りとはなどし

SCOPE OF WORK:

THE WORK INCLUDED UNDER THIS CONTRACT INCLUDES

TRANSPORTATION, SERVICES, ETC. REQUIRED IN THE CO
AND SHOWN ON ACCOMPANYING DRAWINGS AND AS RE
SPECIAL CONDITIONS ARE HEREBY MADE A PART OF THE CONTRACT DOCUMENTS. ES THE FURNISHING OF ALL LABOR, MATI COMPLETE INSTALLATION OF PLUMBING REQUIRED BY THE CONDITIONS AT THE THIS SECTION. IN ADDITION, WORK IN T MATERIALS,
THE SITE. TH LS, TOOLS,

THE GENERAL A

SECTIONS ARE O

BEFORE SUBMITTING A BID EACH SUBCONTRACTOR SHALL CAREFULLY STUDY THE ARCHITECTURAL DRAWINGS AND SHALL MAKE A CAREFUL EXAMINATION OF THE THE PREMISES AND ANY EXISTING WORK. THE CONTRACTOR SHALL DETERMINE IN ADVANCE THE METHODS OF INSTALLING AND CONNECTING THE APPARATUS, THE MEANS TO BE PROVIDED FOR GETTING THE EQUIPMENT INTO THE SITE, AND SHALL BECOME THOROUGHLY FAMILIAR WITH ALL OF THE REQUIREMENTS OF HIS CONTRACT, BY SUBMITTING A PROPOSAL FOR THE WORK REQUIRED AND INCLUDED IN THE CONTRACT, THE CONTRACTOR SHALL BE DEEMED TO HAVE MADE SUCH STUDY AND EXAMINIATION, AND TO BE FAMILIAR WITH AND ACCEPT ALL CONDITIONS OF THE SITE.

CODES, PERMITS, FEES, INSPECTIONS, RULES, AND REGULATIONS:
THE CONTRACTOR MUST COMPLY WITH ALL NATIONAL, STATE AND TRIBAL BUILDING AND S.
REGULATIONS, RELATING TO BUILDING, PUBLIC HEALTH AND SAFETY, ALL WORK SHALL BE I IN CONFORMANCE WITH THE

INSTALLATION:
THE ENTIRE PLUMBING SYSTEM SHALL BE INSTALLED IN A NEAT, WORKMANLIKE, FINISHED AND SAFE MANNER. CONCEAL
PIPING IN FINISHED AREAS UNLESS NOTES OTHERWISE. ALL PIPING SHALL BE ADEQUATELY SUPPORTED AND INSTALLED
PARALLEL WITH THE BUILDING WALLS. THE ENTIRE INSTALLATION SHALL BE SUBJECT TO THE ARCHITECT'S APPROVAL.

EQUIPMENT LIST AND MAINTENANCE MANUAL:

MAINTENANCE MANUAL SHALL INCLUDE ALL AVAILABLE MANUFACTURERS' OPERATION AND MAINTENANCE INSTRUCTIONS, MORE SET HER WITH THE RECORD DRAWINGS HEREIN BEFORE SPECIFIED, AND ALL OTHER DIAGRAMS AND INSTRUCTIONS NECESSARY TO PROPERLY OPERATE AND MAINTAIN THE EQUIPMENT. THE MANUAL SHALL ALSO INCLUDE THE NAME, ADDRESS, AND PHONE NUMBER OF THE GENERAL CONTRACTOR AND ALL SUBCONTRACTORS INVOLVED IN ANY OF THE WORK SPECIFIED HEREIN. THE EQUIPMENT LIST AND MAINTENANCE MANUAL SHALL BE SUBMITTED IN ACCORDANCE WITH ARCHITECTS SPECIFICATIONS. ELECTRICAL:

WIRING IS INCLUDED UNDER THE ELECTRICAL DIVISION OF THE SPECIFICATIONS. ALL EQUIPMENT, DEVICES, AND WIRING SHALL CONFORM TO THE NATIONAL ELECTRIC CODE OR LOCAL JURISDICTION, WHICH EVER IS MORE STRINGENT. PROVIDE PLUMBING EQUIPMENT HAVING MOTORS WITH MOTOR PROTECTORS, WIRING AND PROPER OPERATION OF THE PLUMBING EQUIPMENT IS THE REPONSIBILITY OF THE PLUMBING CONTRACTOR. ALL WIRING SHALL BE ROUTED IN CONDUIT OR IN PLENUM RATED WIRING. PROVIDE ONE (1) POWER CONNECTION POINT FOR ALL ELECTRICAL WIRING ON ALL EQUIPMENT.

WARRANTY:
THIS SYSTEM SHALL HAVE A
AFTER COMPLETION AND A
AT NO ADDITIONAL COST TO TO THE OWNER. NET LACE OR REP DEFECTIVE

TANCE AND FINAL PAYMENT, 末 CONTRACTOR SHALL DEMONSTRATE THAT

ALL PRODUCTS:
EQUIPMENT USED D FOR C 品品 SAME PURPOSE (SHALL BE OF THE SAME

F VALVES, SERVICE TE AND OPERABLE. ANY NOT THEY SPECIFICALLY I NDICATED, SUCH ACCESS OFOR . THE OPERATION S SYSTEM, SHALS, CONDENSATI ATE TALL

SPECIFIC REFERENCE TO A MANUFACTURER'S PRODUCT IS ONLY TO ESTABLISH TYPE, QUALITY, AND FREQUIRED. THESE QUALIFICATIONS ARE IN ADDITION TO THE REQUIRMENTS SHOWN ON THE DRAWINGS SPECIFICATIONS, LISTING OF ALTERNATE EQUIPMENT MANUFACTURERS SHALL NOT BE CONSTRUED AS APPROVAL OF THE PRODUCTS OF THOSE MANUFACTURERS. CATIONS, PERFORMANCE
S AND HEREIN THESE
S AN UNCONDITIONAL

SUBSTITUTIONS OF MATERIALS OR PRODUCTS SHOWN HEREIN SUBSTITUTIONS OF MATERIALS OR PRODUCTS SHOWN HEREIN SUBSTITUTED EQUIPMENT SHALL BE AT THE DRAWING WILL NOT BE ALLOWED WITHOUT PRIOR APPROVAL. NE CONTRACTOR'S E E OWNERS'S, ARCHITECT'S, C T FILE,. ANY ADDITIONAL C EXPENSE. ANY DEVIATION ANY I

EQUIPMENT SHALL BE LABELED BE LABELED WITH STEEL TA THE YES BOSSED WITH LETTERS, PERMANENTLY

RECORD DRAWINGS:
PROVIDE RECORD DRAWINGS WHICH SHALL CLEARLY
AND INSTALLED. PIPING MAINS BELOW SLAB AND/OR
OF 5 FEET IN LENGTH, SHALL BE DIMENSIONED FROM CADDED TO THE CONTRACT WHICH IS NOT SHOWN ON THE ACCORDANCE THE ARCHITECTS SPECIFICATIONS. THE CONTRACT DOCUMENTS. RECO CT WORK AS DRAWN
), SHOW ALL WORK
S SHALL BE IN

PIPE INSULATION:

HOT WATER PIPING, HOT WATER RETURN PIPING AND COLD WATER
IN RETURN AIR PLENUMS (IF APPLICABLE) SHALL HAVE I"

THICK FIBERGALSS INSULATION WITH ASJ JACKET, HAVING A THERM.

CONDUCTIVITY (K-FACTOR) OF 0.24 AT 15 DEGREES MEAN TEMPER

THE MAXIMUM FIRE HAZARD CLIASSIFICATION OF THE INSULATION
SYSTEM SHALL NOT HAVE MORE THAN A FLAME SPREAD OF 25, AND A FLOONTRIBUTED RATING OF 50, AND A SMOKE DEVELOPED RATING OF 50,
WHEN TESTED IN ACCORDANCE WITH U.L. REQUIREMENTS, PIPE COVERING
SHALL BEAR THE U.L. LABEL.

LAYERS O INSULATE OF INSULATION, WITH PREFABRICATED FITTINGS AND P.Y.C.

USES POLISHED CHROME PLATED ADJUSTABLE BRASS P-TRAPS AND WAST ARMS, WITH WALL ESCUTCHEONS AT ALL EXPOSED LOCATIONS, USE POLISHED CHROME PLATED FAUCETS WITH BRASS BODY AND BRASS HANDLES, FIXTURES AND SUPPLY FITTING SHALL BE AS SPECIFIED. PROVIDE DIAPHRAGM TYPE POLISHED CHROME PLATED FLUSH VALVES WITH INTEGRAL VACUUM BREAKERS AND SCREW DRIVER STOPS OR PROVIDE FIXTURE STOPS AND VALVES AHDEAD OF ALL EQUIPMENT OR FIXTURES AFTER FIXTURES ARE SET IN PLACE AND SECURED TO WALLS, CAULK ALL AROUND BETWEEN FIXTURES AND WALL WITH EITHER "DOW CORNING #180" OR "G.E. CONSTRUNCTION SEALANT" WHITE SILICONE CAULKING COMPOUND. WASTE

TO 125 PSI AND HOLD

4 HOURS

SEWER VENT PIPING E H H ⊅ Ø 100 100 HEAD

EPAIR ALL LEAKS UNTIL SYSTEMS ARE WATERTIGHT, TEST AND POPROVAL ON ALL UNDERGROUND PIPING BEFORE COVERING ROVIDE WRITTEN TESTING REPORT TO ARCHITECT.

STERILIZATION: STERILIZE THE ENTIRE WATER DISTRIBUTION SYSTEM THOROUGHLY WITH A SOLUTION CONTAINING NOT LESS THAN 50 PARTS PER MILLION OF AVAILABLE CHLORINE. FOR CHLORINATING MATERIALS, USE SODIUM HYPOCHLORITE SOLUTION CONFORMING TO FEDERAL SPEC. 0-8-441, GRADE D, AND INSTRODUCE INTO THE SYSTEM BY USE OF A COCK AT A SLOW, EVEN, CONTINOUS RATE. ALLOW THE STERRILIZING SOLUTION TO REMAIN IN THE SYSTEM FOR A PERIOD OF 8 HOURS, DURING WHICH TIME ALL VALVES AND FAUCETS SHALL BE OPENED AND CLOSED SEVERAL TIMES. AFTER STERILIZATION, FLUSH THE SOLUTION FROM THE SYSTEM WITH CLEAN WATER UNTIL THE RESIDUAL CHLORINE CONTENT IS NOT GREATER THAN 0.2 PARTS PER MILLION. PLATE COUNT SHALL INDICATE COUNT LESS THAN 100 BACTERIA PER CC.

TESTING CERTIFICATION:

CERTIFY THAT SPECIFIED TESTS, INSPECTIONS, AND PROCEDURES HAVE BEEN PERFORMED ACCORDING TO THE REQUIREMENTS IN NFPA 99 AND CERTIFIY REPORT RESULTS, INCLUDE THE FOLLOWING: INSPECTIONS PERFORMED, PROCEDURES, MATERIALS, AND CAGES USED, TEST METHODS USED, AND RESULTS OF TESTS.

AT THE COMPLETION OF THE WORK AND PRIOR TO FINAL ACCEPTANCE, ALL PARTS OF THE WORK INSTALLED UNDER THIS SPECIFICATION SHALL ETHOROUGHLY CLEANED, ALL EQUIPMENT, FIXTURES, PIPE VALVES AND FITTINGS SHALL BE CLEANED OF GREASE, METAL CUTTINGS AND SLUDGE, WHICH MAY HAVE ACCUMULATED BY OPERATION OF THE SYSTEM FOR FHGBWPK.HEREIN BEFORE SPECIFIED OR FROM OTHER CAUSES.

GENERAL NOTE NOTE

- ARCHITECTURAL DRAWINGS

 2. BEFORE SUBMITTING BID, THE PLUMBING CONTRACTOR SHALL REVIEW THE ARCHITECTURAL DRAWINGS AND INCLUDE IN HIS BID AN AMOUNT TO FURNISH AND INSTALL ANY FIXTURES WHICH ARE SHOWN IN ADDITION TO FIXTURES SHOWN ON THE PLUMBING DRAWINGS

 3. CONTRACTOR SHALL VERIFY INVERT ELEVATIONS OF SEWERS TO WHICH NEW WASTE LINES ARE TO BE CONNECTED BEFORE MAKING UP OR INSTALLATION OF NEW WASTEM.

 4. CONTRACTOR SHALL VERIFY AND COORDINATE LOCATION OF ALL PLUMBING LINES WITH DUCTWORK AND ELECTRICAL SERVICES.

 5. THE INSTALLATION OF ALL VALVES UNIONS THERMOMETERS, GAUGES, OR OTHER INDICATING OR RECORDING EQUIPMENT, OR SPECIALTIES REQUIRING FREUQUENT READING, REPARIS, ADJUSTMENT, INSPECTION, REMOVAL OR REFPLACEMENT SHALL BE CONVIENTLY AND ACCESSIBLY LOCATED WITH REFRENCE TO THE FINISHED BUILDING.

 6. ALL VENTS THROUGH ROOF SHALL BE 16' -6" REMOVED FROM ALL AIR BUILDING.
- 1. WHERE POSSIBLE, TIE VENTS TOGETHER SO THAT A MINIMUM TERMINATE THROUGH THE ROOF.

 8. CONTRACTOR SHALL NOT OUT HOLES IN STRUCTURAL MEMBERST SECURING WRITTEN APPROVAL FROM THE ARCHITECT OR FIRST SECURING WRITTEN APPROVAL FROM THE ARCHITECT OR FIRST SECURING SHALL INSTALL DIELECTRIC UNIONS AT CONNEDISSIMILAR METALS.

 10. CONTRACTOR SHALL ROUGH-IN ALL WASTES AND SUPPLIES EQUIPMENT ACCORDING TO MANUFACTURERS SHOP DRAWINGS AFINAL CONNECTIONS, ALL SUPPLIES SHALL BE VALVED. MEMBERS WITHOUT

DEFECTS AND BE PROPERLY IDENTIFIED

OUINAUL

INDIAN

M ASTM

ALL PEX PIPE : ASTM FIBOT. FITTINGS $\dot{\overline{\alpha}}$ M CRIME

SOIL, WASTE, A SOIL, WASTE, A CONFORM TO AND VENT PIF

QUINAULT

14 WEST QUINAULT ST. TAHOLAH, WA 985 ph (360) 276-8215 cell (360) 590-1866

WWW.QUINAULTINIDIANNATION.COM

ENGINEERING

<u>20</u>E O WASTE PIPIN NG 3" AND 8 OF 1/8" 1

UNIONS:

PROVIDE A UNION BETWEEN COONNECTIONS OF DISSIMILIAR Y N CONNECTIONS TO EACH FIXTURE, DEVICE NNECTING OF PIPING, PROVIDE DIELECTRIC

WATTS B-3 G STEM FOR A

CHECK VALVES: WATTS B-5
VALVE WITH HORIZONTAL BF
F-511-IBBM, 125#, IRON BOD'S
VALVE FOR ALL VALVES LA Ţ LDER JOINT CHECK
UP TO 2" SIZE. WATTS
HORIZONTAL CHECK

PROJECT:

SCALE none

CANOE JOURNEY 2013

AND BEYOND

REVISION: A.1

BALL VALVES: RIFENG BR VALVES WITH CRIMP

PIPE HANGERS:
PIPE HANGERS (
SIZES 1/2" TO 1" F PEX PIPING

DESIGNED BY:

DATE:

BJM/NPW

9/7/2012

PLUMBING **X ATURE** Щ の世の TIONS:

WCI-WATER CLOSET ADA (ADA COMPLIANT KOHLER R WELLWORTH ONLET IN WHITE. IN

LAVI-LAVATORY ADA (BA TH-1,2,3,4)

KOHLER THOREAU COUNTER TOP N CENTERS

BTHI-BATH WITH SHOWER SAFEGUARD T CAST IRON ODEL#K-838 IRON BATHTUB

UTH2-UATH WITH SHOWER SURROUND ADA (BATH-2)

SHEET CONTENTS:

PLUMBING

SPECIFICATIONS

SAFEGUARD

A D A ADA (BATH-I)
DA COMPLIANT NOLL-IN

FIAT MOLDED STONE MODEL# MSB2424

REVISION HISTORY:

HWI-HOT WATER HE AO SMITH 80 GAL

240 YOLT HYDRANT, ECTalanod \(\frac{1}{2}\) 70

55*0*9Q

	プログラスの大学	X		7		C II	$\frac{2}{5}$	700	、エサフューサ
2 > 7		=	\)	- - -	#XT	ATURE UNITS	76) 1100 1100 1100 1100 1100 1100 1100 11
777		ε.		() E	1.8	∨≇w	C.W.	Ħ.W.	
S E C	MATER CLOSET	4"	2"	1/2"	1	4	2.5	1	
LAY	TAO1AVAL	2"	2"	1/2"	1/2"	4	S	w	
#T#	BATH W/ SHWR	υ _ν	2"	1/2"	1/2"	4	4	4	
H	SHOWER	υ _ν	2"	1/2"	1/2"	4	4	4	
6 6	SERVICE SINK	2"	2"	1/2"	1/2"	3	3	w	
Ü	109E BIB		1	1/2"			2.5	ļ	

CUSTOMER: QUINAULT INDIAN NATION LOCATION: TAHOLAH, WA