

PLOTTED: 5/10/2018 12:11 PM

Order Plans

PLUMBING MATERIAL LIST

NOTES:

- ANY SUBSTITUTIONS TO THE SPECIFIED MATERIALS AND/OR EQUIPMENT MUST BE APPROVED BY OWNER BEFORE BIDDING AND ANY SUBSTITUTIONS SHALL BE STATED ON THE BID. IF NO SUBSTITUTIONS ARE NOTED ON THE BID, PROVIDED MATERIALS AND/OR EQUIPMENT SHALL BE FURNISHED EXACTLY AS SPECIFIED WITH NO EXCEPTIONS.
- REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION FOR ALL ABOVE EQUIPMENT/DEVICES LISTED ABOVE FOR COMPLETE INSTALLATION, MOUNTING AND CONNECTION REQUIREMENTS.
- ALL FIXTURES, DEVICES AND MATERIAL SHALL COMPLY WITH THE SAFE DRINKING WATER ACT OF 2011.

FIXTURE	SYMBOL	DESCRIPTION
WATER CLOSET	WC-A	WATER CLOSET - AMERICAN STANDARD MADERA #3461.528 VITREOUS CHINA, FLOOR MOUNTED, TOP SPUD, ELONGATED BOWL, RIM 17 1/4" ABOVE FLOOR FOR WHEELCHAIR USE, BOLT CAPS, SLOAN SOLAR POWERED, SENSOR OPERATED FLUSH VALVE WITH BATTERY BACK-UP SOLS 811-1.28 WITH 1.28 GPF, 3/8" ANGLE SUPPLY AND STOP AND 1/2" TOP SPUD CONNECTION AND SHALL BE CHROME PLATED, ADA COMPLIANT, VACUUM BREAKER, FACTORY SUPPLIED BATTERIES FOR BACK-UP ONLY, LOW BATTERY INDICATOR LIGHT, WALL AND SPUD FLANGES. WHITE HEAVY DUTY MOLDED SOLID PLASTIC ELONGATED SEAT WITH OPEN FRONT - BEMIS 1955.
URINAL	UR-A	URINAL - AMERICAN STANDARD "WASHBROOK" 4590.510, FLUSH VALVE TYPE, 0.5 GPF WHITE VITREOUS CHINA, WASHOUT, 3/4" TOP SPUD, 2" OUTLET, ELONGATED - 14" RIM, FURNISH CARRIER WITH TOP AND BOTTOM BEARING PLATES, BOLT SECURELY TO FLOOR. SLOAN SOLAR POWERED, SENSOR OPERATED FLUSH VALVE WITH BATTERY BACK-UP SOLS 8186-0.5 WITH 0.5 GPF, 3/4" INLET SHALL BE CHROME PLATED, WITH SCREWDRIVER BACK CHECK ANGLE STOP VALVE, ADA COMPLIANT, VACUUM BREAKER, FACTORY SUPPLIED BATTERIES FOR BACK-UP ONLY, LOW BATTERY INDICATOR LIGHT, WALL AND SPUD FLANGES, MOUNT 15 1/2" AFF TO RIM AND VALVE HANDLE AT 44" AFF MAXIMUM. PROVIDE REMOVABLE STAINLESS STEEL STRAINER AMERICAN STANDARD 0470680070A.
LAVATORY	LAV-A	LAVATORY - AMERICAN STANDARD "NEW LUCERNE" 0356.421, 20"x18" VITREOUS CHINA, WALL HUNG WITH SINGLE CENTER HOLE FOR FAUCET, AMERICAN STANDARD 7733.018 OFFSET TAILPIECE ASSEMBLY WITH GRID DRAIN, SUPPLY WITH ANGLE STOPS, ADJ. CHROME PLATED CAST BRASS TRAP WITH CO. WADE W920-D FLOOR MOUNTED CARRIER WITH CONCEALED ARMS ONLY, WALL BRACKET WILL NOT BE ACCEPTABLE. INSTALL TAILPIECE, TRAP, TRAP ARM AND SUPPLIES PARALLEL AS TIGHT AS POSSIBLE TO WALL FOR WHEELCHAIR USE. INSULATE AS PER SPEC. PROVIDE WITH SLOAN MODEL SF-2450 ELECTRONIC SENSOR ACTIVATED HAND WASHING FAUCET WITH BATTERY POWERED INFRARED SENSOR WITH ADJUSTABLE RANGE, 4" CENTERSET, SINGLE TEMPERED WATER SUPPLY CONNECTION AND 0.5 GPM VANDAL RESISTANT AERATOR, AND ADA COMPLIANT.
DISHWASHER	DW-A	DISHWASHER - FURNISHED BY GC.
SINK	SK-A	SINK - JUST US-ADA-1620-A-18 GA., ADA COMPLIANT, UNDERMOUNT 16"x20"x5"(MAX) SINGLE COMPARTMENT, CENTER REAR DRAIN, 18 GA., TYPE 304 (18-8) STAINLESS STEEL, J35 CUP STRAINER AND OFFSET TAILPIECE, GARBAGE DISPOSAL CONNECTION, ASSEMBLY AMERICAN STANDARD 6409.170 LEDGE TYPE FAUCET WITH 8" SPOUT, AERATOR & WRISTBLADE HANDLES, 17 GA. C.P. BRASS CONTINUOUS WASTE, ADJ. CHROME PLATED CAST BRASS TRAP, INSULATE AS PER SPEC.
GARBAGE DISPOSAL	GD-A	GARBAGE DISPOSAL - INSINKERATOR MODEL LC-50, 120V, 60Hz, 5.8A
MOP BASIN	MB-A	MOP BASIN - FIAT MSB-3624, 36"x24"x10", MOLDED STONE INTEGRAL 3" DRAIN AND STAINLESS STEEL STRAINER, AMERICAN STANDARD 8354.112 FAUCET WITH VACUUM BREAKER, COLOR INDEX, INTEGRAL STOPS, CHROME FINISH AND HOSE. DEEP SEAL TRAP.
ELECTRIC WATER HEATER	EW-H	ELECTRIC WATER HEATER - RHEEM PROE201RHPOU, 19.9 GALLON CAPACITY, 2.0 KW, 120 VOLTS, 1 PHASE, U.L. LISTED, GLASS LINED TANK, THERMOSTAT, MAGNESIUM ANODE ROD, HIGH TEMPERATURE CUT-OFF, BRASS DRAIN VALVE AND T & P RELIEF VALVE, PIPE RELIEF VALVE DOWN TO MOP BASIN, MAXIMUM 26" HIGH, WITH SIDE CONNECTIONS, UNIT SHALL CONFORM TO ASHRAE 90 OR LATEST VERSION.
TEMPERATURE MIXING VALVE	MV-A	MIXING VALVE - WATTS MODEL LFMV, 1/2", 4.0 PSI PRESSURE DROP AT 2.0 GPM WITH RANGE TEMPERATURE OF 80°F TO 120°F, SET VALVE AT A MAXIMUM 110°F. VALVE TO BE INSTALLED AT EACH LAVATORY AND BREAKROOM SINK AND SHALL MEET ASSE STANDARD 10070. VALVE TO BE ALSO LABELED CSA B125 CERTIFIED. VALVE SHALL BE BRONZE BODY WITH INTEGRAL CHECKS, FILTER WASHERS AND AN ADJUSTMENT CAP WITH LOCKING FEATURE. THE VALVE SHALL BE APPROVED FOR 0.5 GPM WATERFLOW IN ACCORDANCE WITH THE LATEST ASSE-1017.
DRINKING FOUNTAINS	DF-A	DRINKING FOUNTAIN - ELKAY MODEL EDPF210C, SS DRINKING FOUNTAIN, WALL MOUNT WITH SAFETY BUBBLER, FRONT PUSH-BEAR CONTROL, LK464 DRAIN AND TRAP ASSEMBLY, MOUNT ON ELKAY MODEL MPW200 IN-WALL SUPPORT MOUNTING PLATE WITH MODEL ML100 IN-WALL CARRIER LEGS.
	DF-B	DRINKING FOUNTAIN - ELKAY MODEL EDPF214C, SS DRINKING FOUNTAIN, WALL MOUNT WITH SAFETY BUBBLER, FRONT PUSH-BEAR CONTROL, LK464 DRAIN AND TRAP ASSEMBLY, BARRIER-FREE ACCESS, ADA COMPLIANT, MOUNT ON ELKAY MODEL MPW200 IN-WALL SUPPORT MOUNTING PLATE WITH MODEL ML100 IN-WALL CARRIER LEGS.
	FOR DF-A & B	DRINKING FOUNTAIN MOUNTING EQUIPMENT - PROVIDE ELKAY MODEL MPW200 IN-WALL MOUNTING (CARRIER) PLATE FOR MODEL MOUNTING. PROVIDE ELKAY MODEL ML100 IN-WALL (CARRIER) PLATE MOUNTING LEGS, SET TO FLOOR.
ANTI-FREEZE WALL HYDRANT	WH-1	ANTI-FREEZE WALL HYDRANT - WOODFORD B65 WITH VACUUM BREAKER, FREEZE RESISTANT, AUTOMATIC DRAINING, FLUSH MOUNT WITH WALL BOX AND LOCKING COVER, FURNISH WITH (2) EXTRA KEYS.
WATER HAMMER SHOCK ABSORBER	SA-A	WATER HAMMER DEVICE - EQUAL TO PERMITS, SIZED PER LINE SIZE AND FIT TO FITTINGS.
FLOOR DRAIN	FD-1	FLOOR DRAIN - WADE W-1100-A, CAST IRON BODY WITH DEEP SEAL TRAP, TRAP GUARD, FLASHING COLLAR AND 6" NICKEL BRONZE ADJUSTABLE TOP, INSTALL DRAIN OUT OF LIFT TRUCK TRAFFIC WAY.
FLOOR DRAIN	FD-2	FLOOR DRAIN - WADE W-1100-B, CAST IRON BODY WITH DEEP SEAL TRAP, TRAP GUARD, FLASHING COLLAR AND 6" HEAVY DUTY CAST IRON ADJUSTABLE TOP AND GRATE, INSTALL DRAIN OUT OF LIFT TRUCK TRAFFIC WAY.
HUB DRAIN	HD-1	HUB DRAIN - OPEN-ENDED CAST IRON WITH 1/2" INCH PIPE, FULL PIPE SIZE, WITH DEEP SEAL TRAP. PROVIDE WITH TRAP GUARD INSERT. INSTALL DRAIN OUT OF LIFT TRUCK TRAFFIC WAY.
HUB DRAIN CAP (FOR FUTURE DRAINS)	HD-C	CLEANOUT - ZURN CO-2401-VP GENERAL PURPOSE CLEANOUT WITH THREADED ADJUSTABLE HOUSING, TAPERED NICKEL BRONZE COVER, MINIMUM SIZE SHALL BE 3" AND HAVE A 4" MAXIMUM. ADJUST LOCATION TO BE READILY ACCESSIBLE AND OUTSIDE OF THE PATHWAY TO DOORS.
ROOF DRAIN	RD-1	ROOF DRAIN - WADE 3000 SERIES, CAST IRON BODY POLYPROPYLENE LOCKABLE DOME WITH INTEGRAL CLAMP AND GRAVEL GUARD, OUTLET SIZE AS NOTED ON P101 WITH TY SEAL AND UNDER-DECK CLAMP.
ROOF DRAIN	RD-2	ROOF DRAIN - WADE 3000SD SERIES, CAST IRON ROOF WITH WIDE FLANGE BODY, FLASHING RING, CAST IRON MUSHROOM DOME, OUTLET SIZE AS NOTED ON P101 WITH TY SEAL SIDE OUTLET.
FLOOR CLEANOUT CONCRETE FLOORS	DPCO	FLOOR CLEANOUT - WADE 6000-X CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, TAPERED BRASS PLUG AND ROUND SCORLATED NICKEL BRONZE TOP MINIMUM SIZE SHALL BE LINE SIZE UP TO 4" MAXIMUM. ADJUST LOCATION TO BE READILY ACCESSIBLE AND OUTSIDE OF THE PATHWAY TO DOORS. ANSI LOAD CLASS: SPECIAL DUTY (OVER 10,000 LBS).
FLOOR CLEANOUT WITH TILE FLOOR	DPCO	FLOOR CLEANOUT - WADE 6000-1 CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, TAPERED BRASS PLUG AND ROUND SCORLATED NICKEL BRONZE TOP MINIMUM SIZE SHALL BE LINE SIZE UP TO 4" MAXIMUM. ADJUST LOCATION TO BE READILY ACCESSIBLE AND OUTSIDE OF THE PATHWAY TO DOORS.
WALL CLEANOUT	WPCO	WADE 8560 W/ 8304-VP ROUND STAINLESS STEEL ACCESS COVER
VENT		AMTROL THERM-X-TROL ST-5, 2.1 GAL, MAX ACCEP. FACTOR .43.
REDUCED PRESSURE BACKFLOW PREVENTER (FOR RPZ DISCHARGE)	RP-1	ASTRO 225BSOSOS-1A HOT WATER RE-CIRCULATION SYSTEM
ROOF MOUNT	RH-1	ZURN MODEL Z1091-BV - CAST IRON BODY, HUB INLET AND OPEN OUTLET
FLOOR SINK	FS-1	WOODFORD SRH-MS - HOSE CONNECTION BACKFLOW PREVENTER, MODEL 50H WITH 3/4" HOSE CONNECTION, ASSE 1052 LISTED, FIELD TESTABLE DUAL CHECK HOLDS AGAINST 125 PSI BACKFLOW PRESSURE, 1/2" NPT FEMALE INLET CONNECTION, 1/2" U.S. MADE GALVANIZED PIPE, MAXIMUM WORKING PRESSURE: 100 PSI, MAXIMUM TEMPERATURE 120°F.
REDUCED PRESSURE BACKFLOW	RPZ-1	VACUUM SINK - FIAT MSB-2424, 24"x24"x10", MOLDED STONE INTEGRAL 4" DRAIN AND STAINLESS STEEL STRAINER.
DISHWASHER AIR GAP ASSEMBLY	AG-1	WATTS 3/4" LF009-QT-S LEAD FREE REDUCED PRESSURE BACKFLOW PREVENTER, 12 PSI PRESSURE LOSS @ 4 GPM (VAC. PUMP), ASSE 1013 AWWA C511-92 WITH STRAINER.
		5/8" O.D. INLET x 7/8" O.D. OUTLET DISHWASHER AIR GAP ASSEMBLY WITH STAINLESS STEEL CAP; BRASSCRAFT #BC9441

State	City	Rain Fall Rate (inches per hour)	4449	4449	4449	4449	4449
North Carolina	Charlotte	3.7					
Individual Horizontally Projected Roof Area (square feet)			4449	4449	4449	4449	4449
Type of Storm Drainage Piping			Size of Piping (inches Ø)				
1/8 unit vertical in 12 units horizontal (1-percent slope)			6	6	6	6	6
1/4 unit vertical in 12 units horizontal (2-percent slope)			5	5	5	5	5
1/2 unit vertical in 12 units horizontal (4-percent slope)			5	5	5	5	5
Vertical Conductors and Leaders			4	4	4	4	4
Total Horizontally Projected Roof Area (square feet)			4449	8898	13347	17796	22245
Type of Storm Drainage Piping			Size of Piping (inches Ø)				
1/8 unit vertical in 12 units horizontal (1-percent slope)			6	8	10	10	10
1/4 unit vertical in 12 units horizontal (2-percent slope)			5	8	8	8	10
1/2 unit vertical in 12 units horizontal (4-percent slope)			5	6	8	8	8
Vertical Conductors and Leaders			4	5	6	8	8

FIXTURE CONNECTION SCHEDULE

DESCRIPTION & SYMBOL	CONNECTION SIZE				
	HOT	TEMPERED	COLD	WASTE	VENT
WATER CLOSET (WC-A)	---	---	1"	3"	2"
LAVATORY (LAV-A)	---	3/8"	---	1-1/2"	1-1/2"
SINK (SK-A)	---	1/2"	1/2"	1-1/2"	1-1/2"
MOP BASIN (MB-A)	1/2"	---	1/2"	3"	2"
WATER HEATER (EWH-1)	3/4"	---	3/4"	---	---
ANTI-FREEZE WALL HYDRANT (WH-1)	---	---	3/4"	---	---
DRINKING FOUNTAIN (DF-A & B)	---	---	1/2"	1-1/2"	1-1/2"
URINAL (UR-A)	---	---	3/4"	2"	2"
DISHWASHER (DW-A)	---	---	3/8"	1-1/2"	---
GARBAGE DISPOSAL (GD-A)	---	---	---	1-1/2"	---
VACUUM SYSTEM (VAC)	---	---	3/4"	---	---

*1/2" ROUGH-IN, 3/8" SUPPLY

PLUMBING LEGEND

SYMBOL & ABBREV	ITEM	SYMBOL & ABBREV	ITEM
---	COLD WATER	⊗	GV GATE VALVE
---	HOT WATER	⊙	BV BALL VALVE
---	TEMPERED WATER	⊕	CV CHECK VALVE
---	NATURAL GAS	⊖	GC GAS COCK
---	SAN. WASTE	⊘	RD ROOF DRAIN
---	VENT	⊙	DPCO DECK PLATE CLEAN OUT
---	CONDENSATE	⊙	WPCO WALL PLATE CLEAN OUT
---		⊙	TRAPPED DRAIN
---		⊙	TEE - UP
---		⊙	TEE - DOWN
---		⊙	TEE
---		⊙	ELBOW - UP
---		⊙	ELBOW DOWN
---		⊙	ELBOW
---		⊙	UNION

GENERAL PLUMBING NOTES:

- PRIOR TO BID, P.C. AND G.C. SHALL VERIFY SANITARY SEWER SYSTEM LOCATION, ROUTING, PITCHES, INVERTS, SIZES AND TIE-IN POINT. ALL SEWER SYSTEM INFORMATION SHALL BE COORDINATED WITH ALDI, INC. REPRESENTATIVE AT TIME OF BID WALK-THROUGH. INFORM PLUMBING ENGINEER OF ANY AND ALL DISCREPANCIES FROM WORK SHOWN ON PLUMBING DRAWINGS PRIOR TO BID DATE.
- GAS METER BY UTILITY CO. PROVIDE CONCRETE PAD UNDER METER AS REQUIRED BY THE UTILITY CO. 10"W.C. MIN. AT GAS METER. PIPE SIZES BASED ON INTERNATIONAL FUEL GAS CODE, 0.5 INCH W.C. PRESSURE DROP AND 0.6 S.G.
- MAIN GAS SHUT-OFF VALVE ON VERTICAL OFFSET TAGGED AND LABELED. 5'-0" AFF.
- ROUTE GAS LINE UP ALONG WALL. ENTER ABOVE INTERIOR CEILING HEIGHT, AND ROUTE TIGHT TO UNDERSIDE OF JOISTS.
- ALL GAS PIPING SHALL BE INSPECTED AND TESTED IN ACCORDANCE WITH THE REQUIREMENTS OF INTERNATIONAL FUEL GAS CODE SECTION 406.1.
- ALL ELEVATIONS ARE TAKEN FROM FINISHED FLOOR: 0'-0"
- 0'-0" = 750.00'
- IF REQUIRED BY LOCAL CODE USE CAST IRON PIPE IN LIEU OF PVC PIPE FOR SANITARY AND STORM.
- ALL FLOOR DRAINS AND CLEANOUTS IN QUARRY AND CERAMIC TILE FLOOR SHALL BE NICKEL BRONZE. FLOOR DRAINS AND CLEANOUTS IN BACKROOM AND UTILITY ROOM WILL BE CAST IRON.
- IF REQUIRED BY LOCAL UTILITY CO. WATER METER SHALL BE PROVIDED WITH REMOTE READING.
- CAULK ALL CLEANOUT GRATINGS FLUSH TO AVOID TRAPPING OF DIRT.
- ALL PIPING AT WALLS SHALL BE WITHIN CURB DEPTH.
- DOMESTIC WATER PIPING DOWNSTREAM OF PRESSURE REDUCING VALVE MAY USE CPVC FOR POTABLE WATER IN LIEU OF COPPER PIPING.
- ALL PLUMBING PIPING SHALL BE ROUTED AROUND ELECTRICAL AREAS WHERE POSSIBLE. IF ROOF DRAINS ARE OVER THE AREA, DRIP PAN SHALL BE INSTALLED UNDER THE ENTIRE LENGTH OF EACH PIPE OVER THE SENSITIVE AREA OVER THE ROOM, CHANNELING WATER AWAY SO AS TO PREVENT ANY LEAKS IN THE AREA. AT THE LOWER SEGMENT OF DRIP PAN, ROUTE DRAIN TO NEAREST APPROVED RECEPTACLE WITH AN APPROVED AIR GAP PER CODE. CONTRACTOR SHALL REVIEW ALL DRAWING PRIOR TO CONSTRUCTION, AND REPORT IF THIS CONDITION EXISTS.

Issued: Date:

A	Permit Set	12/05/17
B	Client Review Set	05/03/18
C	Bid Set	05/11/18
D		

Revisions: Date:

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DO NOT SCALE PLANS

Copying, Printing, Software and other processes required to produce these prints can stretch or shrink the actual paper or layout. Therefore, scaling of this drawing may be inaccurate. Contact us consultants with any need for additional dimensions or clarifications.

DRAWN BY: MEM

REVIEWED BY: KFF

Seal



ALDI Inc. Store #: 65
 Charlotte, NC
 6113 Idlewild Road
 Charlotte, NC 28212
 Mecklenburg County
 Project Name & Location:

Plumbing Schedules
 Drawing Name:
 Prototype Rls. 09/07/17
 Project No. 40452-13
 Type: LHSD-V8
 P-501
 Scale: As Noted
 Drawing No.