

2 Water Supply Connection
P1 SCALE: None

TAG	DESCRIPTION
VTR	Vent Through Roof
WC	Water Closet
LAV	Lavatory
UR	Urinal
HD	Hub Drain
3BS	Triple Bowl Sink
HWS	Hand Wash Sink
WH	Water Heater
SH	Shower
MS	Mop Sink
WW	Warewasher
DT	Dishable
IM	Ice Machine
4BS	Four Bowl Sink
DP	Drip Pan, Glass Rinser
PS	Prep Sink
US	Underbar Station
UGR	Underbar Glass Rack
WR	Walk-in Refrigerator
WE	Walk-in Evaporator
HDS	Head Draft System
SO	Smoker&Smoke Oven
FS	Floor Sink
IB	Ice Bin

General Notes

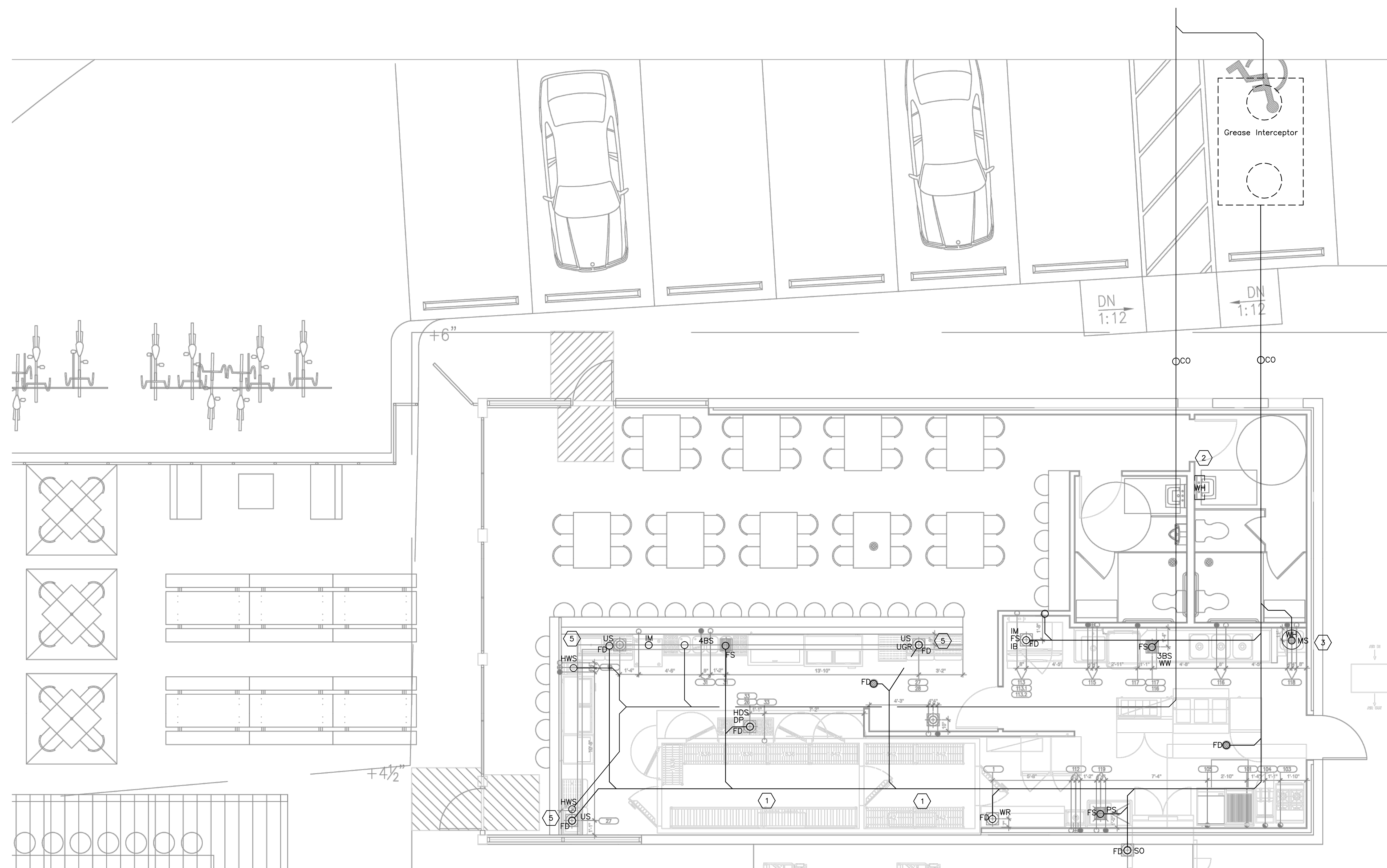
- New work under this contract is shown in bold line weight. Existing plumbing work (if any) is shown in dark gray fashion. Work by others and other elements is shown in light gray.
- This drawing shall not be used for construction unless it bears both the seal and signature of the engineer. Blue line reproductions are not approved for construction. Use only the most current revision. All work shall be coordinated with other trades. Gravity drainage takes precedence, followed by HVAC ductwork, and then electrical.
- Plans are essentially diagrammatic in nature, and do not necessarily reflect all pre-existing conditions, obstacles or ancillary work. This contractor shall conduct his own survey of the job site, and report any material deviations to the engineer prior to commencing work.

Plumbing Plan Symbol Legend

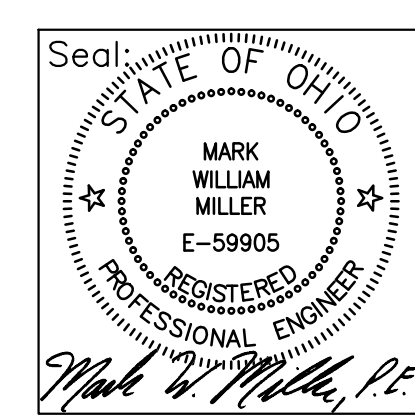
- Point of connection to existing system elements.
- Domestic cold water supply line. Type M copper tubing. Insulate with 1/2" Armaflex or equal. 1/2" diameter unless otherwise noted.
- Domestic hot water supply line. Type M copper tubing. Insulate with 1/2" Armaflex or equal. 1/2" diameter unless otherwise noted.
- Under floor sanitary waste line. PVC solvent weld after application of colored primer. All sizes given on isometric unless otherwise shown. Slope is 1/8" unless otherwise noted.
- Overhead sanitary vent line. PVC solvent weld after application of colored primer. All sizes given on isometric unless otherwise shown.
- xxx Fixture designation. Specified by Architect unless scheduled herein.
- vtr 3" vent through roof as detailed.
- Domestic water run out to fixture inside wall/floor. Provide escutcheon plate and stop valve at fixture. 1/2" unless otherwise scheduled.
- Piping run continuation to utility connection. See site/civil drawings for continuation and tie-in details.
- Water meter. See detail for water service entrance equipment, sizes, connections, and back flow prevention.
- Gas Meter
- Tabulation meter installed on gas line.

Plumbing Plan Notes

- Field route walkin refrigeration box condensate drains to floor sink 119 and tie-in via 1" air gap.
- Provide instahot or equal wall mounted water heater to serve only LAVs in Men's and Women's toilet rooms. Set temperature at 110°F.
- Provide 50 gallon storage type gas water heater on platform above mop sink. Provide 75 gallon capacity if electric water heater is elected.
- Provide ASSE-1070 water temperature limiting device at each public hand washing fixture set to deliver water no hotter than 120°F.
- Provide ASSE-1022 vented double check backflow prevention device at each beverage dispensing equipment connection to the domestic water supply. Vent shall be installed in downward position, and drained to visible location via 1" minimum air gap. Provide water hammer arrestor installed in the upward position.



1 Plumbing DWV Plan
P1 SCALE: 1/4" = 1'-0" 0 2' 4' 8'



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Plumbing Renovation for:
Will's BBQ
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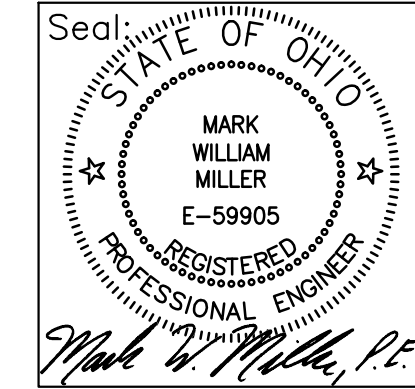
Issued For:	0 Permit & Construction	Date:	30 Oct 2018	By:	M. Miller
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17 October 2018

Plumbing Plan

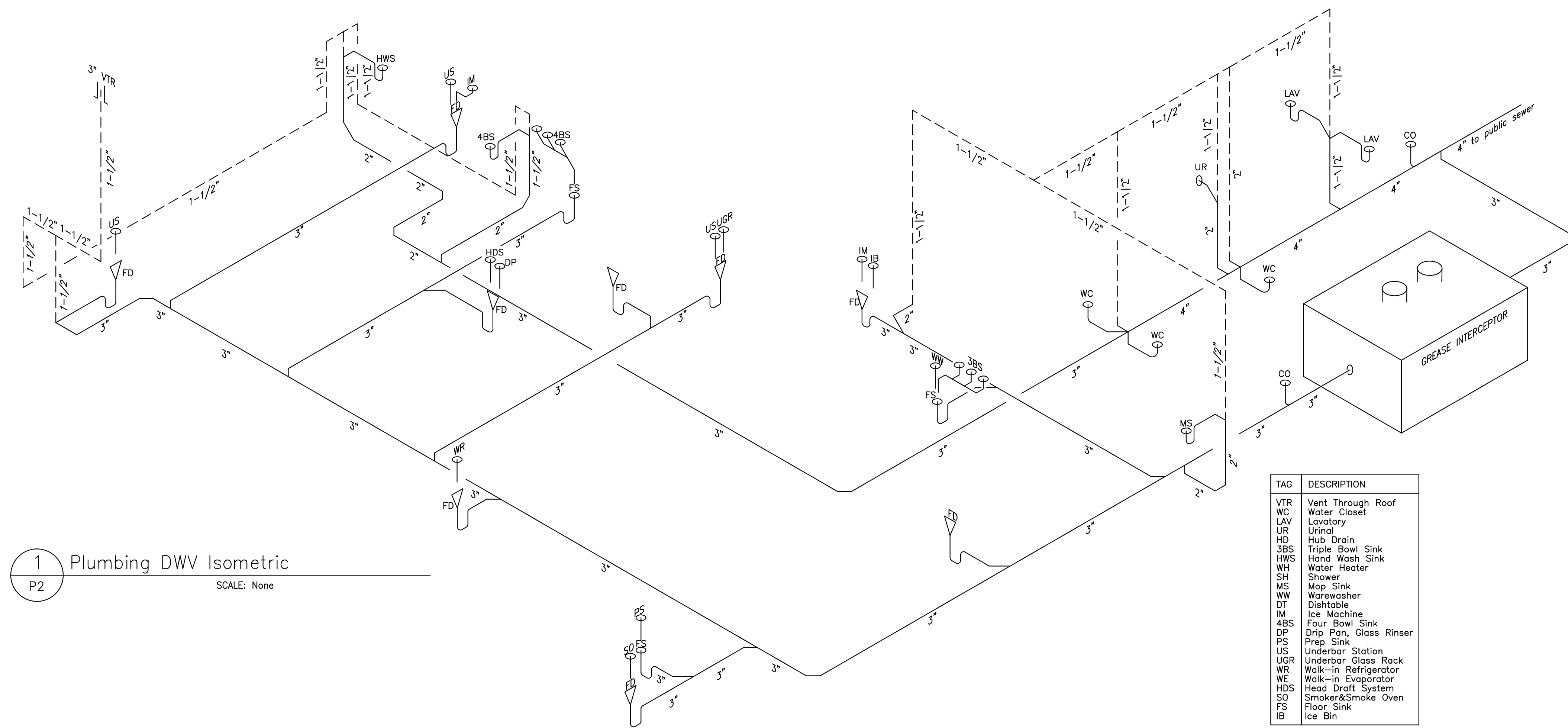
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ITEM NO	QTY	DESCRIPTION	MFR NAME	MODEL NUMBER	AMPS	KW	HP	VOLTS	PHASE	DIRECT	PLUG	NEMA	AFF IN.	CW	AFF IN.	HW	AFF IN.	DIRECT IN.	AFF IN.	INDIRECT IN.	AFF IN.	GAS	MBTUH	AFF IN.	REMARKS
1	1	WALK-IN COOLER W/ LIGHTS	KOLPAK	CST	15.0			120	1	X			DFC							1.5	FD				
1.1	1	WALK-IN COOLER EVAPORATOR	KOLPAK	CST																1	FD				
1.2	1	WALK-IN COOLER COMPRESSOR	KOLPAK	CST																					
1.3	4	SHELVING, WIRE EPOXY	FOCUS	FF1836BK																					
1.4	5	SHELVING, WIRE EPOXY	FOCUS	FF1842G																					
1.5	2	SHELVING, BEER KEGS	NEW AGE INDUSTRIAL	1288																					
1.6	2	WALK-IN BEVERAGE COOLER W/ LIGHTS	KOLPAK	CST	15.0			120	1	X			DFC												
1.7	1	WALK-IN COOLER EVAPORATOR	KOLPAK	CST																1	FD				
1.8	1	WALK-IN COOLER COMPRESSOR	KOLPAK	CST																					
1.9	5	DOOR, WALK-IN COOLER/FREEZER	BALLY REFRIGERATED BOXES	24" ANTHONY GLASS DOOR																					
2	1	MILLWORK	BY OTHERS	CUSTOM																					
19	1	SINK, HAND, WALL MOUNT	ADVANCE TABCO	7-PS-23										.5	24	.5	24	1	18						
26	1	26 HEAD DRAFT SYSTEM	DRAFT SYSTEM	CST																1	FD				
27	3	UNDERBAR ALL-IN-ONE STATION	KROWNE METAL	18-D48L-7																1	FD				
28	1	UNDERBAR GLASS RACK	KROWNE METAL	18-GSB3																1	FD				
29	1	ICE MAKER W/ BIN	ICE-O-MATIC	ICEU150FW	7.9			115	1	X			38	0.375	10					0.75	FD				
30	6	UNDERBAR SPEED RAIL	KROWNE METAL	S-24																					
31	1	UNDERBAR SINK	KROWNE METAL	18-64C										0.5	16	0.5	16			1	FS				
32	2	COOLER, BOTTLE	TRUE FOOD SERVICE	TD-50-18	8.8		0.3	115	1	X	5-15P	12													
33	1	DRIP PAN, GLASS RINSER	MICRO MATIC USA	DP-1604										0.5	24					1	FD				
34	1	MUG FROSTER	BEVERAGE-AIR	GF24L-B	6.5		1/3	115	1	X		12													
35	1	FROSTER/CHILLER, GLASS/MUG/PLATE	BEVERAGE-AIR	GF48L-B	7.5		0.3	115	1	X	5-15P	4.75													
101	1	BROILER, UNDER-FIRED, GAS, COUNTER	VULCAN	VACB25																	0.75	72	30		
102	1	EXHAUST HOOD	CAPTIVE AIRE	CUSTOM																					
103	1	RANGE, RESTAURANT, GAS	VULCAN	24S-4B-N																	0.75	143	30		
104	1	FRYER, DEEP FAT, GAS	VULCAN	LG500																	0.75	90	30		
105	1	GRIDDLE, GAS	VULCAN	924RX	1.0			120	1	X	5-15P	12									0.75	54	30		
106	1	REFRIGERATOR, SHORTY	TRUE MANUFACTURING CO., INC.	TRCB-48	5.4		0.2	115	1	X	5-15P	12													
107	1	SMOKER & SMOKE OVEN	SOUTHERN PRIDE	SPK-500	15.0			120	1	X	5-15P	68								2	FD	0.5	75	30	
108	1	REFRIGERATOR, SANDWICH/SALAD PREP W/ OVERSHELF	TRUE FOOD SERVICE	TSSU-48-10	8.6		0.3	115	1	X	5-15P	SU													
109	1	TABLE, HOT FOOD	EAGLE GROUP/METAL MASTERS	SDHT3-120	12.5	1.5		120	1	X	5-15P	SU													
109.1	1	OVERSHELF, DOUBLE	EAGLE GROUP/METAL MASTERS	DOS-HT3																					
109.2	1	DISH SHELF	EAGLE GROUP/METAL MASTERS	353986																					
110	1	REFRIGERATOR, REACH-IN	TRUE FOOD SERVICE	T-23-HC	3.0		1/5	115	1	X	5-15P	SU													
112	1	HAND SINK, WALL MOUNT	ADVANCE TABCO	7-PS-23-EC-X										1/2	24	1/2	24	1	1/2	18					
113	1	ICE MAKER W/O BIN	MANITOWOC ICE	IY-1874C	1.1		1.8	115	1	X		76			FRM# 113.2					0.5	FD				
113.1	1	BIN, ICE	MANITOWOC ICE	B-970																1.5	FD				
113.2	1	FILTER SYSTEM, ICEMAKER	MANITOWOC ICE	AR-40000										0.5	96					1.5	FD				
113.3	1	ICEMAKER CONDENSER, REMOTE	MANITOWOC ICE	ICVD-1895	25.0		2.5	208	1	X		14.5													
115	1	DISHTABLE, SOILED	EAGLE GROUP/METAL MASTERS	SDTL-30-14/3										0.5	16	0.5	16	1.5	18						
116	1	CLEAN DISHTABLE & 3 COMPARTMENT SINK	ADVANCE TABCO	DTC-3-1620-84R-MODIFIED										.5	16	.5	16			1.5	FS				
117	1	WAREWASHER, DOOR TYPE, HIGH TEMP	HOBART US FOODSERVICE	AM15 ELEC	43.0	5.0	2.0	208-240	1	X		13.25								1.5	FS				
					35.4	8.5		208-240	1	X		10.75													
118	1	SINK, MOP	ADVANCE TABCO	9-OP-20-X										1/2	36	1/2	36	4	FL						
119	1	SINK, NSF, 1 COMP, 16 GAUGE	ADVANCE TABCO	FC-1-1818-18L										.5	16	.5	16			1.5	FS				
121	2	CABINET, MOBILE, WARMING & HOLDING	CRES COR	H-135-WUA-11	16.0	2.0		120	1	X	6-20P	12													
122	1	TABLE, WORK, 16 GAUGE, BACK SPLASH W/ UNDERSHELF	ADVANCE TABCO	KMS-242																					
123	1	TABLE, WORK, FLAT TOP W/ UNDERSHELF	ADVANCE TABCO	SLAG-186-X																					
123.1	1	SHELF, WALL MOUNT	ADVANCE TABCO	WS-12-72-16																					
C.O.	3	CONVENIENCE OUTLET			15.0			120	1	X		46													BY ELECTRICIAN



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Plumbing Renovation for:
Will's BBQ
 3770 Montgomery Road
 Norwood, Ohio 45212



1 Plumbing DWV Isometric
 P2 SCALE: None

COPY/PASTE THIS SECTION TO CONSTRUCTION DOCUMENTS
GREASE INTERCEPTOR CALCULATIONS
 Reference No. 3642 Project Name: Will's BBQ Eng. Firm: Plumchetrics Con...
 This sizing recommendation has not been affirmed by the local jurisdiction.

CALCULATIONS	
Step 1: Flow Rate to grease interceptor (lower of pipe size and total fixture flow rate)	Step 2: Grease Production Amount of square feet in facility: 1944
Total Fixture Flow Rate: 89.35 GPM	Grease Rating per meal: High, 0.035 lbs
Pipe Flow Rate (3 in): 35 GPM	Days between pump-outs: 90 days
35 GPM	(1944 x .6) / 14 x 4 x 0.035 x 90 = 1049.76 lbs of FOG

SCHIER MODEL
GB-250
 Description: Polyethylene Grease Interceptor
 Flow Rates/Grease Capacities: 100 GPM/1076.0 lbs
 Liquid Capacity: 275 gal

NAME/TAG	TYPE	QTY	FLOW RATE (2 MIN 1 MIN)	DFU	DIMENSIONS	CAPACITY
3BS	Multi-Compartment Three Bo...	1	30 GPM 60 GPM	6	21" x 21" x 14"	80.18 gal
4BS	Multi-Compartment Four Bow...	1	40 GPM 80 GPM	6	21" x 21" x 14"	106.91 gal
FD	Floor Drain	7	N/A N/A	2	N/A	N/A
FS	Floor Sink	3	0 GPM 0 GPM	2	N/A	N/A
MS	Mop Basin	1	9.35 GPM 18.7 GPM	3	24" x 24" x 10"	24.94 gal
PS	Prep Sink One Bowl	1	10 GPM 20 GPM	2	21" x 21" x 14"	26.73 gal

SCHIER

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Plumbing Isometric

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