION TO EXISTING WALL HYDRANT.
- 2 NEW WALL HYDRANT AND PIPING.
- 3 DOMESTIC COLD WATER UP TO P-4 AND P-2 FIXTURES.
- 4 SERVE FIXTURES IN WOMEN 108 FROM CRAWL SPACE. SEE RISER DIAGRAM.
- 5 SERVE FIXTURES IN MEN 107 FROM CRAWL SPACE. SEE RISER DIAGRAM.
- 6 RISER UP TO THIRD FLOOR TO SERVE STACKED RESTROOMS. SEE RISER DIAGRAM.
- 7 DOMESTIC COLD WATER UP TO ELECTRIC WATER HEATER. SEE RISER DIAGRAM AND DETAIL.

**GENERAL NOTES**

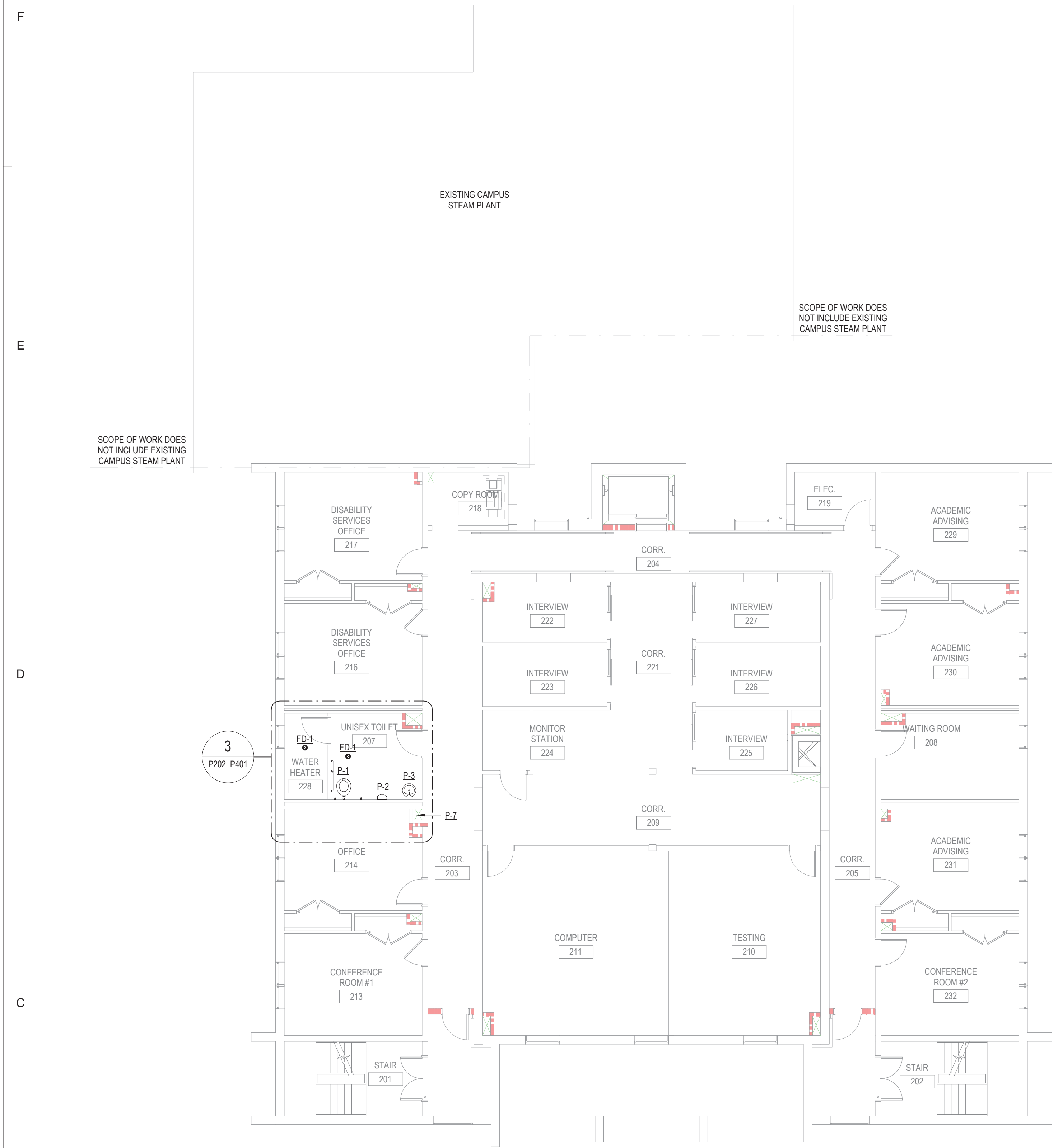
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**SHEET NOTES**

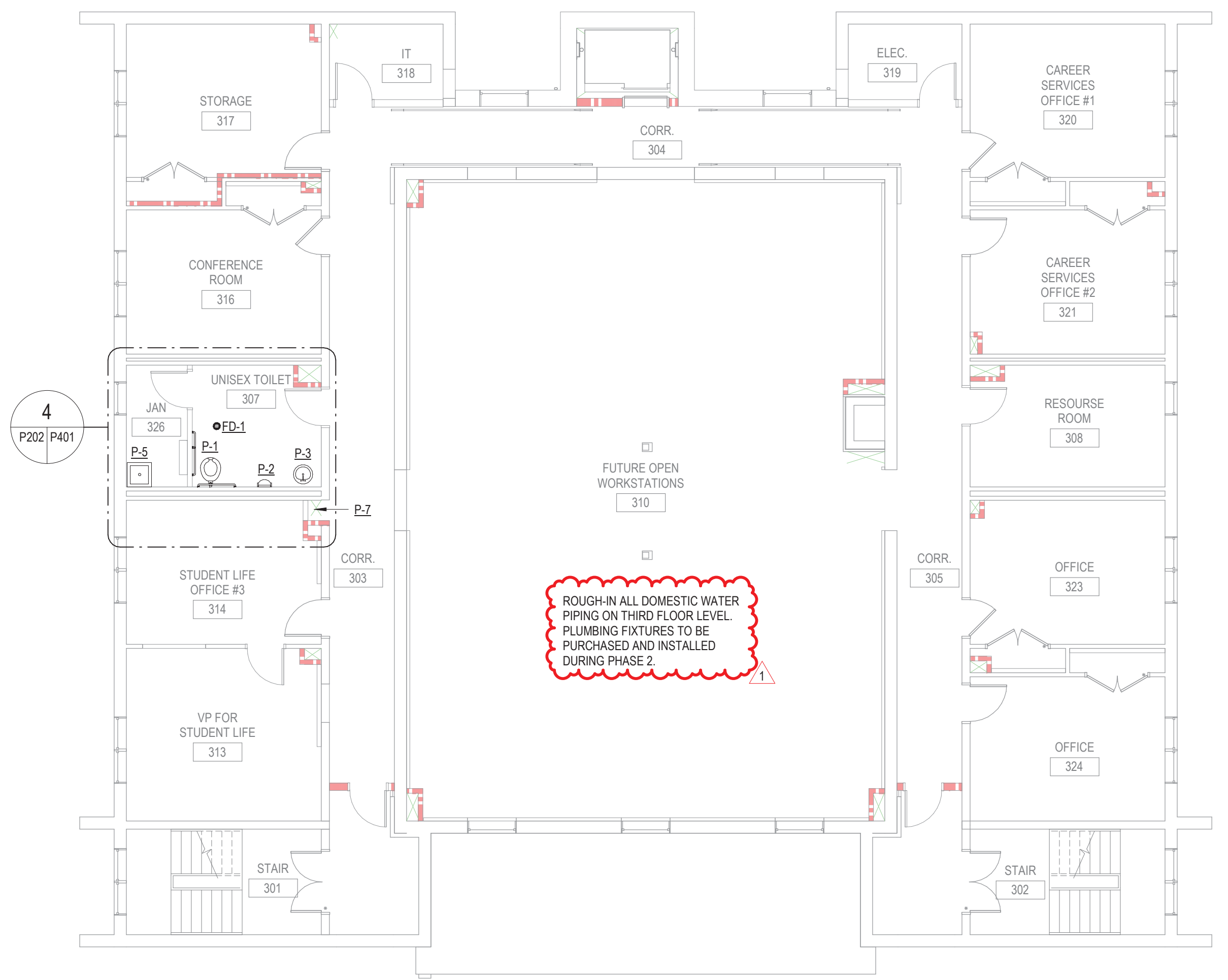
- 1 DOMESTIC HOT WATER RISER FROM CRAWL SPACE UP TO THIRD FLOOR.

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PROJECT TEAM		
PRINCIPAL IN CHARGE ALAN CAVE, P.E.		
PROJECT MANAGER BLAKE SMITH, P.E.		
DESIGN TEAM RMI		
PROJECT NAME CAMPBELL UNIVERSITY DAY HALL RENOVATIONS		
PROJECT NO. 513.9660.00		
SHEET TITLE DOMESTIC WATER FLOOR PLANS - LEVELS 0 AND 1		
SHEET NUMBER P211		



**1 LEVEL 2 - DOMESTIC WATER PLAN**  
SCALE: 1/8" = 1'-0"



**2 LEVEL 3 - DOMESTIC WATER PLAN**  
SCALE: 1/8" = 1'-0"

**GENERAL NOTES**

- 1. SEE COVER SHEET GENERAL NOTES.

**SHEET NOTES**

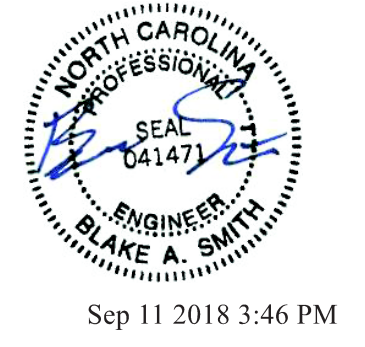
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**GENERAL NOTES**

- 1. SEE COVER SHEET GENERAL NOTES.

**SHEET NOTES**

- 1. NOT USED.



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**ISSUE FOR PERMIT SET**

ISSUE DATE: 09.11.2018

REVISIONS NO. REASON DATE

1 Revisions by Owner 09.11.18

**PROJECT TEAM**

PRINCIPAL IN CHARGE: ALAN CAVE, P.E.  
PROJECT MANAGER: BLAKE SMITH, P.E.

DESIGN TEAM: RMI

PROJECT NAME: CAMPBELL UNIVERSITY DAY HALL RENOVATIONS

PROJECT NO.: 513.9660.00

SHEET TITLE: DOMESTIC WATER FLOOR PLANS - LEVELS 2 AND 3

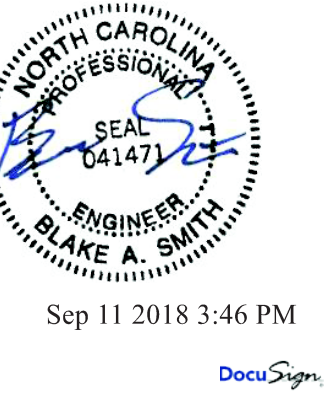
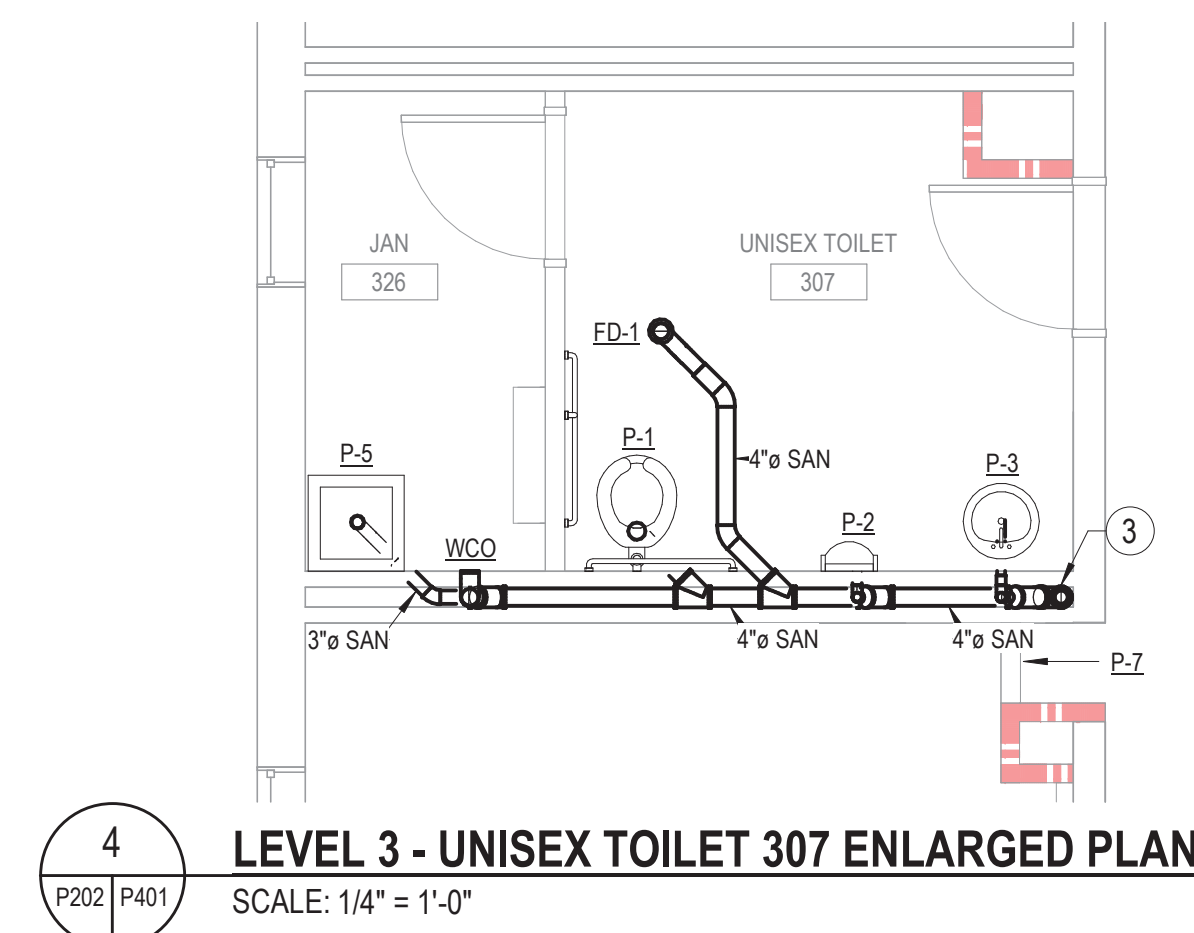
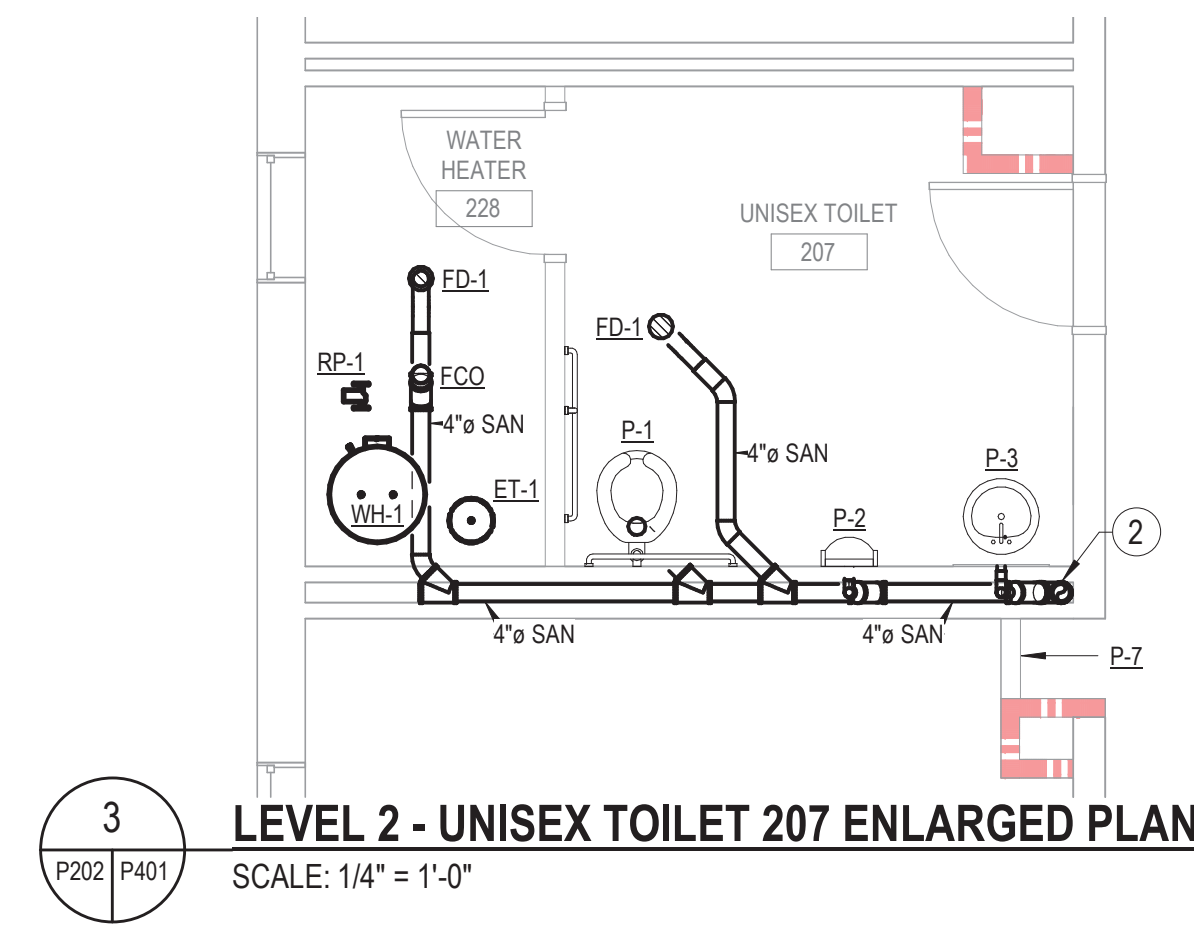
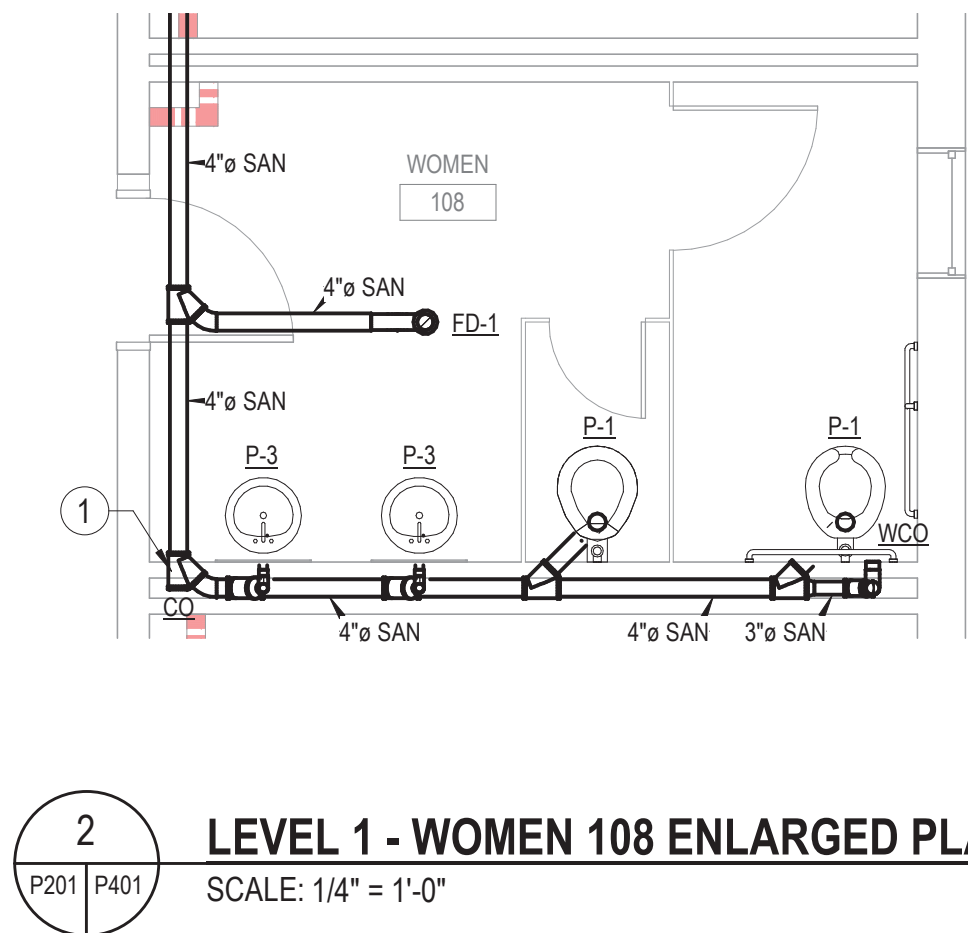
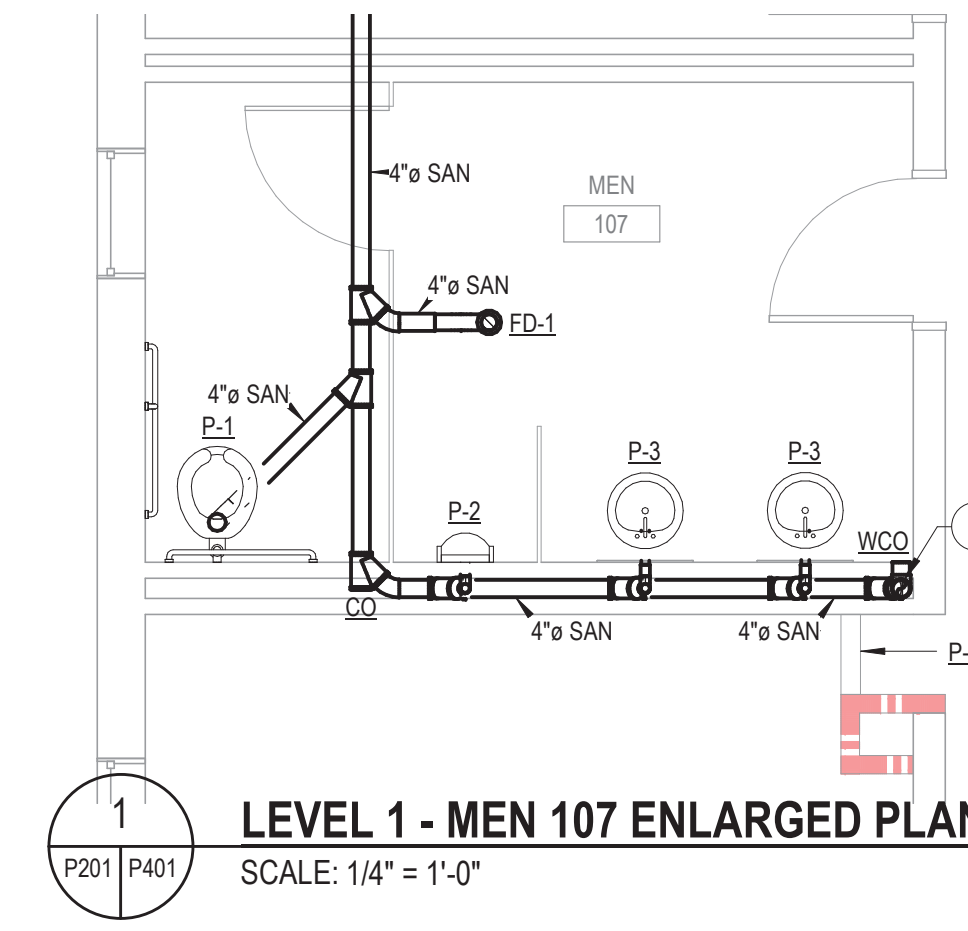
SHEET NUMBER: P212

**GENERAL NOTES**

1. SEE DETAIL FOR TRAP PRIMER INSTALLATION FOR FLOOR DRAIN TRAPS.
2. ROUGH-IN ALL SANITARY AND DOMESTIC WATER PIPING ON THIRD FLOOR LEVEL. PLUMBING FIXTURES TO BE PURCHASED AND INSTALLED DURING PHASE 2.

**SHEET NOTES**

- ① 4" SANITARY PIPE UP TO SECOND FLOOR. PROVIDE CLEANOUT IN CRAWL SPACE - SEE RISER DIAGRAM.
- ② 4" SANITARY PIPE UP TO THIRD FLOOR FIXTURES AND DOWN TO FIRST FLOOR - SEE RISER DIAGRAM.
- ③ 4" VENT UP TO EXISTING ROOF VENT.



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PROJECT TEAM  
PRINCIPAL IN CHARGE  
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PROJECT MANAGER  
**BLAKE SMITH, P.E.**  
DESIGN TEAM  
**RMI**

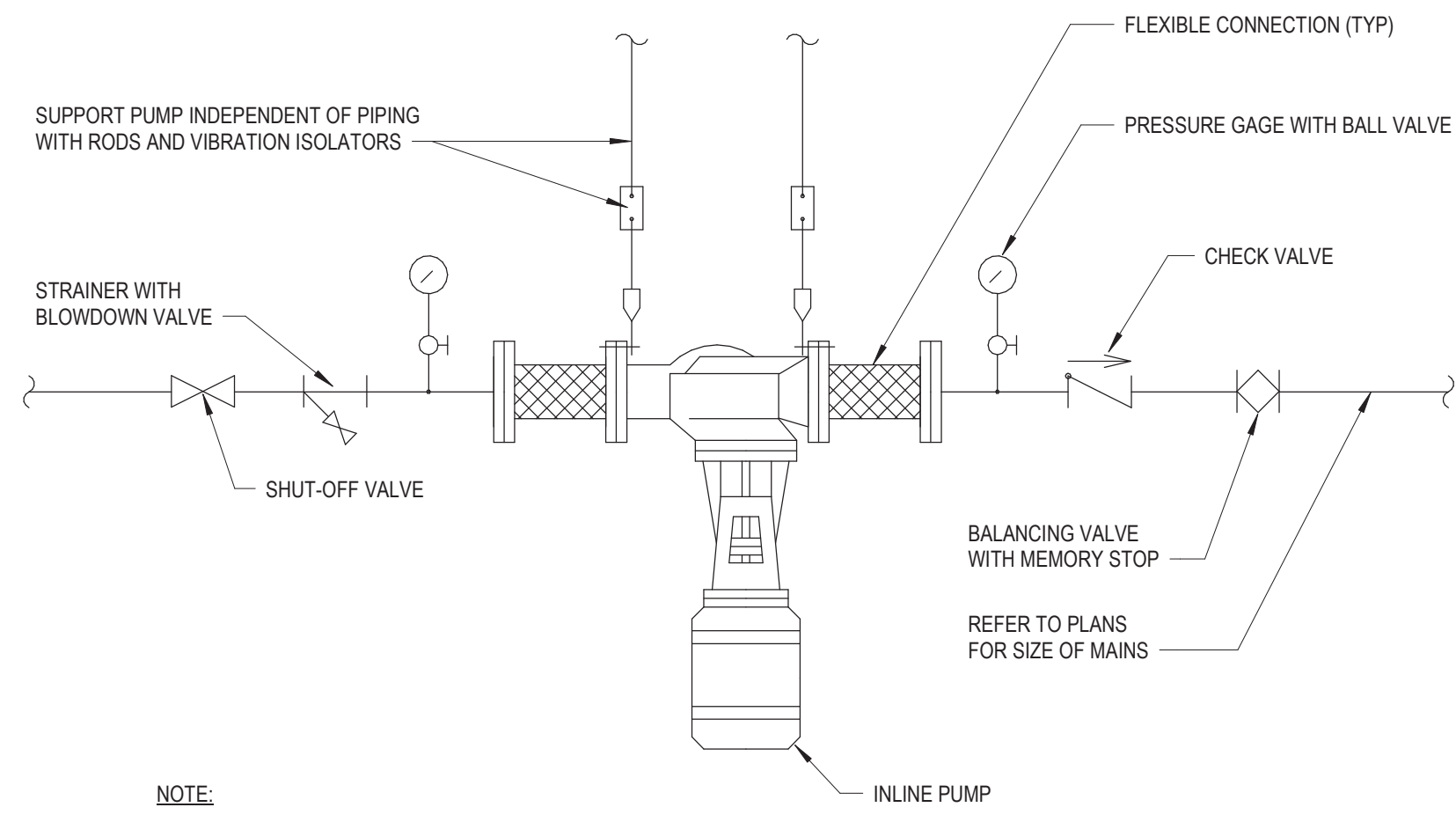
PROJECT NAME  
**CAMPBELL UNIVERSITY  
DAY HALL RENOVATIONS**

PROJECT NO.  
**513.9660.00**

SHEET TITLE  
**PLUMBING ENLARGED  
PLANS**

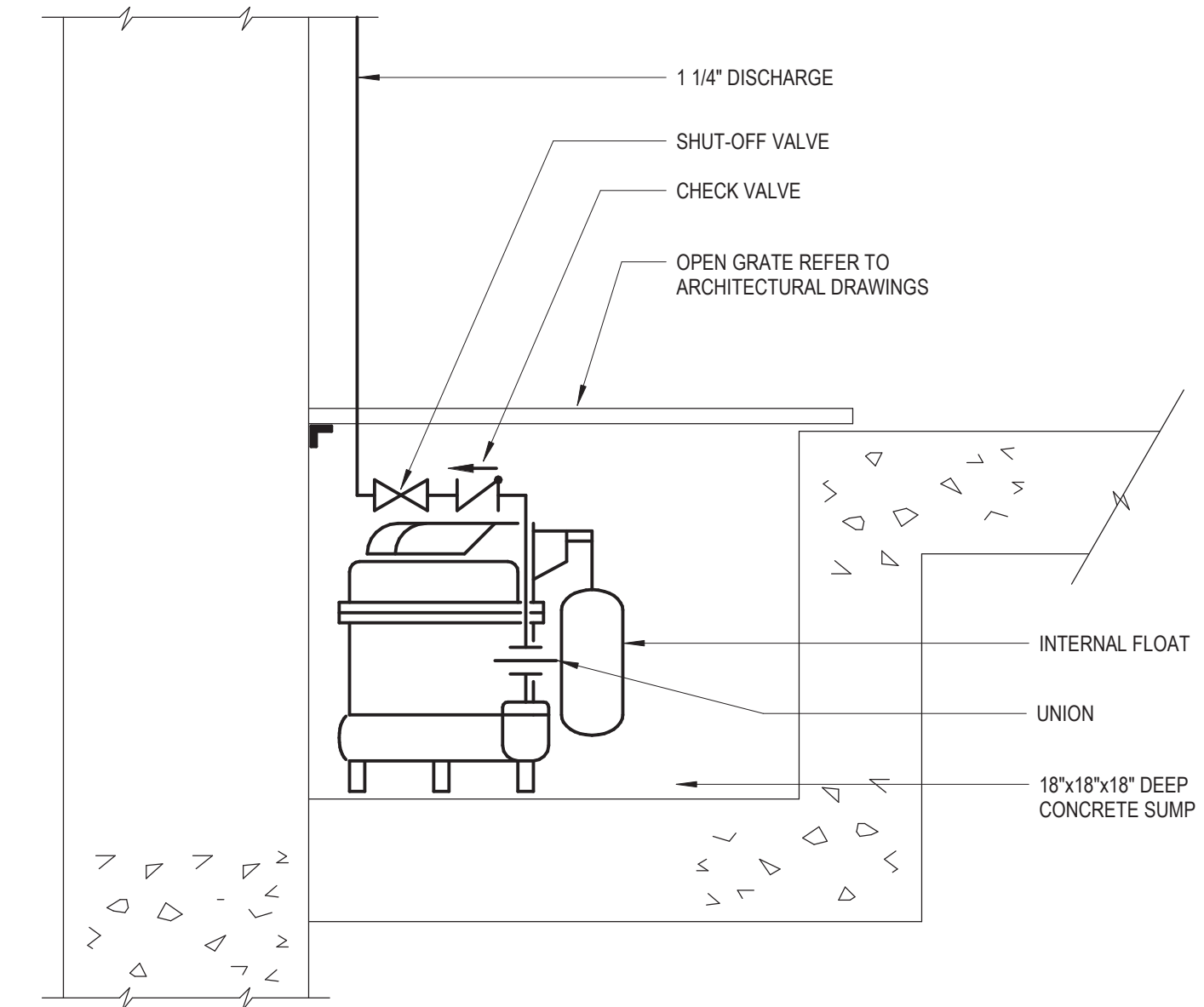
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**P401**



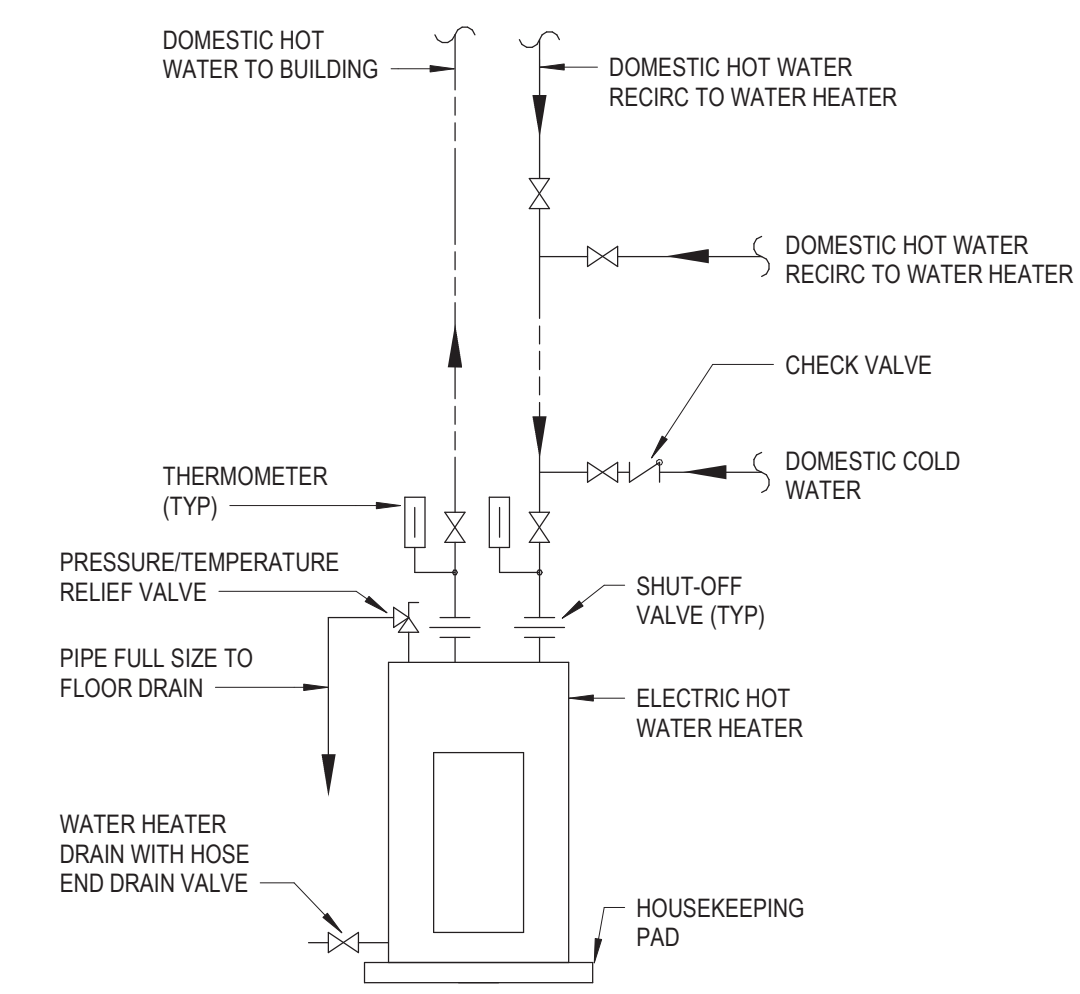


NOTE:  
1. PUMP SHALL BE INSTALLATION HORIZONTAL OR VERTICAL AS REQUIRED BY PUMP MANUFACTURER

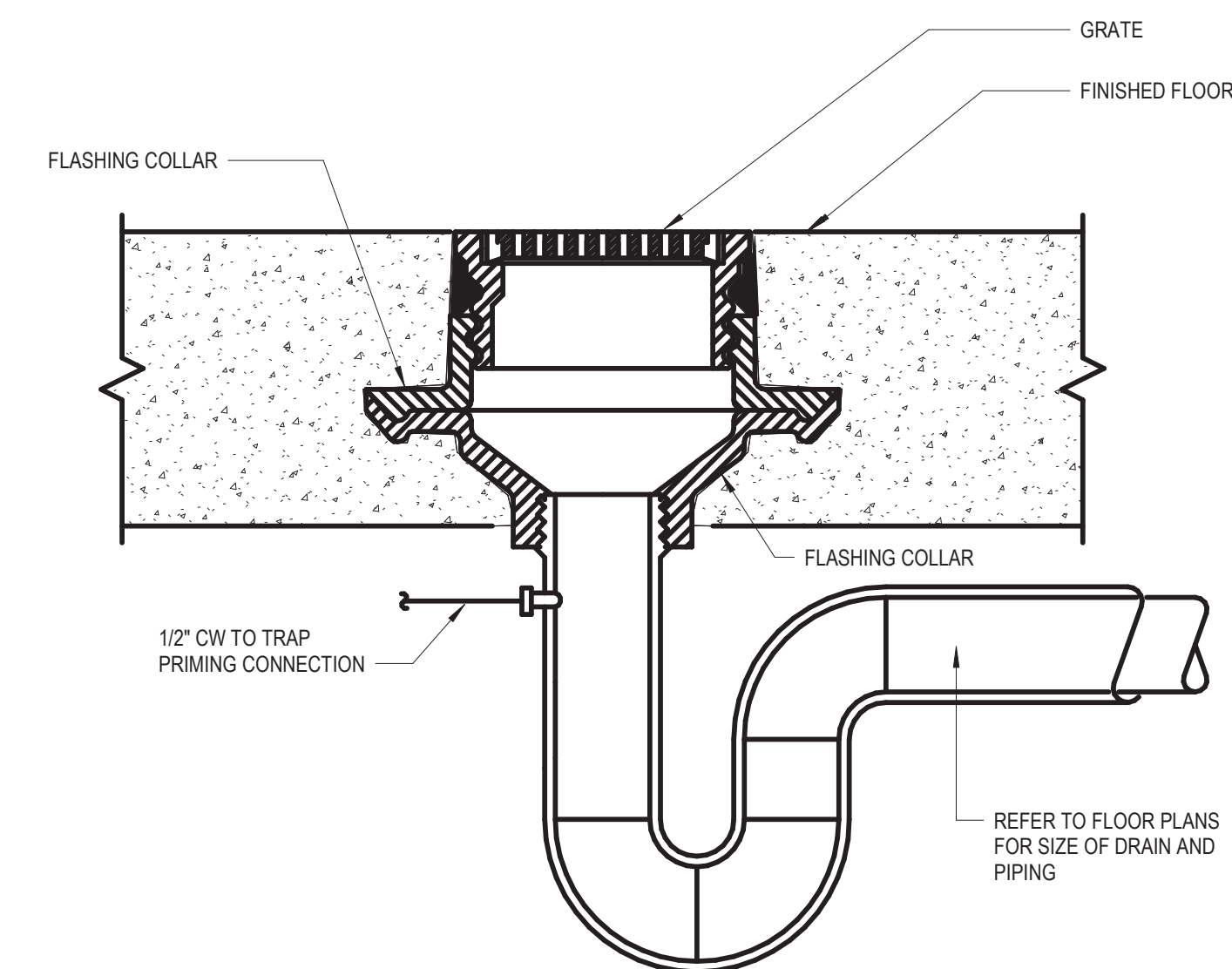
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SCALE: N.T.S.



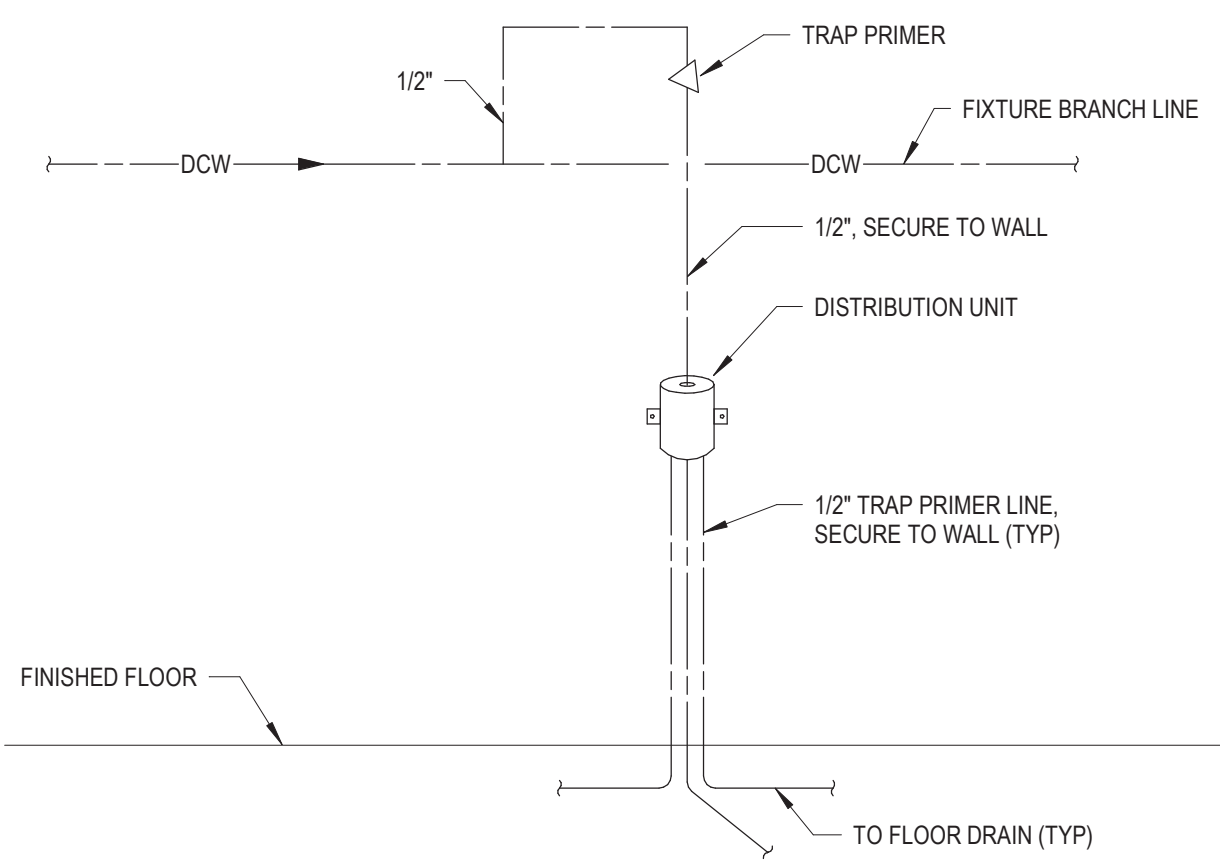
1 SUMP PUMP DETAIL  
SCALE: N.T.S.



5 ELECTRIC WATER HEATER DETAIL  
SCALE: N.T.S.

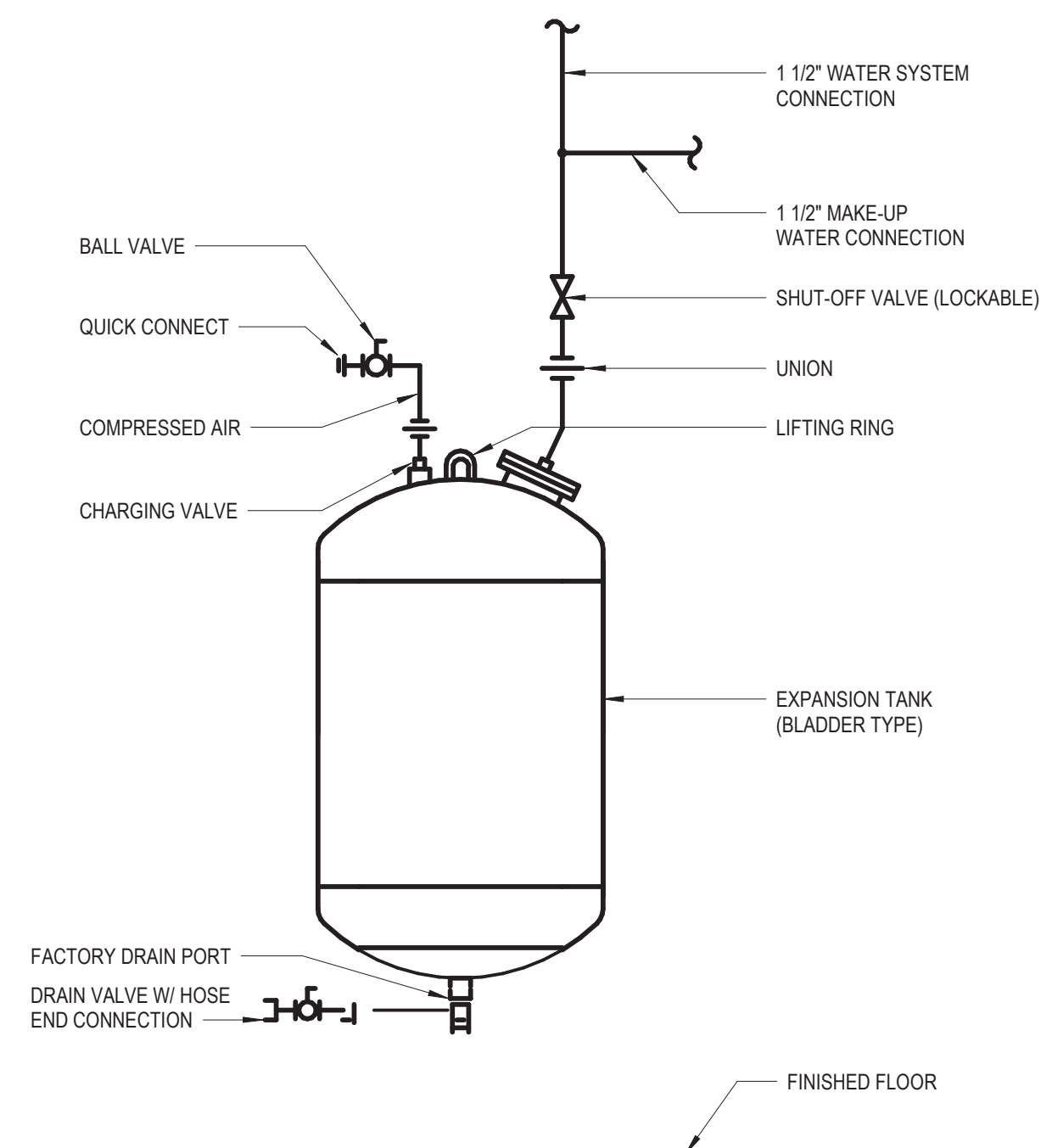


2 FLOOR DRAIN (TRAP PRIMER)  
SCALE: N.T.S.

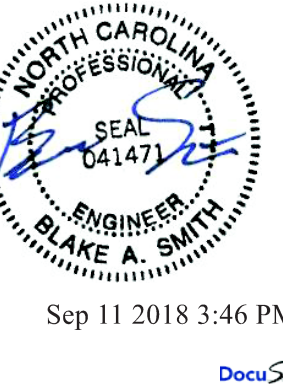


NOTE:  
1. MOUNT DISTRIBUTION UNIT A MINIMUM OF 12" ABOVE THE FINISHED FLOOR FOR EVERY 20' LENGTH OF HORIZONTAL RUN.

6 TRAP PRIMER INSTALLATION DETAIL  
SCALE: N.T.S.



3 EXPANSION TANK DETAIL  
SCALE: N.T.S.



ISSUE FOR  
PERMIT SET

ISSUE DATE  
09.11.2018

REVISIONS

NO.	REASON	DATE

PROJECT TEAM

PRINCIPAL IN CHARGE  
ALAN CAVE, P.E.

PROJECT MANAGER  
BLAKE SMITH, P.E.

DESIGN TEAM  
RMF

PROJECT NAME  
CAMPBELL UNIVERSITY  
DAY HALL RENOVATIONS

PROJECT NO.  
513.9660.00

SHEET TITLE  
PLUMBING DETAILS

SHEET NUMBER  
P501

PLUMBING FIXTURE SCHEDULE											
DESIGNATION	FIXTURE	ROUGH-IN CONNECTION				FIXTURE UNITS			FIXTURES	VALVE/FAUCET	REMARKS
		CW	HW	SAN	VENT	CW	HW	SAN			
P-1	WATER CLOSET	1 1/2"	-	4"	2"	6	0	4	ADA AMERICAN STANDARD MADERA FLOWISE	AMERICAN STANDARD ELECTRONIC FLUSH	1
P-2	URINAL	3/4"	-	2"	1 1/2"	5	0	2	AMERICAN STANDARD WASHBROOK FLOWISE	AMERICAN STANDARD ELECTRONIC FLUSH	1
P-3	RESTROOM LAVATORY	1/2"	1/2"	2"	1 1/2"	1.5	1.5	1	ZURN Z5810	DELTA ELECTRONIC 591T	1, 2, 5
P-4	BREAKROOM LAVATORY	1/2"	1/2"	2"	1 1/2"	1.5	1.5	2	ELKAY ECTSRS3229BG	ELKAY LKD232SBH5C	3, 4
P-5	MOP SINK	3/4"	3/4"	3"	2"	2.25	2.25	2	FIAT TERRAZZO TSBC1610	DELTA 2819	-
P-6	WALL HYDRANT	3/4"	-	-	-	2.5	-	-	ZURN 1300	-	-
P-7	REFRIGERATOR WALL BOX	1/2"	-	-	-	0.25	-	-	GUY GRAY MIB1AB	-	6

**NOTES:**

- BATTERY POWERED FAUCET.
- PROVIDE INSULATION ON WASTE PIPING TO MEET ADA REQUIREMENTS.
- PROVIDE WITH FOOD WASTE DISPOSER INSINKERATOR EVOLUTION EXCEL OR APPROVED EQUAL. INSTALL FOOD WASTE DISPOSER UNDERNEATH LEFT COMPARTMENT OF SINK.
- PROVIDE WITH STRAINER BASKET ELKAY 3-1/2" DRAIN BASKET OR APPROVED EQUAL.
- PROVIDE WITH SERVICE STOP ZURN Z81016-XL-LR-8860-12-PC OR APPROVED EQUAL.
- PROVIDE WITH INTEGRAL VACUUM BREAKER.

SUMP PUMP SCHEDULE									
DESIGNATION	SERVICE	GPM	DISCHARGE HEAD (FT)	BASIN SIZE	MOTOR HP	MOTOR RPM	ELECTRICAL	BASIS OF DESIGN	REMARKS
SP-1	ELEVATOR	50	30	BY OTHERS	1/2	3600	120/1/60	STANCOR SE-50	1, 2
SP-2	MECHANICAL ROOM	50	30	BY OTHERS	1/2	3600	120/1/60	STANCOR SE-50	1, 2

**NOTES:**

- PROVIDE OIL MINDER CONTROLS.
- PROVIDE ALARM CONTACT TO BE CONNECTED TO BY BAS AND MONITOR ON/OFF STATUS AND ALARM.

FLOOR DRAIN SCHEDULE			
DESIGNATION	SIZE	BASIS OF DESIGN	REMARKS
FD-1	4"	ZURN Z415N	-
-	-	-	-
-	-	-	-

ELECTRIC WATER HEATER SCHEDULE										
DESIGNATION	TYPE	DIMENSIONS (INxINxIN)	STORAGE (GAL)	RECOVERY (GPH)	TEMP IN (°F)	TEMP OUT (°F)	POWER REQUIREMENT (KW)	ELECTRICAL	BASIS OF DESIGN	REMARKS
WH-1	ELECTRIC	61x53x24	66	15	50	120	3	208/3/60	AO SMITH LTE	1

**NOTES:**

- WARRANTY: STORAGE TANK: 3 YEARS  
CONTROLS: 2 YEARS

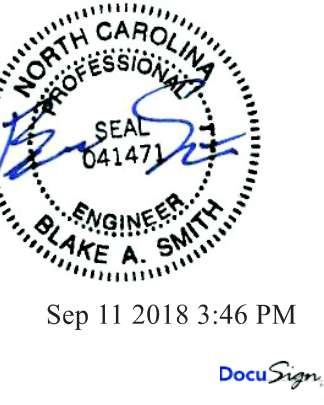
SHOCK ARRESTOR SCHEDULE	
DESIGNATION	FIXTURE UNITS SERVED
SA - "A"	1-11
SA - "B"	12-32
SA - "C"	33-68
SA - "D"	61-113

RECIRCULATING HOT WATER PUMP SCHEDULE									
DESIGNATION	SERVICE	CAPACITY (GPM)	HEAD (FT)	MOTOR HP	MOTOR RPM	ELECTRICAL	BASIS OF DESIGN	REMARKS	
RP-1	DOMESTIC HOT WATER	1	5'	1/40	-	120/1/60	TACO 006	1, 2	

**NOTES:**

- PROVIDE PUMP SUITABLE FOR POTABLE WATER WITH NO LEAD COMPONENTS.
- PROVIDE WITH INTEGRAL AQUA STAT.

EXPANSION TANK SCHEDULE							
DESIGNATION	SERVICE	TANK VOLUME (GAL)	ACCEPTANCE VOLUME (GAL)	OPERATING TEMPERATURE (°F)	APPROXIMATE TANK SIZE (DIA x HGT) (IN)	BASIS OF DESIGN	REMARKS
ET-1	DOMESTIC WATER	4.8	3.6	120	11x15	PROFLO PFXT121	



ISSUE FOR PERMIT SET

ISSUE DATE: 09.11.2018

REVISIONS: 1 Revisions by Owner 09.11.18

PROJECT TEAM:  
PRINCIPAL IN CHARGE: ALAN CAVE, P.E.  
PROJECT MANAGER: BLAKE SMITH, P.E.  
DESIGN TEAM: RMF  
PROJECT NAME: CAMPBELL UNIVERSITY DAY HALL RENOVATIONS

PROJECT NO.: 513.9660.00  
SHEET TITLE: PLUMBING SCHEDULES

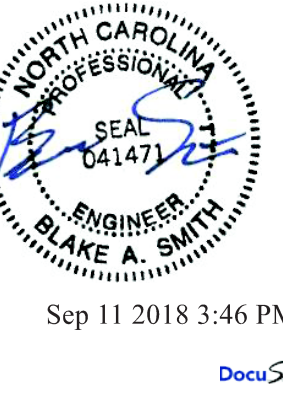
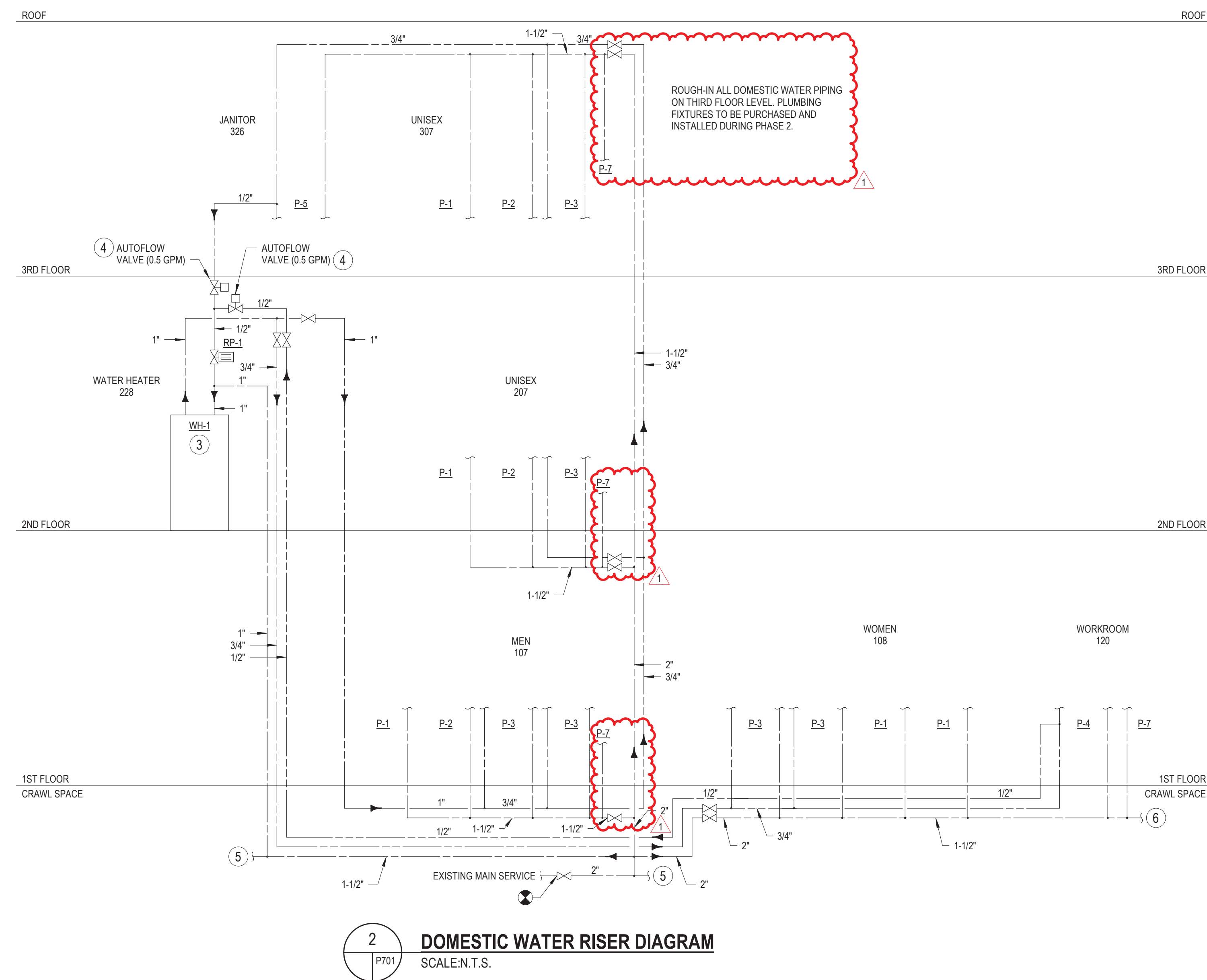
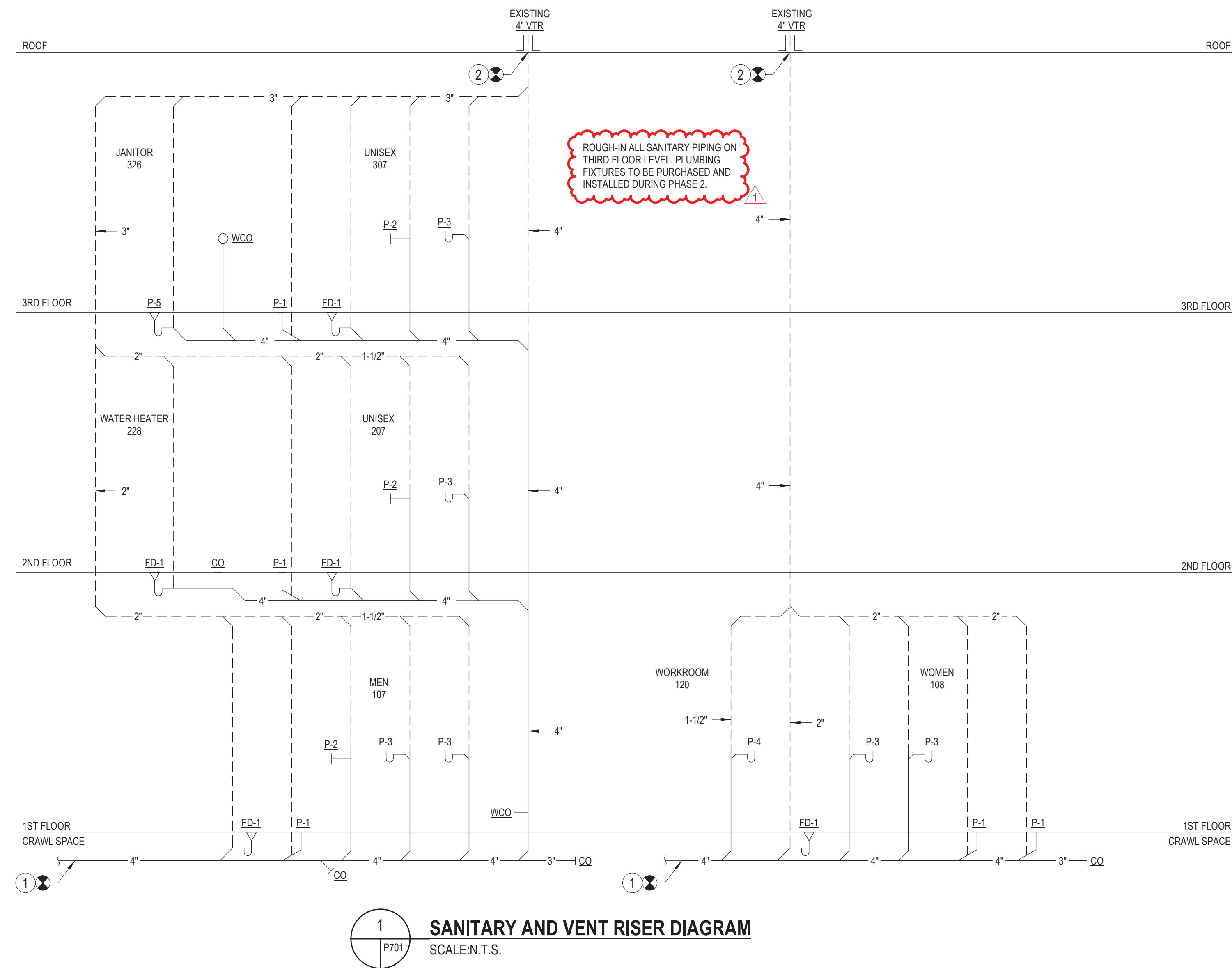
SHEET NUMBER: P601

**GENERAL NOTES**

1. SEE PLUMBING SCHEDULES FOR ROUGH-IN AND BRANCH SIZES TO FIXTURES.

**SHEET NOTES**

- ① CONNECT NEW SANITARY TO EXISTING 4" SANITARY PIPING WITHIN CRAWL SPACE.
- ② CONNECT NEW SANITARY VENT TO EXISTING 4" VTR.
- ③ SEE DETAILS FOR PIPING ACCESSORIES ASSOCIATED WITH ELECTRIC WATER HEATER AND DOMESTIC HOT WATER RECIRCULATION PUMP.
- ④ PROVIDE AUTOFLOW VALVE ON EACH DOMESTIC HOT WATER RECIRC PIPING BRANCH. BALANCE FOR 0.5 GPM EACH.
- ⑤ DOMESTIC COLD WATER PIPING TO EXISTING EXTERIOR WALL HYDRANT.
- ⑥ DOMESTIC COLD WATER PIPING TO NEW EXTERIOR WALL HYDRANT.



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**ISSUE FOR PERMIT SET**

ISSUE DATE  
09.11.2018

REVISIONS

NO.	REASON	DATE
1	Revisions by Owner	09.11.18

**PROJECT TEAM**

PRINCIPAL IN CHARGE  
**ALAN CAVE, P.E.**  
PROJECT MANAGER  
**BLAKE SMITH, P.E.**

DESIGN TEAM  
**RMI**  
PROJECT NAME  
**CAMPBELL UNIVERSITY DAY HALL RENOVATIONS**

PROJECT NO.  
**513.9660.00**

SHEET TITLE  
**PLUMBING RISER DIAGRAMS**

SHEET NUMBER  
**P701**