

Addendum 1



Date: 6/1/16

Project Name: Correct Domestic Water Deficiencies
VA 263-P-1126

Project #: 14104

Mechanical Drawing Items:

MD1. Sheet P9-1. Plumbing Symbols and Schedules

- A. Piping Riser Shutdown Phasing Matrix: This matrix is revised by Addendum 1 dated 6/1/16. The contractor is advised to review the entire matrix for changes to the original matrix. The following are notable changes but may not necessarily be a comprehensive listing of all changes:
1. Changes to the columns indicating the time when work can occur.
 2. The deletion of weekend and holiday work.
 3. Deleted reference to weekend work for riser M2.
 4. Footnote added: Only one riser may be shutdown at a time without prior approval.

Submitted By: SES

three inches = one foot
 one and one half inches = one foot
 one inch = one foot
 one inch = one foot
 three quarters inch = one foot
 one half inch = one foot
 one half inch = one foot
 three eighths inch = one foot
 one quarter inch = one foot
 one eighth inch = one foot
 one eighth inch = one foot

| PLUMBING FIXTURE SCHEDULE | | | | | |
|---------------------------|---------------------------|---|----------------------------|----------------------------|--------------|
| MARK | TYPE | DESCRIPTION | PIPING CONNECTIONS | | |
| | | | COLD WATER | HOT WATER | WASTE / VENT |
| MV-1 | ELECTRONIC MIXING VALVE | DESCRIPTION: ELECTRONIC MIXING VALVE - MASTER MIXING VALVE FOR TEMPERED WATER CONTROL. 1" ALL BRONZE/BRASS CONSTRUCTION, ROUGH BRASS FINISH. UNION INLETS WITH STRAINERS AND CHECK STOPS. DIAL THERMOMETER ON OUTLET. RATED FOR 80 GPM OUTPUT MAXIMUM AT 5 PSI DIFFERENTIAL AND 0 GPM OUTPUT MINIMUM. UNIT TO MIX 130 DEGREE F. HOT WATER SUPPLY AND 40 DEGREE F. COLD WATER SUPPLY FOR 124 DEGREE F. OUTLET. SHALL CONFORM TO THE REQUIREMENTS OF ASSE 1017 AND SHALL BE LEAD-FREE CONSTRUCTION. MIXING VALVE SHALL BE PRE-PIPED WITH SPOD RELAY OUTPUTS, LCD DISPLAY, AND RS485 SERIAL PORT CAPABLE OF INTEGRATING WITH EXISTING CM'S. PROVIDE 120V ELECTRICAL CONNECTION. PROVIDE FIELD ADJUSTMENT BY FACTORY AUTHORIZED REPRESENTATIVE. MANUFACTURER & MODEL NO.: ARMSTRONG DRVOR. | SEE DETAIL FOR CONNECTIONS | SEE DETAIL FOR CONNECTIONS | |
| MV-2 | THERMOSTATIC MIXING VALVE | DESCRIPTION: THERMOSTATIC MIXING VALVE - MASTER MIXING VALVE FOR TEMPERED WATER CONTROL. 1" ALL BRONZE/BRASS CONSTRUCTION, ROUGH BRASS FINISH. UNION INLETS WITH STRAINERS AND CHECK STOPS. DIAL THERMOMETER ON OUTLET. RATED FOR 8 GPM OUTPUT MAXIMUM AT 5 PSI DIFFERENTIAL AND 1 GPM OUTPUT MINIMUM. UNIT TO MIX 140 DEGREE F. HOT WATER SUPPLY AND 40 DEGREE F. COLD WATER SUPPLY FOR 110 DEGREE F. OUTLET. SHALL CONFORM TO THE REQUIREMENTS OF ASSE 1017 AND SHALL BE LEAD-FREE CONSTRUCTION. PROVIDE SURFACE MOUNTED 18 GAUGE PAINTED STEEL CABINET WITH 16 GAUGE PAINTED STEEL LOCKING DOOR TO ENCLOSE VALVE. PROVIDE FIELD ADJUSTMENT BY FACTORY AUTHORIZED REPRESENTATIVE. MANUFACTURER & MODEL NO.: ARMSTRONG 320. | SEE DETAIL FOR CONNECTIONS | SEE DETAIL FOR CONNECTIONS | |
| MV-3 | MIXING VALVE | DESCRIPTION: THERMOSTATIC MIXING VALVE - MASTER MIXING VALVE FOR TEMPERED WATER CONTROL. 1-1/4" ALL BRONZE/BRASS CONSTRUCTION, ROUGH BRASS FINISH. UNION INLETS WITH STRAINERS AND CHECK STOPS. DIAL THERMOMETER ON OUTLET. RATED FOR 15 GPM OUTPUT MAXIMUM AT 5 PSI DIFFERENTIAL AND 2 GPM OUTPUT MINIMUM. UNIT TO MIX 140 DEGREE F. HOT WATER SUPPLY AND 40 DEGREE F. COLD WATER SUPPLY FOR 110 DEGREE F. OUTLET. SHALL CONFORM TO THE REQUIREMENTS OF ASSE 1017 AND SHALL BE LEAD-FREE CONSTRUCTION. PROVIDE SURFACE MOUNTED 18 GAUGE PAINTED STEEL CABINET WITH 16 GAUGE PAINTED STEEL LOCKING DOOR TO ENCLOSE VALVE. PROVIDE FIELD ADJUSTMENT BY FACTORY AUTHORIZED REPRESENTATIVE. MANUFACTURER & MODEL NO.: ARMSTRONG 425. | SEE DETAIL FOR CONNECTIONS | SEE DETAIL FOR CONNECTIONS | |
| MV-4 | MIXING VALVE | DESCRIPTION: THERMOSTATIC MIXING VALVE, INTEGRAL CHECK VALVES, INTEGRATED BYPASS FOR THERMAL DISCHARGE APPLICATION. MANUFACTURER & MODEL NO.: CALEFFI 5213. | SEE DETAIL FOR CONNECTIONS | SEE DETAIL FOR CONNECTIONS | |
| SH-1 | SHOWER MIXING VALVE | MANUFACTURER & MODEL NO.: SYMONS 4-4500. DESCRIPTION: SAFETY MIX SHOWER MIXING VALVE, INTEGRAL CHECK-STOPS, 2.4 GPM. ADA COMPLIANT. OPTIONAL MANUFACTURER & MODEL NO.: CHICAGO 2500-VOCOKOP TEMPHSHD THERMOSTATIC PRESSURE BALANCING WITH ON-OFF CONTROL CARTRIDGE. REMOVE ALL VALVES, HAND HELD HOSE AND HEAD. PROVIDE NEW 69" METAL HOSE, MOUNTING HARDWARE AND NON-POSITIVE SHUTOFF HAND HELD SHOWER HEAD. VACUUM BREAKER TO REMAIN. REMOVE, SALVAGE, AND REPLACE TILE AND PROVIDE MOISTURE-RESISTANT CEMENT BACKER BOARD AND PREP WALL FOR TILE. | 1/2 | 1/2 | - |
| L-1 | LAV FAUCET | CHANGE ALL 8" CENTER-SET FAUCETS TO CHICAGO 1100-ONE35-317AB. CHANGE ALL 4" CENTER-SET FAUCETS TO CHICAGO 895-317ONE35ABCP. CHANGE ALL SINGLE HOLE FAUCETS TO CHICAGO 350-E35-317XKABCP. PROVIDE NEW LOOSE KEY STOPS, RIGID CHROME PLATE SUPPLIES WITH MV-4 MIXING VALVE BETWEEN STOPS AND FAUCET. FAUCETS TO HAVE 5-1/4" GOOSENECK SPOUTS WITH LAMINAR FLOW OUTLETS. | 1/2 | 1/2 | 1-1/2 |
| S-1 | SINK FAUCET | CHANGE ALL 8" CENTER-SET FAUCETS TO CHICAGO 1100-ONE35-317AB. CHANGE ALL 4" CENTER-SET FAUCETS TO CHICAGO 895-317ONE35ABCP. CHANGE ALL SINGLE HOLE FAUCETS TO CHICAGO 350-E35-317XKABCP. PROVIDE NEW LOOSE KEY STOPS, CHROME PLATE SUPPLIES WITH MV-4 MIXING VALVE BETWEEN STOPS AND FAUCET. FAUCETS TO HAVE 8" GOOSENECK SPOUTS WITH LAMINAR FLOW OUTLETS. | 1/2 | 1/2 | 1-1/2 |

NOTES:
 1. MANUFACTURERS LISTED BY NAME AND MODEL NUMBER INDICATE MINIMUM PERFORMANCE REQUIREMENTS. OTHER MANUFACTURERS HAVING SIMILAR PERFORMANCE AND MEETING MANUFACTURING STANDARDS OF THE LISTED PRODUCT ARE CONSIDERED EQUIVALENT FOR BIDDING PURPOSES. FINAL APPROVAL WILL BE BASED ON SHOP DRAWINGS SUBMITTALS.
 2. ALL LAV AND SINK FIXTURES TO REMAIN. FAUCETS AND SUPPLIES TO BE REPLACED.
 3. PROVIDE NEW ADA PIPE COVERS FOR ALL LAVS WITH EXPOSED WATER AND WASTE PIPE.
 4. REMOVE ALL FOOT-PEDAL CONTROLLED FAUCETS WITH MANUAL WRIST BLADE FAUCETS.
 5. JANITOR MOP SINKS AND CLINICAL SERVICE SINKS: NO CHANGE.
 6. COLD WATER-ONLY FIXTURES SUCH AS WATER CLOSETS, URINALS, AND DRINKING FOUNTAINS: NO CHANGE.

| MECHANICAL SYMBOLS | | | |
|--|--|---------|-------------------------------------|
| HEATING, VENTILATION, AND AIR CONDITIONING | | | |
| XXXXXX | LINED DUCTWORK | XX# D-1 | SUPPLY AIR TAG |
| 24/72 | RECTANGULAR DUCTWORK | 24"x72" | RETURN AIR TAG |
| 12" | ROUND DUCTWORK | FR.D. | FIRE DAMPER |
| 24/72 # | FLAT OVAL DUCTWORK | F.S.D. | COMBINATION FIRE/SMOKE DAMPER |
| | TURNING VANES | | MOTORIZED DAMPER |
| | DUCT RISER | | VOLUME DAMPER |
| (S) | TEMPERATURE SENSOR | (P) | PRESSURE OR TEMPERATURE POINTS |
| (T) | THERMOSTAT | (H) | HUMIDISTAT |
| PLUMBING AND PIPING | | | |
| UPS | STEAM (LOW AND MEDIUM PRESSURE) | | VENT THROUGH ROOF ON RISER |
| MS | STEAM (HIGH) AND HEAT PUMP SUPPLY | | CLEANOUT |
| MP | CONDENSATE (LOW AND MEDIUM PRESSURE) | | FLOOR DRAIN (ROUND) |
| MS | CONDENSATE (HIGH) AND HEAT PUMP SUPPLY | | FLOOR DRAIN (SQUARE) |
| HWS | HEATING WATER SUPPLY | | ROOF/OVERFLOW DRAIN |
| HWR | HEATING WATER RETURN | | WALL HYDRANT |
| CWS | CHILLED WATER SUPPLY | | HOSE BIBB |
| CWR | CHILLED WATER RETURN | | WALL HYDRANT |
| DWS | DUAL TEMP (HOT AND CHILLED WATER SUPPLY) | | HOSE BIBB |
| DWR | DUAL TEMP (HOT AND CHILLED WATER RETURN) | | GAS COCK |
| CD | COOL OR EQUIPMENT DRAIN LINE | | AUTOMATIC CONTROL VALVE, 3-WAY |
| CW | COLD WATER (CW) | | AUTOMATIC CONTROL VALVE, 2-WAY |
| | ARROW INDICATES FLOW DIRECTION | | PRESSURE REGULATING VALVE |
| | ARROW INDICATES DOWNWARD PIPE SLOPE | | PIPE IN SLEEVE |
| | CLOSE VALVE | | UNION |
| | PRESSURE/TEMPERATURE TEST PORT | | STRAINER WITH BLOW-OFF VALVE |
| | GATE VALVE | | BALANCING VALVE |
| | CHECK VALVE (ARROW INDICATES FLOW) | | ELBOW UP / ELBOW DN |
| | FLEXIBLE PIPING | | TEE UP / TEE DN |
| | PRESSURE RELIEF VALVE | | ISOLATION VALVE (BALL OR BUTTERFLY) |
| | PRESSURE GAUGE | | |
| | THERMOMETER | | |
| FIRE PROTECTION | | | |
| | FIRE LINE | | POST INDICATOR VALVE |
| | SPRINKLER BRANCH AND HEADS | | ALARM CHECK VALVE |
| | FIRE DEPARTMENT CONNECTION (SIAMOSE) | | FLOW SWITCH |
| | FIRE HYDRANT | | OS AND Y VALVE |
| MISCELLANEOUS | | | |
| | DENOTES NEW CONNECTION TO EXISTING | | |

| DIGITAL CONTROL POINT LIST | | | | | |
|-----------------------------------|--------------|--------------|---------------|---------------|-------------|
| POINT DESCRIPTION | ANALOG INPUT | BINARY INPUT | ANALOG OUTPUT | BINARY OUTPUT | ALARM POINT |
| MIXING VALVE (MV-1) | | | | | |
| • CW INLET | X | | | | X |
| • HW INLET | X | | | | |
| • HW OUTLET | X | | | | X |
| EXISTING WATER HEATERS (TYP-3) | | | | | |
| • CW INLET | X | | | | X |
| • HW OUTLET | X | | | | X |
| HW RECIRCULATING PUMPS (HWCP-1/2) | | X (STATUS) | | | X |
| • WATER TEMPERATURE | X | | | | X |
| • DIFFERENTIAL PRESSURE | X | | | | X |
| HW RECIRCULATION MAINS (TYP) | | | | | |
| • CHLORINE CONCENTRATION | | X | | X | X |
| • SILVER CONCENTRATION | | X | | X | X |
| • COPPER CONCENTRATION | | X | | X | X |
| • PH LEVEL | | X | | X | X |
| • TEMPERATURE | X | | | X | X |
| HW MAINS (TYP) | | | | | |
| • TEMPERATURE | X | | | X | X |

NOTES:
 1. MANUFACTURERS LISTED BY NAME AND MODEL NUMBER INDICATE MINIMUM PERFORMANCE REQUIREMENTS. OTHER MANUFACTURERS HAVING SIMILAR PERFORMANCE AND MEETING MANUFACTURING STANDARDS OF THE LISTED PRODUCT ARE CONSIDERED EQUIVALENT FOR BIDDING PURPOSES. FINAL APPROVAL WILL BE BASED ON SHOP DRAWINGS SUBMITTALS.
 2. SENSORS AND ANALYZER FOR CHLORINE (CL) AND PH TO BE ROSEMOUNT ANALYTICAL 1056 OR EQUAL. OPTION: TRANSMITTER AND PROBES BY JOHNSON CONTROLS INC. PROVIDE TWO (2) SETS OF REPLACEMENT PROBES FOR EACH LOCATION. AN ANALYZER SHALL BE LOCATED AT EACH LOCATION INDICATED ON THE PLANS TO HAVE MONITORING. PROVIDE 115 VOLT POWER TO ALL SUCH LOCATIONS.
 3. CONCENTRATIONS TO MAINTAIN:
 A. CL: 2 MG/L FREE CHLORINE.
 B. PH: 7.5 (PH VALUES ABOVE 8 REDUCE THE EFFICACY OF THE COPPER-SILVER IONIZATION PROCESS).
 4. MAKE PROVISION FOR FUTURE MONITORING OF COPPER AND SILVER.

| PUMP SCHEDULE | | | | | | | | | | | | | | |
|---------------|------------|-----------------|--------------------|---------------------|---------------|------|--------------------------------|--------------------------|-------|-------------|----------------|--------------|-------------|---------|
| MARK | FLOW [GPM] | TOTAL HEAD [FT] | SHUT-OFF HEAD [FT] | MIN. EFFICIENCY [%] | TYPE OF FLUID | RPM | SUCTION / DISCHARGE SIZE [IN.] | MAX. IMPELLER DIA. [IN.] | HP | VOLTS/PHASE | CONTROL DEVICE | MANUFACTURER | MODEL | REMARKS |
| HWCP-1 | 50 | 40 | 47 | 51 | 130F WATER | 3034 | 2/2 | - | 1-1/2 | 208/3 | - | GRUNDFOS | TPE40-160/2 | (1)(X) |
| HWCP-2 | 50 | 40 | 47 | 51 | 130F WATER | 3034 | 2/2 | - | 1-1/2 | 208/3 | - | GRUNDFOS | TPE40-160/2 | (1)(X) |

NOTES:
 1. MANUFACTURERS LISTED BY NAME AND MODEL NUMBER INDICATE MINIMUM PERFORMANCE REQUIREMENTS. OTHER MANUFACTURERS HAVING SIMILAR PERFORMANCE AND MEETING MANUFACTURING STANDARDS OF THE LISTED PRODUCT ARE CONSIDERED EQUIVALENT FOR BIDDING PURPOSES. FINAL APPROVAL WILL BE BASED ON SHOP DRAWINGS SUBMITTALS.
 2. INTEGRAL DIFFERENTIAL PRESSURE SENSOR.
 3. BRONZE BODY, STAINLESS STEEL IMPELLER.

| PIPING RISER SHUTDOWN PHASING MATRIX | | | | | | |
|--------------------------------------|---|---|---|--|------|---|
| RISER ID | WORK CAN OCCUR BETWEEN HOURS OF 0730 AND 1930 | WORK CAN OCCUR BETWEEN HOURS OF 1930 AND 0530 | WORK CAN OCCUR ANYTIME ON WEEKENDS AND HOLIDAYS | AFFECTED DEPARTMENTS | | COMMENTS |
| | | | | DEPARTMENT | ROOM | |
| A2 | | X | | WOMEN'S SHOWER, 2ND FLR NEW RRS, 3RD FLR, 4N FEMALE ROOM | | ANYTIME, PAY ATTENTION TO NO. OF FEMALES ON UNIT |
| B2 | X | | | GRD FLOOR MEN'S SHWR | | |
| C2 | | X | | CANTEEN, VENDING MACHINES, CLC (N316, N317) | | AFTER 1600 FOR CANTEEN UNTIL 2130 FOR CLC |
| D2 | X | | | N13, N14A | | |
| E2 | | X | | GRD FLR RR N113, EYE TECHS N210, N211, PROC NE205, NE205, GROUP SHWR CLC | | |
| F2 | | X | | N105, N104 MEN'S & WOMEN'S RR | | NS05 COMING OFF AFTER HRS |
| A1 | X | | | SE155 SE BREAKRM 1ST FLOOR | | |
| B1 | X | | | SE155, SE153A ANGE LYONS, SE205 (LAB) | | CRITICAL NOISE LEVEL AREA |
| C1 | | X | | LAB AND EBOLA RM | | AFTER HRS DUE TO LAB |
| D1 | | X | | MARY PAT'S RR & OFF/OFF | | BETWEEN 1630 AND 2130, ADDING A RETURN |
| E1A | X | | | SE02 (LAUNDRY SINK/TLT) | | CUTTING OFF CAP |
| E1B | | X | | SE152A, SE151A, (REFERRAL/NH) SE206, SE207 (LAB) | | |
| F1 | X | | | | | NO IMPACT |
| G1 | | X | | S03 SPS, S204 LAB DRAW RM | | EYE WASH STATION |
| H1 | | X | | SW201A, SW201, ULTRASOUND RM S205, LAB BREAKRM, S410 RR | | BETWEEN 1630 AND 2130 |
| G2 | | X | | NW117 (PHARMACY), NW115, NW116 (EXAM), NW414, NW413 | | BETWEEN 1630 AND 2130 |
| H2 | X | | | NW411, NW412 | | PAY ATTENTION TO PATIENT LOAD |
| I2 | | X | | NW113 (CHEM) | | ADVANCE NOTICE FOR CHEM COORDINATION IN NEW CHEM ROOM |
| J2 | | X | | NW108, NW107 (EXAM), NW407, NW408 (PT RMS) | | CRITICAL NOISE LEVEL AREA |
| K2 | | X | | NW207A, NW206, NW205B (RESP) | | |
| L2 | | X | | NW106, NW105 (EXAM), NW205 (RESP) | | CRITICAL NOISE LEVEL AREA |
| M2 | | X | | NW104-NW101 (EXAMS), NW402, NW404 (PT RMS), NW308 HALLWAY SINK | | |
| N2 | | X | | NW311A, NW309A - CLC PT RMS, NW501 CAP ONLY TUB | | BETWEEN 1630 AND 2130, CAPPING, CRITICAL NOISE LEVEL AREA |
| I1 | | X | | S203B, S306, SE302A, SE308, SE309, SE310, S507, S506 | | ADVANCE NOTICE FOR PATIENT LOAD |
| J1 | X | | | S315 SOILED UTILITY, S314 AND SINK IN HALLWAY | | SHUTTING VALVES |
| K1 | | X | | SW118, SW117, (RR TORN DOWN), SW101 | | |
| L1 | | X | | SW115 BARR RR, SW102 (EXAM) SW211A, SW211B (RAD), SW309A, SW311A (CLC) | | ADVANCE NOTICE FOR PATIENT LOAD |
| M1 | | X | | SW113, SW114 (EXAM) | | |
| N1 | | X | | SW112 (DIRTY HOLD), SW306, SW307 (CLC) | | ADVANCE NOTICE FOR PATIENT LOAD, POSSIBLE TO MOVE PATIENTS OUT DURING DAY, REPLACING ALL VALVES |
| O1 | | X | | SW111, SW110 (EXAM) | | |
| P1 | | X | | SW106, SW107, SW108, SW109 (EXAM), SW207 (RAD) | | |
| O2 | | X | | NE101, NE102, NE103, (DENTAL) NS08 | | |
| P2 | | X | | NO7A (IT), NE301-NE308 (HOSPICE WING) | | ADVANCE NOTICE FOR PATIENT LOAD, ICE MACHINE, CAPPING OFF, VALVES |
| Q2 | X | | | DEAD RISER | | |
| R2 | X | | | DEAD RISER | | |
| S2 | X | | | DEAD RISER | | |
| T2 | | X | | C109A EYE WASH | | |
| U2 | | X | | C220, C221 (PT BREAKRM AND BACK RR) | | |
| G1 | | X | | SW206 (RESP), SW104, SW105, SW106 (EXAM), SW304, SW305 (CLC) | | ADVANCE NOTICE FOR PATIENT LOAD |
| R1 | X | | | SW404, SW405 | | CAP IN BASEMENT |
| S1 | X | | | SW303A, SW302A (PT RMS) | | ADVANCE NOTICE FOR PATIENT LOAD |
| T1 | X | | | S303A, S304A, S305A, S402 | | ADVANCE NOTICE FOR PATIENT LOAD |
| U1 | X | | | DEAD RISER | | |
| V1 | X | | | S1A (HSPK) | | |
| W1A | X | | | C401, C516 RR, C501 RR (EMPLOYEE RRS) | | |
| X1 | X | | | C304, C302A, C403 | | |
| Y1 | | X | | N214, N215, (EXISTING RR) | | NEW 2ND FLOOR RR |
| Z1 | X | | | N05A (RR) | | |
| V2 | | X | | C112, C113 | | COORDINATE WITH RISERS W2, A3, B3, & D3 |
| W2 | | X | | C116 (KITCH), C323, C322 | | BOXED LUNCHES, COORDINATE WITH RISERS V2, A3, B3, & E3 |
| X2 | | X | | C105, C106, C312, C320, C321 | | |
| Y2 | X | | | C211, C209, (PT) C311 | | |
| A3 | | X | | C101A, C115, C308, C307 | | COORDINATE WITH RISERS W2, V2, B3, & E3 |
| B3 | | X | | C101 | | COORDINATE WITH RISERS W2, V2, A3, & E3 |
| D3 | X | | | C505A, C404, C3C0R | | |
| E3 | | X | | C107, RR, C101 DISH | | COORDINATE WITH RISERS W2, V2, A3, & B3 |

NOTE:
 1. ONLY ONE RISER MAY BE SHUTDOWN AT A TIME WITHOUT PRIOR APPROVAL.

| ADDENDUM | REVISIONS | DATE |
|------------|-----------|----------|
| ADDENDUM 1 | | 05/01/16 |

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2016

Professional Engineer Seal: ERIC S. JOHNSON, No. 113327, State of Nebraska, Expires 05/08/16

Drawing Title: PLUMBING SYMBOLS + SCHEDULES

Project Title: DOMESTIC HOT WATER SYSTEM UPGRADE

Project Number: 636-14-113

Building Number: 1

Drawing Number: P9-1

Date: 05-09-2016

Checked: CDH

Drawn: JSH

Dwg. 33 of 35

Office of Construction and Facilities Management

Department of Veterans Affairs