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SUMMARY OF WORK

STATE PROJECT NO.: DCF – 18040200

PART 1 – GENERAL

1.1 SUMMARY

A. The Florida Department of Children and Families (DCF) (Owners) General Services (GS), in conjunction with Northeast Florida State Hospital Maintenance will provide construction administration for this project.

B. All work will be at the Northeast Florida State Hospital located at, 7487 South State Road 121, Macclenny, Florida, 32211

The project scope of work is to complete multiple scopes of work to the boiler plant.

Only one boiler will be allowed to be taking out of service at a time for the upgrade. Once the first boiler is repaired / upgraded and operational, the second boiler can be taking out of service for repairs / upgrades.

1. Remove the insulation from Boiler # 1 exhaust between the boiler and the roof deck. Have the metal inspected for thickness. If it is below the minimum safety thickness or the exhaust is rusted and or has holes, replace the boiler exhaust with a new Stainless steel 10 gauge Thickness exhaust section. Re-insulate with fiberglass pipe wrap (Knauf). Put old exhaust in the NEFSH scrap yard. Dispose of the old insulation. If the exhaust is safe to keep in operation, then just reinsulate. Provide a cost for the exhaust removal and replacement in the bid package. If the work is not completed it will not be billed in the contract.

2. Remove the insulation from Boiler # 3 exhaust between the boiler and the roof deck. Have the metal inspected for thickness. If it is below the minimum safety thickness or the exhaust is rusted and or has holes, replace the boiler exhaust with a new Stainless steel 10 gauge Thickness exhaust section. Re-insulate with fiberglass pipe wrap (Knauf). Put old exhaust in NEFSH scrap yard. Dispose of the old insulation. If the exhaust is safe to keep in operation, then just reinsulate. Provide a cost for the exhaust removal and

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replacement in the bid package. If the work is not completed it will not be billed in the contract.

3. Boiler circulating pump. Supply a new **RS Corcoran Model 500 F (A70-2)** circulating pump with upper and lower pressure reading ports (½ tap on the inlet and outlet pipe). Include SS Fitted Carbon Steel 4x3 300# Flange, 9-1/8” enclosed impeller, single seal, metal bellow type 5006-970SC40T SiC vs Sic, TFE O-Rings, Hastelloy C Metal, Pinned-In Seat, jacketed stuffing box, bearing pedestal cooler. Supply an additional pump to have as a backup. Also, supply two each shaft seals for the pimp, and two each flange gaskets to install the pump.

4. Supply and install a new main crossover valve from Boiler # 1 to boiler # 2. Put old valve in NEFSH scrap yard. Valves will be a triple offset, butterfly valve, gate takeout, ANST – 300 lb class, double flange, ASME B16.10, ASTM A216 gr. wcb. and A564. Reuse hand wheel and chain if possible. Valve flange and extension will need to be field measured and verified. Minimum valve requirements is a 5-year warranty and minimum temperature rating of 400 deg. Reinsulate if required. Coordination work to minimize the boiler or facility downtime.

5. Supply and install a new main crossover valve from Boiler # 2 to boiler # 3. Put old valve in NEFSH scrap yard. Valves will be a triple offset, butterfly valve, gate takeout, ANST – 300 lb class, double flange, ASME B16.10 ASTM A216 gr. wcb. and A564. Reuse hand wheel and chain if possible. Valve flange and extension will need to be field measured and verified. Minimum valve requirements is a 5-year warranty and minimum temperature rating of 400 deg. Reinsulate if required. Coordination work to minimize the boiler or facility downtime.

6. Supply and install a new valve on the bottom of the large expansion tank. Put old valve in NEFSH scrap yard. Valves will be a triple offset, butterfly calve, gate takeout, ANST – 300 lb class, double flange, ASME B16.10 ASTM A216 gr. wcb. and A564. Reuse hand wheel and chain if possible. Valve flange and extension will need to be field measured and verified. Minimum valve requirements is a 5-year warranty and minimum temperature rating of 400 deg. Reinsulate if required. Coordination work to minimize the boiler or facility downtime.

7. Supply and install a new valve on the return side of the outside high temperature hot water. Put old valve in NEFSH scrap yard. Valves will be a triple offset, butterfly valve, gate takeout, ANST – 300 lb class, double flange, ASME B16.10 ASTM A216 gr. wcb. and A564. Reuse hand wheel and chain if possible. Valve flange and extension will need to be field measured and verified. Minimum valve requirements is a 5-year warranty and minimum temperature rating of 400 deg. Reinsulate if required. Coordination work to minimize the boiler or facility downtime.

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8. Supply and install a new inlet and outlet high temperature hot water valve for boiler # 3. Put old valve in NEFSH scrap yard. Valves will be a triple offset, butterfly valve, gate takeout, ANST – 300 lb class, double flange, ASME B16.10 ASTM A216 gr. wcb. and A564. Reuse hand wheel and chain if possible. Valve flange and extension will need to be field measured and verified. Minimum valve requirements is a 5-year warranty and minimum temperature rating of 400 deg. Reinsulate if required. Coordination work to minimize the boiler or facility downtime.

9. Supply and install a new exhaust fan (based on original design calculations) where the fan does not work by the inlet and outlet pipe steam pipes and above the air bleed off valves. Put old fan in NEFSH scrap yard.

10. Camera the floor drains to find out why they will not drain. Put in a \$ 10,000.00 dollar budget number to repair drains. Detailed cost number to repair the drains will be provided to the owner after the camera inspection. DCF will review the detailed proposal to determine if they will repair the drains. If the money is not allocated for the work, then the \$ 10,000 dollars will not be billed in the contract. Show the \$ 10,000 dollars in schedule of values.

11. Supply and install a new exhaust fan (based on original design calculations) where the fan does not work in the main electrical room for the boiler plant. Put old fan in NEFSH scrap yard.

Alternate # 1.

Supply and install a new valve on the supply side of the outside high temperature hot water. Put old valve in NEFSH scrap yard. Valves will be a triple offset, butterfly valve, gate takeout, ANST – 300 lb class, double flange, ASME B16.10 ASTM A216 gr. wcb. and A564. Reuse hand wheel and chain if possible. Valve flange and extension will need to be field measured and verified. Minimum valve requirements is a 5-year warranty and minimum temperature rating of 400 deg. Reinsulate if required. Coordination work to minimize the boiler or facility downtime.

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1. Contractor will maintain a clean site on a daily basis. Area beyond construction site operations are not to be disturbed. Site constraints will be coordinated with Northeast Florida State Hospital maintenance staff on a map before commence of work. Lay down site will be designated at the pre-bid meeting. We will also determine if the site needs fencing.
2. Keep driveways and entrances clear at all times. Do not use these areas for parking or storage of materials. Schedule deliveries to the site, to minimize the storage of large amount of materials.
3. Existing facility operations will continue during construction. Some of the work will be supervised, by Northeast Florida State Hospital maintenance staff or security staff, due to security issues and or location of the work. Coordination issues will be addressed and worked out in the preconstruction phase.
4. Full Owner Occupancy: The Owner will occupy the building, site and adjacent buildings during construction. Cooperate with the Owner to minimize conflicts and facilitate Owner usage. Perform the work so as not to interfere with Owner's operations.
5. Use of Site: Maintain the site and repair damage caused by construction operations. Take necessary precautions to protect the existing buildings and occupants during the construction period. All material will be secure at all times to protect, contractor, staff and clients wondering the campus. Contractor **will not** interact will clients any any time. Any question from the residence on work being performed, shall be directed to Scott Sharp at Maintenance.

END OF SECTION

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