

PLUMBING LEGEND AND ABBREVIATIONS			
SYMBOL & DESCRIPTION	ABBREVIATIONS	REFERENCE SYMBOLS	
	SAV AUTOMATIC AIR VENT		EQUIPMENT TYPE
	AD AREA DRAIN		EQUIPMENT NUMBER
	ANT ACID NEUTRALIZATION TANK		DEMOLITION NOTE DESIGNATION
	AFF ABOVE FINISHED FLOOR		NEW WORK NOTE DESIGNATION
	AHU AIR HANDLING UNIT		EXTENT OF DEMOLITION
	AW ACID WASTE		CONNECT TO EXISTING
	BFF BELOW FINISHED FLOOR		PLAN NUMBER
	BFG BELOW FINISHED GRADE		DRAWING NUMBER
	BFP BACK FLOW PREVENTER		
	BLW BELOW		
	BV BALANCING VALVE		
	BT BATH TUB		
	CA COMPRESSED AIR		
	CD CONDENSATE DRAIN		
	CO CLEANOUT		
	CP CIRCULATING PUMP		
	CFH CUBIC FEET PER HOUR		
	CONT CONTINUATION		
	CW COLD WATER		
	DCW DOMESTIC COLD WATER		
	DF DRINKING FOUNTAIN		
	DFU DRAINAGE FIXTURE UNIT		
	DHW DOMESTIC HOT WATER		
	DIA DIAMETER		
	DN DOWN		
	DW DISHWASHER		
	DWG DRAWING		
	(E) EXISTING		
	EA EACH		
	E.C. ELECTRICAL CONTRACTOR		
	ELV ELEVATION		
	ESEW EMERGENCY EYE WASH/SHOWER		
	EMV EMERGENCY MIND VALVE		
	EW EMERGENCY EYE WASH		
	ENC ELECTRIC WATER COOLER		
	EMH ELECTRIC WATER HEATER		
	EXT EXPANSION TANK		
	FR FROM		
	FOO FLOOR CLEANOUT		
	FD FLOOR DRAIN		
	F.F. FINISHED FLOOR		
	FLR FLOOR		
	FM FORCED MAIN		
	FP FIRE PROTECTION		
	FPC FIRE PROTECTION CONTRACTOR		
	FS FLOOR SINK		
	FWG FOOD WASTE GRINDER		
	G NATURAL GAS		
	G.C. GENERAL CONTRACTOR		
	GI GREASE INTERCEPTOR		
	GM NATURAL GAS METER		
	GPM GALLONS PER MINUTE		
	GPH GALLONS PER HOUR		
	GWH GAS WATER HEATER		
	HB HOSE BIBB		
	HW HOT WATER		
	HWR HOT WATER RETURN		
	HWCP HOT WATER CIRCULATOR PUMP		
	IG INTERRUPTIBLE GAS		
	IN INCH		
	INV INVERT		
	IWD INDIRECT WASTE DRAIN		
	IWH INSTANTANEOUS WATER HEATER		
	LAV LAVATORY		
	LPG LIQUIFIED PETROLEUM GAS (PROPANE)		
	M.C. MECHANICAL CONTRACTOR		
	MAX MAXIMUM		
	MIN MINIMUM		
	MOP MOP RECEPTOR		
	MV MIXING VALVE		
	(N) NEW		
	OD OVERFLOW ROOF DRAIN		
	P.C. PLUMBING CONTRACTOR		
	PDI PLUMBING & DRAINAGE INSTITUTE		
	PRESS. PRESSURE		
	PRV PRESSURE REDUCING VALVE		
	(R) REMOVE		
	RD ROOF DRAIN		
	RPZ REDUCED PRESSURE ZONE		
	RWC RAIN WATER CONDUCTOR		
	S SANITARY		
	SA SHOCK ABSORBER		
	SH SHOWER		
	SK SINK		
	SEP SEWAGE EJECTOR PUMP		
	SP SUMP PUMP		
	TEMP. TEMPERATURE		
	TP TRAP PRIMER		
	TW TEMPERED WATER		
	TYP TYPICAL		
	YH YARD HYDRANT		
	UR URINAL		
	V VENT		
	VTR VENT THRU ROOF		
	W WASTE		
	W/ WITH		
	WMB WASHER MACHINE BOX		
	WC WATER CLOSET		
	WCO WALL CLEANOUT		
	WV WHIRLPOOL FILL VALVE		
	WH WALL HYDRANT		
	WSFU WATER SUPPLY FIXTURE UNIT		

**GENERAL NOTES**

- ALL PLUMBING EQUIPMENT AND INSTALLATIONS SHALL CONFORM WITH THE REQUIREMENTS OF THE UNIFORM CONSTRUCTION CODE (UCC) OF THE STATE OF NEW JERSEY, INCLUDING THE FOLLOWING, AS ADOPTED AND AMENDED BY THE UCC 2010 NATIONAL STANDARD PLUMBING CODE, 2015 INTERNATIONAL BUILDING CODE, 2015 INTERNATIONAL ENERGY CONSERVATION CODE, 2015 FUEL GAS CODE, UNDERWRITERS LABORATORIES (UL), AND ALL APPLICABLE LOCAL CODES ENFORCED BY THE AUTHORITY HAVING JURISDICTION.
- PRIOR TO PURCHASING ANY MATERIALS OR COMMENCING WORK, PLUMBING CONTRACTOR SHALL FIELD VERIFY ALL EXISTING CONDITIONS, PIPING SIZES AND LOCATIONS, EQUIPMENT, ETC. SHOWN ON THE DRAWINGS OR AFFECTING THIS WORK AND SHALL REPORT ANY DEVIATIONS TO THE ENGINEER.
- PROVIDE ALL LABOR, MATERIAL, AND EQUIPMENT COMPLETELY TO PROVIDE FULLY OPERATIONAL SYSTEMS.
- ALL PLUMBING EQUIPMENT SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURER'S RECOMMENDATIONS.
- WATER PIPING ABOVE THE CEILING AND IN EXTERIOR WALLS SHALL BE INSTALLED ON THE HEATED SIDE (UNDERSIDE) OF CEILING INSULATION AND HEATED SIDE (INSIDE) OF WALL INSULATION.
- SANITARY AND DRAINAGE PIPING 2" AND SMALLER SHALL BE INSTALLED WITH A MINIMUM SLOPE OF 1/4" PER FOOT. PIPING 3" AND LARGER SHALL BE SLOPED AT 1/8" PER FOOT.
- PLUMBING CONTRACTOR SHALL COORDINATE THE INSTALLATION OF ALL PLUMBING EQUIPMENT, PIPING, ETC. TO FIT WITHIN THE SPACE ALLOWED BY THE ARCHITECTURAL AND STRUCTURAL CONDITIONS. CUTTING OR ALTERING ANY STRUCTURAL MEMBERS SHALL NOT BE PERMITTED WITHOUT WRITTEN PERMISSION FROM THE ARCHITECT OR STRUCTURAL ENGINEER.
- PLUMBING CONTRACTOR IS RESPONSIBLE FOR REMOVAL AND STORAGE EXISTING CEILING SYSTEMS, GRID SYSTEMS, TEMPORARY REMOVAL AND SUPPORTING ALL EXISTING CEILING DEVICES INCLUDING BUT NOT LIMITED TO SPEAKERS, DIFFUSERS, LIGHTS, SPRINKLERS AND SENSORS AND RE-INSTALLING SUCH DEVICES AT COMPLETION OF WORK NECESSARY TO PERFORM ALL REQUIRED WORK IN AREAS WHERE CEILING SYSTEMS ARE TO REMAIN AND ARE NOT BEING REPLACED. NOTIFY OWNER OF ANY DAMAGED TILES, SUPPORTS, AND/OR CEILING MOUNTED DEVICES PRIOR TO ANY REMOVAL WORK COMMENCING. REPLACE ANY TILES, SUPPORTS, AND/OR CEILING DEVICES DAMAGED AS A DIRECT RESULT OF WORK BEING PERFORMED. COORDINATE ALL AREAS OF PROPOSED CEILING REMOVAL WITH OWNER FOR APPROVAL PRIOR TO COMMENCING. COORDINATE WITH ALL ADJACENT TRADE WORK AND EXISTING SYSTEMS.
- PROVIDE SHOCK ABSORBERS ON ALL DOMESTIC WATER PIPING SERVING FLUSH VALVE FIXTURES, WASHING MACHINE SUPPLIES, SOLENOID VALVES, AND OTHER QUICK CLOSING VALVES.
- PERFORM ALL CUTTING AND PATCHING NECESSARY TO PERFORM WORK. MATCH EXISTING MATERIALS, FINISHES, FIRE RATINGS, PAINT COLORS, ETC. IN ALL AREAS OF PATCHING.
- REFER TO ARCHITECTURAL DRAWINGS FOR CONSTRUCTION DETAILS.
- PLUMBING PIPING LAYOUTS ARE SCHEMATIC IN NATURE. CONTRACTOR IS REQUIRED TO PROVIDE ALL OFFSETS AND FITTINGS AS REQUIRED TO ACCOMMODATE FIELD CONDITIONS.
- ATTENTION BIDDERS - PROJECT CONSTRUCTION SCHEDULE REQUIREMENTS AND PHASING - INCORPORATE IN BID THE COST TO ACCOMMODATE ALL CONSTRUCTION SCHEDULE REQUIREMENTS AND PHASING AS REQUIRED BY SCHEDULING OF WORK DEFINED ON ARCHITECTURAL DRAWINGS AND IN DIVISION 1 SPECIFICATIONS. SUBMISSION OF BID INDICATES COMPLIANCE WITH LISTED DOCUMENTS.
- GENERAL NOTES APPLY TO ALL DRAWINGS, PLANS AND SCHEDULES.

**PLUMBING/ELECTRICAL COORDINATION**

- CONTRACTOR SHALL COORDINATE ELECTRICAL CHARACTERISTICS AND REQUIREMENTS OF ALL PLUMBING EQUIPMENT WITH ELECTRICAL DRAWINGS & ELECTRICAL CONTRACTOR PRIOR TO ORDERING OR INSTALLING EQUIPMENT. CONTRACTOR SHALL FURNISH EQUIPMENT COMPATIBLE FOR THE VOLTAGES SHOWN ON THE ELECTRICAL DRAWINGS.
- ALL PLUMBING EQUIPMENT REQUIRING ELECTRICAL POWER SHALL BE INSTALLED WITH DISCONNECT SWITCHES AT EACH PIECE OF EQUIPMENT. COORDINATE SWITCH TYPE (FUSED OR NON-FUSED) WITH EQUIPMENT CHARACTERISTICS, MANUFACTURER'S RECOMMENDATIONS, AND THE ELECTRICAL DRAWINGS.

**PHASING NOTE**

- GENERAL TO ALL DRAWINGS AND ALL AREAS OF WORK. PLUMBING CONTRACTOR IS TO PROVIDE ALL NECESSARY ISOLATION VALVES, FITTINGS, OFFSETS, SYSTEM DRAINAGE, SYSTEM FILLING, PIPING, SUPPORTS AND ALL ASSOCIATED APPURTENANCES WHERE REQUIRED TO ENSURE NECESSARY PLUMBING FIXTURES AND SYSTEMS ARE OPERATIONAL DURING ADJACENT AREAS OF WORK AND OVERALL PROJECT PHASING. CONTRACTOR IS TO REVIEW IN DETAIL PROJECT PHASING DRAWINGS AND REQUIREMENTS IN FULL AND COORDINATE PRIOR TO WORK COMMENCING.

PLUMBING FIXTURE SCHEDULE												
TAG NO.	FIXTURE	HANDICAPPED	MANUF.	MODEL NO.	MATERIAL	FAUCET / FLUSH VALVE	MATERIAL	CONNECTION SIZE				REMARKS / ACCESSORIES
								C.W.	H.W.	WASTE	VENT	
WC-1	WATER CLOSET - FLOOR MOUNTED - ADA		ZURN	Z5665-BWL	VITREOUS CHINA	SLOW OPTIMA #8111-128 - BATTERY POWERED SENSOR FLUSH VALVE	CHROME PLATED BRASS	1"	-	4"	1 1/2"	WHITE 1.28 GPF FLOOR MOUNTED, BATTERY POWERED SENSOR FLUSH VALVE WATER CLOSET W/ OPEN FRONT WHITE PLASTIC SEAT & STAINLESS STEEL SELF-SUSTAINING HINGES. PROVIDE FLOOR FLANGE AND MAX SEAL TO SUIT.
LAV-1	LAVATORY - WALL HUNG - ADA		ZURN	Z5344	VITREOUS CHINA	ZURN 28915-XL-F-NAV BATTERY POWERED SENSOR FAUCET	CHROME PLATED BRASS	3/4"	3/4"	1 1/2"	1 1/2"	PROVIDE CHROME SUPPLIES, 0.5 GPM VANDAL-RESISTANT AERATOR, GRIDDED STRAINER, IN-LINE STOPS, BATTERY POWERED SENSOR FAUCET WITH BELOW DECK ASSE 1070 THERMOSTATIC CONTROL MIXING VALVE (BOT), WITH MAXIMUM LEAVING WATER TEMPERATURE SET TO 110°F. PROVIDE "TRUBRO" "LAY SHELD" RIGID ENCLOSURE PRE CUT TO FURNISHED LAVATORY. LAV SHELD SHALL CONCEAL THE SUPPLIES, TRAP, MIXING VALVE, ELECTRIC FAUCET COMPONENTS, ETC. MAINTAIN 9" TOE CLEARANCE.
SK-1	CLASSROOM SINK - 19"x21"x16" - ADA		-	FURNISHED BY G.C.	STAINLESS STEEL	FURNISHED BY G.C.	CHROME PLATED BRASS	3/4"	3/4"	1 1/2"	1 1/2"	14 GAUGE STAINLESS STEEL SINGLE BOWL SINK, 19"x21"x16" DEEP. PROVIDE SUPPLIES, IN-LINE STOPS AND P-TRAP TO SUIT. INSULATE TRAP AND SUPPLIES.
MR-1	MOP RECEPTOR	-	FIAT	MSB-2424	MOLDED STONE	FIAT #803-AA	CHROME PLATED BRASS	3/4"	3/4"	3"	2"	24"Wx24"Dx10"H MOP RECEPTOR W/ 3" CAST BRASS DRAIN & 3" DRAIN SEAL GASKET (MS-2411), DOME STRAINER, LINT BASKET, MS-2437 MOP HANGER, RUBBER HOSE & MS-2405 HANGER.
EW-1	ELECTRIC WATER COOLER W/ BOTTLE FILLING STATION - ADA		ELKAY	L2S08WJK	STAINLESS STEEL	-	-	3/4"	-	1 1/2"	1 1/2"	PROVIDE WALL CARRIER TO SUIT, VANDAL-RESISTANT BUBBLER AND REPLACEMENT FILTER. REFER TO ARCHITECTURAL DOCUMENTS FOR EXACT MOUNTING HEIGHT.
WV-1	WHIRLPOOL FILL VALVE	-	LEONARD VALVE	LV-356-20-W/HA-DT	CHROME PLATED BRASS	-	-	3/4"	3/4"	-	-	VALVE TO BE CHROME PLATED COMPLETE WITH A UNION END, LOOSE KEY, ANGLE STOP, CHECK VALVES WITH BUILT-IN STRAINERS AND VACUUM MOUNT VALVE ASSEMBLY ON WALL. PROVIDE 9 FOOT RUBBER HOSE, WALL HOOK AND DIAL THERMOMETER. COORDINATE MOUNTING HEIGHTS WITH ARCHITECTURAL DOCUMENTS.
WMB-1	WASHING MACHINE BOX	-	QUY GRAY	B200	GALVANIZED STEEL	-	-	3/4"	3/4"	2"	1 1/2"	20 GAUGE GALVANIZED STEEL WASHER BOX WITH 2" DRAIN CONNECTION IN CENTER OF BOX AND HOSE ANGLE VALVES.
TP-1	TRAP PRIMER	-	MIFAB	MR500-MIDU	BRASS	-	-	3/4"	-	-	-	UNIT TO FEED 1 TO 4 TRAPS. LOCATE TRAP PRIMER IN THE WALL AND PROVIDE ACCESS PANEL. REFER TO DETAIL.

NOTES:  
1. REFER TO ARCHITECTURAL DRAWINGS FOR ALL ITEMS NOTED AS "BY OTHERS." COORDINATE INSTALLATION OF ITEMS WITH G.C.  
2. REFER TO ARCHITECTURAL DRAWINGS FOR MOUNTING HEIGHTS AND ACCESSIBILITY REQUIREMENTS OF ALL PLUMBING FIXTURES.

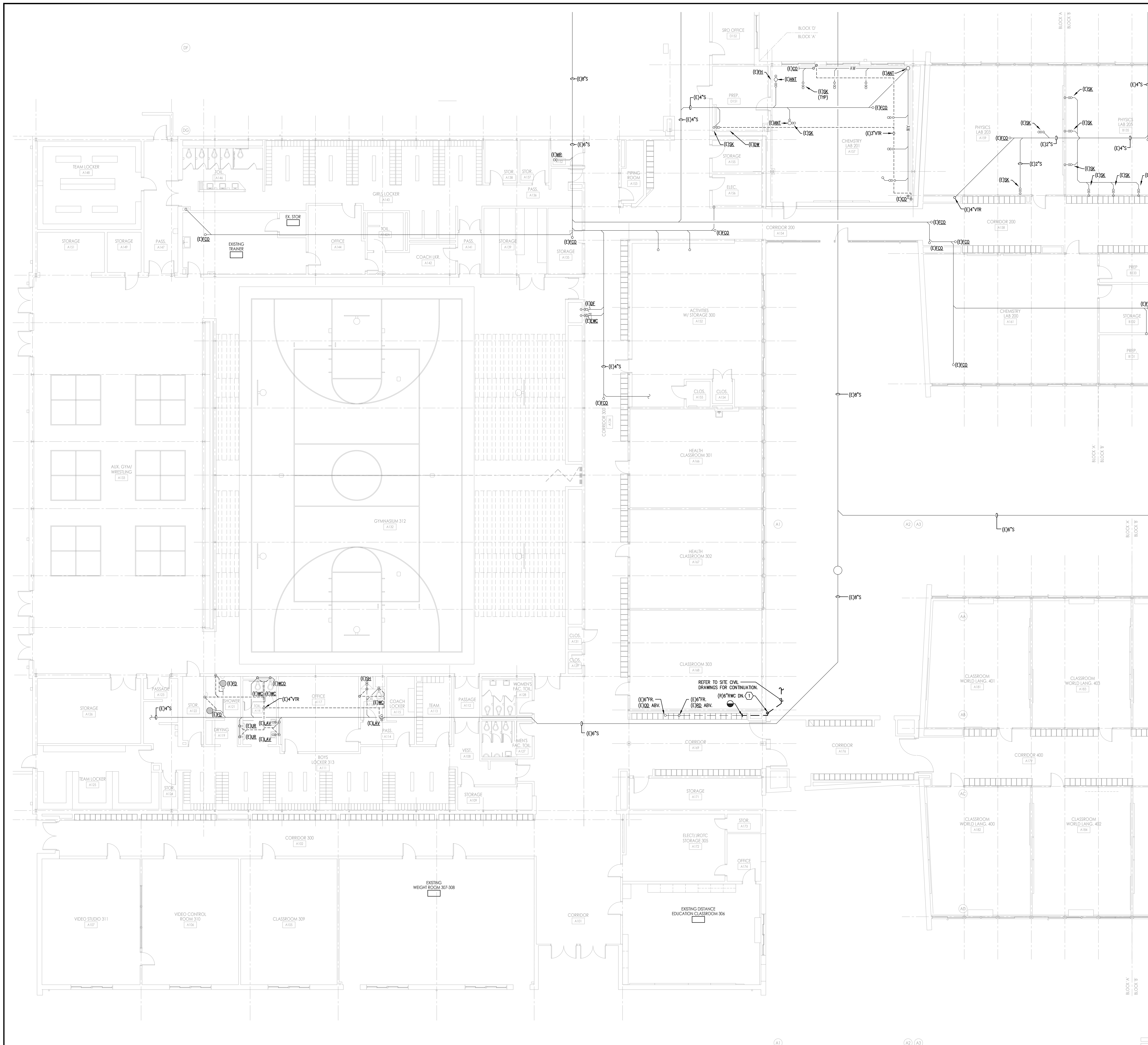
MIXING VALVE SCHEDULE											
TAG NO.	BASIS OF DESIGN MANUFACTURER & MODEL NO.	LOCATION	VALVE TYPE	DESIGN FLOW (GPM)	MIN. FLOW (GPM)	PR. DROP AT FLOW (PSI)	INLET TEMP. (°F)	OUTLET TEMP. (°F)	CONNECTION SIZE (INCH)		REMARKS
									INLET	OUTLET	
MV-1	LEONARD 170A-LF	BELOW COUNTER LAV/SNK	THERMOSTATIC POINT OF USE	0.5	0.25	2.0	120	110	1/2"	1/2"	PROVIDE ASSE 1070 CERTIFIED POINT OF USE THERMOSTATIC MIXING VALVE WITH WALL MOUNTING BRACKET. PROVIDE BRASS BODY VALVE THAT COMPLES WITH LEAD FREE INSTALLATION REQUIREMENTS.

ROOF / FLOOR DRAIN SCHEDULE		
REF. NO.	DRAIN SPECIFICATION	REMARKS
FD-1	ZURN #E415B CAST IRON FLOOR DRAIN WITH 7" DIAMETER NIKALOY STRAINER, TRAP PRIMER CONNECTION.	PROVIDE 3" P-TRAP TO SUIT. (FINISHED FLOOR AREAS)
IWD-1	ZURN #E40DE CAST IRON FLOOR DRAIN WITH 7" DIAMETER NIKALOY COMBINATION FUNNEL / STRAINER.	PROVIDE 3" P-TRAP TO SUIT. (FINISHED FLOOR AREAS)
RD-1	ZURN #E200-EA CAST IRON LARGE SUMP ROOF DRAIN WITH DECK CLAMP, DRAIN RECESSES AND ALUMINUM DOME.	PROVIDE DRAIN SIZE AS PER PLANS.
OD-1	REFER TO ROOF DETAILS ON ARCHITECTURAL DRAWINGS.	PROVIDE DRAIN SIZE AS PER PLANS.

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Project Number: 5086.3A  
Project Date: 07.12.2019  
Checked By: JRS  
Drawn By: JRM  
Scale: AS NOTED  
Drawing Name: PLUMBING COVER SHEET  
Drawing Number: P001



- GENERAL SHEET KEY NOTES**
1. ALL DEMOLITION WORK TO BE PERFORMED IN ACCORDANCE TO NATIONAL, STATE AND LOCAL STANDARDS AND CODES.
  2. PROVIDE CERTIFIED ROOFING CONTRACTOR TO PERFORM ALL ROOFING WORK TO MAINTAIN EXISTING ROOFING SYSTEM WARRANTY. VERIFY EXISTING ROOFING SYSTEM WARRANTY AND MANUFACTURER'S SPECIAL REQUIREMENTS TO ENSURE WARRANTY IS MAINTAINED THROUGHOUT DEMOLITION AND NEW WORK.
  3. PRIOR TO FINAL FLAGGING OF EQUIPMENT OR PATCHING OF ROOF BY G.C. PROVIDE TEMPORARY SECURE WEATHERPROOF PATCHING OF NEW OR EXISTING OPENINGS. TEMPORARY PATCHING TO BE SAFE, SECURE AND WATER TIGHT TO PREVENT ANY DAMAGE TO INTERNAL SPACES. IF DAMAGE OCCURS TO ANY EXISTING SPACES OR CONSTRUCTION DUE TO DEMOLITION AND/OR TEMPORARY PATCHING, NEW WORK CONTRACTOR IS RESPONSIBLE TO REPAIR/REPLACE ANY DAMAGED COMPONENTS AT NO COST. COORDINATE ALL ROOF WORK WITH G.C.
  4. REFER TO ARCHITECTURAL DEMOLITION DRAWINGS AND NOTES FOR ADDITIONAL REQUIRED WORK AND COORDINATION.
  5. COORDINATE ALL REMOVAL WORK WITH CEILING DEMOLITION WORK. COORDINATE AND VERIFY EXTENT OF G.C. CEILING DEMOLITION WORK PRIOR TO REMOVAL WORK COMMENCING.
  6. PLUMBING CONTRACTOR IS RESPONSIBLE FOR COORDINATION OF REMOVAL OF ALL EQUIPMENT, SYSTEM COMPONENTS, SUPPORTS, ETC. FROM INTERIOR OF BUILDING TO ALLOW FOR ACCESS AND OTHER DEMOLITION TO OCCUR.
  7. SCHEDULE AND OBTAIN APPROVAL FOR ALL SYSTEM SHUTDOWNS WITH OWNER PRIOR TO COMMENCING WITH DEMOLITION WORK.
  8. PATCH ALL EXPOSED AND CONCEALED WALL OPENINGS ASSOCIATED WITH REMOVED PLUMBING SYSTEM COMPONENTS AT COMPLETION OF REMOVAL TO MATCH EXISTING CONSTRUCTION AND MATERIALS. COORDINATE PATCHWORK TIMEFRAME WITH OVERALL GC PRIMING AND PAINTING OF ROOM.
  9. REMOVAL AND STORAGE OF EXISTING CEILING SYSTEMS, GRID SYSTEM, SUPPORT OF LIGHTING FIXTURES, TEMPORARY REMOVAL OF CEILING DEVICES AND REINSTALLATION OF SLUSH TO PERFORM WORK WILL BE THE RESPONSIBILITY OF EACH CONSTRUCTION CONTRACTOR. NOTIFY OWNER OF ANY DAMAGED SUPPORTS AND CEILING MOUNTED DEVICES PRIOR TO THE START OF WORK. THE CONTRACTOR WILL REPLACE ANY DAMAGED SUPPORTS AND CEILING DEVICES AS A RESULT OF THE WORK. COORDINATE WITH OWNER AREAS OF CEILING TO BE REMOVED PRIOR TO START OF WORK.

- DEMOLITION KEY NOTES**
1. REMOVE EXISTING RAINWATER CONDUCTOR PIPING IN ITS ENTIRETY TO EXTENTS INDICATED ON PLAN. REFER TO NEW WORK PLAN FOR NEW PIPE ROUTING.

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Project Name  
 Additions, Alterations  
 and Renovations at  
 Northern Burlington  
 County Regional High  
 School - Phase 1

Project Owner Name  
 Northern Burlington  
 County Regional  
 School District

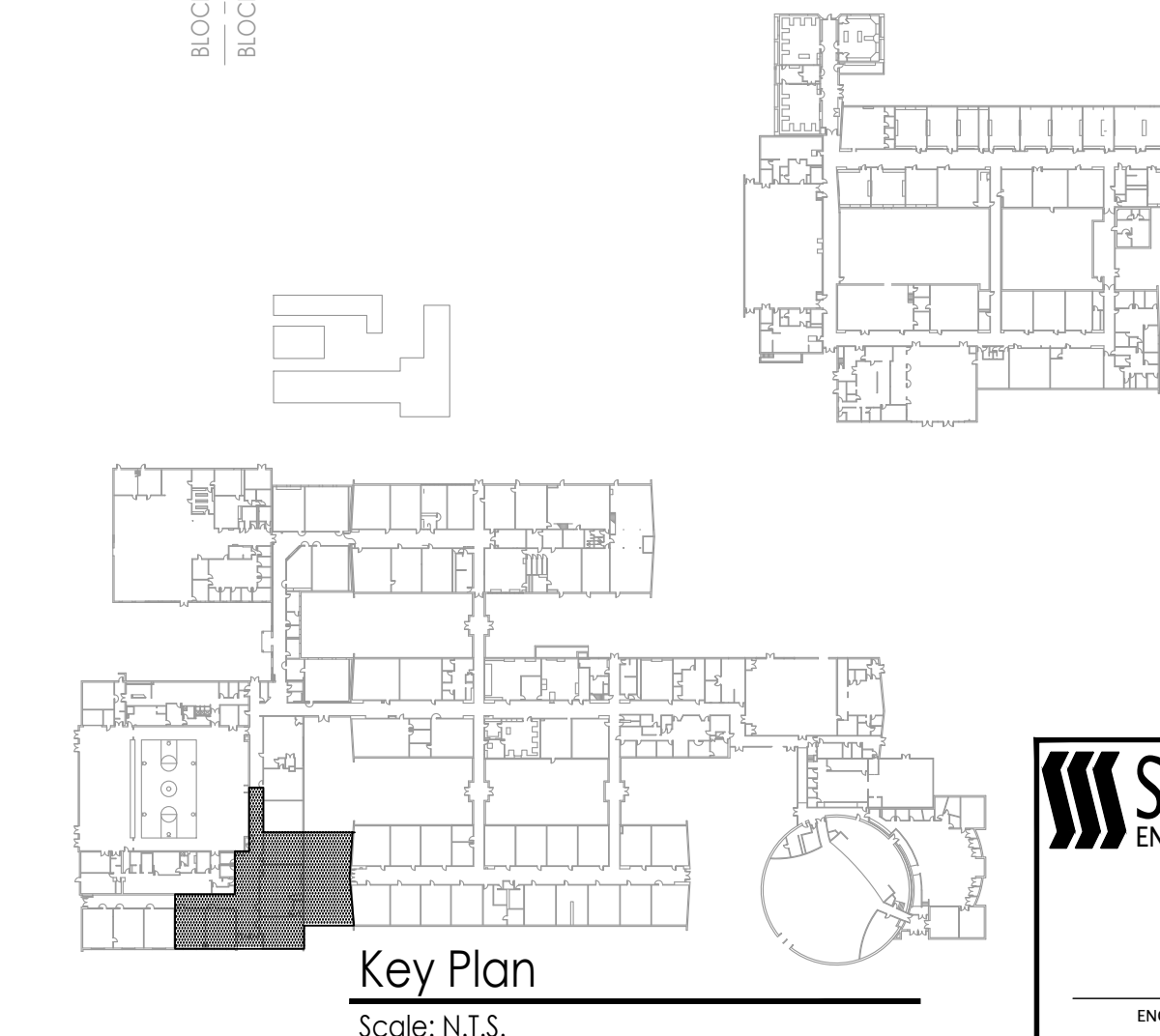
Project Location  
 160 Mansfield Rd. East,  
 Columbus, NJ 08022

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 JRS  
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 JRM  
 Scale  
 AS NOTED

Drawing Name  
 PLUMBING  
 DEMOLITION -  
 BLOCK 'A' -  
 SANITARY

Revisions		
No.	Date	Description

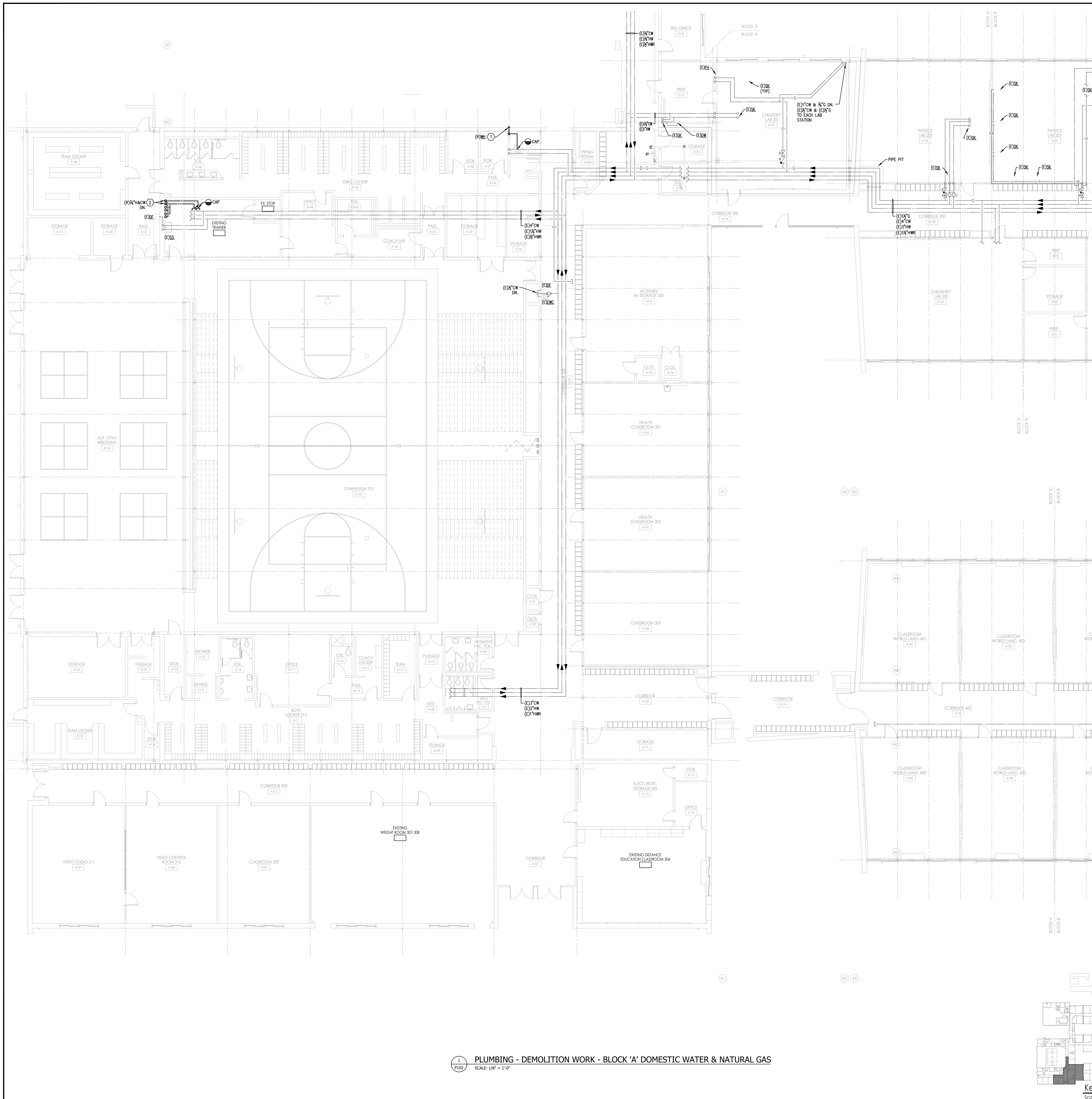
Drawing Number  
**P101**



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- GENERAL SHEET KEY NOTES**
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- DEMOLITION KEY NOTES**
- DISCONNECT AND REMOVE EXISTING WALL HYDRANT AND ASSOCIATED PIPING BACK TO EXTENT(S) INDICATED ON PLAN.
  - REMOVE EXISTING PIPING IN ITS ENTIRETY INCLUDING VALVES, HANGERS AND ACCESSORIES TO EXTENTS INDICATED ON PLANS.

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Project Name  
Additions, Alterations and Renovations at Northern Burlington County Regional High School - Phase 1

Project Owner Name  
Northern Burlington County Regional School District

Project Location  
160 Mansfield Rd. East, Columbus, NJ 08022

Project Number  
5086.3A

Project Date  
07.12.2019

Checked By  
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Scale  
AS NOTED

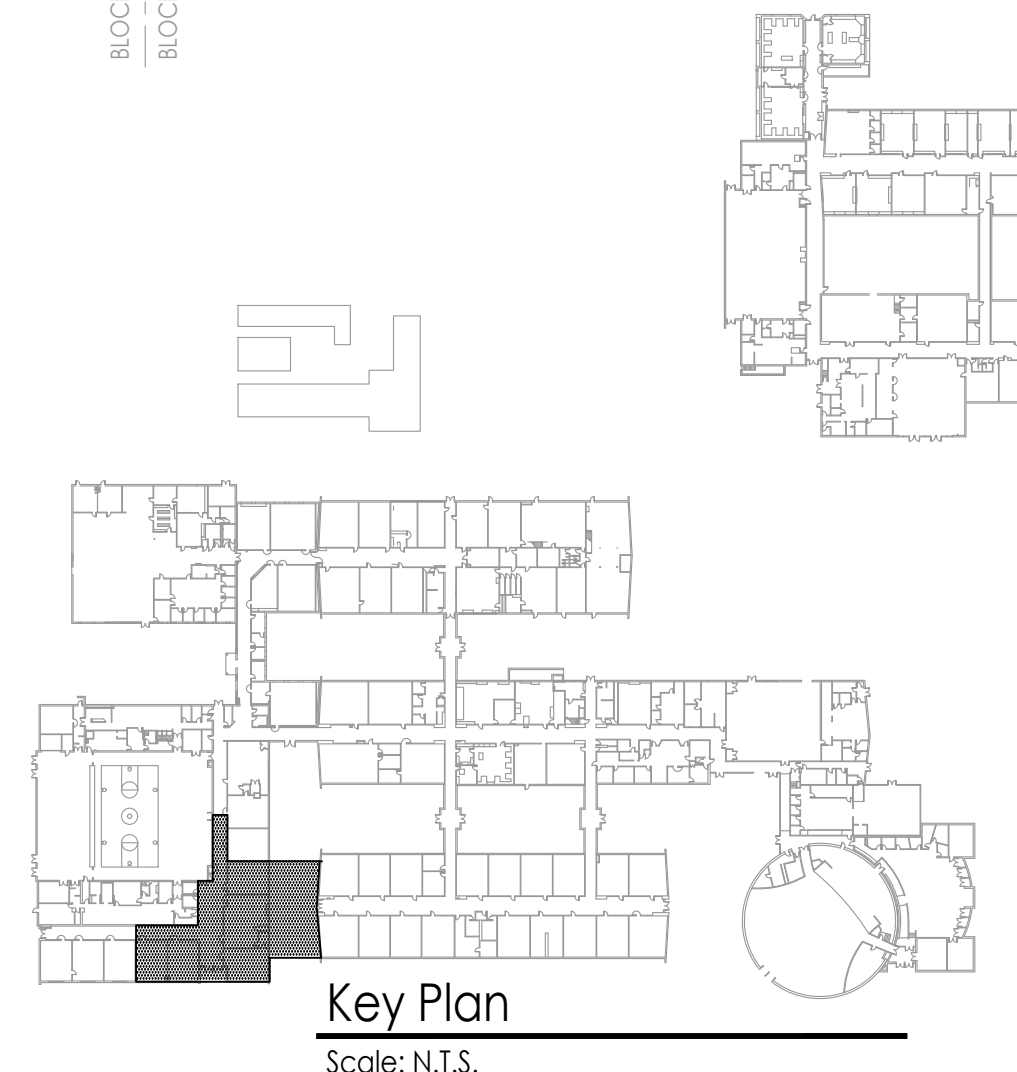
Drawing Name  
PLUMBING DEMOLITION - BLOCK 'A' - DOMESTIC WATER

Revisions

No.	Date	Description

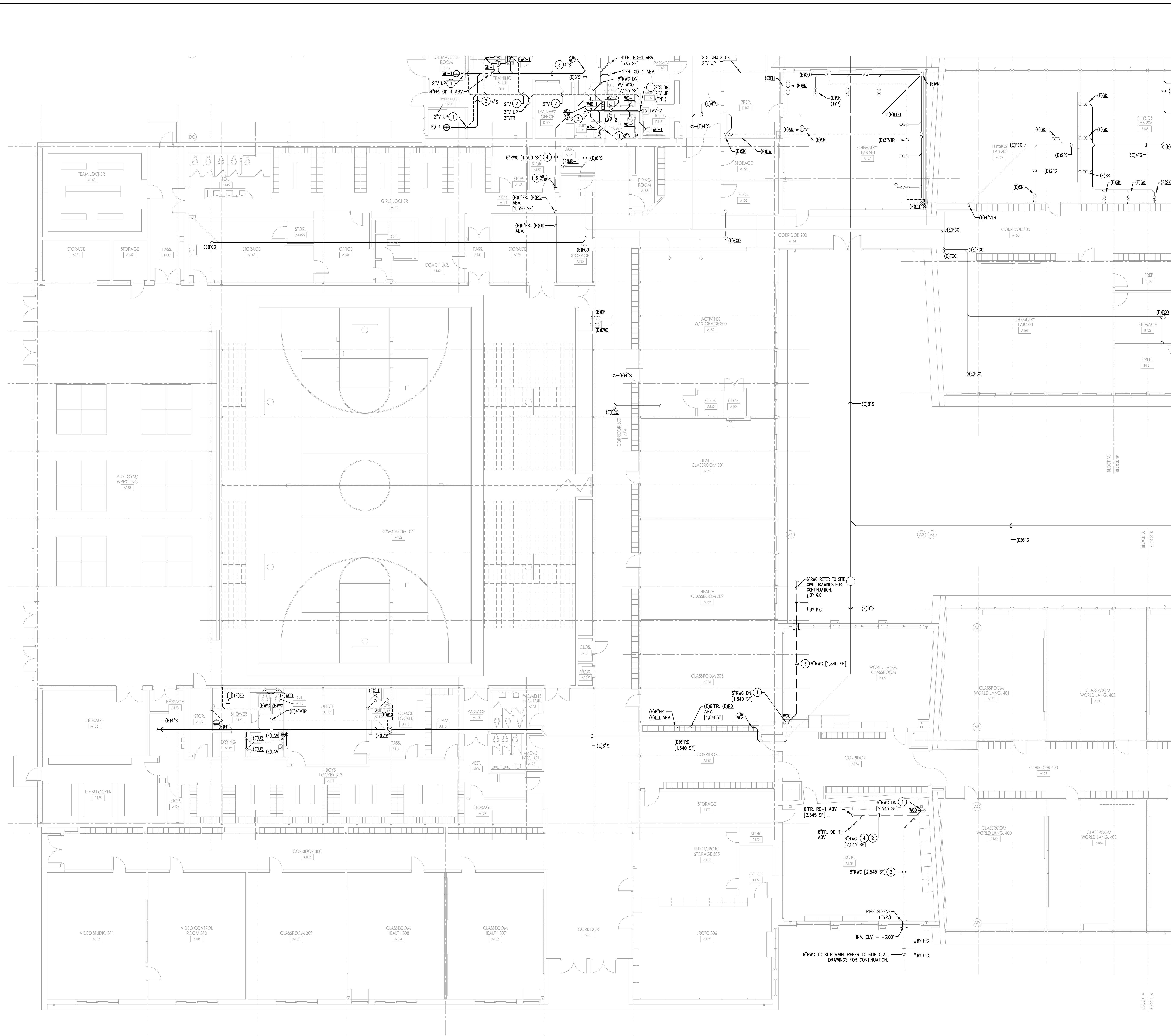
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**P102**

1 PLUMBING - DEMOLITION WORK - BLOCK 'A' DOMESTIC WATER & NATURAL GAS  
SCALE: 1/8" = 1'-0"



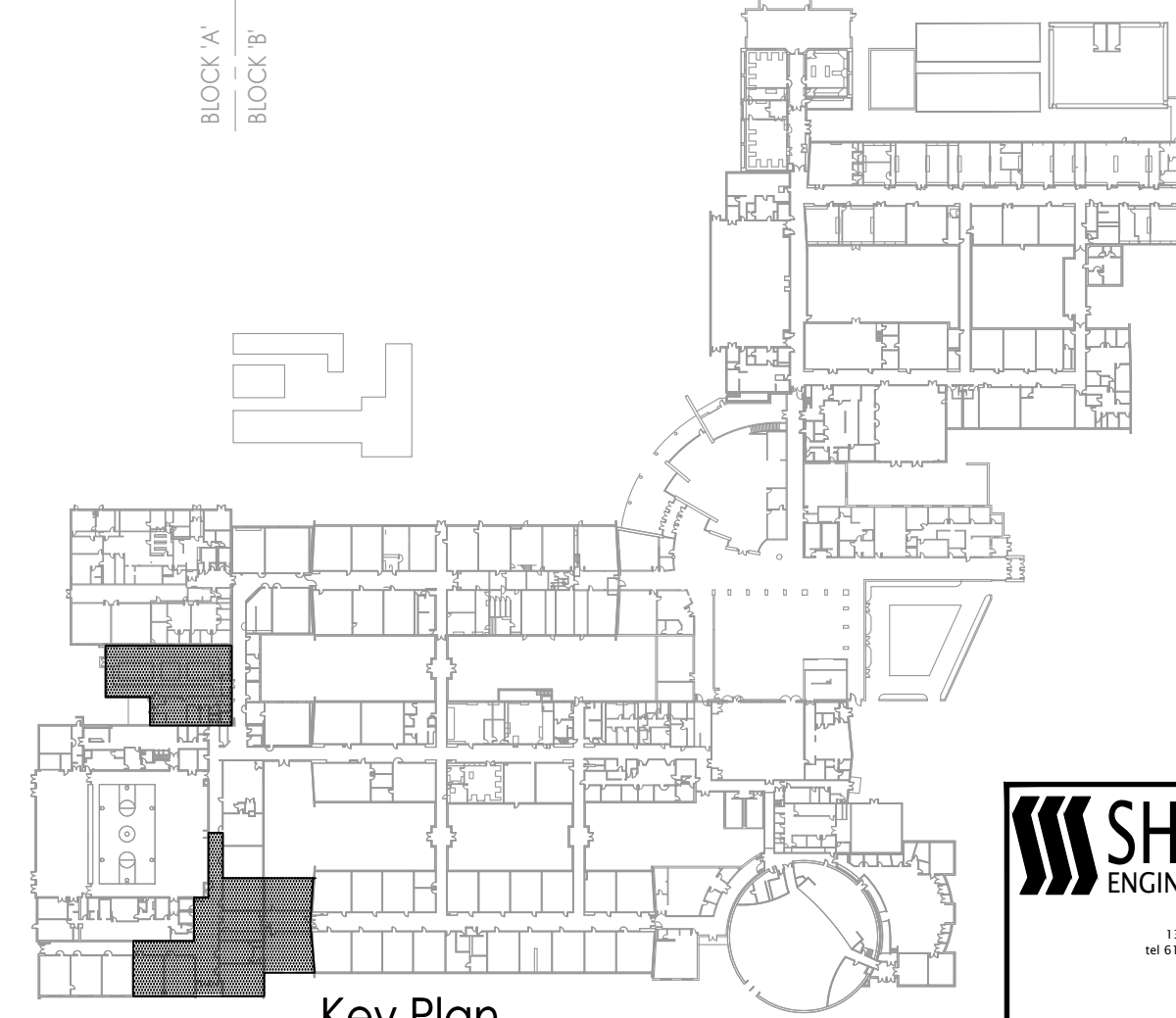
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DRAWN BY: JRM  
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- NEW WORK KEY NOTES**
- ROUTE PIPING IN NEW WALL/CHASE ENCLOSURE.
  - ROUTE PIPING ABOVE CEILING.
  - ROUTE PIPING BELOW SLAB.
  - ROUTE PIPING HIGH TIGHT TO STRUCTURE.
  - REMOVE EXISTING RAINWATER CONDUCTOR PIPING TO EXTENTS INDICATED. PROVIDE NEW PIPE ROUTING AS INDICATED. COORDINATE NEW ROUTING WITH ALL OTHER EXISTING/NEW TRADEWORK IN THIS AREA.

**1 PLUMBING - NEW WORK - BLOCK 'A' SANITARY**  
 SCALE: 1/8" = 1'-0"  
 F.F. ELEV. = 0.00'



Key Plan  
Scale: N.T.S.

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 GEORGE R. DUTHE JR., AIA, PP  
 NJ: 2140769600

**FVHHD** architects planners  
**Fraytak Veisz Hopkins Duthe P C**  
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628  
 Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 19453

Project Name  
**Additions, Alterations and Renovations at Northern Burlington County Regional High School - Phase 1**

Project Owner Name  
**Northern Burlington County Regional School District**

Project Location  
**160 Mansfield Rd. East, Columbus, NJ 08022**

Project Number  
**5086.3A**  
 Project Date  
**07.12.2019**  
 Checked By  
**JRS**  
 Drawn By  
**JRM**  
 Scale  
**AS NOTED**

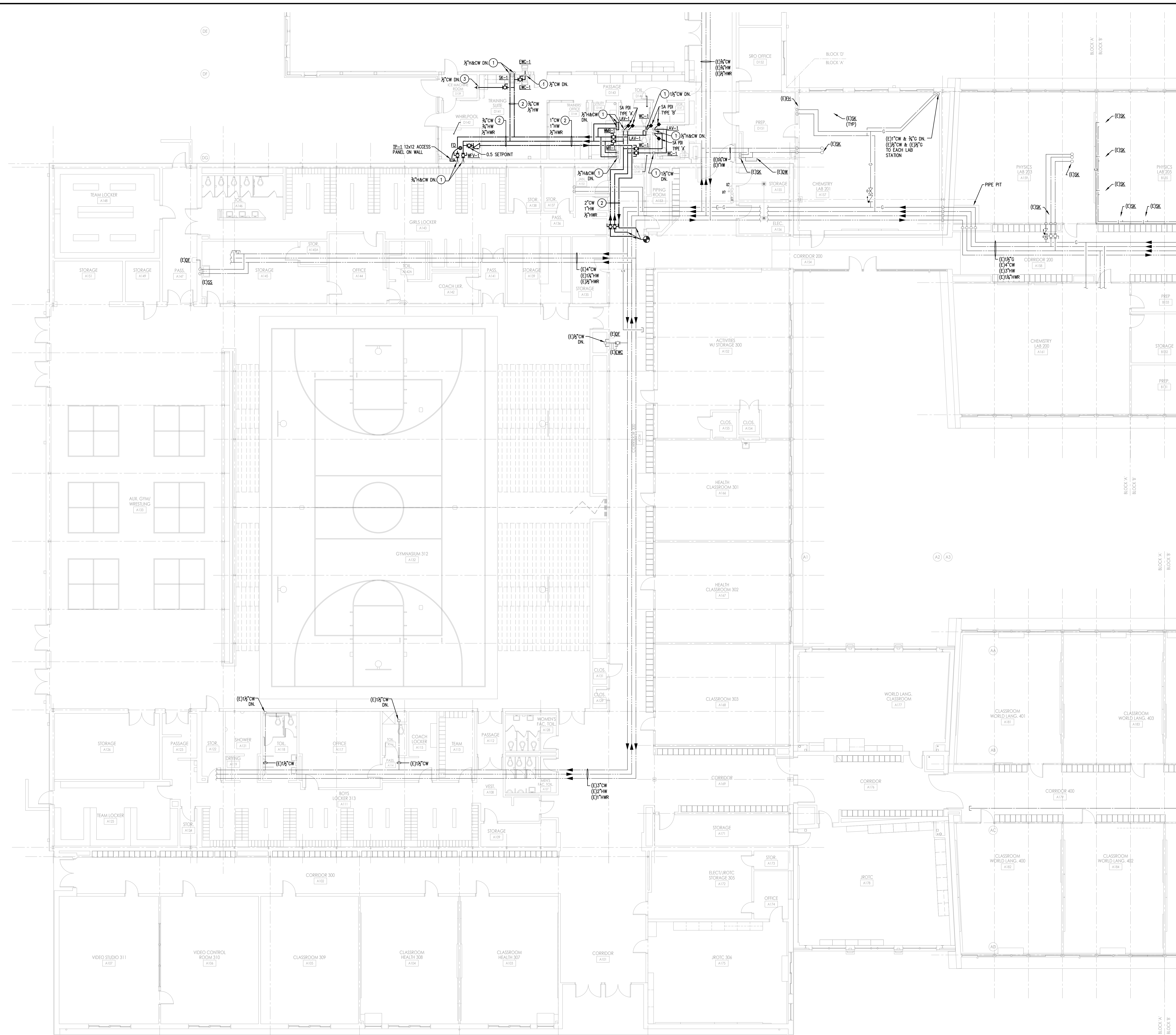
Drawing Name  
**PLUMBING NEW WORK - BLOCK 'A' - SANITARY**

Revisions		
No.	Date	Description

Drawing Number  
**P201**

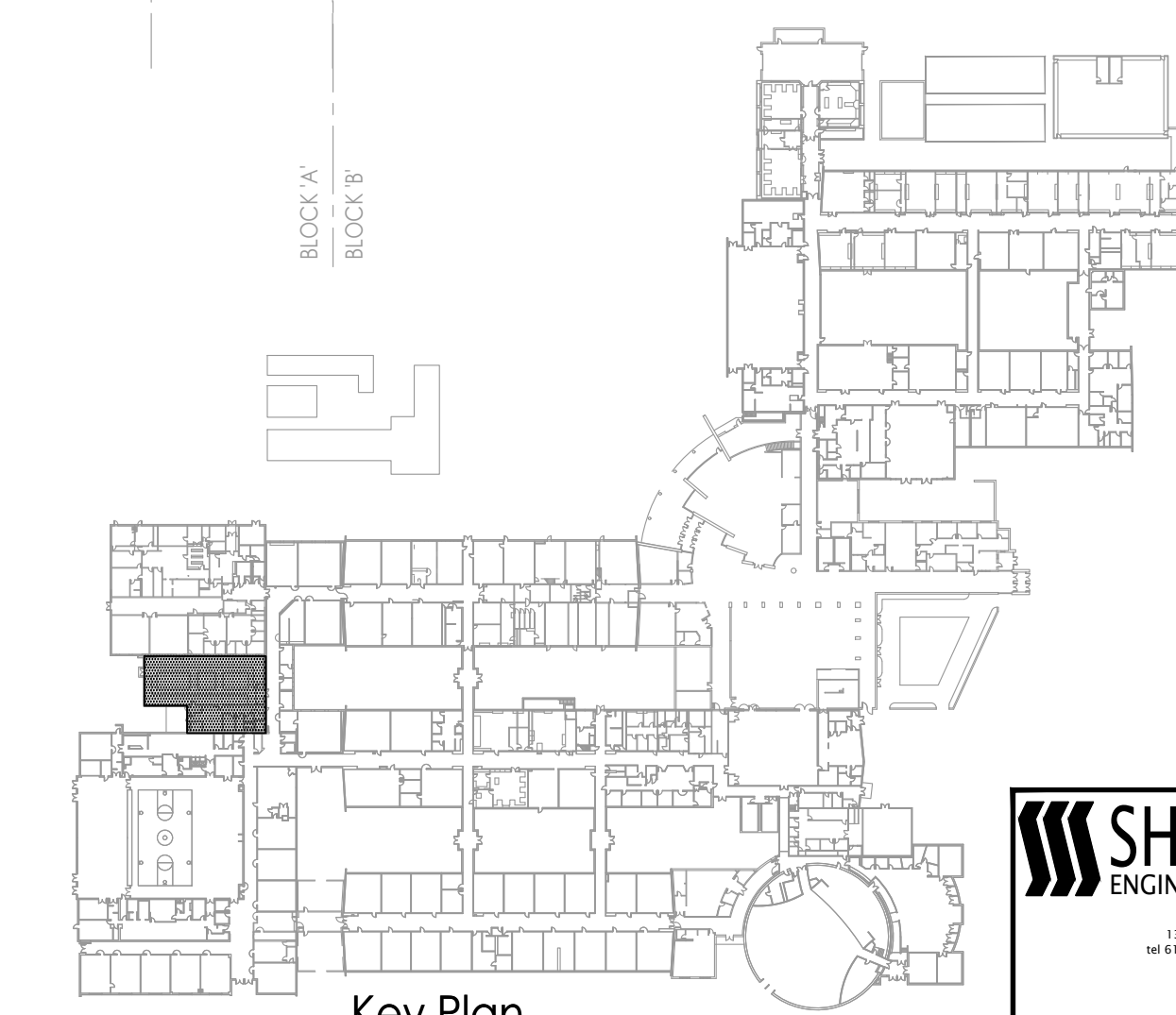






- NEW WORK KEY NOTES**
- ROUTE PIPING IN NEW WALL/CHASE ENCLOSURE.
  - ROUTE PIPING ABOVE CEILING.
  - ROUTE PIPING DOWN IN WALL TO ICE MACHINE. PROVIDE ALL ASSOCIATED PIPING, SUPPORTS, PRESSURE REDUCING VALVE AND FILTER FOR COMPLETE CONNECTION TO ICE MACHINE.

**1** PLUMBING - NEW WORK - BLOCK 'A' DOMESTIC WATER & NATURAL GAS  
 SCALE: 1/8" = 1'-0"



**SHARPE ENGINEERING, INC.**  
 Mechanical Engineering  
 160 Mansfield Rd., East, Columbus, NJ 08022  
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 www.sharpe-engineering.com  
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DATE: 7-12-2019  
 ENGINEER: JOHN E. SHARPE, P.E.  
 NJ Lic. No. 24620425000

**FVHHD** architects planners  
**Fraytak Veisz Hopkins Duthe P C**  
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628  
 Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 19453

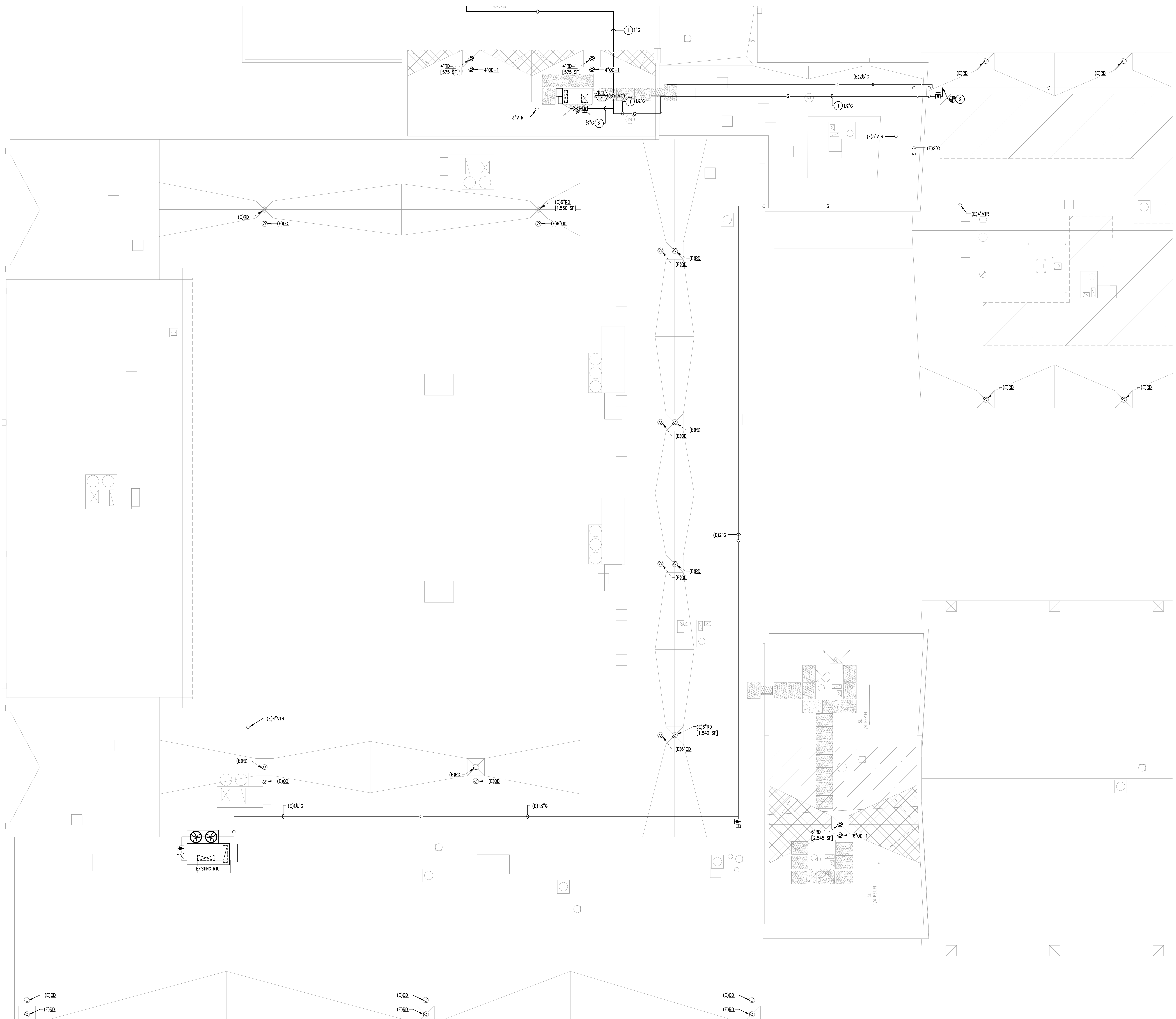
Project Name: Additions, Alterations and Renovations at Northern Burlington County Regional High School - Phase 1  
 Project Owner Name: Northern Burlington County Regional School District  
 Project Location: 160 Mansfield Rd, East, Columbus, NJ 08022  
 Project Number: 5086.3A  
 Project Date: 07.12.2019  
 Checked By: JRS  
 Drawn By: JRM  
 Scale: AS NOTED  
 Drawing Name: PLUMBING NEW WORK - BLOCK 'A' - DOMESTIC WATER & NATURAL GAS

JOHN J. VEISZ, AIA, CSBA  
 NJ: 210036901 PA: RA010198  
 WILLIAM D. HOPKINS III, AIA, LEED AP  
 NJ: 210070000 PA: RA025000  
 GEORGE R. DUTHE, JR., AIA, PP  
 NJ: 210070000

Architect: **William D. Veisz**  
 Date: 7/12/19  
 F V H D P C C O M

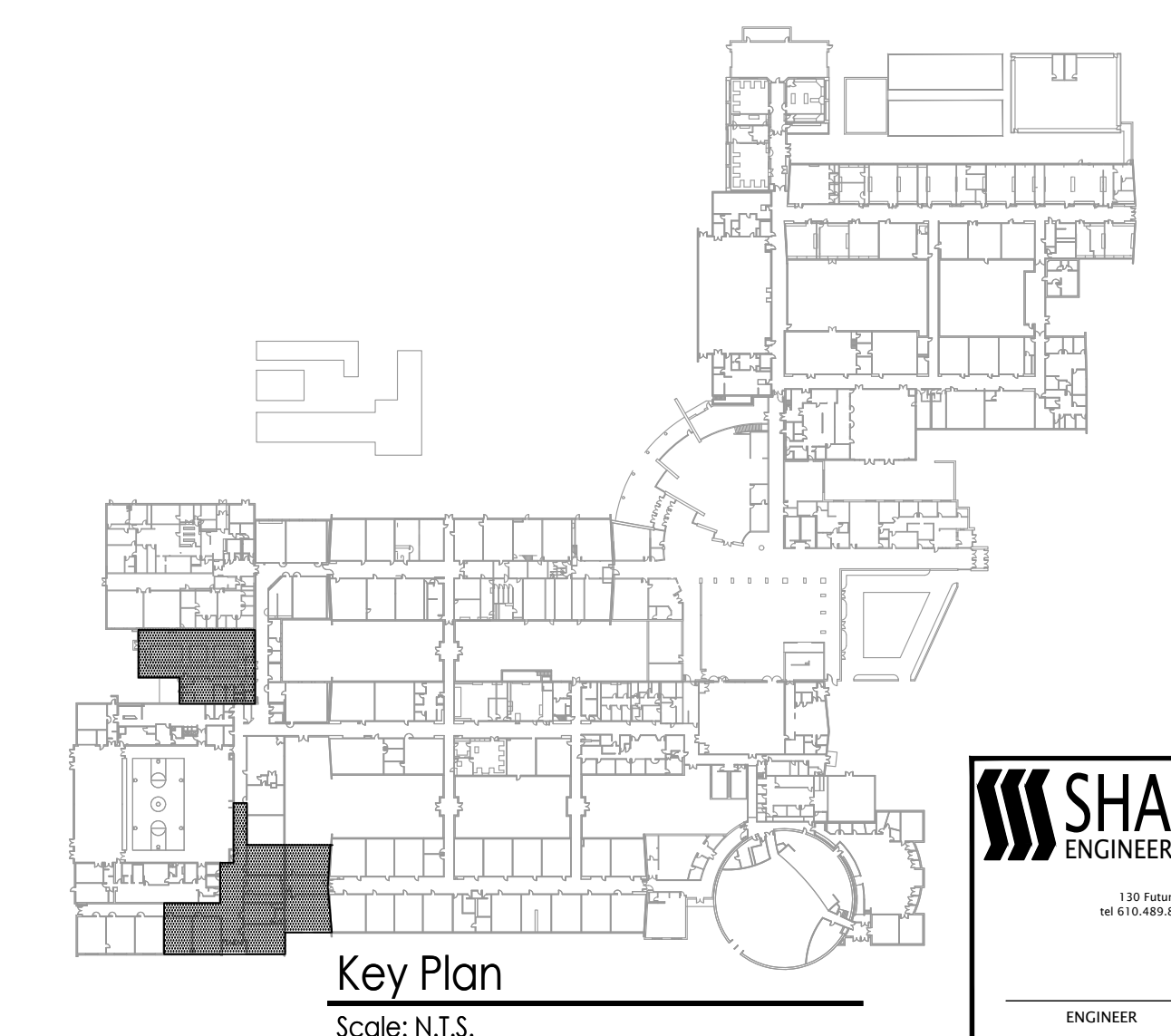
Revisions	No.	Date	Description

Drawing Number: **P203**



- GENERAL SHEET NOTE**
1. RAINFALL RATE BASED ON 5.0" PER HOUR FOR NORTHERN BURLINGTON, NEW JERSEY.
  2. NUMBER PROVIDED IN BRACKETS [XXX] DESIGNATES AREA OF DRAINAGE.
  3. ALL STORM PIPING TO BE SLOPED AT 0.1 (1/8" PER FOOT), UNLESS NOTED OTHERWISE.
- NEW WORK KEY NOTES**
- ① ROUTE GAS PIPING ON ROOF. PROVIDE PROPER PIPE SUPPORTS FOR ROOFTOP GAS PIPING. REFER TO DETAIL. COORDINATE PIPE ROUTING WITH ALL OTHER EXISTING/NEW TRADE WORK. PROVIDE ALL NECESSARY PIPING, FITTINGS, ETC. FOR GAS PIPE ROUTING TO NEW ROOFTOP EQUIPMENT.
  - ② MAKE SAFE, VALVE OFF GAS MAIN TO FACILITATE THE CONNECTION OF NEW GAS PIPING. COORDINATE WITH THE OWNER THE SHUT DOWN OF GAS SYSTEM.

**1 PLUMBING - NEW WORK - BLOCK 'A' ROOF**  
 SCALE: 1/8" = 1'-0"



**SHARPE ENGINEERING, INC.**  
 1000...  
 ENGINEER: JOHN E. SHARPE, P.E.  
 DATE: 7-12-2019  
 NJ Lic. No. 24620425000

**FVHHD architects planners**  
**Fraytak Veisz Hopkins Duthe P C**  
 Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628  
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JOHN J. VEISZ, AIA, CSBA  
 NJ-214036970 PA-RAD0189  
 WILLIAM D. HOPKINS III, AIA, LEED AP  
 NJ-214070600 PA-RAD02000  
 GEORGE R. DUTHE, JR., AIA, PP  
 NJ-214070690

Abstract: 7/12/19  
 Date

F V H D P C O M

Project Name  
 Additions, Alterations and Renovations at Northern Burlington County Regional High School - Phase 1

Project Owner Name  
 Northern Burlington County Regional School District

Project Location  
 160 Mansfield Rd, East, Columbus, NJ 08022

Project Number  
**5086.3A**

Project Date  
**07.12.2019**

Checked By  
**JRS**

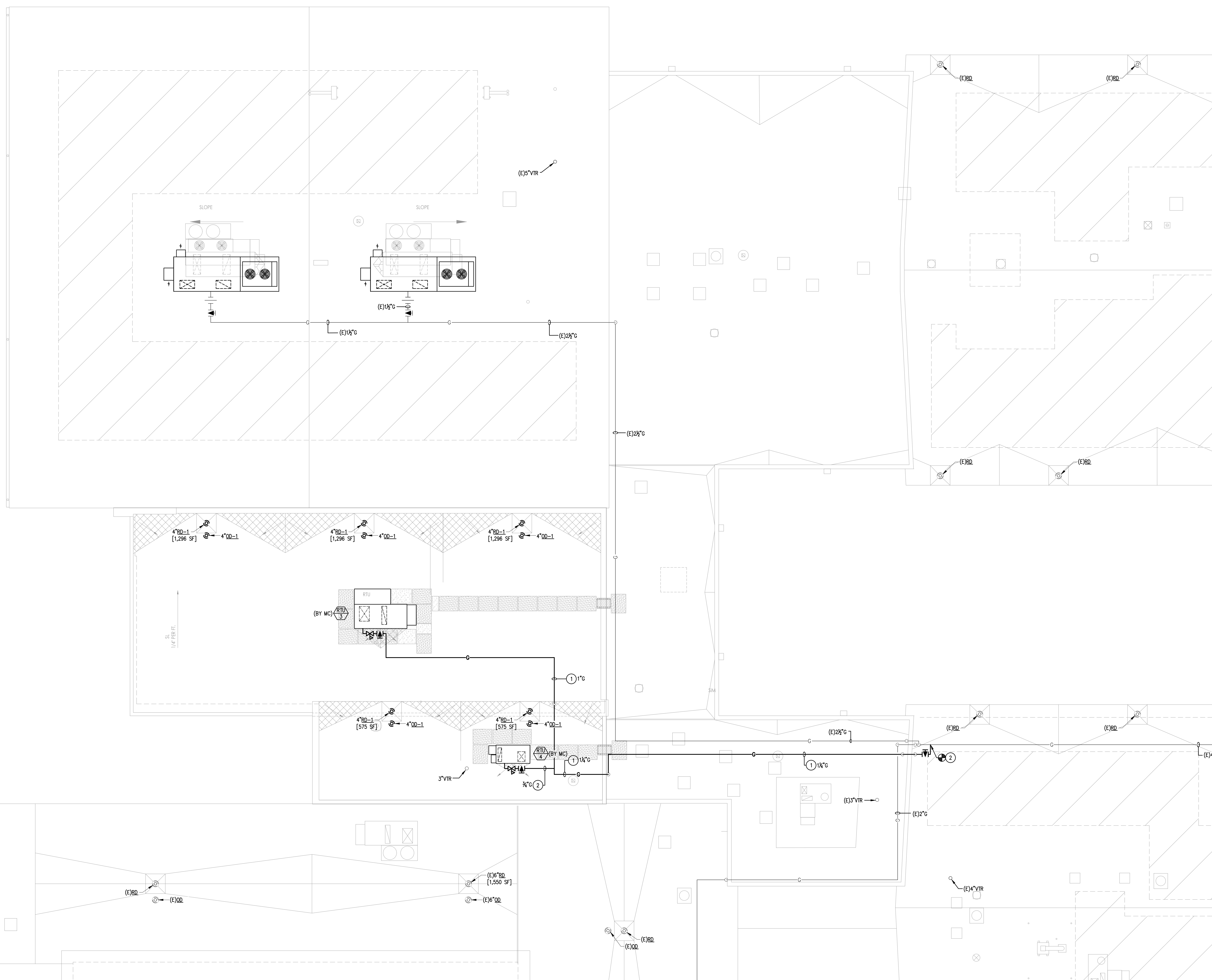
Drawn By  
**JRM**

Scale  
**AS NOTED**

Drawing Name  
**PLUMBING NEW WORK - BLOCK 'A' - ROOF PLAN**

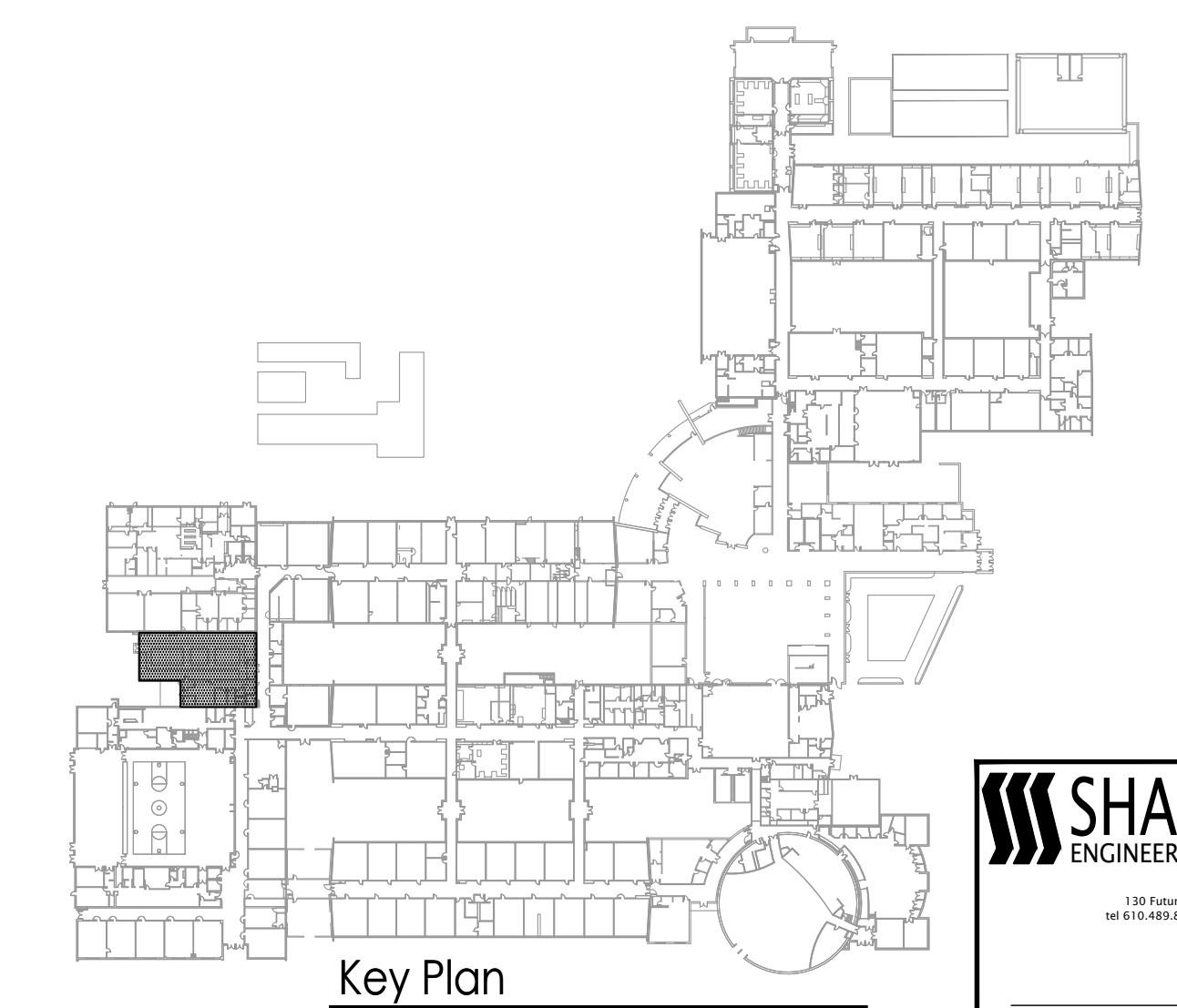
Revisions	No.	Date	Description
	1	3.8.2019	Addendum 4

Drawing Number  
**P204**



1 PLUMBING - NEW WORK - BLOCK 'D' ROOF  
SCALE: 1/8" = 1'-0"

- GENERAL SHEET NOTE**
1. RAINFALL RATE BASED ON 5.0" PER HOUR FOR NORTHERN BURLINGTON, NEW JERSEY.
  2. NUMBER PROVIDED IN BRACKETS [XXX] DESIGNATES AREA OF DRAINAGE.
  3. ALL STORM PIPING TO BE SLOPED AT 0.1 (1/8" PER FOOT), UNLESS NOTED OTHERWISE.
- NEW WORK KEY NOTES**
1. ROUTE GAS PIPING ON ROOF, PROVIDE PROPER PIPE SUPPORTS FOR ROOFTOP GAS PIPING, REFER TO DETAIL. COORDINATE PIPE ROUTING WITH ALL OTHER EXISTING NEW TRADE WORK. PROVIDE ALL NECESSARY PIPING, FITTINGS, ETC. FOR GAS PIPE ROUTING TO NEW ROOFTOP EQUIPMENT.
  2. MAKE SAFE. VALVE OFF GAS MAIN TO FACILITATE THE CONNECTION OF NEW GAS PIPING. COORDINATE WITH THE OWNER'S SHUT DOWN OF GAS SYSTEM.



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DATE: 7-12-2019  
ENGINEER: JOHN E. SHARPE, P.E.  
NJ Lic. No.: PE000425100

**FVH D**  
architects  
planners

**Fraytak Veisz Hopkins Duthe P C**  
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628  
Pennsylvania: 140 Whitaker Ave - Mont Clear - Pennsylvania 19453

F V H D P C . C O M

7/12/19  
Date

John J. Vesiz, AIA, CSBA  
NJ: 214036991 PA: PA010819

William D. Hopkins III, AIA, LEED AP  
NJ: 214070600 PA: PA0215200

George R. Duthe, Jr., AIA, PP  
NJ: 214070600

William D. Veisz  
Architect

Project Name  
Additions, Alterations  
and Renovations at  
Northern Burlington  
County Regional High  
School - Phase 1

Project Owner Name  
Northern Burlington  
County Regional  
School District

Project Location  
160 Mansfield Rd, East,  
Columbus, NJ 08022

Project Number  
5086.3A

Project Date  
07.12.2019

Checked By  
JRS

Drawn By  
JRM

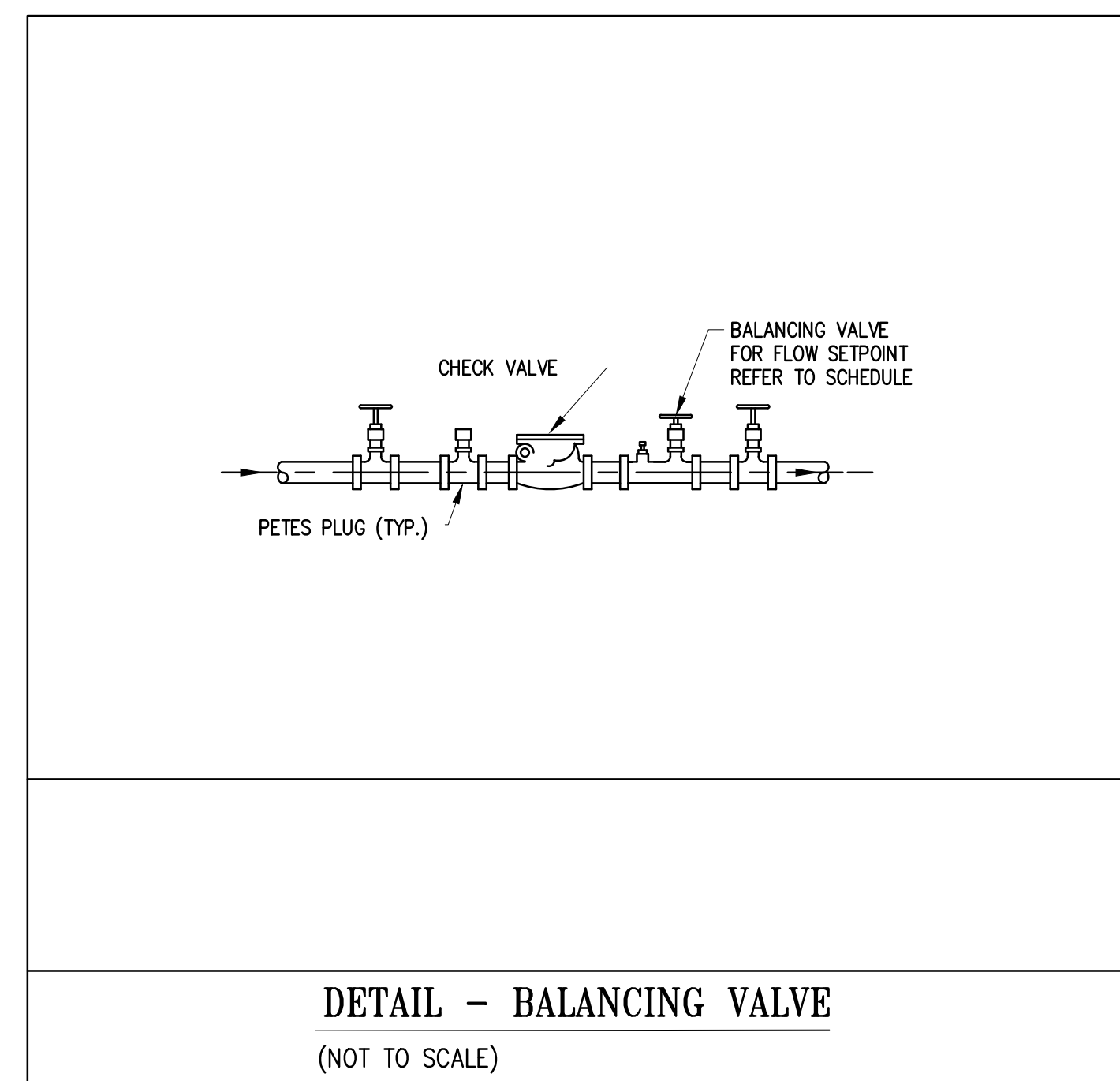
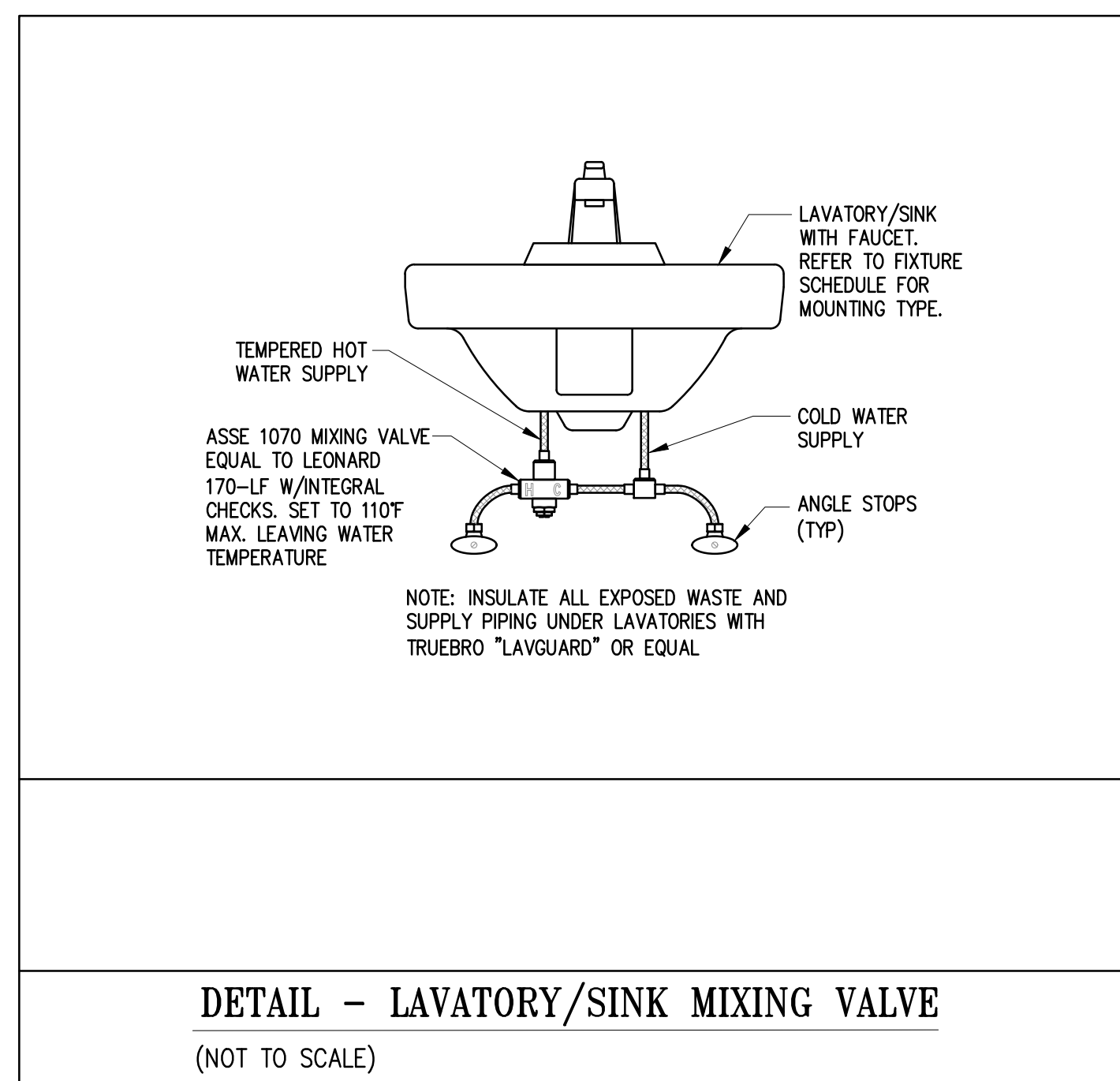
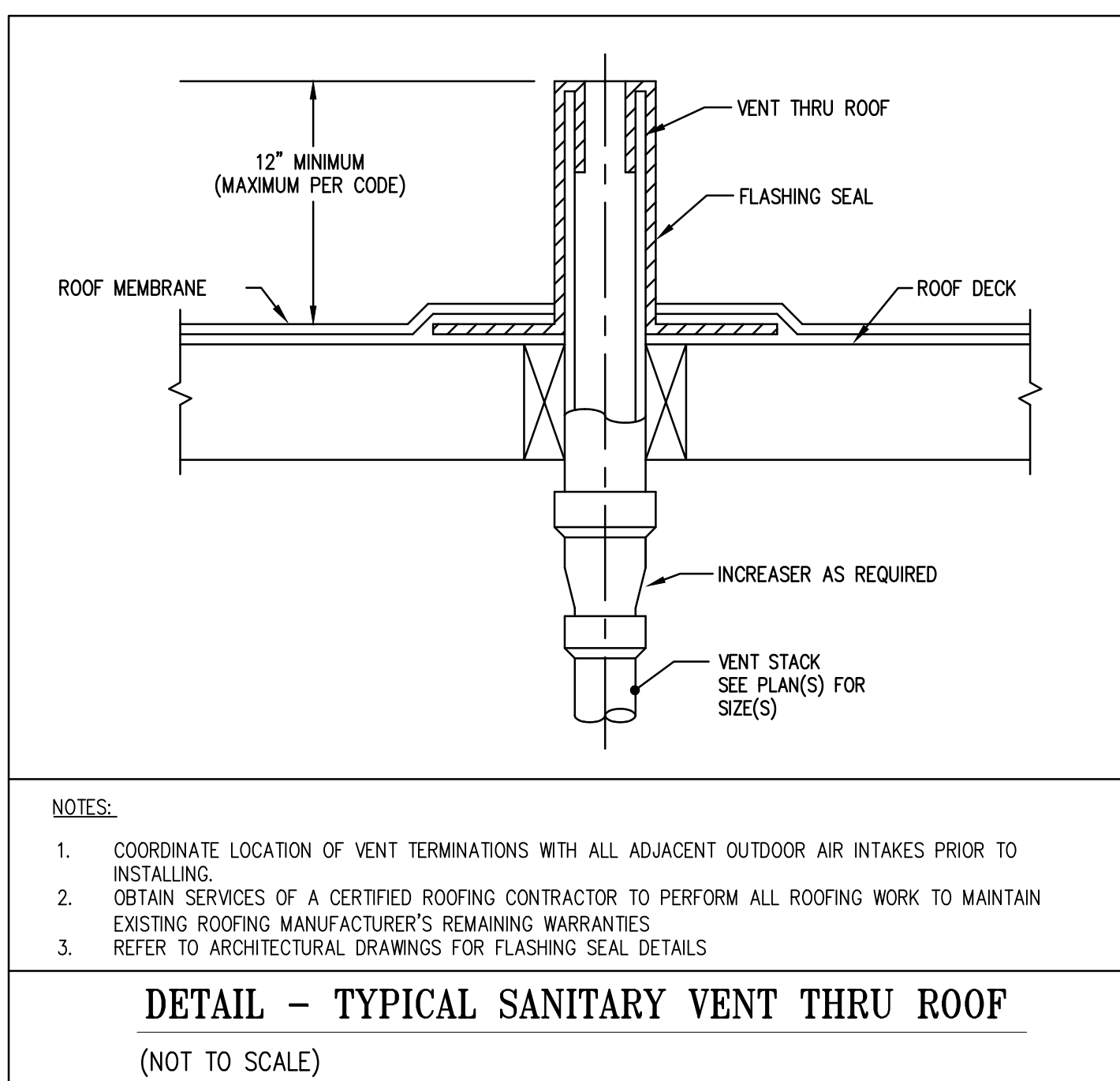
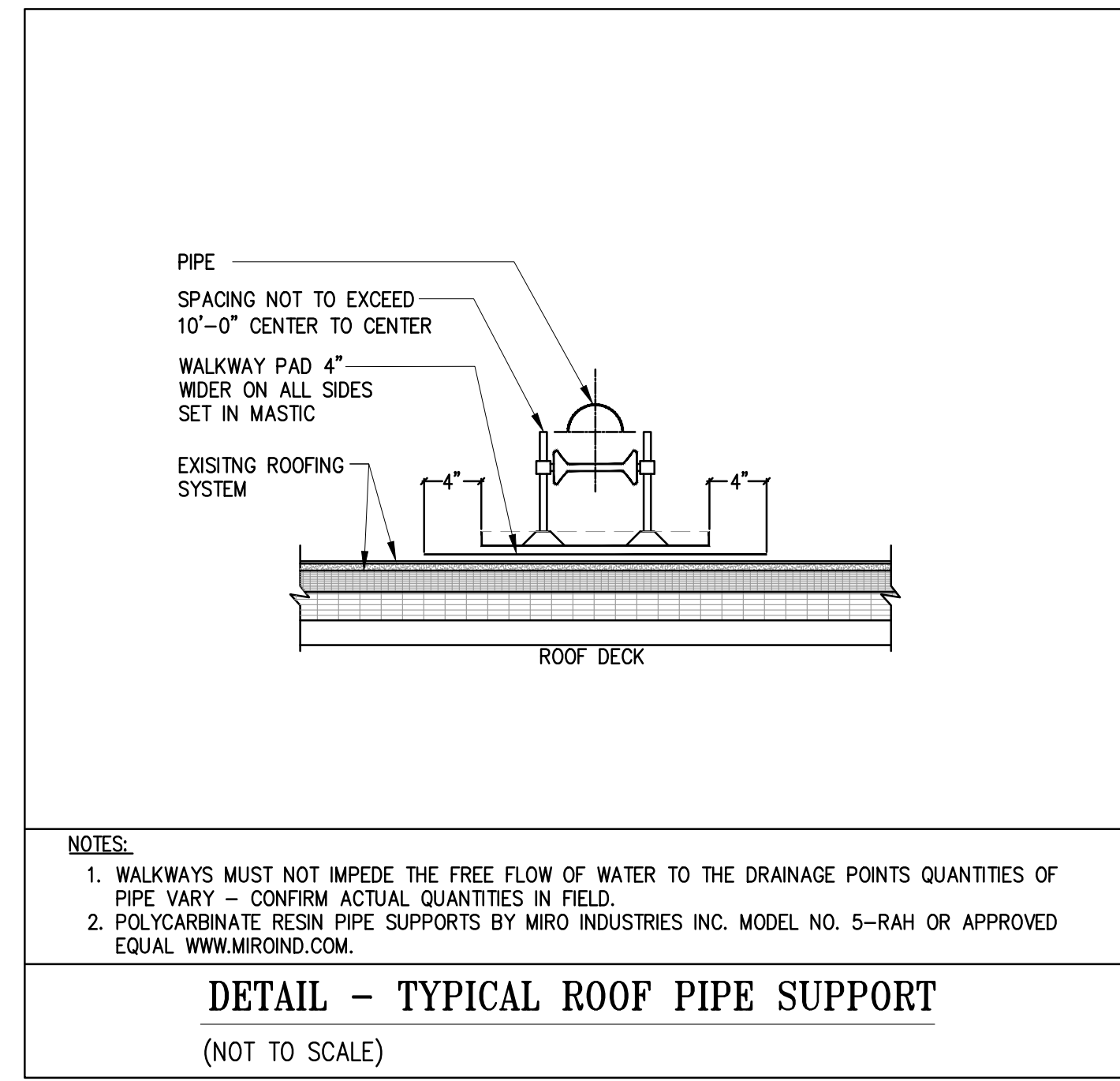
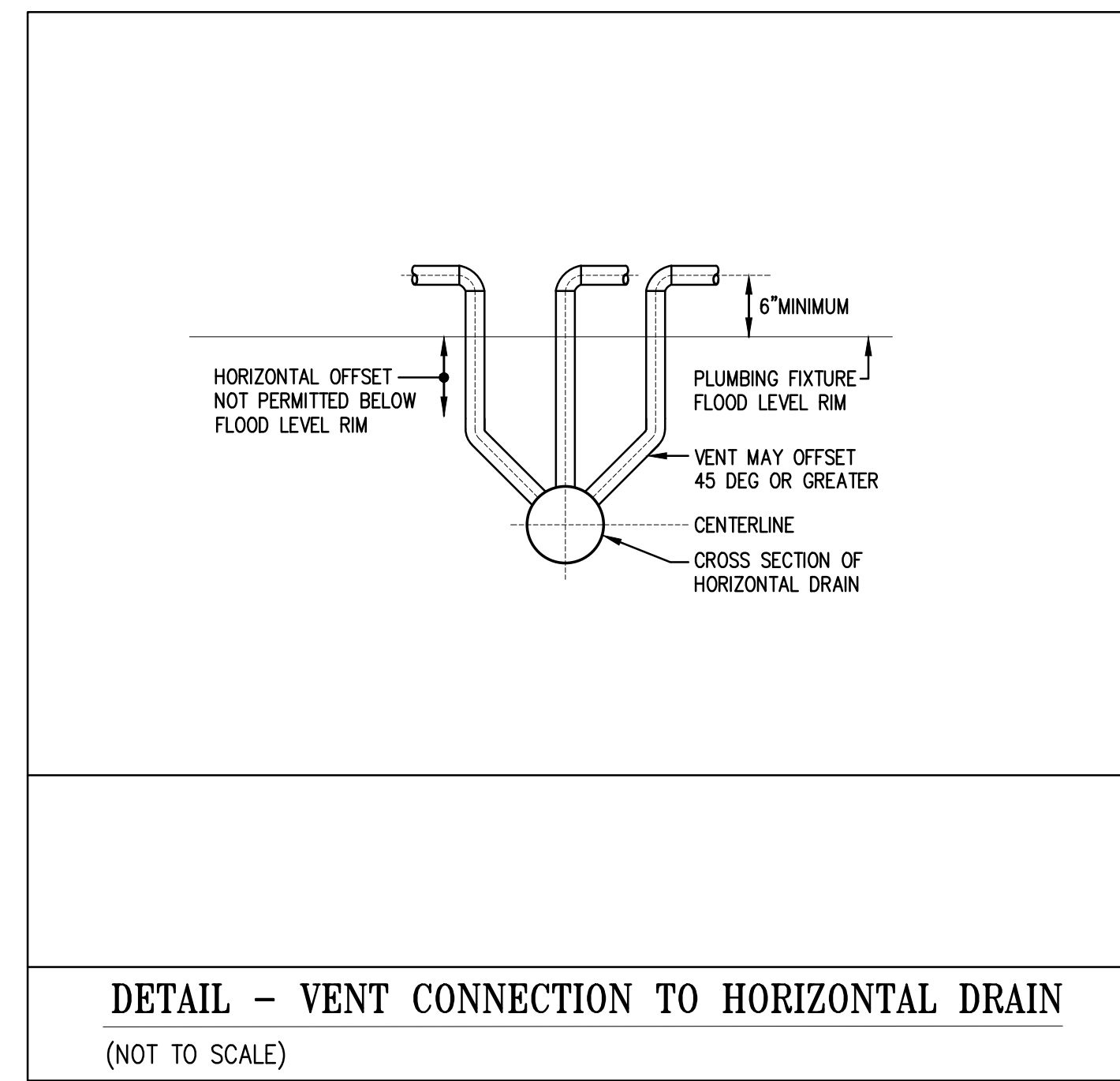
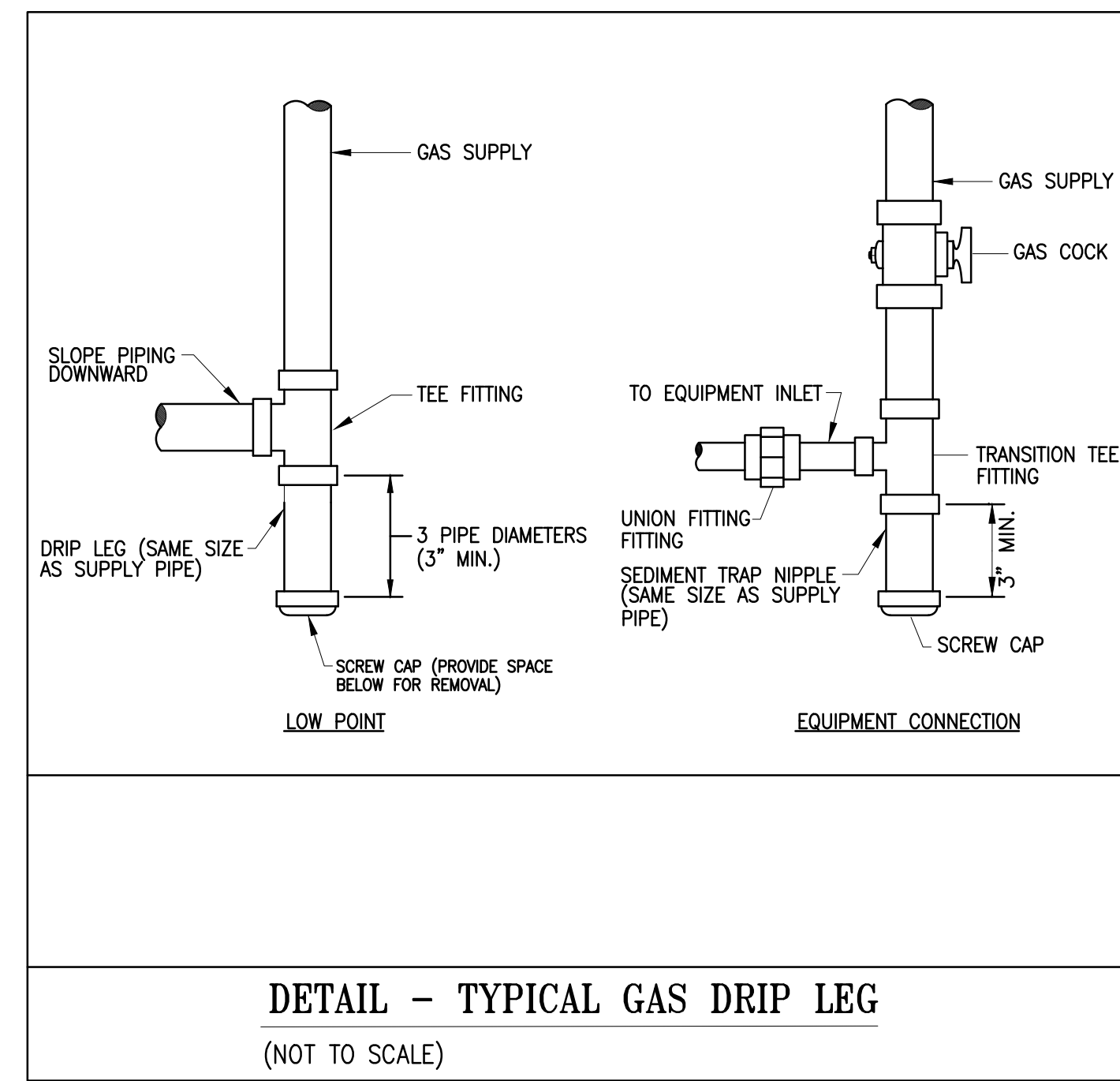
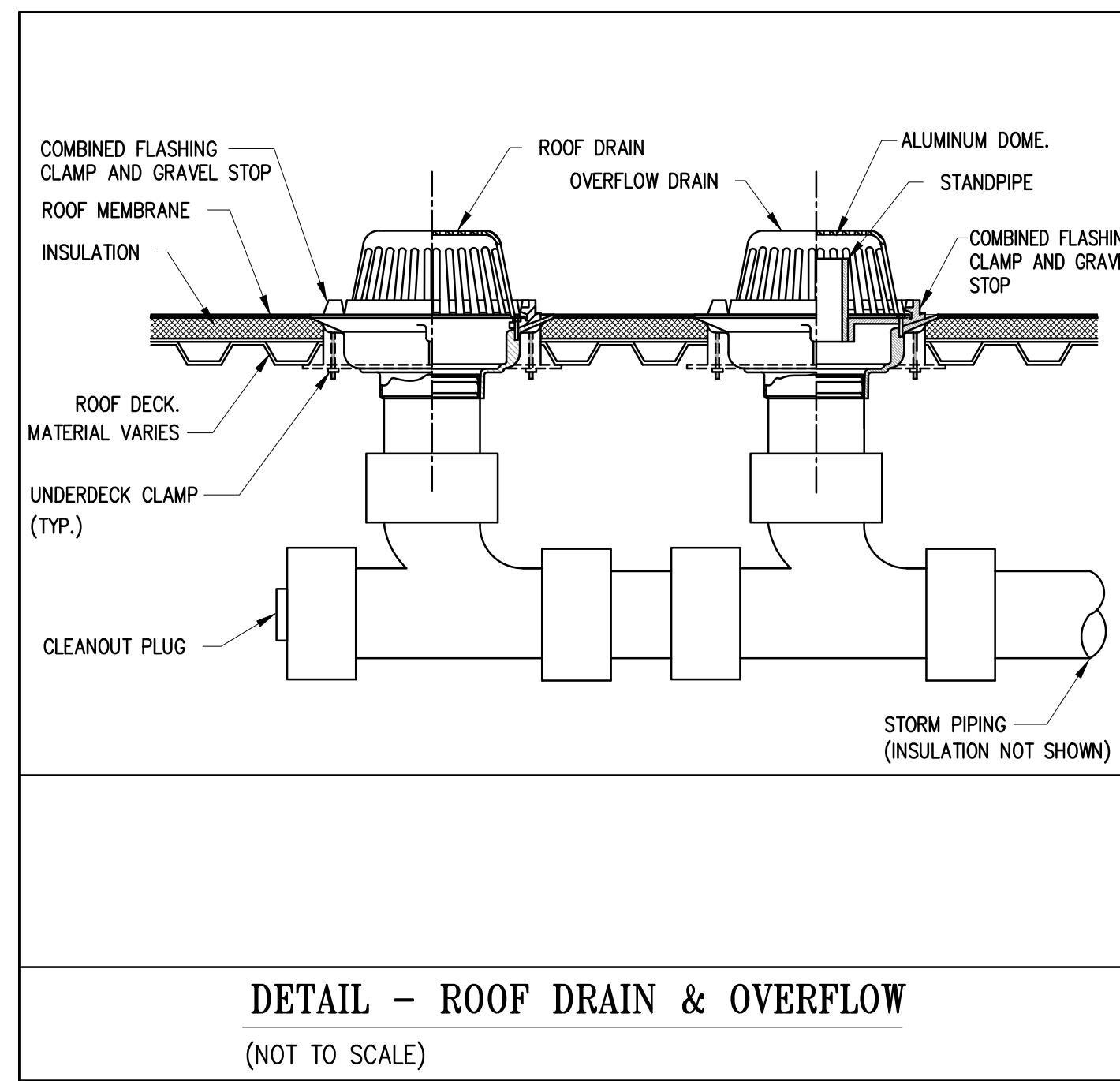
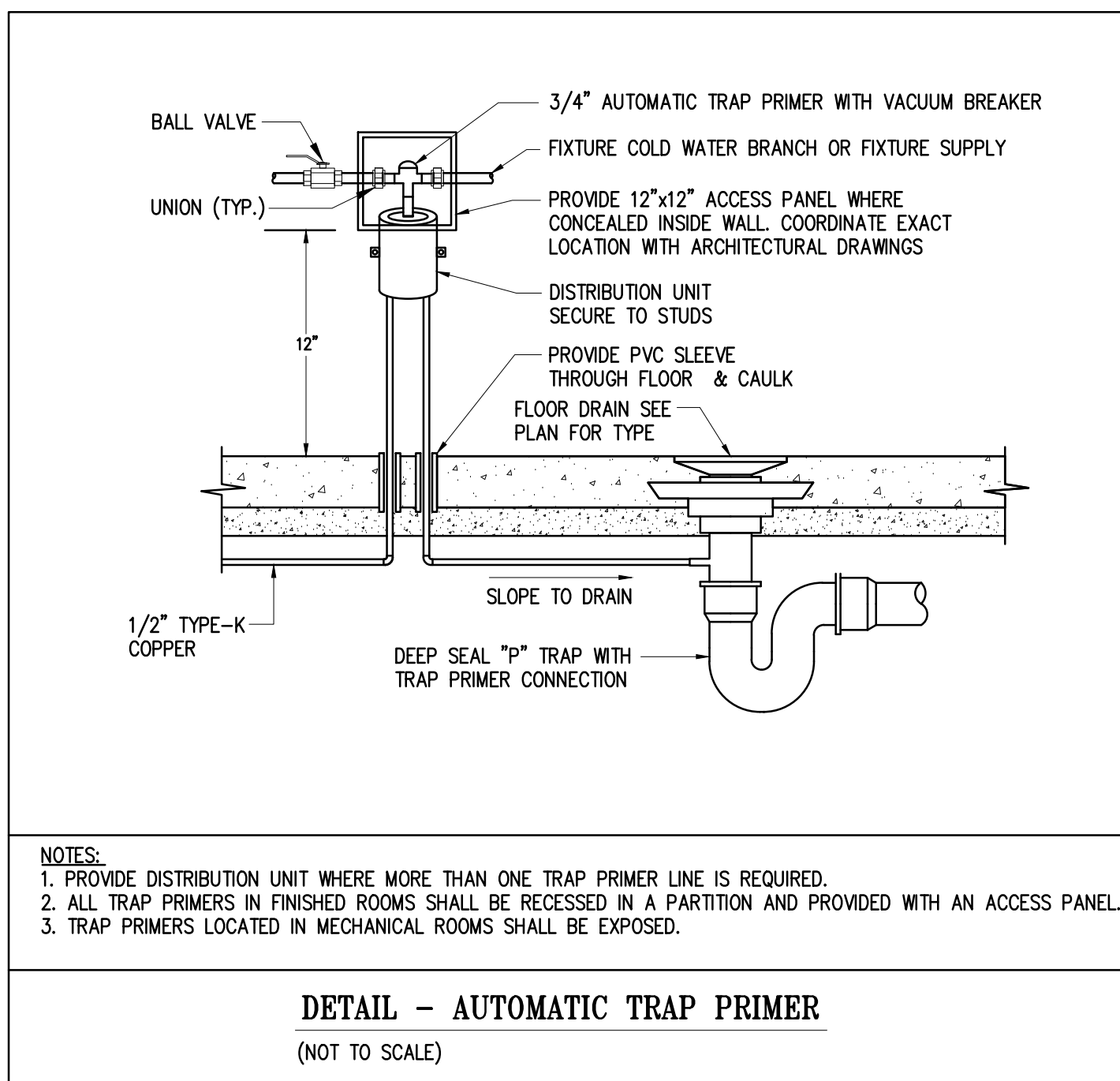
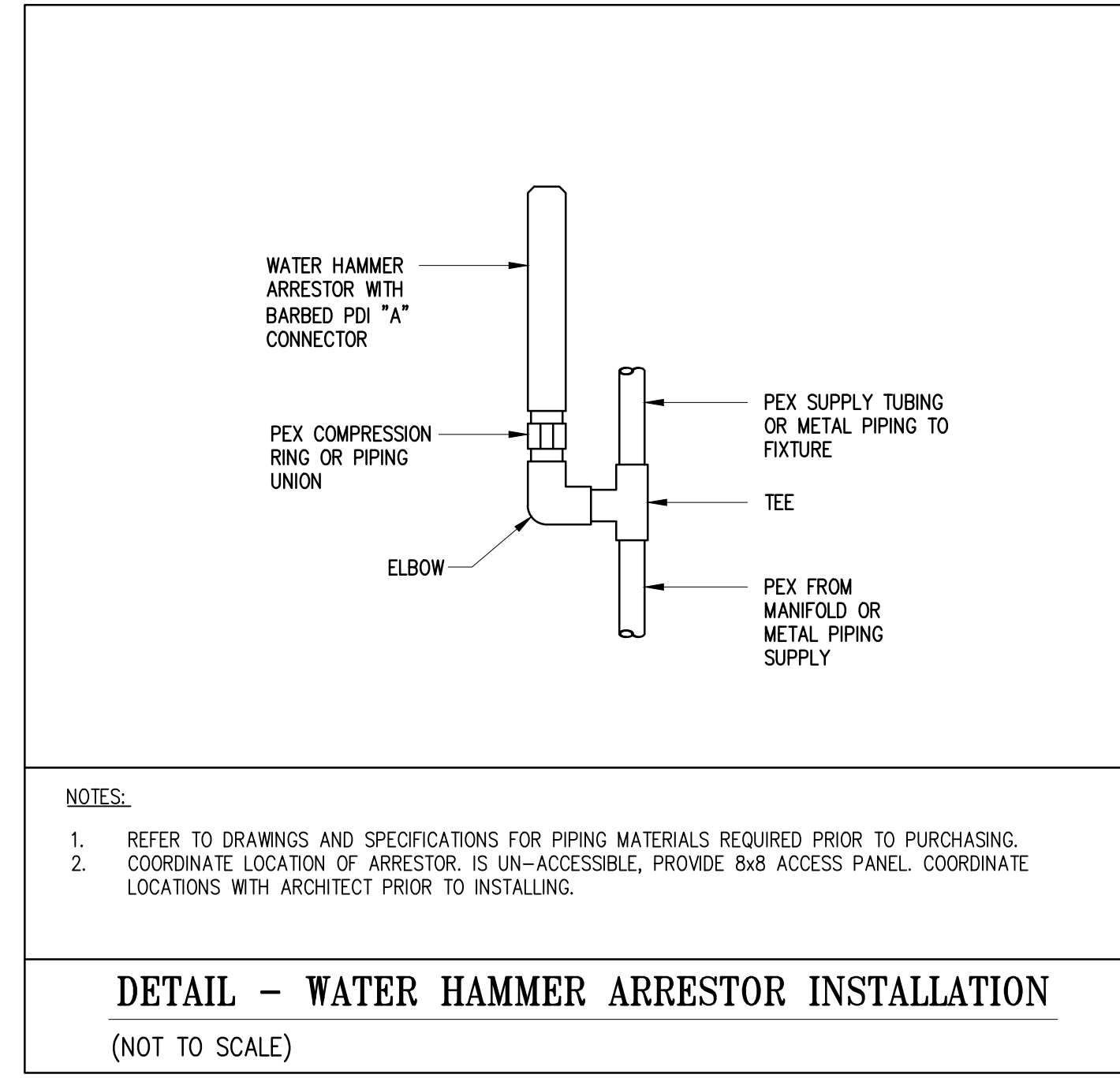
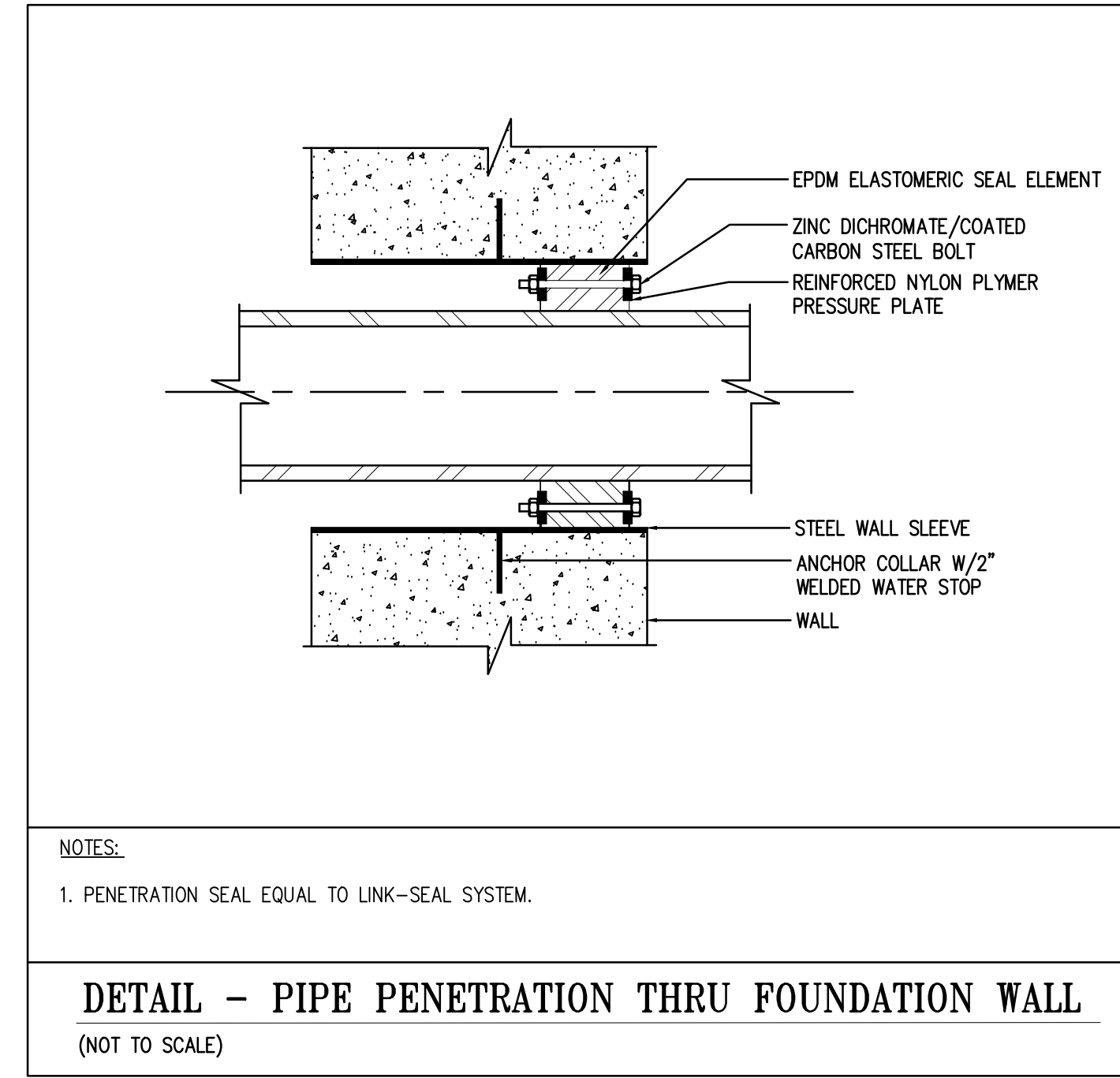
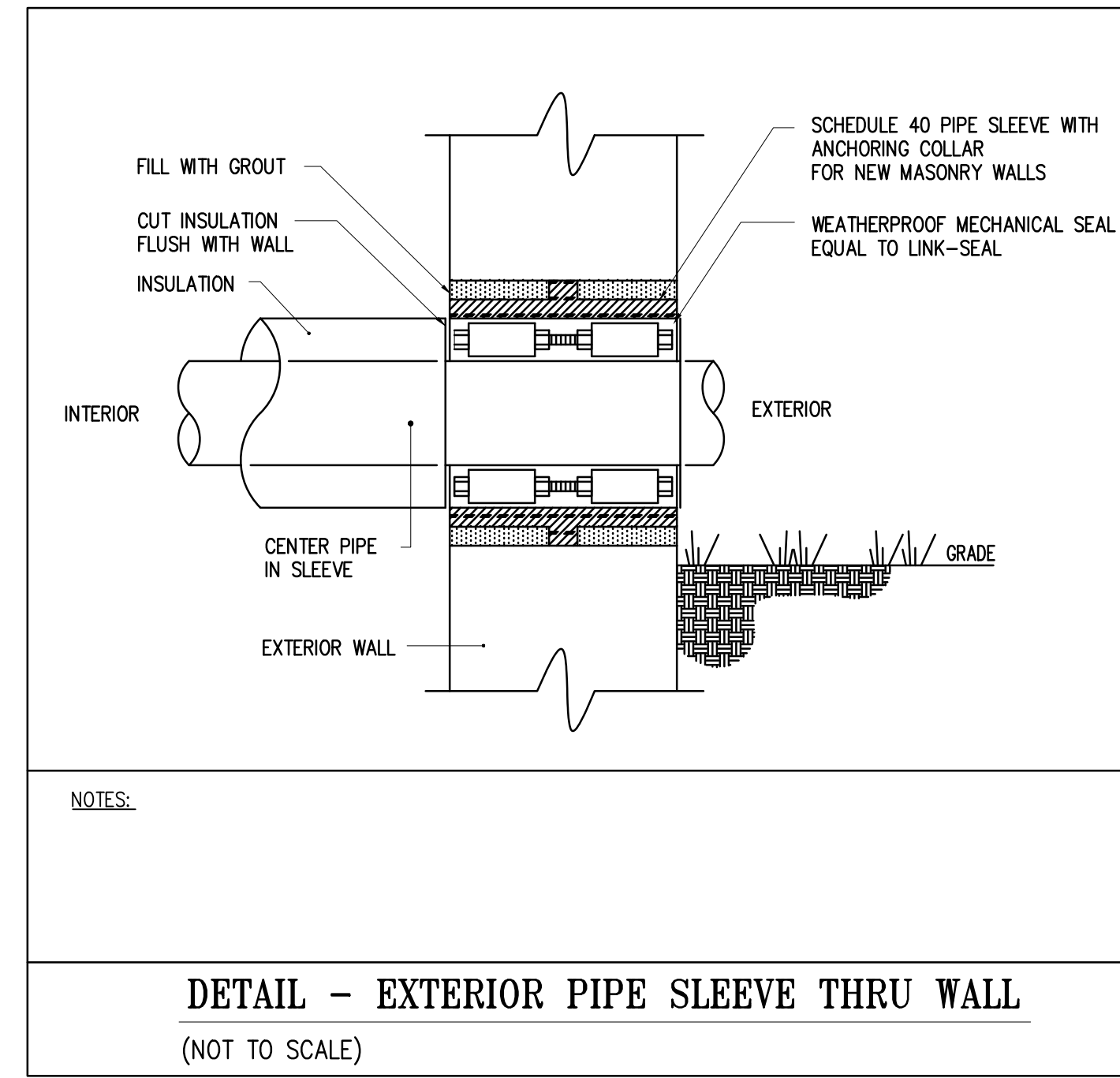
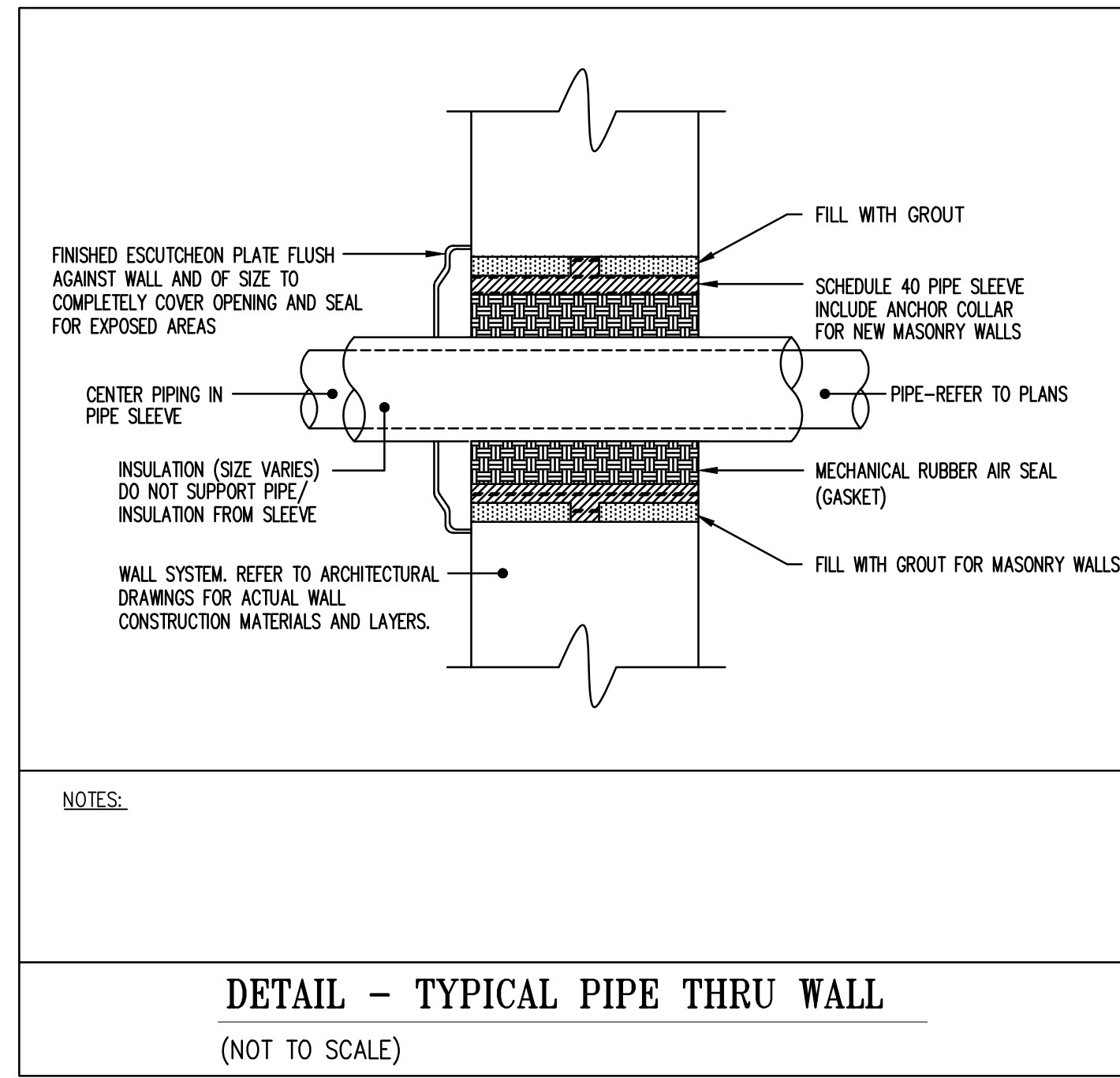
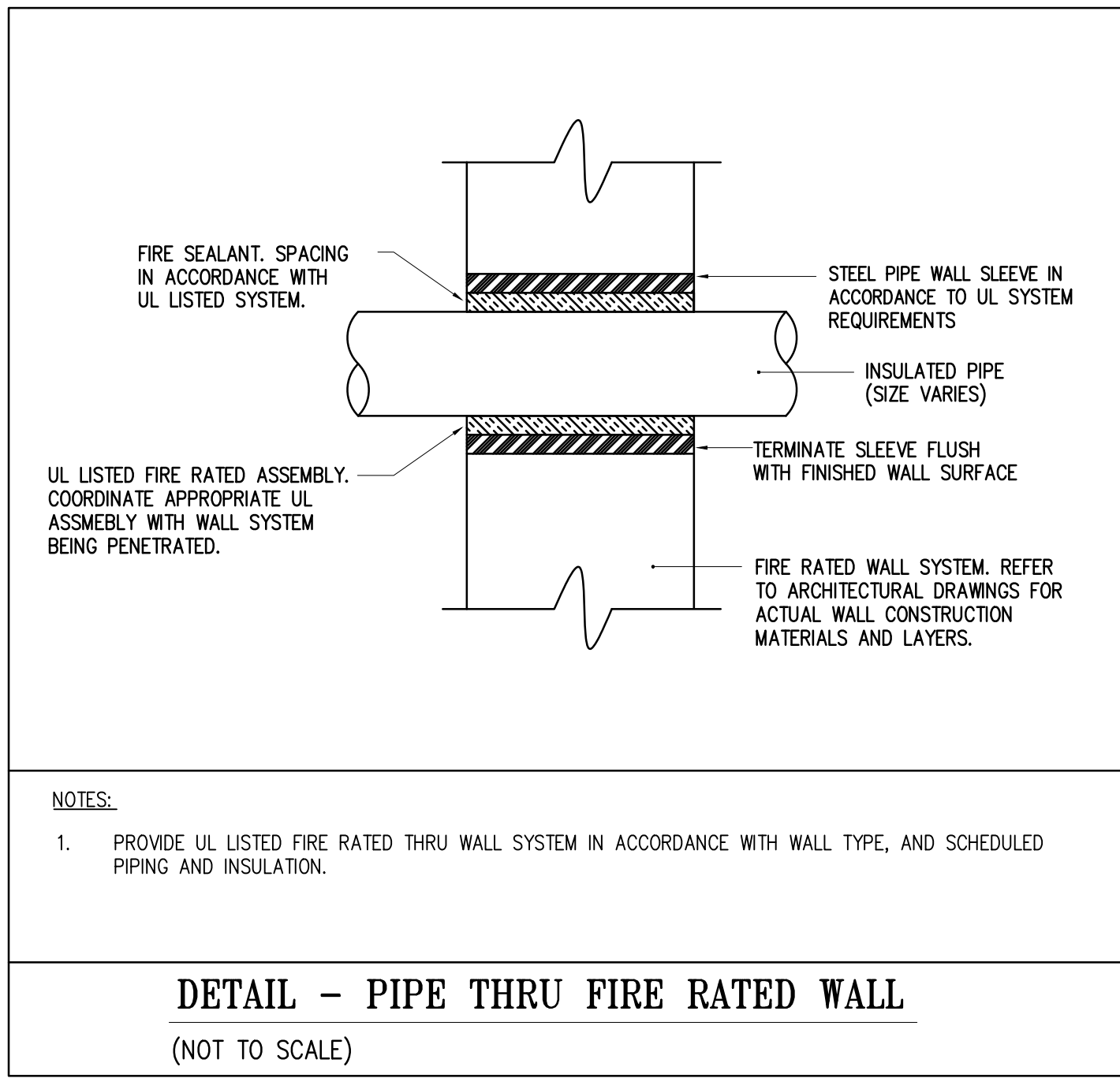
Scale  
AS NOTED

Drawing Name  
PLUMBING NEW  
WORK - BLOCK 'D'  
- ROOF PLAN

Revisions		
No.	Date	Description

Drawing Number  
P205





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WILLIAM D. HOPKINS III, AIA, LEED AP  
NJ-214070600 / PA-PA012020

GEORGE B. DUTHE, JR., AIA, PP  
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Architect  
F V H D P C C O M

**FVH D architects**  
planners  
Frattak Veisz Hopkins Duthe P C  
Corporate: 1515 Lower Ferry Road - Trenton - New Jersey 08628  
Pennsylvania: 140 Whitaker Ave - Mont Clare - Pennsylvania 19453

7/12/2019  
DATE

Project Name  
Additions, Alterations and Renovations at Northern Burlington County Regional High School - Phase 1

Project Owner Name  
Northern Burlington County Regional School District

Project Location  
160 Mansfield Rd. East, Columbus, NJ 08022

Project Number  
5086.3A

Project Date  
07.12.2019

Checked By  
JRS

Drawn By  
JRM

Scale  
AS NOTED

Drawing Name  
PLUMBING DETAILS

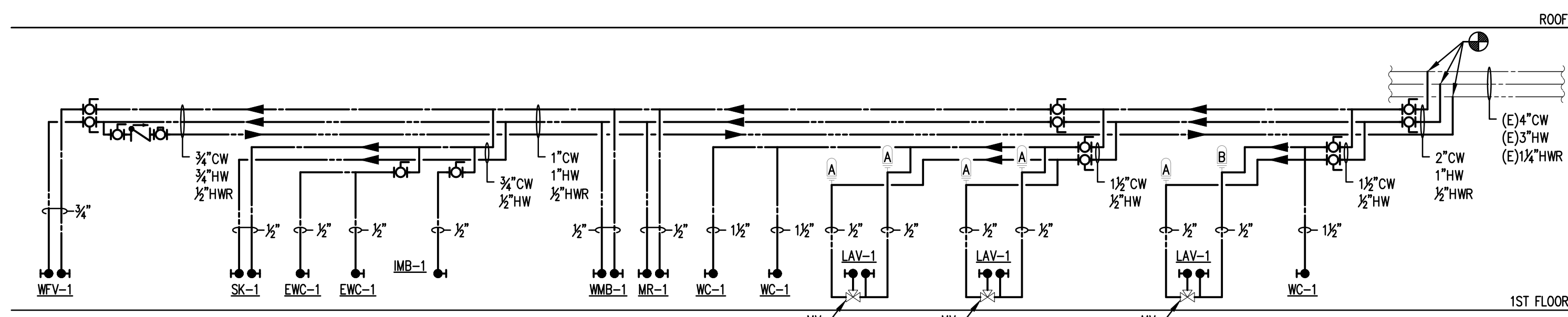
Revisions		
No.	Date	Description

Drawing Number  
P401

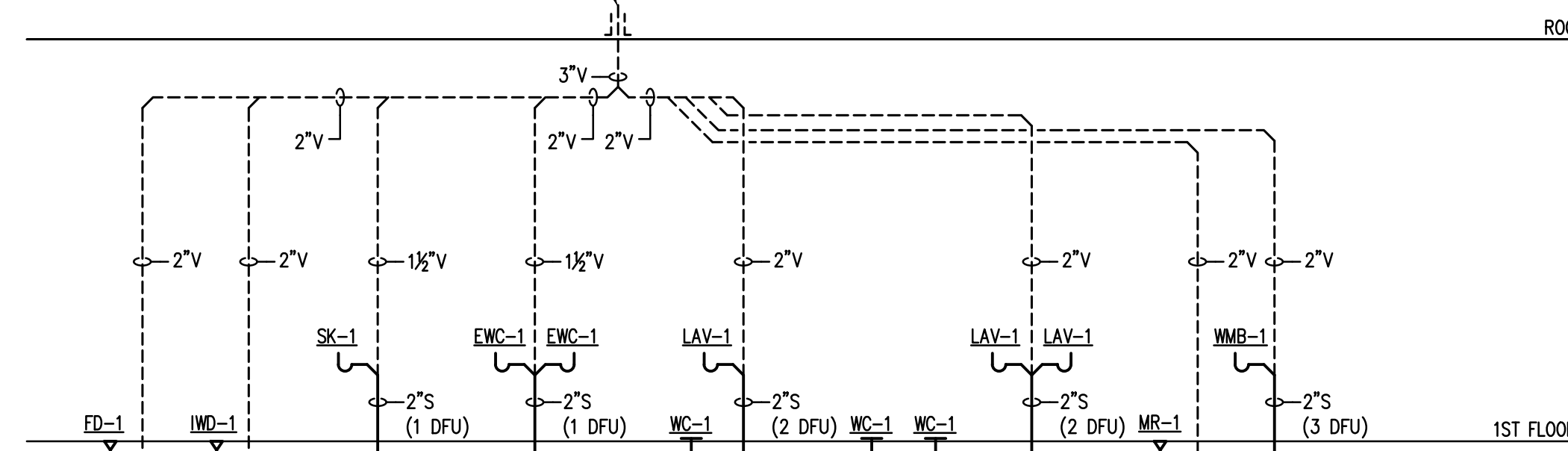
**SHARPE ENGINEERING, INC.**  
ME Consulting Engineers

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Trenton, NJ 08611  
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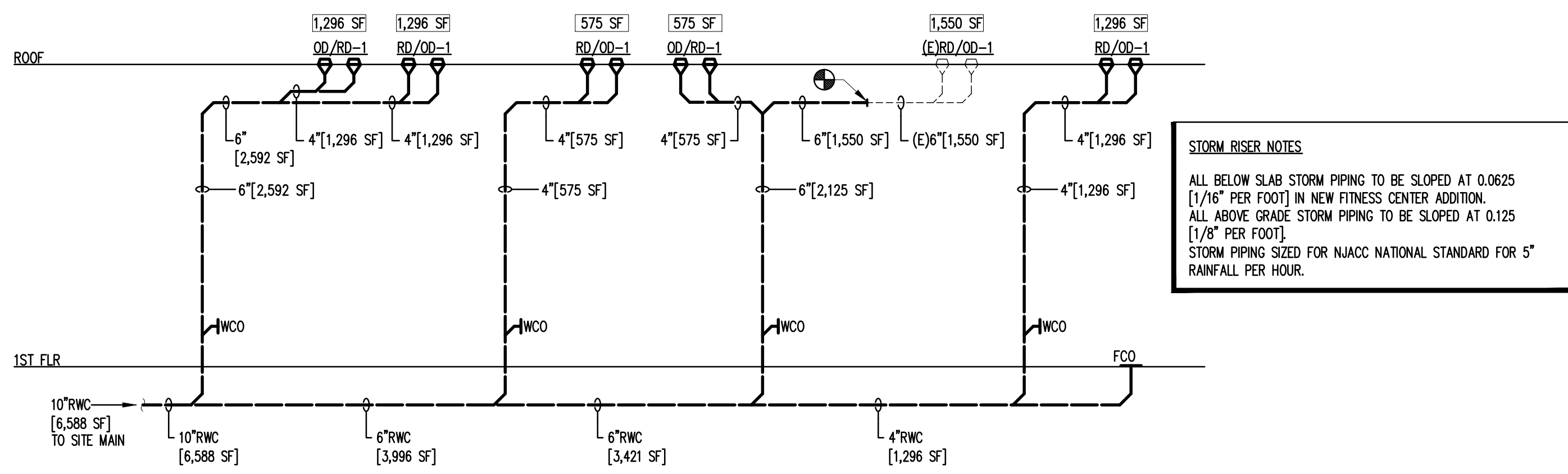
7/12/2019 DATE  
ENGINEER JOHN E. SHARPE, P.E. NJ Lic. No. 24620425000



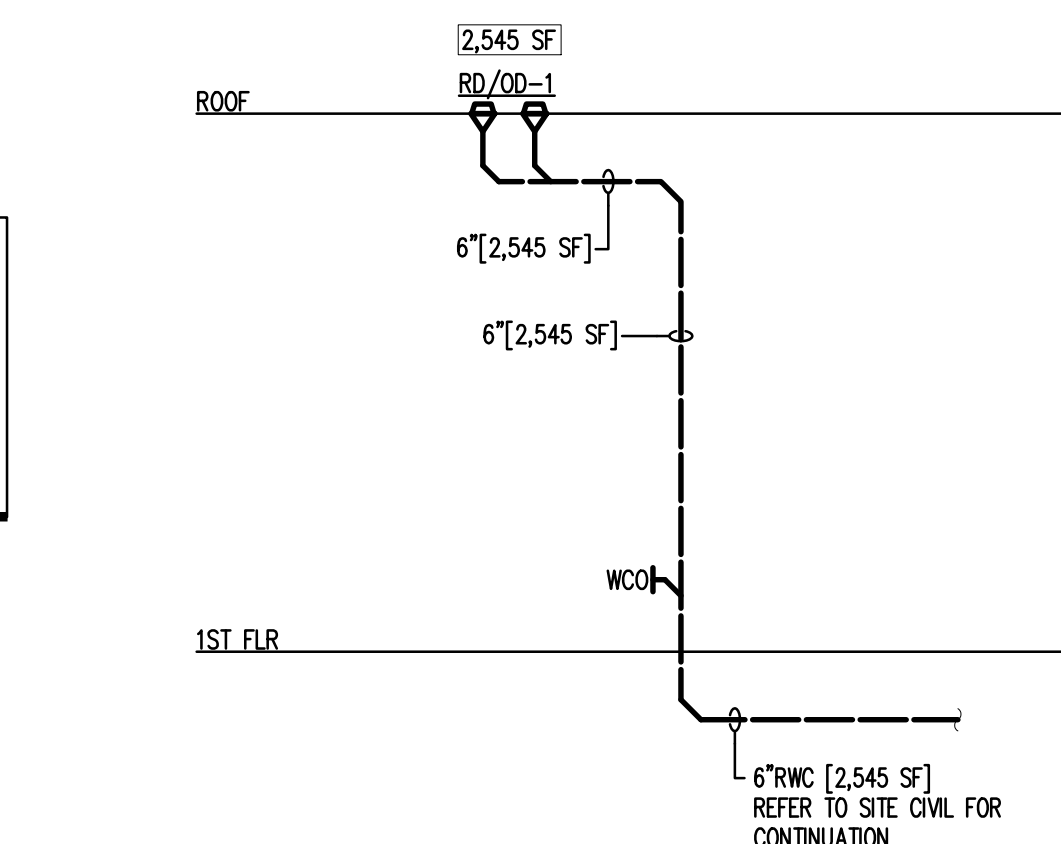
1 PLUMBING - FITNESS CENTER RISER DIAGRAM - DOMESTIC WATER  
SCALE: NO SCALE



2 PLUMBING - FITNESS CENTER RISER DIAGRAM - SANITARY  
SCALE: NO SCALE

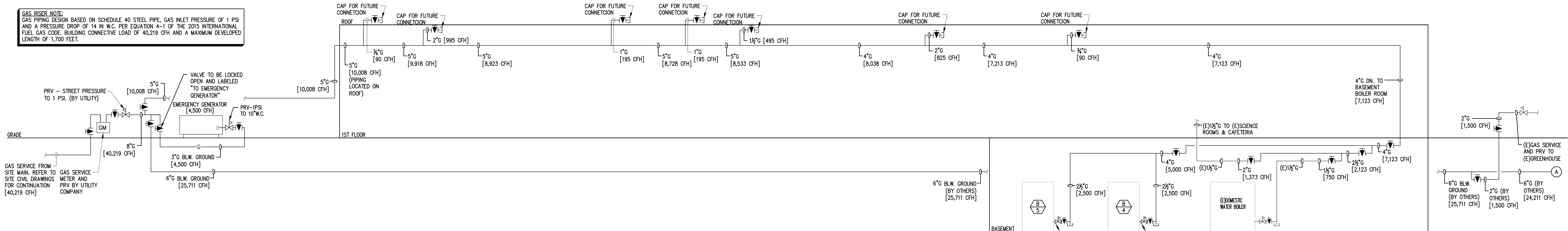


3 PLUMBING - FITNESS CENTER RISER DIAGRAM - STORM WATER  
SCALE: NO SCALE

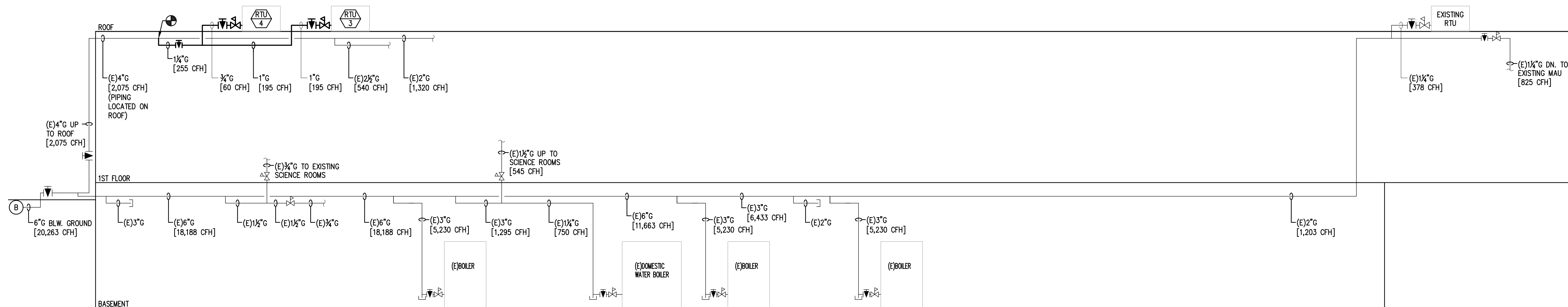
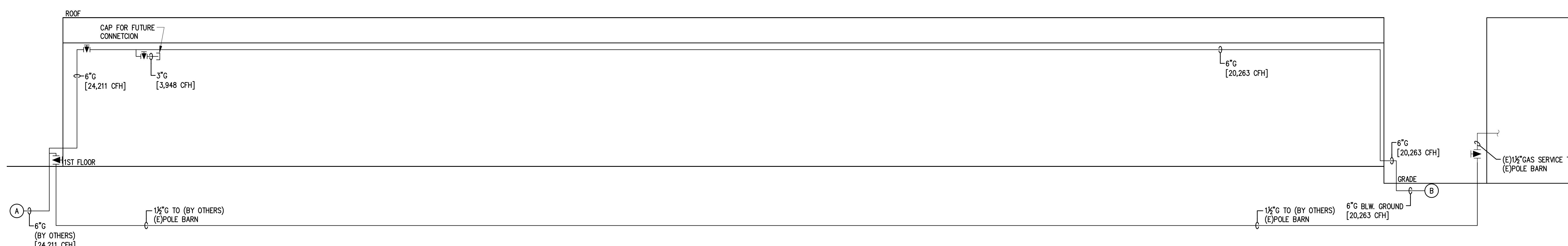


4 PLUMBING - JROTC RISER DIAGRAM - STORM WATER  
SCALE: NO SCALE

**GAS RISER NOTE:**  
GAS PIPING DESIGN BASED ON SCHEDULE 40 STEEL PIPE, GAS INLET PRESSURE OF 1 PSI AND A PRESSURE DROP OF 14 IN. W.C. PER EQUATION 4-1 OF THE 2015 INTERNATIONAL FUEL GAS CODE, BUILDING CONNECTIVE LOAD OF 40,219 CFH AND A MAXIMUM DEVELOPED LENGTH OF 1,700 FEET.



5 PLUMBING - NATURAL GAS RISER DIAGRAM  
SCALE: NO SCALE



JOHN J. VEISZ, AIA, CSBA  
NU: 214006993 | PA: RA01819  
WILLIAM D. HOPKINS III, AIA, LEED AP  
NU: 214070600 | PA: RA025200  
GEORGE B. DUTHE, JR., AIA, PP  
NU: 214070690

**GFVHD** architects  
planners  
Frattak Veisz Hopkins Duthe P C  
Corporate: 1615 Lower Ferry Road - Trenton - New Jersey 08628  
Pennsylvania: 140 Whitaker Ave - Mont Clear - Pennsylvania 19453

Project Name  
Additions, Alterations  
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Northern Burlington  
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Project Owner Name  
Northern Burlington  
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School District

Project Location  
160 Mansfield Rd. East,  
Columbus, NJ 08022

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07.12.2019  
Checked By  
JRS  
Drawn By  
JRM  
Scale  
AS NOTED

Drawing Name  
PLUMBING RISER  
DIAGRAMS

Revisions  
No. Date Description

Drawing Number  
P501

**SHARPE**  
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