GENERAL PLUMBING NOTES

- . Materials, equipment, and systems shall meet all pertinent requirements of the Underwriters Laboratory (ULs, the American Society for Testing Materials (ASM), Borda Building Code Sartis Edition (2017) Planning, Forida Building Code Sartis Edition (2017) Planning, Forida Building Code Sartis Edition (2017) Integro, Conservation, American Water Works Association (AWWA), American Code Sartis Edition (2017) Integro, Conservation, American Code Sartis Edition (2017) Integro, Conservation (AWWA), American Code Sartis (2018), National Fee Protection Association (NPPA), and other nationally recognized agencies as well as applicable best closes.
- 2. Bidders shall be beensed contractors in accordance with local and state laws.
- 3 Bilders shall thoroughly acquaint themselves with the conditions under which the work is to be performed. They shall examine all services, equipment, surfaces, etc., which this work is in any say dependent upon, and bring any discrengence determined or omissions found in the drawings to the owner's attention before submitting bid.
- 5. Contractor shall guarantee all work for which materials are famished, fibricated or field erected, all factory assembled equipment for which no specific manufacturer's guarantee is farmished, and all work in connection with installing manufacturer's guaranteed equipment. This contractor's guaranteed shall exist for a period of one (1) year from the date of final owner acceptance of the work and shall apply to delects in material and to defective workmanning of any other processing of the state of the
- 6. The systems shown on the drawings shall be provided to serve all fixtures, equipment, and areas within the Contract Limit lines as set forth by the Architectural solution for the project. Systems shall include all equipment, apputenances, sately devices, and controls accessary for the intended service.
- 7. All permits and fees required for the work shall be secured and paid for by the plumbing contractor and iscluded in bid
- 3. Anything firms in especified on these plans shall not be construed to criffice with any local, mannipator state by, regulation or ordinance which governs the installation of any plumbing or related work. Where any portion of the systems are not installed as in accordance with applicable buy, ordinances, regulations and codes, this contractor shall make all changes required by the enforcing authorities in a manner approved by the owner and without additional cost to the owner.
- Where job conditions require changes from the contract documents that do not change the scope of installation or nature of work required, the contractor shall make such changes without additional cost to the owner. No other changes may be made without written premission of the owner.
- 10. All equipment and fixtures shall be new and noused end installed in strict conformance to menufacturer's recommendations. Provide fixtures complete with all trun, stope, hangers, carriers, supports, etc. including province for the handkapped, if required. Where fixtures are accessible to the handkapped, fixtures must comply with all toderal ADA regulations.
- 11. Arrange for chases, slots, and openings in other building components to allow for planning installations. Coordinate the cutting and patching of building components to accommodate installation of planning equipment and materials.
- 12. Do not endanger or damage installed Work through procedures and processes of catting and patching. Provide repairs required to restore other work, because of damage caused as a result of planthing installations.
- 13. Coordinate the installation of required supporting devices and sleeves to be set in poured in place concrete and other structural components, as they are constructed.
- 14. Sequence, coordinate, and integrate installations of plumbing materials and equipment for efficient flow of the Work. Give particular attention to large equipment requiring positioning prior to closing in the building.
- 15. Where mounting heights are not detailed or dimensioned, install plumbing services and overhead equipment to provide the maximum headroum possible.
- 16. Install plumbing equipment to facilitate maintenance and repair or replacement of equipment components. As much as practical, connect equipment for ease of disconnecting, with minimum of interference with other installations.
- 13. All pipes shall be of the size given on the drawings. All piping shall be ran true to line. Pipes may be moved, if necessary for installation, provided that the nature of the system is not changed. All pipes shall be conocalled: focated above celling, below those or the walk, except whose conocalent is made to fixture.
- 20. Plumbing service rough-in shall be based on information, drawings, equipment cuts, etc. prepared by the equipment supplier. First plumbing connections shall be made from rough-in to equipment after equipment is set in place.
- 22. All pipes, pumps, control devices, fire protection, and uniscellaneous apparatus shall be clearly marked for easy identification and safety. Use black plastic or bakelite name plate engraved with white letters 114* high. Punched tape is not acceptable.
- All above-ground water supply piping shall be Charlotte Pipe Blowguard Gold CTS CPVC water piping, except use Typ rigid copper within 10 Gen of water heater and Themastur. All below grade water supply piping, shall be Type K-soft copper with a least 50 between joints. All joints datall be soldered with "Badd-free" Softween (e.g., 98-28) and
- 25. Flush and sterilize water system after connections are made in accordance with local regulations.
- All sanizery waste piping below skeb shall be cast-iron or solid-wall PVC. Other DWV piping may be solid-wall PVC or east-iron or galvanized steel, except that PVC may NOT be used in demising walls and may NOT be used in return plenum ceilings.
- 28. All domestic water piping, vent piping and gas piping shall run above ceiling, UON. All sanitary and storm piping shall be run under the floor, UON.
- All user riping paids the hadding internal case logs shall be involved with jacks of fibercitor sign modification with secoled souns (Owen Corning SSI-Life or equal) an ollows: Cold variety, 1/2" thick involvation, not water supply and recirculation piping 1.25" did and smaller, 1" thick insulation, hot water supply and recirculation piping 1.5" dia and larger, 1.5" thick insulation.

- Fabricate, instaß, inspect, test and purge natural gas systems in so-local gas company. Gas pipe shall be schedule 40 black steel, UON

SUPPLY FIXTURE UNIT CALCULATIONS

SI IDDI V EXV	TURE UNITS	01111	O, 121	-					
Fixture ID	Description	QUAN	SFU	per fix	ture	SFU total			
Code Table:		-5,-1111	cw	HW	Both	cw	HW	Both	
BA03	Proofer	1	2.0	0.0	2.0	2.0	0,0	2.0	
BA05	Bakery Oven	1	2.0	0.0	2.0	2.0	0.0	2.0	
CA01	Coffee/Tea Brewer	1	0.5	0.0	0.5	0.5	0.0	0.5	
CA02	Dishwashing machine, public	1	0.0	2.0	2.0	0.0	2.0	2.0	
CA04	Coffee/Tea Brewer	1	0.5	0.0	0.5	0.5	0.0	0.5	
CA05	Ice Machine	1	0.5	0.0	0.5	0.5	0.0	0.5	
CS-1	1 Compartment sink, public	S	1.5	1.5	2.0	3.0	3.0	4.0	
DE16	Dishwashing machine, public	1	0.0	2.0	2.0	0.0	2.0	2.0	
DE20	Steamer	2	0.5	0.0	0.5	1.0	0.0	1.0	
DE29	Hot Food Bar	1	1.5	0.0	1.5	1.5	0.0	1.5	
DE38	Pasta/soup fill	1	1.5	1.5	2.0	1.5	1.5	2.0	
HB-1	Hose Bibb. HW	8	0.0	3.0	3.0	0.0	24.0	24.0	
HB-1	Hose Bibb, CW	1	3.0	0.0	3.0	3.0	0.0	3.0	
PRO4	Ice Machine	1	0.5	0.0	0.5	0.5	0.0	0.5	
R/O	Hose Bibb, CW	1	3.0	0.0	3.0	3.0	0.0	3.0	
SK01	Hand Sink	9	1.5	1.5	2.0	13.5	13.5	18.0	
SK02	1 Compartment sink, public	4	1.5	1.5	2.0	6.0	6.0	8.0	
SK05	3 Compartment sink, public	5	3.0	3.0	4.0	15.0	15.0	20.0	
	Hot Food Bar	1	1.5	0.0	1.5	1.5	0.0	1.5	
	Pre-rinse	1	1.5	1.5	2.0	1.5	1.5	2.0	
	Produce Mister	2	2.0	0.0	2.0	4.0	0.0	4.0	
								102.0	
				Kitch	en Der	ating F	actor:	75%	
								76.5	
EWC-1	Drinking fountain	1	0.3	0.0	0.3	0.3	0.0	0.3	
FPWH-1	Hose Bibb, CW	2	3.0	0.0	3.0	6.0	0.0	6.0	
FPWH-1	Hose Bibb, HW	1	0.0	3.0	3.0	0.0	3.0	3.0	
L-1	Lavatory, public	6	1.5	1.5	2.0	9.0	9.0	12.0	
5K07B	Service/Mop sink, public	1	1.5	1.5	2.0	1.5	1.5	2.0	
U-1	Urinal, 3/4" flush valve	1	5.0	0.0	5.0	5.0	0.0	5.0	
WC-1	Water closet, PressAsst Tank, public	. 2	2.0	0.0	2.0	4.0	0.0	4.0	
WC-2	Water closet, PressAsst Tank, public	2	2.0	0.0	2.0	4.0	0.0	4.0	
								36.3	

	URE UNITS		_			_		
xture ID 0	Description	QUAN	SFU	per fix	ture		SFU to	tal
de Table: 1	IPC		CW	HW	Both	CW	HW	Both
	Proofer	1	2.0	0.0	2.0	2.0	0.0	2.0
	Bakery Oven	1	2.0	0.0	2.0	2.0	0.0	2.0
	Coffee/Tea Brewer	1	0.5	0.0	0.5	0.5	0.0	0.5
	Dishwashing machine, public	1	0.0	2.0	2.0	0.0	2.0	2.0
CA04 C	Coffee/Tea Brewer	1	0.5	0.0	0.5	0.5	0.0	0.5
CA05 N	ce Machine	1	0.5	0.0	0.5	0.5	0.0	0.5
CS-1 1	1 Compartment sink, public	S	1.5	1.5	2.0	3.0	3.0	4.0
DE16 0	Dishwashing machine, public	1	0.0	2.0	2.0	0.0	2.0	2.0
DE20 S	Steamer	2	0.5	0.0	0.5	1.0	0.0	1.0
DE29 H	Hot Food Bar	1	1.5	0.0	1.5	1.5	0.0	1.5
DE38 P	Pasta/soup fill	1	1.5	1.5	2.0	1.5	1.5	2.0
HB-1 H	Hase Bibb, HW	8	0.0	3.0	3.0	0.0	24.0	24.0
HB-1 ⊢	Hose Bibb, CW	1	3.0	0.0	3.0	3.0	0.0	3.0
PRO4 I	ce Machine	1	0.5	0.0	0.5	0.5	0.0	0.5
8/O F	Hose Bibb, CW	1	3.0	0.0	3.0	3.0	0.0	3.0
SK01 H	Hand Sink	8	1.5	1.5	2.0	13.5	13.5	18.0
	1 Compartment sink, public	4	1.5	1.5	2.0	6.0	6.0	8.0
	3 Compartment sink, public	5	3.0	3.0	4.0	15.0	15.0	20.0
	Hot Food Bar	1	1.5	0.0	1.5	1.5	0.0	1.5
	Pre-rinse	1	1.5	1.5	2.0	1.5	1.5	2.0
	Produce Mister	ż	2.0	0.0	2.0	4.0	0.0	4.0
,	Todace Wister	-	2.0	0.0	20	4.0	0.0	102.0
				Kitch	en Der	ating F	actor:	75%
								76.5
EWC-1 E	Drinking fountain	1	0.3	0.0	0.3	0.3	0.0	0.3
	orinking rountain Hose Blbb. CW		3.0	0.0	3.0	6.0	0.0	6.0
	Hose Bibb, CW Hose Bibb, HW	2	0.0	3.0	3.0	9.0	3.0	3.0
	Hose Bibb, HW Lavatory, public	6	1.5	1.5	2.0	9.0	9.0	12.0
	Service/Mop sink, public Urinal, 3/4" flush valve	1	1.5	1.5	2.0 5.0	1.5	1.5	2.0
			5.0	0.0		5.0	0.0	5.0
	Water closet, PressAsst Tank, public		2.0	0.0	2.0	4.0	0.0	4.0
WC-2 \	Water closet, PressAsst Tank, public	2	2.0	0.0	2.0	4.0	0.0	4.0 36.3
								35.3
		TOTALS				90.3		

PLUMBING SYMBOLS

Mode							
CW. Coll water piping BFF Backflow preventer NTS Net to stable COM water piping BFF Below finish floor PC Published contractors Social Social Sewer piping BWF Backmare valve PM Produce missions CO Conference waster piping CO Cleaned PSV Pressure reducing valve V Vest piping CS Compartment shit OD Quick descensed CD Confessate piping CW Combination waste and vent to Receive many and the contraction of the	HWR	Hot water recirc piping	AAV	Air admittance valve	MS	Mop sink	
Cold water fibring BPF Below finish floor PC Plumbing contractor S. Sanitary Stever piping BWV Backwater valve PM Produce mixter GW Grasse waster piping CO Cleanout CD Condensate piping CW Combination wate and vent BD Roof drain GL Low-pressure gas piping DWV Pressure sources of the contraction of the contractio		Hot water piping	AFF	Above finished floor	MUA	Make-up air unii	<u>_</u>
Solitary Sewer piping		Cold water piping	BFP	Backflow preventer	NIS	Not to scale	(2)
GW Grase waste pring CO Cleanout PRV Prestate reducing valve CD Condensate pring CNV Combination waste and vent ED Roof drain ST Storm pring DN Down & RO Reverse souncis GL Low-pressure gas pring DWV Drainage waste and vent ET Reversation fraction in the Reversation of the Re		Cold water fiftered piping	BFF	Below finish floor	PC	Plumbing contractor	
V. Verl piping C. Compariment sink OD Quick descenses Compariment St. St. St. St. St. St. St. St. St. St		Sanitary Sower piping	BWV	Backwater valve	PM	Produce mister	
Condensate piping CWV Combination waste and vent ED Roof fram ST Storm piping DN Down 80 Reverse osanosis GL Low-pressure gas piping DWV Downsque waste and vent RD Roof fram MCO 2 pai gax piping EC Electrical contractor NTU Roof-top unit So Shutoff valve ET Expansion tank SDP Spraydown proportioner FE Expansion tank SDP Spraydown proportioner The dark Condensate Piping DWW Look A 200 Reverse osanosis Shutoff valve ETR Exhibiting to remain ID Trench drain The dark Condensate Piping DWW Look A 200 Reverse osanosis Spraydown proportioner The Depth of the Condensate Piping DWW Look A 200 Reverse osanosis Spraydown proportioner The Depth of the Condensate Piping DWW Look A 200 Reverse osanosis Spraydown proportioner The Depth of the Condensate Piping DWW Look A 200 Reverse osanosis Spraydown proportioner The Depth of the Condensate Piping DWW Look A 200 Reverse osanosis Spraydown proportioner The Depth of the Condensate Piping DWWW Look A 200 Reverse osanosis Spraydown proportioner The Depth of the Condensate Piping DWW Look A 200 Reverse osanosis Spraydown proportioner The Depth of the Condensate Piping DWW Look A 200 Reverse osanosis Spraydown proportioner The Depth of the Condensate Piping DWW Look A 200 Reverse osanosis Look A 200 Reverse Osanosis The Depth of the Condensate Piping DWW Look A 200 Reverse osanosis Look A 200 Reverse Osanosis The Depth of the Condensate Piping DWW Look A 200 Reverse Osanosis Look A 2		Grease waste piping	CO	Cleasout	PRV	Pressure reducing valve	
ST Storm spring DN Down 80 Reverse oamosis GL Low-pressure gas piping DWV Drisings waste and vent RF Revice pump EC Electrical contractor NIU Roothup noit ET Expansion tank SDP Spraydown proportioner FE Expansion tank SDP Spraydown proportioner FO Shuteff valve FE Expansion tank FE Expansion tank II Thermostor heat reclaim tank FE Expansion tank II Urimal FE Expansion tank III Urimal FE Expansion t		Vent piping	CS	Compartment sink	QD	Quick disconnect	Action Manual
MCG 2 psi gas piping DW Doilingse waste and vent RP Recise pamp Standard Control of the Control		Condensate piping	CWV	Combination waste and vent	RD	Roof drain	
Decomposition of the property of the propert		Storm piping	DN	Down	RO	Reverse osmosis	Mod Evans Fulls.
FI Expansion tank SIP Standard tank FIR Expansion tank TO Trunch data To Termonate tank To Termonate tan		Low-pressure gas piping	DWV	Drainage waste and vent	RP	Recirc pump	SiM 200
Pro sp EWC Electric water cooler TMV thermostatic ming valve Pro a pro per down EWC Electric water cooler TMV thermostatic ming valve Pro down EWC Electric water cooler TMV thermostatic ming valve Numbered acre Rodner FCO Floor cleanons TS Thermostate reclaim tank Pro Gas Shut off Valve FPW Floor drain UL Urinal Proor drain FS Floor with CON Unless otherwise noted If the drain FS Floor with GR Gas regulater WC Wall cannot TMV Vent their roof Proor drain FOWL Gas water heater WCO Wall cannot TMV Water having parter for Wall cannot TMV Water having a proof of Wall cannot TMV Water having a pro	MPG	2 psi gas piping	EC	Electrical contractor	RIU	Rooftop unit	WWW WAS COUNT
Fig. 19 Fig. 19 Fig. 19 Fig. 19 Fig. 20 Fig			ET	Expansion tank	SDP	Spraydown proportioner	PI-CNE W
Fig. 2 Bectice water cooler TMV thermostation in his yakee in his part of the date in his yakee in his part of the date in his yakee in his part of the date in his yakee in his part of the part of the date in his yakee in his			ETR	Existing to remain	TD	Trench drain	
Nambered note PO Poor classols Food Sachus off Valve Floor drain Floor drain Floor drain Floor sink GC General contractor VTR primer Vent thru roff Vent thru roff Vent thru roff Ext. Equipment ID GN Gas regulator Water death			EWC	Electric water cooler	TMV	Thermostatic mixing valve	
Manuscra and a Recollect PO Floor cleanools TS Thermosor heat reclaim tank Reducer PD Floor drain II Urinal Floor drain II Urinal Floor drain FFW Floor share Control Will Unit heater Unit Heat Poor and Recollect Poor and R	- :		EWH	Insta-hot water heater	IP	Trap primer	
Gas Shut off Valve FPW Floor drain UI Urinal Floor drain FS Floor with ydrant UI Unit heater Gift the drain FS Floor with CG General contractor VTR Vent thru roof Floor shik GC General contractor VTR Vent thru roof Gas regulator WC Wast gast GWU Gas water heater WCO Wall examout Balancing valve HB Hose bibb VCO Yard clean Backflow preventer HD libb drain Gas mater HE Invert elevation L Javalory Liminal			FCO	Floor cleanoui.	TS		
Ploor drain FFWH Prost-proof wall hydrant UH Unit heater Of this drain FFWH Prost shik. GC General contractor VIR Ven thirt roof Extra Squipment ID OF Gas regulator WC Walk definout Walk definout Blacking valve Blacking valve Blacking valve Blacking valve How dish CG Gas meter HO libsh drain L lavatory L lavatory L lavatory			FD	Ploor drain	U	Urinal Allina	
## Comparison of			FPWH	Frost-proof wall hydrant	UH	Unit heater	
Ploor slink GC General contractor VTR Vent thru roof Gas regulator VC Was gast Squipment ID FOR Balancing value HB Hose bibb WIA Water having a proof of Balancing value HB Hose bibb WC Varie cassible WIA Water having a proof of Yard clean WC Was gast Was cassible WIA Water having a proof of Yard clean WC Was gast Was cassible WIA Water having a proof of Yard clean WC Was gast Was cassible WIA Water having a proof of Yard clean WC Was gast Was cassible WIA Water having a proof of Yard clean WC Was gast Was gast Was gast Was gast Was cassible WIA Water having a proof of Yard clean WC Was gast Was gast Was gast Was gast Was cassible WIA Water having a proof of Yard clean WC Was gast			FS	Floor sink	UON	Unless otherwise noted	
Equipment ID GR Gas regulator WC Wall operator How binb GR Gas water hearer WC Wall operator WC Wall operator WC Wall operator Wall operator WC Wal			GC	General contractor	VTR	Vent thru roof	
Hose bibb Water hair word with the Hose bibb With the Hose bibb to the Hardinan accessible with the Hose bibb to the Hardinan accessible with the Hose bibb to the Hardinan to the Hill the drain to the Hill the drain the Hill the Hardinan the Hill the Hardinan the Hill the Hardinan the Hill the Hardinan the Hill the H			GR	Gas regulator	WC	Water Market	
Balancing valve HB Hose bible VCO Vard clean Backflow preventer HD ligh drain L lawlery Lawlery Lawlery			GWH	Gas water heater	WCO	Walt cleanout	
Backflow preventer HD lish drain Gas meter L Lavatory			H-	Handicap accessible	WHA	Water haming arreling	
G Cas meter in invertexvalues L layelery			HB	Hose bibb	YCO	Yard clean	
G Cas meter L Inverteuraling L Inverteuraling L Inverteuraling	Ø _{rso}	Backflow preventer	HD	Hub drain			(4.4.M)
Linion	(a)		115	Invertelevation			
	٩		L	Lavatory /			A-3.
Gas regulator	ili.	Union			/		
	9	Gas regulator		· ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' ' '	<i>III</i> II.		
						Trad	
			,		W		

DRAINAGE FIXTURE UNIT CALCULATIONS

ltem	Fixture	Quan.	DFU Each	DFU Total
CS-1	1 Compartment Sink	2	2	4
EWC-1	Drinking Fountain	1	0.5	0.5
FD-1	3" Emergency Hoor Drain	2	0	0
FD-2	4" Emergency Floor Drain	2	0	0
FS-1	3" Floor Sink	4	5	20
HD-1	3" Hub Drain"	13	0.5	6.5
HD-2	3' Hub Drain*	29	0.5	14.5
L-I	Exvatory	6	1	6
SKOI	Hand Sink	2	1	2
10-1	4" Treach Drain	1	6	6
U-1	Urinal	1	2	2
WC-1	Tank Type Water Closet	2	4	S
WC-2	Tank Type Water Closet	2	4	8

* Case drains serve refrigerated cases and boxes with intermittent

Item	Pixture	Quan.	DFU Exch	DFU To
FD-2	3" Floor Drain	1.0	5	11111
FS-1	3" Fleor Sink	14	5	7.784
HD-3	3" Hab Drain	1	5 ///	5
SKOI	Hand Sink	7		, 7
SK07.B	Mop Smk	1	24///	Mm. 2
TD-1	4" Trench Drain	6	6 3	
TOTAL				

		*4//	<i>m</i> .												
JD.	MER	MODEL V	DESCRIPTION &	<i>''''</i>	MBH	KW	VOLTS/PH	GPH	Gallons	DIAM	HT	HW	CW	NOTES	
GWH-1	M/Smit	h BTH-300	DESCRIPTION Gas Water Heater	K	300		120/1	349	130	34"	76"	1-1/2"	1-4/2"	1, 3-6	
ET-1	fred tred	ST-25V		1					10	15"	19"		1"	2	
EWH-1	E g eax	EX1608TC ML	Hot Water	1		1.7	208/1					1/2"	1/2"	7	
//	- W														

PUMP SCHEDULE

10	MFR	MODEL	DESCRIPTION	OTY	MOTORS	HP/W/A	VOLTS/PH	RPM	GPM	HEAD	LG - W - HT	NOTES
RP	Taco	011	Hot Water Recirc Pump	1	1	1/8 hp	115/1	3250	6.7	20"	8"x6"x7"	1,2,3

- 2) Pump shall be provided with Aquastat controls to maintain minimum 130 deg F water temperature during occupied hours.

 3) Provide and install check valve after pump before temperature gauge.

Falle Allowance Gas System For	e (- 50% of many distance at Design tength (IIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIIII	e): 		125 400
	ressure: I psi, and gas at 0.6 Sp			2 psi
10 //	Description	Quantity	MBH Each	MBH Yotal
BAOS	Bakery Oven	1	175	175
MIMUS .	Charbroiler	1	80	RG
▼DE12	Fryer	1	90	90
DE21	Convection Oven	2	54	108
DE22	Pizza Oven	2	130	260
DE24	Range	1	227	227
DE38	Pasta Cooker	1	60	60
DE49	Griddia	1	90	96
GWB-1	Water Heater	1	340	300
MUA-1	Make-Up Air Unit	1	177	177
MUA-2	Make-Up Air Unit	1	5.3	53
MUA-3	Make-Up Air Unit	1	5.5	5.5
ETR RTU-1	Ranftop Unit	1	400	400
RIU-2	Roofton Unit	1	115	115
RTU-3	Roottop Unit	1	7.2	72
RTO-4	Rooftop Unit	1	7.2	72

GREASE INTERCEPTOR CALCULATION

*Volume Required = (# Seats) x (Gal Waste per Seat) x (Op Hours/12) x (Loading Factor)

ALTERNATE PRICING SUBMISSION NOTES For domestic water piping above grade, contractor's base bid shall provide for use of CPVC (except as otherwise as indicated in General Plumbing Note #24 this sheet). Contractor shall also include alternate like item price for new of PEX in like our CPVC. Contractor shall except we enterticism manager and AIII, prior to purchase and order, and provide PEX only if discreted by Lucky's construction manager and only if allow by the AIII of the prior to purchase and order, and provide PEX only if discreted by Lucky's construction manager and only if

(Main Highway)

Total MBH

Number of Seats: Waste Per Seat (Gal):

Loading Factor: Operating Hours: *Volume Required (Gal):

GAS REGULATOR SCHEDULE

Regulator ID	Equipment Serviced	Gas Load MBH	Regulator Manufacturer	Regulator Model Number	Regulator Size	Inlet Pressure	Outlet Pressure	Natural Gas / LP	Longes
GR-A	Water Heater	300	Maxitrol	325-5L-B	1/2" x 1/2"	1-2 psi	7" WC	NG	50"
GR-B	RTU-2	115	Maxitrol	325-3L-B	1/2" x 1/2"	1-2 psi	7" WC	NG	10"
GR-C	Make-Up Air Unit 3	55	Maxitrol	325-3L-B	1/2" x 1/2"	1-2 osi	7" WC	NG	10"
GR-D	Cookline	595	Maxitrol	325-7AL-B	1-1/2" x1-1/2"	1-2 nsi	7" WC	NG	50"
GR-E	Make-Up Air Unit 1	177	Maxitrol	325-5L-B	1/2" x 1/2"	1-2 psi	7" WC	NG	101
GR-F	Pasta Cooker	60	Maxitrol	325-3L-B	1/2" x 1/2"	1-2 osi	7" WC	NG	10"
GR-G	Make-Up Air Unit 2	53	Maxitrol	325-3L-B	1/2" x 1/2"	1-2 psi	7" WC	NG	10"
GR-H	Pizza Oven	260	Maxitrol	325-5L-B	1/2" x 1/2"	1-2 psi	7" WC	NG	50"
GR-I	Bakery Oven	175	Maxitrol	325-5L-B	1/2" x 1/2"	1-2 psi	7" WC	NG	50"
GR-J	BTU-3	72	Maxitrol	325-3L-B	1/2" x 1/2"	1-2 psi	7" WC	NG	10"
GR-K	ETR RTU-1	400	Maxitrol	325-5L-B	1/2" x 1/2"	1-2 osi	7" WC	NG	10"
GR-L	RTU-4	72	Maxitrol	325-31-18	1/2" x 1/2"	1-2 psi	7" WC	NG	10"

- Regulators shall be installed as close as possible to equipment and drops thu root.

 All regulator sheet be installed as close as possible to equipment and drops thu root.

 All regulator sizes shall correspond with the gas piping sizes as indicated on the drawings and gas regulator schedule.

 Begulators destrict to the building shall be provided with manufacturer's wasterproof verticap and inhow Technology

 Conditional required appring senemen with manufacturer's authorized representative prior to purchase and order.
- 5) Regulators interior to the building shall be provided with manufacturer's associated vent limiting device.
 6) Coordinate all equipment line regulator installation elevations with Lucky's construction manager, prior to construction, and provide as directed.

HEAT TRACE SCHEDULE

Condensate piping in frecest, cut noun and meat cooker shall be heat traced with Chromadas SRF 120 voll. 5 watts per foot, self-regulating best trace cable. Cable shall be true fitted by one or side of pipe. Cable shall be wrapped at minimum 1-foot intervels with fitted gates, the cable and floreglass tape, Cable and floreglass tape shall be covered with 1-12 bears Coming Statistical with seader seams. Externor folial installation at the water seams. Externor folial installation at the water shall be considered with 1-12 bears watering below affixed every 10 feet per MSC requirements. Provide thermostia, and locate it so that it measures exterior pipe temperature at coldest point on pipe. Werrist all tractors shall perform all innecessary cable connections to determine shape. Verity all required run lengths in field, prior to construction, and adjust if needed. For bid purposes, assume 100 linear feet of cable shall be required.

P101

SYMBOLS AND SCHED PERMIT ISSUE APRIL 27, 2018 BID ISSUE 04/27/18

6420 NAPLES BLVD. NAPLES, FLA. 34109