

PLUMBING FIXTURE SCHEDULE			
MARK	FIXTURE	MANUFACTURER MODEL	DESCRIPTION
L-1	UNDER MOUNT LAVATORY RESIDENTS	KOHLER K-2297	UNDER MOUNT LAVATORY, 22x18 RECTANGULAR, VITREOUS CHINA, FRONT OVERFLOW FAUCET, MOEN TS6720, 8" CENTER SET, COUNTER TOP MOUNT, ADA COMPLIANT SUPPLIES, MCGUIRE 170LK, CHROME PLATED BRASS ANGLE VALVE, LOOSE KEY, CHROME PLATED COPPER RISER, P-TRAP: MCGUIRE 88902 CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, 17 GAUGE, 1-1/4" INLET, 1-1/2" OUTLET, BRASS SLP NUTS, CHROME ESCUTCHEON PLATE, PROVIDE A 1-1/4" GRID STRAINER, MCGUIRE MODEL 149.
L-2	UNDER MOUNT LAVATORY PUBLIC	KOHLER K-2890-8U	UNDER MOUNT LAVATORY, 16x12 RECTANGULAR, VITREOUS CHINA, FRONT OVERFLOW FAUCET, MOEN TS6720, 8" CENTER SET, COUNTER TOP MOUNT, ADA COMPLIANT SUPPLIES, MCGUIRE 170LK, CHROME PLATED BRASS ANGLE VALVE, LOOSE KEY, CHROME PLATED COPPER RISER, P-TRAP: MCGUIRE 88902 CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, 17 GAUGE, 1-1/4" INLET, 1-1/2" OUTLET, BRASS SLP NUTS, CHROME ESCUTCHEON PLATE, PROVIDE A 1-1/4" GRID STRAINER, MCGUIRE MODEL 149.
WC-1	WATER CLOSET	KOHLER K-3814	FLOOR MOUNTED, ELONGATED BOWL, TRIP LEVEL FLUSH, 1.28 GAL. PER FLUSH, 16-1/2" HIGH RM, ADA COMPLIANT SEAT, OLSONITE 1100C, EQUALS BY BEMIS, CENTOGO, OR CHURCH
WC-2	WATER CLOSET HANDICAPPED	KOHLER K-9657	FLOOR MOUNTED, ELONGATED BOWL, FLOUSHOMETER BOWL 1.28 GAL. PER FLUSH, 16-1/2" HIGH RM, 1-1/2" TOP SPIN SEAT, OLSONITE 1100C, EQUALS BY BEMIS, CENTOGO, OR CHURCH FLUSH VALVE, KOHLER K-13517-CP, 1.28 G.P.F.
S-1	UNDER MOUNT SINK RESIDENTS	KOHLER K-3325 HCF-NA	UNDER MOUNT LAVATORY, 23x17 5/8" RECTANGULAR, STAINLESS STEEL FAUCET, MOEN TS6720, 8" CENTER SET, COUNTER TOP MOUNT, ADA COMPLIANT SUPPLIES, MCGUIRE 170LK, CHROME PLATED BRASS ANGLE VALVE, LOOSE KEY, CHROME PLATED COPPER RISER, P-TRAP: MCGUIRE 88902 CHROME PLATED CAST BRASS P-TRAP WITH CLEANOUT, 17 GAUGE, 1-1/4" INLET, 1-1/2" OUTLET, BRASS SLP NUTS, CHROME ESCUTCHEON PLATE, PROVIDE A 1-1/4" GRID STRAINER, MCGUIRE MODEL 149.
SH-1	SHOWER	STERLING #72280106	ENSEMBLE 48"x36" WALL SURROUND, WHITE, PROVIDE MOEN #S6340EP RAINSHOWER HEAD, MOEN P051 TEMP VALVE, TS2203, MOEN #10154 SHOWER ARM, MOEN #14752 SHOWER ARM FLANGE.
SH-2	BATH TUB/SHOWER (ADA)	STERLING #71240115	ENSEMBLE 36"x60" OVAL TUB & WALL SURROUND, WHITE, MOEN #S6340EP RAINSHOWER HEAD, MOEN P051 TEMP VALVE, TS2203, MOEN #10154 SHOWER ARM, MOEN #14752 SHOWER ARM FLANGE.
MS-1	MOP SINK	FIAT PLUMBING MSB 2424	FLOOR MOUNTED 24x24x10", MOLDED STONE SERVICE BASIN, #830-AA CHROME PLATE FAUCET W/VACUUM BREAKER & PAL HOOK, WALL BRACE, HOSE BRACKET, MOP BRACKET, PROVIDE SS BUMPER & WALL GUARDS, SS DRAIN & STRAINER
EWC-1	ELECTRIC WATER COOLER ADA	ELKAY EZ5TLBC	SUPPLIES: MCGUIRE 170LK, CHROME PLATED BRASS ANGLE VALVE, LOOSE KEY, BI-LEVEL ADA NON FILTERED WATER COOLER, P-TRAP: MCGUIRE 88902 1-1/4" x 1-1/2" STOP, MCGUIRE 175 SURFACE MOUNTED, SPLIT LEVEL STEEL CABINET, ENAMEL FINISH, REMARKS: COORDINATE FINISH WITH ARCHITECT
EWC	ELECTRIC WATER COOLER ADA	ELKAY LZ5BSF	SUPPLIES: MCGUIRE 170LK, CHROME PLATED BRASS ANGLE VALVE, LOOSE KEY, SINGLE LEVEL ADA NON FILTERED WATER COOLER, P-TRAP: MCGUIRE 88902 1-1/4" x 1-1/2" STOP, MCGUIRE 175 SURFACE MOUNTED, SPLIT LEVEL STEEL CABINET, ENAMEL FINISH, REMARKS: COORDINATE FINISH WITH ARCHITECT
WHA	WATER HAMMER ARRESTOR	SIoux CHIEF HYDRA-RESTER	TYPE L COPPER CHAMBER, THREE-ARMED CONNECTION, LUBRICATED PISTON WITH O-RINGS, SIZED AND LOCATED IN ACCORDANCE WITH PLUMBING DETAILS AND MANUFACTURER'S INSTRUCTIONS, APPROVED EQUALS: MIFAB, PRECISION PLUMBING PRODUCTS, WADE, WILKINS
GI	GREASE INTERCEPTOR	JR SMITH 8120	POI APPROVED, 20 GPM WITH 40 POUND GREASE CAPACITY, FLOOR MOUNTED, FLOW CONTROL FITTING, UNILOCK COVER, STEEL INTERCEPTOR WITH GRAY DUCO COATING INSIDE AND OUTSIDE, APPROVED EQUALS: JOSAM, ZURN, MIFAB
TMV	THERMOSTATIC MIXING VALVE	ACORN MV17-2	MASTER MIXING VALVE, HIGH/LOW VALVE, ASSE 1017, LEAD FREE SOLID DZR BRASS BODY, 45 GPM FLOW RATE, MIN FLOW RATE 1 GPM
TP	TRAP SEAL PRIMER	JOSAM 88300	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, APPROVED EQUALS: MIFAB, PRECISION PLUMBING PRODUCTS, SIoux CHIEF
DCVA	DOUBLE CHECK VALVE ASSEMBLY	WATTS SERIES LF007	BRONZE BODY, REPLACEABLE RUBBER DISCS, REPLACEABLE SEATS, PROVIDE WITH QUARTER TURN, FULL PORT BALL VALVES AND TEST COCKS, APPROVED EQUALS: AMES, FEBCO, WILKINS
FPWH	FREEZE PROOF WALL HYDRANT	WOODFORD MODEL B6SP	CHROME PLATED BRASS BODY, WITH ANTI-SIPHON VACUUM BREAKER, FREEZE PROOF, LOOSE TEE KEY ACCESSORIES, CHROME PLATED VALVE BOX WITH HINGED DOOR, CYLINDER LOCK, APPROVED EQUALS: JAY R SMITH, JOSAM, MIFAB, WADE, ZURN
WD	GUEST WASHING MACHINE	BY OTHERS	PROVIDE DATEY CENTRO II WALL BOX, 1/4 TURN STOPS, KNOCK OUT DRAIN CAP
	COMMERCIAL WASHING MACHINE	BY OTHERS	HARD PIPED WITH SHUT OFF VALVES, WATER SUPPLY TO BE 165°F INDIRECT WASTE INTO TD-1 BEHIND WASHERS.
3 COMP	3 COMPARTMENT SINK	BY OTHERS	3 COMPARTMENT WASH SINK, STAINLESS STEEL, 3/4" HW & CW SUPPLY SUPPLIES: MCGUIRE 170LK, CHROME PLATED BRASS ANGLE VALVE, LOOSE KEY, CHROME PLATED COPPER RISER, ROUTE WASTE PIPING TO GI.
2 COMP	2 COMPARTMENT SINK	BY OTHERS	2 COMPARTMENT WASH SINK, STAINLESS STEEL, 3/4" HW & CW SUPPLY SUPPLIES: MCGUIRE 170LK, CHROME PLATED BRASS ANGLE VALVE, LOOSE KEY, CHROME PLATED COPPER RISER, ROUTE WASTE PIPING TO GI.

CLEANOUT SCHEDULE						
MARK	DUTY TYPE	MANUFACTURER	MODEL	CLEANOUT TYPE	DUTY LOCATION	
FOO	FLOOR	ZURN	ZN-149	HEAVY DUTY C I TOP BRONZE PLUG	4"	GENERAL
WCO	WALL	ZURN	Z148	CAST BRONZE W/STAIN STEEL COVER	4"	GENERAL

NOTES:
A. APPROVED EQUALS: JR SMITH, JOSAM
*ALL EQUIPMENT FURNISHED AND INSTALLED BY PLUMBING CONTRACTOR

DRAIN SCHEDULE							
MARK	DUTY TYPE	MANUFACTURER	MODEL	DRAIN GRATE TYPE	DRAIN BODY SIZE	P-TRAP PIPE SIZE	NOTES
FD-1	FLOOR	ZURN	ZN 415B P 1/2"	5" ROUND NICKEL BRONZE	3"	3"	A
FD-2	FLOOR	ZURN	ZN 415B P 1/2"	8" ROUND NICKEL BRONZE	3"	3"	A
HD-1	HUB DRAIN	ZURN	ZN 415I U P 1/2"	8" ROUND NICKEL BRONZE	3"	3"	A, C
TD-1	TROUGH	ZURN	2893	12"x72"	4"	4"	A, D
POOL	TRENCH	AQUAMASTER	SDD-WHITE	1.34" WIDE	3"	3"	
RD-1	ROOF	ZURN	ZC-100	CL-DOME STRAINER	4"	-	B
OD-1	OVER FLOW	ZURN	ZC-100-W3	CL-DOME STRAINER	4"	-	B
RDN	ROOF	ZURN	Z-199	NOZZLE	4"	-	B

NOTES:
A. PROVIDE ALL FLOOR DRAINS WITH TRAP PRIMERS & DEEP SEAL TRAPS.
B. PROVIDE ALL HORIZONTAL PIPING WITH 2" THICK FIBERGLASS INSULATION WITH ASJ JACKET ABOVE CEILING.
C. PROVIDE WITH 2 INCH HIGH EXTENSION ADAPTER.
D. PROVIDE 2" THICK FIBERGLASS INSULATION FOR FIRST 10'-0"

GAS FIRED WATER HEATER SCHEDULE								
MARK	LOCATION	MANUFACTURER	MODEL	OUTLET TEMPERATURE	INPUT (BTUH)	FLOW RATE (115°F RISE)	ELECTRICAL VPH/PHZ	NOTES
WH-1	MECH ROOM	AERCO	NN1060s	165°F	1,468,209	26 GPM	1201/60	A THRU I
WH-2	MECH ROOM	AERCO	NN1060s	165°F	1,468,209	26 GPM	1201/60	A THRU I
WH-3	MECH ROOM	AERCO	NN1060s	165°F	1,468,209	26 GPM	1201/60	A THRU I

NOTES:
A. EQUIPMENT AND ALL ASSOCIATED WATER SIDE PIPING, VALVES, AND ACCESSORIES SHALL BE PROVIDED BY PLUMBING CONTRACTOR.
B. EQUIPMENT SHALL MEET ASHRAE 90.1 STANDARDS FOR THERMAL EFFICIENCY AND STANDBY LOSS.
C. FURNISH POWERED SIEVE WALL VENT WITH DUCTED INTAKE, INSTALLATION BY MECHANICAL CONTRACTOR.
D. PROVIDE FACTORY INSTALLED TEMPERATURE AND PRESSURE SAFETY RELIEF VALVE (TAP VALVE).
E. PLUMBING CONTRACTOR SHALL PROVIDE HARD COPPER DRAIN LINE FROM T & P VALVE DOWN TO AN APPROVED RECEPTOR WITH AIR GAP, PIPING TO BE FULL SIZE OF 1/4" VALVE DISCHARGE CONNECTION.
F. REFER TO GAS WATER HEATER DEALER FOR ADDITIONAL INSTALLATION INFORMATION.
G. UNIT SHALL MEET SCAGMD RULE 146.2 FOR LOW NOX EMISSIONS.
H. DISCONNECT SWITCH TO BE PROVIDED BY ELECTRICAL CONTRACTOR, PLUMBING CONTRACTOR SHALL COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
I. WATER HEATERS SIZED BY AERCO, PER "BY JEFF BEARD - HEAT TRANSFER SALES"

WATER FIXTURE LOAD CALCULATION					
MARK	FIXTURE/EQUIPMENT	QUANTITY	CW F.U. PER FIXTURE PER HOUR	WATER TOTAL WSP PER TYPE PER HOUR	WASTE TOTAL WSP PER TYPE PER HOUR
EWC	WATER COOLER	2	0.25	0.25	0.25
MS	MOP SINK	1	2.25	2.25	3
L-1,2	LAVATORY	112	0.5	0.5	0.5
S-1	SINK	112	0	1.0	1.4
WC-1	WATER CLOSET	112	2	-	2.2
WC-2	WATER CLOSET	112	10.0	-	10.0
BT	BATH TUB	112	1.0	1.0	1.4
COMP	1,2 COMP SINK	3	3.0	3.0	4.0
CW	COMMERCIAL WASHER	2	3.0	3.0	4.0
WD	RESIDENTIAL WASHER	2	0	1.0	1.4
TOTALS				708.9	

MAXIMUM WATER DEMAND AT 708.9 F.U. @ 150 GPM = 3" WATER MAIN SUPPLY

PLUMBING FIXTURE CONNECTION SCHEDULE													
MARK	FIXTURE/EQUIPMENT	DOMESTIC COLD WATER	1st STAGE FILTERED WATER	2nd STAGE FILTERED WATER	3rd STAGE FILTERED WATER	DOM. HOT WATER 110°F	DOM. HOT WATER 140°F	TEMPERATURE WATER 165°F	INDIRECT WASTE CONNECTION	SANITARY SEWER	GREASE WASTE	VENT	GAS CONNECTION
ET	EXPANSION TANK	1/2"	-	-	-	-	-	-	-	-	-	-	-
FCO	FLOOR CLEANOUT	-	-	-	-	-	-	-	-	SEE DWG	-	-	-
FD	FLOOR DRAIN	-	-	-	-	-	-	-	-	3"	-	2"	-
FS	FLOOR SINK	-	-	-	-	-	-	-	-	-	-	2"	-
GI	GREASE INTERCEPTOR	-	-	-	-	-	-	-	-	3"	3"	2"	-
LAV	LAVATORY	1/2"	-	-	-	1/2"	-	-	-	1-1/2"	-	1 1/2"	-
TMV	THERMAL MIXING VALVE	3/4"	-	-	-	3/4"	3/4"	-	-	-	-	-	-
TP	TRAP PRIMER	1/2"	-	-	-	-	-	-	-	-	-	-	-
WCO	WALL CLEANOUT	-	-	-	-	-	-	-	-	3"	-	1-1/2"	-
WC	WATER CLOSET (ADA)	1/2"	-	-	-	-	-	-	-	4"	-	2"	-
WH	WATER HEATER	1"	-	-	-	1"	-	-	-	-	-	2"	-
WHA	WATER HAMMER ARRESTOR	-	-	-	-	-	-	-	-	-	-	-	-
MS-1	MOP SINK	1/2"	-	-	-	-	1/2"	-	-	2"	-	2"	-
HS	HAND SINK WALL HUNG	1/2"	-	-	-	1/2"	-	-	-	1 1/2"	-	-	-
3 COMP	3 COMP SINK	1/2"	-	-	-	-	1/2"	-	-	3"	-	2"	-
	DISHWASHER	-	-	-	-	-	-	-	-	-	-	2"	-
2 COMP	2 COMP SINK	1/2"	-	-	-	-	1/2"	-	-	2"	-	-	-

PUMP SCHEDULE								
MARK	SERVES	MANUFACTURER	MODEL	GPM	HEAD (FEET)	CHARGE (GALLONS)	VPH/PHZ	NOTES
SP-1	ELEVATOR	STANCOR	OIL-MINDER	50	15	3	208/12	A
SP-2	ELEVATOR	STANCOR	OIL-MINDER	50	15	3	208/12	A
HWRP1	RECIRC	BELL & GOSSETT	ECOCIRC 30	5	30	3/4	115/10/167	
HWRP2	RECIRC	BELL & GOSSETT	ECOCIRC XL 36	5	30	3/4	115/10/167	
HWRP3	RECIRC	BELL & GOSSETT	ECOCIRC 15-75	18	30	3/4	115/10/167	

NOTES:
A. PROVIDE WITH MANUAL FLOAT OPERATED SUBMERSIBLE 2-POLE MECHANICAL SWITCH (AUTOMATIC).
B. PROVIDE 3" DISCHARGE PIPING, SHUT OFF VALVE AND CHECKER TYPE NON-CLOG CHECK VALVE.
C. EQUIPMENT SHALL MEET ASHRAE 90.1 STANDARDS FOR THERMAL EFFICIENCY AND STANDBY LOSS.
D. PROVIDE FACTORY INSTALLED TEMPERATURE AND PRESSURE SAFETY RELIEF VALVE (TAP VALVE).
E. PLUMBING CONTRACTOR SHALL PROVIDE HARD COPPER DRAIN LINE FROM T & P VALVE DOWN TO AN APPROVED RECEPTOR WITH AIR GAP, PIPING TO BE FULL SIZE OF 1/4" VALVE DISCHARGE CONNECTION.
F. REFER TO GAS WATER HEATER DEALER FOR ADDITIONAL INSTALLATION INFORMATION.
G. UNIT SHALL MEET SCAGMD RULE 146.2 FOR LOW NOX EMISSIONS.
H. DISCONNECT SWITCH TO BE PROVIDED BY ELECTRICAL CONTRACTOR, PLUMBING CONTRACTOR SHALL COORDINATE INSTALLATION WITH ELECTRICAL CONTRACTOR.
I. WATER HEATERS SIZED BY AERCO, PER "BY JEFF BEARD - HEAT TRANSFER SALES"

COORDINATE PUMP PIT ELEVATION AND CONSTRUCTION WITH ARCHITECTURAL DRAWINGS

SAN. SEWER FIX. LOAD CALC.				
MARK	FIXTURE/EQUIPMENT	QUANTITY	WASTE F.U. PER FIXTURE PER HOUR	TOTAL F.U. PER HOUR
FD/HD	FLOOR/HUB DRAIN	20	5.0	100.0
TD	TROUGH DRAIN	1	6.0	6.0
MS	MOP SINK	1	3.0	3.0
L-1,2	HAND SINK	118	1.0	118.0
WC-1,2	WATER CLOSET	118	4.0	472.0
S-1	SINK	112	1.0	112.0
BT	BATH TUB/SHOWER	112	2.0	224.0
CW	COMMERCIAL WASH	2	3.0	6.0
WD	RESIDENTIAL WASH	2	2.0	4.0
	POOL TRENCH DRAIN	1	6.0	6.0
TOTALS				1051.0

MAXIMUM WASTE DEMAND AT 1051.0 F.U. @ 150 GPM = 8" SANITARY SEWER WASTE

mcmilian
pazdan
smith
ARCHITECTURE

877.4.DEVITA
Devita & Associates, Inc. Project: 17239
NC Perm License # C-0819
Checked By: DV

WINDSOR AUGHTRY
HOME2 ASHEVILLE
380 AIRPORT RD.
ASHEVILLE, NC 28704

SHEET ISSUE
07/30/18
FOR CONSTRUCTION

Revisions		
Number	Description	Date
A	Addendum 1 - Food Prep Changes to Coord w/ Protospace	09/06/18

PRINCIPAL IN CHARGE
PROJECT ARCHITECT
DRAWN BY
SHEET TITLE
PLUMBING SCHEDULES

SHEET NO. PROJ NO.
017378.90

P001

Order Plans