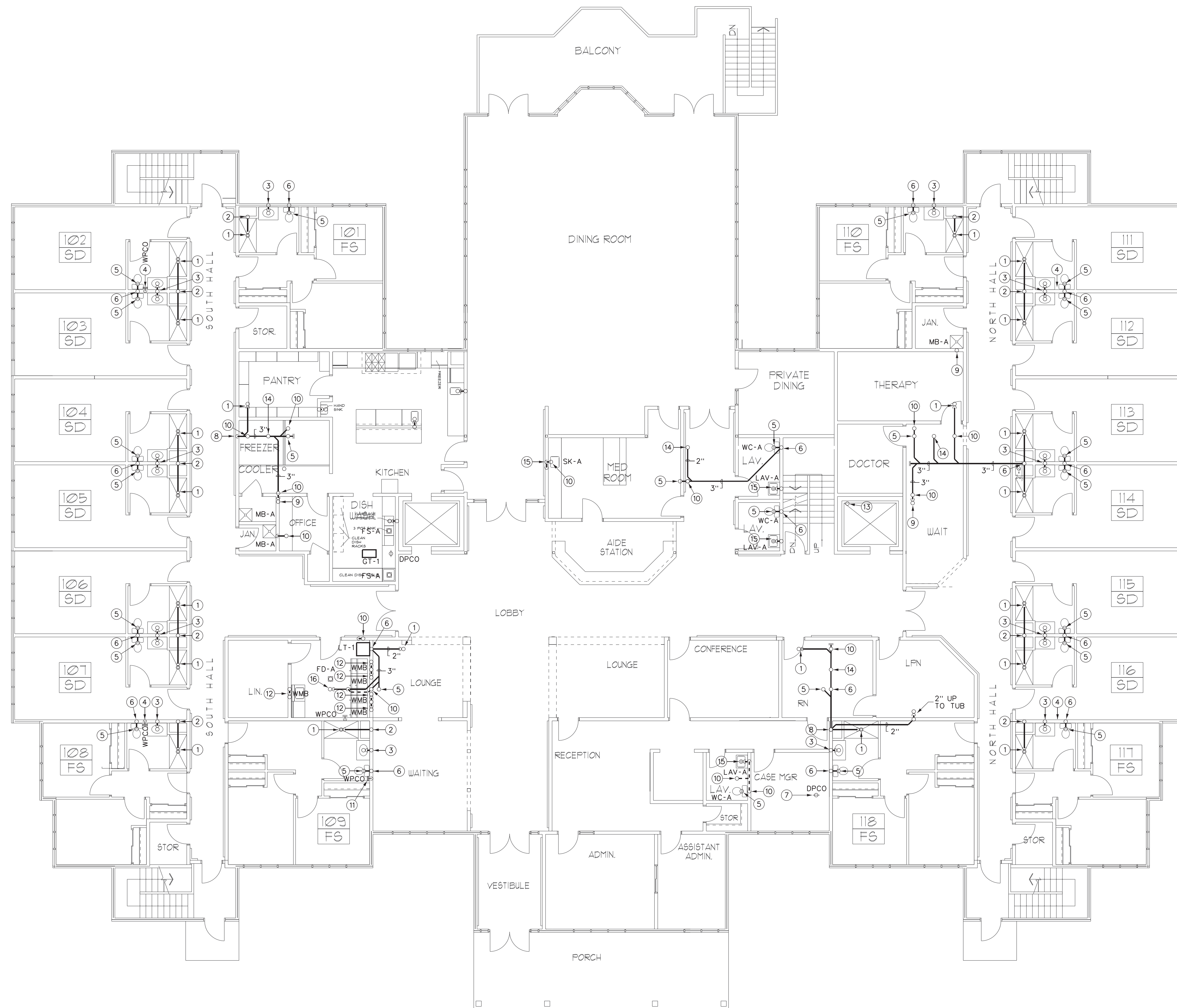




- 1" P-TRAP UP TO SHOWER.
- 2" WET VENT UP.
- 3" WASTE UP TO VANITY SINK.
- 4" ELBOW UP TO WALL CLEANOUT.
- 3" SANITARY UP TO TOILET.
- 3" WET VENT UP.
- 4" UP TO DECK PLATE CLEANOUT.
- 4" 45° ELBOWS, DROP DOWN BELOW BASEMENT FLOOR.
- 3" SANITARY UP TO 2ND FLOOR.
- 3" P-TRAP UP TO MOP SINK.
- 2" VENT UP.
- 3" P-TRAP UP TO FLOOR DRAIN.
- 3" ELBOW UP, TRANSITION TO 2" ABOVE SLAB.
- 3" ELBOW UP TO WALL CLEANOUT.
- 4" INLET AND OUTLET AT LINT TRAP, PROVIDE EXTENSION AS NECESSARY TO MAKE LID FLUSH WITH FINISH FLOOR SURFACE. SEE X/PX FOR DETAIL.
- 4" STANDPIPE FOR ELEVATOR SUMP PUMP DISCHARGE, SEE X/PX.
- 2" WASTE UP TO SINK.
- 4" P-TRAP UP TO FLOOR DRAIN, 2" VENT UP.
- 6" UP TO YARD CLEANOUT, SEE X/PX FOR DETAIL.
- 6" SANITARY OUT 5' FROM FOUNDATION, CONTINUED BY SITE CONTRACTOR. SEE SITE PLANS FOR CONTINUATION.
- 4" P-TRAP UP TO HUB DRAIN FOR DISHWASHER.
- 4" P-TRAP UP TO HUB DRAIN FOR 3 BAY SINK.
- GREASE TRAP RECESSED IN FLOOR. PROVIDE LID EXTENSION AS NECESSARY.
- 2" WASTE UP TO GARBAGE DISPOSAL.



GENERAL NOTES:

- ALL PIPING IS ABOVE THE CEILING UNLESS OTHERWISE INDICATED.
- EXISTING PIPING SHOWN HAS BEEN TAKEN FROM AVAILABLE REFERENCE DRAWINGS AND LIMITED SITE VISITS. CONTRACTOR IS ADVISED TO VISIT SITE BEFORE BIDDING, STARTING WORK, OR ORDERING MATERIALS.
- ALL PIPING SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE INDICATED.
- COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO BEGINNING WORK.
- ALL SANITARY PIPING SHALL SLOPE AT MINIMUM 1%.
- ALL STORM PIPING SHALL SLOPE AT MINIMUM 2% UNLESS OTHERWISE NOTED.
- PROVIDE LINK SEAL SEALING SLEEVES AT ALL LOCATIONS WHERE PIPING PENETRATES EXTERIOR WALLS AND FLOOR SLABS ON GRADE.

DRAWING NOTES:

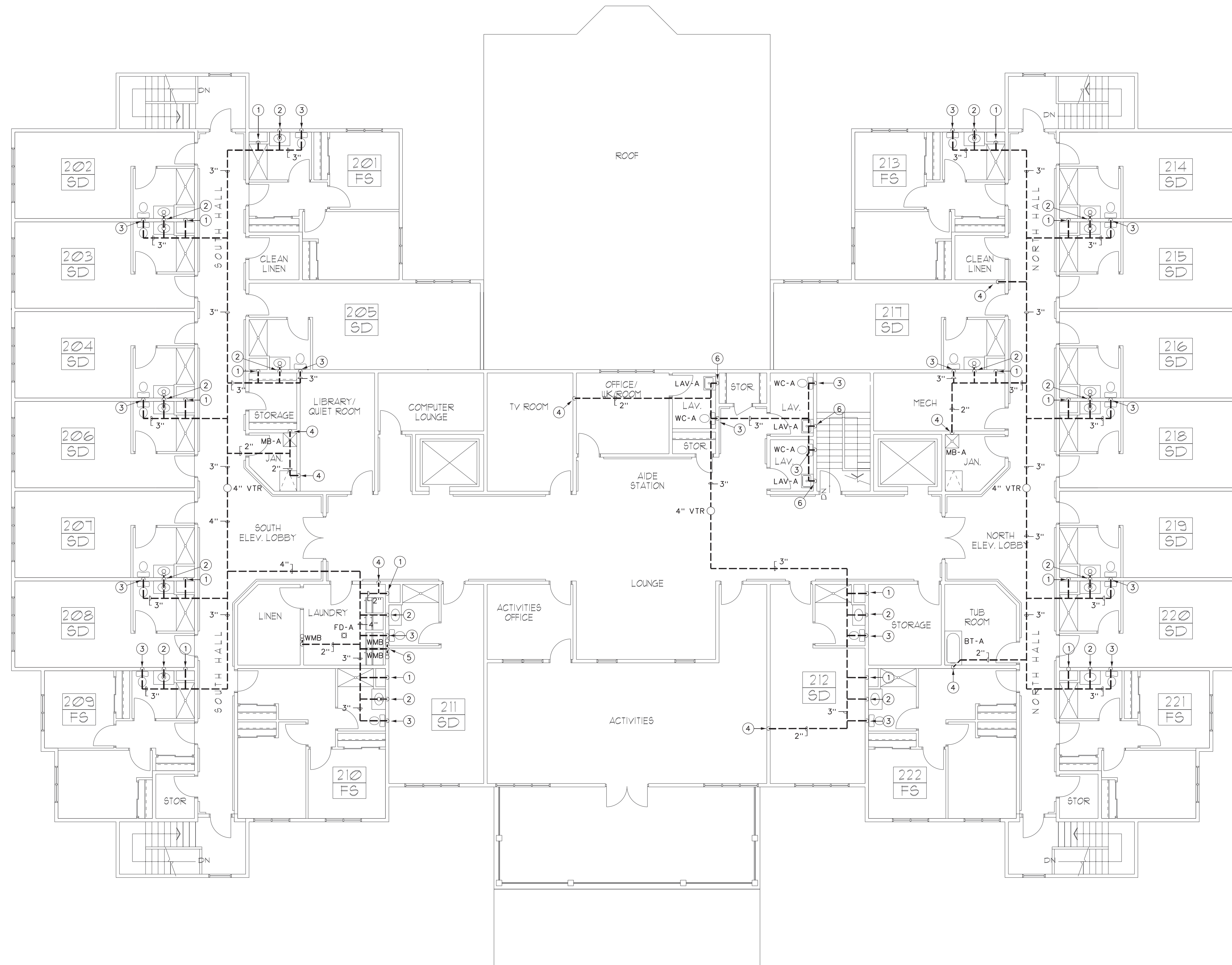
- 2" P-TRAP UP TO SHOWER.
- 2" WET VENT UP.
- 2" WASTE DOWN, 2" WET VENT UP, 1-1/2" CONN. TO VANITY SINK.
- 4" WALL CLEANOUT, OFFSET IN WALL TO AVOID VANITY.
- 3" SANITARY UP TO TOILET.
- 3" WET VENT UP.
- 4" DECK PLATE CLEANOUT.
- 3" SANITARY UP TO 2ND FLOOR.
- 3" P-TRAP UP TO MOP SINK.
- 2" VENT UP.
- 3" WALL CLEANOUT.
- 2" P-TRAP TO WASHING MACHINE BOX, 2" WASTE DOWN, 2" WET VENT UP. SEE X/PX FOR DETAIL.
- 4" STANDPIPE FOR ELEVATOR SUMP PUMP DISCHARGE, SEE X/PX.
- 2" WASTE UP TO SINK.
- 2" WASTE DOWN, 2" VENT UP, 1-1/2" TO SINK.
- 3" P-TRAP UP TO FLOOR DRAIN ON 2ND FL.

FIRST FLOOR SANITARY PLAN

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1 SECOND FLOOR PLAN
P103 SCALE: 1/8"=1'-0" NORTH

- GENERAL NOTES:**
- A. ALL PIPING IS ABOVE THE CEILING UNLESS OTHERWISE INDICATED.
 - B. EXISTING PIPING SHOWN HAS BEEN TAKEN FROM AVAILABLE REFERENCE DRAWINGS AND LIMITED SITE VISITS. CONTRACTOR IS ADVISED TO VISIT SITE BEFORE BIDDING, STARTING WORK, OR ORDERING MATERIALS.
 - C. ALL PIPING SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE INDICATED.
 - D. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO BEGINNING WORK.
 - E. ALL SANITARY PIPING SHALL SLOPE AT MINIMUM 1%.
 - F. ALL STORM PIPING SHALL SLOPE AT MINIMUM 2% UNLESS OTHERWISE NOTED.
 - G. PROVIDE LINK SEAL SEALING SLEEVES AT ALL LOCATIONS WHERE PIPING PENETRATES EXTERIOR WALLS AND FLOOR SLABS ON GRADE.

- DRAWING NOTES:**
- ① 2" WET VENT UP AND DOWN FROM SHOWERS.
 - ② 2" WASTE DOWN, 2" VENT UP, 1-1/2" CONN. TO VANITY SINK(S).
 - ③ 3" VENT UP FROM TOILET STACK.
 - ④ 2" VENT UP.
 - ⑤ 2" P-TRAP TO WASHING MACHINE BOX, 2" WASTE DOWN, 2" VENT UP. SEE X/PX FOR DETAIL.
 - ⑥ 2" WASTE DOWN, 2" VENT UP, 1-1/2" TO SINK.



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DATE: 8/11/2020
REVISIONS:

PROJECT NO.	DESIGNED BY	DRAWN BY	CHECKED BY	SCALE	NOTES
200905	MUC	MUC	PSA	AS NOTED	

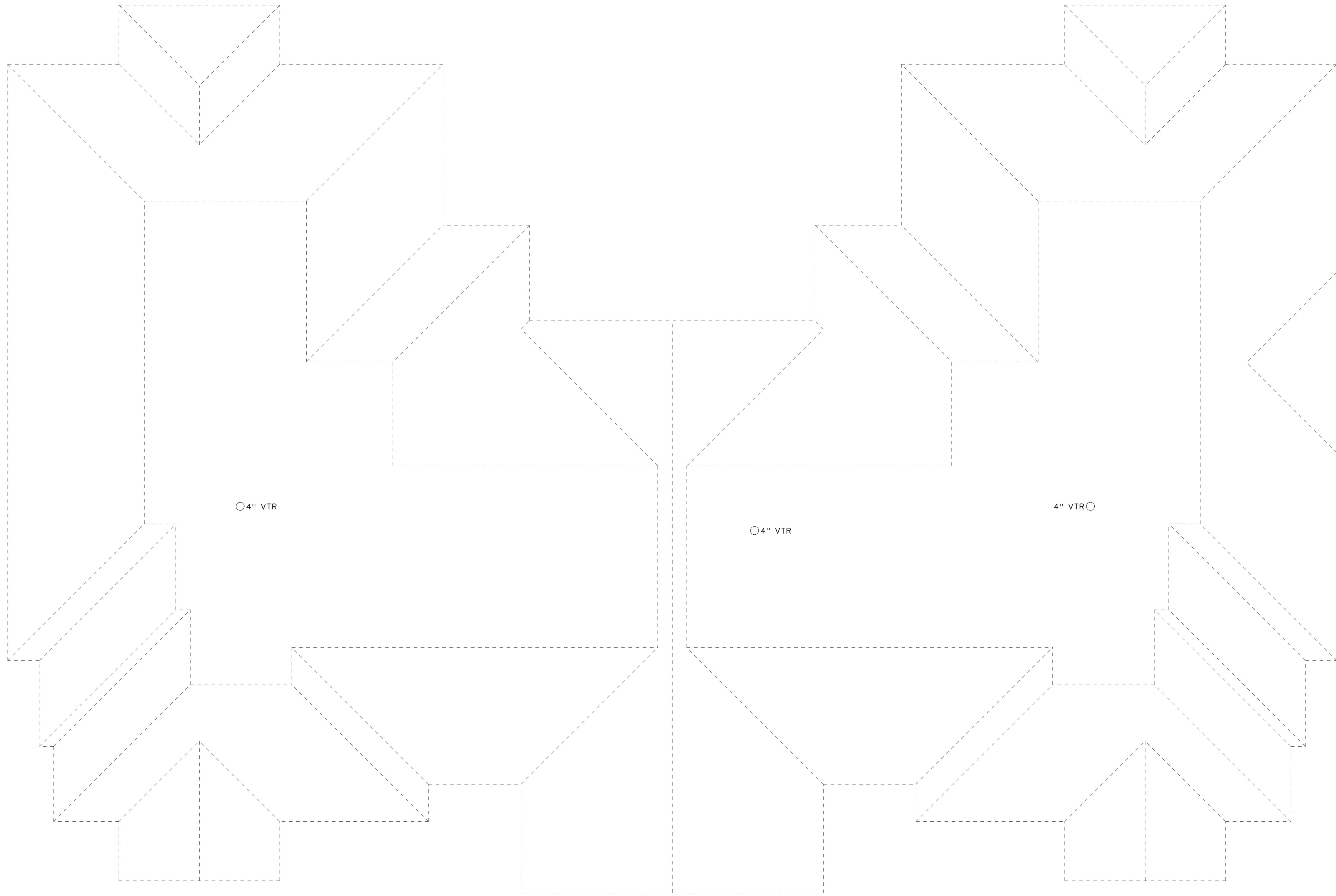
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SHEET NO.
P103



GENERAL NOTES:

- A. ALL PIPING IS ABOVE THE CEILING UNLESS OTHERWISE INDICATED.
- B. ALL PIPING SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE INDICATED.
- C. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO BEGINNING WORK.
- D. ALL SANITARY PIPING SHALL SLOPE AT MINIMUM 1%.
- E. ALL STORM PIPING SHALL SLOPE AT MINIMUM 2% UNLESS OTHERWISE NOTED.
- F. PROVIDE LINK SEAL SEALING SLEEVES AT ALL LOCATIONS WHERE PIPING PENETRATES EXTERIOR WALLS AND FLOOR SLABS ON GRADE.

DRAWING NOTES:

- 1 2" WET VENT
- 2



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DATE: 8/11/2020
REVISION:

PROJECT NO: 200095
DESIGNED BY: MJC
DRAWN BY: MJC
CHECKED BY: RSA
SCALE: AS NOTED
NOTES:

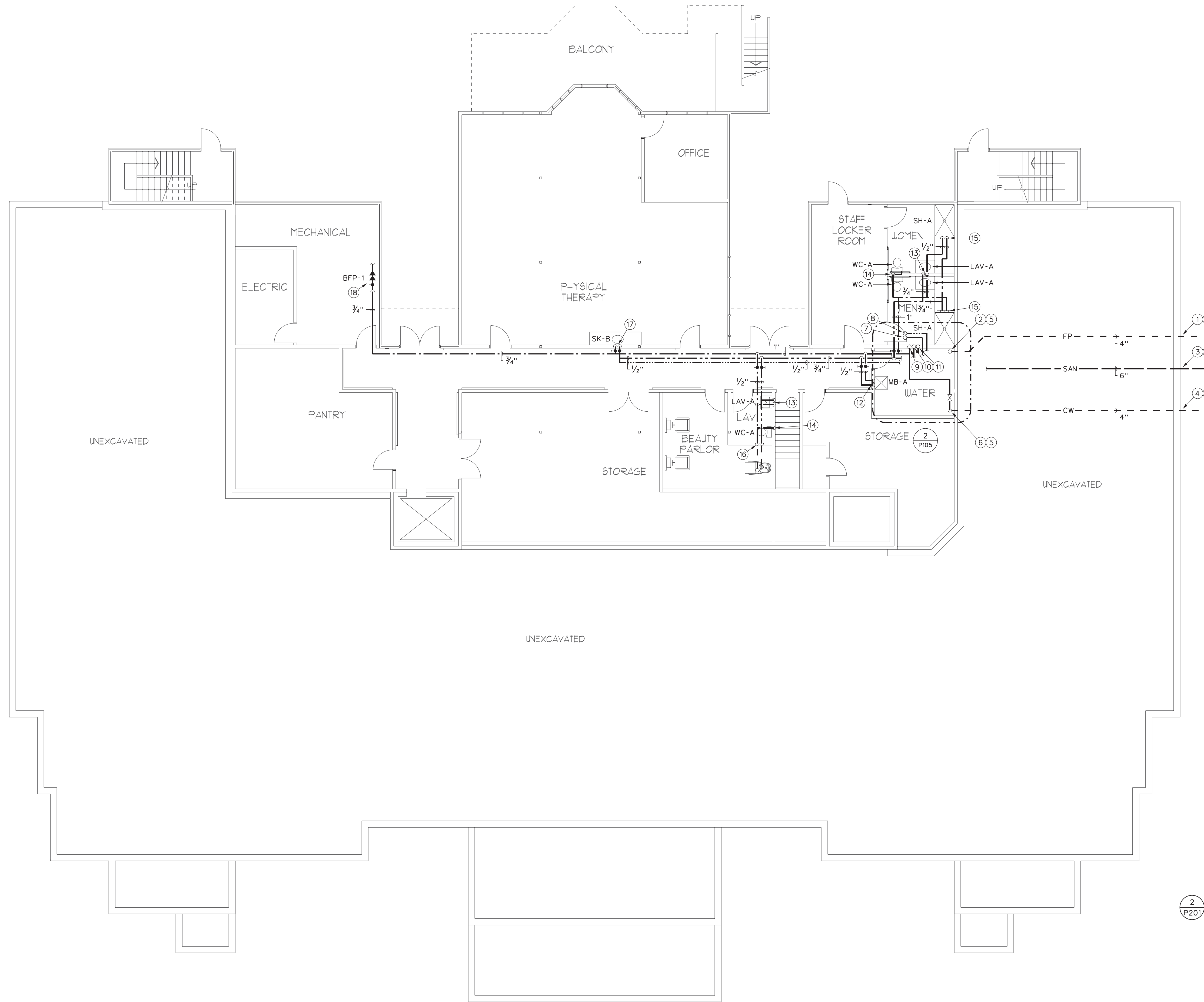
ROOF PLAN

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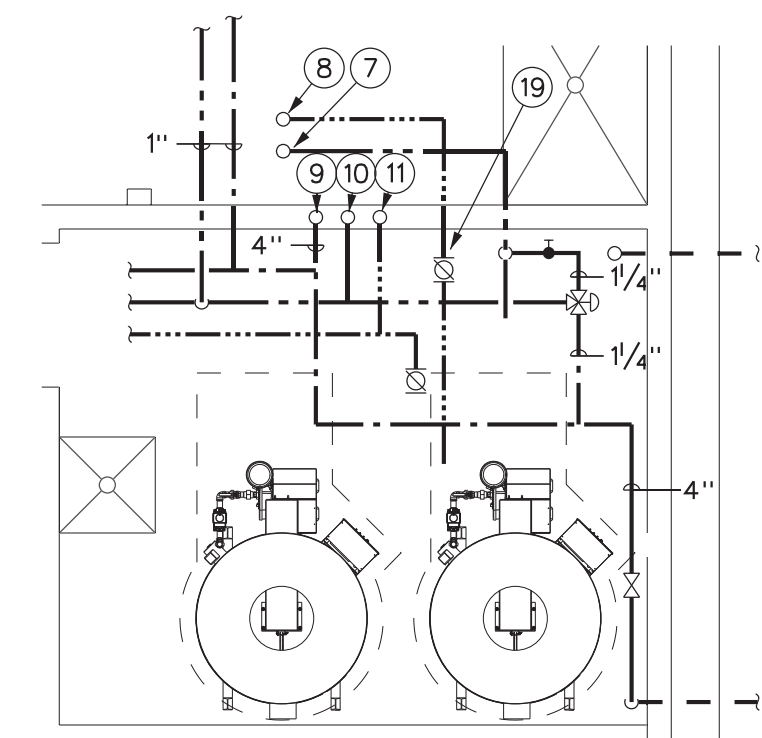

SHEET NO:
P104



1 BASEMENT FLOOR PLAN
SCALE: 1/8"=1'-0"

- GENERAL NOTES:**
- A. ALL PIPING IS ABOVE THE CEILING UNLESS OTHERWISE INDICATED.
 - B. ALL PIPING SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE INDICATED.
 - C. COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO BEGINNING WORK.
 - D. ALL SANITARY PIPING SHALL SLOPE AT MINIMUM 1%.
 - E. ALL STORM PIPING SHALL SLOPE AT MINIMUM 2% UNLESS OTHERWISE NOTED.
 - F. PROVIDE LINK SEAL SEALING SLEEVES AT ALL LOCATIONS WHERE PIPING PENETRATES EXTERIOR WALLS AND FLOOR SLABS ON GRADE.

- DRAWING NOTES:**
- 1 4" FIRE PROTECTION MAIN, MAINTAIN 5' LATERAL SEPERATION FROM SEWER.
 - 2 4" FIRE PROTECTION MAIN RISER UP, PROVIDE GATE VALVE IN RISER. CONTINUED BY FP CONTRACTOR.
 - 3 6" SANITARY MAIN, MAINTAIN 5' LATERAL SEPERATION FROM WATER.
 - 4 4" DOMESTIC WATER MAIN, MAINTAIN 5' LATERAL SEPERATION FROM SEWER.
 - 5 SEAL PENETRATION WATERTIGHT.
 - 6 4" WATER MAIN RISER UP, PROVIDE GATE VALVE.
 - 7 X" 140° HOT WATER UP.
 - 8 X" 140° HOT WATER RETURN UP.
 - 9 4" DOMESTIC COLD WATER UP.
 - 10 X" 125° HOT WATER UP.
 - 11 X" 125° HOT WATER RETURN UP.
 - 12 1/2" CW, 1/2" HW DROP DOWN TO MOP SINK.
 - 13 1/2" CW, 1/2" HW DROP DOWN TO LAVATORY.
 - 14 1/2" CW DROP DOWN TO TOILET.
 - 15 1/2" CW, 1/2" HW DROP DOWN TO SHOWER MIX VALVE.
 - 16 1/2" CW, 1/2" HW DROP DOWN BELOW SLAB TO HAIR SINK. INSULATE PIPING BELOW SLAB WITH 1" WALL CLOSED CELL INSULATION.
 - 17 1/2" CW, 1/2" HW DROP DOWN TO SINK.
 - 18 3/4" CW BOILER MAKEUP WATER WITH DOUBLE CHECK BACKFLOW PREVENTER.
 - 19 PP-1 140° HOT WATER RETURN PUMP.
 - 20 PP-2 120° HOT WATER RETURN PUMP.



2 ENLARGED WATER ROOM
SCALE: 1/4"=1'-0"



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DATE: 8/11/2020
REVISION:

PROJECT NO: 200095
DESIGNED BY: MUC
DRAWN BY: MUC
CHECKED BY: RSA
SCALE: AS NOTED
NOTES:

**BASEMENT DOMESTIC WATER
AND NATURAL GAS PLAN**

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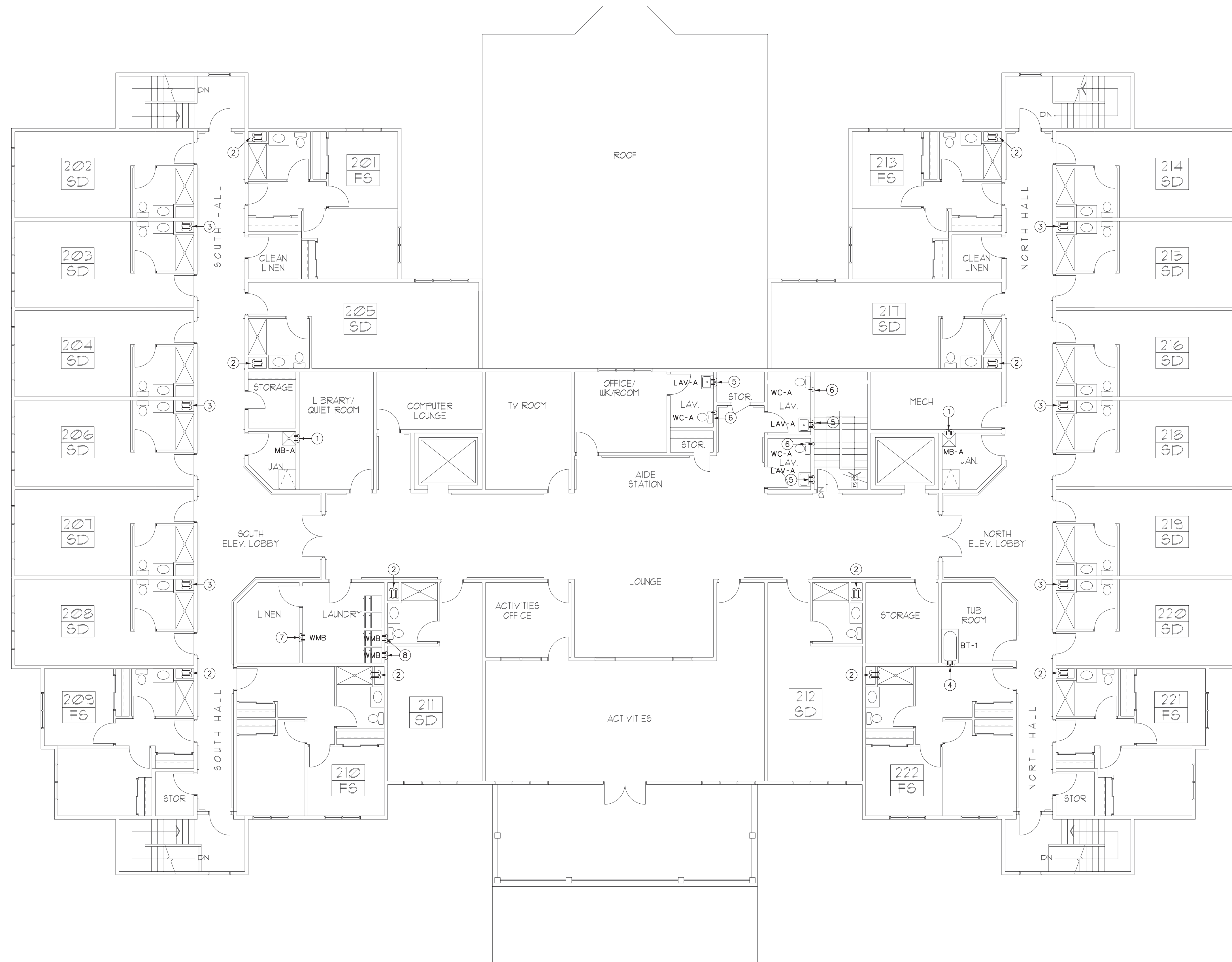
P201



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



P202



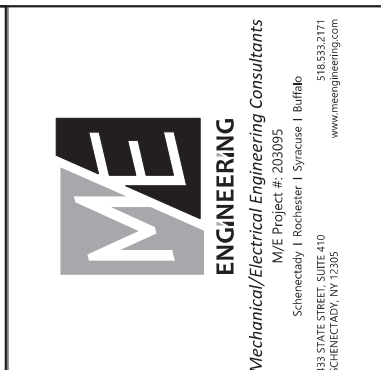
1
P203
SECOND FLOOR PLAN
SCALE: 1/8"=1'-0"
0 4' 8' 16'
NORTH

GENERAL NOTES:

- ALL PIPING IS ABOVE THE CEILING UNLESS OTHERWISE INDICATED.
- ALL PIPING SHALL BE INSTALLED CONCEALED UNLESS OTHERWISE INDICATED.
- COORDINATE ALL WORK WITH OTHER TRADES PRIOR TO BEGINNING WORK.
- ALL SANITARY PIPING SHALL SLOPE AT MINIMUM 1%.
- ALL STORM PIPING SHALL SLOPE AT MINIMUM 2% UNLESS OTHERWISE NOTED.
- PROVIDE LINK SEAL SEALING SLEEVES AT ALL LOCATIONS WHERE PIPING PENETRATES EXTERIOR WALLS AND FLOOR SLABS ON GRADE.

DRAWING NOTES:

- 1/2" CW AND 1/2" HW UP FROM BELOW TO MOP SINK.
- 3/4" CW AND 3/4" HW UP FROM BELOW INTO 2ND FL UNIT. SEE ENLARGED PLANS FOR CONTINUATION.
- 1" CW AND 1" HW UP FROM BELOW. PROVIDE 1" X 3/4" X 3/4" TEES INTO 2ND FL UNITS. SEE ENLARGED PLANS FOR CONTINUATION.
- 1/2" CW AND 1/2" HW UP FROM BELOW TO TUB.
- 1/2" CW AND 1/2" HW UP FROM BELOW TO SINK.
- 1/2" CW UP FROM BELOW TO TOILET.
- 3/4" CW AND 3/4" HW UP FROM BELOW TO WASHING MACHINE BOX.
- 1/2" CW AND 1/2" HW UP FROM BELOW TO WASHING MACHINE BOX.



DATE: 8/11/2020
REVISION:

PROJECT NO.	202095
DESIGNED BY:	MUC
DRAWN BY:	MUC
CHECKED BY:	PSA
SCALE:	AS NOTED
NOTES:	

SECOND FLOOR DOMESTIC WATER
AND NATURAL GAS PLAN

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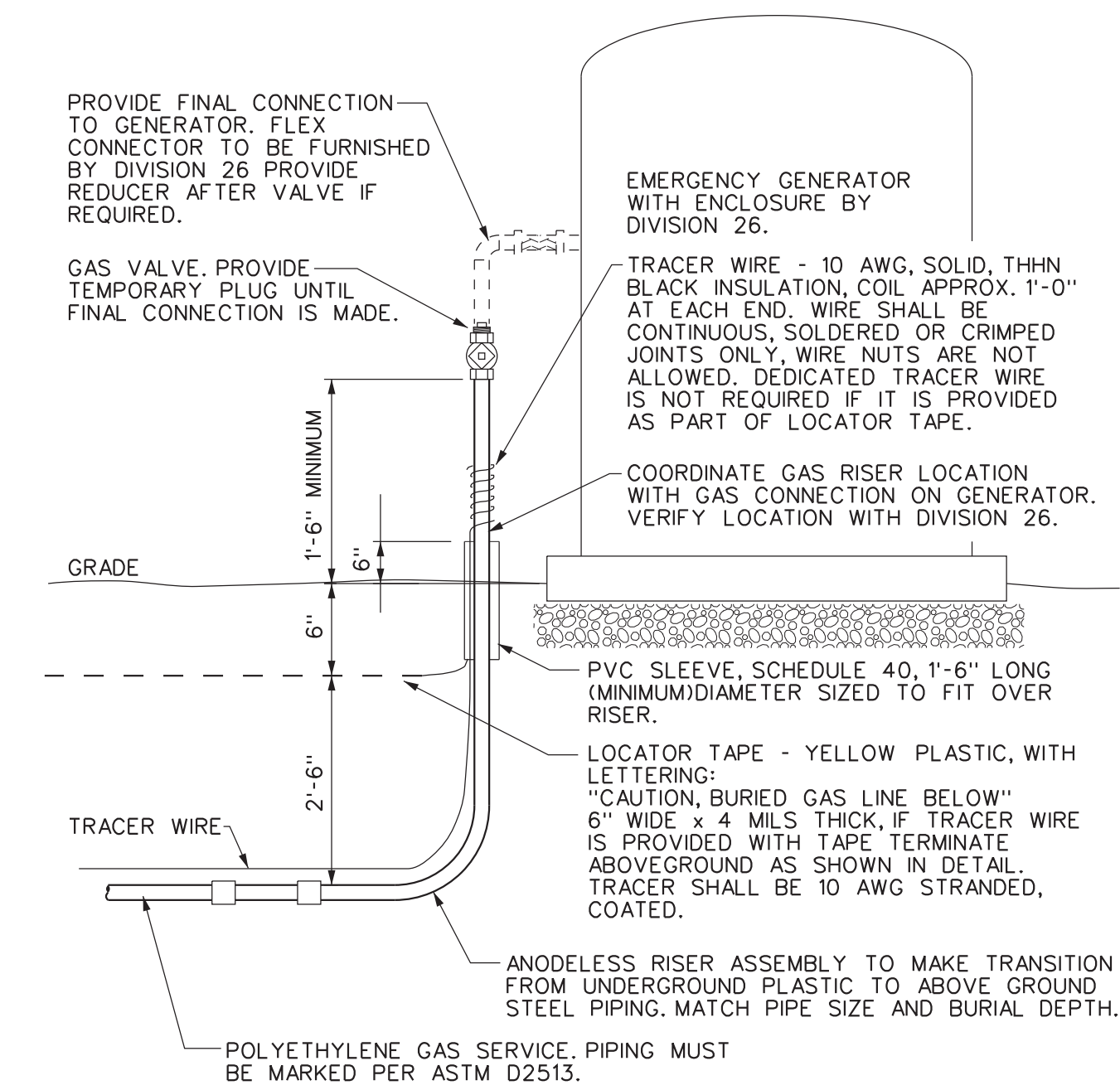
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P203



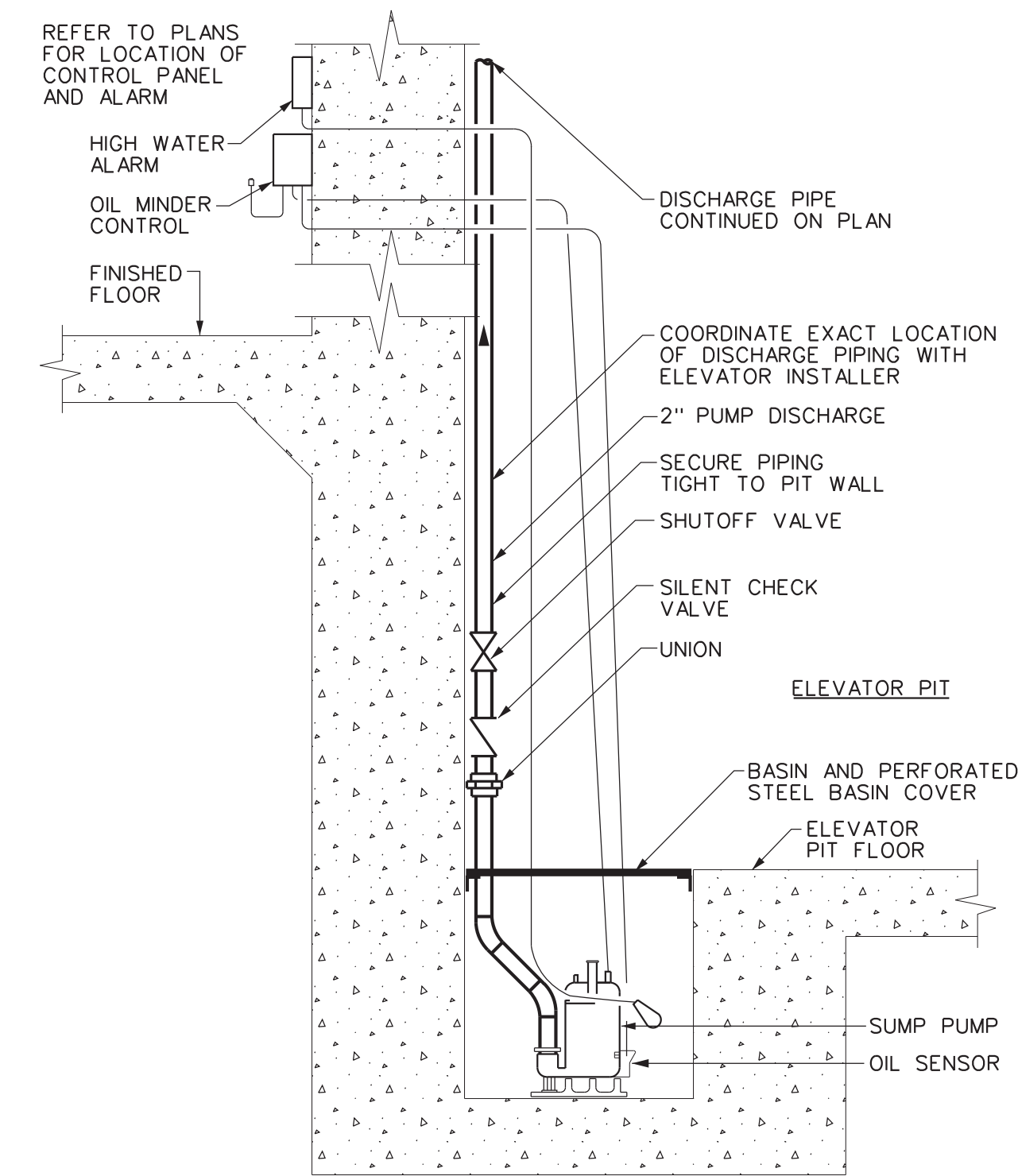
- ① 1-1/4" CW AND HW FROM 1ST FL CORRIDOR.
- ② 1/2" CW AND HW UP AND DOWN TO SHOWER.
- ③ 1/2" CW AND HW UP AND DOWN TO VANITY.
- ④ 1/2" CW UP AND DOWN TO TOILET.
- ⑤ 3/4" CW AND HW UP FROM 1ST FL.



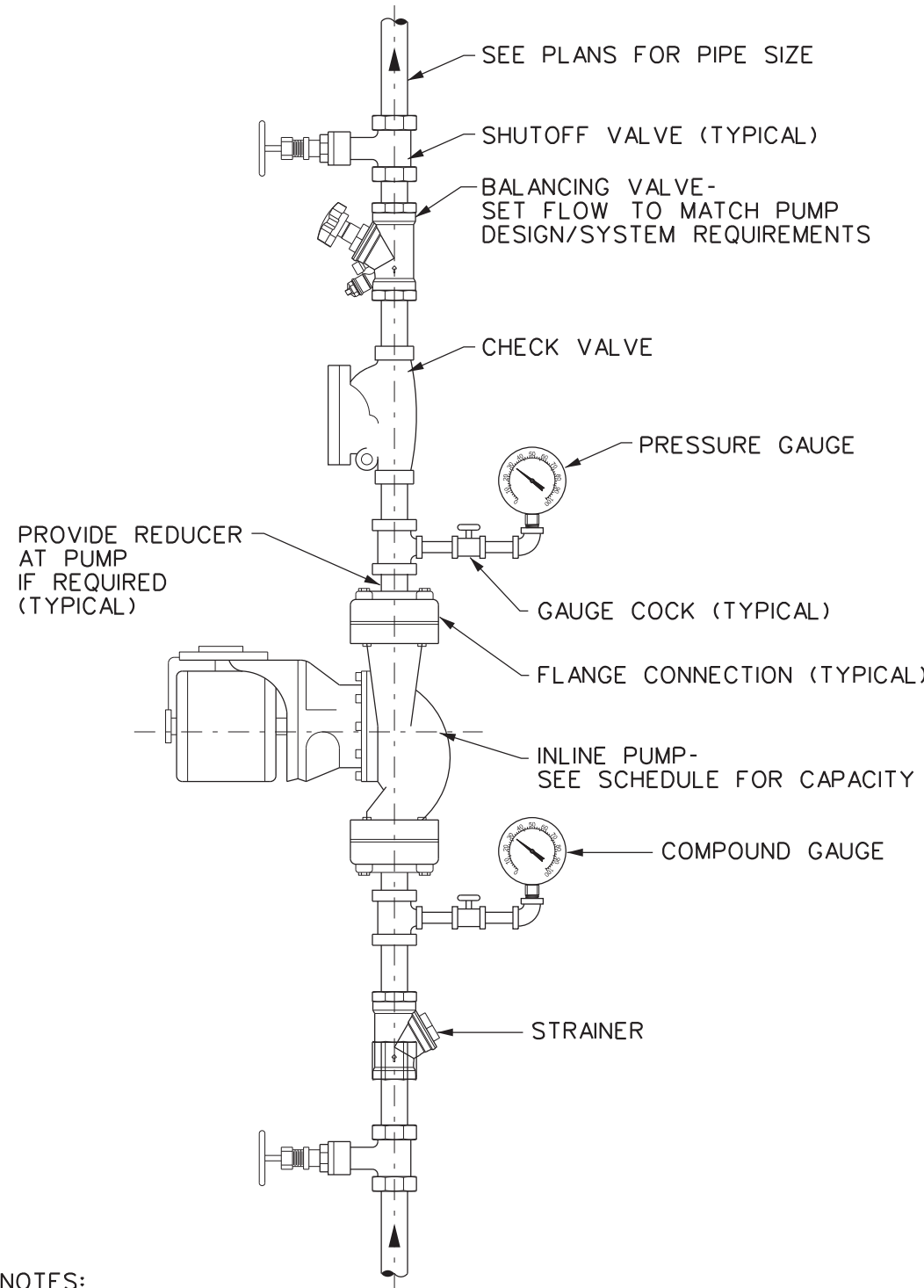
DETAIL NOTES:

- PROVIDE AN ANODELESS RISER AT EACH LOCATION WHERE THE GAS PIPING PENETRATES THE SURFACE. EXTEND TRACER TO THE SURFACE AT EACH RISER.
- COORDINATE PIPE AND CONDUIT ROUTING TO MINIMIZE TRENCHING.
- PAINT ALL EXTERIOR GAS PIPING WITH ONE(1) PRIMER AND TWO(2) FINISH COATS OF COLOR SELECTED, AS SPECIFIED.

4
P601
GENERATOR, EXTERIOR - NATURAL GAS PIPING DETAIL
SCALE: NONE



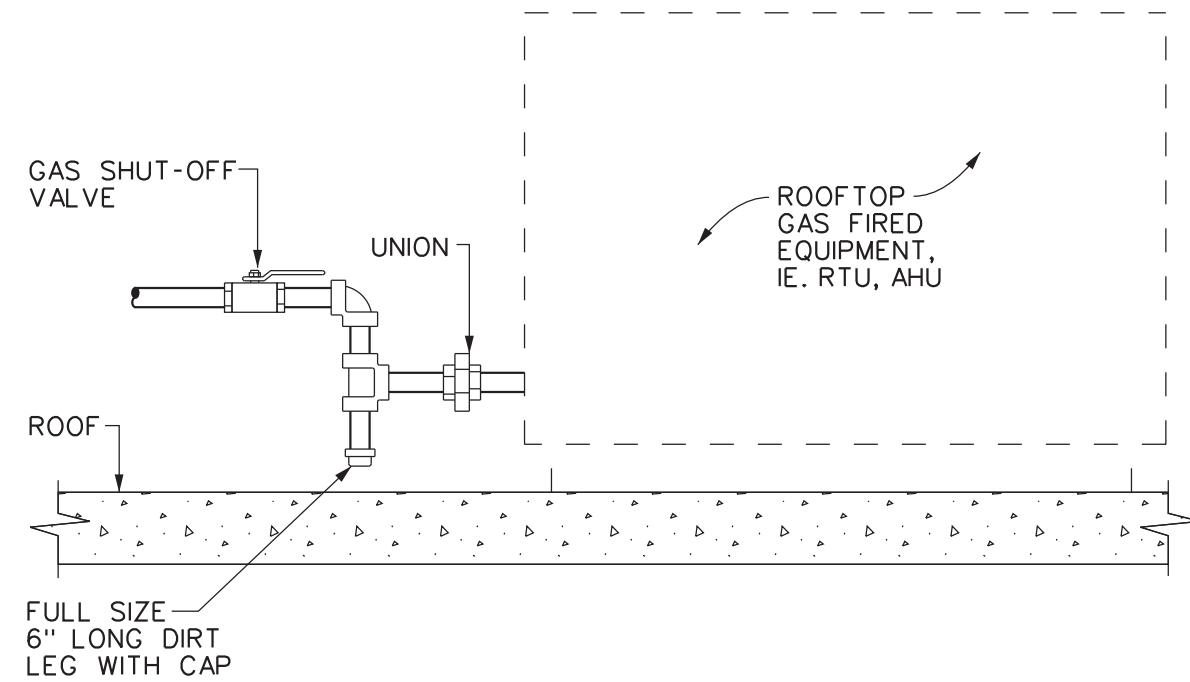
1
P601
ELEVATOR SUMP PUMP DETAIL
SCALE: NONE
BASIN IN SHAFT



DETAIL NOTES:

- PRESSURE GAUGES - SELECT GAUGE RANGE TO PLACE MAXIMUM SYSTEM OPERATING PRESSURE IN MIDDLE THIRD OF RANGE.
- PROVIDE UNION ON PUMP INLET AND OUTLET IF PUMP IS NOT FLANGED.
- INSTALL PUMP WITH SHAFT HORIZONTAL. PIPING MAY BE INSTALLED VERTICAL, AS SHOWN, OR HORIZONTAL DEPENDING ON SITE CONDITIONS.
- INSTALL CHECK VALVE HORIZONTALLY OR VERTICALLY WITH FLOW UPWARD.

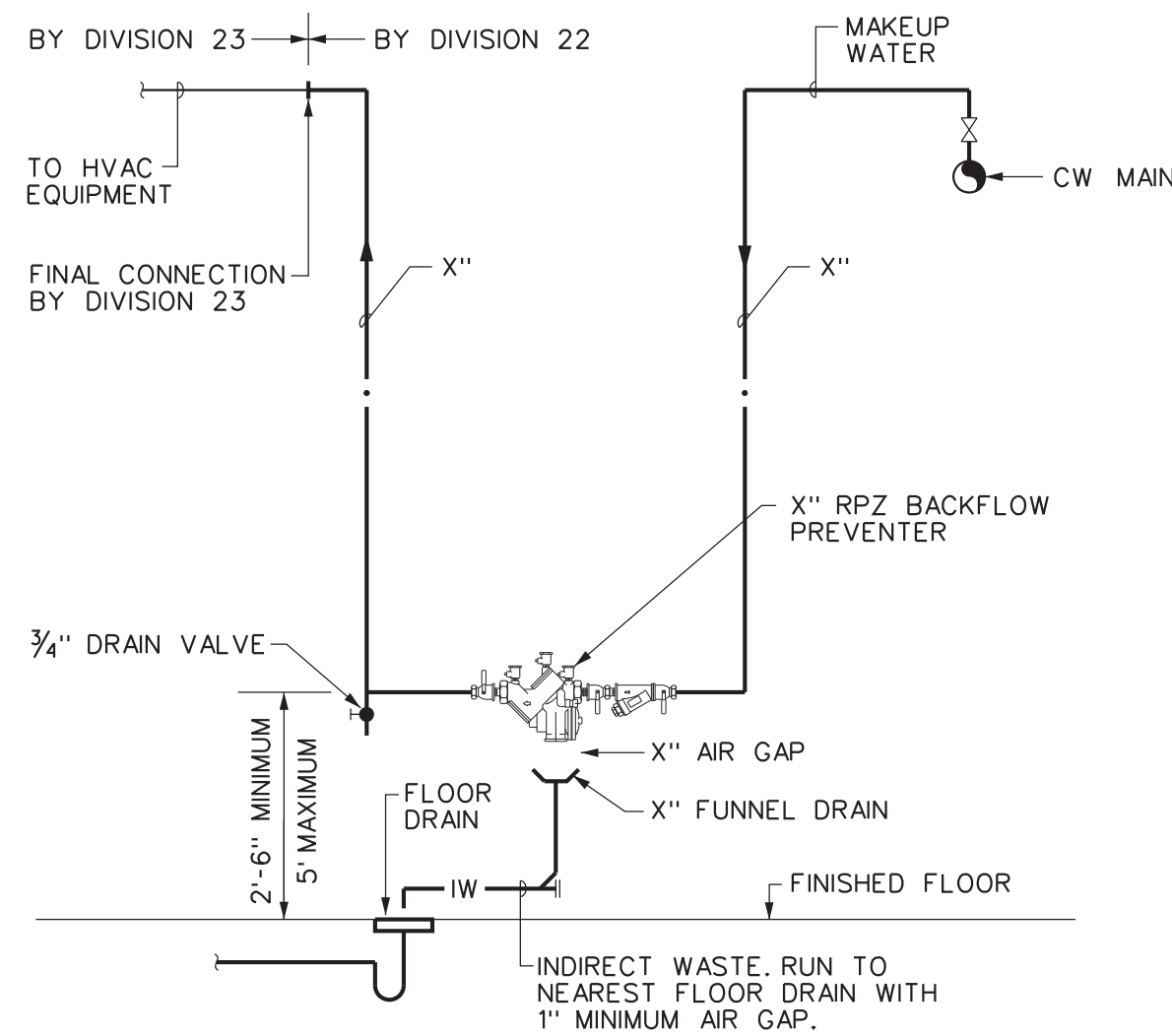
5
P601
INLINE PUMP DETAIL
SCALE: NONE



DETAIL NOTES:

- PROVIDE SHUT-OFF VALVE, DIRT LEG AND UNION AT EACH GAS CONNECTION ON EACH PIECE OF EQUIPMENT.
- VERIFY CONNECTION SIZES, QUANTITIES AND LOCATIONS WITH M.C.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR FINAL CONNECTION.
- REFER TO DRAWING, --- FOR GAS PIPING SUPPORT DETAIL.

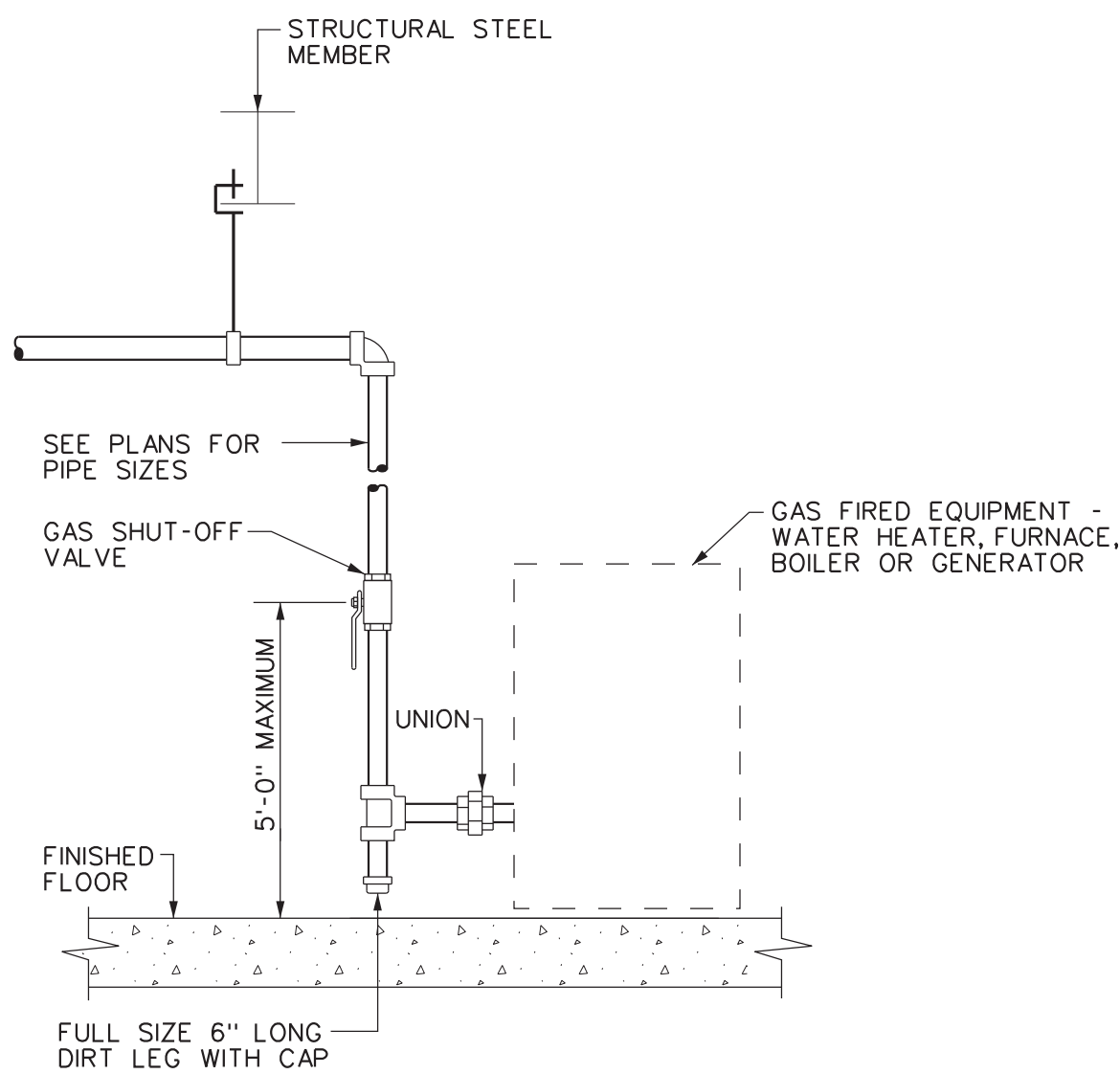
2
P601
GAS EQUIPMENT CONNECTION DETAIL - ROOFTOP
SCALE: NONE



DETAIL NOTES:

- BACKFLOW PREVENTER SHALL BE LOCATED UPSTREAM OF ALL CONNECTIONS TO HVAC EQUIPMENT.
- PROVIDE PROPER SUPPORTS FOR BACKFLOW PREVENTER AND PIPING.
- PROVIDE 8" CLEARANCE BEHIND BACKFLOW PREVENTER, 1'-0" ABOVE AND 2'-6" CLEARANCE IN FRONT OF DEVICE.
- THE INSTALLATION OF A FIXED AIR GAP FITTING IS NOT ACCEPTABLE FOR USE ON DRAIN LINE. PROVIDE FUNNEL DRAIN AS INDICATED.
- PAINT SUPPORTS WITH ONE(1) PRIMER AND TWO(2) FINISH COATS OF COLOR AS SPECIFIED.

6
P601
MAKE-UP WATER BACKFLOW PREVENTER DETAIL
SCALE: NONE



DETAIL NOTES:

- PROVIDE SHUT-OFF VALVE, DIRT LEG AND UNION AT EACH GAS CONNECTION ON EACH PIECE OF EQUIPMENT.
- VERIFY CONNECTION SIZES, QUANTITIES AND LOCATIONS WITH M.C.
- P.C. IS RESPONSIBLE FOR FINAL CONNECTION.

3
P601
GAS EQUIPMENT CONNECTION DETAIL
SCALE: NONE

DATE: 8/11/2020
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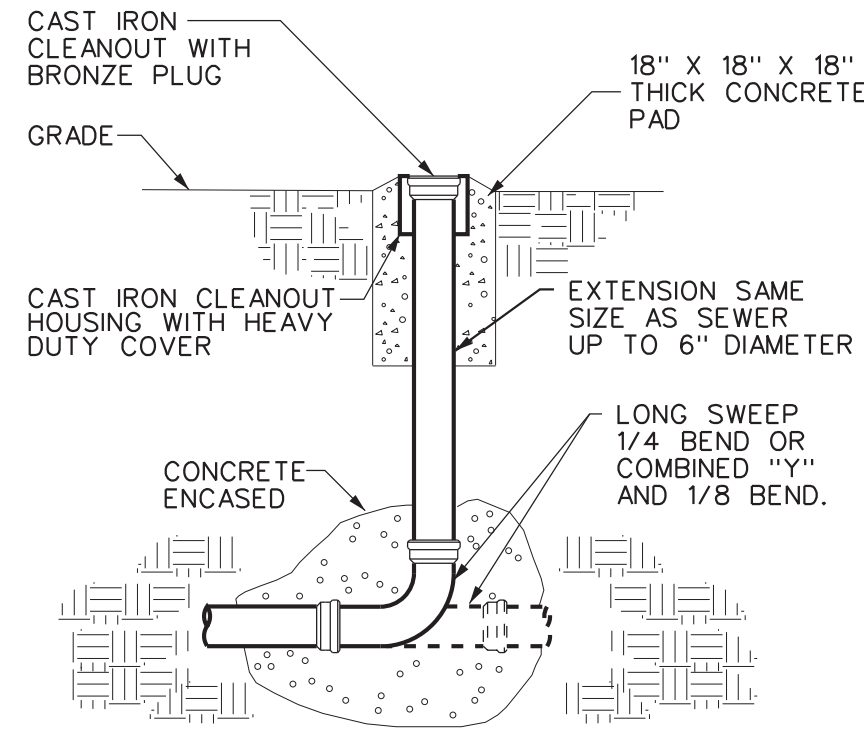
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DESIGNED BY: MUC
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CHECKED BY: RSA
SCALE: AS NOTED
NOTES:

DETAILS

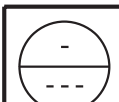
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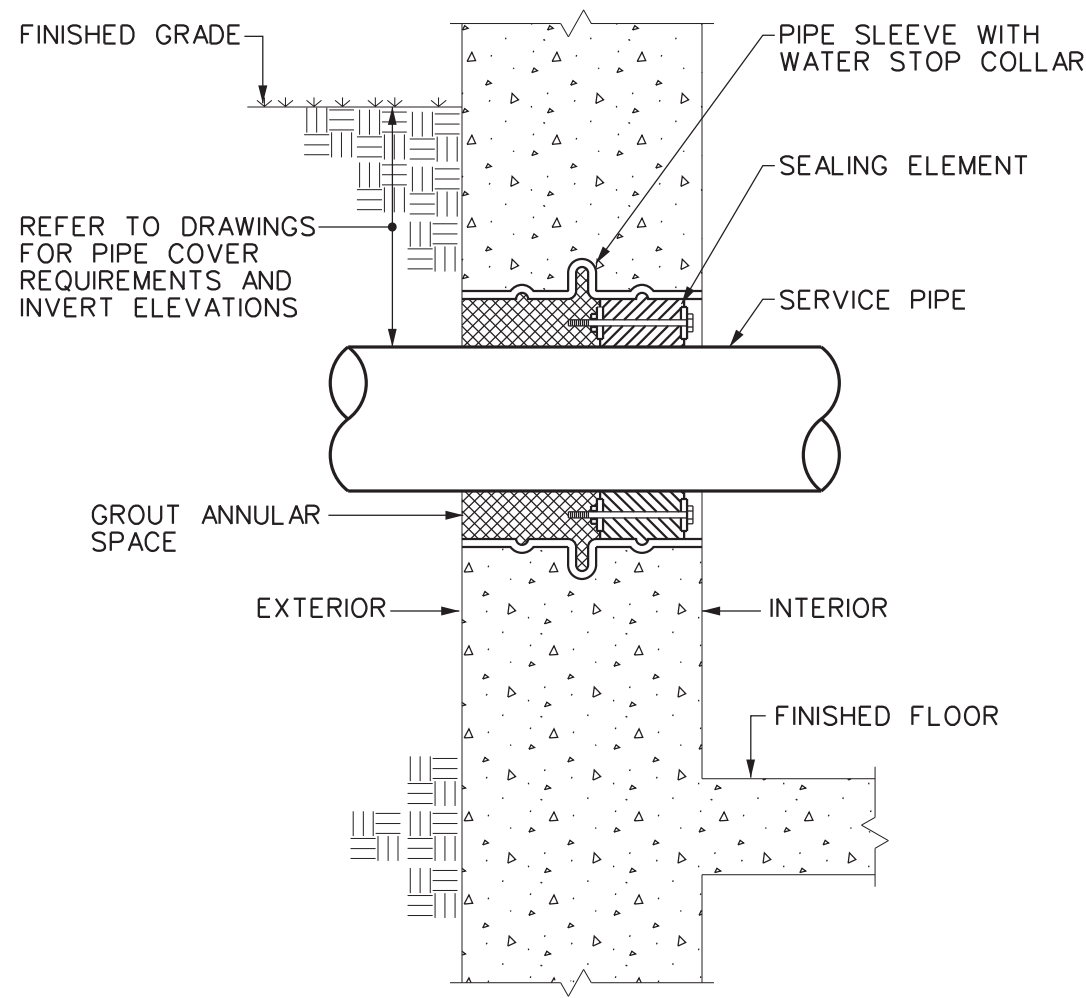
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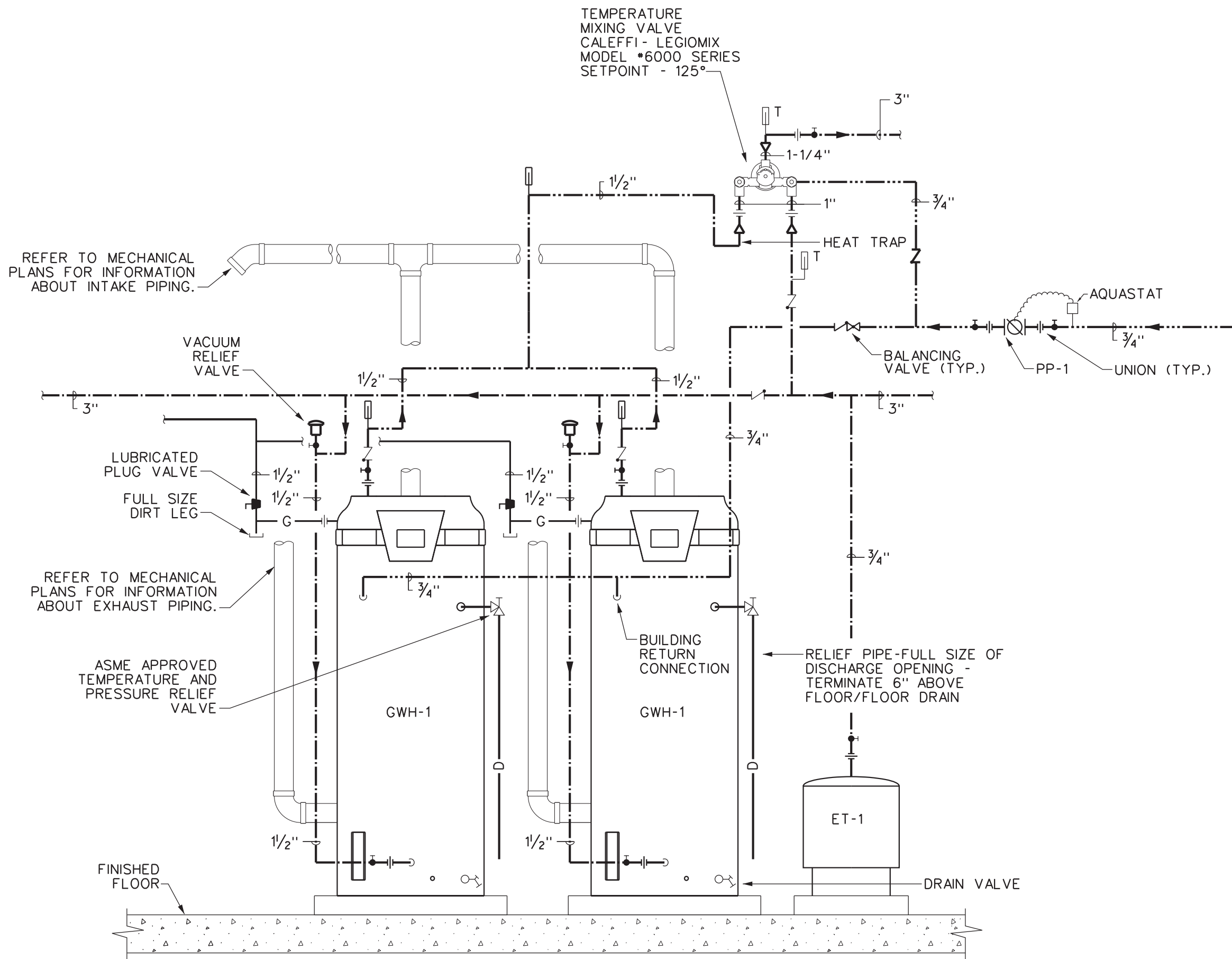


DETAIL NOTE:
A. EXTENSION AND BASE FITTINGS SHALL BE SERVICE WEIGHT CAST IRON.

 **YARD CLEANOUT DETAIL**
SCALE: NONE



 **PIPE THRU NEW EXTERIOR WALL DETAIL**
SCALE: NONE



- DETAIL NOTES:
- A. PROVIDE PIPE NIPPLE THRU EQUIPMENT CASE. CSST & FLEX CONNECTORS SHALL NOT EXTEND THRU EQUIPMENT CASE.
 - B. PROVIDE SHUT-OFF VALVE AND UNION AT EACH SUPPLY PIPING CONNECTION.
 - C. P.C. IS RESPONSIBLE FOR FINAL CONNECTIONS
 - D. THIS DETAIL IS GENERIC. WATER HEATER MFRS. INSTRUCTIONS ARE TO BE FOLLOWED WHERE THEY DIFFER FROM THESE INSTRUCTIONS.
 - E. COORDINATE WITH STRUCTURAL FOR EQUIPMENT PAD SIZES.

 **GWH-1&2 WATER HEATER DETAIL**
SCALE: NONE

DATE: 8/11/2020
REVISION:

PROJECT NO: 200095
DESIGNED BY: MJC
DRAWN BY: MJC
CHECKED BY: RSA
SCALE: AS NOTED
NOTES:

DETAILS

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