38. CONSTRUCTION INSTALLATION OF ALL FFFFFFPLUMBING AND HIVRATING PIPE MATERIALS, INCLUDE IS REQUIRED TO INSTALLATION. INSTALL FFFFFFPLUMBING AND HIVRATING PIPE MATERIALS, INCLUDE FFFFFFPLUMBING AND HIVRATING PIPE MATERIALS, INCLUDE incorporation WITH ALL INSTALLATION PROCEDURES.
REFER TO DRAWINGS FOR DETAILED SCOPE OF WORK.

PROVIDE ELECTRICAL POWER SUPPLY TO THE THREE (N) FLOOR MOUNTED INSTANTANEOUS WATER HEATERS INCLUDING VALVES, DRIP LEG, SUPPORTS AND SEISMIC BRACING.

INCLUDING DIGITAL MIXING VALVE, ISOLATION VALVES, WATER TEMPERATURE SENSORS, PROVIDE (N) ELECTRONIC TYPE DOMESTIC HOT WATER THERMOSTATIC MIXING STATION WATER HEATERS INCLUDING VALVES, DRIP LEG, SUPPORTS AND SEISMIC BRACING.

PROVIDE THREE FLOOR MOUNTED (N) 499.999 MBH INSTANTANEOUS WATER HEATERS AND PLUMBING NEW WORK

REFER TO DRAWINGS FOR DETAILED DEMOLITION SCOPE OF WORK.

REMOVE THE (E) WATER HEATER WH-1 AND WH-2 INCLUDING NATURAL GAS WATER, DOMESTIC WATER PIPING INSIDE THE MECHANICAL ROOM COMPLETE WITH VALVES, FITTINGS, SUPPORTS AND OTHER ASSOCIATED APPURTENANCES.

PROVIDE TEMPORARY NATURAL GAS PIPING FROM AND TO TEMPORARY WATER HEATER AND EXISTING MAIN DOMESTIC HOT WATER RETURN PIPING (150-POUND WITH FITTINGS, CORRUGATED INNER WALL AND STAINLESS STEEL EXHAUST FLUE VENT, SUPPORTS. REFER TO DRAWING P201 FOR PLUMBING TEMPORARY WORK.

FOR BID

1. REFER TO SPECIFICATION 22 34 00 FUEL-FIRED, DOMESTIC WATER HEATER FOR DETAILED PRODUCT INFORMATION AND REQUIREMENTS.

2. PROVIDE EACH WATER HEATER WITH BACNET COMMUNICATION CARD INCLUDING CONTROL WIRING AND INTERFACE TO THE NEW PLUMBING DIRECT DIGITAL CONTROLLER FOR REMOTE MONITORING AND CONTROL.

3. PROVIDE 16 GALLONS PER HOUR CONDENSATE NEUTRALIZER FOR EACH WATER HEATER, JJM BOILER WORKS OR AXIOM INDUSTRIES MODEL NT15.

4. PROVIDE INSULATED DOUBLE WALLED AL29-4C STAINLESS STEEL EXHAUST FLUE VENTING SYSTEM UP THRU ROOF COMPLETE WITH ROOF PENETRATION WEATHERPROOF SEALING SYSTEM, ADJUSTABLE ROOF FLASHING AND EXHAUST FLUE VENT RAIN CAP.

5. PROVIDE STEEL MOUNTING BRACKET ATTACHED TO WATER HEATER AND SEISMICALLY ANCHOR TO EXISTING CONCRETE FLOOR.

WATER HEATER SHALL BE INDOOR TYPE.

WATER HEATERS TO SERVE AS ONE-MACHINE IN ONE BUILDING PER COUNTY OF NAPA COUNTY OF NAPA.

PLUMBING TEMPORARY WORK

1. PROVIDE TEMPORARY WATER SUPPLY TO THE THREE (N) FLOOR MOUNTED INSTANTANEOUS WATER HEATERS INCLUDING VALVES, DRIP LEG, SUPPORTS AND SEISMIC BRACING.

2. PROVIDE TEMPORARY DOMESTIC WATER SUPPLY AND RETURN INSULATED FLEXIBLE HOSE PIPING HIGH-LOW WITH STAINLESS STEEL EXHAUST FLUE VENT, SUPPORTS AND OTHER ASSOCIATED APPURTENANCES.

3. PROVIDE TEMPORARY WATER HEATER DRAIN, & CONDENSATE DRAINAGE FOR DETAILED SPECIFICATION OF ALL SIZES ABOVE GROUND OR EXPOSED TEMPORARY NATURAL PIPING AND FITTINGS.

PLUMBING DEMOLITION WORK

1. PROVIDE TEMPORARY WATER SUPPLY FOR THE THREE (N) FLOOR MOUNTED INSTANTANEOUS WATER HEATERS AND EXISTING MAIN NATURAL GAS PIPING ASSEMBLY OUTSIDE THE MECHANICAL ROOM COMPLETE WITH VALVES, FITTINGS, SUPPORTS AND OTHER ASSOCIATED APPURTENANCES.

2. PROVIDE TEMPORARY NATURAL WATER SUPPLY AND RETURN INSULATED FLEXIBLE HOSE PIPING HIGH-LOW WITH STAINLESS STEEL EXHAUST FLUE VENT, SUPPORTS AND OTHER ASSOCIATED APPURTENANCES.

3. PROVIDE TEMPORARY DOMESTIC HOT WATER RETURN PIPING (150-POUND WITH FITTINGS, CORRUGATED INNER WALL AND STAINLESS STEEL EXHAUST FLUE VENT, SUPPORTS. REFER TO DRAWING P201 FOR PLUMBING TEMPORARY WORK.

PLUMBING NEW WORK

1. PROVIDE TEMPORARY WATER SUPPLY TO THREE (N) FLOOR MOUNTED INSTANTANEOUS WATER HEATERS INCLUDING VALVES, DRIP LEG, SUPPORTS AND SEISMIC BRACING.

2. PROVIDE TEMPORARY DOMESTIC WATER SUPPLY AND RETURN INSULATED FLEXIBLE HOSE PIPING HIGH-LOW WITH STAINLESS STEEL EXHAUST FLUE VENT, SUPPORTS AND OTHER ASSOCIATED APPURTENANCES.

3. PROVIDE TEMPORARY WATER HEATER DRAIN, & CONDENSATE DRAINAGE FOR DETAILED SPECIFICATION OF ALL SIZES ABOVE GROUND OR EXPOSED TEMPORARY NATURAL PIPING AND FITTINGS.

4. PROVIDE TEMPORARY GAS FEED PIPES IN STAINLESS STEEL EXHAUST FLUE VENTING SYSTEM UP THRU ROOF COMPLETE WITH ROOF PENETRATION WEATHERPROOF SEALING SYSTEM, ADJUSTABLE ROOF FLASHING AND EXHAUST FLUE VENT RAIN CAP.

5. PROVIDE STEEL MOUNTING BRACKET ATTACHED TO WATER HEATER AND SEISMICALLY ANCHOR TO EXISTING CONCRETE FLOOR.

WATER HEATER SHALL BE INDOOR TYPE.
1. Install (N) wall mounted remote red flashing strobe light complete with wall mounted identification label "Water Heater Alarm", power wiring, conduit, and supports.

2. Install (N) electrical power wiring in rigid metal conduit above ceiling from (N) water heater control panel to (N) wall mounted remote red flashing strobe light.

3. Install temporary if domestic hot water supply and return insulated flexible hose piping (150-pound with fittings, corrugated inner wall and stainless-steel outer wall) from and to outdoor type natural gas-fired, temporary 1,500,000 BTUH capacity domestic water heater at minimum 41 GPM water flow rate and 140°F domestic water temperature to supply facility plumbing domestic hot water system for continued operation.

4. Connect temporary if domestic hot water supply and return insulated flexible hose piping (150-pound with fittings, corrugated inner wall and stainless-steel outer wall) from and to outdoor type natural gas-fired, temporary domestic water heater.

5. Connect temporary if domestic hot water supply and return insulated flexible hose piping (150-pound with fittings, corrugated inner wall and stainless-steel outer wall) from and to outdoor type natural gas-fired, temporary domestic water heater and existing main PG&E natural gas meter assembly outside the mechanical room complete with valves, fittings, supports and other associated appurtenances.

6. Run temporary if domestic hot water supply and return insulated flexible hose piping (150-pound with fittings, corrugated inner wall and stainless-steel outer wall) from and to outdoor type temporary domestic water heater and existing main PG&E natural gas meter assembly.

7. Connect outdoor temporary natural gas piping to (E) NG stub-out at existing PG&E main natural gas meter assembly complete with fittings and supports refer to detail 1.

8. Install temporary if domestic hot water supply and return insulated flexible hose piping (150-pound with fittings, corrugated inner wall and stainless-steel outer wall) from and to outdoor type temporary domestic water heater and existing main PG&E natural gas meter assembly complete with valves, fittings, supports and other associated appurtenances.

9. Connect outdoor temporary natural gas piping to (E) NG stub-out at existing main PG&E natural gas meter assembly complete with fittings and supports refer to detail 1.

10. Contractor shall submit product submittal and shop drawings of the temporary domestic water heater, hot water supply and return insulated flexible hose piping, natural gas piping and associated if fittings for review and approval prior to start of work.
1. ENLARGED ROOF PLANS FOR DETAILED PLUMBING DEMOLITION AND NEW WORK.
KEY NOTES:

1. DEMOLISH 6" STAINLESS STEEL METALBESTO TYPE GAS FLUE VENT FROM DOMESTIC HOT WATER HEATER INCLUDING CONNECTED VALVES, FITTINGS, AND SUPPORTS.

2. DEMOLISH 2" DOMESTIC HOT WATER HEATER, VERTICAL DOMESTIC HOT WATER STORAGE TANK INCLUDING CONNECTED VALVES, FITTINGS, AND SUPPORTS.

3. DEMOLISH NATURAL GAS PIPING TO DOMESTIC HOT WATER STORAGE TANK, AND BUILDING HWR PIPING INCLUDING CONNECTED VALVES, FITTINGS, AND SUPPORTS.

4. DEMOLISH 2" DOMESTIC HOT WATER SUPPLY AND RETURN FLEXIBLE PIPING TO TEMPORARY OUTDOOR RENTAL NATURAL GAS-FIRED DOMESTIC WATER HEATER. DEMOLISH WALL MOUNTED DOMESTIC WATER HEATER HEATER ISOLATION PANEL, INCLUDING POWER AND CONTROL WIRING, AND SUPPORTS.

5. DEMOLISH WALL MOUNTED DOMESTIC WATER HEATER INCLUDING CONNECTED VALVES, FITTINGS, AND SUPPORTS.

6. INSTALL MOVABLE OUTDOOR RENTAL NATURAL GAS-FIRED DOMESTIC WATER STORAGE TANK, AND BUILDING HWR PIPING INCLUDING CONNECTED VALVES, FITTINGS, AND SUPPORTS.

7. CONNECT TEMPORARY RENTAL 2" OUTDOOR TYPE DOMESTIC HOT WATER SUPPLY FLEXIBLE PIPING TO 2 1/2" WALL MOUNTED DOMESTIC WATER HEATER INCLUDING CONNECTED VALVES, FITTINGS, AND SUPPORTS.

8. INSTALL EXPANSION TANK COMPLETE WITH ISOLATION BALL VALVE AND 4" LONG DRAIN PIPE WITH 110° F TANK DRAIN VALVE FOR DEFLATION, FITTINGS, AND SUPPORTS.

9. INSTALL MEDIUM TRAVELING THERMAL MIXING VALVE STATION.

10. INSTALL MEDIUM TRAVELING THERMAL MIXING VALVE STATION, POWER AND CONTROL WIRING, AND SUPPORTS.

11. INSTALL DOMESTIC WATER HEATER PIPING DIAGRAM—DEMOLITION WORK

12. INSTALL OUTDOOR TYPE DOMESTIC HOT WATER HEATER VERTICAL DOMESTIC HOT WATER STORAGE TANK, INCLUDING CONNECTED PIPING, VALVES, FITTINGS, AND SUPPORTS.

13. INSTALL OUTDOOR TYPE DOMESTIC HOT WATER HEATER VERTICAL DOMESTIC HOT WATER STORAGE TANK, AND BUILDING HWR PIPING INCLUDING CONNECTED VALVES, FITTINGS, AND SUPPORTS.

14. INSTALL ELECTRICAL POWER SUPPLY WORKS TO 20 ELECTRICAL RECESSED OUTLETS, AND BUILDING HWR PIPING INCLUDING CONNECTED VALVES, FITTINGS, AND SUPPORTS.

15. INSTALL ELECTRICAL POWER SUPPLY WORKS TO 20 ELECTRICAL RECESSED OUTLETS, AND BUILDING HWR PIPING INCLUDING CONNECTED VALVES, FITTINGS, AND SUPPORTS.
KEY NOTES:

1. REFER TO DRAWING P311 FOR NATURAL GAS DETAILED PIPE LAYOUT AND SCOPE OF WORK.
2. REFER TO DRAWING P312 FOR DOMESTIC HOT WATER DETAILED PIPE LAYOUT AND SCOPE OF WORK.
3. REFER TO DRAWING P313 FOR DOMESTIC COLD WATER DETAILED PIPE LAYOUT AND SCOPE OF WORK.
4. REFER TO DRAWING P313 FOR DOMESTIC HOT WATER DETAILED PIPE LAYOUT AND SCOPE OF WORK.

(E) DOMESTIC HOT WATER EXPANSION TANK
(E) 4" CW MAIN PIPING RISER
(E) 4" FP MAIN SPRINKLER RISER
(E) 1/2" HW EXPANSION LINE
(E) 1/2" SP
(E) 2 1/2" HW @ 140°F
(E) 3/4" HWR @ 125°F
(E) 3" CW
(E) 1 1/2" TW @ 130°F
(E) 3/4" TW @ 130°F
(E) 1" HWR @ 125°F
(E) 1" TWR @ 120°F
(E) 3/4" TWR @ 130°F
(E) 1 1/2" THERMOSTATIC MIXING VALVE
(E) 3" CW
(E) 4" NG

(N) 24"x24"x4" HOUSEKEEPING PAD (TYP)

IWH

1. 2 1/2" OUTDOOR TYPE DOMESTIC HOT WATER SUPPLY FLEXIBLE PIPING TO TEMPORARY OUTDOOR RENTAL NATURAL GAS-FIRED DOMESTIC WATER HEATER.
2. CONNECT TEMPORARY RENTAL 2 1/2" OUTDOOR TYPE DOMESTIC HOT WATER SUPPLY FLEXIBLE PIPING TO (E) 2 1/2" MAIN HWS PIPING INSIDE THE MECHANICAL ROOM COMPLETE WITH ISOLATION BALL VALVE, FITTINGS, INSULATION, AND SUPPORTS.

MINIMUM MAINTENANCE CLEARANCE PER IWH MANUFACTURER RECOMMENDATION.

SEISMICALLY ANCHOR (N) IWH TO NEW CONCRETE HOUSEKEEPING PAD. REFER TO DRAWING 1/P501 FOR SEISMIC ANCHORING DETAIL.

CHIMNEY ROUND TOP (SELKIRK MODEL CT) FOR (N) 4" Ø STAINLESS STEEL METALBESTOS TYPE PS RISER WITH VENTILATED ROOF THIMBLE ASSEMBLY (SELKIRK MODEL MVT).

CONNECT TEMPORARY RENTAL 2 1/2" OUTDOOR TYPE DOMESTIC HOT WATER SUPPLY FLEXIBLE PIPING TO TEMPORARY OUTDOOR RENTAL NATURAL GAS-FIRED DOMESTIC WATER HEATER.
KEY NOTES:
1. (N) 1 1/2" NG PIPING RISER DOWN AND CONNECT TO (N) IWH COMPLETE WITH ISOLATION BALL VALVE, FITTINGS, DRIP LEG WITH SCREW-END CAP, UNION, AND SUPPORTS.
2. (N) 1 1/2" NG PIPING RISER WITH ISOLATION BALL VALVE AND CAP FOR FUTURE CONNECTION TO FUTURE IWH.
3. (E) 4" NG DRIP LEG WITH SCREW-END CAP. TYPICAL FOR ALL IWH NG SUPPLY.
4. CONNECT (N) 1 1/2" NG TO (E) 4" NG COMPLETE WITH THREADED TYPE 4"X4"X4" TEE AND 4"X1 1/2" REDUCER FITTING, AND SUPPORTS.
5. (N) UNION.
6. (N) 1 1/2" NG PIPING AT 11'-1" BOP.
KEY NOTES:

1. INTERNAL THERMOSTATIC MIXING STATION EXISTING COMPLETE WITH ELECTRONIC MIXING VALVE, CHECK VALVES, ISOLATION BALL VALVES, WATER TEMPERATURE SENSOR, Fittings, Power and Control Wiring, BACNET Communications Card, Control Panel, Water Temperature Sensor, and Seismic Bracing. Below are the Basis of Design Details:

   - Electronic Mixing Valve with Integral Temperature Sensor
   - Deliver Mixed Water Flow of 41 GPM @ 30 PSI Pressure Drop
   - Maintain Mixed Temperature At 0.25 GPM
   - RTD Probes at Inlet Hot, Inlet Cold, Outlet, and Hot Water Return


3. Connect (N) 2 1/2"Ø HW to (E) 2 1/2" Ø HW Complete with Fittings, Insulation and Supports.

4. (N) 1 1/2"Ø CW Piping Stub Out with Isolation Ball Valve and Cap for Future Connection to Future IWH-4.

5. (N) 1 1/4"Ø HW Piping Riser with Isolation Ball Valve and Cap for Future Connection to Future IWH-4.


7. (N) 1 1/2"Ø HW Piping Riser Down and Connect to (N) IWH Complete with Isolation Ball Valve, Fittings, Union, Insulation, and Supports.

8. Connect (N) 1 1/2"Ø CW Piping to (N) IWH Complete with Isolation Ball Valve, Fittings, Union, and Supports.

9. Connect (N) 3/4"Ø HWR Piping to (N) IWH Complete with Isolation Ball Valve, Fittings, Union, Insulation, and Supports.

10. (N) Cap at End of Pipe or Fitting.

11. Connect (N) 3"Ø CW to (E) 3"Ø CW Complete with Fittings and Supports.

12. Connect (N) 1 1/4"Ø CW to (E) 1 1/4"Ø CW Complete with Fittings and Supports.

13. Connect (N) 1 1/2"Ø TW to (E) 1 1/2"Ø TW Complete with Fittings and Supports.

14. Connect (N) 3 1/2"Ø TW Complete with Fittings, Insulation and Supports.

15. Connect (N) 1 1/4"Ø HW to (E) 1 1/4"Ø HW Piping Complete with Fittings, Insulation and Supports.

16. Connect (N) 1/2"Ø HWR to (E) 1/2" Ø HWR Piping Complete with Fittings, Insulation and Supports.

17. (N) Heat Trap.

18. (N) 1/2"Ø HW with Isolation Ball Valve Normally Closed Position, Fittings, Insulation and Supports.

19. (N) HW Interface Controller.

20. Connect (N) 2"Ø HWR Piping to (E) 3"Ø HWR Complete with Fittings, Insulation and Supports.
WATER HEATER MOUNTING DETAIL

1/2" Ø POWER-STUD + SD2 DEWALT TYPE 316 STAINLESS STEEL W/ 2 1/2" NOM EMBED AND MIN. 9" EDGE DISTANCE INSTALL PER ESR-2503 REPORT (TYP)

ELEVATION FRONT VIEW

ELEVATION SIDE VIEW

MIN. 3.00 P.I. LINES
4" THICK HOUSEKEEPING PAD

MIN. 9" MIN.

MIN. 9" MIN.

FLOOR ANCHOR PLAN

ELEVATION FRONT VIEW

ELEVATION SIDE VIEW

MIN. 3.00 P.I. LINES
4" THICK HOUSEKEEPING PAD

MIN. 9" MIN.

MIN. 9" MIN.

FLOOR ANCHOR PLAN

WATER HEATER MOUNTING DETAIL

NOTE: CONTRACTOR SHALL LOCATE (E) REINFORCEMENT IN SLAB-ON-GRADE BEFORE DRILLING, FOR EPOXY Dowels. CONTRACTOR SHALL FILL ABANDONED HOLES FOR DOWELS W/ EPOXY ADHESIVE IN CASE (E) REINF IS ENCOUNTERED.

CONTRACTOR SHALL STOP DRILLING AND CONTACT KOTR IN CASE (E) REINF IS CUT OR DAMAGED, IN SLAB-ON-GRADE.

SEE MECHANICAL OR ARCHITECTURAL DWGS FOR DIMENSIONS AND LOCATION

1/2" THICK CONCRETE SLAB CONFORMING TO 9" BARS @ 12" OC, MIN.

IN DOUBLE @ 1/2" OR AL ALONG PERIMETER OF PAD IN FOOTSTOOL

PROVIDE ROUNDED SURFACES & 1/8" AMPLITUDE, BY TAMPERING WET CONCRETE OR CHIPPING HARDENED CONCRETE.

1 1/2" CLR TYP

3" EMBED TYP

TYPICAL EQUIPMENT PAD @ SLAB ON GRADE

BOILER FLUE ROOF PENETRATION

NOTE: CONTRACTOR SHALL LOCATE (E) REINFORCEMENT IN SLAB-ON-GRADE BEFORE DRILLING, FOR EPOXY Dowels. CONTRACTOR SHALL FILL ABANDONED HOLES FOR DOWELS W/ EPOXY ADHESIVE IN CASE (E) REINF IS ENCOUNTERED.

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1 1/2" CLR TYP

3" EMBED TYP

TYPICAL EQUIPMENT PAD @ SLAB ON GRADE

BOILER FLUE ROOF PENETRATION

NOTE: CONTRACTOR SHALL LOCATE (E) REINFORCEMENT IN SLAB-ON-GRADE BEFORE DRILLING, FOR EPOXY Dowels. CONTRACTOR SHALL FILL ABANDONED HOLES FOR DOWELS W/ EPOXY ADHESIVE IN CASE (E) REINF IS ENCOUNTERED.

CONTRACTOR SHALL STOP DRILLING AND CONTACT KOTR IN CASE (E) REINF IS CUT OR DAMAGED, IN SLAB-ON-GRADE.

SEE MECHANICAL OR ARCHITECTURAL DWGS FOR DIMENSIONS AND LOCATION

1/2" THICK CONCRETE SLAB CONFORMING TO 9" BARS @ 12" OC, MIN.

IN DOUBLE @ 1/2" OR AL ALONG PERIMETER OF PAD IN FOOTSTOOL

PROVIDE ROUNDED SURFACES & 1/8" AMPLITUDE, BY TAMPERING WET CONCRETE OR CHIPPING HARDENED CONCRETE.

1 1/2" CLR TYP

3" EMBED TYP

TYPICAL EQUIPMENT PAD @ SLAB ON GRADE

BOILER FLUE ROOF PENETRATION

NOTE: CONTRACTOR SHALL LOCATE (E) REINFORCEMENT IN SLAB-ON-GRADE BEFORE DRILLING, FOR EPOXY Dowels. CONTRACTOR SHALL FILL ABANDONED HOLES FOR DOWELS W/ EPOXY ADHESIVE IN CASE (E) REINF IS ENCOUNTERED.

CONTRACTOR SHALL STOP DRILLING AND CONTACT KOTR IN CASE (E) REINF IS CUT OR DAMAGED, IN SLAB-ON-GRADE.

SEE MECHANICAL OR ARCHITECTURAL DWGS FOR DIMENSIONS AND LOCATION

1/2" THICK CONCRETE SLAB CONFORMING TO 9" BARS @ 12" OC, MIN.

IN DOUBLE @ 1/2" OR AL ALONG PERIMETER OF PAD IN FOOTSTOOL

PROVIDE ROUNDED SURFACES & 1/8" AMPLITUDE, BY TAMPERING WET CONCRETE OR CHIPPING HARDENED CONCRETE.

1 1/2" CLR TYP

3" EMBED TYP

TYPICAL EQUIPMENT PAD @ SLAB ON GRADE

BOILER FLUE ROOF PENETRATION

NOTE: CONTRACTOR SHALL LOCATE (E) REINFORCEMENT IN SLAB-ON-GRADE BEFORE DRILLING, FOR EPOXY Dowels. CONTRACTOR SHALL FILL ABANDONED HOLES FOR DOWELS W/ EPOXY ADHESIVE IN CASE (E) REINF IS ENCOUNTERED.

CONTRACTOR SHALL STOP DRILLING AND CONTACT KOTR IN CASE (E) REINF IS CUT OR DAMAGED, IN SLAB-ON-GRADE.

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