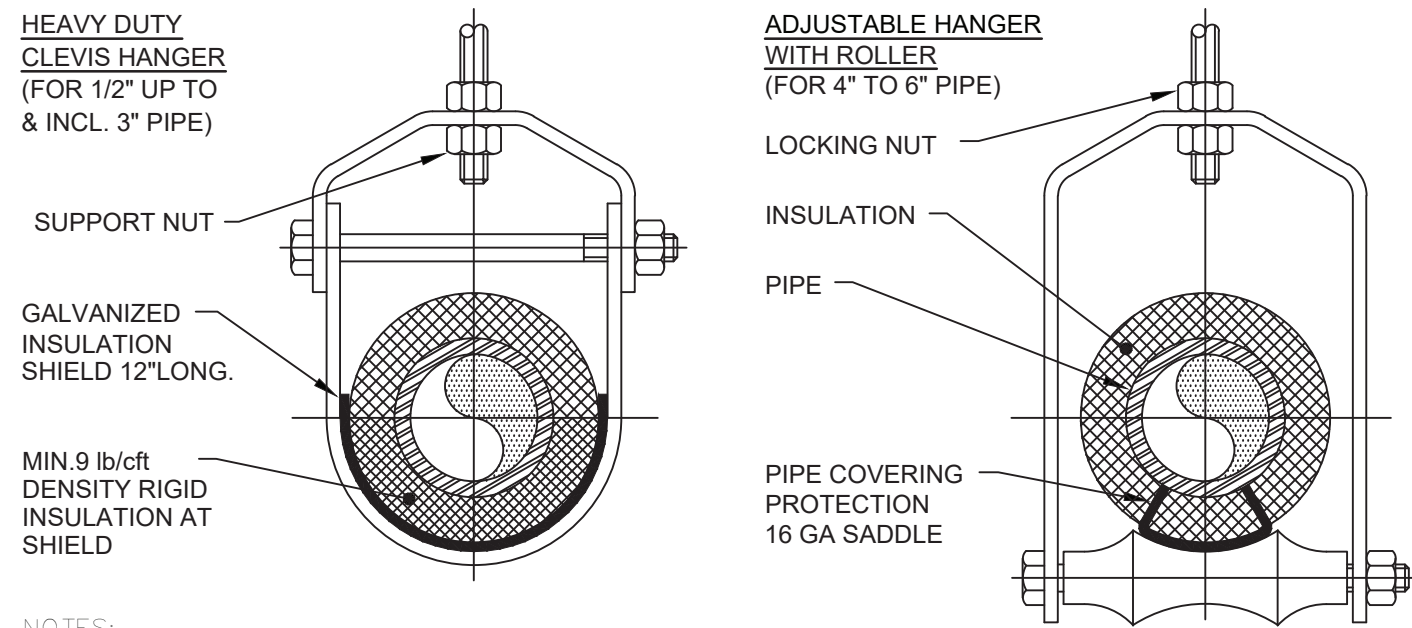


Plumbing Fixture Schedule											
FIXTURE MARK	DESCRIPTION	PIPING CONNECTION				WATER SUPPLY FIXTURE UNITS	DRAINAGE FIXTURE UNITS	ADA (Y/N)	ELECTRONIC CONTROL (Y/N)	MANUFACTURER/MODEL (OR ACCEPTABLE EQUAL)	REMARKS
		H.W.	C.W.	WASTE	VENT						
1	WATER CLOSET	-	1	4	2	10.0	4	Y	Y	WATER CLOSET TYPICAL OF ZURN MODEL #Z5615-BWL-AM HET; WALL HUNG W/ ELONGATED FRONT RIM; 1.28 GPF; FURNISH W/ SEAT MODEL #Z5955SS-EL AND HARDWIRED FLUSH VALVE MODEL# ZEMS6000AV-HET	INSTALL PER ADA & MANUFACTURER'S REQUIREMENTS; FURNISH FLUSHOMETER HARDWIRING KITS FOR INSTALLATION BY EC
2	URINAL	-	3/4	2	2	5.0	2	Y	Y	URINAL TYPICAL OF ZURN ECOVANTAGE MODEL #Z5758.234.00; WHITE VITREOUS CHINA; 0.125 GPF; FURNISH W/ HARDWIRED SENSOR FLUSH VALVE MODEL #ZEM6003AV-JULF-IS	INSTALL PER ADA & MANUFACTURER'S REQUIREMENTS; FURNISH FLUSHOMETER HARDWIRING KITS FOR INSTALLATION BY EC
3	2 STATION SINK	1/2	1/2	1-1/2	1-1/2	2.0	1	Y	Y	2 STATION SINK TYPICAL OF SLOAN ELWF-82000; PROVIDE HARDWIRED SENSOR FAUCET MODEL #SF-2900 W/ PLUG IN ADAPTER & DAISY CHAIN ELECTRICAL CABLE W/ ADA STRAINER, P-TRAP & ADA TRAP/STOP/SUPPLY PROTECTORS	INSTALL PER ADA & MANUFACTURER'S REQUIREMENTS
4	BI-LEVEL ADA DRINKING FOUNTAIN W/ BOTTLE FILLER	-	3/8	1-1/2	1-1/2	0.25	0.5	Y	-	BOTTLE FILLING STATION & BI-LEVEL ADA COOLER TYPICAL OF ELKAY MODEL #LZSTLG8WSSK; FILTERED 8 GPH STAINLESS	INSTALL PER ADA & MANUFACTURER'S REQUIREMENTS
5	2'x2' MOP BASIN	1/2	1/2	3	2	1.4	2	N	N	MOP BASIN TYPICAL OF FIAT MODEL #MSB-2424; SHEET MOLDING COMPOUND CONSTRUCTION; FURNISH W/ FAUCET #830-AA, HOSE & BRACKET #832-AA, MOP HANGER #889-CC & STAINLESS WALL GUARD #MSG2424	INSTALL PER MANUFACTURER'S REQUIREMENTS
6	ELECTRIC WATER HEATER	3/4	3/4	-	-	-	-	-	-	ELECTRIC WATER HEATER TYPICAL OF AO SMITH MODEL #DEL-20S-4; 20 GAL. CAPACITY; 18 GPH RECOVERY @ 90F RISE; 4 KW INPUT; 208V, 1 PHASE	INSTALL PER MANUFACTURER'S REQUIREMENTS
7	1 STATION SINK	1/2	1/2	1-1/2	1-1/2	2.0	1	Y	Y	1 STATION SINK TYPICAL OF SLOAN ELC-41000; PROVIDE HARDWIRED SENSOR FAUCET MODEL #SF-2900 W/ PLUG IN ADAPTER W/ ADA STRAINER, P-TRAP & ADA TRAP/STOP/SUPPLY PROTECTORS	INSTALL PER ADA & MANUFACTURER'S REQUIREMENTS
8	STAINLESS STEEL UNDERMOUNT SINK	1/2	1/2	1-1/2	1-1/2	2.0	1	Y	N	STAINLESS STEEL UNDERMOUNT SINK TYPICAL OF ELKAY ELU131655PD; PROVIDE FAUCET MODEL LKGT1042 & PERFECT DRAIN FITTING MODEL LKPD1	INSTALL PER ADA & MANUFACTURER'S REQUIREMENTS

ADD ALTERNATE PC-01
(FIXTURES 1-6)

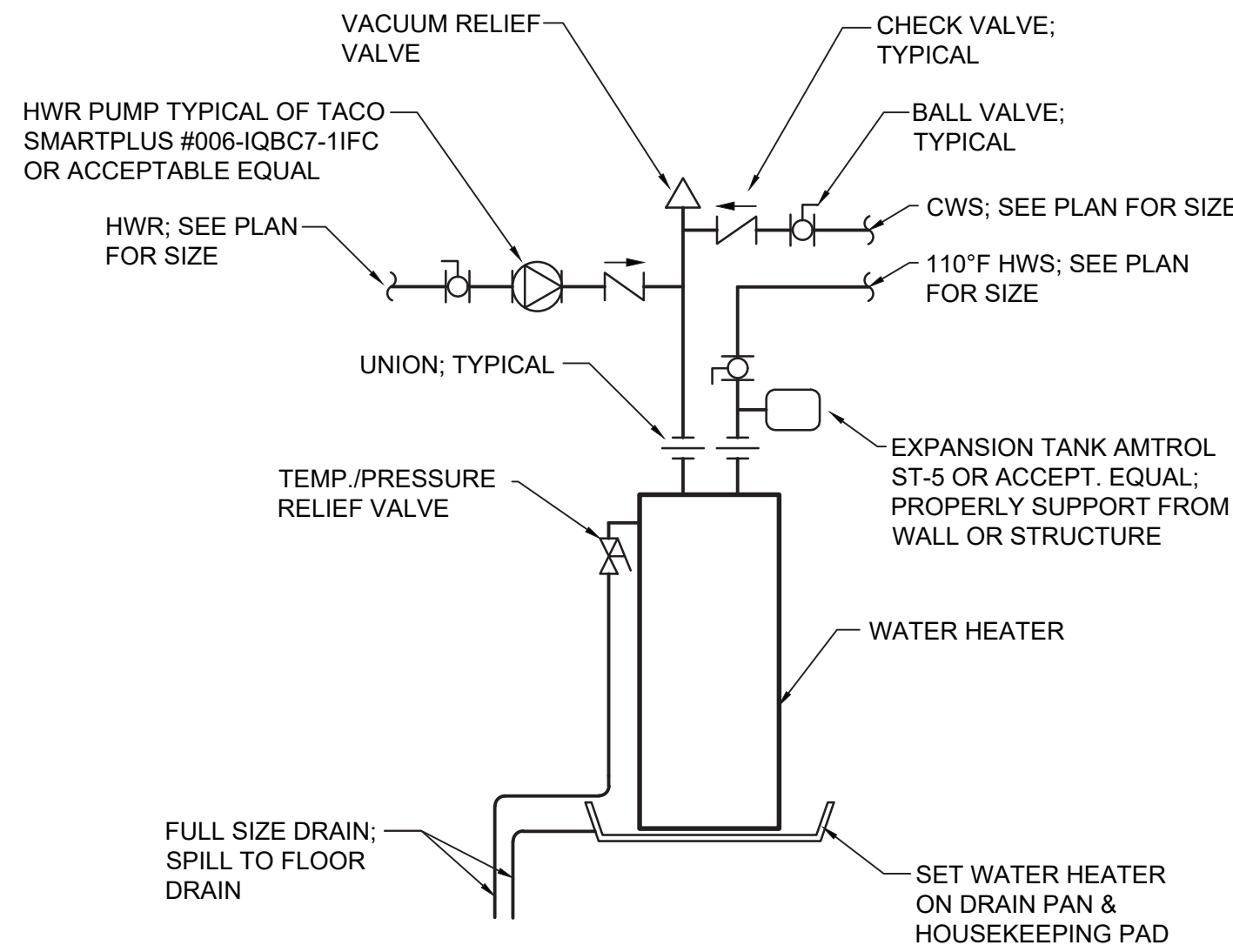
CONTRACT #5
(FIXTURES 7-8)



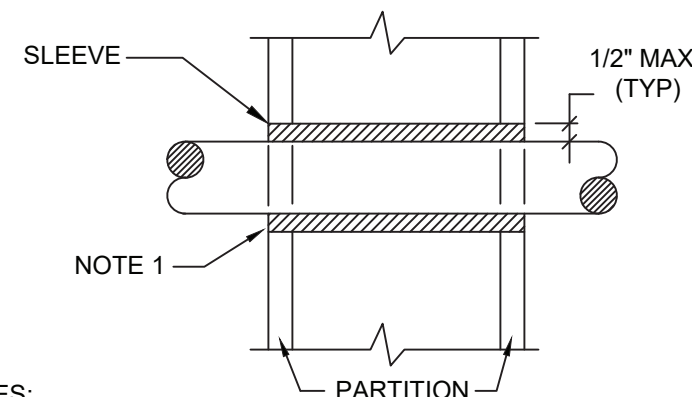
- NOTES:
- PIPE 8" AND LARGER SHALL HAVE ROLLER SUPPORTED WITH DUAL RODS.
 - FOR CHW SERVICE OVER 3" REPLACE SADDLE WITH 12" LONG 14 GA SHIELD WITH RIGID INSULATION BETWEEN PIPE AND SHIELD.

PIPE Ø (IN.)	MAX. SPACING BETWEEN HANGERS (FT.)			MIN. ROD SIZE (IN.)
	STEEL PIPE	COPPER PIPE	CPVC	
1/2 THRU 1	7	5	5	3/8
1-1/2 THRU 2	9	8	6	3/8
2-1/2	11	9	7.5	1/2
3	12	10	7.5	1/2
4	14	12	8.5	5/8
6	17	14	9	3/4
8	19	16	10	7/8
10	22	18	10.5	7/8

1 Pipe Hanger Support
P.101 N.T.S.

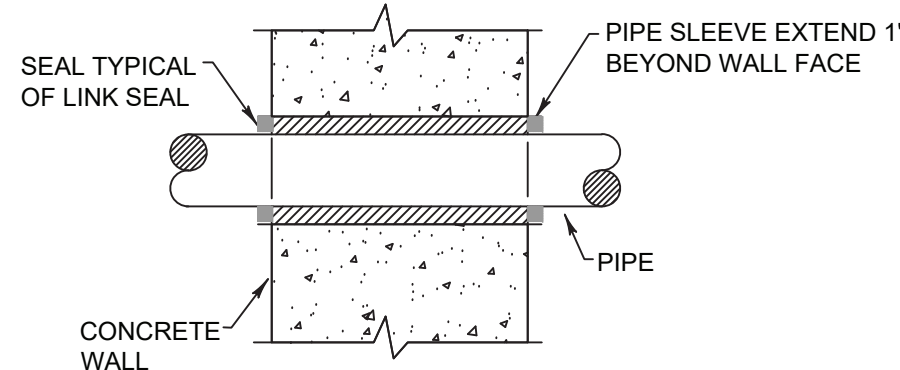


2 Water Heater Detail
P.101 Scale: None

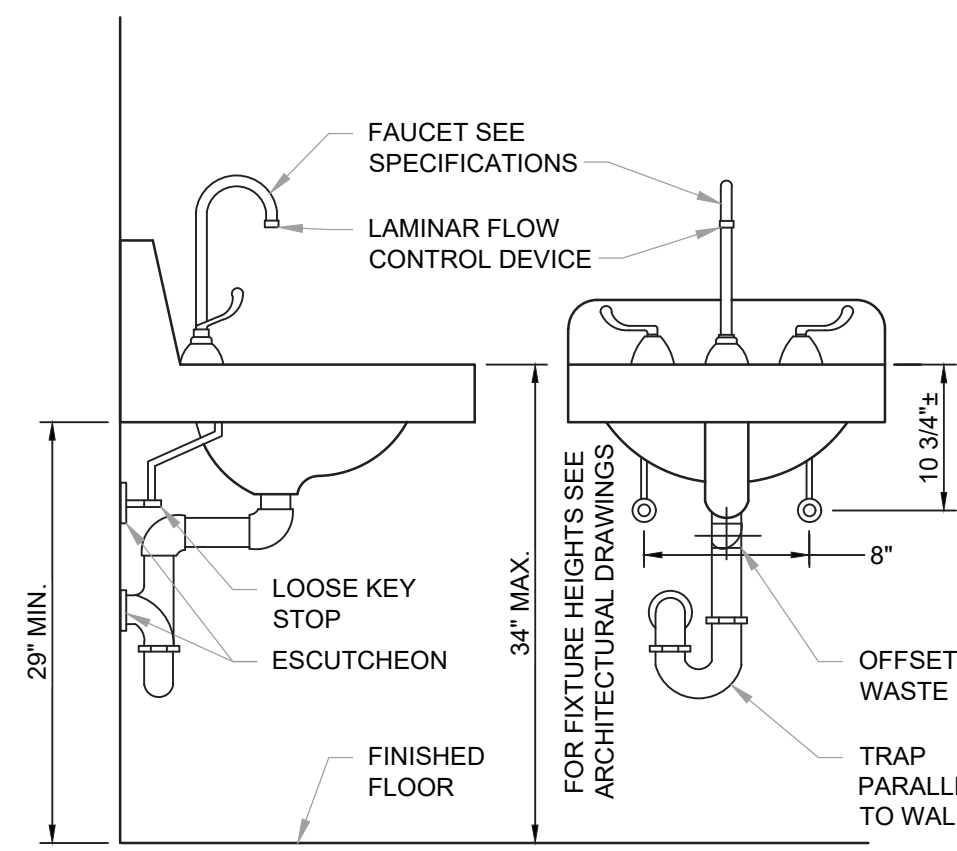


- NOTES:
- AT FIRE RATED PARTITIONS, ADD ADDITIONAL LAYER OF FIRE SAFING INSULATION AROUND PENETRATION SO AS TO FILL CAVITY.
 - DUCT AND PIPE PENETRATIONS THRU CORRIDOR WALLS ABOVE THE CEILING ARE TO BE FIRE STOPPED AROUND THE PENETRATION.

3 Pipe Penetrations Detail
P.101 N.T.S.



4 Exterior Wall Pipe Penetrations
P.101 N.T.S.



5 Accessible Lavatory Detail
P.101 Scale: None

Plumbing Legend:

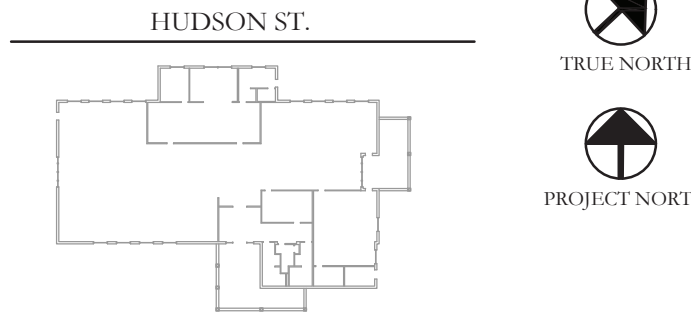
---	DOMESTIC COLD WATER SUPPLY
---	110 °F DOMESTIC HOT WATER SUPPLY
---	140 °F DOMESTIC HOT WATER SUPPLY
---	HOT WATER RETURN
---	SANITARY SEWER, ABOVE GRADE
---	SANITARY SEWER, BELOW GRADE
---	PLUMBING VENT
---	STORM WATER, ABOVE GRADE
---	STORM WATER, BELOW GRADE
---	LP GAS PIPING
---	DIRECTION OF PIPE SLOPE (DOWN)
---	CONCENTRIC REDUCER OR INCREASER
---	ECCENTRIC REDUCER
---	TOP CONNECTION, 45° OR 90°
---	BOTTOM CONNECTION, 45° OR 90°
---	SIDE CONNECTION
---	CAPPED OUTLET
---	RISE OR DROP IN PIPE
---	UNION
---	PIPE UP
---	PIPE DOWN
---	POINT OF CONNECTION BETWEEN NEW AND EXISTING WORK
---	STRAINER
---	HOSE BIB
---	SOLENOID VALVE
---	GATE VALVE
---	GLOBE VALVE
---	CHECK VALVE
---	BUTTERFLY VALVE
---	FULL PORT BALL VALVE
---	PRESSURE GAUGE
---	FLOOR CLEANOUT W/ DECK PLATE
---	CLEANOUT
---	WALL CLEANOUT
---	CLEANOUT TO GRADE
---	PLUMBING FIXTURE MARK

Plumbing Notes:

- ALL MATERIALS AND EQUIPMENT ARE TO BE NEW, UNUSED, AND FREE FROM DEFECTS OF ANY KIND. THE BASIS OF QUALITY SHALL BE THE LATEST REVISION OF ASTM, ANSI, OR OTHER ACCEPTABLE STANDARDS.
- THESE DRAWINGS ARE DIAGRAMMATIC, AND INDICATE GENERAL ARRANGEMENT OF WORK. THE CONTRACTOR SHALL BE RESPONSIBLE TO HAVE REVIEWED THE SITE FOR HIS WORK PRIOR TO HAVING SUBMITTED HIS PROPOSAL. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR CONDITIONS FOUND DURING THE COURSE OF THE CONTRACT.
- THE CONTRACTOR SHALL COORDINATE HIS WORK WITH THAT OF ALL OTHER TRADES.
- ALL WORK INCLUDING LABOR AND MATERIALS SHALL BE FULLY GUARANTEED FOR ONE (1) YEAR FROM THE DATE OF PAYMENT AND FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- ALL CUTTING, PATCHING, FIRE-STOPPING, AND SURFACE RESTORATION IN CONNECTION WITH THIS TRADE SHALL BE COMPLETED BY THIS CONTRACTOR.
- A MINIMUM OF FOUR (4) COPIES OF SHOP DRAWINGS SHALL BE SUBMITTED TO THE ENGINEER FOR APPROVAL PRIOR TO ORDERING AND INSTALLATION OF THE EQUIPMENT AND/OR MATERIALS. BY SUBMITTING SHOP DRAWINGS, THE CONTRACTOR REPRESENTS THAT ACTUAL FIELD CONDITIONS ARE VERIFIED BY HIM AND ARE REFLECTED ON HIS SUBMITTALS.
- THIS CONTRACTOR SHALL PAY ALL FEES, GIVE ALL NOTICES, FILE ALL NECESSARY DRAWINGS, AND OBTAIN ALL PERMITS, INSPECTIONS AND CERTIFICATES OF APPROVAL REQUIRED IN CONNECTION WITH WORK UNDER THIS CONTRACT.
- ALL WORK IN ASSOCIATION WITH THIS CONTRACT SHALL BE COMPLETED IN STRICT COMPLIANCE WITH THE 2020 BUILDING CODE OF NEW YORK STATE, 2020 PLUMBING CODE OF NEW YORK STATE, 2020 FUEL GAS CODE OF NEW YORK STATE & 2020 ENERGY CONSERVATION CONSTRUCTION CODE OF NEW YORK STATE.
- WHERE THE PROJECT INVOLVES A GAS SERVICE, THIS CONTRACTOR SHALL BE RESPONSIBLE FOR ALL COORDINATION, APPLICATIONS AND FEES OF ALL WORK ASSOCIATED WITH THE LOCAL GAS UTILITY COMPANY. ALL WORK INVOLVING THE GAS UTILITY COMPANY SHALL BE COMPLETED IN ACCORDANCE WITH THEIR REGULATIONS AND GUIDELINES.
- ALL DOMESTIC COLD AND HOT WATER PIPING AND FITTINGS ARE TO BE INSULATED WITH 1" THICK RIGID ONE-PIECE MOLDED SECTIONAL FIBERGLASS PIPE COVERING WITH UNIVERSAL JACKET. ALL JOINTS ARE TO BE COMPLETELY SEALED A MINIMUM OF 6" BEYOND JOINT ENDS.
- ALL PIPING SHALL BE PROPERLY SUPPORTED AND ROUTED PARALLEL OR PERPENDICULAR TO BUILDING WALLS. THE CONTRACTOR SHALL FURNISH AND INSTALL ALL SUPPORT HANGERS AND MISCELLANEOUS METALS REQUIRED FOR PROPER INSTALLATION OF WORK.
- PIPING SYSTEM MATERIALS ARE TO BE AS FOLLOWS:
 - DOMESTIC WATER DISTRIBUTION - CHLORINATED POLYVINYL CHLORIDE (CPVC) PLASTIC PIPE AND FITTINGS. JOINTS SHALL BE MADE IN ACCORDANCE WITH ASTM D 2846 USING A PRIMER AND SOLVENT CEMENT CONFORMING TO ASTM F 493.
 - SANITARY DRAINAGE & VENT - SCHEDULE 40 POLYVINYL CHLORIDE (PVC) PLASTIC PIPE AND FITTINGS. JOINTS SHALL BE MADE IN ACCORDANCE WITH ASTM D 2855 USING A PRIMER CONFORMING TO ASTM F 656 AND SOLVENT CEMENT CONFORMING TO ASTM D 2564.
 - GAS DISTRIBUTION - SCHEDULE 40 BLACK STEEL PIPE WITH MALLEABLE IRON THREADED FITTINGS & THREAD JOINT COMPOUND FOR PIPING UP THRU 4" DIAMETER. JOINTS MUST BE WELDED FOR PIPING OVER 4" DIAMETER. WHERE PIPING IS TO BE INSTALLED BELOW GRADE, PIPING AND FITTINGS ARE TO BE COATED WITH A CORROSION-RESISTENT MATERIAL.
- ALL EXPOSED PIPING, FITTINGS, TRAPS, ESCUTCHEONS, VALVES, ETC. SHALL BE CHROME PLATED.
- SLOPE SANITARY DRAINAGE PIPING 2" DIAMETER AND SMALLER NOT LESS THAN 1/4" PER FOOT. SLOPE SANITARY DRAINAGE PIPING OVER 2" DIAMETER NOT LESS THAN 1/8" PER FOOT.
- INSTALL A CLEANOUT AT THE BASE OF EACH SOIL STACK, AT EACH CHANGE IN DIRECTION, AT INTERVALS NOT OVER 50 FEET AND ELSEWHERE AS SHOWN ON DRAWINGS OR REQUIRED BY CODE.
- PROVIDE EXPOSED PIPING WITH CHROME PLATED CAST BRASS ESCUTCHEON WITH SET SCREW WHERE PENETRATING FLOORS, CEILINGS, WALLS OR PARTITIONS.
- TEST PIPING AND PROVE TIGHT FOR AT LEAST TWO HOURS IN ACCORDANCE WITH REQUIREMENTS OF AUTHORITIES HAVING JURISDICTION AND/OR AS SPECIFIED. TEST SHALL BE PERFORMED IN THE PRESENCE OF THE ENGINEER AND LOCAL INSPECTOR. TEST SHALL BE REPEATED IF NECESSARY UNTIL FINAL APPROVAL OF SYSTEM IS OBTAINED.
- WATER & GAS PIPING TO BE AIR-PRESSURE TESTED TO 1-1/2 TIMES MAXIMUM WORKING PRESSURE.
- DRAINAGE, WASTE & VENT PIPING TO BE TESTED BY FILLING THE SYSTEM WITH WATER TO 10-FEET ABOVE HIGHEST POINT.
- SUPPORT HORIZONTAL PIPING UTILIZING A SPACING PER PIPING MANUFACTURER'S REQUIREMENTS.
- INSTALL VALVES ON THE ENTIRE DISTRIBUTION SYSTEM, SO LOCATED AS TO GIVE COMPLETE CONTROL TO ALL FIXTURES AND EQUIPMENT.
- INSTALL DRAIN VALVES AT BASE OF ALL RISERS AND AT LOW POINTS OF PIPING SYSTEM.
- THE CONTRACTOR IS RESPONSIBLE TO TEST ALL EQUIPMENT, PIPING, FIXTURES, AND SYSTEMS INSTALLED UNDER THIS CONTRACT TO ENSURE PROPER OPERATION PRIOR TO FINAL ACCEPTANCE BY THE OWNER AND ENGINEER.
- THE CONTRACTOR IS RESPONSIBLE TO DETERMINE WHETHER SPECIAL LICENSING IS REQUIRED IN ORDER TO PERFORM THE REQUIRED WORK IN THE MUNICIPALITY WHERE THE PROJECT IS LOCATED. IF THE CONTRACTOR CANNOT OBTAIN THE REQUIRED LICENSING TO COMPLETE THE WORK WITHIN THE PROJECT SCHEDULE, THEN THE CONTRACTOR SHALL NOT BE PERMITTED TO BID ON THIS PROJECT.
- CONTRACTOR IS RESPONSIBLE TO CREATE AND SUBMIT RED-LINE "AS-BUILT" PLANS TO THE ENGINEER AT THE END OF THE PROJECT. AS-BUILT PLANS SHALL ACCURATELY REPRESENT THE SYSTEMS AS THEY WERE INSTALLED.

KEY PLAN:

'CORNWALL PUBLIC LIBRARY'

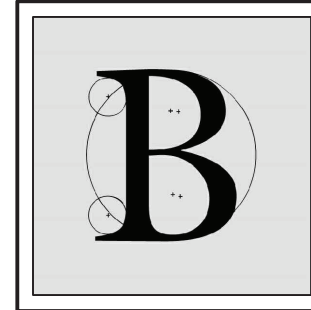


PROJECT:

CORNWALL PUBLIC LIBRARY
HVAC SYSTEM REPLACEMENT PROJECT
395 HUDSON STREET
CORNWALL, NEW YORK 12518
SED #44-03-01-06-6-009-006

SUB-CONSULTANT:

ENGINEER:



BLAKE ENGINEERING PLLC
1898 COUNTY ROUTE 1
WESTTOWN, NEW YORK 10998
TEL:845-467-9207 FAX:845-767-5050
MBLAKE@BLAKEENGINEERINGPLLC.COM



NOT VALID FOR CONSTRUCTION UNLESS SIGNED AND SEALED BY ENGINEER

MATTHEW G. BLAKE, P.E., LEED AP
NY - 89039 NJ - GE050037 PA - PE079303
MA - 53197 CT - 32283 FL - 85928

PLUMBING LEGEND, NOTES, SCHEDULE & DETAILS

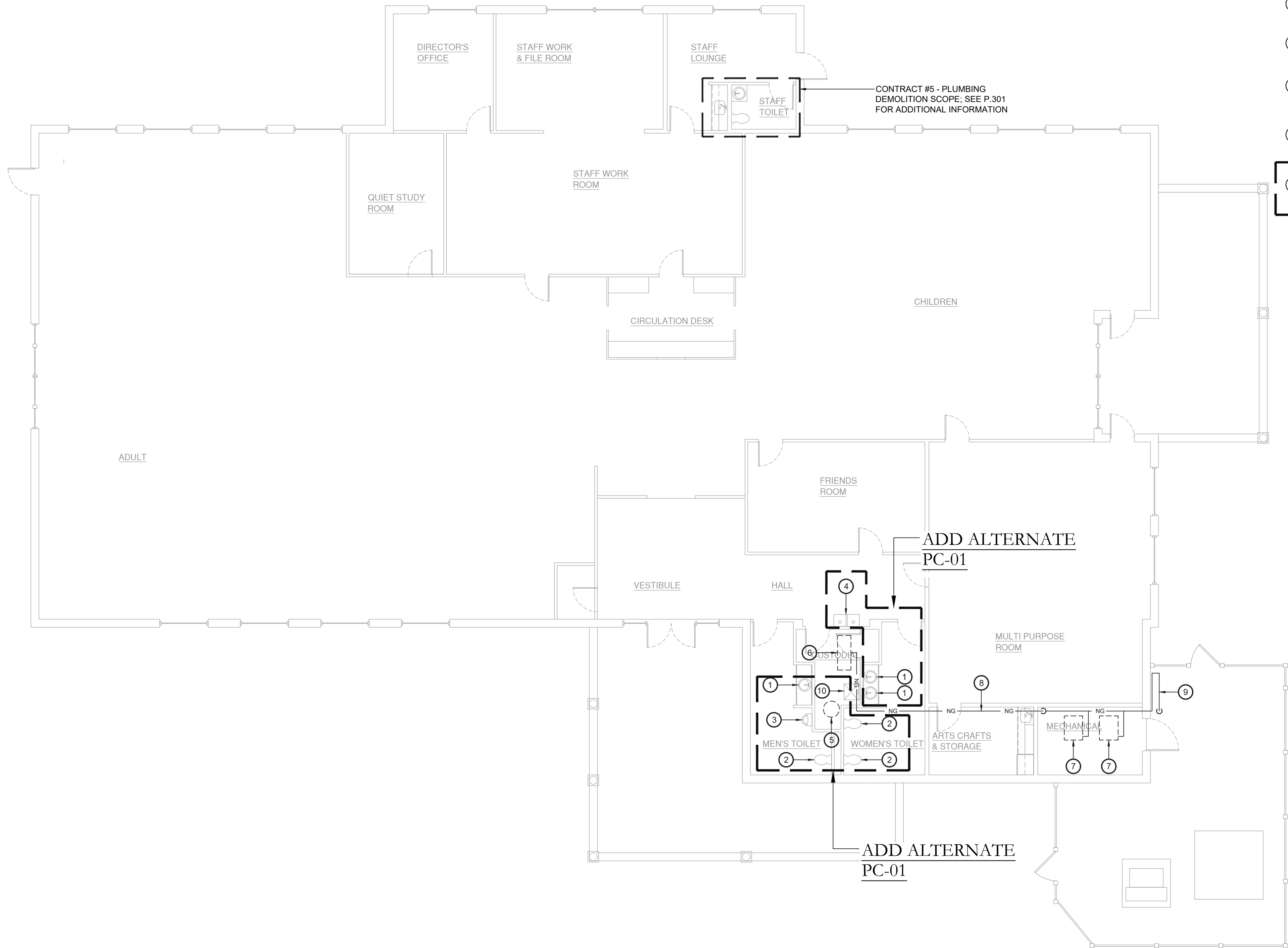
DATE	DRN	CHK	DESCRIPTION
01.26.2023	BJK	BJK	CONSTRUCTION DWGS

REV.	DATE	DRN	CHK	DESCRIPTION

PROJECT NO.	SHEET NO.
2150	P.101

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Key Notes:

- EXISTING LAVATORY TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF. DEMOLISH SANITARY, VENT & WATER PIPING BACK TO MAINS AT FLOOR AND/OR WALL & CAP; MAINTAIN SERVICES FOR RECONNECTION TO NEW FIXTURE(S)
- EXISTING WATER CLOSET TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF. DEMOLISH SANITARY, VENT & WATER PIPING BACK TO MAINS AT FLOOR AND/OR WALL & CAP; MAINTAIN SERVICES FOR RECONNECTION TO NEW FIXTURE(S)
- EXISTING URINAL TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF. DEMOLISH SANITARY, VENT & WATER PIPING BACK TO MAINS AT FLOOR AND/OR WALL & CAP; MAINTAIN SERVICES FOR RECONNECTION TO NEW FIXTURE(S)
- EXISTING DRINKING FOUNTAIN TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF. DEMOLISH SANITARY, VENT & WATER PIPING BACK TO MAINS AT FLOOR AND/OR WALL & CAP; MAINTAIN SERVICES FOR RECONNECTION TO NEW FIXTURE(S)
- EXISTING ELECTRIC WATER HEATER TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF. DEMOLISH SANITARY, VENT & WATER PIPING BACK TO MAINS AT FLOOR AND/OR WALL & CAP; MAINTAIN SERVICES FOR RECONNECTION TO NEW FIXTURE(S)
- EXISTING GAS FIRED HUMIDIFIER TO BE REMOVED BY MC; PLUMBING CONTRACTOR TO DISCONNECT GAS AND WATER LINES FROM UNIT PRIOR TO REMOVAL
- EXISTING GAS FIRED BOILER TO BE REMOVED BY MC; PLUMBING CONTRACTOR TO DISCONNECT GAS AND DOMESTIC WATER LINES FROM UNIT PRIOR TO REMOVAL
- DISCONNECT, REMOVE & PROPERLY DISPOSE OF ALL NATURAL GAS PIPING INSIDE OF THE BUILDING SERVING THE GAS HUMIDIFIER AND BOILERS; FIELD VERIFY EXACT ROUTING AND QUANTITY
- MODIFY EXISTING NATURAL GAS METER RISER; REMOVE ALL PIPING FROM INSIDE THE BUILDING BACK TO THE RISER; MAINTAIN GAS SERVICE TO EXISTING GENERATOR; COORDINATE W/ UTILITY COMPANY FOR MODIFICATIONS TO SERVICE RISER
- EXISTING MOP SINK TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF. DEMOLISH SANITARY, VENT & WATER PIPING BACK TO MAINS AT FLOOR AND/OR WALL & CAP; MAINTAIN SERVICES FOR RECONNECTION TO NEW FIXTURE(S)

ADD ALTERNATE
PC-01

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PC-01

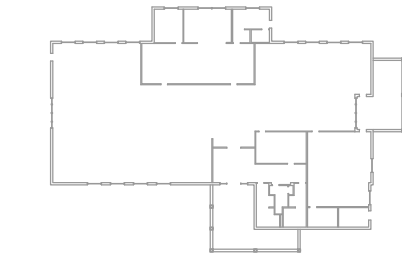
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PC-01

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KEY PLAN:

'CORNWALL PUBLIC LIBRARY'

HUDSON ST.

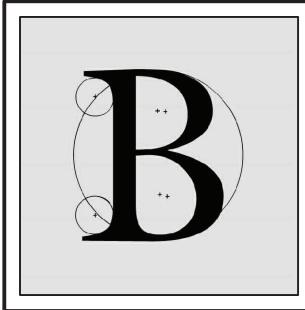


PROJECT:

CORNWALL PUBLIC LIBRARY
HVAC SYSTEM REPLACEMENT PROJECT
395 HUDSON STREET
CORNWALL, NEW YORK 12518
SED #:44-03-01-06-6-009-006

SUB-CONSULTANT:

ENGINEER:



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TEL:845-467-9207 FAX:845-767-5050
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NOT VALID FOR CONSTRUCTION UNLESS
SIGNED AND SEALED BY ENGINEER

MATTHEW G. BLAKE, P.E., LEED AP
NY - 89039 NJ - GE050037 PA - PE079303
MA - 53197 CT - 32283 FL - 85928

PLUMBING DEMOLITION PLAN

DATE:		DRN	CHK	DESCRIPTION
01.26.2023		BJK	BJK	CONSTRUCTION DWGS
REV.	DATE:	DRN	CHK	DESCRIPTION

PROJECT NO.

2150

SHEET NO.

PD.201

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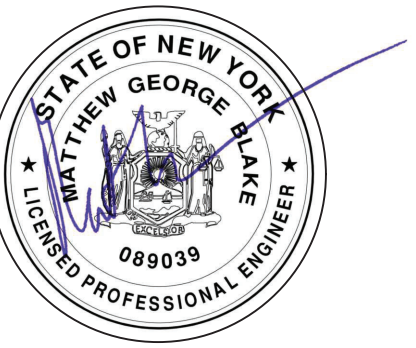
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- ① EXISTING LAVATORY TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF. DEMOLISH SANITARY, VENT & WATER PIPING BACK TO MAINS AT FLOOR AND/OR WALL & CAP; MAINTAIN SERVICES FOR RECONNECTION TO NEW FIXTURE(S)
- ② EXISTING WATER CLOSET TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF. DEMOLISH SANITARY, VENT & WATER PIPING BACK TO MAINS AT FLOOR AND/OR WALL & CAP; MAINTAIN SERVICES FOR RECONNECTION TO NEW FIXTURE(S)
- ③ EXISTING KITCHENETTE SINK TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF. DEMOLISH SANITARY, VENT & WATER PIPING BACK TO MAINS AT FLOOR AND/OR WALL & CAP; MAINTAIN SERVICES FOR RECONNECTION TO NEW FIXTURE(S)

3 EXISTING KITCHENETTE SINK TO BE DISCONNECTED, REMOVED & PROPERLY DISPOSED OF. DEMOLISH SANITARY, VENT & WATER PIPING BACK TO MAINS AT FLOOR AND/OR WALL & CAP; MAINTAIN SERVICES FOR RECONNECTION TO NEW FIXTURE(S)

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