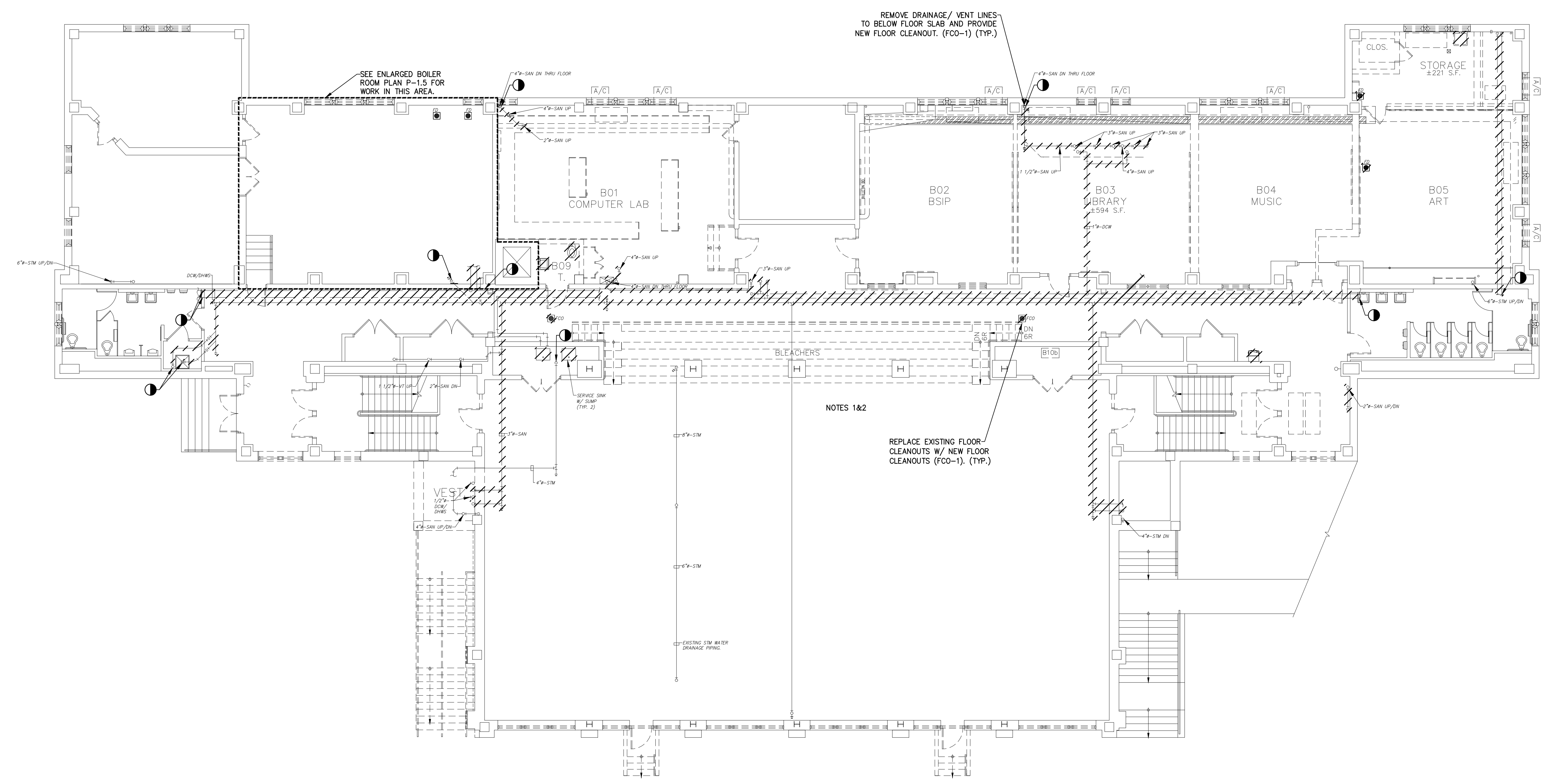


**REMINGTON & VERNICK ENGINEERS**

232 KINGS HIGHWAY EAST  
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(856) 795-9595, FAX (856) 795-1882  
WEB SITE ADDRESS : WWW.RVE.COM  
Certification of Authorization: 24 GA 28003300  
—ENGINEERING EXCELLENCE—

DATE:  
**CHRISTOPHER A. SAPONARO**  
NJ PROFESSIONAL ENGINEER LIC. No. 40059

DATE:  
**BRIAN B. GREGG**  
NJ PROFESSIONAL ENGINEER LIC. No. 46577



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

**NOTES:**

- ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
- THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE. HOWEVER, ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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NO.	REVISION	DATE	BY	CHK

**PLUMBING DEMOLITION BASEMENT FLOOR PLAN**

PENNSAUKEN BOARD OF EDUCATION  
ROOSEVELT STEM SCHOOL, ADDITION AND RENOVATIONS  
5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

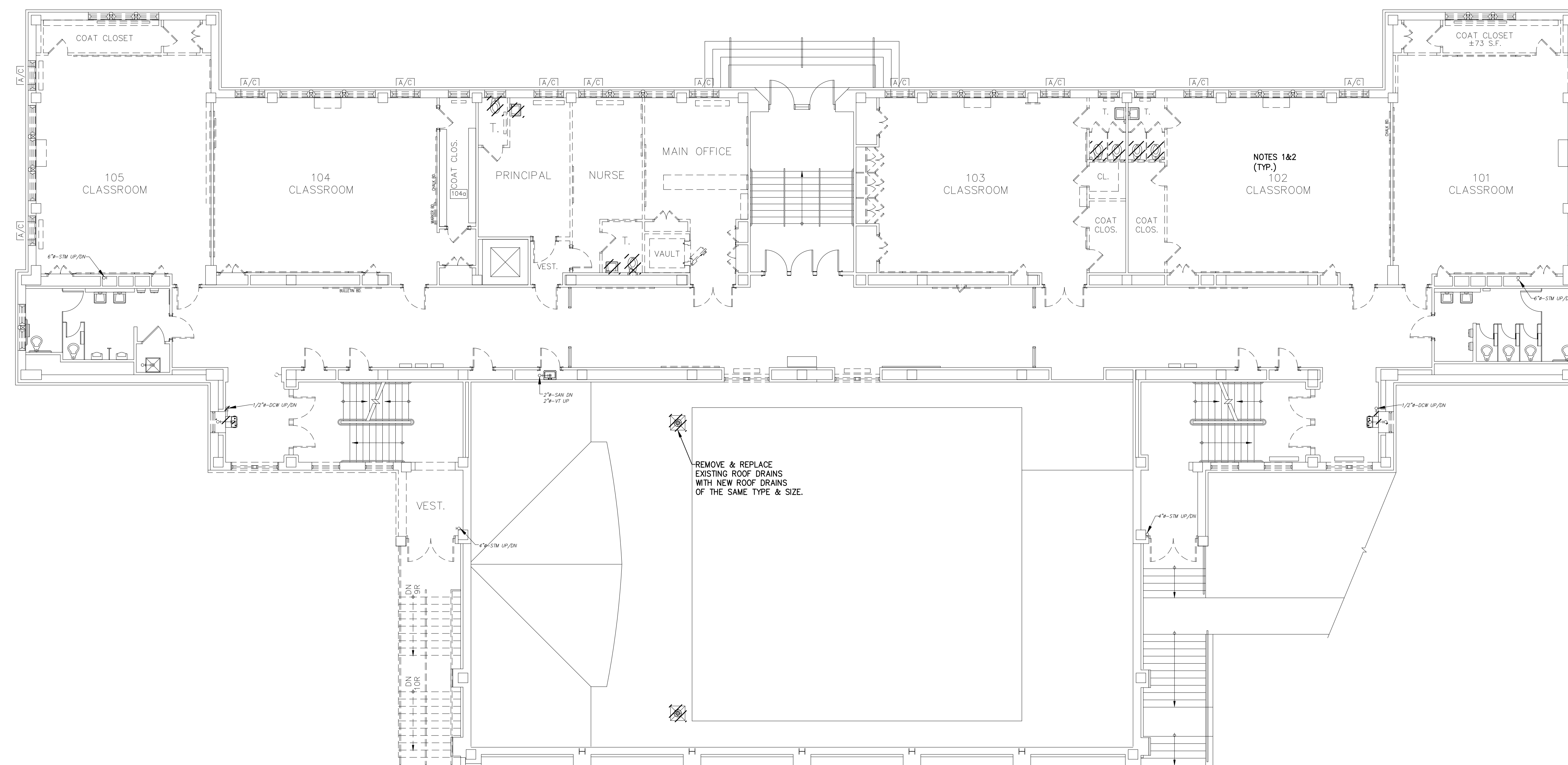
DRAWN BY	DESIGNED BY	CHECKED BY	SCALE
B.Z.	CH		AS NOTED
DATE	SHEET NO.		
10-19-2020	P-1.1		
PROJECT NO.			
MP0330049			

**ISSUED FOR BID: 11-13-2020**



DATE:  
**CHRISTOPHER A. SAPONARO**  
 NJ PROFESSIONAL ENGINEER LIC. NO. 40059

DATE:  
**BRIAN B. GREGG**  
 NJ PROFESSIONAL ENGINEER LIC. NO. 46577



1 **PLUMBING DEMOLITION FIRST FLOOR PLAN**  
 SCALE: 1/8"=1'-0"

**NOTES:**

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE, HOWEVER, ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.  
 ALL DOCUMENTS PREPARED BY REMINGTON A VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE ON OR IN ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC WORK TO BE PERFORMED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNERS SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

NO.	DATE	BY	CHECKED

**PLUMBING DEMOLITION FIRST FLOOR PLAN**  
 PENNSAUKEN BOARD OF EDUCATION  
 ROOSEVELT STEM SCHOOL, ADDITION AND RENOVATIONS  
 5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
 PENNSAUKEN TOWNSHIP, CAMDEN COUNTY, NEW JERSEY

DATE	SCALE
10-19-2020	AS NOTED

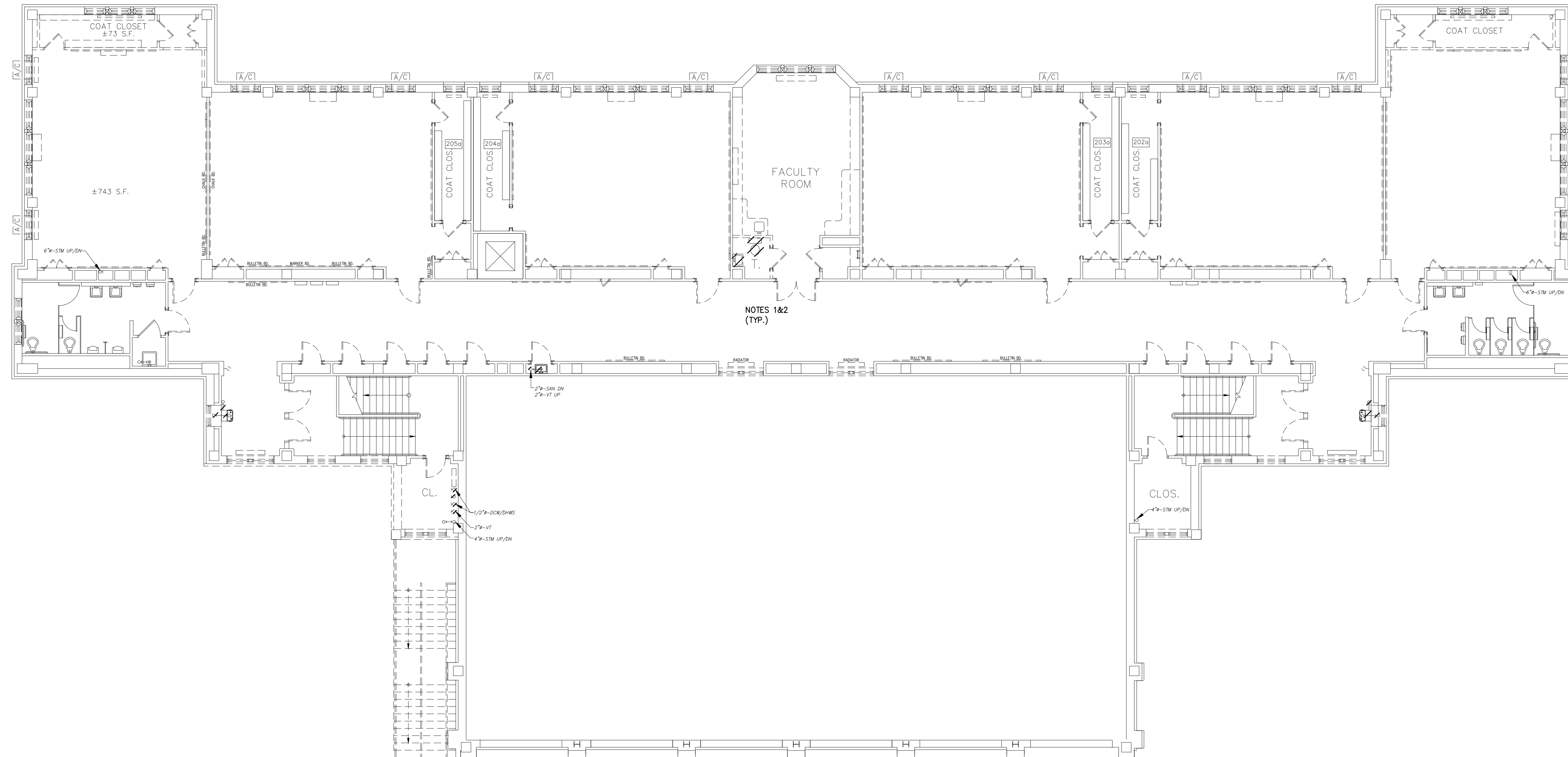
ISSUED FOR BID: 11-13-2020



**1901**  
**REMINGTON & VERNICK ENGINEERS**  
 232 KINGS HIGHWAY EAST  
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 WEB SITE ADDRESS : WWW.RVE.COM  
 Certification of Authorization: 24 GA 28003300  
 ENGINEERING EXCELLENCE

DATE:  
**CHRISTOPHER A. SAPONARO**  
 NJ PROFESSIONAL ENGINEER LIC. No. 40059

DATE:  
**BRIAN B. GREGG**  
 NJ PROFESSIONAL ENGINEER LIC. No. 46577



NOTES 1&2  
 (TYP.)

**1 PLUMBING DEMOLITION SECOND FLOOR PLAN**  
 SCALE: 1/8"=1'-0"

**NOTES:**  
 1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.  
 2. THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE. HOWEVER, ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE ON OR IN ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE SPECIFIC WORKS INTENDED WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. AND OWNERS SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

NO.	REVISION	DATE	BY	CHK

**PLUMBING DEMOLITION SECOND FLOOR PLAN**  
 PENNSAUKEN BOARD OF EDUCATION  
 ROOSEVELT STEM SCHOOL, ADDITION AND RENOVATIONS  
 5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
 PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

DRAWN BY:	DESIGNED BY:	CHECKED BY:	SCALE:
B.Z.	CH		AS NOTED
DATE:		SHEET NO.:	
10-19-2020		P-1.3	
PROJECT:			
MP0330049			

ISSUED FOR BID: 11-13-2020



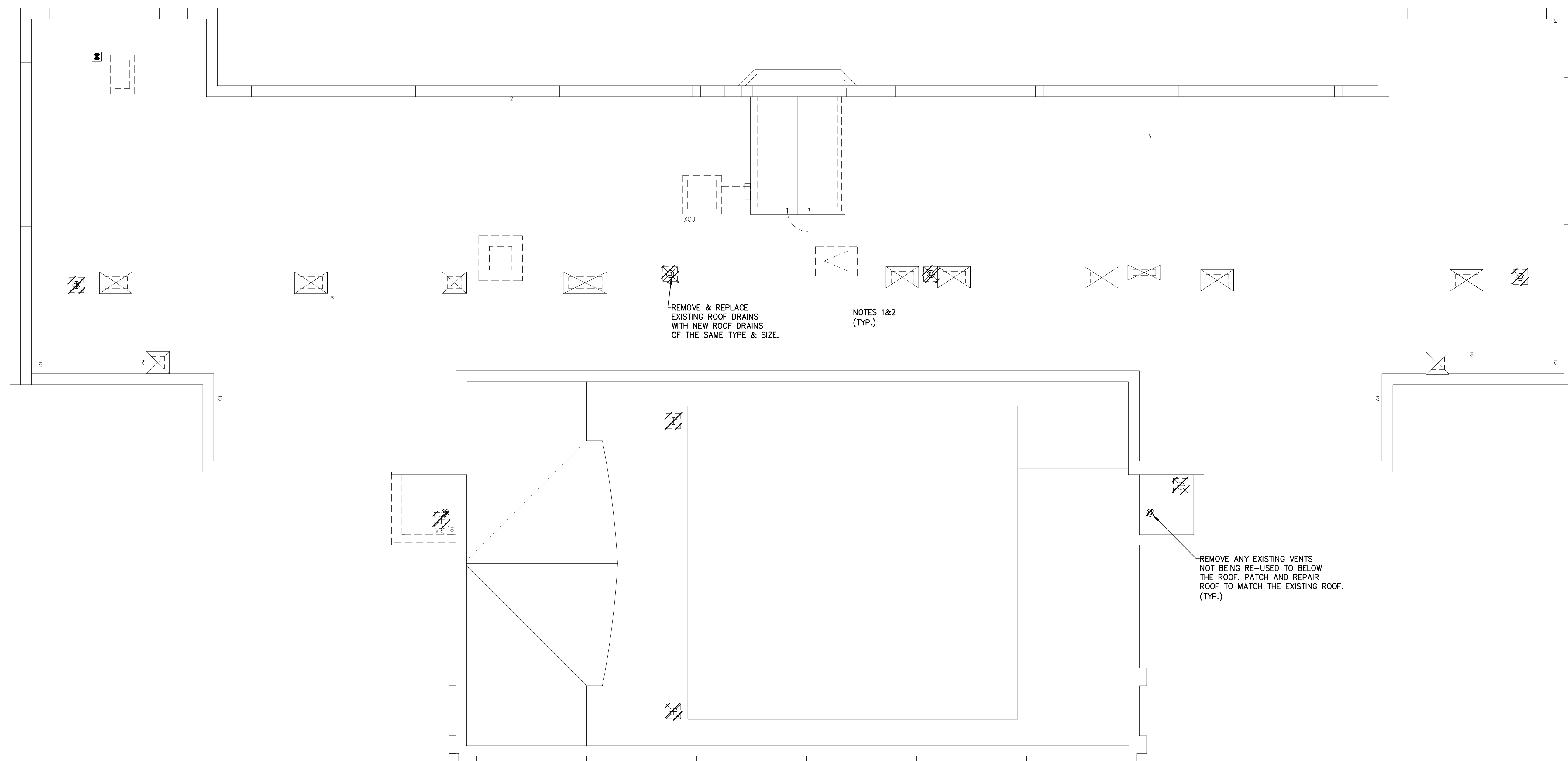


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& VERNICK  
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DATE:  
**CHRISTOPHER A. SAPONARO**  
NJ PROFESSIONAL ENGINEER LIC. NO. 40059

DATE:  
**BRIAN B. GREGG**  
NJ PROFESSIONAL ENGINEER LIC. NO. 46577



REMOVE & REPLACE  
EXISTING ROOF DRAINS  
WITH NEW ROOF DRAINS  
OF THE SAME TYPE & SIZE.

NOTES 1&2  
(TYP.)

REMOVE ANY EXISTING VENTS  
NOT BEING RE-USED TO BELOW  
THE ROOF. PATCH AND REPAIR  
ROOF TO MATCH THE EXISTING ROOF.  
(TYP.)

**1 PLUMBING DEMOLITION ROOF PLAN**  
SCALE: 1/8"=1'-0"

**NOTES:**

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE. HOWEVER, ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.

PLANS WHICH DO NOT BEAR  
AN EMBOSSED SEAL ARE NOT VALID.

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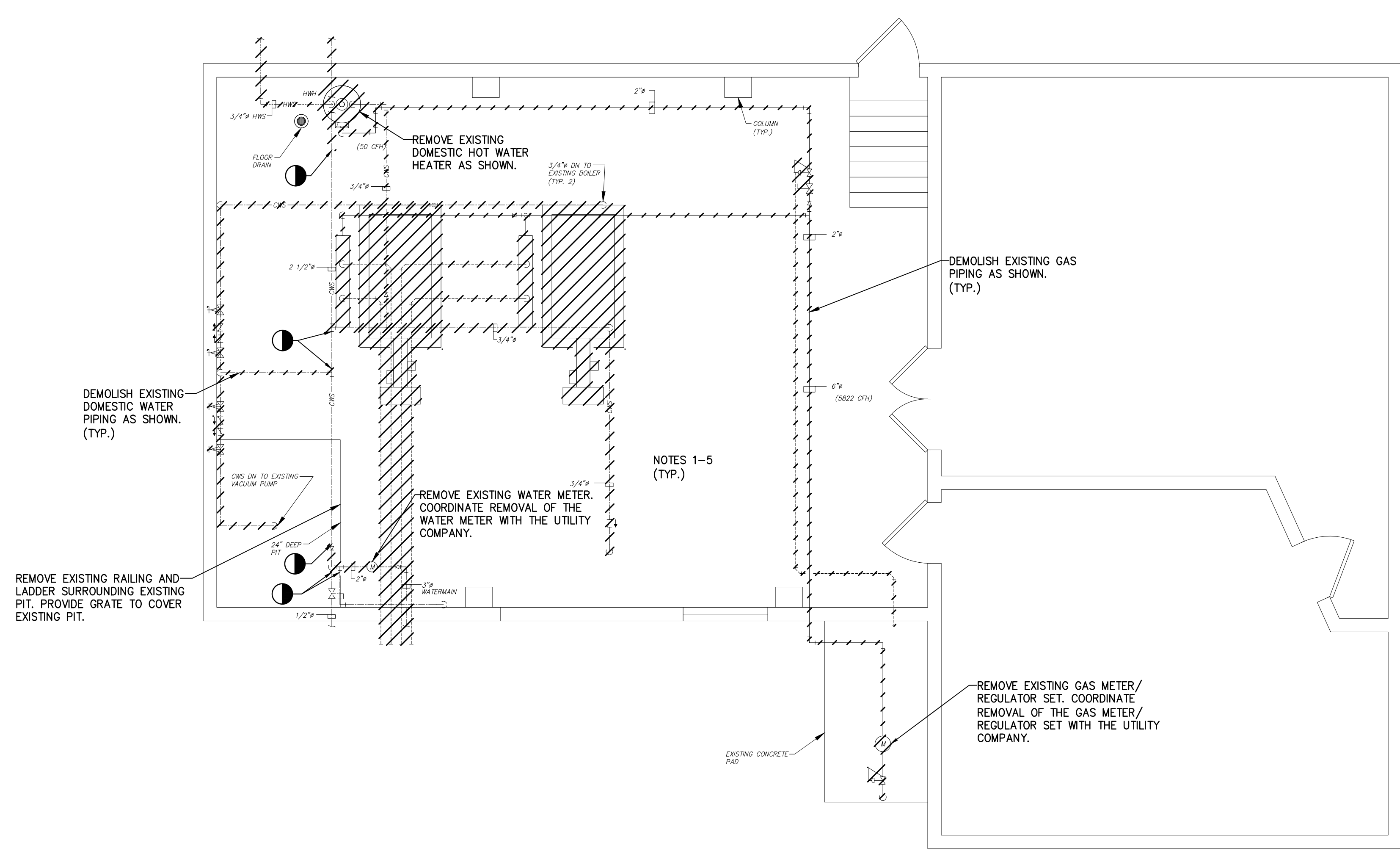
NO.	REVISION	DATE	BY	CHK

**PLUMBING DEMOLITION  
ROOF PLAN**

PENNSAUKEN BOARD OF EDUCATION  
ROOSEVELT STEM SCHOOL, ADDITION AND RENOVATIONS  
5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

DRAWN BY:	DESIGNED BY:	CHECKED BY:	SCALE:
B.Z.	CH		AS NOTED
DATE:	SHEET NO.:		
10-19-2020			
MP033XK049		P-1.4	

ISSUED FOR BID: 11-13-2020



**1 PLUMBING DEMOLITION ENLARGED BOILER ROOM FLOOR PLAN**  
SCALE: 1/4"=1'-0"

**NOTES:**

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING P-1.0 APPLY TO THIS DRAWING.
2. THIS DEMOLITION PLAN HAS BEEN PROVIDED AS A GUIDE. HOWEVER, ALL DEMOLITION REQUIRED TO SUCCESSFULLY COMPLETE THIS PROJECT SHALL BE INCLUDED IN THE SCOPE OF WORK. IT IS THE INTENT OF THE PLANS AND SPECIFICATIONS TO SECURE A COMPLETELY INTERCONNECTED AND FUNCTIONING SYSTEM AND IF ANY WORKMANSHIP OR MATERIALS BE REQUIRED WHICH ARE OBVIOUSLY NECESSARY TO CARRY OUT THE FULL INTENT AND MEANING OF THE PLANS AND SPECIFICATIONS OR TO BE REASONABLY INFERRED THEREFROM, THE COST OF SUCH WORKMANSHIP OR MATERIALS SHALL BE INCLUDED IN THE SCOPE OF WORK.
3. THE CONTRACTOR IS RESPONSIBLE FOR REPAIRING & REPLACING ANY OR ALL FIXTURES AND/OR AREAS OF THE CEILING, FLOOR OR WALL DAMAGED AS A RESULT OF THE NEW/DEMOLITION WORK. REPAIRED & REPLACED FIXTURES AND PORTIONS OF THE CEILING, FLOOR, OR WALL SHALL BE RESTORED TO A CONDITION EQUAL TO OR BETTER THAN THEIR ORIGINAL CONDITION.
4. DEMOLISH ALL UTILITY PIPING BACK TO MAIN AS SHOWN. TEMPORARILY CAP BRANCH PIPING IF BEING RE-USED FOR THE NEW WORK. PERMANENTLY CAP UNUSED PIPE AT MAIN AIR/WATER TIGHT. PROVIDE FLOOR CLEANOUTS FOR ALL UNUSED/ABANDONED SANITARY DRAIN PIPING.
5. THE EXISTING PIPING LAYOUT AS SHOWN IS APPROXIMATE. CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS PRIOR TO COMMENCING WORK AND NOTIFY ARCHITECT/ ENGINEER OF MAJOR DISCREPANCIES.

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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NO.	REVISION	DATE	BY	CHK

**PLUMBING DEMOLITION ENLARGED BOILER ROOM FLOOR PLAN**

PENNSAUKEN BOARD OF EDUCATION  
ROOSEVELT STEM SCHOOL, ADDITION AND RENOVATIONS  
5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

DRAWN BY:	DESIGNED BY:	CHECKED BY:	SCALE:
B.Z.	CH		AS NOTED
DATE:	SHEET NO.:		
10-19-2020	P-1.5		
PROJECT:			
MP0330049			

ISSUED FOR BID: 11-13-2020



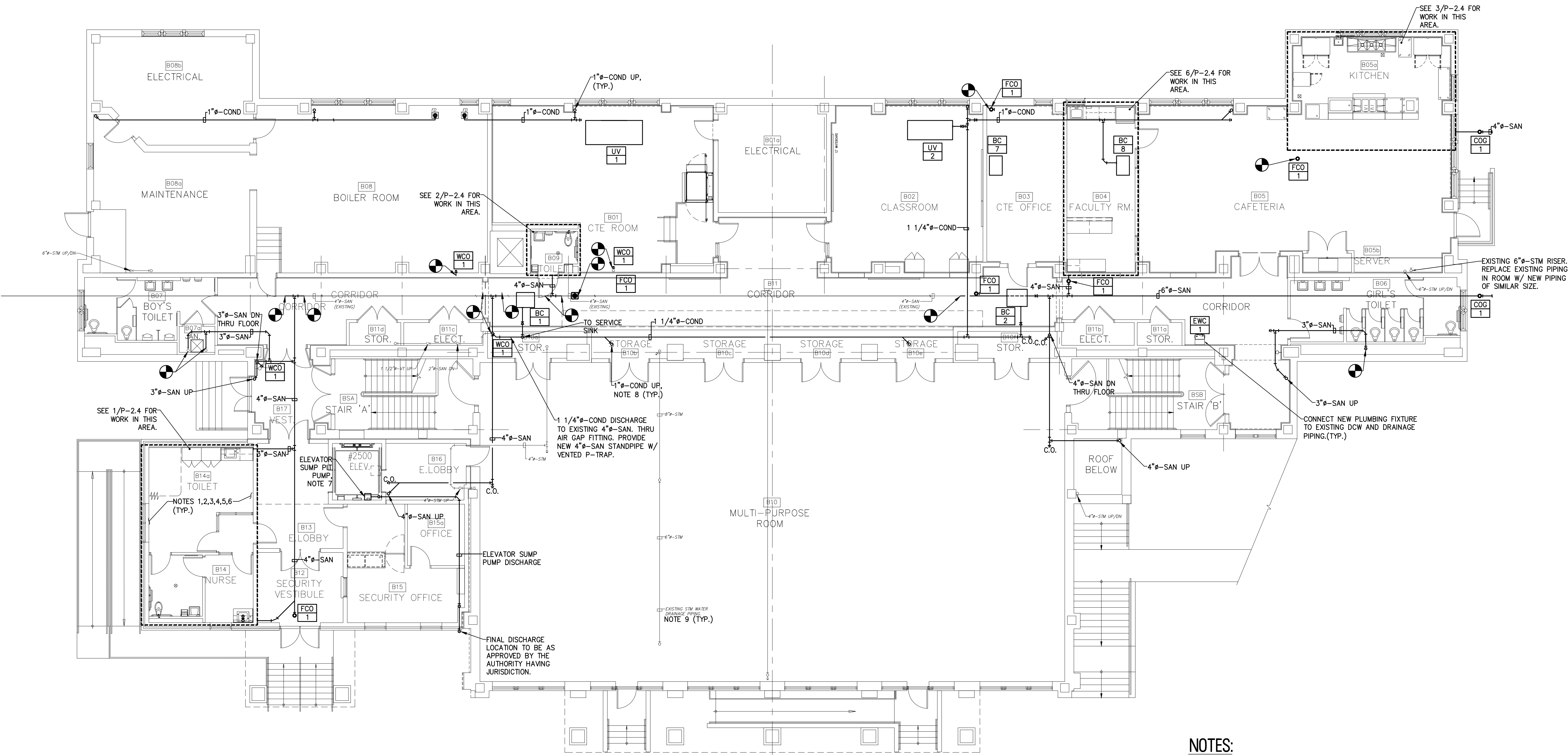


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Certification of Authorization: 24 GA 28003300  
-ENGINEERING EXCELLENCE-

DATE:  
**CHRISTOPHER A. SAPONARO**  
NJ PROFESSIONAL ENGINEER LIC. No. 40059

DATE:  
**BRIAN B. GREGG**  
NJ PROFESSIONAL ENGINEER LIC. No. 46577



**NOTES:**

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. ALL INVERTS SHOWN ARE APPROXIMATE. INVERT ELEVATION BASED ON FINISHED FLOOR ELEVATION OF 0.00'.
3. ALL HORIZONTAL DRAINAGE PIPING 3 INCHES IN DIAMETER AND SMALLER SHALL BE SLOPED A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. ALL HORIZONTAL DRAINAGE PIPING 4 INCHES IN DIAMETER AND LARGER SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT IN THE DIRECTION OF FLOW.
4. CONTRACTOR SHALL ROUTE DRAINAGE RISERS AND VENT LINES IN THE WALLS WHERE SHOWN. WHERE PIPING CANNOT BE LOCATED IN WALLS, THE CONTRACTOR SHALL PROVIDE CHASE WALLS AS REQUIRED TO CONCEAL PIPING FROM VIEW, CHASE WALL AND FINISH TO MATCH SURROUNDING WALLS. COORDINATE ALL CHASE WALLS WITH ARCHITECT.
5. COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES. RELOCATE NEW PIPE TO ACCOMMODATE NEW DUCTWORK, EQUIPMENT, STRUCTURE, CONDUIT, ETC.
6. NOT ALL PIPE SIZES AND INLINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY PURPOSES. SEE THE PLUMBING RISER DIAGRAMS AND DETAIL SHEET(S) FOR ADDITIONAL REQUIREMENTS AND DETAILS. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, FITTINGS, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN OR RISER DIAGRAMS.
7. PROVIDE ELEVATOR SUMP PIT PUMPING SYSTEM AND ALL ASSOCIATED PIPING AND CONTROLS. SUMP PUMP SYSTEM SHALL BE A LIBERTY PUMP ELV-SERIES OR APPROVED EQUAL (3/4" HP, 115V, WITH OIL TECTOR CONTROL & ALARM). PUMP AND PIPING INSTALLATION SHALL BE IN ACCORDANCE WITH THE PUMP SYSTEM MANUFACTURER, THE NSFC AND THE ELEVATOR SUBCODE.
8. ALL CONDENSATE PIPING & FITTINGS SHALL BE TYPE "C" COPPER. INSTALL CONDENSATE PIPING IN ACCORDANCE WITH THE NSFC 2018.
9. INSULATE ALL EXISTING STORM DRAINAGE PIPING (1 1/2" THICK). PAINT ALL EXPOSED INSULATION JACKETING.

**1 PLUMBING SANITARY PIPING BASEMENT FLOOR PLAN**  
SCALE: 1/8"=1'-0"

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NO.	REVISION	DATE	BY	CHK

**PLUMBING SANITARY PIPING BASEMENT FLOOR PLAN**  
PENNSAUKEN BOARD OF EDUCATION  
ROOSEVELT STEM SCHOOL, ADDITION AND RENOVATIONS  
5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

DATE	SHEET NO.
10-19-2020	P-2.1
MP0330049	

ISSUED FOR BID: 11-13-2020



**REMINGTON & VERNICK ENGINEERS**

232 KINGS HIGHWAY EAST  
HADDONFIELD, NJ 08033  
(856) 795-9595, FAX (856) 795-1882  
WEB SITE ADDRESS : WWW.RVE.COM

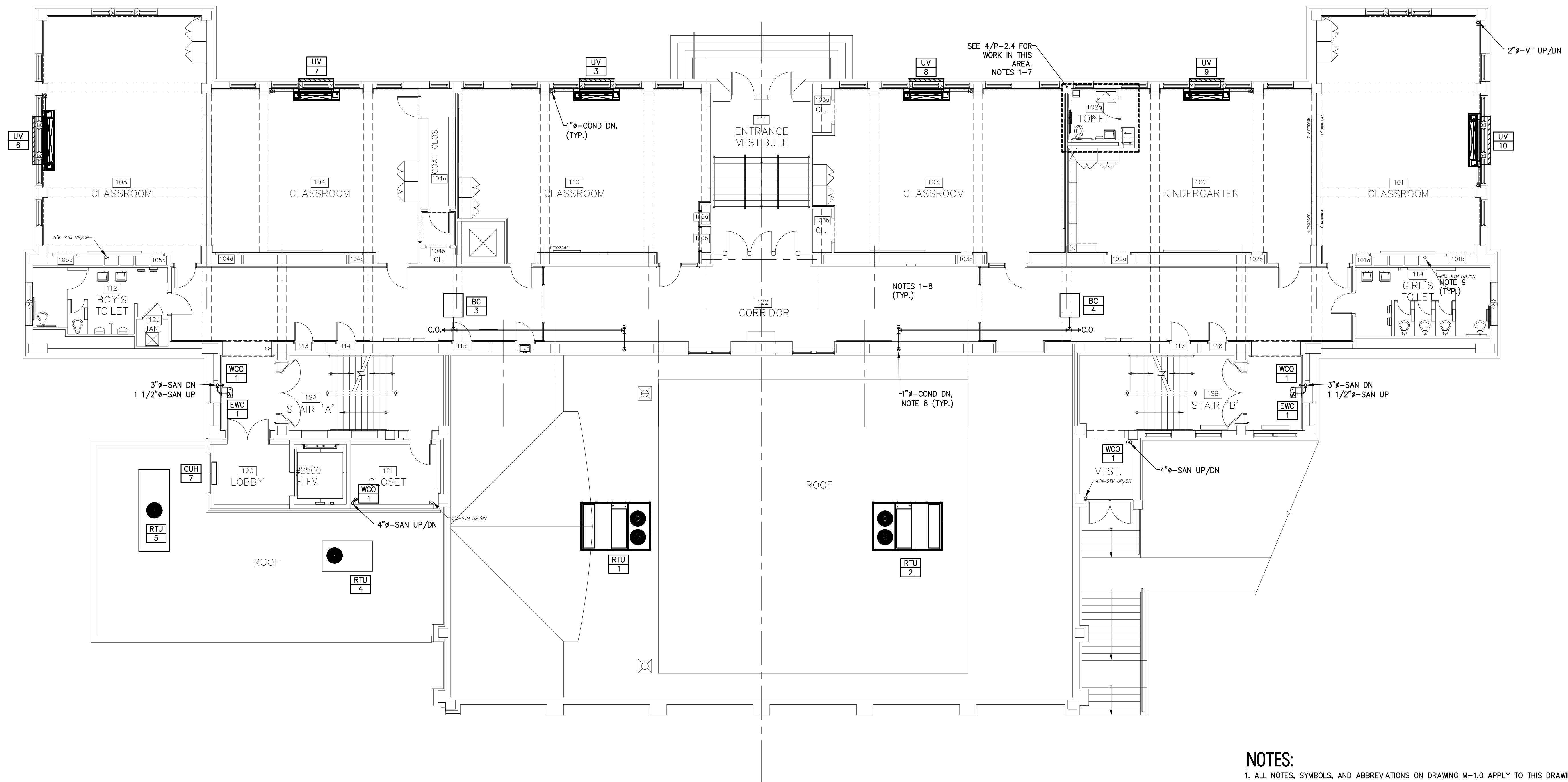
Certification of Authorization: 24 GA 28003300  
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DATE:

**CHRISTOPHER A. SAPONARO**  
NJ PROFESSIONAL ENGINEER LIC. No. 40059

DATE:

**BRIAN B. GREGG**  
NJ PROFESSIONAL ENGINEER LIC. No. 46577



**NOTES:**

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. ALL INVERTS SHOWN ARE APPROXIMATE. INVERT ELEVATION BASED ON FINISHED FLOOR ELEVATION OF 0.00'.
3. ALL HORIZONTAL DRAINAGE PIPING 3 INCHES IN DIAMETER AND SMALLER SHALL BE SLOPED A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. ALL HORIZONTAL DRAINAGE PIPING 4 INCHES IN DIAMETER AND LARGER SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT IN THE DIRECTION OF FLOW.
4. CONTRACTOR SHALL ROUTE DRAINAGE RISERS AND VENT LINES IN THE WALLS WHERE SHOWN. WHERE PIPING CAN NOT BE LOCATED IN WALLS, THE CONTRACTOR SHALL PROVIDE CHASE WALLS AS REQUIRED TO CONCEAL PIPING FROM VIEW. CHASE WALL AND FINISH TO MATCH SURROUNDING WALLS. COORDINATE ALL CHASE WALLS WITH ARCHITECT.
5. COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES. RELOCATE NEW PIPE TO ACCOMMODATE NEW DUCTWORK, EQUIPMENT, STRUCTURE, CONDUIT, ETC.
6. NOT ALL PIPE SIZES AND INLINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY PURPOSES. SEE THE PLUMBING RISER DIAGRAMS AND DETAIL SHEET(S) FOR ADDITIONAL REQUIREMENTS AND DETAILS. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, FITTINGS, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN OR RISER DIAGRAMS.
7. SLOPE VENT PIPE SO THAT THE VERTICAL VENT DROP WILL DRAIN BY GRAVITY TO THE DRAINAGE SYSTEM.
8. ALL CONDENSATE PIPING & FITTINGS SHALL BE TYPE "C" COPPER. INSTALL CONDENSATE PIPING IN ACCORDANCE WITH THE NSFC 2018.
9. INSULATE ALL EXISTING STORM DRAINAGE PIPING (1 1/2" THICK). PAINT ALL EXPOSED INSULATION JACKETING.

**1 PLUMBING SANITARY PIPING FIRST FLOOR PLAN**  
SCALE: 1/8"=1'-0"

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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NO.	DATE	BY	CHK	REVISION

**PLUMBING SANITARY PIPING FIRST FLOOR PLAN**

PENNSAUKEN BOARD OF EDUCATION  
**ROOSEVELT STEM SCHOOL ADDITION AND RENOVATIONS**  
 5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
 PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

DRAWN BY:	DESIGNED BY:	CHECKED BY:	SCALE:
B.Z.	C.H.		AS NOTED
DATE:	SHEET NO.:	P-2.2	
10-19-2020	208		
PROJECT:	PROJECT NO.:		
MP0330049			

**ISSUED FOR BID: 11-13-2020**



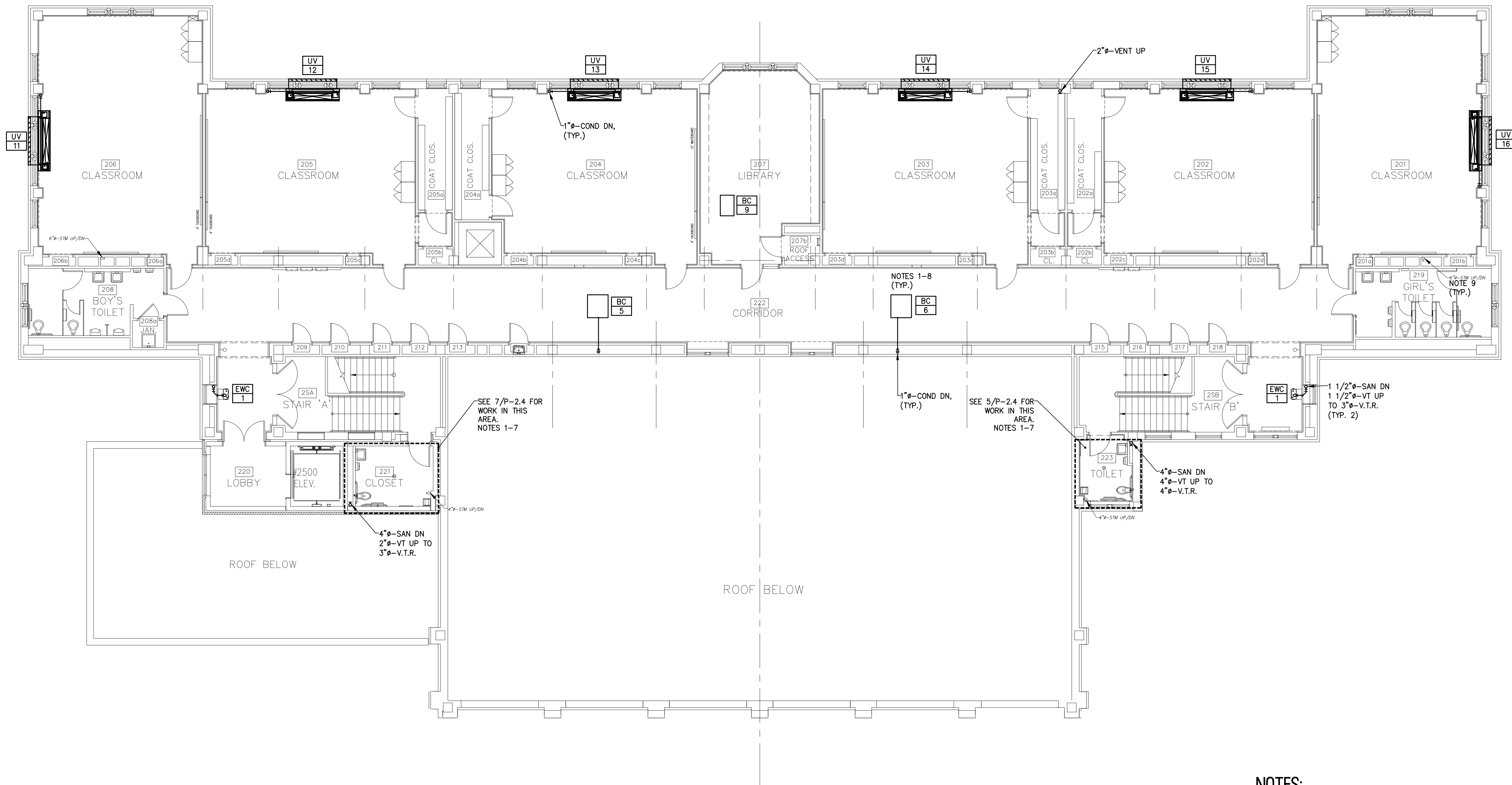


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NJ PROFESSIONAL ENGINEER LIC. No. 40059

DATE:  
**BRIAN B. GREGG**  
NJ PROFESSIONAL ENGINEER LIC. No. 46577



**1 PLUMBING SANITARY PIPING SECOND FLOOR PLAN**  
SCALE: 1/8"=1'-0"

- NOTES:**
- ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
  - ALL INVERTS SHOWN ARE APPROXIMATE. INVERT ELEVATION BASED ON FINISHED FLOOR ELEVATION OF 0.00'
  - ALL HORIZONTAL DRAINAGE PIPING 3 INCHES IN DIAMETER AND SMALLER SHALL BE SLOPED A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. ALL HORIZONTAL DRAINAGE PIPING 4 INCHES IN DIAMETER AND LARGER SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT IN THE DIRECTION OF FLOW.
  - CONTRACTOR SHALL ROUTE DRAINAGE RISERS AND VENT LINES IN THE WALLS WHERE SHOWN. WHERE PIPING CAN NOT BE LOCATED IN WALLS, THE CONTRACTOR SHALL PROVIDE CHASE WALLS AS REQUIRED TO CONCEAL PIPING FROM VIEW. CHASE WALL AND FINISH TO MATCH SURROUNDING WALLS. COORDINATE ALL CHASE WALLS WITH ARCHITECT.
  - COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES. RELOCATE NEW PIPE TO ACCOMMODATE NEW DUCTWORK, EQUIPMENT, STRUCTURE, CONDUIT, ETC.
  - NOT ALL PIPE SIZES AND INLINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY PURPOSES. SEE THE PLUMBING RISER DIAGRAMS AND DETAIL SHEET(S) FOR ADDITIONAL REQUIREMENTS AND DETAILS. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, FITTINGS, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN OR RISER DIAGRAMS.
  - SLOPE VENT PIPE SO THAT THE VERTICAL VENT DROP WILL DRAIN BY GRAVITY TO THE DRAINAGE SYSTEM.
  - ALL CONDENSATE PIPING & FITTINGS SHALL BE TYPE "C" COPPER. INSTALL CONDENSATE PIPING IN ACCORDANCE WITH THE NSPS 2018.
  - INSULATE ALL EXISTING STORM DRAINAGE PIPING (1 1/2" THICK). PAINT ALL EXPOSED INSULATION JACKETING.

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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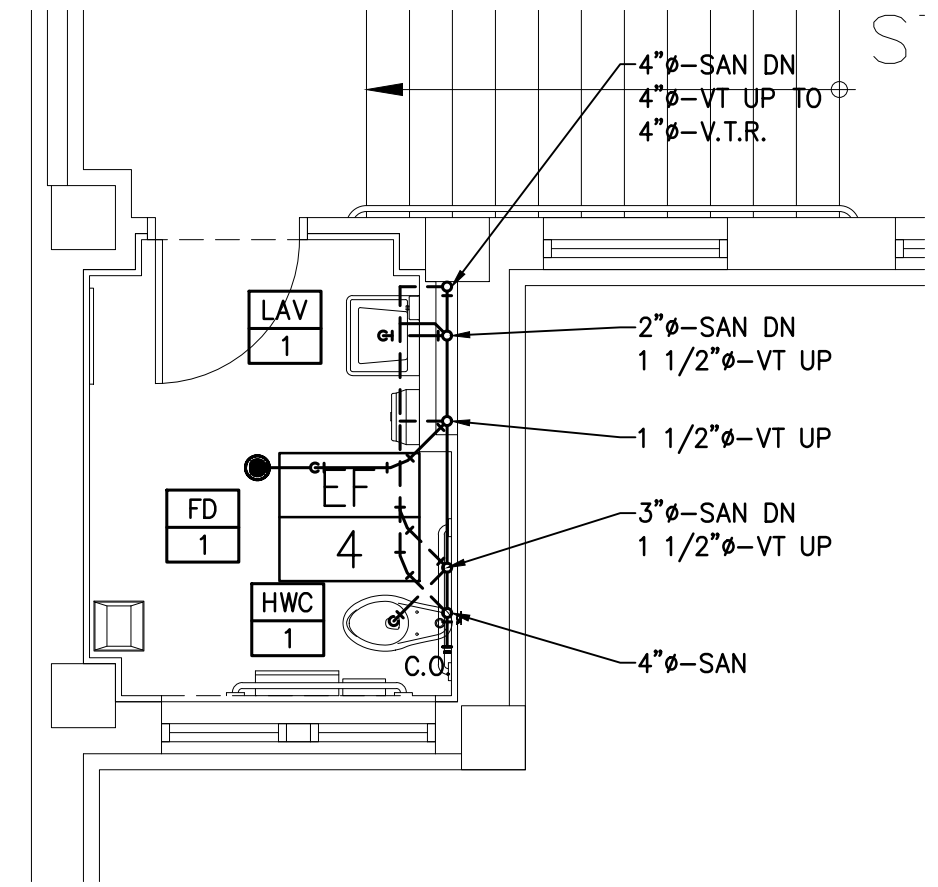
NO.	DATE	BY	CHK

**PLUMBING SANITARY PIPING SECOND FLOOR PLAN**  
PENNSAUKEN BOARD OF EDUCATION  
ROOSEVELT STEM SCHOOL ADDITION AND RENOVATIONS  
5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

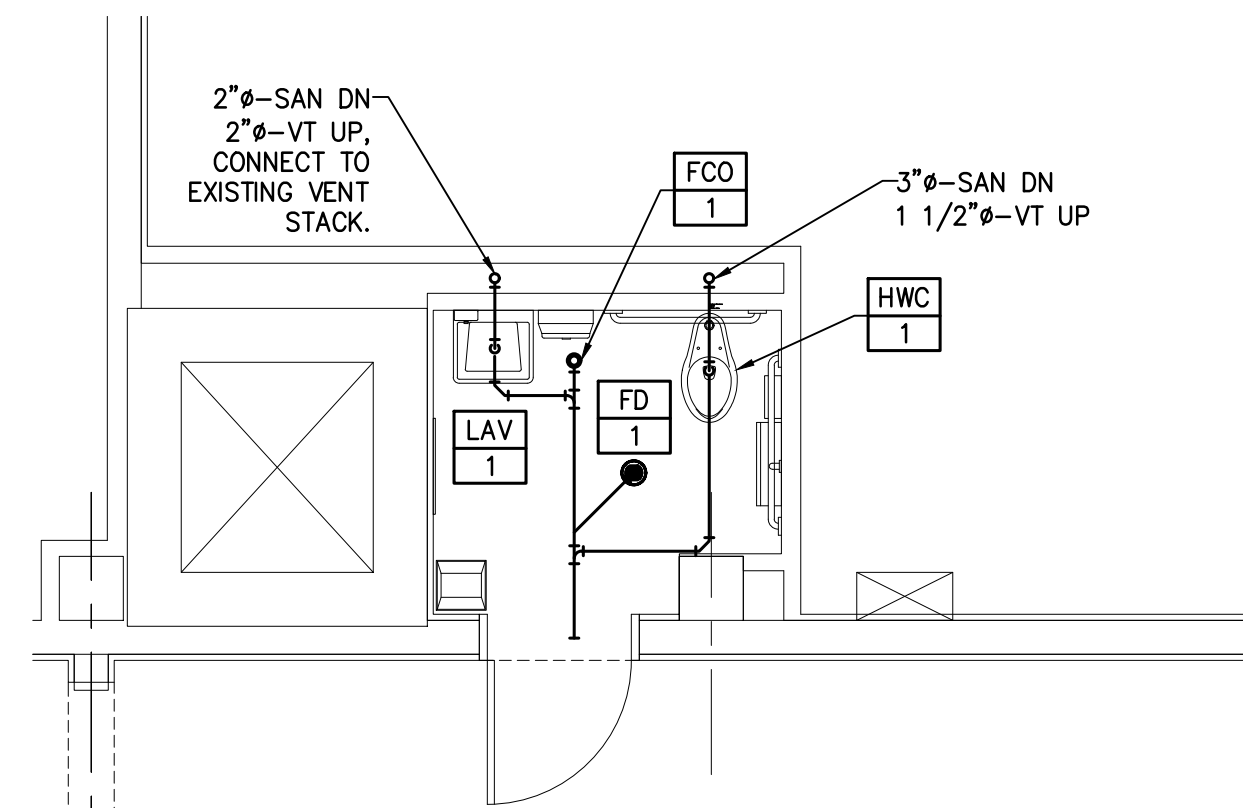
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B.Z.	C.H.		AS NOTED
DATE:	SHEET NO.:	P-2.3	
10-19-2020	208		
PROJECT:			
MP03300409			

ISSUED FOR BID: 11-13-2020

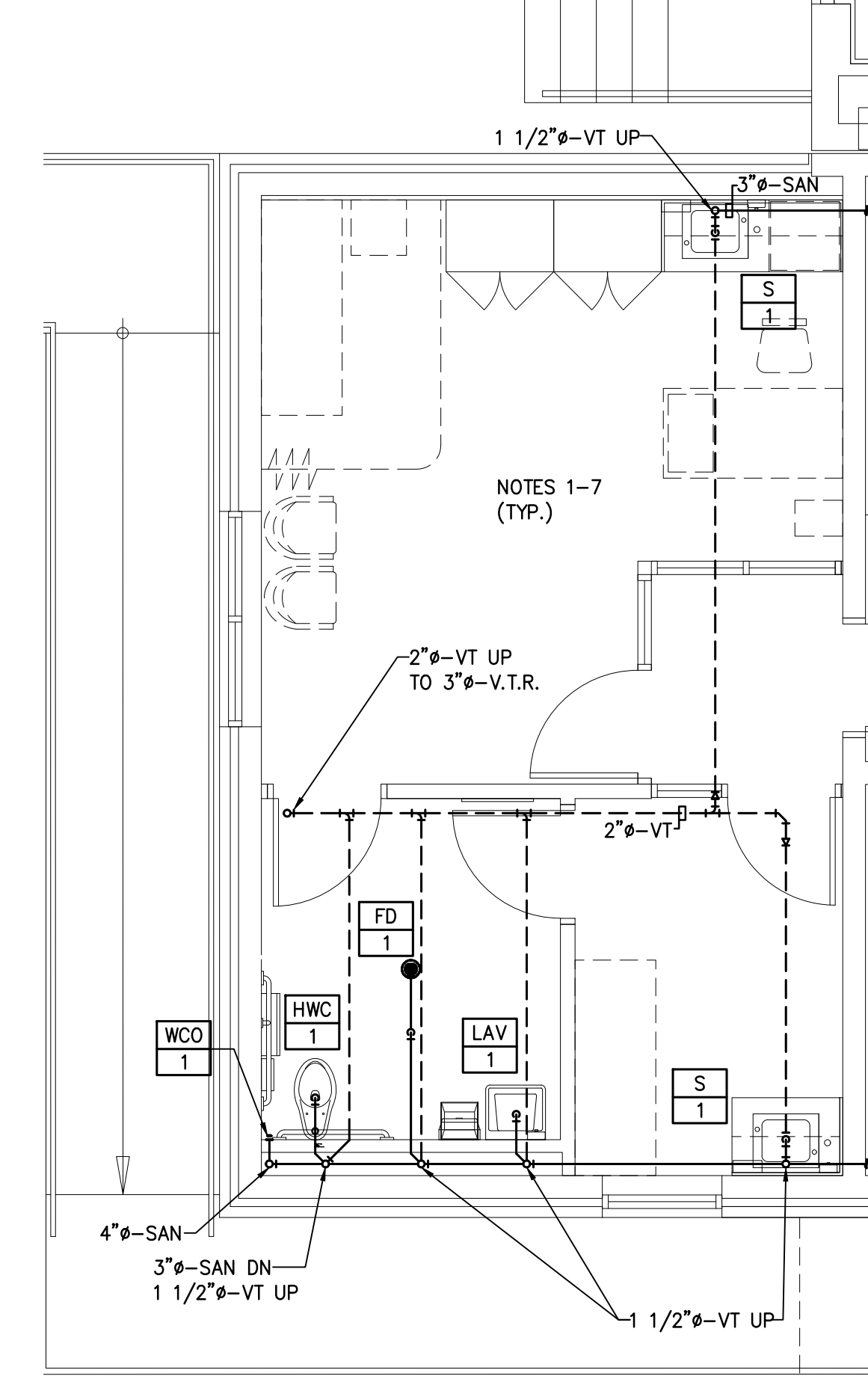




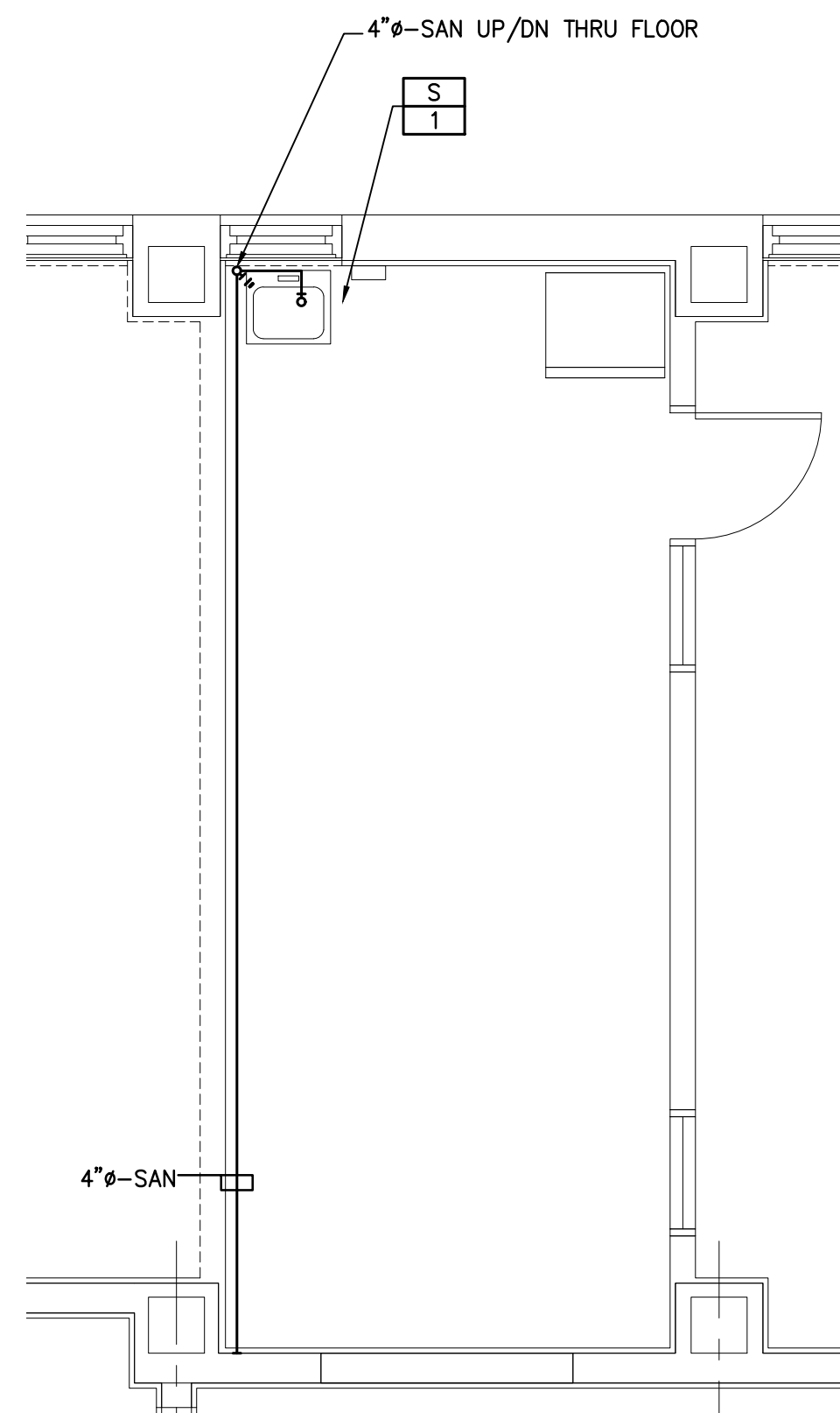
**5 PLUMBING SANITARY PIPING TOILET ROOM 223**  
SCALE: 1/4"=1'-0"



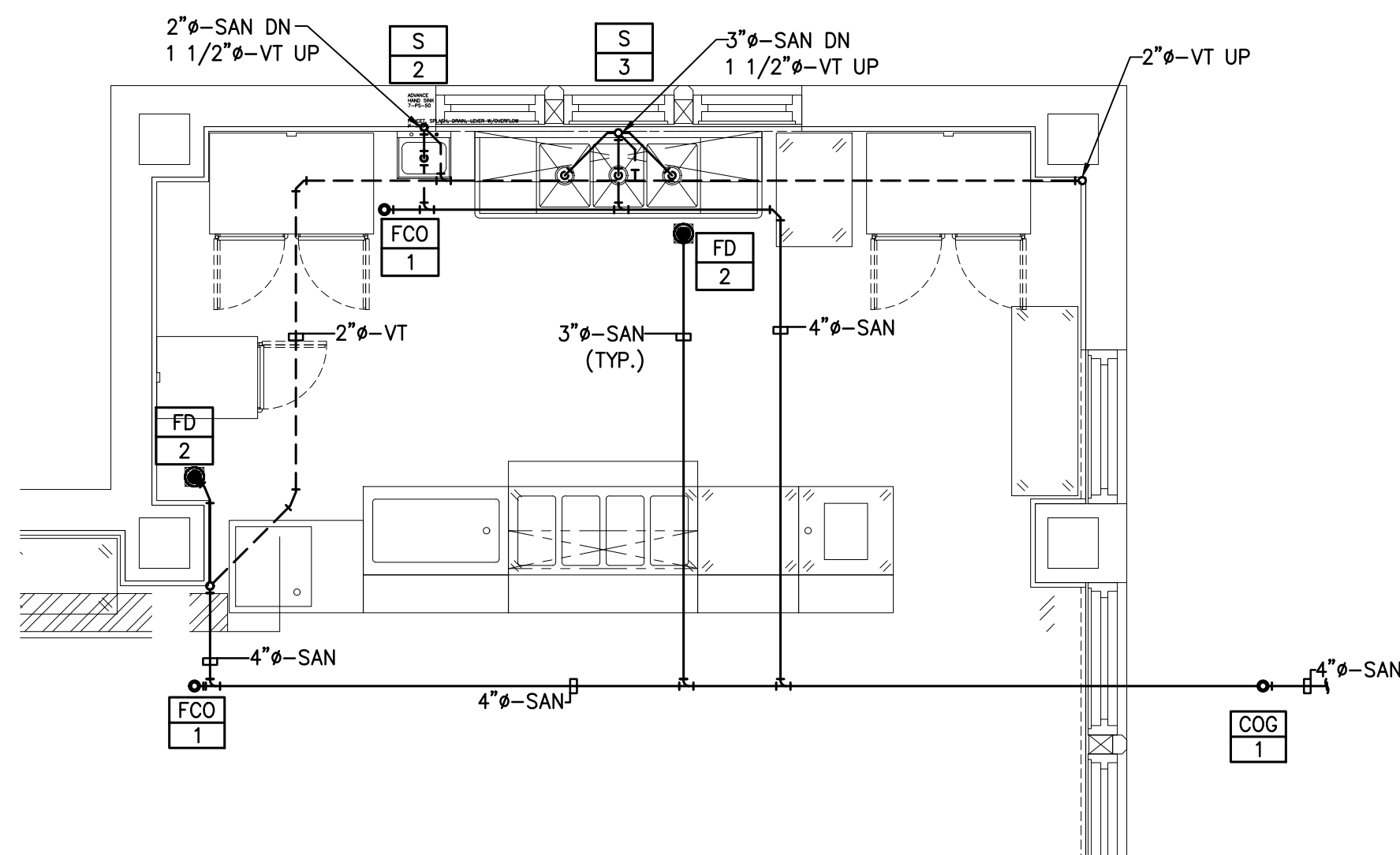
**2 PLUMBING SANITARY PIPING TOILET ROOM B09**  
SCALE: 1/4"=1'-0"



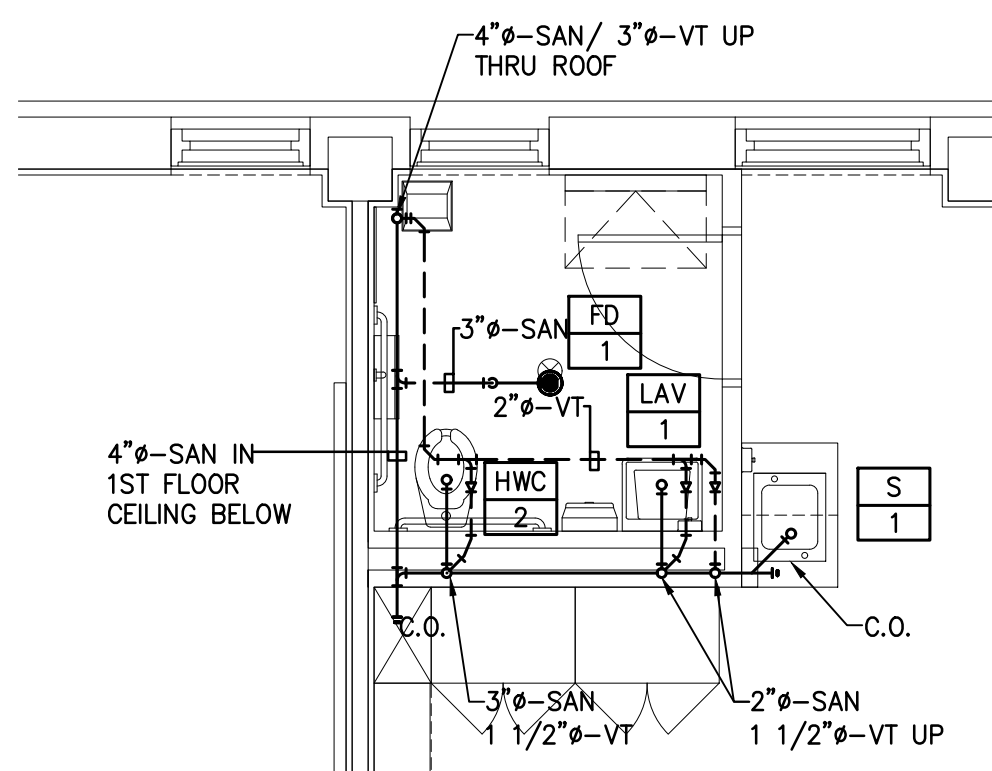
**1 PLUMBING SANITARY PIPING TOILET ROOM B14A**  
SCALE: 1/4"=1'-0"



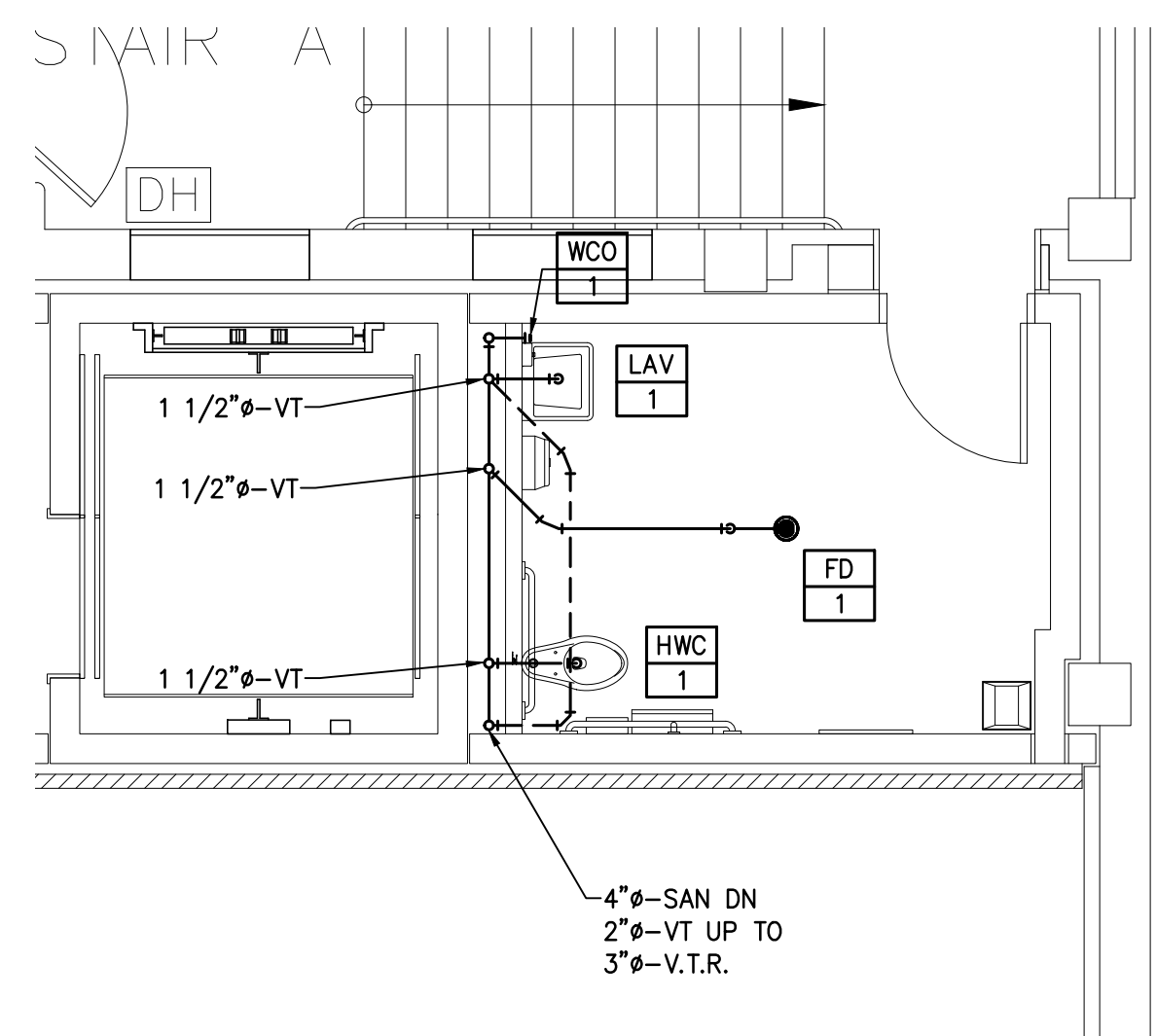
**6 PLUMBING SANITARY PIPING FACULTY ROOM B04**  
SCALE: 1/4"=1'-0"



**3 PLUMBING SANITARY PIPING KITCHEN B05A**  
SCALE: 1/4"=1'-0"



**4 PLUMBING SANITARY PIPING TOILET ROOM 102A**  
SCALE: 1/4"=1'-0"



**7 PLUMBING SANITARY PIPING TOILET ROOM 221**  
SCALE: 1/4"=1'-0"

**NOTES: (SANITARY VENT/ DRAINAGE PIPING)**

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. ALL INVERTS SHOWN ARE APPROXIMATE. INVERT ELEVATION BASED ON FINISHED FLOOR ELEVATION OF 0.00'.
3. ALL HORIZONTAL DRAINAGE PIPING 3 INCHES IN DIAMETER AND SMALLER SHALL BE SLOPED A MINIMUM OF 1/4" PER FOOT IN THE DIRECTION OF FLOW. ALL HORIZONTAL DRAINAGE PIPING 4 INCHES IN DIAMETER AND LARGER SHALL BE SLOPED A MINIMUM OF 1/8" PER FOOT IN THE DIRECTION OF FLOW.
4. CONTRACTOR SHALL ROUTE DRAINAGE RISERS AND VENT LINES IN THE WALLS WHERE SHOWN, WHERE PIPING CAN NOT BE LOCATED IN WALLS. THE CONTRACTOR SHALL PROVIDE CHASE WALLS AS REQUIRED TO CONCEAL PIPING FROM NEW CHASE WALL AND FINISH TO MATCH SURROUNDING WALLS. COORDINATE ALL CHASE WALLS WITH ARCHITECT.
5. COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES. RELOCATE NEW PIPE TO ACCOMMODATE NEW DUCTWORK, EQUIPMENT, STRUCTURE, CONDUIT, ETC.
6. NOT ALL PIPE SIZES AND INLINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY PURPOSES. SEE THE PLUMBING RISER DIAGRAMS AND DETAIL SHEET(S) FOR ADDITIONAL REQUIREMENTS AND DETAILS. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, FITTINGS, ETC., AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN OR RISER DIAGRAMS.
7. SLOPE VENT PIPE SO THAT THE VERTICAL VENT DROP WILL DRAIN BY GRAVITY TO THE DRAINAGE SYSTEM.

**ISSUED FOR BID: 11-13-2020**

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NO.	DATE	BY	CHK

**PLUMBING ENLARGED SANITARY PIPING FLOOR PLANS**  
PENNSAUKEN BOARD OF EDUCATION  
ROOSEVELT STEM SCHOOL ADDITION AND RENOVATIONS  
5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
CAMDEN COUNTY  
NEW JERSEY  
PENNSAUKEN TOWNSHIP

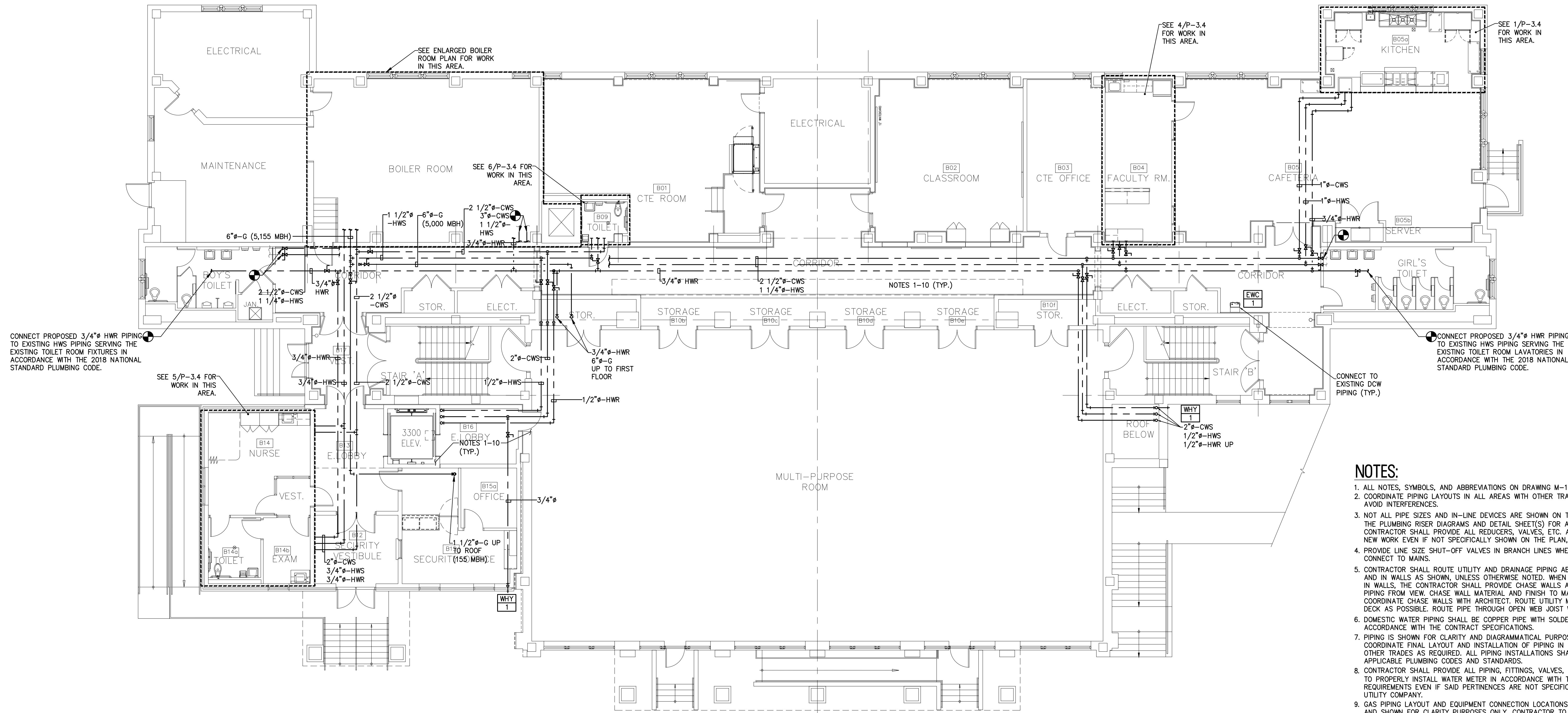
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B.Z.	CH	AS NOTED	AS NOTED
DATE:	SHEET NO.:		
10-19-2020	P-2.4		
PROJECT NO.:			
MP0330A049			



**REMINGTON & VERNICK ENGINEERS**  
 232 KINGS HIGHWAY EAST  
 HADDONFIELD, NJ 08033  
 (856) 795-9595, FAX (856) 795-1882  
 WEB SITE ADDRESS : WWW.RVE.COM  
 Certification of Authorization: 24 GA 28003300  
 -ENGINEERING EXCELLENCE-

DATE: \_\_\_\_\_  
**CHRISTOPHER A. SAPONARO**  
 NJ PROFESSIONAL ENGINEER LIC. NO. 40059

DATE: \_\_\_\_\_  
**BRIAN B. GREGG**  
 NJ PROFESSIONAL ENGINEER LIC. NO. 46577



- NOTES:**
1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
  2. COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES.
  3. NOT ALL PIPE SIZES AND IN-LINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY. SEE THE PLUMBING RISER DIAGRAMS AND DETAIL SHEET(S) FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, VALVES, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN, RISER, OR DETAIL DRAWINGS.
  4. PROVIDE LINE SIZE SHUT-OFF VALVES IN BRANCH LINES WHERE BRANCH LINES CONNECT TO MAINS.
  5. CONTRACTOR SHALL ROUTE UTILITY AND DRAINAGE PIPING ABOVE CEILINGS, BELOW FLOORS, AND IN WALLS AS SHOWN, UNLESS OTHERWISE NOTED. WHEN PIPING CAN NOT BE LOCATED IN WALLS, THE CONTRACTOR SHALL PROVIDE CHASE WALLS AS REQUIRED TO CONCEAL PIPING FROM VIEW. CHASE WALL MATERIAL AND FINISH TO MATCH THE SURROUNDING WALLS. COORDINATE CHASE WALLS WITH ARCHITECT. ROUTE UTILITY MAINS AS CLOSE TO THE ROOF DECK AS POSSIBLE. ROUTE PIPE THROUGH OPEN WEB JOIST WHERE POSSIBLE.
  6. DOMESTIC WATER PIPING SHALL BE COPPER PIPE WITH SOLDERED FITTINGS/JOINTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
  7. PIPING IS SHOWN FOR CLARITY AND DIAGRAMMATICAL PURPOSES. CONTRACTOR SHALL COORDINATE FINAL LAYOUT AND INSTALLATION OF PIPING IN FIELD AND COORDINATE WITH OTHER TRADES AS REQUIRED. ALL PIPING INSTALLATIONS SHALL BE IN ACCORDANCE WITH APPLICABLE PLUMBING CODES AND STANDARDS.
  8. CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, VALVES, AND PERTINENCES REQUIRED TO PROPERLY INSTALL WATER METER IN ACCORDANCE WITH THE UTILITY COMPANY'S REQUIREMENTS EVEN IF SAID PERTINENCES ARE NOT SPECIFICALLY PROVIDED BY THE UTILITY COMPANY.
  9. GAS PIPING LAYOUT AND EQUIPMENT CONNECTION LOCATIONS AS SHOWN ARE APPROXIMATE AND SHOWN FOR CLARITY PURPOSES ONLY. CONTRACTOR TO VERIFY ALL EQUIPMENT GAS CONNECTION LOCATIONS AND PROVIDE GAS CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES AND STANDARDS. GAS PIPING IN AREAS WITH EXPOSED CEILINGS SHALL BE INSTALLED AS HIGH AS POSSIBLE TO AVOID INTERFERENCE IN THE SPACE BELOW.
  10. FUEL GAS PIPING SHALL BE WELDED STEEL PIPE.

**1 PLUMBING UTILITY PIPING BASEMENT FLOOR PLAN**  
 SCALE: 1/8"=1'-0"

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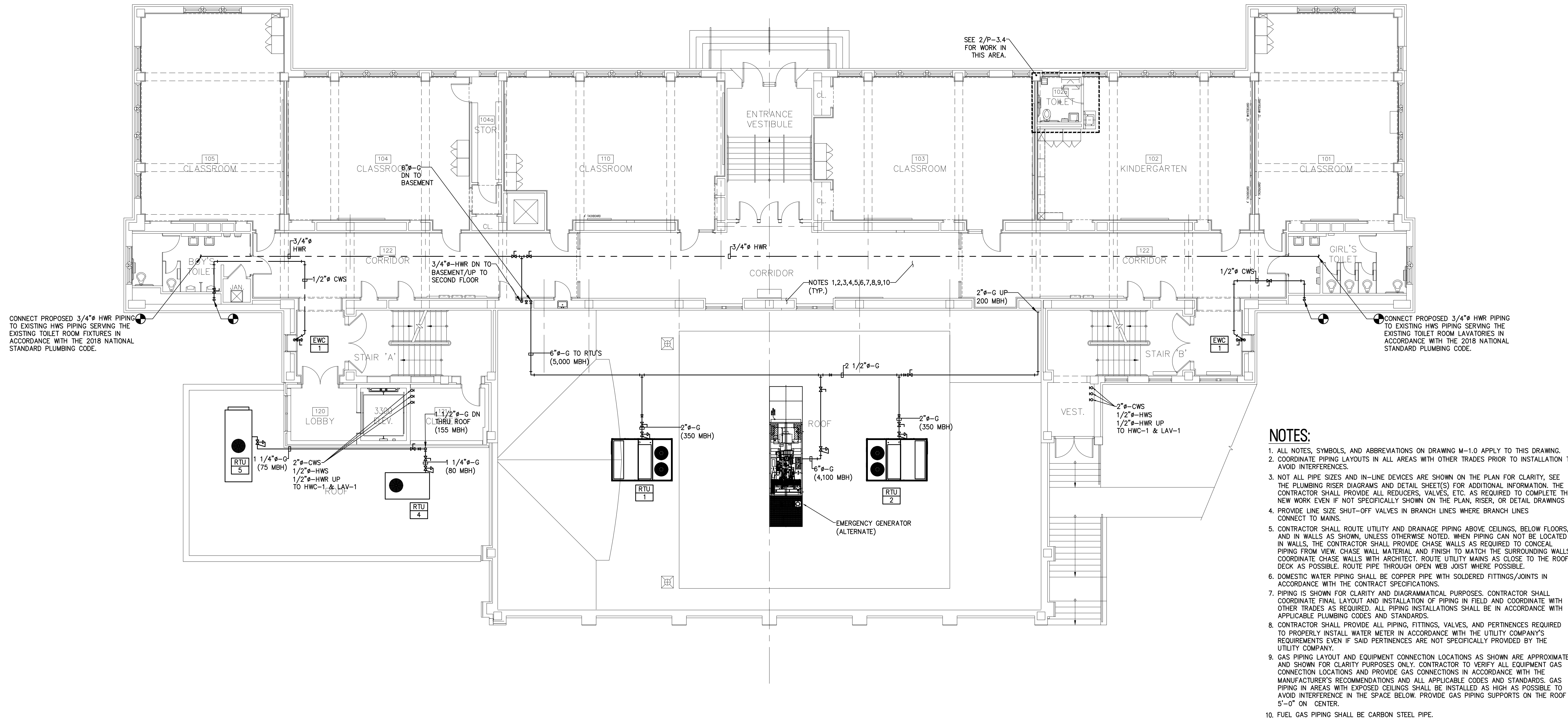
NO.	DATE	BY	CHK	REVISION

**PLUMBING UTILITY PIPING BASEMENT FLOOR PLAN**  
 PENNSAUKEN BOARD OF EDUCATION  
 ROOSEVELT STEM SCHOOL ADDITION AND RENOVATIONS  
 5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
 PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

DATE	SHEET NO.
10-19-2020	P-3.1
208, Inc.	MP03300408

ISSUED FOR BID: 11-13-2020





- NOTES:**
1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
  2. COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES.
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  4. PROVIDE LINE SIZE SHUT-OFF VALVES IN BRANCH LINES WHERE BRANCH LINES CONNECT TO MAINS.
  5. CONTRACTOR SHALL ROUTE UTILITY AND DRAINAGE PIPING ABOVE CEILINGS, BELOW FLOORS, AND IN WALLS AS SHOWN, UNLESS OTHERWISE NOTED. WHEN PIPING CAN NOT BE LOCATED IN WALLS, THE CONTRACTOR SHALL PROVIDE CHASE WALLS AS REQUIRED TO CONCEAL PIPING FROM VIEW. CHASE WALL MATERIAL AND FINISH TO MATCH THE SURROUNDING WALLS. COORDINATE CHASE WALLS WITH ARCHITECT. ROUTE UTILITY MAINS AS CLOSE TO THE ROOF DECK AS POSSIBLE. ROUTE PIPE THROUGH OPEN WEB JOIST WHERE POSSIBLE.
  6. DOMESTIC WATER PIPING SHALL BE COPPER PIPE WITH SOLDERED FITTINGS/JOINTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
  7. PIPING IS SHOWN FOR CLARITY AND DIAGRAMMATICAL PURPOSES. CONTRACTOR SHALL COORDINATE FINAL LAYOUT AND INSTALLATION OF PIPING IN FIELD AND COORDINATE WITH OTHER TRADES AS REQUIRED. ALL PIPING INSTALLATIONS SHALL BE IN ACCORDANCE WITH APPLICABLE PLUMBING CODES AND STANDARDS.
  8. CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, VALVES, AND PERTINENCES REQUIRED TO PROPERLY INSTALL WATER METER IN ACCORDANCE WITH THE UTILITY COMPANY'S REQUIREMENTS EVEN IF SAID PERTINENCES ARE NOT SPECIFICALLY PROVIDED BY THE UTILITY COMPANY.
  9. GAS PIPING LAYOUT AND EQUIPMENT CONNECTION LOCATIONS AS SHOWN ARE APPROXIMATE AND SHOWN FOR CLARITY PURPOSES ONLY. CONTRACTOR TO VERIFY ALL EQUIPMENT GAS CONNECTION LOCATIONS AND PROVIDE GAS CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES AND STANDARDS. GAS PIPING IN AREAS WITH EXPOSED CEILINGS SHALL BE INSTALLED AS HIGH AS POSSIBLE TO AVOID INTERFERENCE IN THE SPACE BELOW. PROVIDE GAS PIPING SUPPORTS ON THE ROOF 5'-0" ON CENTER.
  10. FUEL GAS PIPING SHALL BE CARBON STEEL PIPE.

**1 PLUMBING UTILITY PIPING FIRST FLOOR PLAN**  
SCALE: 1/8"=1'-0"

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

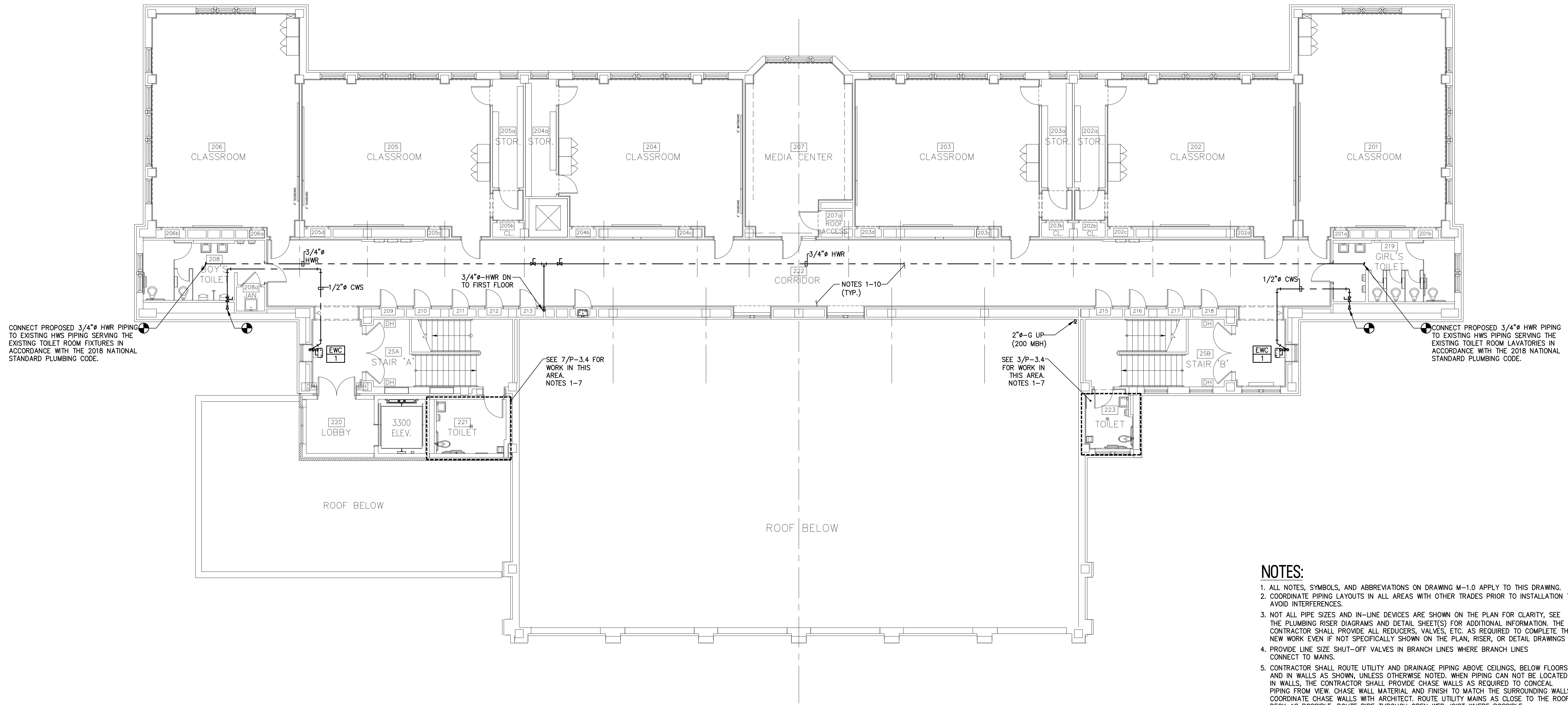
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NO.	REVISION	DATE	BY	CHK

**PLUMBING UTILITY PIPING FIRST FLOOR PLAN**  
PENNSAUKEN BOARD OF EDUCATION  
ROOSEVELT STEM SCHOOL ADDITION AND RENOVATIONS  
5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

DRAWN BY:	DESIGNED BY:	CHECKED BY:	SCALE:
B.Z.	C.H.		AS NOTED
DATE:	SHEET NO.:		
10-19-2020			
PROJECT NO.:			
MP0330049			

ISSUED FOR BID: 11-13-2020



CONNECT PROPOSED 3/4" HWR PIPING TO EXISTING HWS PIPING SERVING THE EXISTING TOILET ROOM FIXTURES IN ACCORDANCE WITH THE 2018 NATIONAL STANDARD PLUMBING CODE.

SEE 7/P-3.4 FOR WORK IN THIS AREA. NOTES 1-7

SEE 3/P-3.4 FOR WORK IN THIS AREA. NOTES 1-7

CONNECT PROPOSED 3/4" HWR PIPING TO EXISTING HWS PIPING SERVING THE EXISTING TOILET ROOM LAVATORIES IN ACCORDANCE WITH THE 2018 NATIONAL STANDARD PLUMBING CODE.

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.  
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- NOTES:**
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  - COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES.
  - NOT ALL PIPE SIZES AND IN-LINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY. SEE THE PLUMBING RISER DIAGRAMS AND DETAIL SHEET(S) FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, VALVES, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN, RISER, OR DETAIL DRAWINGS.
  - PROVIDE LINE SIZE SHUT-OFF VALVES IN BRANCH LINES WHERE BRANCH LINES CONNECT TO MAINS.
  - CONTRACTOR SHALL ROUTE UTILITY AND DRAINAGE PIPING ABOVE CEILINGS, BELOW FLOORS, AND IN WALLS AS SHOWN. UNLESS OTHERWISE NOTED, WHEN PIPING CAN NOT BE LOCATED IN WALLS, THE CONTRACTOR SHALL PROVIDE CHASE WALLS AS REQUIRED TO CONCEAL PIPING FROM VIEW. CHASE WALL MATERIAL AND FINISH TO MATCH THE SURROUNDING WALLS. COORDINATE CHASE WALLS WITH ARCHITECT. ROUTE UTILITY MAINS AS CLOSE TO THE ROOF DECK AS POSSIBLE. ROUTE PIPE THROUGH OPEN WEB JOIST WHERE POSSIBLE.
  - DOMESTIC WATER PIPING SHALL BE COPPER PIPE WITH SOLDERED FITTINGS/JOINTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
  - PIPING IS SHOWN FOR CLARITY AND DIAGRAMMATICAL PURPOSES. CONTRACTOR SHALL COORDINATE FINAL LAYOUT AND INSTALLATION OF PIPING IN FIELD AND COORDINATE WITH OTHER TRADES AS REQUIRED. ALL PIPING INSTALLATIONS SHALL BE IN ACCORDANCE WITH APPLICABLE PLUMBING CODES AND STANDARDS.
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  - GAS PIPING LAYOUT AND EQUIPMENT CONNECTION LOCATIONS AS SHOWN ARE APPROXIMATE AND SHOWN FOR CLARITY PURPOSES ONLY. CONTRACTOR TO CLARIFY ALL EQUIPMENT GAS CONNECTION LOCATIONS AND PROVIDE GAS CONNECTIONS IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES AND STANDARDS. GAS PIPING IN AREAS WITH EXPOSED CEILINGS SHALL BE INSTALLED AS HIGH AS POSSIBLE TO AVOID INTERFERENCE IN THE SPACE BELOW.
  - FUEL GAS PIPING SHALL BE CARBON STEEL PIPE.

**1 PLUMBING UTILITY PIPING SECOND FLOOR PLAN**  
SCALE: 1/8"=1'-0"

NO.	REVISION	DATE	BY	CHK

**PLUMBING UTILITY PIPING SECOND FLOOR PLAN**

PENNSAUKEN BOARD OF EDUCATION  
ROOSEVELT STEM SCHOOL ADDITION AND RENOVATIONS  
5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

DESIGNED BY: <b>B.Z.</b>	CHECKED BY: <b>CH</b>	SCALE: AS NOTED
DATE: 10-19-2020	SHEET NO.:	
PROJECT NO.:MPS2020049		<b>P-3.3</b>

ISSUED FOR BID: 11-13-2020

P:\Projects\Pennsauken\MPS2020049\Sheets\VP-3.3 Plumbing Utility Piping Second Floor Plan.dwg





1901  
**REMINGTON  
& VERNICK  
ENGINEERS**

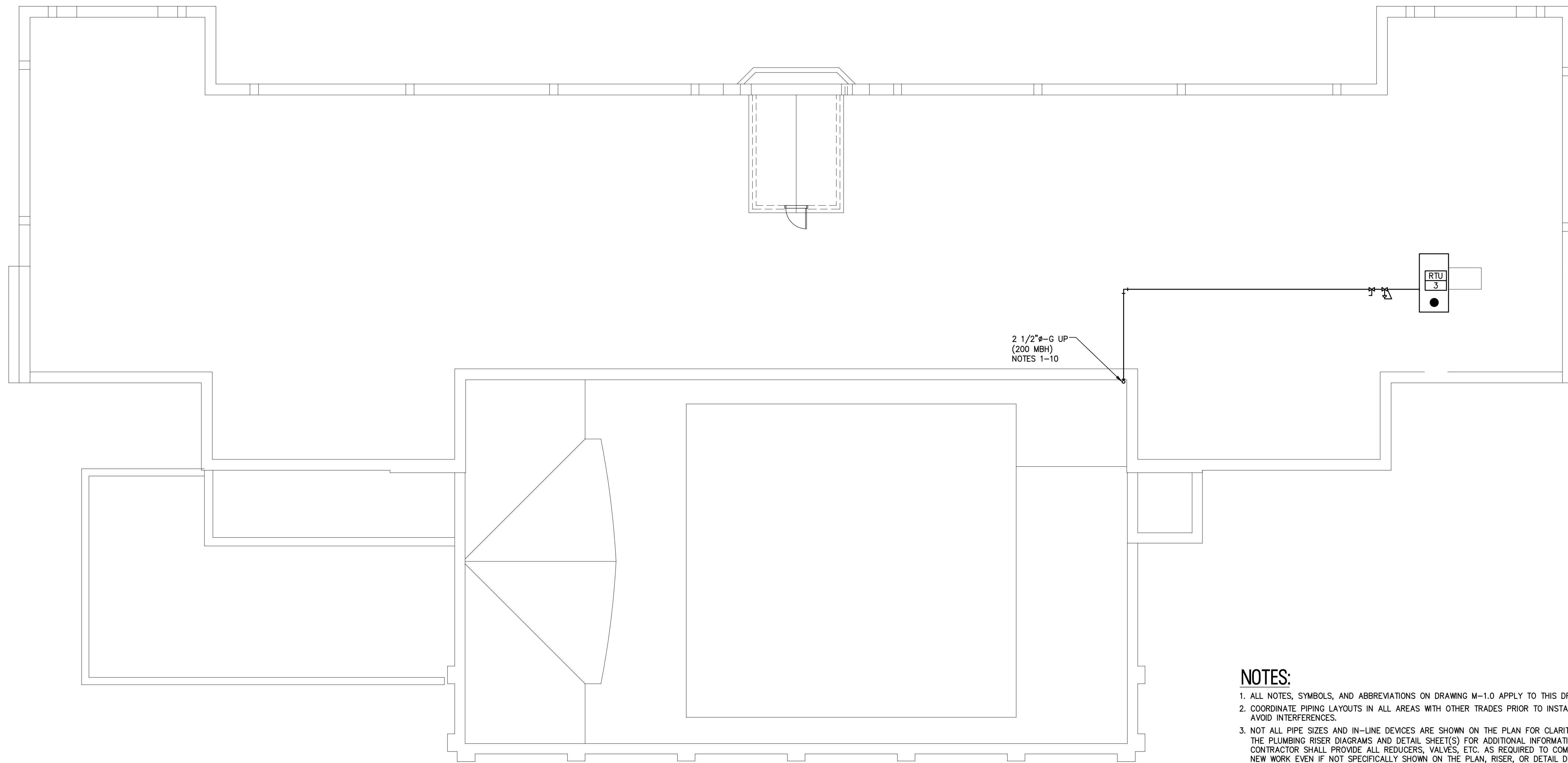
232 KINGS HIGHWAY EAST  
HADDONFIELD, NJ 08033  
(856) 795-9595, FAX (856) 795-1882  
WEB SITE ADDRESS : WWW.RVE.COM  
Certification of Authorization: 24 GA 28003300  
—ENGINEERING EXCELLENCE—

DATE:

**CHRISTOPHER A. SAPONARO**  
NJ PROFESSIONAL ENGINEER LIC. No. 40059

DATE:

**BRIAN B. GREGG**  
NJ PROFESSIONAL ENGINEER LIC. No. 46577



**NOTES:**

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10. FUEL GAS PIPING SHALL BE CARBON STEEL PIPE.

**1 PLUMBING UTILITY PIPING ROOF PLAN**  
SCALE: 1/8"=1'-0"

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NO.	REVISION	DATE	BY	CHK

**PLUMBING UTILITY PIPING  
ROOF PLAN**

PENNSAUKEN BOARD OF EDUCATION  
ROOSEVELT STEM SCHOOL, ADDITION AND RENOVATIONS  
5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

DESIGNED BY:	DESIGNED BY:	CHECKED BY:	SCALE:
B.Z.	C.H.		AS NOTED
DATE:	DATE:	SHEET NO.:	
10-19-2020		P-3.4	
PROJECT:			
MP033AK049			

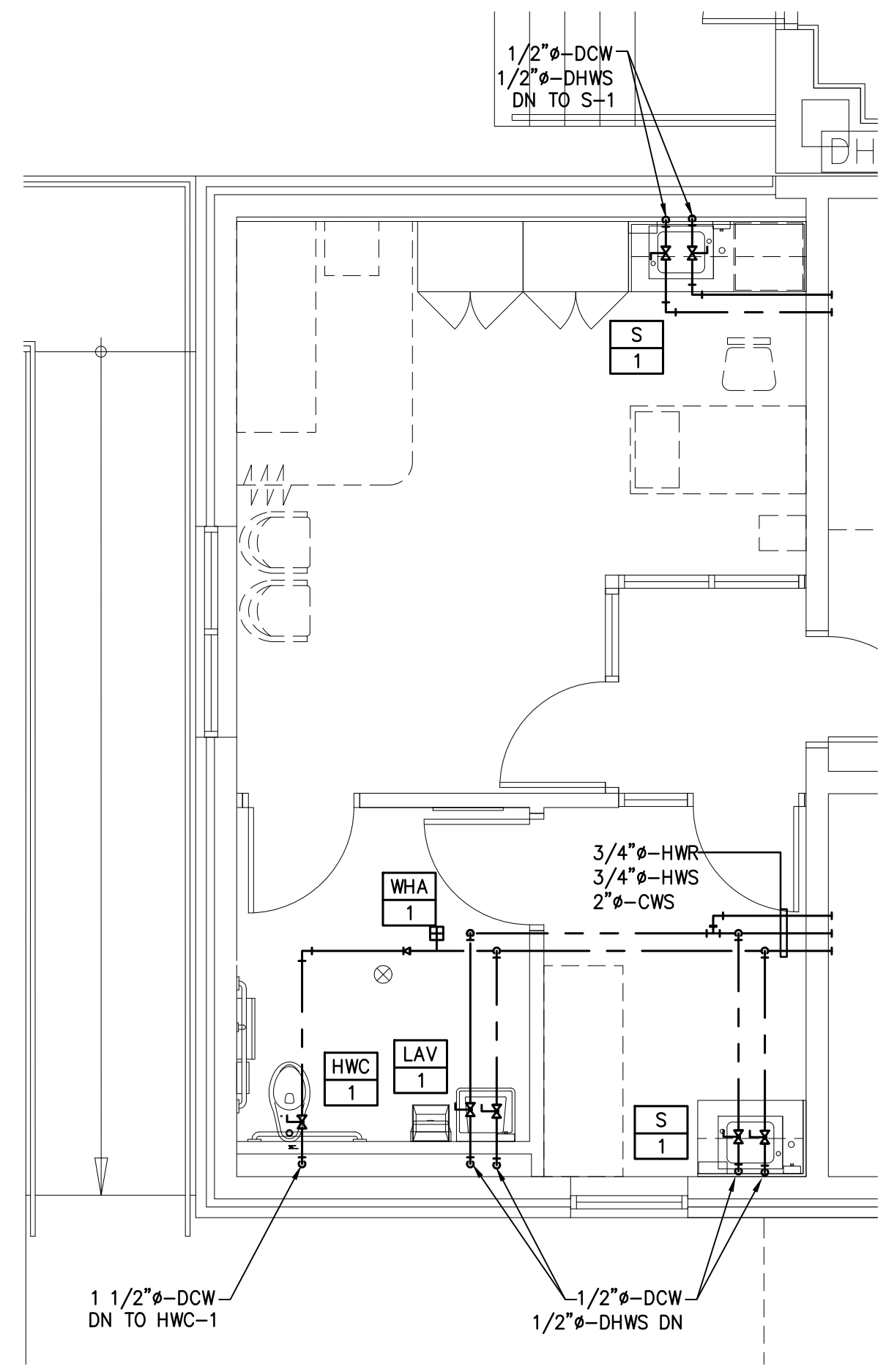
ISSUED FOR BID: 11-13-2020



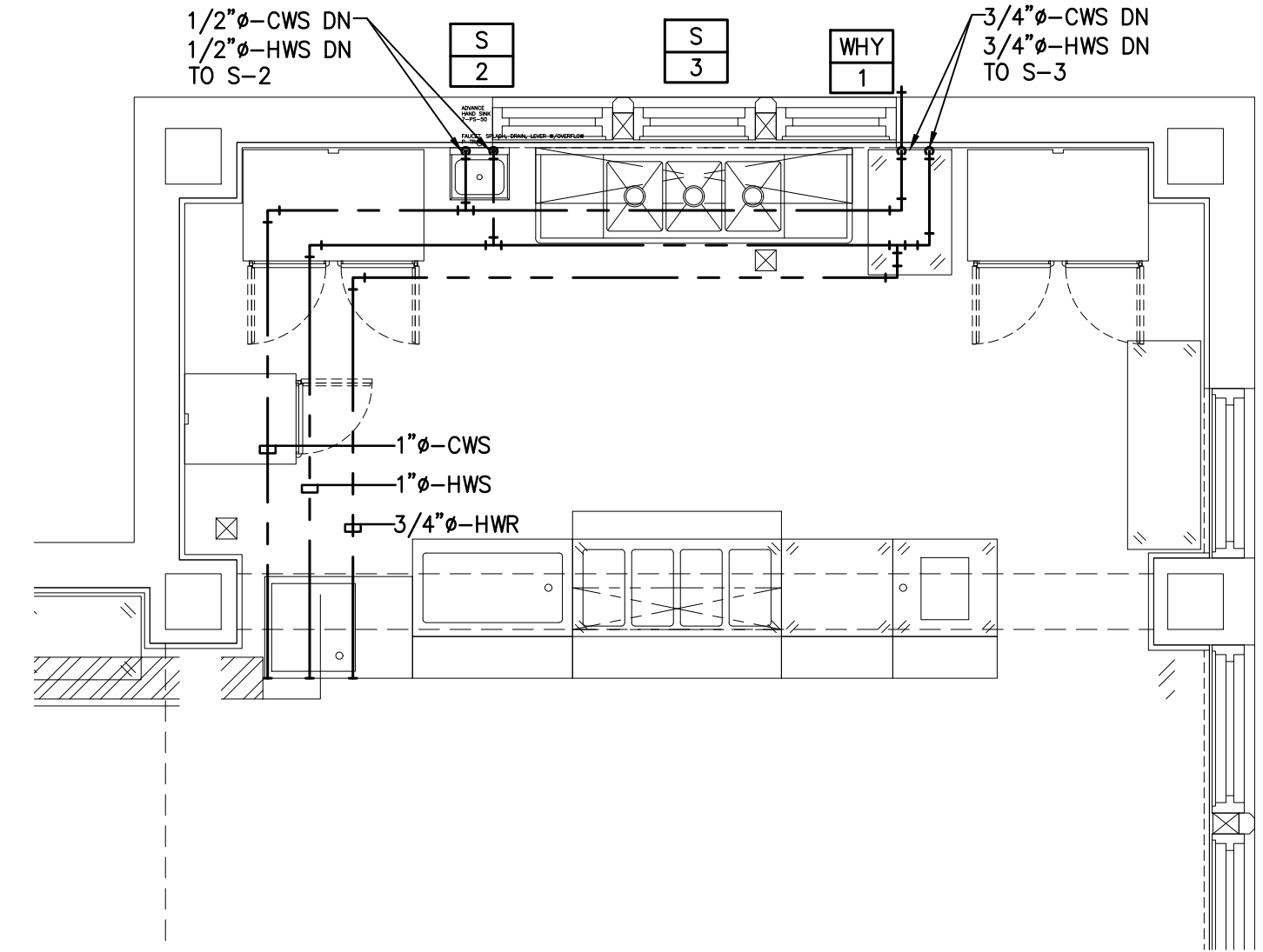
**REMINGTON & VERNICK ENGINEERS**  
 232 KINGS HIGHWAY EAST  
 HADDONFIELD, NJ 08033  
 (856) 795-9595, FAX (856) 795-1882  
 WEB SITE ADDRESS : WWW.RVE.COM  
 Certification of Authorization: 24 GA 28003300  
 -ENGINEERING EXCELLENCE-

DATE:  
**CHRISTOPHER A. SAPONARO**  
 NJ PROFESSIONAL ENGINEER LIC. No. 40059

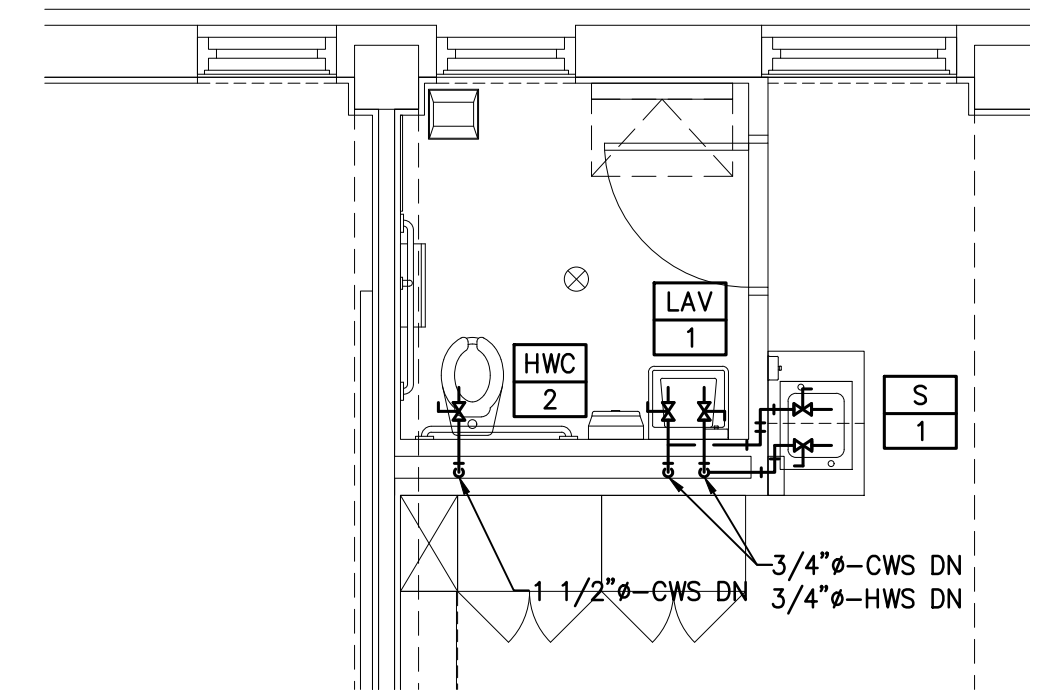
DATE:  
**BRIAN B. GREGG**  
 NJ PROFESSIONAL ENGINEER LIC. No. 46577



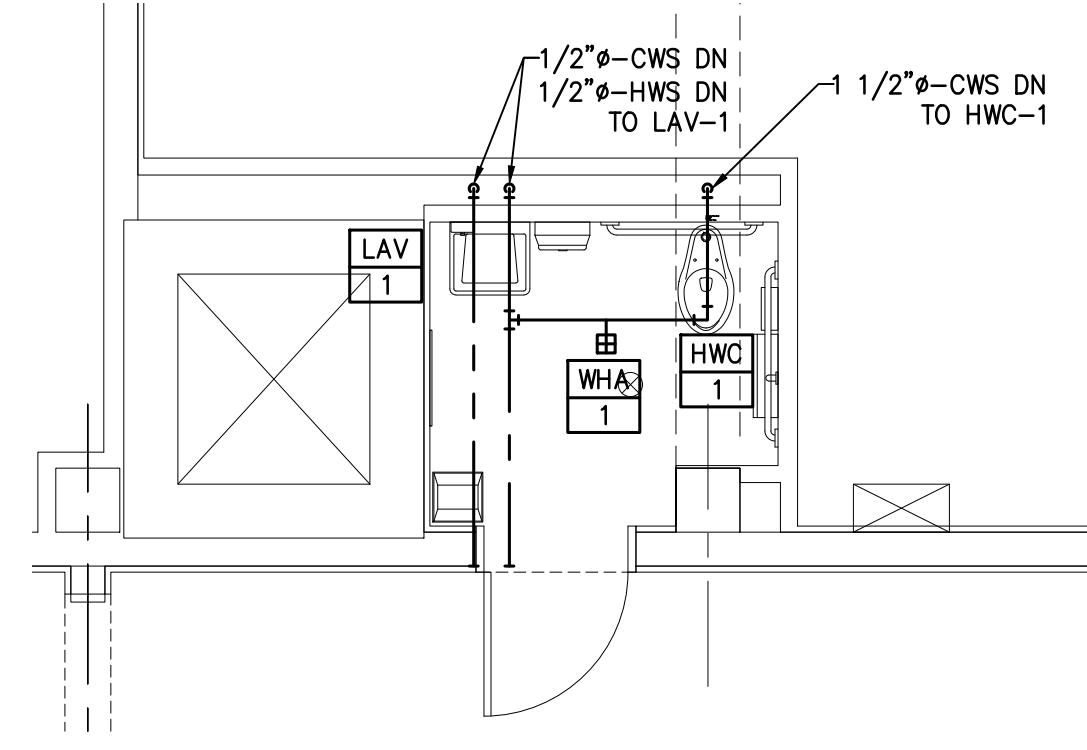
**5 PLUMBING UTILITY PIPING TOILET ROOM B 14A**  
 SCALE: 1/4"=1'-0"



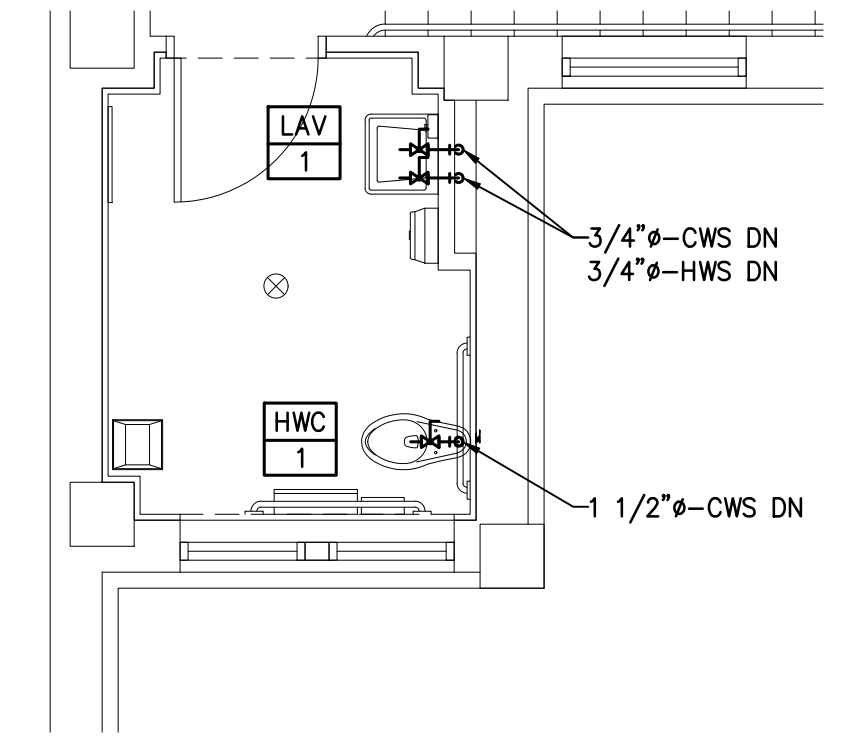
**1 PLUMBING UTILITY PIPING KITCHEN B05A**  
 SCALE: 1/4"=1'-0"



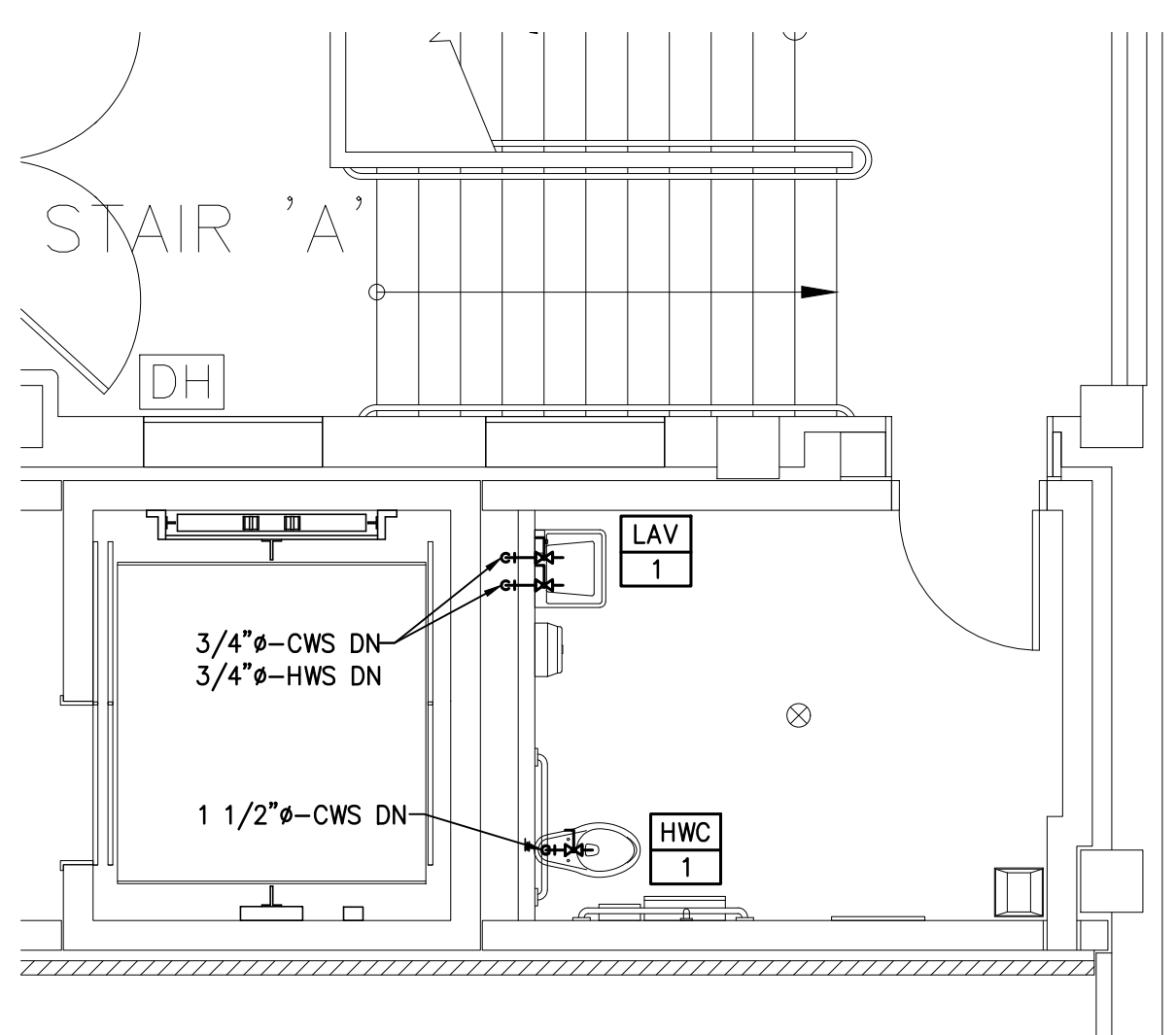
**2 PLUMBING UTILITY PIPING TOILET ROOM 102A**  
 SCALE: 1/4"=1'-0"



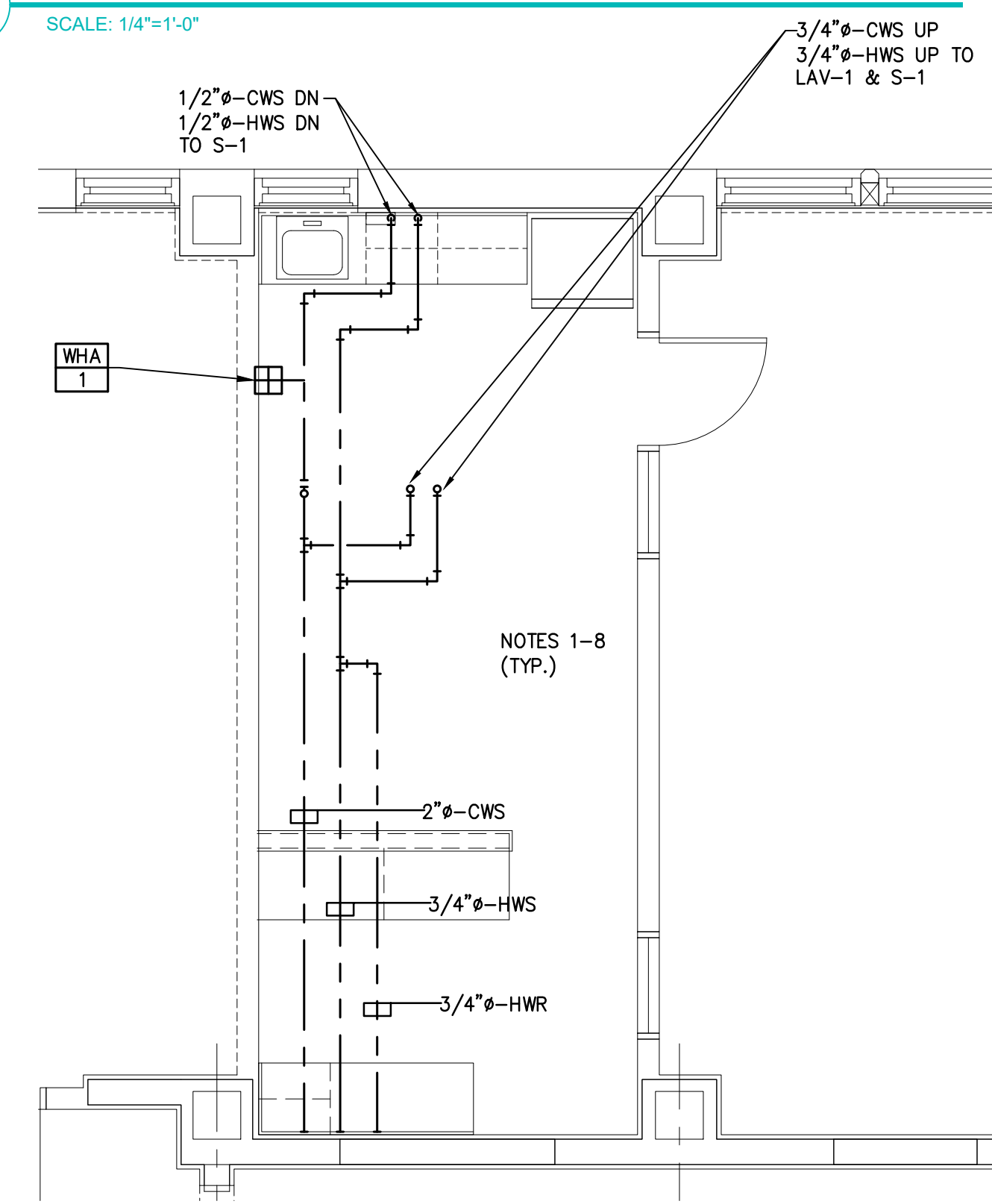
**6 PLUMBING UTILITY PIPING TOILET ROOM B09**  
 SCALE: 1/4"=1'-0"



**3 PLUMBING UTILITY PIPING TOILET ROOM 223**  
 SCALE: 1/4"=1'-0"



**7 PLUMBING UTILITY PIPING TOILET ROOM 221**  
 SCALE: 1/4"=1'-0"



**4 PLUMBING UTILITY PIPING FACULTY ROOM B04**  
 SCALE: 1/4"=1'-0"

**NOTES: (DOMESTIC WATER PIPING)**

1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
2. COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES.
3. NOT ALL PIPE SIZES AND IN-LINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY. SEE THE PLUMBING RISER DIAGRAMS AND DETAIL SHEET(S) FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, VALVES, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN, RISER, OR DETAIL DRAWINGS.
4. PROVIDE LINE SIZE SHUT-OFF VALVES IN BRANCH LINES WHERE BRANCH LINES CONNECT TO MAINS.
5. CONTRACTOR SHALL ROUTE UTILITY AND DRAINAGE PIPING ABOVE CEILINGS, BELOW FLOORS, AND IN WALLS AS SHOWN, UNLESS OTHERWISE NOTED. WHEN PIPING CAN NOT BE LOCATED IN WALLS, THE CONTRACTOR SHALL PROVIDE CHASE WALLS AS REQUIRED TO CONCEAL PIPING FROM VIEW. CHASE WALL MATERIAL AND FINISH TO MATCH THE SURROUNDING WALLS. COORDINATE CHASE WALLS WITH ARCHITECT. ROUTE UTILITY MAINS AS CLOSE TO THE ROOF DECK AS POSSIBLE. ROUTE PIPE THROUGH OPEN WEB JOIST WHERE POSSIBLE.
6. DOMESTIC WATER PIPING SHALL BE COPPER PIPE WITH SOLDERED FITTINGS/JOINTS IN ACCORDANCE WITH THE CONTRACT SPECIFICATIONS.
7. PIPING IS SHOWN FOR CLARITY AND DIAGRAMMATICAL PURPOSES. CONTRACTOR SHALL COORDINATE FINAL LAYOUT AND INSTALLATION OF PIPING IN FIELD AND COORDINATE WITH OTHER TRADES AS REQUIRED. ALL PIPING INSTALLATIONS SHALL BE IN ACCORDANCE WITH APPLICABLE PLUMBING CODES AND STANDARDS.
8. CONTRACTOR SHALL PROVIDE ALL PIPING, FITTINGS, VALVES, AND PERTINENCES REQUIRED TO PROPERLY INSTALL WATER METER IN ACCORDANCE WITH THE UTILITY COMPANY'S REQUIREMENTS EVEN IF SAID PERTINENCES ARE NOT SPECIFICALLY PROVIDED BY THE UTILITY COMPANY.

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.  
 ALL DOCUMENTS PREPARED BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES ARE INSTRUMENTS OF SERVICE IN RESPECT OF THE PROJECT. THEY ARE NOT INTENDED OR REPRESENTED TO BE SUITABLE FOR REUSE ON OR IN ANY OTHER PROJECT. ANY REUSE WITHOUT WRITTEN VERIFICATION OR ADAPTATION BY REMINGTON & VERNICK ENGINEERS AND AFFILIATES FOR THE REUSE AND ANY REUSE WILL BE AT OWNERS SOLE RISK AND WITHOUT LIABILITY OR LEGAL EXPOSURE TO REMINGTON & VERNICK ENGINEERS AND AFFILIATES. OWNER SHALL INDEMNIFY AND HOLD HARMLESS REMINGTON & VERNICK ENGINEERS AND AFFILIATES FROM ALL CLAIMS, DAMAGES, LOSSES AND EXPENSES ARISING OUT OF OR RESULTING THEREFROM.

NO.	DATE	BY	CHK	REVISION

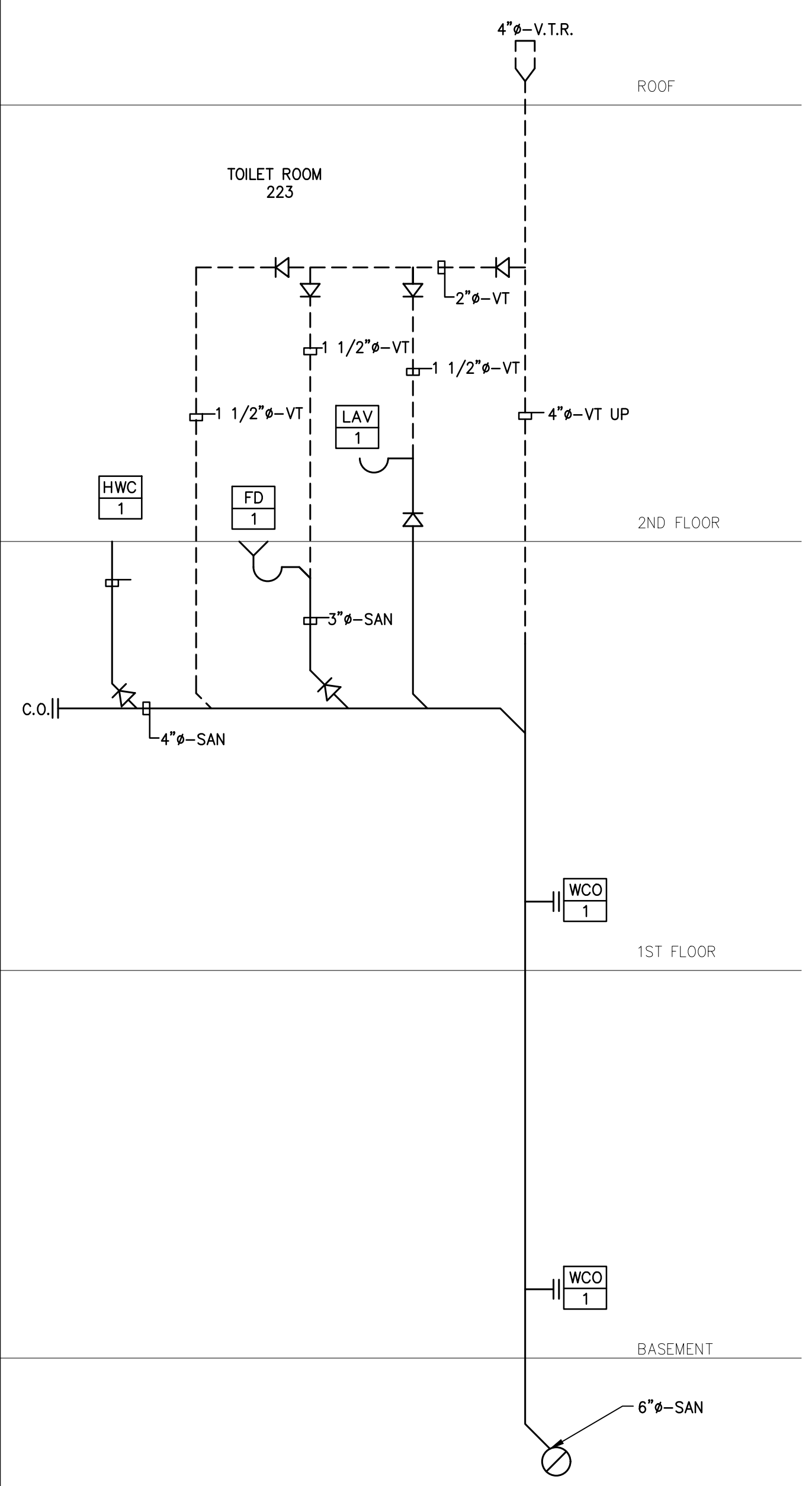
**PLUMBING ENLARGED UTILITY PIPING FLOOR PLANS**  
 PENNSAUKEN BOARD OF EDUCATION  
 ROOSEVELT STEM SCHOOL, ADDITION AND RENOVATIONS  
 5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
 PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

DRAWN BY:	DESIGNED BY:	CHECKED BY:	SCALE:
B.Z.	C.H.		AS NOTED
DATE:	SHEET NO.:		
10-19-2020	208		P-3.5
PROJECT NO.:			
MP03300409			

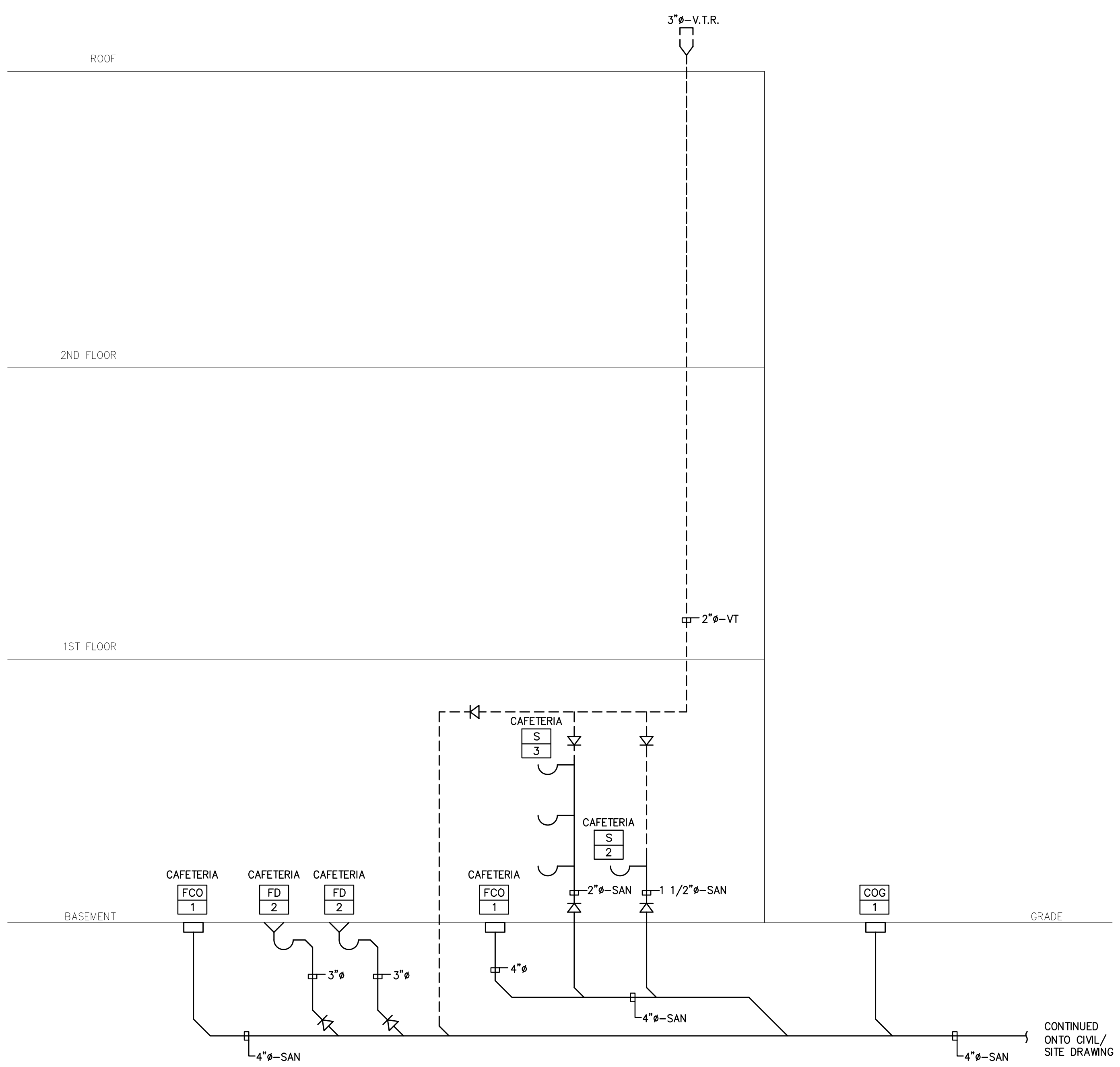
ISSUED FOR BID: 11-13-2020



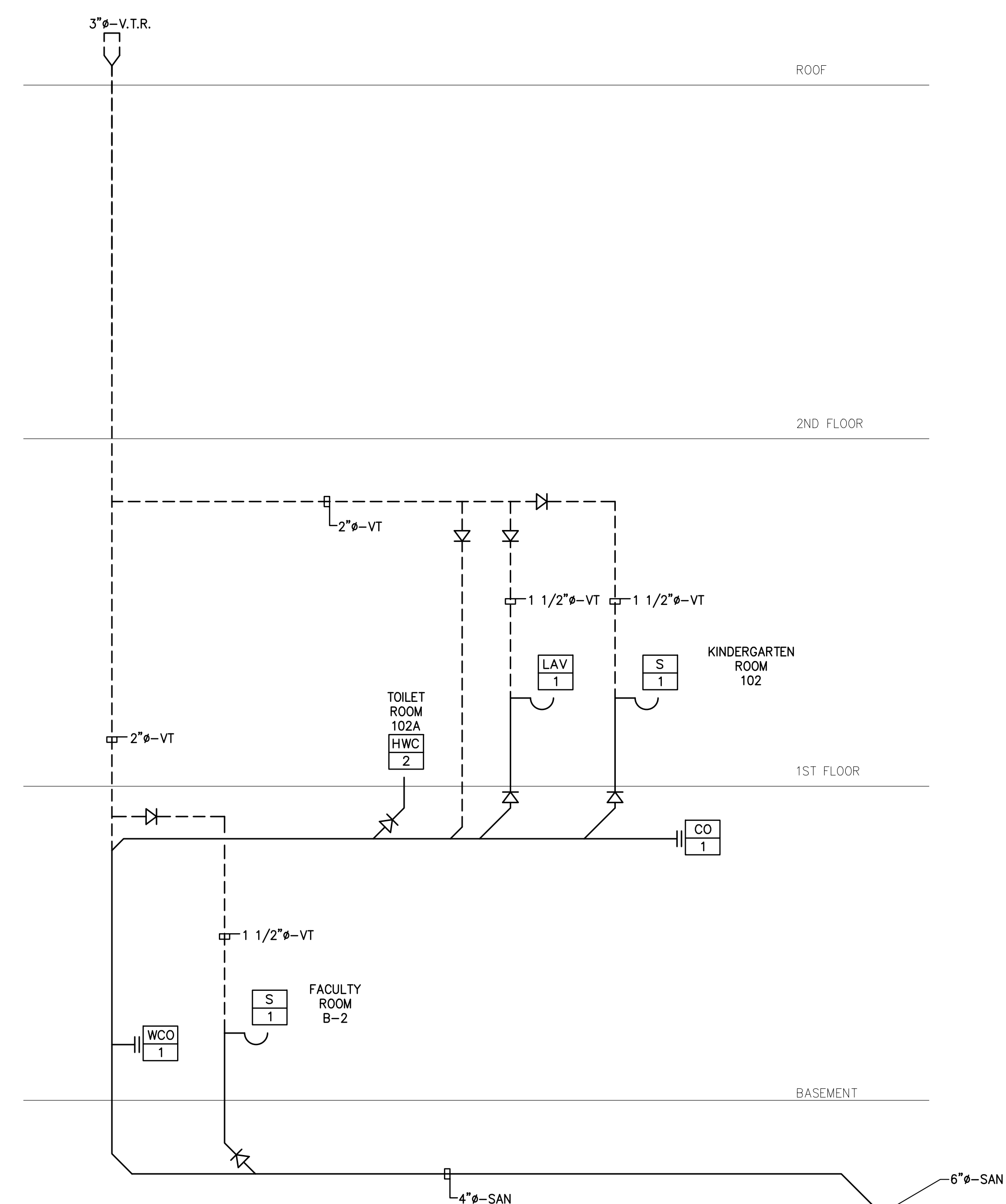




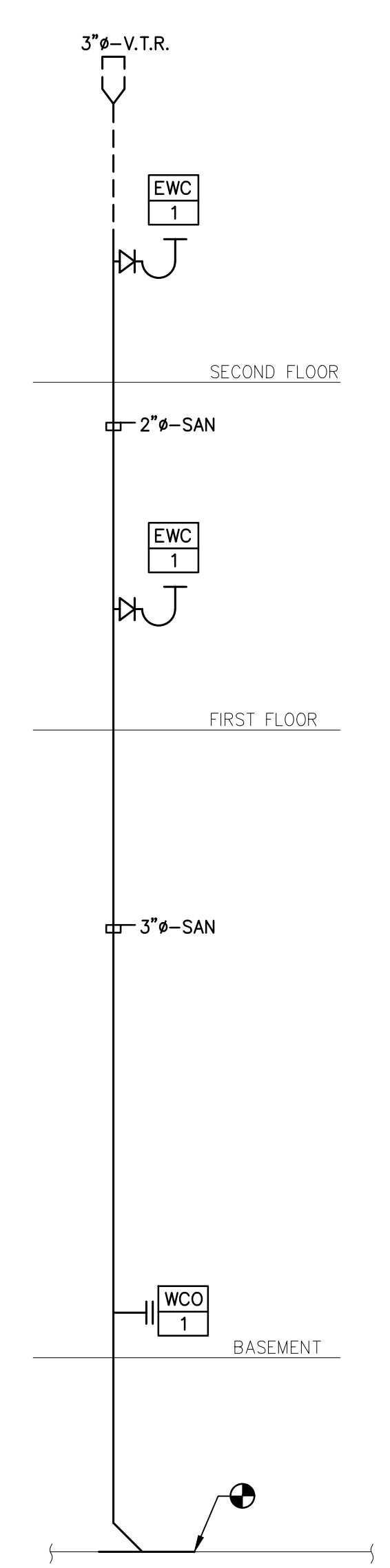
**5** PLUMBING SANITARY PIPING RISER DIAGRAM  
TOILET ROOM 223 & 221  
SCALE: N.T.S.



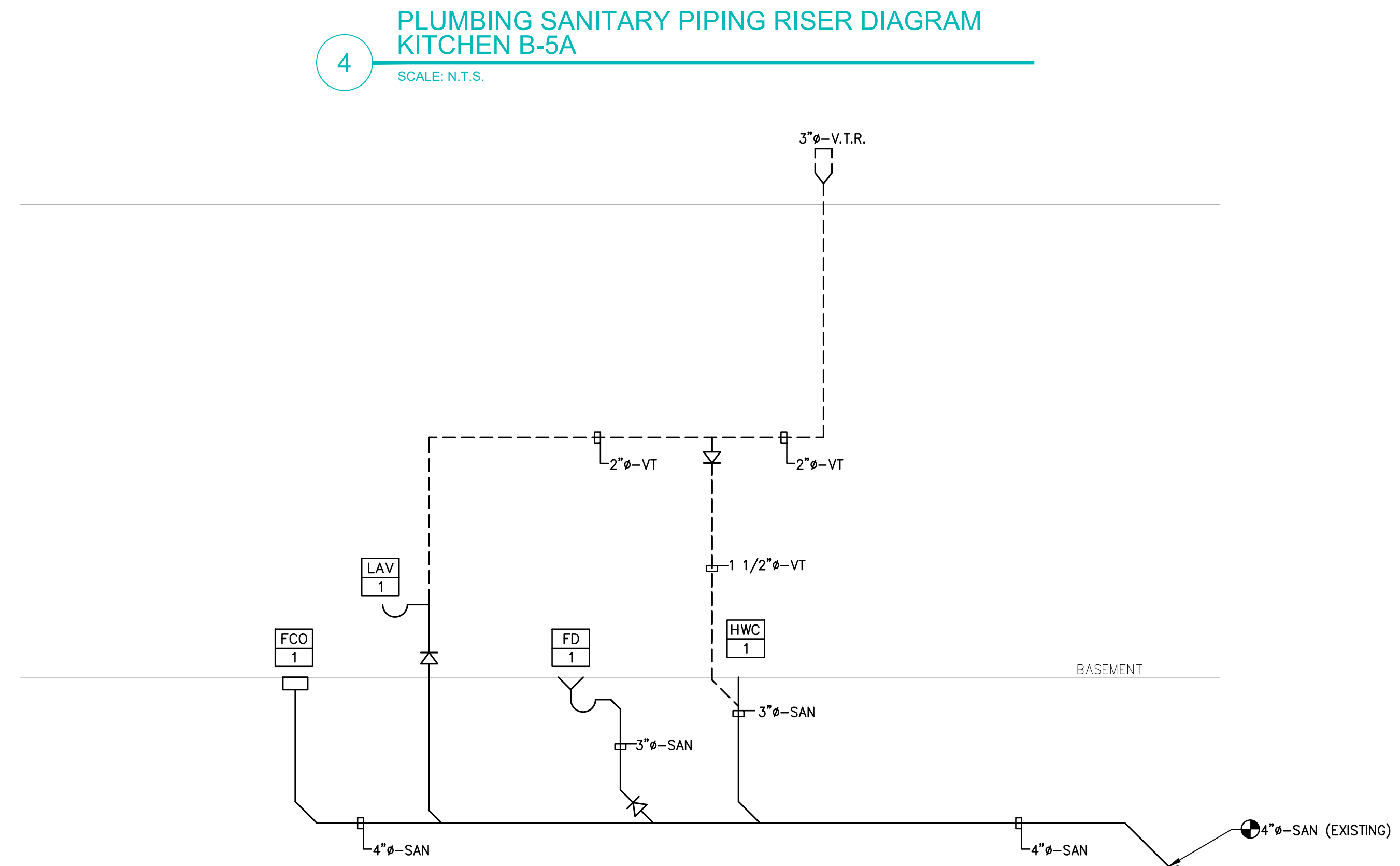
**4** PLUMBING SANITARY PIPING RISER DIAGRAM  
KITCHEN B-5A  
SCALE: N.T.S.



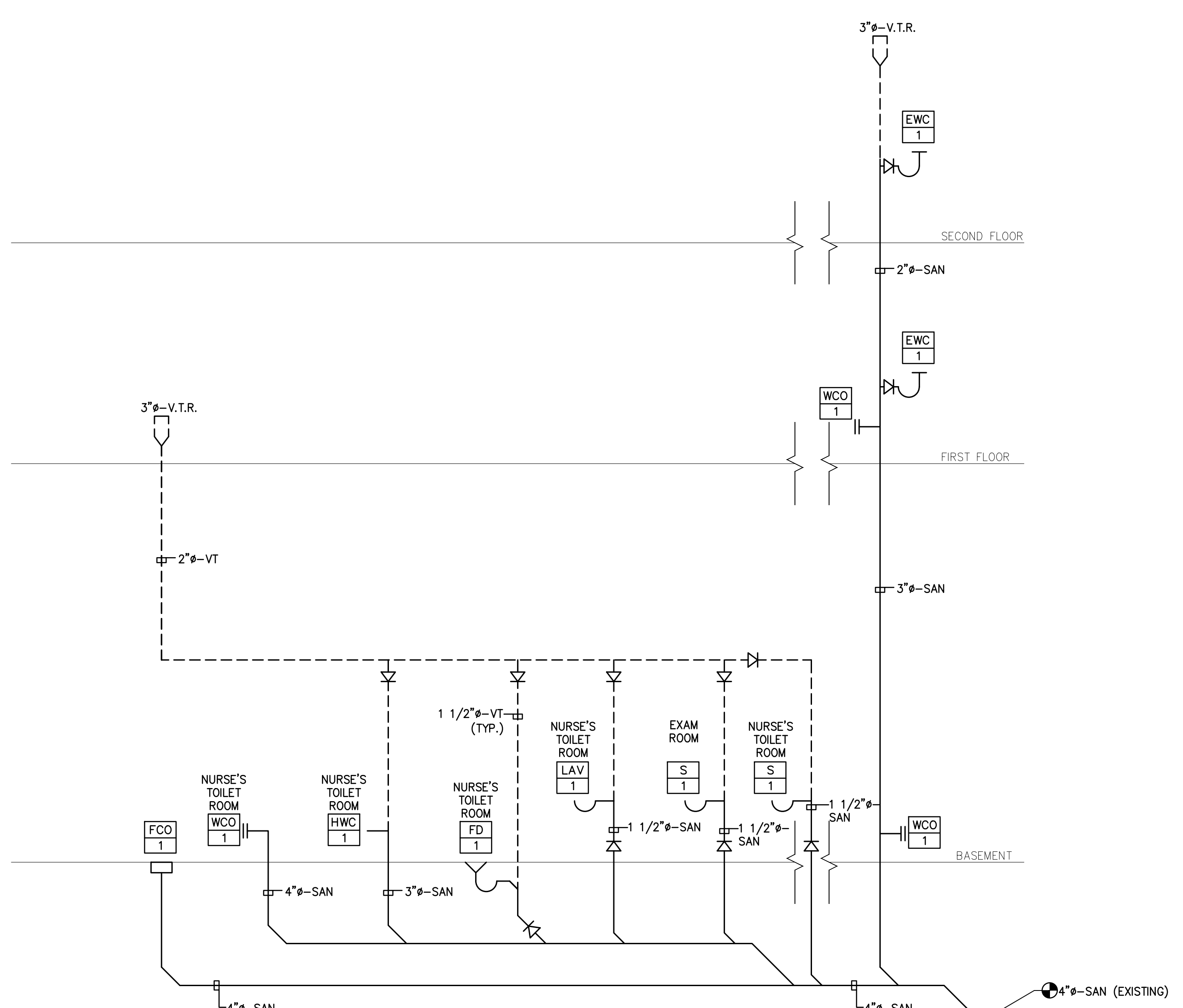
**3** PLUMBING SANITARY PIPING RISER DIAGRAM  
TOILET ROOM 102A, FACULTY ROOM B-2  
SCALE: N.T.S.



**2** PLUMBING SANITARY PIPING RISER DIAGRAM  
TOILET ROOM B09  
SCALE: N.T.S.



**4** PLUMBING SANITARY PIPING RISER DIAGRAM  
KITCHEN B-5A  
SCALE: N.T.S.



**1** PLUMBING SANITARY PIPING RISER DIAGRAM  
NURSE'S TOILET ROOM  
SCALE: N.T.S.

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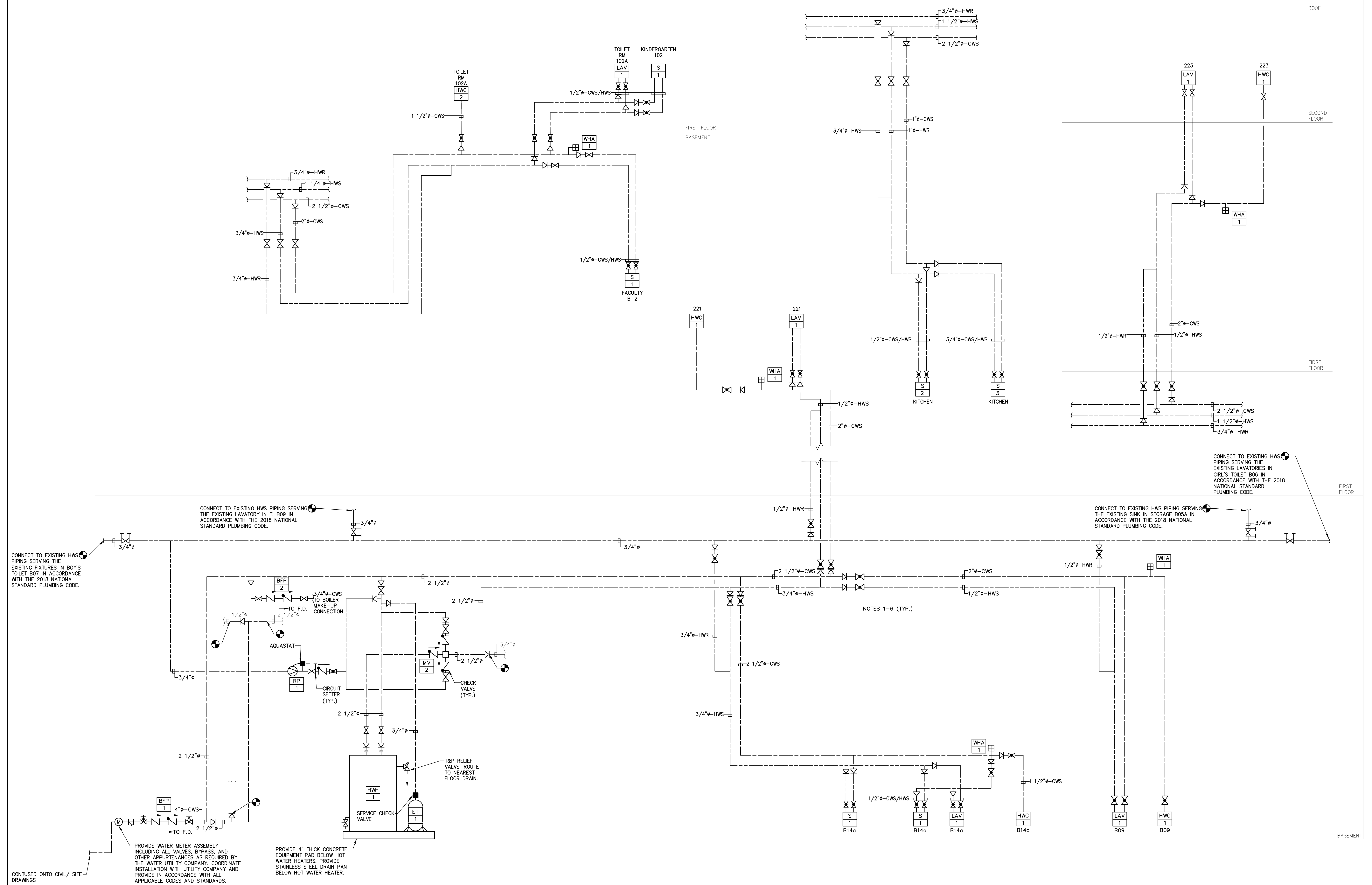
NO.	DATE	BY	CHK	REVISION

**PLUMBING SANITARY PIPING RISER DIAGRAM**  
PENNSAUKEN BOARD OF EDUCATION  
ROOSEVELT STEM SCHOOL, ADDITION AND RENOVATIONS  
5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

DATE	SHEET NO.
10-19-2020	P-4.1

ISSUED FOR BID: 11-13-2020





- NOTES:**
1. ALL NOTES, SYMBOLS, AND ABBREVIATIONS ON DRAWING M-1.0 APPLY TO THIS DRAWING.
  2. NOT ALL PIPE SIZES AND IN-LINE DEVICES ARE SHOWN ON THE PLAN FOR CLARITY, SEE THE PLUMBING RISER DIAGRAMS AND DETAIL SHEETS(S) FOR ADDITIONAL INFORMATION. THE CONTRACTOR SHALL PROVIDE ALL REDUCERS, VALVES, ETC. AS REQUIRED TO COMPLETE THE NEW WORK EVEN IF NOT SPECIFICALLY SHOWN ON THE PLAN, RISER, OR DETAIL DRAWINGS.
  3. REFER TO EQUIPMENT SCHEDULES AND ARCHITECTURAL DRAWINGS FOR EQUIPMENT CONNECTION SIZES.
  4. DOMESTIC WATER PIPING SHALL BE SOLDERED TYPE L COPPER TUBE. SEE CONTRACT SPECIFICATIONS FOR ADDITIONAL REQUIREMENTS.
  5. COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES.
  6. PROVIDE LINE SIZE SHUT-OFF VALVES IN BRANCH LINES WHERE BRANCH LINES CONNECT TO MAINS.

**1 PLUMBING UTILITY PIPING RISER DIAGRAM**  
SCALE: N.T.S.

CONTINUED ONTO CIVIL/ SITE DRAWINGS

PROVIDE WATER METER ASSEMBLY INCLUDING ALL VALVES, BYPASS, AND OTHER APPURTENANCES AS REQUIRED BY THE WATER UTILITY COMPANY. COORDINATE INSTALLATION WITH UTILITY COMPANY AND PROVIDE IN ACCORDANCE WITH ALL APPLICABLE CODES AND STANDARDS.

PROVIDE 4" THICK CONCRETE EQUIPMENT PAD BELOW HOT WATER HEATERS. PROVIDE STAINLESS STEEL DRAIN PAN BELOW HOT WATER HEATER.

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.

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NO.	REVISION	DATE	BY	CHK

**PLUMBING UTILITY PIPING RISER DIAGRAM**

PENNSAUKEN BOARD OF EDUCATION  
ROOSEVELT STEM SCHOOL, ADDITION AND RENOVATIONS  
5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

DATE	SHEET NO.
10-19-2020	P-4.2
208, Inc.	MP03300409

**ISSUED FOR BID: 11-13-2020**

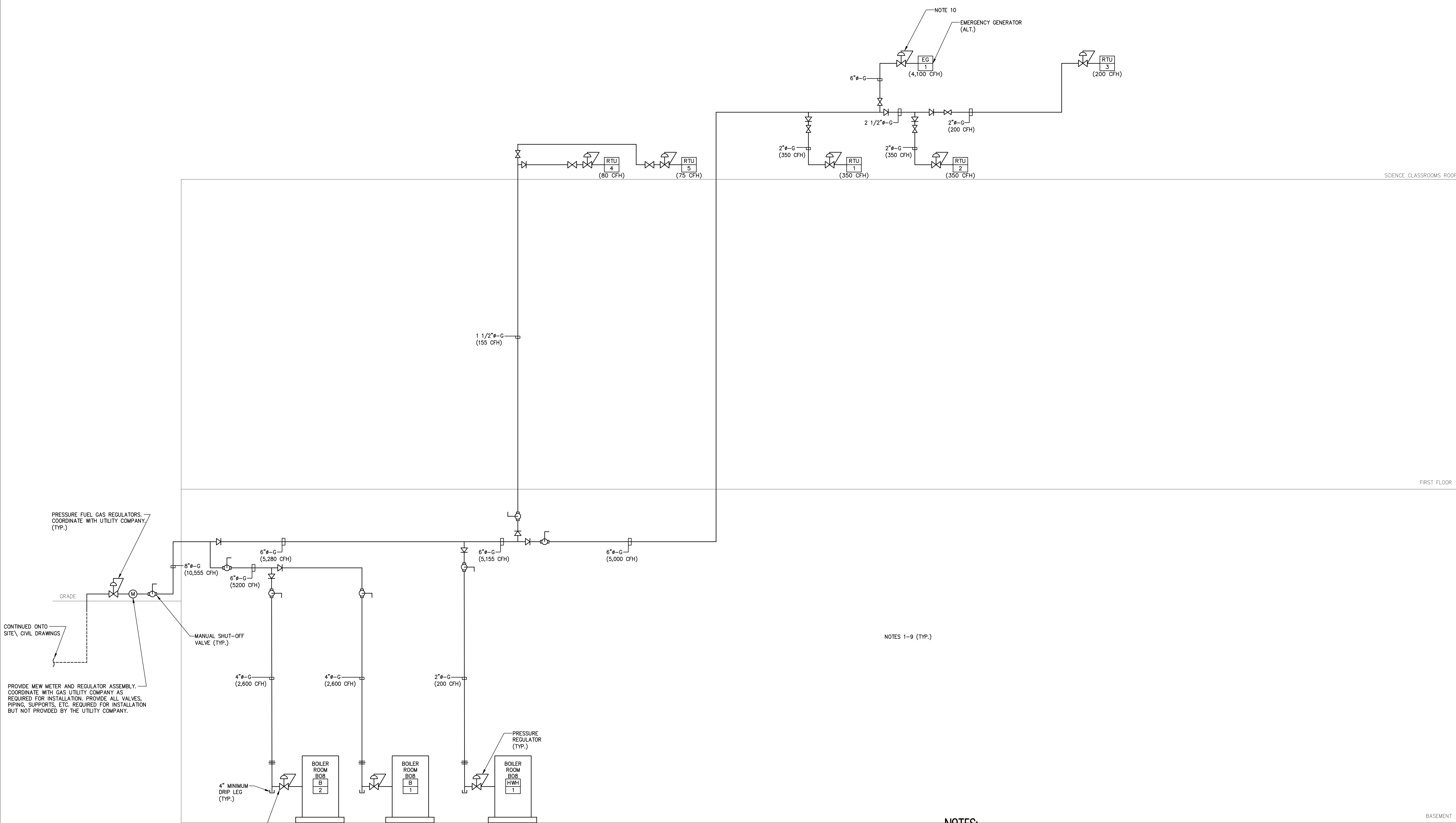


# REMINGTON & VERNICK ENGINEERS

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HADDONFIELD, NJ 08033  
(856) 795-9595, FAX (856) 795-1882  
WEB SITE ADDRESS : WWW.RVE.COM  
Certification of Authorization: 24 GA 28003300  
—ENGINEERING EXCELLENCE—

DATE:  
**CHRISTOPHER A. SAPONARO**  
NJ PROFESSIONAL ENGINEER LIC. No. 40059

DATE:  
**BRIAN B. GREGG**  
NJ PROFESSIONAL ENGINEER LIC. No. 46577



PRESSURE FUEL GAS REGULATORS. COORDINATE WITH UTILITY COMPANY. (TYP.)

CONTINUED ONTO SITE CIVIL DRAWINGS

MANUAL SHUT-OFF VALVE (TYP.)

4" MINIMUM DRIP LEG (TYP.)

PROVIDE VENT TO OUTDOORS FOR PRESSURE REGULATOR. SIZE VENT PIPING IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES AND STANDARDS. (TYP.)

NOTES 1-9 (TYP.)

## 1 PLUMBING FUEL GAS PIPING RISER DIAGRAM

SCALE: N.T.S.

### NOTES:

1. LENGTH OF FURTHEST FIXTURE = 325'
2. NATURAL GAS PIPING DOWNSTREAM OF METER SIZED FOR AN INLET PRESSURE OF 2 PSI OR LESS WITH A 0.5" W.C. PRESSURE DROP IN ACCORDANCE WITH IFGC 2018.
3. PROVIDE PRESSURE REGULATING VALVE TO REDUCE FUEL GAS PRESSURE IN ACCORDANCE WITH THE EQUIPMENT MANUFACTURER'S RECOMMENDATIONS.
4. PROVIDE ALL GAS PIPING SUPPORTS AND ACCESSORIES REQUIRED FOR INSTALLATION AND OPERATION BUT NOT PROVIDED BY PSE&G.
5. ALL GAS PRESSURE REGULATORS SHALL BE RATED AT THE MAXIMUM EMERGENCY PRESSURE OF 5 PSI.
6. PROVIDE SERVICE CLASS FUEL GAS PRESSURE REGULATOR.
7. REFER TO EQUIPMENT SCHEDULES AND ARCHITECTURAL DRAWINGS FOR EQUIPMENT CONNECTION SIZES.
8. COORDINATE PIPING LAYOUTS IN ALL AREAS WITH OTHER TRADES PRIOR TO INSTALLATION TO AVOID INTERFERENCES.
9. FUEL GAS PIPING SHALL BE STEEL PIPE. SEE THE FUEL GAS PIPING SPECIFICATION FOR ADDITIONAL INFORMATION.
10. PROVIDE GENERATOR WITH A "B-SERIES" SERVICE CLASS REGULATOR AS MANUFACTURED BY ITRON OR APPROVED EQUAL. THE REGULATOR SHALL BE DESIGNED FOR COMMERCIAL/ INDUSTRIAL APPLICATIONS AND SHALL BE PROVIDED WITH AN INTERCHANGEABLE ORIFICE, INTERNAL RELIEF VALVE, AND A MINIMUM OPERATING INLET PRESSURE GREATER THAN 5 PSI. PROVIDE EXTERNAL RELIEF VALVE AND OVERPRESSURE PROTECTION DEVICE (OPD) WHEN REQUIRED BY THE LOCAL UTILITY COMPANY. THE REGULATOR SHALL BE PROVIDED WITH SPRING AND ORIFICE SIZES THAT ARE RECOMMENDED BY THE MANUFACTURER TO PROVIDE THE REQUIRED FLOW AND PRESSURE AT THE AVAILABLE GAS SERVICE INLET PRESSURE. PROVIDE GENERATOR WITH A DEDICATED SHUT-OFF VALVE AT THE GAS METER. PROVIDE PERMANENT LABELS TO IDENTIFY BUILDING SHUT-OFF VALVE AND GENERATOR SHUTOFF VALVE IN ACCORDANCE WITH NFPA-110.

PLANS WHICH DO NOT BEAR AN EMBOSSED SEAL ARE NOT VALID.  
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NO.	REVISION	DATE	BY	CHK

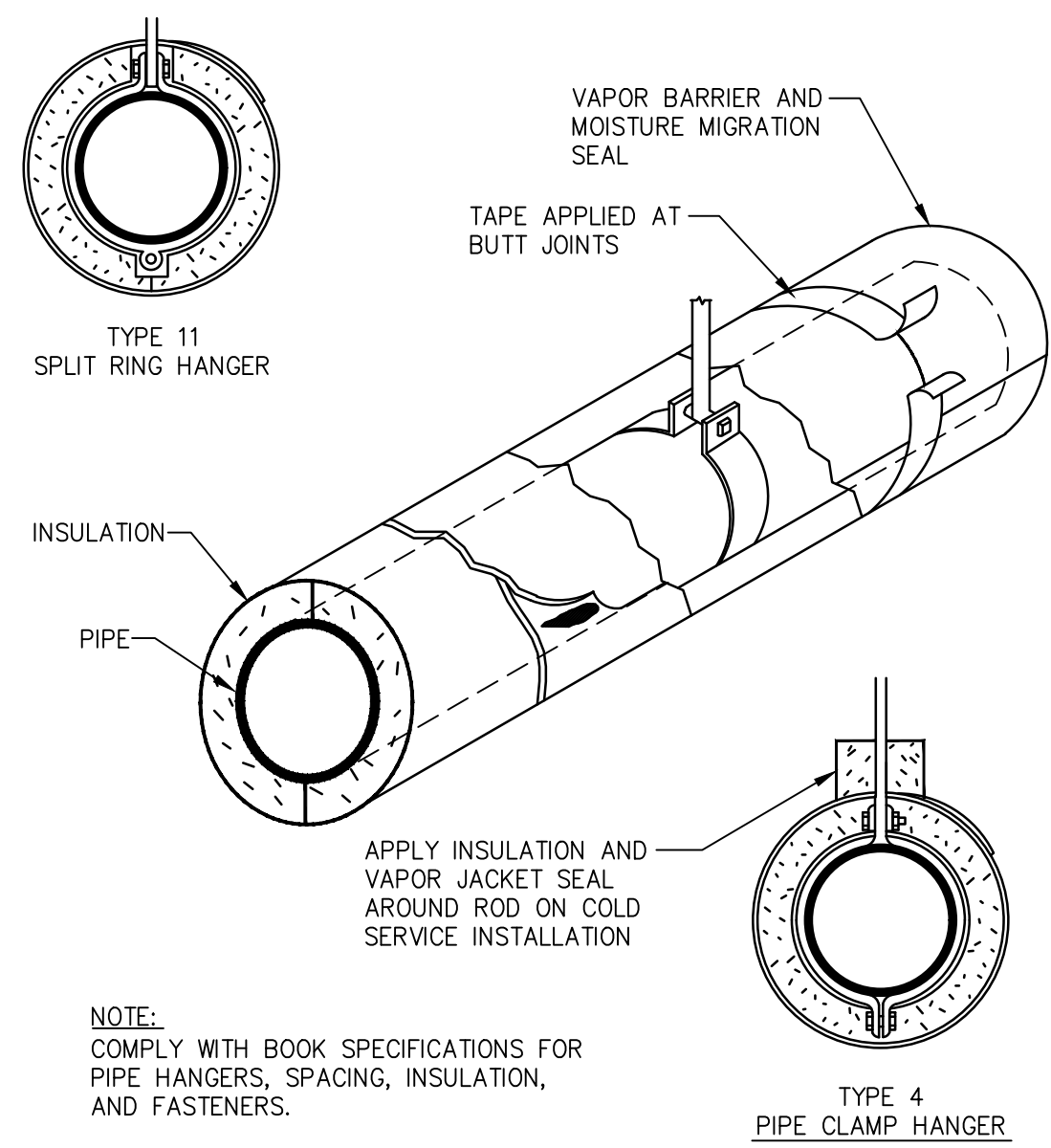
**PLUMBING NATURAL FUEL GAS PIPING RISER DIAGRAM**

PENNSAUKEN BOARD OF EDUCATION  
ROOSEVELT STEM SCHOOL ADDITION AND RENOVATIONS  
5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
PENNSAUKEN TOWNSHIP, CAMDEN COUNTY, NEW JERSEY

DATE	SHEET NO.
10-19-2020	P-4.3

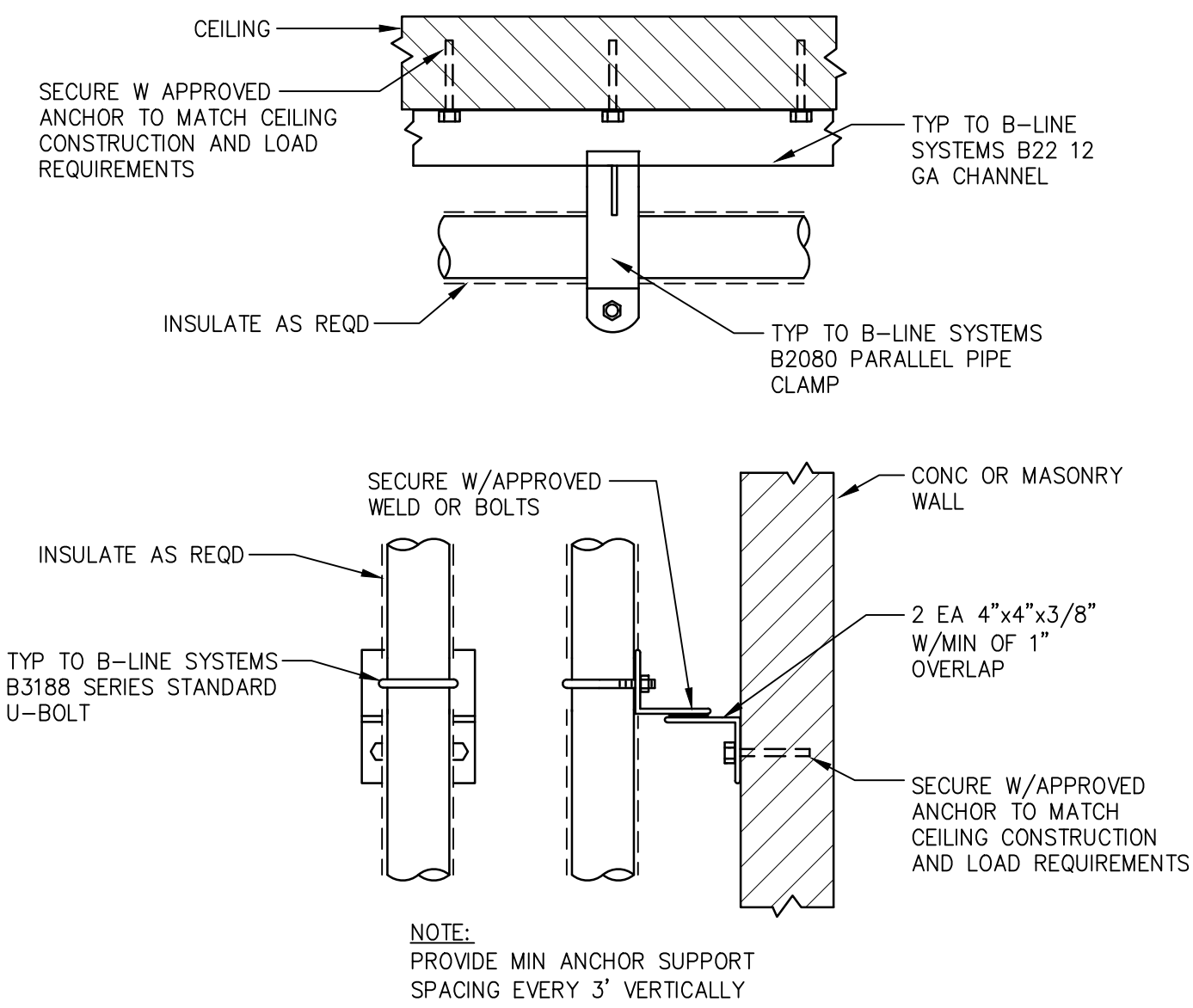
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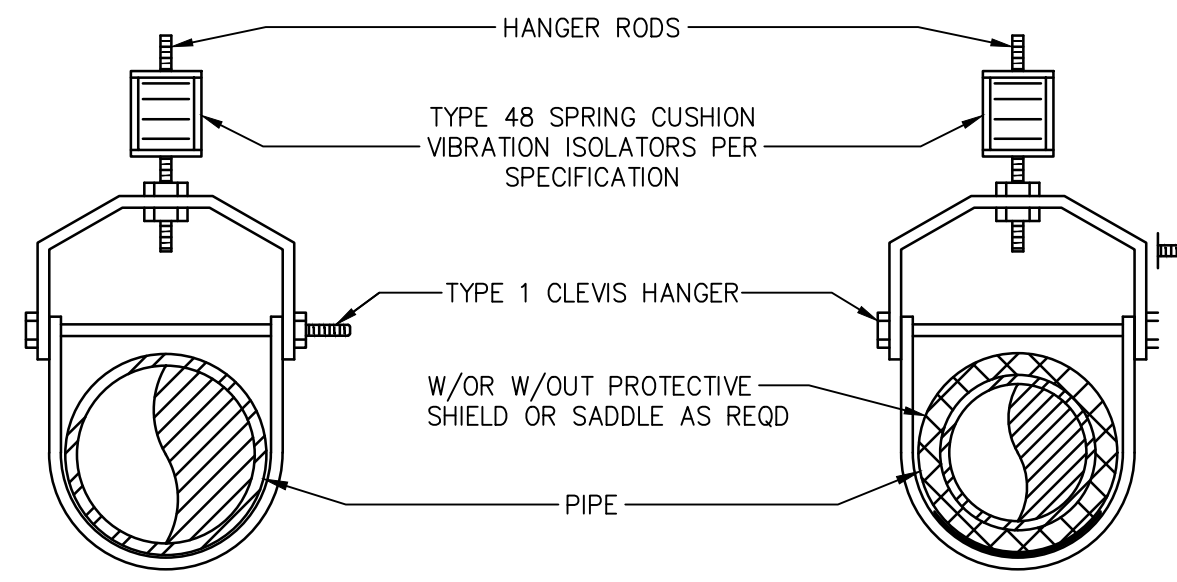
**HANGER, INSULATION AND VAPOR JACKET DETAIL**

N.T.S.



**WALL AND CEILING CONDUIT AND PIPE BRACKET SUPPORTS**

N.T.S.

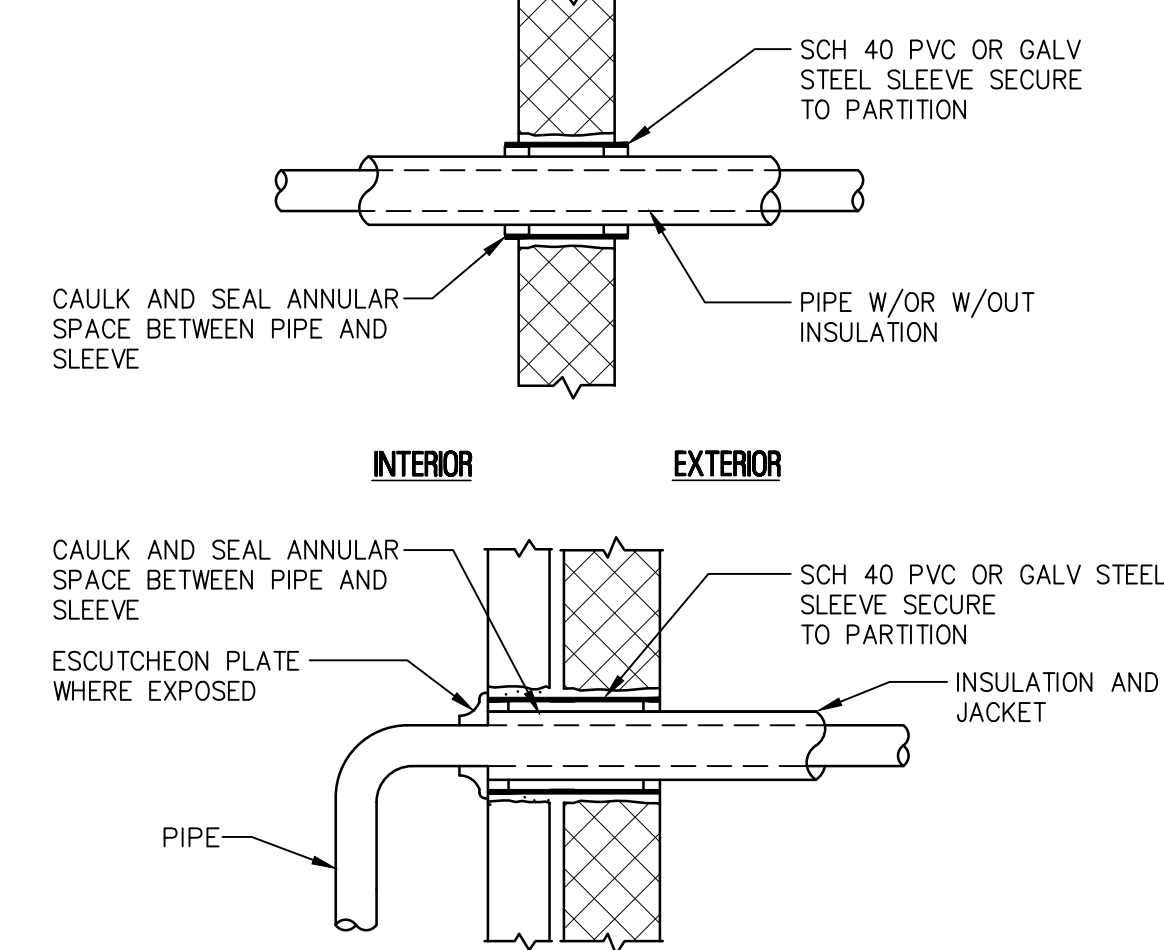


- NOTES:**
1. INSTALL PLUMB.
  2. BORE OF WASHER OR SPRING RETAINER TO BE SAME SIZE AS ROD.
  3. WELD WASHER OR SPRING RETAINER TO ROD.

**SINGLE PIPE TYPE 1 CLEVIS HANGER**

N.T.S.

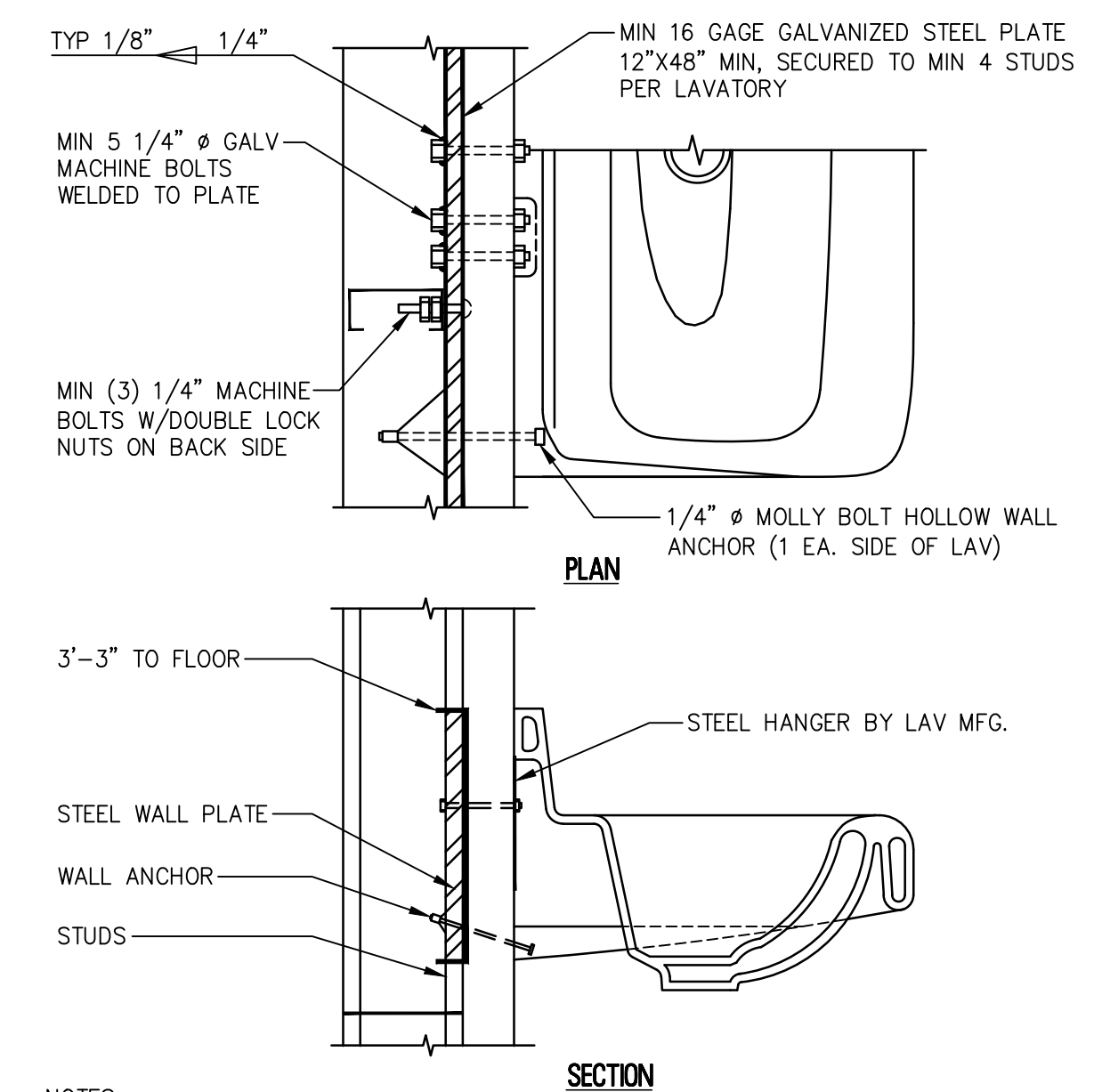
**NOTE:** WHERE PIPING IS EXPOSED AT FINISH WALLS, FLUSH MOUNT SLEEVE AND PROVIDE ESCUTCHEON PLATE.



- NOTES:**
1. TYP FOR NON-INSULATED PIPE AND CONDUIT.
  2. TYP FOR MASONRY OR CONCRETE WALL.
  3. FIRE RATED WALLS MUST BE SEALED W/ APPROPRIATE FIRE RETARDED CAULKING.
  4. ESCUTCHEONS ARE MADE TO FIT PIPE ONLY.

**PIPE PENETRATION THRU WALLS**

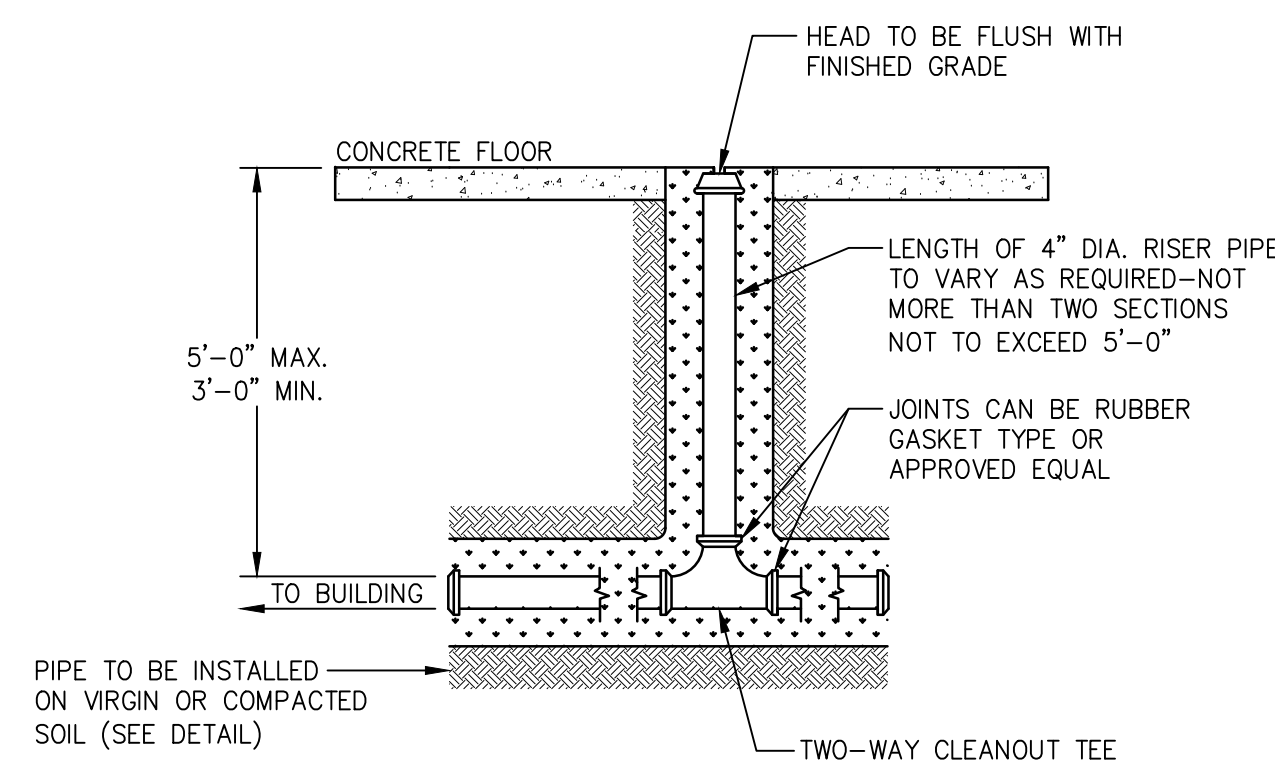
N.T.S.



- NOTES:**
1. AT LAVS WITH FLOOR PEDAL CONTROLS, PROVIDE AN ADDITIONAL 16 GAGE GALVANIZED STEEL PLATE 12"x16" SECURED TO A MINIMUM 2 STUDS FOR FOOT PEDAL. PROVIDE 20 GAGE STUDS WHEN HEIGHT EXCEEDS 12'-0".

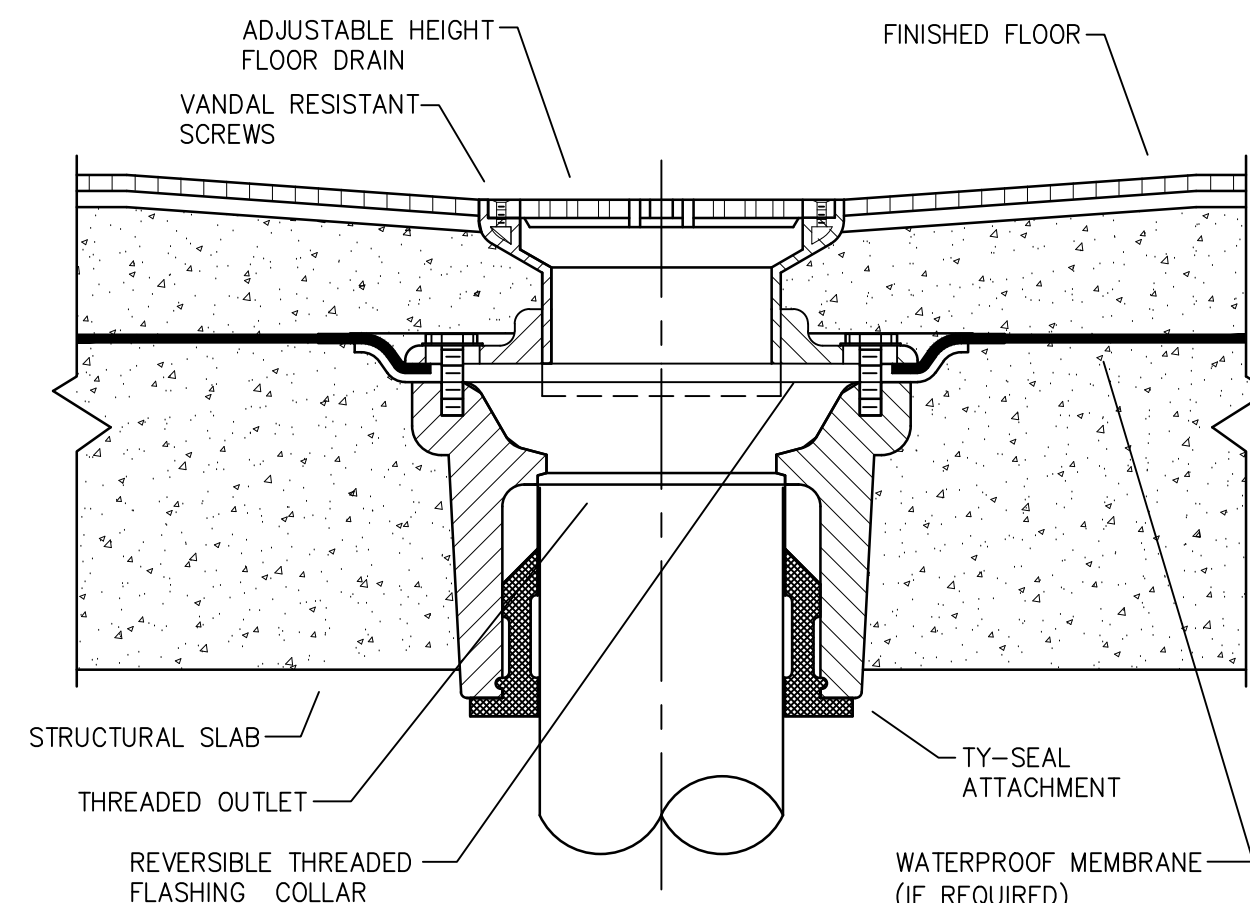
**LAVATORY MOUNTING DETAIL**

SCALE: N.T.S.



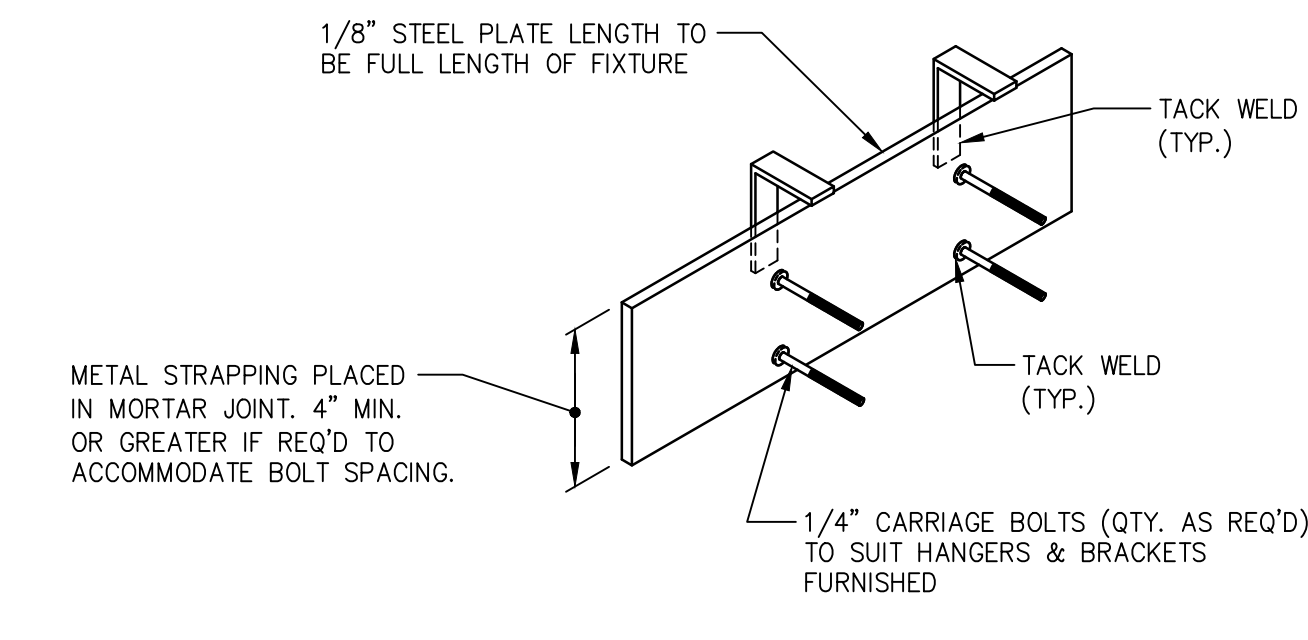
**STANDARD CLEANOUT DETAIL**

N.T.S.



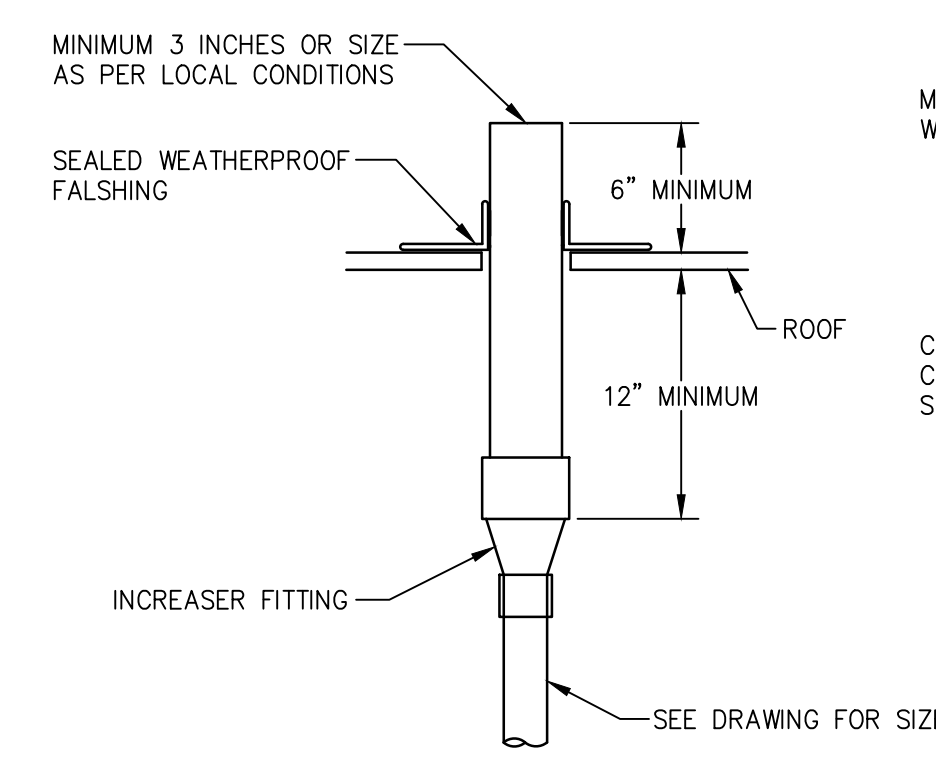
**FLOOR DRAIN DETAIL**

N.T.S.



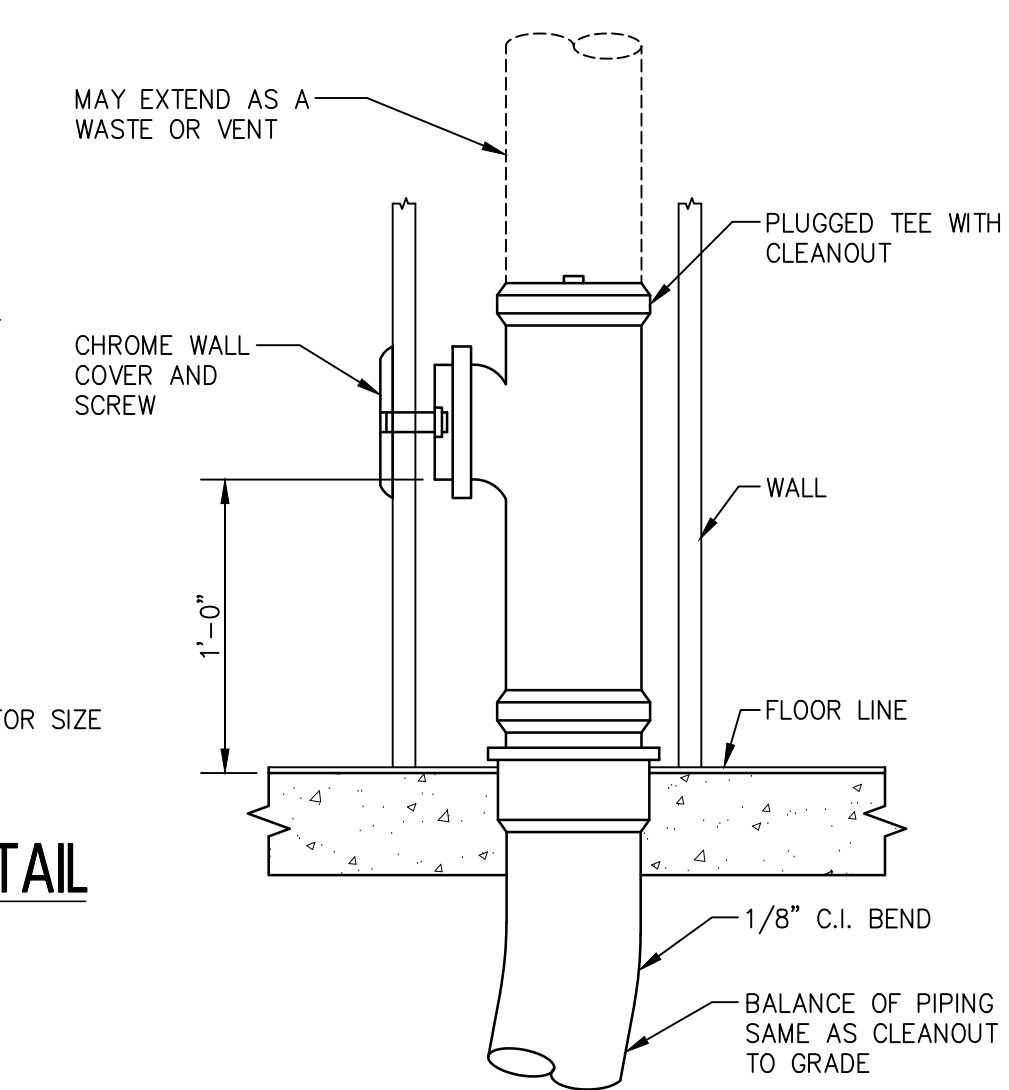
**URINAL BACKUP PLATE**

N.T.S.



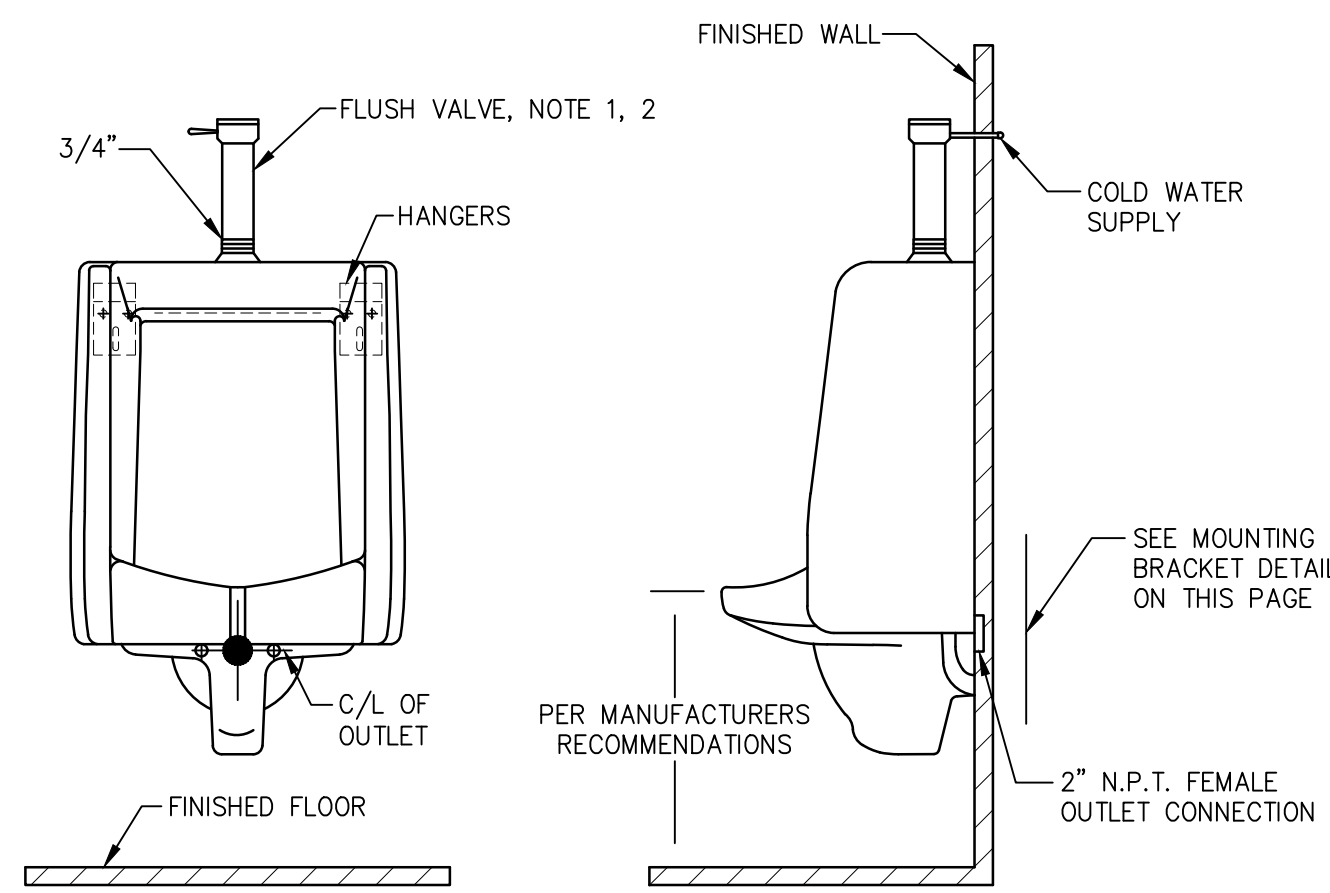
**ROOF VENT PENETRATION DETAIL**

N.T.S.



**WALL CLEANOUT DETAIL**

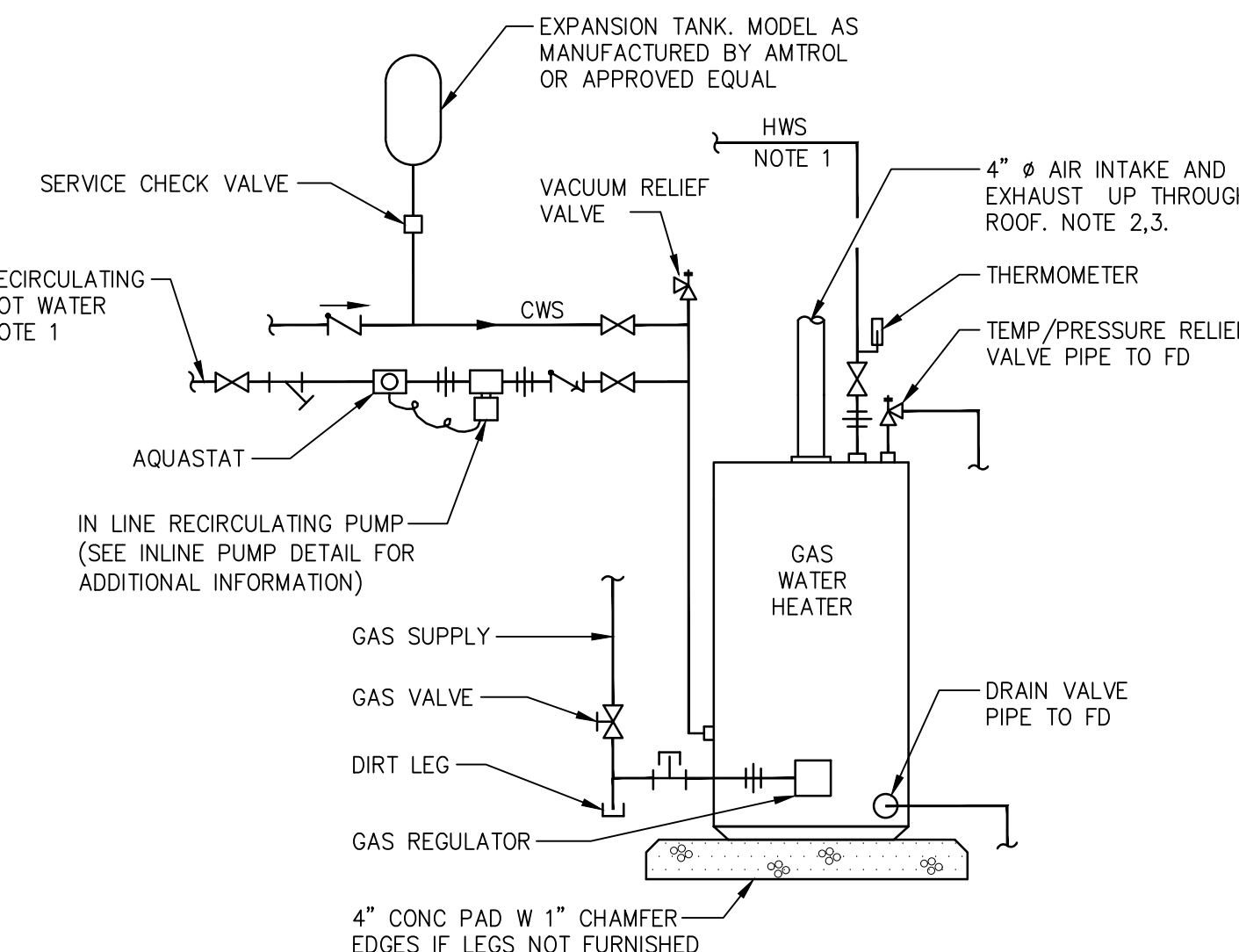
N.T.S.



**WALL MOUNTED URINAL DETAIL**

N.T.S.

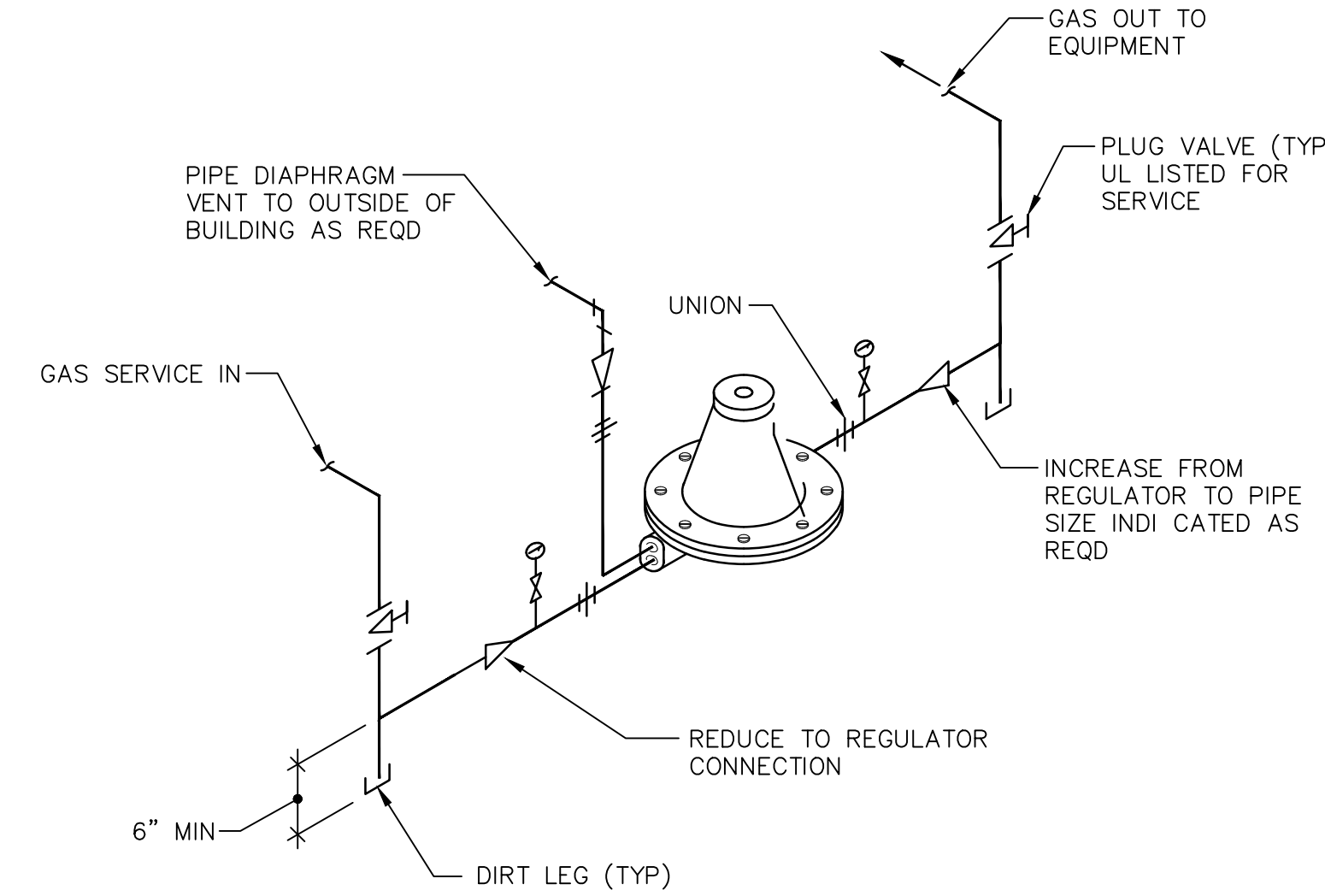
- NOTES:**
1. PROVIDE CONCEALED OR EXPOSED FLUSHVALVE AS LISTED ON THE PLUMBING FIXTURE SCHEDULE AND NOTED ON THE PROJECT DRAWINGS.
  2. PROVIDE TAMPER-PROOF STAINLESS STEEL FLUSH VALVE ACCESS PANEL WITH INTEGRAL SENSOR AND OVERRIDE BUTTON FOR CONCEALED FLUSHVALVES LOCATED IN INACCESSIBLE PLUMBING CHASES.
  3. DIMENSIONS SHOWN ARE APPROXIMATE. INSTALL FIXTURE IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS, THE ARCHITECTURAL DRAWINGS, AND ALL APPLICABLE CODES AND STANDARDS.



**HOT WATER SYSTEM PIPING**

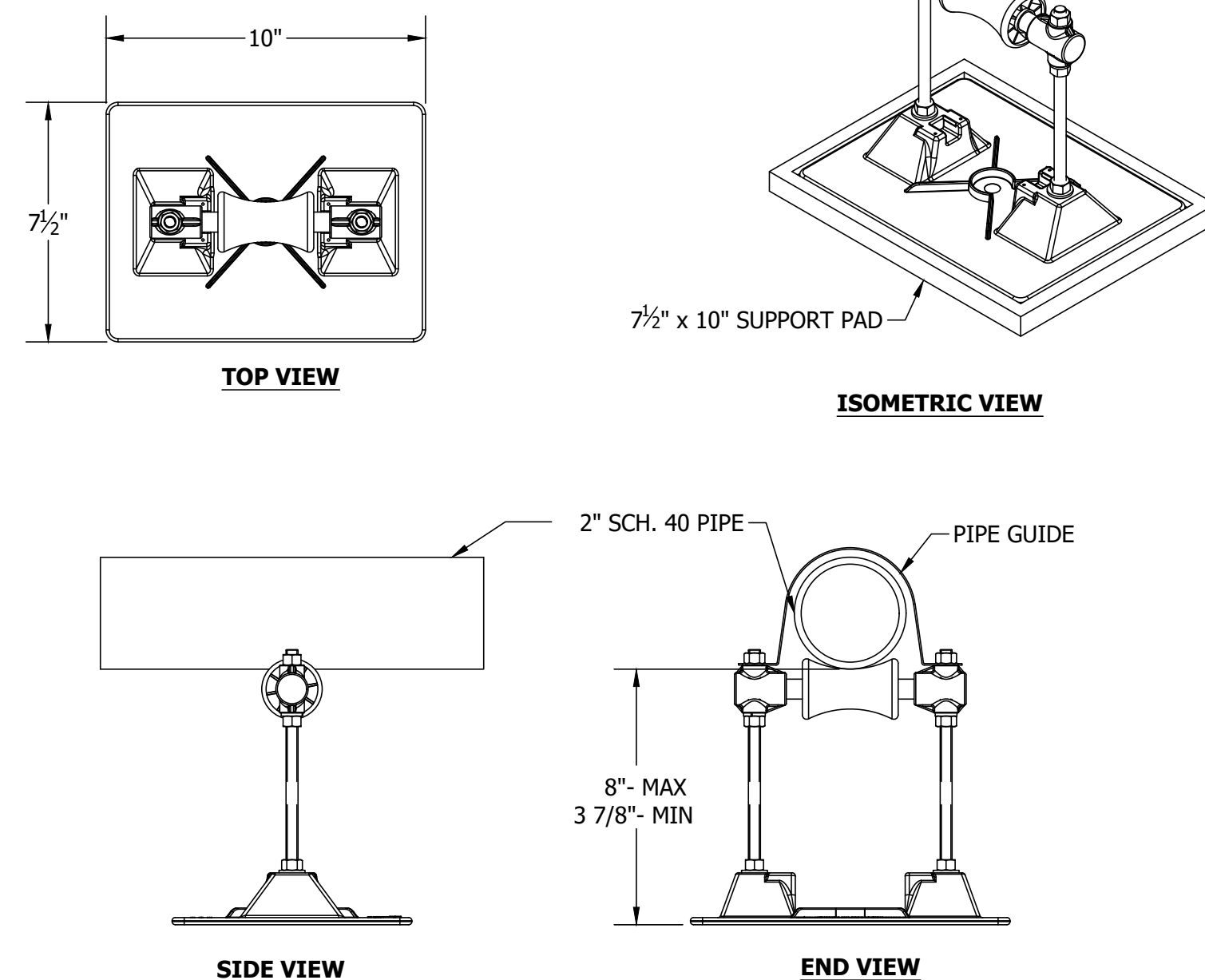
N.T.S.

- NOTES:**
1. SEE PLANS AND RISER DIAGRAMS FOR CONTINUATION.
  2. PROVIDE MANUFACTURER SUPPLIED VENT TERMINALS.
  3. EXHAUST VENTING MATERIAL AS RECOMMENDED BY MANUFACTURER.



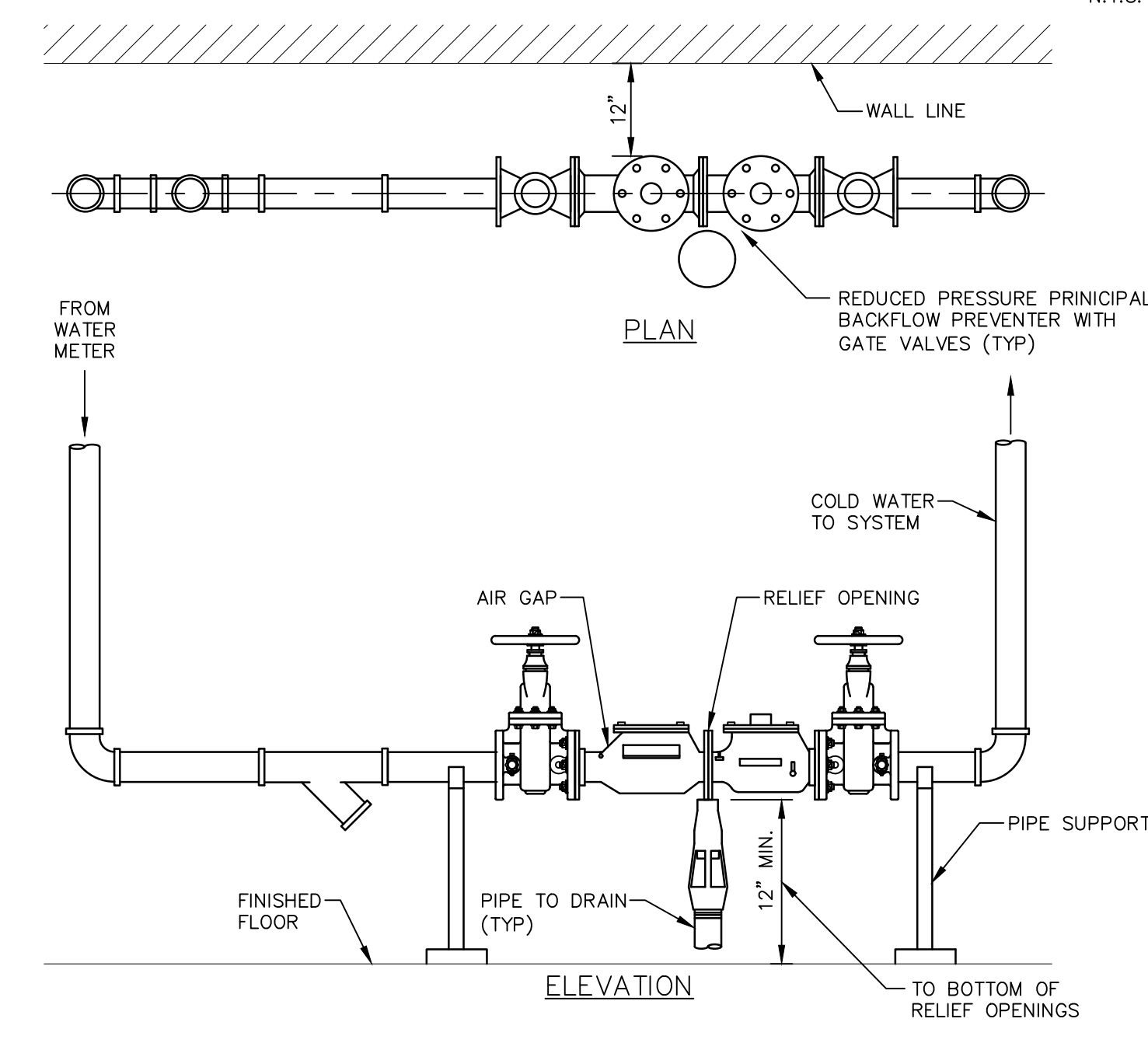
**GAS PRESSURE REDUCING STATION**

N.T.S.



**ROOF PIPING SUPPORT**

N.T.S.



**DOMESTIC WATER BACKFLOW PREVENTER DETAIL**

N.T.S.

**ISSUED FOR BID: 11-13-2020**

**RVE**  
1901  
**REMINGTON & VERNICK ENGINEERS**  
232 KINGS HIGHWAY EAST  
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(856) 795-9595, FAX (856) 795-1882  
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Certification of Authorization: NJ GA 28003300  
-ENGINEERING EXCELLENCE-

DATE: \_\_\_\_\_  
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DATE: \_\_\_\_\_  
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NO.	DATE	BY	CHK

**PLUMBING DETAILS**  
PENNSAUKEN BOARD OF EDUCATION  
**ROOSEVELT STEM SCHOOL ADDITION AND RENOVATIONS**  
5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
PENNSAUKEN TOWNSHIP CAMDEN COUNTY NEW JERSEY

DATE	SHEET NO.
10-19-2020	P-5.1
MP0330409	

**PLUMBING FIXTURE SCHEDULE**

TAG	FITTURE	DESCRIPTION	MANUF.	MODEL	ACCESSORY MANUF.	ACCESSORY	MINIMUM CONNECTION SIZE (in.)				WATER SUPPLY FIXTURE UNITS (WSFU's)	DRAINAGE FIXTURE UNITS (DFU's)
							COLD	HOT	DRAIN	VENT		
BEP-1	BACKFLOW PREVENTER	REDUCED PRESSURE ZONE ASSEMBLY	WATTS	LF909	WATTS	QT. 5	3	N/A	N/A	N/A	N/A	N/A
COG-1	CLEANOUT	OUTDOOR, CLEANOUT ON GRADE	ZURN	Z1474	ZURN	G-VP	N/A	N/A	LINE	N/A	N/A	N/A
EW-1	ELECTRIC WATER COOLER	ADA COMPLIANT ELECTRIC WATER COOLER W/ BOTTLE FILLER	ELKAY	LZ58WSP	ELKAY	TOUCHLESS SENSOR, LED FILTER STATUS, FLEX-GUARD SAFETY BUBBLER	1/2	N/A	1 1/2	1 1/4	0.8	0.5
FCD-1	CLEANOUT	HEAVY DUTY ADJUSTABLE FLOOR CLEANOUT	ZURN	Z1400	ZURN	ZN, VP	N/A	N/A	LINE	N/A	N/A	N/A
FJ-1	FLOOR DRAIN	SQUARE CAST IRON FLOOR DRAIN	ZURN	Z4155	ZURN	ZN, VP, 8" SQ. STRAINER, DEEP SEAL TRAP, TRAP SEAL PROTECTION DEVICE	N/A	N/A	3	1 1/2	N/A	0.0
HW-1	ADA WATER CLOSET	ELONGATED 1.6 GPF FLOOR MOUNTED ADA WATER CLOSET W/ EXPOSED FLUSH VALVE	ZURN	Z565.043.01.00.03	ZURN	WIRED SENSOR FLUSH VALVE W/ OVERRIDE BUTTON, TRANSFORMER, TOILET SEAT, CLOSET BOLT/WAX RING	1	N/A	3	1 1/2	8.0	6.0
LAV-1	LAVATORY SINK	WALL HUNG LAVATORY W/ AUTOMATIC FAUCET	ZURN	Z5340.882.1.04.ET.0.00	ZURN	WIRED SENSOR FAUCET, THERMOSTATIC MIXING VALVE, TRANSFORMER, TRAP W/ ADA WRAP, SUPPLY KIT, CARRIER, UNDERSINK PIPING SHIELD	1/2	1/2	1 1/2	1 1/4	1.0	1.0
MSB-1	MOP SERVICE BASIN	PRECAST TERRAZZO W/6" DROP FRONT	FIAT	T5B-3000	FIAT	FIAT B30-AA, B32-AA, & B89-CC, ZURN Z843M1-XL FAUCET	1/2	1/2	3	1 1/2	3.0	3.0
MV-1	MIXING VALVE	THERMOSTATIC POINT OF USE MIXING VALVE	LEONARD	MODEL 270-LF	N/A	N/A	1/2	1/2	N/A	N/A	N/A	N/A
RD-1	ROOF DRAIN	ROOF DRAIN W/ ADJUSTABLE EXTENSION	JAY R. SMITH	1015	JAY R. SMITH	1015-AD-U	N/A	N/A	6	N/A	N/A	N/A
S-1	SINK	STAINLESS STEEL SINGLE BOWL SINK PACKAGE W/FAUCET, DRAIN & BUBBLER	ELKAY	CSK42231P3RC	ELKAY	PROVIDE WITH FAUCET, DRAIN AND BUBBLER	1/2	1/2	1 1/2	1 1/2	2.0	2.0
S-2	HAND WASH SINK	HAND WASH SINK	SEE ARCH. DWGS	SEE ARCH. DWGS	SEE ARCH. DWGS	SEE ARCH. DWGS	1/2	1/2	1 1/2	1 1/2	2.0	2.0
S-3	THREE COMPARTMENT SINK	THREE COMPARTMENT SINK	SEE ARCH. DWGS	SEE ARCH. DWGS	SEE ARCH. DWGS	SEE ARCH. DWGS	1/2	1/2	1 1/2	1 1/2	2.0	2.0
UR-1	URINAL	1.0 GPF WALL HUNG URINAL W/ MANUAL FLUSH VALVE	ZURN	Z5730.11B.11.VB	ZURN	WIRED SENSOR FLUSH VALVE W/OVERRIDE BUTTON, TRANSFORMER, FLANGE AND STRAINER, MOUNTING BRACKET/CARRIER	1	N/A	2	1 1/2	5.0	5.0
WC-1	WATER CLOSET	ELONGATED 1.6 GPF FLOOR MOUNTED WATER CLOSET W/ EXPOSED FLUSH VALVE	ZURN	Z565.043.01.00.03	ZURN	WIRED SENSOR FLUSH VALVE W/ OVERRIDE BUTTON, TRANSFORMER, TOILET SEAT, CLOSET BOLT/WAX RING	1	N/A	3	1 1/2	8.0	6.0
WHY-1	WALL HYDRANT	BOX TYPE NON-FREEZE WALL HYDRANT W/VACUUM BREAKER	ZURN	Z1300	ZURN	GL, PB, BK, (SEE DWGS. FOR WALL THICKNESS), EXTRA OPERATING KEY	1/2	N/A	N/A	N/A	2.5	N/A
WHA-1	WATER HAMMER ARRESTOR	IN-LINE WATER HAMMER ARRESTOR	WILKINS/ZURN	1250XL-B	N/A	NOTE 3	3/4	N/A	N/A	N/A	N/A	N/A

NOTES:  
 1. COLOR/FINISH TO BE AS APPROVED BY THE ARCHITECT/OWNER.  
 2. PROVIDE ALL ACCESSORIES REQUIRED TO OPERATE AND INSTALL FIXTURES. INSTALL FIXTURES IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS AND ALL APPLICABLE CODES. COORDINATE FIXTURE DIMENSIONS WITH ARCHITECTURAL DRAWINGS.  
 3. PROVIDE ACCESS PANELS FOR WATER HAMMER ARRESTORS AS RECOMMENDED BY MANUFACTURER.  
 4. PROVIDE MIXING VALVES IN ACCORDANCE WITH MANUFACTURER'S RECOMMENDATIONS. LOCATE IN ACCESSIBLE LOCATION. PROVIDE ACCESS PANEL AS REQUIRED.

**GAS HOT WATER HEATER SCHEDULE**

TAG	MANUF.	LOCATION SERVED	MODEL	GAS INPUT (MBH)	THERMAL EFFICIENCY	RECOVERY @ 100°F (gal/hr)	VENT SIZE (in)	INTAKE SIZE (in)	COLD WATER INLET (in)	HOT WATER OUTLET (in)	NOTES
HWH-1	LOCHINVAR	VARIOUS	SN4201-12S	199	96%	221	3	3	1-1/2	1-1/2	1

NOTES:  
 1. PROVIDE WITH LOW-WATER CUT-OFF, INTEGRATED CONTROL WITH LCD DISPLAY, ALARM CONTACTS, MANUAL RESET HIGH LIMIT, DIRECT VENT SYSTEM, CONDENSATE NEUTRALIZATION KIT, AND ALL OTHER ACCESSORIES REQUIRED BY THE MANUFACTURER.

**RECIRCULATION PUMP SCHEDULE**

TAG	SERVICE	TYPE	FLUID TYPE	FLOW (gpm)	TDH (ft)	MOTOR HP	MOTOR RPM	ELEC. (V/Hz/Ph)	BASIS OF DESIGN MANUFACTURER	MODEL	NOTES
RP-1	DOMESTIC HOT WATER	CIRCULATOR	WATER	10	50	1/2	3700	208-230/60/1	BELL & GOSSETT	ECCORC XL 55-45	1

NOTES:  
 1. PROVIDE WITH BALANCING VALVE, CONTROLS, DISCONNECT SWITCH AND STARTER.

**EXPANSION TANKS**

TAG	TANK VOL/ME (GAL)	MAX. ACCEP. FACTOR	MAX. WORKING PRESSURE (PSIG)	TANK DIA. (IN)	TANK LENGTH (IN)	APPROX. TANK HEIGHT (100% FULL) (LBS)	MANUFACTURER & MODEL NUMBER	NOTES
ET-1	8	0.64	150	12	19	41	AMTROL ST-20VC	1

NOTES:  
 1. FINAL TANK SIZE TO BE AS APPROVED BY THE MANUFACTURER.

**RVE**  
 1901  
**REMINGTON & VERNICK ENGINEERS**  
 232 KINGS HIGHWAY EAST  
 HADDONFIELD, NJ 08033  
 (856) 795-9595, FAX (856) 795-1882  
 WEB SITE ADDRESS : WWW.RVE.COM  
 Certification of Authorization: 24 GA 28003300  
 —ENGINEERING EXCELLENCE—

DATE:  
**CHRISTOPHER A. SAPONARO**  
 NJ PROFESSIONAL ENGINEER LIC. NO. 40059

DATE:  
**BRIAN B. GREGG**  
 NJ PROFESSIONAL ENGINEER LIC. NO. 46577

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NO.	REVISION	DATE	BY	CHK

**PLUMBING SCHEDULES**

PENNSAUKEN BOARD OF EDUCATION  
**ROOSEVELT STEM SCHOOL, ADDITION AND RENOVATIONS**  
 5526 WISTERIA AVENUE, PENNSAUKEN, NEW JERSEY 08109  
 PENNSAUKEN TOWNSHIP, CAMDEN COUNTY, NEW JERSEY

DESIGNED BY	CHECKED BY	SCALE
B.Z.	C.H.	AS NOTED
DATE:	SHEET NO.:	
10-19-2020	P-6.1	
PROJECT:		
MP330K048		

ISSUED FOR BID: 11-13-2020

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