



PROCTOR/DAVIS/RAY

Engineers Architects Planners

February 2, 1988

DESIGN & CONSTRUCTION
ORIGINAL TO FILES

Mr. John Bickel
Bickel Gibson Architects
505 South Third Street
Louisville, Kentucky 40202

FEB 05 1988

COPIES TO: A. Vaughan

MAIL REVIEWED BY: _____

Re: Maxwell H. Gluck
Equine Research Center
University of Kentucky

Dear John:

We have gone back over all of the punch lists which we had made on mechanical and electrical work for this project and the following is the listing of those items that are still not satisfactory.

MECHANICAL

THIRD FLOOR INTERSTITIAL SPACE

1. At the north end of the interstitial space directly opposite and east of the north catwalk entrance, the main exhaust duct has been crushed in, possibly by the installation of new electrical conduit for the central campus monitoring system.
2. The tops of some of the large rectangular ducts still have some debris which needs to be removed.
3. Just south of the first turn in the catwalk where the large offset is located, there is a wire hanger attached to the plastic waste line supporting a ceiling grid runner below. This wire should be removed and relocated.
4. Pipe insulation removed under the catwalk so that a ceiling diffuser could be installed has not been replaced. This location is opposite lighting panel LP-332.
5. Pipe insulation on piping has been damaged where the piping crosses above the catwalk at the south entrance.

FOURTH FLOOR INTERSTITIAL SPACE

1. Pipe insulation has been damaged on cold and hot water piping where they cross the catwalk entering the south portion of the interstitial space.

LTR-ALD/84021/20388

2. When the supply duct connections were made to the northwest sterile transfer room, copper piping for hot water had to be relocated. The pipe insulation has not been reinstalled on this piping.
3. At a point just south of the offset in the catwalk and east of valve No. HWS426 located beside the catwalk, there is a temperature control box for which the duct insulation has been peeled back and has never been replaced.

GENERAL NOTES FOR INTERSTITIAL SPACES

1. Piping attached to the temperature control boxes has never been insulated adjacent to the box. This piping gets cooled down below dew-point when cooling cycle is on and no heat is required and the sweating will damage ceilings below.
2. Where pipe insulation has been damaged by condensation it will need to be removed and replaced with new insulation.

FOURTH FLOOR

1. Room 402A Freezer - Escutcheon on sprinkler head is not tight against the ceiling.
2. Room 430 - Escutcheon missing from sprinkler head.

THIRD FLOOR

1. Room Nos. 317 and 321 - The adjusting handle is missing on return air grille.
2. Room 335 - The return air grille is out of position.

FIRST FLOOR

1. Men's Toilet 104 - The adjusting handle is missing on the return air grille.
2. Rooms 105 and 106 - Adjusting handle missing on return air grille.
3. Locker Rooms 113 and 117 - The air quantity in these two rooms needs to be checked because there does not seem to be sufficient air particularly for heating. Need to check ATB-15 which serves the north-south and east-west corridors at the south end of the building, first floor. Particularly during heating cycle there does not appear to be sufficient air for this purpose.
4. Room 136 - The gas outlet immediately to the right as you enter the door still appears to be too hard to turn.

BUILDING B

1. Room 153 - Where the discharge duct off of the fan goes into the ceiling that duct needs to be repositioned and probably have an escutcheon or flange put around the duct to hide this opening in the ceiling.
2. Room 156 - The check valve installed in the cold water piping behind the service sink is not the type specified. Also, check valves are called for in both hot and cold water lines. In this same pipe chase the pipe insulation has been removed and so far has not been replaced. In addition, there has been some vapor seal damage on the pipe insulation.

MAIN ROOF OF BUILDING A

1. Touch up paint on the Twin City fan for the perchloric acid hood exhaust.
2. The wall hydrant connection for the Fire Department on the south wall of the north penthouse has two types of connections by different manufacturers. They should both be Elkhart.

OUTSIDE THE BUILDING, WEST SIDE NEXT TO THE POOL

1. Redress the grade around sanitary manhole for ease in mowing grass.
2. Manhole cover for generator exhaust was pushed out of position late in the construction and has never been repositioned.

BASEMENT MECHANICAL ROOM

1. The color coding on the piping needs to be checked against the actual numbers specified and the letter written previously on this subject by PDR. The pipe insulation on the heating hot water piping adjacent to the Cuno filter has been replaced but not in a satisfactory manner.

NORTH PENTHOUSE

1. The pump supplying deionized water to the building has developed a peculiar noise and should be checked quickly.
2. Paint has been damaged on some of the fans and has never been repaired.

SOUTH PENTHOUSE

1. The paint has been damaged on some of the fans and has not been repaired.

ADDITIONAL ITEMS

The following items have been discussed among the various parties but were not on the original punch list made during the official inspections:

1. Utility markers have not been installed on the mechanical work.

Mr. John Bickel
Page 4
February 2, 1988

2. The final check needs to be made on the flow of laboratory air into each laboratory space.
3. The air balance data which was submitted to PDR needs to be corrected in accordance with the final adjustments that have been made, particularly after the change order work was completed.
4. The control shop drawings needs to be revised and the necessary new sheets inserted into the control submission for the University.
5. At times there has been a vibration in Building B that apparently is coming from the penthouse above but is observed in a vibration in the heating piping in the ceiling of the main floor of Building B. I have heard it on two different days and it is extremely annoying. I have also been there two other days immediately adjacent to the original days and it was not apparent. When this does occur we need to determine the source and get it corrected.

ELECTRICAL

The electrical punch list items that are remaining are indicated on the attached sheets 1 - 18.

Yours very truly,

PROCTOR/DAVIS/RAY, INC.

By 
Ansel L. Davis, P.E.

ALD:et

Encl.

cc: Alex Vaughan, U.K.
David Powers, R & W Construction

LTR-ALD/84021/20388

Maxwell H. Gluck Equine Research Center
Electrical Inspection January 29, 1988

Legend

- |1| Not Used.
- |2| Device plate not flush with wall.
- |3| Panel nameplate not installed.
- |4| Panel directory card not installed.
- |5| Light bulbs not working.
- |6| Light fixture lens dirty or debris in fixture.
- |7| Scratches on panel cover.
- |8| Computer outlet covered by cabinets.
- |9| Receptacle covered by cabinets.
- |10| Paint on device/device plate.
- |11| Device plate not installed.

Electrical Inspection January 29, 1988
Basement and Penthouse Notes

Building B Penthouse

Put cap on empty conduit stub up near MCCPB.
Clean all MCC equipment. Remove tape, glue, styrofoam, etc.
AH-3 motor power drop needs to be supported from floor.

Basement Building A

Room 000

Install covers on telephone and computer bull boxes.
Support flex at condensate pump, footing drain pump, and sanitary pump.
Label hot water circulating pump disconnect switches.
Open J-Box west wall near fire pump.

Room 001

Cap all unused conduit stub-ups and conduit through walls.

Room 002

Switch for MCCPB missing nameplate.
Touch up scratches on switchgear.
Panel PB door doesn't close properly.
Panel EPD door doesn't close properly.
3 J-boxes missing covers; over EF-7 starter, above switchgear.

Room 003

OK

Room 004

OK

Room 005

OK

Room 007

Conduit stub ups to be removed north wall.

South Penthouse

Clean MCC, remove dirt, tape, etc.
Secure conduit drop to EF-4, extend conduit to motor support and secure; do not clamp flex to motor support.
Light fixture in northeast corner, secure flex to roof steel.

North Penthouse

Label disconnects for Culligan System.
Secure conduit drop to EF-14 and EF-15, extend conduit to motor support and secure; do not clamp flex to motor support.

Fourth Floor Interstitial Space

Label 600a plug-in unit for MCCPN.
North of LP-430 ceiling grid T-bar under catwalk has been hung
from electrical conduit with elec. insulated wire.

Third Floor Interstitial Space

|11| south door.
Label 600a plug-in unit for MCCPS.
1st light fixture (underneath catwalk) at the south entrance
has flexible conduit pulled out of clamp.

Additional Items

Room 318

Plug mold extends into the space for fume hood 318-29; plug mold to
be shortened or traded with another shorter piece.

Room 122B

Need WP covers on all receptacles.

Room 110

Dimmer knobs are loose.
Install bar across dimmer knobs all three panels
Panel engraving to be colored so the nomenclature is readable

Fume hood in 318 is to be plugged into a ceiling mounted receptacle fed
from the circuit shown on the drawings and is not to be plugged into
the wire mold.

Outside canopy light at loading dock door does not come on; check wiring
and thermal overload.

Provide Guarantee, Specs. S16050, 1.04.

Provide all identification markers, Specs. S16050, 2.03.

Provide Certificate of Compliance, Specs. S16050, 3.02.C.

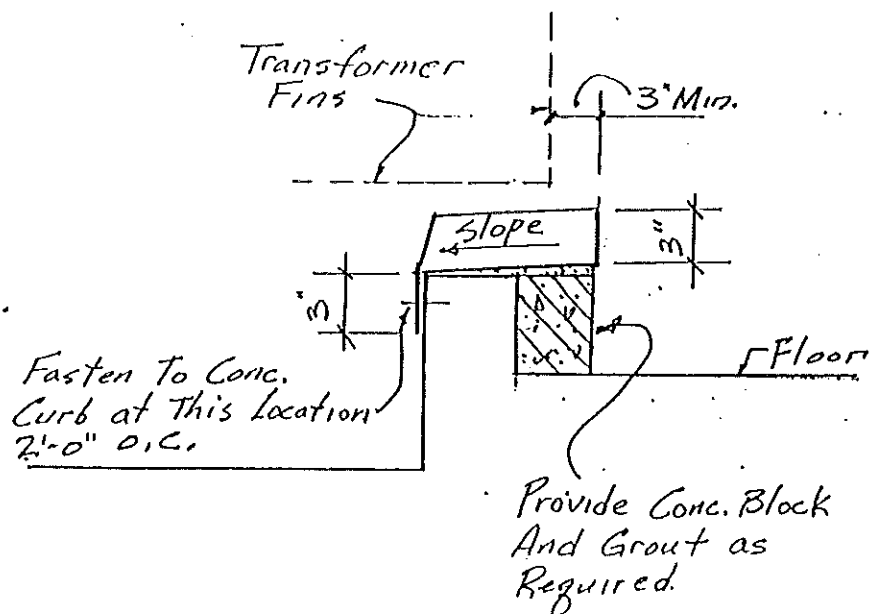
Insure that all equipment has been cleaned and painted, Specs. S16050,
3.03.

Provide copies of all data on tests and inspections performed, Specs.
S16050, 3.07 and S16950.

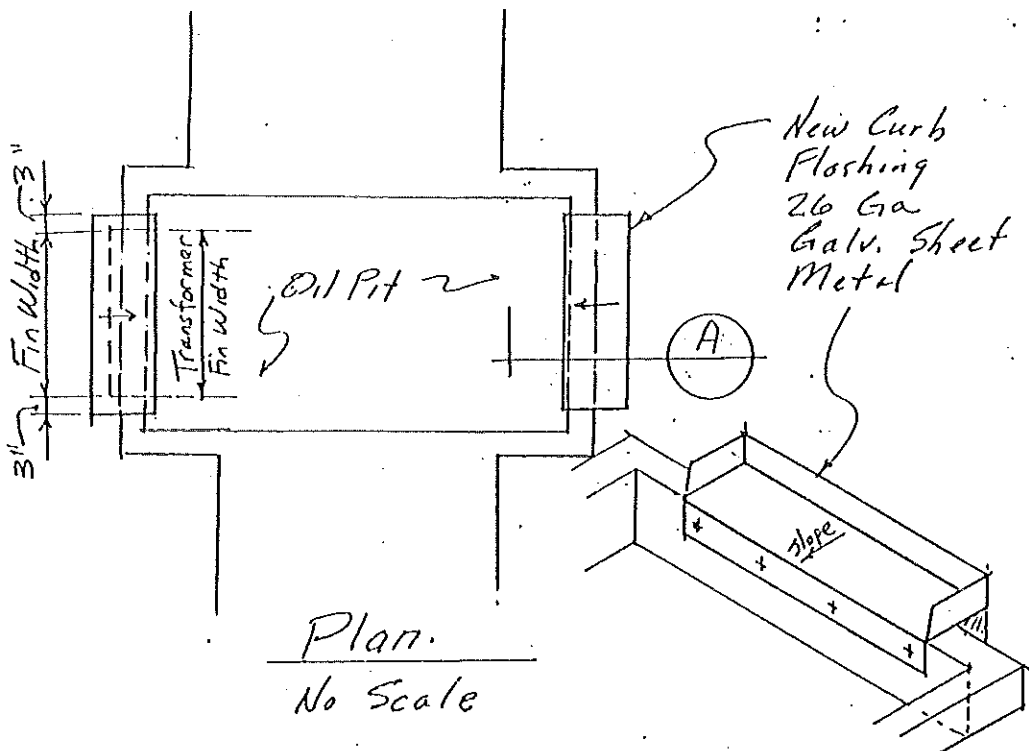
Light fixtures have no wire supports installed where required. See
Specification S16500, Para. 3.01.F & G. All receptacles, light
switches, device plates and panelboards should be cleaned.

The fire alarm annunciator panel is unacceptable - see separate letter.


Transformer pit sheet metal flashing not installed properly. Re-install
as shown on attached supplemental drawing.



DETAIL "A"



TITLE: *Gluck Equine Research Center* Proj. No. 230.1
University of Kentucky.

 PROCTOR-DAVIS-RAY CONSULTING ENGINEERS	DRAWN: <i>LTV</i>	APPROVED:	SKETCH NO.
	CHECKED:	DATE <i>2/13/87</i>	

Electrical Inspection January 29, 1988.
First Floor Notes

Room 100
OK

Room 100A
OK

Room 100B
OK

Room 100C
|6| 2 fixtures.
Panel interior dusty.
Light fixture nearest to lobby should be on normal power, not
emergency.

Corridor 100D
|6| 4 fixtures.
|2| fire alarm a/v station.
Panel LP-1 interior dusty.

Room 100E
OK

Corridor 100F
|6| 6 fixtures.

Corridor 100G
|2| Panel LP-5.
Panels EP-1, P-1S, LP-5 interiors dusty.

Room 102
OK

Room 103
OK

Room 104
Both recepts. not straight.
Pipe chase - |11| light switch, 1 fixture not installed, fixture
missing light bulb.

Room 105
Disconnect switch, SVO cable, and ground wire associated with
electron microscope not installed.

Room 106
|2| recept. south wall, light switch south wall, recept. on column
east wall.
|10| recept. south wall.

Room 107
OK

Room 108
Recept. west wall not installed.
Telephone outlet east wall not installed.
1 jumbo device plate installed.

Room 108A
|6| 2 fixtures.
1 jumbo plate installed.

Room 108B
|2| recept. west wall, recept. south wall.
Recept. east wall not installed.

Room 108C
1 jumbo plate installed.

Room 108D
2 jumbo plates installed.

Room 109
|6| 1 fixture.
|8| (telephone outlet).

Room 110
|5| all recessed can lights, 2 fixtures over seats.
1 1x4 light fixture lens warped.
Wireway not installed in projector cabinet.
All three lighting control panels should be thoroughly cleaned.

Corridor 110A
OK

Room 110B
OK

Room 112
OK

Room 113
OK

Room 114
OK

Room 114A
OK

Room 114B
OK

Room 116
OK

Room 117
OK

Pipe Chase (between rms. 113 and 117)
OK

Room 118
OK

Room 119
|10| 208 volt recept. north wall, recept. south wall.
1 duplex recept. not installed south wall.
1 208 volt recept. not installed north wall.
1 duplex recept. installed on north wall not on plans.

Room 121
|6| 1 fixture.
|2| recept. south wall.

Room 122
|6| 4 fixtures.
|2| Panel LP-3.
208 volt recept. north wall not installed.
Panel LP-3 interior dusty.

Room 122A
OK

Room 122B
OK

Room 122C
OK

Room 123
OK

Room 125
OK

Room 126
|2| fire alarm pull station.
|2| Panel LP-4.

Room 126A
Recepts. need to have weatherproof covers installed. (7 total)

Room 127
|2| recept. south wall.

Room 129

|6| 1 fixture.

Room 131

OK

Room 134

|11| light switch, recept. east wall.

Room 136

One 208 volt receptacle needs a weatherproof cover installed.

Room 138

OK

Electrical Inspection January 29, 1988
Second Floor Notes

Corridor 200

|6| 2 fixtures, exit light east wall.
|2| fire alarm pull station east wall, recept. east wall, fire alarm
a/v station east wall.
Panel P-2N nameplate installed crooked.

Room 201

OK

Room 202

|6| 4 fixtures.
|2| lower light switch, 2 recepts. on columns.
Second group of floor outlets - normal recept. plate scratched, I.G.
recept. cover needs brass screws.
Third group of floor outlets - computer outlet scratched.

Room 203

|2| recept. west wall

Room 204

|6| 1 fixture.
|2| recept. north wall.

Room 205

|2| both recepts.

Room 206

|6| 4 fixtures.
Recept. north wall not straight.
2 jumbo device plates installed.

Room 207

OK

Pipe Chase

1 light fixture not installed.

General Notes

Light fixtures have no wire supports installed where required. See
Specification S16500, Para. 3.01.F & G.

Electrical Inspection January 29, 1988
Third Floor Notes

Room 302
|7|

Room 308
No recepts. installed in walk-in cooler.

Room 308B
OK

Room 304
|6| 2 fixtures.
|2| I.G. recept. west wall.

Room 306
|6| 1 fixture.
|2| 1 recept. north wall.

Room 312
|6| 2 fixtures.
|2| light switch, recept. west wall.
Recepts. west bench shorting out.

Room 318
|7|

Room 318A
OK

Room 320
OK

Room 324
Panel cover missing 2 screws.

Room 328
|9| 2 recepts. north wall.
Wiremold south wall missing 1 I.G. duplex recept.

Room 330
OK

Room 332
|7| Panel door will not stay closed.

Room 332A
|8|
No exhaust fan or manual starter as shown on plans.

Room 336
|7| Panel door will not stay closed.

Room 338
OK

Room 340
|7|

Room 340A
OK

Room 344
|6| 1 fixture.

Room 346
OK

Room 346A
OK

Room 346B
|2| light switch north wall.

Room 348
|2| 2 recepts. east wall, 2 recepts. south wall.
|10| recept. west wall, 2 recepts. south wall.

Corridor 300
|6| 6 fixtures.
|10| fire alarm pull station at north elevator.
Fire alarm a/v station south end not straight.

Room 307
OK

Room 309
OK

Room 311
OK

Room 313
OK

Room 317
OK

Room 319
OK

Room 321
|2| recept. east wall, recept. west wall.

Room 323

|2| recept. west wall.

Room 325

|6| 1 fixture.
|2| recept. west wall.

Room 327

|2| light switch, recept. west wall, recept. north wall.

Room 329

OK

Room 331

|2| recept. west wall, recept. south wall.

Room 333

|6| 1 fixture.
|2| recept. north wall, recept. south wall, recept. west wall.

Room 335

|2| light switch, recept. north wall.
1 jumbo plate installed.

Room 337

|2| recept. north wall, light switch, recept. east wall, recept. south wall.

Room 339

|2| recept. west wall.

Room 341

|2| recept. west wall, recept. north wall.

Room 343

|2| recept. east wall.

Room 345

OK

General Notes

Light fixtures have no wire supports installed where required. See Specification S16500, Para. 3.01.F & G.

Electrical Inspection January 29, 1988
Fourth Floor Notes

Room 402
|6| 5 fixtures.

Room 402A
|10|

Room 402B
OK

Room 404
|7|
Light fixture sagging (4th fixture back).

Room 404A
|5| 1 fixture.

Room 406
|6| 1 fixture.

Room 406A
OK

Room 408
OK

Room 412
|6| 1 fixture.
|7|

Room 412B
OK

Room 416
|7|
|5| 1 fixture.

Room 416B
OK

Room 418
OK

Room 422
|7|

Room 422A
OK

Room 426

Panel trim not secure around breakers; screw missing, panel interior.

Fixture s.e. corner not flush w/ceiling.

Room 430

|7|

Fixture north wall not flush w/ceiling.

Room 436

OK

Room 440

|6| 1 fixture.

|5| 1 fixture.

|7|

Room 444

|7|

|6| 3 fixtures.

Room 446

|7|

Room 448

OK

Room 450

|6| 2 fixtures.

Room 447

OK

Room 445

|5| 1 fixture.

|6| 1 fixture.

Room 443

|2| I.G. recept. south wall.

Room 441

OK

Room 439

|5| 1 fixture.

Room 437

|2| light switch.

Room 435

OK

Room 433

OK

Room 431

|6| 1 fixture.

|2| light switch, I.G. recept. south wall, recept. west wall.

Room 429

|2| recept. west wall, telephone outlet south wall.

Room 427

|2| I.G. recept. south wall

Room 423

|6| 1 fixture.

|2| light switch north wall.

Room 421

|2| recept. west wall.

Room 413

OK

Room 411

OK

Room 407

OK

Corridor 400

Exit light south of restrooms not straight.

General Notes

Light fixtures have no wire supports installed where required. See Specification S16500, Para. 3.01.F & G. There is no light fixture installed in the elevator shaft on the north end.

Electrical Inspection January 29, 1988
Building 'B' & Building 'C' Notes

Corridor 140

|6| 2 fixtures.

Exit sign at Room 151 should be a double-face sign.

Room 141

OK

Corridor 142

|2| |10| recept. at Room 159.

Room 143

Receptacle cover loose.

Room 145

OK

Room 146

208 volt recept. not installed on north wall (would be covered by cage washer if it was installed). Should install blank device plate over box.

Room 147

OK

Room 149

OK

Room 151

OK

Room 152

Fire alarm heat detector not installed.

Room 153

Recept. at door not installed.

Lights will not stay turned off.

Room 154

OK

Room 155

OK

Room 156

|2| recept. and light switch.

Room 158

|10| light switch.

Room 159
OK

Room 160
OK

Room 241
See Building 'B' Penthouse Comments.

Building 'C'
OK

General Comments
Outside light fixture at Room 160 is on emergency; should be on normal power.
Outside light fixture at Bldg. B loading dock burned out.

Gluck Equine Research Facility
PDR Job No. 84021
Review of Electrical Operations and Maintenance Manuals
Ref. Spec. Section 16050, Para. 1.03.B

- Item 1. Volume I, Section I: Electrical warranty letter and Inspection Certificate omitted.
- Item 2. Volume I, Section VIII: The overall schematic of the fire alarm system and the fire alarm system layout drawings omitted.

1143

file

UNIVERSITY OF KENTUCKY
LEXINGTON, KENTUCKY 40506-0005

Lexington Campus
Physical Plant Division

215 Frank D. Peterson Service Bldg.

MEMO

TO: Bill Reesor

FROM: John W. Zachem

Re: GLUCK EQUINE RESEARCH BUILDING
PROJECT NO. 230

Date: February 23, 1988

The following is a report on the deficiencies at the reference faculty. The report is a collection to previous lists made by a number of observers, and through walk through by Jim Hall and myself. The previous lists were compiled and during my walk through the building and with discussions with Mr. Hall they were edited to include those item which were felt to be still requiring completion.

The following is a list of documents and inspections used to compile this list.

Building walk through 2/19/88 by B. Reesor, K. Wiley, J. Hall, and J. Zachem

Building walk through 2/16/88 and 2/18/88 by J. Hall and J. Zachem.

Richard McClure's letter to Vince Mayberry 1/22/88

Craig Hardin's letter to Alex Vaughan 10/22/87

Post construction conference minutes 10/19/87

Bill Reesor's walk through notes 6/19/87

Ken Wiley's report to B. Reesor on
1/19/88, 11/30/87, 11/12/87, 10/30/87, 10/19/87,
9/30/87, 9/14/87, 7/31/87, 6/10/87, 5/22/87, 5/15/87,
5/11/87, 4/27/87, 4/13/87,

Joseph Graft report on inspection of building 8/4/87

In addition, included is a listing of punch list item not complete as compiled by the Engineering Firm of PDR.

ENCLOSURES

CC: James E. Wessels, Jack Applegate, Ken Wiley

Facility: GLUCK EQUINE RESEARCH FACILITY

Project # 230.1

Date Report Completed: 2/23/88

Note: This document contains a listing of the deficiencies cited by the surveyor as requiring corrections or explanations. In the column Provider's Plan of Correction or Explanation, the statements should reflect the facility's plan for corrective action and anticipated time for correction.

Statement of Deficiencies
Noted by Surveyor

Provider's Plan of Correction
with Time Table

BUILDING "A" BASEMENT MECHANICAL ROOM

1. Interior Stair (S-1) from basement to reception area, handrail loose on wall. (K. Wiley report 4/13/87) (K. Wiley report 5/11/87) Handrail has been repaired, wall needs to be painted (walk through 2/16/88)
2. Electrical junctions boxes in mechanical room in basement have covers missing. (K. Wiley report 4/13/87)
3. Basement mechanical room, pipe insulation appears to be less than normal thickness. Canvas wrap on steam and hot water lines has been omitted. (K. Wiley report 4/13/87)
4. Basement mech. room pilot lights on condensate pump switches and sanitary pump switch not work. (K. Wiley report 4/13/87) (J. Hall report 2/12/88)
5. Basement air handler for mechanical room, not provided with heating or cooling coils. (K. Wiley report 4/27/87) Ductwork not installed possibly omitted due to change order. (walk through 2/16/88)
6. Basement, mechanical room, control air compressor auto-drain and air lines installed directly on floor. (K. Wiley report 5/15/87) (K. Wiley report 6/10/87)
7. At east exterior stairs and stair to basement, and in the emergency generator room, the fluorescent light fixtures installed are not exterior type and have interior ballast. This is an unheated area. Also stair lights are not controlled and must stay on at all times. (K. Wiley report 5/22/87) (K. Wiley report 6/10/87) Exterior stairway #3 still has indoor type light fixture, ends are open and covers full of insects. (J. Hall report 2/12/88)
8. Condensate pumps running continuously. (K. Wiley report 7/31/87) Basement Mechanical Room, condensate pump #1, not pumping down. #1 runs until #2 pumps down condensate. (K. Wiley report 10/30/88) Pump has been repair, strainer clean, however, sump needs to be cleaned out. (walk through 2/16/88)
9. Room 004 and 005 temperature is +80 degrees AHU not cooling. Well may be too small. (K. Wiley report 9/14/87)

10. Emergency generator monitor does not indicate properly. (K. Wiley report 10/30/87) Generating indicating light. (walk through 2/16/88)
11. Stairway #3 to mechanical room needs an additional light fixture very dark at bottom, could be a hazardous area. (J. Hall report 2/5/88)
12. Basement rooms, doors, etc. have not been identified or numbered. (J. Hall report 2/5/88)
13. Leak on reheat supply line from basement mechanical room to stairway heating unit. (J. Hall report 2/12/88)
14. Insulation on reheat piping in question. Specification 15252-3 item F says that flanges and unions shall be insulated. (J. Hall report 2/12/88) Insulation incomplete at units. Insulation should be taken to within 12 inches of the unit connection. (walk through 2/16/88)
15. Need 1/2 inch OD line from high temperature cut off relief to drain on domestic water booster pump. (walk through 2/16/88)
16. No by-pass line on domestic water booster pump system. This is recommended on the manufacturer piping diagram. (walk through 2/16/88)
17. Non-rising stem gate valve used on domestic hot water heater steam condensate line. (walk through 2/16/88)
18. Temperature gauge on domestic ^{cold} water line behind domestic hot water heater has the wrong range. (walk through 2/16/88)
19. Non-rising stem gate valve used on Domestic water service entrance at the backflow preventer system. (walk through 2/16/88)
20. Painting is incorrect at a number of places. The condensate return line are painted incorrectly. (walk through 2/16/88)
21. Non-rising stem valve on perimeter sump discharge line at ceiling. (walk through 2/16/88)
22. Valve on HPS side of LPS reducing station leaking. Also, valve has handle fixed to stem. Question rating on valve. (walk through 2/16/88)
23. Two holes and sleeves in ceiling above chilled water lines at entrance to building. These holes are not used and should have been patched. (walk through 2/16/88)
24. Non-rising stem valve on air separator. (walk through 2/16/88)

25. Fuel oil day tank has no retaining basin around it. (walk through 2/16/88)

Code??

26. No pilot positioner on pressure reducing station pressure regulating valve. (walk through 2/16/88)

27. Insulation at MTHW line needs to be painted.

28. Back flow relief valve leaking on make-up to MTHW. (walk through 2/16/88)

29. Expansion tank on high pressure side of pumps for MTHW system. (walk through 2/16/88)

30. Pumps disconnects are mounted on unpainted plywood board for the MTHW pumps. (walk through 2/16/88)

31. Structure ceiling pan cover left in concrete, above MTHW pumps. (walk through 2/16/88)

32. EF-7 wash down programmer controller not labeled. (walk through 2/16/88)

33. EF-7 wash down programmer not programmed (Joe Graft has the programmer interface controller). (walk through 2/16/88)

34. Non-rising stem on sanitary sump discharge line. (walk through 2/16/88)

35. Telephone line run exposed along north wall of mechanical room. May just be temporary. (walk through 2/16/88)

36. Where new conduit was run by communication to telephone room, the wall was not patched around conduit. (walk through 2/16/88)

37. No escutcheons on sprinkler line in phone room and elevator equipment room. (walk through 2/16/88)

38. Sprinkler system feed line need backflow preventer. (J. Graft report 8/4/87)

39. DCW booster pump needs check valve on discharge. (J. Graft report 8/4/87)

40. Backflow on reheat system mounted to high. 9 ft. AFF. (J. Graft report 8/4/87)

41. Reheat pump systems does not operate properly. Left pump will only run in manual position, pump switch on BC control panel will not operate pumps. Pumps do not have lead lag control. (J. Graft report 8/4/87)

42. Cannot find check valve in Reheat pumps. (J. Graft report 8/4/87)

- 43. Reheat converter should have parallel trapping. (J. Graft report 8/4/87)
- 44. Cooling coil on air dryer needs cleaning. (J. Graft report 8/4/87)
- 45. Insulation on condensate sump line not complete. (Walk through 2/19/88)
- 46. Insulation on condensate sump lines painted the wrong color. (Walk through 2/19/88)
- 47. Need air gap on Backflow preventer for Domestic water service. (Walk through 2/19/88)

48. Dust in MCC panels need to be cleaned out. (Walk through 2/19/88)

MOE

49. Revised Sheet metal pan under Transformer does not extend 3 inch past fins on transform as shown on drawings. (Walk through 2/19/88)

MOE

50. Day tank for the emergency generator is leaking. (Walk through 2/19/88)

MOE

51. Railing in stair #1 needs to be secured between 1st floor and basement mechanical room. (Walk through 2/19/88)

BUILDING "A" FIRST FLOOR

Men's restroom

1. No access to valves in shaft behind men's restroom. Valves are located in this area for outside hose bib. (J. Hall report 2/12/88)

2. Men restroom chase has J-boxes open, duct hanger loose, pipe supported from pipe, wall not fire stopped air vent not piped to drain. (walk through 2/16/88)

3. Water stain on ceiling above door at men's restroom. (walk through 2/16/88)

4. Men's restroom stall door damaged at top and bottom. (walk through 2/16/88)

5. Door bumper for stall in men's restroom on wrong side of stall. (walk through 2/16/88)

6. Latch needs replacing on towel and waste paper cabinet men restroom. (J. Hall report 2/12/88)

7. Men's room pipe hanger off in floor in chase. (J. Hall report 2/12/88)

Ladies restroom

1. Toilet partition latch missing in the ladies restroom. (J. Hall report 2/12/88)

Room 104

1. Room 104, insulation missing on exterior wall. (K. Wiley report 4/13/87)

Room 108

1. Room 108B, a piece of insulation missing on exterior wall. (K. Wiley report 4/13/87)

2. Room 108B strike plate on door frame is up side down. (walk through 2/16/88)

3. Room 108B Water stain on ceiling above door. (walk through 2/16/88)

Lobby/Foyer

1. Lobby east entrance to 100C, aluminum door frame damaged. (K. Wiley report 5/22/87) (K. Wiley report 6/10/87)

2. Electric door latch on main entrance door is incomplete. (K. Wiley report 9/14/87)

3. Main entrance foyer, light fixture blowing fuses. Bad ballast. (K. Wiley report 9/30/87) Fixture has been replaced with fixture which does not match existing fixture. Different type of lamps required. (walk through 2/16/88)

4. Sprinkler head collar has fallen off of sprinkler in foyer area. (walk through 2/16/88)

Room 109

1. Room 109 Flour, light out and lights in hood out. (K. Wiley report 9/14/87) light in hood not accessible. (walk through 2/16/88)

2. Room 109, No heat, reheat coil cold, contractor checking. (K. Wiley report 1/26/87)

3. Gas flag valve turned backwards. (J. Graft report 8/4/87)

4. Lab has no R.O. water. (J. Graft report 8/4/87)

Room 110

1. Room 110, Door closures need adjusting. (K. Wiley report 9/14/87)

Storage/Janitor's

1. Janitor's room duct insulation not taped or finishes on end at reheat coil. (walk through 2/16/88)
2. Janitor's room insulation on pipe to reheat coil not completed. (walk through 2/16/88)
3. Janitor's room air vent drain not piped to drain. (walk through 2/16/88)
4. Janitor's room air vent manual should be automatic. (walk through 2/16/88)

Corridor

1. Panel LP-1 rusting and scratched. Look to be several years old and used. (walk through 2/16/88)
2. Room 121, plaster breaking off around door frames. (K. Wiley report 9/30/87)
3. Ceiling tile water stained outside of room 129. (Walk through 2/19/88)
4. T-stat leaking air next to south entrance. (Walk through 2/19/88)

Auditorium Service Corridor

1. In the corridor behind the auditorium, the ladder to the catwalk is unsafe. (K. Wiley report 4/13/87) (K. Wiley report 6/10/87)
2. Auditorium service corridor water stain in ceiling. (walk through 2/16/88)

Auditorium

1. Auditorium, Contractor has loosened the lamps in 2 emergency lights (fluorescent) said they interfered with the projector screen. (J. Hall report 2/5/88) Request by Roy Leach building manager.
2. Some Auditorium seat-steps lights are out. The lights are not accessible to change lamp. (J. Hall report 2/12/88)
3. Lighting control bank on left side to stage has light out on control selection indication light. (Walk through 2/19/88)

Room 114

1. Sprinkler heads in cooler need to be protected. (J. Graft report 8/4/87)
2. Internal rooms missing room numbers. (J. Graft report 8/4/87)
3. Lock jamb on door frame needs to have tape removed. (J. Graft report 8/4/87)
4. Gap between countertop and walk-in cooler needs to be filled. (J. Graft report 8/4/87)
5. Flag valve for vacuum on lab island table next to hood turned backward. (J. Graft report 8/4/87)
6. Sprinkler head escutcheon not installed. (J. Graft report 8/4/87)
7. Power strip not installed behind door. (J. Graft report 8/4/87)
8. Flammable storage area under hood needs to have backplate and shelves reinstalled. (J. Graft report 8/4/87)

Room 114C

1. Perchloric Acid fan Exhaust fan #7 not working. (walk through 2/18/88)

Room 126

1. Room 126 horse examine room hole covers for post are not recessed and could be hazardous to horses. (walk through 2/18/88)
2. Room 126 drain line for cooler run to floor drain in cooler. (walk through 2/18/88)
3. Room 126 electrical outlets in cooler are standard surface mounted outlets, no provisions for moisture protection. (walk through 2/18/88)
4. Upper right door on hoistway off loading dock does not latch properly. (J. Graft report 8/4/87)
5. Caulking around door frame needs repair. (J. Graft report 8/4/87)
6. Spray paint repairs to sink by cooler needs finishing. (J. Graft report 8/4/87)

Room 131

1. South elevator sump pump discharges into slop sink in janitor's closet. (J. Graft report 8/4/87)

Stair # 2 1st floor

1. Ceiling tile out at first floor or stair #2. (walk through 2/18/88)

South entrance

1. 1st floor, south entrance double doors rain blows inside. (K. Wiley report 10/30/87)

Janitor's closet room 134

1. First floor south janitors closet door hits sprinkler lines. (K. Wiley report 9/30/87)
2. Building A, 1st floor janitors closet, sprinkler lines not painted. (K. Wiley report 11/30/87)
3. Valve tamperproof switch for sprinkler line not wired into the sprinkler system. (walk through 2/18/88)
4. First floor janitor closet Room 134, the ladder to the catwalk is not secured to the wall properly. (K. Wiley report 4/13/87) (K. Wiley report 6/10/87) (J. Graft report 8/4/87)

Room 138

1. Need floor tile around drain pipes behind door. (J. Graft report 8/4/87)

UTILITY CAT WALK SYSTEM FIRST FLOOR (corridor behind aud.)

1. Door is extremely dangerous. (J. Graft report 8/4/87) (Walk through 2/19/88)
2. Handrail on cat walk still loose at the end near fan units for auditorium. (K. Wiley report 9/14/87) (J. Graft report 8/4/87)
3. Gauge on supply line for auditorium AHU is upside down. (walk through 2/18/88)
4. Disconnect on AHU not labeled. (walk through 2/18/88)
5. Dirt and trash above dimmer panels needs to be cleaned up. (walk through 2/18/88)
6. Access to Auditorium Supply or Return Fans is difficult and hazardous. The catwalk in this area will not permit access to these units. (K. Wiley report 4/13/87) (K. Wiley report 6/10/87) (J. Graft report 8/4/87)

7. Auditorium, rear hallway, above ceiling, motor on return air fan not properly aligned. (K. Wiley report 5/22/87) (K. Wiley report 2/10/87)

8. Light fixture hanging loose. (J. Graft report 8/4/87)

UTILITY CAT WALK SYSTEM FIRST FLOOR (at janitor closet 134)

1. Manual air vent on hot water coil, no drain line for vent, and vent location will be difficult to reach. (walk through 2/18/88)

2. Hanger on KHWR line has been removed and should be replaced. (walk through 2/18/88)

3. DI Plastic line run in chase to penthouse. (walk through 2/18/88)

4. Control plastic piping run in chase to penthouse. (walk through 2/18/88)

5. No hardware on door into chase. (walk through 2/18/88)

6. No light in this area. (walk through 2/18/88)

7. Need firestopping around floor penetrations and open sleeves. (J. Graft report 8/4/87)

BUILDING "A" SECOND FLOOR

Stair # 1 (North Stair)

1. Building A, 2nd floor east outside stairs, railings at 1st and 2nd landings cut short and do not fit well. (K. Wiley report 5/15/87) (K. Wiley report 6/10/87)

Room 203

1. Missing sprinkler escutcheon. (J. Graft report 8/4/87)

Library

1. Library wood rail overlooking vestibule just inside entrance is splitting. (walk through 2/18/88)

2. Library water stain, 2 location, at ceiling next to east wall under cooler on 3rd floor room 308. (walk through 2/18/88)

3. Pipe chase north end wall insulation laying in floor of chase. (walk through 2/18/88)

4. Pipe chase north end copper water pipe not insulated. (walk through 2/18/88)

Room 206

1. Missing light cover on down flood. (J. Graft report 8/4/87)

2. Door rubs on carpet. (J. Graft report 8/4/87)

Corridor

1. Outside of men's restroom ceiling tile water stained. (Walk through 2/19/88)

BUILDING "A" THIRD FLOOR

Room 302

1. Light in hood not working. (J. Graft report 8/4/87)

Room 308

1. Walk in cooler appears to be creating condensate underneath and leaking through to library below. (Walk through 2/18/88)

2. Sprinkler heads need protection. (J. Graft report 8/4/87)

3. Sprinkler head escutcheons missing. (J. Graft report 8/4/87)

Room 312

1. Noise in return air grills on high setting. Air balance contractor will check. (K. Wiley report 9/14/87)

2. Fire horn wall Plate missing in hallway. (J. Graft report 8/4/87)

Room 318

1. D.I. Water line plugged off on lab table on east wall under windows. (K. Wiley report 9/14/87)

2. Water stain on ceiling tile. (walk through 2/18/88)

3. Hood does not have light bulbs in it. (J. Graft report 8/4/87)

Women's restroom

1. Towel cabinet lock broken. (K. Wiley report 10/30/87)

2. Toilet partition latch missing in the ladies restrooms. (J. Hall report 2/12/88)

3. Latch need replacing on towel and wastepaper cabinet for men's room. (J. Hall report 2/12/88)

Room 332A

1. Water stain on ceiling tile. (walk through 2/18/88)
2. Need filler panel on casework on outside wall. (J. Graft report 8/4/87)

Room 340

1. Some lab turrets are bronze instead of chrome. (J. Graft report 8/4/87)

Room 340A

1. Cooler added in room, light fixture is blocked by cooler and will not be able to change lamp. Also, supply diffuser is blocked by cooler. (walk through 2/18/88)

Janitor Closet

1. Defective hot water faucet. (J. Hall report 1/29/88)
2. Janitor's closet at south end of building, sprinkler head cover missing. (walk through 2/18/88)

Stair #2 (South Stair)

1. South stair, third floor door closing arm hitting top of door. (K. Wiley report 9/14/87)
2. Concrete uneven at step into hall. Step built into concrete from hall to stairwell landing that will cause someone to trip. (J. Graft report 8/4/87)

Balcony

1. Under side of balcony has water spots appears to be leaking from above. (Walk through 2/19/88)

UTILITY CAT WALK SYSTEM THIRD FLOOR

1. 180 degrees converter unit not insulated, (K. Wiley report 9/14/87)
2. DI, DCW, DHW, GAS, AIR, AND VAC. lines are running over floor of catwalk at each of the two entrance. (walk through 2/18/88)

3. 14 inch parasitology exhaust duct running down the middle of the catwalk. (walk through 2/18/88)
4. Disconnects on the south end of the catwalk not marked. (walk through 2/18/88)
5. Reheat coil are inaccessible. (walk through 2/18/88)
6. Steam 180 deg F. hot water heater inaccessible. (walk through 2/18/88)
7. 3 inch sanitary Y blocking the catwalk. (walk through 2/18/88)

BUILDING "A" FOURTH FLOOR

Room 402

1. Sprinkler head in walk-in box needs protection. (J. Graft report 8/4/87)

Room 404

1. No floor drain provided in this room for sterilizer equipment. (K. Wiley report 5/15/87) (K. Wiley report 6/10/87)

Room 408

1. Hot wires stuck in ceiling in corridor. Light fixture was omitted because duct was in the way. (K. Wiley report 9/14/87)
2. Missing room numbers. (J. Graft report 8/4/87)

Room 412

1. Sprinkler head in walk-in box needs protection. (J. Graft report 8/4/87)

Room 422

1. Dark room warning lights missing on corridor and darkroom doors. (J. Graft report 8/4/87)

Room 430

1. There is no access panel to the solenoid valves water valves for the Perchloric acid fan duct in the north east corner of the room. Access has been made by removing light fixtures. (K. Wiley report 4/13/87) (K. Wiley report 6/10/87)

Room 444

1. Vacuum not working on bench behind door and back of room. (J. Graft report 8/4/87)

Room 446

1. Not enough room provided for access to blower panels on clean air rooms next to the outside walls. (K. Wiley report 5/22/87) (K. Wiley report 5/10/87)
2. No Vacuum in clean air rooms. (J. Graft report 8/4/87)
3. Ductwork above cleanroom dripping condensate (near window) (J. Graft report 8/4/87)
4. Water in fluorescent light diffuser. (J. Graft report 8/4/87)

Women's Restroom

1. Soap dispenser broken. (K. Wiley report 10/30/87)

Men's Restroom

1. Towel cabinet lock broken. (K. Wiley report 10/30/87)
2. Need strike plate on chase door. (J. Graft report 8/4/87)

UTILITY CAT WALK SYSTEM FOURTH FLOOR

1. Room 446, clean air room, more duct being added obstructing cat-walk above. (K. Wiley report 5/15/87)
2. Exhaust duct collapsed at north end of catwalk. (Walk through 2/19/88)

BUILDING "A" NORTH MECHANICAL PENTHOUSE

1. In the north penthouse the pipe sleeves are not 1" above floor as specified. This is in the D.I. water treatment area. The slab below the storage tank will allow water to leak through to the ceilings below 4 each openings. (K. Wiley report 4/13/87) (K. Wiley report 6/10/87)
2. North penthouse, area between VAV-1 and outside wall is very dirty, excess trash in the space. (K. Wiley report 5/11/87) (K. Wiley report 6/10/87)
3. North and south penthouse window sills have sharp metal edges exposed. (K. Wiley report 5/11/87) (K. Wiley report 6/10/87)
4. Drain line from back flow preventer in north penthouse is cut off above the floor, not extended to a floor drain. The same device mounted very close to structure preventing access to the test ports. (K. Wiley report 5/11/87) (K. Wiley report 6/10/87)

5. North and South Penthouse, clean up and fire stop around telephone conduit that has been added and other locations where conduit has been added by electrical contractor. (K. Wiley report 9/30/87) (K. Wiley report 10/30/87)
6. North and South penthouses, back flow preventer on glycol system leaking. (K. Wiley report 10/30/87) North Penthouse leak on DCW make-up to glycol system, Valve off at this time. (J. Hall report 1/29/88)
7. North penthouse, no gauges provided on glycol system. (K. Wiley report 10/30/87)
8. North penthouse, ultra-violet light out on R.O. water system. System goes off daily on low water pressure, need to get culligan into check system, and change out rock salt. The U.V. light is specified to have two U.V. lamps in the units, apparently has only one, has been off (out of service) before. (K. Wiley report 11/30/87)
9. North penthouse, window needs backer-rod and caulking. (K. Wiley report 1/19/88)
10. Steel plate under R.O. storage tank will not stop water from going down through the floor onto the elevator. (J. Graft report 8/4/87)
11. Brine tanks for water softener have common rock salt in them. Pellet salt should be installed. (J. Graft report 8/4/87)
12. Backflow preventer for R.O. system is mounted to high. (J. Graft report 8/4/87)
13. Siamese head going to roof has a cutoff valve 9 ft. off the floor. (J. Graft report 8/4/87)
14. Discharge on booster pump on DCW line to softener does not have a check valve. (J. Graft report 8/4/87)
15. Exhaust duct to fan on penthouse roof does not have adequate support on horizontal run. (J. Graft report 8/4/87)
16. Sanitary vent line by column near EF-14 is in a bind by suction side ductwork to EF-14. (J. Graft report 8/4/87)
17. Backflow preventer mounted to high. 9 ft. AFF. (J. Graft report 8/4/87)
18. MPS, MTHW, and MTHWR pipes need support at the top of pipe chase. (J. Graft report 8/4/87)
19. MPS dirt leg does not have drain valve in either penthouse. (J. Graft report 8/4/87)

20. Preheat coil condensate line subject to freezing. Does not have adequate slope. (J. Graft report 8/4/87)
21. Unit Heater missing AAV. (J. Graft report 8/4/87)
22. North stairwell not firestopped to penthouse. (J. Graft report 8/4/87)
23. Sprinkler ball valve to elevator not supervised. (J. Graft report 8/4/87)
24. VAV-1 Fan System
 - a. Fan belts need to be lightened. (J. Graft report 8/4/87)
 - b. Glycol coil needs to be combed out. (J. Graft report 8/4/87)
 - c. Sheaves need to be aligned, belts are in an offset bind. (J. Graft report 8/4/87)
 - d. Fan housing on discharge side of fan has many air leaks. (J. Graft report 8/4/87)
25. Chilled water lines on FCU at top of stairs have differential pressure gauge installed but do not have valves necessary to make this line keep from short circuiting. (J. Graft report 8/4/87)
26. Backflow for R.O. system leaking. (Walk through 2/19/88)
27. Guard for fan shaft and belts for Exhaust Fan 15 not OSHA. (Walk through 2/19/88)
28. Panel P6H is installed on it's side in the MCC. (Walk through 2/19/88)

BUILDING "A" SOUTH MECHANICAL PENTHOUSE

1. The south penthouse, the fins on the glycol coils are bent. (K. Wiley report 4/13/87) (K. Wiley report 6/10/87)
2. South Penthouse, tubing turns on several coils are exposed and can be easily damaged. Some damage at present. (K. Wiley report 4/13/87) (K. Wiley report 6/10/87)
3. Building A, south penthouse, fan unit VAV-2, prefilters for the box filters do not fill rack, several spacers in use. (K. Wiley report 5/11/87) (K. Wiley report 6/10/87)
4. South penthouse roof, fan EF13, disconnect loose inside fan housing. (K. Wiley report 5/11/87) (K. Wiley report 6/10/87)
5. Open hole at edge of motor control center needs to filled. (J. Hall report 2/18/88)

6. Sprinkler line to elevator shaft has an unsupervised ball valve. (J. Graft report 8/4/87)
7. Glycol heat recovery backflow preventer is mounted too high. (J. Graft report 8/4/87)
8. VAV-2 Fan System
 - a. Fan discharge section has air leaks at exterior panel joints. (J. Graft report 8/4/87)
 - b. Discharge vibration isolation joint has rip in lower corner near outside wall. (J. Graft report 8/4/87)
 - c. Chilled water piping on CWS to coils are dripping condensate on penthouse floor. (J. Graft report 8/4/87)
 - d. Belt needs to be tightened. (J. Graft report 8/4/87)
 - e. Fan needs belt guard. (J. Graft report 8/4/87)
 - f. Return air ductwork is braced against and is settling on chilled water coil section of fan. (J. Graft report 8/4/87)
 - g. No vibration isolation on discharge section. (J. Graft report 8/4/87)
 - h. Condensate return line on preheat coil does not have sufficient drop going to the F&T trap. Water may back-up in coil and freeze. (J. Graft report 8/4/87)
9. RF-2 Control air copper tubing connected across vibration isolation joint. (J. Graft report 8/4/87)
10. RF-2 Belts are loose and not appear to be a matched set. (J. Graft report 8/4/87)
11. Pipe clamp on roof leader at pipe chase has been removed. (J. Graft report 8/4/87)
12. Valve on Glycol expansion tank non-rising stem. (J. Graft report 8/4/87)
13. Drain line from BF and Make-up relief not run to floor drain. (J. Graft report 8/4/87)
14. EF-9 air line across flex joint. (J. Graft report 8/4/87)
15. Chilled water lines are not supported at top of pipe chase. (J. Graft report 8/4/87)
16. EF-10 air line across flex joint. (J. Graft report 8/4/87)

17. EF-10 Fan static pressure appears to be low. (J. Graft report 8/4/87)
18. EF-4 Inlet ductwork resting against fan housing -- needs additional support. (J. Graft report 8/4/87)
19. EF-4 discharge duct leaking. (J. Graft report 8/4/87)
20. EF-3 Electrical conduit should be flexible connector. (J. Graft report 8/4/87)
21. EF-3 discharge duct leaking. (J. Graft report 8/4/87)
22. Pressure gauge on CWS and CHR on FCU in stairwell has water and rusting gauge glass. (J. Graft report 8/4/87)
23. Empty 50 gal drums left in Penthouse. (Walk through 2/19/88)

BUILDING "A" ROOF

1. Flashing joints solder joints loose. (J. Graft report 8/4/87)
2. Construction trash on roof. (J. Graft report 8/4/87)
3. Vertical flashing not caulked and is cracking near north penthouse on east side and a number of other locations. (J. Graft report 8/4/87)
4. Perchloric Acid Exhaust fan on roof base cover over roof curb cracked on two corners and cover appears to be 1/2 inch short. (J. Graft report 8/4/87)
5. Walk area outside of both doors from penthouse to main roof shows deep indentation and ponding from point loading causing water to pond. (J. Graft report 8/4/87)

BUILDING "B" FIRST FLOOR

Mechanical Room 141, lower level

1. Clean-up on mechanical rooms and equipment incomplete. (K. Wiley report 9/30/87) (J. Graft report 8/4/87)
2. A loud vibration in the water line in Building B is apparently caused by a backflow preventer in Room 141. (J. Hall report 1/29/88)
3. Room 141 Building B door lock broken. (J. Hall report 1/29/88)
4. Steam generator not working. (K. Wiley report 10/30/87)

5. Water softener for steam to steam converter - brine tank loaded with common rock salt which will coat softener resin beads - need cleaned peletized salt. (J. Graft report 8/4/87)
6. Unit heater hot water line not completely insulated. (J. Graft report 8/4/87)
7. Drain line trap from second floor has angle point support on split clamp. (J. Graft report 8/4/87)
8. Backflow preventer for softener too high for testing. (J. Graft report 8/4/87)
9. Backflow preventer leaking. (J. Graft report 8/4/87)
10. Smoke detector cover plate loose. (Walk through 2/19/88)
11. Need patching around pipe sleeves in block. (J. Graft report 8/4/87)
12. Spiral stair makes it difficult to move equipment to second floor
13. Pipe insulation not painted. (Walk through 2/19/88)

Room 143

1. Sprinkler head too far up in ceiling, drywall busted around head. (K. Wiley report 4/13/87)

Room 146 Cage Wash Room

1. Sprinkler head are not 195 deg F. type. (J. Graft report 8/4/87)
2. Need steam gauges on line to cage washer. (J. Graft report 8/4/87)
3. Need additional insulation on piping to steam wash system. (J. Graft report 8/4/87)

Room 147

1. Bumper or wood rails did not fill hole. (Ray Leach report 2/18/88)

Room 149

1. Bumper or wood rails did not fill hole. (Ray Leach report 2/18/88)

Room 155 Small Animal Rooms

1. The hose adapter aerators on lab sinks are defective. (K. Wiley report 10/30/87)
2. Building B, all small animal rooms, the hose adapter aerators are defective (vacuum breakers leaking). (K. Wiley report 10/30/87)

Room 158

1. 1/11/88 - Hot and cold water lines froze and burst in Room 158. Several problems related to and resulting from this incident have been resolved by the contractor. (K. Wiley report 1/26/87) Pipes have been repaired, however insulation needs to be replaced (walk through 2/16/88)

Room 159 Horse stalls

1. Around windows in doors were not painted. (Ray Leach report 2/16/88)

General Building B

1. Sprinkler lines not painted and some were not painted red. (K. Wiley report 11/30/87)
2. SS capping not soldered at one corner above loading dock. (J. Graft report 8/4/87)
3. Lower SS flashing joint have come unsoldered. (J. Graft report 8/4/87)
4. Receptacle between sinks does not have ground fault breaker. (J. Graft report 8/4/87)
5. Shower stall rod missing screw - rod loose. (J. Graft report 8/4/87)
6. Lock set loose in corridor door. (Walk through 2/19/88)

BUILDING "B" SECOND FLOOR MECHANICAL ROOM

1. Building B, room 153, fan EF-6, fan unit swinging loose from ceiling. (K. Wiley report 5/15/87)
2. Building B, preheat control on AHU #2 has no limits causing overheating of small animal section. (K. Wiley report 10/30/87) Control was added but still needs a cover over it. (J. Hall report 2/18/88)

3. Building B, 2nd floor, trim left off of breaker panel in motor control center also section cover on same equipment. (K. Wiley report 11/30/87)

4. Building B, needs sealing around duct under AHU #2 at opening through the floor, still leaks water through to room below. (K. Wiley report 11/30/87)

5. Sensor for Building B large animal section is to be relocated to the exhaust air by Barber-Colman per Ansel Davis instruction. (J. Hall report 1/29/88)

6. The refrigerated air dryer operating gauge shows abnormal, indication shows low refrigerant and/or low suction. (K. Wiley report 9/30/87) (J. Graft report 8/4/87)

7. Need vibration joint on dryer discharge line. (J. Graft report 8/4/87)

8. Butterfly valve on CMS main cannot be opened 100%. Handle is hitting CHR elbow. (J. Graft report 8/4/87)

9. AHU #2 vibrating excessively. (J. Graft report 8/4/87)

10. No fire alarm pull station in Mechanical room. (J. Graft report 8/4/87)

11. Leslie GPR pilot feedback line too short, min. 1 ft. (J. Graft report 8/4/87)

12. Piping for differential pressure readings for gauge and FMS not correct. FMS will not read continuously. (J. Graft report 8/4/87)

13. AHU Hot water coil not completely insulation. (J. Graft report 8/4/87)

14. Exhaust fan for cage washer needs OSHA belt guard. (J. Graft report 8/4/87)

15. Roof off of Penthouse ballast does not fully cover membrane. (J. Graft report 8/4/87)

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16. No light switch at top of stairs in mechanical room. (Walk through 2/19/88)

17. Hand railing has wood spacer add because rail is too short. Wood is unpainted and rough. (Walk through 2/19/88)

18. Air dryer lines appear to be too small. Air compressor is sized for 50 scfm, dryer sized for 35 scfm. (Walk through 2/19/88)

BUILDING "C"

1. Building C, sprinkler lines not painted. (K. Wiley report 11/30/87)
2. Lights not working. (J. Graft report 8/4/87)

BUILDING EXTERIOR

1. Retention Pond is open to the public and could be hazardous. (K. Wiley report 4/13/87) (K. Wiley report 6/10/87)
2. Building A, outside light at east lobby entrance stays on all of the time. Not switched with other outside lighting. (K. Wiley report 5/15/87) (K. Wiley report 6/10/87) Installed as shown in project.
3. Fountain spray pump is not staying in proper location. (K. Wiley report 7/31/87)
4. Water meter pit is full of water. (K. Wiley report 7/31/87)
5. Retention Basin, very dirty has debris in entire basin, pumps are not operating and contractor is to replace service cable and repair pumps and lights. (K. Wiley report 9/14/87)
6. Retention basin pumps still do not work, breakers are tripping out. (K. Wiley report 9/30/87)
7. Exterior light on left over North entrance, lens is loose and bugs have filled inside of fixture. (walk through 2/17/88)
8. Walkway between buildings shows evidence of leaking through roof to bottom side of walkway. (J. Graft report 8/4/87) (Walk through 2/19/88) - MDRK
9. At Main entrance, concrete to left of main entrance has void. (J. Graft report 8/4/87)
10. Texas shrubs need to be replaced. (J. Graft report 8/4/87) - DEL
11. Utility marker by east front side entrance is screwed to concrete not set in concrete. (by 106) (J. Graft report 8/4/87)

GENERAL BUILDING

1. There is no roof access to the penthouses on building A or B. Walkway as well as ladders, are also needed across the roof. (K. Wiley report 4/13/87) (K. Wiley report 6/10/87)

MOCK

2. Fire stopping on all walls to the overhead slab and around pipe sleeves is incomplete, especially around the restroom areas. (K. Wiley report 4/13/87) Several pipe sleeves through the floor in Penthouse of Building A north and south also in Building B are not fire-stopped. (K. Wiley report 11/30/87)

3. Elevator #1's pit in basement mechanical room stays wet. (K. Wiley report 4/13/87)

WILEY

4. Open space in the floor not protected (pipe chases) both ends of building. (K. Wiley report 4/13/87)

5. Hand rails are loose or incomplete or in some cases, not welded securely in the catwalk areas. (K. Wiley report 4/13/87) (K. Wiley report 5/11/87) (K. Wiley report 6/10/87)

6. Building A, all stairways, anti-slip edge nosing, damaged in several places. (K. Wiley report 5/11/87) (K. Wiley report 6/10/87)

7. Elevator #2 for south section of building very dirty inside of control panel. Has been left open and uncovered, solid-state electronic equipment. (K. Wiley report 5/11/87) (K. Wiley report 5/15/87) Wall pad cut has cigarette burns and very dirty. (K. Wiley report 6/10/87)

WILEY

8. Several wet spots on ceiling tile on all floors. (K. Wiley report 9/14/87)

9. Mechanical room and penthouse floors need to be cleaned and resealed again before occupancy. (K. Wiley report 9/14/87)

10. Passenger elevator making noise in travel. (K. Wiley report 9/14/87)

WILEY

11. Rooms in mechanical area basement not numbered and in various locations in building. (K. Wiley report 9/14/87)

12. Throughout the building and many of the outside doors the hardware is loose and several door knobs are falling off. Also provide the maintenance people with the tool supplies with the hardware to tighten properly. (K. Wiley report 9/14/87) See room 149 Building "B". Building A & B, most doors do not close and latch properly. Doors and hardware need to be checked at all entrances. (K. Wiley report 10/30/87) Building manager Ray Leach reports no action on several interior doors with lock-set problems. (K. Wiley report 1/19/88)

13. Lighting inside some of the frame hoods, is not complete. (K. Wiley report 1/19/88)

14. No access to refrigeration units for the walk-in boxes etc. Most can only be reached by removing light fixtures or crawling above ceilings. (K. Wiley report 4/13/87) (K. Wiley report 6/10/87)

15. Exterior windows, some have wire and some do not, conference room. (J. Graft report 8/4/87)

STRUCTURAL WATER LEAKS

1. Basement mechanical room, ground water leaking through wall around steam and chilled water lines, leaking into electrical junction boxes. (K. Wiley report 1/19/88)

2. Stairway #3, east side of building, water leaking inside from area at first floor entrance to stair. (K. Wiley report 1/19/88)

3. Roof leak around cage washer stack Building B (J. Hall report 1/29/88)

4. 3rd floor balcony doors, rain blows inside, carpet gets wet. (K. Wiley report 10/30/87)

5. Building B mech. room, roof leak in Building B Mechanical Room around duct through ceiling at the double doors to the roof. (K. Wiley report 4/13/87)

MARK

6. Mechanical room 241 Building B south wall at exterior door roof leaking. (J. Hall leak report 2/2/88)

7. Mechanical room 241 Building B south wall near floor. (J. Hall leak report 2/2/88)

8. Mechanical room 241 Building B south wall intake louver water leaking around louver. (J. Hall leak report 2/2/88)

9. Building A South Penthouse leak around door to roof. (J. Hall leak report 2/2/88)

10. Building A third floor door to balcony leak around door to balcony. Water is running down glass to door then under door onto the carpet. (J. Hall leak report 2/2/88)

11. Stair #3 east side water standing on landing going down to Mechanical room. (J. Hall leak report 2/2/88)

12. Walkway between buildings has leak in roof running through to under side of walkway. (J. Graft report 8/4/87) (Walk through 2/19/88)

MARK

GENERAL MECHANICAL/ELECTRICAL

NO OPERATION AND MAINTENANCE MANUAL OR SHOP DRAWINGS

1. No stop valves are being installed in the laboratories for easy access to service air, water, gas, vacuum etc. (not in specifications). (K. Wiley report 4/13/87) (K. Wiley report 6/10/87)
2. Terminal variable volume units do not have access doors to clean the coils or access panels in the ceiling. (K. Wiley report 4/13/87) (K. Wiley report 6/10/87)
3. The catwalk areas are blocked badly in several areas making passage almost impossible. Especially where there is a large duct blocking the length of the walkway. (K. Wiley report 4/13/87) (K. Wiley report 6/10/87)
4. In catwalk areas where plumbing lines are crossing the catwalks, need access to the catwalk and to prevent damage to the plumbing lines, pipe insulation, etc. (K. Wiley report 4/13/87) (K. Wiley report 6/10/87) Still need platforms over piping on cat-walks entrances on 3rd and 4th levels. (K. Wiley report 9/30/87)
5. The north and south mechanical shafts have no gratings or barriers in many locations. Hazardous area. (K. Wiley report 4/13/87) (K. Wiley report 5/11/87) (K. Wiley report 6/10/87)
6. Access door latches on air handling units improperly secured and adjusted. (K. Wiley report 5/11/87) (K. Wiley report 6/10/87)
7. De-ionized water valves are not self-closing type. (K. Wiley report 5/15/87)
8. Building A, switch and receptacle plates do not cover holes completely in many locations. (K. Wiley report 5/15/87)
9. Several water leaks on reheat flow control valves in several areas. (K. Wiley report 7/31/87)
10. Switches for unit heaters in mechanical areas are mounted too high to reach, in building B not accessible. (K. Wiley report 9/14/87)
11. All mechanical equipment in building needs to be cleaned. (K. Wiley report 9/14/87)
12. All equipment needs to be numbered and identified properly such as pumps, controls, etc... (K. Wiley report 9/14/87)
13. Valve charts in all locations are not under glass and are improperly installed and located. Valve charts not suitable, not framed, they are installed in janitors closet etc. with masking tape. (K. Wiley report 9/14/87)

14. Motors and fans in various locations need grease fittings. Advise as to responsible party. (K. Wiley report 9/14/87)
15. At present time the orientation for various equipment has not happened. (K. Wiley report 9/14/87) Need control orientation asap
16. Several "Fume Hoods" still have light problems. (K. Wiley report 9/30/87)
17. Sprinkler test lines are not piped to drain on the north and south stairs. A garden hose must be used to test these systems. (K. Wiley report 9/30/87)
18. Cover on J-Boxes are left off in a number of location. (Walk through 2/18/88)
19. No Emergency cut off on gas to lab areas. (Walk through 2/18/88)
20. Pipe penetrations of walls are not all fire stopped. Some penetrations are sleeved and some are not. Some pipe sleeves penetrates in walls and floors do not have pipes in them. (J. Graft report 8/4/87) (Walk through 2/18/88)
21. Elbows on all piping are not properly insulated. (Walk through 2/19/88)
22. All equipment needs cleaning. (Walk through 2/19/88)

CONTROL SYSTEM

1. At various locations some of the VAV boxes are installed in a (spaghetti junction) way of tubing, Devices sensors etc. I am told that there are no specific drawings to the confusion and that the control people will explain at a later date. Some 20 of these are in the building. (K. Wiley report 9/14/87)
2. Control work is incomplete, need orientation on controls, water treatment, mechanical equipment, pool pumps incomplete. (K. Wiley report 9/30/87)
3. Time clock for auditorium unit not indicating the correct time. (walk through 2/16/88)
4. Outdoor air Temperature gauge on MTHW control panel not reading correct temperature. (Walk through 2/18/88)

FIRE ALARM SYSTEM

1. The spec page 364, item 2.01A specifies a Series 2001 system be installed. What was actually installed is a Series 2120 multiplexed system. If we are going to accept a multiplexed system we need the necessary documentation and training to maintain and repair it. At present this is the first system like this installed for the Lexington Campus. (R. McClure report 9/18/87)
2. The annunciator is exposed to water and is not a sealed type enclosure. This unit already is degraded due to water running through it. This enclosure contains electronic circuit boards to decode information for the annunciator display and must be a watertight enclosure. (R. McClure report 9/18/87)
3. The annunciator contains a circuit board which will not operate below 32 oF. To correct for this, Simplex proposed to put a 50 watt heating element and a thermostat in the panel. I would prefer the electronics be moved inside the building, this is an unnecessary waste of energy. (R. McClure report 9/18/87)
4. The water flow switches could not be tested because when the inspector valves on the sprinkler system opened, the water got stopped before it got to the drain. Does this system have some kind of solenoids in the inspectors lines to allow the system to automatically test for sprinkler water flow? Has the Sprinkler System been certified? (R. McClure report 9/18/87)
5. The system has already been hit by lightning, what is Simplex going to do to prevent this in the future. The specs were for another type of system so they need to tell us what type of protection this system has and give us written confirmation that the system is internally or externally protected against transients. (R. McClure report 9/18/87)
6. Simplex needs to provide directory of system point locations. Not in specs. (K. Wiley report 9/30/87)
7. Annunciator on column outside of building was indicating two zones in alarm. Mechanical room and a spare non-used zone. (walk through 2/17/88)
8. Panel outside annunciator panel showing "temperature alarm". (K. Wiley report 9/14/87)