







SHEET TITLE: SCHEDULES

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P002

**GREASE INTERCEPTOR** CAPACITY (GAL.) DIMENSIONS [LxWxH] (IN) LOCATION **MAKE & MODEL** WEST PARKING/ENTRANCE OLD CASTLE PRECAST 576-MU-1000 90x60x110

	PUMP SCHEDULE											
MARK	LOCATION	FLOW [GPM]	HEAD [FT]	DESIGN TEMP. [°F]	V/PH	HP (W)	RPM @ DUTY POINT	MAKE	MODEL	CONNECTION [IN]	OPER. WEIGHT [LBS]	NOTES
<u>CP-1</u>	MECH ROOM	4	15	120	115/1	0.0469	4491	BELL & GOSSET	ECOCIRC 20-18	1	10	1,2
<u>CP-2</u>	STORAGE 204	4	15	120	115/1	0.0469	4491	BELL & GOSSET	ECOCIRC 20-18	1	10	1,2
<u>CP-3</u>	MECH ROOM	4	15	120	115/1	0.0469	4491	BELL & GOSSET	ECOCIRC 20-18	1	10	1,2

mente and the contraction of the

1. PUMP PROVIDED WITH INTEGRAL VARIABLE SPEED DRIVE CONTROLLED BY SELFSENSING ALGORITHIM THAT DOES NOT REQUIRE REMOTE DIFFERENTIAL PRESSURE TRANSDUCER.

2. PUMPS TO BE MOUNTED AGAINST WALL. PROVIDE NECESSARY SUPPORT AND BRACING.

PLUMBING EQUIPMENT							
MARK	EQUIPMENT DESCRIPTION	EQUIPMENT MANUFACTURER	MODEL NUMBER	NOTES			
<u>WH-1</u>	GAS WATER HEATER	BRADFORD WHITE	D-100T-199-3N	COMMERCIAL FLUE DAMPER ELECTRONIC IGNITION GAS WATER HEATER (98 GAL). 120-1, 5 AMPS. PROVIDE DISCONNECT, 194 GPH RECOVERY AND 100 DEG. RISE.			
<u>WH-2</u>	GAS WATER HEATER	BRADFORD WHITE	D-100T-199-3N	COMMERCIAL FLUE DAMPER ELECTRONIC IGNITION GAS WATER HEATER (98 GAL). 120-1, 5 AMPS. PROVIDE DISCONNECT, 194 GPH RECOVERY AND 100 DEG. RISE.			
<u>WH-3</u>	GAS WATER HEATER	BRADFORD WHITE	RG250H6N	ATMOSPHERIC VENT HIGH INPUT RESIDENTIAL GAS WATER HEATER (48 GAL). 120-1, 5 AMPS. PROVIDE DISCONNECT, 70 GPH RECOVERY AND 90 DEG. RISE.			
<u>ET-1</u>	EXPANSION TANK	AMTROL	ST-12C-DD	DIAPHRAGM TANK TYPE, 150 PSI AND 120F DESIGN , NSF CERTIFIED. TANK VOLUME 4.4 GALLONS, TAN ACCEPTANCE FACTOR 0.73. WEIGHT LBS. (DRY) 9.			
<u>ET-2</u>	EXPANSION TANK	AMTROL	ST-12C-DD	DIAPHRAGM TANK TYPE, 150 PSI AND 120F DESIGN , NSF CERTIFIED. TANK VOLUME 4.4 GALLONS, TAN ACCEPTANCE FACTOR 0.73. WEIGHT LBS. (DRY) 9.			
<u>ET-3</u>	EXPANSION TANK	AMTROL	ST-449C	DIAPHRAGM TANK TYPE, 150 PSI AND 120F DESIGN , NSF CERTIFIED. TANK VOLUME 2.0 GALLONS, TAN ACCEPTANCE FACTOR 0.45. WEIGHT LBS. (DRY) 5.			

	FIXTURE	FIXURE	MODEL	COI	NNECTION	SIZE	r	MINIMUM E	RANCH SI	ZE	NOTES
MARK	DESCRIPTION	MANUFACTURER	NUMBER	W	cw	HW	w	V	cw	HW	NOTES
<u>DF-1</u>	DRINKING FOUNTAIN	ELKAY	EMABFTL8WSLK	2"	3/4"	-	2"	2"	3/4"	-	WALL MOUNTED REFRIGERATED BOTTLE FILLING STATION W/ MECHANICALLY ACTIVATED BI-LEVEL. PROVIDE WITH MLP200 BI-LEVEL IN WALL CARRIER, INSTALL PER MANUFACTURERS RECOMMENDATIONS. 120v-1 PHASE POWER. (370w/6FLA)
<u>EW-1</u>	EYE WASH	SAFETY MANUFACTURING	S0560	2"	1/2"	1/2"	2"	1-1/2"	1/2"	1/2"	STAINLESS STEEL RECESSED WALL MOUNTED SWING DOWN EYE WASH. PROVIDE OPTIONAL DRAIN PAN AND THERMOSTATIC MIXING VALVE ACCESSORIES. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
<u>FD-1</u>	FLOOR DRAIN	J.R. SMITH	2005	2"	-	-	2"	1-1/2"	-	ı	CAST IRON BODY FLOOR DRAIN WITH FLASHING COLLAR AND ADJUSTABLE STRAINER HEAD. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
<u>FS-1</u>	FLOOR SINK	MIFAB	FS720-150	4"	-	-	2"	1-1/2"	-	-	12"x12"x6" DEEP CAST IRON FLOOR AREA AND INDIRECT SANITARY WASTE DRAIN W/ WHITE ACRESISTANT PORCELAIN ENAMEL, LOOSE SET GRATE AND ANTI-SPLASH DOME STRAINER.
<u>FS-2</u>	FLOOR SINK	MIFAB	FS730-150	3"	-	-	2"	1-1/2"	-	-	12"x12"x8" DEEP CAST IRON FLOOR ARE AND INDIRECT SANITARY WASTE DRAIN W/ WHITE ACI RESISTANT PORCELAIN ENAMEL, LOOSE SET GRATE AND ANTI-SPLASH DOME STRAINER.
<u>FS-3</u>	FLOOR SINK	MIFAB	FS720-175	2"	-	-	2"	1-1/2"	-	-	12"x12"x6" DEEP CAST IRON FLOOR AREA AND INDIRECT SANITARY WASTE DRAIN W/ WHITE ACRESISTANT PORCELAIN ENAMEL, LOOSE SET GRATE AND ANTI-SPLASH DOME STRAINER.
<u>HB-1</u>	NON-FREEZE WALL HYDRANT	WOODFORD	B67	-	3/4"	-	-	-	3/4"	-	AUTOMATIC DRAINING FREEZELESS WALL HYDRANT WITH MODEL 50 HIGH FLOW DOUBLE CHEBACKFLOW PREVENTER. HOSE BIBS TO BE LOCATED IN FREEZE PROTECTED LOCATIONS.
<u>LV-1</u>	LAVATORY	SLOAN	SS-3017	2"	1/2"	1/2"	2"	1-1/2"	1/2"	1/2"	ADA WHITE ENAMELLED CAST IRON WALL MOUNTED BACKSPLASH LAVATORY W/ BATTERY POWERED DECK MOUNTED SLOAN SF-2350 0.35 GPM FAUCET, 4" CENTERS, SUPPLIES AND STOPPROFLO TRAP COVER, AND JR SMITH WALL CARRIER.
MS-1	MOP SINK	ZURN	Z1996-36	2"	1/2"	1/2"	2"	1-1/2"	1/2"	1/2"	MOLDED HIGH DENSITY COMPOSITE BASIN MOP SINK WITH SELF DRAINING MOP SHELF, PROV  ALL SUPPLIES AND STOPS, AND ELKAY LK940BPOTT4H 4.0 GRW WALL MOUNTED FAUSET.
PRZA-1	PRESSURE REDUCING BACKFLOW PREVENTER	WATTS	LF009	-	1"	-	-	-	1"	-	1" LEAD FREE WALL MOUNTED REDUCED PRESSURE BACKFLOW PREVENTER. PROVIDE AIR GAF CONNECTION ON WATER OUTLET UPON INSTALLATION. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
<u>RD-1</u>	DUAL OUTLET ROOF DRAIN/OVERFLOW	WATTS	RD700	3"	-	-	3"	-	-	-	EPOXY COATED CAST IRON DUAL OUTLET ROOF DRAIN/OVERFLOW COMBINATION W/ FLASHIN CLAMP, INTEGRAL GRAVEL STOP, 4" INTERNAL OVERFLOW STANDPIPE, SECURED DUCTILE IRON DOME AND NO HUB OUTLETS.
<u>S-1</u>	SINK	ELKAY	LRAD202255	2"	1/2"	1/2"	2"	1-1/2"	1/2"	1/2"	ADA COMPLIANT STAINLESS STEEL DROP-IN SINGLE BOWL SINK. PROVIDE W/ ELKAY LK406LGN08T4 GOOSENECK 1.5 GPM FAUCET ON 4" CENTERS, SUPPLIES AND STOPS, AND PROTRAP COVER.
<u>S-2</u>	SINK	ELKAY	LRAD312260	2"	1/2"	1/2"	2"	1-1/2"	1/2"	1/2"	ADA COMPLIANT STAINLESS STEEL DROP-IN SINGLE BOWL SINK. PROVIDE W/ ELKAY LK406LGN08T4 GOOSENECK 1.5 GPM FAUCET ON 4" CENTERS, SUPPLIES AND STOPS, AND PROTRAP COVER.
<u>S-3</u>	SINK	-	-	2"	1/2"	1/2"	2"	1-1/2"	1/2"	1/2"	CUSTOM THREE FAUCET, SINGLE DRAIN TROUGH HAND SINK. 16 GAUGE STAINLESS STEEL CONSTRUCTION W/ CONTINUOUS CLEAT HANGING SYSTEM. PROVIDE CHICAGO 772 FAUCETS V 6" SPOUTS. REFER TO OWNER PROVIDED DETAIL SHEET.
<u>TP-1</u>	ELECTRONIC TRAP PRIMER	J.R. SMITH	270FM SERIES	-	1/2"	-	-	-	1/2"	-	ELECTRONIC TRAP PRIMER WITH SIX OUTLETS AND GALVANIZED STEEL FLUSH MOUNT ENCLOSURE. 120v-60hz POWER. (0.10A-120)
<u>TP-2</u>	PRESSURE DIFFERENTIAL TRAP PRIMER	J.R. SMITH	2694	-	1/2"	-	-	-	1/2"	-	LEAD FREE BRASS 3PSI MINIMUM PRESSURE DROP ACTIVATED TRAP PRIMER.
<u>WB-1</u>	WASHER BOX	SIOUX CHIEF	MODEL	2"	3/4"	3/4"	2"	1-1/2"	3/4"	3/4"	IAPMO LISTED WASHING MACHINE OUTLET BOX WITH A TAMPER RESISTANT CAP. INSTALL PER MANUFACTURERS RECOMMENDATIONS.
<u>WC-1</u>	WATER CLOSET	AMERICAN STANDARD	BABY DEVORO	3"	1/2"	-	3"	2"	1/2"	-	FLOOR MOUNTED VITREOUS CHINA MANUAL FLUSH CHILDRENS 10" HIGH ELONGATED WATER CLOSET. INCLUDE "CARDIFF SLOW-CLOSE TOILET SEAT - 5257A.65MT" UPON INSTALLATION.
<u>WC-2</u>	ADA WATER CLOSET	AMERICAN STANDARD	BABY DEVORO ADA	3"	1/2"	-	3"	2"	1/2"	-	FLOOR MOUNTED VITREOUS CHINA MANUAL FLUSH CHILDRENS 10" HIGH ELONGATED ADA WATER CLOSET. INCLUDE "CARDIFF SLOW-CLOSE TOILET SEAT - 5257A.65MT" UPON INSTALLATION.
<u>WC-3</u>	WATER CLOSET	AMERICAN STANDARD	CADET 2467.016	3"	1/2"	-	3"	2"	1/2"	-	FLOOR MOUNTED VITREOUS CHINA MANUAL FLUSH CADET HEIGHT ELONGATED PRESSURE-ASSISTED ADA WATER CLOSET. (1.6GPF) INCLUDE "CARDIFF SLOW-CLOSE TOILET SEA 5257A.65MT" UPON INSTALLATION.

	DFU CALC	ULATIONS				
MARK	FIXTURE GROUP	OCC. TYPE	QTY.	MIN TRAP SIZE	DFU EACH	TOT. DFU
	SECTION 'A'					
<u>S-1</u>	SINK KITCHEN, DOMESTIC	PUBLIC	16	1-1/2"	2	32
<u>S-2</u>	SINK KITCHEN, DOMESTIC	PUBLIC	16	1-1/2"	2	32
<u>S-3</u>	SINK WASH, EACH SET OF FAUCETS	PUBLIC	48	-	2	96
<u>LV-1</u>	LAVATORY, SINGLE	PUBLIC	9	1-1/4"	1	9
<u>WC-1</u>	WATER CLOSET, 1.6 GPF FLUSHOMETER TANK	PUBLIC	8	3"	4	32
<u>WC-2</u>	WATER CLOSET, 1.6 GPF FLUSHOMETER TANK	PUBLIC	8	3"	4	32
<u>WC-3</u>	WATER CLOSET, 1.6 GPF FLUSHOMETER VALVE	PUBLIC	1	3"	4	4
MS-1	SINK SERVICE OR MOP BASIN	PUBLIC	1	2"	3	3
<u>WB-1</u>	CLOTHES WASHER, DOMESTIC, STANDPIPE	PUBLIC	3	2"	3	9
FS-1	FLOOR DRAIN	PUBLIC	1	2"	2	2
FD-1	FLOOR DRAIN, EMERGENCY	PUBLIC	11	2"	0	0
	SECTION 'B'		SU	BTOTAL		251
DF-1	DRINKING FOUNTAIN OR WATER COOLER	PUBLIC	1	1-1/4"	0.5	0.5
<u>S-1</u>	SINK KITCHEN, DOMESTIC	PUBLIC	8	1-1/2"	2	16
<u>S-2</u>	SINK KITCHEN, DOMESTIC	PUBLIC	8	1-1/2"	2	16
<u>S-3</u>	SINK WASH, EACH SET OF FAUCETS	PUBLIC	21	-	2	42
LV-1	LAVATORY, SINGLE	PUBLIC	7	1-1/4"	1	7
WC-1	WATER CLOSET, 1.6 GPF FLUSHOMETER TANK	PUBLIC	4	3"	4	16
WC-2	WATER CLOSET, 1.6 GPF FLUSHOMETER TANK	PUBLIC	4	3"	4	16
WC-3	WATER CLOSET, 1.6 GPF FLUSHOMETER TANK	PUBLIC	3	3"	4	12
FD-1	FLOOR DRAIN, EMERGENCY	PUBLIC	8	2"	0	0
			SU	BTOTAL		125.5
	GREASE INTERCEPT	OR CALCULAT	TIONS	5		
MARK	FIXTURE GROUP	OCC. TYPE	QTY	MIN TRAP SIZE	DFU EACH	TOT. DFU

	GREASE INTERCELL TOR CALCULATIONS							
MARK	FIXTURE GROUP	OCC. TYPE	QTY	MIN TRAP SIZE	DFU EACH	TOT. DFU		
<u>FS-1</u>	INDIRECT WASTE RECEPTOR	-	-	4"	8	8		
=	SINK WASH, EACH SET OF FAUCETS	PUBLIC	4	-	2	-		
<u>FS-2</u>	INDIRECT WASTE RECEPTOR	-	-	1-1/2"	2	2		
=	COMMERCIAL DISHWASHER	PUBLIC	1	-	2	-		
<u>FS-3</u>	INDIRECT WASTE RECEPTOR	-	-	3"	6	6		
=	SINK WASH, EACH SET OF FAUCETS	PUBLIC	3	-	2	-		
FD-1	FLOOR DRAIN, EMERGENCY	PUBLIC	2	2"	0	0		
		(	GREASE W	ASTE SUBTOTA	۸L	16		
		SITE WASTE TOTAL				414.5		
NOTES:								

MARK	FIXTURE GROUP	OCC. TYPE	QTY	CW WSFU EACH	HW WSFU EACH	TOT. HW WSFU	TOT. CW WSFU
	SECTION 'A'						
<u>S-1</u>	SINK, KITCHEN, DOMESTIC	PUBLIC	16	1.5	1.125	18	24
<u>S-2</u>	SINK, KITCHEN, DOMESTIC	PUBLIC	16	1.5	1.125	18	24
<u>S-3</u>	SINK, WASHUP, EACH SET OF FAUCETS	PUBLIC	48	2	1.5	72	96
<u>LV-1</u>	LAVATORY	PUBLIC	9	1	0.75	6.75	9
WC-1	WATER CLOSET, 1.6 GPF FLUSHOMETER TANK	PUBLIC	8	2.5	0	0	20
<u>WC-2</u>	WATER CLOSET, 1.6 GPF FLUSHOMETER TANK	PUBLIC	8	2.5	0	0	20
<u>WC-3</u>	WATER CLOSET, 1.6 GPF FLUSHOMETER VALVE	PUBLIC	1	5	0	0	5
<u>MS-1</u>	SINK, SERVICE OR MOP BASIN	PUBLIC	1	3	2.25	2.25	3
<u>WB-1</u>	CLOTHES WASHER	PUBLIC	3	4	3	9	12
<u>HB-1</u>	HOSE BIBB	PUBLIC	1	2.5	0	0	2.5
<u>HB-1</u>	HOSE BIBB, EACH ADDITIONAL	PUBLIC	5	1	0	0	5
	SECTION 'B'			SUB TOTAL	-	126	220.5
<u>DF-1</u>	DRINKING FOUNTAIN OR WATER COOLER	PUBLIC	1	0.5	0	0	0.5
<u>S-1</u>	SINK, KITCHEN, DOMESTIC	PUBLIC	8	1.5	1.125	9	12
<u>S-2</u>	SINK, KITCHEN, DOMESTIC	PUBLIC	8	1.5	1.125	9	12
<u>S-3</u>	SINK, WASHUP, EACH SET OF FAUCETS	PUBLIC	21	2	1.5	31.5	42
<u>LV-1</u>	LAVATORY	PUBLIC	7	1	0.75	5.25	7
<u>WC-1</u>	WATER CLOSET, 1.6 GPF FLUSHOMETER TANK	PUBLIC	4	2.5	0	0	10
WC-2	WATER CLOSET, 1.6 GPF FLUSHOMETER TANK	PUBLIC	4	2.5	0	0	10
<u>WC-3</u>	WATER CLOSET, 1.6 GPF FLUSHOMETER VALVE	PUBLIC	3	5	0	0	15
<u>HB-1</u>	HOSE BIBB, EACH ADDITIONAL	PUBLIC	4	1	0	0	4
	KITCHEN			SUB TOTAL	#N/A	54.75	112.5
<u>-</u>	DISHWASHER, COMMERCIAL	PUBLIC	1	1.5	1.125	1.125	1.5
<u>-</u>	SINK, KITCHEN, DOMESTIC	PUBLIC	6	1.5	1.125	6.75	9
<u>-</u>	SINK, BAR	PUBLIC	1	2	1.5	1.5	2
					YSTEM TYPE: WSFU FLOW:		Flush Valves 117.3 GPM
	FLOW AND	PRESSURE CALCULATION	NS				
ESIGN F	LOW RATE  SITE WATER SUPPLY DES	IGN INFORMATION					117.3 GPM
ALL V CIT		IGN IN ONVIATION					EE O DOLC
	E SERVICE PRESSURE						55.0 PSIG
	QUIVALENT PIPE LENGTH FROM METER TO POC 5 FEET FROM BUILDIN	10					275.0 FT 3" IN
	E FROM WATER METER TO POC 5 FEET FROM BUILDING	. TO DOC 5 5557 5DOM DU	III DINIC				
	JRE LOSS FROM PIPING AT DESIGN FLOW RATE FROM WATER METER	TO POC 5 FEET FROM BU	ILDING		211 MATTER		3.5 PSIG
	R METER PRESSURE LOSS				2" METER		3.5 PSIG
C) BACKFLOW PREVENTER PRESSURE LOSS 3" BACKFLOW							3.5 PSIG
) CTATIC	C (GRAVITY) HEAD REQUIRED FROM WATER METER TO POC 5 FEET FF TE LEVEL PRESSURE LOSS (A+B+C+D)	KOM BUILDING			5.0 FT		2.2 PSIG
	vel ene muke 1000 (A+K+L+D)						12.7 PSIG
	BUILDING WATER SUPPLY D	DESIGN INFORMATION					
OTAL SIT	BUILDING WATER SUPPLY D						330 0 FT
OTAL SIT	BUILDING WATER SUPPLY DE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICA	ALLY REMOTE FIXTURE	E FIXTI IRI				330.0 FT
OTAL SIT	BUILDING WATER SUPPLY DE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICA BUIVALENT PIPE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST	ALLY REMOTE FIXTURE T HYDRAULICALLY REMOT					400.0 FT
OTAL SIT  OTAL PIF  OTAL EQ	BUILDING WATER SUPPLY E PE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICA QUIVALENT PIPE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST RVICE PRESSURE AT POC 5 FEET FROM BUILDING (DAILY SITE SERVICE)	ALLY REMOTE FIXTURE T HYDRAULICALLY REMOT					400.0 FT 42.4 PSIG
OTAL SIT  OTAL PIF  OTAL EQ  OAILY SER  RV MAX	BUILDING WATER SUPPLY DE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICA QUIVALENT PIPE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST RVICE PRESSURE AT POC 5 FEET FROM BUILDING (DAILY SITE SERVICE IMUM PRESSURE SET POINT	ALLY REMOTE FIXTURE T HYDRAULICALLY REMOT					400.0 FT
OTAL PIF OTAL EQ PAILY SER RV MAX	BUILDING WATER SUPPLY E PE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICA QUIVALENT PIPE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST RVICE PRESSURE AT POC 5 FEET FROM BUILDING (DAILY SITE SERVICE)	ALLY REMOTE FIXTURE T HYDRAULICALLY REMOT					400.0 FT 42.4 PSIG NA
OTAL SIT OTAL PIF OTAL EO PAILY SER RV MAX RV ALLO	BUILDING WATER SUPPLY DE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICATURY PIPE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST RVICE PRESSURE AT POC 5 FEET FROM BUILDING (DAILY SITE SERVICE IMUM PRESSURE SET POINT WABLE FALLOFF PRESSURE LOSS  ERVICE PRESSURE AT BUILDING	ALLY REMOTE FIXTURE T HYDRAULICALLY REMOT PRESSURE - TOTAL SITE LE	EVEL PRES	SURE LOSS)	10.0 FT		400.0 FT 42.4 PSIG NA NA
OTAL SIT OTAL PIF OTAL EQ PAILY SEF RV MAX RV ALLO DESIGN SI	BUILDING WATER SUPPLY DE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICATURINATION POC 5 FEET FROM BUILDING TO MOST RIVICE PRESSURE AT POC 5 FEET FROM BUILDING (DAILY SITE SERVICE IMUM PRESSURE SET POINT  WABLE FALLOFF PRESSURE LOSS  ERVICE PRESSURE AT BUILDING  (GRAVITY) HEAD REQUIRED FROM POC 5 FEET FROM BUILDING TO ME	ALLY REMOTE FIXTURE T HYDRAULICALLY REMOT PRESSURE - TOTAL SITE LE	EVEL PRES	SURE LOSS)	10.0 FT		400.0 FT 42.4 PSIG NA NA 42.4 PSIG
OTAL SIT OTAL PIF OTAL EO DAILY SEF RV MAX RV ALLO DESIGN SI ) STATIC ) HOT W	BUILDING WATER SUPPLY DE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICATURY PIPE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST RVICE PRESSURE AT POC 5 FEET FROM BUILDING (DAILY SITE SERVICE IMUM PRESSURE SET POINT WABLE FALLOFF PRESSURE LOSS  ERVICE PRESSURE AT BUILDING	ALLY REMOTE FIXTURE T HYDRAULICALLY REMOT PRESSURE - TOTAL SITE LE	EVEL PRES	SURE LOSS)	10.0 FT		400.0 FT  42.4 PSIG  NA  NA  42.4 PSIG  4.3 PSIG
OTAL SIT OTAL PIF OTAL EQ PAILY SEF RV MAX RV ALLO PESIGN SI ) STATIC ) HOT W	BUILDING WATER SUPPLY DE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICATURALENT PIPE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST RVICE PRESSURE AT POC 5 FEET FROM BUILDING (DAILY SITE SERVICE IMUM PRESSURE SET POINT  WABLE FALLOFF PRESSURE LOSS  ERVICE PRESSURE AT BUILDING  (GRAVITY) HEAD REQUIRED FROM POC 5 FEET FROM BUILDING TO MATER MIXING VALVE PRESSURE DROP (IF MOST HYDRAULICALLY REM	ALLY REMOTE FIXTURE T HYDRAULICALLY REMOT PRESSURE - TOTAL SITE LE	EVEL PRES	SURE LOSS)	10.0 FT		400.0 FT  42.4 PSIG  NA  NA  42.4 PSIG  4.3 PSIG  0.0 PSIG
OTAL SIT OTAL PIF OTAL EQ PAILY SEF RV MAX RV ALLO PESIGN SI ) STATIC ) HOT W OTAL PR EQUIRE	BUILDING WATER SUPPLY DE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICA QUIVALENT PIPE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST RVICE PRESSURE AT POC 5 FEET FROM BUILDING (DAILY SITE SERVICE IMUM PRESSURE SET POINT WABLE FALLOFF PRESSURE LOSS ERVICE PRESSURE AT BUILDING  (GRAVITY) HEAD REQUIRED FROM POC 5 FEET FROM BUILDING TO MATER MIXING VALVE PRESSURE DROP (IF MOST HYDRAULICALLY REMESSURE LOSS (E+F)	ALLY REMOTE FIXTURE T HYDRAULICALLY REMOT PRESSURE - TOTAL SITE LE	EVEL PRES	SURE LOSS)	10.0 FT		400.0 FT  42.4 PSIG  NA  NA  42.4 PSIG  4.3 PSIG  0.0 PSIG  4.3 PSIG
OTAL SIT OTAL PIF OTAL EQ PAILY SEF RV MAX RV ALLO PESIGN SI ) STATIC ) HOT W OTAL PR EQUIRED	BUILDING WATER SUPPLY DE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICATURALENT PIPE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST RAVICE PRESSURE AT POC 5 FEET FROM BUILDING (DAILY SITE SERVICE IMUM PRESSURE SET POINT  WABLE FALLOFF PRESSURE LOSS  ERVICE PRESSURE AT BUILDING  (GRAVITY) HEAD REQUIRED FROM POC 5 FEET FROM BUILDING TO MATER MIXING VALVE PRESSURE DROP (IF MOST HYDRAULICALLY REMESSURE LOSS (E+F)  DE RESIDUAL PRESSURE AT FURTHEST UNIT/FIXTURE  E PRESSURE FOR PIPING	ALLY REMOTE FIXTURE T HYDRAULICALLY REMOT PRESSURE - TOTAL SITE LE	EVEL PRES	SURE LOSS)	10.0 FT		400.0 FT  42.4 PSIG  NA  NA  42.4 PSIG  4.3 PSIG  0.0 PSIG  4.3 PSIG  25.0 PSIG  13.1 PSIG
OTAL SIT OTAL PIF OTAL EQ PAILY SEF RV MAX RV ALLO PESIGN SI ) STATIC ) HOT W OTAL PR EQUIRED	BUILDING WATER SUPPLY DE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICA QUIVALENT PIPE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST RVICE PRESSURE AT POC 5 FEET FROM BUILDING (DAILY SITE SERVICE IMUM PRESSURE SET POINT  WABLE FALLOFF PRESSURE LOSS  ERVICE PRESSURE AT BUILDING  (GRAVITY) HEAD REQUIRED FROM POC 5 FEET FROM BUILDING TO MATER MIXING VALVE PRESSURE DROP (IF MOST HYDRAULICALLY REMESSURE LOSS (E+F)  D' RESIDUAL PRESSURE AT FURTHEST UNIT/FIXTURE  LE PRESSURE FOR PIPING  MAIN NOMINAL PIPE SIZE	ALLY REMOTE FIXTURE T HYDRAULICALLY REMOT PRESSURE - TOTAL SITE LE	MOTE FIXT	FURE NNECTION)	10.0 FT		400.0 FT  42.4 PSIG  NA  NA  42.4 PSIG  4.3 PSIG  0.0 PSIG  4.3 PSIG  25.0 PSIG
OTAL PIF OTAL EQ AILY SER RV MAX RV ALLO ESIGN SI ) HOT W OTAL PR EQUIRED VAILABL ERVICE M	BUILDING WATER SUPPLY DE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST HYDRAULICA QUIVALENT PIPE LENGTH FROM POC 5 FEET FROM BUILDING TO MOST RVICE PRESSURE AT POC 5 FEET FROM BUILDING (DAILY SITE SERVICE IMUM PRESSURE SET POINT  WABLE FALLOFF PRESSURE LOSS  ERVICE PRESSURE AT BUILDING  (GRAVITY) HEAD REQUIRED FROM POC 5 FEET FROM BUILDING TO MATER MIXING VALVE PRESSURE DROP (IF MOST HYDRAULICALLY REMESSURE LOSS (E+F)  D' RESIDUAL PRESSURE AT FURTHEST UNIT/FIXTURE  LE PRESSURE FOR PIPING  MAIN NOMINAL PIPE SIZE	ALLY REMOTE FIXTURE T HYDRAULICALLY REMOT PRESSURE - TOTAL SITE LE	MOTE FIXT	FURE NNECTION)	10.0 FT		400.0 FT  42.4 PSIG  NA  NA  42.4 PSIG  4.3 PSIG  0.0 PSIG  4.3 PSIG  25.0 PSIG  13.1 PSIG

1. SIZED IN ACCORDANCE WITH OPSC 2021, APPENDIX A.

2. CONTRACTOR SHALL VERIFY SUPPLY PRESSURE, METER/BACKFLOW SIZE & TYPE AND REPORT ANY DISCREPANCIES TO ENGINEER.

3. METER PRESSURE LOSS BASED ON 2" XYLEM OMNI+ COMPOUND C2 WATER METER AT DESIGN FLOW RATE. 4. BACKFLOW PREVENTER PRESSURE LOSS BASED ON 3" WATTS MASTERSERIES LF850 AT DESIGN FLOW RATE.







SHEET TITLE:

**CALCULATIONS** 

REVISIONS: # DESCRP. DATE ADD 4 08/29/2025

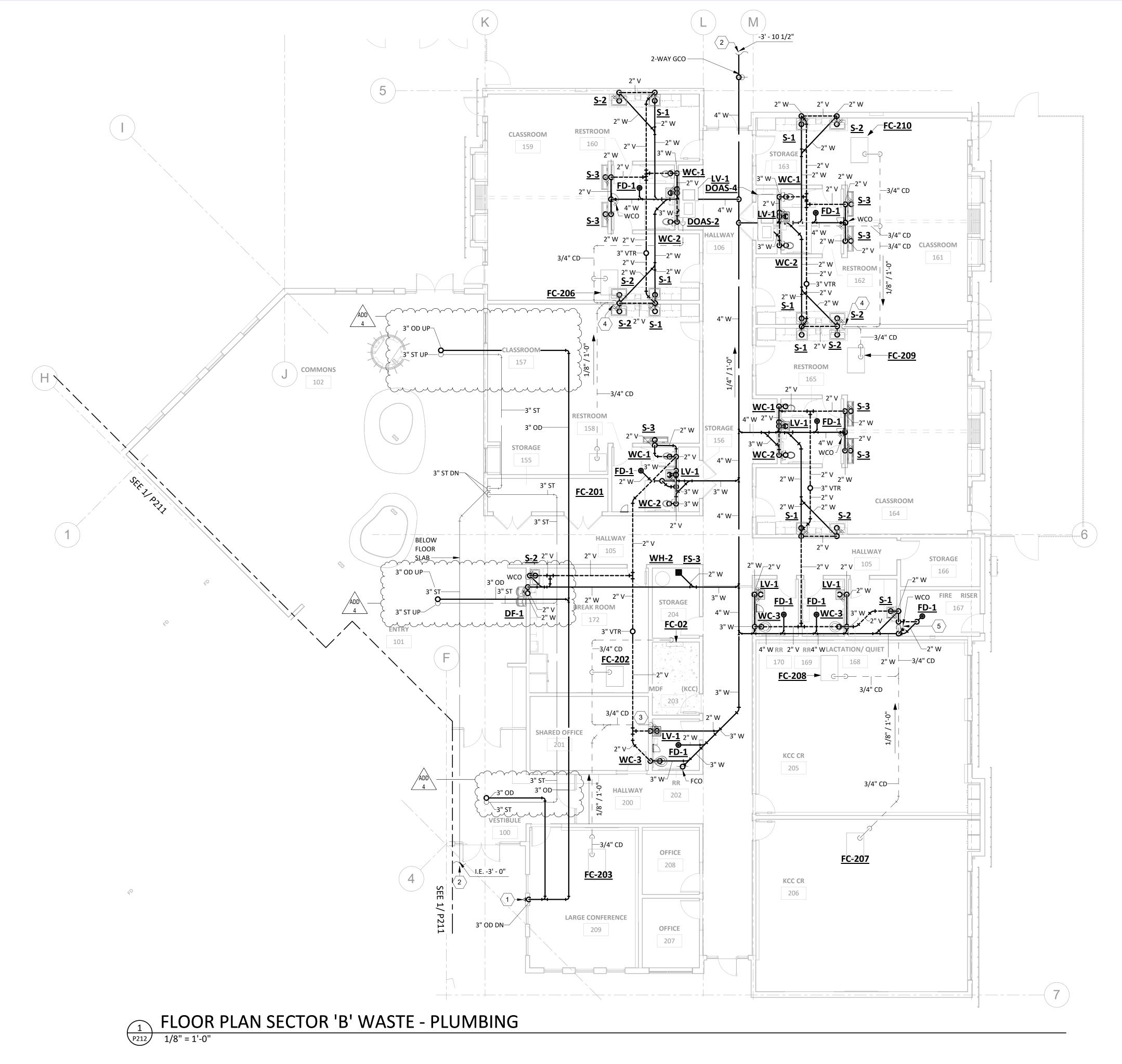
ISSUE DATE: 08/29/2025



SHEET TITLE: **FLOOR PLAN SECTOR A** WASTE -**PLUMBING** 

REVISIONS: # DESCRP.

ISSUE DATE: 08/29/2025



### **GENERAL PLUMBING NOTES:**

A. COORDINATE ALL BELOW GRADE PLUMBING ROUTING WITH STRUCTURAL ENGINEER PRIOR TO INSTALLATION.

### **KEY NOTES**



- 3" DOWNSPOUT, MOUNT 18" ABOVE GRADE.
- SEE CIVIL FOR CONTINUATION
- ROUTE CONDENSATE TO LV-1 TAILPIECE.
- ROUTE CONDENSATE TO S-2 TAILPIECE.
- ROUTE CONDENSATE TO S-1 TAILPIECE.



SHEET TITLE: **FLOOR PLAN SECTOR B** WASTE -**PLUMBING** 

REVISIONS: # DESCRP.

ADD 4

ISSUE DATE: 08/29/2025

ARCHITECTURE •



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OREGON | CALIFORNIA

BID AND PERMIT SET
KCC CHILDCARE LEARNIN
CENTER

SHEET TITLE:
FLOOR PLAN
SECTOR A
WATER PLUMBING

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- COORDINATE CROSSING LOCATION WITH MECHANICAL HYDRONIC PIPING AND ARCHITECT PRIOR TO INSTALLATION.
- 2. PROVIDE HEAT TRACE ON ALL HW AND CW LINES WITHIN EXTERIOR WALLS.

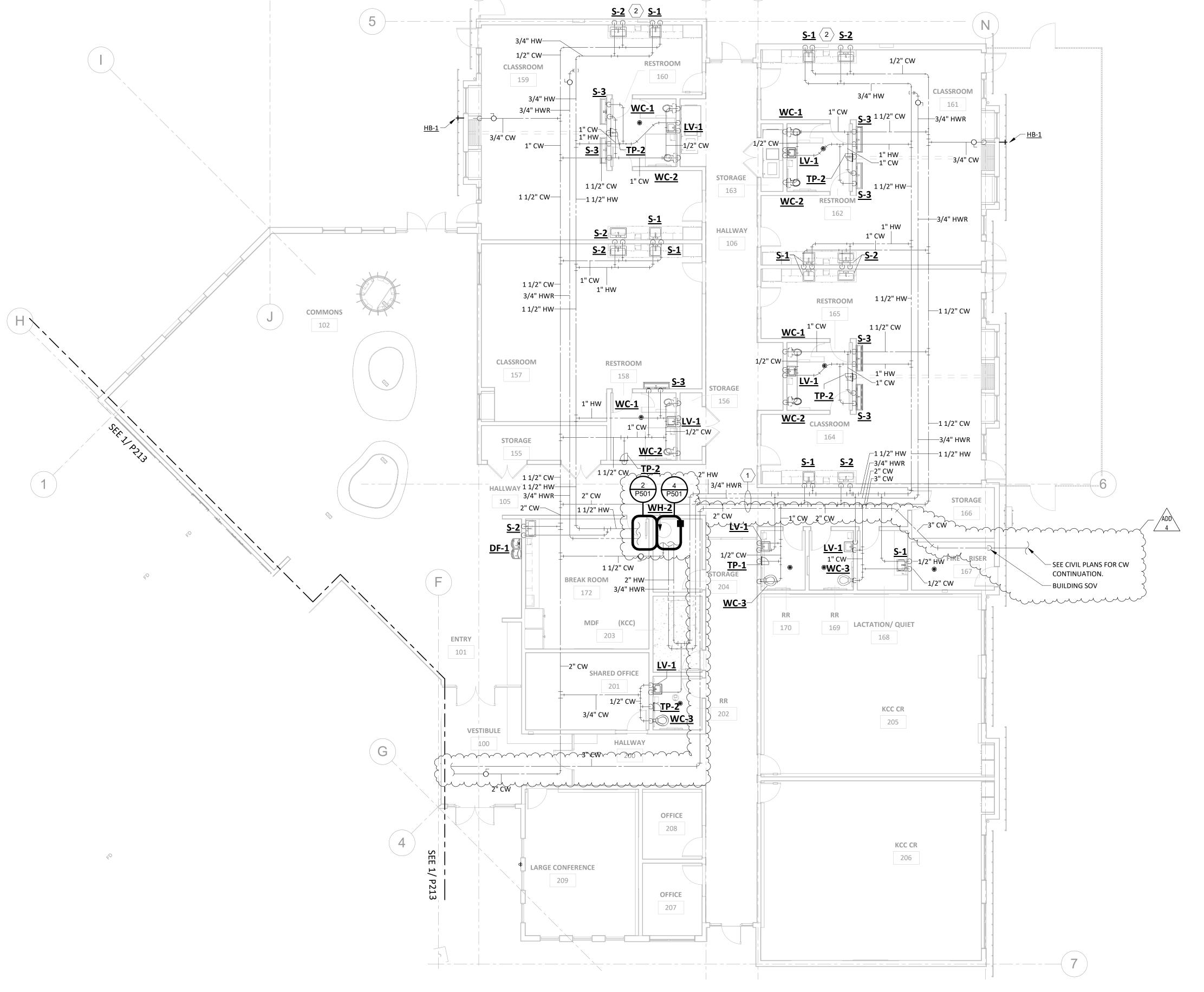




SHEET TITLE: **FLOOR PLAN SECTOR B** WATER -**PLUMBING** 

REVISIONS: # DESCRP. ADD 4

ISSUE DATE: 08/29/2025





- GREASE WASTE VENT, DO NOT COMBINE WITH ANY OTHER VENTING SYSTEM.
- 2. GREASE INTERCEPTOR VENT, DO NOT COMBINE WITH ANY OTHER VENTING SYSTEM.







PERMIT SET HILDCARE LEARNING

SHEET TITLE:

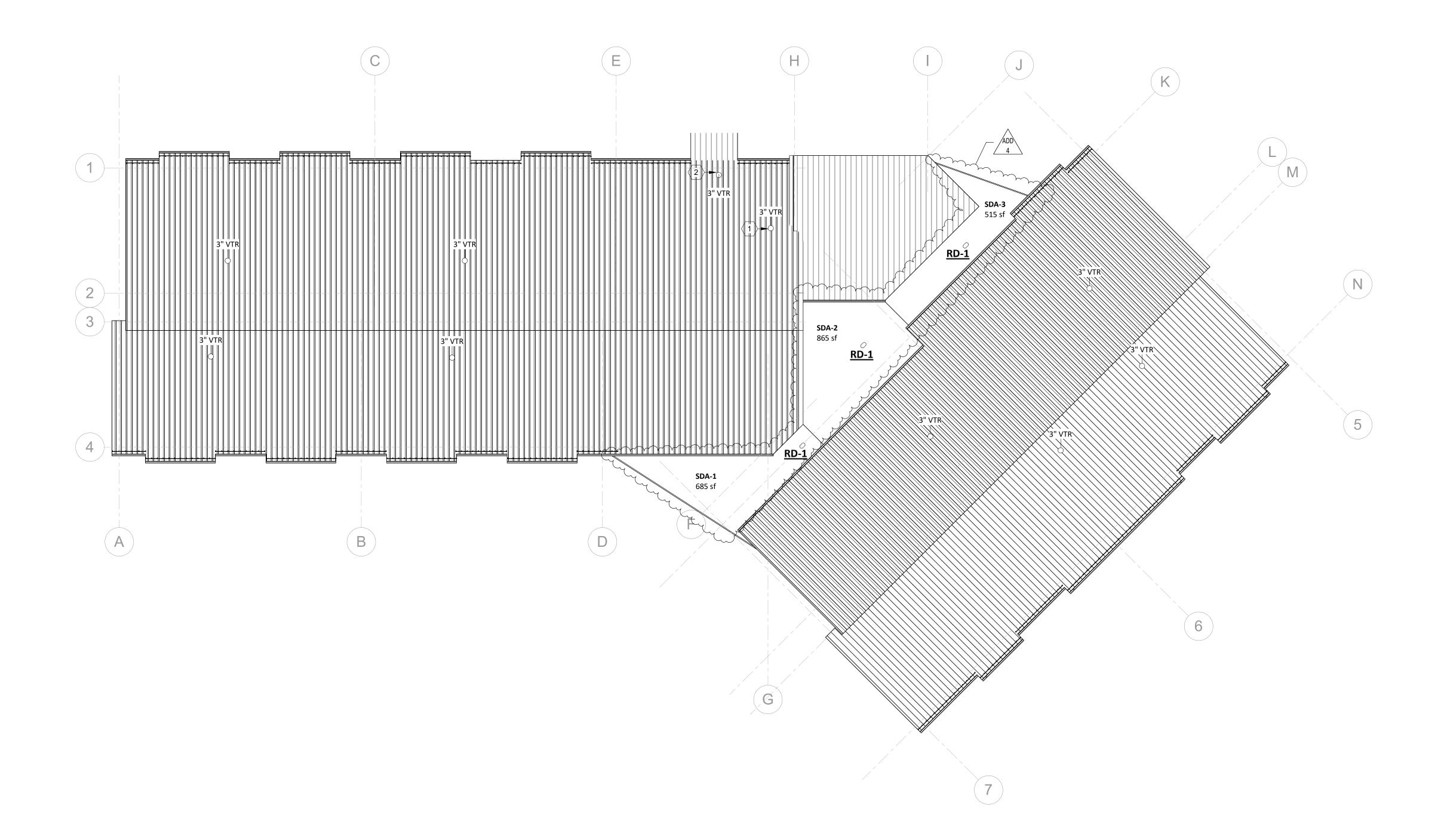
ROOF PLUMBING

REVISIONS: # DESCRP.

1 ADD 4

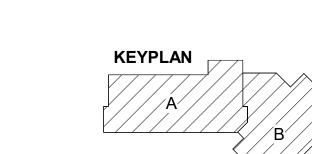
ISSUE DATE: 08/29/2025

P231



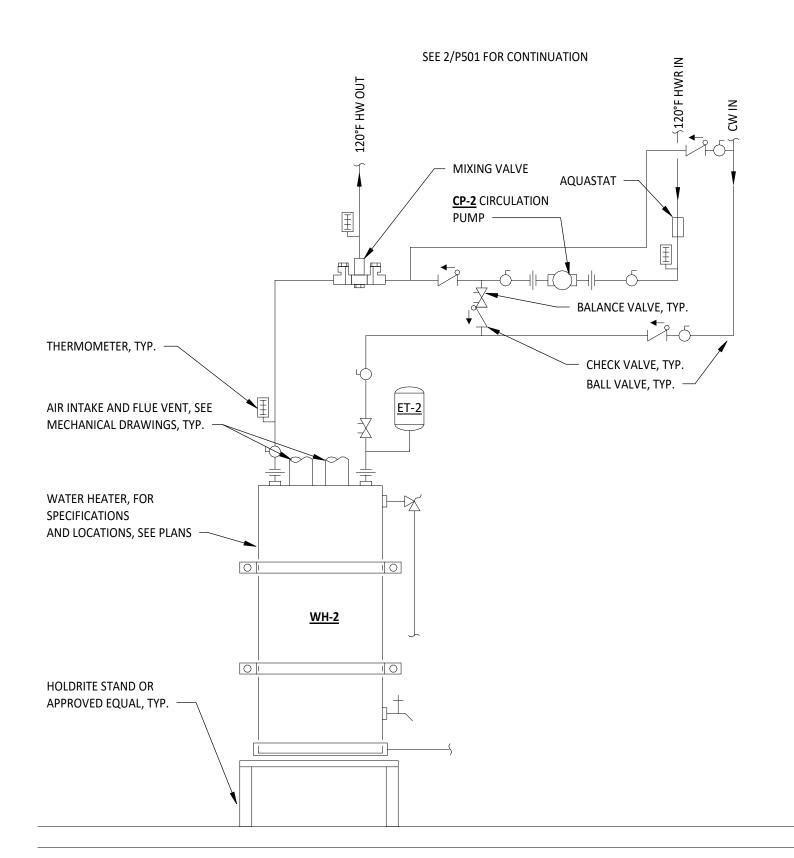
ROOF - PLUMBING

1/16" = 1'-0"



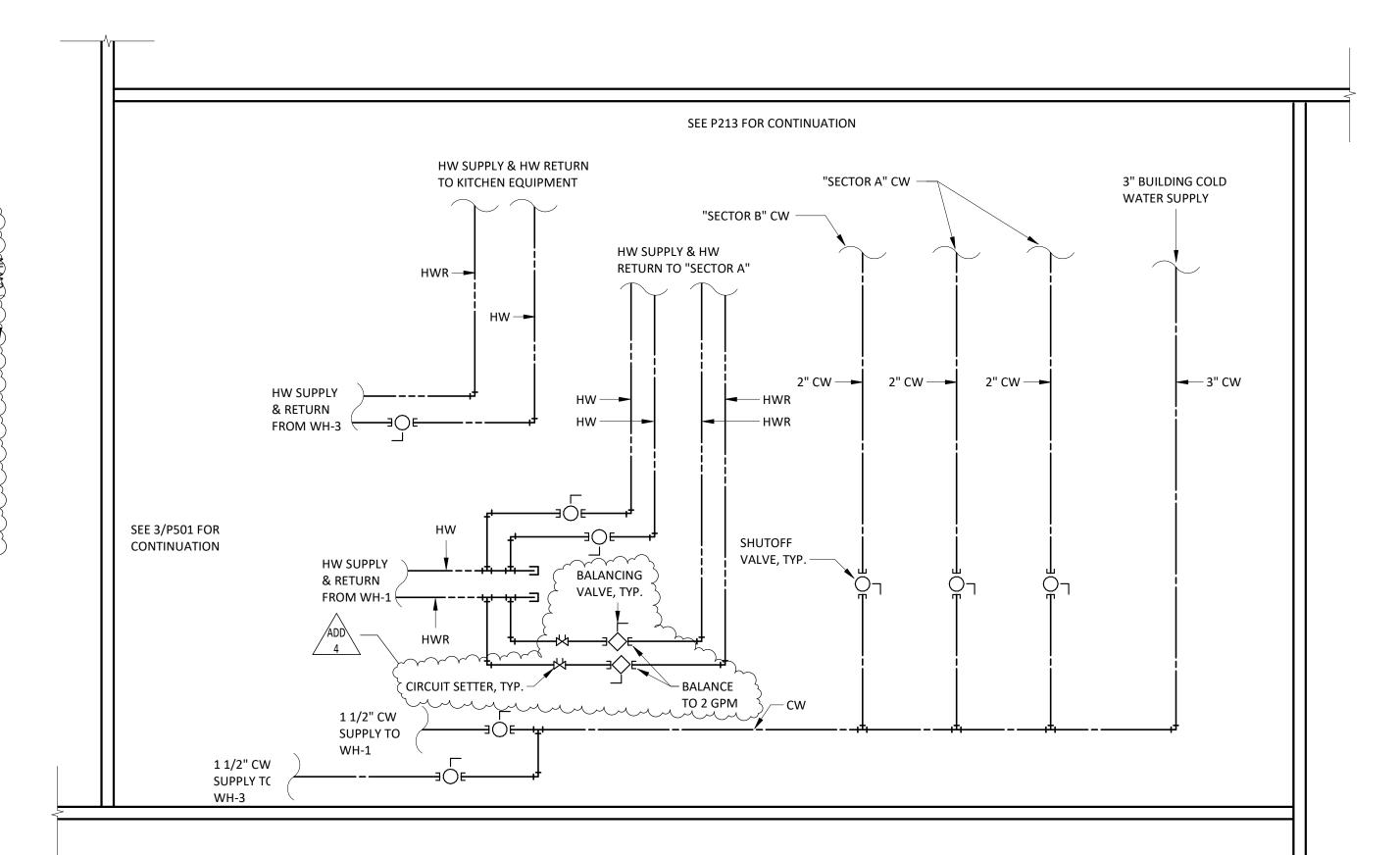
SEE 1/P501 FOR CONTINUATION

# WATER HEATER 1 & 3 SCHEMATIC P501 NTS

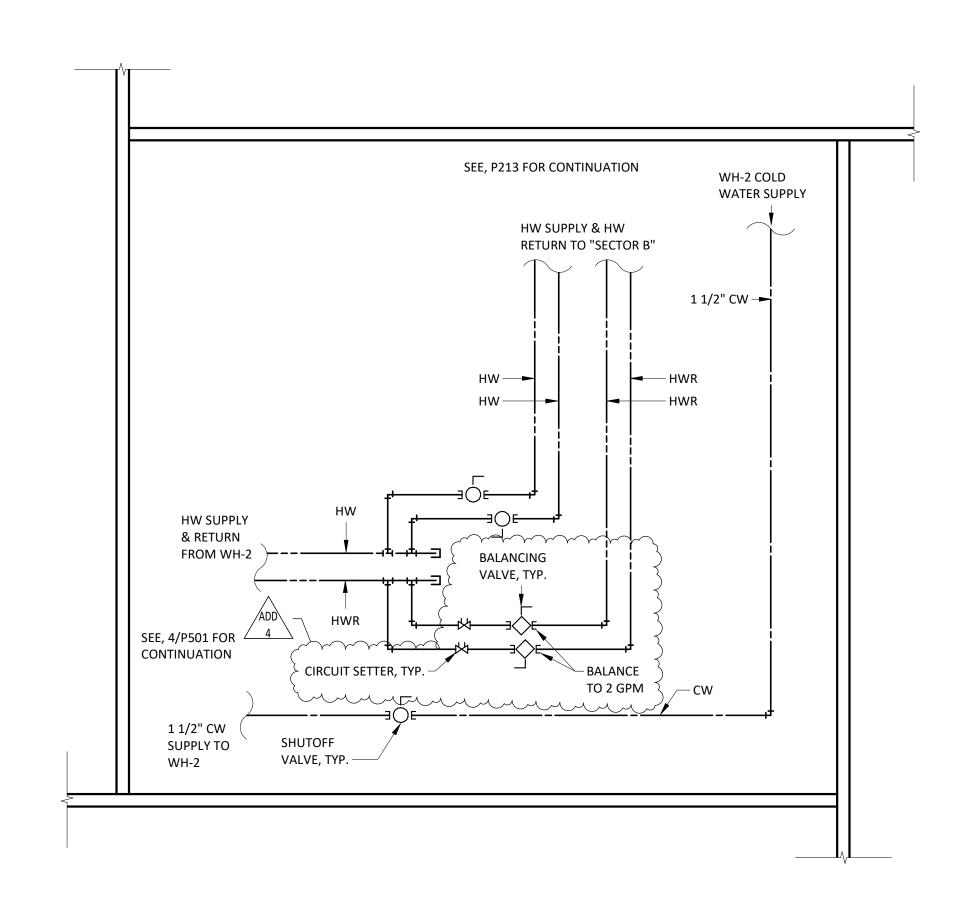


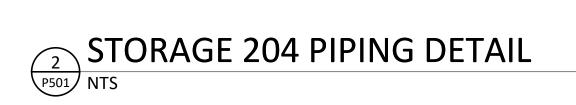
WATER HEATER 2 SCHEMATIC

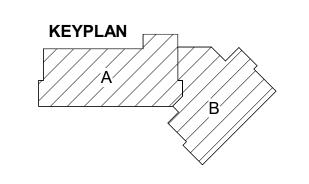
NTS



# CUSTODIAL CLOSET 145 PIPING DETAIL NTS







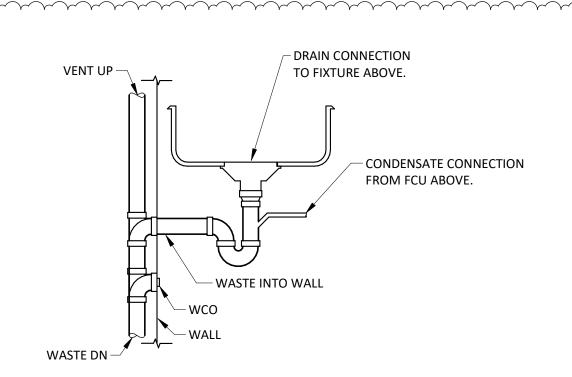




SHEET TITLE: **PLUMBING SCHEMATIC DIAGRAMS** 

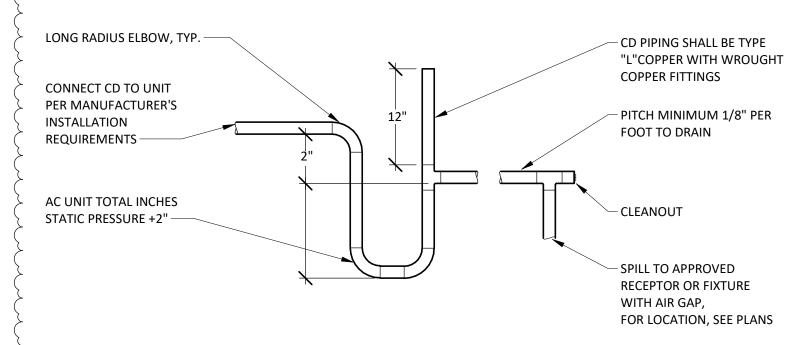
REVISIONS: # DESCRP. ADD 4

ISSUE DATE: 08/29/2025



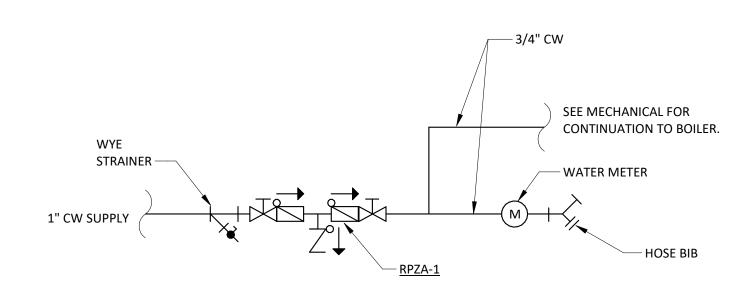
- INSTALL PER MANUFACTURER'S RECOMMENDATION ACTUAL CONFIGURATION MAY VARY WITH MANUFACTURER AND
- FIXTURE LOCATIONS MAY BE USED IN PLACE OF ROUTING CONDENSATE TO A MOP SINK OR FLOOR SINK

### CONDENSATE TAILPIECE CONNECTION Output Description: Output Des



CD PIPE SIZE SHALL NOT BE SMALLER THAN UNIT DRAIN CONNECTION SIZE. FOR PIPE SIZES AND LOCATIONS, SEE PLANS.

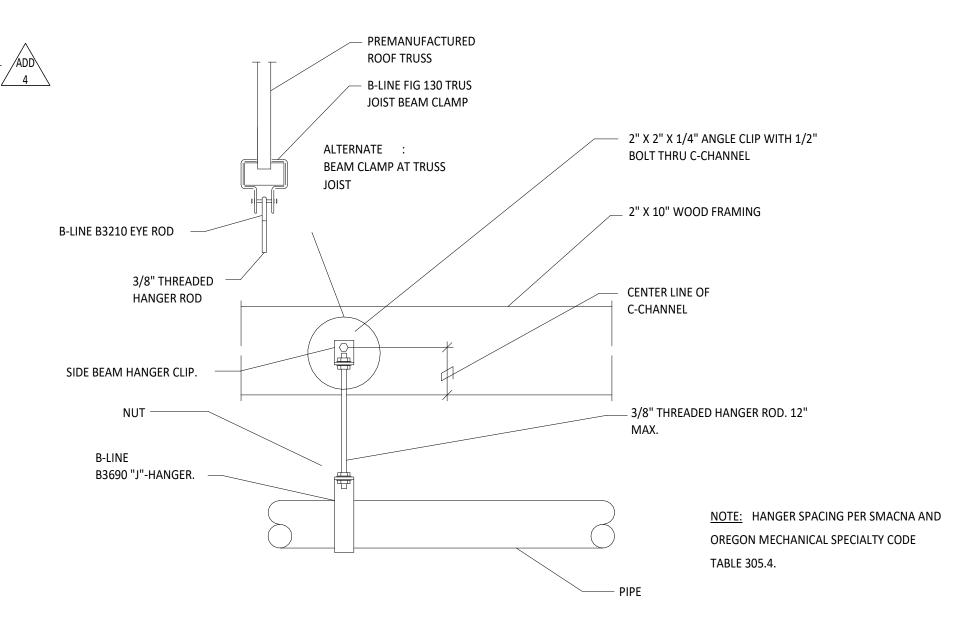
## CONDENSATE TRAP NTS



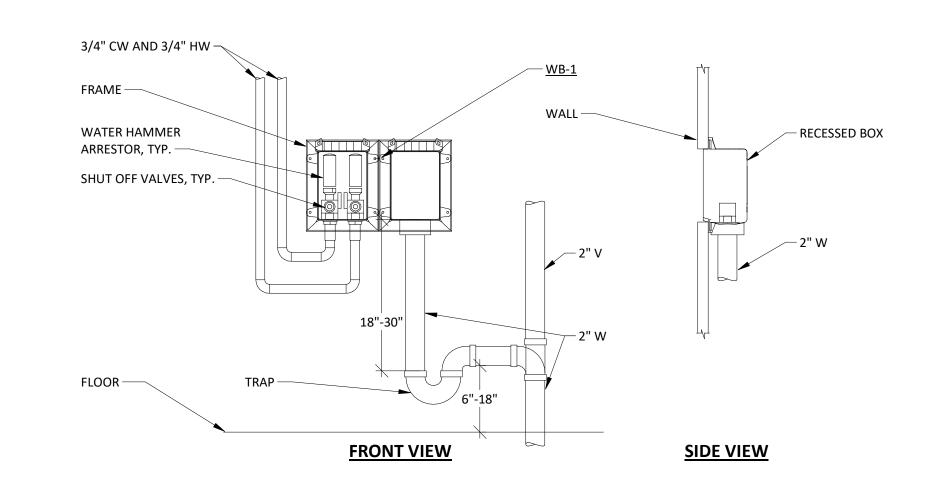
### NOTES:

ROUTE <u>RPZA-1</u> DRAIN TO BOILER 149 <u>FS-3.</u> INCLUDE AIR BREAK FUNNEL DRAIN OPTION IN RPZA-1 SELECTION.

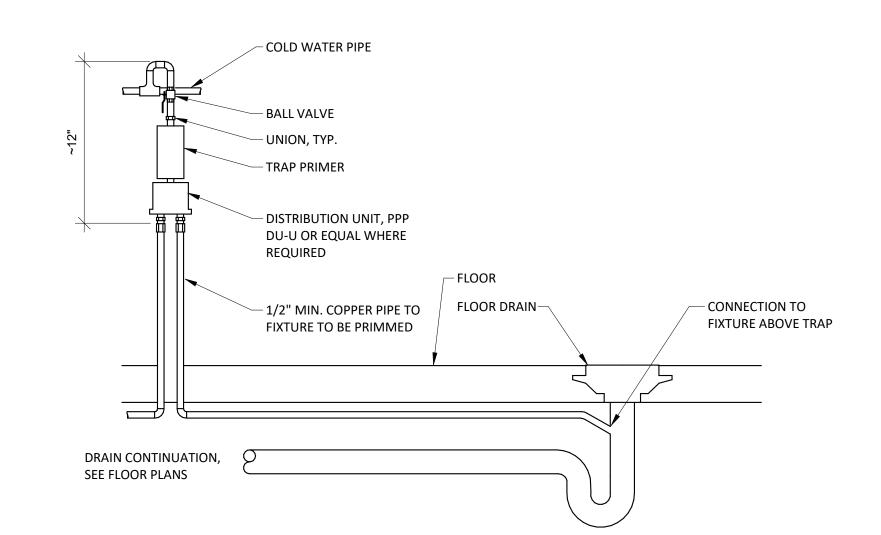




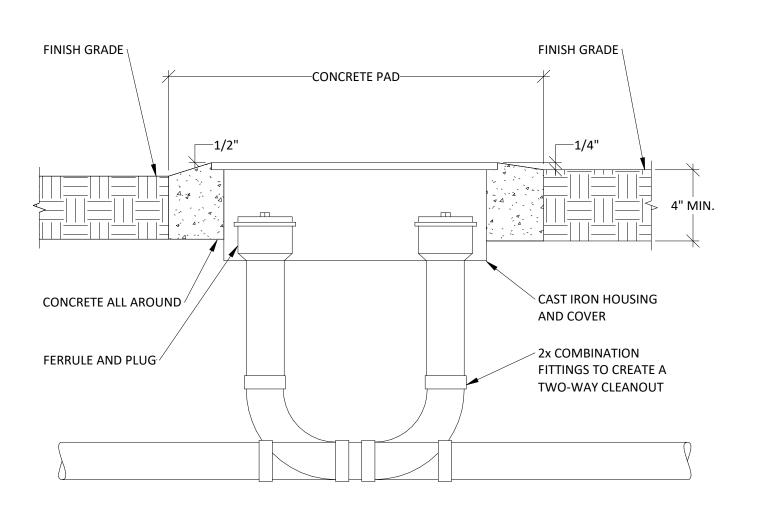
## PIPE HANGER DETAIL NTS



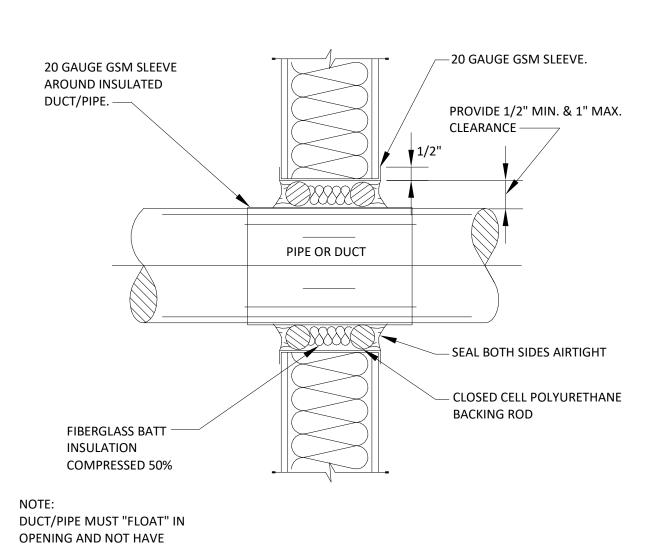
# WASHING MACHINE CONNECTION NTS





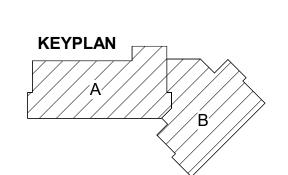


### TWO-WAY CLEAN OUT



# PIPE THROUGH NON RATED PARTITION NTS

**CONTACT WITH PARTITION** 



EXPIRES 12/31/2026

SHEET TITLE: **DETAILS** 

REVISIONS: # DESCRP. ADD 4

ISSUE DATE: 08/29/2025