

AMENDMENT OF SOLICITATION/MODIFICATION OF CONTRACT			1. CONTRACT ID CODE	PAGE OF PAGES 1 16	
2. MODIFICATION NO.: 0003		3. EFFECTIVE DATE AUG 20, 2003	4. REQUISITION/PURCHASE REQ. NO. W81W3G-2035-7181		PROJECT NO. (If applicable)
6. ISSUED BY Department of the Army Baltimore District, Corps of Engineers Contracting Division P.O. Box 1715 Baltimore MD 21203-1715		CODE CA31	7. ADMINISTERED BY: Contracting Division, Contracts Branch CENAB-CT-C 10 S. Howard ST. Room 7000 Baltimore, MD 21203-1715		CODE E1P0100
8. NAME AND ADDRESS OF CONTRACTOR (No., street, county, State and ZIP Code)			(x)	9A. AMENDMENT OF SOLICITATION NO. DACA31-03-R-0038	
			X	9B. DATED (SEE ITEM 11) AUG 04, 2003	
				10A. MODIFICATION OF CONTRACT/ ORDER NO.	
				10B. DATED (SEE ITEM 13)	
CODE		FACILITY CODE			

11. THIS ITEM ONLY APPLIES TO AMENDMENTS OF SOLICITATIONS

The above numbered solicitation is amended as set forth in Item 14. The hour and date specified for receipt of Offers **is not extended**

DATE OF RECEIPT OF PROPOSALS 4:00 PM, LOCAL TIME, SEP 03, 2003

Offers must acknowledge receipt of this amendment prior to the hour and date specified in the solicitation or as amended, by one of the following methods:

(a) By completing Items 8 and 15, and returning 1 copies of the amendment; (b) By acknowledging receipt of this amendment on each copy of the offer submitted; or (c) By separate letter or telegram which includes a reference to the solicitation and amendment numbers. FAILURE OF YOUR ACKNOWLEDGMENT TO BE RECEIVED AT THE PLACE DESIGNATED FOR THE RECEIPT OF OFFERS PRIOR TO THE HOUR AND DATE SPECIFIED MAY RESULT IN REJECTION OF YOUR OFFER. If by virtue of this amendment you desire to change an offer already submitted, such change may be made by telegram or letter, provided each telegram or letter makes reference to the solicitation and this amendment, and is received prior to the opening hour and date specified.

12. ACCOUNTING AND APPROPRIATION DATA (If required)

**13. THIS ITEM APPLIES ONLY TO MODIFICATIONS OF CONTRACTS/ORDERS,
IT MODIFIES THE CONTRACT/ORDER NO. AS DESCRIBED IN ITEM 14.**

A. THIS CHANGE ORDER IS ISSUED PURSUANT TO: (Specify authority) THE CHANGES SET FORTH IN ITEM 14 ARE MADE IN THE CONTRACT ORDER No. ITEM 10A
B. THE ABOVE NUMBERED CONTRACT/ORDER IS MODIFIED TO REFLECT THE ADMINISTRATIVE CHANGES (such as changes in paying office, appropriation date, etc.) SET FORTH IN ITEM 14, PURSUANT TO THE AUTHORITY OF FAR43.103(b)
C. THIS SUPPLEMENTAL AGREEMENT IS ENTERED INTO PURSUANT TO AUTHORITY OF: changes clause FAR 52.243.1
D. OTHER (Specify type of modification and authority)

E. IMPORTANT: Contractor is not, is required to sign this document and return copies to the issuing office.

14. DESCRIPTION OF AMENDMENT/MODIFICATION (Organized by UCF section headings, including solicitation/contract subject matter where feasible.)

**UNACCOMPANIED ENLISTED PERSONNEL HOUSING (UEPH 2)
FORT DETRICK, MARYLAND**

SEE THE FOLLOWING PAGES

Except as provided herein, all terms and conditions of the document referenced in Item 9A or 10A, as heretofore changed, remains unchanged and in full force and effect

15A. NAME AND TITLE OF SIGNER (Type or print)		16A. NAME AND TITLE OF CONTRACTING OFFICER (Type or print)	
15B. CONTRACTOR/OFFEROR	15C. DATE SIGNED	16B. UNITED STATES OF AMERICA	16C. DATE SIGNED
_____ (signature of person authorized to sign)		BY _____ (Signature of Contracting Officer)	

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SPECIFICATIONS:

1) Page 09310-6, Paragraph 3.3: Revise to read, "Wall tile shall be installed in accordance with the TCA Hdbk, Methods W243-03, W244-03, and 201-03."

2) Page 09310-7, Paragraph 3.4: Revise to read, "Floor tile, shall be installed in accordance with the TCA Hdbk, Methods F141-03, F111-03, and F114-03. Shower receptor shall be installed in accordance with TCA Hdbk, Method B414-03."

3) Page 09310-7, Paragraph 3.3.4: Immediately after this paragraph insert the following::

"3.3.5 Corner Guards

Corner guards shall be 2 mm thick and shall cover 50.8 mm each side of corner at right angles. Corner guards shall be 16 gauge stainless steel."

4) Page 09510-4, Paragraph 2.1.2: Immediately after this paragraph insert the following:

"2.1.3: Units for Exposed Grid System C

Type: III, Form 2, Pattern CE wet-formed mineral fiber. Acoustical units shall be a minimum recycled content of 18%.

Minimum NRC: .50

Nominal size: 600 X 600 mm

Edge detail: square

Finish: Factory –applied standard finish

Minimum LR coefficient: .83

Minimum CAC: 35"

5) Page 12490-3, Paragraph 2.1.2: Delete in its entirety, including all subparagraphs.

6) Page 15070-3, Paragraph 1.4 – Submittals: SD-03 – Product Data, delete both G AR.

7) Page 15080-3, Paragraph 1.4 – Submittals: SD-04 – Samples, delete G AR.

8) Page 15181A-4, Paragraph 1.2 – Submittals:

- a) SD-02 Shop Drawings: -- Delete "G AR"
- b) SD-03 Product Data: -- Delete "G AR"
- c) SD-03 Water Treatment Systems: -- Delete "G AR"
- d) SD-03 Demonstrations: -- Delete "G AR"
- e) SD-06 Condenser Water Quality Tests: -- Delete "G AR"
- f) SD-07 Certificates – Service Organization -- Delete "G AR"

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9) Page 15182A-3, Paragraph 1.2: - Submittals

- a) SD-02 Shop Drawings: -- Delete "G AR"
- b) SD-03 Product Data: -- Delete all "G AR"
- c) SD-06 Test Reports: -- Delete "G AR"
- d) SD-07 Certificates:-- Delete "G AR"
- e) SD-10 Operation and maintenance Data: -- Maintenance manuals -- Delete "G ED" and replace with "G AR"

10) Page 15569-5, Paragraph 1.2 – Submittals – SD-03 – Product Data:

Water Treatment Plan and Boiler Water Treatment -- Insert "G ED" after both

11) Page 15620-2, Paragraph 1.2 – Submittals – SD-02 – Shop Drawings

Installation -- Delete "G AR" and replace with "G ED"

12) Page 15700A-3, Paragraph 1.2 – Submittals:

- a) SD-03 Product Data
 - Spare Parts Data - Delete "G AR"
 - Posted Instructions Delete "G AR"
 - Verification of Dimensions - Delete "G AR"
 - System Performance Tests - Delete "G AR"
 - Demonstrations - Delete "G AR"
- b) SD-06 Test Reports
 - Delete all "G AR" and replace all with "G ED"
- c) SD-07 Certificates
 - Delete all "G AR"

13) Page 15700-8,

- a) Paragraph 2.4 – Unitary Equipment: Delete title of paragraph and replace with ""2.4 UNITARY EQUIPMENT, ROOM HEAT PUMP (PTHP-1) ""
- b) Paragraph 2.4.1 Packaged terminal unit: Delete in it's entirety and replace with the following paragraph:

"2.4.1 Package Terminal Unit

Unit shall be a through-the-wall, heavy duty commercial grade, factory assembled and precharged heat pump unit. Unit shall be in accordance with ARI 310/380 and UL 1995. Units shall be removable from inside the building for servicing without removing the outside cabinet. Unit shall be a noise rating in accordance with ARI 350 and not exceed 4 bels while the entire unit is operating at any fan or compressor speed. Heat pump units shall contain a reversing valve to change unit to heating cycle. An outdoor coil temperature sensor shall be provided to guard against coil freeze-up by either switching to supplemental heat only or by cycling the compressor to defrost the coil."

- c) Paragraph 2.4.3 Air-to-Refrigerant Coils: Delete the last sentence. Replace with "An internal condensate removal system shall be provided to evaporate condensate during both cooling and reverse-cycle heating mode."

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14) Page 15951-3:

- a) Paragraph 1.2.7: Delete part of last sentence “or in an adjacent space which has direct access to the equipment room”
- b) Paragraph 1.2.8: Delete “hav” from last sentence and replace with “have”

15) Page 15951-4, Paragraph 1.3 – Submittals:

- a) Paragraph SD-03 Product Data
 - Service organizations -- Delete “ G AR”
 - Equipment Compliance Booklet -- Delete “ G AR”
 - Commissioning Procedures -- Delete “ G AR”
 - Performance Verification Test Procedures -- Change “ G AR” to “G ED”
 - Training -- Delete “ G ED” to “FIO”
- b) Paragraph SD-06 Test Reports
 - Commissioning Report -- Change “ G AR” to “G ED”

16) Page 15951-42:

- a) Paragraph 3.3.2: Add “and Convector” to title after “Radiation”
- b) Paragraph 3.3.3: Add following sentence to end of paragraph “ Aquastat and two-way valves shall be provided for all Unit Heaters (UH) and Cabinet Unit Heaters (CUH) connected to dual temperature system.
- c) Paragraph 3.3.4: Add “(AC-2)” to end of paragraph title

17) Page 15951-43: Paragraph Nos. 3.3.5 and 3.3.6: Delete in their entirety and replace with the following:

“3.3.5 Single Building Hydronic Heating with Hot Water Boiler

All Modes – The DDC controller shall accept a signal from a sunshielded outside air temperature sensing element and transmitter located as shown. The DDC controller shall start and stop distribution pump, boiler pump and boiler. The DDC controller shall reset the hydronic heating supply temperature setpoint in a linear schedule based on the outside air temperature as shown. The DDC system shall accept a signal from a temperature sensing element and transmitter located in the hydronic heating supply line and in the boiler return line and the DDC system output shall modulate the hydronic heating system control valve to maintain the reset schedule setpoint in the hydronic heating supply line. The DDC controller shall override 3-way valve modulation when necessary to maintain the minimum 2 boiler return water temperature indicated.

3.3.6 Bypass Multizone with Return Fan (AC-1)

3.3.6.1 Occupied, Unoccupied, and Ventilation Delay Modes of Operation

Ventilation-delay-mode timing shall start prior to the occupied-mode timing. The DDC system shall prevent the outside-air damper from opening. At the time shown, the DDC system shall place the system in the occupied mode. At the expiration of the ventilation-delay-mode timing period, the DDC system shall allow the outside-air damper to open. At the time shown, the DDC system shall place the control system in the unoccupied mode of operation.

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3.3.6.2 Outside Air, Return Air, and Relief air Dampers

- a) Occupied Mode - The outside-air, return-air, and relief-air dampers shall be under control.
- b) Unoccupied Mode - The dampers shall return to their normal positions as shown.
- c) Ventilation Delay Mode - The dampers shall return to their normal positions as shown.

3.3.6.3 Supply Fan and Return Fan Control

- a) Occupied and Ventilation Delay Modes - Supply fan and return fan shall start, and shall operate continuously.
- b) Unoccupied Mode - The supply fan and the return fan shall cycle according to the night setback schedule. The fans shall start and stop at the setpoints as shown.

3.3.6.4 Filter

A differential pressure switch across the filter shall initiate a filter alarm when the pressure drop across the filter reaches the setpoint as shown.

3.3.6.5 Freeze Protection

All Modes - A freezestat, located as shown, shall stop the supply and return fans, cause the outside-air, return-air, and relief-air dampers to return to their normal position, and shall initiate a low temperature alarm if the temperature drops below the freezestat's setpoint. Return to the normal mode of operation shall require manual reset at the freezestat. The DDC panel shall monitor the freezestat through auxiliary contacts and shall indicate an alarm condition when the freezestat trips.

3.3.6.6 Cold Deck and Hot Deck Coil

- a) Occupied and Ventilation-Delay Modes - The control valve for the hot water coil and the stages of cooling shall be modulated by the DDC system from the signal of a temperature-sensing element and transmitter located in the coil discharge air to maintain the setpoints as shown.
- b) Unoccupied Mode - The DDC system shall shut off cooling control valve.

3.3.6.7 Zone Control

All Modes – A space temperature sensor for each zone shall signal the DDC system to gradually operate the zone-mixing dampers to heat and cool its respective zone by mixing cold deck air and bypass deck air or hot deck air and by-pass air to maintain the space temperature setpoint as shown. On a rise in space temperature above set point (i.e., call for cooling) the bypass damper and the cold deck damper shall modulate to maintain space temperature cooling. On a drop in space temperature below setpoint (i.e., call for heating), the bypass damper and hot deck damper shall modulate to maintain space temperature setpoint. When space temperature is satisfied, bypass damper shall be full open and hot deck and cold deck dampers closed.

3.3.6.8 Emergency Fan Shutdown

All Modes - Smoke detectors in the supply-air and return-air ductwork shall stop the supply fan and the return fan and initiate a smoke alarm if smoke is detected at either location. Restarting the supply fan and the return fan shall require manual reset at the smoke detectors.”

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18) Page 15951-44:

- a) Paragraph 3.3.7: Add “(AHU-1, AHU-2, UV-1 and UV-2)” to end of paragraph title
- b) Paragraph 3.3.7.1: Add “(AHU-1 and AHU-2 only)” after “Ventilation Delay mode” in first sentence.
- c) Paragraph 3.3.7.2a: Insert “(AHU-1 and AHU-2 only) and” after “outside air”, delete “,” after “return air” in first sentence
- d) Paragraph 3.3.7.2c: Insert “(AHU-1 and AHU-2 only)” after Ventilation Delay Mode, and Delete “except when under economizer control”

19) Page 15951-45:

- a) Paragraph 3.3.7.5: Insert “(AHU-1 and AHU-2 only) into second sentence after “outside air” and deleted “, and relief air”
- b) Paragraph 3.3.7.7: Delete “minimum outside air” and replace with “occupied” in the first sentence
- c) Paragraph 3.3.7.8: Immediately following this paragraph, insert the following paragraphs.

“3.3.8 Fan Coil Unit (FC-1, FC-2 and FC-3)

- a) A manual fan switch, located adjacent to the thermostat, shall allow occupant operation of the fan. Fan switch positions provided shall be: Off, Low, Medium, and High. (For FC-1 and FC-2 only.)
- b) With the fan in one of the three "energized" positions a wall mounted thermostat, located as shown, shall fully open the three-way, two-position valve to the coil to maintain the setpoint as shown. When the thermostat setting is satisfied, the three way two position valve shall close. The cooling mode will control the cooling coil while the heating mode will control the heating coil. When the cooling coil is energized the heating coil will be bypassed and vice versa.
- c) With the fan "de-energized" the three-way, two position valves shall close its respective coil.
- d) While the fan is "de-energized" if the space temperature drops below the freeze protection setpoint as shown, the unit fan will be automatically compelled to "energize" in the high speed position without occupant intervention to maintain the freeze protection setpoint. The fan shall automatically "de-energize" if the space temperature rises above the freeze protection setpoint.

3.3.9 Dual-Temperature Fan Coil Unit (FC-4 and FC-5)

All modes – A wall mounted thermostat, located as shown, shall cycle the fan to maintain the setpoint as shown. When the fan is on, a 3-way valve shall open to the coil. When the fan is off, the 3-way valve shall bypass the coil. An aquastat shall switch the wall-mounted thermostat action from heating mode to cooling mode whenever the hydronic dual-temperature medium is below the setpoint as shown.

3.3.10 100% Outside Air Unit with Hydronic Heating/Cooling Coils and Electric Heating Coil No Return Fan (AHU-3)

3.3.10.1 Occupied and Unoccupied Modes of Operation

A manual selector at the DDC controller shall allow the system to be paced in the occupied or unoccupied mode.

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3.3.10.2 Outside Air Damper

- a) Occupied Mode - The outside air damper shall be open.
- b) Unoccupied Mode - The outside air damper shall close.

3.3.10.3 Supply Fan Control

- a) Occupied Mode - Supply fan shall start, and shall operate continuously.
- b) Unoccupied Mode - The supply fan shall be off.

3.3.10.4 Filter

A differential pressure switch across the filter shall initiate a filter alarm when the pressure drop across the filter reaches the setpoint.

3.3.10.5 Freeze Protection

All Modes - A freezestat, located as shown, shall stop the supply fan, cause the outside air to close, and shall initiate a low temperature alarm if the temperature drops below the freezestat's setpoint. Return to the normal mode of operation shall require manual reset at the freezestat. The DDC controller shall monitor the freezestat through auxiliary contacts and shall indicate an alarm condition when the freezestat trips.

3.3.10.6 Hydronic Cooling Coil

- a) Occupied Mode - The control valve shall be modulated by the DDC controller from the signal of a coil discharge air temperature sensor to maintain cooling coil discharge air setpoint temperature 55 degrees F (12.8 degrees C).
- b) Unoccupied Mode - The DDC controller shall close the cooling coil control valve.

3.3.10.7 Hydronic Heating Coil Control

The DDC controller shall maintain the AHU discharge temperature setpoint 72 degrees F (22 degrees C.) by modulating the heating valves as necessary. The hot water circulating pump at the heating coil shall be energized when the outside air temperature is below setpoint 40 degrees F (4.4. deg C).

3.3.10.8 Electric Re-heat Coil Control

Based on input from a duct temperature sensor and transmitter located as shown, the DDC controller shall maintain re-heat coil discharge temperature setpoint 70 degrees F(21 deg C) by modulating the stages of electric heat.

3.3.10.9 Emergency Fan Shutdown

All Modes - Smoke detectors in the supply air shall stop the supply fan and initiate a smoke alarm if smoke is detected at either location. Restarting the supply fan shall require manual reset at the smoke detector.

3.3.11 Exhaust Fans

Exhaust fans and interlocked devices, where applicable, shall operate as shown.

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3.3.12 PTHP and AC-3

The PTHP shall operate as indicated in SECTION 15700, UNITARY HEATING AND COOLING EQUIPMENT

3.3.13 100% Outside Air Unit with Hydronic Dual Temperature Coil No Return Fan (AHU-4 and AHU-5)

3.3.13.1 Occupied and Unoccupied Modes of Operation

A manual selector at the DDC controller shall allow the system to be paced in the occupied or unoccupied mode.

3.3.13.2 Outside Air Damper

- a) Occupied Mode - The outside air damper shall be open.
- b) Unoccupied Mode - The outside air damper shall close.

3.3.13.3 Supply Fan Control

- a) Occupied Mode - Supply fan shall start, and shall operate continuously.
- b) Unoccupied Mode - The supply fan shall be off.

3.3.13.4 Filter

A differential pressure switch across the filter shall initiate a filter alarm when the pressure drop across the filter reaches the setpoint.

3.3.13.5 Freeze Protection

All Modes - A freezestat, located as shown, shall stop the supply fan, cause the outside air to close, and shall initiate a low temperature alarm if the temperature drops below the freezestat's setpoint. Return to the normal mode of operation shall require manual reset at the freezestat. The DDC controller shall monitor the freezestat through auxiliary contacts and shall indicate an alarm condition when the freezestat trips.

3.3.13.6 Hydronic Coil

- a) Occupied Mode - The control valve shall be modulated by the DDC controller from the signal of a coil discharge air temperature sensor to maintain coil discharge air setpoint temperature 55 degrees F (12.8 degrees C). The aquastat shall measure system water temperature and send a signal to the DDC controller indicated whether the valve should operate in a heating or cooling mode.
- b) Unoccupied Mode - The DDC controller shall open the coil control valve.

3.3.13.7 Electric Re-heat Coil Control

Based on input from a duct temperature sensor and transmitter located as shown, the DDC controller shall maintain re-heat coil discharge temperature setpoint 72 degrees F (22 deg C) by modulating the stages of electric reheat.

3.3.13.8 Emergency Fan Shutdown

All Modes - Smoke detectors in the supply air shall stop the supply fan and initiate a smoke alarm if smoke is detected at either location. Restarting the supply fan shall require manual reset at the smoke detector.”

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20) Page 15951-47, Paragraph 3.4.6 Fan coil unit: Add “(FC-4 and FC-5)” to end of paragraph title

21) Page 15951-48, Paragraph 3.4.7: Delete the paragraph in its entirety and replace with the following:

“3.4.7 Single Building Hydronic Heating with Hot Water Boiler

Steps for installation shall be as follows:

a. Step 1 - System Inspection: The HVAC system shall be observed in its shutdown condition. It shall be verified that power is available where required.

b. Step 2 - Calibration Accuracy Check with HVAC System Shutdown: Readings shall be taken with a digital thermometer at each temperature sensing element location. Each temperature shall be read at the DDC controller, and the thermometer and DDC system readings logged. The calibration accuracy of the sensing element-to-DDC readout for outside air temperature and system supply temperature and the boiler return water temperature shall be checked.

c. Step 3 - Actuator Range Adjustments: A signal shall be applied to the actuator through an operator entered value to the DDC system. The proper operation of the actuators and positioners for all valves shall be verified visually. The signal shall be varied from live zero to full range, and it shall be verified that the actuators travel from zero stroke to full stroke within the signal range. It shall be verified that all sequenced actuators move from zero stroke to full stroke in the proper direction, and move the connected device in the proper direction from one extreme position to the other.

d. Step 4 - Control-System Commissioning:

(1) The two-point calibration sensing element-to-DDC controller readout accuracy check for the outside air temperature shall be performed. Any necessary software adjustments to setpoints or parameters shall be made to achieve the outside air temperature schedule.

(2) It shall be verified that the DDC controller start and stop the pumps and boiler.

(3) The two-point calibration accuracy check of the sensing element-to-DDC controller readout for the hydronic system supply temperature and boiler return water temperature shall be performed. The supply temperature setpoint shall be set for the temperature schedule as shown. Signals of 8ma and 16 ma shall be sent to the DDC controller system from the outside air temperature sensor, to verify that the supply temperature setpoint changes to the appropriate values. Verify that 3-way valve modulation is overridden when the boiler return water temperature drops below the minimum setpoint.”

22) Page 15951-48, Paragraph 3.4.8 - Central Plant High Temperature Hot Water Hydronic Heating: Delete the Paragraph in its entirety

23) Page 15951-50, Paragraph 3.4.9 - Central Plant Dual Temperature Hydronic: Delete the paragraph in its entirety

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24) Page 15951-51:

- a) Paragraph 3.4.10 – Central Plant High Temperature Hot Water Dual Temperature Hydronic:
Delete the paragraph in its entirety
- b) Paragraph 3.4.11a (Bypass Multizone with Return Fan a. Step 1): Delete paragraph in its entirety and replace with the following:
“a. Step 1 – System Inspection: The HVAC system shall be observed in its shutdown condition. The system shall be checked to see that power is available where required, the outside air damper, relief air damper and heating coil valve are closed, condensing unit is off and the return air damper is open.”
- c) Paragraph 3.4.11b (Bypass Multizone with Return Fan b. Step 2): Add “and hot deck” after “cold-deck” in the last sentence
- d) Paragraph 3.4.11d(1) (Bypass Multizone with Return Fan d. Step 4):
 - 1) Insert “valve” after “heating” in the 5th sentence.
 - 2) Replace “coil valves” with “stages” at beginning of 6th sentence.
 - 3) Insert “and heating coil” after “cooling coil” in middle of 7th sentence
- e) Paragraph 3.4.11d(3) (Bypass Multizone with Return Fan d. Step 4): Delete paragraph in its entirety
- f) Paragraph 3.4.11d(4) (Bypass Multizone with Return Fan d. Step 4)
 - 1) Insert “and hot-deck” after “cold-deck” in 2nd sentence
 - 2) Insert “s” after “temperature” in 2nd sentence
 - 3) Insert “and hot-deck” after cold-deck” in 3rd sentence

25) Page 15951-52, Paragraph 3.4.11d(9) - (Bypass Multizone with Return Fan d. Step 4):

- a) Insert “s” after “damper” in 1st sentence
- b) Delete “and the heating coil valve” from the first sentence

26) Page 15951-53, Paragraph 3.4.12 - Variable Air Volume Control System – Without Return Fan:
Delete the paragraph in its entirety

27) Page 15951-55:

- a) Paragraph 3.4.13a Single Zone with Hydronic Heating Direct Expansion Cooling - (a. Step 1 - System Inspection)
 - 1) Insert “(AHU-1 and AHU-2 only) is” after “outside air damper” in 3rd sentence.
 - 2) Delete “and relief air damper” from the end of the 3rd sentence and the beginning of the 4th sentence.
- b) Paragraph 3.4.13d(1) Single Zone with Hydronic Heating Direct Expansion Cooling (d. Step 4 – Control System Commissioning)
 - 1) Insert “(AHU-1 and AHU-2 only)” after “ventilation delay mode” in 2nd sentence
 - 2) Delete “and relief air dampers are” from 4th sentence and replace with “damper is”
- c) Paragraph 3.4.13d(3) Single Zone with Hydronic Heating Direct Expansion Cooling (d. Step 4 – Control System Commissioning): Delete the paragraph in its entirety

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28) Page 15951-56, Paragraph 3.4.13(d)(7): Immediately following this paragraph insert the following:

“3.4.14 Fan Coil Units (FC-1, FC-2 & FC-3)

- a) Fan shall be energized and the thermostat set to heating. Each space thermostat temperature setting shall be turned up so that it makes contact and fully opens the three-way, two-position valve to the heating coil. With the space thermostat temperature setting turned down the three-way, two-position valve shall close to the heating coil. When set to cooling and each space thermostat setting turned down so that it makes contact and opens the three-way, two-position valve to the cooling coil. With the space thermostat temperature setting turned up, the three-way two position cooling coil valve shall close.
- b) The fan shall be set to the 'off' position, the three-way, two-position valve shall close to its respective coil.
- c) The fan shall be set to various fan speeds (high, medium, low) and the fan speed shall change.
- d) The fan shall be set to the 'off' position and the system shall be set to heating, the space thermostat temperature setting for freeze protection shall start the fan.
- e) The results of testing each type of unit shall be logged

3.4.15 100% Outside Hydronic Heating and Cooling Coils and Electric Heating Coil; No Return Fan (AHU-3)

Steps for installation of system with return fan shall be as follows:

- a. Step 1 - System Inspection: The HVAC system shall be verified in its shutdown condition. The system shall be checked to see that power is available where required, that the outside air damper and cooling coil valve are closed.
- b. Step 2 - Calibration Accuracy Check with HVAC System Shutdown: Readings shall be taken with a digital thermometer at each temperature sensing element location. Each temperature shall be read at the DDC controller, and the thermometer and DDC controller display readings logged. The calibration accuracy of the sensing element-to-DDC controller readout for outside air, cooling coil and AHU discharge air and electric heating coil discharge air temperatures shall be checked.
- c. Step 3 - Actuator Range Adjustments: A signal shall be applied to the actuator through an operator entered value to the DDC controller. The proper operation of the actuators and positioners for all dampers and valves shall be visually verified. The signal shall be varied from live zero to full range, and the actuator travel from zero stroke to full stroke within the signal range shall be verified. It shall be verified that all sequenced and parallel-operated actuators move from zero stroke to full stroke in the proper direction, and move the connected device in the proper direction from one extreme position to the other.
- d. Step 4 - Control System Commissioning:
 - (1) With the fan ready to start, the control system shall be placed in the occupied mode, and it shall be verified that supply fan starts. It shall be verified that the outside air is closed and the heating coil and cooling coil valves and electric heating coil are under control, by simulating a change in the cooling coil and AHU discharge air temperatures through operator entered values.
 - (2) An unoccupied mode signal shall be applied, and it shall be verified that the HVAC system shuts down, and the control system assumes the specified shutdown conditions.

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- (3) With the HVAC system running, a filter differential pressure switch input signal shall be simulated at the device. It shall be verified that the filter alarm is initiated. The differential pressure switch shall be set at the setpoint.
- (4) With the HVAC system running, a freezestat trip input signal shall be simulated at the device. HVAC system shutdown shall be verified. It shall be verified that a low temperature alarm is initiated. The freezestat shall be set at the setpoint. The HVAC system shall be restarted by manual restart and it shall be verified that the alarm returns to normal.
- (5) With the HVAC system running, a smoke detector trip input signal at each detector shall be simulated, and control device actions and interlock functions as described in the Sequence of Operation shall be verified. Simulation shall be performed without false-alarming any Life Safety systems. It shall be verified that the HVAC system shuts down and that the smoke detector alarm is initiated. The detectors shall be reset. The HVAC system shall be restarted by manual reset, and it shall be verified that the alarm returns to normal.

3.4.16 Exhaust Fans

It shall be verified that the EF and interlocked devices, where applicable, operate as shown. Thermostat, where applicable, shall be set at the setpoint shown. The results of one of each type of unit shall be logged.

3.4.17 100% Outside Hydronic Dual Temperature Coil and Electric Heating Coil; No Return Fan (AHU-4 and AHU-5)

Steps for installation of system with return fan shall be as follows:

- a. Step 1 - System Inspection: The HVAC system shall be verified in its shutdown condition. The system shall be checked to see that power is available where required, that the outside air damper, dual temperature coil valve are open, and electric coil is de-energized.
- b. Step 2 - Calibration Accuracy Check with HVAC System Shutdown: Readings shall be taken with a digital thermometer at each temperature sensing element location. Each temperature shall be read at the DDC controller, and the thermometer and DDC controller display readings logged. The calibration accuracy of the sensing element-to-DDC controller readout for outside air, dual temperature coil and reheat coil discharge air temperatures shall be checked.
- c. Step 3 - Actuator Range Adjustments: A signal shall be applied to the actuator through an operator entered value to the DDC controller. The proper operation of the actuators and positioners for all dampers and valves shall be visually verified. The signal shall be varied from live zero to full range, and the actuator travel from zero stroke to full stroke within the signal range shall be verified. It shall be verified that all sequenced and parallel-operated actuators move from zero stroke to full stroke in the proper direction, and move the connected device in the proper direction from one extreme position to the other.
- d. Step 4 - Control System Commissioning:
 - (1) With the fan ready to start, the control system shall be placed in the occupied mode, and it shall be verified that supply fan starts. It shall be verified that the outside air is closed, the dual temperature coil valve and stages of electric heat are under control, by simulating a change in the dual temperature coil and electric reheat coil discharge air temperatures through operator entered values.
 - (2) An unoccupied mode signal shall be applied, and it shall be verified that the HVAC system shuts down, and the control system assumes the specified shutdown conditions.

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(3) With the HVAC system running, a filter differential pressure switch input signal shall be simulated at the device. It shall be verified that the filter alarm is initiated. The differential pressure switch shall be set at the setpoint.

(4) With the HVAC system running, a freeze stat trip input signal shall be simulated at the device. HVAC system shutdown shall be verified. It shall be verified that a low temperature alarm is initiated. The freeze stat shall be set at the setpoint. The HVAC system shall be restarted by manual restart and it shall be verified that the alarm returns to normal.

(5) With the HVAC system running, a smoke detector trip input signal at each detector shall be simulated, and control device actions and interlock functions as described in the Sequence of Operation shall be verified. Simulation shall be performed without false-alarming any Life Safety systems. It shall be verified that the HVAC system shuts down and that the smoke detector alarm is initiated. The detectors shall be reset. The HVAC system shall be restarted by manual reset, and it shall be verified that the alarm returns to normal.”

DRAWINGS:

29) Sheets C-1, C-2, C-3, C-5 and LS-1: At New Dining Facility and Barracks Nos. 7 and 8 gas lines delete “50mm” and substitute “65mm.”

30) Sheet C-6, Roof Drain Detail Plan:

- a) Add note #1 as shown on Sketch C-1, dated Aug 20, 2003
- b) Revise this sheet in accordance with the attached Sketches C-2 and C-3 dated 20 Aug 2003.

31) Sheet C-8, C-15 and C-16, Profiles: At gas lines delete “50mm” and substitute “65mm.”

32) Sheet B-1: Add the following note: “The small pavement extensions to the gated areas behind the existing dumpsters shall use the Parking Areas pavement section”.

33) Sheet SU-1: Add an additional arrow from the note “Plug (see demolition note 8)” to the existing sanitary line from MH 61 to 62 in the area of the embankment.

34) Sheets A-12, A-13, A-14, A-15, A-16, A-20, A-24, A-26, A-64, A-65, A-69, A-70, A-72, A-73, and A-76: Delete these sheets in their entirety as originally issued and substitute the attached like-numbered sheets, dated Aug 20, 2003.

35) Sheet A-17:

- a) Add the following General Note to the sheet: “1. CEILING HEIGHTS VARY. SEE FINISH SCHEDULE ON SHEET A-73.”
- b) Wall Section 2: Revise note to read “THRU WALL ... W/ WEEP HOLES...”
- c) Wall Sections 1, 2 and 3: Add an elevation mark to the uppermost horizontal line labeled TOP OF STRUCT SUPPORTS.

36) Sheet A-18:

- a) Add the following General Note to the sheet: “1. CEILING HEIGHTS VARY. SEE FINISH SCHEDULE ON SHEET A-73.”
- b) Wall Section 3: Add an elevation mark to the uppermost horizontal line labeled “TOP OF STRUCT SUPPORTS”.

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37) Sheet A-19:

- a) Add the following General Note to the sheet: "1. CEILING HEIGHTS VARY. SEE FINISH SCHEDULE ON SHEET A-73."
- b) Wall Section 8: Delete the text that reads "LINE OF WALL BEYOND" and replace it with the following text, "OUTLINE OF EXTERIOR MASONRY WALL (NORTH FACE) OF DINING AREA - 'A' FOR REFERENCE".
- c) On the right hand side of the wall section, add the following vertical dimension from the finish floor level to the bottom corner of the dashed outline, "4400".
- d) On the right hand side of the wall section, add the following vertical dimension from the finish floor level to the top of the masonry elevation labelled '6200', "6200".
- e) On the right hand side of the wall section, add the following vertical dimension from the bottom corner of the dashed outline to the top of the masonry elevation labeled '7000', "7000".

38) Sheet A-21:

- a) Scupper Overflow Detail #3: Inside the metal scupper, add a note that read, "SLOPE TO DRAIN", with an arrow pointing to the building exterior (left).
- b) Add the attached Sketch SK-A-3, date 8/20/03, to this sheet.

39) Sheet A-22: Revise this sheet in accordance with the attached Sketch SK-A-1, dated 8/20/03.

40) Sheet A-23, Typical Details: Fire Extinguisher Cabinet:

- a) Recessed Cabinet Section: Revise the vertical dimension that reads, "1300" to read "800".
- b) Cabinet Elevation: Revise the vertical dimension that reads, "1300" to read "750".

41) Sheet A-61, Louver Types:

- a) AL11: Revise the vertical dimension that reads, "3067 A.F.F." to read "3000 A.F.F."
- b) AL12: Revise the vertical dimension that reads, "3067 A.F.F." to read "3000 A.F.F."
- c) AL12: Revise the horizontal dimension that reads, "1000 M.O." to read "3000 M.O."

42) Sheet A-61, General Notes:

- a) Note 3: In the second line, correct the spelling of the word "DEFENSE".
- b) Note 3A: In the first line, correct the spelling of the word "HEAVY".
- c) Note 3A: In the second line, correct the spelling of the word "GLAZING".
- d) Note 3C: In the second line, correct the spelling of the word "PER".
- e) Note 4: Revise the second sentence to read, "SEE COLOR SCHEDULE ON SHEET A69 FOR...".

43) Sheet A-63, Brick Expansion Joint Detail:

- a) Revise title to read, "BRICK EXPANSION JOINT DETAIL (BEJ, BEJ1)".
- b) Change the horizontal dimension that reads, "10 mm" to read "10 mm @ BEJ, 25 mm @ BEJ1".

44) Sheet A-66, Window Elevation W8:

- a) Change the vertical dimension that reads, "2150" to read "2900".
- b) Change the vertical dimension that reads, "1590" to read "2340".

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- 45) Sheet A-68:
- a) Partition Type 39: Revise note that reads “DEEP LEG TRACK....A-XX” to read “DEEP LEG TRACK....DET. A, SHT. A-68”.
 - b) Add the attached Sketch SK-A-2 dated 8/20/03.
 - c) Partition Types 40 and 41: Delete nominal and actual dimensions and replace with the following note, “DIMENSION VARIES – SEE PLANS”.
- 46) Sheet E-2: Delete this sheet in its entirety as originally issued and substitute the attached like-numbered sheet, dated Aug 20, 2003.
- 47) Sheets M-05, M-06, M-07, M-08, M-10a, M-12 M-26 and M-27: Delete these sheets in their entirety as originally issued and substitute the attached like-numbered sheets, dated Aug 20, 2003.
- 48) Sheet M-11: Add the following to the end of Note 8: “Outside air shall be balanced with fan coil units turned off”.
- 49) Sheet M-15: From FCU 4 & 5 Mounting Detail, remove “(INSULATE OVER AQUASTAT)”
- 50) Sheets M-16, M-17 and M-18: : Add the following to Note #12 - “Outside air shall be balanced with fan coil units turned off”.
- 51) Sheet M-19: Change ARCH reference sheet number from A-30 to A-42 on EXHAUST DUCT SECTION.
- 52) Sheet S-01: Delete Foundation Note 5 in its entirety.
- 53) Sheet S-14: Typical Slab Placement Barracks Bldg. Detail – Revise “Section 02710” to read “Section 02620”.
- 54) Sheet S-15: Typical Drilled Pier @ Spandrel Beam Detail
- a) Revise “760 mm Nominal Shaft Diameter” to read “760 mm Minimum Nominal Shaft Diameter”.
 - b) Revise “710 mm Minimum Rock Socket Diameter” to read “760 mm Minimum Rock Socket Diameter”.
 - c) “Bottom Elevation” with “Top of Rock Socket Elevation”.
 - d) Revise the bottom extent of the “1000” dimension to be at the same level as the bottom of pier shown.
- 55) Sheet S-15: Revise the values of “Bottom Elevation Of Drilled Piers @ Column Line” for Bldg. #8 in the table to read as follows:

A1	A2	A3	A4	A5	B1	B2	B3	B4	B5
97.94	97.94	93.55	93.55	97.23	97.94	97.94	93.55	93.55	97.23

C1	C2	C3	C4	C5	D1	D2	D3	D4	D5
97.9 4	97.9 4	93.5 5	93.5 5	97.2 3	97.9 4	97.9 4	93.5 5	93.5 5	96.8 4

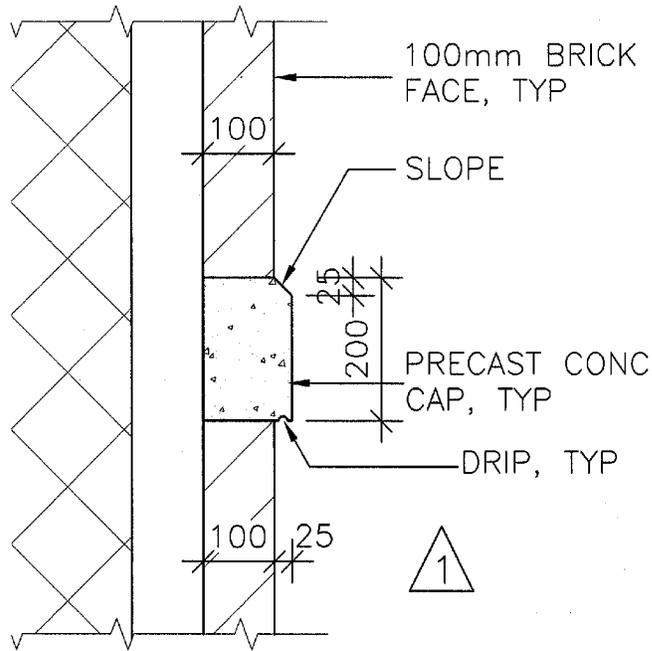
E1	E2	E3	E4	E5	F1	F2	F3	F4	F5
97.9 4	97.9 4	93.5 5	93.5 5	96.8 4	97.9 4	97.9 4	93.5 5	93.5 5	96.8 4

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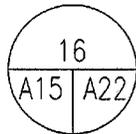
- 56) Sheet S-31: Section B – Revise “Top of Rock” to read “Top of Rock Socket”.
- 57) Sheets T-01: Delete this sheet in its entirety as originally issued and substitute the attached like-numbered sheets, dated Aug 20, 2003.
- 58) Sheet P-14: Revise this sheet in accordance with the attached Sketch SK-MP-1, dated 8/20/2003.
- 59) Sheet P-15: Revise this sheet in accordance with the attached Sketch SK-MP-2, dated 8/20/2003.
- 60) Sheet P-19: Revise this sheet in accordance with the attached Sketch SK-MP-3, dated 8/20/2003.
- 61) Sheet P-20: Revise this sheet in accordance with the attached Sketch SK-MP-4, dated 8/20/2003.
- 62) Sheet P-23: Revise this sheet in accordance with the attached Sketches SK-MP-5, SK-MP-6 and SK-MP-7 dated 8/20/2003.

ATTACHMENTS:

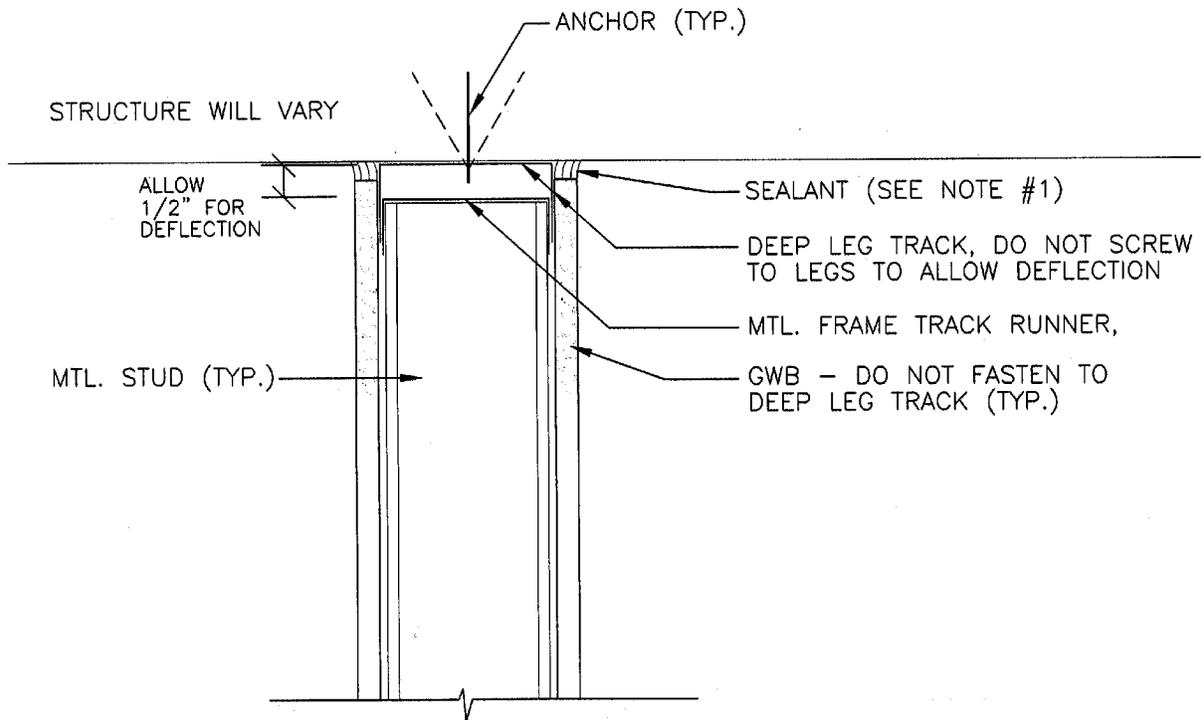
Sketch SK-A-1, dated 8/20/03.
Sketch SK-A-2, dated 8/20/03.
Sketch SK-A-3, dated 8/20/03.
Sketches SK-C-1, C-2 and C-3, dated 20 Aug. 2003
Sketches SK-MP-1, SK-MP-2, SK-MP-3, SK-MP-4, SK-MP-5, SK-MP-6, and SK-MP-7, dated 8/20/2003
Sheets A-12, A-13, A-14, A-15, A-16, A-20, A-24, A-26, A-64, A-65, A-69, A-70, A-72, A-73, A-76, and
E-2, M-05, M-06, M-07, M-08, M-10a, M-12, M-26, M-27, T-01 dated Aug 20, 2003



SECTION: PRECAST
CONC BAND, TYP



SCALE: 1 : 10 mm



A
TYPICAL DETAIL

A68
NTS

NOTE: ACTUAL CONFIGURATIONS WILL VARY



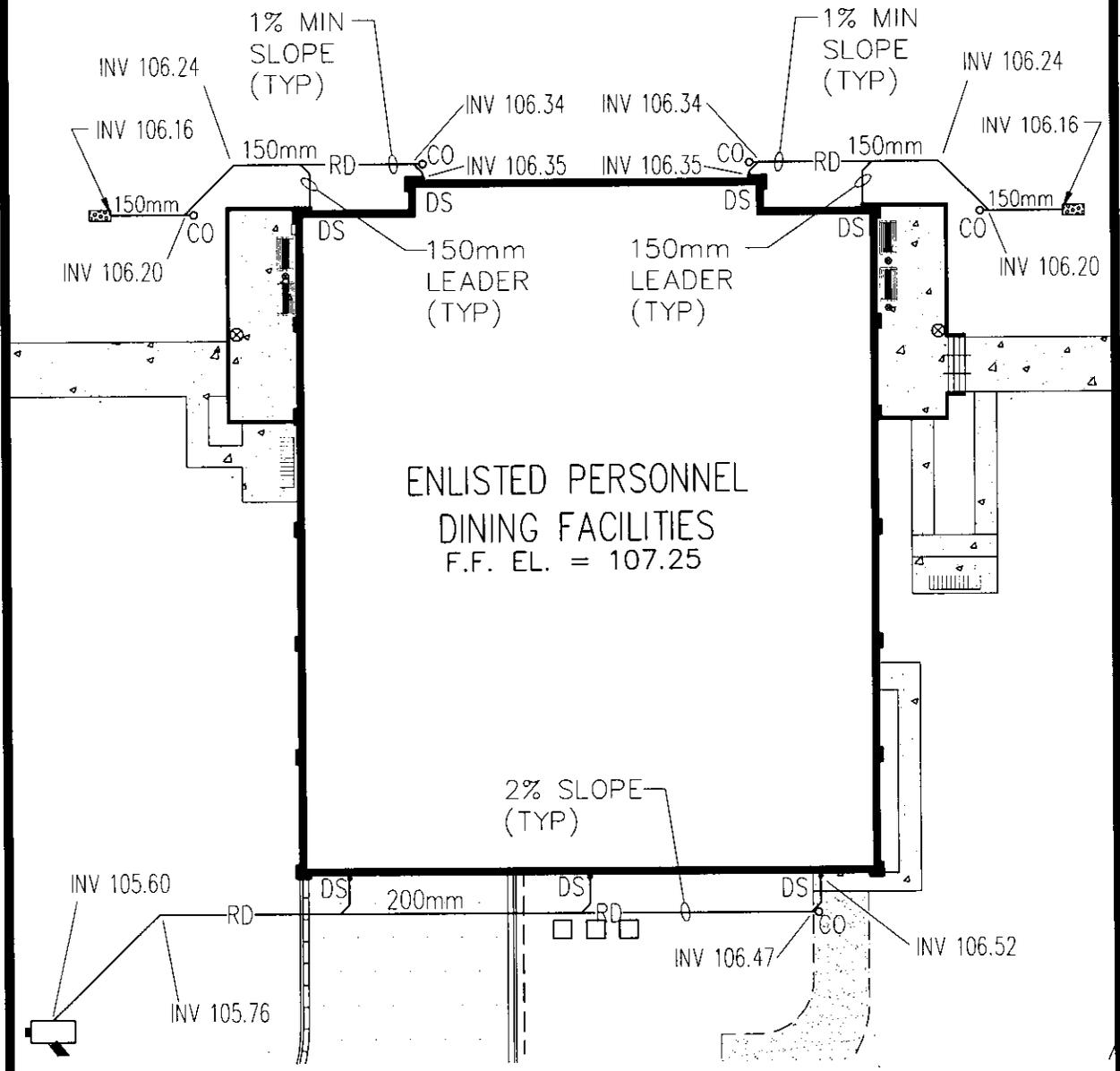
GRAPHIC SCALE 1:5

GRAPHIC SCALE

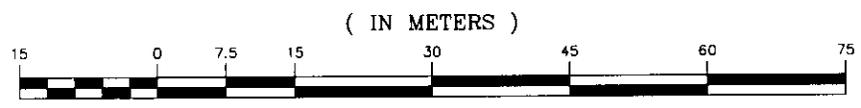
UEPH COMPLEX II
ENLISTED BARRACKS

SK-A-3
DATE: 20 AUG 2003

NOTE: ALL ROOF DOWN SPOUTS SHALL HAVE SQUARE CAST IRON BOOTS 100mm X 150mm WITH THE LENGTH TO VARY DEPENDING ON THE BUILDING ELEVATIONS. THE BOOTS SHALL BE NEENAH TYPE R-4929-O9 AND R-4929-O11 OR AN APPROVED EQUAL. BOOTS SHALL BE INSTALLED IN ACCORDANCE TO THE MANUFACTURERS RECOMMENDATIONS.



ROOF DRAIN DETAIL PLAN
GRAPHIC SCALE



1 : 750

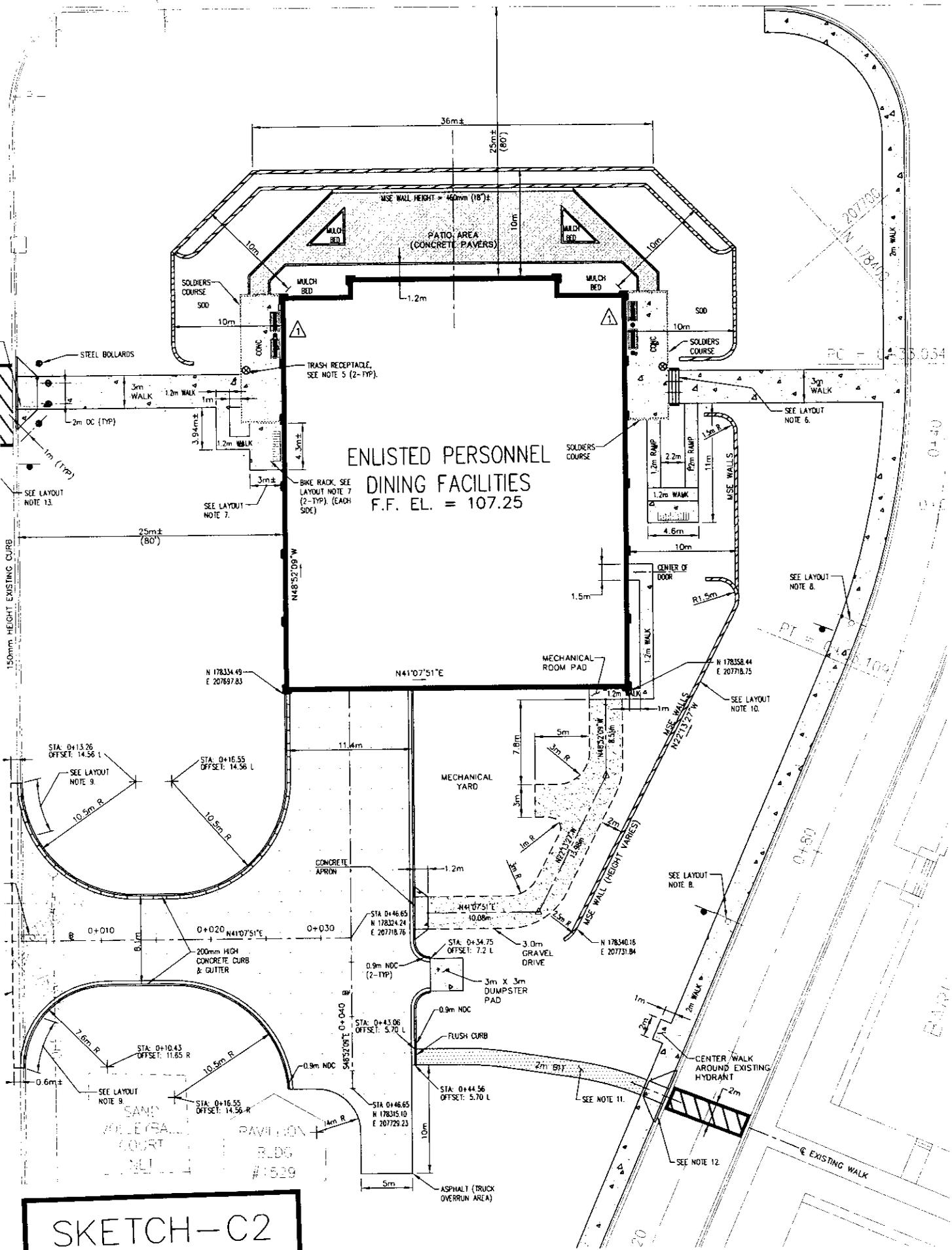
SKETCH-C1
20 AUG 03

REV	DATE	DESCRIPTION	BY
1	20 AUG 03	REVISED PER AMENDMENT	GAP



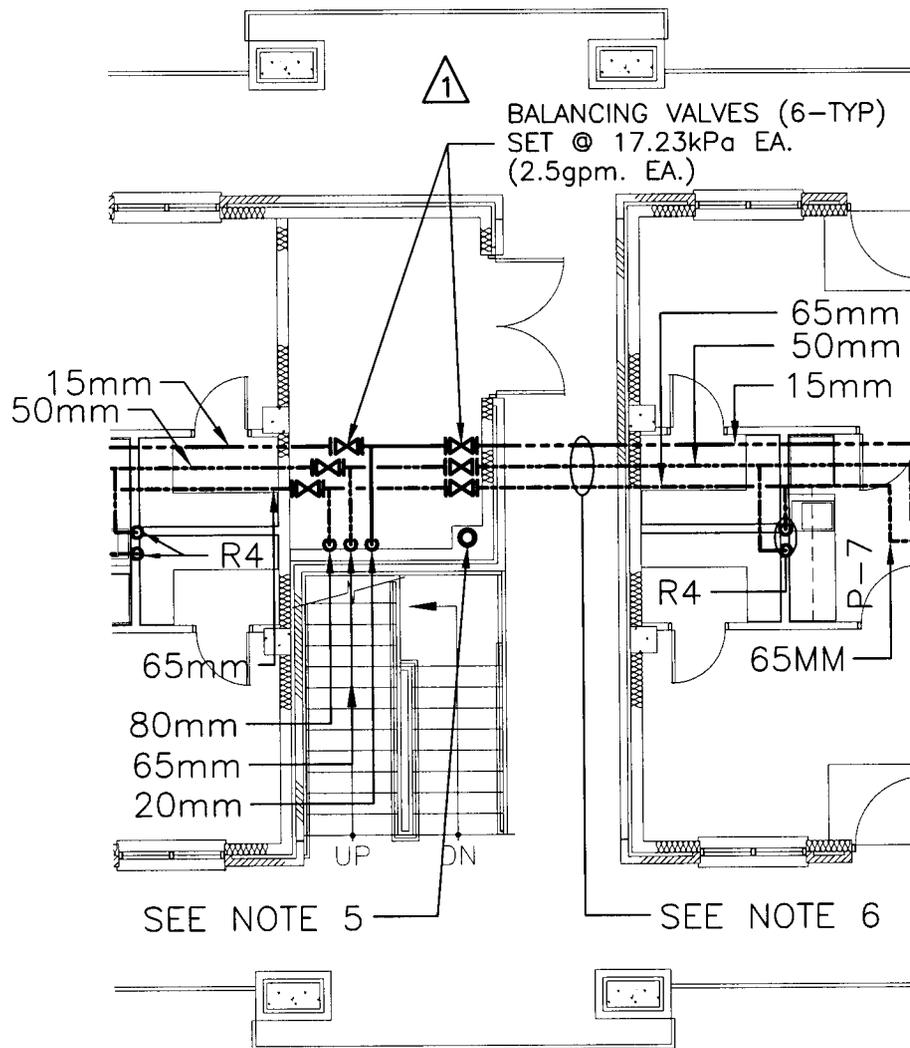
US Army Corps

U.S. ARMY ENGINEER DISTRICT, BALTIMORE
CORPS OF ENGINEERS



SKETCH-C2
20 AUG 03

LAYOUT PLAN
GRAPHIC SCALE
(IN METERS)



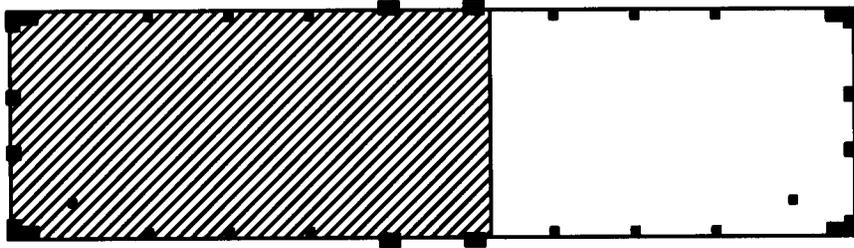
UEPH COMPLEX II

FT. DETRICK, MD

DATE - 8/20/2003

SKETCH SK-MP-1

NOT TO SCALE



KEY PLAN 
N.T.S.

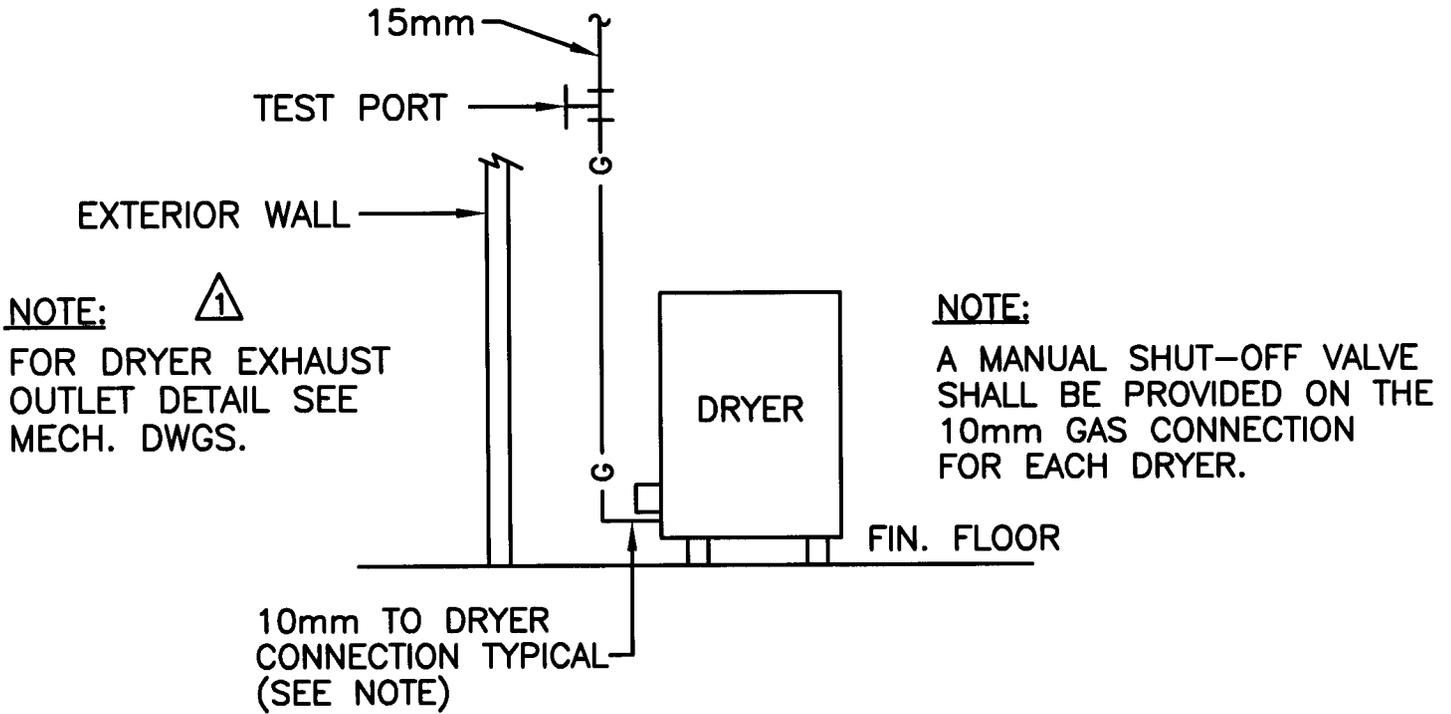
UEPH COMPLEX II

FT. DETRICK, MD

DATE - 8/20/2003

SKETCH SK-MP-2

NOT TO SCALE



DRYER DETAIL
NOT TO SCALE

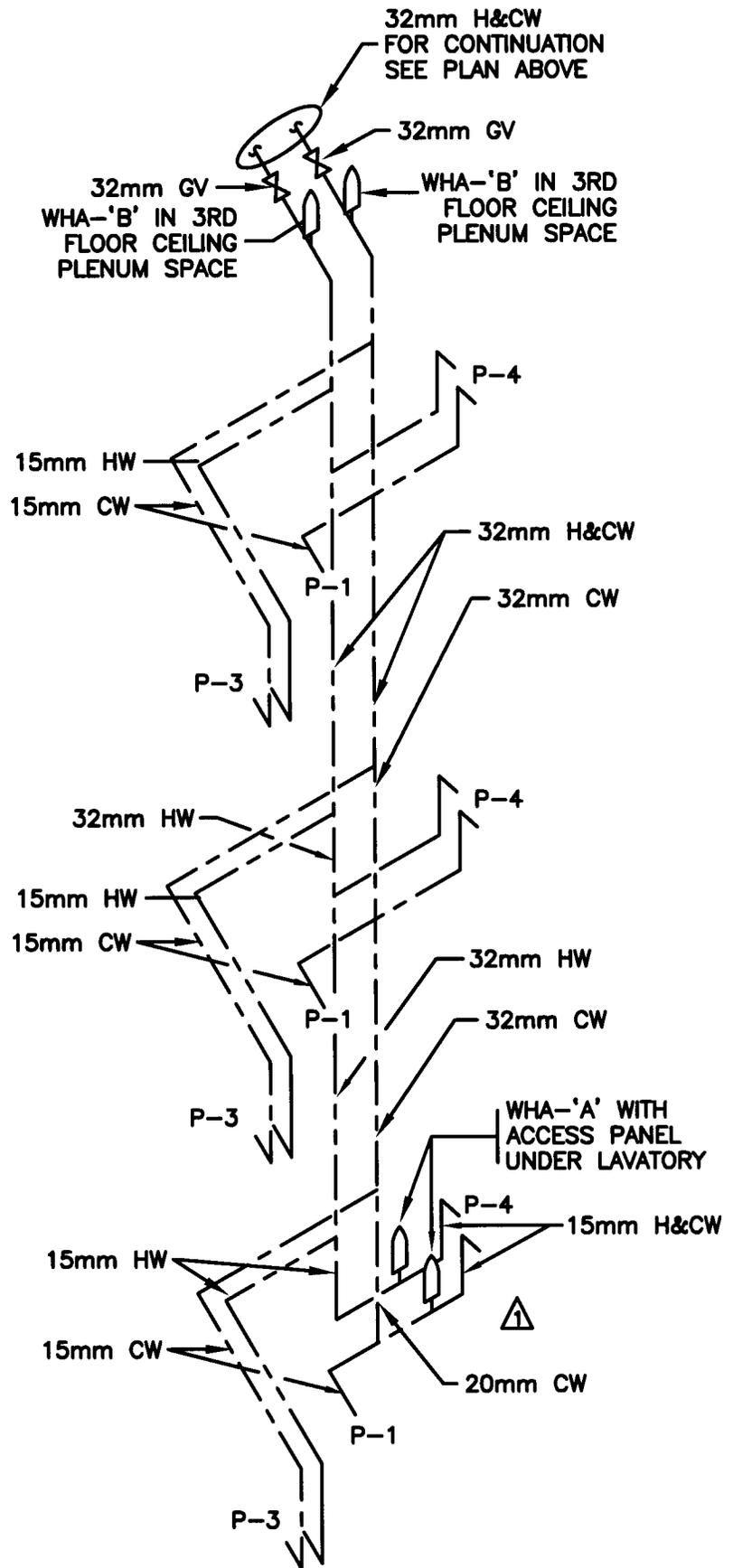
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FT. DETRICK, MD
DATE - 8/20/2003

SKETCH SK-MP-3
NOT TO SCALE

UEPH COMPLEX II

FT. DETRICK, MD

DATE - 8/20/2003

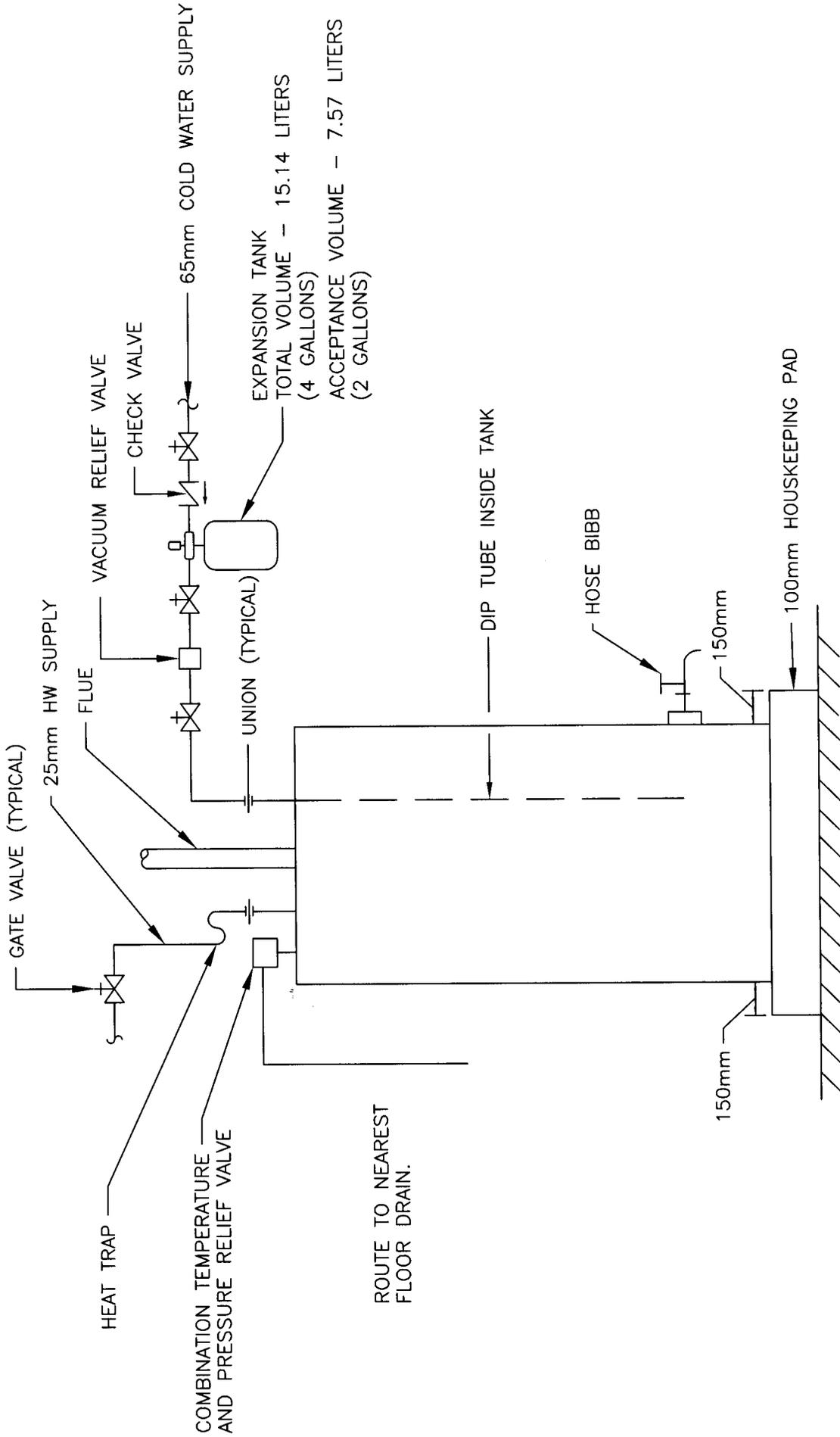


SKETCH SK-MP-4

NOT TO SCALE

DOMESTIC WATER RISER DR-1

NOT TO SCALE



DOMESTIC WATER HEATER (DWH-2)

NOT TO SCALE

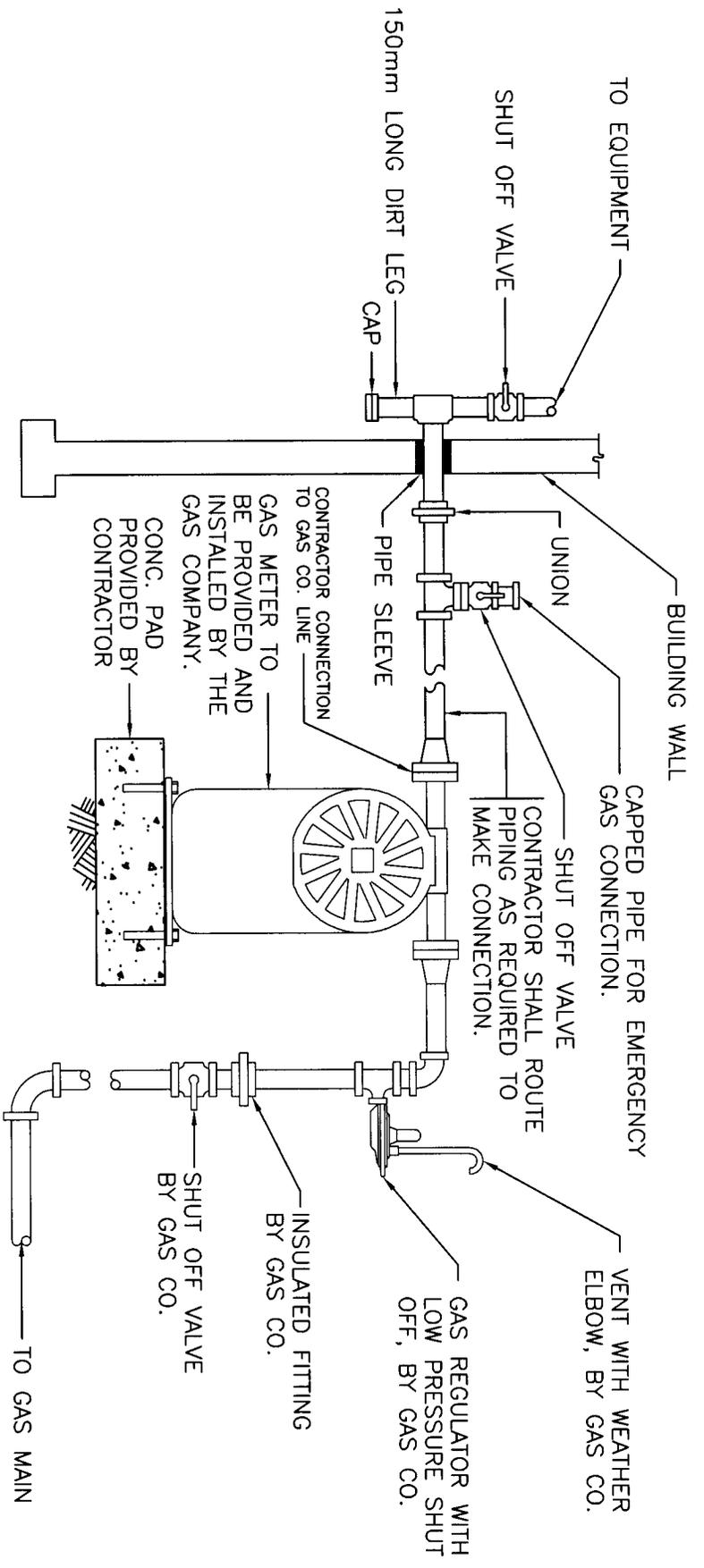
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FT. DETRICK, MD

DATE - 8/20/2003

SKETCH SK-MP-5

NOT TO SCALE



GAS METER DETAIL
NOT TO SCALE

SKETCH SK-MP-6

NOT TO SCALE

VERPH COMPLEX II

FT. DETRICK, MD

DATE - 8/20/2003



DOMESTIC HOT WATER HEATER SCHEDULE

SYMBOL	SPEC. TYPE	LOCATION	STORAGE (LITERS)	STORAGE WATER TEMPERATURE	GAS INPUT (WATTS)	RECOVERY LITERS PER HR. (MIN.)	REMARKS
DWH-1	VERTICAL	BARRACKS	1515 (EA.)	60° C	175,842(EA.)	2271(EA.)	
DWH-2	VERTICAL	COF	113.5	49° C	9,378	116.2	
DWH-3	VERTICAL	DINNING	1515	60° C	117,228	1515	

UEPH COMPLEX II

SKETCH SK-MP-7

FT. DETRICK, MD

NOT TO SCALE

DATE - 8/20/2003