

Environmental Review Form for Argonne National Laboratory

Click on the blue question marks (?) for instructions, contacts, and additional information on specific line items.

(?)Project/Activity Title: Building 212 Electron Microscopy Improvements.

(?)ASO NEPA Tracking No. ASO-CX-266

(?)Type of Funding: GPP

B&R Code _____

(?)Identifying number: ERF 0926 R1 WFO proposal # _____ CRADA proposal # _____

Work Project # 01244 ANL accounting # (item 3a in Field Work Proposal) _____

Other (explain) _____

(?)Project Manager: J. Frego

Signature: J. Frego

Date: 11/16/09

(?)NEPA Owner: Philip C. Rash

Signature: Philip C. Rash

Date: 11/16/09

ANL-E NEPA Reviewer: M. A. Kamiya

Signature: M. A. Kamiya

Date: 11/17/2009

(?)Description of Proposed Action:

This project will demolish the existing HVAC systems within the D Wing of Building 212 (Electron Microscopy Area). Included in this demolition are 5-fancoil units and associated duct work, and ductwork missing boxes. ^{see attached drawings for Attachment # 2} These items would be replaced by a new low-sound and specifically designed and built 30-ton air handling unit, insulated sound suppressing supply and return ductwork, and all necessary piping, valves, and sound reducing insulation. Silencers and laminar flow registers, controls, air balancing and commissioning are also included in this work.

(?)Description of Affected Environment: This work will occur both inside and outside of the Building 212 D Wing. External duct work is planned to be placed on the east exterior wall of the wing, and run approximately the north/south exterior length of the wing. The outside work will occur in previously disturbed areas. See attached for the proposed locations of the supply and return air ducts.

I. (?)Potential Environmental Effects: (Attach explanation for each "yes" response. See Instructions for Completing Environmental Review Form)

A. Complete Section A for all projects.

1. **(?)Project evaluated for Pollution Prevention and Waste Minimization opportunities and details provided under items 2, 4, 6, 7, 8, 16, and 20 below, as applicable.** Yes X No _____

2. **(?)Air Pollutant Emissions** Yes _____ No X

3. **(?)Noise** Yes X No _____

There will be minor construction noise primarily resulting from demolition actions.

4. **(?)Chemical Storage/Use** Yes X No _____

Standard construction chemicals associated with HVAC equipment Demolition and installation. MSDS sheets will be available at the work site. They will be stored and used in accordance with ANL requirements.

5. (?) Pesticide Use Yes ___ No X
6. (?) Polychlorinated Biphenyls (PCBs) Yes ___ No X
7. (?) Biohazards Yes ___ No X
8. (?) Liquid Effluent (wastewater) Yes X No ___

Potential exists for pressure testing of new HVAC piping with water. Discharge will be sent to the laboratory sewer facilities.

9. (?) Waste Management
- a) Construction or Demolition Waste Yes X No ___
- Construction debris will be disposed of per existing regulations. No contamination is assumed in existing piping.
- b) Hazardous Waste Yes ___ No X
- c) Radioactive Mixed Waste Yes ___ No X
Not expected. See 9a above.
- d) Radioactive Waste Yes ___ No X
Not expected. See 9a above.
- e) PCB or Asbestos Waste Yes ___ No X
These are not expected to be encountered, but if so, the materials will be removed per ANL procedures.
- f) Biological Waste Yes ___ No X
- g) No Path to Disposal Waste Yes ___ No X
- h) Nano-material waste Yes ___ No X
10. (?) Radiation Yes ___ No X
11. (?) Threatened Violation of ES&H Regulations or Permit Requirements Yes ___ No X
12. (?) New or Modified Federal or State Permits Yes ___ No X
13. (?) Siting, Construction, or Major Modification of Facility to Recover, Treat, Store, or Dispose of Waste Yes ___ No X
14. (?) Public Controversy Yes ___ No X
15. (?) Historic Structures and Objects Yes ~~___~~ No X

Building 212 is eligible for listing on the National Registry of Historic Places.

This proposed action ^{may} will impact the exterior façade of Building 212 on the east side of the

D Wing. ANL is assessing the site for applicability. The attached letter from IHPA determined that no historic properties would be affected. (Attachment #1)

- 16. (?)Disturbance of Pre-existing Contamination Yes ___ No X
- 17. (?)Energy Efficiency, Resource Conserving, and Sustainable Design Features Yes ___ No X

B. For projects that will occur outdoors, complete Section B as well as Section A.

- 18. (?)Threatened or Endangered Species, Critical Habitats, and/or other Protected Species Yes ___ No X
- 19. (?)Wetlands Yes ___ No X
- 20. (?)Floodplain Yes ___ No X
- 21. (?)Landscaping Yes X No ___

The work involving duct installation will require the placement of vertical supports in the soil immediately adjacent to the east facade of the D Wing. Existing grading will be maintained.

- 22. (?)Navigable Air Space Yes ___ No X
- 23. (?)Clearing or Excavation Yes X No ___

Excavation for a pad for the AHU and Plenum, plus the vertical supports for the ducts. All excavated soil will be distributed throughout the area, and the area will be brought to grade.

- 24. (?)Archaeological Resources Yes ___ No X
- 25. (?)Underground Injection Yes ___ No X
- 26. (?)Underground Storage Tanks Yes ___ No X
- 27. (?)Public Utilities or Services Yes ___ No X
- 28. (?)Depletion of a Non-Renewable Resource Yes ___ No X

C. For projects occurring outside of ANL-E or ANL-W, complete Section C as well as Sections A and B.

N/A

- 29. (?)Prime, Unique, or Locally Important Farmland Yes ___ No ___
- 30. (?)Special Sources of Groundwater (such as sole source aquifer) Yes ___ No ___
- 31. (?)Coastal Zones Yes ___ No ___

32. (?)Areas with Special National Designations (such as National Forests, Parks, or Trails) Yes ___ No ___

33. (?)Action of a State Agency in a State with NEPA-type Law Yes ___ No ___

34. (?)Class I Air Quality Control Region Yes ___ No ___

II. (?)Subpart D Determination: (to be completed by DOE/ASO)

Are there any extraordinary circumstances related to the proposal that may affect the significance of the environmental effects of the proposal? Yes ___ No

Is the project connected to other actions with potentially significant impacts or related to other proposed action with cumulatively significant impacts? Yes ___ No

If yes, is a categorical exclusion determination precluded by 40 CFR 1506.1 or 10 CFR 1021.211? Yes ___ No ___

Can the project or activity be categorically excluded from preparation of an Environment Assessment or Environmental Impact Statement under Subpart D of the DOE NEPA Regulations? Yes No ___

If yes, indicate the class or classes of action from Appendix A or B of Subpart D under which the project may be excluded. *B.2.1 Modification of an existing structure to enhance work place ^{habitability} i.e. improvements to HVAC system*

If no, indicate the NEPA recommendation and class(es) of action from Appendix C or D to Subpart D to Part 1021 of 10 CFR.

DOE-ASO NEPA Coordinator Review: Ken Chiu

Signature: Ken Chiu

Date: 3/31/10

ASO NCO Approval of CX Determination:

The preceding pages are a record of documentation that an action may be categorically excluded from further NEPA review under DOE NEPA Regulation 10 CFR Part 1021.400. I have determined that the proposed action meets the requirements for the Categorical Exclusion identified above.

Signature: Peter R. Siebach
Peter R. Siebach
Acting Argonne Site Office NCO

Date: 4/5/10

ASO NCO EA or EIS Recommendation: N/A

Class of Action: _____

Signature: _____

Date: _____

Peter R. Siebach
Acting Argonne Site Office NCO

Concurrence with EA or EIS Recommendation:

CH GLD: _____

Signature: _____

Date: _____

ASO Manager Approval of EA or EIS Recommendation:

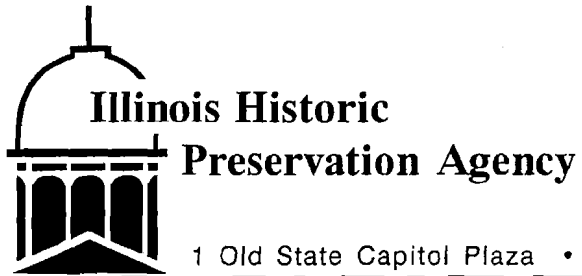
An EA EIS shall be prepared for the proposed _____ and
_____ shall serve as the document manager.

Signature: _____

Date: _____

Ron Lutha
Argonne Site Manager

ASO-CX-266
Attachment #1



ARGONNE SITE
OFFICE
MAR 01 2010
RECEIVED

FAX (217) 782-8161

DuPage County
Argonne
Ventilation System Upgrade, The Microscopy Laboratories
Building 212
IHPA Log #016122109

February 22, 2010

Dr. Joanna M. Livengood
Department of Energy
Argonne Site Office
9800 S. Cass Ave.
Argonne, IL 60439

Dear Dr. Livengood:

We have reviewed the additional documentation submitted for the referenced project(s) in accordance with 36 CFR Part 800.4. Based upon the information provided, no historic properties are affected. We, therefore, have no objection to the undertaking proceeding as planned.

Please retain this letter in your files as evidence of compliance with section 106 of the National Historic Preservation Act of 1966, as amended. This clearance remains in effect for two years from date of issuance. It does not pertain to any discovery during construction, nor is it a clearance for purposes of the Illinois Human Skeletal Remains Protection Act (20 ILCS 3440).

If you have any further questions, please contact me at 217/785-5027.

Sincerely,

Anne E. Haaker
Anne E. Haaker
Deputy State Historic
Preservation Officer

ASO-CX-206 ERF-0926 RL
Attachment #2 4/16/09

201

213

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216

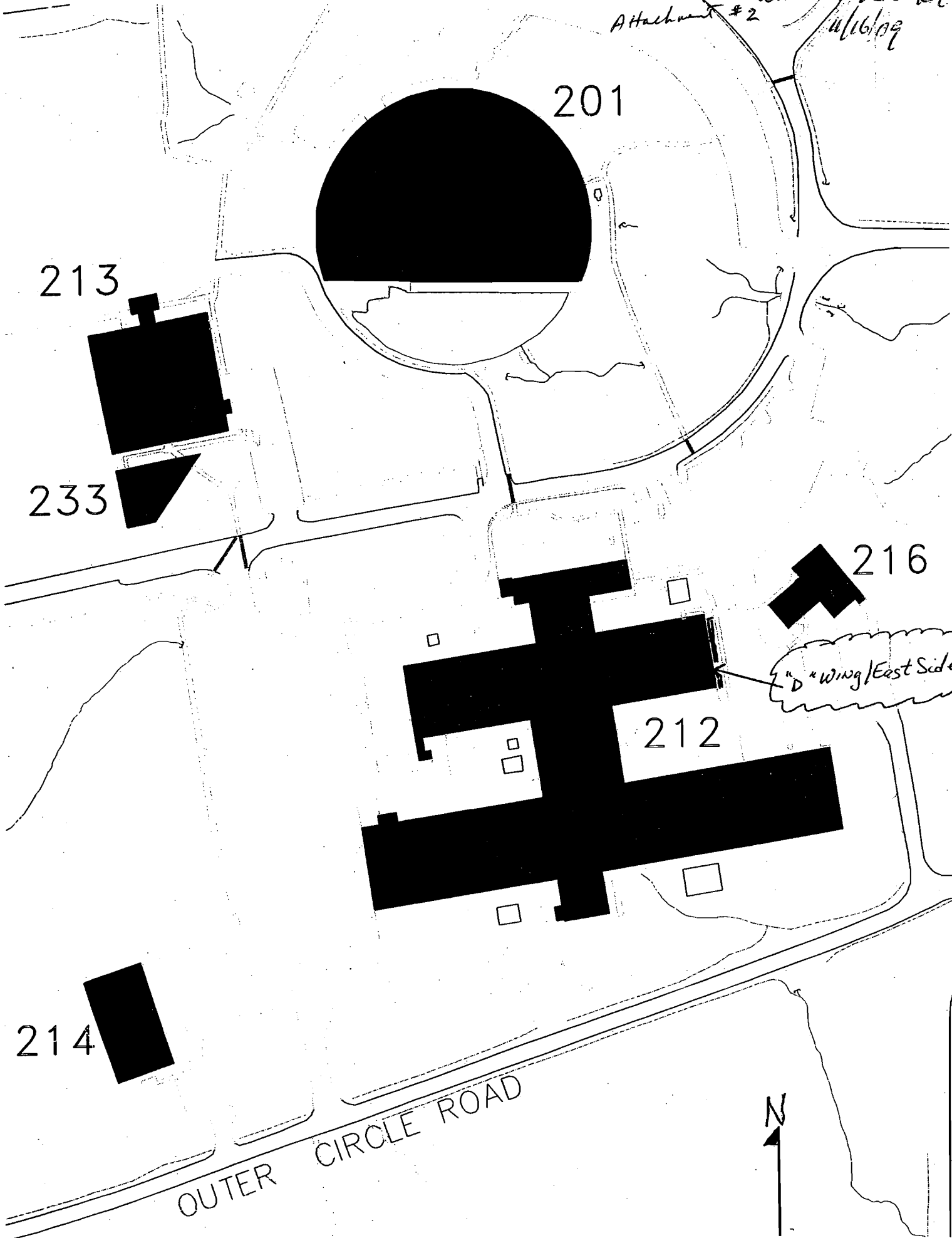
212

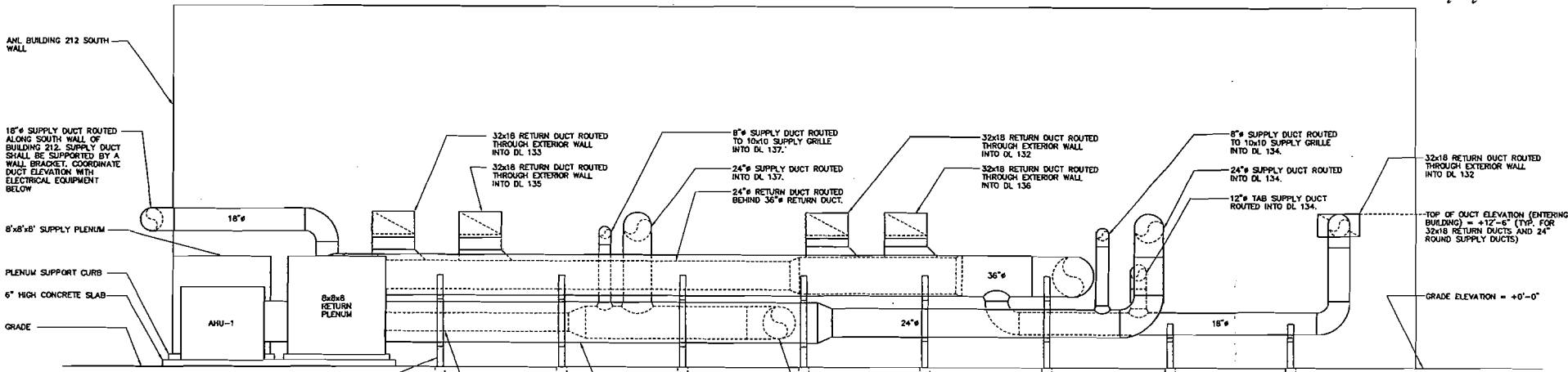
214

OUTER CIRCLE ROAD



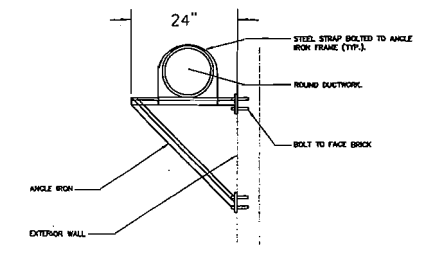
"D" wing/East Side



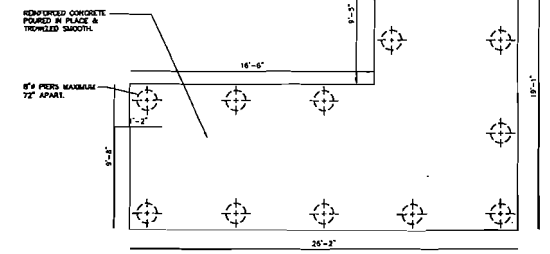


REFER TO 1/A1006 FOR EXTERIOR DUCT SUPPORT DETAIL. LENGTH BETWEEN SUPPORTS SHALL BE PER SMACNA RECOMMENDATIONS. (TYP.)

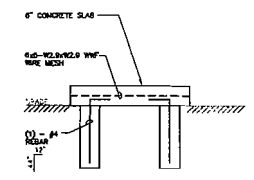
1 ELEVATION VIEW OF BUILDING EXTERIOR - "D Wing" East Wall
SCALE: 1/4" = 1'-0"



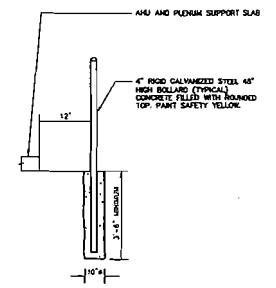
2 WALL MOUNTED DUCT SUPPORT DETAIL
NO SCALE



3 AHU AND PLENUM SLAB DETAIL
NO SCALE



4 BOLLARD DETAIL
NO SCALE



FOR REVIEW ONLY
NOT FOR
CONSTRUCTION

ENGINEERING CONSULTANTS	1510 BURNINGWATER ROAD, SUITE 600B BOSTONVILLE, OHIO 44138 440.247.2200 FAX: 440.247.2201 PROJECT: 178-W-1008		
I HAVE OPERATIONAL REVIEWED REPRESENTATIVE WORKING EXPERTISE TO THE DESIGN AND SPEC DRAWN SECTION. I AM PROVIDING MY REVIEW TO THE CONTRACTOR'S PROPERTY OF LAME DRAWINGS AND SHALL NOT BE RESPONSIBLE FOR THE PERFORMANCE OF THE PROJECTS UNLESS I AM ADVISED IN WRITING OF ANY OTHERWISE.			
REVISION SCALE IN INCHES			
REV. NO.	DESCRIPTION	BY	APPROV. DATE

Argonne
NATIONAL LABORATORY

FMS
Facilities Management & Services

PROJECT TITLE
ELECTRON MICROSCOPY IMPROVEMENT PROJECT
PROJECT NO. 9-JP76-P-00195-00
DOCUMENT TITLE

MECHANICAL DETAILS

DESIGNED E. HENDERSON	A/E CADW FILE NO. 212	FACILITY NO(S) 212
DRAWN D. WILKINS	A/E DWG. NO.	
CHECKED R. SPRANGERS	CAD NO.	
PROJECT MANAGER ANL - J. FREDDO	DWG. STATE	
DATE	BIDD ORDER	
	FACILITY DOCUMENT NUMBER J212-178-W- M008	REV. NO. 0

WARNING
IF PLAN IS ENLARGED OR REDUCED,
GRAPHIC SCALE SHALL BE USED.