

**The following changes in the tender documents are effective immediately.
This addendum will form part of the contract documents.**

DRAWINGS

- .1 M-203 Mechanical
 1. Full size sheet has been reissued.
 2. Revisions have been made to lab drainage shown on detail 2/M-203.
 3. Additional detail 3/M-203 has been added to the sheet to illustrate tie in of lab drainage to existing Lab Waste Stack #1.

- .2 M-205 Mechanical
 1. Full size sheet has been reissued.
 2. Relief vents from N2 and Ar distribution manifolds have been added to the drawing between gridlines F/17 and F/21.
 3. Additional information relating to the specification and location of oxygen level monitoring systems within the lab spaces and local to the source cylinder manifolds has been added to detail 1/M205.
 4. Location of remote alarm panels associated with the N2 and Ar manifold control panels has been added within the MAP Lab Rm 147 on 1/M205.

- .3 E100 Electrical
 - Existing wall mounted 600V, 60A disconnect switch is to remain.
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- .4 E200 Electrical
 - Drawing E200: Provide two duplex receptacles for Nitrogen Alarm Panel and Argon Alarm Panel. Provide a 15A/1P breaker in panel PP-2D1, CCT#14 c/w 2#12+G in ¾" conduit extend and connects to these receptacles as required. Panels are located approx. at grid lines 17 and F. Refer to mechanical addendum M-1 for exact location of alarm panels.

SPECIFICATIONS

- .5 Section 22 60 00 - Laboratory Gas Piping Systems
 - .1 Article 2.6 Duplex Gas Manifolds, add to the end of Paragraph .1 as follows:

Manifolds shall provide universal gas management system that can provide continuous supply of gas from either cryogenic liquid cylinders or high pressure gas cylinders, or any combination of both.

END OF SECTION

- .2 Article 2.6 Duplex Gas Manifolds, revise Sentence .3 as follows:
 - .3 Surface wall mounting, 120 volt, 1-phase, 60 Hz ~~barriered steel cabinet with hinged access door~~ **NEMA 13 cabinet** and wall mounting hardware..
- .3 Article 2.8 Pressure Switches for Alarm Signals, revise sentence .1.3 to remove reference to NEMA 4 cabinet and replace with NEMA 13.
- .4 Refer to attached reissued spec section with tracked revisions.

- .6 Add new Section 22 60 10 - Laboratory Compressed Air. Refer to attached.
- .7 Section 23 05 00 - Common Work Results - Mechanical
 - .1 Article 1.16 Tests, add Sentence .9 follows:
 - .9 Testing of Compressed Air Piping:
 - .1 Test piping with dry compressed air or nitrogen at 690 kPa (100 psi) for minimum of 2 hours.
 - .2 Test piping joints with water-soap solution while piping is under pressure to detect leaks.
 - .2 Refer to attached reissued spec section with tracked revisions.