1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH ALL CURRENT STATE AND LOCAL CODES AND LAWS.
2. SOIL AND WASTE PIPE SHALL SLOPE 2% MINIMUM, UNLESS OTHERWISE NOTED OR REQUIRED BY CODE.
3. ALL DRAWN WATER AND GAS LINES SHALL BE KEPT TIGHT TO THE UNDERSIDE OF EQUIPMENT AND SECURED IN PLACE.
4. GENERAL CONTRACTOR SHALL VERIFY THE LOCATION OF THE SANITARY SEWER ON THE SITE PLAN AND SHALL REVISE THE SEWER SYSTEM AS REQUIRED.
5. PROVIDE TRAP PRIMERS FOR FLOOR DRAINS IN RESTROOMS, WHERE REQUIRED BY CODES. PROVIDE DEEP SEAL TRAPS FOR FLOOR DRAINS WITHOUT TRAP PRIMERS.
6. 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.
7. 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.
8. ALL PLUMBING FIXTURE VENTS SHALL TERMINATE A MINIMUM OF 12 INCHES FROM ANY VERTICAL SURFACE AND 10 FEET FROM ANY OUTSIDE AIR INTAKE.
9. PROVIDE GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.
10. INSTALL SHUT-OFF VALVES ON ALL HOT AND COLD WATER LINES TO FIXTURE OR APPLIANCE. ALL EXPOSED WATER AND WASTE LINES TO BE CHROME PLATED.
11. 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.
12. ALL VALVES, UNIONS, ETC. SHALL BE SAME SIZE AS PIPE UNLESS OTHERWISE INDICATED ON DRAWINGS.
13. REFER TO KITCHEN EQUIPMENT DRAWINGS FOR PLUMBING ROUGH-IN SCHEDULE AND FOR ADDITIONAL WORK TO BE FURNISHED AND INSTALLED BY CONTRACTOR. ALL ROUGH-IN PLUMBING AND FINAL CONNECTIONS TO KITCHEN EQUIPMENT SHALL BE MADE BY THE CONTRACTOR UNLESS OTHERWISE NOTED.
14. REFER TO MECHANICAL SHEETS FOR HVAC AND HOOD PLUMBING REQUIREMENTS.
15. ALL GAS LINES SHALL BE SUPPORTED SEE SPECS.
16. ALL FLOOR SINKS AND FLOOR DRAINS IN TRAFFIC AREAS SHALL BE INSTALLED FLUSH TO FLOOR SURFACE.
17. PROVIDE WATER HAMMER ARRESTOR FOR ALL HAND SINKS AND URINAL WATER LINES.
18. PROVIDE AIR GAPS FOR INDIRECT DRAINS AS REQUIRED BY CODE. AIR GAP SHALL BE MINIMUM 2 TIMES THE DIAMETER OF THE INDIRECT DRAIN.
19. 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.
20. COORDINATE INSTALLATION OF PLUMBING WORK WITH ALL OTHER TRADES SO AS TO AVOID UNNECESSARY DELAY OR INTERFERENCES. CONTRACTOR SHALL REVIEW ARCHITECTURAL AND EQUIPMENT SHEETS.
21. FURNISH AND 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.
22. PROVIDE CONDENSATE DRAIN FROM A/C UNITS TO APPROVED DRAIN, GAS PIPING TO UNITS AND ALL FINAL CONNECTIONS REQUIRED FOR OPERATION.
23. 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 OF THE CONTRACTOR TO VERIFY THESE DIMENSIONS SHALL PLACE THE RESPONSIBILITY FOR ANY SUBSEQUENT RELOCATION DIRECTLY UPON THE CONTRACTOR.
24. ALL WATER LINES SHALL BE RUN OVERHEAD UNLESS OTHERWISE NOTED.
25. ALL WATER LINES SHALL BE FLUSHED PRIOR TO CONNECTING ANY FIXTURES OR EQUIPMENT.
26. PROVIDE ESCUTCHEON PLATES AND SILICONE SEALANT AT ALL UTILITY PENETRATIONS INTO WALLS, CEILINGS, AND FLOORS. DO NOT USE CAULKS OR EXPANDING FOAMS FOR SEALANT.
27. CPVC SCHEDULE 40 WASTE PIPE CAN BE SUBSTITUTED FOR BLACK IRON WASTE PIPE WHERE ALLOWED BY LOCAL MUNICIPALITIES.
28. PEX PLASTIC TUBING AND FITTING CAN BE USED AS AN OPTION, ALL INSTALLATION SHALL BE INSTALLED IN ACCORDANCE WITH THE MANUFACTURERS INSTALLATION INSTRUCTIONS AND SHALL COMPLY WITH ALL CURRENT STATE AND LOCAL CODES AND LAWS.

GENERAL NOTES | E

PLUMBING SYMBOLS LEGEND

SYMBOL	ABBREVIATION	DISCRIPTION
CW	CW	DOMESTIC COLD WATER
FW	FW	FILTERED WATER
HW	HW	DOMESTIC HOT WATER - 110°F
HW	HW	DOMESTIC HOT WATER - 140°F
HWR	HWR	DOMESTIC HOT WATER RETURN - 110°F
HWR	HWR	DOMESTIC HOT WATER RETURN - 140°F
V	V	SANITARY VENT PIPING
GV	GV	GREASE VENT PIPING
SS	SS	SANITARY SEWER PIPING
GW	GW	GREASE PIPING
SD	SD	STORM DRAIN PIPING
CD	CD	CONDENSATE DISCHARGE PIPING - CD
G	G	NATURAL GAS PIPING - G
TW	TW	DOMESTIC HOT WATER TEMPERED
	POC	POINT OF CONNECTION
		PLUMBING NOTE
#		PLUMBING FIXTURE DESIGNATION
###		KITCHEN EQUIP. REFER TO KITCHEN EQUIP. DWGS
	FD	FLOOR DRAIN
	HD	HUB DRAIN
	FS	FLOOR SINK
	FCO	FLOOR CLEAN OUT
	WCO	WALL CLEAN OUT
	ECO	EXTERIOR CLEAN OUT
	BV	BALL VALVE
	CV	CHECK VALVE
	BFP	BACKFLOW PREVENTER
	SV	ANSUL GAS SOLENOID VALVE
	GC	GAS COCK SHUT OFF VALVE
	SV	SHUT OFF GATE VALVE
	FPWH	FROST PROOF WALL HYDRANT
	T & P	TEMPERATURE AND PRESSURE RELIEF VALVE
	U	UNION
	TMV	TEMPERATURE MIXING VALVE
	VTR	VENT THRU ROOF
	AFF	ABOVE FINISHED FLOOR
	RD	ROOF DRAIN
	RL	ROOF LEADER
	OFD	OVERFLOW DRAIN
	CI	CAST IRON PIPE
	(E)	EXISTING
	(N)	NEW
	TP	TRAP PRIMER
	WHA	WATER HAMMER ARRESTER
	FU	FIXTURE UNIT

PLUMBING LEGEND | C

GREASE INTERCEPTOR SIZING

GREASE INTERCEPTOR WAS SIZED USING THE MANNING FORMULA:
[(DFU) x (R)] x (T) = I

I = INTERCEPTOR SIZE IN GALLONS
DFU = DRAINAGE FIXTURE UNIT
R = RATINGS (FACILITY)
T = RETENTION TIME

FLOOR DRAIN	-	4	x	2.0	=	8.0 DFU
FLOOR SINK	-	4	x	2.0	=	8.0 DFU
MOP SINK	-	1	x	5.0	=	5.0 DFU
						21.0 DFU (TOTAL)

21.0 DFU x 2 = 500 MINUTES = 1260 GALLONS

CONTRACTOR SHALL INSTALL A MINIMUM 1500 GALLON GREASE INTERCEPTOR APPROVED BY MECKLENBURG COUNTY HEALTH DEPARTMENT (336) 570-6367. INSTALLATION SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE NORTH CAROLINA PLUMBING CODE, AND SHALL BE LOCATED AS TO BE READILY AND EASILY ACCESSIBLE FOR EASY CLEANING AND INSPECTION.

GREASE INTERCEPTOR SIZING | F

SHOP DRAWING SUBMITTALS:

IF SHOP DRAWINGS ARE SUBMITTED TO ENGINEER OF RECORD FOR ANY AND ALL MATERIALS REQUIRING REVIEW PRIOR TO PURCHASING, A MINIMUM OF ONE BUSINESS WEEK SHALL BE ALLOWED FOR ENGINEER TO REVIEW SUBMITTALS. EXPEDITED REVIEW OF SHOP DRAWINGS WILL ONLY BE CONSIDERED IN EXTREME CASES AND WILL BE CONSIDERED ADDED COST TO THE PROJECT FOR WHICH THE CONTRACTOR WILL BE RESPONSIBLE FOR. IF EXPEDITED REVIEW IS REQUIRED, THE CONTRACTOR SHALL PROVIDE NOTICE TO ENGINEER IN WRITING AS AN ATTACHMENT TO THE SUBMITTAL.

SHOP DRAWING SUBMITTALS | B

ITEM	FIXTURE	SOIL OR WASTE	VENT	COLD WATER	HOT WATER	TEMP'D WATER	DESCRIPTION	MANUFACTURER / MODEL NUMBER
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
FS 1	FLOOR SINK	4"	2"	--	--	--	LIGHT DUTY, ACID RESISTANCE. WHITE PVC FLOOR SINK W/ 12" SQUARE WHITE PVC HALF GRATE AND STAINLESS STEEL DEBRIS BUCKET WITH LIFTING HANDLE.	SIOUX CHIEF / MODEL: 861-4PNDW
FS 2	FLOOR SINK	4"	2"	--	--	--	PVC 12" SQUARE FLOOR SINK, 6" DEEP, WITH ALUMINUM DOME STRAINER AND NICKEL BRONZE HINGED TOP.	SIOUX / MODEL: 861-4 [illegible]D
FD 1	FLOOR DRAIN (3")	3"	2"	--	--	--	LIGHT DUTY ADJUSTABLE PVC WITH THREADED ADAPTOR AND 5" DIAMETER NICKEL BRONZE RING AND FASTENED GRATE	ZURAM / MODEL: FD-2240
								SIOUX CHIEF 842
								OATEY 72000
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
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
HB 1	HOSE BIBB	--	--	3/4"	--	--	NON-FREEZE WALL HYDRANT WITH INTEGRAL VACUUM BREAKER, BRONZE HOUSING AND NICKEL BRONZE BOX.	JOSAM / MODEL: 71000
								WADE / MODEL: 8600L
								ZURN / MODEL: Z-1300
WC 1	WATER CLOSET ADA (MAN)	4"	2"	1"	--	--	WHITE VITREOUS CHINA FLOOR MOUNT TYPE, ELONGATED BOWL ADA COMPLIANT, 1.6 GPF, WITH OPEN FRONT SEAT LID COVER, CLOSE-RITE #95 OR EQUAL, FLUSH VALVE: SHALL BE HANDS FREE AUTO FLUSH SLOAN ROYAL #111 1.6 GPF OR EQUAL.	AM. STD. "MADERA" / MODEL: 3043.001
								KOHLER
								CRANE
L 1	LAVATORY (MAN)	1-1/4"	1-1/2"	--	--	1/2"	WHITE VITREOUS CHINA WALL HUNG WITH CONCEALED ARMS SUPPORT, 4" CENTERS, WITH INTEGRAL BACKSPLASH, ADA ACCESSIBLE. FLAT GRID STRAINER. BRAIDED WATER LINES AND ANGLE STOP, AND *SLOAN MODEL NO. SF350 SENSOR FAUCET WITH ADJUSTABLE INFRARED SENSOR RANGE, FILTER, SOLENOID VALVE WITH SERVICEABLE STRAINER FILTER, BATTERY POWERED AND 6 VCD FITTING IN, AERATOR SPRAY HEAD, 4" ON CENTER, ADA COMPLIANT. PROVIDE TRUE BRASS MODEL # 1006-Z, LAVATORY GUARD, ADA COMPLIANT, P-TRAP COVER AND (2) ANGLE SUPPLY VALVE COVERS.	A.S. COMRADE/ MODEL: 0124.131
								CRANE *HARWICH* / MODEL: 1412V
S 1	HAND SINK (MAN)	1-1/2"	1-1/2"	--	--	1/2"	S-1: STAINLESS STEEL HAND SINK, WALL HUNG, INCLUDES A 6" GOOSENECK STAINLESS FAUCET, BRAIDED WATER LINES AND 0.5 GPM AERATOR, KNEE OPERATOR VALVE.	--
								--
								--
S 2	MOP SINK	3"	2"	1/2"	1/2"		MOP SINK: AERO - 3MP-2121-6 W/ 48" HIGH S.S LEFT SIDE AND BACK-SPLASH. FURNISHED BY OWNER, INSTALLED BY GC. FAUCET: T&S #B2465, WITH VACUUM BREAKER, FURNISHED BY OWNER, INSTALLED BY GC.	--
								--
								--
S 3	SOAK/COMP. SINK	INDIRECT			1/2"	1/2"	--	SINK, FAUCET & DRAIN, GEN IV POWER SOAK STANDARD, GEN III IS AN OPTION FOR FRANCHISES
								--
								--
S 4	PREP SINK	INDIRECT		--	1/2"	1/2"	--	SINK, FAUCET AND DRAIN
								--
								--
								--
GI 1	GREASE INTERCEPTOR	4"	--	--	--	--	JENSEN PRECAST 1,500 GALLON GREASE INTERCEPTOR WITH SAMPLE BOX FINAL SIZE TO BE DETERMINED BY LOCAL BUILDING AUTHORITY	--
								--
								--
MV 1	MIXING VALVE (MAN)	--	--	1/2"	1/2"	--	THERMOSTATIC, 125 PSI6, 200VF BRONZE BODY, STAINLESS STEEL PISTON LINER, CHECK VALVES SIZE PER PIPE CONNECTIONS.	POWERS SERIES LF495
								LAWLER SERIES 310
								LEONARD SERIES 170
ET 1	EXPANSION TANK	--	--	3/4"	--	--	EXPANSION TANK, STEEL, EXPANSION MEMBRANE 150 PSI, 160° F, 12 GALLON CAPACITY.	WATTS SERIES DET
								AMTROL SERIES ST
								WILKINS SERIES WXTP
BFP 1	BACKFLOW PREVENTOR	--	--	VERIFY	--	--	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
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
RO 1	REVERSE OSMOSIS	INDIRECT	--	1/2"	--	--	REVERSE OSMOSIS FILTER SYSTEM BY OWNER SEE TO DETAIL 9/P6.0	WADE / SHOKSTOP
								JOSAM / MODEL: 75000
								ZURN / SHOKTROL
HD 1	HUB DRAIN	3"	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
WH 1	WATER HEATER	--	--	1-1/2"	1-1/2"	--	GAS FIRED WATER HEATER, 96% THERMAL EFF., 300,000 BTUH INPUT, 119 GAL. STORAGE TANK, 388 GPH @ 90 DEG. RISE REC. RATE, 4" PVC FLUE & AIR INTAKE; ASME RTD TEMP. & PRESS. REL. VALVE, ELECTRONIC IGNITION SYSTEM AND ELETRONIC CONTROLS. Call 800-477-1953 Option #1 for National Account Price & Service	AO SMITH / BTH 300
								STATE / SUF 119 300 NE
BFP 2	BACKFLOW PREVENTOR (EQUIPMENT)	--	--	VERIFY	--	--	DUAL CHECK VALVES - BRONZE BODY, STAINLESS STEEL SPRINGS, SILICONE DISC, PLASTIC DISC MODULES.	WATTS / MODEL: SERIES LF7R
								WILKINS - EQUAL
								FEBCO - EQUAL
TP 1	TRAP PRIMER	--	--	1/2"	--	--	BRASS BODY, 1/2" NPT INLET AND OUTLET, VIEW HOLES/VACUUM BREAKER PORTS, PROVIDE ACCESS PANEL FOR VALVES INSTALLED INSIDE WALLS, INSTALL A MINIMUM OF 12" ABOVE FINISHED FLOOR.	PPP MODEL PR-500
								PPP MODEL DU-2
								SIOUX CHIEF
RD 1	ROOF DRAIN	4"	--	--	--	--		TECH SPECIALITIES MODEL T-0074
OFD 1	OVERFLOW ROOF DRAIN	4"	--	--	--	--		TECH SPECIALITIES MODEL T-0074
OFN 1	OVERFLOW NOZZLE	4"	--	--	--	--	NICKEL BRONZE FINISH	WATTS MODEL RD-940
RH 1	ROOF HYDRANT	--	--	3/4"	--	--		WOODFORD MODEL RHY2-MS

PLUMBING SCHEDULE | A

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PLAN VERSION: DECEMBER 2016
SITE NUMBER: 311687
STORE NUMBER: 436563

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3923 SHAKEDOWN ST.
CHARLOTTE, NC

EXPLORER LITE
MEDIUM54

PLUMBING SCHEDULES AND NOTES

P1.0