

RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
STATE OF MISSOURI

1440221

KD

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STATE OF MISSOURI  
STEPHEN D. HEATH  
REGISTERED PROFESSIONAL ENGINEER  
NUMBER PE-37787

NOT FOR CONSTRUCTION

THIS DRAWING IS PROVIDED FOR INFORMATIONAL PURPOSES ONLY. APPROVAL FROM THE ARCHITECT AND GOVERNING JURISDICTIONS MUST BE ATTAINED PRIOR TO THE ISSUANCE OF CONSTRUCTION DOCUMENTS. THE ARCHITECT AND HIS CONSULTANTS ASSUME NO RESPONSIBILITY FOR CONSTRUCTION BID'S OR CONSTRUCTION PERFORMED FROM THESE DRAWINGS.

REVISIONS

No.	DATE	DESCRIPTION
△	09-22-21	PCC #1, CLIENT AND LANDLORD REVISIONS

CLIENT INFORMATION

néktər

JUICE BAR.

PROJECT NAME  
NEKTER - LEE'S SUMMIT, MO  
940 NW PRYOR ROAD, UNIT: G,  
LEE'S SUMMIT, MISSOURI 64081

SHEET NAME  
PLUMBING GENERAL NOTES

APPLICABLE CODES

CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE STATE CODES WHETHER INDICATED HEREIN OR NOT.

- 2018 INTERNATIONAL BUILDING CODE (IBC)
- 2018 INTERNATIONAL MECHANICAL CODE (IMC)
- 2018 INTERNATIONAL PLUMBING CODE (IPC)
- 2018 UNIFORM PLUMBING CODE (UPC)
- 2018 INTERNATIONAL FUEL GAS CODE (IFGC)
- 2018 UNIFORM ENERGY CONSERVATION CODE (IECC)
- 2018 INTERNATIONAL EXISTING BUILDING CODE (IEBC)
- 2012 INTERNATIONAL GREEN CONSTRUCTION CODE (IGCC) - OPTIONAL
- 2017 NATIONAL ELECTRICAL CODE (NEC)

ACCESSIBILITY 2010 ADA GUIDELINES & 2017 ICC/ANSI A117.1 FAIR HOUSING ACT

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PLUMBING GENERAL NOTES

1. DO NOT SCALE DRAWINGS. VERIFY DIMENSIONS IN FIELD PRIOR TO COMMENCING WORK.
2. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT PLUMBING FIXTURE LOCATIONS, MOUNTING HEIGHTS AND PLUMBING ROUGH-IN LOCATIONS. THIS SHALL INCLUDE, BUT NOT BE LIMITED TO ALL HANDICAPPED FIXTURES. OBTAIN EXACT FLOOR DRAIN AND FLOOR SINK LOCATIONS FROM FOOD SERVICE DRAWINGS. ROUGH-IN LOCATIONS FOR KITCHENS, BARS, ETC. TO BE TAKEN FROM APPROVED FOOD SERVICE SHOP DRAWINGS.
3. ITEM DESIGNATIONS INDICATED ARE FOR PURPOSES OF THESE DOCUMENTS ONLY. CONTRACTOR SHALL VERIFY WITH THE OWNER ACTUAL DESIGNATION INFORMATION TO BE PROVIDED FOR EACH ITEM OF PLUMBING EQUIPMENT PRIOR TO NAMEPLATE ORDER RELEASE.
4. THE PLUMBING DETAILS SHALL BE INCORPORATED INTO THE ASSOCIATED WORK AND PROVIDE GENERAL GUIDANCE AS TO THE INSTALLATION INTENT WHETHER REFERENCED TO OR NOT. IT IS THE CONTRACTOR'S RESPONSIBILITY TO PROVIDE ALL NECESSARY COMPONENTS FOR A COMPLETE INSTALLATION AND ENSURE THAT ALL INSTALLATIONS ARE IN ACCORDANCE WITH THE EQUIPMENT'S LISTING AND MANUFACTURER'S WRITTEN INSTALLATION INSTRUCTION.
5. REFER TO APPROVED FOOD SERVICE DRAWINGS AND SCHEDULES FOR KITCHEN AND BAR LAYOUTS, PLUMBING REQUIREMENTS AND DETAILS. PROVIDE PIPING, VALVES, FIXTURES, INDIRECT WASTE, PRESSURE REDUCING VALVES, ETC. (NOT PROVIDE BY KITCHEN EQUIPMENT CONTRACTOR) AS REQUIRED TO MAKE A COMPLETE AND OPERABLE SYSTEM (INCLUDING HOOD DRAIN PIPING, VENTILATOR CONTROL PANEL PIPING, REFRIGERANT PIPING, BEER AND SYRUP LINE RACEWAYS, DRAIN PIPING FROM REFRIGERATION FAN COILS, ETC.). EXPOSED PIPING ABOVE COUNTER HEIGHT SHALL BE CHROME PLATED. PROVIDE REDUCED PRESSURE TYPE BACKFLOW AT CARBONATORS. VACUUM BREAKER AND PRESSURE REDUCING VALVES FOR HOOD HOT AND COLD WATER ARE FURNISHED BY KITCHEN EQUIPMENT CONTRACTOR AND INSTALLED BY DIVISION 22 (PLUMBING). COORDINATE WITH KITCHEN EQUIPMENT CONTRACTOR ACCORDINGLY. PROVIDE SHUT-OFF VALVES AND CHECK VALVES ON EACH BRANCH LINE TO HOSE REELS, SOAP DISPENSERS AND EACH HOT AND COLD WATER FAUCET THAT HAS A HOSE CONNECTION. PIPE 3/4" COLD WATER TO FILTER (BY KITCHEN EQUIPMENT CONTRACTOR) WITH SHUT-OFF VALVE PIPING FROM FILTER TO EQUIPMENT ROUTED IN WALL.
6. PROVIDE STAINLESS STEEL WASTE PIPE AND P-TRAP AT ALL BARS, SODA STATIONS, WAITRESS STATIONS AND BEVERAGE STATIONS ABOVE GRADE (SCHEDULE 40 PVC FOR BELOW GRADE). RUN-OUTS SHALL BE A MINIMUM OF 20'-0" OF STAINLESS STEEL DRAIN PIPE OR TO THE MAIN DRAIN OF AREA SERVED.
7. PROVIDE INSULATION ON ALL WASTE PIPING AND P-TRAPS FROM FLOOR DRAINS, SINKS AND TROUGHS RECEIVING INDIRECT WASTE FROM ICE MACHINES AND ICE BINS. PIPING INSULATION SHALL BE PROVIDED FROM THE DRAIN CONNECTION FOR A MINIMUM OF 15'-0" OR UNTIL THE NEXT BRANCH CONNECTION.
8. PROVIDE SHEET METAL DRAIN DRAIN PAN UNDER GRAVITY OR PUMPED DRAIN PIPING WHERE PIPING OCCURS ABOVE KITCHENS, FOOD SERVICE PREP, FUTURE TENANT KITCHENS OR FOOD SERVICE CORRIDORS. PIPE 3/4" DRAIN FROM DRAIN PAN TO OVER NEAREST FLOOR SINK.
9. PROVIDE SHEET METAL DRAIN PAN UNDER PIPING WHERE PIPING OCCURS, ABOVE ANY ELECTRICAL ROOMS, IT CENTER OR ELECTRICAL SWITCH GEAR. PIPE 3/4" DRAIN FROM DRAIN PAN TO OVER NEAREST FLOOR SINK.
10. REFER TO APPROVED FOOD SERVICE DRAWINGS FOR HOT AND COLD WATER HOSE BIBB LOCATIONS UNDER HAND SINKS IN KITCHEN AREAS.
11. SEISMIC RESTRAINTS SHALL BE PROVIDED PER THE LATEST ADOPTED STANDARD BUILDING CODE AND THE SMACNA SEISMIC RESTRAINT MANUAL GUIDELINES FOR MECHANICAL SYSTEMS. THE CONTRACTOR SHALL SUBMIT SHOP DRAWINGS OF THE PROPOSED RESTRAINTS, STRUCTURAL ATTACHMENT METHODS AND RESTRAINT LOCATIONS TO THE ARCHITECT FOR REVIEW. THE SUBMITTED DOCUMENTS SHALL BE PREPARED AND STAMPED BY A STRUCTURAL ENGINEER LICENSED IN THE PROJECT STATE.
12. COORDINATE SPRINKLER DRAIN REQUIREMENTS AND LOCATIONS WITH THE FIRE PROTECTION DIVISION OF WORK.
13. REFER TO CIVIL DRAWINGS FOR INVERT AT SITE UTILITY POINTS OF CONNECTION. PROVIDE OFFSET AND INCREASER FOR STORM DRAIN OR SEWER AS REQUIRED FOR CONNECTION TO CIVIL.
14. GREASE TRAP INSTALLATION SHALL CONFORM WITH APPLICABLE CITY REQUIREMENTS. MANHOLE SPACING SHALL NOT EXCEED 10'-0" ON CENTER. PROVIDE QUANTITY AS REQUIRED TO COMPLY WITH MAXIMUM SPACING. COORDINATE WITH CIVIL DIVISION OF WORK.
15. PROVIDE TRAP PRIMERS FOR AREAS OF INFREQUENT USE, INCLUDING FLOOR DRAINS IN RESTROOMS AND MECHANICAL ROOMS. EQUAL TO PRECISION PRODUCTS CO. "PRIME-RITE" WITH DISTRIBUTION UNITS FOR MULTIPLE FLOOR DRAINS AND FLOOR SINKS. TRAP PRIMER SHALL BE ACCESSIBLE AND INSTALLED PER MANUFACTURER'S REQUIREMENTS. PROVIDE LINE SIZE SHUT-OFF VALVE AHEAD OF EACH TRAP PRIMER AND PRIMER LINE SHALL BE INSTALLED ON A COLD WATER LINE LESS THAN 2" DIAMETER. ALL ELECTRONIC TYPE TRAP PRIMERS SHALL BE PPP "PRIME-TIME" ELECTRONIC TRAP PRIMING MANIFOLD" WITH FOUR (4) TO 30 OUTLETS, VACUUM BREAKER, 24 HOUR CLOCK, MANUAL OVERRIDE, SOLENOID VALVE, CALIBRATED MANIFOLD WITH 1/2" OUTLET COMPRESSION FITTINGS, PROVIDE 3/4" SHUT-OFF VALVE ON INLET. (ELECTRONIC TRAP PRIMERS TO BE LOCATED IN MECHANICAL ROOMS AND CONCRETE BLOCK WALLS.)
16. REFER TO BALANCING VALVE ASSEMBLY DESIGN DETAIL FOR NOMINAL GPM AT EACH HOT WATER RETURN BRANCH LINE CONNECTION.
17. HOT WATER RETURN PIPING BRANCH LINES TO DROP DOWN IN WALL AND CONNECT TO HOT WATER SUPPLY AT STOPS OR AT TEMPERING STATIONS. REFER TO DESIGN DETAILS FOR DIAGRAMS SHOWING CONNECTIONS.
18. ARRANGE WATER HEATERS AND PIPING TO PROVIDE EASE OF DISASSEMBLY AND MAINTENANCE.
19. GREASE WASTE PIPING SHALL PITCH AT 2% PER FOOT.
20. PROVIDE A 6mm POLYETHYLENE SLEEVE EQUAL TO IPS WATER-TITE FOR COPPER DOMESTIC WATER PIPE BELOW SLAB.
21. HOT AND COLD WATER SHUT-OFF VALVES AND HOT WATER RETURN BALANCING VALVES SHALL BE LOCATED TO BE EASILY ACCESSED.
22. PROVIDE STAINLESS STEEL BASKET AT KITCHEN AND BAR FLOOR SINKS. DRAIN SPECIALITIES MODEL NUMBER DS-200.
23. PROVIDE WALL CLEANOUTS AT URINALS IN ACCORDANCE WITH APPLICABLE SECTIONS OF THE ADOPTED STANDARD PLUMBING CODE.
24. VENTS THROUGH ROOF SHALL BE A MINIMUM OF 10'-0" FROM ANY OUTSIDE AIR INTAKES AND BUILDING OPENINGS.
25. EQUIPMENT AND PIPING LOCATIONS SHOWN FROM THE BEST AVAILABLE INFORMATION. CONTRACTOR SHALL FIELD VERIFY SIZE AND LOCATIONS PRIOR TO START OF WORK. IF SYSTEMS ARE NOT AS SHOWN IN DRAWINGS, REPORT DEVIATIONS TO ARCHITECT/ENGINEER WITHIN 48 HOURS OF DISCOVERY.
26. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPAIR AND PATCHING OF DAMAGED ARCHITECTURAL COMPONENTS TO REMAIN DURING THE REMOVAL OF DESIGNATED SYSTEMS. COORDINATE REPAIR REQUIREMENTS WITH ARCHITECT.
27. RESOLVE ALL QUESTIONS OR CONFLICTS WITH ENGINEER BEFORE ANY EQUIPMENT IS ORDERED, MATERIALS FABRICATED OR SYSTEMS INSTALLED.
28. COORDINATE THE INSTALLATION OF MECHANICAL SYSTEMS WITH OTHER TRADES.
29. COORDINATE ALL PENETRATIONS THROUGH STRUCTURAL MEMBERS WITH THE GENERAL CONTRACTOR.
30. COORDINATE AND VERIFY THAT ALL OPENINGS IN WALLS ABOVE CEILING / DOOR LOUVERS / DOOR UNDERCUTS ARE PROVIDED AS INDICATED ON THESE DRAWINGS.
31. COORDINATE EXACT SIZE OF EQUIPMENT HOUSEKEEPING PAD WITH EQUIPMENT OVERALL FOOTPRINT DIMENSIONS.
32. LEVEL ALL EQUIPMENT CURBS / BASES PRIOR TO INSTALLATION OF ANY EQUIPMENT.
33. INSTALL FULL SIZE CONDENSATE DRAIN WITH TRAP SEAL DEPTH EQUAL TO 1.5 X UNIT TOTAL STATIC PRESSURE FOR EACH COOLING COIL. DISCHARGE DRAIN TO ROOF DRAIN FOR ROOFTOP UNITS AND TO FLOOR DRAIN FOR FAN COIL UNITS AND INDOOR AIR HANDLING UNITS.
34. SEAL ALL WALL AND ROOF PENETRATIONS WATERTIGHT WITH SILICONE CAULKING AND BACKER ROD.
35. PROVIDE 30x30 ACCESS PANELS IN "HARD" CEILINGS FOR ACCESS TO ALL MOTORS / CONTROLS / BALANCING DAMPERS AND FIRE DAMPERS.
36. PROVIDE OFFSETS AS NECESSARY TO ACCOMMODATE STRUCTURE AND OTHER TRADES.

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GENERAL ANNOTATIONS

	DETAIL No. REF DWG No.	DETAIL CALL OUT	
	SECTION No. REF DWG No.	SECTION CALL OUT	
	A	GRID DESIGNATION	
	A	EXISTING GRID DESIGNATION	
	ELEVATION No. REF DWG No.	ELEVATION REFERENCE EXTERIOR	
	ELEVATION No. REF DWG No.	ELEVATION REFERENCE INTERIOR	
	ELEVATION NAME	NEW SPOT ELEVATION	
	ELEVATION NAME	EXISTING SPOT ELEVATION	
	MATCH LINE SEE A201	MATCHLINE	
	KEYNOTE	HEXAGON SHEET KEYNOTE	
	KEYNOTE	CIRCLE SHEET KEYNOTE	
	KEYNOTE	OVAL SHEET KEYNOTE (WORK)	
	KEYNOTE	SQUARE SHEET KEYNOTE	
	KEYNOTE	DIAMOND SHEET KEYNOTE (DEMO)	
	REVISION	REVISION NOTE	
	POC	POINT OF CONNECTION (DATUM)	
	POD	POINT OF DISCONNECT	
	ROOM NAME 101	ROOM NAME AND ROOM TARGET	
	101	ROOM PARTITION TARGET	
	TRUE NORTH	PLAN NORTH	
	SITE NORTH	ISOMETRIC NORTH	
	SITE NORTH		

GENERAL SYMBOLS

	THERMOMETER
	AUTOMATIC AIR VENT
	MANUAL AIR VENT
	PRESSURE GAGE OR GAGE COCK
	WATER METER
	GAS METER
	IN-LINE CIRCULATING PUMP
	ACCESS PANEL
	BACKFLOW PREVENTER (DOUBLE CHECK)
	REDUCED PRESSURE PRINCIPLE BACKFLOW
	MANUAL FLOW BALANCING VALVE (CIRCUIT SETTER)
	AUTOMATIC THERMOSTATIC BALANCING VALVE
	VACUUM RELIEF VALVE
	PRESSURE & TEMPERATURE RELIEF VALVE
	UNION
	ECCENTRIC REDUCER
	CONCENTRIC REDUCER
	STRAINER
	SWING CHECK VALVE / BACK WATER VALVE
	SOLENOID VALVE
	THREE-WAY SOLENOID VALVE
	GAS COCK / PLUG VALVE
	GATE VALVE
	BALL VALVE / SHUT OFF VALVE
	RISER BALL VALVE / SHUT OFF VALVE
	NEEDLE VALVE / THROTTLING VALVE
	BUTTERFLY VALVE
	GLOBE VALVE
	THERMOSTATIC MIXING VALVE
	THREE-WAY VALVE
	ANGLE VALVE / ANGLE STOP VALVE
	MOTORIZED T.C. VALVE/2-WAY
	MOTORIZED T.C. VALVE/3-WAY
	NORMALLY CLOSED, NORMALLY OPEN
	ROOF RECEPTOR
	QUICK DISCONNECT
	FLANGED CONNECTION
	FLEX CONNECTOR
	EXPANSION CONNECTOR
	90 ELBOW - DOWN
	90 ELBOW - UP
	TEE - DOWN
	TEE - UP
	FLOW INDICATOR
	PIPE CAP
	PIPE BREAK

PLUMBING ABBREVIATIONS

AB	ANCHOR BOLT	FLA	FLASHING	PK	PARKING
ABV	ABOVE	FLR	FLOOR	PL	PLATE
AC	ACOUSTICAL	FLUOR	FLUORESCENT	PLAM	PLASTIC LAMINATE
A/C	AIR CONDITIONING	FLAS	PLASTER	PLAS	PLASTER
ACON	ASPHALTIC CONCRETE	FOB	FACE OF BLOCK	PLWD	PLYWOOD
		FOC	FACE OF CONCRETE	PM	PRESSED METAL
ACT	ACOUSTICAL TILE			PNL	PANEL
ADH	ADHESIVE	FOF	FACE OF FINISH	PNT	PAINT(ED)
ADJ	ADJACENT	FOM	FACE OF MASONRY	P/P	POUNDS PER
ADJT	ADJUSTABLE			PSF	SQUARE FOOT
AFF	ABOVE FINISHED FLOOR	FOS	FACE OF STUDS	PSI	POUNDS PER
		FOW	FACE OF WALL		SQUARE INCH
AGG	AGGREGATE	FR	FRAME(D), (ING)	PT	PAINT
ALT	ALTERNATE	FRT	FIRE-RETARDANT	PTN	PARTITION
AL	ALUMINUM	FT	FOOTING	PV	PAVE(D), (ING)
ANC	ANCHOR	FUR	FURRED(ING)	PVMT	PAVEMENT
ANOD	ANODIZED	FUT	FUTURE	QT	QUARRY TILE
AP	ACCESS PANEL	GA	GAGE, GAUGE	RAD	RADIUS
APX	APPROXIMATE	GALV	GALVANIZED	RB	RUBBER BASE
ARCH	ARCHITECT(URAL)	GD	GRADE, GRADING	RD	ROOF DRAIN
ASPH	ASPHALT	GEN	GENERAL	RE	REINFORCE(D),
AUTO	AUTOMATIC	GI	GALVANIZED IRON	REF	REFERENCE
		GL	GLASS, GLAZING	REFR	REFRIGERATOR
BD	BOARD	GLU-LAM	GLUE LAMINATED	REG	REGISTER
BEL	BELOW			RE	REMOVE
BET	BETWEEN	GPDW	GYP SUM DRYWALL	M	RESILIENT
BLDG	BUILDING	GT	GROUT	RE	RETURN
BLK	BLOCKING	GYP BD	GYP SUM BOARD	S	REVISION(S),
BM	BLUM			RE	REVISED
BOT	BOTTOM	HB	HOSE BIBB	RFG	ROOFING
BRG	BEARING	HC	HOLLOW CORE	RFH	ROOF HATCH
BS	BOTH SIDES	HD	HEAD	REFL	REFLECT(ED), (IVE),
BUR	BUILT UP ROOFING	HDR	HEADER		(OR)
		HDW	HARDWARE	RFT	RAFTER
		HM	HOLLOW METAL	RI	RISER
CAB	CABINET	HORIZ	HORIZONTAL	RL	RAIL(ING)
CB	CATCH BASIN	HT	HEIGHT	RM	ROOM
CEM	CEMENT	HVAC	HESATING /VENTILATING/	RO	ROUGH OPENING
CFT	CUBIC FOOT		AIR CONDITIONING	ROS	ROUGH SAWN
CHAM	CHAMFER	HWD	HARDWOOD	RO	RIGHT OF WAY
CI	CAST IRON	1-HR	ONE-HOUR FIRE	W	RESAWN
CIPC	CAST-IN-PLACE CONCRETE		RESISTIVE RATING	RS	REDWOOD
		2-HR	TWO-HOUR FIRE	BWD	SOUTH
CIR	CIRCLE		RESISTIVE RATING	SC	SOLID
CIRC	CIRCUMFERENCE	ID	INSIDE DIAMETER	SCH	CORE
CJT	CONTRACT JOINT	INCAND	INCANDESCENT	SEC	SCHEDULE
CK	CAULK(ING)	INS	INSULATE(D), (ION)	SECT	SECTION
CLG	CLEAR(ANCE)	INT	INTERIOR	SF	SQUARE FEET
CLR	CLOSURE	JAN	JANITOR	SH	SHELF, SHELVING
CLS	CENTIMETER(S)	JST	JOIST	SHT	SHEET
CM	CONCRETE	KPL	KICKPLATE	SHTG	SHEATHING
CMU	MASONRY UNIT	LAM	LAMINATE(D)	SIM	SIMILAR
		LAV	LAVATORY	SKL	SKYLIGHT
COL	COLUMN	LC	LIGHTWEIGHT CONCRETE	SPL	SPECIAL
COMB	COMBINATION	LDR	LADDER	SQ	SQUARE
COMP	COMPRESSION(ED), (ION), (IBLE)	LGT	LIGHT	SSK	SERVICE SINK
		LWT	LIGHTWEIGHT	STG	SEATING
COMPQ	COMPOSITION (COMPOSITE)	LVR	LOUVER	SG	STAINGRADE
COMPT	COMPARTMENT	M	MEN	SS	STAINLESS STEEL
CONC	CONCRETE	MAS	MASONRY	STD	STANDARD
CONC	CONSTRUCTION	MATL	MATERIAL(S)	STL	STEEL
CONST	CONTINUOUS OR CONTINUE	MAXI	MAXIMUM	STOR	STORAGE
CONT	CONTRACT(OR)	MB	MACHINE BOLT	STR	STRUCTURAL
CONTR	CORRUGATED	MECH	MEDIUM	SUSP	SUSPENDED
COPR	CARPET(ED)	MBR	MEMBER	SYS	SYSTEM
CPT	COUNTERSINK	MED	MECHANIC(AL)		
CSK	CERAMIC TILE	MFR	MANUFACTURE(R)	T	TEMPERED
CX	CONNECTION	MIN	MINIMUM	T&G	TONGUE
CYD	CUBIC YARD	MISC	MISCELLANEOUS	TEL	TELEPHONE
CYL	CYLINDER	ML&PL	METAL LATH & PLASTER	THK	THICK(NESS)
		MLD'G	MOLDING, MOULDING	THR	THRESHOLD
D	DRAIN	MO	MASONRY OPENING	TOC	TOP OF CONCRETE
DBL	DOUBLE	MR	MIRROR	TOIL	TOILET
DEMO	DEMOLISH, DEMOLITION	MT	MOUNT(ED), (ING)	TP	TOP OF PARAPET
DET	DETAIL	MTL	METAL	TPTN	TOILET PARTITION
DF	DOUGLAS FIR	MUL	MULLION	TR	TREAD
DIA	DIAMETER	MWK	MILLWORK	TRS	TRANSOM
DIM	DIMENSION	N	NORTH	TS	TOP SET
DISP	DISPENSER	NAT	NATURAL	TSH	TOP OF SHEATHING
DPR	DAMPER	NIC	NOT IN CONTRACT	TSL	TOP OF SLAB
DR	DOOR	NOM	NOMINAL	TST	TOP OF STEEL
DS	DOWNSPOUT	NTS	NOT TO SCALE	TV	TELEVISION
DWG	DRAWING	OC	ON CENTER(S)	TW	TOP OF WALL
DWR	DRAWER	OD	OUTSIDE DIAMETER	TYP	TYPICAL
		OFOI	OWNER FURNISHED	UC	UNDERCUT
E	EAST	OWNR	OWNER	UL	UNDERWRITER'S
EF	EACH FACE	OWNR	OWNER		LABORATORIES
ELEC	ELECTRIC(AL)	INSTALLED	INSTALLED	UNO	UNLESS NOTED OTHERWISE
ELEV	ELEVATOR	INSTALLED	INSTALLED	URIN	URINAL
EMER	EMERGENCY	OFCI	OWNER FURNISHED	V	VINYL
ENC	ENCLOSE(URE)	OWNR	OWNER	VB	VAPOR BARRIER
EQ	EQUAL	OWNR	OWNER	VCT	VINYL COMPOSITION
EQUIP	EQUIPMENT	OWNR	OWNER	VEN	VENEER
EST	ESTIMATE	OWNR	OWNER	VERT	VERTICAL
EWC	ELECTRIC WATER COOLER	OWNR	OWNER	VEST	VESTIBULE
		OWNR	OWNER	VTR	VENT THRU ROOF
EXG	EXISTING	OWNR	OWNER	W	WEST
EXH	EXHAUST	OWNR	OWNER	W	WOMEN
EXP	EXPANDED/ EXPANSION	OWNR	OWNER	WAINS	WAINSCOT
		OWNR	OWNER	WC	WATER CLOSET
EXT	EXTERIOR	OWNR	OWNER	WD	WOOD
FBO	FURNISHED BY OTHERS	OWNR	OWNER	WG	WIRED GLASS
		OWNR	OWNER	WH	WALL HUNG
FD	FLOOR DRAIN	OWNR	OWNER	WM	WIRE MESH
FEC	FIRE EXTINGUISHER	OWNR	OWNER	WND	WINDOW
		OWNR	OWNER	W/O	WITHOUT
FF	FACTORY FINISH	OWNR	OWNER	WP	WATERPROOFING
FFE	FINISHED FLOOR	OWNR	OWNER	WR	WATER REPELLANT
		OWNR	OWNER	WTV	WALL TO WALL
FFL	FINISHED FLOOR LINE	OWNR	OWNER	WWF	WELDED WIRE FABRIC
		OWNR	OWNER		
FG	FIXED GLASS	OWNR	OWNER		
FHC	FIRE HOSE	OWNR	OWNER		
		OWNR	OWNER		
FIN	FINISHED(ED)	OWNR	OWNER		
		OWNR	OWNER		

PLUMBING SYSTEMS

CD	CONDENSATE DRAIN
PCD	PUMPED CONDENSATE DRAIN
CW	DOMESTIC COLD WATER
HW	DOMESTIC HOT WATER (120° F)
HWR	DOMESTIC HOT WATER RETURN (120° F)
HW(140° F)	DOMESTIC HOT WATER (140° F)
HWR(140° F)	DOMESTIC HOT WATER RETURN (140° F)
TW	TEMPERED WATER (105° F)
ICW	INDUSTRIAL COLD WATER
IRR	IRRIGATION
RCW	RAW COLD WATER
SCW	SOFT COLD WATER
F	FIRE PROTECTION
W	WASTE ABOVE GROUND
W	WASTE BELOW GROUND
V	SANITARY VENT
TP	TRAP PRIMER
GW	GREASE WASTE
SD	STORM DRAIN
OD	STORM DRAIN OVERFLOW
SSD	SUBSURFACE DRAINAGE
FOF	FUEL OIL FILL
FOS	FUEL OIL SUPPLY
FOR	FUEL OIL RETURN
AW	ACID WASTE
AV	ACID VENT
G	LOW PRESSURE NATURAL GAS (8" WC)
LPG	LIQUEFIED PETROLEUM GAS (PROPANE)
MPG	MEDIUM PRESSURE NATURAL GAS (5 PSIG)
HPG	HIGH PRESSURE NATURAL GAS
A	COMPRESSED AIR
VAG	VACUUM
N	MEDICAL NITROGEN
N2O	MEDICAL NITROUS OXIDE
Co2	CARBON DIOXIDE
(E)	EXISTING PIPING
(G)	DEMOLITION WORK
2%	SLOPE DOWN IN DIRECTION OF FLOW

PLUMBING SYMBOLS

	ROUND / SQUARE FLOOR DRAIN OR EMERGENCY FLOOR DRAIN
	ROOF DRAIN/OVERFLOW DRAIN
	FLOOR SINK - FULL, 1/2 & 3/4 GRATE
	TRENCH DRAIN
	SLOPE
	HOSE BIBB, EXPOSED
	HOSE BIBB, RECESSED
	FLOOR CLEANOUT/ CLEANOUT TO GRADE
	CLEANOUT/WALL CLEANOUT
	P-TRAP
	WATER HAMMER ARRESTOR

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DRAWN	CH	CHECKED	
DATE			09/22/21
SCALE			AS NOTED
PROJECT NUMBER			
SHEET			<b>P002</b>



NEKTER - LEE'S SUMMIT, MO

940 NW PRYOR ROAD, UNIT: G,  
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PROJECT NAME

PROJECT NUMBER

SHEET NAME

P003

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RELEASE FOR CONSTRUCTION AS NOTED ON PLANS REVIEW DATE: 09/22/21

KD

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STEPHEN D. HEATH  
REGISTERED PROFESSIONAL ENGINEER  
NUMBER 15779  
STATE OF MISSOURI

NOT FOR CONSTRUCTION

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REVISIONS

No.	DATE	DESCRIPTION
1	09-22-21	POC #1, CLIENT AND LANDLORD REVISIONS

CLIENT INFORMATION

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JUICE BAR.

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LEE'S SUMMIT, MISSOURI 64081

SHEET NAME  
PLUMBING SPECIFICATION

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PIPING INSULATION TABLE						
MINIMUM PIPE INSULATION						
FLUID/OUTSIDE TEMPERATURE	PIPE DIAMETER (INCH)					
	≤ 1"	1.25"-2"	2.5"-4"	5"-6"	≥ 8"	
306-460	2.5	2.5	3.0	3.5	3.5	
251-305	2.0	2.5	2.5	3.0	3.0	
201-250	1.5	1.5	2.0	2.0	2.0	
105-200	1.0	1.0	1.5	1.5	1.5	
61-104	1.0	1.0	1.5	1.5	1.5	
40-60	0.5	.75	1.0	1.0	1.0	
BELOW 40	1.0	1.5	1.5	1.5	1.5	
STEAM CONDENSATE	1.0	1.5	2.0	2.0	2.0	
THE THICKNESS OF INSULATION LISTED IN THIS TABLE IS BASED ON MATERIALS HAVING A THERMAL RESISTANCE IN THE RANGE OF R-4.0 TO R-4.6 PER INCH. ADJUSTMENTS ARE REQUIRED FOR INSULATION MATERIALS OUTSIDE THIS RANGE.						

PLUMBING FIXTURE AND EQUIPMENT SCHEDULE/CONNECTIONS						
MARK	FIXTURE	FIXTURE ROUGH-IN				DESCRIPTION
		W	V	CW	HW	
<u>WC-1</u>	WATER CLOSET (FLUSH TANK)	4"	2"	3/4"	-	AMERICAN STANDARD CADET FLOWIS MODEL # 2467.100 ELONGATED PRESSURE-ASSISTED TOILET WITH 1.1 GPF, VITREOUS CHINA, ADA COMPLIANT, OR EQUIVALENT.
<u>MS-1</u>	MOP SINK	3"	2"	3/4"	3/4"	MUSTEE/T&S MODEL #63M/ B-0665-BSTR COMPOSITE SINK WITH BACK FLOW PREVENTER DEVICE WITH MOUNTING MIXING VALVE MUSTEE/ T& S 63M / B-0665-BSTR.
<u>L-1</u>	LAVATORY	2"	2"	1/2"	1/2"	AMERICAN STANDARD LUCERNE WALL MOUNTED SINK MODEL #0355.012, COMPLETE WITH T&S BRASS MODEL # B-2711. MOUNT PER ADA/T-24 REQUIREMENTS.
<u>MV-1</u>	MIXING VALVE	-	-	1/2"	1/2"	MIXING VALVE WATTS - MODEL #LFMMV-M1, SET OUTLET TEMPERATURE AT 105°F.
<u>TP-1</u>	TRAP PRIMER	-	-	1/2"	-	PRECISION PLUMBING PRODUCTS TRAP PRIMER MODEL PR-500, AUTOMATIC PRESSURE DROP ACTIVATED, OR EQUIVALENT.
<u>FS-1</u>	FLOOR SINK	2"	1-1/2"	-	-	FLOOR SINK ZURN MODEL # Z1900-25; 12X12 SQ.X6" DEEP INDIRECT SANITARY WASTE DRAIN.
<u>BFP-1</u>	BACK FLOW PREVENTER	-	-	1/2"	-	ZURN, MODEL # 740 ; DOUBLE CHECK VALVE ASSEMBLY.
<u>CP-1</u>	RE-CIRCULATION PUMP	-	-	1/2"	-	BELL & GOSSETT MODEL NO NBF-12U-LW, ALL BRONZE LEAD FREE CIRCULATOR WITH UNION CONNECTION, 115V. 55 WATT, 2800 RPM, 5 GPM FLOW RATE AT 8 FEET OF HEAD. OPERATING WEIGHT = 10 LBS.
<u>WCO</u>	WALL CLEANOUT	SEE PLANS	-	-	-	ZURN WALL CLEANOUT MODEL Z1441-VP, DURA-COATED CAST IRON BODY, GAS AND WATERTIGHT, VANDAL PROOF SCREWS, COORDINATE FINAL LOCATIONS AND FINISH WITH ARCHITECTURAL.
<u>FD-1</u>	FLOOR DRAIN	2"	1-1/2"	-	-	ZURN MEDIUM DUTY FLOOR DRAIN MODEL Z507, 7" TOP DRAIN, DURA-COATED CAST IRON BODY, OR EQUIVALENT. 3' / 2% SLOPE TO ALL FLOOR DRAINS. OR EQUIVALENT.
<u>HS-1</u>	HAND SINK	2"	1-1/2"	1/2"	1/2"	KROWNE HAND SINK MODEL # HS-26L W/ SPLASH GUARDS, T&S BRASS FAUCET WITH MIXING VALVE (MV-1)
<u>1CS-1</u>	1 - COMPARTMENT SINK	2" INDIRECT	1-1/2"	1/2"	1/2"	GSW, 1-COMPARTMENT SINK MODEL # SE18181L COMPLETE WITH FAUCET ASSEMBLY T&B RASS. MUST HAVE A WASTE HANDLE BRACKET PER BOWL FOR TRAP (FX25). PROVIDE T&S BRASS WASTE VALVE.
<u>3CS-1</u>	3 -COMPARTMENT SINK	2" INDIRECT	1-1/2"	1/2"	1/2"	GSW, 3-COMPARTMENT SINK MODEL # SE18183C COMPLETE WITH PRE-RINSE AND FAUCET ASSEMBLY T&S BRASS. MUST HAVE A WASTE HANDLE BRACKET PER BOWL FOR TRAP (FX25). COMPLETE WITH WASTE VALVE T&S BRASS.
<u>SF-1</u>	SINGLE FAUCET	-	-	1/2"	-	T&B FAUCET MODEL # B-0212 WITH WATER FILTER (WF-1) .
<u>IM-1</u>	ICE MAKER	INDIRECT	-	1/2"	-	ICE-O-MATIC ICE MAKER WITH WATER FILTER MODEL # IFQ1.
<u>GT-1</u>	GREASE TRAP	2"	-	-	-	ENDURA HYDRO-MECHANICAL GREASE TRAP MODEL # 3950A03, 50GPM @100 lbs CAPACITY.
<u>WF-1</u>	WATER FILTER	--	--	1/2"	--	WATER FILTER MODEL # IFQ1 SINGLE FILTER FLOW RATE 1.5 GPM, 3 lbs.
<u>WH-1</u>	ELECTRIC WATER HEATER	-	-	3/4"	3/4"	A.O SMITH ELECTRIC WATER HEATER MODEL # DEN-52 .
<u>ET-1</u>	EXPANSION TANK	--	--	1/2"	--	EXPANSION TANK AMTROL THERM-X-TROL EXPANSION TANK MODEL ST-5, 2.0 GALLONS
NOTES: 1. CONTRACTOR TO VERIFY THAT ALL PLUMBING FIXTURES ARE FOR INSTALLATION ON EXPOSED SLAB. 2. SEE ARCHITECT PLANS SPECIFICATIONS FOR ADDITIONAL INFORMATION.						

WATER AND DRAINAGE CALCULATION							
Fixture Type	QTY	Each			Total		
		W	CW(100%)	HW	W	CW(100%)	HW(75%)
Water Closet (FT)	1	4.0	2.5	0.000	4.0	2.5	0.000
Lavatory	1	1.0	1.0	0.750	1.0	1.0	0.750
3-Comp. Sink	1	3.0	4.0	3.000	3.0	4.0	3.000
Sink (HS-PS)	3	2.0	1.5	1.125	6.0	4.5	3.375
Mop Sink	1	3.0	3.0	2.250	3.0	3.0	2.250
Hose Bibb	1	0.0	2.5	0.000	0.0	2.5	0.000
Hose Bibb (additional)	1	0.0	1.5	0.000	0.0	1.5	0.000
Ice Maker+SF	2	0.0	1.0	0.000	0.0	2.0	0.000
Floor Sink/Drain	6	2.0	0.5	0.000	12.0	3.0	0.000
Total		0.0	1.0	0.000	0.0	0.0	0.000
		2.0	0.0	0.000	0.0	0.0	0.000
	17				29.0	24.0	9.375
						17 GPM	

RELEASE FOR CONSTRUCTION  
AS NOTED ON PLANS REVIEW  
STATE OF MISSOURI  
1/16/2021

KD

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STEPHEN D. HEATH  
NUMBER  
RE-37397

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REVISIONS  

No.	DATE	DESCRIPTION
1	09-22-21	PCC #1, CLIENT AND LANDLORD REVISIONS

CLIENT INFORMATION

néktər

JUICE BAR.

PROJECT NAME  
NEKTER - LEE'S SUMMIT, MO  
940 NW PRYOR ROAD, UNIT: G;  
LEE'S SUMMIT, MISSOURI 64081

SHEET NAME  
PLUMBING SCHEDULES

DRAWN  
RH

CHECKED

DATE  
09/22/21

SCALE  
AS NOTED

PROJECT NUMBER

SHEET  
P004

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REVISIONS

No.	DATE	DESCRIPTION
1	09-22-21	PCC #1, CLIENT AND LANDLORD REVISIONS

CLIENT INFORMATION

néktər  
JUICE BAR.

NEKTER - LEE'S SUMMIT, MO

940 NW PRYOR ROAD, UNIT: G,  
LEE'S SUMMIT, MISSOURI 64081

SHEET NAME

PLUMBING FLOOR PLAN

DRAWN	RH	CHECKED
DATE		09/22/21
SCALE		AS NOTED
PROJECT NUMBER		
SHEET		

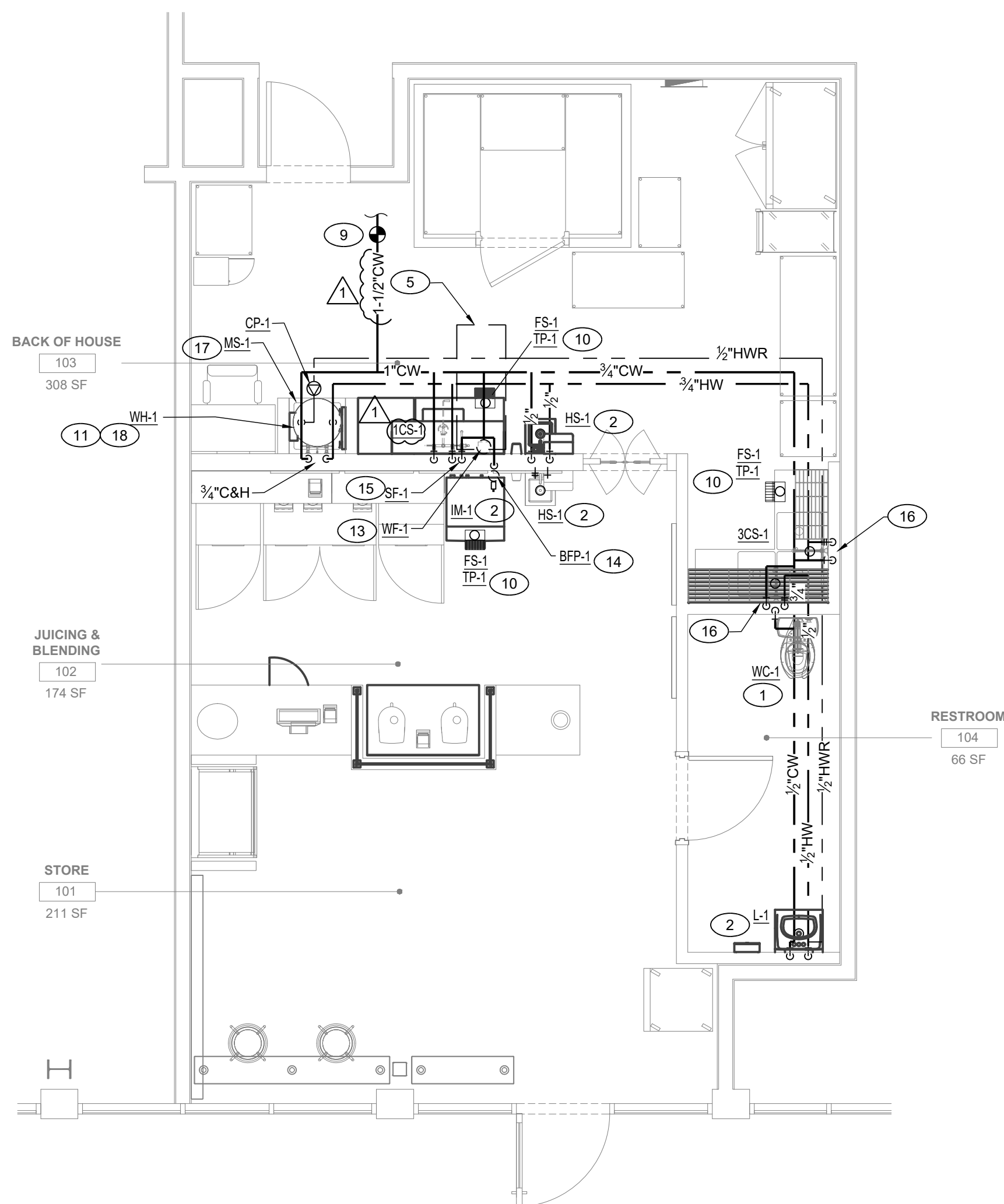
P200

GENERAL NOTES

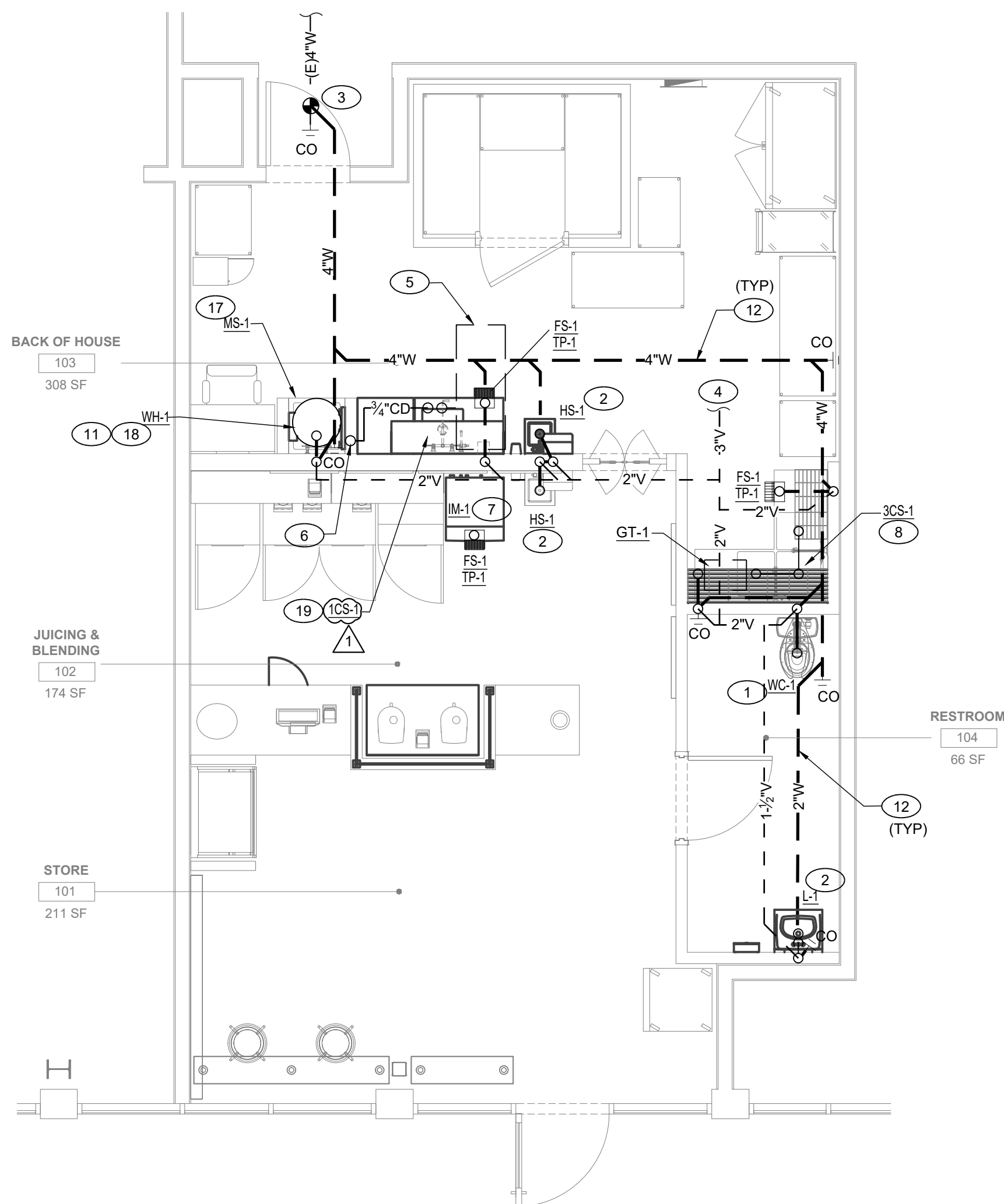
- PRIOR TO DETAILING & INSTALLING PLUMBING AND FIRE PROTECTION PIPING COORDINATE EXACT ROUTING AND ELEVATIONS WITH MECHANICAL, ELECTRICAL AND FIRE SPRINKLER CONTRACTORS. PROVIDE WRITTEN CONFIRMATION THAT THIS COORDINATION HAS BEEN IMPLEMENTED PRIOR TO PROCEEDING WITH INSTALLATION OF PIPING.
- PRIOR TO INSTALLATION OF SEWER AND WATER PIPING BELOW GRADE COORDINATE EXACT LOCATIONS AND DEPTHS OF BURIAL WITH CIVIL AND FOUNDATION DRAWINGS AND CORRESPONDING ENGINEERS.
- ALL PLUMBING FIXTURES SHALL BE WATER CONSERVATION TYPE AS MANDATED BY LOCAL BUILDING DEPARTMENT.
- ALL PLUMBING FIXTURES SHALL HAVE AN ANGLED SHUT OFF VALVE.
- ALL PLUMBING FIXTURES SHALL HAVE A TRAP INSTALLED AND SHALL BE PROPERLY VENTED IN ORDER TO MAINTAIN THE TRAP SEAL.
- ALL PLUMBING FLOOR SINKS, FLOOR DRAINS, MOP SINKS, AND HUB DRAINS SHALL HAVE A TRAP PRIMER INSTALLED AND SHALL BE PROPERLY VENTED IN ORDER TO MAINTAIN THE TRAP SEAL.
- FAUCET CONTROLS AND OPERATING MECHANISMS SHALL BE OPERABLE WITH ONE HAND AND SHALL NOT REQUIRE TIGHT GRASPING, PINCHING, OR TWISTING OF THE WRIST. THE FORCE REQUIRED TO ACTIVATE CONTROLS SHALL NOT BE GREATER THAN 5 LB-FT.
- HOT WATER AND DRAIN PIPES EXPOSED UNDER SINKS SHALL BE INSULATED OR OTHERWISE CONFIGURED SO AS TO PROTECT AGAINST CONTACT. THERE SHALL BE NO SHARP OR ABRASIVE SURFACES UNDER SINKS.
- ALL WATER CLOSETS DESIGNATED AS HANDICAP SHALL BE INSTALLED SUCH THAT THE ACTUATOR IS OPERABLE FROM THE WIDE SIDE OF THE WATER CLOSET.
- NOT ALL PIPING, DUCTWORK, OR DEVICES HAVE BEEN SHOWN FOR CLARITY. CONTRACTOR IS RESPONSIBLE FOR ALL WORK IN AND AROUND SYSTEMS NOT SHOWN HEREIN.
- THE CONTRACTOR SHALL, BEFORE SUBMITTING ANY PROPOSAL, EXAMINE THE SITE AND SHALL DETERMINE FOR HIMSELF THE CONDITIONS THAT MAY AFFECT THE WORK. NO ALLOWANCE SHALL BE MADE IF THE CONTRACTOR FAILS TO MAKE SUCH EXAMINATIONS.
- PRIOR TO STARTING CONSTRUCTION, DETERMINE EXACT INVERT ELEVATION, SIZE, DEPTH, DIRECTION OF FLOW AND LOCATION OF EXISTING UTILITIES WHERE CONNECTIONS ARE TO BE MADE OR INTERSECTIONS OCCUR. NOTIFY ARCHITECT OR ENGINEER FOR DISCREPANCY BETWEEN DRAWINGS AND ACTUAL FIELD CONDITIONS. WORK BACK TOWARD BUILDING FROM UTILITY CONNECTION FOR ALL PIPING SYSTEMS.
- CONTRACTOR TO REMOVE ALL EXISTING PIPING THAT WILL NOT BE REUSED. ABANDONED PIPES ARE NOT ACCEPTABLE.
- CONTRACTOR SHALL PROVIDE AND INSTALL ANY INCIDENTAL WORK OR ITEMS NOT SHOWN OR SPECIFIED WHICH ARE NECESSARY TO PROVIDE A COMPLETE AND WORKABLE SYSTEM.

SHEET NOTES:

- 3/4" CW WATER 4" WASTE AND 2" VENT CONNECT TO WATER CLOSET.
- 1/2" CW, 1/2" HW, 2" WASTE AND 1-1/2" VENT CONNECT TO LAVATORY /SINK. PROVIDE MIXING VALVE.
- POINT OF CONNECTION TO EXISTING WASTE LINE. CONTRACTOR TO VERIFY IN THE FIELD EXACT LOCATION OF THE EXISTING WASTE LINE PRIOR TO START OF WORK.
- 3" VENT PIPE TO POINT OF CONNECTION OF EXISTING VENT PIPE IN CEILING. CONTRACTOR TO VERIFY IN THE FIELD EXACT LOCATION AND SIZE OF THE EXISTING VENT LINE PRIOR TO START OF WORK.
- EXISTING MECHANICAL UNIT ON CEILING SPACE.
- PROVIDE 3/4" CD LINE FROM FAN COIL DOWN IN WALL, AND TERMINATE TO MOP SINK.
- EXTEND INDIRECT DRAIN PIPING FROM ICE MAKER TO FLOOR SINK.
- EXTEND INDIRECT DRAIN PIPING FROM 3-COMP. SINK TO FLOOR SINK.
- POINT OF CONNECTION OF EXISTING COLD WATER ON CEILING. EXISTING SUB-METER AND SPACE SHUT-OFF VALVE TO REMAIN. CONTRACTOR TO VERIFY IN THE FIELD, EXACT LOCATION AND SIZE PRIOR TO START OF WORK.
- 1/2" COLD WATER DOWN TO TRAP PRIMER FOR FLOOR DRAIN. PROVIDE 10"X10" ACCESS PANEL FOR TRAP-PRIMING DEVICE. INSTALL TP VALVE AT LEAST 12" ABOVE FINISHED FLOOR WITH BALL VALVE.
- INSTALL ELECTRIC WATER HEATER HANGING ON WALL ABOVE MOP SINK. SEE SHEET P004 FOR MORE INFORMATION.
- WASTE LINE ON THE BASEMENT CEILING SPACE. CONTRACTOR VERIFY IN THE FIELD, FOR EXACT LOCATION OF NEW WASTE LINE.
- WATER FILTER LOCATION FOR ICE MAKER AND SINGLE WALL FAUCET AT SINGLE COMP. SINK.
- PROVIDE BFP FOR FILTERED WATER TO ICE MACHINE.
- 1/2" COLD FILTERED WATER CONNECT TO SINGLE FAUCET.
- 1/2" CW AND 1/2" HW CONNECT TO 3-COMP. SINK.
- 3/4" CW, 3/4" HW, 3" WASTE AND 2" VENT CONNECT TO MOP SINK.
- 1" CW AND 1" HW CONNECT TO WATER HEATER. 3/4" DRAIN LINE DOWN TO MOP SINK. TERMINATE W/2" AIR GAP.
- EXTEND INDIRECT DRAIN PIPING FROM 1 COMP. SINK TO FLOOR SINK.



DOMESTIC WATER



WASTE AND VENT

1 PLUMBING FLOOR PLAN  
1/4" = 1'-0"

