

Order Plans

PLUMBING MATERIAL LIST		
<p>NOTES:</p> <p>1. 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.</p> <p>2. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION FOR ALL ABOVE EQUIPMENT/DEVICES LISTED ABOVE FOR COMPLETE INSTALLATION, MOUNTING AND CONNECTION REQUIREMENTS.</p> <p>3. ALL FIXTURES, DEVICES AND MATERIAL SHALL COMPLY WITH THE SAFE DRINKING WATER ACT OF 2011.</p>		
FIXTURE	SYMBOL	DESCRIPTION
WATER CLOSET	WC-A	WATER CLOSET - AMERICAN STANDARD MADERA #3461.001.020 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 8111-1.28 WITH 1.28 GPF, 3/4" 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" 6590.001 EC, 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 7723.018 OFFSET TAILPIECE ASSEMBLY WITH GRID DRAIN, SUPPLY WITH ANGLE STOPS, ADJ. CHROME PLATED CAST BRASS TRAP WITH CO. WADE W520-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 2.2 GPM VANDAL RESISTANT AERATOR, AND ADA COMPLIANT.
DEHWASHER	DW-A	DISHWASHER - PROVIDED BY G.C., 120V, 60Hz, 15A
SINK	SK-A	SINK - JUST US-ADA-1620-A-18GA., ADA COMPLIANT, UNDERMOUNT, 16"x20"x41"(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 8344.112 FAUCET WITH VACUUM BREAKER, COLOR INDEX, INTEGRAL STOPS, CHROME FINISH AND 5' HOSE, DEEP SEAL TRAP.
ELECTRIC WATER HEATER	EW-1	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 LFMMV, 3/4", 4.0 PSI PRESSURE DROP AT 2.0 GPM WITH RANGE TEMPERATURE OF 80°F TO 120°F, SET VALVE TO A MAXIMUM 110°F, VALVE TO BE INSTALLED AT EACH LAVATORY AND BREAKROOM SINK AND SHALL MEET ASSE STANDARD 1070, VALVE TO BE ALSO LABELED CSA B125 CERTIFIED, VALVE SHALL BE BRONZE BODY WITH INTEGRAL CHECKS, FILTER WASHERS AND AN ADJUSTABLE 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 EDFP210C, SS DRINKING FOUNTAIN, WALL MOUNT WITH SAFETY BUBBLER, FRONT PUSH BUTTON CONTROL, LK464 DRAIN AND TRAP ASSEMBLY, MOUNT ON ELKAY MODEL MPW200 IN-WALL SUPPORT MOUNTING PLATE WITH MODEL ML-100 IN-WALL CARRIER LEGS.
	DF-B	DRINKING FOUNTAIN - ELKAY MODEL EDFP214C, SS DRINKING FOUNTAIN, WALL MOUNT WITH SAFETY BUBBLER, FRONT PUSH BUTTON CONTROL, LK464 DRAIN AND TRAP ASSEMBLY, BARRIER-FREE ACCESS, ADA COMPLIANT, MOUNT ON ELKAY MODEL MPW200 IN-WALL SUPPORT MOUNTING PLATE WITH MODEL ML-100 IN-WALL CARRIER LEGS.
	FOR DF-A & B	DRINKING FOUNTAIN MOUNTING EQUIPMENT - PROVIDE ELKAY MODEL MPW200 IN-WALL MOUNTING (CARRIER) PLATE FOR BILEVEL 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 PROTECT, AUTOMATIC DRAIN, FLUSH MOUNT WITH WALL BOX AND LOCKING COVER, FURNISH WITH (2) EXTRA KEYS.
WATER HAMMER SHOCK ABSORBER	SA-A	WATER HAMMER DEVICE - EQUAL TO PPP INC. SIZED PER LINE SIZE AND FIXTURE UNITS.
FLOOR DRAIN	FD-1	FLOOR DRAIN - WADE W-1100-A, CAST IRON BODY WITH DEEP SEAL TRAP GUARD, FLASHING COLLAR AND 6" NICKEL BRONZE ADJUSTABLE TOP, INSTALL DRAINS OUT OF LEFT TRAFFIC WAY.
FLOOR DRAIN	FD-2	FLOOR DRAIN - WADE W-1100TS, CAST IRON BODY WITH DEEP SEAL TRAP GUARD, FLASHING COLLAR AND 6" HEAVY DUTY CAST IRON ADJUSTABLE TOP AND GRATE, INSTALL DRAINS OUT OF LEFT TRAFFIC WAY.
HUB DRAIN	HD-1	HUB DRAIN - OPEN-ENDED CAST IRON HUB DRAIN PIPE, 1/2" LINE SIZE, WITH DEEP SEAL TRAP, PROVIDE WITH TRAP GUARD INSERT, INSTALL DRAINS OUT OF LEFT TRAFFIC WAY.
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 3000-D 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 600-X CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, TAPERED BRASS PLUG AND ROUND SCORRIATED 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.
FLOOR CLEANOUT WITH TILE FLOORS	DPCO	FLOOR CLEANOUT - WADE 600-1 CAST IRON CLEANOUT WITH THREADED ADJUSTABLE HOUSING, TAPERED BRASS PLUG AND ROUND SCORRIATED 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		WADE 8560 W/ 8304-VF ROUND STAINLESS STEEL ACCESS COVER
EXPANSION TANK		CONTROL THERM-X-TROL ST-S, 2.1 GAL. MAX ACCEP. FACTOR .43.
FLAPPER VALVE (ON REAR CHARGE)		ZURN MODEL Z1091-BV - CAST IRON BODY, HUB INLET AND OPEN OUTLET
ROOF HYDRANT	RH-1	WOODFORD SRH-M5 - HOSE CONNECTION BACKFLOW PREVENTER, MODEL 50H WITH 3/4" HOSE CONNECTION, ASSE 1052 LISTED, FIELD TESTABLE DUAL CHECK HOLDS AGAINST 125 PSI BACKFLOW PRESSURE, 3/4" NPT FEMALE INLET CONNECTION, 1/2" U.S. MADE GALVANIZED PIPE, MAXIMUM WORKING PRESSURE: 100 PSI, MAXIMUM TEMPERATURE 120°F.
FLOOR SINK	FS-1	VACUUM SYSTEM SINK - FIAT MSB-2424, 24"x24"x10", MOLDED STONE INTEGRAL 4" DRAIN AND STAINLESS STEEL STRAINER.
REDUCED PRESSURE BACKFLOW PREVENTERS	RPZ-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.
DISHWASHER AIR GAP ASSEMBLY	AG-1	5/8" O.D. INLET x 7/8" O.D. OUTLET DISHWASHER AIR GAP ASSEMBLY WITH STAINLESS STEEL CAP; BRASSCRAFT #BC9441
DUPLEX GRINDER PUMP SYSTEM	SP-1	DUPLEX GRINDER PUMP SYSTEM - (2) LIBERTY SUBMERSIBLE SINGLE STAGE GRINDER PUMPS MODEL LSC203M, EACH RATED AT 2 HP, 208/230V, 60 HZ., 3 PHASE, 10.4 FLA., AT 3450 RPM, EACH UNIT SHALL PRODUCE 40 GPM AT 64 FEET OF DYNAMIC HEAD, PUMPS SHALL INCLUDE 1/2" DISCHARGE CONNECTION, NEMA-4X INDOOR DUPLEX CONTROL PANEL WITH FOUR FLOAT SWITCHES AND HIGH WATER ALARM AND WITH INTEGRAL OVERLOAD PROTECTION, STAINLESS STEEL GUIDE RAIL SYSTEM WITH QUICK DISCONNECTS AND PIPING TO INCLUDE AN INTERNAL BALL CHECK VALVE, DISCHARGE PIPING TO BE SCHEDULE 80 PVC AND FURNISHED WITH A PVC SHUT-OFF BALL VALVE, PUMPS SHALL BE OF CLASS 25 CAST IRON CONSTRUCTION WITH OIL FILLED MOTOR HOUSING, BUNA-N MOLDED DOUBLE LIP SEALS AND O-RINGS, CAST STAINLESS STEEL IMPELLER AND 440 STAINLESS STEEL ROTARY CUTTER AND PLATE WITH (4) BLADES, 25 FT. 3-PHASE SEDOW MULTICONDUCTOR CORD, PUMPS EXTERIOR CASTING SHALL BE PAINTED AND PROTECTED WITH POWDER COAT PAINT, SUMP BASIN SHALL BE SUPPLIED BY G.C. AND SHALL BE 36 INCHES MINIMUM DIAMETER, DUPLEX PUMP CONTROL PANEL SHALL BE MOUNTED 48" MIN. ABOVE FINISHED FLOOR ON WALL NEAR SUMP.
ROOF DRAIN	RD-1	DUAL OUTLET ROOF DRAIN - ZURN Z103-45 - WITH 45° PRIMARY OUTLET CONNECTION, DURA-COATED CAST IRON DEEP SUMP BODY WITH COMBINATION MEMBRANE FLASHING CLAMP/GRAVEL GUARD, OVERFLOW PIPE AND LOW SILHOUETTE CAST IRON DOME.
DOWNSPOUT NOZZLE	DN-1	ZURN MODEL ZANB-199 DOWNSPOUT NOZZLE, NICKEL BRONZE BODY, NO HUB INLET.

PLUMBING LEGEND

SYMBOL & ABBREV	ITEM	SYMBOL	ABBREV	ITEM
---	CW	---	GV	GATE VALVE
---	HW	---	BV	BALL VALVE
---	TW	---	CV	CHECK VALVE
---	G	---	GC	GAS COCK
---	SAN	---	RD	ROOF DRAIN
---	V	---	DPCO	DECK PLATE CLEANOUT
---	ST	---	WPCO	WALL PLATE CLEANOUT
---	CD	---		TRAPPED DRAIN
		---		TEE - UP
		---		TEE - DOWN
		---		TEE
		---		ELBOW - UP
		---		ELBOW - DOWN
		---		UNION

GENERAL NOTES:

- 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 EXIST.

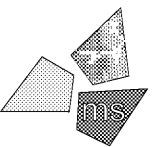
DESCRIPTION & SYMBOL	CONNECTION SIZE				
	HOT	TEMPERED	COLD	WASTE	VENT
WATER CLOSET (WC-A)	---	---	1"	3"	2"
LAVATORY (LAV-A)	---	3/8"	---	1-1/2"	1-1/2"
SINK (SK-A)	---	3/8"	3/8"	1-1/2"	1-1/2"
MOP BASIN (MB-A)	1/2"	---	1/2"	3"	2"
WATER HEATER (EW-1)	3/4"	---	3/4"	---	---
ANTI-FREEZE WALL HYDRANT (WH-1)	---	---	3/4"	---	---
DRINKING FOUNTAIN (DF-A & B)	---	---	3/8"	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

Issued:	Date:
A Client Review Set	04/07/17
B Permit Set	04/07/17
C Bid Set	09/05/17
D	
Revisions:	Date:
1	
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DO NOT SCALE PLANS

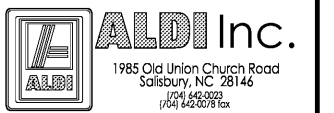
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EXP. DATE: 02/28/2019



ALDI Inc. Store #: 161
VA Beach Blvd & Thalia
4220 Virginia Beach Blvd
Virginia Beach, VA 23452
Willis Wayside
Project Name & Location:

Plumbing Schedules	
Drawing Name:	
Prototype Rls. 02/08/17	Project No. 40320-40
Type: RHSD-V7	
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Scale: As Noted	Drawing No.