THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING THE MODEL WHICH MOST CLOSELY MATCHES THE SPECIFIED PRODUCT, PROVIDE PRODUCTS MADE BY ANY OF THE MANUFACTURER'S LISTED. NO PRIVATE LABELED MATERIALS WILL BE ACCEPTED AS EQUALS TO PRODUCTS SPECIFIED HEREIN.
ALL FIXTURES OF THE SAME TYPE AND/OR MATERIAL SHALL BE PROVIDED BY A SINGLE MANUFACTURER.

EIGAL STALL BE PROVIDED BY A SINGLE MANUFACTURER.

KOHLER, MERICAN STANDARD, ZURN, TOTO, SLOAN
CHURCH, GLSONTE, BERMS, CENTOCO
SLOAN, ZURN, DELANEY VI
TAGE BRASS, CHEGACO, ZURN, GETA COMMERCIAL, MOEN COMMERCIAL
MEGUINE, BRASSCRAFT, KEENEY
TRUEBRO, PLUMERENZ, KEENEY
TRUEBRO, PLUMERENZ, KEENEY
ZURN, LA, STALL, WALLE, JOSAM, WATTS
PPP, SIOUX CHIEF, ZURN, WATTS
PPP, SIOUX CHIEF, ZURN, WATTS
CHY GROW, SOUX CHIEF, ZURN, WATTS
WATTS, ZÜRN-MALDS, APOLLO
WATTS, ZÜRN-MALDS, APOLLO

SHOCK ARRESTOR TABLE										
DRAWING SYMBOL	FIXTURE UNITS	PDI WH201 STANDARD DESIGNATION	ARRESTOR SIZE	APPROVED MANUFACTURERS						
SA-A	1-11	А	1/2*	- SIOUX CHIEF - WATTS						
SA-B	12-32	В	*4"	- PPP INC.						
SA-C	33-60	С	1"							
SA-D	61-113	D	114"	REMARKS						
SA-E	114-154	E	11/2"	INSTALL SHOCK ARRESTORS PER PDI WHZDI GUIDEINES						
SA-F	155-330	F	2*	FER PDI WITZUI GUIDELINES						

### PLUMBING MATERIALS AND NOTES

- DOMESTIC WATER PIPING AND JOINTS <u>ABOVE GRADE</u>: PROVIDE TYPE 'K' HARD DRAINN SEAMLESS COPPER TUBING (ASTA B 88) AND CAST COPPER ALLOY FITTINGS (ASAE BIR18). JOINTS 1" AND SMALLER SHALL BE LEAD FREE "95-5" TN/SLIVES GOLGER JOINTS (ASTA B 32), JOINTS 14" AND LARGER SHALL BE BCUP SILVER/PHOSPHORUS/COPPER BRAZED JOINTS (AWS 45.8).
- STERILIZE THE DOMESTIC WATER SYSTEM IN ACCORDANCE WITH THE AMERICAN WATER WORKS ASSOCIATION'S SPECIFICATIONS AND LOCAL HEALTH DEPARTMENT REGULATIONS.
- Insulate domestic water piping above grade (except exposed connections to plup fixtures) with glass fiber insulation having a vapor barrier and jacket. Pipe insulation shall have a computivity not exceeding 0.27 bith  $\times$  SQ. Ft. Follow softedule below:

- PROTECT COPPER PIPING AGAINST CONTACT WITH DISSMILAR METALS. ALL HANGERS, SUPPANCIORS AND CLIPS SHALL BE COPPER PC. COPPER PLATED. MHERE COPPER PIPING IS CARRED ON TRAPEZE HANGERS WITH OTHER PIPING, PROVIDE A PERMANENT ELECTROLYTIC ISSCLATION MATERIAL TO PREVENT CONTACT WITH DISSMILAR OTHER METALS.
- DOMESTIC WATER PIPING SHALL BE SLOPED FOR DRAINAGE WITH DRAIN VALVES INSTALLED AT LOW POINTS.

### SANITARY WASTE / VENT PIPING:

- PROVIDE CLEAN-OUTS AT THE BASE OF SANITARY WASTE STACKS AND STORM DRAIN RISERS AND EVERY TURN IN PIPING IN EXCESS OF 45" AND NO FURTHER THAN 100"-0" APART IN A LOCATION THAT PERMITS ACCESS FOR SERVICE WITHOUT DAMAGE TO THE BULLOING OR PINISHED MATERIALS.
- PROVIDE FLOOR CLEANOUTS WITH TOPS DESIGNED TO MATCH SPECIFIC FLOOR FINISHES SUCH AS CARPET, TILE, ETC.

## WHERE WASTE PIPING IS EXPOSED IN REST ROOM AREAS, PROVIDE CHROME PLATED BRASS PIPING, REMOVABLE P-TRAPS, MATCHING STOPS AND ESCUTCHEONS FOR ALL LAVATORIES.

**DEMOLITION NOTE - SAFING** ALL EQUIPMENT AND UTILITY SERVICES REMOVED FROM THIS PROJECT SERVING ASS THE SCOPE OF WORK, SHALL BE VALVED, CAPPED, DRAINED, ETC. AND IN GENERAL FOR BUILDING VACANCY.

## PLUMBING GENERAL NOTES

- PLUMBING WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE NORTH CAROLINA STATE PLUMBING CODE AND WITH THE REQUIREMENTS OF THE LOCAL AUTHORITY HAVING JURISDICTIO
- SCOPE: PROVIDE ALL LABOR, MATERIAL AND EQUIPMENT REQUIRED FOR THE COMPLETION AND OPERATION OF ALL PLUMBING SYSTEMS IN ACCORDANCE WITH ALL APPLICABLE CODES.

- FIELD VERIFY PROPER OPERATION OF EXISTING SYSTEMS BEFORE STARTING CON NOTIFY THE ARCHITECT / ENGINEER OF RECORD OF ANY PROBLEMS OR DISCRE THE CONSTRUCTION DOCUMENTS AND EXISTING CONDITIONS AND/OR ANY POTEL OBSERVED BEFORE CONTINUING WORK IN THE EFFECTED AREAS.

- ALL VALVES, BACKFLOW PREVENTERS, BOOSTER PUMPS, ETC. SERVING THE DOMESTIC WATER SYSTEM SHALL MEET LEAD FREE STANDARDS PER ANSI/NSF 372 AND NSF 61, ANNEX G.
- CUT WALLS, FLOORS AND CEILINGS AS REQUIRED FOR INSTALLATION OF PLUMBING WORK. ALL CUTTING SHALL BE HELD TO A MINIMUM. PATCH AND FINISH SURFACES TO MATCH ADJOINING SUBFACES.

- ATTACH HANGERS TO STRUCTURE, HANGERS SHALL  $\underline{\text{NOT}}$  ATTACH TO THE DECK.

- PIPE SENTIFICATION SHALL MATCH THE FACILITY'S EXISTING STANDARD. IF NO STANDARD EXISTS THEN THE PIPE IDENTIFICATION SHALL BE IN ACCORDANCE WITH ANSI A13.1.
- PROVIDE PIPING LABELS FOR ALL PLUMBING PIPING. PIPING LABELS SHALL BE ACRYLIC FACED, WRAP—AROUND TYPE. EACH LABEL SHALL INDICATE THE PIPING CONTENTS, DIRECTION OF FLOW AND SHALL BEAR THE MANUFACTURER'S STANDARD COLOR FOR THE SERVICE INDICATED.

# PLUMBING LEGEND EXISTING PIPING NEW PIPING ABBR. COLD WATER PIPING HOT WATER PIPING HOT WATER RETURN PIPING SANITARY WASTE PIPING SANITARY VENT PIPING -x-x-(€)x-x-x EXISTING PIPING TO BE REMOVED ELBOW DOWN FLROW UP PIPE CONTINUES PIPE CAP BALL VALVE \_\_\_\_<u>~</u> CHECK VALVE \_\_\_ REDUCED PRESSURE ZONE BACKF FLOOR CLEAN OUT KLUWALIAY MANUACTURER MOUNTING HEIGHT PHASE POUNDS PER SQUARE INCH SQUARE FEIT IRE UNITS STEMPERATURE AND PRESSURE TEMPERATURE AND PRESSURE TEMPERATURE AND PRESSURE TURKANA URKANA URKANA URKANA WALE VENT THRU ROOF WAITE COLUMN

RENOVATION

FLOOR

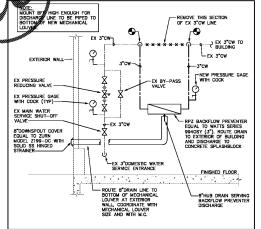
GROUND

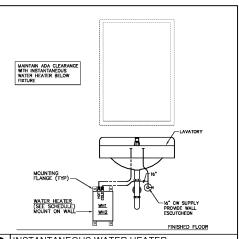
### PLUMBING DEMOLITION NOTES

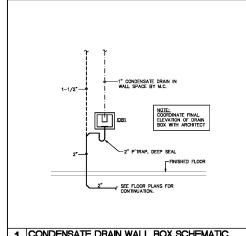
- THE PLUMBING CONTRACTOR SHALL WIST THE SITE PRIOR TO BIDDING THE PROJECT EXISTING CONDITIONS AND DETERMINE THE LEVEL OF DEMOLITION REQUIRED AND INCESSARY PRICING IN THEIR BID. ANY DISCREPANCIES NOTED BETWEEN THE DOCULENISTING CONDITIONS SHALL BE BROUGHT TO THE ATTENTION OF THE ENGINEER PRI
- PLUMBING CONTRACTOR SHALL REMOVE UNUSED HW & CW BRANCH PIPING BACK TO WITHIN 12" OF THE MAIN IT CONNECTS, TERMINATE WITH SHUT-OFF VALVE AND CAP.
- PLUMBING CONTRACTOR SHALL REMOVE UNUSED VENT BRANCH PIPING BACK TO WITHIN 12" OF THE MAIN IT CONNECTS THEN CAP.
- PLUMBING CONTRACTOR SHALL VERIFY PROPER OPERATION OF ALL EXISTING EQUIPMENT PRIOR TO BEGINNING WORK. ANY PROBLEMS SHALL BE BROUGHT TO THE ATTENTION OF THE PROJECT ARCHITECT HAMEDIATELY.

7.	WITH THE REMOVAL OF EXISTING WALLS, SOME EXISTING WASTE, VENT, STORM DRAIN, OR
	DOMESTIC WATER PIPING MAY BE DISCOVERED. ANY EXISTING PIPING DISCOVERED THAT IS ACTIVE SHALL BE OFFSET BY THE P.C. TO NEW WALLS. ANY EXISTING PIPING DISCOVERED THAT
	IS ABANDONED SHALL BE REMOVED.

	\	NATE	R HEATI	ER:	SCF	HED	ULI			
SYM.		STORAGE (GALLONS)	TEMP. RISE FLOW	ELECTRICAL DATA				SELECTION BASED ON		
	DESCRIPTION			ĸw	VOLTS	PHASE	HERTZ	MANUFACTURER	MODEL	REMARI
WH1/WH2	INSTANTANEOUS ELECTRIC WATER HEATER	-	56" RISE @ 0.5 GPM	4.1	277	1	60	EEMAX	SPEX4277T	1,2
REMARKS 1. EQUIV		-ELTRON, C	HRONOMITE.		ATER H		SHALL	MEET OR EXCEED	THE REQUIREM	ents of







NO. DATE DESCRIPTION 1 03/07/18 ISSUED FOR BID

PLUMBING LEGEND, SCHEDULES, AND NOTES

P001

AGENCY REVIEW ID:

Order

3 EXISTING WATER SERVICE ENTRANCE SCHEMATIC

2 INSTANTANEOUS WATER HEATER

CONDENSATE DRAIN WALL BOX SCHEMATIC