

1. SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
2. ALL DRAWN WATER & GAS LINES SHALL BE KEPT TIGHT TO THE UNDERSIDE OF EQUIPMENT & SECURED IN PLACE.
3. CONTRACTOR SHALL VERIFY THE LOCATION OF THE SANITARY SEWER ON THE SITE PLAN AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.
4. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS IN RESTROOMS, WHERE REQUIRED BY CODES. PROVIDE DEEP SEAL TRAPS FOR FLOOR DRAINS WITHOUT TRAP PRIMERS.
5. ALL CLEANOUTS SHALL BE INSTALLED WHERE READILY ACCESSIBLE. THE CONTRACTOR SHALL COORDINATE ALL CLEANOUT LOCATIONS WITH EQUIPMENT, CABINETS, ETC. AND THE OWNERS REPRESENTATIVE PRIOR TO ANY INSTALLATION.
6. ALL VALVES, TRAP PRIMERS, WATER HAMMER ARRESTORS OR OTHER EQUIPMENT SHOWN IN WALLS OR ABOVE NON-ACCESSIBLE CEILING SHALL BE INSTALLED BEHIND AN ACCESS PANEL.
7. ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKE.
8. PROVIDE GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.
9. INSTALL SHUT-OFF VALVES ON ALL HOT & COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED.
10. PROVIDE A LEVER HANDLE GAS SHUT-OFF VALVE IN THE BRANCH PIPING OF EACH APPLIANCE OR PIECE OF EQUIPMENT. FOR EACH APPLIANCE INSTALL QUICK DISCONNECT, FLEXIBLE PIPE WHEN ALLOWED BY CODE AND RESTRAINING DEVICE FURNISHED BY OWNER. PROVIDE PRESSURE REDUCING VALVES AT EACH PIECE OF EQUIPMENT OR APPLIANCE. IF GAS PRESSURE GREATER THAN 10"wc IS USED DOWNSTREAM FROM THE GAS METER.
11. ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
12. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR PLUMBING ROUGH-IN SCHEDULE & FOR ADDITIONAL WORK TO BE FURNISHED & INSTALLED BY CONTRACTOR. ALL ROUGH-IN PLUMBING AND FINAL CONNECTIONS TO KITCHEN EQUIPMENT SHALL BE MADE BY THE CONTRACTOR U.O.N.
13. REFER TO MECHANICAL SHEETS FOR HVAC AND HOOD PLUMBING REQUIREMENTS.
14. ALL GAS LINES SHALL BE SUPPORTED SEE SPECS.
15. ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO FLOOR SURFACE.
16. PROVIDE WATER HAMMER ARRESTOR FOR ALL HAND SINKS AND URINAL WATER LINES.
17. PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR GAP SHALL BE MINIMUM 2 TIMES THE DIAMETER OF THE INDIRECT DRAIN.
18. PRIOR TO COMMENCING WORK ON THIS PROJECT, VERIFY DEPTH, SIZE, LOCATION AND CONDITION OF ALL EXISTING UTILITIES IN FIELD. SHOULD CONDITIONS EXIST OTHER THAN THOSE INDICATED WHICH WOULD CAUSE THE DESIGN TO BE ALTERED, CONTRACTOR SHALL NOTIFY OWNER IMMEDIATELY.
19. COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. CONTRACTOR SHALL REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.
20. FURNISH & INSTALL ALL BACKFLOW PROTECTION DEVICES REQUIRED BY AGENCIES HAVING JURISDICTION. BACKFLOW DEVICES REQUIRING TESTING SHALL BE INSTALLED NO HIGHER THAN 5'-0" A.F.F.
21. PROVIDE CONDENSATE DRAIN FROM A/C UNITS TO APPROVED DRAIN, GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.
22. THE OWNER OR KITCHEN EQUIPMENT SUPPLIER MAY SUBSTITUTE EQUIPMENT OR THE EQUIPMENT MAY VARY FROM WHAT IS SHOWN. THEREFORE, VERIFY ALL CRITICAL DIMENSIONS WITH THE OWNER PRIOR TO CONSTRUCTION. FAILURE TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.
23. ALL WATER LINES SHALL BE RUN OVERHEAD U.O.N.
24. ALL WATER LINES SHALL BE FLUSHED PRIOR TO CONNECTING ANY FIXTURES OR EQUIPMENT.
25. PROVIDE ESCURCHEON PLATES AND SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULK OR EXPANDING FOAM FOR SEALANT.

GENERAL NOTES

E

EQUIPMENT	GALLONS per HOUR
MOP SINK (S-2)	20
1-COMP. PREP. SINK (S-4)	60
3-COMP. SINK (S-3)	90
FLOOR SINKS / DRAINS	30
TOTAL	200.0 GALLONS
SIZING FACTOR (75%)	150.0 GALLONS
SAFTEY FACTOR (+ 25%)	187.5 GALLONS
SIZE SELECTED	1,000 GALLONS

SIZE BASED ON INTERNATIONAL PLUMBING CODE

GREASE TRAP DESIGN INFORMATION

F

SYMBOLS	ABBREV.	DESCRIPTION
	Y.B.	YARD BOX
	R.D.	ROOF DRAIN
	A.P.	ACCESS PANEL
	V.T.R.	VENT THRU ROOF
	V.B.F.	VENT BELOW FLOOR
	U.T.R.	UP THRU ROOF
	V.C.P.	VITRIFIED CLAY PIPE
	C.I.	CAST IRON
	A.C.P.	ASBESTOS CEMENT PIPE
	(N)	NEW
	(E)	EXISTING
⊕	F.D.	FLOOR DRAIN
⊙	H.D.	HUB DRAIN
	OFD	OVERFLOW DRAIN
⊠	F.S.	FLOOR SINK
	G.L.	GAS LINE
	A.F.F.	ABOVE FINISHED FLOOR
⊗-X-⊗		PLUMBING EQUIPMENT DESIGNATION
⊗-XX-⊗		KITCHEN EQUIPMENT NUMBER: REFER TO KITCHEN EQUIP. DRAWINGS FOR DESCRIPTION.
—SS—	SS	SOIL OR WASTE (SANITARY) WASTE STUB
—GW—	GW	SOIL OR WASTE (GREASE WASTE)/WASTE STUB
—G—	G	GAS / GAS STUB
—CW—	CW	COLD WATER / CW STUB
—HW—	HW	HOT WATER / HW STUB
—HWR—	H.W.R.	HOT WATER RETURN
— — — — —	V.	SANITARY VENT
—SD—	S.D.	STORM DRAIN
—CD—	C.D.	CONDENSATE DRAIN
⌀—	F.C.O.	FLOOR CLEANOUT OR CLEANOUT TO GRADE
— —	W.C.O.	WALL CLEANOUT
—FW—	FW	FILTERED WATER
—TW—	TW	PREMIXED TEMPERATURE WATER
+	H.B.	HOSE BIBB
— — —	S.O.V.	SHUT-OFF GATE VALVE
— — —	S.O.C.	SHUT-OFF GAS COCK
— — —	C.V.	CHECK VALVE
— — —	P.T.R.V.	PRESS-TEMPERATURE RELIEF VALVE
— — —	B.V.	BALL VALVE
— — —	C.W.	COLD WATER BELOW GRADE
⊠	E.C.O.	EXTERIOR CLEAN OUT
	BFP	BACK FLOW PREVENTER
	FU	FIXTURE UNIT

PLUMBING LEGEND

C

FIXTURE	QTY.	DRAIN				COLD WATER		HOT WATER	
		F.U.	SAN. WASTE	GREASE WASTE	TOTAL F.U.	F.U. CW	TOTAL CW	F.U. HW	TOTAL HW
WATER CLOSET (WC-1)	2	4	8		8	2	4		
LAVATORY (L-1)	2	1	2		2	1.5	3	1.5	3
HAND SINK (S-1)	3	2	6		6	1.5	4.5	1.5	4.5
PREP. SINK (S-4) **	1					3	3	3	3
3-COMP. SINK (S-3) **	1					3	3	3	3
HOSE BIBB (HB-1,2,3)	4					2.5/1	4.5		
WATER FILTER <S-287>	1					1	1		
WATER FILTER <S-288>	1					1	1		
FLOOR DRAIN (FD-1)	9	2	4	14	18				
TRENCH DRAIN (TD-1)	-								
HUB DRAIN (HD-1)	5	2	2	8	10				
FLOOR SINK (FS-1)	3	6		18	18				
MOP SINK (S-2)	3	2		6	6	2.25	6.75	2.25	6.75
URINAL (UR-1)	1	2	2		2	5	5		
TOTAL			24	46	70		35.75		20.25

BASED ON 2006 IPC (COMBINATION DRAIN & VENT)

37.75 FU = 27.02 GPM USE 1-1/2" COLD WATER SERVICE
20.25 FU = 21.14 GPM USE 1" HOT WATER SERVICE

GREASE WASTE = 46 WFU USE 4" SANITARY (GREASE)
TOTAL SANITARY = 74 WFU USE 4" SANITARY

** FIXTURE HAS INDIRECT WASTE TO FLOOR SINK.

PLUMBING FIXTURE SUMMARY

D

ITEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	TEMPD WATER	WASTE FU	WATER FU	DESCRIPTION	MANUFACTURER / MODEL NUMBER
BFP 1	BACKFLOW PREVENTOR			VERIFY				1	REDUCED PRESSURE ZONE BACKFLOW PREVENTER, CAST BRONZE CONSTRUCTION WITH QUARTER TURN FULL-PORT BALL VALVES AND BRONZE STRAINER.	WATTS / MODEL: 009M2QTS WILKINS / MODEL: 975XLS FEBCO / MODEL: 860 J.R. SMITH / MODEL: 3120
DN 1	DOWNSPOUT NOZZLE	4"							CAST BRONZE BODY AND FLANGE DOWNSPOUT WITH BIRDSCREEN. MOUNT NOZZLE 12" ABOVE FINISH GRADE.	
ECO 1	EXTERIOR CLEANOUT								CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400
ET 1	EXPANSION TANK			3/4"					EXPANSION TANK, STEEL, EXPANSION MEMBRANE 150 PSI, 160° F, 12 GALLON CAPACITY. MOUNT EXPANSION TANK WITH CHECK & SHUT OFF VALVES ABOVE WATER HEATER.	WATTS SERIES DET AMTROL SERIES ST WILKINS SERIES WXTF
FCO 1	FLOOR CLEANOUT								CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, ROUND SCORIATED HEAVY CAST IRON COVER.	JOSAM / MODEL: 56000 WADE / MODEL: 6000Z ZURN / MODEL: Z-1400
FD 1	FLOOR DRAIN	3"	1-1/2"				2		PVC FLOOR DRAIN, 5" DIA. IF PVC OR ABS DRAINS ARE USED, SCHEDULE 80 PVC DRAIN PIPE SHALL BE USED FOR THE FIRST 10'-0" FROM THE DRAIN	ZURN / MODEL: FD-2210 JOSAM / MODEL: 30003-A WADE / MODEL: 1103
FS 1	FLOOR SINK	4"	2"				6		PVC 12" SQUARE FLOOR SINK, 8" DEEP, WITH ALUMINUM OR PVC DOME STRAINER AND LOOSE SET PVC SLOTTED TOP GRATE. SET FLOOR SINK LIP FLUSH WITH FLOOR TILE.	JOSAM / MODEL: JPF54-PVC ZURN / MODEL: FD-2370-PV4-DS-F
GI 1	GREASE INTERCEPTOR	6"							PROVIDE 1,600 GALLON GREASE INTERCEPTOR OR SIZE AS REQUIRED BY AHJ. SEE CIVIL PLAN FOR EXTERIOR GREASE INTERCEPTOR SIZE AND LOCATION.	
HB 1	HOSE BIBB			3/4"				2.5/1	FREEZE PROOF WALL HYDRANT WITH BRONZE RECESSED BOX, WHEEL HANDLE, 3/4" HOSE CONNECTION, INTEGRAL VACUUM BREAKER, HINGED LOCKING COVER, ADJUSTABLE WALL CLAMP.	SMITH 5509QT
HB 2	HOSE BIBB			3/4"				2.5/1	WALL FAUCET WITH INTEGRAL VACUUM BREAKER MAX PRESSURE OF 125 PSI	WOODFORD / MODEL: 24
HB 3	HOSE BIBB			3/4"				2.5/1	FREEZE PROOF ROOF HYDRANT WITH GALVANIZED CASING, WHEEL HANDLE, 3/4" HOSE CONNECTION, INTEGRAL VACUUM BREAKER,AND ROOF DECK CLAMP,	SMITH 5906
HD 1	HUB DRAIN	3"	1-1/2"				2		CAST IRON DEEP SEAL P-TRAP WITH FUNNEL, NO-HUB OUTLET AND BRASS GASKETED CLEANOUT PLUG.	JOSAM / MODEL: 88213 WADE / MODEL: 2453EF ZURN / MODEL: Z-1019
L 1	LAVATORY	2"	1-1/2"			1/2"	1	1.5	WHITE VITREOUS CHINA, WALL HUNG, WITH CONCEALED ARMS SUPPORT, SINGLE HOLE, ADA ACCESSIBLE, FLAT GRID STRAINER FAUCET: SINGLE HOLE, POLISHED CHROME SEE 4 / P6.0 FOR LAV SUPPORT DETAIL.	LAVATORY: KOHLER / MODEL: K-2084 FAUCET: KOHLER / MODEL: K-18140-CP
ALTERNATE SPECIFICATION: VERIFY with OWNER										SLOAN / MODEL: EAF-275-ISM McGUIRE / MODEL: 155A McGUIRE / MODEL: 2165CCLK McGUIRE / MODEL: 8872CF HANDI LAV-GUARD / MODEL: 102
MV 1	MIXING VALVE			1/2"	1/2"				THERMOSTATIC, 125 PS16, 200VF BRONZE BODY, STAINLESS STEEL PISTON LINER, ASSE 1070 CERTIFIED, CHECK VALVES SIZE PER PIPE CONNECTIONS.	HYDROTEK SERIES HBL LAWLER SERIES 61 LEONARD SERIES 210
OFD 1	OVERFLOW DRAIN	4"							DUCO CAST BRONZE BODY AND FLASHING COLLAR WITH COMBINED FLASHING CLAMP AND CAST IRON DOME, 2" PVC STANDPIPE AND UNDER-DECK CLAMP.	JOSAM / MODEL: 21500
RD 1	ROOF DRAIN	4"							DUCO CAST BRONZE BODY AND FLASHING COLLAR WITH COMBINED FLASHING CLAMP AND CAST IRON DOME, SUMP RECEIVER AND UNDER-DECK CLAMP.	JOSAM / MODEL: 21500
S 1	HAND SINK	2"	1-1/2"			1/2"	2	1.5	S-1: STAINLESS STEEL HAND SINK, WALL HUNG, INCLUDES A 6" GOOSENECK STAINLESS. FAUCET W/FOOT VALVE PER DETAIL 3 / P6.0.	
S 2	MOP SINK	3"	1-1/2"	1/2"	1/2"		2	2.25	AERO MANUFACTURED MOP SINK, 3MP21216, 24" x 24" x 10", FURNISHED WITH WALL PANELS.	
S 3	3-COMP. SINK	INDIRECT		1/2"	1/2"			3	SINK, FAUCET, DRAIN & PRE-RINSE KIT	
S 4	PREP SINK	INDIRECT		1/2"	1/2"			3	SINK, FAUCET AND DRAIN	
SA 1	SHOCK ARRESTOR			1/2"					STAINLESS STEEL CASING WITH STAINLESS STEEL BELOW, PRECHARGED WITH NITROGEN. SIZED PER PDI-WH201	WADE / SHOKSTOP JOSAM / MODEL: 75000 ZURN / SHOKTROL
TD 1	4" WIDE S/S PERFORRATED	3"	1-1/2"						PRE-CAST MODULAR SECTIONS. .5% BUILT-IN SLOPE PERFORRATED STAINLESS STEEL COVER	ADCO ENVIRO FLO
UR 1	URINAL	2"	1-1/2"	3/4"			2	5	WHITE VITREOUS CHINA, WALL HUNG, TOP INLET, ADA COMPLIANT, 0.5 GPF, WITH WALL HANGER FLUSH VALVE: TMU1LN12#CP (or) SLOAN ROYAL 186-1, ZURN Z6003 AV-WSI, DELANEY DL-F452.	TOTO / UT104E
ALTERNATE SPECIFICATION: VERIFY with OWNER										AMERICAN STANDARD / MODEL: 6561.017 SLOAN "SOLIS" / MODEL: 8186-0.13
WC 1	WATER CLOSET	4"	2"	1/2"			4	2	WHITE VITREOUS CHINA FLOOR MOUNTED FLUSHOMETER TANK (PRESSURE ASSISTED) TYPE, ELONGATED BOWL, ADA COMPLIANT, 1.6 GPF, WITH OPEN FRONT SEAT LESS COVER, OLSENITE #95 OR EQUIVALENT. FLUSHOMETER TANK: SLOAN FLUSHMATE OR EQUAL. PROVIDE TANK COVER LOCKS. FLUSH VALVES SHALL BE RIGHT HAND OR LEFT HAND AS REQUIRED TO CORRESPOND WITH ACCESS FROM WIDE SIDE OF STALL. VERIFY FLUSH SIDE REQUIREMENTS	AM. STD. "CADET" / MODEL: 3109.016/4098.800 KOHLER "HIGHLINE" / MODEL: K-3544-T CRANE "ECONMISER" / MODEL: 3H839
WCO 1	WALL CLEANOUT								CAST IRON CLEANOUT TEE WITH INLET/OUTLET SPIGOT AND THREADED BRASS PLUG, WITH STAINLESS STEEL ACCESS COVER.	JOSAM / MODEL: 58510 WADE / MODEL: 8560E ZURN / MODEL: Z-1446-BP
WH 1/2	WATER HEATER			1-1/4"	1-1/4"				DIRECT FIRED WATER HEATER, 98.5% THERMAL EFF., 199,000 BTUH INPUT, 0.26-9.8 GPM @ 120 DEG., 3 OR 4" PVC FLUE & AIR INTAKE, ASME RTD TEMP. & PRESS. REL. VALVE, ELECTRONIC IGNITION SYSTEM , ELECTRONIC CONTROLS AND INTEGRAL DIAGNOSTICS.	RINNAI MODEL: REU-KB3237FFUD-US

PLUMBING SCHEDULE

A

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STATE OF OHIO
JOSH A. STALEY
63365
REGISTERED PROFESSIONAL ENGINEER

CONTRACT DATE: 03-19-2018
BUILDING TYPE: FLAGSHIP
PLAN VERSION:
SITE NUMBER:
ENTITY NUMBER:
STORE NUMBER:

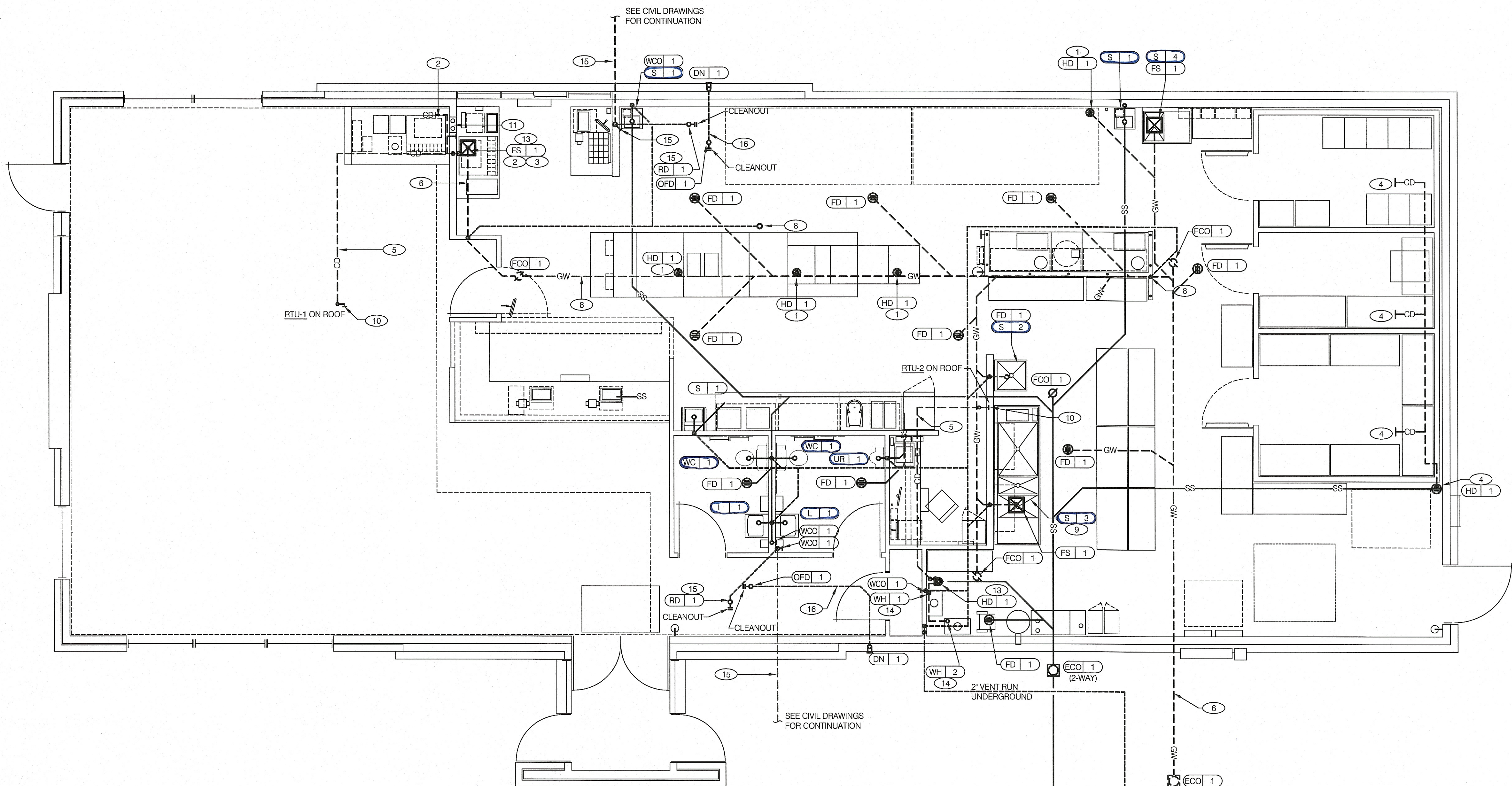
KFC
1207 LINCOLN WAY EAST
MASSILLON, OHIO

FLAGSHIP
PROTOTYPE

PLUMBING
SCHEDULES
AND NOTES

P1.0

PLOT DATE: 05.31.2016



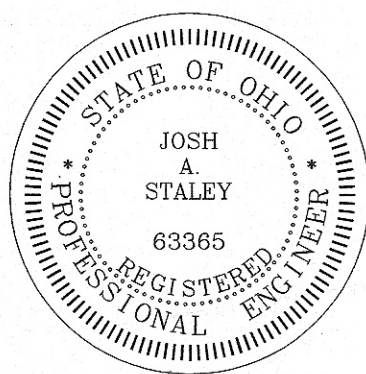
- | | |
|--|---|
| 1 NOT USED | 11 RUN DRAIN LINE FROM S/S DRINK MACHINE THRU WALL OPENING TO OUTFALL AT FLOOR SINK BENEATH D/T DRINK MACHINE. |
| 2 PROVIDE CONDENSATE LINE AND DRAIN LINE FROM ICE MACHINE TO FLOOR SINK. PROVIDE AIR GAP PER LOCAL CODE. | 12 NOT USED. |
| 3 PROVIDE WASTE LINES FROM BEVERAGE UNIT TO FLOOR SINK. PROVIDE AIR GAP PER LOCAL CODE. | 13 1-1/2" CONDENSATE DRAIN PIPE DOWN TO MOP SINK/HUB DRAIN. PROVIDE AIR GAP AS REQUIRED BY CODE. IF REQUIRED RUN CONDENSATE PIPING TO EXTERIOR DRYWELL, RETENTION AREA OR STORM SEWER AS DIRECTED BY THE AUTHORITY HAVING JURISDICTION. |
| 4 PROVIDE 3/4" PVC OR COPPER CONDENSATE FROM DRAIN PROVIDED BY VENDOR TO RUN INSIDE WALL AND OUTFALL TO HUB DRAIN (HEAT ROPE IS SUPPLIED WITH FREEZER CONDENSATE). EXPOSED PORTION OF CONDENSATE SHALL BE COPPER. | 14 WATER HEATER CONDENSATE. SEE DETAIL 2 / P5.0. |
| 5 PVC OR COPPER CONDENSATE DRAIN FROM HVAC UNITS ON ROOF. RUN ABOVE CEILING TO MOP SINK OR HUB DRAIN. PIPING SHALL SLOPE 1/4" PER FOOT AND SHALL BE INSULATED WITH 1" CLOSED CELLULAR INSULATION. REFER TO RISER DIAGRAM ON SHEET P5.0 FOR PIPE SIZES. | 15 STORM LINE FROM ROOF DRAIN. OVER TO AND DOWN INTERIOR WALL TO BELOW SLAB. COORDINATE SLEEVE (IF REQUIRED) THROUGH FOUNDATION WITH STRUCTURAL. COORDINATE WITH CIVIL FOR CONTINUATION TO STORM LINE. |
| 6 ENTIRE RUN OF DRAIN LINES TO INLET OF EXTERIOR GREASE INTERCEPTOR AND OUTLET OF INTERCEPTOR TO CONNECTION AT SANITARY MAIN SHALL BE SCHEDULE 40 PVC DWV OR AS REQUIRED BY THE AUTHORITY HAVING JURISDICTION. | 16 STORM LINE FROM OVERFLOW DRAIN, OVER TO AND DOWN EXTERIOR WALL, TO DOWNSPOUT NOZZLE. SEE SHEETS A4.0 and A4.1 FOR COORDINATION. |
| 7 FLOW CONTROL FITTING WITH VENT. RUN 2" VENT UNDERGROUND, INSIDE BUILDING FOOTPRINT, AND UP WALL. TIE INTO ROOF VENT, SEE KEYNOTE 8, THIS SHEET. | |
| 8 4" VENT UP THROUGH ROOF, COORDINATE W/ STRUCTURAL. | |
| 9 PIPE 3-COMPARTMENT SINK TO FLOOR SINK WITH AIR GAP PER CODE. | |
| 10 1-1/2" CONDENSATE DRAIN DOWN FROM RTU. SEE DETAIL 13 ON DRAWING P5.0. | |

KEY NOTES**B****WASTE & VENT PLAN** 1/4"=1'-0"**A**

- A. NO ROOF PENETRATIONS PERMITTED WITHIN ROOF WATER PLY. REFER TO ROOF PLAN FOR LOCATIONS.
- B. REFER TO RISER DIAGRAM ON SHEET P4.0 FOR ALL WASTE AND VENT SIZES.
- C. STORM WATER PIPING IS SIZED FOR A RAINFALL OF 4" PER HOUR. ADJUST ROOF DRAIN (RD-1) / OVERFLOW DRAIN (OFD-1) SIZE, AND STORM PIPE SIZE, PER THE LOCAL RAINFALL REQUIREMENTS AND BY THE AUTHORITY HAVING JURISDICTION. SEE KEYNOTES 15 AND 16, THIS SHEET.
- D. INSULATE ALL HORIZONTAL RUNS OF STORM DRAINAGE PIPING ABOVE THE CEILING OR EXPOSED WITH 1" CLOSED CELLULAR INSULATION WITH VAPOR BARRIER JACKET THAT CAN BE PAINTED.
- E. COORDINATE LOCATION OF STORM WATER PIPING ABOVE CEILING WITH ALL TRADES PRIOR TO INSTALLATION.

WASTE & VENT PLAN NOTES**B**

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**PLAN SET REVISIONS:**

△	

CONTRACT DATE: 03-19-2018

BUILDING TYPE: FLAGSHIP

PLAN VERSION:

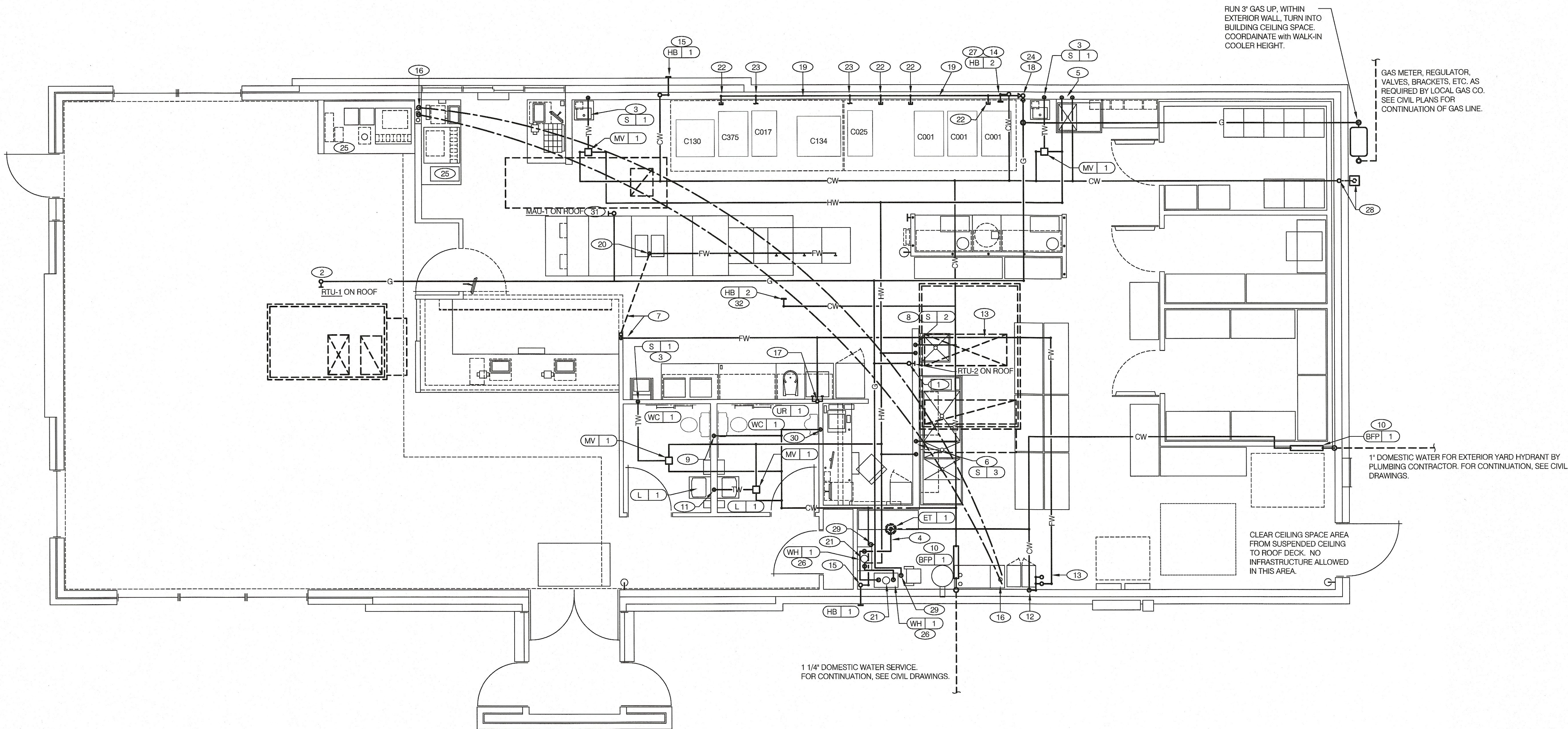
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ENTITY NUMBER:

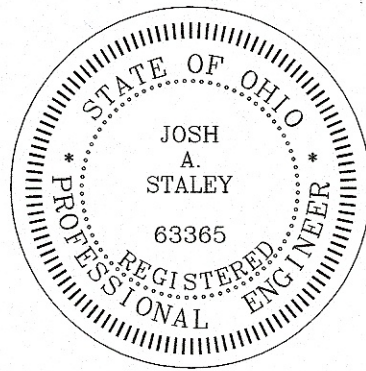
STORE NUMBER:

KFC1207 LINCOLN WAY EAST
MASSILLON, OHIO**FLAGSHIP
PROTOTYPE****WASTE AND
VENT PLAN****P2.0**

PLOT DATE: 05.31.2016



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PLAN SET REVISIONS:

△	

CONTRACT DATE: 03-19-2018

BUILDING TYPE: FLAGSHIP

PLAN VERSION:

SITE NUMBER:

ENTITY NUMBER:

STORE NUMBER:

KFC

1207 LINCOLN WAY EAST
MASSILLON, OHIO



FLAGSHIP
PROTOTYPE

WATER AND
GAS PLAN

P3.0

PLOT DATE: 05.31.2016

WATER & GAS PLAN 1/4"=1'-0" A

- A. WATER DISTRIBUTION PIPING IS SHOWN ABOVE FINISH CEILING. UNDER SLAB DISTRIBUTION ALLOWED AT CONTRACTOR OPTION. COORDINATE ALL DETAILS.
- B. NO ROOF PENETRATIONS PERMITTED WITHIN THE ROOF "WATER VALLEYS". REFER TO ROOF PLAN FOR LOCATIONS.
- C. REFER TO SHEET P4.0 FOR WATER AND GAS ISOMETRIC DRAWINGS.

- 1 1-1/2" GAS PIPE UP TO RTU-2 WITH DIRT LEG, GAS COCK, AND UNION.
- 2 1" GAS PIPE UP TO RTU-1 WITH DIRT LEG, GAS COCK AND UNION.
- 3 1/2" TEMPERED WATER LINE DOWN IN WALL TO HAND SINK. INSTALL MIXING VALVE BELOW SINK WHEN POSSIBLE.
- 4 1" HOT AND COLD WATER LINES TO WATER HEATER.
- 5 1/2" HOT AND COLD WATER LINES IN DOWN WALL TO PREP SINK.
- 6 1/2" HOT AND COLD WATER LINES DOWN IN WALL TO THREE COMPARTMENT SINK.
- 7 1/2" FILTERED WATER LINE DOWN IN WALL TO BELOW SLAB. DO NOT INSTALL ANY JOINTS BELOW SLAB.
- 8 3/4" HOT AND COLD WATER LINES WITH STOP/CHECK VALVES LOCATED ABOVE CEILING DOWN IN WALL TO THE MOP SINK.
- 9 1/2" COLD WATER LINE DOWN IN WALL TO WATER CLOSET FLUSHMETER TANK.
- 10 REDUCED PRESSURE BACKFLOW PREVENTER LOCATED ABOVE THE CEILING IF ALLOWED BY LOCAL UTILITY. PROVIDE SHUT-OFF VALVES AT BOTH SIDES OF BACKFLOW PREVENTER. PIPE RELIEF TO HUB DRAIN. VERIFY LOCATIONS WITH CIVIL DWGS. VERIFY WATER SERVICE REQUIREMENTS WITH CITY.
- 11 1/2" TEMPERED WATER LINE DOWN IN WALL TO LAVATORY. INSTALL MIXING VALVE BELOW SINK WHEN POSSIBLE. SEE KEYNOTES 13 AND 16, THIS SHEET.
- 12 3/4" COLD WATER LINE DOWN IN WALL TO WATER FILTERS <S-287> AND <S-288>. SEE KEYNOTES 13 AND 16, THIS SHEET.
- 13 1/2" FILTERED WATER LINE FROM WATER FILTER <S-288> TO HOT HOLDING CABINETS <S-015> / <S-017> AND HOT WATER MACHINES <P-721>. SEE DRAWINGS A2.0, P4.0, AND P5.0. SEE KEYNOTES 7 AND 17, THIS SHEET.
- 14 1/2" COLD WATER LINE DOWN IN WALL TO INTERIOR HOSE BIBB. SEE KEYNOTE 27, THIS SHEET.
- 15 1/2" COLD WATER LINE DOWN IN WALL TO EXTERIOR HOSE BIBB.

- 16 BUNDLED SYRUP LINES FROM FILTER <S-287> TO BEVERAGE DISPENSERS <S-532> AND FILTERED WATER LINES TO ICE CUBERS <S-512>. SEE DRAWINGS A2.0, A7.1, P4.0 AND P5.0.
- 17 1/2" FILTERED WATER DOWN IN WALL TO BUNN HOT WATER MACHINES <P-721> (Qty. 2). BRANCH-OFF FOR EACH DISPENSER. STUB OUT OF WALL @ 6'-0" A.F.F. PROVIDE MANUAL CUT-OFF VALVE FOR EACH DISPENSER. SEE ELEVATION 7 / A8.2 FOR REFERENCE.
- 18 2-1/2" WALL-MOUNTED GAS PIPE DOWN WALL TO COOKING EQUIPMENT. COORDINATE LOCATION w/ WALK-IN COOLER BOX.
- 19 2" GAS MANIFOLD ALONG WALL TO COOKING EQUIPMENT. MOUNTING HEIGHT @ 12" A.F.F.
- 20 1/2" FILTER WATER STUB-UP FROM BELOW SLAB TO 1" A.F.F. FOR CONNECTION TO HEATED CABINETS <S-015> (Qty. 2) AND <S-017> (Qty. 2). SEE KEYNOTE 7, THIS SHEET.
- 21 3" PVC EXHAUST AND INTAKE FLUES FROM WATER HEATER. PIPE INTAKE THRU ROOF AND EXHAUST THRU REAR WALL AS RECOMMENDED BY MANUFACTURER. SEE SHEET M2.0 AND DETAIL 2/P5.0.
- 22 1" GAS CONNECTION FOR FUTURE EQUIPMENT. VERIFY WITH OWNER.
- 23 1" GAS CONNECTION TO FRYER. PROVIDE FLEXIBLE HOSE KIT AS INDICATED ON ARCHITECTURAL DRAWING A2.1.
- 24 EMERGENCY GAS SHUT-OFF VALVE LOCATED BELOW CEILING.
- 25 OPTIONAL COFFEE AND TEA MAKERS: VERIFY WITH OWNER IF REQUIRED. PROVIDE 1/2" FILTER WATER TO EACH IF REQUIRED.
- 26 WATER HEATER (WH-1). PIPE CONDENSATE LINE, T&P DISCHARGE AND DRAIN PAN TO FLOOR SINK. SEE WATER HEATER DETAIL 2 / P5.0.
- 27 PROVIDE 3/4" HOSE BIB CONNECTION. ROUGH-IN @ 24" A.F.F.
- 28 1" COLD WATER LINE DOWN IN WALL TO EXTERIOR IRRIGATION VALVE BOX. COORDINATE WITH IRRIGATION TIMER (IR-01) LOCATED IN MANAGER'S OFFICE. SEE SHEET E3.1, E5.0.
- 29 1-1/2" GAS PIPE DOWN TO WATER HEATER.
- 30 3/4" COLD WATER LINE DOWN IN WALL TO URINAL FLUSH VALVE.
- 31 2" GAS PIPE UP TO MAU-1 WITH DIRT LEG, GAS COCK, AND UNION.
- 32 3/4" COLD WATER WITH SHUTOFF VALVE BELOW ROOF LINE UP THROUGH ROOF CURB TO HOSE BIB ON ROOF.

NOT USED

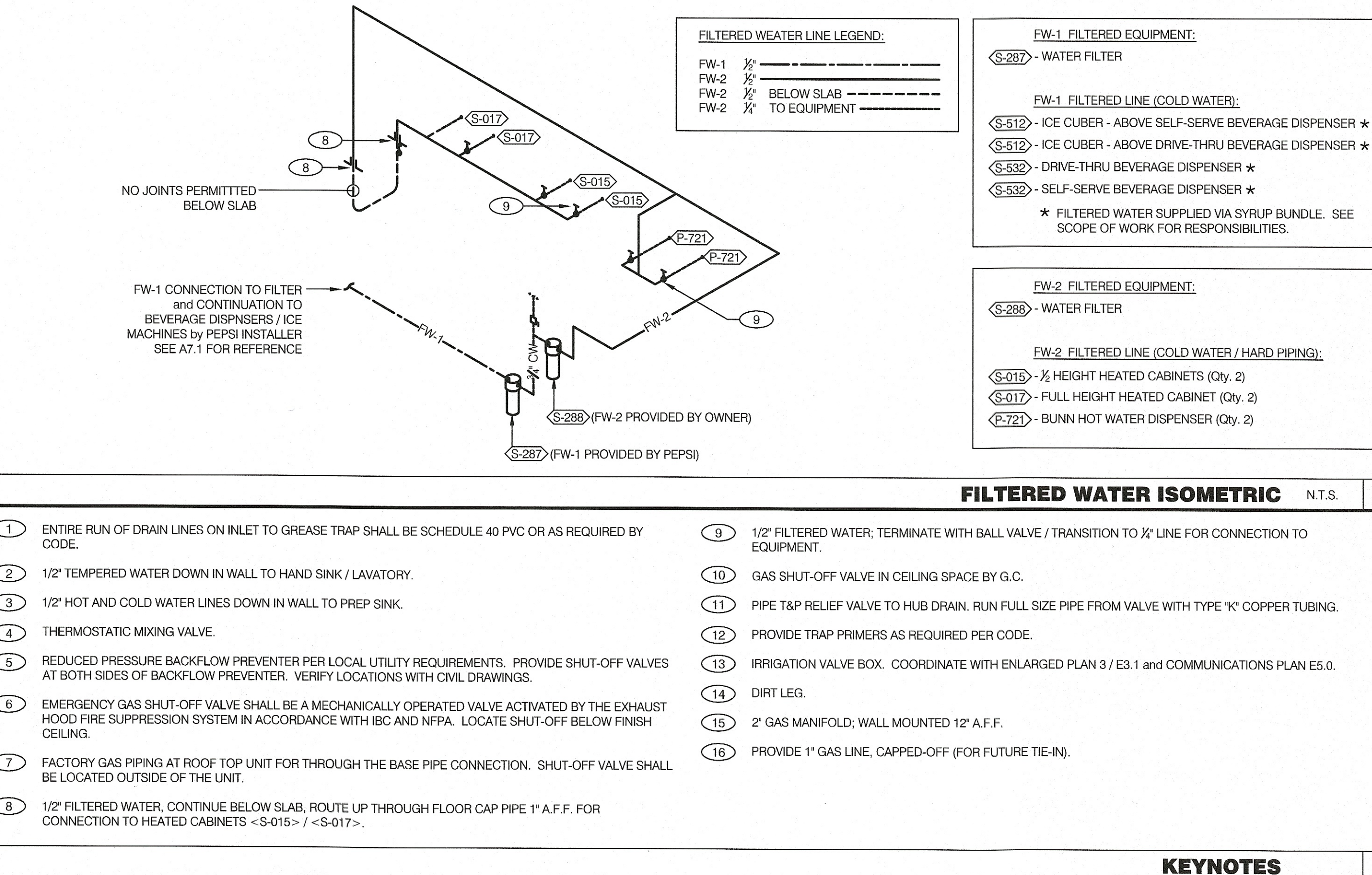
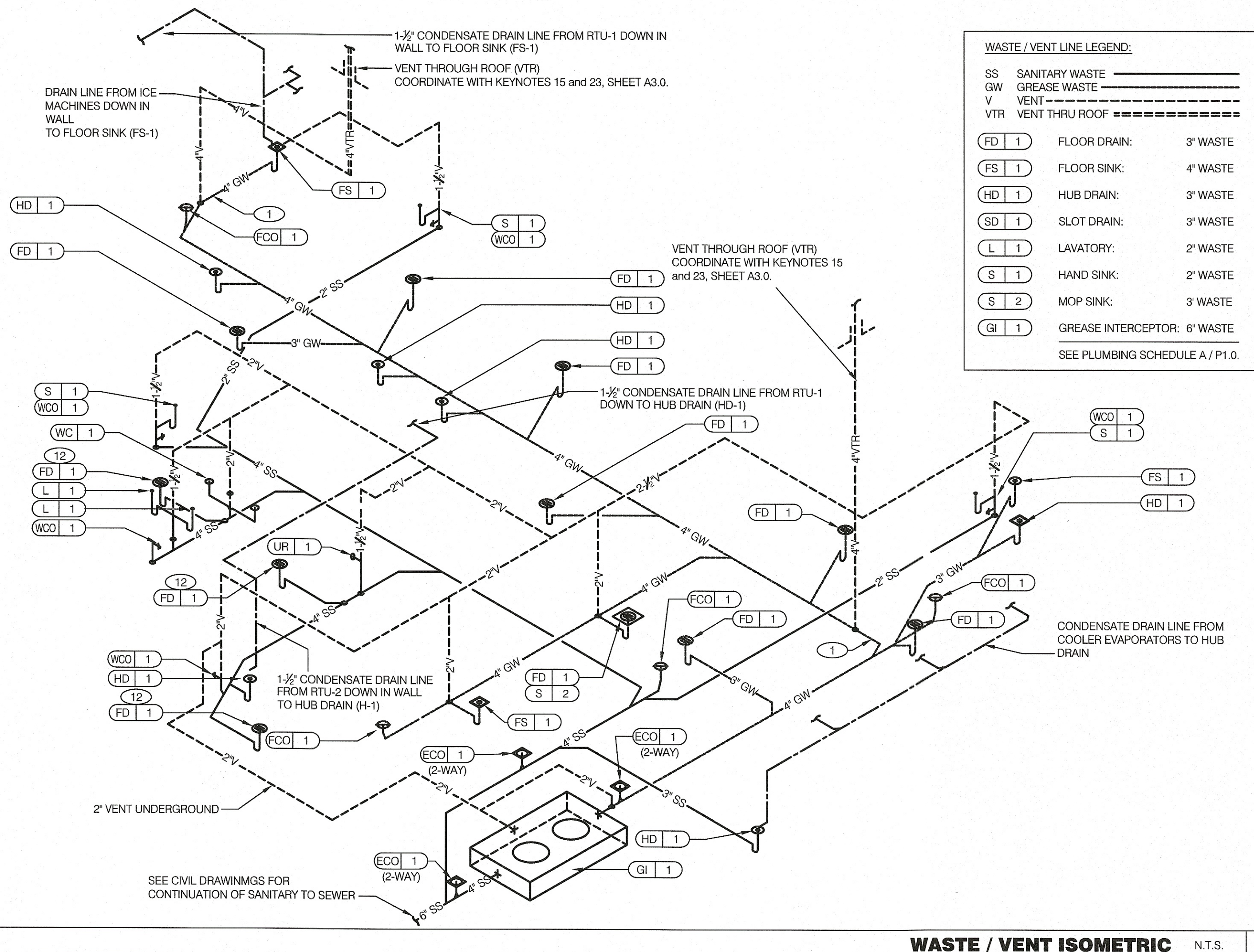
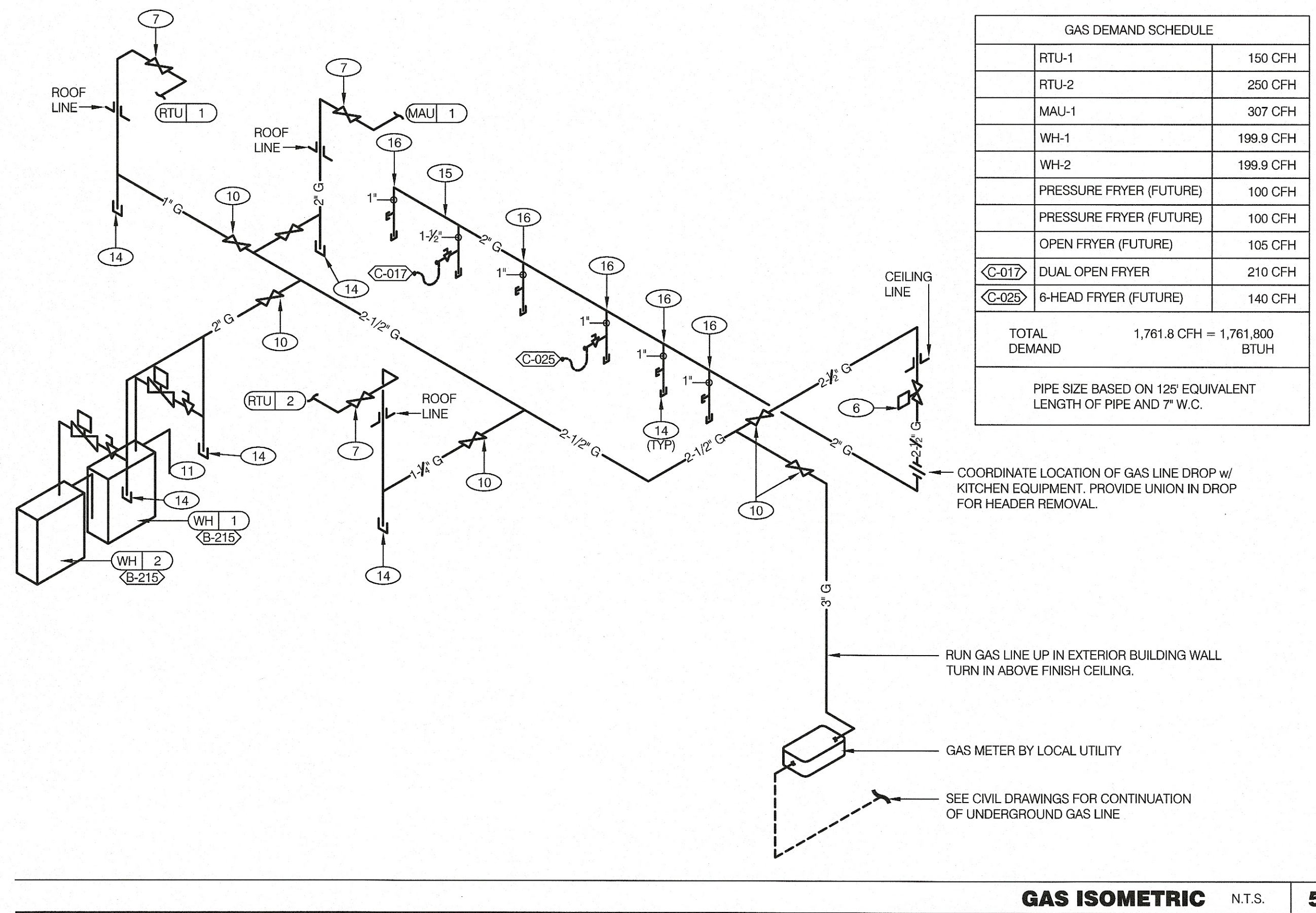
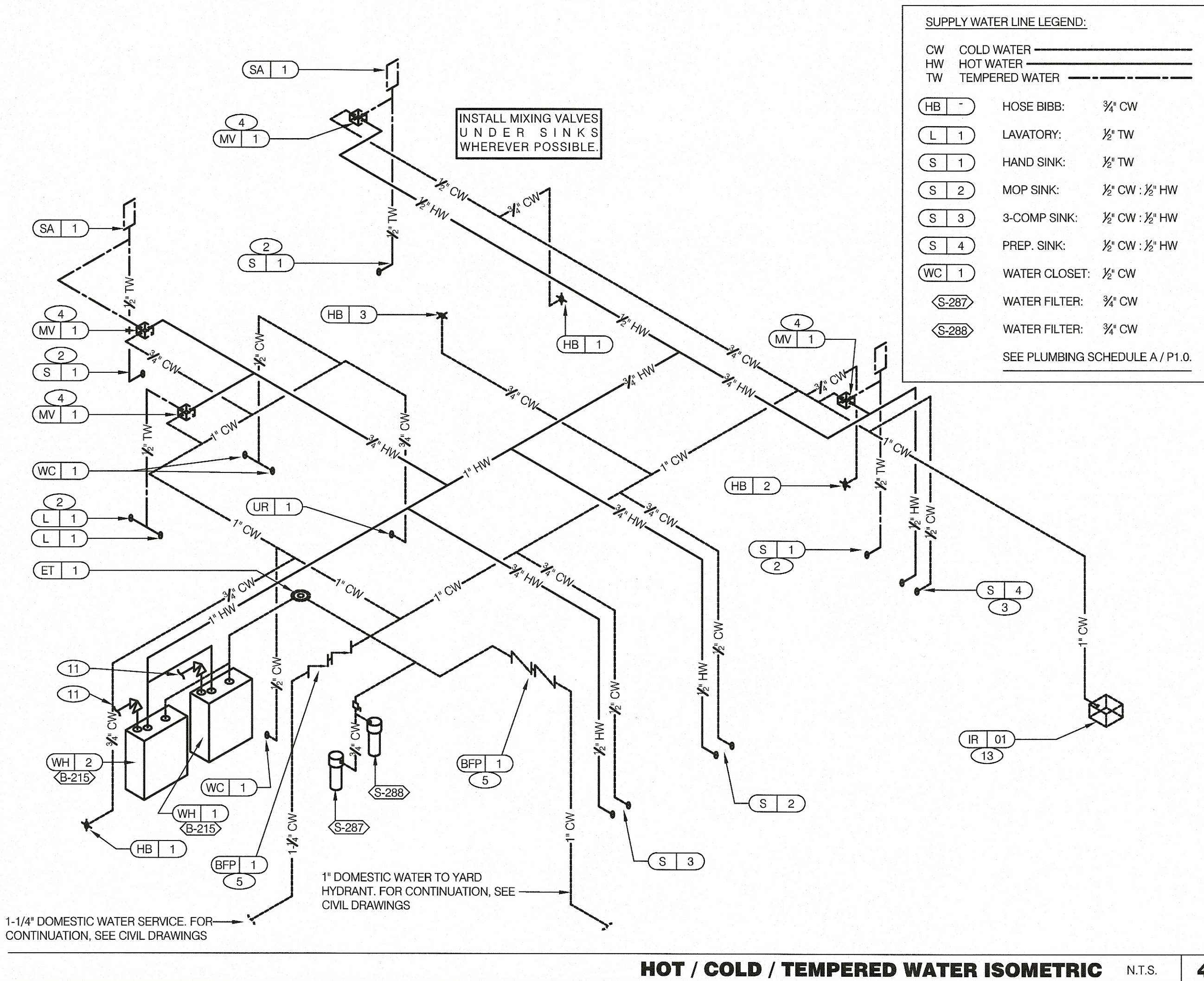
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WATER & GAS PLAN NOTES

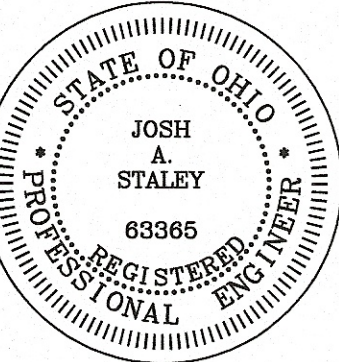
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KEY NOTES

B



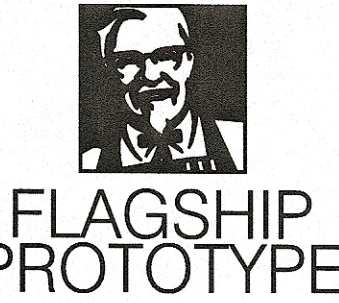
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PLAN SET REVISIONS:

CONTRACT DATE: 03-19-2018
BUILDING TYPE: FLAGSHIP
PLAN VERSION:
SITE NUMBER:
ENTITY NUMBER:
STORE NUMBER:

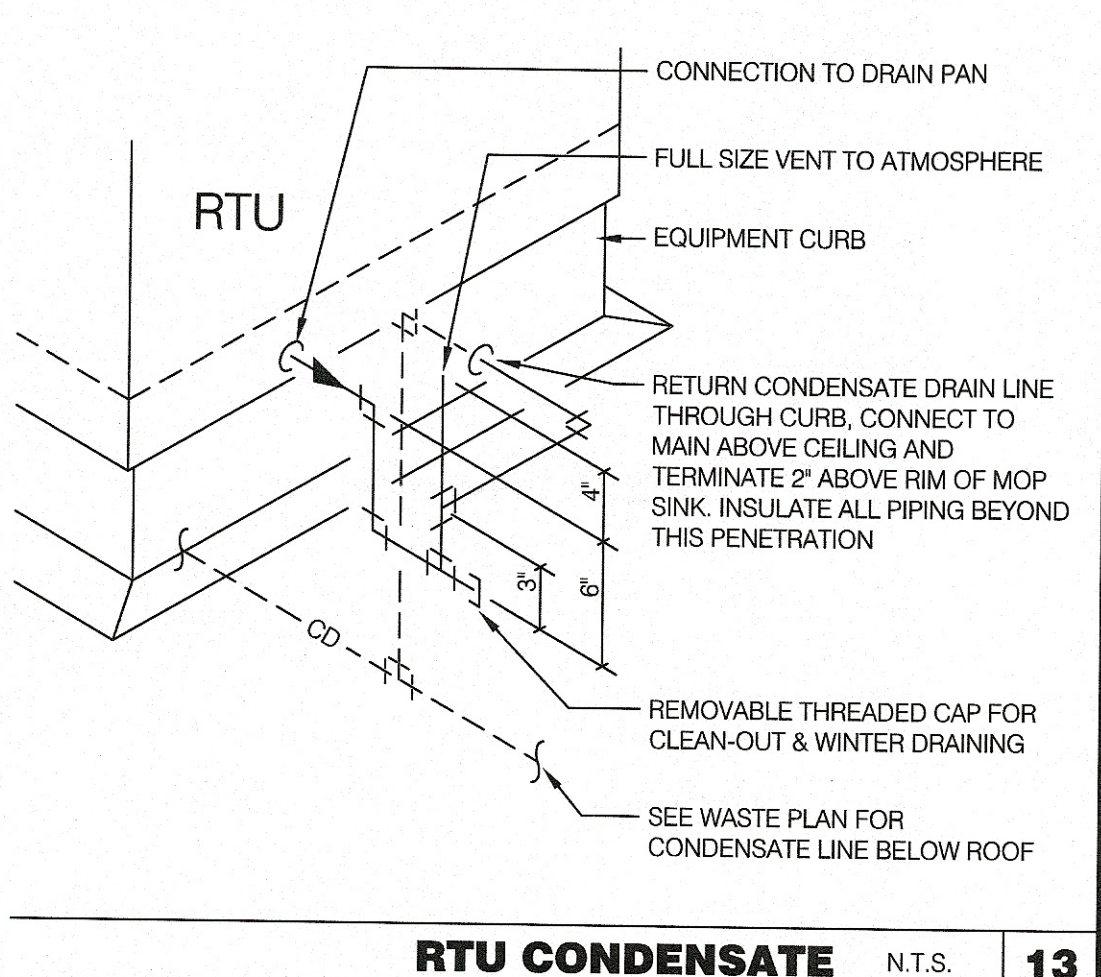
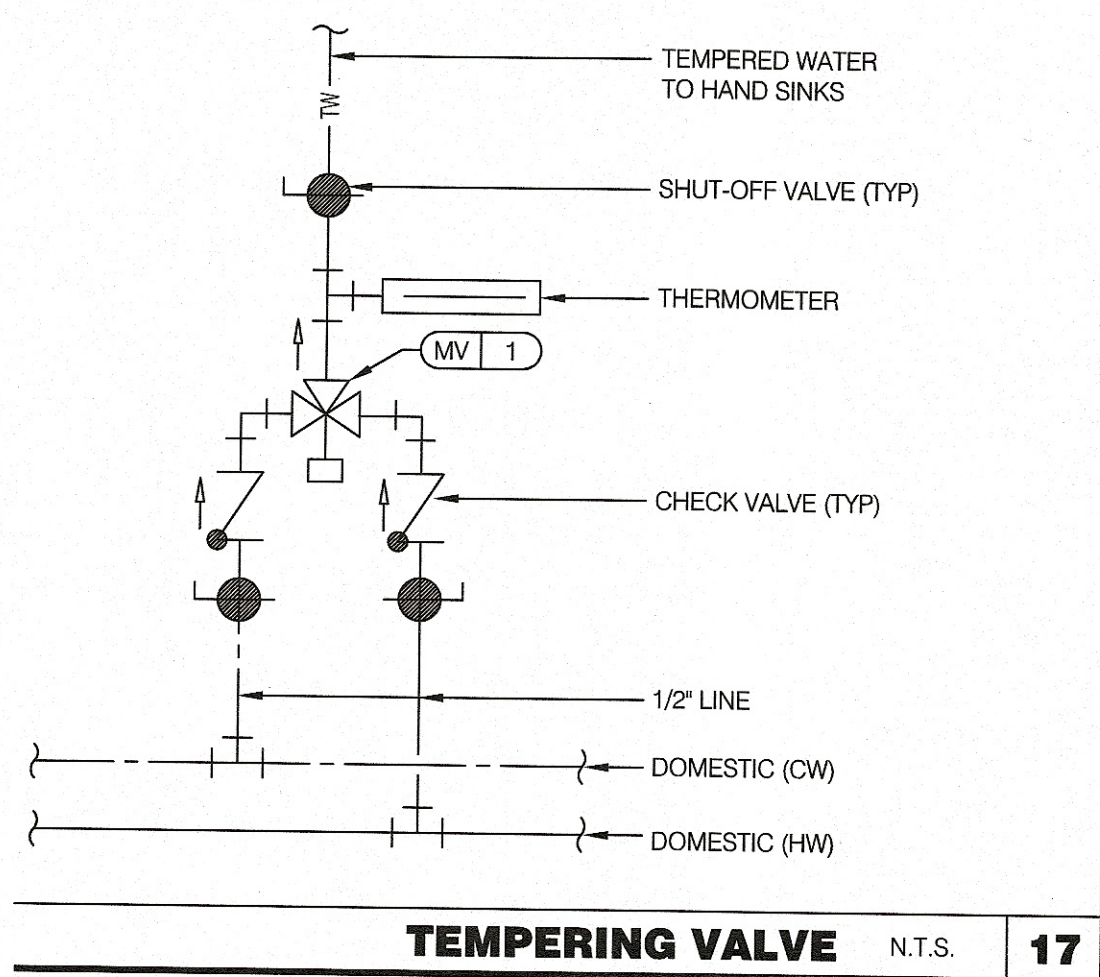
KFC
1207 LINCOLN WAY EAST
MASSILLON, OHIO



**RISER
DIAGRAMS**

P4.0

PLOT DATE: 05.31.2016



QTY	MODEL #	DESCRIPTION
2	E76000740	RINNAI DIRECT FIRED TANKLESS COMMERCIAL WATER HEATER
1	MFK7	MANIFOLD AND CORNER RACK KIT FOR TWO UNITS
1	DET12	EXPANSION TANK
1	HAL	ALARM LIGHT W/ INSTALLATION INSTRUCTIONS

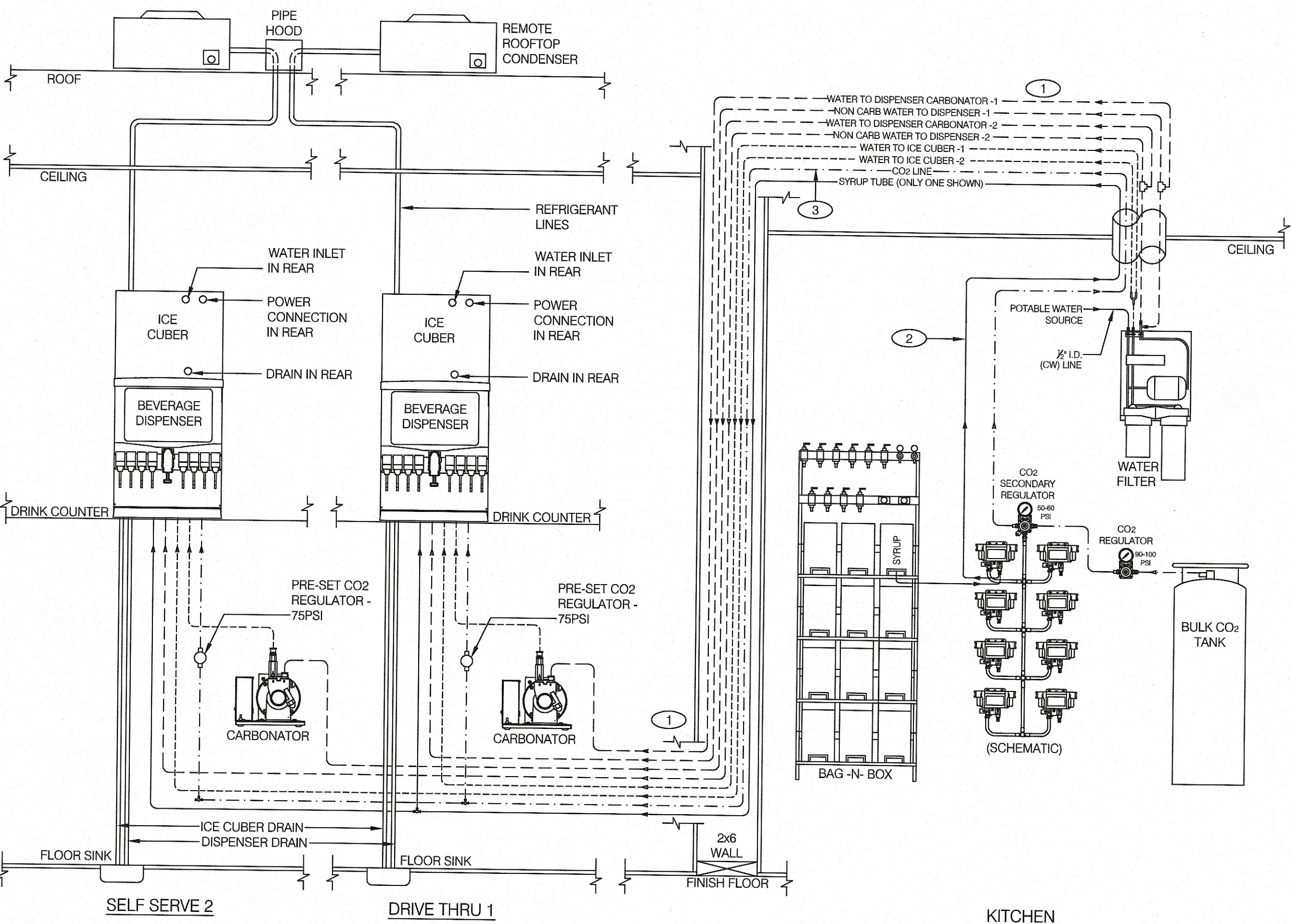
WATER HEATER SCHEDULE N.T.S. 9

- GENERAL NOTES:
- SEE SCOPE OF WORK FOR SCOPE DEFINITIONS.
 - ROUGH-INS SHALL BE PROVIDED BY THE CONTRACTOR.
 - INSTALLATION MUST COMPLY WITH ANY STATE OR LOCAL PLUMBING CODES.
 - THE FILTER MUST BE PROTECTED AGAINST FREEZING.
 - USE ONLY TEFLON (HIGH-LOW TEMPERATURE) TAPE TO SEAL THREADED PARTS; NO PIPE DOPE.
 - DO NOT INSTALL WHERE LINE PRESSURE EXCEEDS 125 PSI OR WHERE TEMPERATURE EXCEEDS 100 F.
 - SEE THE EQUIPMENT PLAN FOR LOCATION. SEE 12/ P6.0 FOR BUNDLE DETAILS.
 - "Y" FOR ICE MACHINES SUPPLY LINES SHALL BE INSTALLED @ FILTER OUTLET.
 - BACKFLOW PREVENTERS FOR FILTER ASSEMBLY ARE PROVIDED.
 - INSTALL ELECTRICAL, WATER, AND DRAIN IN ACCORDANCE WITH ALL LOCAL, STATE & FEDERAL CODES.
 - EQUIPMENT RATING:
ED250 DISPENSER - 115V, 3.5 AMPS
CARBONATOR - 115V, 60 Hz, 7.0 AMPS

- KEY NOTES:
- SYRUP LINES, WATER LINES FOR THE CARBONATOR PUMPS, ICE CUBER WATER LINES, CO2 LINE FOR PNEUMATIC GATE AND PLAIN WATER FOR THE DISPENSERS ARE RUN INSIDE THE TUBING BUNDLE (BY PEPSI). COORDINATE WITH KEYNOTES 10, 11 / A1.0.
 - ONLY ONE SYRUP LINE SHOWN (FOR CLARITY).
 - 1/4" CO2 LINE TO PNEUMATIC GATE REGULATOR (LOCATED BEHIND DISPENSER FRONT PANEL). PRESSURE PRESET TO 30-35 MAX PSI.

- LEGEND:
- WATER TO DISPENSERS / CARBONATORS
 - WATER TO ICE MACHINES
 - CO2 LINE
 - SYRUP LINE

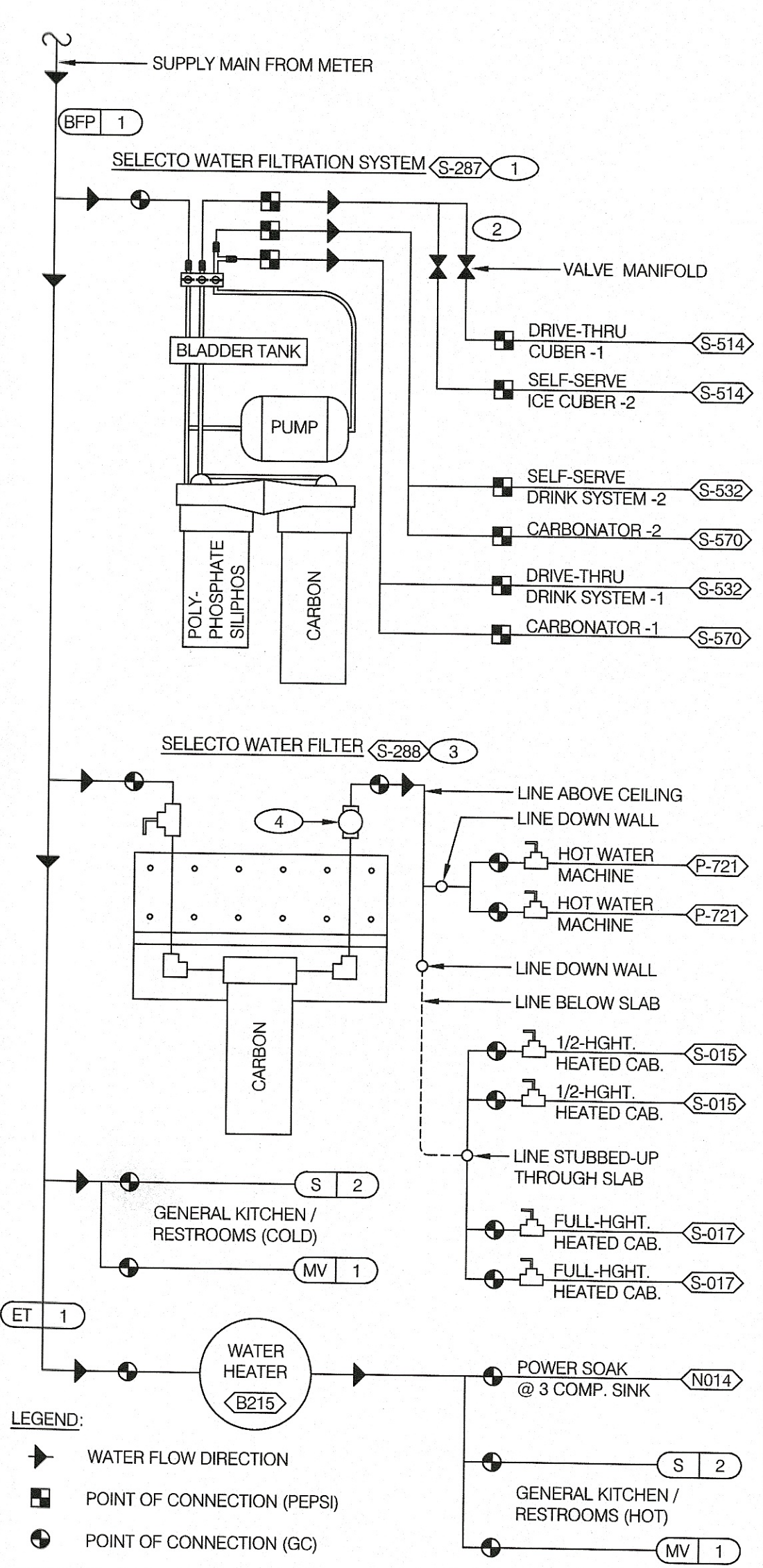
DRINK SYSTEM SCHEMATIC N.T.S. 11



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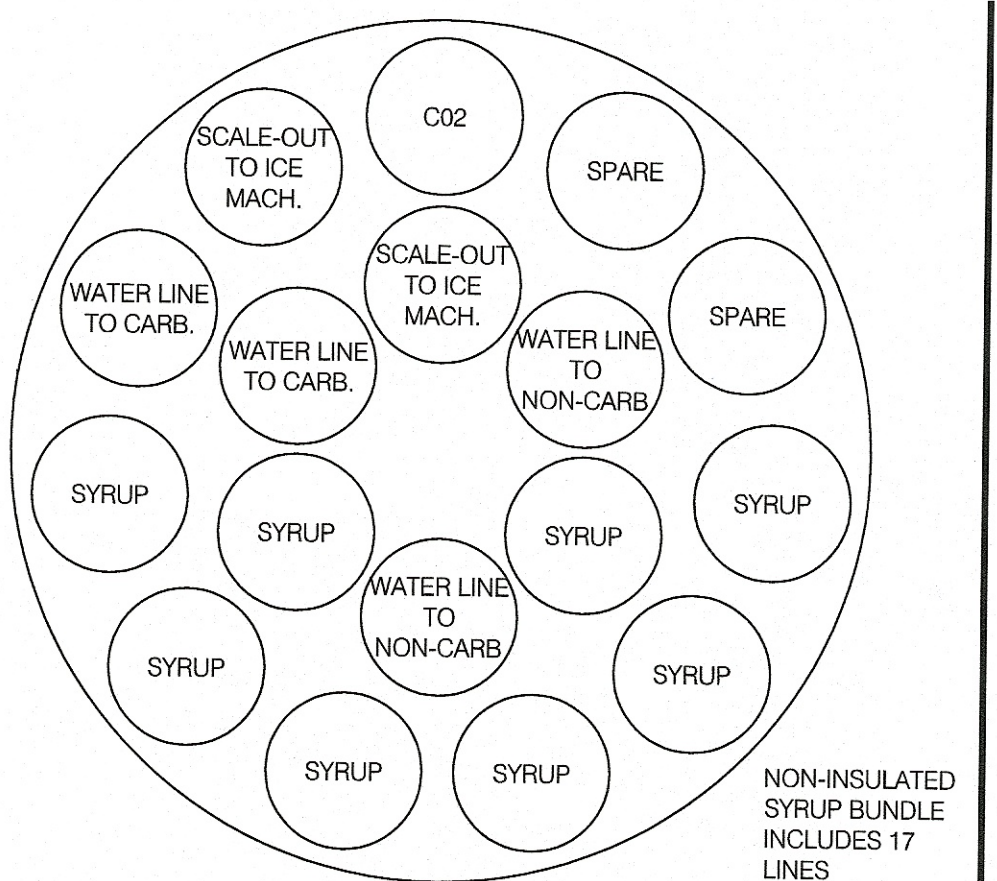
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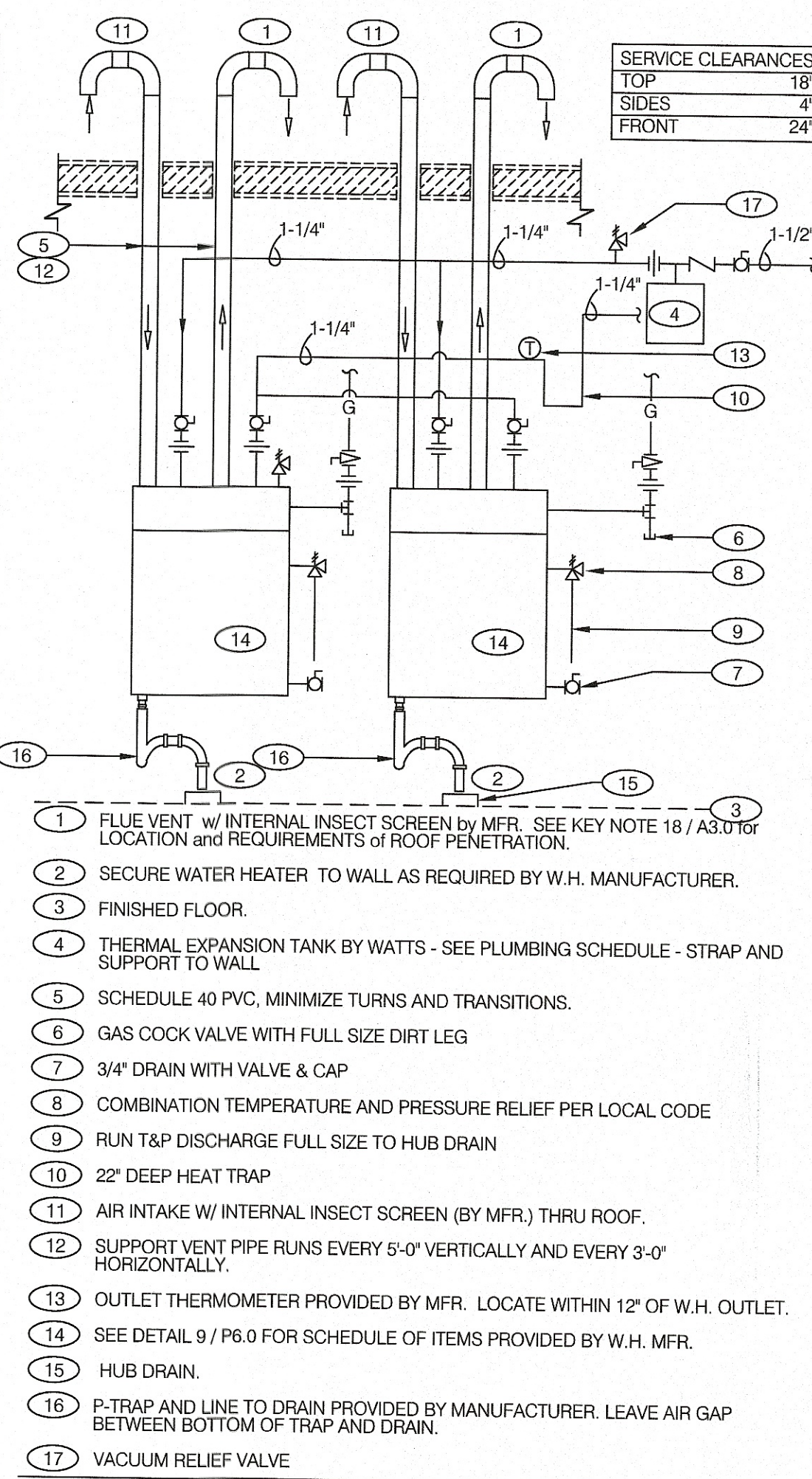
- LEGEND:
- ➔ WATER FLOW DIRECTION
 - POINT OF CONNECTION (PEPSI)
 - POINT OF CONNECTION (GC)
- KEY NOTES:
- FILTER SYSTEM SUPPLIED / INSTALLED BY PEPSI. GC TO PROVIDE CONNECTION OF COLD WATER LINE TO FILTER; PEPSI TO PROVIDE CONNECTION TO ASSOCIATED EQUIPMENT. SEE DETAIL 11, THIS SHEET. REFER TO SHEET P3.0.
 - ALL LINES SUPPLIED IN PEPSI SYRUP BUNDLE; SEE DETAIL 8, THIS SHEET.
 - FILTER SUPPLIED BY OWNER / INSTALLED BY GC. REFER TO SHEET P3.0.
 - 3/4" OUTLET W/ INTEGRAL BACKFLOW PREVENTER, EQUAL TO WATTS REGULATOR CO. SERIES 007 AND SERVICE BALL VALVE.

- GENERAL NOTES:
- SEE SCOPE OF WORK FOR ADDITIONAL INFORMATION.
 - INSTALLATION MUST COMPLY WITH STATE OR LOCAL PLUMBING CODES.
 - THE UNIT MUST BE PROTECTED AGAINST FREEZING.
 - USE ONLY TEFLON (HIGH-LOW TEMPERATURE) TAPE TO SEAL THREADED PARTS; NO PIPE DOPE.
 - DO NOT INSTALL WHERE LINE PRESSURE EXCEEDS 125 PSI OR WHERE TEMPERATURE EXCEEDS 100 F.

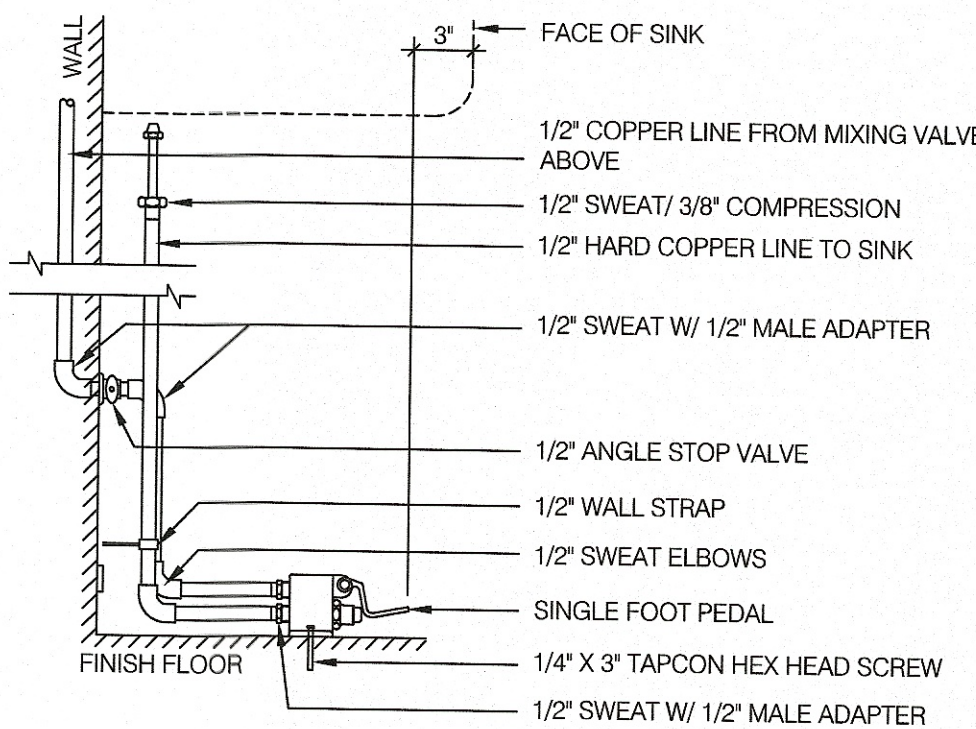
WATER FILTER SYSTEMS SCHEMATIC N.T.S. 7



SYRUP BUNDLE CONFIGURATION N.T.S. 8

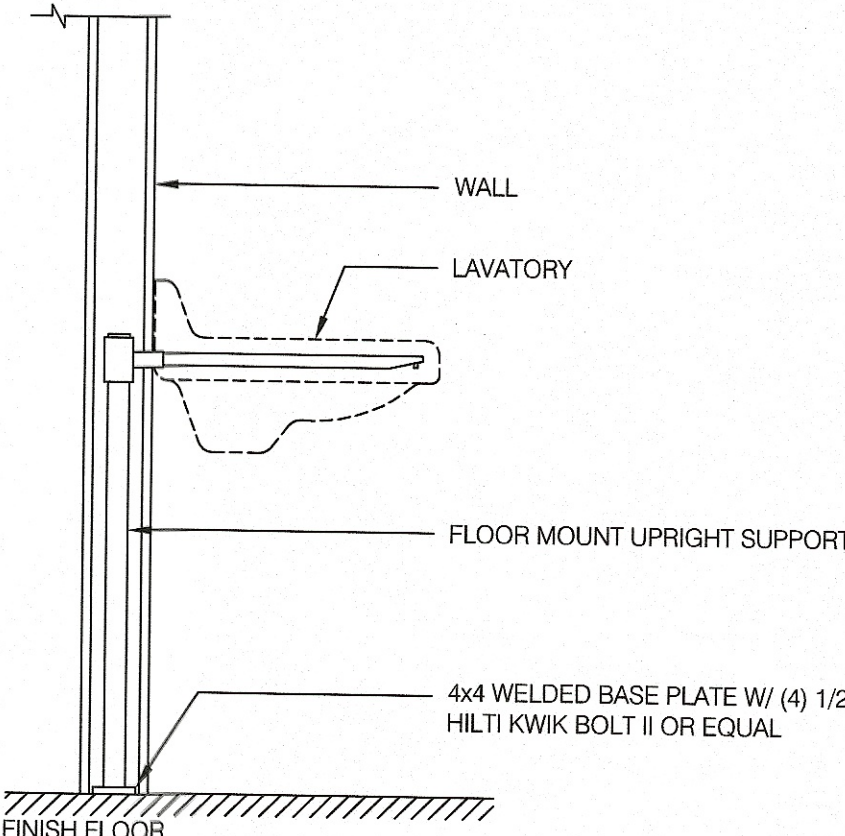


WATER HEATER SCHEMATIC N.T.S. 2



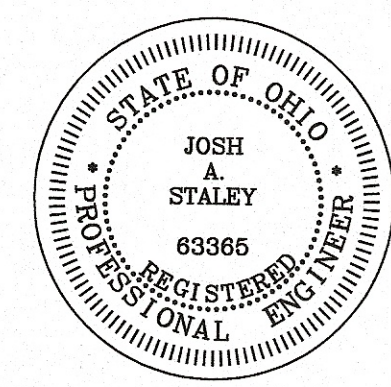
NOTE:
1/2" PIPING SHALL BE HARD COPPER LINE, OR BRAIDED STAINLESS HOSE. SOFT COPPER IS NOT ACCEPTABLE.

FOOT PEDAL N.T.S. 3



LAVATORY SUPPORT N.T.S. 4

THESE DOCUMENTS ARE PROVIDED AS A CONSTRUCTION DOCUMENT TEMPLATE FOR THIS BUILDING TYPE. THESE DRAWINGS MUST BE REVIEWED AND ADAPTED BY A LICENSED ARCHITECT AND/OR ENGINEER TO COMPLY WITH THE REQUIREMENTS OF ALL FEDERAL, STATE AND LOCAL AUTHORITIES FOR SITE-SPECIFIC PROJECTS. ALL PROJECTS MUST BE APPROVED BY KFC BRAND ARCHITECT PRIOR TO CONSTRUCTION.



PLAN SET REVISIONS:

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CONTRACT DATE: 03-19-2018

BUILDING TYPE: FLAGSHIP

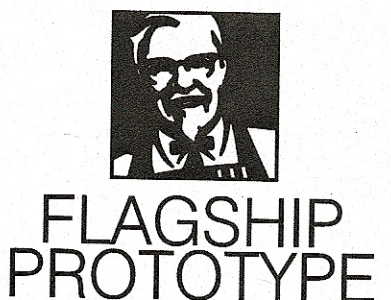
PLAN VERSION:

SITE NUMBER:

ENTITY NUMBER:

STORE NUMBER:

KFC
1207 LINCOLN WAY EAST
MASSILLON, OHIO



PLUMBING
DETAILS

P5.0

PLAT DATE: 05.31.2016

GENERAL:







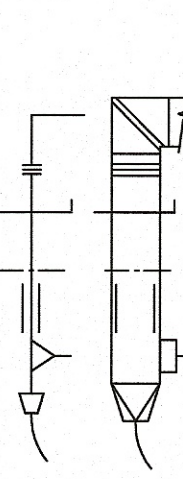
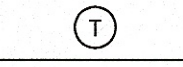
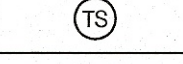
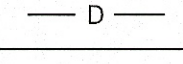
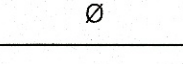
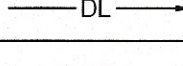
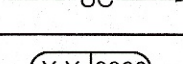
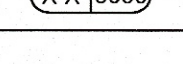
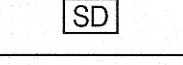
1. LOCATE, CUT AND FRAME ROOF OPENINGS AS SHOWN FOR ALL HVAC EQUIPMENT AND EXHAUST FANS.
2. IT IS VERY IMPORTANT THAT ACCURATE MEASUREMENTS ARE USED WHEN LOCATING EXHAUST FAN ROOF OPENINGS TO ENSURE THAT NO ADDITIONAL OFFSETS ARE REQUIRED IN THE EXHAUST DUCTWORK. COORDINATE ROOF OPENINGS WITH THE KITCHEN EQUIPMENT.
3. PROVIDE ANY FRAMING REQUIRED FOR DIFFUSER INSTALLATION IN HARD CEILING.

HVAC:

1. INSTALLATION SHALL CONFORM TO THE ENERGY CONSERVATION DESIGN MANUAL STANDARDS FOR NEW NONRESIDENTIAL BUILDINGS, IF REQUIRED.
2. ALL WORK AND MATERIALS SHALL COMPLY WITH GOVERNING CODES, SAFETY ORDERS AND REGULATIONS.
3. OBTAIN AND PAY FOR ALL NECESSARY PERMITS, FEES AND INSPECTIONS REQUIRED BY GOVERNING AUTHORITIES.
4. PROVIDE CONDUIT FOR LINE AND LOW VOLTAGE WIRING, LINE VOLTAGE WIRING SWITCHES, AND FINAL CONNECTIONS.
5. ANY EQUIPMENT THAT IS SUBSTITUTED SHALL FIT IN THE SPACE PROVIDED WITH ADEQUATE ROOM FOR SERVICING, INCLUDING SUBSTITUTE EQUIPMENT NAMED IN THE SPECIFICATIONS. SUBMIT A 1/4" SCALE DRAWING OF ALL EQUIPMENT SUBSTITUTED FOR APPROVAL PRIOR TO INSTALLATION, INCLUDING, BUT NOT LIMITED TO, STRUCTURAL AND ARCHITECTURAL IMPACT, CLEARANCE REQUIREMENTS AND UTILITY REQUIREMENTS.
6. FOR INSTALLATION OF RECHARGEABLE REFRIGERANT LINES FROM ICE MACHINE TO CONDENSER ON ROOF, SEE SCOPE OF WORK.
7. HVAC UNITS SHALL BE MOUNTED LEVEL ON ROOF CURBS.
8. ALL DUCTWORK SHALL BE EXTERNALLY INSULATED.
9. ALL SUPPLY / RETURN DUCTS SHALL BE RIGID, WITH THE EXCEPTION OF THE LAST 14'-0" (TYPE S-3, S-4, S-5) / 5'-0" (TYPE S-6), WHICH MAY BE FLEX.
10. SMOKE DETECTOR SHALL BE INSTALLED IN THE RETURN AIR DUCT AND SHALL DEACTIVATE ROOFTOP UNIT UPON SENSING SMOKE. SMOKE DETECTOR SHALL BE INSTALLED IN RETURN AIR DUCT, PRIOR TO ANY OUTSIDE AIR CONNECTIONS, ONLY WHERE REQUIRED BY CODE.
11. ALL HOOD EXHAUST DUCTS SHALL BE RIGID 16 GA MINIMUM, WELDED DUCT. GRIND ALL WELDS SMOOTH. PROVIDE FIRE MASTER DUCT WRAP FOR ALL HOOD EX-HAUST DUCTS. SEE 15/M4.0.
12. ALL BRANCH DUCTS FEEDING INDIVIDUAL DIFFUSERS SHALL HAVE DAMPERS AT TAKEOFFS FOR AIR BALANCING. PROVIDE ACCESS PANELS TO DAMPERS. SEE 8 / M4.0.
13. ALL UTILITY PIPING FOR RTU'S SHALL RUN UP THROUGH ROOF INSIDE EACH UNIT'S ROOF CURB.
14. ALL OUTSIDE AIR INTAKES SHALL BE A MINIMUM OF 10'-0" FROM EXHAUST FANS AND / OR VENTS.
15. SEE 8 / M1.0 AND SCOPE OF WORK FOR DESCRIPTION OF HVAC PACKAGE TO BE PURCHASED THROUGH YUM! BRANDS NATIONAL CONTRACT.
16. FINAL HVAC SYSTEM TESTING AND BALANCING SHALL BE PERFORMED BY INDEPENDENT AGENT CONTRACTED DIRECTLY BY THE OWNER. A RE-TEST IS MANDATORY FOR A FALSE START (I.E. NO POWER UPON AGENT'S ARRIVAL, EQUIPMENT NOT WIRED, ETC.) AND SHALL BE A COST INCURRED BY THE G.C. IN THE EVENT A SYSTEM / STORE RECEIVES A GRADE OF 5 OR BELOW AS A RESULT OF THE HVAC SYSTEM PERFORMANCE OR OPERATIONAL DEFICIENCIES, OWNER WILL REQUEST A RE-TEST AND THE COST FOR SAME SHALL BE ALSO INCURRED BY THE GENERAL CONTRACTOR.
17. THERMOSTATS SHALL BE PROVIDED HVAC CONTRACTOR; SEE SCOPE OF WORK.
18. REMOTE THERMOSTAT SENSORS SHALL BE PROVIDED BY HVAC CONTRACTOR SEE SCOPE WORK.

GENERAL NOTES

10

SYMBOL & ABBREV.	DESCRIPTION	
	SA/SUP	SUPPLY AIR (RISE/DROP)
	RA/RET	RETURN AIR DUCT (RISE/DROP)
	EA/EXH	EXHAUST AIR DUCT (RISE/DROP)
	CD/SR	CEILING DIFFUSER/SUPPLY REGISTER (ARROWHEAD REPRESENTS NUMBER OF THROW)
	RR/RG	RETURN REGISTER/GRILLE
	ER/EG	EXHAUST REGISTER/GRILLE
		RECTANGULAR DUCT ELBOW WITH TURNING VANES
	FC	FLEXIBLE CONNECTION
	MVD	MANUAL VOLUME DAMPER
	FD	FIRE DAMPER
	(L)	DUCT LINING (1" THICK UNLESS OTHERWISE NOTED)
		SINGLE LINE DUCT BRANCH TAKEOFF
		DUCT TRANSITION (RECTANGULAR TO ROUND)
	FLEX	FLEXIBLE DUCT (14"-0 MAXIMUM)
	T-STAT	THERMOSTAT; SEE GENERAL NOTE 17, THIS SHEET
		THERMOSTAT SENSOR (REMOTE); SEE GENERAL NOTE 18, THIS SHEET
	D	CONDENSATE DRAIN
	DIA.	DIAMETER
	DL	DOOR LOUVER
	UC	DOOR UNDERCUT (3/4" MINIMUM)
		MECHANICAL EQUIPMENT DESIGNATION
	A/C , AC	AIR CONDITIONING
	BDD	BACK DRAFT DAMPER
		SMOKE DETECTOR; SEE GENERAL NOTE 10, THIS SHEET.

MECHANICAL SYMBOLS

12

XX-XXX MARK	AREA SERVED	FAN DATA						COOLING CAPACITY			HEATING CAPACITY				UNIT ELECT DATA			MAX UNIT WEIGHT (LBS)	MANUFACTURER AND MODEL NUMBER	REMARKS
		SUPPLY CFM	MIN O.A. CFM	ESP	HP	RPM	NOM TONS	MIN CAP (MBH) TOT/SEN	MIN EER	INPUT STAGE (MBH)	OUTPUT (MBId)	PHASE (STAGES)	AFUE	VOLTS/ PH	MCA	MOPD				
RTU-1	DINING	3600	500	1.0	3.75	1368	10	116/90	12.4	150	120	2	80	208/3	54	60	1300	CARRIER	SEE NOTES 1-6	
RTU-2	KITCHEN	5595	1200	0.8	3.0	600	15	179/112	12.7	250	203	2	81	208/3	71.4	90	2500	CARRIER	SEE NOTES 1-7	
MAU-1	HOODS	-	3840	0.6	1.5	600	-	NA	NA	306	202	1	81	208/3	5.9	15	2200	LDI	-	

NOTES:

1. LISTED CAPACITY IS GROSS COOLING CAPACITY AT 80°F DB/67°F WB EAT AND 95°F AMBIENT. OUTDOOR DESIGN CONDITION, SUMMER: 95°F DB & 74°F WB, WINTER: 17°F. ADJUST SELECTION BASED ON ACTUAL SITE CONDITIONS AND ACTUAL MOTOR HEAT. REFRIGERANT SHALL BE 410A.
2. SPECIFIED RTU'S ARE DOWN DISCHARGE PACKAGED GAS / ELECTRIC ROOFTOP UNITS WITH MINIMUM 2-STAGE COOLING AND STAGED AIR VOLUME . INCLUDES THROUGH THE ROOF CURB POWER, GAS & CONDENSATE DRAIN. GAS PIPING SHALL BE FACTORY PIPED WITH SHUT-OFF OUTSIDE OF UNIT.
3. SPECIFIED UNIT INCLUDES HINGED ACCESS DOORS, 2" PLEATED FILTERS, LOW AMBIENT CONTROL TO 0°F, ENTHALPY ECONOMIZER, MOTORIZED OUTSIDE AIR DAMPER, CIRCUIT BREAKER WITH SINGLE POINT WIRING, HAIL GUARD, AND FACTORY FABRICATED, KNOCK-DOWN ROOF CURB.
4. SPECIFIED UNIT INCLUDES A PROGRAMMABLE THERMOSTAT, UN-POWERED CONVENIENCE OUTLET AND SMOKE DUCT DETECTOR IN THE RETURN DUCT OF UNIT.
5. SPECIFIED UNIT INCLUDES FACTORY INSTALLED HOT GAS REHEAT OPTION
6. SUPPLY AIR TEMPERING (SEE GENERAL NOTE 19, THIS SHEET): WINTER DESIGN DB TEMP. 40 DEG. F OR LESS HOT GAS REHEAT: RTU-1 (DINING) SUMMER DESIGN WB TEMP. 74 DEG. F (OR GREATER). RTU-2 (KITCHEN) SUMMER DESIGN WB TEMP. 75 DEG. F (OR GREATER). STAINLESS STEEL HEAT EXCHANGER: ONLY REQUIRED FOR RTU-2, KITCHEN: WINTER DESIGN DB TEMP. -10 DEG. F. (OR LESS).
7. DESIGN STRUCTURE TO SUPPORT 2800 LBS (FOR FUTURE ADDITION OF COOKING EQUIPMENT REQUIRING LARGER UNIT CAPACITY)

HVAC UNIT SCHEDULE

1

XX XXX MARK	CFM	SP	RPM	HP	ELECT	STARTER	ACCESSORIES					MANUFACTURER AND MODEL NUMBER	REMARKS	REMARKS: 1. UL 762 LISTED (GREASE) 2. VENTED ROOF CURB 3. ROOF CURB 4. GREASE TROUGH 5. HINGED ROOF CURB 6. WEATHERPROOF DISCONNECT SWITCH 7. SOLID STATE SPEED CONTROLLER 8. BACKDRAFT DAMPER
							DISC	BDD	BIRD SCREEN	V-BELT	D-DR			
EF-1	2400	1.0	1212	1	208/3	-	X		X	X		LDI	SEE NOTES 1,2,3,4,5 & 6	
EF-2	2400	1.0	1200	1	208/3	-	X		X	X		LDI	SEE NOTES 1,2,3,4,5 & 6	
EF-3	100	0.5	1075	135W	120/1	-	X	X			X	COOK GC-148	SEE NOTES 7,8	
EF-4	100	0.5	1075	135W	120/1	-	X	X			X	COOK GC-148	SEE NOTES 7,8	

EXHAUST FAN SCHEDULE

2

XX XXX MARK	QUANTITY	NECK SIZE	DIFFUSER FACE OR CEILING GRID SIZE	TYPE			AIR PATTERN	MOUNTING		DUTY		MATERIAL		MANUFACTURER	MODEL NUMBER	REMARKS
				DIFFUSER	REGISTER	GRILL		LAY-IN	SURFACE	SUPPLY	RETURN	EXHAUST	ALUMINUM	PLASTIC		
S-1	-	VARIES	24 x 24	X			4W			X			X		PRICE	RCD
							0-1000									
S-2	-	VARIES	12 x 12	X			4W	X		X			X		EGER PRODUCTS	EA 12X12
							0-250									
S-3	-	VARIES	24 x 24	X			4W	X		X			X		EGER PRODUCTS	EAMRI
							0-1000									
R-1	-	22 x 22	24 x 24			X		X			X		X		EGER PRODUCTS	EAPERF
							0-1900									

NOTES:

1. REFER TO PLANS FOR QUANTITY 2. REFER TO PLANS FOR NECK SIZE 3. PROVIDE WITH OPPOSED BLADE DAMPER 4. POWEDER COAT BLACK COLOR

AIR DEVICE SCHEDULE

3

ITEM	OA	RA	SA	EA	PRESSURE
EF-1	--	--	--	2400	-2400
EF-2	--	--	--	2400	-2400
EF-4	--	--	--	100	-100
EF-5	--	--	--	100	-100
RTU-1	500	3100	3600	--	+500
RTU-2	1200	4800	6000	--	+1200
MAU-1	3840	0	3840	--	+3840
TOTAL	+5540	7900	13440	5000	+540

AIR BALANCE SCHEDULE CFM


4

NOT USED

N.T.S.

8

PLAN SET REVISIONS:

CONTRACT DATE: 03-19-2018

BUILDING TYPE: FLAGSHIP

PLAN VERSION:

SITE NUMBER:

ENTITY NUMBER:

STORE NUMBER:

KFC

1207 LINCOLN WAY EAST
MASSILLON, OHIO



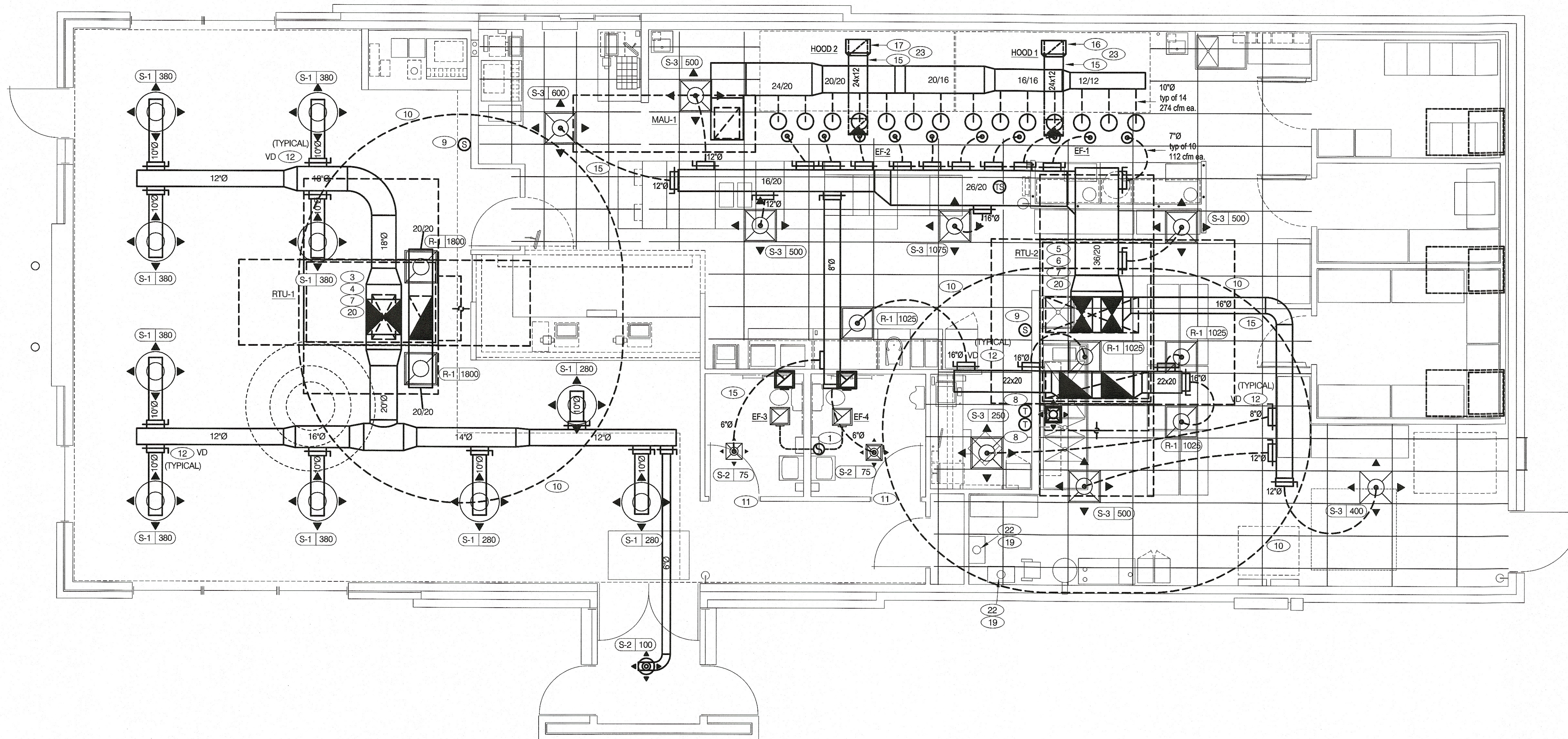
FLAGSHIP
PROTOTYPE

MECHANICAL
SCHEDULES
AND NOTES

M1.0

PLOT DATE: 05.31.2016

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DUCT AND DIFFUSER PLAN 1/4"=1'-0" A

- A. INSTALLATION AND TERMINATION OF THE POWERED VENT SYSTEM FOR THE WATER HEATER SHALL BE IN ACCORDANCE WITH THE VENT AND WATER HEATER MANUFACTURERS INSTALLATION INSTRUCTIONS, AND LOCAL CODES AND REQUIREMENTS.
- B. DINING ROOM / KITCHEN LIGHT FIXTURE LOCATIONS ARE CRITICAL. COORDINATE DUCTWORK LOCATIONS SO AS NOT TO CONFLICT WITH LIGHT FIXTURE LOCATIONS. REFER TO SHEET E4.0 FOR CEILING GRID / LIGHT FIXTURE LOCATIONS.
- C. THERMOSTATS SHALL BE PROGRAMMABLE WITH SUBBASE AND REMOTE TEMPERATURE SENSOR; REFER TO KEYNOTES 9 AND 10, THIS SHEET.
- D. DUCTS FOR RTU-1 (FRONT OF HOUSE) SHALL BE RUN EXPOSED TIGHT TO UNDERSIDE OF TRUSS. COORDINATE WITH STRUCTURAL DRAWINGS. SEE DETAIL 1 / S4.2. ALL EXPOSED DUCTWORK TO BE CLEANED AND PREPARED FOR PAINTING.

- 1 8"Ø EXHAUST AIR DUCT UP TO GOOSENECK TERMINATION ON ROOF, 200 CFM. SEE DETAIL 2 ON SHEET M4.0. PROVIDE MOTORIZED BACKDRAFT DAMPER IN EACH EXHAUST DUCT CONNECTING EXHAUST FAN TO 8"Ø EXHAUST DUCT. EXHAUST FANS + MOTOR DAMPERS SHALL BE WIRED TO RESTROOM LIGHTS AND CONTROLLED BY MOTION SENSOR; SEE KEYNOTE 1, SHEET E4.0.
- 2 NOT USED.
- 3 38 x 18 SUPPLY AIR DUCT: 3,600 CFM. CONNECT TO SUPPLY AIR OPENING AT ROOFTOP UNIT, RTU-1 (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).
- 4 32 x 18 RETURN AIR DUCT: 3,100 CFM. CONNECT TO RETURN AIR OPENING AT ROOFTOP UNIT, RTU-1 (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).
- 5 (2) 18 x 26 SUPPLY AIR DUCT: 6,000 CFM. CONNECT TO SUPPLY AIR OPENING AT ROOFTOP UNIT, RTU-2 (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).
- 6 (2) 24 x 18 RETURN AIR DUCTS: 4,100 CFM. CONNECT TO RETURN AIR OPENING AT ROOFTOP UNIT, RTU-2 (COORDINATE WITH RTU SUPPLIER / SPECIFICATIONS).
- 7 FURNISH AND INSTALL SMOKE DETECTOR IN THE RETURN AIR DUCT, IN ACCORDANCE WITH LOCAL CODES. DUCT SMOKE DETECTOR WIRED BY ELECTRICAL CONTRACTOR, SEE SHEET E3.2; SEE DETAIL 2 / E6.0.
- 8 REMOTE THERMOSTAT CONTROLLER. REFER TO FLOOR PLAN FOR SENSOR LOCATION.
- 9 ROOM SENSOR. REFER TO OFFICE FOR LOCATION OF THERMOSTAT CONTROLLER.
- 10 CLEARANCE REQUIRED FOR OUTSIDE AIR HOOD.
- 11 UNDERCUT RESTROOM DOORS MIN. 3/4" FOR MAKE-UP AIR.
- 12 PROVIDE MANUAL VOLUME DAMPER, TYPICAL AT ALL SUPPLY AIR + RETURN AIR DIFFUSERS, IN ACCESSIBLE LOCATION WHENEVER POSSIBLE. FOR NON ACCESSIBLE LOCATIONS PROVIDE REMOTE CABLE CONTROL UNIT BOWDEN MODEL 270-301 AS MANUFACTURED BY YOUNG REGULATOR CO. OR APPROVED EQUAL.
- 13 NOT USED.
- 14 NOT USED.
- 15 SUPPLY, RETURN, OR EXHAUST DUCTWORK RUN BETWEEN ROOF TRUSSES.
- 16 23 x 11 EXHAUST AIR DUCT DOWN TO EXHAUST HOOD. EXHAUST DUCT SHALL OFFSET IN CEILING SPACE TO CONNECT TO ROOF EXHAUST FAN EF-1. SEE HOOD DETAILS ON HOOD MANUFACTURER DRAWING. SEE DETAILS HOOD MANUFACTURER DRAWING FOR FIRE PROTECTION OF DUCTWORK.
- 17 23 x 11 EXHAUST AIR DUCT DOWN TO EXHAUST HOOD. EXHAUST DUCT SHALL OFFSET IN CEILING SPACE TO CONNECT TO ROOF EXHAUST FAN EF-2. SEE HOOD DETAILS ON HOOD MANUFACTURER DRAWING. SEE DETAILS HOOD MANUFACTURER DRAWING FOR FIRE PROTECTION OF DUCTWORK.
- 18 NOT USED.
- 19 FURNISH AND INSTALL SCHEDULE 40 PVC WATER HEATER FLUE VENTS. TERMINATION. RUN THRU WEBS TO OUTFALL AT VENT ON EXTERIOR WALL. SEE EXTERIOR ELEVATION FOR HEIGHT. SEE DETAIL 2/P5.0. COORDINATE WORK WITH ALL TRADES.
- 20 THE INSIDE OF THE RETURN AIR DUCTS FROM THE AIR CONDITIONER SHALL BE LINED FROM THE AIR HANDLING EQUIPMENT TO A DISTANCE OF 10' FROM THE UNIT WITH ULTRALITE #300 - 1/2" THICK OR OTHER APPROVED DUCT LINEAR ACOUSTICAL BOARD. THE MATERIAL SHALL BE FITTED CAREFULLY ON THE INSIDE OF THE DUCT AND SHALL BE FASTENED ON WITH CEMENT SUPPLEMENTED BY SCREWS AND WASHERS ON TOP AND SIDES OF DUCT.
- 21 NOT USED.
- 22 FURNISH AND INSTALL SCHEDULE 40 PVC WATER HEATER AIR INTAKE ON ROOF. SEE DETAIL 2/P5.0. COORDINATE WORK WITH ALL TRADES.
- 23 CANTILEVER HOOD SUPPORT RODS AWAY FROM DUCTWORK. USE ANGLE TO OFFSET THE SUPPORTS.

NOT USED

D

GENERAL NOTES

C

KEY NOTES

B

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△	

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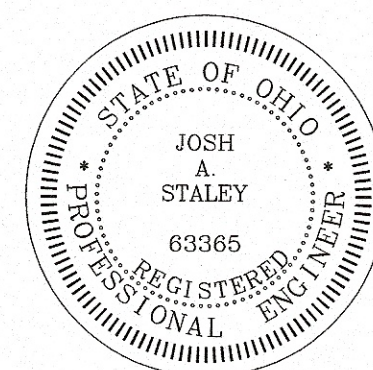
FLAGSHIP
PROTOTYPE

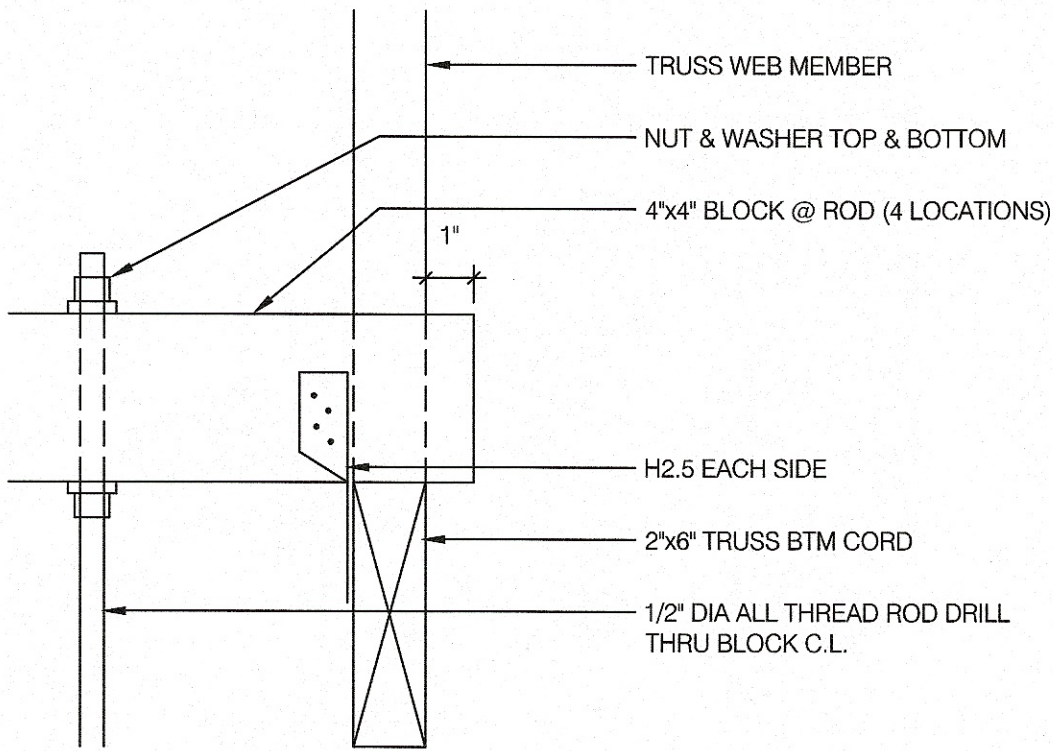
DUCT and
DIFFUSER
PLAN

M2.0

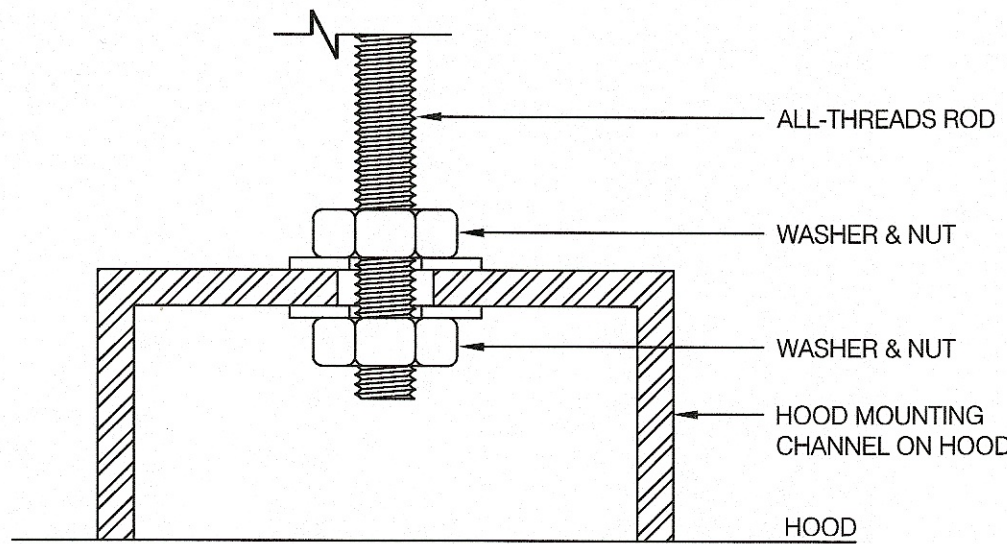
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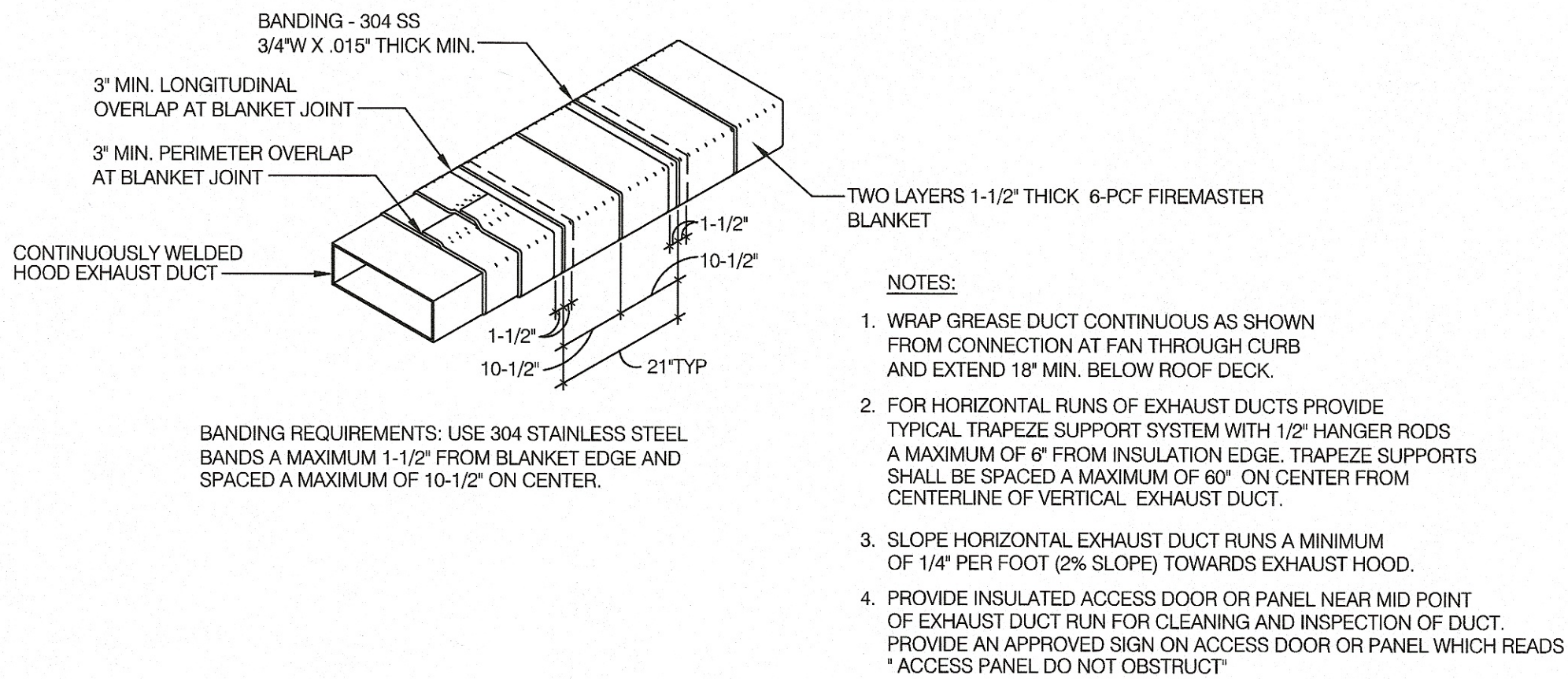




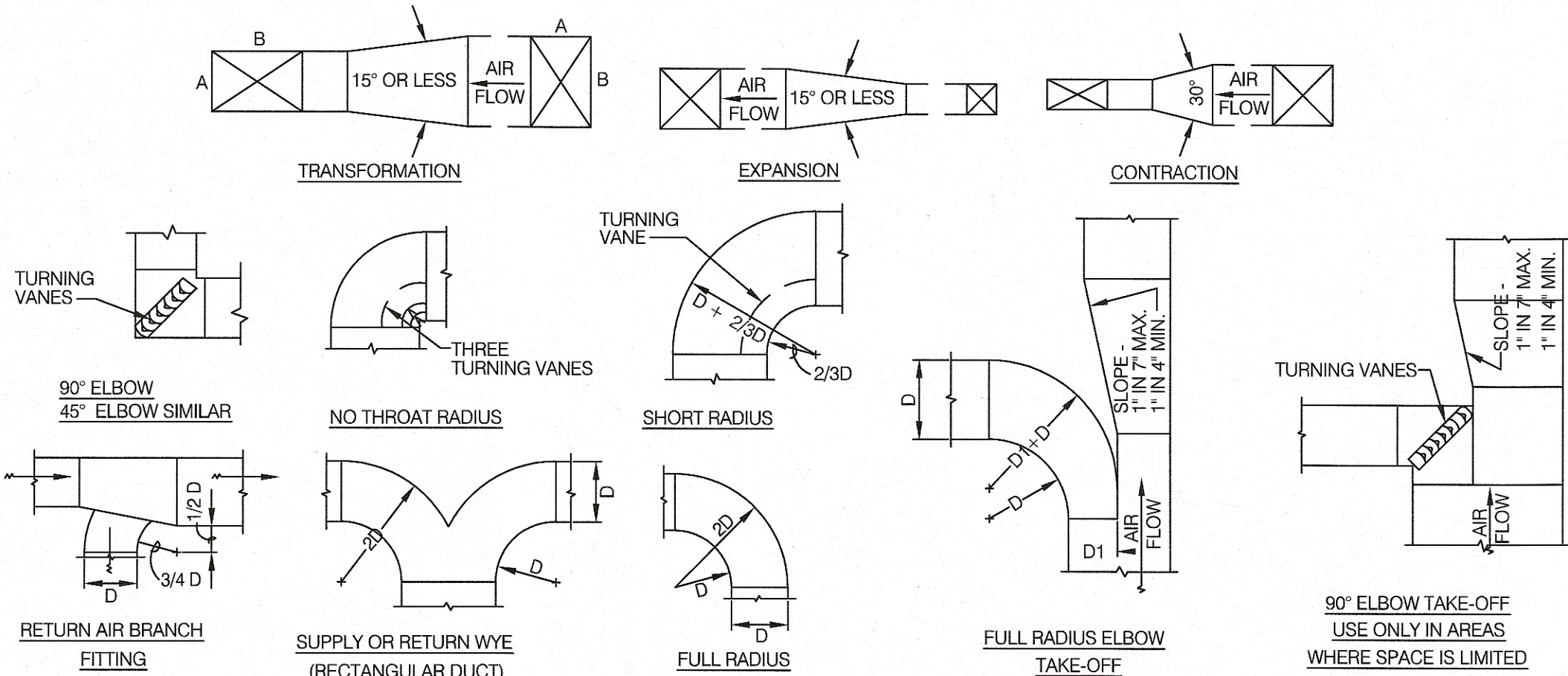
ROD ATTACHMENT 3" = 1'-0" 13



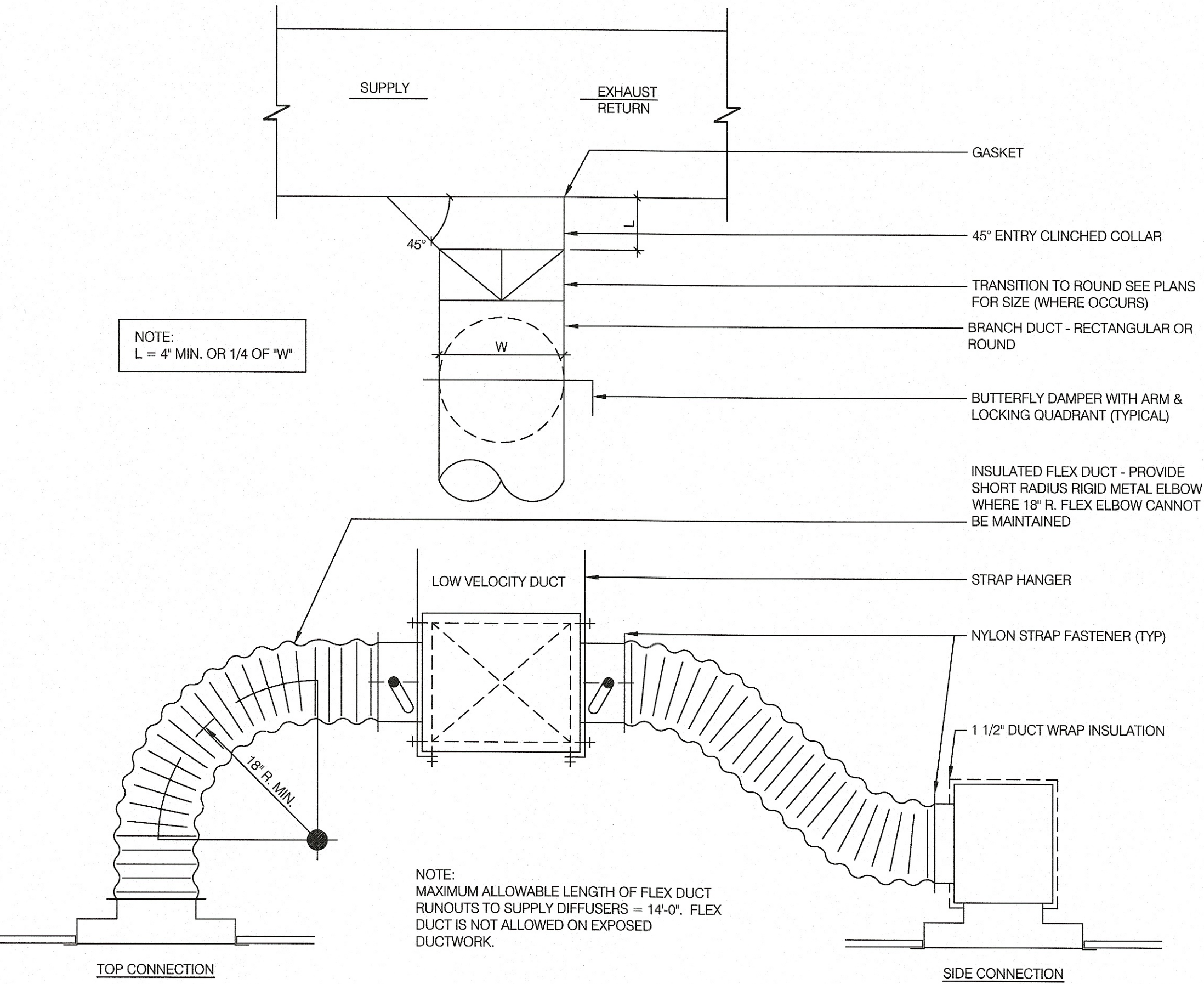
BOLT CONNECTION TO HOOD N.T.S. 14



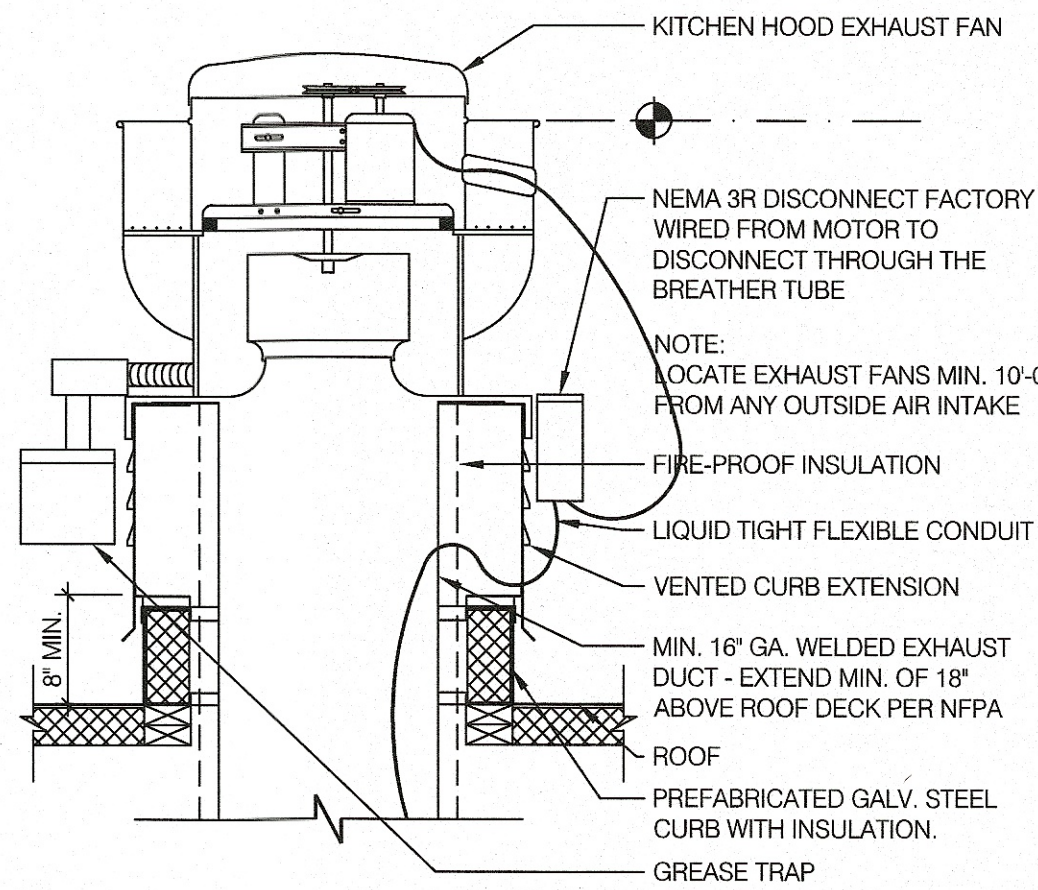
KITCHEN HOOD EXHAUST DUCT SYSTEM DETAIL N.T.S. 15



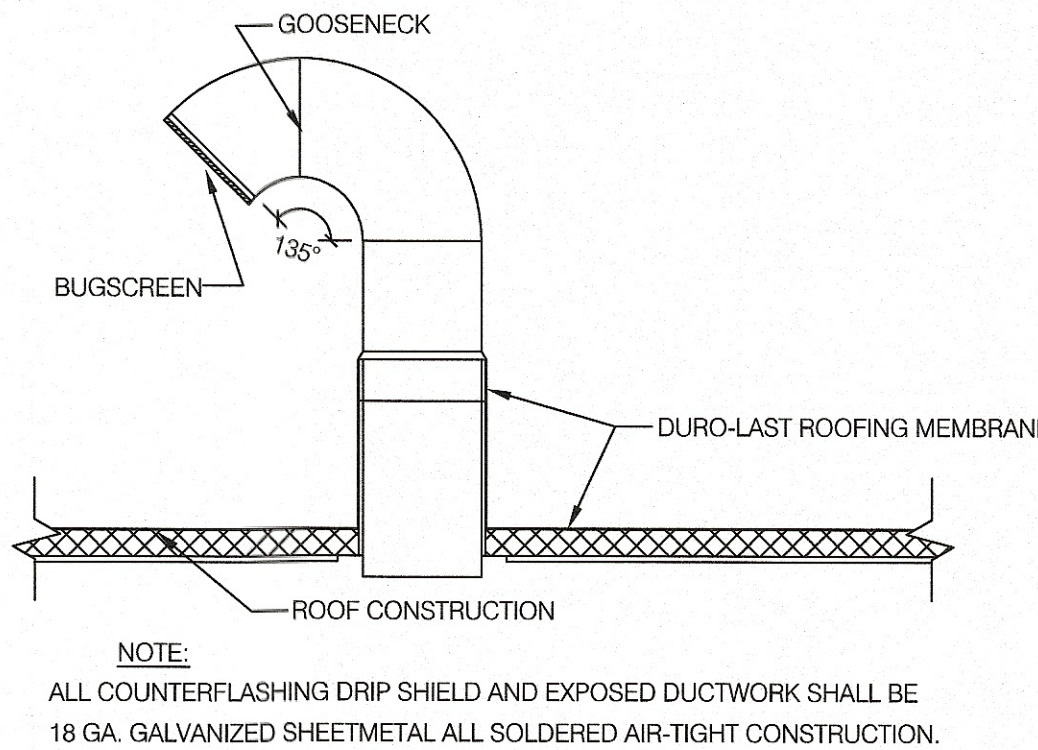
TYPICAL DUCTWORK DETAILS N.T.S. 16



CEILING DIFFUSER CONNECTIONS 3/8" = 1'-0" 8



EXHAUST FAN N.T.S. 1



GOOSENECK FOR EXHAUST FAN N.T.S. 2

GENERAL NOTES

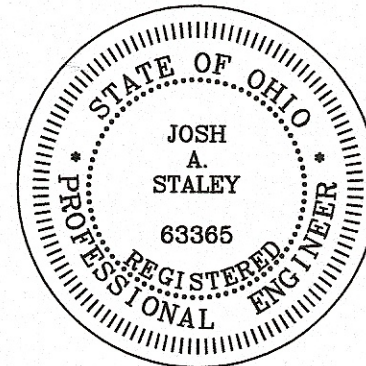
- Exhaust duct collars may be field cut.
- Exhaust duct air flow velocity shall be greater than 1500 FPM, lower if allowed by local codes.
- Exhaust air flows must be balanced upon installation.
- Fan operating speed should be rechecked after 60 days to ensure proper performance. Static pressure values are given for the hood only (unless otherwise noted).

SPECIFICATIONS

- Hoods shall be constructed of minimum 20 gauge stainless steel with # 3 polish. All unexposed surfaces shall be constructed of minimum 18 gauge aluminized steel.
- UL classified aluminum or stainless steel baffle-type filters shall be easily removed for cleaning. Filter housing shall terminate in a pitched grease trough that drains into a removable stainless steel grease cup.
- UL listed and NSF approved vapor proof light fixtures pre-wired to junction box at top of hood in accordance with NEC 70. Lamps to be screw-in CFL, provided by others.
- Pre-piped fire suppression systems shall be located on the top of the hood and provided with the hood or by a certified technician. Final location of all nozzles and fire suppression drops to be locally approved and inspected.
- Hood(s) shall be fabricated in accordance with NFPA Bulletin #96 and shall bear the NSF Seal of Approval. Hoods shall be listed under UL 710 EXHAUST HOODS FOR COMMERCIAL COOKING EQUIPMENT, Certified by ETL under FILE# 3054804-001.

HOOD NOTES AND SPECS (TYP.) 4

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M3.0

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