### ABBREVIATIONS

			<u>S</u>
A AC AFF	AMPERES AIR CONDITIONING UNIT ABOVE FINISHED FLOOR		-
AV AW	ACID VENT ACID WASTE		
BFP CA	BACKFLOW PREVENTER COMPRESSED AIR		- SD
CAF CC CDA	COMPRESSED AIR FILTER COOLING COIL CLEAN DRY AIR		
CFH CFM CO	CUBIC FEET PER HOUR CUBIC FEET PER MINUTE CLEAN OUT	140	105° ——— )° ————
CO CO <sub>2</sub> DB	CARBON DIOXIDE DRY BULB		105° —
DIA DIWS	DIAMETER DISTILLED WATER SUPPLY	140 	- G —
DIWR DN	DISTILLED WATER RETURN DOWN		- PD
DT DWG DFU	DRIP AND TRAP DRAWING DRAINAGE FIXTURE UNITS		
ENT	ENTERING		– SP –––
EQUIP EWT EXIST	EQUIPMENT ENTERING WATER TEMPERATURE EXISTING		
°F F FIN	DEGREES FAHRENHEIT FILTER FINISHED		— ca —
FD FLA	FLOOR DRAIN FULL LOAD AMPS		— ls —
FC FLR	FLEXIBLE CONNECTION FLOOR		– VAC ––
FPM FT	FEET PER MINUTE FEET		
GA GAL	GAUGE GALLON		•
GPM	GALLONS PER MINUTE	$\bigotimes$	
HES HER	HELIUM SUPPLY HELIUM RETURN		<b>→</b>
HR HP	HOUR HORSE POWER		⊣∕⊉⊢
HT HWR HWS	HEIGHT HOT WATER RETURN HOT WATER SUPPLY		⊗ -⊠
HZ	HERTZ	-	N+ 704
IN JB	INCHES JUNCTION BOX	_	⋈- ∳
JS	JANITOR'S SINK		
кw	KILOWATT		
L LAT LBS	LENGTH LEAVING AIR TEMPERATURE POUNDS		⊣∳⊢
LBS/HR LRA	POUNDS PER HOUR LOCKED ROTOR AMPS		$\vdash$
LVG LWT	LEAVING LEAVING WATER TEMPERATURE	-	�⊢ ⊸ऽ
MAX MC	MAXIMUM MECHANICAL CONTRACTOR		-🔀
MCA MER	MINIMUM CIRCUIT AMPACITY MECHANICAL EQUIPMENT ROOM		' بلے
MHP MIN MISC	MOTOR HORSE POWER MINIMUM MISCELLANEOUS		-1×1-
NC	NORMALLY CLOSED		
No. NOM	NUMBER NOMINAL		
NTS OD	NOT TO SCALE OUTSIDE DIAMETER		[
OPNG	OPENING		
P PCWS	PUMP PROCESS CHILLED WATER SUPPLY		」 」⊚—
PCWR PD PH	PROCESS CHILLED WATER RETURN PRESSURE DROP PHASE		
PNEU PRESS	PNEUMATIC PRESSURE		R
PS PSI	PRESSURE SWITCH POUNDS PER SQUARE INCH		$\rightarrow$
PSIG PT PV	POUNDS PER SQUARE INCH GAUGE PRESSURE TRANSMITTER PLUG VALVE		<u> </u>
QUAN	QUANTITY		<u>9</u>
REL RLA	RELIEF RATED LOAD AMPS		⊕©
RPM RD	REVOLUTIONS PER MINUTE ROOF DRAIN		= =
SK SP	SINK STATIC PRESSURE		
SS STD	STAINLESS STEEL STANDARD		
TEMP TSP	TEMPERATURE TOTAL STATIC PRESSURE		
TYP TMV-1	TYPICAL THERMOSTATIC MIXING VALVE SCHEDULE		
UN2 UG	UTILITY NITROGEN UNDER GROUND		
V VA	VENT VALVE		
VAC VB	VACUUM VACUUM BREAKER		
VEL VTR	VELOCITY VENT THRU ROOF		
W W/	WIDTH WITH	THERM	OSTATIC
WB W/O	WET BULB WITHOUT		
WPD WFU	WATER PRESSURE DROP WATER SUPPLY FIXTURE UNITS	UNIT No.	SER
		1	

## <u>SYMBOLS</u>

	SOIL OR WASTE ; S/W
	SOIL AND WASTE BELOW GRADE ; S/W STORM DRAIN ; SD
	VENT ; V
	COLD WATER ; CW
	HOT WATER (105 F) ; HW HOT WATER (140° F) ; HW
•	HOT WATER RETURN (105 F) ; HWR
	HOT WATER RETURN (140° F) ; HWR
	GAS ; G PUMP DISCHARGE
	FIRE PROTECTION WATER SUPPLY ; STANDPIPE
	AUTOMATIC FIRE SPRINKLER ; SP
	NEW WORK
	EXISTING WORK
	COMPRESSED AIR
	LAWN SPRINKLER SUPPLY ; LS
	VACUUM
	EXISTING TO BE REMOVED
<b></b>	
$\square$	NEW CONNECTION TO EXISTING
	FLOW-IN DIRECTION OF ARROW
-	OS & Y GATE VALVE
$\triangleleft$	GATE VALVE
S.	CHECK VALVE
₽	GAS COCK
_	GATE VALVE & DRAIN BIBB
•	BALL VALVE
_	PLUG VALVE
•	DRAIN BIBB
-⊱-	BALANCING VALVE ; BV
	PRESSURE RELIEF VALVE ; PRV
-	THERMOSTATIC MIXING VALVE
-	PRESSURE REGULATOR
	CLEAN OUT ;CO
	CAP OR PLUG
_	STRAINER
_	REDUCER/INCREASER
)	CLEAN OUT DECK PLATE ; C.O.D.P.
_	UNION
1	EMERGENCY GAS SHUT OFF VALVE
$\diamond$	AQUASTAT
	THERMOMETER
	PRESSURE GAUGE WITH GAUGE COCK
	PUMP
́ Ф	
-	
	FLOOR DRAIN ; FD MASTER GAS CONTROL VALVE ;MGCV
	WALL INGOV

THERMOSTATIC MIXING VALVE SCHEDULE										
UNIT No.	SERVING	MODEL NO.	INLET WATER TEMPERATURE(°F)	SET POINT WATER TEMPERATURE(°F)	REMARKS					
TMV-1	LAV-1, SK-1	ACORN- ST70	120 °F	105 °F	-					

## **GENERAL NOTES:**

- 1. ALL HOT WATER CIRCULATION, HOT AND COLD WATER PIPING ARE AT CEILING OR IN HUNG CEILING
- 2. ACCESS SHALL BE PROVIDED FOR ALL CLEANOUTS, VALVES, AND ANY OTHER EQUIPMENT OR ACCESSORIES THAT MAY REQUIRE ACCESS FOR MAINTENANCE, OR OPERATION WHICH ARE LOCATED BEHIND WALLS AND PARTITIONS OR CONCEALED IN HUNG CEILING.
- 3. CONTRACTOR SHALL CHECK AND VERIFY THE EXACT LOCATION OF ALL PIPE PENETRATIONS AND MAKE CERTAIN THERE ARE NO OBSTRUCTIONS AND INTERFERENCES.
- 4. CONTRACTOR SHALL REFER TO AND COORDINATE WITH ARCHITECTURAL AND STRUCTURAL DRAWINGS, INCLUDING WORK FOR ALL UNDERGROUND PIPE SUPPORT AND OTHER RELEVANT DETAILS.
- 5. CONTRACTOR SHALL COORDINATE ALL UNDER SLAB PIPE LAYOUT WITH FOUNDATION PLAN.
- 6. CONTRACTOR SHALL REFER TO AND COORDINATE WITH ELECTRICAL DRAWING AND WORK ENSURING NO PIPE IS RUN DIRECTLY ABOVE NOR WITHIN THREE FEET OF ELECTRICAL PANELS.
- 7. UNDERGROUND PIPING REQUIREMENTS FOR PROTECTING THE PIPES, TRENCHING, BACK FILLING AND UNIFORM SOIL BEARING ALONG THE LENGTH OF THE PIPE SHALL BE AS PER 2020 NYS PLUMBING CODE
- 8. ALL PIPES PENETRATED THROUGH WALLS AND FLOORS SHALL BE PROVIDED WITH REQUIRED OPENINGS, SLEEVES, SEALS AND PACKING.

# REFERENCE SYMBOLS

INDICATES EQUIPMENT
INDICATES EQUIPMENT NUMBER
INDICATES SECTION NUMBER
INDICATES DRAWING NUMBER

- INDICATES DETAIL NUMBER
- INDICATES DRAWING NUMBER
- $\langle 1 \rangle$ SHEET NOTE NUMBER PIPE CONTINUATION -----
- **REVISION NUMBER**

NOTE: ALL ABBREVIATIONS AND SYMBOLS MAY NOT APPEAR ON THE DRAWINGS

FOR THIS PROJECT. 

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### BUILDING DEPARTMENT NOTES:

ALL PLUMBING WORK SHALL MEET THE REQUIREMENTS OF THE PLUMBING CODE OF NEW YORK STATE (PC-NYS), 2020 EDITION.

- 1. ALL PLUMBING PIPING SHALL BE SUPPORTED IN ACCORDANCE WITH PC-NYS SECTION 308 AND TABLE 308.5.
- 2. ALL TESTS AND INSPECTIONS SHALL BE MADE AS DIRECTED IN PC-NYS SECTION 312.
- 3. MATERIALS, DESIGN AND INSTALLATION OF PLUMBING FIXTURES, FAUCETS AND FIXTURE FITTINGS SHALL BE IN ACCORDANCE WITH PC-NYS CHAPTER 4.
- 4. ACCESSIBLE PLUMBING FACILITIES AND FIXTURES SHALL BE PROVIDED IN ACCORDANCE WITH PC-NYS SECTION 404. 5. MATERIALS, DESIGN AND INSTALLATION OF WATER SUPPLY SYSTEMS SHALL BE AS OUTLINED IN PC-NYS
- CHAPTER 6. 6. WATER DISTRIBUTION PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN PC-NYS TABLE 605.4.
- 7. WATER PIPE FITTINGS SHALL CONFORM TO THE RESPECTIVE PIPE STANDARDS OR ONE OF THE STANDARDS LISTED IN PC-NYS TABLE 605.5.
- 8. HOT WATER SUPPLY SYSTEMS SHALL COMPLY WITH PC-NYS SECTION 607.
- 9. PROTECTION OF POTABLE WATER SUPPLY SHALL BE IN ACCORDANCE WITH PC-NYS SECTION 608. 10. MATERIALS, DESIGN, CONSTRUCTION AND INSTALLATION OF SANITARY DRAINAGE SYSTEMS SHALL BE AS OUTLINED IN PC-NYS CHAPTER 7.
- 11. SANITARY DRAINAGE AND VENT PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLES 702.1, AND 702.2. BUILDING SEWER PIPE SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 702.3. PIPE FITTINGS SHALL CONFORM TO ONE OF THE STANDARDS LISTED IN TABLE 702.4.
- 12. THE MINIMUM SLOPE OF A HORIZONTAL DRAINAGE PIPE SHALL BE IN ACCORDANCE WITH TABLE 704.1.
- 13. CLEANOUTS SHALL BE SIZED, LOCATED AND INSTALLED AS SET FORTH IN PC-NYS SECTION 708.
- 14. DRAINAGE FIXTURE UNIT VALUES SHALL BE AS SET FORTH IN TABLE 709.1.
- 15. DRAINAGE SYSTEM SIZING IN ACCORDANCE WITH PC-NYS SECTION 710.
- 16. MATERIALS, DESIGN, CONSTRUCTION AND INSTALLATION OF VENT SYSTEMS SHALL BE IN ACCORDANCE WITH PC-NYS CHAPTER 9.
- 17. VENT PIPE SIZING IN ACCORDANCE WITH PC-NYS SECTION 916 AND TABLE 916.1
- 18. TRAP REQUIREMENTS AS SET FORTH IN PC-NYS SECTION 1002.

# TENANT SAFETY NOTES:

- 1. CONSTRUCTION WORK WILL BE CONFINED TO THE ITEMS AS INDICATED IN THE DRAWING, AND WILL NOT CREATE DUST, DIRT OR OTHER SUCH INCONVENIENCE TO THE OTHER TENANTS WITHIN THE BUILDING.
- 2. CONSTRUCTION OPERATION WILL NOT BLOCK HALLWAYS OR MEANS OF EGRESS FOR THE TENANTS OF THE BUILDING.
- 3. CONSTRUCTION OPERATION WILL NOT INVOLVE INTERRUPTION OF HEATING, WATER, OR OTHER ELECTRICAL SERVICES TO OTHER TENANTS OF THE BUILDING.
- 4. THERE WILL BE NO ONE OCCUPYING THE WORK AREA DURING THE CONSTRUCTION.
- 5. NO STRUCTURAL WORK SHALL BE DONE THAT MAY ENDANGER THE OCCUPANTS.
- 6. CONSTRUCTION OPERATION SHALL COMPLY WITH APPLICABLE PROVISIONS OF LAW RELATING TO LEAD AND ASBESTOS.
- 7. CONSTRUCTION OPERATIONS SHALL BE CONDUCTED IN CONFORMANCE WITH THE NYS BC CHAPTER 33 "SAFEGUARDS DURING CONSTRUCTION".

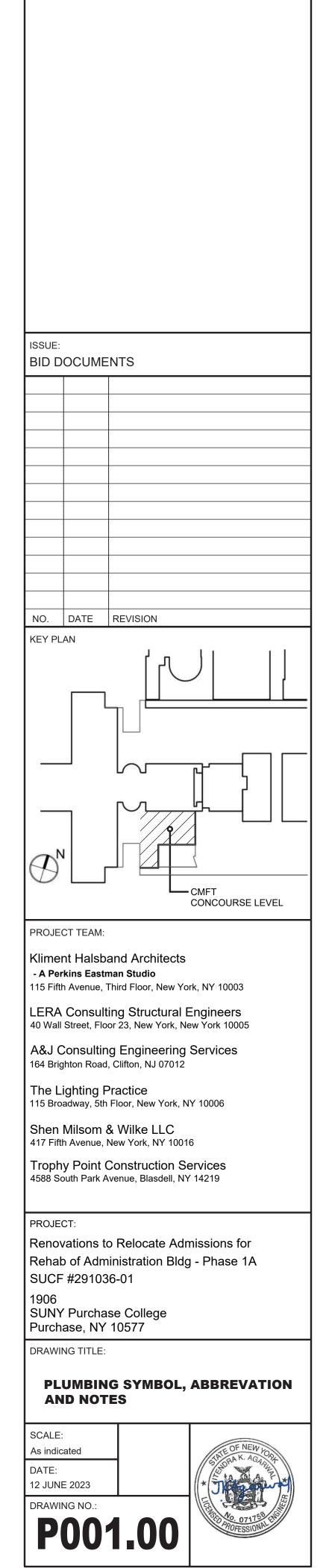
# PLUMBING SHOP DRAWING NOTE:

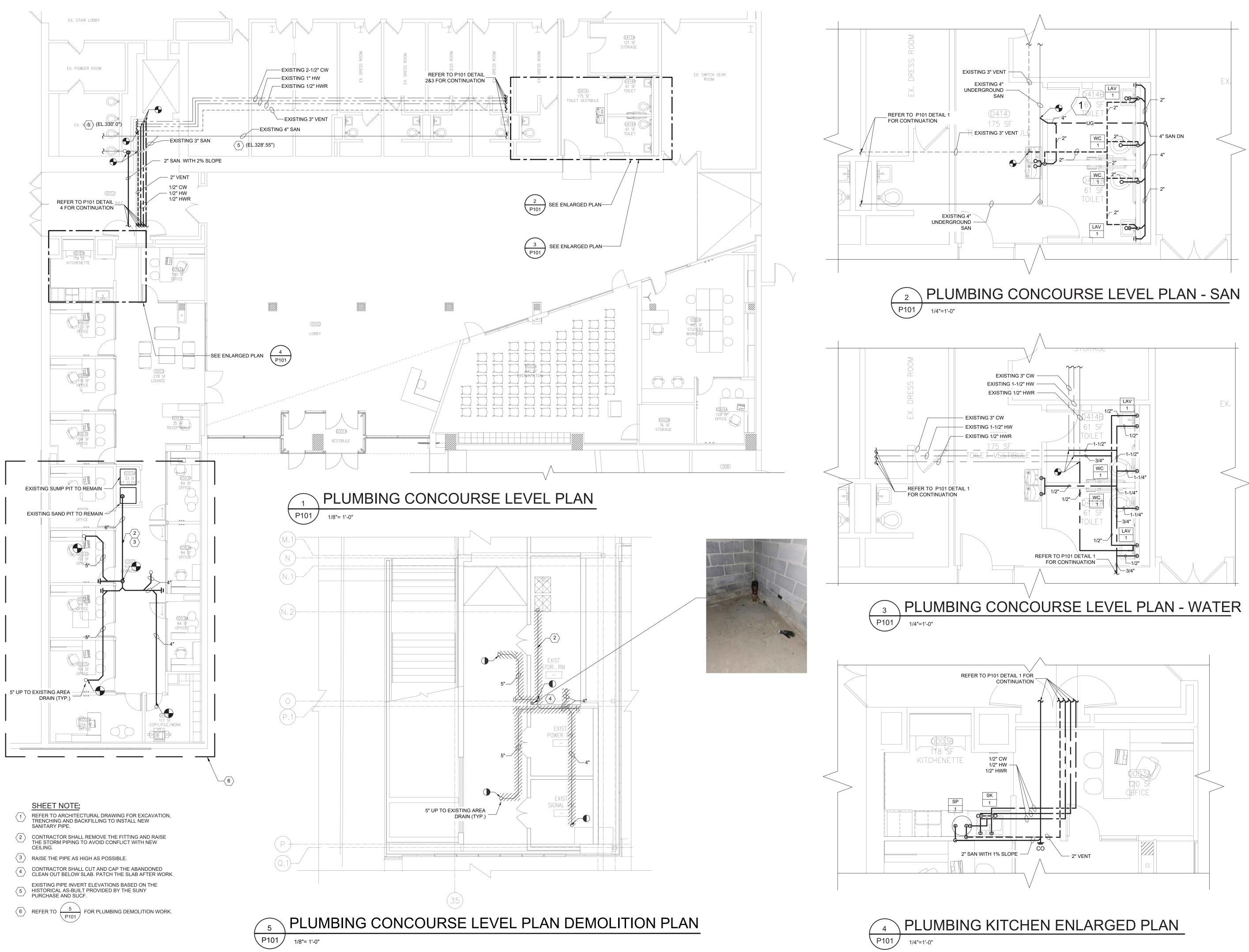
THE CONTRACTOR SHALL SUBMIT COORDINATED SHOP DRAWINGS OF ALL PLUMBING PIPING FOR REVIEW, THIS SHALL BE DONE BEFORE THE INSTALLATION OF ANY PIPING OR EQUIPMENT. THE SHOP DRAWING SHALL INCLUDE PIPE ROUTING, SIZES, SLOPE INVERT ELEVATIONS, ELEVATIONS, SLEEVES LOCATIONS AND SIZES. THE DRAWINGS SHALL CONTAIN ALL THE INFORMATION NECESSARY FOR THE PROPER INSTALLATION OF THE JOB. THE SHOP DRAWINGS SHALL BE COORDINATED WITH OTHER TRADES AND OR EXISTING PIPING OR EQUIPMENT THAT MIGHT AFFECT THE INSTALLATION. THE DRAWING SHALL BE SUBMITTED AT A MINIMUM 3/8" SCALE OR AT SCALE THAT IS EASILY LEGIBLE. THE DESIGN DRAWINGS ARE ESSENTIALLY DIAGRAMMATIC AND ARE NOT INTENDED TO BE USED AS A SHOP DRAWING THEREFORE A COPY OF THE DESIGN DRAWING IS NOT ACCEPTABLE AS A SHOP DRAWING.

PLUMBING FIXTURE SCHEDULE										
				CONNEC	TION SIZE - IN	CHES				
LEGEND	PLUMBING FIXTURE	TRAP	SOIL/ WASTE	VENT	COLD WATER	COLD WATER FLUSH VALVE	HOT WATER	THERMO- STATIC MIXING VALVE		
		(TR)	(S/W)	(V)	(CW)	(CWFV)	(HW)	(TMV)		
WC-1	WATER CLOSET	4"	4"	2"	-	1-1/4	-	-		
LAV-1	LAVATORY	2"	2"	2"	1/2"	-	1/2"	1/2"		
SK-1	KITCHEN SINK	2"	2"	2"	1/2"	-	1/2"	1/2"		
DF-1	DRINKING FOUNTAIN	2"	2"	2"	1/2"	-	-	-		

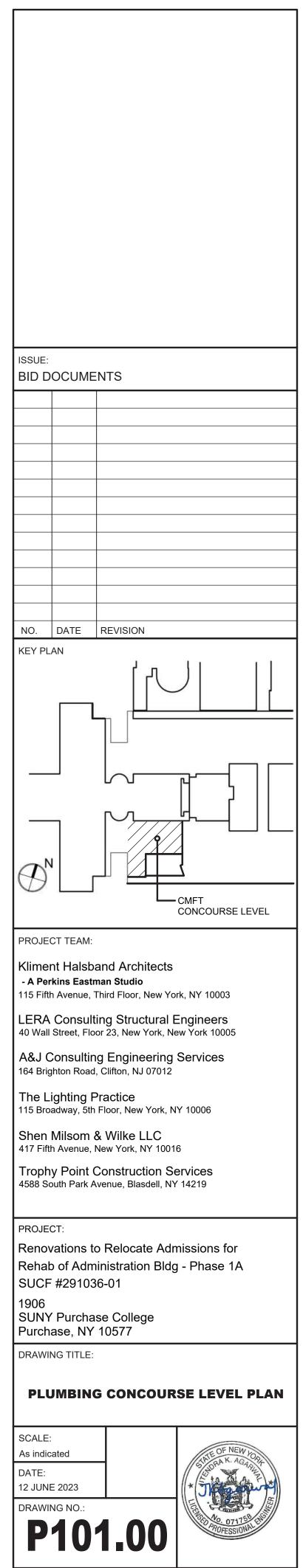
1. ALL WATER CLOSETS TO BE WALL MOUNTED. PROVIDE CARRIER FOR SUPPORT.

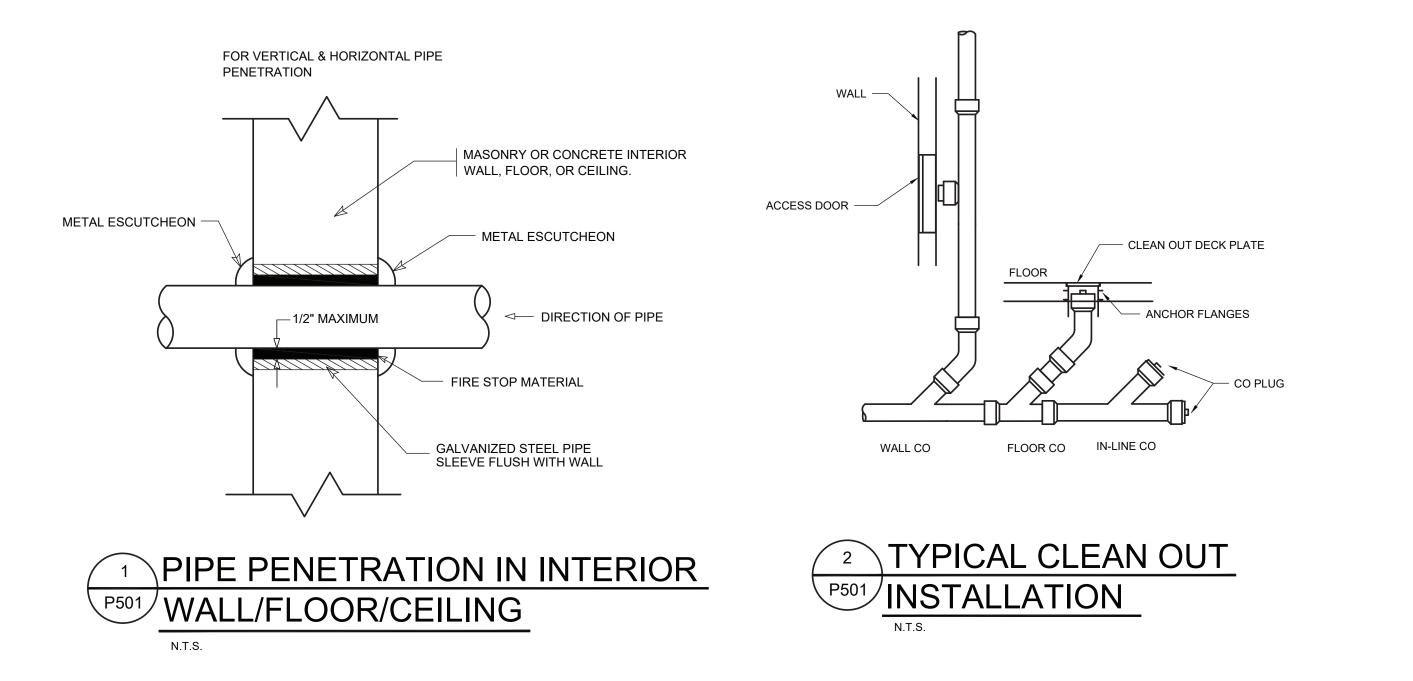
SUMP PUMP SCHEDULE										
		GENERAL			PERFC	ORMANCE	MOTOR DATA			
TAG	QTY	SERVICES	LOCATION	MODEL	FLOW (GPM)	HEAD (FT.HD)	MOTOR (HP)	SPEED (RPM)	POWER (V/PH/HZ)	BASIS OF DESIGN
SP-1	1	SK-1	KITCHENTTE	405/A-EYE	5	32	0.5	3450	115/1/60	LIBERTY PUMP



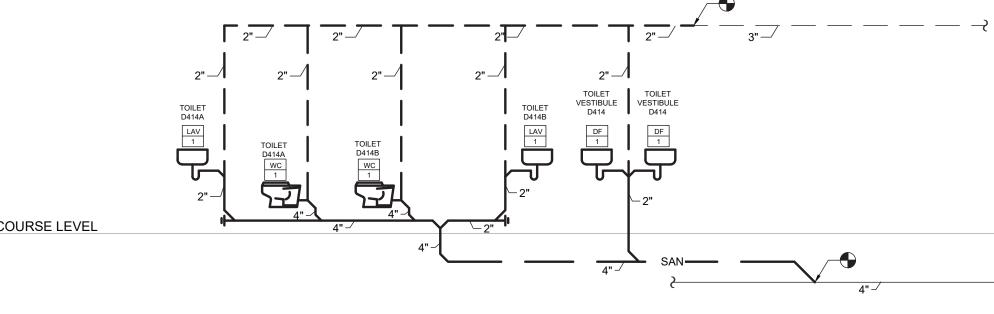


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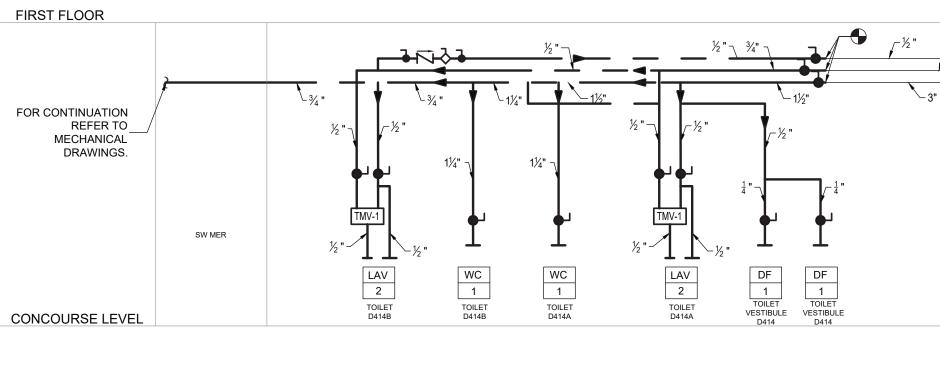


## FIRST FLOOR



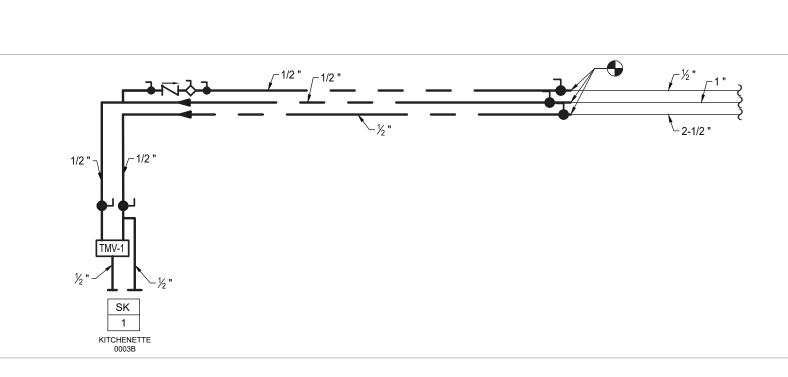
CONCOURSE LEVEL



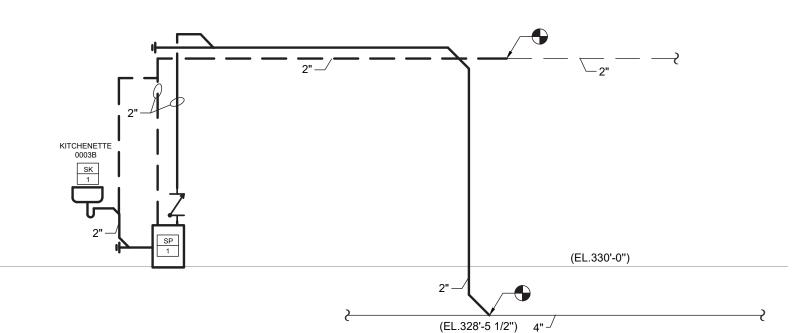


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# WATER RISER DIAGRAM



# <sup>4</sup> SANITARY RISER DIAGRAM





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