THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Charles A. McCallum Basic Health Science Building
Phase 1 Renovations

1918 University Blvd
Birmingham, AL 35233

Client: Board of Trustees of the University of Alabama for the University of Alabama at Birmingham
UAB Project Number : 160117-AP
BC Number : 2017500
HDR Project Number : 10062179

2018-05-18

CONFORMANCE SET INCLUDING BASE BID AND ADDENDUMS #1 - #6



SITE MAP

DRAWING INDEX

GENERAL	
G-000	COVER SHEET
G-101	CODE AND LIFE SAFETY INFORMATION

STRUCTURAL	
S-501	DETAILS - EXTERIOR

ARCHITECTURAL	
A-001	SYMBOLS, & GENERAL NOTES
AE-108	EXISTING PLAN - EIGHTH FLOOR
AE-109	EXISTING PLAN - NINTH FLOOR
AD-108	DEMOLITION PLAN - EIGHTH FLOOR
AD-109	DEMOLITION PLAN - NINTH FLOOR
AD-110	DEMOLITION PLAN - LOW ROOF
AD-111	DEMOLITION PLAN - HIGH ROOF
A-108	FLOOR PLAN - EIGHTH FLOOR
A-109	FLOOR PLAN - NINTH FLOOR
A-110	LOW ROOF PLAN
A-111	HIGH ROOF PLAN
AC-108	REFLECTED CEILING PLAN - EIGHTH FLOOR
AC-109	REFLECTED CEILING PLAN - NINTH FLOOR
AC-201	TYPICAL CEILING DETAILS
A-201	EXTERIOR ELEVATIONS
A-301	WALL SECTIONS
A-411	ENLARGED PLANS AND ELEVATIONS
A-412	ENLARGED PLANS AND ELEVATIONS
A-413	ENLARGED PLAN AND INTERIOR ELEVATIONS
A-501	DETAILS - EXTERIOR
A-502	DETAILS - EXTERIOR
A-511	DETAILS - ROOF
A-512	DETAILS - ROOF
A-601	DOOR SCHEDULES, ELEVATIONS AND DETAILS
A-611	INTERIOR WINDOWS AND STAIR DETAILS
A-612	MILLWORK DETAILS
A-720	STANDARD PARTITION TYPES
A-721	PARTITION HEAD DETAILS
A-722	PARTITION FRAMING DETAILS
A-730	TYPICAL MOUNTING HEIGHTS AND INTERIOR DETAILS
AQ-108A	8TH FLOOR ENLARGED LABORATORY PLAN - PART A
AQ-108B	8TH FLOOR ENLARGED LABORATORY PLAN - PART B
AQ-109A	9TH FLOOR ENLARGED LABORATORY PLAN - PART A
AQ-109B	9TH FLOOR ENLARGED LABORATORY PLAN - PART B
AQ-111	CASEWORK ADD ALTERNATE
AQ-501	LABORATORY CASEWORK LEGEND
AQ-502	LABORATORY CASEWORK DETAILS

INTERIORS	
I-001	INTERIOR NOTES AND FINISH LEGEND
I-108	FINISH FLOOR PLAN - EIGHTH FLOOR
I-109	FINISH FLOOR PLAN - NINTH FLOOR
IF-108	INTERIOR FURNITURE PLAN - EIGHTH FLOOR
IF-109	INTERIOR FURNITURE PLAN - NINTH FLOOR

FIRE PROTECTION	
FP-108	8TH FLOOR FIRE POTECTION PLAN
FP-109	9TH FLOOR FIRE PROTECTION PLAN
FP-101	GROUND FLOOR FIRE PROTECTION PLAN
FPD-101	GROUND FLOOR DEMOLITION FIRE PROTECTION PLAN
FPD-108	8TH FLOOR FIRE PROTECTION DEMOLITION PLAN
FPD-109	9TH FLOOR FIRE PROTECTION DEMOLITION PLAN

PLUMBING	
P-001	PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS
PPD-001	EXISTING LEGENDS, GENERAL NOTES, ABBREVIATIONS & DETAILS
PPD-101	GROUND FLOOR DEMOLITION PLUMBING PLAN
PPD-108	8TH FLOOR PLUMBING DEMOLITION PLAN
PPD-109	9TH FLOOR PLUMBING DEMOLITION PLAN
PPAWD-108	8TH FLOOR PLUMBING ACID WASTE DEMOLITION PLAN
PPAWD-109	9TH FLOOR PLUMBING ACID WASTE DEMOLITION PLAN
PPD-110	PLUMBING ROOF DRAIN PIPING DEMOLITION PLAN
PP-101	GROUND FLOOR PLUMBING PLAN
PP-108	8TH FLOOR PLUMBING PLAN
PP-109	9TH FLOOR PLUMBING PLAN
PP-111	ROOF PLUMBING PLAN
PPG-108	8TH FLOOR LAB GAS PLAN
PPG-109	9TH FLOOR LAB GAS PLAN
PPG-101	GROUND FLOOR LAB GAS PLAN
P-401	ENLARGED SCALE PLUMBING PLANS
P-501	PLUMBING DETAILS
P-601	PLUMBING RISER DIAGRAM
P-701	PLUMBING SCHEDULES

MECHANICAL	
M-001	MECHANICAL SYMBOLS AND ABBREVIATIONS
MHD-101-1	GROUND FLOOR DEMO HVAC PLAN - PHASE 1
MHD-101-2	GROUND FLOOR DEMOLITION HVAC PLAN - PHASE 2
MHD-101-3	GROUND FLOOR DEMO HVAC PLAN - PHASE 3
MHD-101-4	GROUND FLOOR DEMO HVAC PLAN - PHASE 4
MHD-108	8TH FLOOR DEMOLITION HVAC PLAN - PHASES 1 THRU 4
MHD-109	9TH FLOOR DEMOLITION HVAC PLAN - PHASES 1 THRU 4
MHD-111	ROOF DEMOLITION HVAC PLAN
MH-101-1	GROUND FLOOR HVAC PLAN - PHASE 1
MH-101-2	GROUND FLOOR HVAC PLAN - PHASE 2
MH-101-3	GROUND FLOOR HVAC PLAN - PHASE 3
MH-101-4	GROUND FLOOR HVAC PLAN - PHASE 4
MH-108	8TH FLOOR HVAC PLAN - PHASES 1 THRU 4
MH-109	9TH FLOOR HVAC PLAN - PHASES 1 THRU 4
MH-111	ROOF HVAC PLAN
MPD-101	GROUND FLOOR DEMOLITION MECHANICAL PIPING PLAN
MPD-108	8TH FLOOR DEMOLITION MECHANICAL PIPING PLAN
MPD-109	9TH FLOOR DEMOLITION MECHANICAL PIPING PLAN
MPD-111	ROOF DEMOLITION MECHANICAL PIPING PLAN
MP-101	GROUND FLOOR MECHANICAL PIPING PLAN
MP-108	8TH FLOOR MECHANICAL PIPING PLAN
MP-109	9TH FLOOR MECHANICAL PIPING PLAN
MP-111	ROOF MECHANICAL PIPING PLAN
M-501	MECHANICAL DETAILS
M-502	MECHANICAL DETAILS
M-503	MECHANICAL DETAILS
M-601	HEATING HOT WATER FLOW DIAGRAM
M-602	CHILLED WATER FLOW DIAGRAM
M-603	8TH FLOOR AIRFLOW DIAGRAM
M-604	9TH FLOOR AIR BALANCE DIAGRAM
M-701	MECHANICAL SCHEDULES
M-702	MECHANICAL SCHEDULES
M-801	BUILDING AUTOMATION SYSTEM (BAS) SYMBOLS AND ABBREVIATIONS
M-802	BAS-SYSTEM ARCHITECTURE DIAGRAM
M-803	BAS-AIRFLOW DIAGRAMS
M-804	BAS-MISCELLANEOUS CONTROLS DIAGRAMS
M-805	BAS-ROOM CONTROL DIAGRAMS

ELECTRICAL	
E-001	Legend and Notes
E-002	Power Risers - Existing & New Work
E-003	Power Risers - Emergency
E-004	Power Risers - 8th and 9th Floor
E-005	Panel Schedules
E-006	Panel Schedules
E-007	Equipment Schedules
E-008	Electrical Details
E-009	OIT Details
E-010	OIT Details
E-011	Lighting Schedule and Details
E-012	Fire Alarm Riser and Details
E-013	Enlarged Floor Plans
E-014	Security Details
E-100a	8th Floor Plan - Demolition
E-100b	9th Floor Plan - Demolition
E-101	Ground Floor Plan - Electrical
E-106	Eighth Floor Electrical Reference & Lighting Control
E-107	Ninth Floor Electrical Reference & Lighting Control
E-108	Eighth Floor Plan - Lighting
E-109	Ninth Floor Plan - Lighting
E-208	Eighth Floor Plan - Power and IT
E-209	Ninth Floor Plan - Power and IT
E-210	Roof Plan - Electrical
E-308	Eighth Floor Plan - HVAC and Fire Alarm
E-309	Ninth Floor Plan - HVAC and Fire Alarm
E-408	Eighth Floor Plan - Security
E-409	Ninth Floor Plan - Security

ISSUED FOR CONSTRUCTION

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
COVER SHEET

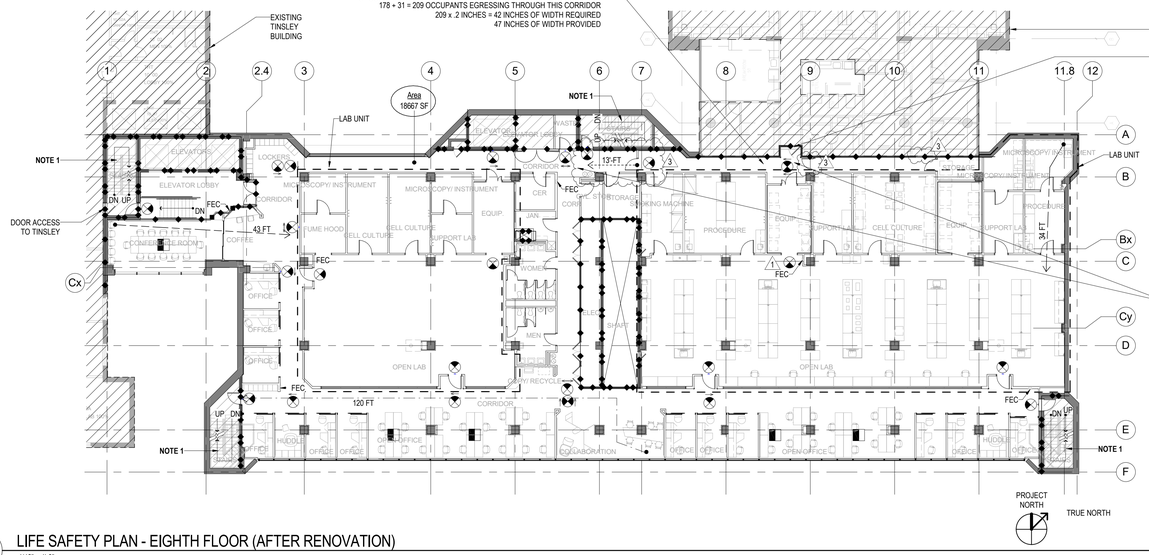
Scale

Sheet Number
G-000

Project Status
CONSTRUCTION DOCUMENTS

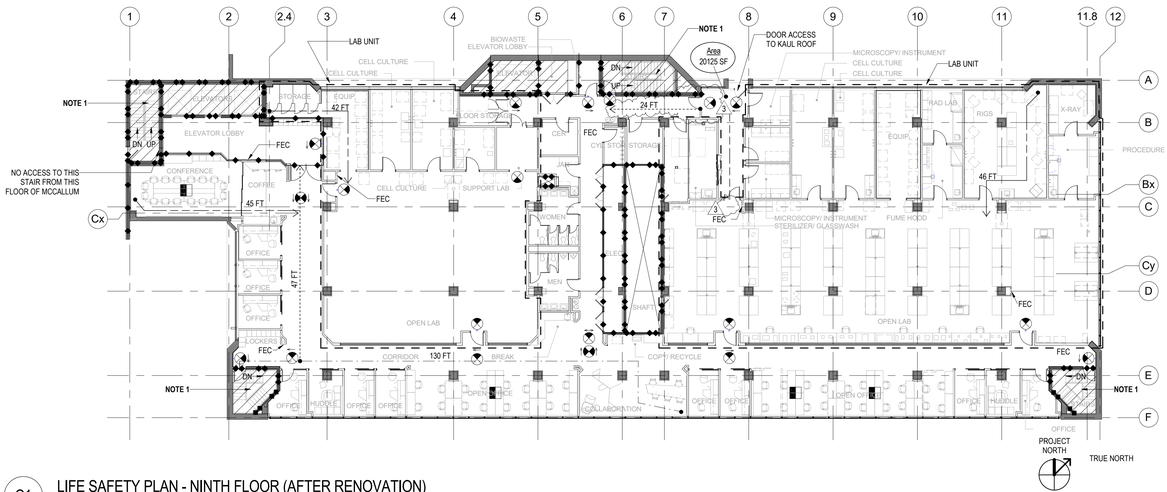
5/17/2018 4:17:21 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_JCAMPISI.rvt



D1 LIFE SAFETY PLAN - EIGHTH FLOOR (AFTER RENOVATION)

1/16" = 1'-0"



C1 LIFE SAFETY PLAN - NINTH FLOOR (AFTER RENOVATION)

1/16" = 1'-0"

LIFE SAFETY LEGEND

- 2 HR FIRE RATED PARTITION
- 1 HR FIRE RATED PARTITION
- MAX TRAVEL DISTANCE (300 FEET MAX)
- COMMON PATH OF TRAVEL (100 FEET MAX)
- DEAD-END CORRIDOR (50 FEET MAX)
- EXIT SIGNS
- FEC — FIRE EXTINGUISHER CABINET
- NOT IN CONTRACT
- LAB UNIT

SHEET SPECIFIC NOTES

NOTE 1 - LUMINOUS EGRESS PATH MARKINGS AS REQUIRED BY IBC SECTION 1024 WILL BE INSTALLED BY THE OWNER UNDER SEPARATE CONTRACT PRIOR TO THE COMPLETION OF THIS PROJECT.

PROJECT INFORMATION

NAME OF COMMERCIAL TENANT:
THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

PROJECT ADDRESS:
1900 UNIVERSITY BOULEVARD, BIRMINGHAM, AL 35233

SCOPE OF WORK NARRATIVE:
THE SCOPE OF WORK FOR THIS PROJECT INCLUDES THE RENOVATION OF AN EXISTING BUILDING. TWO FLOORS OF CURRENT LABORATORIES WILL BE RENOVATED AND WILL REMAIN LABORATORIES AFTER THE RENOVATION. EXISTING EXTERIOR WINDOWS ON THESE TWO FLOORS WILL BE REPLACED AS WELL AS THE ROOFING MEMBRANE. MECHANICAL, ELECTRICAL AND PLUMBING INFRASTRUCTURE WILL ALSO BE REPLACED.

APPLICABLE CODES, REGULATIONS AND GUIDELINES

A. APPLICABLE CODES:

THE 2015 TECHNICAL CODE OF THE CITY OF BIRMINGHAM HAS ADOPTED:
INTERNATIONAL BUILDING CODE (IBC), 2015
INTERNATIONAL EXISTING BUILDING CODE (IEBC), 2015
INTERNATIONAL PLUMBING CODE (IPC), 2015
INTERNATIONAL MECHANICAL CODE (IMC), 2015
INTERNATIONAL FUEL GAS CODE (IFGC), 2015
INTERNATIONAL FIRE CODE (IFC), 2015
NATIONAL ELECTRICAL CODE (NEC), 2014
NATIONAL FIRE PROTECTION ASSOCIATION (NFPA) 101 (LIFE SAFETY CODE), 2015
ANSI/ASHRAE/IESNA STANDARD 90.1-2007 ENERGY STANDARD FOR BUILDINGS EXCEPT LOW-RISE RESIDENTIAL

ACCESSIBILITY:
- U.S. DEPARTMENT OF JUSTICE A.D.A. STANDARDS FOR ACCESSIBLE DESIGN (ADA) - 2010 EDITION

NFPA CODES:
NFPA 10 - STANDARD FOR PORTABLE FIRE EXTINGUISHERS
NFPA 13 - STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS
NFPA 20 - STANDARD FOR THE INSTALLATION OF STATIONARY PUMPS FOR FIRE PROTECTION
NFPA 45 - STANDARD ON FIRE PROTECTION FOR LABORATORIES USING CHEMICALS
NFPA 55 - COMPRESSED GASES AND CRYOGENIC FLUIDS CODE
NFPA 72 - NATIONAL FIRE ALARM AND SIGNALING CODE
NFPA 90A - STANDARD FOR THE INSTALLATION OF AIR-CONDITIONING AND VENTILATING SYSTEMS
NFPA 90B - STANDARD FOR THE INSTALLATION OF WARM AIR HEATING AND AIR-CONDITIONING SYSTEMS
NFPA 110 - STANDARD FOR EMERGENCY AND STANDBY POWER SYSTEMS

B. APPLICABLE STANDARDS:

AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI):
ANSI Z9.5 AMERICAN NATIONAL STANDARD FOR LABORATORY VENTILATION
ANSI Z535.1 SAFETY COLOR CODE
ANSI Z535.2 ENVIRONMENTAL AND FACILITY SAFETY SIGNS
ANSI Z535.3 CRITERIA FOR SAFETY SYMBOLS
ANSI Z535.4 PRODUCT SAFETY SIGNS AND LABELS
ANSI Z358.1 STANDARD FOR EMERGENCY EYEWASHES AND SHOWER EQUIPMENT.

AMERICAN SOCIETY OF HEATING, REFRIGERATING AND AIR CONDITIONING ENGINEERS (ASHRAE):
ASHRAE STANDARD 15 SAFETY STANDARD FOR REFRIGERATION SYSTEMS
ASHRAE STANDARD 62.1 VENTILATION FOR ACCEPTABLE INDOOR AIR QUALITY
ASHRAE STANDARD 90.1 ENERGY STANDARD FOR BUILDING EXCEPT LOW-RISE RESIDENTIAL BUILDINGS
ASHRAE STANDARD 110 METHOD OF TESTING PERFORMANCE OF LABORATORY FUME HOODS

UNDERWRITERS LABORATORIES, INC. (UL): ALL MATERIALS AND EQUIPMENT SHALL BE LISTED, LABELED OR CERTIFIED BY UNDERWRITERS LABORATORIES, INC., WHERE SUCH STANDARDS HAVE BEEN ESTABLISHED.
AMERICAN SOCIETY OF CIVIL ENGINEERS (ASCE) - REFER TO THE STRUCTURAL NARRATIVE FOR ADDITIONAL INFORMATION.
AMERICAN CONCRETE INSTITUTE (ACI)
AMERICAN INSTITUTE OF STEEL CONSTRUCTION (AISC)
ASSOCIATED AIR BALANCE COUNCIL (AABC)
SHEET METAL AND AIR CONDITIONING CONTRACTORS NATIONAL ASSOCIATION (SMACNA).

CODE SUMMARY

A. **EXISTING BUILDINGS INFORMATION:**

MCCALLUM (THIS PROJECT):
OCCUPANCY CLASSIFICATION ------ UNKNOWN (ASSUMED TO BE BUSINESS)
CONSTRUCTION TYPE ---------- TYPE II (SBC), FULLY SPRINKLERED

KAUL (ADJACENT BUILDING):
OCCUPANCY CLASSIFICATION ------ GROUP B, BUSINESS (1994 SBC)
CONSTRUCTION TYPE ---------- TYPE II (1994 SBC), FULLY SPRINKLERED

TINSLEY (ADJACENT BUILDING):
OCCUPANCY CLASSIFICATION ------ UNKNOWN (ASSUMED TO BE BUSINESS)
CONSTRUCTION TYPE ---------- UNKNOWN (ASSUMED TO BE TYPE II)

*PER IEBC 2015, THIS RENOVATION PROJECT IS CLASSIFIED AS LEVEL 2 ALTERATION PER CHAPTER 5 AND CHAPTER 8.
- TOTAL AREA OF EXISTING BUILDING: 164,939 SF
- TOTAL AREA OF RENOVATION: 38,792 SF

B. **OCCUPANCY CLASSIFICATION:**

GROUP B, BUSINESS, PER IBC SECTION 304
THIS RENOVATION PROJECT DOES NOT CHANGE THE USE OR OCCUPANCY OF THE EXISTING BUILDING

C. **TYPE OF CONSTRUCTION:** (3)

TYPE II (SBC) EQUATES TO TYPE I-B (2015 IBC)
THIS RENOVATION PROJECT DOES NOT CHANGE THE TYPE OF CONSTRUCTION OF THE EXISTING FACILITY. THIS PROJECT DOES NOT ALTER EXISTING BUILDING ELEMENTS, AND THEIR FIRE-RESISTANCE RATINGS, INCLUDED IN TABLE 601 (IBC). NEW NON-LOAD BEARING WALLS PROVIDED AS PART OF THIS PROJECT WILL CONSIST OF NON-COMBUSTIBLE CONSTRUCTION MATERIALS.

THE EXISTING BUILDING IS FULLY SPRINKLERED. THE RENOVATED FLOORS OF THIS PROJECT WILL BE EQUIPPED WITH NEW AUTOMATIC SPRINKLERS.

D. **ALLOWABLE BUILDING HEIGHTS AND AREAS (IBC CHAPTER 5, TABLE 503):**

THIS RENOVATION PROJECT DOES NOT CHANGE THE FLOOR AREAS, HEIGHT NOR NUMBER OF STORIES OF THE EXISTING BUILDING.
THE EXISTING MCCALLUM BUILDING IS CONSIDERED A HIGH-RISE PER 2015 IBC SECTION 202

E. **LABORATORY DESIGN AND CODES:**

LABORATORIES THAT USE CHEMICALS SHALL COMPLY WITH NFPA 45, STANDARD ON FIRE PROTECTION FOR LABORATORIES USING CHEMICALS [SECTION 8.7.4.1, NFPA 101]

- LABORATORY UNIT FIRE HAZARD CLASSIFICATION:
  CLASS D - LABORATORY UNITS ARE CLASSIFIED, BASED ON THE AMOUNT OF FLAMMABLE AND COMBUSTIBLE LIQUIDS IN USE WITHIN THE UNIT (NFPA 45, SECTION 4.1.1 AND SECTION 4.2.1.1).
  - CLASS D LABORATORIES SHALL BE CLASSIFIED AS BUSINESS OCCUPANCIES IN ACCORDANCE WITH NFPA 101, LIFE SAFETY CODE. (NFPA 45, SECTION 5.3.3).
  - NFPA 45, CHAPTER 5 OUTLINES THE REQUIREMENTS FOR DESIGN AND CONSTRUCTION OF LABORATORY UNITS. FIRE SEPARATION REQUIREMENTS FOR SPRINKLERED LABORATORY UNITS ARE PROVIDED IN TABLE 5.1.1 AND SUMMARIZED BELOW:
    CLASS D LABORATORY UNIT:
    - SIZE: CLASS D LABS --> ANY SIZE. NO LIMIT ON PERMITTED STORIES ABOVE GRADE.
    - FIRE SEPARATION --> NOT REQUIRED
- **MAXIMUM ALLOWABLE QUANTITIES:**
  - THE DENSITY AND TOTAL AMOUNT OF FLAMMABLE AND COMBUSTIBLE LIQUIDS IN USE IN LABORATORY WORK AREAS AND LABORATORY UNIT SHALL NOT EXCEED THE QUANTITIES PRESENTED IN TABLE 9.1.1 (2015 NFPA 45) FOR THE RESPECTIVE CLASS OF LABORATORY.
  - THE QUANTITY OF COMPRESSED AND LIQUEFIED GASES IN CLASS D LABORATORY UNITS SHALL BE LIMITED TO 50 PERCENT OF THE AMOUNTS LISTED IN TABLE 6.3.1.1 (2013 NFPA 55), COMPRESSED GASES AND CRYOGENIC FLUIDS CODE. (NFPA 45, SECTION 10.1.6.7 (2015 NFPA 45)).
  - THE PERCENTAGE OF MAXIMUM ALLOWABLE QUANTITIES OF HAZARDOUS MATERIALS PER CONTROL AREA PERMITTED AT EACH FLOOR LEVEL WITHIN A BUILDING SHALL BE IN ACCORDANCE WITH IBC, TABLE 414.2.2.
- **CONTROL AREAS:**
  - THE ENTIRE BUILDING TO BE A SINGLE CONTROL AREA PER NFPA 55.
- **LABORATORY UNITS:**
  - LABORATORY UNITS ARE IDENTIFIED ON LIFE SAFETY PLANS

F. **FIRE RESISTIVE REQUIREMENTS:** (3)

BUILDING ELEMENTS SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THAT SPECIFIED IN IBC TABLE 601 BASED ON THE TYPE OF CONSTRUCTION

- **BUILDING ELEMENTS** FOR TYPE I-B (IBC TABLE 601):
  - STRUCTURAL FRAME --> 2 HR
  - BEARING WALLS - EXTERIOR --> 2 HR
  - BEARING WALLS - INTERIOR --> 2 HR
  - NON-BEARING WALLS/PARTITIONS (INTERIOR) --> 0 HR
  - NON-BEARING WALLS/PARTITIONS (EXTERIOR) --> PER IBC TABLE 602. REFER TO SUMMARY BELOW.
  - FLOOR CONSTRUCTION (SUPPORTING BEAMS AND JOISTS) --> 2 HR
  - ROOF CONSTRUCTION (SUPPORTING BEAMS AND JOISTS) --> 1 HR
- **EXTERIOR WALLS:**
  - EXTERIOR WALLS SHALL HAVE A FIRE-RESISTANCE RATING NOT LESS THAN THAT SPECIFIED IN IBC, TABLE 602 BASED ON SEPARATION DISTANCE FROM EXTERIOR WALLS TO THE CLOSEST INTERIOR LOT LINE (FIRE SEPARATION DISTANCE, DEFINED IN SECTION 202, IBC).
    - THIS PROJECT: TYPE I-B CONSTRUCTION WITH BUSINESS OCCUPANCY
    - ADJACENT BUILDING OCCUPANCIES: BUSINESS OCCUPANCIES (B)
    - ALL EXTERIOR NON-LOAD BEARING WALLS IN THE MCCALLUM BUILDING WITHIN 30 FEET OF ADJACENT BUILDINGS ARE EXISTING TO REMAIN. THE NEW WINDOWS THAT WILL BE ADDED AS PART OF THIS PROJECT ARE MORE THAN 30 FEET AWAY FROM ADJACENT BUILDINGS.

G. **FIRE PROTECTION SYSTEMS:**

GENERAL - ALL LABORATORY UNITS SHALL BE PROVIDED WITH FIRE PROTECTION APPROPRIATE TO THE FIRE HAZARD, AS FOLLOWS :
- PORTABLE FIRE EXTINGUISHERS
- FIRE ALARM SYSTEMS
- EVACUATION AND EMERGENCY PLANS
- AUTOMATIC SPRINKLER SYSTEM

- **AUTOMATIC SPRINKLER SYSTEMS:**
  - AUTOMATIC SPRINKLER SYSTEM SHALL BE IN ACCORDANCE WITH NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS (NFPA 101, SECTION 9.7).
    - THIS PROJECT WILL BE EQUIPPED THROUGHOUT WITH AN AUTOMATIC SPRINKLER SYSTEM IN ACCORDANCE WITH NFPA 101, SECTION 9.7.
  - AUTOMATIC SPRINKLER SYSTEM PROTECTION SHALL BE REQUIRED FOR ALL NEW LABORATORIES IN ACCORDANCE WITH THE FOLLOWING (NFPA 45, SECTION 6.1.1 (2)):
    - AUTOMATIC SPRINKLER SYSTEM PROTECTION FOR CLASS D LABORATORIES SHALL BE IN ACCORDANCE WITH NFPA 13, STANDARD FOR THE INSTALLATION OF SPRINKLER SYSTEMS, FOR ORDINARY HAZARD (GROUP 1) OCCUPANCIES.

    EXEMPT LOCATIONS (IBC SECTION 903.3.1.1.1):
  - AUTOMATIC SPRINKLERS SHALL NOT BE REQUIRED IN THE FOLLOWING ROOMS OR AREAS WHERE SUCH ROOMS OR AREAS ARE PROTECTED WITH AN APPROVED AUTOMATIC FIRE DETECTION SYSTEM IN ACCORDANCE WITH SECTION 907.2 THAT WILL RESPOND TO VISIBLE OR INVISIBLE PARTICLES OF COMBUSTION.
    - ANY ROOM WHERE THE APPLICATION OF WATER, OR FLAME AND WATER, CONSTITUTES A SERIOUS LIFE OR FIRE HAZARD.
    - ANY ROOM OR SPACE WHERE SPRINKLERS ARE CONSIDERED UNDESIRABLE BECAUSE OF THE NATURE OF THE CONTENTS, WHEN APPROVED BY THE FIRE CODE OFFICIAL.

    SPRINKLERS SHALL NOT BE OMITTED FROM ANY ROOM MERELY BECAUSE IT IS DAMP, OF FIRE-RESISTANCE-RATED CONSTRUCTION OR CONTAINS ELECTRICAL EQUIPMENT. (IBC SECTION 903.3.1.1.1)

- **PORTABLE FIRE EXTINGUISHERS (NFPA 10):**

PORTABLE FIRE EXTINGUISHERS SHALL BE SELECTED, INSTALLED AND MAINTAINED IN ACCORDANCE WITH THE INTERNATIONAL FIRE CODE AND NFPA 10.
LIGHT (LOW) HAZARD AND ORDINARY (MODERATE) HAZARD OCCUPANCY (NFPA 10, 5.4)
- FIRE EXTINGUISHERS SHALL BE LOCATED SO THAT THE MAXIMUM TRAVEL DISTANCE SHALL NOT EXCEED 75 FEET (NFPA 10, 6.2.1.6)
- USE UL-RATING: 4A:80BC, 10 LB EXTINGUISHERS IN FIRE EXTINGUISHER CABINETS.

H. **MEANS OF EGRESS** (NFPA CHAPTER 7):

- **NUMBER OF EXITS:**
  - TWO MINIMUM EXITS FROM ANY STORY OR PORTION THEREOF (NFPA 101, 7.4.1.1)
- **CAPACITY OF MEANS OF EGRESS (NFPA 101, SECTION 7.3):**
- **OCCUPANT LOAD:**
  - THE OCCUPANT LOAD IN ANY BUILDING OR PORTION THEREOF SHALL BE NOT LESS THAN THE NUMBER OF PERSONS DETERMINED BY DIVIDING THE FLOOR AREA ASSIGNED TO THAT USE BY THE OCCUPANT LOAD FACTOR FOR THAT USE AS SPECIFIED IN TABLE 7.3.1.2.
    OCCUPANT LOAD FACTORS:

    BUSINESS OCCUPANCY:
    BUSINESS USE ---------- 100 GSF / PERSON
    STORAGE USE ---------- 500 GSF / PERSON
    ASSEMBLY USE ---------- 15 NSF / PERSON
    MEP EQUIPMENT USE ---------- 300 GSF / PERSON

- **BUILDING AREA SUMMARY:**

  GROSS AREAS:
  FLOOR AREA (GROSS FLOOR AREA AS DEFINED IN NFPA 101, 3.3.21.2):
  - EIGHTH FLOOR = 18,667 SF
  - NINTH FLOOR = 20,125 SF
- **OCCUPANT LOAD:**
  - EIGHTH FLOOR (MCCALLUM ONLY - SEE BELOW FOR OTHER COMPONENTS OF EGRESS) = 187 OCCUPANTS
  - NINTH FLOOR = 202 OCCUPANTS
- **MEASUREMENT OF MEANS OF EGRESS:**
  MAXIMUM TRAVEL DISTANCE (NFPA 101, TABLE A.7.6):
  BUSINESS (SPRINKLERED) ---------- 300 FEET (NFPA 101, 38.2.6.3, 7.6)
  MAXIMUM DEAD-END:
  BUSINESS (SPRINKLERED) ---------- 50 FEET (NFPA 101, 38.2.5.2.1)
  COMMON PATH OF TRAVEL:
  BUSINESS (SPRINKLERED) ---------- 100 FEET (NFPA 101, 38.2.5.3.1, 3.3.47)

- **REQUIRED STAIR CONFIGURATION - NFPA 101, TABLE 7.2.2.2.1 (b)**
  - CAPACITY FACTOR - STAIRWAYS: NFPA 101, TABLE 7.3.3.1
    - STAIRWAY EGRESS CAPACITY WIDTH/PERSON: 0.3 INCHES

    - 8TH FLOOR (MCCALLUM) - 18,667 SF
    - 8TH FLOOR (KAUL) - 17,782 SF
    - 18,667 + 17,782 / 100 = 365 OCCUPANTS
    - 365 X .3 INCHES / 4 STAIRS = 28" WIDE STAIRS REQUIRED
    - 9TH FLOOR (MCCALLUM) - 20,125 SF / 100 = 202 OCCUPANTS
    - 202 X .3 INCHES / 3 STAIRS = 21" WIDE STAIRS REQUIRED
    - EXISTING MCCALLUM STAIRS ARE 44" WIDE
    - EXISTING KAUL STAIRS ARE 68" WIDE

- **DOORS - NFPA 101**
  A. MINIMUM CLEAR DOOR WIDTH: 32 INCHES (NFPA 101, 7.2.1.2.3.2)
  [NOTE: 36 INCHES WIDE MIN. DOORS USED]
  A. MAXIMUM LEAF WIDTH: 48 INCHES (IBC 1010.1.1)
  B. MINIMUM EXIT DOOR HEIGHT: 80 INCHES (IBC 1010.1.1)
  C. EGRESS DOOR SWING IN DIRECTION OF TRAVEL FOR OCCUPANT LOADS 50 AND GREATER (IBC 1008.1.2)
  D. ROOM WITH OCCUPANT GREATER THAN 49: TWO EGRESS DOORS REQUIRED
- CAPACITY FACTOR - LEVEL COMPONENTS/RAMPS : NFPA 101, TABLE 7.3.3.1
  - EGRESS DOOR CAPACITY WIDTH/PERSON: 0.2 INCHES
  - DOOR WIDTHS PROVIDED
  8TH FLOOR (MCCALLUM) - 18,667 SF
  8TH FLOOR (KAUL) - 17,782 SF
  18,667 + 17,782 / 100 = 365 OCCUPANTS
  365 X .2 INCHES / 4 DOORS AT STAIRS = 19" WIDE STAIR DOORS REQUIRED

  9TH FLOOR (MCCALLUM) - 20,125 SF / 100 = 202 OCCUPANTS
  202 X .2 INCHES / 3 DOORS AT STAIRS = 14" WIDE STAIR DOORS REQUIRED

  EXISTING STAIR DOORS ARE 36" WIDE

J. **PLUMBING FIXTURES** (PER IPC, CHAPTER 4, TABLE 403.1):

- **FIXTURE COUNT IS BASED ON:**
  BUSINESS:
  MEN AND WOMEN:
  - WATER CLOSETS (WCs): 1 PER 25 FOR THE FIRST 50 AND 1 PER 50 FOR THE REMAINDER EXCEEDING 50.
  - URINALS SHALL NOT BE SUBSTITUTED FOR MORE THAN 50 PERCENT OF THE REQUIRED WATER CLOSETS IN BUSINESS OCCUPANCIES.
  - LAVATORIES (LAVs): 1 PER 40 FOR THE FIRST 80 AND 1 PER 80 FOR THE REMAINDER EXCEEDING 80.
  - DRINKING FOUNTAINS: 1 PER 100
  - SERVICE SINK: 1

  FIXTURES PROVIDED:

  8TH FLOOR:
  MALE WATER CLOSETS: 4
  FEMALE WATER CLOSETS: 4
  MALE LAVATORIES: 3
  FEMALE LAVATORIES: 3
  DRINKING FOUNTAINS: 2 (1)
  BOTTLED WATER DISPENSERS: 1
  SERVICE SINKS: 1

  9TH FLOOR:
  MALE WATER CLOSETS: 4
  FEMALE WATER CLOSETS: 4
  MALE LAVATORIES: 3
  FEMALE LAVATORIES: 3
  DRINKING FOUNTAINS: 2
  BOTTLED WATER DISPENSERS: 1
  SERVICE SINKS: 1

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK		DATE	DESCRIPTION
		2017-10-06	SCHEMATIC DESIGN
		2017-11-22	PRELIMINARY DESIGN
		2018-02-02	90% CONSTRUCTION DOCUMENTS
		2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
		2018-03-28	CONSTRUCTION DOCUMENTS
	1	2018-04-05	ADDENDUM #1
	2	2018-04-12	ADDENDUM #2
	3	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

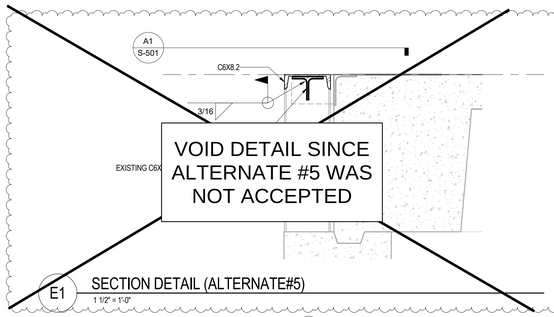
Sheet Name
CODE AND LIFE SAFETY INFORMATION

Scale
As indicated

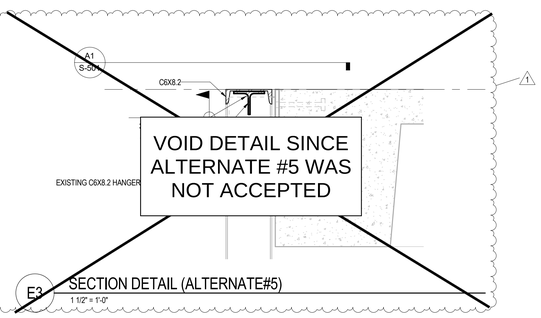
Sheet Number
G-101

Project Status
CONSTRUCTION DOCUMENTS

4/19/2018 5:07:12 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt



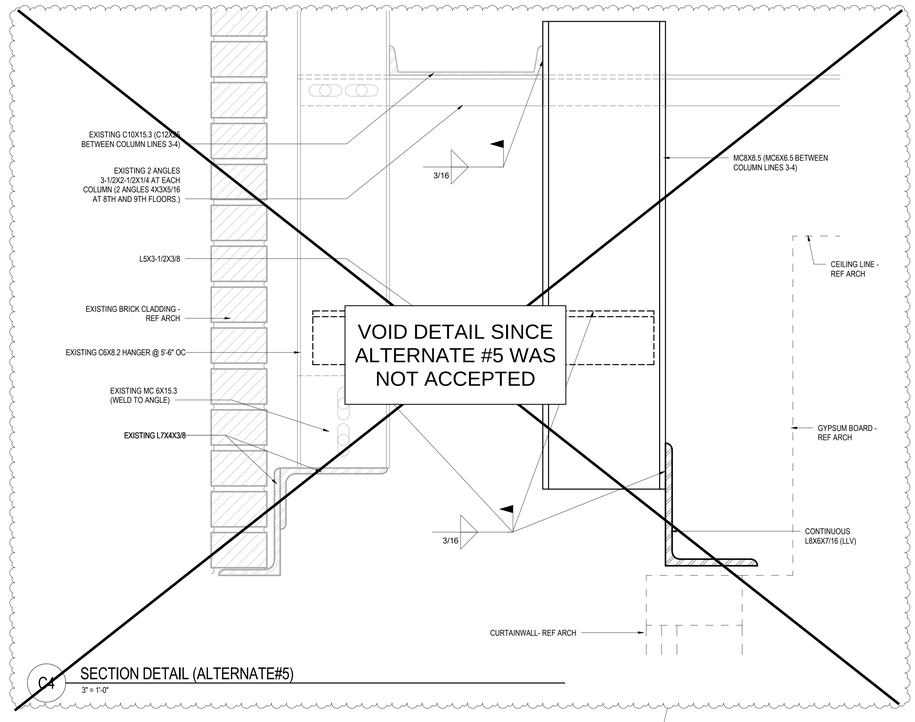
E1 SECTION DETAIL (ALTERNATE#5)
1 1/2" = 1'-0"



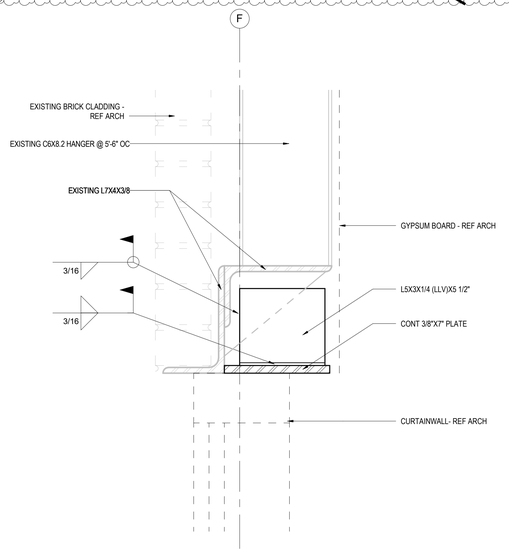
E3 SECTION DETAIL (ALTERNATE#5)
1 1/2" = 1'-0"

GENERAL STRUCTURAL NOTES

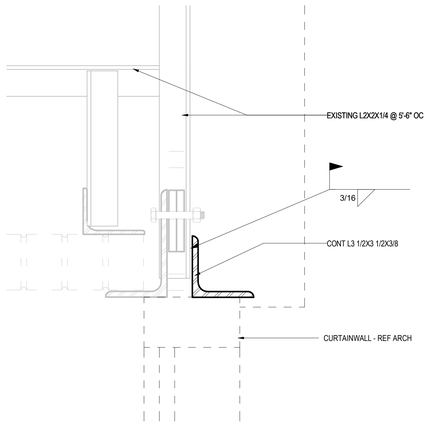
1. CONTRACTOR TO FIELD VERIFY CONDITIONS AND DIMENSIONS OF EXISTING STRUCTURE.



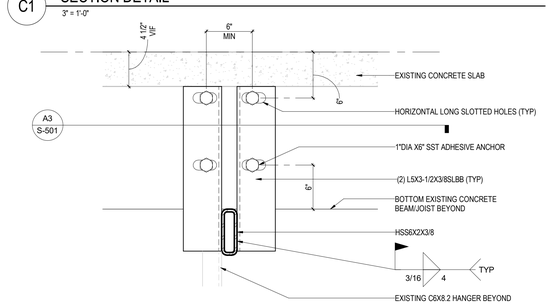
C4 SECTION DETAIL (ALTERNATE#5)
3" = 1'-0"



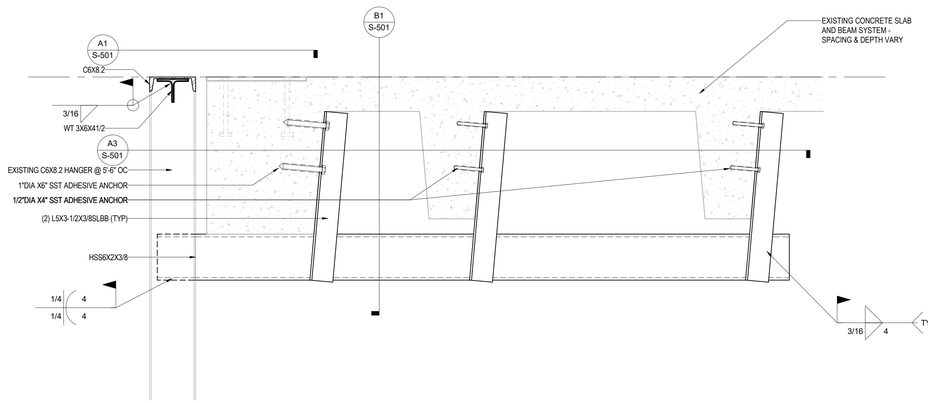
C2 SECTION DETAIL
3" = 1'-0"



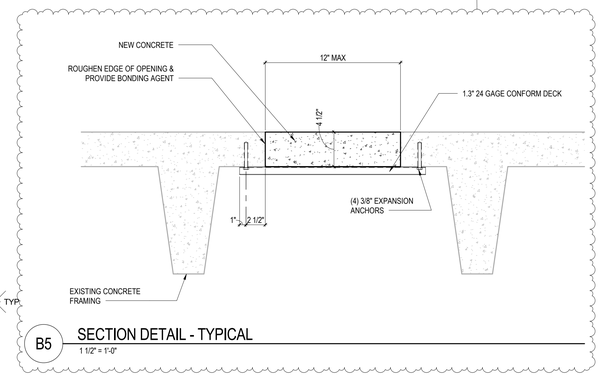
C3 SECTION DETAIL
3" = 1'-0"



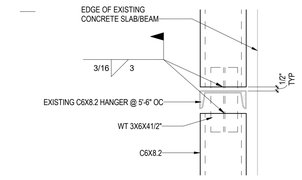
C1 SECTION DETAIL
3" = 1'-0"



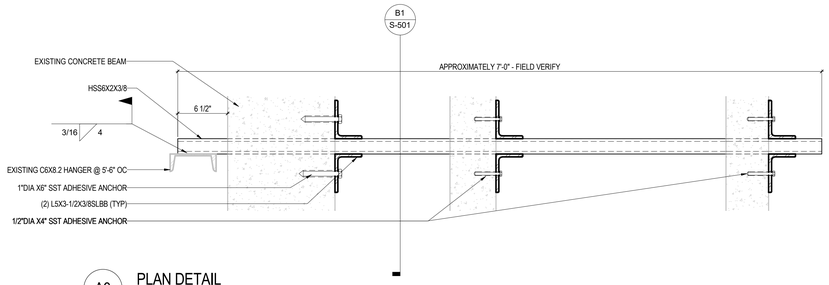
B3 SECTION DETAIL
1 1/2" = 1'-0"



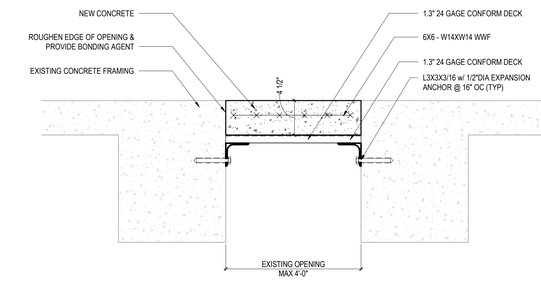
B5 SECTION DETAIL - TYPICAL
1 1/2" = 1'-0"



A1 PLAN DETAIL
1 1/2" = 1'-0"



A3 PLAN DETAIL
1 1/2" = 1'-0"



A5 SECTION DETAIL - TYPICAL
1 1/2" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-26	ADDENDUM #4

Project Number 10062179

ALABAMA LICENSED 23893 PROFESSIONAL ENGINEER RANDY MACCAFERRI 3/23/18

Sheet Name
DETAILS - EXTERIOR

Scale
As indicated

Sheet Number
S-501

Project Status
CONSTRUCTION DOCUMENTS

4/26/2018 3:18:05 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

ABBREVIATIONS

AB	ANCHOR BOLT, AUGER BORING	G	GROUND, GAS LINE,GRAM	R	RADIUS, RISER, RUBBER SHEATH
ABS	AIR BREAK SWITCH	GA	GAGE	RA	RETURN AIR
AC	AIR CONDITIONING, ASBESTOS CEMENT, ACRES	GAL	GALVANIZED	RAD	RADIUS
A/C	ASPHALTIC CONCRETE	GC	GLAZED COATING	RB	RESILIENT VINYL BASE
ACB	AIR CIRCUIT BREAKER	GFI	GROUND FAULT INTERRUPT	RCP	REINFORCED CONCRETE PIPE
ACM	ACOUSTICAL CEILING MATERIAL	GFMU	GROUND FACE MASONRY UNIT	RD	ROOF DRAIN, ROAD
ACSR	ALUMINUM CONDUCTOR STEEL REINFORCED	GL	GLASS	RECP	RECEPTACLE
ACST	ACOUSTIC	GR	GRADE	RED	REDUCING
AD	AREA DRAIN, ACCESS DOOR	GRD	GROUND	REINF	REINFORCEMENT
ADJ	ADJUSTABLE	GSU	GLAZED STRUCTURAL UNIT	REG	REGULATOR, REGISTER
AFF	ABOVE FINISHED FLOOR	GW	GROUND WATER	REQD	REQUIRED
AHU	AIR HANDLING UNIT	GWB	GYPSUM WALL BOARD	REV	REVISION
ALT	ALTERNATE	GYP	GYPSUM	RF	ROOF, RETURN FAN
AL	ALUMINUM			RHC	REHEAT COIL
AM	ACOUSTIC MATERIAL	HGT,H	HEIGHT, HUMIDIFIER	RI	RUBBER INSULATED
AMP, A	AMPERE	HB	HOSE BIBB	RGS	RIGID GALVANIZED STEEL
AP	ACCESS PANEL APPROX APPROXIMATE	HC	HANDICAPPED	RL	RAIN LEADER
ARCH	ARCHITECTURAL	HD	HARD DRAWN	RM	ROOM
ARR	ARRESTOR	HDW	HARDWARE	RPM	REVOLUTIONS PER MINUTE
ASPH	ASPHALT	HISW	HORN GAP SWITCH	RVT	RESILIENT VINYL TILE
		HID	HIGH INTENSITY DISCHARGE		
B	BASELINE	HORIZ	HORIZONTAL	S	SECOND, SOUTH, SANITARY, SEWER, STRUCTURE
BO	BOARD	HP	HIGH POINT	SAN	SANITARY SEWER
BEJ	BRICK EXPANSION JOINT	HPS	HIGH PRESSURE SODIUM	SATC	SUSPENDED ACOUSTICAL TILE CEILING
BLDG	BUILDING	HR	HOUR	SCH	SCHEDULE
BLK	BLOCK	HS	HIGH STRENGTH	SD	SPLITTER DAMPER, STORM DRAIN
BM	BEAM	HW	HOT WATER, HEADWALL	SE	SOUTHEAST
B	BOTTOM	HWL	HIGH WATER LEVEL	SECT	SECTION SERV SERVICE SF SILT FENCE
BRG	BEARING	HVY	HEAVY	SG	SUPPLY GRILLE
BR	BOTTOM REGISTER	HZ	HERTZ	SH	SHEET
BSMT	BASEMENT			SIM	SIMILAR
		ID	INSIDE DIAMETER, INSIDE DIMENSION	1 PH	SINGLE PHASE
C	CELSIUS	IE	INVERT ELEVATION	SKCP	SUSPENDED KEENE'S CEMENT PLASTER
CAP	CAPACITY	IMC	INTERMEDIATE METAL CONDUIT	SL	SLOPE
CB	CIRCUIT BREAKER	INT	INTERIOR	SMH	SANITARY MODULE
CD	CEILING DIFFUSER	INSUL	INSULATION, INSULATED	SP	STATIC PRESSURE, SINGLE POLE
CEM	CEMENT	INV	INVERT	SPC	SUSPENDED PLASTER CEILING
CG	CORNER GUARD	INTX	INTERSECTION	SPDT	SINGLE POLE, DOUBLE THROW
C&G	CURB AND GUTTER	IP	INLET PROTECTION	SPEC	SPECIFICATION
CH	CHILLER	IRBF	INDUSTRIAL RESIN BASE FLOORING	SPST	SINGLE POLE, SINGLE THROW
CI	CAST IRON, COURTYARD INLET			SQ	SQUARE
CIP	CAST IRON PIPE, CAST IN PLACE	JB	JUNCTION BOX	SR	SUPPLY REGISTER
CIR	CIRCULATING	JC	JANITOR CLOSET	SS	SANITARY SEWER
CJ	CONTROL JOINT	JCT	JUNCTION	ST	STEAM, SINGLE THROW, STREET
CKT	CIRCUIT	JT	JOINT	STA	STATION STD STANDARD
CLG	CEILING	JST	JOIST	STL	STEEL SUP SUPPORT
C	CENTERLINE			SUSP	SUSPENDED
CLR	CLEAR	K	KILO	SV	SHEET VINYL
CMP	CORRUGATED METAL PIPE	KIAC	THOUSAND AMP INTERRUPT CAPACITY	SW	SWITCH, SIDEWALK
CMPA	CORRUGATED METAL PIPE ARCH	KCP	KEENE'S CEMENT PLASTER	SWBD	SWITCHBOARD SWGR SWITCHGEAR
CMU	CONCRETE MASONRY UNITS	KG	KILOGRAM		
CND,C	CONDUIT	KN	KILONEWTON	T	TILE,TOP,TANGENT
CNDS	CONDENSATE	KO	KNOCK OUT	T&B	TOP AND BOTTOM
CO	CLEANOUT	KV	KILOVOLT	TC	TOP OF CURB
CODP	CLEANOUT W/ DECK PLUG	KVA	KILOVOLT-AMPERE	TEL	TELEPHONE
COL	COLUMN	KW	KILOWATT	TEMP	TEMPERATURE, TEMPORARY
COMM	COMMUNICATION			TERM	TERMINAL
CONC	CONCRETE	L/S	LITERS PER SECOND	3/C	THREE CONDUCTOR
COND	CONDUCTOR	L	LOUVER, LENGTH, LENGTH OF CURVE	3/P	THREE POLE
CONN	CONNECTION	LA	LIGHTNING ARRESTOR	3 WAY	THREE WAY
CONST	CONSTRUCTION	LC	LEAD COVERED	TH	TOTAL HEAD (PUMPS)
CONT	CONTINUOUS	LL	LIVE LOAD	THRSLD	THRESHOLD
CONV	CONVERTER	LLH	LONG LEG HORIZONTAL	TO	TOP OF
COP,CU	COPPER	LLV	LONG LEG VERTICAL	TP	TEST PIT
CP	NON-REINFORCED CONCRETE PIPE	LT	LIGHT	TR	TOP REGISTER
CR	CHAIR, CRASH RAIL	LAV	LAVATORY VERTICAL	TRANS	TRANSITION
CRS	STAINLESS STEEL	LVC	LENGTH OF VERTICAL CURVE	TS	TOP OF STEEL, TOP OF STONE, TOP OF SLAB
CS	CONCRETE SEALER/SURFACE			TV	TELEVISION
CSK	COUNTERSUNK	M/S	METERS PER SECOND	TW	TOP OF WALL
CT	CERAMIC TILE, CURRENT TRANSFORMER, COOLING TOWER	M	METER, MEGA	TYP	TYPICAL
CTR	CENTER, COOLING TOWER RETURN	MACH	MACHINE		
CTS	COOLING TOWER SUPPLY	MAS	MASONRY	UG	UNDERGROUND
CW	COLD WATER	MATL	MATERIAL	UCR	UNDER COUNTER REFRIGERATOR
CWB	CAPILLARY WATER BARRIER	MAX	MAXIMUM	UGE	UNDERGROUND ELECTRIC
CONTR	CONTRACTION	ECH	MECHANICAL	UGT	UNDERGROUND TELEPHONE
CPT	CARPET	MET	METAL	UH	UNIT HEATER
		MH	MANHOLE	UNO	UNLESS NOTED OTHERWISE
D	DEPTH, DEEP, DEGREE OF CURVATURE	MIN	MINIMUM, MINUTE		
DB	DRY BULB, DECIBEL, DIRECT BURIAL	MISC	MISCELLANEOUS	V	VENT,VOLT,VALVE
DD	DIVERSION DIKE	MLO	MAIN LUG ONLY	VA	VOLT AMPRE
DET	DETAIL	MM,mm	MILLIMETER	VAC	VACUUM
DH	DRILL HOLE	MO	MOTOR OPERATED, MASONRY OPENING, MIDDLE ORDINATE	VCT	VINYL COMPOSITION TILE
DI	DUCTILE IRON	MP	MEDIUM PRESSURE	V ASB	VINYL ASBESTOS
DIA	DIAMETER	MTD	MOUNTED	VC	VARNISH CAMBRIC, VITRIFIED CLAY
DIM	DIMENSION	MTG	MOUNTING	VCP	VITRIFIED CLAY PIPE
DL	DEAD LOAD	MMP	MEMBRANE WATERPROOFING	VENT	VENTILATING
DMPR	DAMPER	MULL	MULLION	VERT	VERTICAL
DN	DOWN			VEST	VESTIBULE
DP	DISTRIBUTION PANEL	N	NORTH	VPI	VERTICAL POINT OF INTERSECTION
DS	DOWNSPOUT, STORM DRAINAGE STRUCTURE	NA	NOT APPLICABLE	VPOC	VERTICAL POINT OF CURVE
DW	DOMESTIC WATER	NC	NON CORROSIVE	VPOT	VERTICAL POINT OF TANGENT
DWG	DRAWING	NE	NORTHEAST	VS	VENT STACK
DWD	DRINKING WATER DISPENSER	NDC	NOSE DOWN CURB	VTR	VENT THRU ROOF
		NEC	NATIONAL ELECTRIC CODE	VWC	VINYL WALL COVERING
E	EAST	NEUT	NEUTRAL		
EA	EACH	NIC	NOT IN CONTRACT	W	WIDTH,WASTE,WATER,WATT,WEST
EAN	EXCEPT AS NOTED	NO	NUMBER	W	WIRE, WATER LINE STRUCTURE
EAT	ENTERING AIR TEMPERATURE	NOM	NOMINAL	WA	WATT
EC	EMPTY CONDUIT	NPS	NOMINAL PIPE SIZE	W/	WITH
EF	EACH FACE, EXHAUST FAN	NTS	NOT TO SCALE	W/O	WITHOUT
EG	EXHAUST GRILLE	NW	NORTHWEST	WB	WET BULB
EL	ELEVATION			WC	WATER CLOSET
ELEC	ELECTRIC	OA	OUTSIDE AIR	WD	WIDTH, WINDOW DIMENSION
ELEV	ELEVATOR	OC	ON CENTER	WOM	WALK OFF MATT
EMT	ELECTRICAL METALLIC TUBING	OCB	OIL CIRCUIT BREAKER	WL	WATER LEVEL WP WATERPROOF, WEATHERPROOF
EMER	EMERGENCY	OD	OUTSIDE DIAMETER OPNG OPENING	WS	WASTE STACK, WATER SURFACE, WATERSTOP
E/P	EDGE OF PAVEMENT	OPP	OPPOSITE	WT	WEIGHT
EQ	EQUAL	OSD	OPEN SITE DRAIN	WWF	WELDED WIRE FABRIC
EQUIP	EQUIPMENT	OVHD,OH	OVERHEAD		
ER	EXHAUST REGISTER			XFMR	TRANSFORMER
EVAP	EVAPORATIVE	Pa	PASCALES	X-STR	UNIT HEATER
EW	EACH WAY	P	PIPE, POLE		
EWC	ELECTRIC WATER COOLER	PB	PULL BOX	2:1 SL	2 HORIZONTAL TO 1 VERTICAL SLOPE
EXH	EXHAUST	PI	POINT OF INTERSECTION	1 ON 2	1 VERTICAL ON 2 HORIZONTAL SLOPE
EXIST	EXISTING	PIV	POST INDICATOR VALVE		
EXP	EXPANSION, EXPOSED	PJF	PREFORMED JOINT FILLER	Δ	DEFLECTION ANGLE
EXP JT	EXPANSION JOINT	PL	PLATE	Ø	DIAMETER, PHASE
EXT	EXTERIOR	PLAS	PLASTER		
		PLNJ	PAPER AND LEAD NEOPRENE JACKET		
F	FIRE, FUSE, FILTER	PLYWD	PLYWOOD		
FA	FIRE ALARM FABX FIRE ALARM BOX	PNL	PANEL		
FD	FLOOR DRAIN, FIRE DAMPER	PNT	PAINT		
FDN	FOUNDATION	PRELIM	PRELIMINARY		
FDR	FEEDER	PRESS	PRESSURE		
FE	FIRE EXTINGUISHER	PRIM	PRIMARY		
FFE	FINISHED FLOOR ELEVATION	PRV	PRESSURE RELIEF VALVE		
FH	FIRE HYDRANT	PS	PULL SWITCH		
FHC	FIRE HOSE CABINET	PT	POINT, POINT OF TANGENT		
FIG	FIGURE	PTN	PARTITION		
FIN	FINISH	PVC	POINT OF VERTICAL CURVE, POLY VINYL CHLORIDE .		
FL	FLOOR, FLASHING, FLOW LINE	PVI	POINT OF VERTICAL INTERSECTION		
FLUOR	FLUORESCENT	PVT	POINT OF VERTICAL TANGENT PVMT PAVEMENT		
4 WAY	FOUR WAY				
FPH	FROST PROOF HYDRANT	QT	QUARRY TILE		
FR	FRAME				
FS	FULL SIZE				
FTG	FOOTING				
FJ	FELT JOINT				
FW	FIRE WATER				
FXTR	FIXTURE				

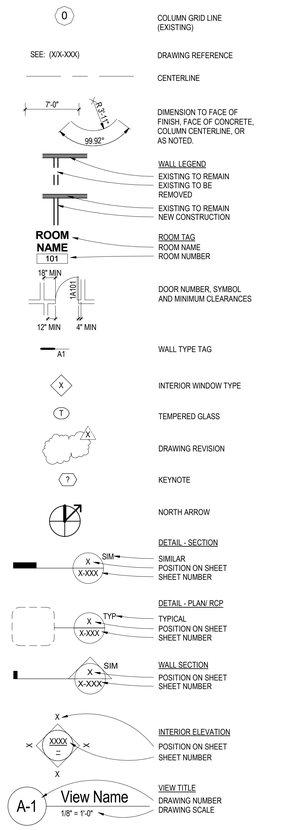
GENERAL NOTES

1. DRAWINGS & SPECIFICATIONS ARE COMPLIMENTARY COMPONENTS OF THE CONTRACT DOCUMENTS, REVIEW ALL DRAWINGS AND SPECIFICATIONS FOR THE COMPLETE SCOPE OF WORK. NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
2. DO NOT SCALE DRAWINGS, IF DIMENSIONAL INFORMATION IS REQUIRED & NOT FOUND, NOTIFY ARCHITECT IMMEDIATELY FOR CLARIFICATION.
3. ALL DIMENSIONS ARE TO COLUMN CENTERLINES, CENTER OF SUSPENDED CEILING GRIDS OR FACE OF FINISHED WALLS/SOFFITS UNLESS NOTED OTHERWISE.
4. DIMENSIONS TO EXISTING ELEMENTS SHALL BE FIELD-VERIFIED PRIOR TO FABRICATION OR CONSTRUCTION OF WORK. EXISTING ELEMENTS MAY INCLUDE EXISTING SITE ELEMENTS, ROUGH OPENINGS, DOORS AND OTHER MEP UTILITY LOCATIONS.
5. ALL ROOM OR AREA MEASUREMENTS AND ROOM DETAIL SPECIFICATIONS MUST BE VERIFIED ON SITE BY CONTRACTOR PRIOR TO BEGINNING ANY WORK.
6. DIMENSIONS PROVIDED ON INTERIOR ELEVATIONS FOR PLACEMENT OF WALL MOUNTED ITEMS ARE FOR GENERAL REFERENCE ONLY. PRIOR TO CONSTRUCTION, CONTRACTOR SHALL REVIEW BUILT / EXISTING CONDITIONS AND COORDINATE FINAL LOCATION OF ALL WALL MOUNTED ITEMS WITH OWNER AND PROVIDE APPROPRIATE BLOCKING IN WALLS AT ALL LOCATIONS NECESSARY FOR SUPPORTING WALL MOUNTED EQUIPMENT, SUPPORTS, ACCESSORIES OR SIMILAR ITEMS.
7. ALL EQUIPMENT LOCATIONS INCLUDING CLEAR DIMENSIONS FOR ANY OWNER FURNISHED/OWNER INSTALLED (OFOI) AND OWNER FURNISHED/CONTRACTOR INSTALLED (OFCI) EQUIPMENT OR SIMILAR ITEMS ARE SHOWN FOR GENERAL REFERENCE. PRIOR TO CONSTRUCTION CONTRACTOR SHALL VERIFY ALL OFOI AND OFCI EQUIPMENT AND THEIR LOCATIONS WITH OWNER. COORDINATE
8. WHETHER SPECIFICALLY NOTED ON DRAWINGS OR NOT, ALL AREAS WHERE WORK IS BEING PERFORMED MUST BE PATCHED, REPAIRED, PAINTED AND/OR RESTORED TO CONDITIONS THAT ARE NEW OR EQUAL TO EXISTING CONDITIONS. MAINTAIN EXISTING RATINGS. MATCH EXISTING FINISHES AND COLORS UNLESS OTHERWISE NOTED.
9. ALL PENETRATIONS THROUGH RATED WALLS, CEILINGS, ROOF AND FLOOR SLAB ASSEMBLIES ARE TO BE FIRE-SAFED. WHERE FIRE OR SMOKE-RATED, WATERPROOFED, WHERE EXPOSED TO THE ELEMENTS AND SEALED WHERE ACOUSTICALLY RATED.
10. AT ALL PENETRATIONS PROVIDE FINISHES AND SEALANTS ON BOTH SIDES OF WALLS, UNLESS OTHERWISE NOTED.
11. PROVIDE SEALANTS ALL AROUND AT WALL MOUNTED UTILITIES, BACKSPLASHES/ SIDESPLASHES, COUNTERTOPS, CABINETS, ELECTRICAL AND DATA RECEPTACLES AND OUTLET BOXES.
12. IN GENERAL THERE SHALL BE NO BACK-TO-BACK ELECTRICAL, TELEPHONE OR OTHER OUTLETS. WHEN OUTLETS ARE INDICATED AS OCCURRING BACK-TO-BACK THEY SHALL BE SEPARATED BY 6" HORIZONTALLY. WHERE DIMENSIONS SHOWN ARE IN CONFLICT WITH THIS, OBTAIN DIRECTION FROM ARCHITECT/ ENGINEER.
13. ALL ELECTRICAL OUTLETS IN KNEE SPACES AND INSIDE OF CABINETS WHERE INDICATED ARE TO BE CENTERED, UNLESS NOTED OTHERWISE.
14. ALL PLYWOOD AND ANY OTHER RELATED WOOD ITEMS SUCH AS BLOCKING TO BE FIRE-RETARDANT TREATED. SEE SPECIFICATIONS ACCORDINGLY.
15. CONTRACTOR IS RESPONSIBLE FOR PLANNING AND CONSTRUCTION OF ALL TEMPORARY CONSTRUCTION REQUIRED TO MAINTAIN ACCESS TO ADJACENT PROPERTIES AND CLEAR PATHS FOR MEANS OF EGRESS.
16. MINIMIZE DUST AND NOISE FROM CONSTRUCTION ACTIVITIES.
17. SUSPENDED CEILING TILES IN EACH ROOM ARE TO BE CONFIGURED SUCH THAT NO LESS THAN ONE-HALF A BORDER TILE EXISTS ADJACENT TO ANY ROOM WALL. UNLESS NOTED OTHERWISE.
18. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHT FIXTURE SPECIFIC INFORMATION.
19. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL DIFFUSER SPECIFIC INFORMATION.
20. SUSPENDED CEILING GRIDS ARE LAID OUT WITH EITHER A TILE OR A GRID AT THE CENTER OF THE ROOM IN EACH DIRECTION UNLESS NOTED OR DIMENSIONED OTHERWISE.

GENERAL DEMOLITION NOTES:

1. EXISTING PLAN CONFIGURATION AND BUILDING INFORMATION HAS BEEN PROVIDED BY THE OWNER AND BELIEVED TO REFLECT CURRENT CONDITIONS. CONTRACTOR TO CONFIRM ALL EXISTING CONDITIONS PRIOR TO COMMENCING WORK. NOTIFY ARCHITECT IF INCONSISTENCIES, CONTRADICTIONS OR OMISSIONS ARE DISCOVERED.
2. CONTRACTOR TO COORDINATE EXTENT OF DEMOLITION WORK REQUIRED WITH WORK SHOWN ON RENOVATION FLOOR PLANS.
3. PROTECT ALL EXISTING WORK TO REMAIN AND REPAIR DAMAGED AREAS TO MATCH EXISTING ADJACENT SURFACES UNLESS NOTED OTHERWISE. CONTRACTOR TO COORDINATE DEMOLITION ACTIVITIES WITH OWNER SO AS TO MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER OCCUPIED SPACES.
4. CONTRACTOR TO MAINTAIN MEANS OF EGRESS PATHWAYS AT ALL TIMES. COORDINATE ALTERNATE PROVISIONS AND OBTAIN APPROVAL FROM OWNER AND AUTHORITY HAVING JURISDICTION IF EXISTING MEANS OF EGRESS MUST BE COMPROMISED.
5. UTILITIES THAT REMAIN, WITHIN EXISTING WALLS TO BE DEMOLISHED, ARE TO BE REROUTED AS REQUIRED TO FACILITATE THE RENOVATION FLOOR PLANS.
6. CONTRACTOR TO PROVIDE FIRE, SMOKE, DIRT, DUST AND NOISE CONTAINMENT BARRIERS BETWEEN THE WORK AREA AND THE ADJACENT OWNER OCCUPIED SPACES.
7. CONTRACTOR TO COORDINATE ALL UTILITY SYSTEM SHUTDOWN ACTIVITIES IN ADVANCE WITH THE OWNER AND MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER OCCUPIED SPACES.
8. CONTRACTOR TO REMOVE ALL DEMOLITION DEBRIS AND CONSTRUCTION DEBRIS ON A DAILY BASIS. COORDINATE MEANS, METHODS AND ROUTES WITH THE OWNER.
9. WHERE SELECTIVE DEMOLITION IS REQUIRED ADJACENT TO EXISTING SURFACES TO REMAIN, PATCH AND REPAIR TO MATCH EXISTING SURFACES UNLESS NOTED OTHERWISE.
10. ALL UTILITY SYSTEMS AND OTHER COMPONENTS THAT ARE SCHEDULED FOR DISCONNECTION SHALL BE REMOVED IN THEIR ENTIRETY TO THE RISER OF MAIN LINE. "DISCONNECT, CAP AND ABANDON IN PLACE" IS NOT ACCEPTABLE – UNLESS SPECIFICALLY NOTED OTHERWISE.
11. NOT USED
12. ALL EXISTING CASEWORK SHALL BE DEMOLISHED AND REMOVED IN THE AREAS IDENTIFIED ON THE PLANS.
13. WHERE EXISTING FINISHES ARE TO BE REMOVED, PATCH AND PREPARE SUBSTRATE TO RECEIVE NEW FINISHES IN ACCORDANCE WITH NEW FINISH MATERIAL MANUFACTURE'S RECOMMENDATIONS.

SYMBOL LEGENDS



HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	ADDENDUM #2

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
SYMBOLS, & GENERAL NOTES

Scale
1/8" = 1'-0"

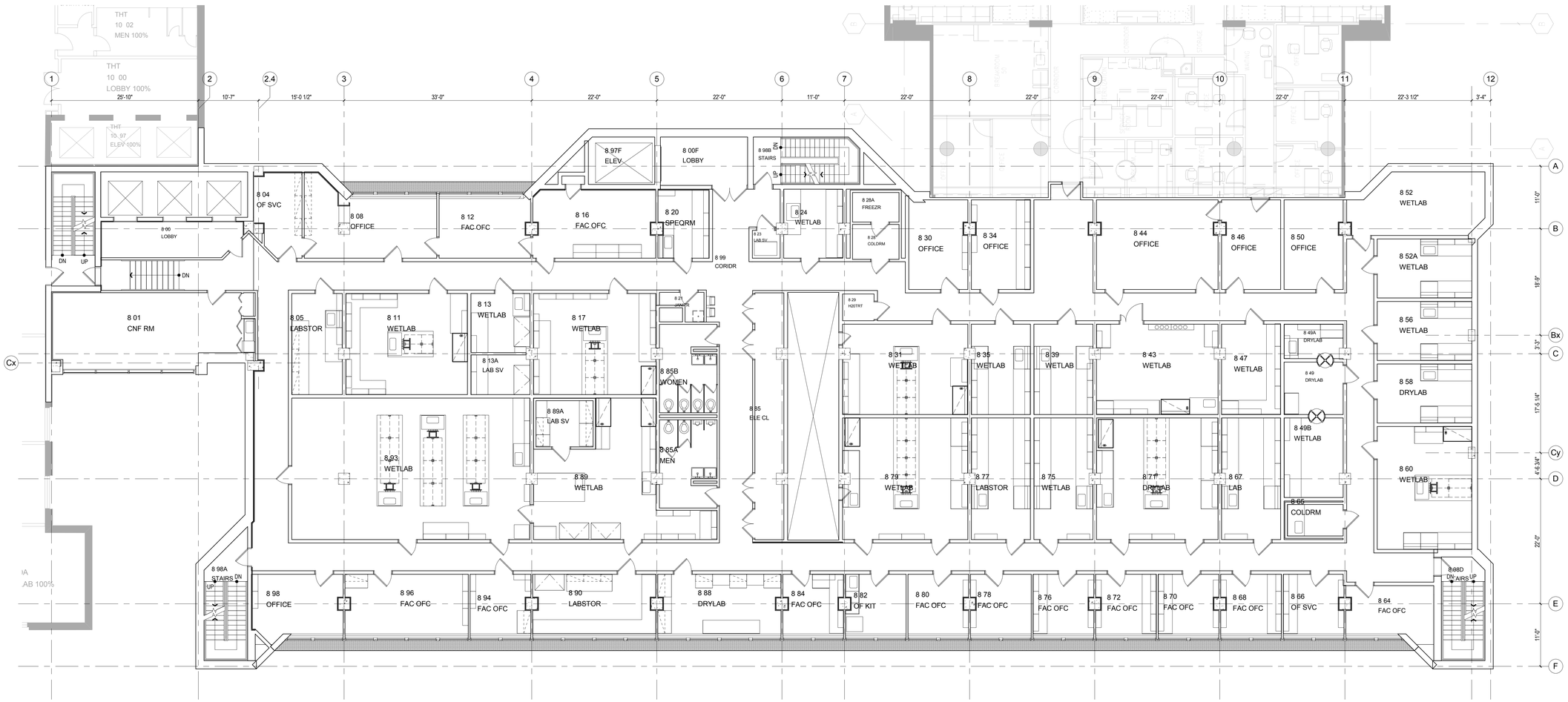
Sheet Number
A-001

Project Status
CONSTRUCTION DOCUMENTS

4/12/2018 4:36:30 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

TINSLEY

KAUL



A1 EXISTING PLAN - EIGHTH FLOOR (FOR REFERENCE ONLY)
1/8" = 1'-0"

3/28/2018 6:36:38 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_MANGUS.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179

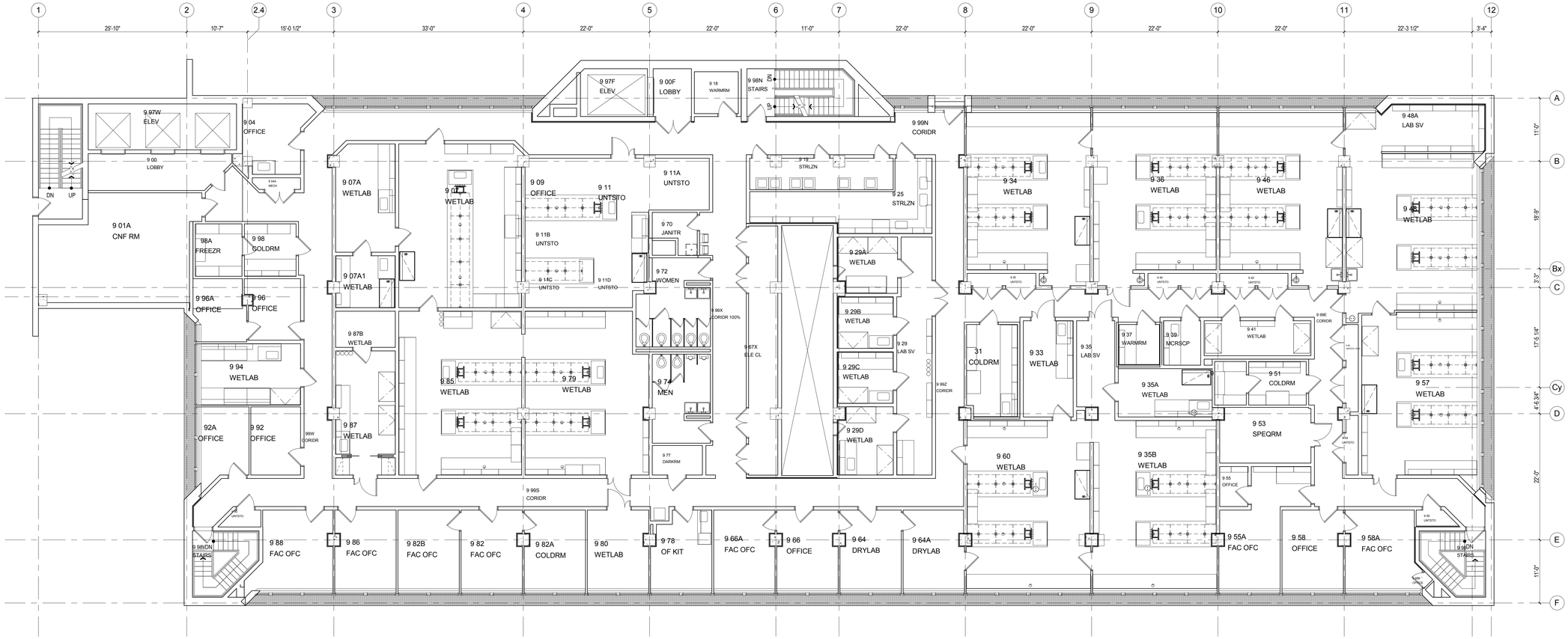
STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
EXISTING PLAN - EIGHTH FLOOR

Scale
1/8" = 1'-0"

Sheet Number
AE-108

Project Status
CONSTRUCTION DOCUMENTS



A1 EXISTING PLAN - NINTH FLOOR (FOR REFERENCE ONLY)
1/8" = 1'-0"

3/28/2018 6:35:43 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_MANGUS.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
26616
3/28/2018
REGISTERED ARCHITECT

Sheet Name
EXISTING PLAN - NINTH FLOOR

Scale
1/8" = 1'-0"

Sheet Number
AE-109

Project Status
CONSTRUCTION DOCUMENTS

DEMOLITION PLAN GENERAL NOTES

1. CONTRACTOR TO PROVIDE FIRE, SMOKE, DIRT, DUST AND NOISE CONTAINMENT BARRIERS BETWEEN THE WORK AREA AND ADJACENT OWNER OCCUPIED SPACES
2. CONTRACTOR TO REMOVE ALL DEMOLITION DEBRIS AND CONSTRUCTION DEBRIS ON A DAILY BASIS, COORDINATE MEANS, METHODS, ROUTES AND INFECTION CONTROL PROTOCOLS WITH THE OWNER.
3. ALL ITEMS ON THIS FLOOR WITH IN THE LIMITS OF CONSTRUCTION ARE TO BE DEMOLISHED UNLESS NOTED OTHERWISE . SEE DEMOLITION LEGEND. THIS INCLUDES, BUT IS NOT LIMITED TO: PARTITIONS, DOORS, CEILING FINISHES, FLOOR FINISHES, BUILT IN CASEWORK AND MILLWORK, ETC.
4. NOT USED.
5. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION DRAWINGS FOR REMOVAL OF UTILITIES.
6. CONTRACTOR TO COORDINATE ALL UTILITY SYSTEM SHUTDOWN ACTIVITIES IN ADVANCE WITH THE OWNER AND MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER OCCUPIED SPACES.
7. ALL UTILITY SYSTEMS AND OTHER COMPONENTS SCHEDULED FOR DISCONNECTION SHALL BE REMOVED IN THEIR ENTIRETY TO THE SOURCE. 'DISCONNECT, CAP AND ABANDON IN PLACE" IS NOT ACCEPTABLE – UNLESS SPECIFICALLY NOTED OTHERWISE.
8. UTILITIES THAT REMAIN LOCATED WITHIN EXISTING PARTITIONS TO BE DEMOLISHED, ARE TO BE REROUTED AS REQUIRED TO FACILITATE THE NEW PLAN CONFIGURATION - REFER TO MEP DRAWINGS.
9. WHERE SELECTIVE DEMOLITION IS REQUIRED ADJACENT TO EXISTING SURFACES TO REMAIN, PATCH AND REPAIR TO MATCH EXISTING SURFACES UNLESS NOTED OTHERWISE
10. REMOVE GYPSUM WALLBOARD AND FRAMING FROM AROUND COLUMN UNO.

DEMOLITION LEGEND

- TO BE DEMOLISHED
- TO REMAIN
- NOT IN CONTRACT

KEYNOTES - DEMOLITION

D1	REMOVE EXISTING GYPSUM BOARD CEILING AND ASSOCIATED COMPONENTS
D3	REMOVE ENVIRONMENTAL ROOM IN ITS ENTIRETY INCLUDING WALLS, DOORS, FLOOR, CEILING PANELS, ASSOCIATED CONDUITS, PIPING, ETC.
D5	REMOVE GYPSUM WALL BOARD AND METAL STUD FRAMING
D9	REMOVE EXTERIOR WINDOW FRAME, ASSOCIATED GLAZING AND SLOPED BRICK BELOW WINDOW (SEE WALL SECTION FOR MORE INFORMATION)
D12	REMOVE FUME HOOD, ASSOCIATED PLUMBING AND DUCTWORK
D13	EXISTING GYPSUM WALL AND METAL STUD FRAMING TO REMAIN
D14	DOOR AND FRAME TO REMAIN
D16	STAIR TO REMAIN
D18	REMOVE SURGICAL LIGHTS AND SUPPORTS ABOVE
D20	WINDOW FRAME ASSEMBLY AND GLAZING TO REMAIN
D33	REMOVE REVOLVING DOOR AND ASSOCIATED FRAMING
D36	REMOVE PREFABRICATED ENVIRONMENTAL ROOM DOOR AND FRAME

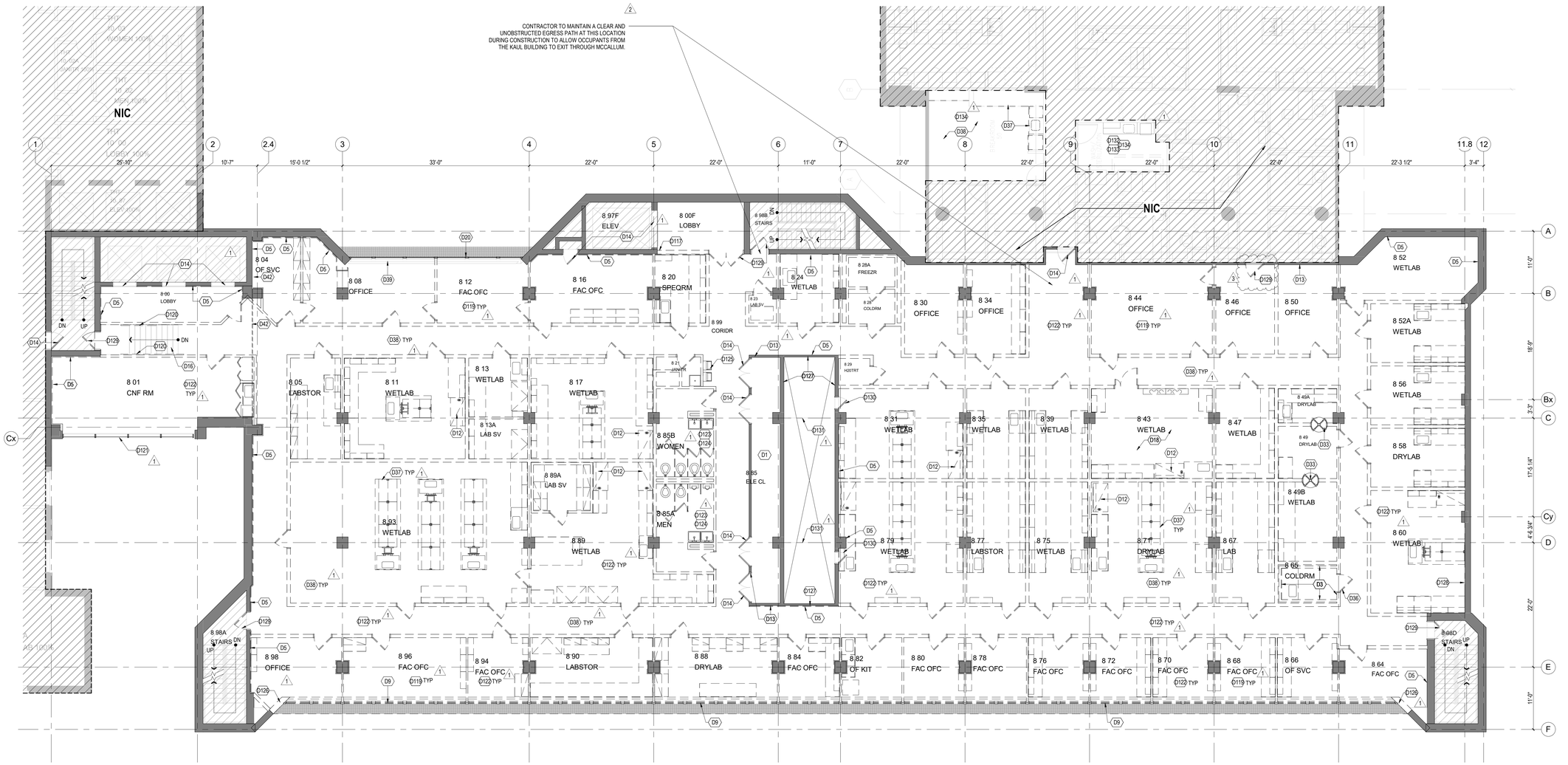
KEYNOTES - DEMOLITION

D37	REMOVE CASEWORK INCLUDING SINKS, DISHWASHERS AND COUNTERTOPS
D38	REMOVE VCT FLOORING AND ASSOCIATED BASE
D39	REMOVE GYPSUM WALL BAORD BELOW AND ABOVE EXISTING WINDOW. BELOW WINDOW, EXISTING METAL STUD FRAMING AND WINDOW SILL TO REMAIN. ABOVE WINDOW, REMOVE SLOPED GYPSUM BOARD SOFFIT AND THE STUDS THAT FRAME IT.
D42	FLOOR EXPANSION JOINT COVER TO BE REMOVED
D117	REMOVE CMU WALL. SAW CUT EDGE AT ELEVATOR WALL
D118	EXISTING CONCRETE WALL TO REMAIN
D119	EXISTING CARPET FLOORING TO BE DEMOLISHED
D120	EXISTING HADRAILS TO BE DEMOLISHED
D121	EXISTING WINDOWS AND SILL TO REMAIN. DEMOLISH EXISTING GYPSUM BOARD ABOVE AND BELOW WINDOW. EXISTING FRAMING TO REMAIN
D122	EXISTING CEILING TO BE DEMOLISHED
D123	EXISTING TILE FLOORING TO BE DEMOLISHED
D124	EXISTING PLUMBING FIXTURES AND TOILET PARTITIONS TO BE DEMOLISHED
D125	EXISTING DRINKING FOUNTAINS TO BE DEMOLISHED
D126	PORTION OF EXISTING EXTERIOR WALL TO BE DEMOLISHED
D127	EXISTING CMU WALL TO REMAIN
D128	EXISTING INTERIOR GYPSUM TO BE REMOVED. EXISTING EXTERIOR METAL STUDS TO REMAIN
D129	EXISTING DOOR TO BE DEMOLISHED
D130	EXISTING SHAFT ACCESS DOOR TO BE DEMOLISHED
D131	EXISTING STEEL CHANNELS TO REMAIN
D132	EXISTING FLOORING TO BE DEMOLISHED
D133	REMOVE BOTH STERILIZERS AND GLASS WASHER
D134	EXISTING CEILING GRID AND CEILING COMPONENTS INCLUDING BUT NOT LIMITED TO DIFFUSERS, LIGHT FIXTURES, ETC TO REMAIN. DEMOLISH EXISTING CEILING TILES.

EXISTING TINSLEY BUILDING

EXISTING KAUL BUILDING

CONTRACTOR TO MAINTAIN A CLEAR AND UNOBSTRUCTED EGRESS PATH AT THIS LOCATION DURING CONSTRUCTION TO ALLOW OCCUPANTS FROM THE KAUL BUILDING TO EXIT THROUGH MCCALLUM.



A1 A-201

A1 DEMOLITION PLAN - EIGHTH FLOOR
1/8" = 1'-0"

4/19/2018 5:06:52 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2
3	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
2816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
DEMOLITION PLAN - EIGHTH FLOOR

Scale
1/8" = 1'-0"

Sheet Number
AD-108

Project Status
CONSTRUCTION DOCUMENTS

DEMOLITION PLAN GENERAL NOTES

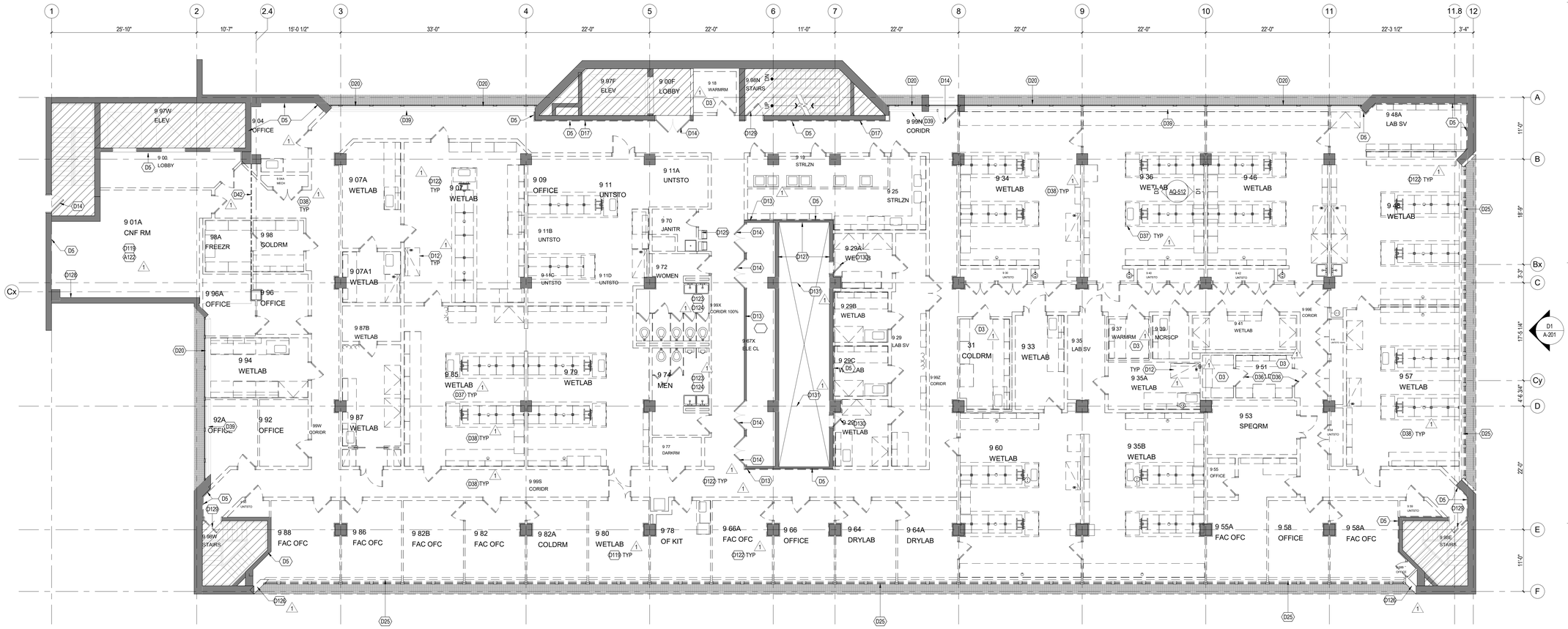
1. CONTRACTOR TO PROVIDE FIRE, SMOKE, DIRT, DUST AND NOISE CONTAINMENT BARRIERS BETWEEN THE WORK AREA AND ADJACENT OWNER OCCUPIED SPACES
2. CONTRACTOR TO REMOVE ALL DEMOLITION DEBRIS AND CONSTRUCTION DEBRIS ON A DAILY BASIS, COORDINATE MEANS, METHODS, ROUTES AND INFECTION CONTROL PROTOCOLS WITH THE OWNER.
3. ALL ITEMS ON THIS FLOOR WITH IN THE LIMITS OF CONSTRUCTION ARE TO BE DEMOLISHED UNLESS NOTED OTHERWISE . SEE DEMOLITION LEGEND. THIS INCLUDES, BUT IS NOT LIMITED TO: PARTITIONS, DOORS, CEILING FINISHES, FLOOR FINISHES, BUILT IN CASEWORK AND MILLWORK, ETC.
4. NOT USED.
5. REFER TO MECHANICAL, ELECTRICAL AND PLUMBING DEMOLITION DRAWINGS FOR REMOVAL OF UTILITIES.
6. CONTRACTOR TO COORDINATE ALL UTILITY SYSTEM SHUTDOWN ACTIVITIES IN ADVANCE WITH THE OWNER AND MAINTAIN FULL FUNCTIONALITY OF ADJACENT OWNER OCCUPIED SPACES.
7. ALL UTILITY SYSTEMS AND OTHER COMPONENTS SCHEDULED FOR DISCONNECTION SHALL BE REMOVED IN THEIR ENTIRETY TO THE SOURCE, "DISCONNECT, CAP AND ABANDON IN PLACE" IS NOT ACCEPTABLE – UNLESS SPECIFICALLY NOTED OTHERWISE.
8. UTILITIES THAT REMAIN LOCATED WITHIN EXISTING PARTITIONS TO BE DEMOLISHED, ARE TO BE REROUTED AS REQUIRED TO FACILITATE THE NEW PLAN CONFIGURATION - REFER TO MEP DRAWINGS.
9. WHERE SELECTIVE DEMOLITION IS REQUIRED ADJACENT TO EXISTING SURFACES TO REMAIN, PATCH AND REPAIR TO MATCH EXISTING SURFACES UNLESS NOTED OTHERWISE
10. REMOVE GYPSUM WALLBOARD AND FRAMING FROM AROUND COLUMN UNO.

DEMOLITION LEGEND

- TO BE DEMOLISHED
- TO REMAIN
- NOT IN CONTRACT

KEYNOTES - DEMOLITION

D1	REMOVE EXISTING GYPSUM BOARD CEILING AND ASSOCIATED COMPONENTS
D3	REMOVE ENVIRONMENTAL ROOM IN ITS ENTIRETY INCLUDING WALLS, DOORS, FLOOR, CEILING PANELS, ASSOCIATED CONDUITS, PIPING, ETC.
D5	REMOVE GYPSUM WALL BOARD AND METAL STUD FRAMING
D12	REMOVE FUME HOOD, ASSOCIATED PLUMBING AND DUCTWORK
D13	EXISTING GYPSUM WALL AND METAL STUD FRAMING TO REMAIN
D14	DOOR AND FRAME TO REMAIN
D17	REMOVE BUMPER RAILS AND ASSOCIATED HARDWARE
D20	WINDOW FRAME ASSEMBLY AND GLAZING TO REMAIN
D25	REMOVE EXTERIOR WINDOW FRAME AND GLAZING (SEE WALL SECTIONS FOR MORE INFORMATION)
D36	REMOVE PREFABRICATED ENVIRONMENTAL ROOM DOOR AND FRAME
D37	REMOVE CASEWORK INCLUDING SINKS, DISHWASHERS AND COUNTERTOPS
D38	REMOVE VCT FLOORING AND ASSOCIATED BASE
D39	REMOVE GYPSUM WALL BAORD BELOW AND ABOVE EXISTING WINDOW. BELOW WINDOW, EXISTING METAL STUD FRAMING AND WINDOW SILL TO REMAIN. ABOVE WINDOW, REMOVE SLOPED GYPSUM BOARD SOFFIT AND THE STUDS THAT FRAME IT.
D42	FLOOR EXPANSION JOINT COVER TO BE REMOVED
D118	EXISTING CONCRETE WALL TO REMAIN
D119	EXISTING CARPET FLOORING TO BE DEMOLISHED
D122	EXISTING CEILING TO BE DEMOLISHED
D123	EXISTING TILE FLOORING TO BE DEMOLISHED
D124	EXISTING PLUMBING FIXTURES AND TOILET PARTITIONS TO BE DEMOLISHED
D125	EXISTING DRINKING FOUNTAINS TO BE DEMOLISHED
D126	PORTION OF EXISTING EXTERIOR WALL TO BE DEMOLISHED
D127	EXISTING CMU WALL TO REMAIN
D128	EXISTING INTERIOR GYPSUM TO BE REMOVED. EXISTING EXTERIOR METAL STUDS TO REMAIN
D129	EXISTING DOOR TO BE DEMOLISHED
D130	EXISTING SHAFT ACCESS DOOR TO BE DEMOLISHED
D131	EXISTING STEEL CHANNELS TO REMAIN



A1 DEMOLITION PLAN - NINTH FLOOR
1/8" = 1'-0"

4/12/2018 4:37:32 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
DEMOLITION PLAN - NINTH FLOOR

Scale
1/8" = 1'-0"

Sheet Number
AD-109

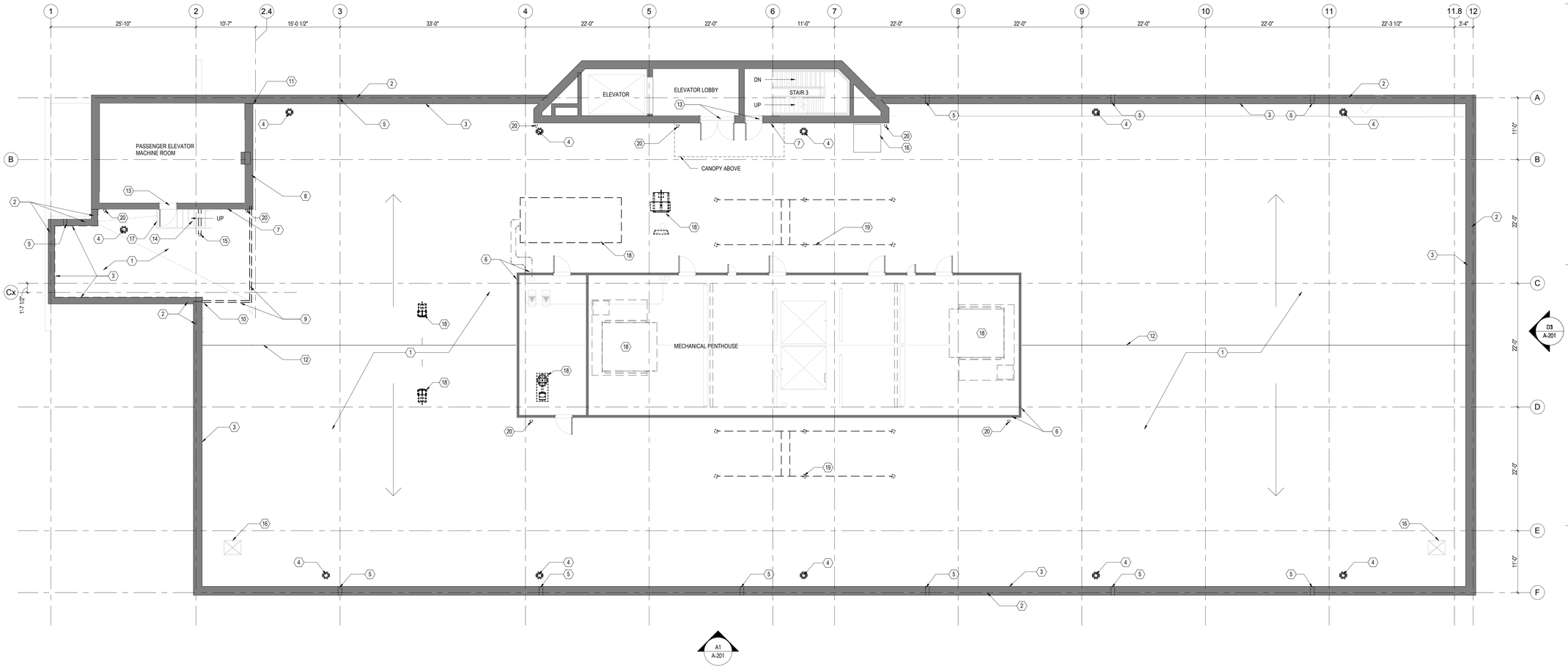
Project Status
CONSTRUCTION DOCUMENTS

GENERAL ROOF DEMOLITION NOTES:

1. ALL ROOFING SCOPE SHOWN ON THIS SHEET IS AN ALTERNATE. BASE BID TO INCLUDE NO ROOFING SCOPE AND ALL EXISTING ROOF TOP EQUIPMENT TO REMAIN IN PLACE.

SHEET SPECIFIC NOTES

1. DEMOLISH EXISTING ROOFING ASSEMBLY (MEMBRANE, GRAVEL AND RIGID INSULATION) DOWN TO STRUCTURAL CONCRETE SLAB, TYP. EXISTING STRUCTURAL SLAB SLOPES AT APPROXIMATELY 1/4"/12" AND IS TO REMAIN.
2. DEMOLISH EXISTING COPING, ANCHORS AND ANCHOR PLATES ON TOP OF EXISTING CONCRETE PARAPET WALL. EXISTING CONCRETE PARAPET WALL TO REMAIN, TYP.
3. DEMOLISH EXISTING CANT, REGLET, COUNTER FLASHING AND VERTICAL FLASHING MEMBRANE ON BACKSIDE OF PARAPET WALL.
4. DEMOLISH ALL EXISTING ROOF DRAINS, TYP.
5. DEMOLISH METAL AT EXISTING SCUPPER, RELATED BLOCKING IF ANY AND FLASHING. CLEAR OPENING OF EXISTING SCUPPERS IS 7" x 7".
6. EXISTING MECHANICAL PENTHOUSE WALL AND CONCRETE CURB TO REMAIN. DEMOLISH EXISTING ROOF FLASHING, COUNTERFLASHING, CANT STRIP AND BLOCKING.
7. DEMOLISH EXISTING ROOF FLASHING, CANT STRIP, BLOCKING AND COUNTERFLASHING, TYP. SEE NEW ROOF PLAN AND DETAILS FOR MORE INFORMATION.
8. SHELF ANGLE AT EXPANSION JOINT TO REMAIN. DEMOLISH EXISTING EXPANSION JOINT CURB, FILLER MATERIAL, COVER, CANT STRIP AND FLASHING, TYP. SEE NEW ROOF PLAN AND DETAILS FOR MORE INFORMATION.
9. DEMOLISH EXISTING EXPANSION JOINT CURBS, FILLER MATERIAL, COVER, CANT STRIP AND FLASHING, TYP.
10. DEMOLISH EXISTING VERTICAL EXPANSION JOINT FILLER MATERIAL AND COVER, TYP.
11. SHELF ANGLE AT EXPANSION JOINT TO REMAIN. DEMOLISH EXISTING VERTICAL EXPANSION JOINT COVER, FILLER MATERIAL AND FLASHING, TYP. SEE NEW ROOF PLAN AND DETAILS FOR MORE INFORMATION.
12. HIGH POINT OF ROOF.
13. DOOR FRAME AND DOOR LEAF TO REMAIN. DEMOLISH EXISTING DOOR THRESHOLD.
14. EXISTING STAIR AND RAILINGS TO REMAIN.
15. REMOVE EXISTING STAIR SUPPORT STEEL COLUMN AT ROOF AND AT BRICK PENETRATION AT WALL.
16. EXISTING ROOF TOP EQUIPMENT TO REMAIN. SEE MECHANICAL.
17. REMOVE EXISTING ANGLED STEEL STAIR LANDING SUPPORTS UNDER LANDING.
18. REMOVE EXISTING ROOF TOP EQUIPMENT. SEE MECHANICAL.
19. DEMOLISH EXISTING STEEL FRAMED EQUIPMENT SUPPORTS DOWN TO STRUCTURAL CONCRETE.
20. DEMOLISH EXISTING DOWNSPOUT AND SPLASHBLOCK.



A1 DEMOLITION PLAN - LOW ROOF
1/8" = 1'-0"

3/28/2018 3:40:27 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_MANGUS.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7810
3/28/2018
REGISTERED ARCHITECT

Sheet Name

DEMOLITION PLAN - LOW ROOF

Scale
1/8" = 1'-0"

Sheet Number

AD-110

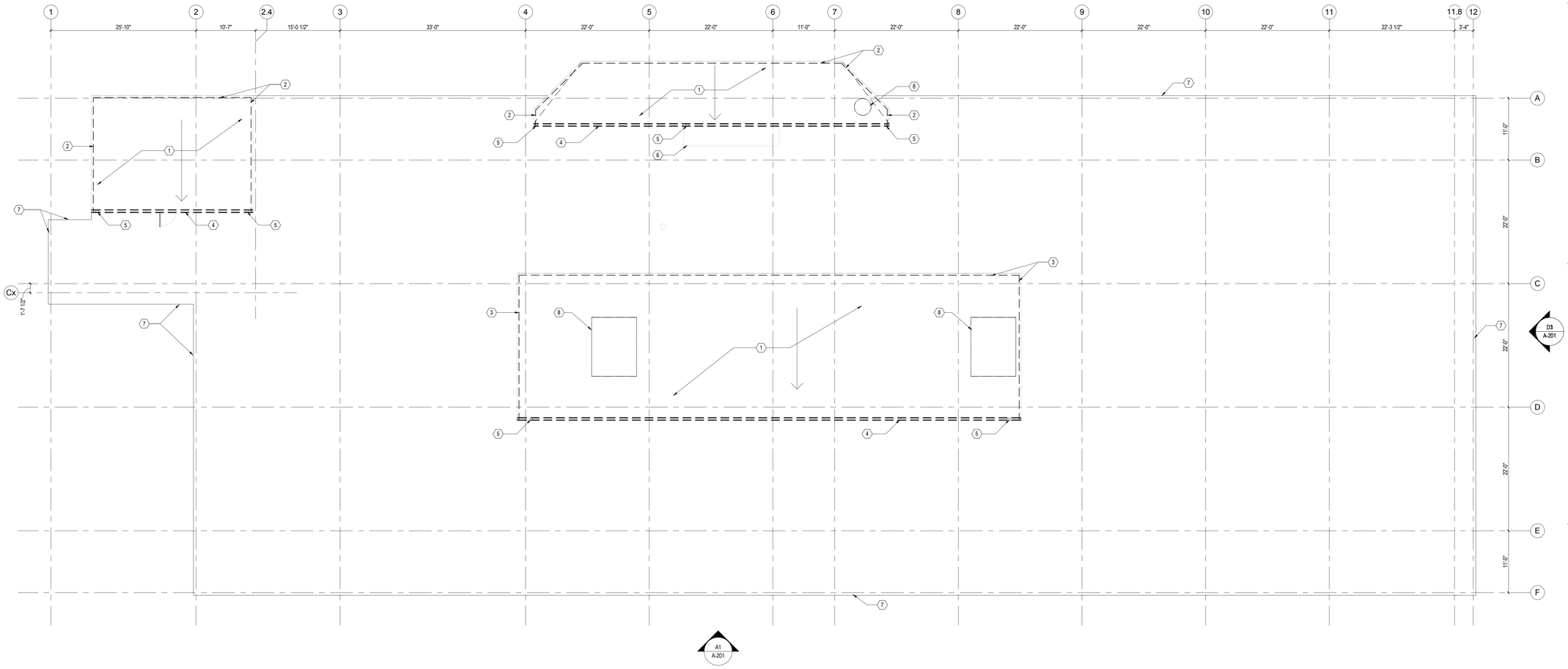
Project Status
CONSTRUCTION DOCUMENTS

GENERAL ROOF DEMOLITION NOTES:

1. ALL ROOFING SCOPE SHOWN ON THIS SHEET IS AN ALTERNATE. BASE BID TO INCLUDE NO ROOFING SCOPE AND ALL EXISTING ROOF TOP EQUIPMENT TO REMAIN IN PLACE.

SHEET SPECIFIC NOTES

1. DEMOLISH EXISTING ROOFING ASSEMBLY (MEMBRANE, GRAVEL AND RIGID INSULATION) DOWN TO STRUCTURAL SUBSTRATE, TYP. EXISTING ROOF STRUCTURE SLOPES AND IS TO REMAIN.
2. EXISTING BRICK TO REMAIN. DEMOLISH EXISTING GRAVEL STOP, FASCIA AND WOOD BLOCKING, TYP.
3. EXISTING MECHANICAL PENTHOUSE WALL TO REMAIN. DEMOLISH EXISTING GRAVEL STOP, FASCIA AND WOOD BLOCKING, TYP.
4. DEMOLISH EXISTING GUTTER, TYP.
5. DEMOLISH EXISTING DOWNSPOUTS, TYP.
6. EXISTING CANOPY TO REMAIN.
7. OUTLINE OF ROOF EDGE BELOW.
8. EXISTING ROOF TOP EQUIPMENT TO REMAIN.



A1 DEMOLITION PLAN - HIGH ROOF
1/8" = 1'-0"

3/28/2018 3:40:31 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_MANGUS.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
DEMOLITION PLAN - HIGH ROOF

Scale
1/8" = 1'-0"

Sheet Number
AD-111

Project Status
CONSTRUCTION DOCUMENTS

KEYNOTES - SHEET

A7	FEC1 - FIRE EXTINGUISHER CABINET - SEMI RECESSED
A12	PROVIDE ABUSE RESISTANT GYPSUM BOARD WALLBOARD ALL FOUR WALLS UNLESS NOTED OTHERWISE
A14	NEW HANDRAIL - SEE A-611 FOR DETAILS
A16	NEW GUARDRAIL - SEE A-611 FOR DETAILS
A68	EJ-1 - FLOOR EXPANSION JOINT COVER - PROVIDE FIRE BARRIER SYSTEM IN EXISTING JOINT, 07 95 13
A109	3 TIER MILLWORK LOCKERS 10 51 16 ON 4" BASE
A110	NEW RATED SHAFT ACESS DOORS (24"W x 36"H)
A111	EXISTING ACCESS DOORS TO KAUL TO REMAIN
A112	EXISTING ACCESS DOORS TO TINSLEY TO REMAIN
A113	PROVIDE 5/8" GYPSUM WALL BOARD ABOVE AND BELOW EXISTING WINDOWS. NEW METAL STUD FRAMING ABOVE WINDOW.
A118	METAL SHELF ON STANDARDS AND BRACKETS - MOUNTED 60" AFF
A119	CENTER WALL ON COLUMN LINE
A120	CENTER WINDOW ON WALL
A121	CENTER WALL ON WINDOW MULLION. SEE E1 AND E2/A-730
A122	SAFETY SHOWER - SEE AQ DRAWINGS
A123	TWO (2) ROWS OF CONTIUNOUS BLOCKING REQUIRED AROUND ROOM
A124	MARKER BOARD MB-4
A125	CONTRACTOR TO COORDINATE LOCATION OF SCREENS WITH OWNER. SUPPLY NECESSARY BLOCKING FOR MONITORS
A151	EXISTING PIPING RISERS TO REMAIN
A152	PROVIDE NEW GYPSUM BOARD ABOVE AND BELOW WINDOW ATTACHED TO EXISTING STUD FRAMING
A153	POWER/DATA FLOOR BOX. SEE ELECTRICAL

FLOOR PLAN LEGEND

- NEW WALL AND DOOR
- EXISTING WALL AND DOOR TO REMAIN
- NOT IN CONTRACT
- ARCHITECTURAL CASEWORK. SEE SHEET A-411, A-412 AND A-621. FOR CASEWORK NOT NOTED AS SUCH SEE AQ DRAWINGS

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO COLUMN CENTERLINES OR FACE OF FINISHED WALLS OR SURFACES UNLESS NOTED OTHERWISE.
2. REFER TO DEMOLITION DRAWINGS FOR WORK REQUIRED IN ADVANCE OF CONSTRUCTION AND COORDINATE ACCORDINGLY.
3. ALL DOOR FRAMES ARE TO BE INSTALLED 4" AWAY OF ADJACENT PERPENDICULAR WALLS UNLESS NOTED OTHERWISE.
4. REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL FIRE / SMOKE RATING REQUIREMENTS.
5. ALL NON-LOAD BEARING INTERIOR WALLS ARE TYPE "A3" WITH BATT INSULATION UNLESS NOTED OTHERWISE.
6. ALL INTERIOR WALLS AROUND EXISTING CONCRETE COLUMNS ARE TO BE "K1" WITH OUT BATT INSULATION UNLESS NOTED OTHERWISE. SEE C4/A-730.
7. ALL INTERIOR WALLS AT EXISTING CONDITIONS WHERE GWB WAS REMOVED ARE TYPE "N" UNLESS NOTED OTHERWISE.
8. ALL EXISTING EXTERIOR WINDOWS TO REMAIN UNO.
9. SEE DEMOLITION PLANS FOR EXISTING ELEMENTS TO REMAIN, INCLUDING BUT NOT LIMITED TO DOORS, WALLS AND WINDOWS.
10. PAINT ALL DOORS IDENTIFIED AS EXISTING TO REMAIN.
11. PAINT EXPOSED CONCRETE WALLS WITH IN BUT NOT LIMITED TO SERVICE ELEVATOR LOBBY, WASTE ROOM, AND WALLS OF STAIRS TO TINSLEY.
12. PAINT ALL EXPOSED GYPSUM WALL BOARDS AS IDENTIFIED AS EXISTING TO REMAIN.
13. REFER TO TYPICAL STAIR AND RAILING DETAILS. SEE D5 & E5/A-611.

EXISTING TINSLEY BUILDING

EXISTING KAUL BUILDING

NOTE:
- PROVIDE NEW MILLWORK (PL-1) AND COUNTERTOPS (EQF-1)
- NEW QUARTZ TILE FLOORING (RT-1)
- NEW ACOUSTICAL CEILING TILES (ACM-1)
- PATCH AND PAINT ALL WALLS (PT-1)

CONTRACTOR TO MAINTAIN A CLEAR AND UNOBSTRUCTED EGRESS PATH AT THIS LOCATION DURING CONSTRUCTION TO ALLOW OCCUPANTS FROM THE KAUL BUILDING TO EXIT THROUGH MCCALLUM.

NOTE:
- COORDINATE INSTALL OF DUAL CHAMBER TOWER MODEL STERILIZER (OFOI)
- COORDINATE INSTALL OF NEW GLASS WASHER (OFOI)
- NEW EPOXY FLOORING WITH INTEGRAL BASE (SEF-1)
- NEW ACOUSTICAL CEILING TILES (ACM-2)
- PATCH AND EPOXY PAINT ALL WALLS (PTE-1)

NIC

ELEVATORS 897W
STAIRS
ELEVATOR LOBBY 800
CONFERENCE ROOM 802A
COFFEE 802
LOCKERS 801
CORRIDOR 899W
OFFICE 804
OFFICE 806
OFFICE 808
STAIRS 898W
ELEVATOR 897F
ELEVATOR LOBBY 800F
WASTE 861
STAIRS 898N
CORRIDOR 899N
MICROSCOPY/ INSTRUMENT 818A1
FUME HOOD 818A
CELL CULTURE 818B
CELL CULTURE 818C
SUPPORT LAB 818D
MICROSCOPY/ INSTRUMENT 818D1
EQUIP. 818E
CER 850
CORR 899X 327 SF
CYL. STOR 841
JAN 848
STORAGE 840
WOMEN 846
MEN 844
ELEC 843
SHAFT
OPEN LAB 818
COPY/ RECYCLE 816
CORRIDOR 899S
OFFICE 809
HUDDLE 811
OFFICE 813
OFFICE 815
OPEN OFFICE 817
COLLABORATION 819
OFFICE 821
OFFICE 823
OFFICE 823.5
OPEN OFFICE 825
CORRIDOR 899N
SMOKING MACHINE 824A
PROCEDURE 824B
EQUIP. 824C
STORAGE 826
CELL CULTURE 824E
EQUIP. 824F
SUPPORT LAB 824D
OPEN LAB 824
MICROSCOPY/ INSTRUMENT 824G1
SUPPORT LAB 824G
PROCEDURE 824H
MICROSCOPY/ INSTRUMENT 824H1
OFFICE 827.5
OFFICE 827
HUDDLE 829
OFFICE 831
STAIRS 898E

EXISTING EXTERIOR WINDOWS TO REMAIN
NEW EXTERIOR WINDOWS - SEE ELEVATIONS AND WALL SECTIONS

A1 FLOOR PLAN - EIGHTH FLOOR
1/8" = 1'-0"

4/19/2018 5:14:40 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2
3	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
19616
3/28/2018
REGISTERED ARCHITECT

Sheet Name
FLOOR PLAN - EIGHTH FLOOR

Scale
1/8" = 1'-0"

Sheet Number
A-108

Project Status
CONSTRUCTION DOCUMENTS

FLOOR PLAN LEGEND

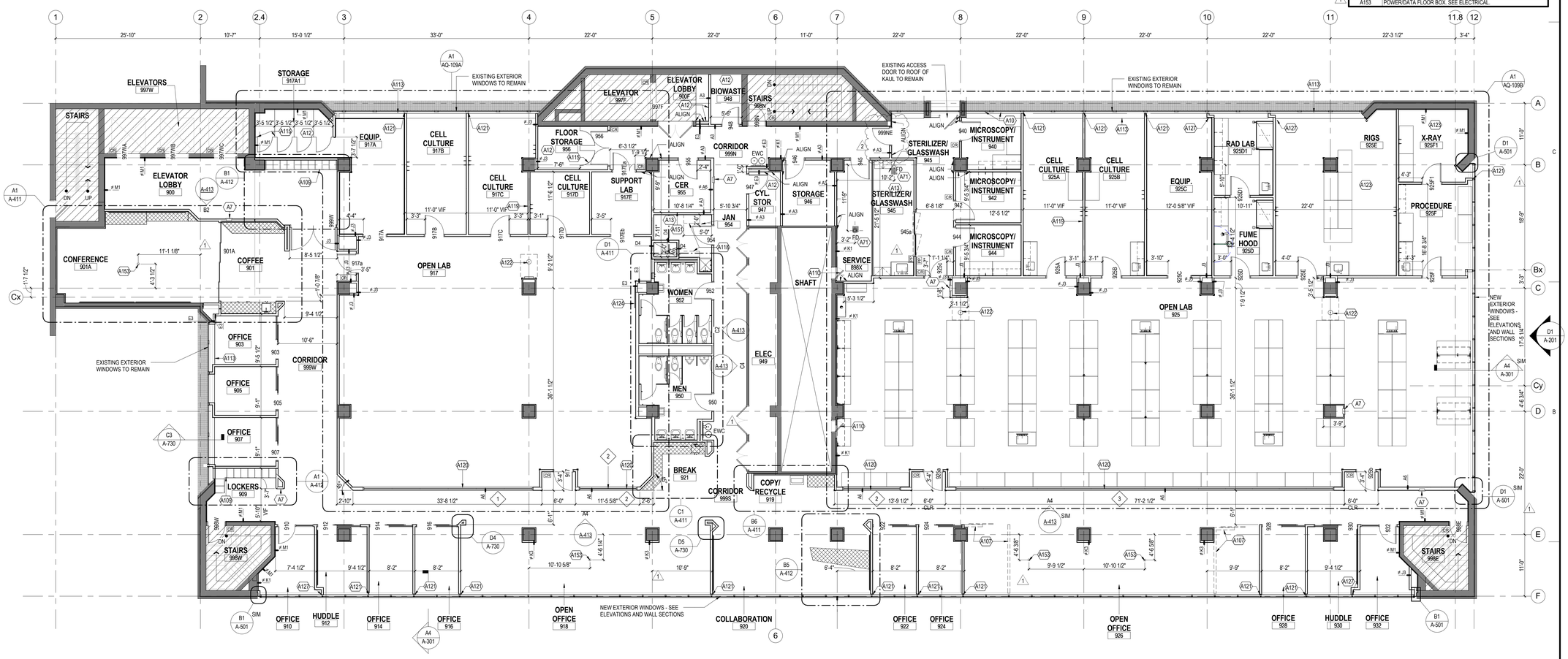
- NEW WALL AND DOOR
- EXISTING WALL AND DOOR TO REMAIN
- NOT IN CONTRACT
- ARCHITECTURAL CASEWORK. SEE SHEET A-411, A-412 AND A-621. FOR CASEWORK NOT NOTED AS SUCH SEE AQ DRAWINGS

FLOOR PLAN GENERAL NOTES

1. ALL DIMENSIONS ARE TO COLUMN CENTERLINES OR FACE OF FINISHED WALLS OR SURFACES UNLESS NOTED OTHERWISE.
2. REFER TO DEMOLITION DRAWINGS FOR WORK REQUIRED IN ADVANCE OF CONSTRUCTION AND COORDINATE ACCORDINGLY.
3. ALL DOOR FRAMES ARE TO BE INSTALLED 4" AWAY OF ADJACENT PERPENDICULAR WALLS UNLESS NOTED OTHERWISE.
4. REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL FIRE / SMOKE RATING REQUIREMENTS.
5. ALL NON-LOAD BEARING INTERIOR WALLS ARE TYPE "A3" WITH BATT INSULATION UNLESS NOTED OTHERWISE.
6. ALL INTERIOR WALLS AROUND EXISTING CONCRETE COLUMNS ARE TO BE "X1" WITH OUT BATT INSULATION UNLESS NOTED OTHERWISE. SEE C4/A-730.
7. ALL INTERIOR WALLS AT EXISTING CONDITIONS WHERE GWB WAS REMOVED ARE TYPE "N" UNLESS NOTED OTHERWISE.
8. ALL EXISTING EXTERIOR WINDOWS TO REMAIN UNO.
9. SEE DEMOLITION PLANS FOR EXISTING ELEMENTS TO REMAIN, INCLUDING BUT NOT LIMITED TO DOORS, WALLS AND WINDOWS.
10. PAINT ALL DOORS IDENTIFIED AS EXISTING TO REMAIN.
11. PAINT EXPOSED CONCRETE WALLS WITH IN BUT NOT LIMITED TO SERVICE ELEVATOR LOBBY, WASTE ROOM, AND WALLS OF STAIRS TO TINSLEY.
12. PAINT ALL EXPOSED GYPSUM WALL BOARDS AS IDENTIFIED AS EXISTING TO REMAIN.
13. REFER TO TYPICAL STAIR AND RAILING DETAILS. SEE D5 & E5/A-611.

KEYNOTES - SHEET

A7	FEC1 - FIRE EXTINGUISHER CABINET - SEMI RECESSED
A10	BLACK-OUT ROLLER SHADES AT WINDOWS REQUIRED IN THIS ROOM. (BASE BID)
A12	PROVIDE ABUSE RESISTANT GYPSUM BOARD WALLBOARD ALL FOUR WALLS UNLESS NOTED OTHERWISE
A13	PROVIDE MOLD AND MOISTURE RESISTANT GYPSUM WALL BOARD ALL FOUR WALLS
A71	WHEN LOCATING FLOOR DRAIN, COORDINATE WITH STRUCTURE BELOW
A107	AREA IDENTIFIED AS POSSIBLE FUTURE CONVERSION INTO OFFICES
A109	3 TIER MILLWORK LOCKERS 10 51 16 ON 4" BASE
A110	NEW RATED SHAFT ACESS DOORS (24"W x 36"H)
A113	PROVIDE 5/8" GYPSUM WALL BOARD ABOVE AND BELOW EXISTING WINDOWS. NEW METAL STUD FRAMING ABOVE WINDOW.
A115	WIRE MESH PARTITION WITH LOCKABLE DOORS 10 22 13
A118	METAL SHELF ON STANDARDS AND BRACKETS - MOUNTED 60" AFF
A119	CENTER WALL ON COLUMN LINE
A120	CENTER WINDOW ON WALL
A121	CENTER WALL ON WINDOW MULLION. SEE E1 AND E2/A-730
A122	SAFETY SHOWER - SEE AQ DRAWINGS
A123	TWO (2) ROWS OF CONTIUNOUS BLOCKING REQUIRED AROUND ROOM
A124	MARKER BOARD MB-4
A127	WALL OFF SET FROM CURTAIN WALL, SEE DETAIL E3/A-730
A151	EXISTING PIPING RISERS TO REMAIN
A153	POWER/DATA FLOOR BOX. SEE ELECTRICAL.



A1 FLOOR PLAN - NINTH FLOOR
1/8" = 1'-0"

4/19/2018 5:15:57 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
FLOOR PLAN - NINTH FLOOR

Scale
1/8" = 1'-0"

Sheet Number
A-109

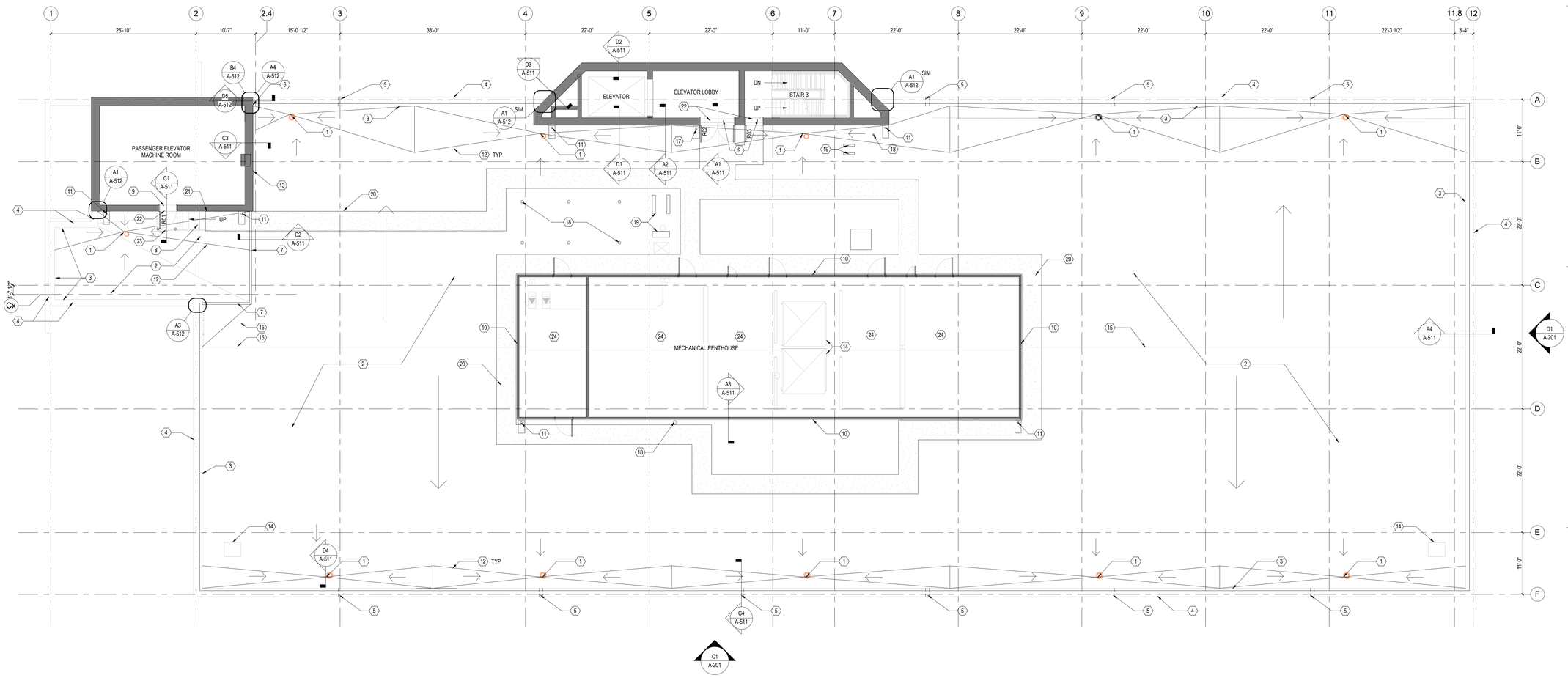
Project Status
CONSTRUCTION DOCUMENTS

ROOF PLAN GENERAL NOTES

1. ALL ROOFING SCOPE SHOWN ON THIS SHEET IS AN ALTERNATE. BASE BID TO INCLUDE NO ROOFING SCOPE AND ALL EXISTING ROOF TOP EQUIPMENT TO REMAIN IN PLACE.
2. ALL PENETRATIONS WHETHER SHOWN OR NOT ARE TO RECEIVE TPO ROOF FLASHING.
3. REFER TO SHEETS A-511 AND A-512 FOR TYPICAL ROOF DETAILS.
4. COORDINATE FINAL LOCATION OF WALKWAS WITH EXISTING EQUIPMENT AND ACCESS REQUIREMENTS.

SHEET SPECIFIC NOTES

1. INSTALL NEW ROOF DRAIN AT EXISTING ROOF DRAIN LOCATION. SEE PLUMBING FOR MORE INFORMATION.
2. INSTALL NEW ROOFING ON EXISTING SLOPING CONCRETE SLAB. SLOPE OF EXISTING CONCRETE STRUCTURAL SLAB IS APPROXIMATELY 1/4"/12".
3. INSTALL NEW ROOFING ON BACKSIDE OF THE EXISTING CONCRETE PARAPET WALL. TYPICAL ALONG ENTIRE PARAPET WALL.
4. INSTALL NEW COPING AT TOP OF EXISTING CONCRETE PARAPET WALL.
5. INSTALL NEW SCUPPER AND REQUIRED BLOCKING IN EXISTING SCUPPER OPENING.
6. INSTALL NEW COPING ENDWALL FLASHING.
7. INSTALL NEW PREFABRICATED ROOF CURBS AT EXISTING EXPANSION JOINT.
8. PAINT EXISTING METAL STAIR AND RAILINGS.
9. INSTALL NEW EXTERIOR DOOR THRESHOLD. REFER TO SPECIFICATION SECTION 08 71 00.
10. INSTALL NEW ROOFING ON EXISTING CONCRETE CURB, AND WALL OF MECHANICAL PENTHOUSE. TYPICAL AT BASE OF MECHANICAL PENTHOUSE WALLS.
11. INSTALL NEW SPLASH BLOCK AT THE ROOF.
12. INSTALL NEW CRICKETS TO DIRECT WATER TO ROOF DRAINS.
13. INSTALL NEW PREFABRICATED ROOF CURB AT EXISTING EXPANSION JOINT.
14. REMOVE AND RE-INSTALL EXISTING VENT HOOD. INSTALL NEW PREFABRICATED ROOF CURBS TO ALLOW FOR RE-ROOFING.
15. HIGH POINT OF ROOF.
16. INSTALL NEW EXPANSION JOINT AT PARAPET.
17. INSTALL NEW SPLASH BLOCK AT CANOPY.
18. INSTALL NEW ROOF FLASHING AT ROOF PENETRATION - TYPICAL.
19. REMOVE AND RE-INSTALL EXISTING EQUIPMENT. INSTALL NEW PREFABRICATED ROOF PEDESTALS TO ALLOW FOR RE-ROOFING.
20. WALKWAY - TYPICAL.
21. PATCH BRICK VENEER AT PENETRATION WHERE EXISTING STAIR SUPPORT STEEL WAS REMOVED AT EXISTING BRICK WALL.
22. RE-PAINT EXISTING DOOR AND FRAME AND PROVIDE NEW WEATHERSTRIPPING.
23. INSTALL NEW PAINTED STEEL STAIR SUPPORT POSTS TO SUPPORT THE EXISTING STEEL STAIR LANDING (3" DIA. SCH. 40 PIPE COLUMNS WITH 1/2" X 6" X 6" PLATE WITH (2) 1/2" DIA. EXPANSION BOLTS TO MOUNT INTO THE EXISTING CONCRETE ROOF DECK. PROVIDE 4" X 4" X 3/8" PLATES TO CAP TOP OF PIPE COLUMNS AND PROVIDE 3/16" FILLET WELDS TO UNDERSIDE OF EXISTING LANDING STRINGER). INSTALL ROOF FLASHINGS AT ROOF PENETRATIONS.
24. PROVIDE WATERPROOF FLOOR COATING



A1 LOW ROOF PLAN
1/8" = 1'-0"

4/19/2018 5:06:01 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
LOW ROOF PLAN

Scale
1/8" = 1'-0"

Sheet Number
A-110

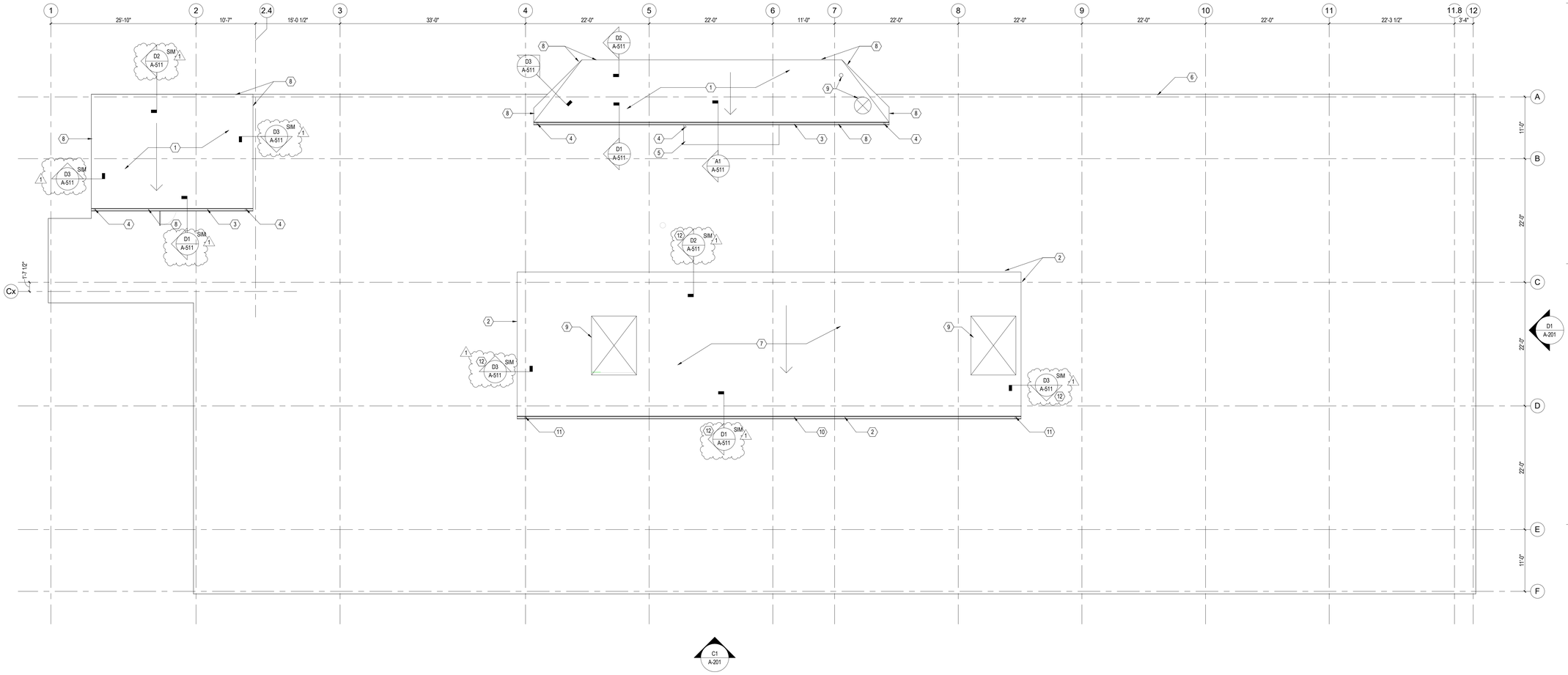
Project Status
CONSTRUCTION DOCUMENTS

ROOF PLAN GENERAL NOTES

1. ALL ROOFING SCOPE SHOWN ON THIS SHEET IS AN ALTERNATE. BASE BID TO INCLUDE NO ROOFING SCOPE AND ALL EXISTING ROOF TOP EQUIPMENT TO REMAIN IN PLACE.
2. ALL PENETRATIONS WHETHER SHOWN OR NOT ARE TO RECEIVE TPO ROOF FLASHING.
3. REFER TO SHEETS A-511 AND A-512 FOR TYPICAL ROOF DETAILS.
4. COORDINATE FINAL LOCATION OF WALKWAS WITH EXISTING EQUIPMENT AND ACCESS REQUIREMENTS.

SHEET SPECIFIC NOTES

1. INSTALL NEW ROOFING.
2. INSTALL NEW ROOFING EDGE METAL ON EXISTING MECHANICAL PENTHOUSE ROOF.
3. INSTALL NEW GUTTER 4" WIDE BY 3" HIGH
4. INSTALL NEW DOWNSPOUT 2" BY 3"
5. PAINT EXISTING CANOPY, HANGER RODS AND BRACKETS.
6. OUTLINE OF LOW ROOF BELOW.
7. INSTALL NEW ROOFING ON EXISTING ROOF STRUCTURE.
8. INSTALL NEW ROOFING EDGE METAL.
9. INSTALL NEW ROOF FLASHING AT ROOF PENETRATION - TYPICAL.
10. INSTALL NEW GUTTER 5" WIDE BY 3 3/4" HIGH.
11. INSTALL NEW DOWNSPOUT 3" BY 4".
12. SEE SPECIFICATION SECTION 07 54 25, ROOF SYSTEM 2



A1 HIGH ROOF PLAN
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
HIGH ROOF PLAN

Scale
1/8" = 1'-0"

Sheet Number
A-111

Project Status
CONSTRUCTION DOCUMENTS

4/19/2018 5:06:04 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

KEYNOTES - REFLECTED CEILING PLAN

C4	CEILING MOUNTED EMERGENCY SHOWER STATION
C5	EXPOSED TO STRUCTURE ABOVE
C6	EQUIPMENT PENETRATES CEILING. REFER TO EQUIPMENT FOR SIZE OF OPENING
C9	FACETED PAINTED GYPSUM CEILING
C11	FUME EXTRACTOR ARM
C12	1" WIDE GAP IN CEILING FOR EXPANSION
C13	CENTER LIGHT FIXTURE IN AREA
C14	CENTER LIGHT FIXTURES ON ELEVATOR DOORS
C15	ROLLER SHADE (ALTERNATE)
C16	LAB UTILITY PANELS
C17	1" WIDE EXPANSION JOINT AND COVER IN WALL
C18	LINEAR SLOT DIFFUSER - SEE MECHANICAL
C19	SUSPENDED LIGHT FIXTURE - SEE ELECTRICAL
C20	CEILING SERVICE PANEL, 12"x 24"

RCP SYMBOL LEGEND

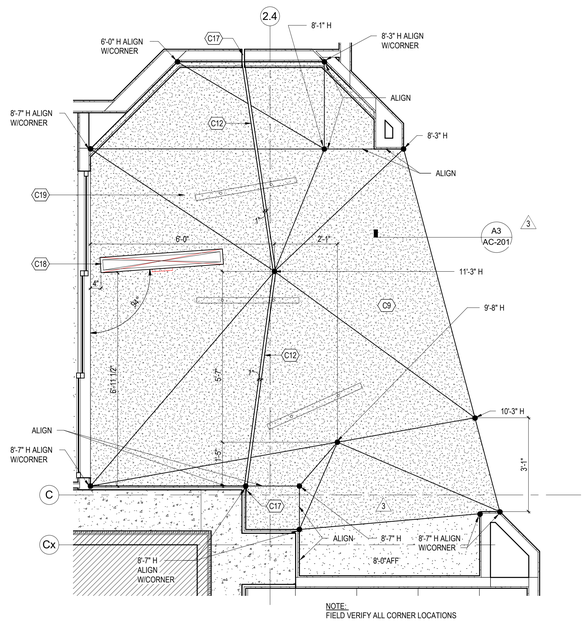
- NOT IN CONTRACT
- ACOUSTICAL TILE CEILING (24x24), ACM-1
- ACOUSTICAL TILE CEILING (24x24), ACM-2
- ACOUSTIC CEILING BAFFLES, AMC-3 - TOP BAR LOCATED AT 8'-11" AFF
- GYPSUM CEILING - PAINTED
- RECESSED OR SURFACE MOUNTED LIGHT FIXTURE
- RECESSED OR SURFACE MOUNTED LIGHT FIXTURE
- RECESSED OR SURFACE MOUNTED ROUND DOWNLIGHT LUMINAIRE
- STRIP OR TURRET LUMINAIRE, SURFACE MOUNTED
- STRIP OR TURRET LUMINAIRE, PENDANT MOUNTED
- LINEAR LUMINAIRE, PENDANT MOUNTED

ORIENTATION

- CHANDELIER, PENDANT MOUNTED TOP OF FIXURE AT 7'-2" AFF
- LINEAR LUMINAIRE, WALL MOUNTED
- EXIT LIGHT
- HVAC SUPPLY DIFFUSER
- HVAC RETURN DIFFUSER
- HVAC EXHAUST DIFFUSER
- XXX-X CEILING FINISH TAG
- LAB BENCHES AND CASEWORK BELOW
- OCCUPANCY SENSOR, SEE ELECTRICAL
- ACM-2 (2)

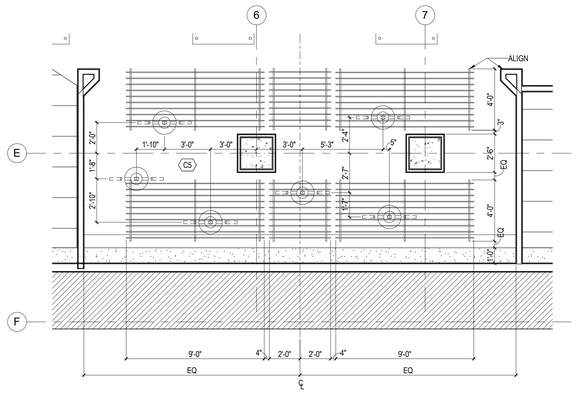
REFLECTED CEILING PLAN NOTES:

1. ALL DIMENSIONS ARE TO COLUMN CENTERLINES, CENTER OF SUSPENDED CEILING GRIDS OR FACE OF FINISHED WALLS/SOFFITS UNLESS NOTED OTHERWISE.
2. ALL GWB SOFFITS AND BULKHEADS ARE TO BE 2 INCHES BELOW ADJACENT SUSPENDED CEILING SYSTEMS, UNLESS NOTED OTHERWISE.
3. FINISHED CEILING HEIGHT IS **9'-0"** UNLESS NOTED OTHERWISE.
4. ALL ACOUSTICAL CEILING TILES SHALL BE AMC-1 UNLESS NOTED OTHERWISE.
5. ALL SUSPENSION CEILING GRIDS SHALL BE CG-1 UNLESS NOTED OTHERWISE.
6. SUSPENDED CEILING GRIDS ARE LAID OUT WITH EITHER A TILE OR A GRID AT THE CENTER OF THE ROOM IN EACH DIRECTION UNLESS NOTED OR DIMENSIONED OTHERWISE.
7. SUSPENDED CEILING TILES IN EACH ROOM ARE TO BE CONFIGURED SUCH THAT NO LESS THAN ONE-HALF A BORDER TILE EXISTS ADJACENT TO ANY ROOM WALL, UNLESS NOTED OTHERWISE.
8. CEILINGS IN ELECTRICAL ROOMS, TELEPHONE ROOMS, MECHANICAL ROOMS & OTHER SIMILAR SPACES ARE EXPOSED TO STRUCTURE ABOVE UNLESS NOTED OR SCHEDULED OTHERWISE.
9. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHT FIXTURE SPECIFIC INFORMATION.
10. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL DIFFUSER SPECIFIC INFORMATION.
11. AT ALL AREAS IDENTIFIED AS EXPOSED TO STRUCTURE ABOVE, PAINT UNDERSIDE OF STRUCTURE, DUCTS, CONDUIT, PIPES, HANGERS, ETC.

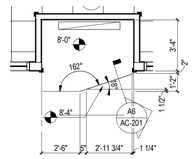


NOTE:
FIELD VERIFY ALL CORNER LOCATIONS

D1 ENLARGED RCP - COFFEE RM 802
1/2" = 1'-0"



D2 ENLARGED 8TH FLR OPEN OFFICE CEILING
1/4" = 1'-0"



D3 ENLARGED RCP - LAB ENTRY CEILING
1/4" = 1'-0"

A1 REFLECTED CEILING PLAN - EIGHTH FLOOR
1/8" = 1'-0"

4/26/2018 3:17:48 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2
3	2018-04-20	ADDENDUM #3
4	2018-04-26	ADDENDUM #4

Project Number 10062179

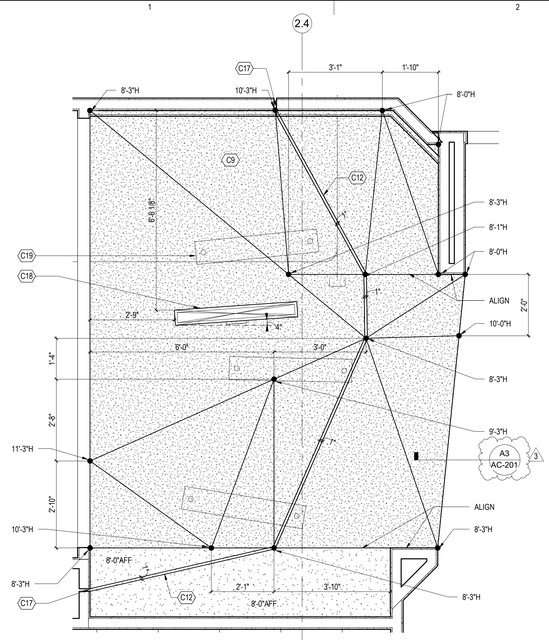
STATE of ALABAMA
JEFFERY A MINTON
26516
3/28/2018
REGISTERED ARCHITECT

Sheet Name
REFLECTED CEILING PLAN - EIGHTH FLOOR

Scale
As indicated

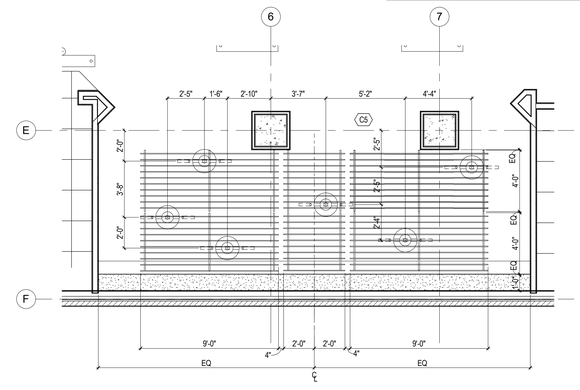
Sheet Number
AC-108

Project Status
CONSTRUCTION DOCUMENTS



D1 ENLARGED RCP - COFFEE RM

1/2" = 1'-0"



D2 ENLARGED 9TH FLR OPEN OFFICE CEILING

1/4" = 1'-0"

KEYNOTES - REFLECTED CEILING PLAN

C4	CEILING MOUNTED EMERGENCY SHOWER STATION
C5	EXPOSED TO STRUCTURE ABOVE
C6	EQUIPMENT PENETRATES CEILING. REFER TO EQUIPMENT FOR SIZE OF OPENING
C8	IN THE LABS WITHIN THIS IDENIFIED AREA, PROVIDE METAL DRIP PANS ABOVE THE CEILING THE ENTIRE FOOTPRINT OF ROOM AND DRAIN TO NEARBY STORM PIPING. REFER TO SECTION 05 50 10
C9	FACETED PAINTED GYPSUM CEILING
C11	FUME EXTRACTOR ARM
C12	1" WIDE GAP IN CEILING FOR EXPANSION
C14	CENTER LIGHT FIXTURES ON ELEVATOR DOORS
C15	ROLLER SHADE (ALTERNATE)
C16	LAB UTILITY PANELS
C17	1" WIDE EXPANSION JOINT AND COVER IN WALL
C18	LINEAR SLOT DIFFUSER - SEE MECHANICAL
C19	SUSPENDED LIGHT FIXTURE - SEE ELECTRICAL
C20	CEILING SERVICE PANEL, 12"x 24"
C21	PROVIDE BLACK OUT ROLLER SHADES AS PART OF BASE BID

RCP SYMBOL LEGEND

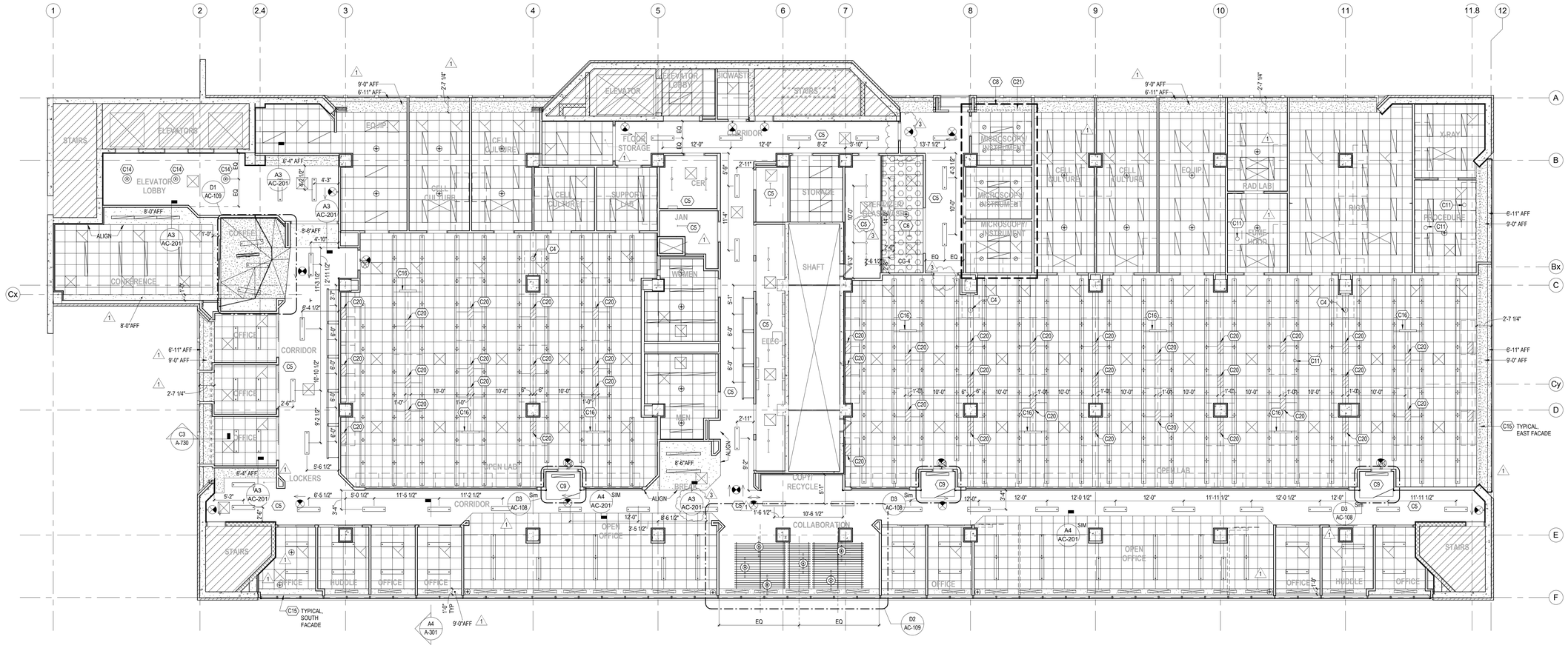
- NOT IN CONTRACT
- ACOUSTICAL TILE CEILING (24x24), ACM-1
- ACOUSTICAL TILE CEILING (24x24), ACM-2
- ACOUSTIC CEILING BAFFLES, AMC-3 - TOP BAR LOCATED AT 8'-11" AFF
- GYPSUM CEILING - PAINTED
- RECESSED OR SURFACE MOUNTED LIGHT FIXTURE
- RECESSED OR SURFACE MOUNTED LIGHT FIXTURE
- RECESSED OR SURFACE MOUNTED ROUND DOWNLIGHT LUMINAIRE
- STRIP OR TURRET LUMINAIRE, SURFACE MOUNTED
- STRIP OR TURRET LUMINAIRE, PENDANT MOUNTED
- LINEAR LUMINAIRE, PENDANT MOUNTED

ORIENTATION

- CHANDELIER, PENDANT MOUNTED TOP OF FIXURE AT 7'-2" AFF
- LINEAR LUMINAIRE, WALL MOUNTED
- EXIT LIGHT
- HVAC SUPPLY DIFFUSER
- HVAC RETURN DIFFUSER
- HVAC EXHAUST DIFFUSER
- XXX-X CEILING FINISH TAG
- LAB BENCHES AND CASEWORK BELOW
- OCCUPANCY SENSOR, SEE ELECTRICAL
- ACM-2 2

REFLECTED CEILING PLAN NOTES:

1. ALL DIMENSIONS ARE TO COLUMN CENTERLINES, CENTER OF SUSPENDED CEILING GRIDS OR FACE OF FINISHED WALLS/SOFFITS UNLESS NOTED OTHERWISE.
2. ALL GWB SOFFITS AND BULKHEADS ARE TO BE 2 INCHES BELOW ADJACENT SUSPENDED CEILING SYSTEMS, UNLESS NOTED OTHERWISE.
3. FINISHED CEILING HEIGHT IS **9'-0"** UNLESS NOTED OTHERWISE.
4. ALL ACOUSTICAL CEILING TILES SHALL BE AMC-1 UNLESS NOTED OTHERWISE.
5. ALL SUSPENSION CEILING GRIDS SHALL BE CG-1 UNLESS NOTED OTHERWISE.
6. SUSPENDED CEILING GRIDS ARE LAID OUT WITH EITHER A TILE OR A GRID AT THE CENTER OF THE ROOM IN EACH DIRECTION UNLESS NOTED OR DIMENSIONED OTHERWISE.
7. SUSPENDED CEILING TILES IN EACH ROOM ARE TO BE CONFIGURED SUCH THAT NO LESS THAN ONE-HALF A BORDER TILE EXISTS ADJACENT TO ANY ROOM WALL, UNLESS NOTED OTHERWISE.
8. CEILINGS IN ELECTRICAL ROOMS, TELEPHONE ROOMS, MECHANICAL ROOMS & OTHER SIMILAR SPACES ARE EXPOSED TO STRUCTURE ABOVE UNLESS NOTED OR SCHEDULED OTHERWISE.
9. REFER TO ELECTRICAL DRAWINGS FOR ADDITIONAL LIGHT FIXTURE SPECIFIC INFORMATION.
10. REFER TO MECHANICAL DRAWINGS FOR ADDITIONAL DIFFUSER SPECIFIC INFORMATION.
11. AT ALL AREAS IDENTIFIED AS EXPOSED TO STRUCTURE ABOVE, PAINT UNDERSIDE OF STRUCTURE, DUCTS, CONDUIT, PIPES, HANGERS, ETC.



A1 REFLECTED CEILING PLAN - NINTH FLOOR

1/8" = 1'-0"

4/19/2018 5:23:04 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2
3	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
2816
3/28/2018
REGISTERED ARCHITECT

Sheet Name

REFLECTED CEILING PLAN - NINTH FLOOR

Scale

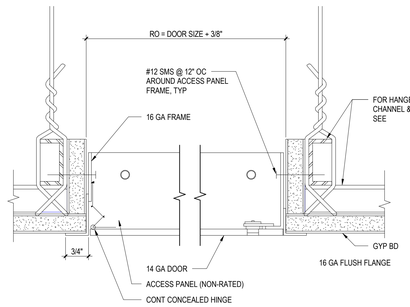
As indicated

Sheet Number

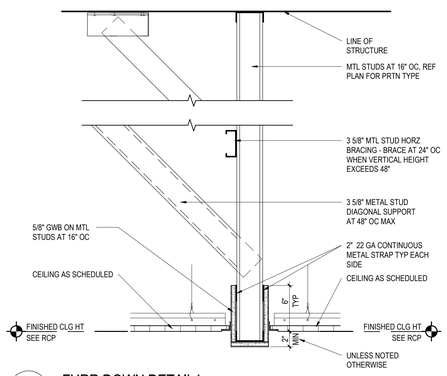
AC-109

Project Status

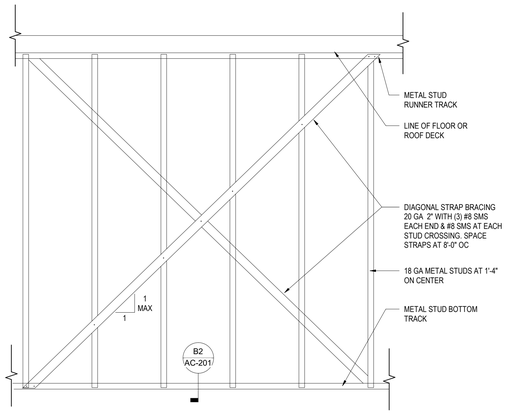
CONSTRUCTION DOCUMENTS



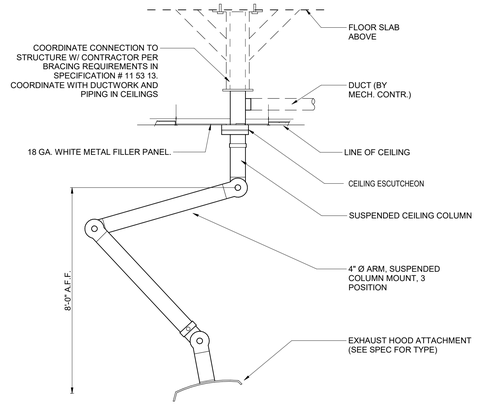
B1 CEILING ACCESS PANEL
6" = 1'-0"



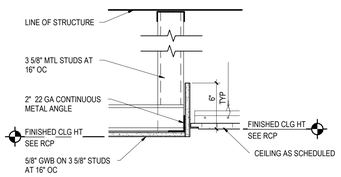
B2 FURR DOWN DETAIL1
1 1/2" = 1'-0"



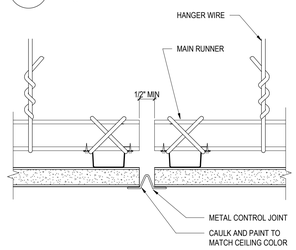
B3 TYPICAL SOFFIT FRAMING ELEVATION
3" = 1'-0"



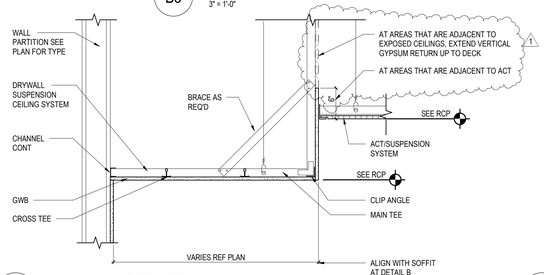
B5 FUME EXTRACTOR ARM - FEA
3/4" = 1'-0"



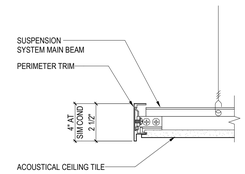
A1 GYPSUM BOARD/ACT TRANSITION DETAIL
1 1/2" = 1'-0"



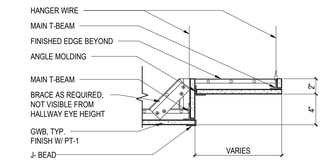
A2 GYPSUM BOARD CEILING CONTROL JOINT
6" = 1'-0"



A3 CEILING SOFFIT DETAIL
1" = 1'-0"



A4 PERIMETER CONDITON OF FLOATING ACT
3" = 1'-0"



A6 LAB ENTRY CEILING DETAIL
1 1/2" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
TYPICAL CEILING DETAILS

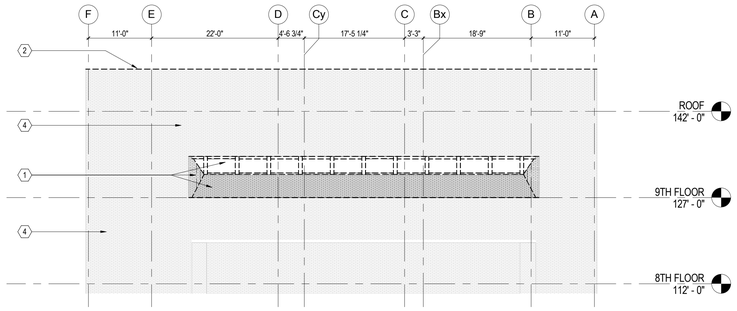
Scale
As indicated

Sheet Number
AC-201

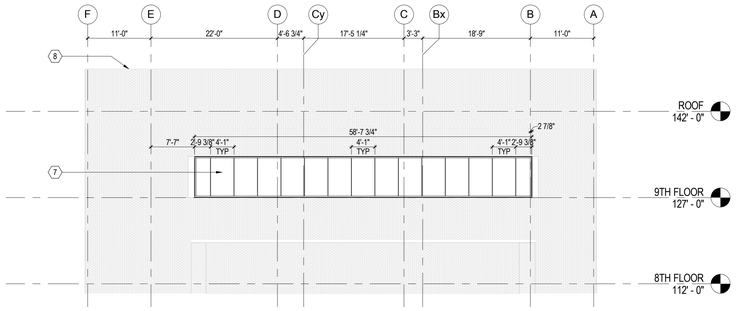
Project Status
CONSTRUCTION DOCUMENTS

4/19/2018 5:06:47 PM

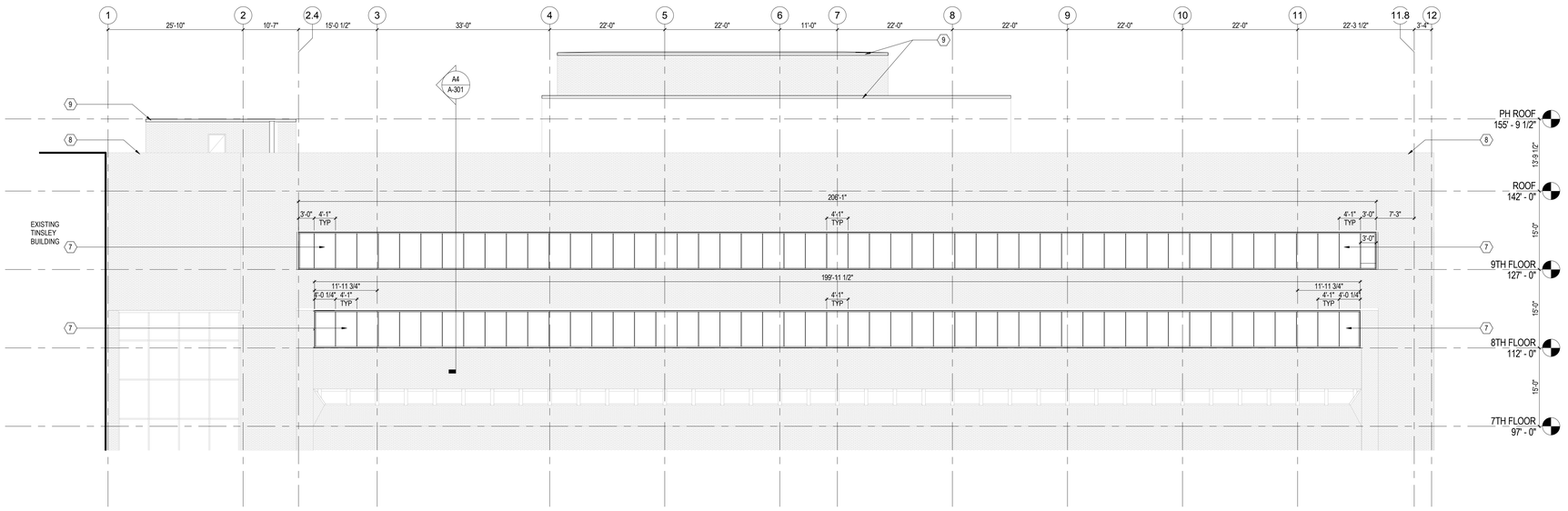
C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt



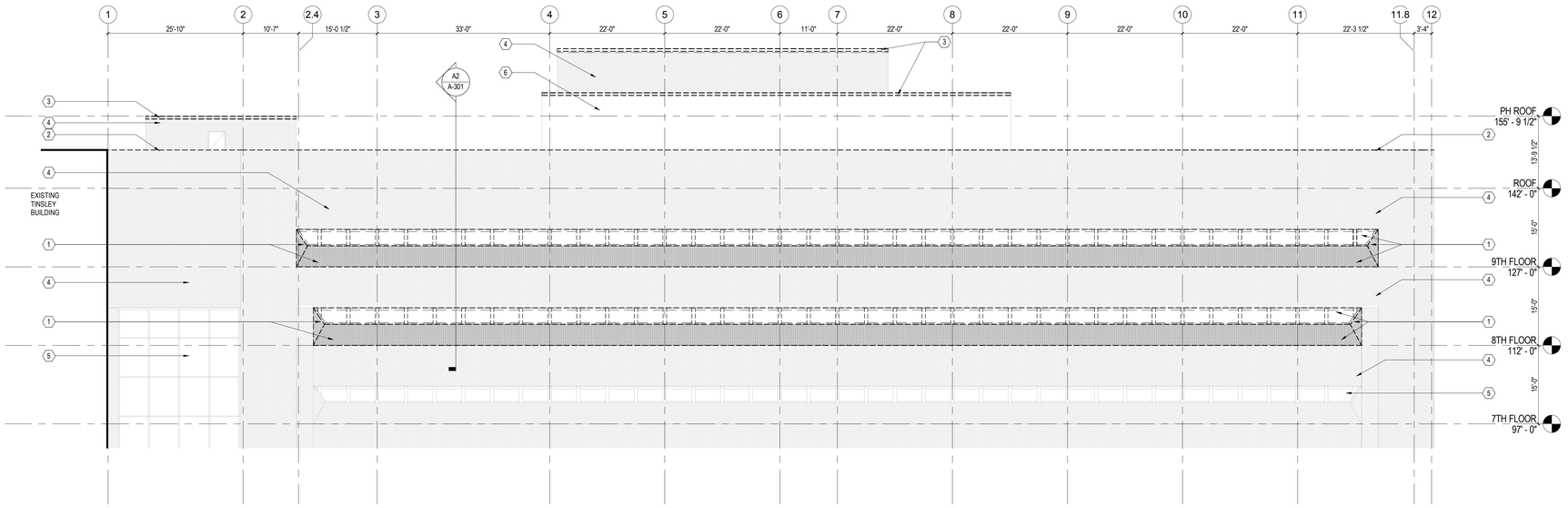
D1 EAST ELEVATION DEMOLITION
3/32" = 1'-0"



D3 EAST ELEVATION
3/32" = 1'-0"



C1 SOUTH ELEVATION
3/32" = 1'-0"



A1 SOUTH ELEVATION DEMOLITION
3/32" = 1'-0"

GENERAL SHEET NOTES:

1. ALL ROOFING SCOPE SHOWN ON THIS SHEET IS AN ALTERNATE. BASE BID TO INCLUDE NO ROOFING SCOPE AND ALL EXISTING ROOF TOP EQUIPMENT TO REMAIN IN PLACE.

SHEET SPECIFIC NOTES

1. DEMOLISH EXISTING ANGLED EXTERIOR WINDOWS AND PORTION OF BRICK WALL.
2. DEMOLISH EXISTING COPING ON TOP OF PARAPET WALL, TYP.
3. DEMOLISH EXISTING GUTTER, TYP.
4. EXISTING BRICK WALL TO REMAIN.
5. EXISTING GLAZING TO REMAIN.
6. EXISTING MECHANICAL PENTHOUSE WALL TO REMAIN.
7. INSTALL NEW CURTAIN WALL SYSTEM.
8. INSTALL NEW COPING ON TOP OF EXISTING PARAPET WALL, TYP.
9. INSTALL ROOFING EDGE METAL.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
EXTERIOR ELEVATIONS

Scale
As indicated

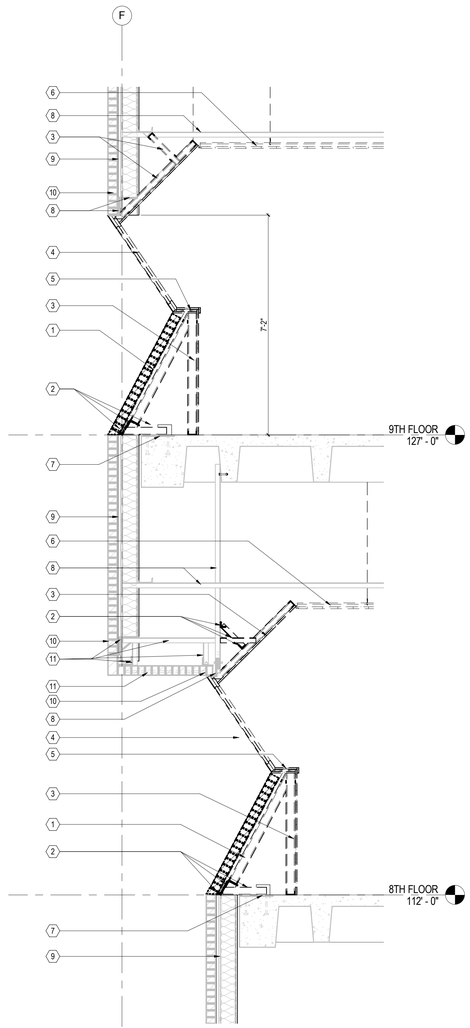
Sheet Number
A-201

Project Status
CONSTRUCTION DOCUMENTS

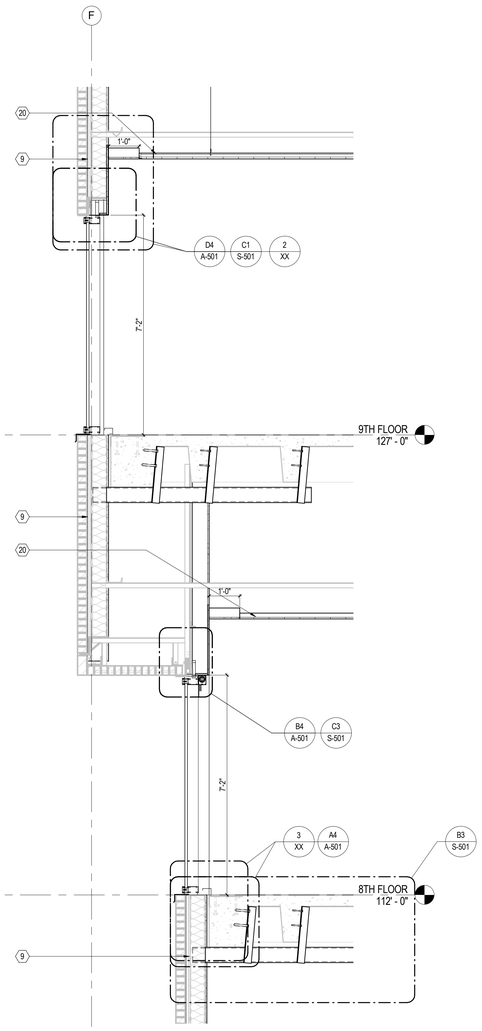
3/28/2018 3:37:43 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_MANGUS.rvt

SHEET SPECIFIC NOTES A-301

1. DEMOLISH SLOPED EXISTING BRICK SET IN MORTAR ON CORRUGATED METAL, 3 5/8" METAL STUD AND BATT INSULATION DOWN TO FLOOR LINE. VERTICAL BRICK VENEER AND WALL ASSEMBLY BELOW FLOOR LINE TO REMAIN AND SHOULD NOT BE DAMAGED. MAINTAIN INTEGRITY OF WALL TO REMAIN DURING DEMOLITION.
2. DEMOLISH EXISTING STRUCTURAL STEEL ANGLES.
3. DEMOLISH EXISTING 3 5/8" METAL STUD AND 5/8" GYPSUM BOARD.
4. DEMOLISH EXISTING EXTERIOR WINDOW FRAME, AND INSULATED GLASS.
5. DEMOLISH EXISTING INTERIOR SILL AND BLOCKING.
6. DEMOLISH EXISTING CEILING, TYP.
7. EXISTING STEEL PLATE TO REMAIN.
8. EXISTING STEEL ANGLE TO REMAIN.
9. EXISTING BRICK WALL ASSEMBLY TO REMAIN.
10. EXISTING METAL FLASHING, WEATHER BARRIER, AND BRICK WALL ASSEMBLY TO REMAIN.
11. EXISTING BRICK SOFFIT ASSEMBLY TO REMAIN.



A2 TYPICAL WINDOW DEMOLITION WALL SECTION
1/2" = 1'-0" REFERENCING SHEET: A-201



A4 TYPICAL WINDOW REPLACEMENT WALL SECTION
1/2" = 1'-0" REFERENCING SHEET: A-108

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

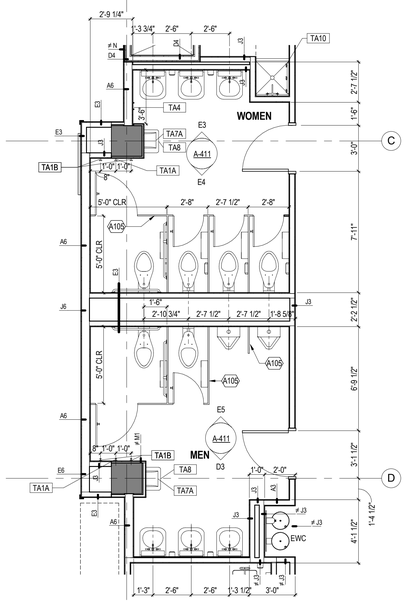
Sheet Name
WALL SECTIONS

Scale
As indicated

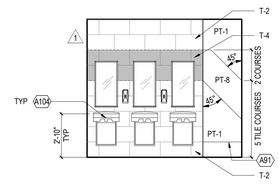
Sheet Number
A-301

Project Status
CONSTRUCTION DOCUMENTS

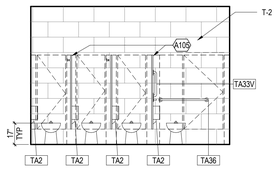
3/28/2018 6:36:01 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_MANGUS.rvt



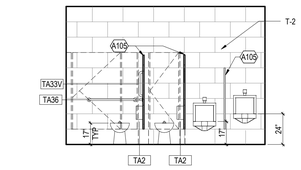
D1 ENLARGED TOILET ROOMS PLAN
1/4" = 1'-0"



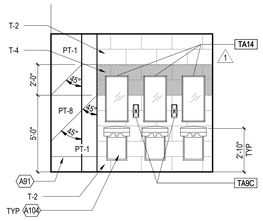
E3 TYP WOMEN'S TOILET - NORTH ELEVATION
1/4" = 1'-0"



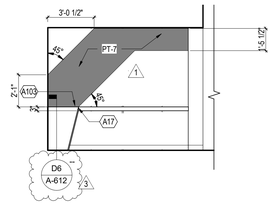
E4 TYP WOMEN'S TOILET - SOUTH ELEVATION
1/4" = 1'-0"



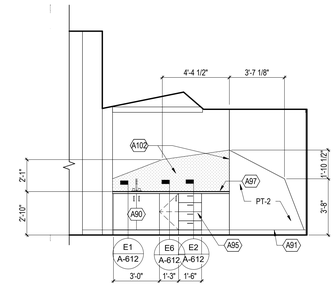
E5 TYP MEN'S TOILET - NORTH ELEVATION
1/4" = 1'-0"



D3 TYP MEN'S TOILET - SOUTH ELEVATION
1/4" = 1'-0"



D4 8TH FLOOR COFFEE - NORTH ELEVATION
1/4" = 1'-0"



D5 8TH FLOOR COFFEE - SOUTH ELEVATION
1/4" = 1'-0"

FLOOR PLAN LEGEND

- NEW WALL AND DOOR
- EXISTING WALL AND DOOR TO REMAIN
- NOT IN CONTRACT
- ARCHITECTURAL CASEWORK. SEE SHEET A-411, A-412 AND A-621. FOR CASEWORK NOT NOTED AS SUCH SEE AQ DRAWINGS

INTERIOR ELEVATION LEGEND

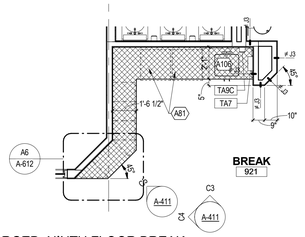
TA-XX — TOILET ACCESSORIES TAG. REFER TO SHEET A-730

ENLARGED FLOOR PLAN GENERAL NOTES

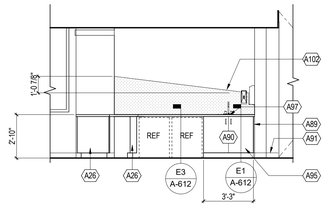
1. ALL DIMENSIONS ARE TO COLUMN CENTERLINES OR FACE OF FINISHED WALLS OR SURFACES UNLESS NOTED OTHERWISE.
2. REFER TO DEMOLITION DRAWINGS FOR WORK REQUIRED IN ADVANCE OF CONSTRUCTION AND COORDINATE ACCORDINGLY.
3. ALL DOOR FRAMES ARE TO BE INSTALLED 4" AWAY OF ADJACENT PERPENDICULAR WALLS UNLESS NOTED OTHERWISE.
4. REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL FIRE / SMOKE RATING REQUIREMENTS.
5. ALL NON-LOAD BEARING INTERIOR WALLS ARE TYPE "A3" WITH BATT INSULATION UNLESS NOTED OTHERWISE.
6. ALL INTERIOR WALLS AROUND EXISTING CONCRETE COLUMNS ARE TO BE "K1" WITHOUT BATT INSULATION UNLESS NOTED OTHERWISE.
7. ALL INTERIOR WALLS AT EXISTING CONDITIONS WHERE GWB WAS REMOVED ARE TYPE "N" UNLESS NOTED OTHERWISE.
8. ALL EXISTING EXTERIOR WINDOWS TO REMAIN UNO.
9. SEE DEMOLITION PLANS FOR EXISTING ELEMENTS TO REAMIN, INCLUDING BUT NOT LIMITED TO DOORS, WALLS AND WINDOWS.
10. FOR ADDITIONAL TOILET ACCESSORIES LOCATIONS, SEE INTERIOR ELEVATIONS AND A-730

KEYNOTES - SHEET

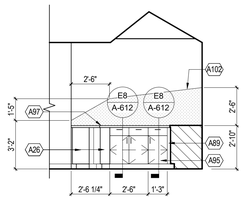
A7	FEC1 - FIRE EXTINGUISHER CABINET - SEMI RECESSED
A17	START WALL PAINT ACCENT WHERE TABLE HIT WALL
A26	UNDER COUNTER FILLER CABINETRY
A31	START WALL PAINT ACCESS WHERE EDGE OF COUNTER HITS WALL
A35	SUPPORT ANGLE W/ 1" SLOTTED HOLE IN ANGLE RUNNING EAST TO WEST. LINE INDICATES WALL TO RECIEVE SLOTTED ANGLE. SEE DETAIL B6/A-612
A68	EJ-1 - FLOOR EXPANSION JOINT COVER - PROVIDE FIRE BARRIER SYSTEM IN EXISTING JOINT, 07 95 13
A69	EJ-1W - WALL EXPANSION JOINT COVER, 07 95 13
A81	UNDERCOUNTER REFRIGERATOR ADA (NO ICE)
A89	FILLER PANEL
A90	DOORS OPEN FOR ADA ACCESS
A91	SCHEDULED BASE
A93	FINISHED END PANEL (PL)
A95	PLAM BASE CABINETS (PL-1)
A96	GLASS MARKER BOARD (MB-1)
A97	QUARTZ COUNTERTOP (EQF-1)
A99	UPHOLSTERED SEAT ON PLAM BASE (PL-1 & FB-1) 2
A100	PLAM COUNTERTOP
A101	FORBO TACK BOARD (TB-1 & TB-2)
A102	BACK PAINTED GLASS BACKSPLASH (T-3)
A103	QUARTZ COUNTERTOP 3" THICK (WATERFALL EDGE) EQF-1
A104	LAVATORY PROTECTIVE SHIELD, REFER TO PLUMBING DWGS
A105	SOLID PHENOLIC TOILET PARTITIONS, FLOOR MOUNTED- 10 21 11
A106	SINK EQUIPPED WITH WATER BOTTLE DISPENSER
A108	FLOOR COPIER, NIC
A114	PROVIDE 5/8" GYPSUM WALL BOARD TO EXISTING METAL STUD FRAMING
A125	CONTRACTOR TO COORDINATE LOCATION OF SCREENS WITH OWNER, SUPPLY NECESSARY BLOCKING FOR MONITORS



C1 ENLARGED NINTH FLOOR BREAK
1/4" = 1'-0"



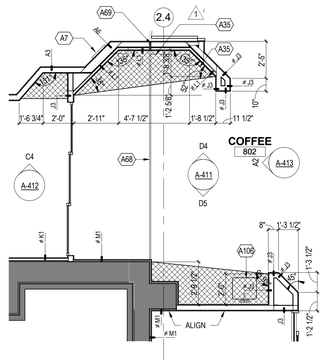
C3 9TH FLR BREAK - NORTH ELEVATION
1/4" = 1'-0"



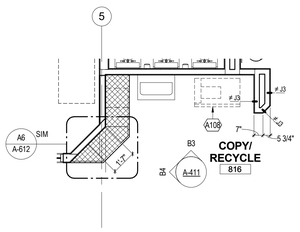
C4 9TH FLOOR BREAK - WEST ELEVATION
1/4" = 1'-0"



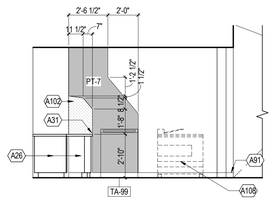
C5 9TH FLR BREAK - NORTH WEST ELEVATION
1/4" = 1'-0"



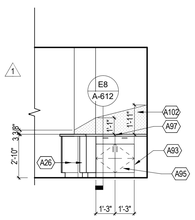
C6 ENLARGED 8TH FLOOR COFFEE AREA
1/4" = 1'-0"



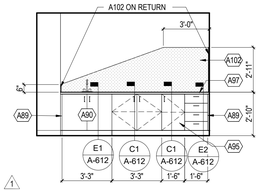
B1 ENLARGED EIGHTH FLOOR BREAK/ RECYLCE AREA
1/4" = 1'-0"



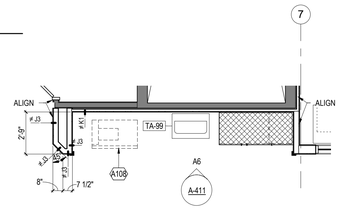
B3 8TH FLOOR COPY/ RECYCLE - NORTH ELEVATION
1/4" = 1'-0"



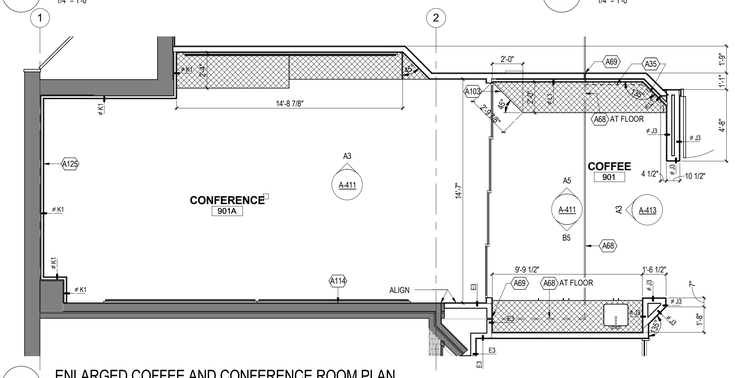
B4 8TH FLOOR COPY/ RECYCLE - WEST ELEVATION
1/4" = 1'-0"



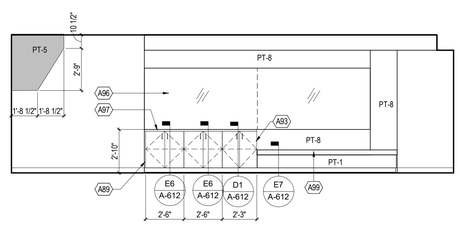
B5 COFFEE - SOUTH ELEVATION
1/4" = 1'-0"



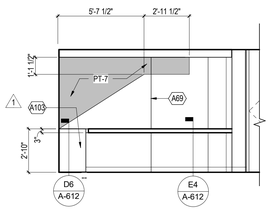
B6 ENLARGED COPY/ RECYCLE AREA
1/4" = 1'-0"



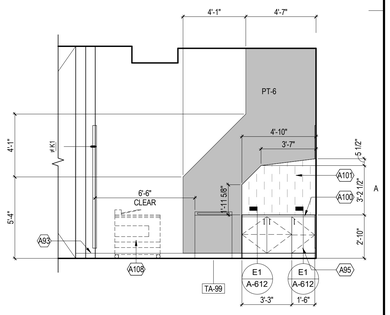
A1 ENLARGED COFFEE AND CONFERENCE ROOM PLAN
1/4" = 1'-0"



A3 9TH FLR CONFERENCE ROOM - NORTH ELEVATION
1/4" = 1'-0"



A5 COFFEE - NORTH ELEVATION
1/4" = 1'-0"



A6 COPY/ RECYCLE AREA - NORTH ELEVATION
1/4" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2
3	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

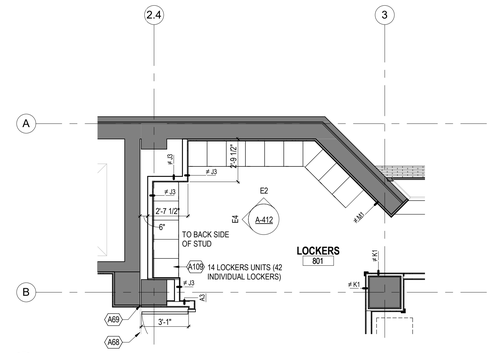
Sheet Name
ENLARGED PLANS AND ELEVATIONS

Scale
As indicated

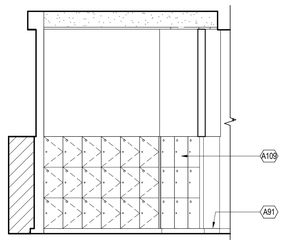
Sheet Number
A-411

Project Status
CONSTRUCTION DOCUMENTS

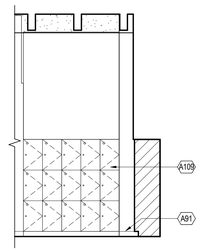
4/19/2018 5:06:15 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt



E1 ENLARGED PLAN - LOCKERS IN ROOM 801
1/4" = 1'-0"



E2 LOCKERS RM 801- NORTH ELEVATION
1/4" = 1'-0"



E4 LOCKERS RM 801 - WEST ELEVATION
1/4" = 1'-0"

FLOOR PLAN LEGEND

NEW WALL AND DOOR

EXISTING WALL AND DOOR TO REMAIN

NOT IN CONTRACT

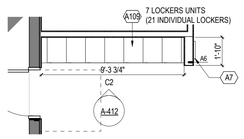
ARCHITECTURAL CASEWORK, SEE SHEET A-411, A-412 AND A-621. FOR CASEWORK NOT NOTED AS SUCH SEE AQ DRAWINGS

ENLARGED FLOOR PLAN GENERAL NOTES

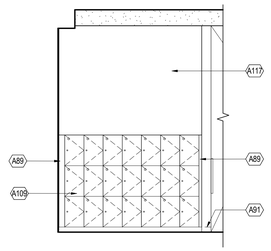
1. ALL DIMENSIONS ARE TO COLUMN CENTERLINES OR FACE OF FINISHED WALLS OR SURFACES UNLESS NOTED OTHERWISE.
2. REFER TO DEMOLITION DRAWINGS FOR WORK REQUIRED IN ADVANCE OF CONSTRUCTION AND COORDINATE ACCORDINGLY.
3. ALL DOOR FRAMES ARE TO BE INSTALLED 4" AWAY OF ADJACENT PERPENDICULAR WALLS UNLESS NOTED OTHERWISE.
4. REFER TO LIFE SAFETY DRAWINGS FOR ADDITIONAL FIRE / SMOKE RATING REQUIREMENTS.
5. ALL NON-LOAD BEARING INTERIOR WALLS ARE TYPE "A3" WITH BATT INSULATION UNLESS NOTED OTHERWISE.
6. ALL INTERIOR WALLS AROUND EXISTING CONCRETE COLUMNS ARE TO BE "K1" WITHOUT BATT INSULATION UNLESS NOTED OTHERWISE.
7. ALL INTERIOR WALLS AT EXISTING CONDITIONS WHERE GWB WAS REMOVED ARE TYPE "N" UNLESS NOTED OTHERWISE.
8. ALL EXISTING EXTERIOR WINDOWS TO REMAIN UNO.
9. SEE DEMOLITION PLANS FOR EXISTING ELEMENTS TO REAMIN, INCLUDING BUT NOT LIMITED TO DOORS, WALLS AND WINDOWS.
10. FOR ADDITIONAL TOILET ACCESSORIES LOCATIONS, SEE INTERIOR ELEVATIONS AND A-730

KEYNOTES - SHEET

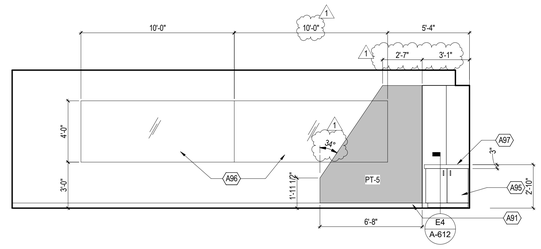
A7	FEC1 - FIRE EXTINGUISHER CABINET - SEMI RECESSED
A17	START WALL PAINT ACCENT WHERE TABLE HIT WALL
A68	EJ-1 - FLOOR EXPANSION JOINT COVER - PROVIDE FIRE BARRIER SYSTEM IN EXISTING JOINT, 07 95 13
A69	EJ-1W - WALL EXPANSION JOINT COVER, 07 95 13
A89	FILLER PANEL
A91	SCHEDULED BASE
A95	PLAM BASE CABINETS (PL-1)
A96	GLASS MARKER BOARD (MB-1)
A97	QUARTZ COUNTERTOP (EQF-1)
A109	3 TIER MILLWORK LOCKERS 10 51 16 ON 4" BASE
A117	GYPSUM BOARD SOFFIT OVER LOCKERS CONTINUES UP TO STRUCTURE ABOVE
A121	CENTER WALL ON WINDOW MULLION. SEE E1 AND E2/A-730



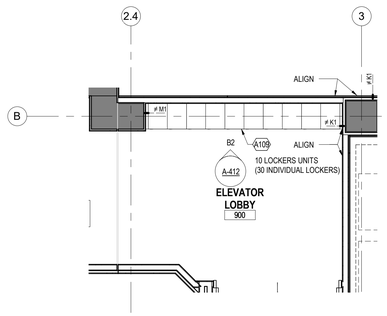
C1 ENLARGED PLAN - LOCKERS IN CORRIDOR 899S
1/4" = 1'-0"



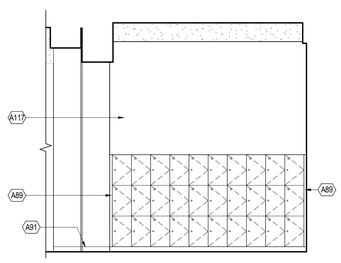
C2 LOCKERS IN RM 899S - NORTH ELEVATION
1/4" = 1'-0"



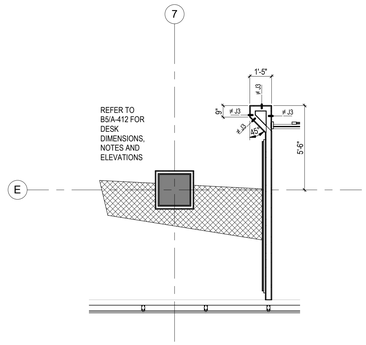
C4 8TH FLR CONFERENCE ROOM - NORTH ELEVATION
1/4" = 1'-0"



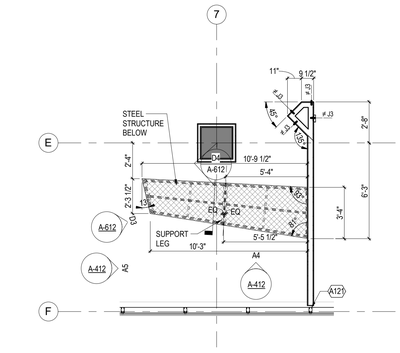
B1 ENLARGED PLAN - LOCKERS IN ELEVATOR LOBBY 900
1/4" = 1'-0"



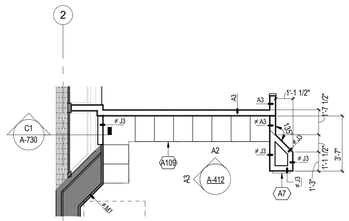
B2 LOCKERS IN RM 900 - NORTH ELEVATION
1/4" = 1'-0"



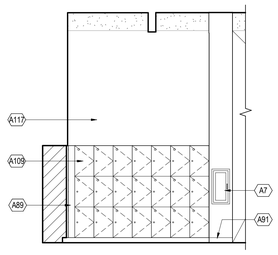
B4 ENLARGED COLLABORATION TABLE PLAN - 8TH FLOOR
1/4" = 1'-0"



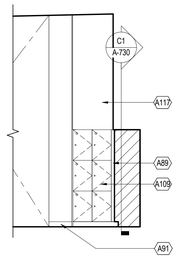
B5 ENLARGED COLLABORATION TABLE PLAN - 9TH FLOOR
1/4" = 1'-0"



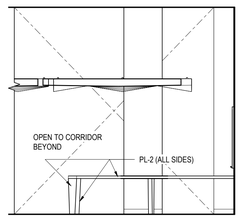
A1 ENLARGED PLAN - LOCKERS IN ROOM 909
1/4" = 1'-0"



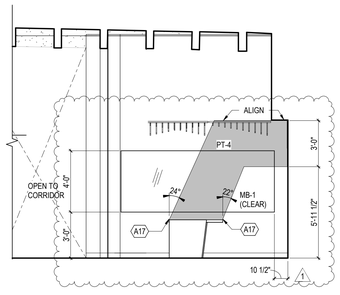
A2 LOCKERS IN RM 909 - NORTH ELEVATION
1/4" = 1'-0"



A3 LOCKERS IN RM 909 - WEST ELEVATION
1/4" = 1'-0"



A4 COLLABORATION TABLE - NORTH ELEVATION
1/4" = 1'-0"



A5 COLLABORATION TABLE - EAST ELEVATION
1/4" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
ENLARGED PLANS AND ELEVATIONS

Scale
As indicated

Sheet Number
A-412

Project Status
CONSTRUCTION DOCUMENTS

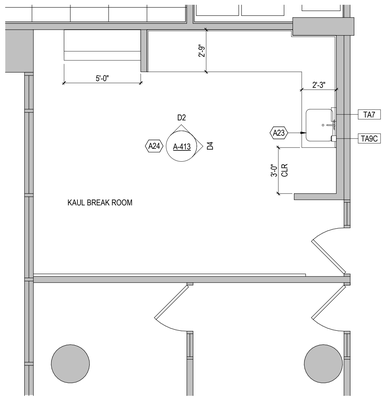
4/5/2018 3:11:20 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

GENERAL NOTES

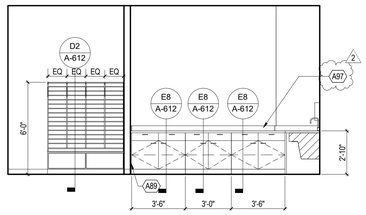
1. GENERAL NOTES

KEYNOTES - SHEET

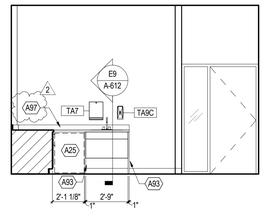
A7	FEC1 - FIRE EXTINGUISHER CABINET - SEMI RECESSED
A23	S-3, SEE PLUMBING FIXTURE SCHEDULE. RECONNECT TO EXISTING PLUMBING SERVICES
A24	EXISTING EQUIPMENT INCLUDING BUT NOT LIMITED TO REFRIGERATORS, ICE MAKERS, ETC SHALL BE EXISTING TO REMAIN IN THIS ROOM
A25	VERIFY DIMENSIONS OF EXISTING ICE MACHINE WITH ARCHITECT. SINK CASEWORK MAY NEED ADJUST ACCORDINLY.
A89	FILLER PANEL
A93	FINISHED END PANEL (PL)
A97	QUARTZ COUNTERTOP (EQF-1)



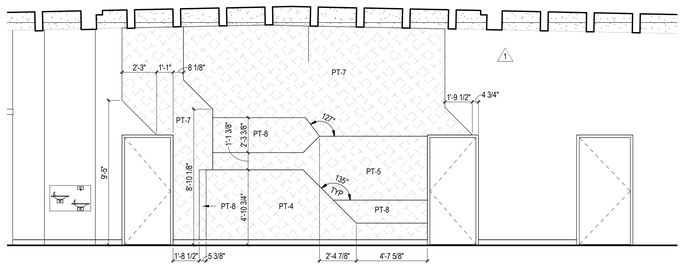
D1 ENLARGED KAUL EIGHTH FLOOR BREAK ROOM PLAN
1/4" = 1'-0"



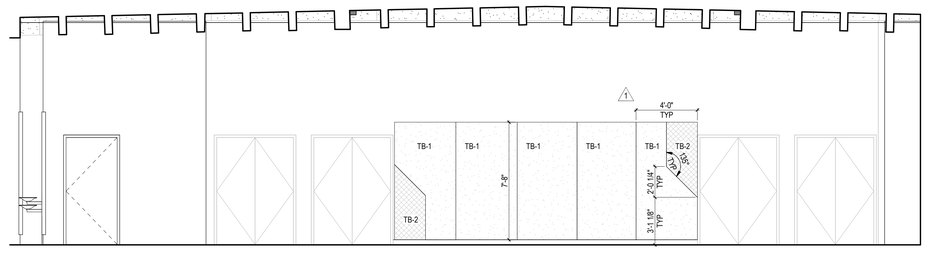
D2 KAUL BREAKROOM - NORTH ELEVATION
1/4" = 1'-0"



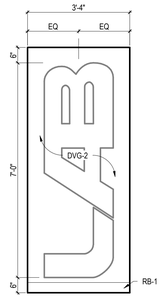
D4 KAUL BREAKROOM - EAST ELEVATION
1/4" = 1'-0"



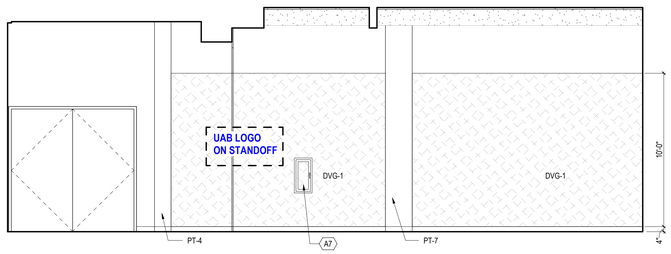
C2 RESTROOM ENTRANCE ELEVATION
1/4" = 1'-0"



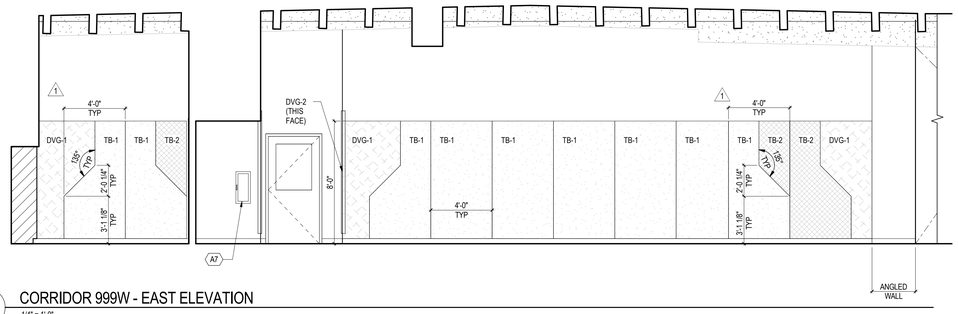
C4 COORIDOOR TACK BOARD ELEVATION
1/4" = 1'-0"



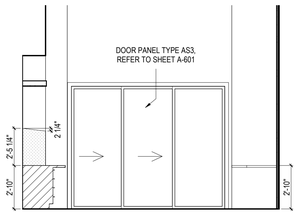
B1 DVG-2
1/2" = 1'-0"



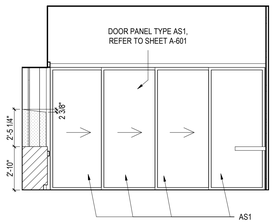
B2 9TH FLR ELEVATOR LOBBY - SOUTH ELEVATION
1/4" = 1'-0"



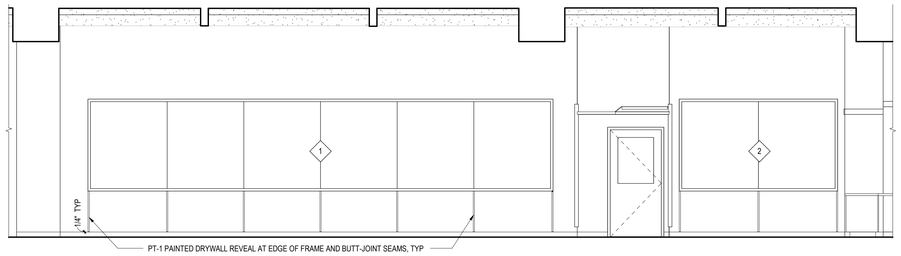
B4 CORRIDOR 999W - EAST ELEVATION
1/4" = 1'-0"



A2 8TH FLOOR COFFEE - WEST ELEVATION
1/4" = 1'-0"



A3 9TH FLOOR COFFEE - WEST ELEVATION
1/4" = 1'-0"



A4 CORRIDOR 999S - NORTH ELEVATION
1/4" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

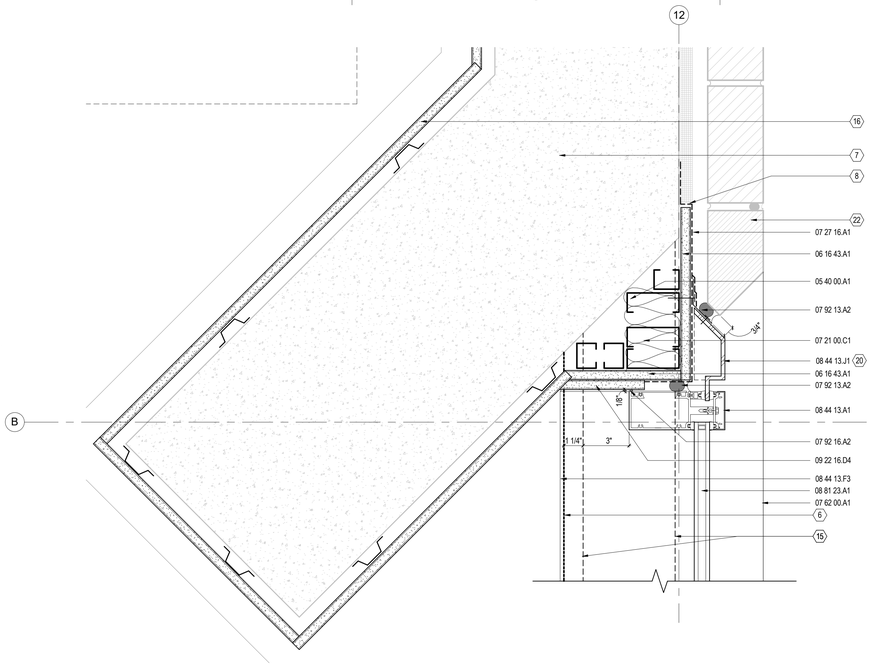
Sheet Name
ENLARGED PLAN AND INTERIOR ELEVATIONS

Scale
As indicated

Sheet Number
A-413

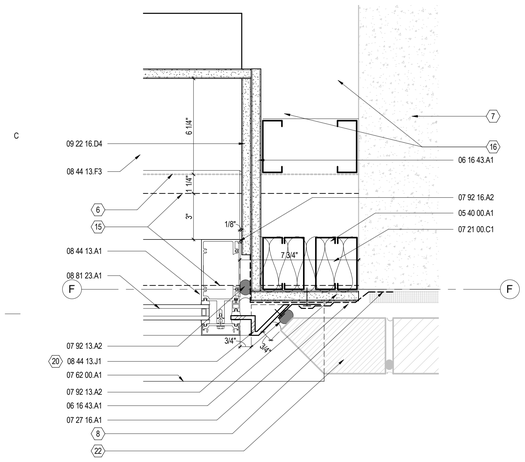
Project Status
CONSTRUCTION DOCUMENTS

4/19/2018 5:06:22 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt



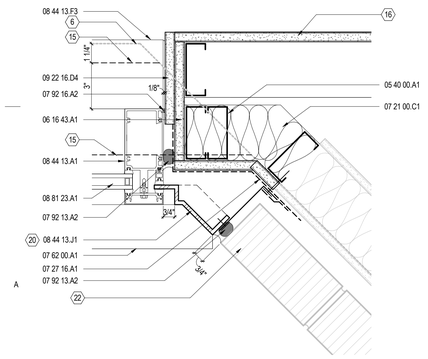
D1 PLAN DETAIL

3" = 1'-0"



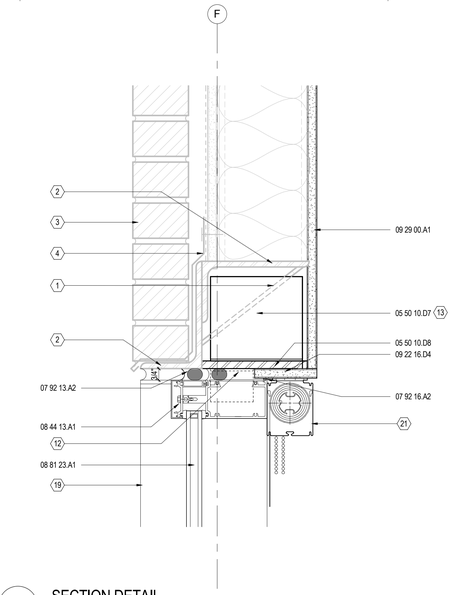
B1 PLAN DETAIL

3" = 1'-0" REFERENCING SHEET: A-109



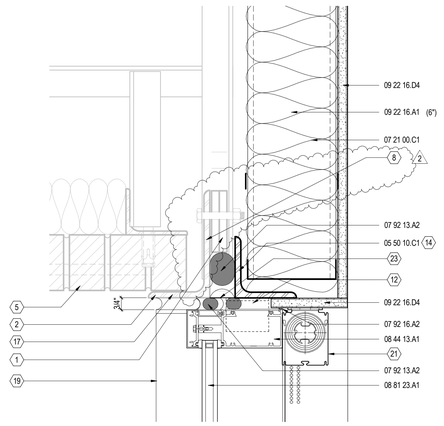
A1 PLAN DETAIL

3" = 1'-0" REFERENCING SHEET: A-108



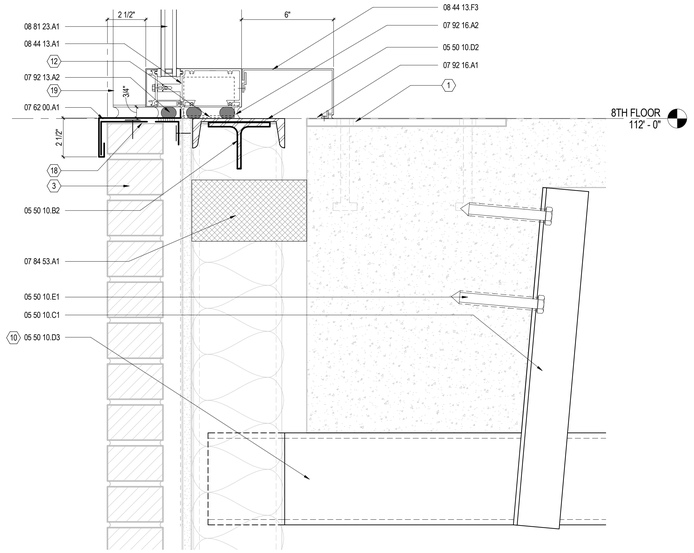
D4 SECTION DETAIL

3" = 1'-0" REFERENCING SHEET: A-107



B4 SECTION DETAIL

3" = 1'-0" REFERENCING SHEET: A-301



A4 SECTION DETAIL

3" = 1'-0" REFERENCING SHEET: A-107

KEYNOTES - REFERENCE	
05 40 00.A1	EXTERIOR STUDS
05 50 10.B2	STEEL BEAM - SEE STRUCTURAL
05 50 10.C1	SHELF ANGLE - SEE STRUCTURAL
05 50 10.D2	STEEL CHANNEL SUPPORT- SEE STRUCTURAL
05 50 10.D3	STEEL TUBE - SEE STRUCTURAL
05 50 10.D7	GUSSET PLATE - SEE STRUCTURAL
05 50 10.D8	STEEL PLATE - SEE STRUCTURAL
05 50 10.E1	ANCHOR ROD - SEE STRUCTURAL
06 16 43.A1	GYPSUM SHEATHING
07 21 00.C1	FIBERGLASS BATT INSULATION
07 27 16.A1	SELF-ADHERING AIR BARRIER - VAPOR RESISTIVE
07 62 00.A1	SHEET METAL FLASHING - GALVANIZED STEEL WITH PVDF COATING
07 84 53.A1	PERIMETER FIRE CONTAINMENT SYSTEMS
07 92 13.A2	SEALANT AND BACKER ROD
07 92 16.A1	SEALANT
07 92 16.A2	SEALANT AND BACKER ROD
08 44 13.A1	CURTAIN WALL SYSTEM 1
08 44 13.F3	EXTRUDED ALUMINUM SILL TRIM
08 44 13.J1	EXTRUDED ALUMINUM
08 81 23.A1	INSULATING GLASS UNIT (GL1)(VISION)
09 22 16.A1	METAL STUDS
09 22 16.D4	CORNER ANGLE
09 29 00.A1	GYPSUM WALLBOARD (GWB)

SHEET SPECIFIC NOTES A-501

1. EXISTING STEEL PLATE TO REMAIN.
2. EXISTING STEEL ANGLE TO REMAIN.
3. EXISTING BRICK WALL ASSEMBLY TO REMAIN.
4. EXISTING METAL FLASHING, WEATHER BARRIER, AND BRICK WALL ASSEMBLY TO REMAIN.
5. EXISTING BRICK SOFFIT ASSEMBLY TO REMAIN.
6. EXISTING EDGE OF SLAB.
7. EXISTING CONCRETE WALL TO REMAIN.
8. SEAL JOINTS BETWEEN SHELF ANGLES WITH SEALANT.
9. ADHERE FLEXIBLE MEMBRANE WALL FLASHING TO EXISTING STEEL SHELF ANGLE. APPLY LIQUID FLASHING AT EACH FASTENER.
10. NEW STRUCTURAL STEEL SUPPORT @ EACH VERTICAL STEEL CHANNEL. ATTACH TO EXISTING BEAMS AS INDICATED BY STRUCTURAL. REFER TO STRUCTURAL.
11. REMOVE EXISTING INSULATION AS REQUIRED TO ALLOW FOR AIR BARRIER INSTALLATION.
12. ATTACH NEW CURTAIN WALL ANCHOR TO NEW STRUCTURAL STEEL MEMBER (REFER TO STRUCTURAL).
13. ATTACH NEW STEEL GUSSET PLATE TO EXISTING ANGLED STEEL PLATE. FIELD VERIFY PLATE ANGLE AND LOCATION. REFER TO STRUCTURAL.
14. ATTACH NEW STEEL ANGLE TO EXISTING STEEL ANGLE. FIELD VERIFY ANGLE LOCATION. REFER TO STRUCTURAL.
15. NEW STEEL CHANNEL BELOW. SEE SECTION DETAILS FOR MORE INFORMATION.
16. INTERIOR WALL. SEE PLAN FOR WALL TYPE.
17. PROVIDE BACKER ROD AND SEALANT TO FILL GAP BETWEEN ANGLES.
18. CUT EXISTING BRICK AS REQUIRED.
19. ALUMINUM CHANNEL BEYOND.
20. ALUMINUM CHANNEL WITH LID AT TOP AND BOTTOM.
21. ROLLER SHADE, 12 24 14 - ALTERNATE
22. REMOVE AND RE-INSTALL EXISTING BRICK VENEER AS REQUIRED. REUSE EXISTING BRICK. INSTALL NEW MATCHING BRICK AS REQUIRED.
23. PROVIDE BOND BREAKER TAPE SO SEALANT JOINTS STAY SEPARATED.
23. PROVIDE BOND BREAKER TAPE SO SEALANT JOINTS STAY SEPARATED.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-26	ADDENDUM #4

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
DETAILS - EXTERIOR

Scale
As indicated

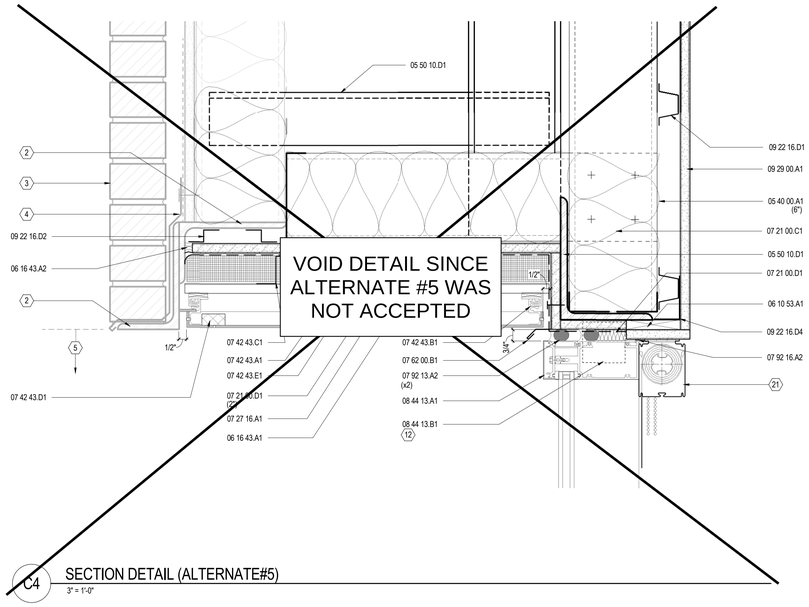
Sheet Number
A-501

Project Status
CONSTRUCTION DOCUMENTS

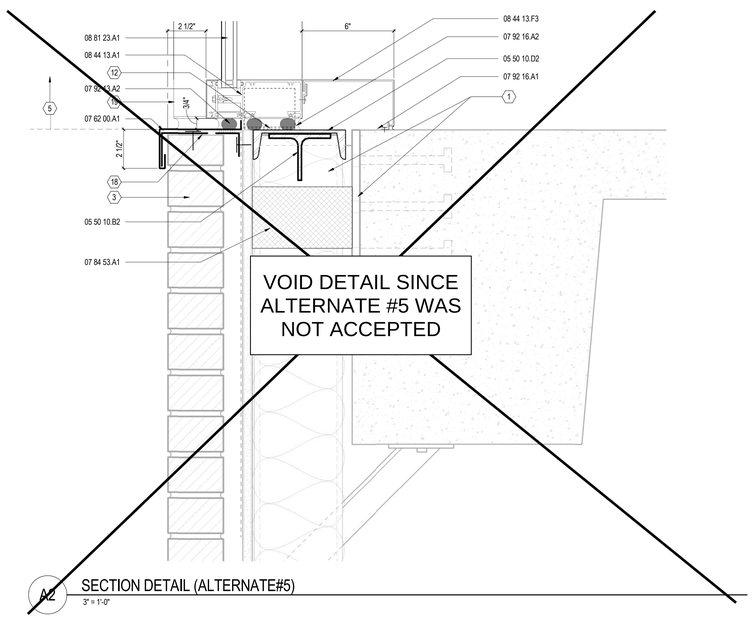
4/26/2018 3:17:26 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

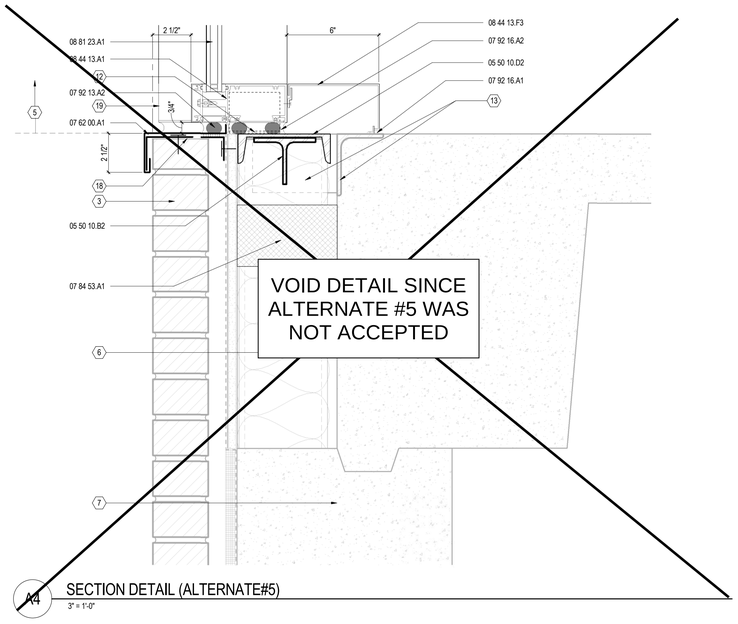
KEYNOTES - REFERENCE	
05 40 00.A1	EXTERIOR STUDS
05 50 10.B2	STEEL BEAM - SEE STRUCTURAL
05 50 10.D1	STEEL ANGLE - SEE STRUCTURAL
05 50 10.D2	STEEL CHANNEL SUPPORT- SEE STRUCTURAL
06 10 53.A1	WOOD BLOCKING
06 16 43.A1	GYPSUM SHEATHING
06 16 43.A2	SEAM SEALANT
07 21 00.C1	FIBERGLASS BATT INSULATION
07 21 00.D1	RIGID FIBER INSULATION
07 27 16.A1	SELF-ADHERING AIR BARRIER - VAPOR RESISTIVE
07 42 43.A1	ALUMINUM COMPOSITE MATERIAL (ACM) PANEL SOFFIT
07 42 43.B1	EXTRUSION
07 42 43.C1	STAND-OFF MEMBER
07 42 43.D1	WEEP
07 42 43.E1	SUBGIRTS (7/8")
07 62 00.A1	SHEET METAL FLASHING - GALVANIZED STEEL WITH PVDF COATING
07 62 00.B1	STAINLESS STEEL FLASHING
07 84 53.A1	PERIMETER FIRE CONTAINMENT SYSTEMS
07 92 13.A2	SEALANT AND BACKER ROD
07 92 16.A1	SEALANT
07 92 16.A2	SEALANT AND BACKER ROD
08 44 13.A1	CURTAIN WALL SYSTEM 1
08 44 13.B1	CURTAIN WALL ANCHOR
08 44 13.F3	EXTRUDED ALUMINUM SILL TRIM
08 81 23.A1	INSULATING GLASS UNIT (GL1)(VISION)
09 22 16.D1	FURRING CHANNELS
09 22 16.D2	Z-FURRING
09 22 16.D4	CORNER ANGLE
09 29 00.A1	GYPSUM WALLBOARD (GWB)



C4 SECTION DETAIL (ALTERNATE#5)
3" = 1'-0"



A2 SECTION DETAIL (ALTERNATE#5)
3" = 1'-0"



A4 SECTION DETAIL (ALTERNATE#5)
3" = 1'-0"

1	EXISTING STEEL PLATE AND HEADED STUD ANCHORS TO REMAIN.
2	EXISTING STEEL ANGLE TO REMAIN.
3	EXISTING BRICK WALL ASSEMBLY TO REMAIN.
4	EXISTING METAL FLASHING, WEATHER BARRIER, AND BRICK WALL ASSEMBLY TO REMAIN.
5	DEMOLISH EXISTING WINDOW, PORTION OF BRICK WALL AND FRAMING.
6	EXISTING EDGE OF SLAB.
7	EXISTING CONCRETE WALL TO REMAIN.
12	ATTACH NEW CURTAIN WALL ANCHOR TO NEW STRUCTURAL STEEL MEMBER (REFER TO STRUCTURAL).
13	EXISTING STEEL EMBED AND ANCHORS TO REMAIN.
18	CUT EXISTING BRICK AS REQUIRED.
19	ALUMINUM CHANNEL BEYOND.
21	ROLLER SHADE, 12 24 14

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
1	2018-04-26	ADDENDUM #4

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

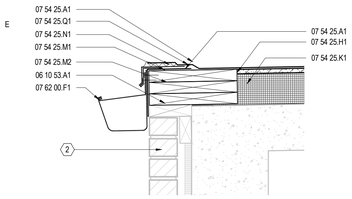
Sheet Name
DETAILS - EXTERIOR

Scale
As indicated

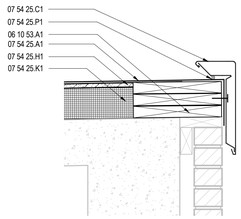
Sheet Number
A-502

Project Status
CONSTRUCTION DOCUMENTS

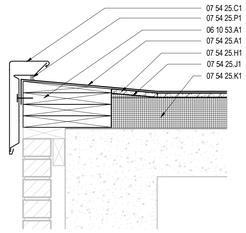
4/26/2018 3:17:41 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt



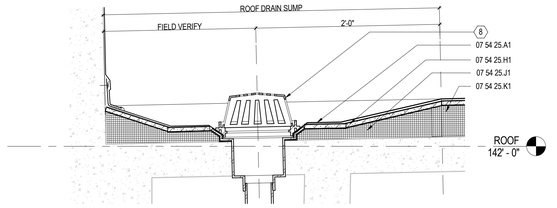
D1 SECTION DETAIL
1 1/2" = 1'-0" REFERENCING SHEET: A-110



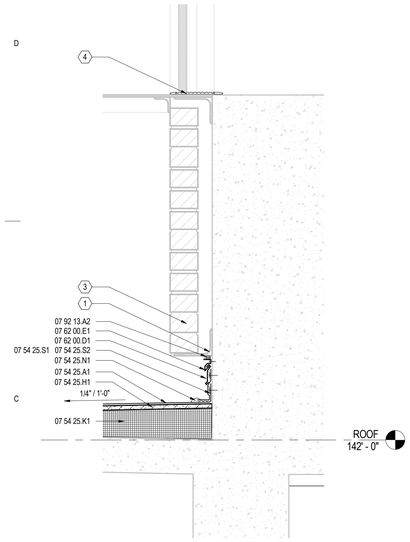
D2 SECTION DETAIL
1 1/2" = 1'-0" REFERENCING SHEET: A-110



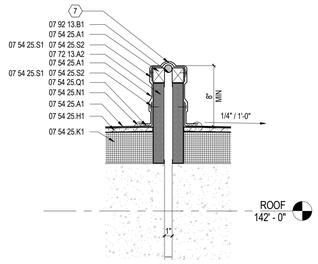
D3 SECTION DETAIL
1 1/2" = 1'-0" REFERENCING SHEET: A-110



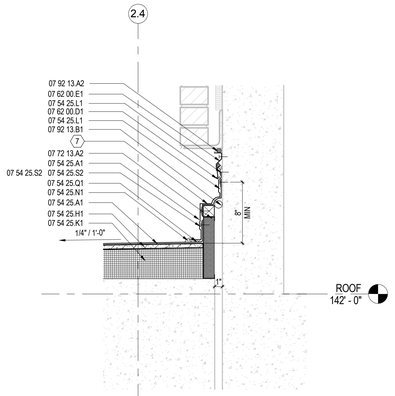
D4 ROOF DRAIN
1 1/2" = 1'-0" REFERENCING SHEET: A-110



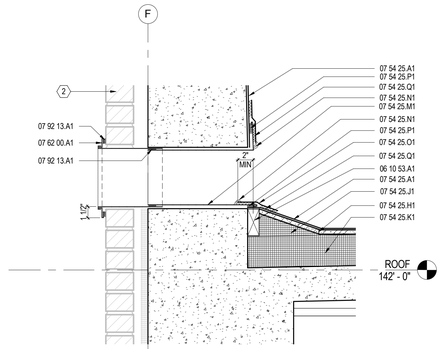
C1 SECTION DETAIL
1 1/2" = 1'-0" REFERENCING SHEET: A-110



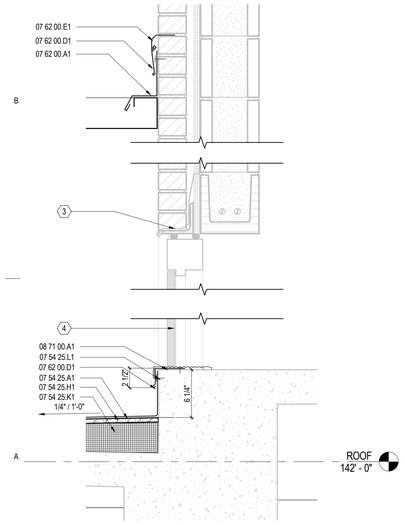
C2 SECTION DETAIL
1 1/2" = 1'-0" REFERENCING SHEET: A-110



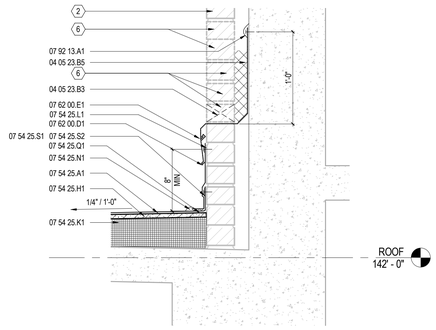
C3 SECTION DETAIL
1 1/2" = 1'-0" REFERENCING SHEET: A-110



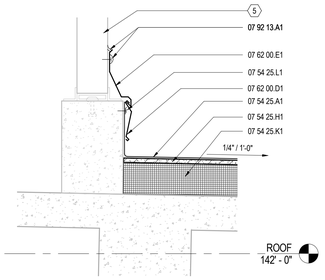
C4 SECTION DETAIL
1 1/2" = 1'-0" REFERENCING SHEET: A-110



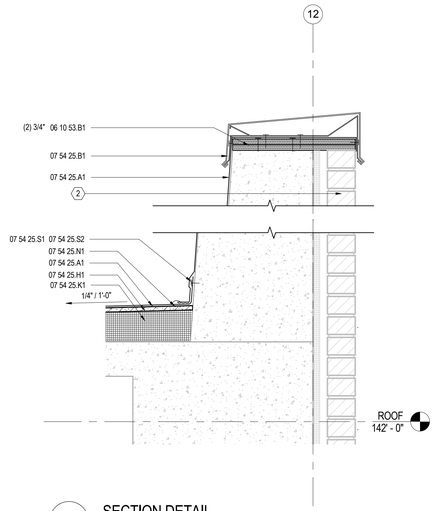
A1 SECTION DETAIL
1 1/2" = 1'-0" REFERENCING SHEET: A-110



A2 SECTION DETAIL
1 1/2" = 1'-0" REFERENCING SHEET: A-110



A3 SECTION DETAIL
1 1/2" = 1'-0" REFERENCING SHEET: A-110



A4 SECTION DETAIL
1 1/2" = 1'-0" REFERENCING SHEET: A-110

GENERAL SHEET NOTES:

1. ALL ROOFING SCOPE SHOWN ON THIS SHEET IS AN ALTERNATE. BASE BID TO INCLUDE NO ROOFING SCOPE AND ALL EXISTING ROOF TOP EQUIPMENT TO REMAIN IN PLACE.

KEYNOTES - REFERENCE

04 05 23.B3	HEAD VENT
04 05 23.B5	CAVITY PROTECTION MATERIAL
06 10 53.A1	WOOD BLOCKING
06 10 53.B1	PLYWOOD
07 54 25.A1	TPO ROOFING MEMBRANE
07 54 25.B1	COPING
07 54 25.C1	ROOF EDGE/FASCIA METAL
07 54 25.H1	COVER BOARD
07 54 25.J1	TAPERED ROOFING INSULATION
07 54 25.K1	UNIFORM THICKNESS ROOFING INSULATION
07 54 25.L1	TERMINATION BAR
07 54 25.M1	TPO COATED SHEET METAL FLASHING
07 54 25.M2	GALVANIZED CLEAT
07 54 25.N1	SEALANT
07 54 25.O1	TPO NON-REINFORED MEMBRANE
07 54 25.P1	MASTIC
07 54 25.Q1	HOT AIR-WELD
07 54 25.S1	FASTENER
07 54 25.S2	SEAM FASTENING PLATE
07 62 00.A1	SHEET METAL FLASHING - GALVANIZED STEEL WITH PVDF COATING
07 62 00.D1	COUNTERFLASHING
07 62 00.E1	FLASHING REGLET
07 62 00.F1	GUTTER
07 72 13.A2	ROOF CURB
07 92 13.A1	SEALANT
07 92 13.A2	SEALANT AND BACKER ROD
07 92 13.B1	BACKER ROD
08 71 00.A1	DOOR THRESHOLD - SEE DOOR HARDWARE SCHEDULE

GENERAL NOTES

1. ALL ROOFING SCOPE SHOWN ON THIS SHEET IS AN ALTERNATE. BASE BID TO INCLUDE NO ROOFING SCOPE AND ALL EXISTING ROOF TOP EQUIPMENT TO REMAIN IN PLACE.

SHEET SPECIFIC NOTES A-511

1. EXISTING STEEL ANGLE TO REMAIN.
2. EXISTING BRICK WALL ASSEMBLY TO REMAIN.
3. EXISTING METAL FLASHING, WEATHER BARRIER, AND BRICK WALL ASSEMBLY TO REMAIN.
4. EXISTING DOOR FRAME AND DOOR TO REMAIN. DEMOLISH AND REPLACE THRESHOLD. BED IN SEALANT.
5. EXISTING MECHANICAL PENTHOUSE WALL TO REMAIN.
6. REMOVE EXISTING BRICKS AS REQUIRED TO ALLOW FOR INSTALLATION OF STAINLESS STEEL THRU-WALL FLASHING, AND THEN RE-INSTALL EXISTING BRICKS.
7. PROVIDE DOUBLE LAYER OF TPO ROOFING MEMBRANE OVER EXPANSION JOINT.
8. ROOF DRAIN ASSEMBY (RD-1). REFER TO PLUMBING.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
19616
3/28/2018
REGISTERED ARCHITECT

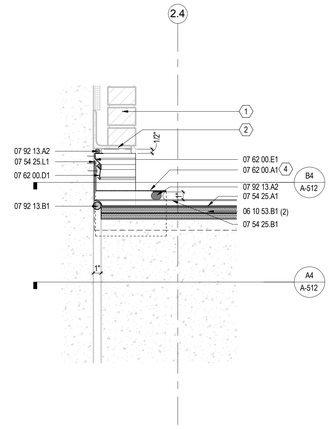
Sheet Name
DETAILS - ROOF

Scale
As indicated

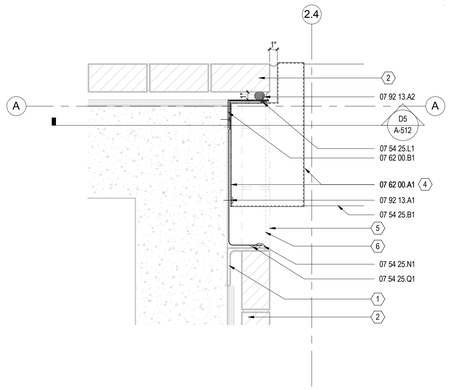
Sheet Number
A-511

Project Status
CONSTRUCTION DOCUMENTS

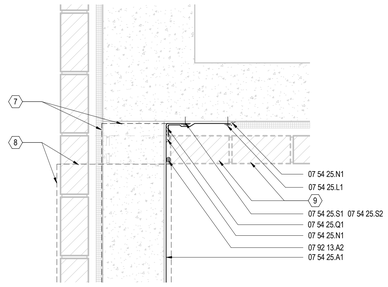
3/28/2018 3:38:28 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_MANGUS.rvt



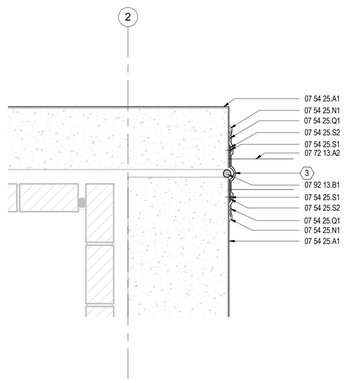
D5 SECTION DETAIL
1 1/2" = 1'-0"



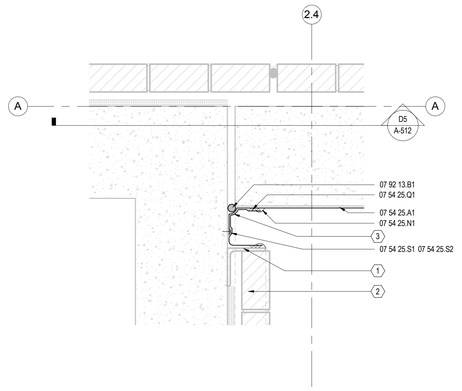
B4 PLAN DETAIL
1 1/2" = 1'-0"



A1 PLAN DETAIL
1 1/2" = 1'-0"



A3 PLAN DETAIL
1 1/2" = 1'-0"



A4 PLAN DETAIL
1 1/2" = 1'-0"

GENERAL SHEET NOTES:

1. ALL ROOFING SCOPE SHOWN ON THIS SHEET IS AN ALTERNATE. BASE BID TO INCLUDE NO ROOFING SCOPE AND ALL EXISTING ROOF TOP EQUIPMENT TO REMAIN IN PLACE.

KEYNOTES - REFERENCE

06 10 53.B1	PLYWOOD
07 54 25.A1	TPO ROOFING MEMBRANE
07 54 25.B1	COPING
07 54 25.L1	TERMINATION BAR
07 54 25.N1	SEALANT
07 54 25.Q1	HOT AIR-WELD
07 54 25.S1	FASTENER
07 54 25.S2	SEAM FASTENING PLATE
07 62 00.A1	SHEET METAL FLASHING - GALVANIZED STEEL WITH PVDF COATING
07 62 00.B1	STAINLESS STEEL FLASHING
07 62 00.D1	COUNTERFLASHING
07 62 00.E1	FLASHING REGLET
07 72 13.A2	ROOF CURB
07 92 13.A1	SEALANT
07 92 13.A2	SEALANT AND BACKER ROD
07 92 13.B1	BACKER ROD

SHEET SPECIFIC NOTES A-512

1. EXISTING STEEL ANGLE TO REMAIN.
2. EXISTING BRICK WALL ASSEMBLY TO REMAIN.
3. PROVIDE DOUBLE LAYER OF TPO ROOFING MEMBRANE OVER EXPANSION JOINT.
4. FABRICATE WELDED SHEET METAL FLASHING SADDLE TO COVER END OF COPINT. FINISH TO MATCH COPING.
5. EXISTING BRICK ABOVE TO REMAIN.
6. EXISTING SHELF ANGLE ABOVE TO REMAIN.
7. LAP TPO MEMBRANE ROOFING OVER TOP OF EXISTING PARAPET AND ONTO EXISTING CONCRETE WALL AND TERMINATE WITH TERM BAR.
8. COPING ABOVE.
9. REMOVE EXISTING BRICKS AS REQUIRED TO ALLOW FOR INSTALLATION OF TPO, AND THEN RE-INSTALL EXISTING BRICKS.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
DETAILS - ROOF

Scale
As indicated

Sheet Number
A-512

Project Status
CONSTRUCTION DOCUMENTS

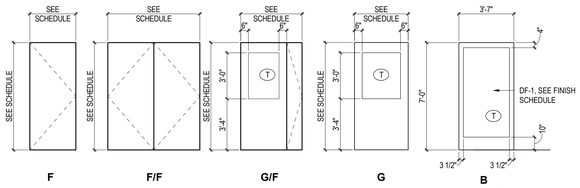
3/28/2018 3:38:33 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_MANGUS.rvt

DOOR AND FRAME SCHEDULE - EIGHTH FLOOR

IDENTIFICATION			DIMENSIONS					PANEL			FRAME				
			WIDTH												
LEVEL	ROOM NAME	DOOR NO.	W1	W2	TOTAL WIDTH	H	T	PANEL COUNT	TYPE	MATERIAL	MATERIAL	FRAME TYPE	FIRE RATING	HARDWARE SET	NOTES
8TH FLOOR	STAIRS	898NW	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1	90	18.0	CR
8TH FLOOR	ELEVATOR LOBBY	899W	3' - 0"	3' - 0"	6' - 0"	7' - 0"	1 3/4"	2	F/F	WD	HM	11	45	13.0	
8TH FLOOR	ELEVATOR LOBBY	800F	3' - 0"	3' - 0"	6' - 0"	7' - 0"	1 3/4"	2	F/F	WD	HM	11	45	13.0	
8TH FLOOR	CONFERENCE ROOM	802A	10' - 0"			8' - 0"		3	AS3	ALUM	ALUM	-	---	15.0	SEE 08 42 41
8TH FLOOR	OFFICE	804	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	4	---	17.0	SEE 08 12 16
8TH FLOOR	OFFICE	806	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	4	---	17.0	SEE 08 12 16
8TH FLOOR	OFFICE	808	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	4	---	17.0	SEE 08 12 16
8TH FLOOR	OFFICE	809	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	5	---	17.0	SEE 08 12 16
8TH FLOOR	OFFICE	813	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	5	---	17.0	SEE 08 12 16
8TH FLOOR	OFFICE	815	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	5	---	17.0	SEE 08 12 16
8TH FLOOR	OPEN LAB	818a	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	1.0	CR
8TH FLOOR	OPEN LAB	818b	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	1.0	CR
8TH FLOOR	FUME HOOD	818A	4' - 0"			7' - 0"	0"	0	--	--	HM	3	---	-	
8TH FLOOR	MICROSCOPY/ INSTRUMENT	818A1	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	6.0	
8TH FLOOR	CELL CULTURE	818B	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
8TH FLOOR	CELL CULTURE	818C	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
8TH FLOOR	SUPPORT LAB	818D	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
8TH FLOOR	MICROSCOPY/ INSTRUMENT	818D1	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	6.0	
8TH FLOOR	EQUIP.	818Ea	3' - 0"	1' - 0"	4' - 0"	7' - 0"	1 3/4"	2	G/F	WD	HM	11	---	5.0	CR
8TH FLOOR	EQUIP.	818Eb	4' - 0"			7' - 0"	0"	0	--	--	HM	3	---	-	
8TH FLOOR	OFFICE	821	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	4	---	17.0	SEE 08 12 16
8TH FLOOR	OFFICE	823	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	4	---	17.0	SEE 08 12 16
8TH FLOOR	OFFICE	823.5	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	4	---		SEE 08 12 16
8TH FLOOR	OPEN LAB	824a	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	1.0	CR
8TH FLOOR	OPEN LAB	824b	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	1.0	CR
8TH FLOOR	SMOKING MACHINE	824Aa	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	2.0	CR
8TH FLOOR	SMOKING MACHINE	824Ab	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	2.0	CR
8TH FLOOR	PROCEDURE	824B	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
8TH FLOOR	EQUIP.	824Ca	3' - 0"	1' - 0"	4' - 0"	7' - 0"	1 3/4"	2	G/F	WD	HM	11	---	5.0	CR
8TH FLOOR	EQUIP.	824Cb	4' - 0"			7' - 0"	0"	0	--	--	HM	3	---	-	
8TH FLOOR	SUPPORT LAB	824D	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
8TH FLOOR	CELL CULTURE	824E	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
8TH FLOOR	EQUIP.	824F	4' - 0"			7' - 0"	0"	0	--	--	HM	3	---	-	
8TH FLOOR	SUPPORT LAB	824G	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
8TH FLOOR	MICROSCOPY/ INSTRUMENT	824G1	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	6.0	
8TH FLOOR	PROCEDURE	824H	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
8TH FLOOR	MICROSCOPY/ INSTRUMENT	824H1	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	6.0	
8TH FLOOR	STORAGE	826	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	11.0	
8TH FLOOR	OFFICE	827	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	4	---	17.0	SEE 08 12 16
8TH FLOOR	OFFICE	827.5	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	4	---		SEE 08 12 16
8TH FLOOR	HUDDLE	829	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	4	---	17.0	SEE 08 12 16
8TH FLOOR	OFFICE	831	7' - 4"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	6	---	17.0	SEE 08 12 1
8TH FLOOR	STORAGE	840	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	9.0	
8TH FLOOR	CYL. STOR	841	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	9.0	
8TH FLOOR	MEN	844	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	14.0	
8TH FLOOR	WOMEN	846	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	14.0	
8TH FLOOR	JAN	848	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	10.0	
8TH FLOOR	CER	850	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	3.0	CR
8TH FLOOR	WASTE	851	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1	45	11.0	
8TH FLOOR	STAIRS	898E	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1	90	18.0	CR
8TH FLOOR	STAIRS	898N	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1	90	18.0	CR
8TH FLOOR	STAIRS	898W	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1	90	18.0	CR
8TH FLOOR	CORRIDOR	899NE	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1		19	
8TH FLOOR	CORRIDOR	899NW	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1		19	
8TH FLOOR	CORRIDOR	811	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	5	---	17.0	SEE 08 12 16

DOOR AND FRAME SCHEDULE - NINTH FLOOR

IDENTIFICATION			DIMENSIONS					PANEL			FRAME			HARDWARE	
			WIDTH												
LEVEL	ROOM NAME	DOOR NO.	W1	W2	TOTAL WIDTH	H	T	PANEL COUNT	TYPE	MATERIAL	MATERIAL	FRAME TYPE	FIRE RATING	GROUP	NOTES
9TH FLOOR	SERVICE	945	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	9.0	
9TH FLOOR	CONFERENCE	901A	14' - 0"			8' - 0"		4	AS1	ALUM	ALUM	-	---	15.0	SEE 08 42 41
9TH FLOOR	OFFICE	903	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	4	---	17.0	SEE 08 12 16
9TH FLOOR	OFFICE	905	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	4	---	17.0	SEE 08 12 16
9TH FLOOR	OFFICE	907	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	4	---	17.0	SEE 08 12 16
9TH FLOOR	OFFICE	910	3' - 0"			7' - 0"	1 3/4"	1	F	WD	ALUM	7	---	6.1	
9TH FLOOR	OFFICE	914	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	5	---	17.0	SEE 08 12 16
9TH FLOOR	OFFICE	916	7' - 4"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	6	---	17.0	SEE 08 12 16
9TH FLOOR	OPEN LAB	917	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	1.0	CR
9TH FLOOR	OPEN LAB	917a	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	1.0	CR
9TH FLOOR	EQUIP.	917A	4' - 0"			7' - 0"	0"	0	--	--	HM	3	---	-	
9TH FLOOR	CELL CULTURE	917B	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
9TH FLOOR	CELL CULTURE	917C	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
9TH FLOOR	CELL CULTURE	917D	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
9TH FLOOR	SUPPORT LAB	917Eb	4' - 0"			7' - 0"	0"	0	--	--	HM	3	---	-	
9TH FLOOR	SUPPORT LAB	917Ea	3' - 0"	1' - 0"	4' - 0"	7' - 0"	1 3/4"	2	G/F	WD	HM	11	---	5.0	CR
9TH FLOOR	OFFICE	922	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	5	---	17.0	SEE 08 12 16
9TH FLOOR	OFFICE	924	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	5	---	17.0	SEE 08 12 1
9TH FLOOR	OPEN LAB	925a	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	1.0	CR
9TH FLOOR	OPEN LAB	925b	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	1.0	CR
9TH FLOOR	OPEN LAB	925c	3' - 0"	1' - 0"	4' - 0"	7' - 0"	1 3/4"	2	G/F	WD	HM	11	---	5.0	CR
9TH FLOOR	CELL CULTURE	925A	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
9TH FLOOR	CELL CULTURE	925B	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
9TH FLOOR	EQUIP.	925C	4' - 0"			7' - 0"	0"	0	--	--	HM	3	---	-	
9TH FLOOR	FUME HOOD	925D	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
9TH FLOOR	RAD LAB	925D1	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
9TH FLOOR	RIGS	925E	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
9TH FLOOR	PROCEDURE	925F	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
9TH FLOOR	X-RAY	925F1	3' - 4"			7' - 0"	1 3/4"	1	G	WD	HM	1	---	6.0	
9TH FLOOR	OFFICE	928	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	5	---	17.0	SEE 08 12 16
9TH FLOOR	OFFICE	932	3' - 0"			7' - 0"	1 3/4"	1	F	WD	ALUM	7	---	6.1	
9TH FLOOR	MICROSCOPY/ INSTRUMENT	940	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	1.0	CR
9TH FLOOR	MICROSCOPY/ INSTRUMENT	942	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	1.0	CR
9TH FLOOR	MICROSCOPY/ INSTRUMENT	944	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	1.0	CR
9TH FLOOR	STERILIZER/ GLASSWASH	945a	8' - 0"			7' - 0"	1 3/4"	2	AS2	ALUM	ALUM	-	---	16.0	PP=PUSH PLATES. SEE 08 42 29
9TH FLOOR	STORAGE	946	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	9.0	
9TH FLOOR	CYL. STOR	947	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	9.0	
9TH FLOOR	BIOWASTE	948	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	11.0	
9TH FLOOR	MEN	950	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	14.0	
9TH FLOOR	WOMEN	952	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	14.0	
9TH FLOOR	JAN	954	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	10.0	
9TH FLOOR	CER	955	3' - 4"			7' - 0"	1 3/4"	1	F	WD	HM	1	---	3.0	CR
9TH FLOOR	FLOOR STORAGE	956	3' - 0"	3' - 0"	6' - 0"	7' - 0"	1 3/4"	2	F/F	WD	HM	11	---	5.0	CR
9TH FLOOR	STAIRS	998E	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1	90	18	CR
9TH FLOOR	STAIRS	998N	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1	90	18	CR
9TH FLOOR	STAIRS	998W	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1	90	18	CR
9TH FLOOR	CORRIDOR	999NE	3' - 0"			7' - 0"	1 3/4"	1	F	WD	HM	1		19	
9TH FLOOR	CORRIDOR	930	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	4	---	17.0	SEE 08 12 16
9TH FLOOR	CORRIDOR	912	7' - 9"			7' - 0"	3/4"	1	B	AL/GLASS	ALUM	5	---	17.0	SEE 08 12 16
9TH FLOOR	CORRIDOR	999W	4' - 0"	4' - 0"	8' - 0"	8' - 0"	1 3/4"	2	F/F	WD	HM	11	45	13.0	



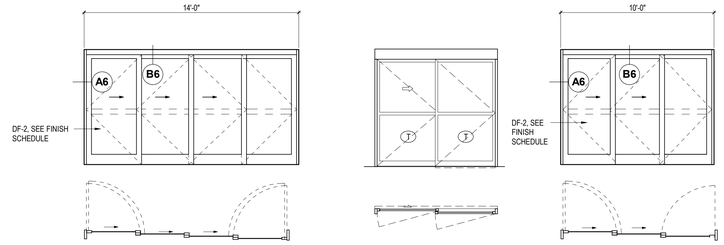
F FLUSH SINGLE

F/F FLUSH DOUBLE

G/F FLUSH UNEQUAL DOUBLE

G HALF GLASS

B SLIDING DOOR

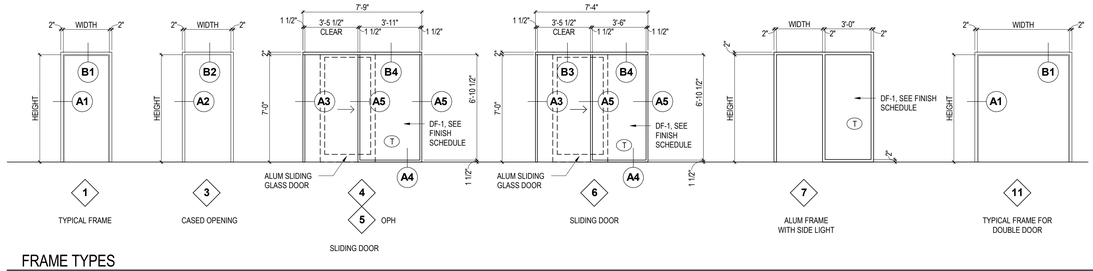


AS1 MANUAL SLIDING DOOR 4 PANEL TELESCOPIC (FULL BREAKOUT)

AS2 AUTOMATIC SLIDING DOOR 2 PANEL SINGLE SLIDE BREAK OPEN ANY POSITION

AS3 MANUAL SLIDING DOOR 3 PANEL TELESCOPIC (FULL BREAKOUT)

DOOR PANEL TYPES



FRAME TYPES

EXISTING DOOR HARDWARE UPDATE

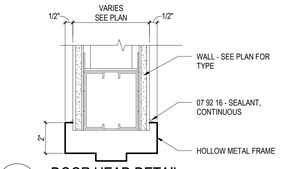
DOOR NO	ROOM	COMMENT
ELEVATOR DOORS - EIGHTH		
897WA	ELEVATOR	CR IN ELEVATOR CAB
897WB	ELEVATOR	CR IN ELEVATOR CAB
897WC	ELEVATOR	CR IN ELEVATOR CAB
897F	ELEVATOR	CR IN ELEVATOR CAB
ELEVATOR DOORS - NINTH FLOOR		
997WA	ELEVATOR	CR IN ELEVATOR CAB
997WB	ELEVATOR	CR IN ELEVATOR CAB
997WC	ELEVATOR	CR IN ELEVATOR CAB
997F	ELEVATOR	CR IN ELEVATOR CAB

GLAZING LEGEND

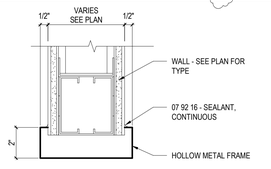
(T) TEMPERED GLAZING

GENERAL NOTES

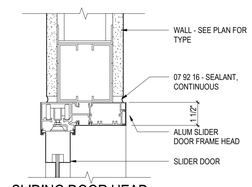
1. PROVIDE NEW CARD READER AT LOCATIONS IDENTIFIED WITH THE DESIGNATION "CR"



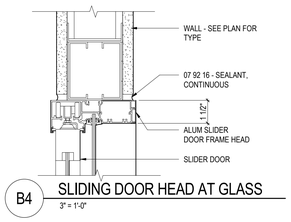
B1 DOOR HEAD DETAIL
3" = 1'-0"



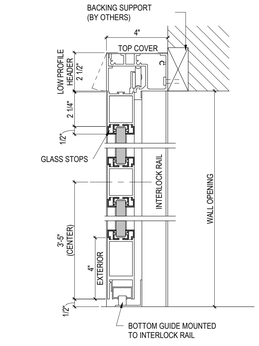
B2 CASED OPENING HEAD DETAIL
3" = 1'-0"



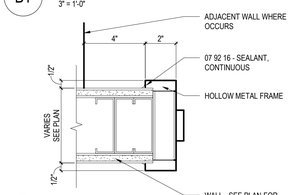
B3 SLIDING DOOR HEAD
3" = 1'-0"



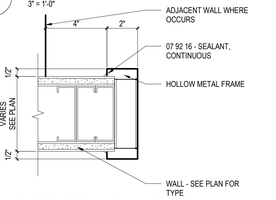
B4 SLIDING DOOR HEAD AT GLASS
3" = 1'-0"



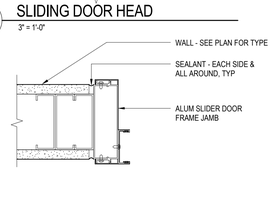
B6 SLIDING DOOR VERTICAL SECTION
3" = 1'-0"



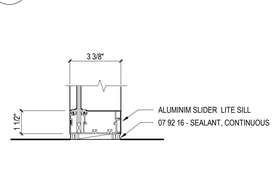
A1 DOOR JAMB DETAIL
3" = 1'-0"



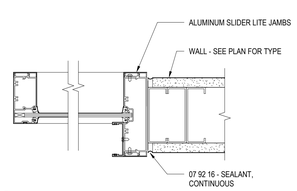
A2 CASED OPENING JAMB DETAIL
3" = 1'-0"



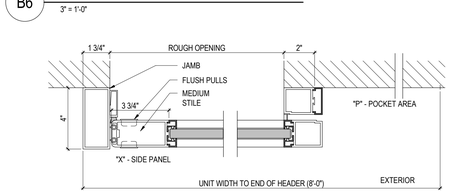
A3 SLIDING DOOR JAMB
3" = 1'-0"



A4 SLIDER SILL
3" = 1'-0"



A5 SLIDER WINDOW JAMB DETAIL
3" = 1'-0"



A6 SLIDING DOOR HORIZONTAL SECTION
3" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2
3	2018-04-20	ADDENDUM #3

Project Number 10062179

JEFFERY A MINTON 7816 3/28/2018 REGISTERED ARCHITECT STATE of ALABAMA

Sheet Name
DOOR SCHEDULES, ELEVATIONS AND DETAILS

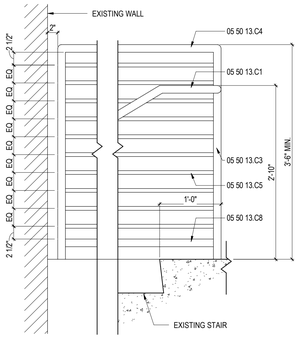
Scale
As indicated

Sheet Number
A-601

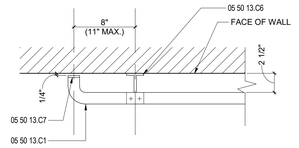
Project Status
CONSTRUCTION DOCUMENTS

4/19/2018 5:06:28 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt



E5 GUARDRAIL ELEVATION
1" = 1'-0"



D5 HANDRAIL TERMINATION
1 1/2" = 1'-0"

GLAZING LEGEND

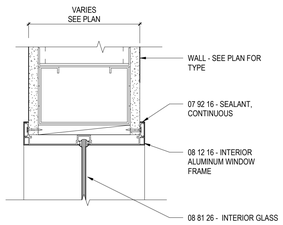
(T) TEMPERED GLAZING

GENERAL NOTES

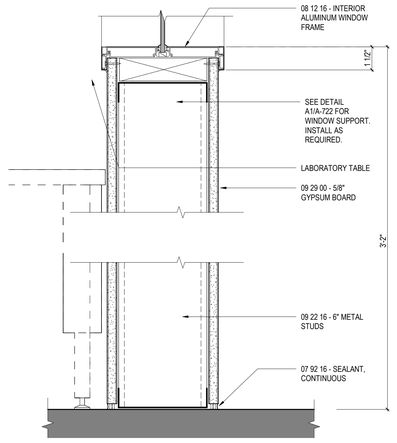
1. PROVIDE NEW CARD READER AT LOCATIONS IDENTIFIED WITH THE DESIGNATION "CR"

KEYNOTES - REFERENCE	
05 50 13.C1	HANDRAIL
05 50 13.C3	GUARDRAIL POST
05 50 13.C4	TOP RAIL
05 50 13.C5	INTERMEDIATE RAILS
05 50 13.C6	HANDRAIL MOUNTING BRACKET
05 50 13.C7	HANDRAIL END CAP
05 50 13.C8	BOTTOM RAIL

C4 STOREFRONT JAMB
3" = 1'-0"



B4 WINDOW HEAD
3" = 1'-0"



B5 WINDOW SILL
3" = 1'-0"

A1 INTERIOR WINDOW ELEVATIONS
1/4" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	ADDENDUM #2

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name

INTERIOR WINDOWS AND STAIR DETAILS

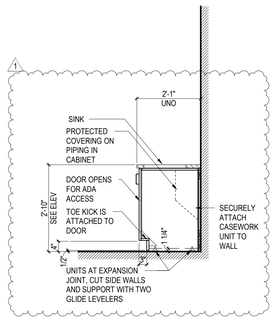
Scale
As indicated

Sheet Number

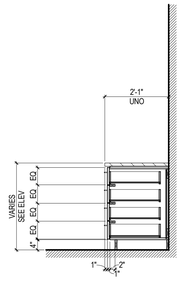
A-611

Project Status
CONSTRUCTION DOCUMENTS

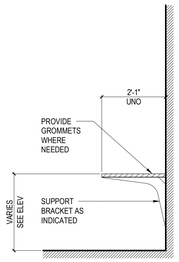
4/12/2018 4:37:02 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt



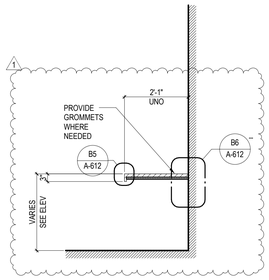
E1 B2101
1/2" = 1'-0"



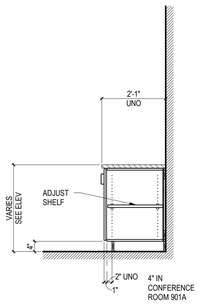
E2 D3104
1/2" = 1'-0"



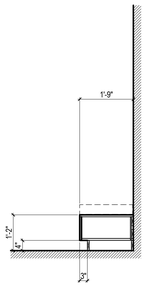
E3 K30101
1/2" = 1'-0"



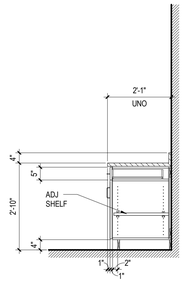
E4 K30102
1/2" = 1'-0"



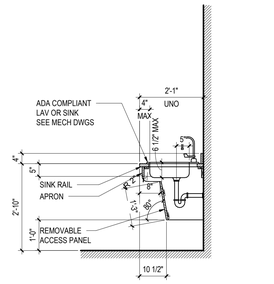
E6 B210X
1/2" = 1'-0"



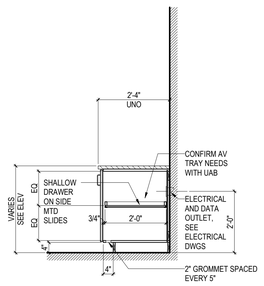
E7 BENCH
1/2" = 1'-0"



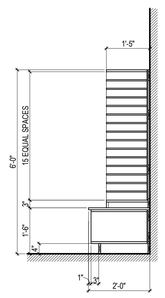
E8 B3141
1/2" = 1'-0"



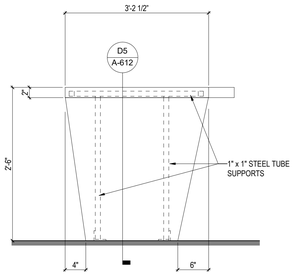
E9 B4400 - (ADA)
1/2" = 1'-0"



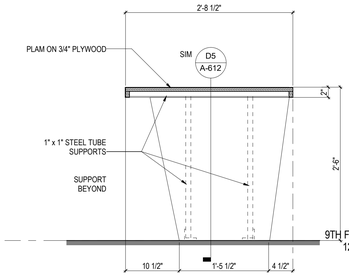
D1 AV CABINET
1/2" = 1'-0"



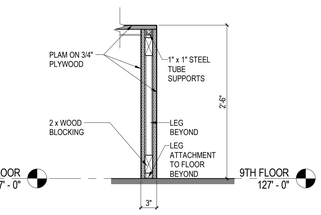
D2 MAIL CENTER
1/2" = 1'-0"



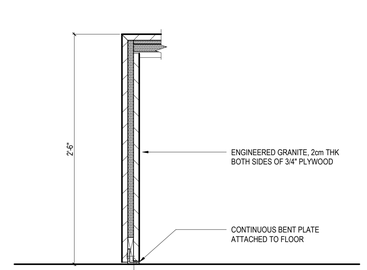
D3 FRONT OF TABLE
1" = 1'-0"



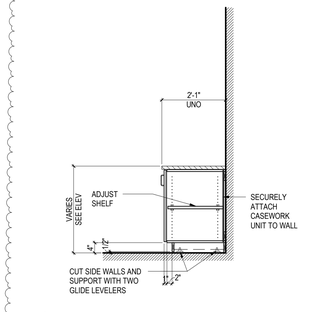
D4 TABLE SUPPORT LEG ELEVATION
1" = 1'-0"



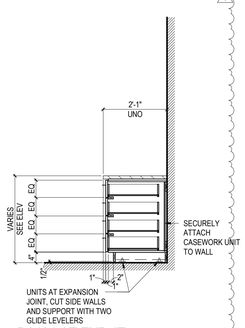
D5 SECTION THRU TABLE END
1" = 1'-0"



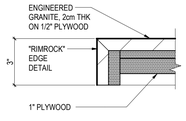
D6 SECTION THRU COFFEE WATERFALL LEG
1 1/2" = 1'-0"



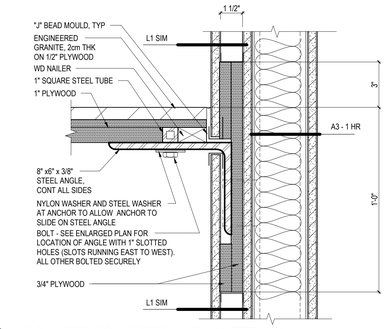
C1 B210X AT EXP JT
1/2" = 1'-0"



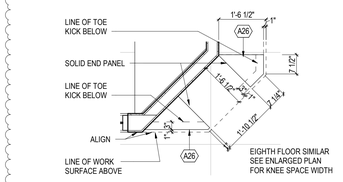
C2 D3104 AT EXP JT
1/2" = 1'-0"



B5 COUNTER EDGE DETAIL
3" = 1'-0"



B6 COUNTER CONNECTION AT COFFEE AREA
3" = 1'-0"



A6 ENLARGED 9TH FLR BREAK RM CASEWORK PLAN
1/2" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

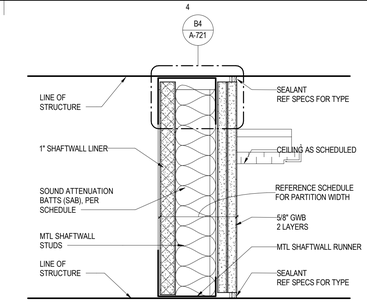
Sheet Name
MILLWORK DETAILS

Scale
As indicated

Sheet Number
A-612

Project Status
CONSTRUCTION DOCUMENTS

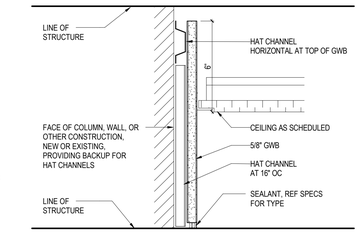
4/5/2018 3:33:48 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt



(TYPE D) 2 HOUR SHAFTWALL

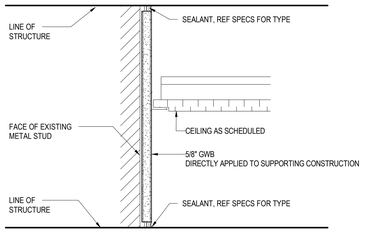
***NOTE: FIRE RESISTANCE TEST FOR TWO HOUR RATED SHAFTWALLS: V473.**

MARK	STUD WIDTH	PRTN WIDTH	SOUND ATTENUATION (STC) W/ SAB	TEST	No SAB	TEST
D4	4"	5 1/4"	-	-	-	-



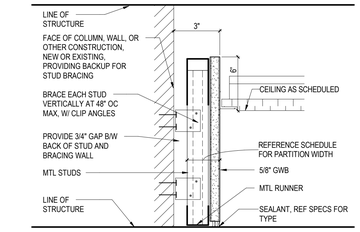
(TYPE M) FURRING PARTITION

MARK	STUD WIDTH	PRTN WIDTH	SOUND ATTENUATION (STC) W/ SAB	TEST	NO SAB	TEST
M1	7/8"	1 1/2"	-	-	-	-



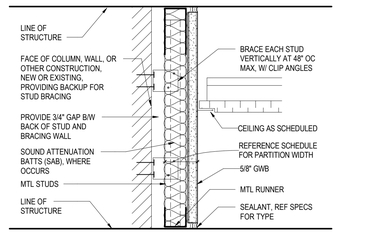
(TYPE N) DIRECT APPLIED

MARK	STUD WIDTH	PRTN WIDTH	SOUND ATTENUATION (STC) W/ SAB	TEST	NO SAB	TEST
N		5/8"	-	-	-	-



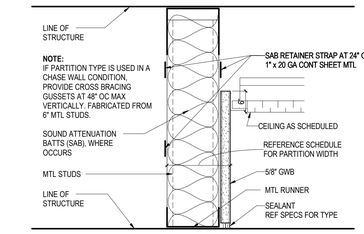
(TYPE K) FURRING PARTITION

MARK	STUD WIDTH	PRTN WIDTH	SOUND ATTENUATION (STC) W/ SAB	TEST	NO SAB	TEST
K1	1 5/8"	2 1/4"	-	-	-	-
K3	3 5/8"	4 1/4"	-	-	-	-



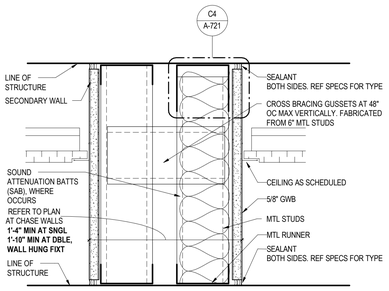
(TYPE L) FURRING PARTITION

MARK	STUD WIDTH	PRTN WIDTH	SOUND ATTENUATION (STC) W/ SAB	TEST	NO SAB	TEST
L1	1 5/8"	2 1/4"	-	-	-	-
L6	6"	6 5/8"	-	-	-	-



(TYPE J) NON-RATED PARTITION

MARK	STUD WIDTH	PRTN WIDTH	SOUND ATTENUATION (STC) W/ SAB	TEST	NO SAB	TEST
J2	2 1/2"	3 1/8"	-	-	-	-
J3	3 5/8"	4 1/4"	-	-	-	-
J6	6"	6 5/8"	-	-	-	-

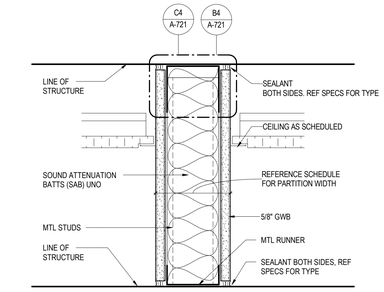


(TYPE E) CHASE PARTITION

***NOTE: FIRE RESISTANCE TEST FOR ONE HOUR RATED CHASE WALLS: U420**

***NOTE: STC RATING SHOWN IS FOR CHASE WALL CONDITIONS ONLY**

MARK	STUD WIDTH	PRTN WIDTH	SOUND ATTENUATION (STC) W/ SAB	TEST	NO SAB	TEST
E3	2 1/2"	4 1/4"	-	-	-	-
E6	6"	6 5/8"	-	-	-	-



(TYPE A) TYPICAL PARTITION

***NOTE: FIRE RESISTANCE TEST FOR ONE HOUR RATED WALLS: U465**

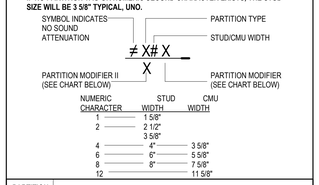
MARK	STUD WIDTH	PRTN WIDTH	SOUND ATTENUATION (STC) W/ SAB	TEST	NO SAB	TEST
A	3 5/8"	4 7/8"	47	RAL TL99-013	38	RAL TL99-160
A3	3 5/8"	4 7/8"	47	RAL TL99-013	38	RAL TL99-160
A6	6"	7 1/4"	51	RAL TL99-013	38	RAL TL99-160

GENERAL PARTITION NOTES

1. PARTITION ARE DISTINGUISHED ON FLOOR PLANS BY SYMBOL DESIGNATION, GRAPHIC DESIGNATION, OR A COMBINATION OF BOTH. SOME PARTITION TYPES SHOWN ON THIS SHEET MAY NOT BE USED ON THIS PROJECT
2. ALL WALLS NOT DESIGNATED WITH A GRAPHIC OR TAG TO BE TYPE "A3". IF UNCLEAR CONTACT ARCHITECT.
3. METAL STUDS INDICATED ON THIS SHEET FOR INTERIOR PARTITIONS REFER TO THOSE SPECIFIED IN SECTION 09 22 16 - NON STRUCTURAL METAL FRAMING. REFER TO SPECIFICATIONS FOR ADDITIONAL CRITERIA SUCH AS MINIMUM STUD SPACING, MINIMUM GAUGE AND PERMISSIBLE DEFLECTION LIMITS. SEE SECTION 05 41 04 LOAD BEARING METAL STUD SYSTEM FOR FRAMING THAT IS OUTSIDE THE SCOPE OF 09 22 16 AND ASTM C754, SUCH AS LONG HEADERS, CANTILEVERED WALLS, TALL WALLS, WALKABLE CEILINGS AND THEIR SUPPORTS, WALLS EXCEEDING SPAN TABLES AND OTHER UNUSUAL FRAMING CONDITIONS.
4. SOUND TRANSMISSION CLASS (STC) IS A RATING SYSTEM THAT DESCRIBES THE ABILITY OF AN ASSEMBLY TO REDUCE THE TRANSMISSION OF SOUND. CONFIGURE SOUND-RATED WALL ASSEMBLIES ACCORDING TO THE MINIMUM REQUIREMENTS STIPULATED IN THE STC TESTS LISTED. STC RATINGS LISTED ARE BASED ON LABORATORY TESTING AND ARE NOT INDICATIVE OF RESULTS IN FIELD.
5. REFER TO SECTION 09 29 00 FOR ACOUSTIC SEALANTS.
6. SOUND ATTENUATION BATTS (SAB) ARE SPECIFIED IN SECTION 09 29 00. WHERE SAB ARE INDICATED, THEY SHALL EXTEND CONTINUOUSLY FROM FLOOR TO STRUCTURE ABOVE.
7. PARTITIONS ARE INDICATED WITH CONVENTIONAL GYPSUM WALLBOARD UNO; UPGRADE TO PREMIUM TYPES OF WALLBOARD (I.E., MOISTURE-RESISTANT, TILE-BACKER BOARD, ACOUSTICALLY ENHANCED, ETC.) BASED ON THEIR LOCATION AND ACCORDING TO REQUIREMENTS OF SECTION 09 29 00.
8. SEALANTS INDICATED MAY BE FOR FIRE RATING, SMOKE RATING, AIR PRESSURE CONTAINMENT, ACOUSTIC RATING, VERMIN CONTROL, MOVEMENT (CRACK) CONTROL AND/OR BIOLOGICAL CONTAINMENT. SEALANT JOINTS ARE TO BE SIZED FOR EXPECTED MOVEMENT OF JOINT WITH EXPANSION/CONTRACTION CAPACITY OF SEALANT MATERIAL TO MAINTAIN THE INTEGRITY OF THE SEAL FOR THESE APPLICABLE PARAMETERS. SEE SPECIFICATION SECTION 07 92 16 FOR INTERIOR JOINT SEALANTS.
9. REFER TO SECTION 07 84 00 FOR HEAD-OF-WALL FIRESTOPPING AND SEALING OF THRU-WALL PENETRATIONS.
10. LINE OF STRUCTURE INDICATED FOR EACH PARTITION IS DIAGRAMATIC ONLY AND DOES NOT INDICATE EXACT CONSTRUCTION CONDITIONS OR GEOMETRY.
11. ALL DIMENSIONS ARE FROM FACE TO FACE, OR CENTERLINE TO CENTERLINE, UNO. REFER TO PARTITION MATRICES FOR PARTITION WIDTH DIMENSIONS UNLESS INDICATED TO BE SHOWN ON PLAN.
12. FIRE RESISTANT AND FIRE RESISTANT SMOKE BARRIER RATINGS ARE TO CONTINUE THROUGH ALL OPENINGS IN RATED PARTITIONS.
13. SMOKE RESISTANT, FIRE RESISTANT, AND FIRE RESISTANT SMOKE BARRIER PARTITIONS SHALL EXTEND AND SEAL TO INSIDE FACE OF EXTERIOR SHEATHING, INCLUDING EXTENSIONS THROUGH SOFFITS.
14. REFER TO THE TOILET ACCESSORIES SHEET AND CASEWORK SHEET FOR MOUNTING DETAIL INFORMATION.
15. REFER TO SHEET A-721 AND A-722 FOR ADDITIONAL PARTITION DETAILS AND FRAMING INFORMATION
16. ALL INTERIOR WALL AROUND COLUMNS ARE TO BE "K1" UNLESS NOTED OTHERWISE.
17. ALL INTERIOR WALLS AT EXISTING CONDITIONS WHERE GWB WAS REMOVED ARE TYPE "N" UNLESS NOTED OTHERWISE.

PARTITION TAGGING LEGEND:

THE TYPICAL PARTITION TAG SYMBOL DESIGNATION HAS TWO CHARACTERS. THE FIRST CHARACTER IS A LETTER INDICATING THE PARTITION TYPE. THE SECOND CHARACTER IS A NUMERIC INDICATION OF THE STUD OR CMU WIDTH. IF A "≠" SYMBOL IS SHOWN AS THE FIRST CHARACTER, THIS INDICATES THE PARTITION **DOES NOT** HAVE SOUND ATTENUATION. IN SOME INSTANCES, AN ADDITIONAL CHARACTER OR "MODIFIER" MAY BE ADDED TO THE END AND/OR THE LINE BELOW TO INDICATE ADDITIONAL CHARACTERISTICS WITHIN THE WALL. REFER TO CHART BELOW FOR MODIFIER DEFINITIONS.
IF NO PARTITION TAG OR NUMERIC SECOND CHARACTER EXISTS, THE STUD SIZE WILL BE 3 5/8" TYPICAL, UNO.



PARTITION MODIFIER	MODIFIER DESCRIPTION
L	**PROVIDE LEAD SHIELDING ON RADIOGRAPHIC SIDE OF ROOM.**
S	**PROVIDE SECURITY MESH AT GWB.**
T	**PROVIDE STAGGERED STUDS WITHIN A SINGLE TRACK, SNAKE SOUND ATTENUATION BATTS AROUND STAGGERED STUDS.**
P	**PROVIDE ADDITIONAL FINISH PANEL TO BASE PARTITION (WOOD, FRP, PHENOLIC, ACOUSTIC STONE PANELS, ETC)**
M	**PROVIDE CONCRETE OR MASONRY CURB AT BASE OF PARTITION (CAN BE UTILIZED AT A KITCHEN OR MECHANICAL ROOM)**
PARTION MODIFIER II	

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

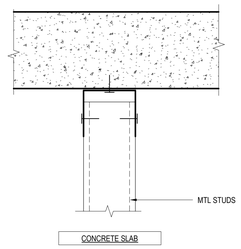
Sheet Name
STANDARD PARTITION TYPES

Scale
3" = 1'-0"

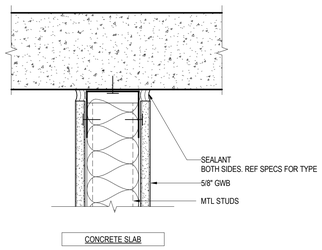
Sheet Number
A-720

Project Status
CONSTRUCTION DOCUMENTS

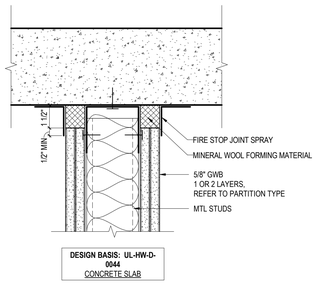
3/28/2018 3:39:15 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_MANGUS.rvt



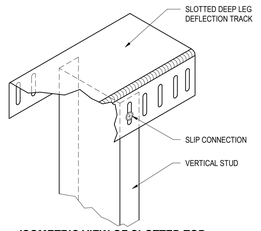
D4 STUD PARTITIONS - NON-FIRE, NON-SMOKE, NON-SOUND CONTROL PARTITIONS
3" = 1'-0"



C4 STUD PARTITIONS - SMOKE PARTITIONS AND SOUND CONTROL PARTITIONS
3" = 1'-0"



B4 STUD PARTITIONS - FIRE RATED PARTITIONS
3" = 1'-0"



ISOMETRIC VIEW OF SLOTTED TOP TRACK

GENERAL NOTES

1. CONDITIONS INDICATED SHOW DESIGN INTENT, ESPECIALLY IN REGARD TO ACCOMMODATION OF STRUCTURAL DEFLECTION AND CONTINUITY OF INTEGRITY OF SOUND, SMOKE AND FIRE WALLS.
2. DESIGN INTENT DETAILS ARE NOT INTENDED TO BE PROPRIETARY. CONTRACTOR MAY EMPLOY SIMILAR HEAD-OF-WALL DESIGNS AND COMPONENTS AS APPROPRIATE FOR CONDITIONS.
3. DESIGN INTENT DETAILS MAY NOT SHOW ALL CONDITIONS TO BE ENCOUNTERED ON A PROJECT. COMPLY WITH MANUFACTURER AND UL APPROVED METHODS FOR ATYPICAL CONDITIONS.
4. SECURE TOP OF INTERIOR PARTITIONS TO SUPERSTRUCTURE IN A WAY THAT PROVIDES LATERAL STABILITY (PERPENDICULAR-TO AND IN-PLANE WITH WALL) YET ALLOWING FOR A MINIMUM OF 3/4" OF VERTICAL DEFLECTION OF THE SUPERSTRUCTURE.
5. RIGIDLY SECURE SLOTTED TOP TRACK TO BUILDING SUPERSTRUCTURE IN AN APPROVED MANNER. EMPLOY Z-BARS, COLD-ROLLED CHANNELS OR SIMILAR SPACER TO ACCOMMODATE THICKNESS OF SPRAY-APPLIED FIRE-RESISTIVE MATERIALS (SFRM).
6. SLOTTED TOP TRACK, INDICATED ON THESE DETAILS, IS THE BASIS FOR DESIGN AND REFERS TO DEEP-LEG TRACKS WITH VERTICALLY SLOTTED HOLES. OPTIONAL MANUFACTURERS MAY PROVIDE SIMILAR, PROPRIETARY METHODS IN ACCORDANCE WITH THE PROVISIONS OF SPECIFICATION SECTION 09 22 16.
7. SECURE VERTICAL STUDS TO SLOTTED TOP TRACK AT MID-HEIGHT OF VERTICAL SLOTS IN TRACK. COMPONENTS INTENDED TO SLIDE VERTICALLY AS SUPERSTRUCTURE DEFLECTS.
8. DO NOT SCREW GYPSUM WALLBOARD TO TOP TRACK OR SUPERSTRUCTURE. GWB SCREWS INTO THE STUDS MUST BE AT LEAST 1" BELOW THE BOTTOM OF THE TOP TRACK.
9. REFER TO PARTITION STANDARDS FOR SPECIFIC WALL TYPES.
10. AT FIRE -RATED WALLS REFER TO SPECIFICATION SECTION 07 84 00 FOR ADDITIONAL REQUIREMENTS REGARDING HEAD-OF-WALL CONDITIONS.
11. MAINTAIN ACOUSTIC RATING WHERE SOUND-CONTROL WALLS ARE INDICATED.
12. FIRESTOPPING AND ACOUSTICAL SEALANTS SHALL AUTOBOND. PROVIDE EXPOSED CLEAN SEALANT (TO CONCEAL FIRESTOPPING) AT FOOD SERVICE, FDA INSPECTED PRODUCTION FACILITIES, VIVARIA, BIOLOGICAL CONTAINMENT AND CLEAN ROOM APPLICATIONS.
13. WHERE A WALL IS DESIGNATED AS BOTH A SOUND-CONTROL WALL AND A FIRE-RATED WALL, REFER TO FIRE-RATED HEAD-OF-WALL CONDITIONS.
14. WHERE A WALL IS DESIGNATED AS A SOUND-CONTROL WALL, FILL ALL VOIDS WITH SOUND ATTENTUATION BATTS (SAB).
15. SMOKE PARTITIONS REQUIRE THAT AT LEAST ONE LAYER OF GWB, AND SOUND-CONTROL WALLS REQUIRE GWB ON BOTH SIDES, BE CUT TO FOLLOW UNDULATING SURFACES OF THE SUPERSTRUCTURE INCUDING, BUT NOT LIMITED TO, FLUTES IN METAL DECKING. PROVIDE A CONTINUOUS BEAD OF SEALANT (AS SPECIFIED) TO SUPERSTRUCTURE.

A4 GENERAL REQUIREMENTS FOR STUD PARTITIONS
3" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
28616
3/28/2018
REGISTERED ARCHITECT

Sheet Name
PARTITION HEAD DETAILS

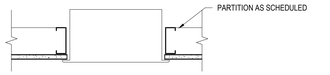
Scale
3" = 1'-0"

Sheet Number
A-721

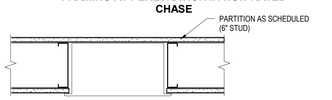
Project Status
CONSTRUCTION DOCUMENTS

3/28/2018 3:39:17 PM

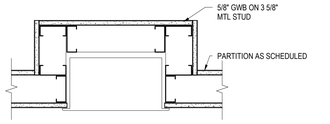
C:\rvt\2017\10062179-A-NEW-CENTRAL_MANGUS.rvt



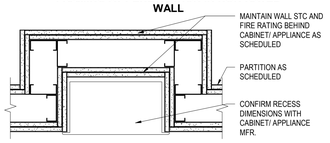
FRAMING AT PENETRATION IN NON-RATED CHASE



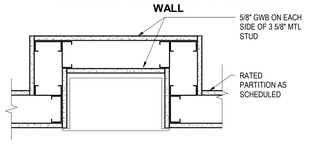
FRAMING AT PENETRATION IN NON-RATED WALL



FRAMING AT PENETRATION IN NON-RATED WALL

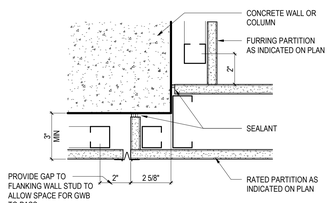


FRAMING AT PENETRATION IN FIRE RATED WALL

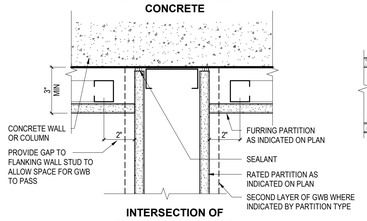


FRAMING AT PENETRATION IN 1-HR FIRE RATED WALL

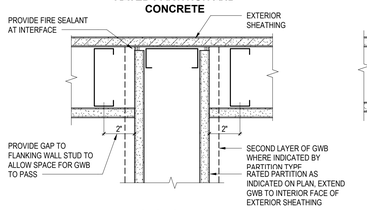
D1 WALL RECESS DETAIL
1 1/2" = 1'-0"



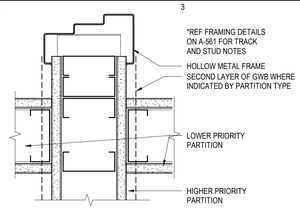
INTERSECTION AT RATED PARTITION AND CONCRETE



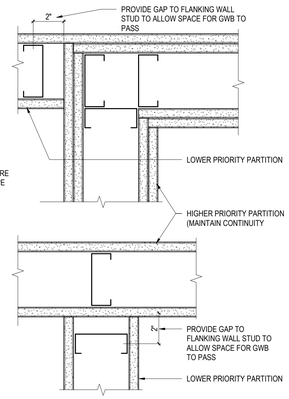
INTERSECTION OF RATED PARTITION AND CONCRETE



INTERSECTION AT RATED PARTITION AND EXTERIOR WALL



INTERSECTION OF CROSS CORRIDOR DOOR IN RATED PARTITION

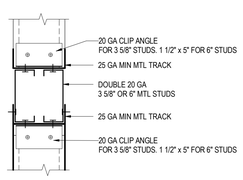


INTERSECTION AT VARIOUS WALL PRIORITY CONFIGURATIONS

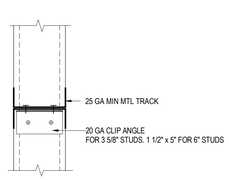
WALL PRIORITY NOTES:
1. WHERE WALLS OF DIFFERENT FUNCTIONS/ RATINGS INTERSECT: WALLS OF HIGHER PRIORITY SHALL BE CONTINUOUS.
2. LOWER PRIORITY WALLS SHALL "ABUT" AND BE "SEALED TO" HIGHER PRIORITY WALLS, BUT SHALL NOT INTERRUPT CONTINUITY OF THE HIGHER PRIORITY WALL.

D2 TYPICAL GYPSUM WALLBOARD PRIORITY DETAILS
3" = 1'-0"

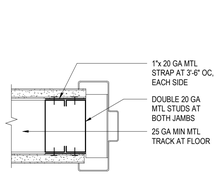
C1 DOOR OPENING HEADER
3" = 1'-0"



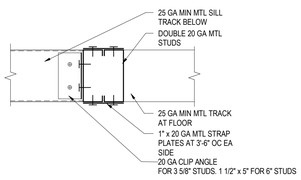
C2 DOUBLE DOOR LARGE OPENING HEADER
3" = 1'-0"



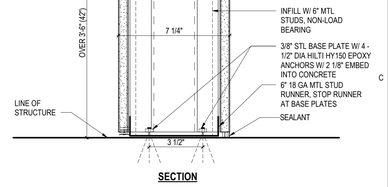
C3 OPENING HEADER
3" = 1'-0"



C4 DOOR OPENING JAMB STUDS
3" = 1'-0"

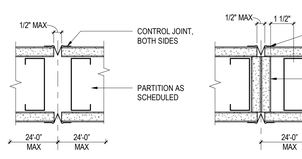


C5 LARGE OPENING JAMB STUDS
3" = 1'-0"

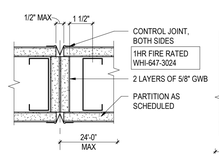


SECTION

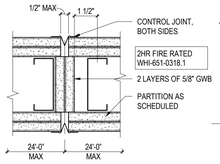
C6 KNEE WALL
3" = 1'-0"



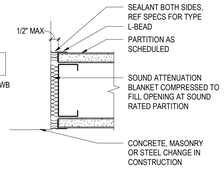
CONTROL JOINT IN GWB PARTITION



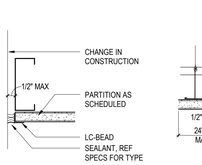
CONTROL JOINT IN 1 HR FIRE RATED PARTITION



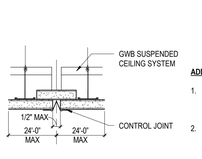
CONTROL JOINT IN 2 HR FIRE RATED PARTITION



CONTROL JOINT AT PARTITION INTERSECTION OR CHANGE IN CONSTRUCTION



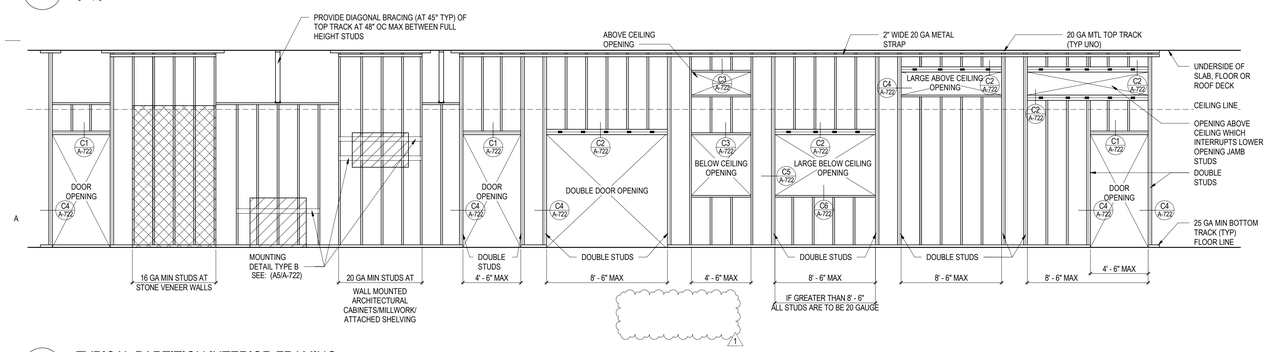
CONTROL JOINT IN PARTITION AT NON-EXPOSED EDGE



CONTROL JOINT IN GYPSUM BOARD CEILING

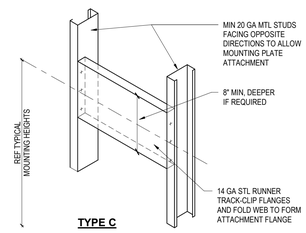
ADDITIONAL NOTES:
1. BUILDING CODE REQUIRES THAT "SMOKE PARTITIONS" BE SEALED TO STRUCTURE AS INDICATED TO SUCCESSFULLY "LIMIT THE PASSAGE OF SMOKE". CONDITIONS INDICATED TO SHOW DESIGN INTENT, AND NOT INTENDED TO BE PROPRIETARY. CONTRACTOR MAY EMPLOY SIMILAR UL-APPROVED CONTROL JOINTS DESIGNS THAT ARE APPROPRIATE FOR THE SPECIFIC CONDITION. JOINTS TO BE SIZED TO ACCOMMODATE MOVEMENT CAPABILITIES OF FIRESTOP ASSEMBLY.
2.

B1 GYPSUM WALLBOARD CONTROL JOINT DETAILS
3" = 1'-0"

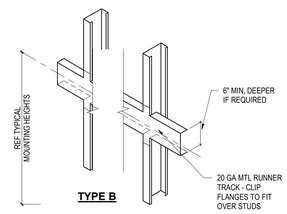


NOTES:
1. DETAILS SHOWN ASSUME STUDS ARE SPACED 16" OC
2. ALL STUDS SHALL BE "C" STUDS WITH 1-1/4" RETURN FLANGE MINIMUM.
3. ▨ INDICATES SHELVING OR CABINETRY
4. ▩ INDICATES STONE
5. DOUBLE STUDS AT SIDES OF OPENING **SHALL NOT** BE CUT FOR DUCTWORK OR ANY OTHER MECHANICAL SYSTEMS.
6. REFER TO _____ FOR MOUNTING TYPE DETAILS.
7. PROVIDE PARTITION BRACING AT ALL ASSEMBLIES OVER 15'-0" IN HEIGHT, UNO

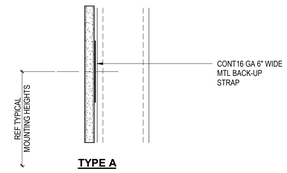
A1 TYPICAL PARTITION INTERIOR FRAMING
1/4" = 1'-0"



TYPE C

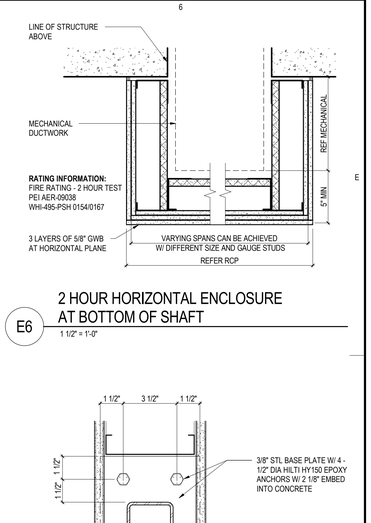


TYPE B

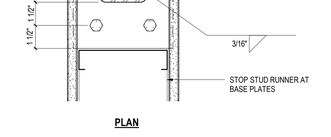


TYPE A

A5 METAL BACKING DETAILS FOR ACCESSORIES AND EQUIP.
NTS

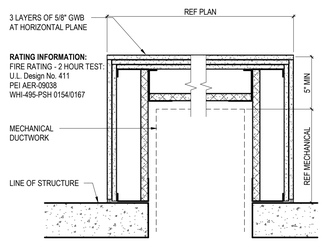


PLAN

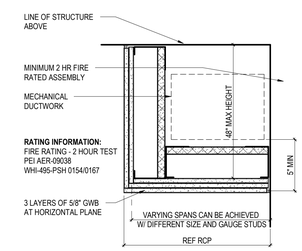


SECTION

E4 2 HOUR HORIZONTAL ENCLOSURE AT TOP OF SHAFT
1 1/2" = 1'-0"



E5 2 HOUR HORIZONTAL ENCLOSURE AT DUCTWORK
1 1/2" = 1'-0"



E6 2 HOUR HORIZONTAL ENCLOSURE AT BOTTOM OF SHAFT
1 1/2" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
PARTITION FRAMING DETAILS

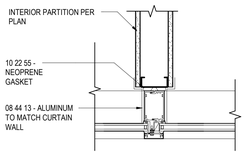
Scale
As indicated

Sheet Number
A-722

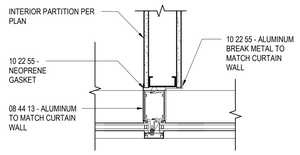
Project Status
CONSTRUCTION DOCUMENTS

4/5/2018 11:44:40 AM

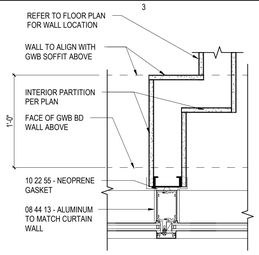
C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt



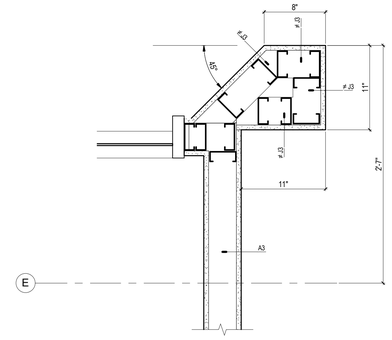
E1 WALL MEETS CURTAIN WALL - INLINE
1 1/2" = 1'-0"



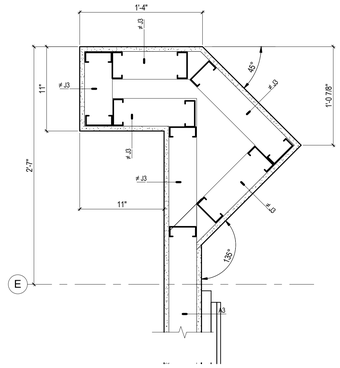
E2 WALL MEETS CURTAIN WALL - SLIGHT OFFSET
1 1/2" = 1'-0"



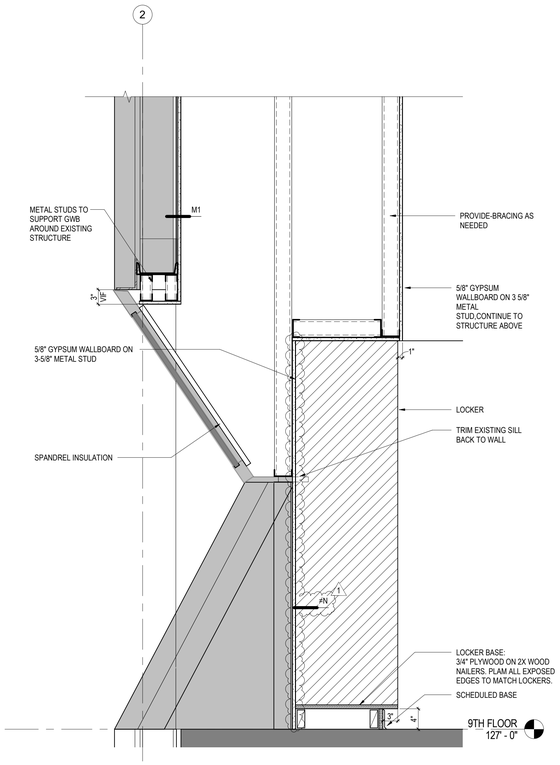
E3 WALL MEETS CURTAIN WALL - LARGE OFFSET
1 1/2" = 1'-0"



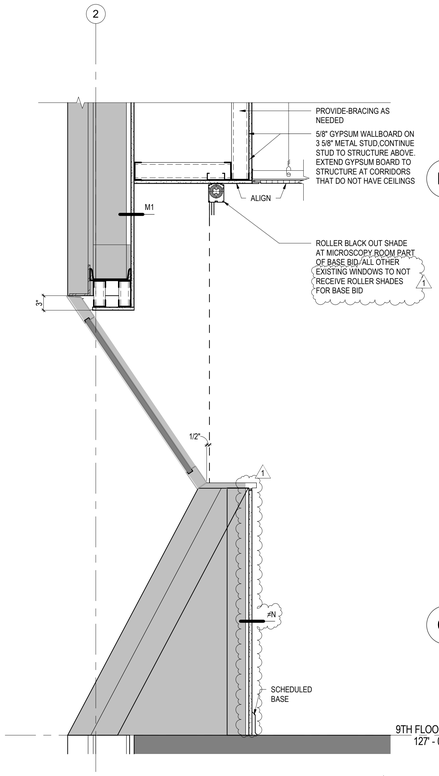
D4 PLAN DETAIL - 1
1 1/2" = 1'-0"



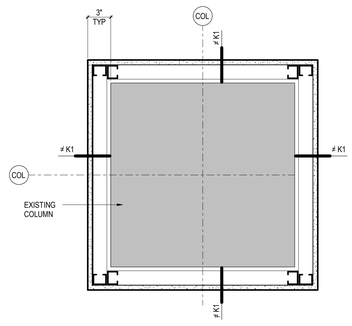
D5 PLAN DETAIL - 2
1 1/2" = 1'-0"



C1 SECTION BEHIND LOCKERS - 9TH FLR
1" = 1'-0"



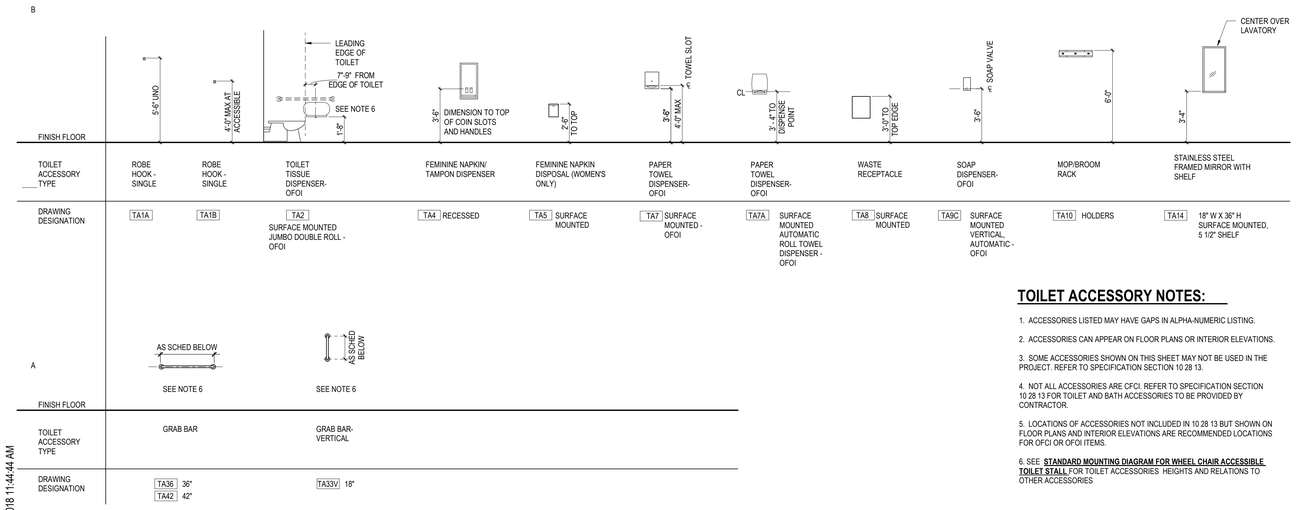
C3 SECTION THRU EXISTING WINDOW TO REMAIN - TYPICAL
1" = 1'-0"



C4 TYPICAL COLUMN WRAP
1 1/2" = 1'-0"

TOILET ACCESSORY MOUNTING DIAGRAM

SCALE: 1/4" = 1'-0"

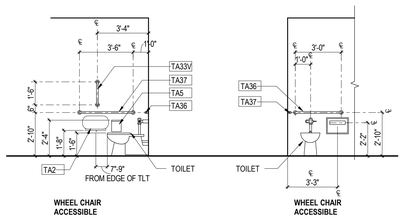


TOILET ACCESSORY NOTES:

1. ACCESSORIES LISTED MAY HAVE GAPS IN ALPHA-NUMERIC LISTING.
2. ACCESSORIES CAN APPEAR ON FLOOR PLANS OR INTERIOR ELEVATIONS.
3. SOME ACCESSORIES SHOWN ON THIS SHEET MAY NOT BE USED IN THE PROJECT. REFER TO SPECIFICATION SECTION 10 28 13.
4. NOT ALL ACCESSORIES ARE CFCI. REFER TO SPECIFICATION SECTION 10 28 13 FOR TOILET AND BATH ACCESSORIES TO BE PROVIDED BY CONTRACTOR.
5. LOCATIONS OF ACCESSORIES NOT INCLUDED IN 10 28 13 BUT SHOWN ON FLOOR PLANS AND INTERIOR ELEVATIONS ARE RECOMMENDED LOCATIONS FOR OFCI OR OFOI ITEMS.
6. SEE **STANDARD MOUNTING DIAGRAM FOR WHEEL CHAIR ACCESSIBLE TOILET STALL** FOR TOILET ACCESSORIES HEIGHTS AND RELATIONS TO OTHER ACCESSORIES

STANDARD MOUNTING DIAGRAM FOR WHEEL CHAIR ACCESSIBLE TOILET STALL

SCALE: 1/4" = 1'-0"



4/5/2018 11:44:44 AM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
28616
3/28/2018
REGISTERED ARCHITECT

Sheet Name
TYPICAL MOUNTING HEIGHTS AND INTERIOR DETAILS

Scale
As indicated

Sheet Number
A-730

Project Status
CONSTRUCTION DOCUMENTS

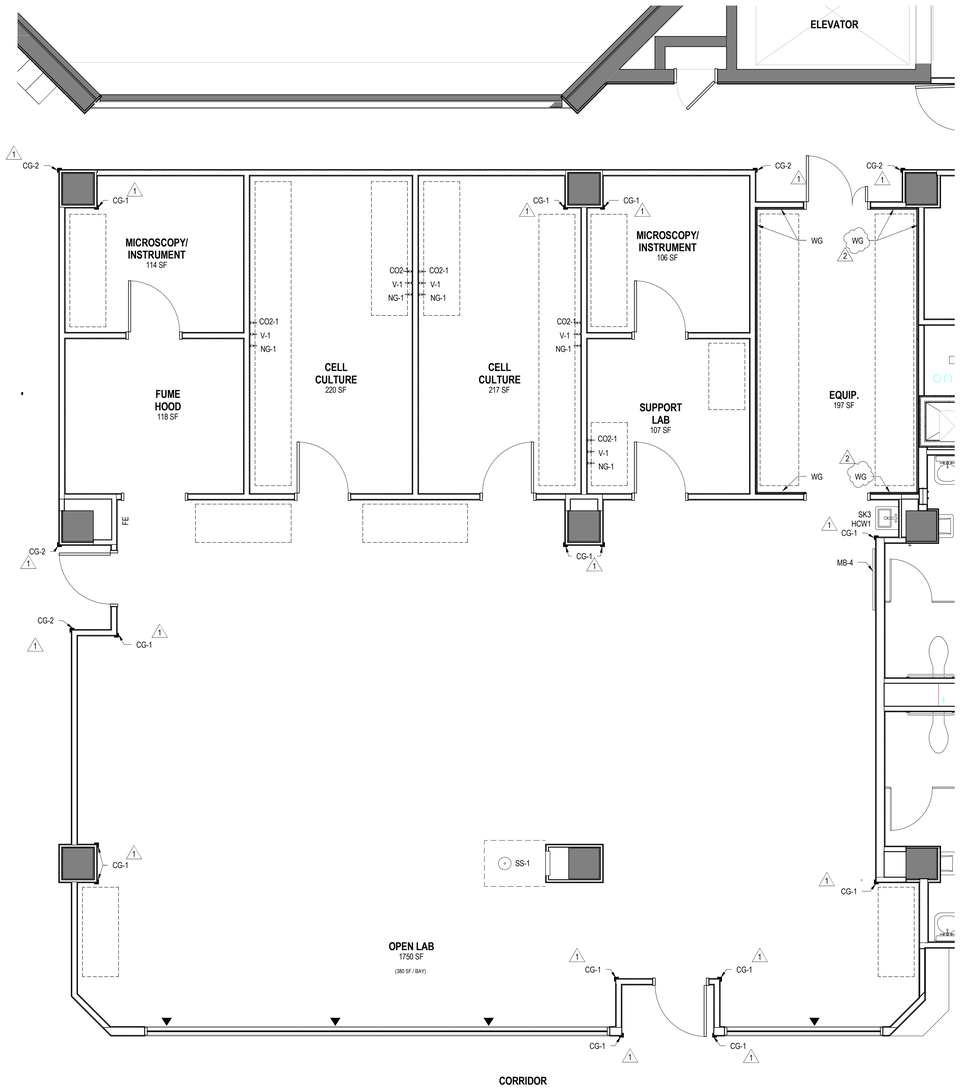
LAB LEGEND

- MARINE EDGE
- BASE CABINET BELOW
- EPOXY RESIN SINK
- TABLE (SHOWN w/ MOBILE CABINET BELOW)
- MOBILE BENCH - SINGLE FRAME
- MOBILE BENCH - SHARED FRAME
- FUME HOOD
- SINK UMBILICAL
- PEG BOARD
- EMERGENCY SHOWER/ EYEWASH UNIT (SEE SPEC SECTION 11 53 43)
- OFOI FLOOR EQUIPMENT. DO NOT PLACE SWITCHES, THERMOSTATS, SHUT-OFF VALVES, ELECTRICAL PANELS, FIRE ALARMS IN THIS AREA.
- +30H — 30 INCH HEIGHT OF WORK SURFACE AFF
- FD — FLOOR DRAIN
- GCR - GAS CYLINDER RACKS (SEE SPEC SECTION 12 35 53)

APSxx	ADJUSTABLE PENINSULA BENCH ASSEMBLY
ATSxxx	ADJUSTABLE TABLE
AWSxx	ADJUSTABLE WALL BENCH ASSEMBLY
BSxxx	BASE CABINET, STANDING HEIGHT
CO2-x	CARBON DIOXIDE NEEDLE VALVE
CFH-x	CHEMICAL FUME HOOD
CG-1	HALF HEIGHT STAINLESS STEEL CORNER GUARD
CG-2	FULL HEIGHT STAINLESS STEEL CORNER GUARD
EL	EXAM LIGHT
ER-x	EPOXY RESIN TOP +xx"HEIGHT OF TOP AFF
EQUIP	LABORATORY EQUIPMENT (OFOI)
EW-x	EYEWASH
FEA	FUME EXTRACTOR ARM
FEC	FIRE EXTINGUISHER CABINET
FD	FLOOR DRAIN
FSC	FLAMMABLE STORAGE CABINET
GCR	GAS CYLINDER RACK
HCW-x	HOT AND COLD WATER FAUCET
MB	MOBILE BASE CABINETS
MB-4	MARKER BOARD (SEE SPEC SECTION 10 11 00)
NG-x	NATURAL GAS NEEDLE VALVE
PB-x	PEGBOARD
PW-x	PURE WATER CONNECTION
SC-x	SERVICE COLUMN
SK-x	SINK
SS-x	SAFETY SHOWER
TBxxx	TALL CHEMICAL STORAGE CABINET
TGxxx	TALL CABINET
TP	CABLE/ TUBING THROUGH PORT
TSxx	TALL SHELVING
US-x	UTILITY SPINE
V-x	VACUUM NEEDLE VALVE
WB	WALL BLOCKING FOR CYLINDER RESTRAINTS
WG	WALL GUARD
W_xx	WALL MOUNTED SHELVING

LAB GENERAL NOTES:

1. REFER TO FLOOR PLANS FOR ROOM DIMENSIONS AND WALL PARTITION TYPES.
2. REFER TO SHEET AQ-501 AND AQ-502 FOR TYPICAL CASEWORK TYPES AND DETAILS.
3. LABORATORY WORK SURFACES SHALL BE 36 INCHES AFF, UNLESS OTHERWISE NOTED. LOCATIONS IDENTIFIED AS +30"H SURFACES SHALL ENCOMPASS ENTIRE ISLAND, PENINSULA AND/OR ADJACENT SURFACES AT SAME HEIGHT AFF.
4. ALL WORK SURFACES TO BE EPOXY, UNLESS NOTED OTHERWISE.
5. INSTALL MARINE EDGE AT SINK LOCATIONS.
6. CASEWORK, FUME HOODS, SERVICE FIXTURES AND FITTINGS ARE DESCRIBED IN SPECIFICATIONS. ALSO, SEE TYPICAL DETAILS ON SHEET AQ-501.
7. INSTALL BLOCKING/ BACKING AT WALLS WHERE CASEWORK IS PLACED/ MOUNTED.
8. PROVIDE MOBILE WOOD LABORATORY BASE CABINETS AS LOCATED ON FLOOR PLANS. SEE SHEET AQ-501 FOR TYPES.
9. REFER TO SPECIFICATION 10 26 00 FOR WALL GUARD WAINSCOT MOUNTING HEIGHT AND INFORMATION.
10. SEE DETAIL AQ-501 FOR TYPICAL INTEGRAL COVE BASE DETAIL AT EPOXY FLOORS.
11. FOR FLOOR DRAIN LOCATIONS AND DIMENSION SEE FLOOR PLANS.
12. ALL SPECIAL GAS WALL OUTLETS ARE SURFACE MOUNTED AT 7'-6" AFF, UNLESS NOTED OTHERWISE. SEE DETAIL 4/AQ-501.
16. SPECIAL GAS CYLINDERS (SHOWN DASHED) ARE NOT IN SCOPE OF WORK. THEY SHALL BE OFOI.
17. ALL SPECIAL GAS MANIFOLDS SHALL BE MOUNTED AT 5'-4" AFF UNLESS NOTED OTHERWISE.
18. REFER TO SHEET AQ-111 FOR ALTERNATE INFORMATION FOR 8TH AND 9TH FLOOR LAB PLANS PART A.
19. REFER TO SHEET AQ-111 FOR SINK AND CASEWORK LOCATIONS IN 8TH AND 9TH FLOOR LAB PLANS PART A.



A1 8TH FLOOR LAB PLAN PART A

1/4" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name

8TH FLOOR ENLARGED LABORATORY PLAN - PART A

Scale

Sheet Number

AQ-108A

Project Status

CONSTRUCTION DOCUMENTS

4/11/2018 10:11:16 AM

C:\rvt\2017\10062179-A-NEW-CENTRAL_YULEE.rvt

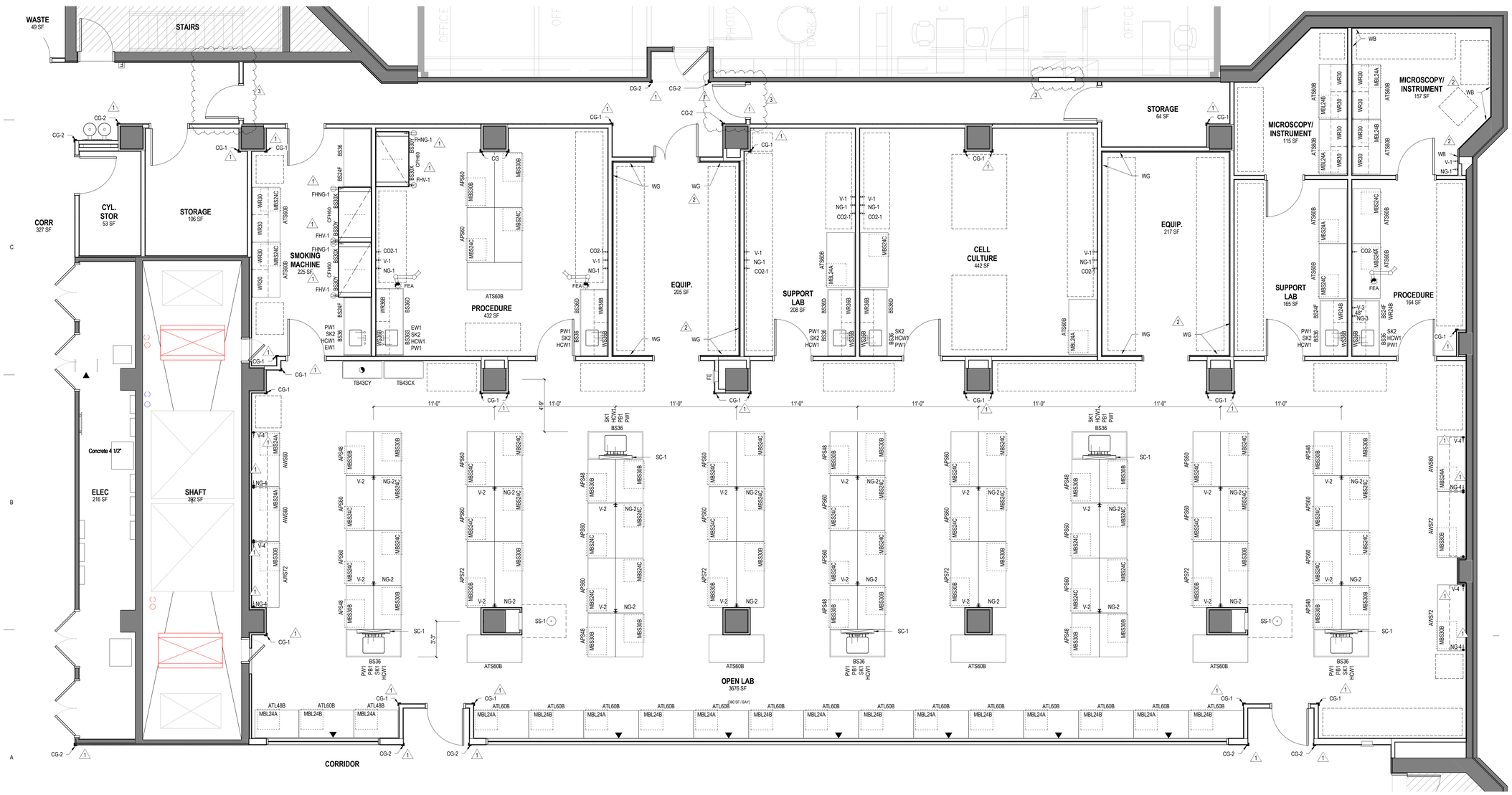
LAB LEGEND

- MARINE EDGE
- BASE CABINET BELOW
- EPOXY RESIN SINK
- TABLE (SHOWN w/ MOBILE CABINET BELOW)
- MOBILE BENCH - SINGLE FRAME
- MOBILE BENCH - SHARED FRAME
- FUME HOOD
- SINK UMBILICAL
- PEG BOARD
- EMERGENCY SHOWER/ EYEWASH UNIT (SEE SPEC SECTION 11 53 43)
- OFOI FLOOR EQUIPMENT. DO NOT PLACE SWITCHES, THERMOSTATS, SHUT-OFF VALVES, ELECTRICAL PANELS, FIRE ALARMS IN THIS AREA.
- +30H — 30 INCH HEIGHT OF WORK SURFACE AFF
- FD — FLOOR DRAIN
- GCR - GAS CYLINDER RACKS (SEE SPEC SECTION 12 35 53)

APSxx	ADJUSTABLE PENINSULA BENCH ASSEMBLY
ATSxxx	ADJUSTABLE TABLE
AWSxx	ADJUSTABLE WALL BENCH ASSEMBLY
BSxxx	BASE CABINET, STANDING HEIGHT
CO2-x	CARBON DIOXIDE NEEDLE VALVE
CFH-x	CHEMICAL FUME HOOD
CG-1	HALF HEIGHT STAINLESS STEEL CORNER GUARD
CG-2	FULL HEIGHT STAINLESS STEEL CORNER GUARD
EL	EXAM LIGHT
ER-x	EPOXY RESIN TOP +xx"HEIGHT OF TOP AFF
EQUIP	LABORATORY EQUIPMENT (OFOI)
EW-x	EYEWASH
FEA	FUME EXTRACTOR ARM
FEC	FIRE EXTINGUISHER CABINET
FD	FLOOR DRAIN
FSC	FLAMMABLE STORAGE CABINET
GCR	GAS CYLINDER RACK
HCW-x	HOT AND COLD WATER FAUCET
MB	MOBILE BASE CABINETS
MB-4	MARKER BOARD (SEE SPEC SECTION 10 11 00)
NG-x	NATURAL GAS NEEDLE VALVE
PB-x	PEGBOARD
PW-x	PURE WATER CONNECTION
SC-x	SERVICE COLUMN
SK-x	SINK
SS-x	SAFETY SHOWER
TBxxx	TALL CHEMICAL STORAGE CABINET
TGxxx	TALL CABINET
TP	CABLE/ TUBING THROUGH PORT
TSxx	TALL SHELVING
US-x	UTILITY SPINE
V-x	VACUUM NEEDLE VALVE
WB	WALL BLOCKING FOR CYLINDER RESTRAINTS
WG	WALL GUARD
W_xx	WALL MOUNTED SHELVING

LAB GENERAL NOTES:

1. REFER TO FLOOR PLANS FOR ROOM DIMENSIONS AND WALL PARTITION TYPES.
2. REFER TO SHEET AQ-501 AND AQ-502 FOR TYPICAL CASEWORK TYPES AND DETAILS.
3. LABORATORY WORK SURFACES SHALL BE 36 INCHES AFF, UNLESS OTHERWISE NOTED. LOCATIONS IDENTIFIED AS +30"H SURFACES SHALL ENCOMPASS ENTIRE ISLAND, PENINSULA AND/OR ADJACENT SURFACES AT SAME HEIGHT AFF.
4. ALL WORK SURFACES TO BE EPOXY, UNLESS NOTED OTHERWISE.
5. INSTALL MARINE EDGE AT SINK LOCATIONS.
6. CASEWORK, FUME HOODS, SERVICE FIXTURES AND FITTINGS ARE DESCRIBED IN SPECIFICATIONS. ALSO, SEE TYPICAL DETAILS ON SHEET AQ-501.
7. INSTALL BLOCKING/ BACKING AT WALLS WHERE CASEWORK IS PLACED/ MOUNTED.
8. PROVIDE MOBILE WOOD LABORATORY BASE CABINETS AS LOCATED ON FLOOR PLANS. SEE SHEET AQ-501 FOR TYPES.
9. REFER TO SPECIFICATION 10 26 00 FOR WALL GUARD WAINSCOT MOUNTING HEIGHT AND INFORMATION.
10. SEE DETAIL AQ-501 FOR TYPICAL INTEGRAL COVE BASE DETAIL AT EPOXY FLOORS.
11. FOR FLOOR DRAIN LOCATIONS AND DIMENSION SEE FLOOR PLANS.
12. ALL SPECIAL GAS WALL OUTLETS ARE SURFACE MOUNTED AT 7'-6" AFF, UNLESS NOTED OTHERWISE. SEE DETAIL 4/AQ-501.
16. SPECIAL GAS CYLINDERS (SHOWN DASHED) ARE NOT IN SCOPE OF WORK. THEY SHALL BE OFOI.
17. ALL SPECIAL GAS MANIFOLDS SHALL BE MOUNTED AT 5'-4" AFF UNLESS NOTED OTHERWISE.
18. REFER TO SHEET AQ-111 FOR ALTERNATE INFORMATION FOR 8TH AND 9TH FLOOR LAB PLANS PART A.
19. REFER TO SHEET AQ-111 FOR SINK AND CASEWORK LOCATIONS IN 8TH AND 9TH FLOOR LAB PLANS PART A.



A1 8TH FLOOR LAB PLAN PART B

1/4" = 1'-0"

0 4'-0" 8'-0" 16'-0"

4/19/2018 5:06:57 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2
3	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name

8TH FLOOR ENLARGED LABORATORY PLAN - PART B

Scale

Sheet Number

AQ-108B

Project Status

CONSTRUCTION DOCUMENTS

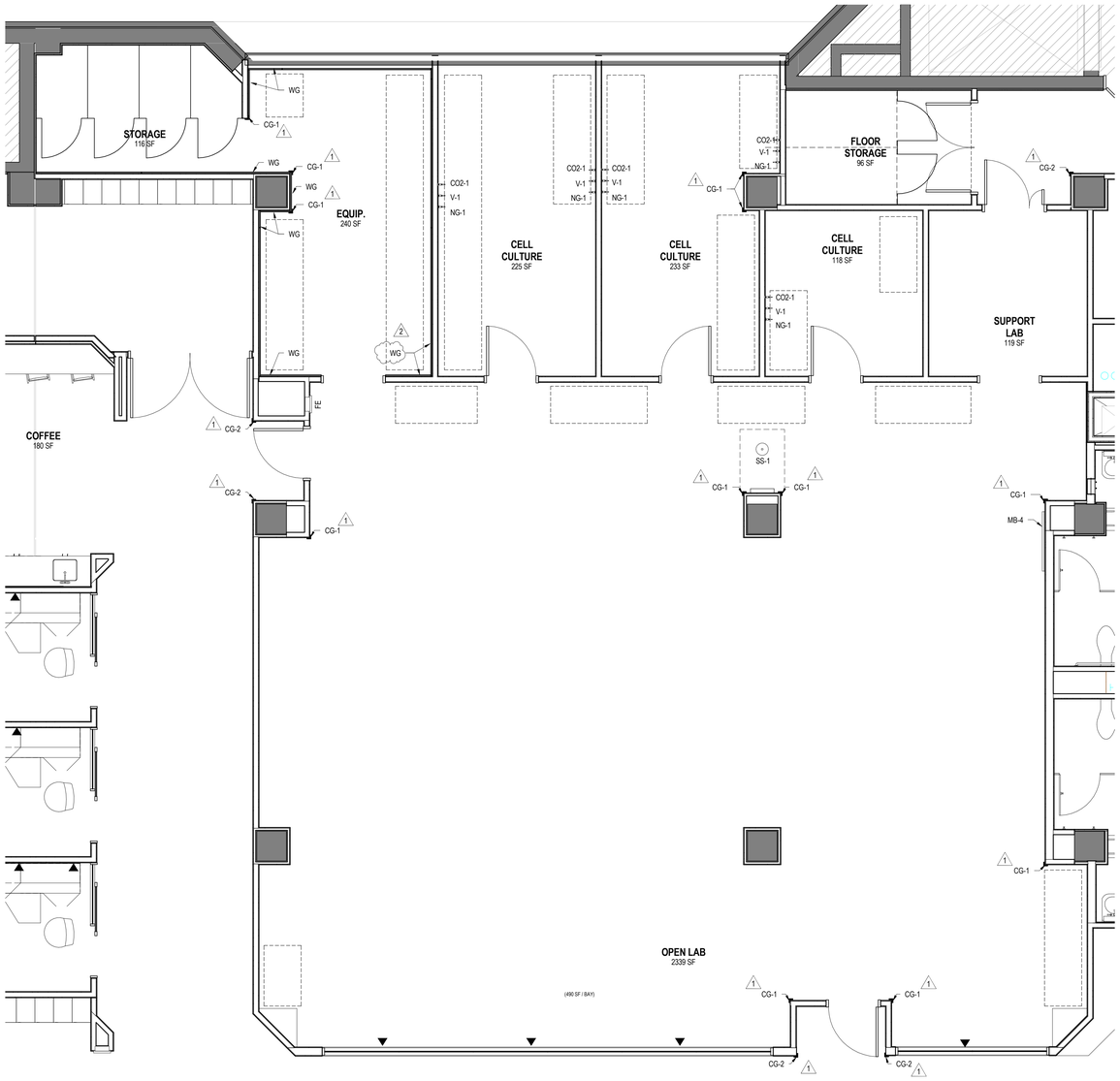
LAB LEGEND

- MARINE EDGE
- BASE CABINET BELOW EPOXY RESIN SINK
- TABLE (SHOWN w/ MOBILE CABINET BELOW)
- MOBILE BENCH - SINGLE FRAME
- MOBILE BENCH - SHARED FRAME
- FUME HOOD
- SINK UMBILICAL
- PEG BOARD
- EMERGENCY SHOWER/ EYEWASH UNIT (SEE SPEC SECTION 11 53 43)
- OFOI FLOOR EQUIPMENT. DO NOT PLACE SWITCHES, THERMOSTATS, SHUT-OFF VALVES, ELECTRICAL PANELS, FIRE ALARMS IN THIS AREA.
- 30 INCH HEIGHT OF WORK SURFACE AFF
- FD — FLOOR DRAIN
- GCR - GAS CYLINDER RACKS (SEE SPEC SECTION 12 35 53)

APSxx	ADJUSTABLE PENINSULA BENCH ASSEMBLY
ATSxxx	ADJUSTABLE TABLE
AWSxx	ADJUSTABLE WALL BENCH ASSEMBLY
BSxxx	BASE CABINET, STANDING HEIGHT
CO2-x	CARBON DIOXIDE NEEDLE VALVE
CFH-x	CHEMICAL FUME HOOD
CG-1	HALF HEIGHT STAINLESS STEEL CORNER GUARD
CG-2	FULL HEIGHT STAINLESS STEEL CORNER GUARD
EL	EXAM LIGHT
ER-x	EPOXY RESIN TOP +xx"HEIGHT OF TOP AFF
EQUIP	LABORATORY EQUIPMENT (OFOI)
EW-x	EYEWASH
FEA	FUME EXTRACTOR ARM
FEC	FIRE EXTINGUISHER CABINET
FD	FLOOR DRAIN
FSC	FLAMMABLE STORAGE CABINET
GCR	GAS CYLINDER RACK
HCW-x	HOT AND COLD WATER FAUCET
MB	MOBILE BASE CABINETS
MB-4	MARKER BOARD (SEE SPEC SECTION 10 11 00)
NG-x	NATURAL GAS NEEDLE VALVE
PB-x	PEGBOARD
PW-x	PURE WATER CONNECTION
SC-x	SERVICE COLUMN
SK-x	SINK
SS-x	SAFETY SHOWER
TBxxx	TALL CHEMICAL STORAGE CABINET
TGxxx	TALL CABINET
TP	CABLE/ TUBING THROUGH PORT
TSxx	TALL SHELVING
US-x	UTILITY SPINE
V-x	VACUUM NEEDLE VALVE
WB	WALL BLOCKING FOR CYLINDER RESTRAINTS
WG	WALL GUARD
W_xx	WALL MOUNTED SHELVING

LAB GENERAL NOTES:

1. REFER TO FLOOR PLANS FOR ROOM DIMENSIONS AND WALL PARTITION TYPES.
2. REFER TO SHEET AQ-501 AND AQ-502 FOR TYPICAL CASEWORK TYPES AND DETAILS.
3. LABORATORY WORK SURFACES SHALL BE 36 INCHES AFF, UNLESS OTHERWISE NOTED. LOCATIONS IDENTIFIED AS +30"H SURFACES SHALL ENCOMPASS ENTIRE ISLAND, PENINSULA AND/OR ADJACENT SURFACES AT SAME HEIGHT AFF.
4. ALL WORK SURFACES TO BE EPOXY, UNLESS NOTED OTHERWISE.
5. INSTALL MARINE EDGE AT SINK LOCATIONS.
6. CASEWORK, FUME HOODS, SERVICE FIXTURES AND FITTINGS ARE DESCRIBED IN SPECIFICATIONS. ALSO, SEE TYPICAL DETAILS ON SHEET AQ-501.
7. INSTALL BLOCKING/ BACKING AT WALLS WHERE CASEWORK IS PLACED/ MOUNTED.
8. PROVIDE MOBILE WOOD LABORATORY BASE CABINETS AS LOCATED ON FLOOR PLANS. SEE SHEET AQ-501 FOR TYPES.
9. REFER TO SPECIFICATION 10 26 00 FOR WALL GUARD WAINSCOT MOUNTING HEIGHT AND INFORMATION.
10. SEE DETAIL AQ-501 FOR TYPICAL INTEGRAL COVE BASE DETAIL AT EPOXY FLOORS.
11. FOR FLOOR DRAIN LOCATIONS AND DIMENSION SEE FLOOR PLANS.
12. ALL SPECIAL GAS WALL OUTLETS ARE SURFACE MOUNTED AT 7'-6" AFF, UNLESS NOTED OTHERWISE. SEE DETAIL 4/AQ-501.
16. SPECIAL GAS CYLINDERS (SHOWN DASHED) ARE NOT IN SCOPE OF WORK. THEY SHALL BE OFOI.
17. ALL SPECIAL GAS MANIFOLDS SHALL BE MOUNTED AT 5'-4" AFF UNLESS NOTED OTHERWISE.
18. REFER TO SHEET AQ-111 FOR ALTERNATE INFORMATION FOR 8TH AND 9TH FLOOR LAB PLANS PART A.
19. REFER TO SHEET AQ-111 FOR SINK AND CASEWORK LOCATIONS IN 8TH AND 9TH FLOOR LAB PLANS PART A.



A1 9TH FLOOR LAB PLAN PART A

1/4" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
2816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
9TH FLOOR ENLARGED LABORATORY PLAN - PART A

Scale

Sheet Number
AQ-109A

Project Status
CONSTRUCTION DOCUMENTS

4/11/2018 10:11:19 AM
C:\rvt\2017\10062179-A-NEW-CENTRAL_YULEE.rvt

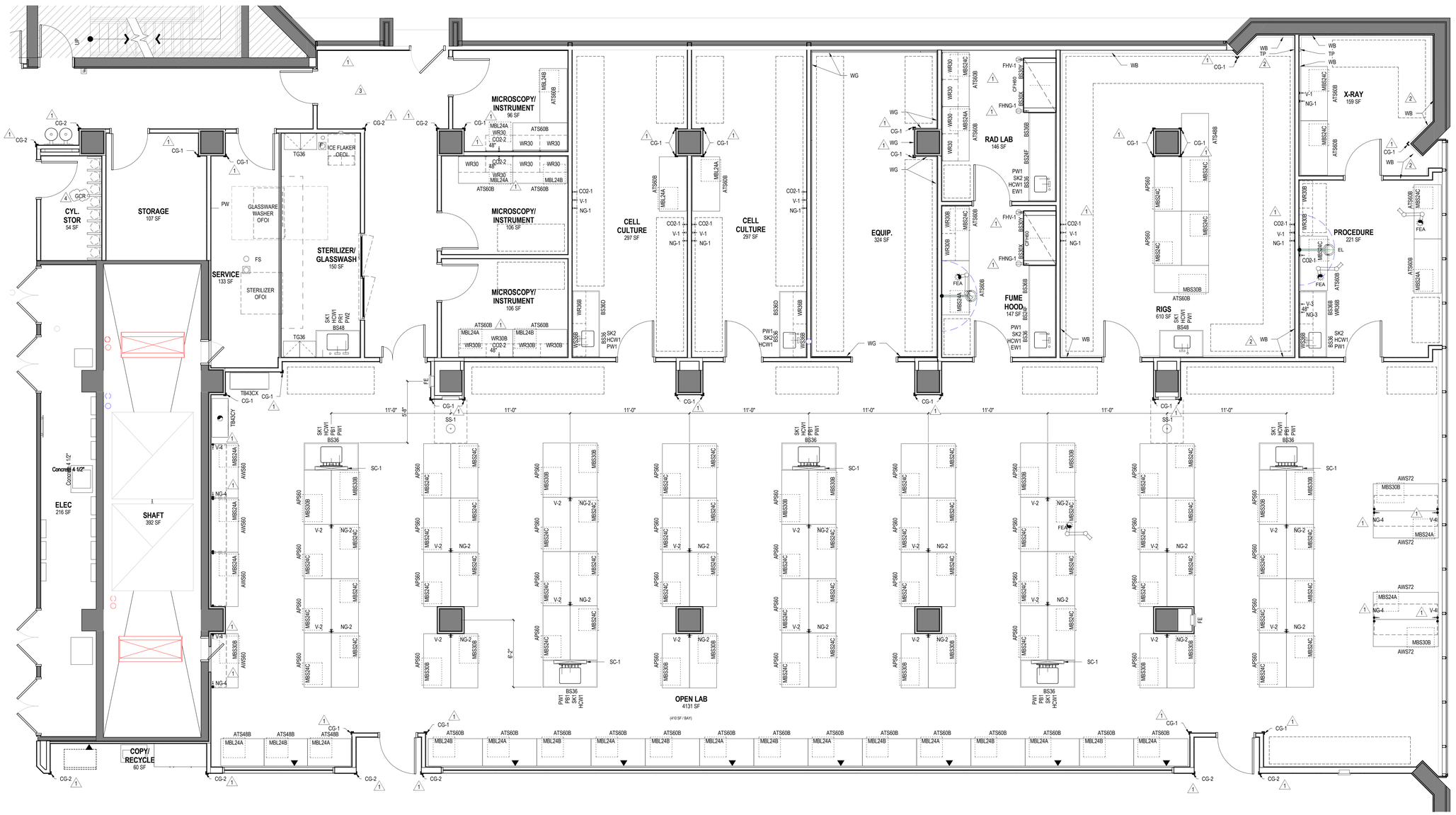
LAB LEGEND

- MARINE EDGE
- BASE CABINET BELOW EPOXY RESIN SINK
- TABLE (SHOWN w/ MOBILE CABINET BELOW)
- MOBILE BENCH - SINGLE FRAME
- MOBILE BENCH - SHARED FRAME
- FUME HOOD
- SINK UMBILICAL
- PEG BOARD
- EMERGENCY SHOWER/ EYEWASH UNIT (SEE SPEC SECTION 11 53 43)
- OFOI FLOOR EQUIPMENT. DO NOT PLACE SWITCHES, THERMOSTATS, SHUT-OFF VALVES, ELECTRICAL PANELS, FIRE ALARMS IN THIS AREA.
- +30H — 30 INCH HEIGHT OF WORK SURFACE AFF
- FD — FLOOR DRAIN
- GCR - GAS CYLINDER RACKS (SEE SPEC SECTION 12 35 53)

APSxx	ADJUSTABLE PENINSULA BENCH ASSEMBLY	HCW-x	HOT AND COLD WATER FAUCET
ATSxxx	ADJUSTABLE TABLE	MB	MOBILE BASE CABINETS
AWSxx	ADJUSTABLE WALL BENCH ASSEMBLY	MB-4	MARKER BOARD (SEE SPEC SECTION 10 11 00)
BSxxx	BASE CABINET, STANDING HEIGHT	NG-x	NATURAL GAS NEEDLE VALVE
CO2-x	CARBON DIOXIDE NEEDLE VALVE	PB-x	PEGBOARD
CFH-x	CHEMICAL FUME HOOD	PW-x	PURE WATER CONNECTION
CG-1	HALF HEIGHT STAINLESS STEEL CORNER GUARD	SC-x	SERVICE COLUMN
CG-2	FULL HEIGHT STAINLESS STEEL CORNER GUARD	SK-x	SINK
EL	EXAM LIGHT	SS-x	SAFETY SHOWER
ER-x	EPOXY RESIN TOP +xx"HEIGHT OF TOP AFF	TBxxx	TALL CHEMICAL STORAGE CABINET
EQUIP	LABORATORY EQUIPMENT (OFOI)	TGxxx	TALL CABINET
EW-x	EYEWASH	TP	CABLE/ TUBING THROUGH PORT
FEA	FUME EXTRACTOR ARM	TSxx	TALL SHELVING
FEC	FIRE EXTINGUISHER CABINET	US-x	UTILITY SPINE
FD	FLOOR DRAIN	V-x	VACUUM NEEDLE VALVE
FS	FLOOR SINK	WB	WALL BLOCKING FOR CYLINDER RESTRAINTS
FSC	FLAMMABLE STORAGE CABINET	WG	WALL GUARD
GCR	GAS CYLINDER RACK	W_xx	WALL MOUNTED SHELVING

LAB GENERAL NOTES:

1. REFER TO FLOOR PLANS FOR ROOM DIMENSIONS AND WALL PARTITION TYPES.
2. REFER TO SHEET AQ-501 AND AQ-502 FOR TYPICAL CASEWORK TYPES AND DETAILS.
3. LABORATORY WORK SURFACES SHALL BE 36 INCHES AFF, UNLESS OTHERWISE NOTED. LOCATIONS IDENTIFIED AS +30"H SURFACES SHALL ENCOMPASS ENTIRE ISLAND, PENINSULA AND/OR ADJACENT SURFACES AT SAME HEIGHT AFF.
4. ALL WORK SURFACES TO BE EPOXY, UNLESS NOTED OTHERWISE.
5. INSTALL MARINE EDGE AT SINK LOCATIONS.
6. CASEWORK, FUME HOODS, SERVICE FIXTURES AND FITTINGS ARE DESCRIBED IN SPECIFICATIONS. ALSO, SEE TYPICAL DETAILS ON SHEET AQ-501.
7. INSTALL BLOCKING/ BACKING AT WALLS WHERE CASEWORK IS PLACED/ MOUNTED.
8. PROVIDE MOBILE WOOD LABORATORY BASE CABINETS AS LOCATED ON FLOOR PLANS. SEE SHEET AQ-501 FOR TYPES.
9. REFER TO SPECIFICATION 10 26 00 FOR WALL GUARD WAINSCOT MOUNTING HEIGHT AND INFORMATION.
10. SEE DETAIL AQ-501 FOR TYPICAL INTEGRAL COVE BASE DETAIL AT EPOXY FLOORS.
11. FOR FLOOR DRAIN LOCATIONS AND DIMENSION SEE FLOOR PLANS.
12. ALL SPECIAL GAS WALL OUTLETS ARE SURFACE MOUNTED AT 7'-6" AFF, UNLESS NOTED OTHERWISE. SEE DETAIL 4/AQ-501.
16. SPECIAL GAS CYLINDERS (SHOWN DASHED) ARE NOT IN SCOPE OF WORK. THEY SHALL BE OFOI.
17. ALL SPECIAL GAS MANIFOLDS SHALL BE MOUNTED AT 5'-4" AFF UNLESS NOTED OTHERWISE.
18. REFER TO SHEET AQ-111 FOR ALTERNATE INFORMATION FOR 8TH AND 9TH FLOOR LAB PLANS PART A.
19. REFER TO SHEET AQ-111 FOR SINK AND CASEWORK LOCATIONS IN 8TH AND 9TH FLOOR LAB PLANS PART A.



A1 — 9TH FLOOR LAB PLAN PART B
1/4" = 1'-0"

4/26/2018 3:17:54 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2
3	2018-04-20	ADDENDUM #3
4	2018-04-26	ADDENDUM #4

Project Number 10062179

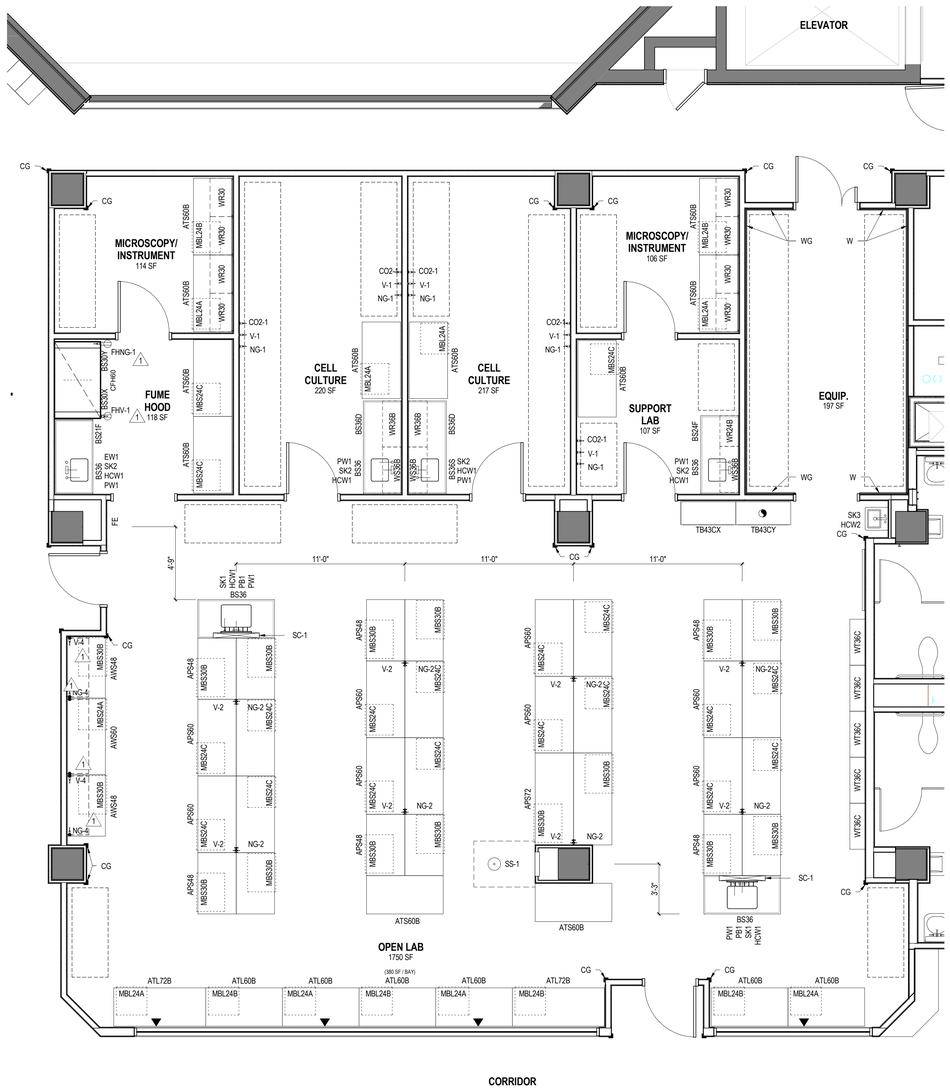
STATE of ALABAMA — JEFFERY A MINTON — 7816 — 3/28/2018 — REGISTERED ARCHITECT

Sheet Name
9TH FLOOR ENLARGED LABORATORY PLAN - PART B

Scale

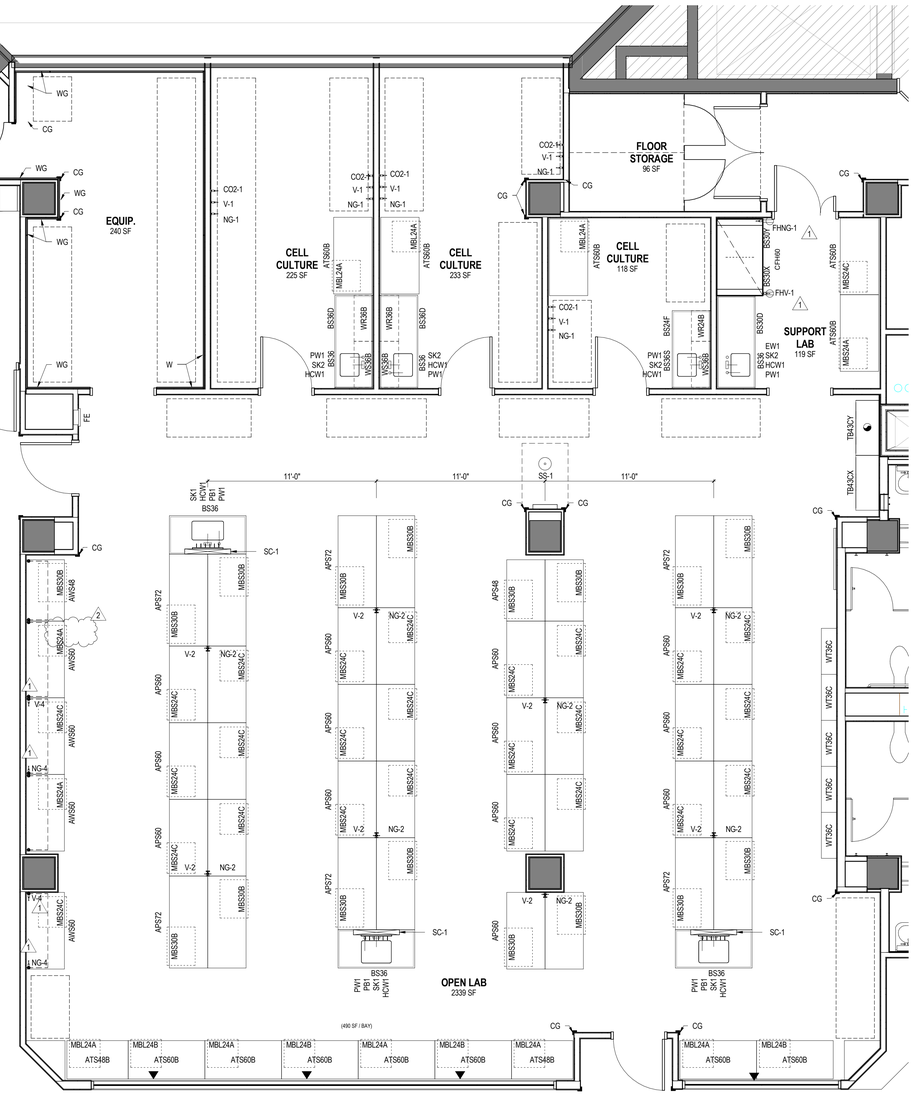
Sheet Number
AQ-109B

Project Status
CONSTRUCTION DOCUMENTS



A1 8TH FLOOR LAB PLAN PART A ALTERNATE 3

1/4" = 1'-0"



A4 9TH FLOOR LAB PLAN PART A ALTERNATE 2

1/4" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-26	ADDENDUM #4

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
CASEWORK ADD ALTERNATE

Scale
1/4" = 1'-0"

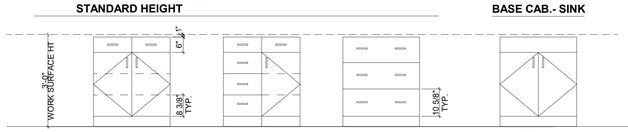
Sheet Number
AQ-111

Project Status
CONSTRUCTION DOCUMENTS

4/26/2018 3:16:00 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

BASE CABINETS - FIXED STANDARD HEIGHT



BSxxB
24" WIDE AND NARROWER CABINETS HAVE SINGLE DOOR

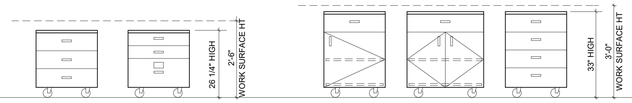
BSxxD

BSxxF

BASE CAB.- SINK

BSxxS

MOBILE BASE CABINETS



MBL24A

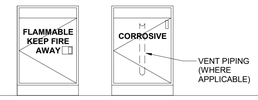
MBL24B

MBS24A

MBS30B

MBS24C

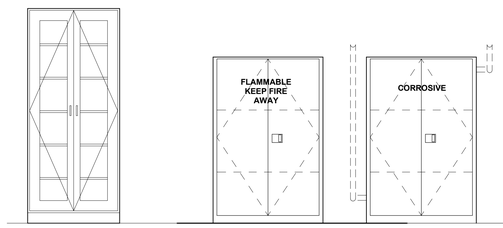
BASE CABINETS - SPECIALTY



BSxxX
FLAMMABLE STORAGE

BSxxY
CORROSIVE STORAGE

CABINETS - TALL STORAGE



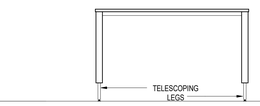
TG xx X

TA xx X *
- * DENOTES CABINET LOCK
- DEPTH A = 22" B = 16" C = 12"
- WIDTH
- STYLE

TBxxCX
FLAMMABLE STORAGE

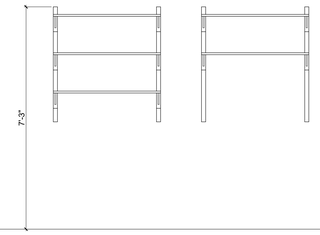
TBxxCY
CORROSIVE STORAGE

TABLE



AT S xx A c
- **AT** DENOTES ADJUSTABLE HT TABLE
- STANDING HEIGHT (S = 36") (A = 34") (L = 30")
- SITTING HEIGHT - INDICATED BY 'L' IN TAG
- DEPTH (A = 24") (B = 30") (C = 36")
- WIDTH
- DEFAULT FOOT IS GLIDE; c INDICATES CASTERS

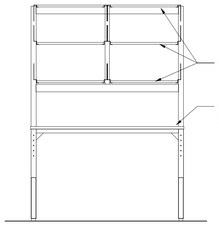
ADJUSTABLE WALL SHELVING



WR xx X
- STYLE
- WIDTH
- DEPTH A = 22" B = 16" C = 12"

WS xx X

SELF SUPPORTING MOVABLE BENCH



A X S xx
- P = PENINSULA BENCH DOUBLE SIDED, W = WALL BENCH SINGLE SIDED
- WIDTH
- STANDING HEIGHT

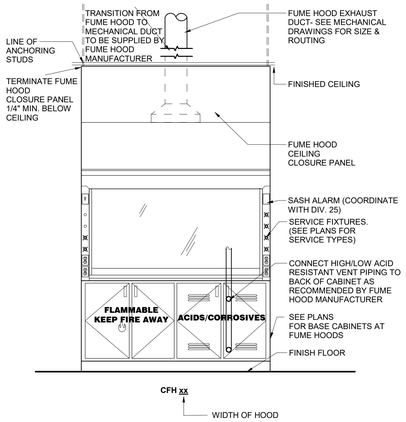
BASE CABINET NOMENCLATURE

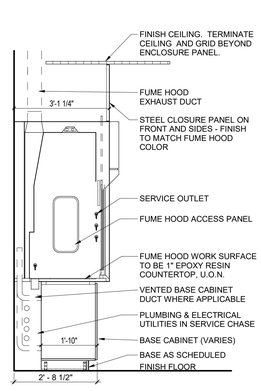
B X xx X *
- ** DENOTES CABINET LOCK
- DENOTES CABINET STYLE (SEE ADJACENT STYLE ELEVATIONS)
- DENOTES CABINET WIDTH
- DENOTES CABINET TYPE: C = CART STORAGE (40") S = STANDING HEIGHT (36") A = ADA HEIGHT (34") L = SITTING HEIGHT (30") M = MOBILE CABINET H = SUSPENDED CABINET
- DENOTES BASE CABINET

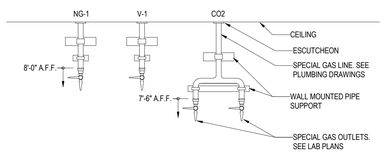
BENCH ASSEMBLY NOTES: (SEE FLOOR PLANS)

AW X xx X
- NO MARK = DEFAULT WHICHINCLUDES BENCH AND 3 TIER UPPER SHELVES Y = WITHOUT UPPER SHELVES Z = WITHOUT BENCH
- DENOTES UNIT WIDTH
- DENOTES BENCH HEIGHT (INSTALLED): C = CART STORAGE (40") S = STANDING HEIGHT (36") A = ADA HEIGHT (34") L = SITTING HEIGHT (30")
- DENOTES ASSEMBLY TYPE AW = WALL MOUNTED BENCH ASSEMBLY AP = PENINSULA BENCH ASSEMBLY

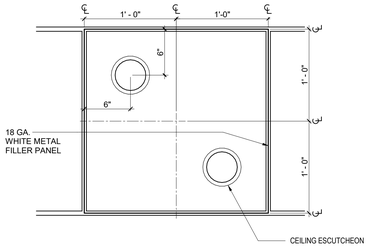
HOODS - CHEMICAL FUME HOOD



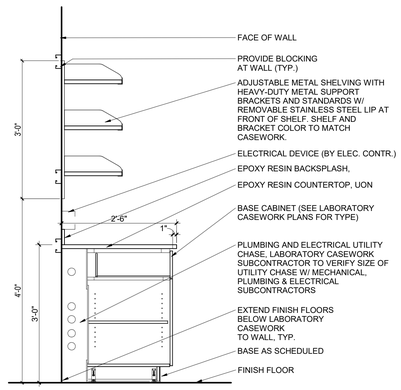




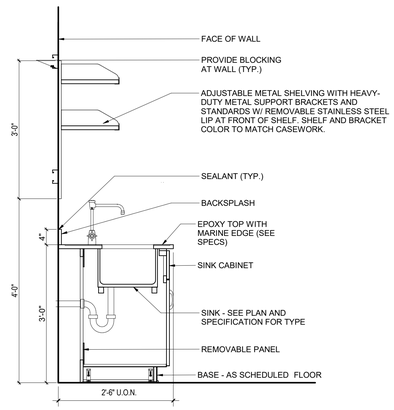
4 SPECIAL GAS OUTLET - WALL MOUNTED
1" = 1'-0"



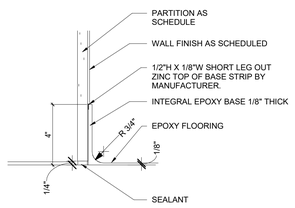
5 TYPICAL CEILING PLAN DETAIL AT SNORKELS
1 1/2" = 1'-0"



1 ADJ WALL SHELVING
3/4" = 1'-0"



2 SECTION @ TYPICAL WALL CASEWORK SINK
3/4" = 1'-0"



3 INTEGRAL COVE BASE DETAIL
3" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
28616
3/28/2018
REGISTERED ARCHITECT

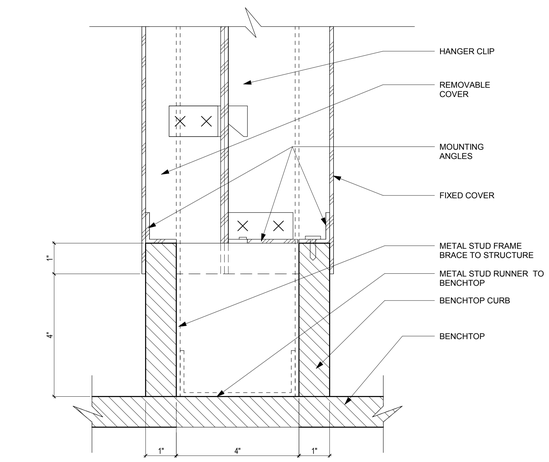
Sheet Name
LABORATORY CASEWORK LEGEND

Scale
As indicated

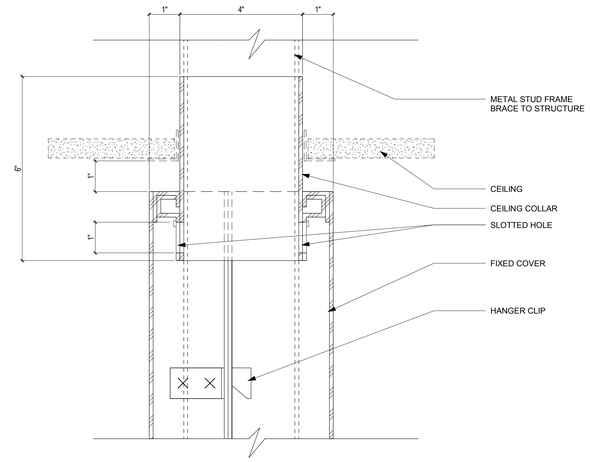
Sheet Number
AQ-501

Project Status
CONSTRUCTION DOCUMENTS

4/3/2018 10:35:15 AM
C:\rvt\2017\10062179-A-NEW-CENTRAL_YULEE.rvt

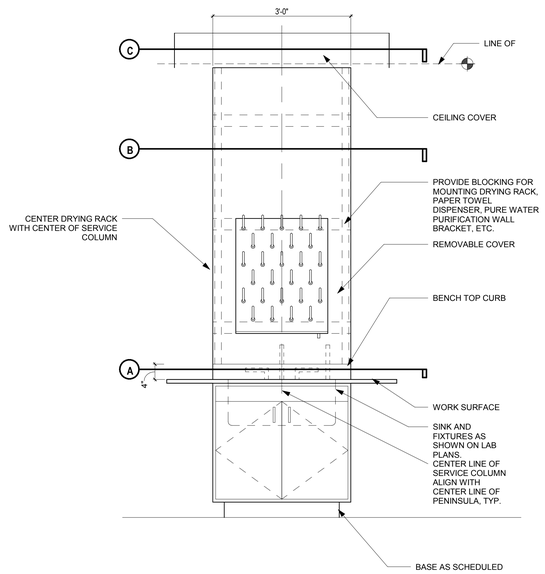


1 UMBILICAL - BENCH TOP CURB
6" = 1'-0"

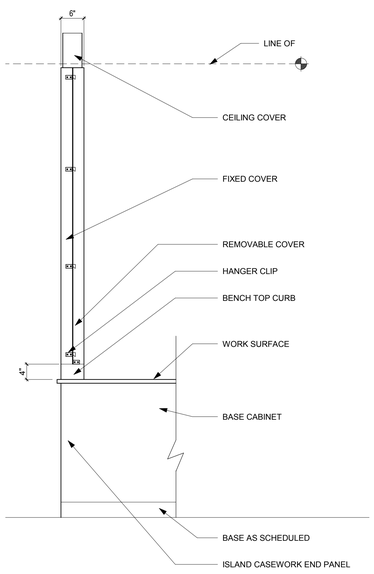


2 UMBILICAL - CEILING COLLAR DETAIL
6" = 1'-0"

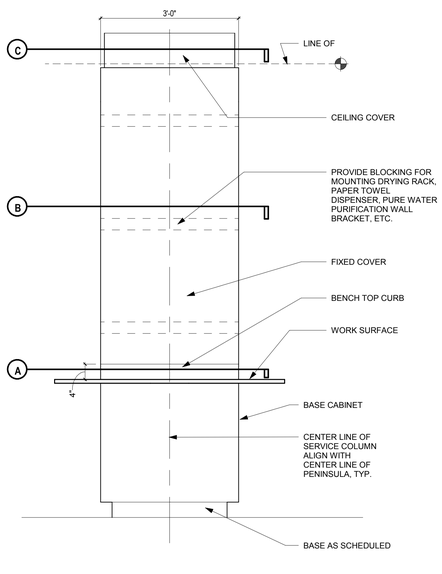
SERVICE COLUMN: SC-1
SINK SIDE

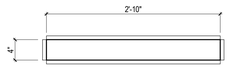


SERVICE COLUMN: SC-1
SIDE VIEW



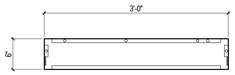
SERVICE COLUMN: SC-1
REAR VIEW





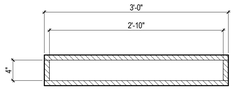
SC-1: ISLAND BENCH CONDITION

C SECTION - CEILING COLLAR
1" =1' -0"



SC-1: ISLAND BENCH CONDITION

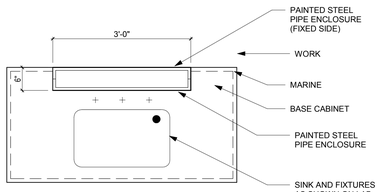
B SECTION - UMBILICAL COVER
1" =1' -0"



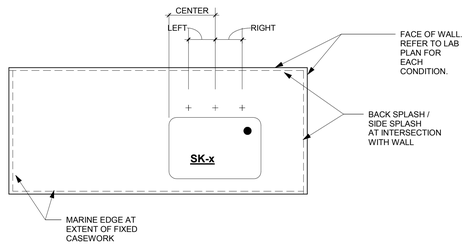
SC-1: ISLAND BENCH CONDITION

A SECTION - UMBILICAL CURB
1" =1' -0"

ISLAND SINK AND SERVICE COLUMN: SC-1 PLAN



CASEWORK SINK IN SUPPORT LAB



HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
LABORATORY CASEWORK DETAILS

Scale
As indicated

Sheet Number
AQ-502

Project Status
CONSTRUCTION DOCUMENTS

3/28/2018 4:50:29 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_MANGUS.rvt

FINISH LEGEND

WALL FINISHES

DIGITAL VINYL GRAPHIC

DVG-1 DIGITAL VINYL GRAPHIC (LOBBY GRAPHIC)
MANUFACTURER: MDC STUDIO SUEDE
IMAGE: PROVIDED BY ARCHITECT
DIMENSIONS: SEE PLANS AND ELEVATIONS

DVG-2 DIGITAL VINYL GRAPHIC (LAB SIGNAGE)
MANUFACTURER: MDC STUDIO SUEDE
IMAGE: PROVIDED BY ARCHITECT
DIMENSIONS: SEE PLANS AND ELEVATIONS

INTERIOR PAINTING

PT-1 PAINT (TYPICAL)
MANUFACTURER: BENJAMIN MOORE
COLOR: OC-118 SNOWFALL WHITE
EGGSHELL

PTE-1 PAINT (EPOXY) AUTOCLAVE
MANUFACTURER: TBD
COLOR: MATCH PT-1
FINISH: SEMI GLOSS

PT-2 PAINT (ACCENT)
MANUFACTURER:SHERWIN WILLIAMS
COLOR: SW 6400 LUCENT YELLOW
EGGSHELL

PT-3 PAINT (ACCENT)
MANUFACTURER:SHERWIN WILLIAMS
COLOR: SW 6696 QUILT GOLD
EGGSHELL

PT-4 PAINT (ACCENT)
MANUFACTURER:SHERWIN WILLIAMS
COLOR: SW6711 PARAKEET
EGGSHELL

PT-5 PAINT (ACCENT)
MANUFACTURER:SHERWIN WILLIAMS
COLOR: 6774 FRESHWATER
EGGSHELL

PT-6 PAINT (ACCENT)
MANUFACTURER:SHERWIN WILLIAMS
COLOR: 6775 BRINY
EGGSHELL

PT-7 PAINT (ACCENT)
MANUFACTURER:SHERWIN WILLIAMS
COLOR: 6438 DILL
EGGSHELL

PT-8 PAINT (ACCENT)
MANUFACTURER: SHERWIN WILLIAMS
COLOR: 7048 URBANE BRONZE
EGGSHELL

MARKERBOARDS / TACKBOARDS

1

MB-1 MARKERBOARD (COLLABERATION)
CLARUS GLASSBOARDS
COLORS BY CLARUS
CUSTOM PAINT - C100 MAGNETIC

MB-2 NOT USED

MB-3 NOT USED

MB-4 MARKERBOARD (LAB)
SEE SPECIFICATIONS

TB-1 TACKBOARD WALLCOVERING
FORBO
BULLETIN BOARD 2208 - GREY
SEE ELEVATION FOR LAYOUT AND SIZE

2

TB-2 TACKBOARD WALLCOVERING
FORBO
BULLETIN BOARD 2213 - GREEN
SEE ELEVATION FOR LAYOUT AND SIZE

FLOOR FINISHES

CARPET TILE

CPT-1 CARPET TILE (COLLABORATION AREA)
SHAW
BEYOND THE FOLD 5T058
TWINE 59156

CPT-2 CARPET TILE (OPEN OFFICES)
SHAW
COLOR SHIFT HEXAGON 5T161
80% LIGHT GRAY
10% GREEN
10% BLUE

CPT-3 CARPET TILE (PRIVATE OFFICES / CONF RMS)
SHAW
COLOR SHIFT HEXAGON 5T161
45% LIGHT GRAY
45% DARK GRAY
5% GREEN
5% BLUE

TILE FLOORING

T-1 PORCELAIN TILE (RESTROOM FLOORS / BASE TRIM)
DALTILE
DIGNITARY, 12x24 SAM TEXTURED
DR08 SUPERIOR TAUPE STD
NOTE: USE SCHLUTER COVE BASE TRIM

SEALED CONCRETE

CFS-1 POLISHED CONCRETE (MAIN CIRCULATION)
PRODUCT: MATTE POLISHED AND SEALED

CFS-2 CONCRETE SEALER (BACK-OF-HOUSE)
PRODUCT: LATICRETE DRESS AND SEAL

SEAMLESS EPOXY FLOORING

1

SEF-1 STONHARD
STONSHIELD UTS
COLOR: MANUF. STANDARD COLORS
INTEGRAL 6" COVE BASE

QUARTZ TILE

RT-1 QUARTZ TILE (TYPICAL SOLID COLOR)
RIKETT 24" X 24"
8801 FROST MIX

RT-2 QUARTZ TILE (LAB ACCENTS)
RIKETT 24" X 24"
RT-2A 80% SILVER CLOUD 8803
RT-2B 8% GUACAMOLE 8841
RT-2C 8% JUNGLE 8943
RT-2D 4% BEACH 8923
SEE PLANS FOR LAYOUT

TILE

T-2 PORCELAIN TILE (RESTROOM WALLS)
DALTILE
DIGNITARY, 12x24 SAM LIGHT POLISHED
DR08 SUPERIOR TAUPE STD

T-3 GLASS TILE (BACKSPLASHES)
CLARUS GLASSBOARDS
COLORS BY CLARUS
CUSTOM COLOR C100 MAGNETIC

T-4 PORCELAIN TILE (RESTROOM WALLS ACCENT)
DALTILE
DIGNITARY, 12x24 SAM LIGHT POLISHED
DR07 LUMINARY WHITE TEXTURED

OTHER FINISHES

ACOUSTIC CEILING MATERIAL

ACM-1 ACOUSTIC CEILING TILE (TYPICAL)
ARMSTRONG ULTIMA TEGULAR 2x2
PRELUDE XL 15/16"
COLOR: FACTORY WHITE

ACM-2 ACOUSTIC CEILING TILE (CLEANABLE)
ARMSTRONG CERAMIGUARD 2x2
PRELUDE ENVIRONMENTAL GRID
FACTORY WHITE

ACM-3 ACOUSTIC CEILING BAFFLES
MDC WALLCOVERINGS
ZINTRA ACOUSTIC CEILING BAFFLES, 10" RIDGES
COLOR: GREY
NOTES: SEE RCP FOR SEGMENT SIZES

DECORATIVE FILM

DF-1 DECORATIVE FILM (PRIVATE OFFICES)
MANUFACTURER: 3M
PRODUCT: TBD
IMAGE / COLOR: IMAGE TO BE PROVIDED BY ARCHITECT

DF-2 DECORATIVE FILM (CONFERENCE ROOMS)
MANUFACTURER: TBD
PRODUCT: TBD
IMAGE / COLOR: IMAGE TO BE PROVIDED BY ARCHITECT

DF-3 DECORATIVE FILM (LABS)
NOT USED

ENGINEERED QUARTZ FABRICATIONS

EQF-1 ENGINEERED QUARTZ (TYPICAL COUNTERTOPS)
CAMBRIA
DESERT COLLECTION
COLOR: WHITEHALL

PLASTIC LAMINATE

PL-1 PLASTIC LAMINATE (ARCHITECTURAL WOODWORK)
INTERIOR ARTS
MELLOW OAK NATURAL
3009NAT

PL-2 PLASTIC LAMINATE (COLLABERATION COUNTERTOP)
NEVAMAR
KOOL KIWI SS057T
TEXTURED

RESILIENT BASE

RB-1 RUBBER BASE (TYPICAL)
ROPPE
PRODUCT: 4" COVE BASE
COLOR: BLACK BROWN

TEXTILES

FB-1 FABRIC (SEAT IN CONFERENCE ROOM)
CARNEGIE
MAXWELL STREET 6416 13

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

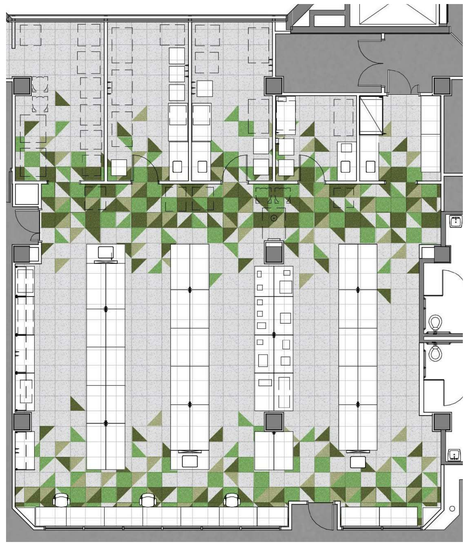
Sheet Name
INTERIOR NOTES AND FINISH LEGEND

Scale

Sheet Number
I-001

Project Status
CONSTRUCTION DOCUMENTS

4/19/2018 5:07:15 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt



D1 RT INSTALLATION PATTERN DESIGN INTENT
1" = 100'-0"

FINISH PLAN GENERAL NOTES

1. ALL WALLS TO BE PAINTED PT-1 UNO. SEE FINISH PLANS FOR ACCENT WALL LOCATIONS
2. ALL DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT WALL UNO
3. ALL CONCRETE FLOOR THAT IS TO REMAIN EXPOSED TO BE CLEANED AND PROTECTED THROUGH-OUT CONSTRUCION
4. REFER TO FINISH LEGEND ON SHEET I-001 FOR FINISH CODE SPECIFIC INFORMATION
5. REFER TO REFLECTED CEILING PLANS FOR CEILING FINISHES
6. MB-1 GLASS BOARDS TO BE MOUNTED 3' AFF (PRODUCT IS 4' HIGH, LENGTH INDICATED ON PLAN)
7. DVG-2: REFER TO B1/A-413 FOR ELEVATION OF EXTENTS AND INTENT
8. TB-1&2: REFER TO A-413 FOR ELEVATION OF EXTENTS AND INTENT
9. ALL FLOORING TRANSITIONS BETWEEN CONCRETE AND EPOXY/TILE TO BE SMOOTH WITH LESS THAN 1/4" CHANGE IN LEVEL AND WITH A MAXIMUM SLOPE OF 1:2.

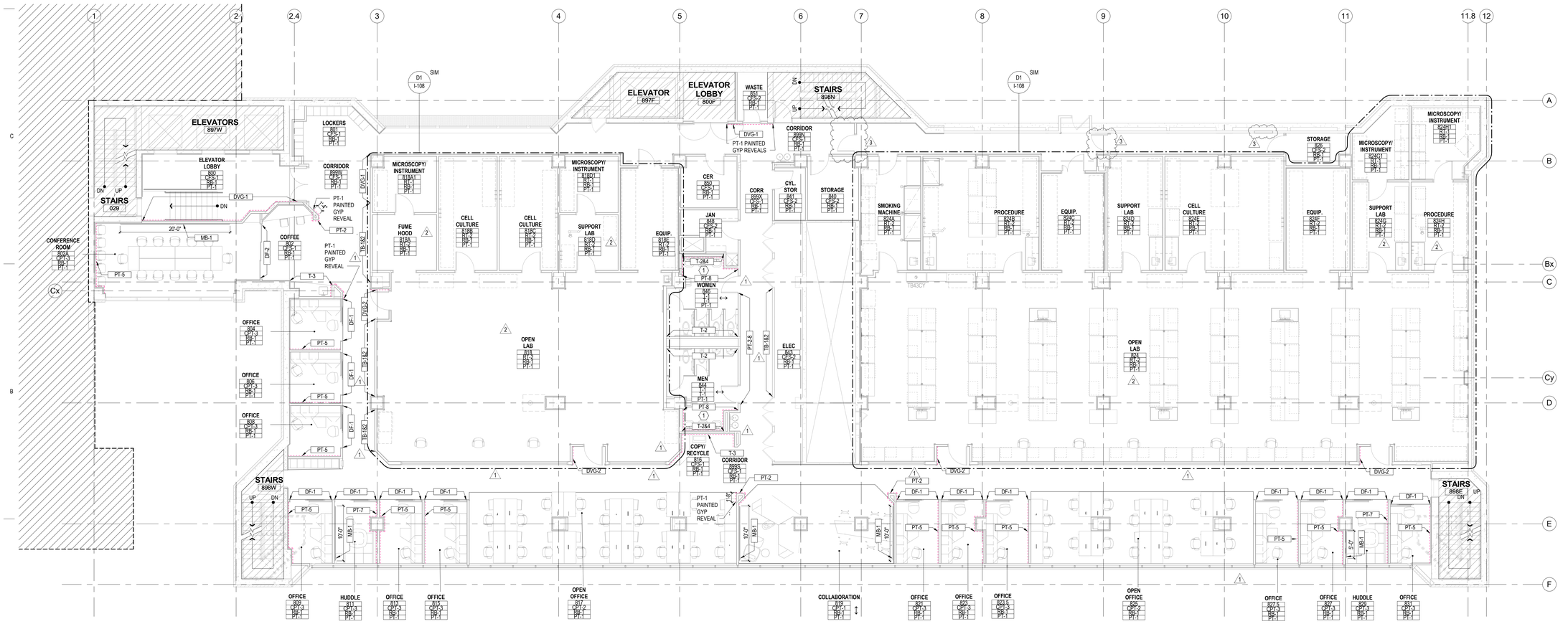
FINISH PLAN LEGEND

ROOM NAME / NUMBER / FLOOR / BASE / WALL

- ROOM NUMBER
- FLOOR FINISH CODE
- FLOOR FINISH INSTALL DIRECTION (IF APPLICABLE)
- BASE FINISH CODE
- WALL FINISH CODE
- WALL — WALL FINISH ACCENT TAG
- NOT IN CONTRACT

SHEET SPECIFIC NOTES I-108

1 ALIGN PT-8 WITH T-4 ACCENT WALL TILE



A1 FINISH FLOOR PLAN - EIGHTH FLOOR
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2
3	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
FINISH FLOOR PLAN - EIGHTH FLOOR

Scale
As indicated

Sheet Number
I-108

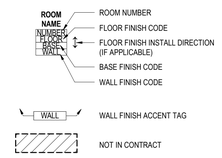
Project Status
CONSTRUCTION DOCUMENTS

4/19/2018 5:31:07 PM
C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

FINISH PLAN GENERAL NOTES

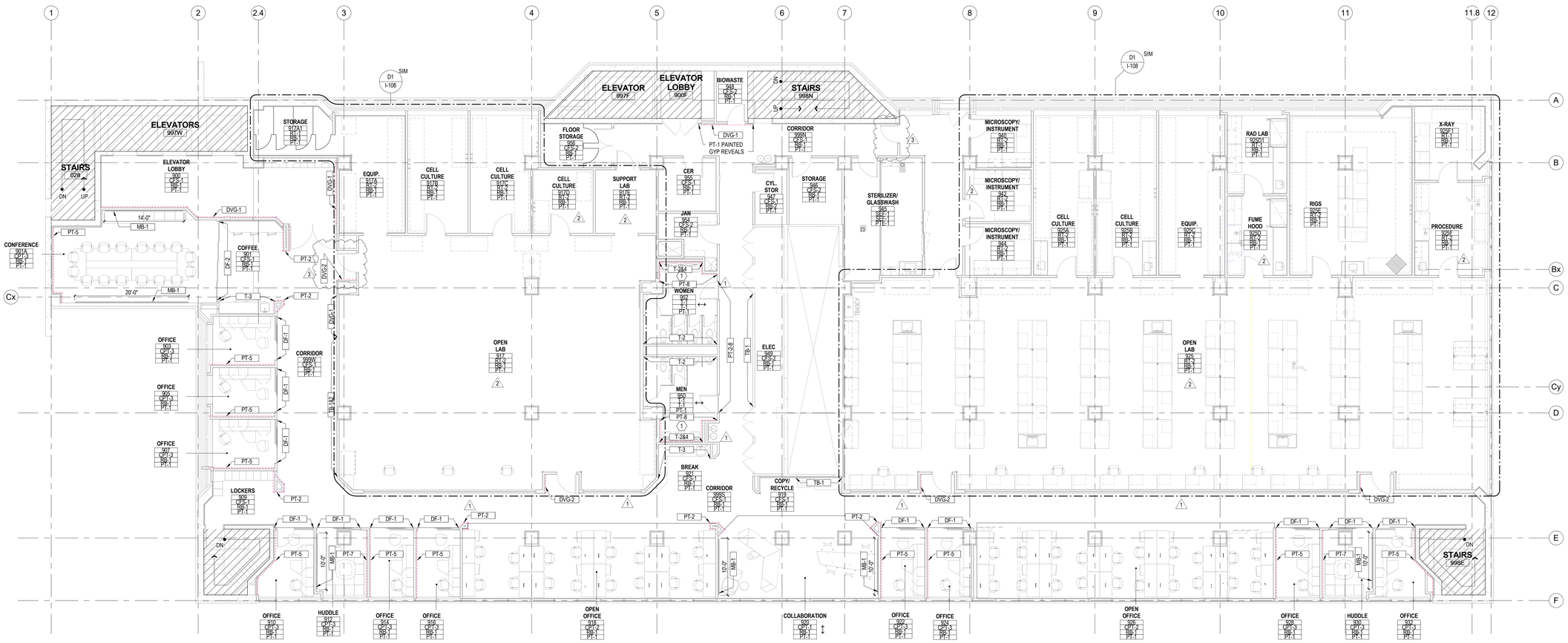
1. ALL WALLS TO BE PAINTED PT-1 UNO. SEE FINISH PLANS FOR ACCENT WALL LOCATIONS
2. ALL DOOR FRAMES TO BE PAINTED TO MATCH ADJACENT WALL UNO
3. ALL CONCRETE FLOOR THAT IS TO REMAIN EXPOSED TO BE CLEANED AND PROTECTED THROUGH-OUT CONSTRUCION
4. REFER TO FINISH LEGEND ON SHEET I-001 FOR FINISH CODE SPECIFIC INFORMATION.
5. REFER TO REFLECTED CEILING PLANS FOR CEILING FINISHES
6. MB-1 GLASS BOARDS TO BE MOUNTED 3' AFF (PRODUCT IS 4' HIGH, LENGTH INDICATED ON PLAN)
7. DVG-2: REFER TO B1/A-413 FOR ELEVATION OF EXTENTS AND INTENT
8. TB-1&2: REFER TO A-413 FOR ELEVATION OF EXTENTS AND INTENT
9. ALL FLOORING TRANSITIONS BETWEEN CONCRETE AND EPOXY/TILE TO BE SMOOTH WITH LESS THAN 1/4" CHANGE IN LEVEL AND WITH A MAXIMUM SLOPE OF 1:2.

FINISH PLAN LEGEND



SHEET SPECIFIC NOTES I-109

1. ALIGN PT-8 WITH T-4 ACCENT WALL TILE



A1 FINISH FLOOR PLAN - NINTH FLOOR

1/8" = 1'-0"

4/19/2018 5:07:30 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2
3	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
7816
3/28/2018
REGISTERED ARCHITECT

Sheet Name

FINISH FLOOR PLAN - NINTH FLOOR

Scale

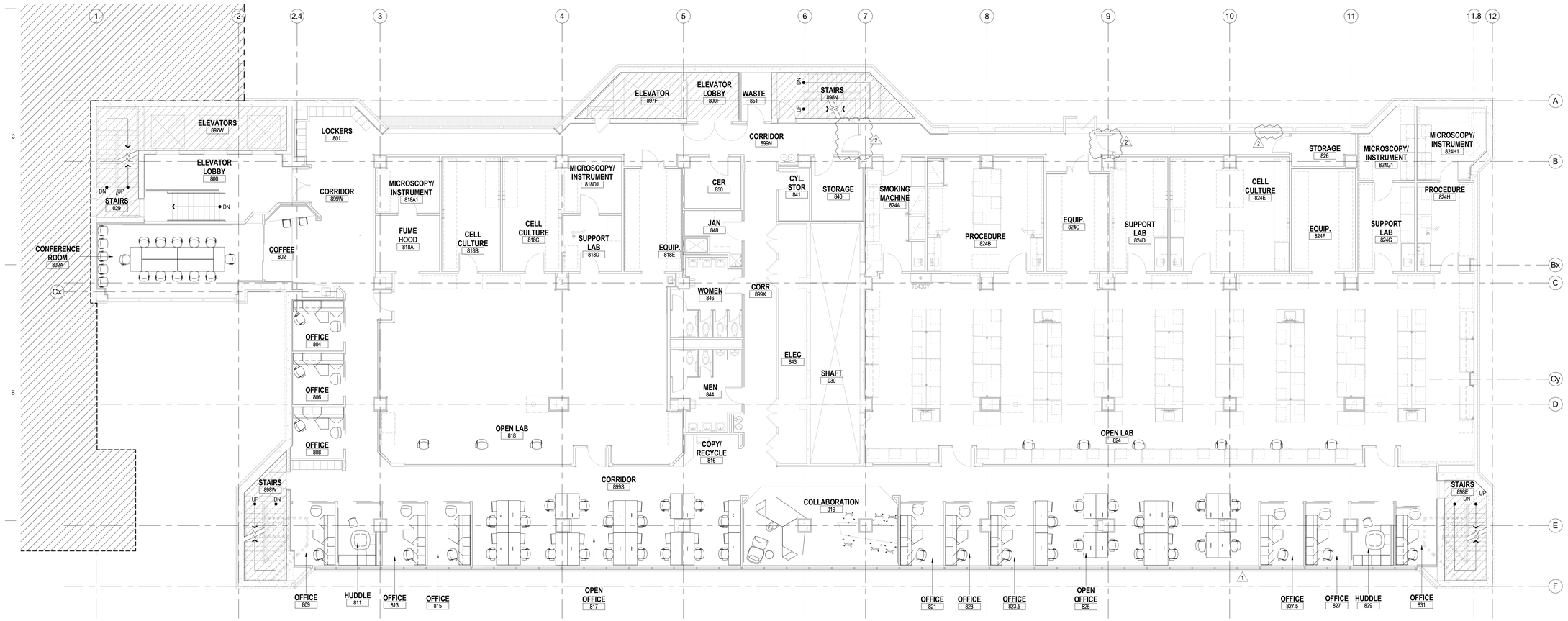
1/8" = 1'-0"

Sheet Number

I-109

Project Status

CONSTRUCTION DOCUMENTS



A1 INTERIOR FURNITURE PLAN - EIGHTH FLOOR (ALL FURNITURE IS OFOI - THIS DRAWING PROVIDED FOR REFERENCE ONLY)

1/8" = 1'-0"

4/19/2018 5:07:37 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-20	ADDENDUM #3

Project Number 10062179

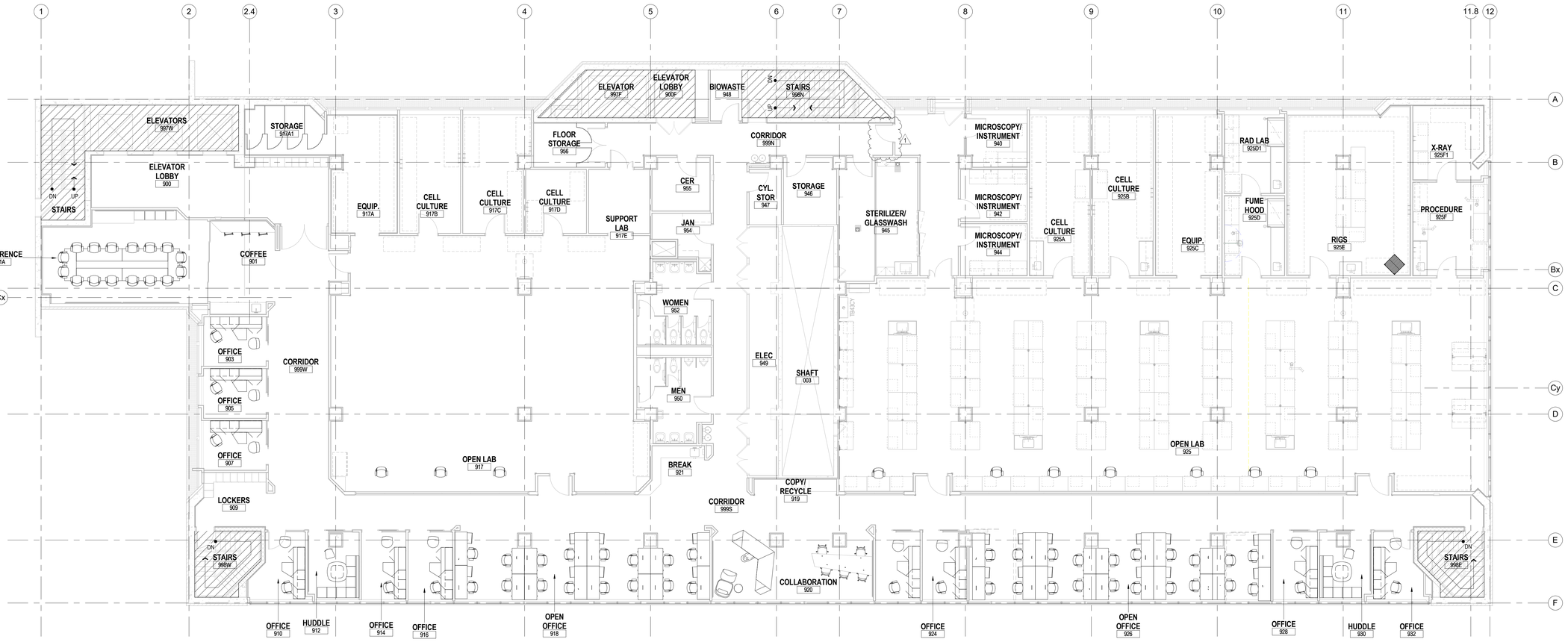
STATE of ALABAMA
JEFFERY A MINTON
20006
2816
3/28/2018
REGISTERED ARCHITECT

Sheet Name
INTERIOR FURNITURE PLAN - EIGHTH FLOOR

Scale
1/8" = 1'-0"

Sheet Number
IF-108

Project Status
CONSTRUCTION DOCUMENTS



A1 INTERIOR FURNITURE PLAN - NINTH FLOOR (ALL FURNITURE IS OFOI - THIS DRAWING PROVIDED FOR REFERENCE ONLY)

1/8" = 1'-0"

4/19/2018 5:07:44 PM

C:\rvt\2017\10062179-A-NEW-CENTRAL_ZAMES.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-20	ADDENDUM #3

Project Number 10062179

STATE of ALABAMA
JEFFERY A MINTON
28616
3/28/2018
REGISTERED ARCHITECT

Sheet Name

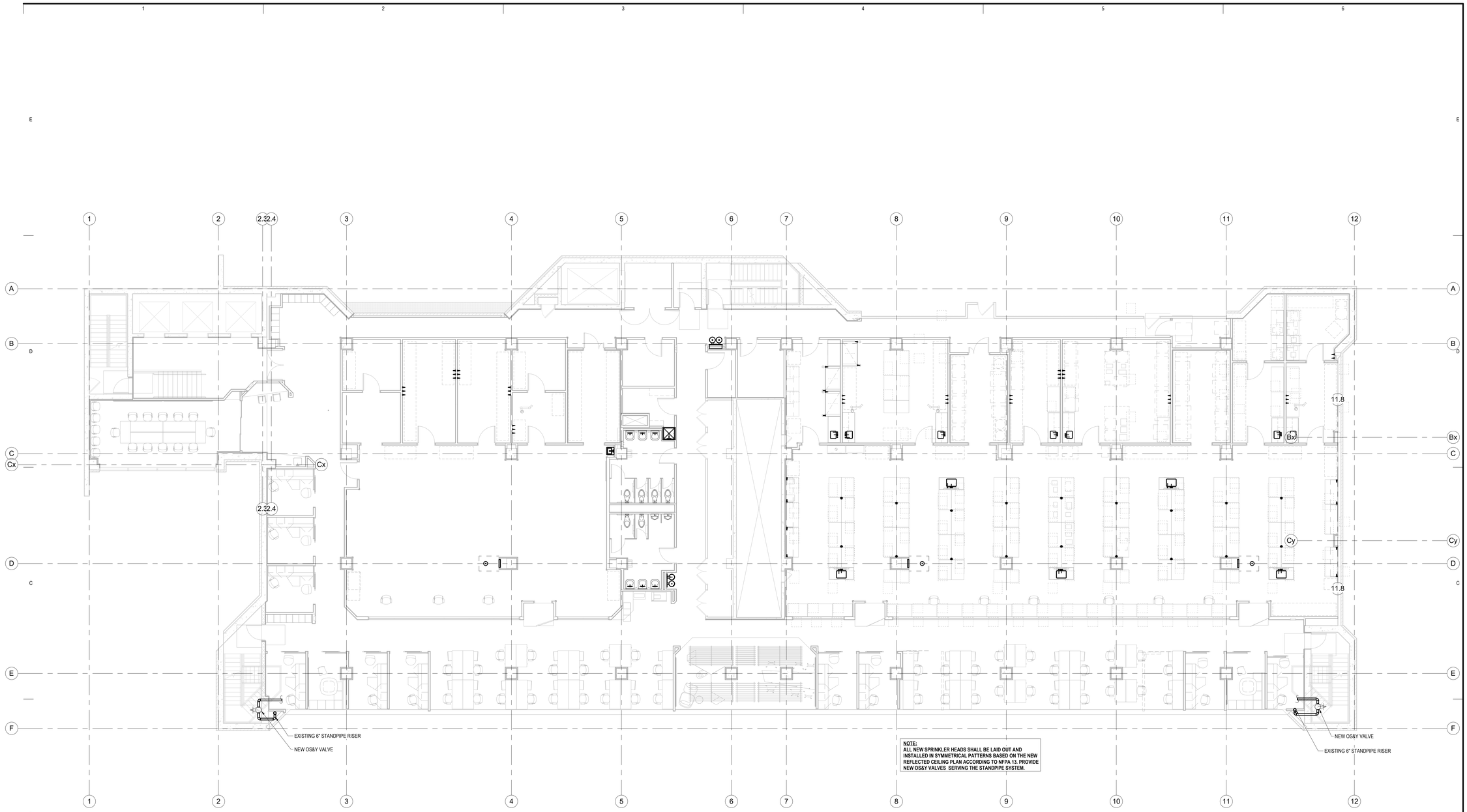
INTERIOR FURNITURE PLAN - NINTH FLOOR

Scale
1/8" = 1'-0"

Sheet Number

IF-109

Project Status
CONSTRUCTION DOCUMENTS



1 08_8TH FLOOR - FIRE PROTECTION PLAN
1/8" = 1'-0"

3/28/2018 1:53:10 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	11/16/17 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name

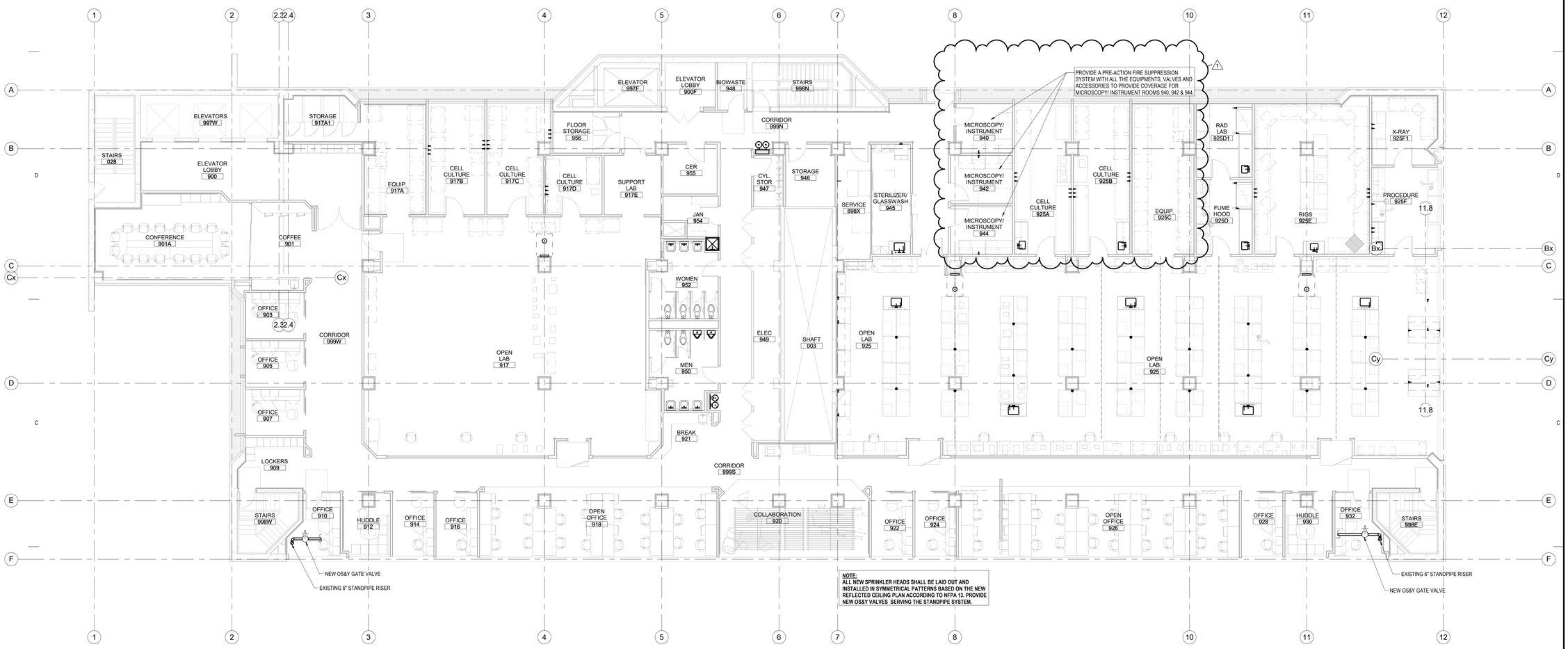
8TH FLOOR FIRE POTECTION PLAN

Scale
1/8" = 1'-0"

Sheet Number

FP-108

Project Status
CONSTRUCTION DOCUMENTS



1 09_9TH FLOOR - FIRE PROTECTION PLAN
1/8" = 1'-0"

4/3/2018 2:38:27 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1

Project Number	10062179
Original Issue	11/16/17 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM C. ZWATTLER
3-28-18

Sheet Name

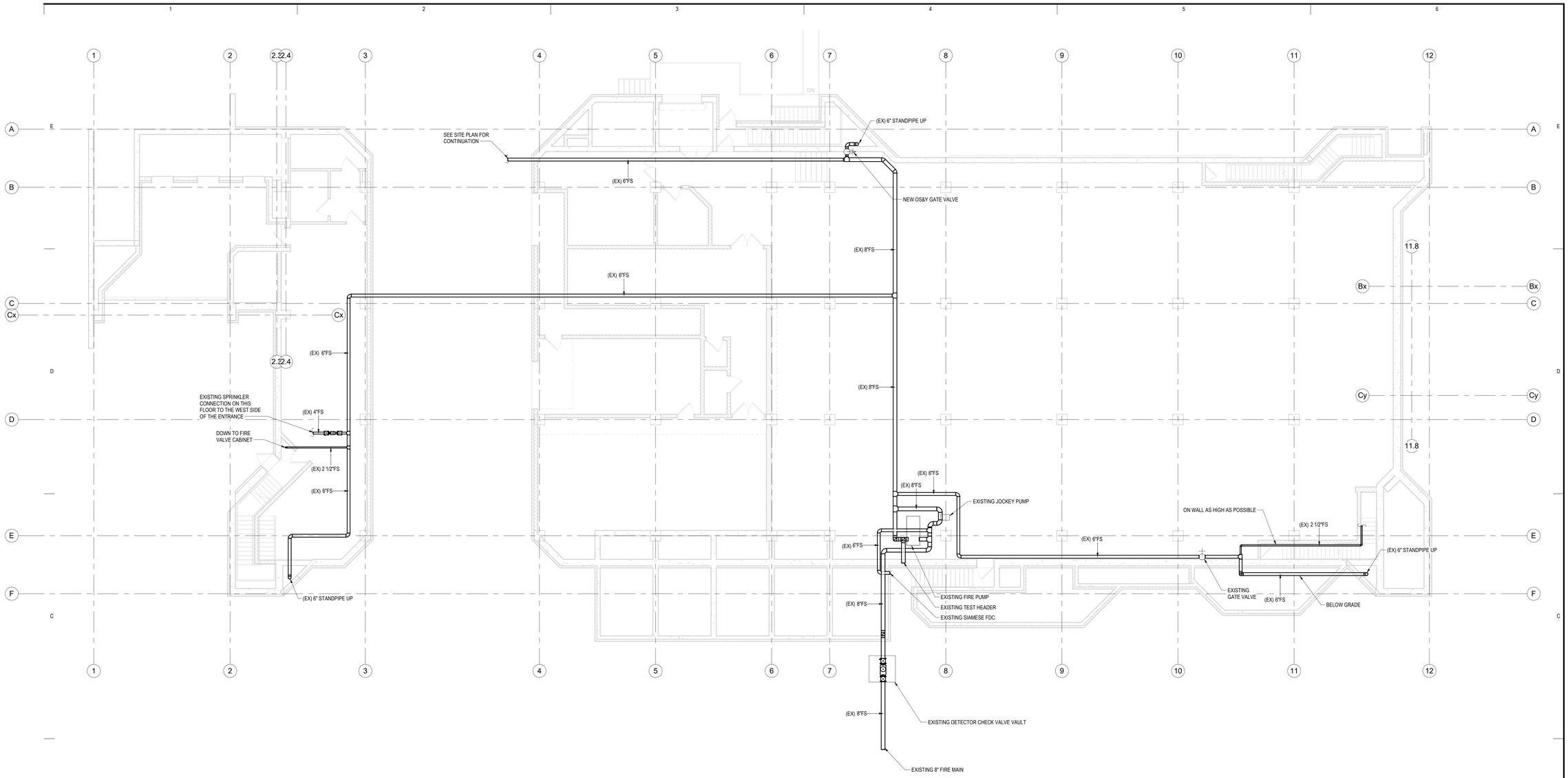
9TH FLOOR FIRE PROTECTION PLAN

Scale
1/8" = 1'-0"

Sheet Number

FP-109

Project Status
CONSTRUCTION DOCUMENTS



1 01_GROUND FLOOR - FIRE PROTECTION PLAN
1/8" = 1'-0"

3/28/2018 1:53:03 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	01/29/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM CONNER ZANATTA JR.
3-28-18

Sheet Name

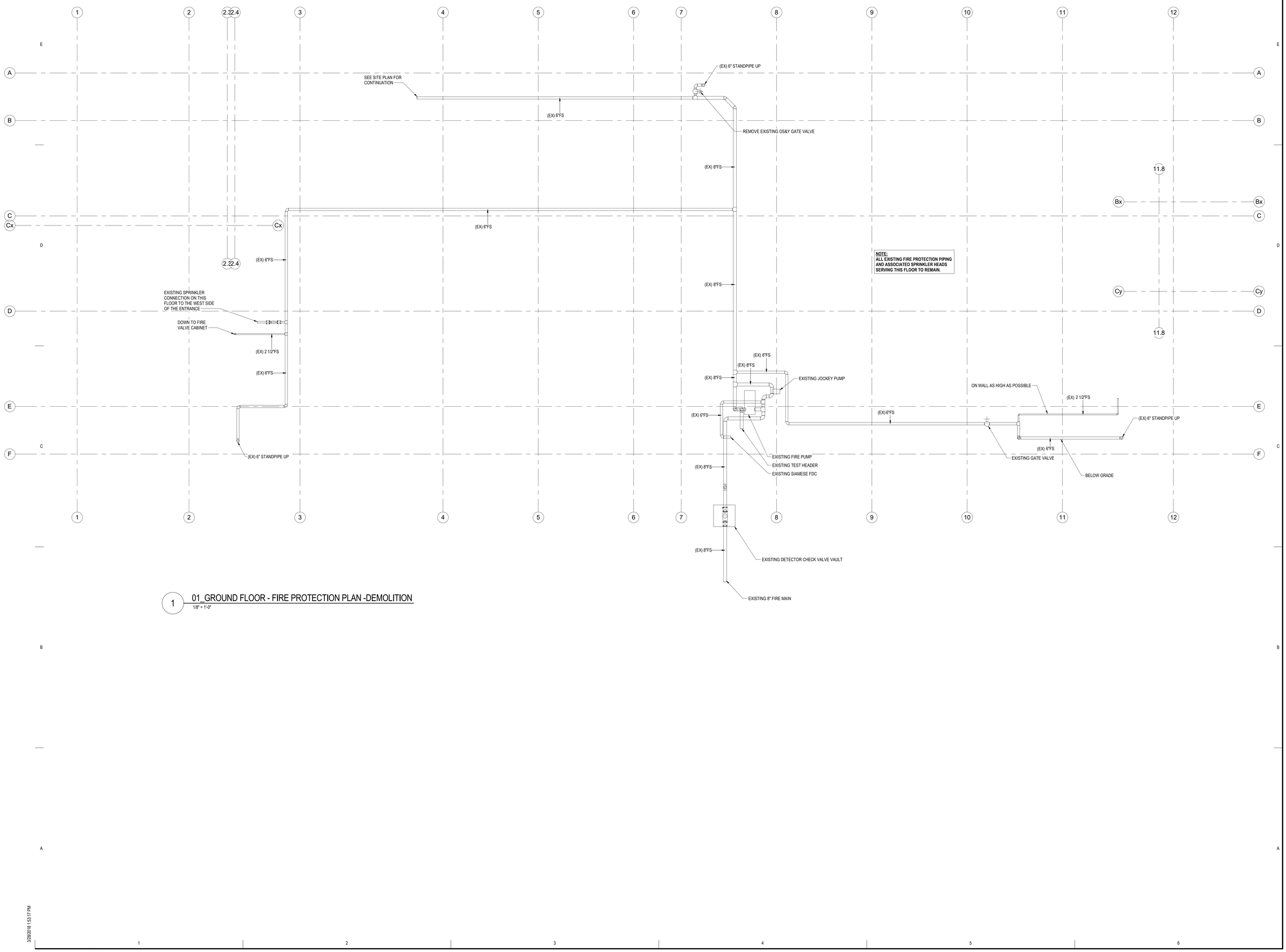
GROUND FLOOR FIRE PROTECTION PLAN

Scale
1/8" = 1'-0"

Sheet Number

FP-101

Project Status
CONSTRUCTION DOCUMENTS



1 01_GROUND FLOOR - FIRE PROTECTION PLAN -DEMOLITION
1/8" = 1'-0"

3/29/2018 1:53:17 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	01/29/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL WILLIAM ENGINEER JR. COLLE ZWATKINS JR. 3-28-18

Sheet Name

GROUND FLOOR DEMOLITION FIRE PROTECTION PLAN

Scale

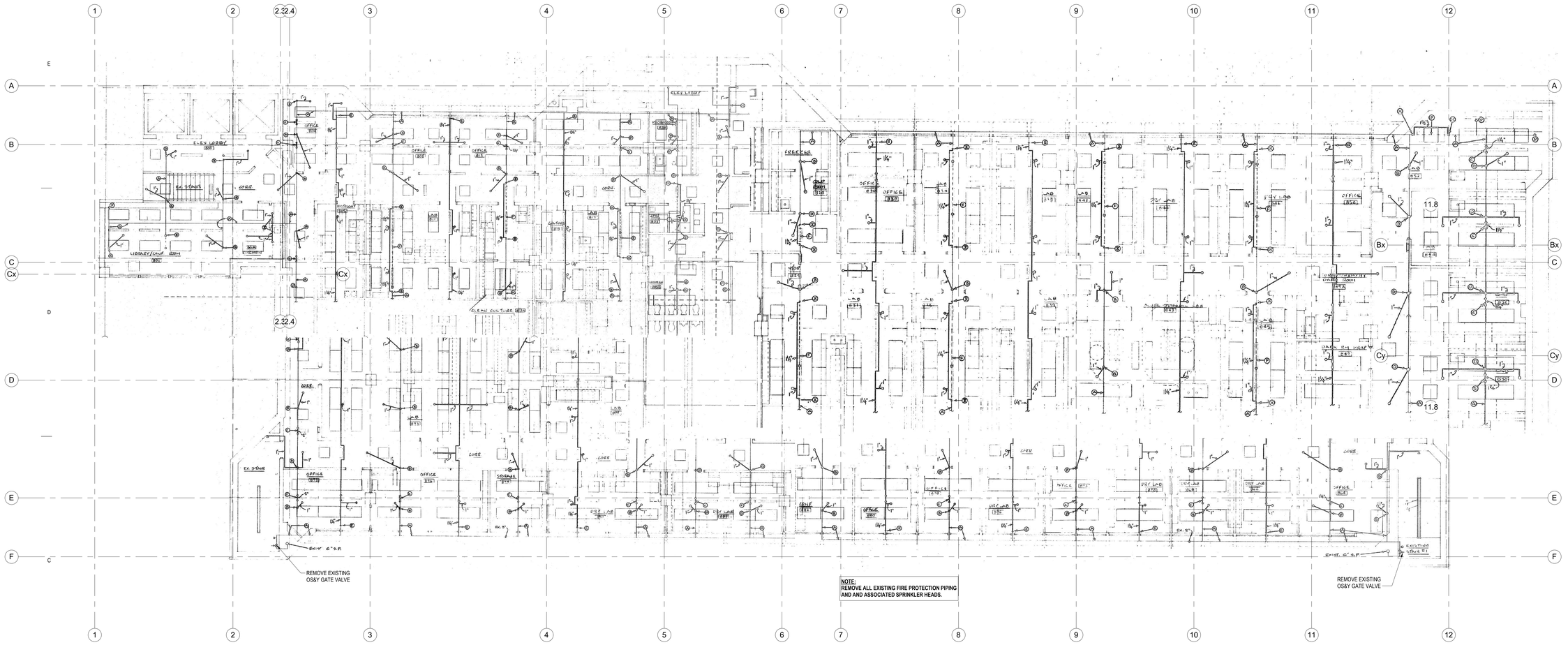
1/8" = 1'-0"

Sheet Number

FPD-101

Project Status

CONSTRUCTION DOCUMENTS



1 08_EIGHTH FLOOR - FIRE PROTECTION PLAN-DEMOLITION
1/8" = 1'-0"

3/28/2018 1:53:20 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	01/29/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM CRAIG ZANATTA JR.
3-28-18

Sheet Name

8TH FLOOR FIRE PROTECTION DEMOLITION PLAN

Scale

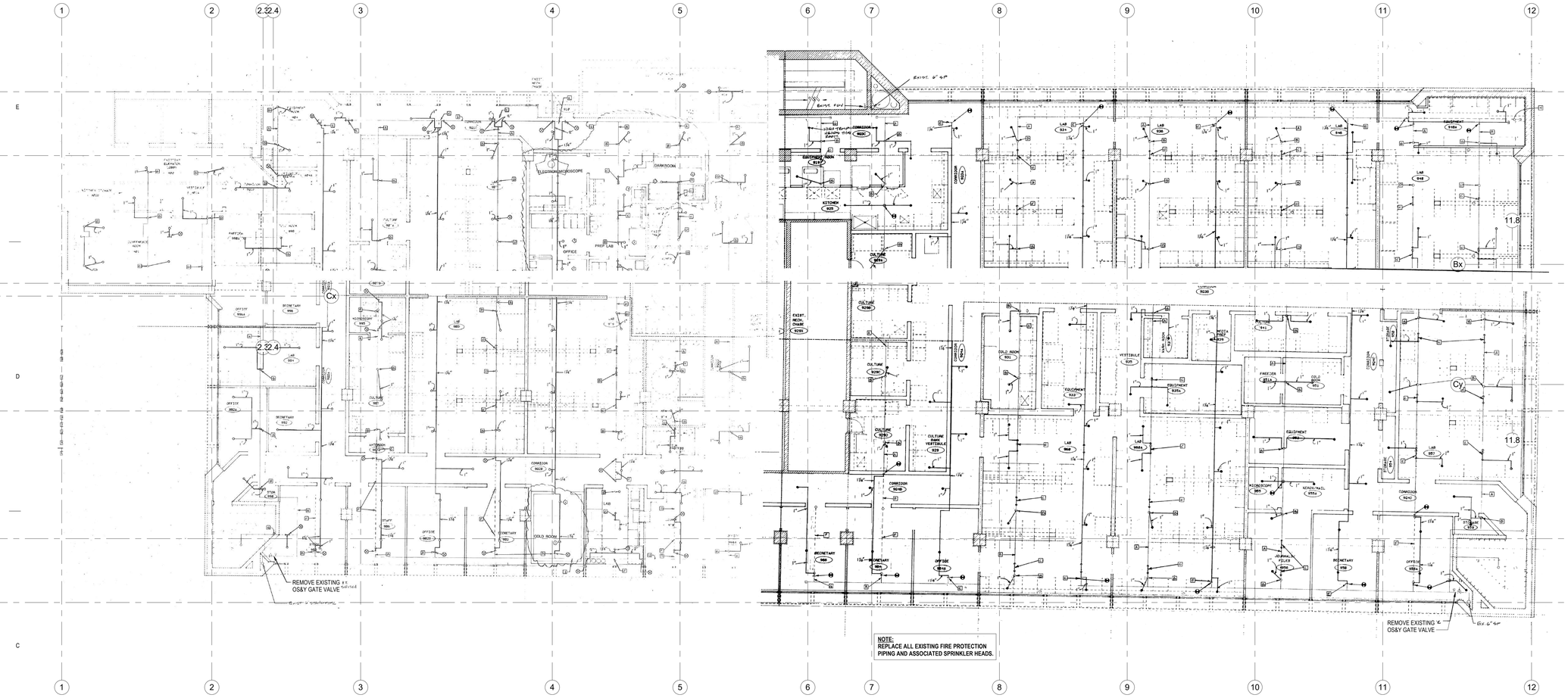
1/8" = 1'-0"

Sheet Number

FPD-108

Project Status

CONSTRUCTION DOCUMENTS



1 09_NINTH FLOOR - FIRE PROTECTION PLAN-DEMOLITION
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	01/29/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM ZAVATKAY JR.
3-28-18

Sheet Name

9TH FLOOR FIRE PROTECTION DEMOLITION PLAN

Scale
1/8" = 1'-0"

Sheet Number

FPD-109

Project Status
CONSTRUCTION DOCUMENTS

3/28/2018 1:53:24 PM
C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

SYMBOLS

DCW — DOMESTIC COLD WATER

DHW — DOMESTIC HOT WATER

DHWR — DOMESTIC HOT WATER RETURN

LCW — LAB COLD WATER

LHW — LAB HOT WATER

LHWR — LAB HOT WATER RETURN

LW — LAB WASTE

SS — SANITARY WASTE

V — SANITARY VENT

LV — LAB VENT

PWS — PURIFIED WATER SUPPLY

PWR — PURIFIED WATER RETURN

TWS — TEPID WATER SUPPLY

TWR — TEPID WATER RETURN

CO2 — CARBONDIOXIDE

VAC — VACUUM

RD — ROOF DRAIN

SHUT-OFF VALVE

CHECK VALVE

CIRCULATION PUMP/MOTOR

BALANCING VALVE

SHOCK ARRESTOR

BACK FLOW PREVENTER

DIRECTION OF FLOW

PIPE DOWN, DROP OR RISE

PIPE RISE UP AND OR DOWN

FLOOR DRAIN/ FLOOR SINK

HB — HOSE BIBB

PIPE CAP

FCO — CLEANOUT IN FLOOR/SLAB

CO — CLEANOUT ABOVE FLOOR

PRESSURE GAUGE

X (PLAN OR DETAIL NUMBER)
X (DRAWING NUMBER) — PLAN OR DETAIL REFERENCE

ABBREVIATIONS

@	AT
AAV	AIR ADMITTANCE VALVE
ABV	ABOVE
AD	AREA DRAIN
A/E	ARCHITECT/ENGINEER
AFF	ABOVE FINISH FLOOR
ASSY	ASSEMBLY
BEL	BELOW
BFP	BACKFLOW PREVENTER
BLDG	BUILDING
BMS	BUILDING MANAGEMENT SYSTEM
BOP	BOP(DIMENSION)-BOTTOM
BTU	BRITISH THERMAL UNIT
CAP	CAPACITY
CFM	CUBIC FEET PER MINUTE
CFS	CUBIC FEET PER SECOND
CL	CENTER LINE
CLG	CEILING
CO	CLEANOUT
CONC	CONCRETE
CONN	CONNECTION
CONT	CONTINUOUS/CONTINUED
CORR	CORRIDOR
CS	CUP SINK
CU FT	CUBIC FEET
DEG F	DEGREES FARENHEIT
DEPT	DEPARTMENT
DIA	DIAMETER
WBP	DOMESTIC BOOSTER PUMP
DWG	DRAWING
EA	EACH
EL	ELEVATION
ELEC	ELECTRIC/ELECTRICAL
EQ	EQUAL
EQUIP	EQUIPMENT
EW	EYE WASH
ERD	EMERGENCY ROOF DRAIN
EXH	EXHAUST
EXIST	EXISTING
EXP	EXPANSION
ET	EXPANSION TANK
EWH	ELECTRIC WATER HEATER
F	FIRE
FCO	FLOOR CLEANOUT
FLD	FLOOR DRAIN
FDN	FOUNDATION
FIN	FINISH
FL	FLOOR
FRP	FIBERGLAS REINFORCED PLASTIC
FS	FLOOR SINK
FT	FOOT, FEET
FTG	FOOTING
FU	FIXTURE UNIT
GAL	GALLON
GH	GROUND HYDRANT
GPD	GALLONS PER DAY
GPH	GALLON PER HOUR
GPM	GALLON PER MINUTE
HB	HOSE BIBB
HC	HANDICAPPED
HP	HORSEPOWER
HVAC	HEATING-VENTILATION-AIR CONDITIONING
HW	HOT WATER(DOMESTIC)
CP	HOT WATER PUMP (RECIRC.)
ID	INSIDE DIAMETER
IN	INCH(ES)
INV EL	INVERT ELEVATION
LAV	LAVATORY
LBS	POUNDS
MAX	MAXIMUM
MBH	1000 BTU/HR.
MECH	MECHANICAL
MFR	MANUFACTURER
MIN	MINIMUM
MPG	MEDIUM PRESSURE GAS
MSB	MOP SERVICE BASIN
NC	NORMALLY CLOSED
NIC	NOT IN CONTRACT
NO	NORMALLY OPEN
NPT	NATIONAL PIPE THREAD
NTS	NOT TO SCALE
OD	OUTSIDE DIAMETER
OFE	OWNERS FURNISH EQUIP.
PD	PERIMETER DRAIN
PG	PRESSURE GAUGE
PRESS	PRESSURE
PRV	PRESSURE REDUCING VALVE
PSIG	POUNDS PER SQUARE INCH, GAGE
RECIRC	RECIRCULATING
RD	PRIMARY ROOF DRAIN
RM	ROOM
RPM	REVOLUTION PER MINUTE
RPBP	REDUCED PRESSURE BACKFLOW PREVENTER
SA	SHOCK ABSORBER/ARRESTOR
SAN	SANITARY
SCFM	STANDARD CUBIC FEET PER MINUTE
SIM	SIMILAR
SK	SINK
SPEC	SPECIFICATION
SQ FT	SQUARE FOOT
SS	STAINLESS STEEL
STFM	STORM, FORCED MAIN
STD	STANDARD
SE	SEWAGE EJECTOR PUMP
SP	SUMP PUMP
SUP	ELEVATOR SUMP PUMP
TDH	TOTAL DYNAMIC HEAD
TEMP	TEMPERATURE
TG	TEMPERATURE GAUGE
THERM	THERMOMETER
TMV	THERMOSTATIC MIXING VALVE
TOP	TOP OF PIPE
TOS	TOP OF STEEL
T&P	TEMP. & PRESS. RELIEF VALVE
TYP	TYPICAL
VB	VACUUM BREAKER
VTR	VENT THRU ROOF
WC	WATER CLOSET
WCO	WALL CLEANOUT
W/	WITH
W/O	WITH OUT
WH	WALL HYDRANT

PLUMBING GENERAL NOTES

P1 DRAWINGS ARE DIAGRAMMATIC: DETERMINE LOCATIONS OF SYSTEMS AND COMPONENTS IN FIELD.

P2 DETERMINE EXACT LOCATIONS OF EXISTING UTILITIES IN THE FIELD, WHETHER OR NOT SHOWN ON DRAWINGS EXERCISE CAUTION AND IDENTIFY LOCATIONS OF UNMARKED UTILITY LINES AS NECESSARY TO PERFORM WORK OF THIS SECTION.

P3 ALL PLUMBING WORK SHALL BE IN ACCORDANCE WITH THE LATEST INTERNATIONAL PLUMBING CODE AND ALL APPLICABLE LOCAL CODES.

P4 IT SHALL BE THE RESPONSIBILITY OF THE PLUMBING CONTRACTOR TO COORDINATE THE WORK WITH THAT OF ALL OTHER TRADES, INCLUDING BUT NOT LIMITED TO, ELECTRICAL, HVAC, PROCESS PIPING, SPRINKLER, LAB EQUIPMENT, STRUCTURAL, AND GENERAL ARCHITECTURE.

P5 ANY INTERFERENCE SHALL BE BROUGHT TO THE ATTENTION OF THE ARCHITECT/ENGINEER AND SHALL BE RESOLVED PRIOR TO THE INSTALLATION OF THE WORK.

P6 ALL PIPING PENETRATING CEILING AND WALLS SHALL BE INSTALLED WITH ESCUTCHEONS AT THE PENETRATION. ALL PIPING PENETRATING EXTERIOR WALLS AND ROOFS SHALL BE FLASHED IN AN APPROVED MANNER AND SHALL BE SEALED WEATHERTIGHT. PIPING PENETRATING FIRE RATED PARTITIONS SHALL BE PROVIDED WITH FIRE RATED SEALS AS REQUIRED BY LOCAL CODE AUTHORITY.

P7 MANUFACTURERS' MODEL NUMBERS ARE SPECIFIED SOLELY TO ESTABLISH STANDARDS OF QUALITY FOR PERFORMANCE AND MATERIALS. INSTALLATION SHALL ADHERE TO MANUFACTURERS RECOMMENDATIONS.

P8 PROVIDE ACCESS PANELS TO SYSTEM COMPONENTS THAT ARE CONCEALED AND REQUIRE PERIODIC SERVICE.

P9 TOPS OF ALL FLOOR DRAINS SHALL BE SET FLUSH WITH FINISHED FLOOR. ALL PIPING ABOVE GRADE SHALL BE PROPERLY SUPPORTED BY THE BUILDING STRUCTURE AND SHALL NOT REST ON CEILING STRUCTURE OR COMPONENTS.

P10 PROVIDE SHUTOFF VALVES ON ALL BRANCH AND RISER PIPING AND ON ALL SUPPLIES TO INDIVIDUAL FIXTURES AND EQUIPMENT. PROVIDE BALL VALVES ON ALL WATER MAIN BRANCHES IN CORRIDORS AND WHERE INDICATED ON DRAWINGS.

P11 PROVIDE CLAMPS, OFFSETS, EXPANSIONS JOINTS, ANCHORS AND GUIDES AS NECESSARY TO PREVENT STRESS ON PIPING.

P12 VERIFY EXACT SIZES, LOCATIONS, INVERTS AND ELEVATIONS PRIOR TO RUNNING ANY PIPING. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT LOCATIONS OF FIXTURES AND EQUIPMENT.

P13 REFERENCE FIXTURE CONNECTION SCHEDULE FOR LINE SIZES NOT SHOWN.

P14 CONNECT TO SANITARY SEWER PROVIDED BY SITE CONTRACTOR, AT A POINT APPROXIMATELY 5'-0" OUTSIDE OF BUILDING. CONFIRM EXACT LOCATION OF TIE-IN AND COORDINATE REQUIREMENTS FOR TIE-IN WITH SITE CONTRACTOR.

P15 ALL PIPING SHALL BE CONCEALED IN WALLS AND BEHIND FIXTURES UNLESS OTHERWISE INDICATED.

P16 ALL OPENINGS IN DRAINAGE AND/OR VENT SYSTEMS AS A RESULT OF INSTALLATION ROUGH-IN SHALL BE PROTECTED WITH A TEST PLUG THAT IS SECURELY LOCKED IN PLACE UNTIL FINAL FINISHED CONNECTIONS ARE INSTALLED.

P17 ALL PIPING SHALL BE RUN PARALLEL TO BUILDING LINES AND SUPPORTED AND ANCHORED AS REQUIRED TO FACILITATE EXPANSION AND CONTRACTION.

P18 PROVIDE AN ISOLATING, DIELECTRIC UNION AT ALL CONNECTIONS BETWEEN FERROUS AND NONFERROUS PIPING.

P19 COORDINATE LOCATION OF FLOOR DRAINS WITH EQUIPMENTS PRIOR TO ROUGH-IN.

P20 COORDINATE ELECTRICAL VOLTAGES WITH ELECTRICAL DRAWINGS PRIOR TO ORDERING ANY EQUIPMENT.

PLUMBING (DEMOLITION) GENERAL NOTES

1. CONTRACTOR SHALL COORDINATE DEMOLITION ACTIVITIES WITH OWNER'S REPRESENTATIVE.
2. VERIFY ALL DIMENSIONS AND CONDITIONS AT THE PROJECT SITE PRIOR TO STARTING WORK. CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION OF ALL EXISTING FIELD CONDITIONS AND DIMENSIONS.
3. OPERATIONAL ELEMENTS : DO NOT CUT THE FOLLOWING OPERATING ELEMENTS AND RELATED COMPONENTS IN A MANNER THAT RESULTS IN REDUCING THEIR CAPACITY TO PERFORM AS INTENDED OR THAT RESULTS IN INCREASED MAINTENANCE OR DECREASED OPERATIONAL LIFE OR SAFETY: PRIMARY OPERATIONAL SYSTEMS AND EQUIPMENT, FIRE PROTECTION SYSTEMS, FIRE ALARMS, CONTROL SYSTEMS, COMMUNICATION SYSTEMS, ELECTRICAL WIRING SYSTEMS.
4. ADJOINING AREAS : AVOID INTERFERENCE WITH USE OF ADJOINING AREAS OR INTERRUPTION OF FREE PASSAGE TO ADJOINING AREAS. EMPLOYEES WILL OCCUPY PORTIONS OF BUILDING IMMEDIATELY ADJACENT TO SELECTIVE DEMOLITION AREA. CONDUCT SELECTIVE DEMOLITION SO OWNER'S OPERATIONS WILL NOT BE DISRUPTED. PROVIDE NOTICE TO OWNER OF ACTIVITIES THAT WILL AFFECT OWNER'S OPERATION. MAINTAIN ACCESS TO EXISTING HALLWAYS, CORRIDORS AND OTHER ADJACENT OCCUPIED OR USED FACILITIES. COORDINATE UTILITY SHUTDOWNS WITH THE OWNER. DO NOT ENTER PORTIONS OF THE BUILDING OTHER THAN THE CONSTRUCTION AREA WITHOUT PERMISSION FROM THE OWNER.
5. EXISTING SERVICES TO BE REMOVED : WHERE EXISTING SERVICES ARE REQUIRED TO BE REMOVED, RELOCATED, OR ABANDONED, BYPASS SUCH SERVICES BEFORE CUTTING TO MINIMIZE INTERRUPTION OF SERVICES TO OCCUPIED AREAS. MAINTAIN FIRE-PROTECTION FACILITIES IN SERVICE DURING SELECTIVE DEMOLITION OPERATIONS. WHEN ANTICIPATED MECHANICAL, ELECTRICAL, OR STRUCTURAL ELEMENTS THAT CONFLICT WITH INTENDED FUNCTION OR DESIGN ARE ENCOUNTERED, INVESTIGATE AND NOTIFY THE OWNER'S REPRESENTATIVE OF THE EXTENT OF CONFLICT.
6. EXISTING SERVICES TO REMAIN : MAINTAIN SERVICES INDICATED TO REMAIN AND PROTECT THEM AGAINST DAMAGE DURING SELECTIVE DEMOLITION OPERATIONS.
7. DEMOLITION : ITEMS OR MATERIALS INDICATED TO BE REUSED, SALVAGED, REINSTALLED, OR OTHERWISE INDICATED ARE TO REMAIN OWNER'S PROPERTY. DEMOLISH AND REMOVE EXISTING CONSTRUCTION ONLY TO THE EXTENT REQUIRED BY NEW CONSTRUCTION AND AS INDICATED. PATCH AND REPAIR SURFACES AND FINISHES AFFECTED BY DEMOLITION TO MATCH EXISTING ADJACENT AREAS.
8. REMOVE AND RELOCATE ITEMS NOT SHOWN ON DRAWINGS THAT WILL INTERFERE WITH THE INSTALLATION OF THE WORK.

FIRE PROTECTION GENERAL NOTES

FP1 THE SPACE SHALL BE PROTECTED THROUGHOUT BY A FULLY AUTOMATIC WET PIPE SPRINKLER IN ACCORDANCE WITH NFPA 13.

FP2 THIS SPACE IS CONSIDERED AS LIGHT HAZARD AND ORDINARY HAZARD 2 OCCUPANCY. REFER TO LOCAL STANDARDS, FM STANDARDS AND NFPA 13 TO DETERMINE THE DENSITY AND HYDRAULICALLY MOST REMOTE AREA FOR THIS ORDINARY HAZARD OCCUPANCY.

FP3 AREAS EXPOSED TO STRUCTURE ABOVE (NO CEILING) SHALL HAVE UPRIGHT SPRINKLER HEADS, AREAS WITH LAY-IN TILES AND OR GYP. BOARD CEILING SHALL HAVE RECESSED PENDENT OR CONCEALED PENDENT SPRINKLER HEADS. PROVIDE APPROPRIATE SPRINKLER HEAD TYPE BASED ON THE NEW ARCHITECTURAL REFLECTED CEILING PLANS.

FP4 COORDINATE SPRINKLER HEAD LOCATIONS LAYOUT BASED ON NEW REFLECTED CEILING PLAN.

FP5 PRIOR TO TAKING A SPRINKLER SYSTEM OUT OF SERVICE, CONTRACTOR SHALL OBTAIN PERMISSION FROM THE AUTHORITY HAVING JURISDICTION AND SUBSEQUENTLY ADOPT A FIRE WATCH FOR THE AREA WITH NO COVERAGE DURING CONSTRUCTION AS RECOMMENDED PER NFPA 13.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK		DATE	DESCRIPTION
		2017-11-22	PRELIMINARY DESIGN
		2018-02-02	90% CONSTRUCTION DOCUMENTS
		2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
		2018-03-28	CONSTRUCTION DOCUMENTS
	1	2018-04-12	ADDENDUM #2

Project Number	10062179
Original Issue	05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM ZACHARY SLOGALE
3-28-18

Sheet Name
PLUMBING GENERAL NOTES, SYMBOLS AND ABBREVIATIONS

Scale
3/8" = 1'-0"

Sheet Number
P-001

Project Status
CONSTRUCTION DOCUMENTS

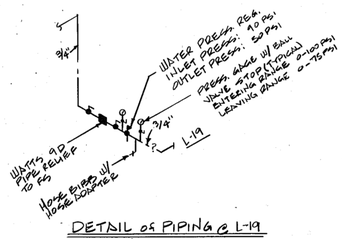
4/12/2018 11:12:43 AM
C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

LABORATORY EQUIPMENT CONNECTION SCHEDULE

MARK	EQUIPMENT	WASTE	CW	HW	DW	REMARKS
L-1	CUP SINK	1-1/2"	1/2"	---	---	DECK MOUNTED.
L-2	CUP DRAIN	1-1/2"	---	---	---	WALL MOUNTED
L-3	FUME HOOD	1-1/2"	1/2"	---	---	1/2" AIR, GAS, VACUUM
L-4	LAMINAR FLOW HOOD	1-1/2"	1/2"	---	---	1/2" AIR, GAS, VACUUM CAP WASTE, WATER, AIR, GAS & VACUUM AT WALL.
L-5	CUP SINK	1-1/2"	1/2"	---	1/2"	
L-6	STERILIZER	2"	1/2"	---	---	PIPE WASTE TO FS #2.
L-7	DRYER	3/4"	---	---	---	PIPE WASTE TO FS #2.
L-8	WASHER	2"	---	3/4"	2-3/4"	1/4" & 1/2" AIR, PIPE WASTE TO FS #2.
L-9	WASHER	2"	---	3/4"	3/4"	1/4" & 1/2" AIR CONNECTION, PIPE WASTE TO FS #2.
L-10	STERILIZER	1-1/2"	1/2"	---	---	PIPE WASTE TO FS #2.
L-11	SAFETY SHOWER	---	1"	---	---	
L-12	EYE WASH	---	1/2"	---	---	ROUGH & CONNECT
L-13	LAB SINK	1-1/2"	1/2"	1/2"	---	ROUGH & CONNECT
L-14	LAB SINK	1-1/2"	1/2"	1/2"	---	ROUGH & CONNECT WITH FOOT CONTROLS
L-15	LAB SINK	1-1/2"	1/2"	1/2"	1/2"	ROUGH & CONNECT WITH DECK MOUNTED EYE WASH
L-16	LAB SINK	1-1/2"	1/2"	1/2"	1/2"	ROUGH & CONNECT
L-17	CUP DRAIN	1-1/2"	---	---	---	COUNTERTOP
L-18	LAB SINK	1-1/2"	1/2"	1/2"	---	ROUGH & CONNECT WITH HOSE SPRAY
L-19	FILM PROCESSOR	1"	1/2"	---	---	PIPE WASTE TO FS
L-20	EYE WASH	----	1/2"	---	---	SWIVEL TYPE

GENERAL NOTES

1. CONTRACTOR SHALL VERIFY EXACT LOCATION, SIZE AND ELEVATION OF ALL EXISTING SERVICES PRIOR TO INSTALLING ANY NEW PIPE.
2. WHEREVER DISSIMILAR METALS ARE CONNECTED ON WATER LINES, A DIELECTRIC UNION SHALL BE USED.
3. ALL HORIZONTAL WATER, GAS, VACUUM, FIRE, COMPRESSED AIR, AND VENT PIPING IS RUN ABOVE CEILING ON PLAN WHICH SHOWN UNLESS OTHERWISE NOTED.
4. COORDINATE ALL PIPE ROUTING TO AVOID CONFLICTS WITH STRUCTURAL, MECHANICAL, AND ELECTRICAL FEATURES OF BUILDING.
5. ALL NON-POTABLE COLD WATER PIPING AND INSULATION SHALL BE PAINTED WITH TWO COATS OF BRIGHT YELLOW BY THIS SECTION.
6. REFER TO ARCHITECT ELEVATIONS, DETAILS AND SECTIONS THROUGH LAB CASEWORK FOR EXACT LOCATION OF ALL LAB AIR, GAS AND VACUUM OUTLETS, SERVICE FIXTURES AND CUP SINKS.
7. THERE IS A CEILING GRID TEE ON THE CENTERLINE OF ALL PARTITIONS. OFFSET ACID VENT PIPING TO CLEAR TEE. DO NOT CUT TEE.
8. WHERE PIPING PENETRATES A COLD ROOM OR WARM ROOM WALL, SEAL AROUND HOLE WITH MINERAL WOOL AND CLOSE EACH END WITH SILICONE SEALANT MINIMUM 1/4" DEEP.
9. CONTRACTOR TO TEST EXISTING ACID WASTE PIPING SYSTEMS IN PRESENCE OF ARCHITECT PRIOR TO START OF NEW CONSTRUCTION.



DETAIL OF PIPING @ L-19

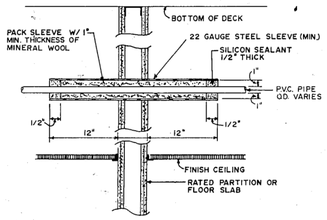
NO SCALE

PLUMBING FIXTURE CONNECTION SCHEDULE

MARK	FIXTURE	WASTE	C.W.	H.W.	REMARKS
P-1	WATER CLOSET	4"	1"	----	CONNECT TO EXIST. ROUGH.
P-2	URINAL	2"	3/4"	----	CONNECT TO EXIST. ROUGH.
P-3	LAVATORY	1-1/4"	1/2"	1/2"	RIM 34" ABOVE FINISH FLOOR.
P-4	JANITORS RECEPTOR	3"	1/2"	1/2"	CONNECT TO EXIST. ROUGH.
P-5	ELECTRIC WATER COOLER	1-1/4"	1/2"	----	CONNECT TO EXIST. ROUGH.
P-6	SINK	1-1/2"	1/2"	1/2"	COUNTERTOP - SEE ARCH. DWGS. FOR MOUNTING HEIGHT.
P-7	PIPETTE SINK	3"	(2) 1/2"	(2) 1/2"	
P-8	ICE MACHINE	1/2" 3/4"	1/2"	----	PIPE WASTE TO FS.
P-9	DARKROOM SINK	1-1/2"	1/2"	1/2"	WITH 1/2" DEIONIZED WATER. PIPE WASTE TO FS.

PLAN NOTES

- (A) INSTALL NEW 3" ACID CLEANOUT ON EXISTING 3" ACID RISER. ADJUST RISER SUCH THAT NEW CLEANOUT IS FLUSH WITH NEW FINISH FLOOR.
- (B) CONNECT TO EXISTING 3" ACID RISER CAPPED 3" ABOVE FLOOR.
- (C) CAP 1-1/2" WASTE ABOVE FINISH FLOOR FLUSH WITH FINISH WALL FOR HOOD FURNISHED AND INSTALLED BY OWNER.
- (D) CAP 1/2" CW, AIR, GAS AND VACUUM 18" ABOVE FINISH FLOOR FLUSH WITH FINISH WALL FOR HOOD FURNISHED AND INSTALLED BY OWNER.
- (E) 1/2" AIR, GAS AND VACUUM ABOVE COUNTERTOP IN SERVICE PANEL.
- (F) 1/2" CW BELOW COUNTERTOP IN UTILITY CHASE.
- (G) CAP 3/4" CW, HW, AIR, GAS AND VACUUM FOR FUTURE.
- (H) CAP 3/4" H & CW.
- (I) CAP 1" VACUUM, 3/4" AIR AND GAS.
- (J) CAP 1" HW, CW AND VACUUM, 3/4" AIR, GAS AND VACUUM.
- (K) CAP 1" HW.
- (L) 3/4" CW BELOW COUNTER IN UTILITY CHASE.
- (M) CAP MAINS FULL SIZE.
- (N) 1/2" AIR, GAS, VACUUM AND WATER IN WALL.
- (O) 1/2" HW, CW & 2 - 1" DIONIZED WATER RACKED ON WALL BELOW COUNTERTOP.
- (P) CAP 3/4" AIR, GAS AND VACUUM.
- (Q) 1-1/4" GAS, 1" AIR, 1-1/2" VACUUM, 2" HW, 3/4" HOT WATER RETURN AND 2" COLD WATER.
- (R) 1/2" HOT AND COLD WATER IN WALL.
- (S) 1/2" AIR, GAS AND VACUUM IN WALL.
- (T) CAP 3/4" HW.
- (U) CAP 3/4" CW, AIR, GAS AND VACUUM.
- (V) 1/2" AIR, GAS, VACUUM AND 3/4" CW IN WALL.
- (W) 1/2" AIR, GAS, VACUUM AND CW DOWN IN WALL.

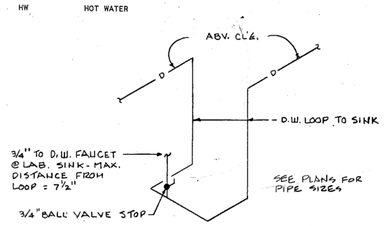


DEIONIZED WATER PIPE SLEEVE DETAIL

NO SCALE

PLUMBING LEGEND

ACID	ACID WASTE LINE	HWR	HOT WATER RETURN
ACID	ACID VENT LINE		NEW CONNECTION TO EXISTING PIPING
G	GAS LINE		PLAN NOTE
C	COLD WATER LINE		ALTERNATE NOTE
H	HOT WATER LINE		SPRINKLER NOTE
HC	HOT WATER CIRCULATOR LINE	VAC.	VACUUM
??	NON-POTABLE COLD WATER LINE	HVAC	HEATING, VENTILATION AND AIR CONDITIONING
?H	NON-POTABLE HOT WATER LINE	ALT.	ALTERNATE
F	FIRE PROTECTION LINE	APPROX.	APPROXIMATELY
V	VACUUM LINE	ARCH.	ARCHITECTURAL
A	COMPRESSED AIR LINE (20 PSI)	CFH	CUBIC FEET/HOUR
HA	HIGH PRESSURE COMPRESSED AIR (40 PSI)	AB.CL'G	ABOVE CEILING
D	DEIONIZED WATER	CONC.	CONCRETE
DR	DEIONIZED WATER RETURN	CONN.	CONNECTION
	GATE VALVE	DET.	DETAIL
	OS&Y GATE VALVE	DN.	DOWN
	BALL VALVE	DIA.	DIAMETER
	GAS COCK	EA.	EACH
	SWING CHECK VALVE	ELEV.	ELEVATION
	PIPE TURNING UP	EQUIP.	EQUIPMENT
	PIPE TURNING DOWN	EX.	EXISTING
	P-TRAP	EXIST.	EXISTING
HB	HOSE BIBB	FT.	FEET
FD	FLOOR DRAIN	FIN.	FINISH
FS	FLOOR SINK	LAB.	LABORATORY
		MECH.	MECHANICAL
P-#	PLUMBING FIXTURE NO.	MIN.	MINIMUM
L-#	LABORATORY EQUIP. NO.	MISC.	MISCELLANEOUS
	RISER DIAGRAM NO.	±	PLUS OR MINUS- VERIFY
A G V	SINGLE LABORATORY AIR, GAS OR VACUUM OUTLET	NIC	NOT IN CONTRACT
AFF	ABOVE FINISH FLOOR	PSI	POUNDS PER SQUARE INCH
A G V	DOUBLE LABORATORY AIR, GAS OR VACUUM OUTLET	SPECS.	SPECIFICATIONS
CO	CLEANOUT	UL	UNDERWRITERS LABORATORIES
S.P.	STANDPIPE	ASME	AMERICAN SOCIETY OF MECHANICAL ENGINEERS
CW	COLD WATER	W/	WITH
HW	HOT WATER	RPZBP	REDUCED PRESSURE ZONE BACKFLOW PREVENTER



TYPICAL DEIONIZED WATER CONNECTION @ LAB. SINKS

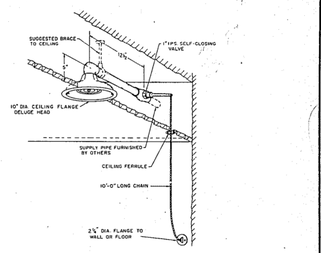
NO SCALE

ALTERNATE NOTES

- (A) CAP 1/2" AIR, GAS, VACUUM AND COLD WATER UNDER BASE BID. INSTALL PIPING AS SHOWN TO COLD ROOM UNDR ALTERNATE TO ADD ENVIRONMENTAL 998/998A.
- (B) CAP 1/2" HOT AND COLD WATER AND DELETE DEIONIZED WATER DROP UNDER BASE BID. INSTALL PIPING AS SHOWN TO COLD ROOM UNDER ALTERNATE TO ADD ENVIRONMENTAL ROOM 951/951A.
- (C) CAP 1/2" HW, CW, AIR, GAS, VACUUM AND DELETE DEIONIZED DROP UNDER BASE BID. INSTALL PIPING AS SHOWN UNDER ALTERNATE TO ADD ENVIRONMENTAL ROOM 931.
- (D) CAP 1/2" AIR, GAS AND VACUUM UNDER BASE BID. INSTALL PIPING AS SHOWN UNDER ALTERNATE TO ADD ENVIRONMENTAL ROOM 937.
- (E) NOT USED.
- (F) UNDER BASE BID CAP 1-1/4" HW, 1" CW, 3/4" CW, 3/4" HW, 1/2" AIR, GAS, VACUUM AND 1/2" HIGH PRESSURE AIR. DELETE DEIONIZED WATER DROPS L-16, L-8, L-9. REDUCE LINE SIZE OF DEIONIZED WATER MAIN FROM 1-1/4" TO 1" BEYOND BRANCH TO L-8. INSTALL COMPLETE AS SHOWN UNDER ALTERNATE TO ADD EQUIPMENT ROOM 919 AND KITCHEN 925.
- (G) CAP 1/2" HOT AND COLD WATER UNDER BASE BID. INSTALL PIPING AS SHOWN UNDER ALTERNATE TO ADD CONFERENCE 901 AND KITCHEN/STORAGE 901B.
- (H) CAP HW, CW, AIR, GAS, VACUUM AND DELETE DEIONIZED WATER DROPS AT POINTS INDICATED UNDER BASE BID. INSTALL PIPING AS SHOWN UNDER ALTERNATE TO ADD LABORATORY 957.
- (I) CAP 1/2" HW, CW AND DELETE DEIONIZED DROP UNDER BASE BID. INSTALL PIPING AS SHOWN UNDER ALTERNATE TO ADD DARK ROOM 915.
- (J) CAP 1/2" HW, CW, AND DELETE DEIONIZED WATER DROPS TO L-16 SINK AND L-1 CUP SINK UNDER BASE BID. INSTALL PIPING AS SHOWN UNDER ALTERNATE TO ADD MEDIA PREP 939.
- (K) CAP 3/4" HW, CW AND DELETE DEIONIZED WATER DROP TO P-9 SINK UNDER BASE BID. INSTALL PIPING AS SHOWN UNDER ALTERNATE TO ADD FILM PROCESS 977.
- (L) ROUGH IN ONLY L-1 AND L-2, LEAVE OUT 1'-0" SECTION OF PIPE AS INDICATED UNDER BASE BID. INSTALL PIPING COMPLETE AS SHOWN UNDER ALTERNATE TO ADD ENVIRONMENTAL ROOM 998/998A.
- (M) LEAVE OUT 1'-0" LENGTH OF PIPE UNDER BASE BID. INSTALL COMPLETE IF ANY OF THE ALTERNATES TO ADD ENVIRONMENTAL ROOM 918, DARK ROOM 915 OR EQUIPMENT ROOM 919 ARE TAKEN.
- (N) CORE DRILL FLOOR, INSTALL CLEANOUT FLUSH WITH FINISH FLOOR AND CAP 2" VENT LINE ABOVE CEILING WHERE INDICATED UNDER BASE BID. INSTALL COMPLETE UNDER ALTERNATE TO ADD WARM ROOM 918.
- (O) ROUGH IN ONLY L-16 AND L-2 UNDER BASE BID. LEAVE OUT 1'-0" SECTION OF PIPE. INSTALL COMPLETE UNDER ALTERNATE TO ADD ENVIRONMENTAL ROOM 951/951A.
- (P) ROUGH IN ONLY L-16, L-2 AND LEAVE OUT 1'-0" SECTION OF PIPE WHERE INDICATED UNDER BASE BID. INSTALL COMPLETE AS SHOWN UNDER ALTERNATE TO ADD ENVIRONMENTAL ROOM 931.
- (Q) CAP 2" WASTE ARM AND LEAVE OUT 1'-0" SECTOIN OF PIPE WHERE INDICATED UNDER BASE BID. INSTALL COMPLETE UNDER ALTERNATE TO ADD ENVIRONMENTAL ROOM 937.
- (R) UNDER BASE BID ROUGH IN ONLY L-13, L-16, L-18, INSTALL FS #2'S AND FD. CORE DRILL FLOOR, INSTALL P-TRAP WITH CAP 1'-0" ABOVE FINISH FLOOR AND SEAL AROUND TRAP EXTENSION WATER TIGHT FOR P-7. LEAVE OUT 1'-0" SECTION OF PIPE WHERE INDICATED. INSTALL COMPLETE UNDER ALTERNATE TO ADD EQUIPMENT ROOM 919 AND KITCHEN 925.
- (S) CORE DRILL FLOOR, SET 2" CLEANOUT FLUSH WITH FINISH FLOOR, LEAVE OUT 1'-0" SECTION OF PIPE AND CAP 2" ACID VENT ABOVE CEILING UNDER BASE BID. INSTALL COMPLETE UNDER ALTERNATE TO ADD CONFERENCE ROOM 901 AND KITCHEN/STORAGE 901B.
- (T) UNDER BASE BID, ROUGH IN ONLY L-13, L-4 AND L-1 ALONG WALLS. AT ISLAND SINKS WITH L-15 AND L-1, CORE DRILL FLOOR AND INSTALL CLEANOUT FLUSH WITH FINISH FLOOR. CAP ACID VENT LINES WHERE SHOWN AND LEAVE OUT 1'-0" SECTION OF PIPE. INSTALL COMPLETE UNDER ALTERNATE TO ADD LAB 957.
- (U) ROUGH IN ONLY L-16 AND LEAVE OUT 1'-0" SECTION OF PIPE. INSTALL COMPLETE UNDER ALTERNATE TO ADD DARK ROOM 915.
- (V) ROUGH IN ONLY L-17 AND L-16 UNDER BASE BID. INSTALL COMPLETE UNDER ALTERNATE TO ADD MEDIA PREP 939.

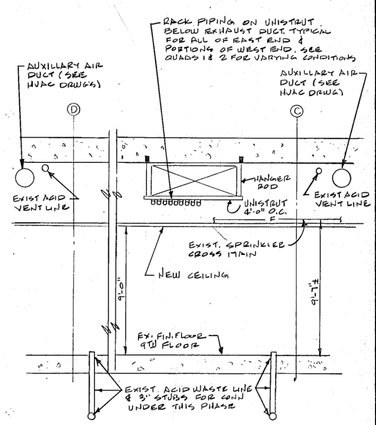
NOTES:

1. THE DRAWINGS ARE PREPARED SHOWING PIPING INSTALLED AS IF ALL ALTERNATES ARE TAKEN.
2. ALL ALTERNATES ARE ADDITIVE; REFER TO NOTES FOR CONDITIONS UNDER BASE BID.
3. WHERE DEIONIZED WATER DROPS ARE DELETED ROUTE PIPING ABOVE CEILINGS AS SHOWN WITH ONLY THE DROP AND RETURN IN WALL DELETED.
4. WHERE NOTE INDICATES TO LEAVE OUT 1'-0" SECTION OF PIPE, LEAVE OUT PIPE AND CAP BOTH ENDS.



DETAIL OF L-20 EYE WASH

NO SCALE



DETAIL OF PIPING @ PIPING MAINS AND EXHAUST DUCT

NO SCALE

EXISTING LEGENDS, GENERAL NOTES, ABBREVIATIONS AND DETAILS (FOR REFERENCE ONLY)

3/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	02/19/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name

EXISTING LEGENDS, GENERAL NOTES, ABBREVIATIONS & DETAILS

Scale

Sheet Number

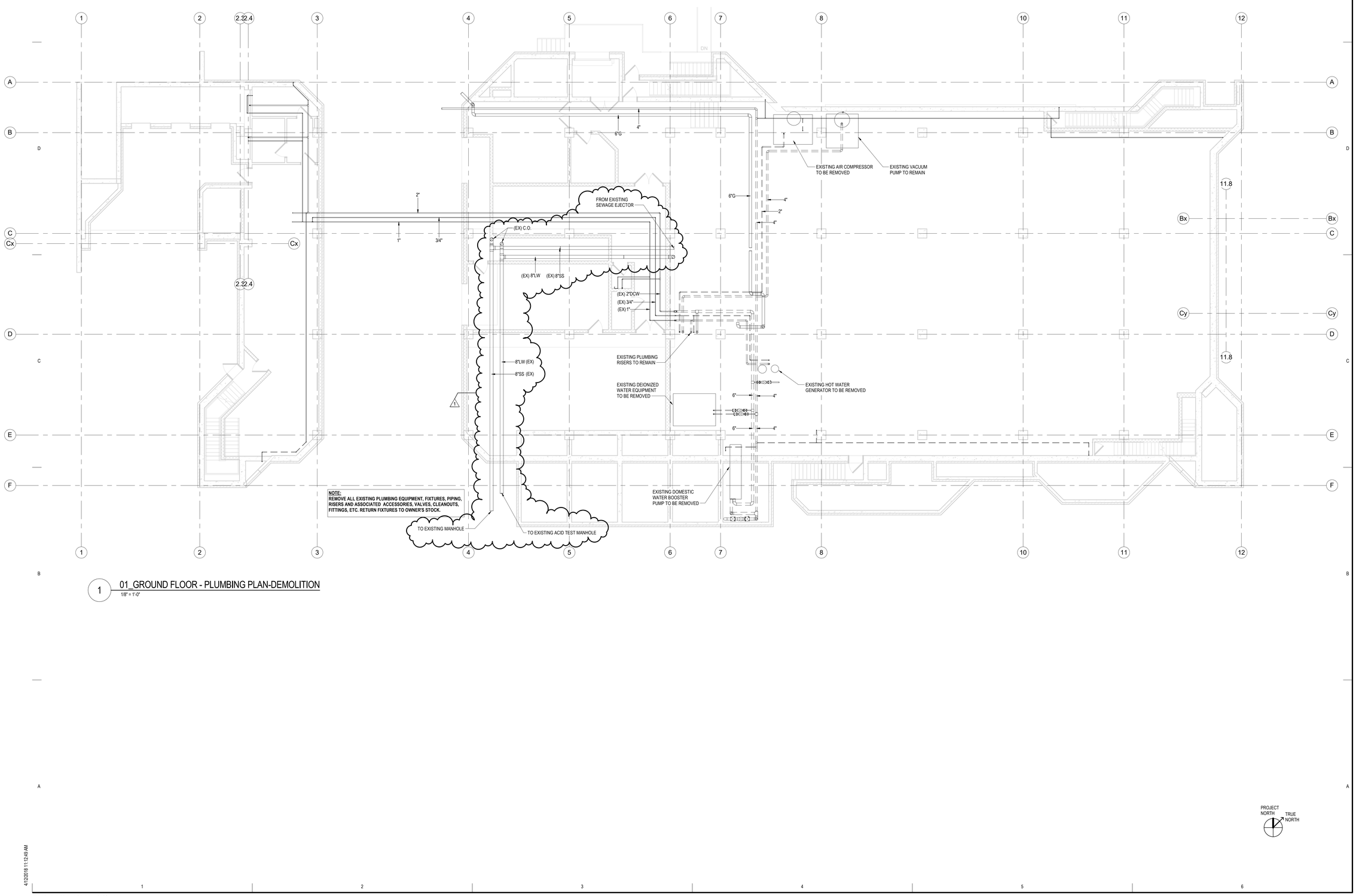
PPD-001

Project Status

CONSTRUCTION DOCUMENTS

3/28/2018 1:54:06 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt



1 01_GROUND FLOOR - PLUMBING PLAN-DEMOLITION
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	ADDENDUM #2

Project Number	10062179
Original Issue	05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM CLARK ZWATER JR.
3-28-18

Sheet Name

GROUND FLOOR DEMOLITION PLUMBING PLAN

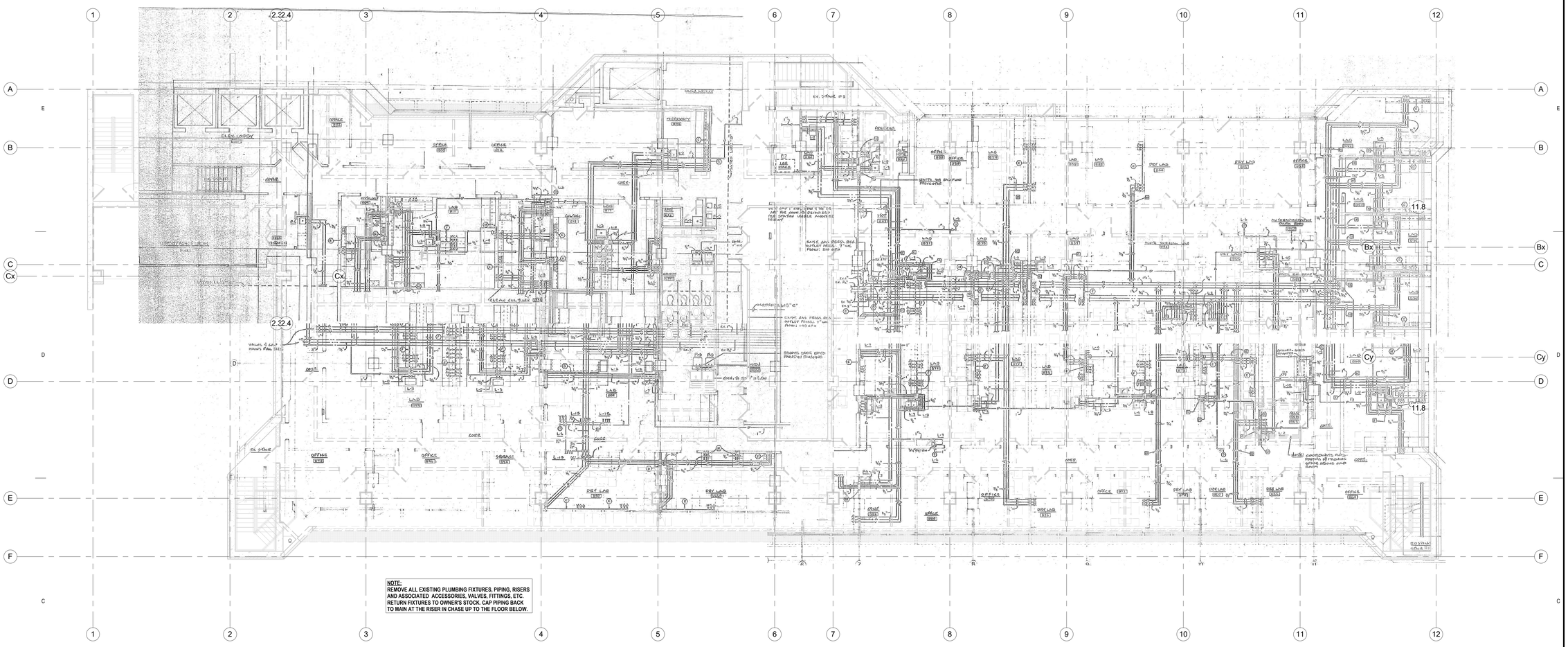
Scale
1/8" = 1'-0"

Sheet Number

PPD-101

Project Status
CONSTRUCTION DOCUMENTS

4/12/2018 11:12:49 AM
C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt



1 08_8TH FLOOR - PLUMBING PLAN-DEMOLITION
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	11/10/17 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM CHARLES ZAVATKAY JR.
3-28-18

Sheet Name

8TH FLOOR PLUMBING DEMOLITION PLAN

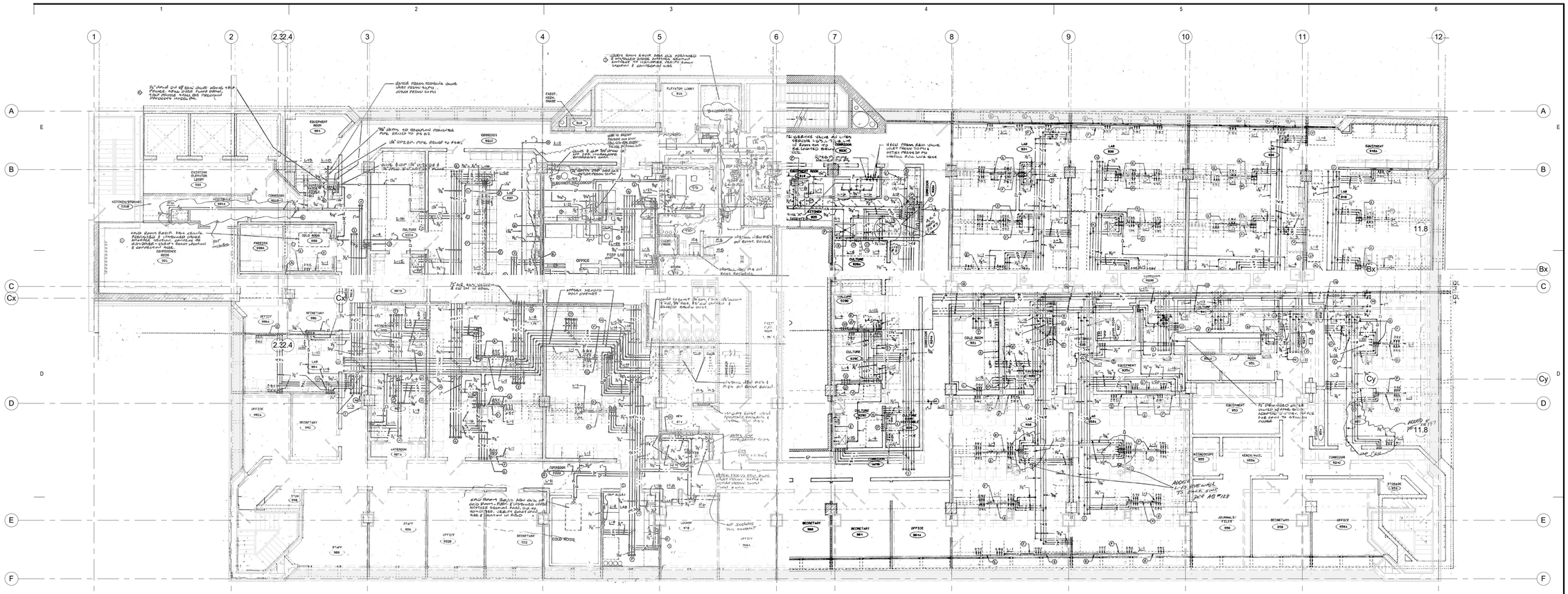
Scale
1/8" = 1'-0"

Sheet Number

PPD-108

Project Status
CONSTRUCTION DOCUMENTS

3/28/2018 1:54:14 PM
C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt



NOTE:
REMOVE ALL EXISTING PLUMBING FIXTURES, PIPING, RISERS AND ASSOCIATED ACCESSORIES. VALVES. FITTINGS. ETC. RETURN FIXTURES TO OWNER'S STOCK. CAP PIPING BACK TO MAIN AT THE RISER IN CHASE UP TO THE FLOOR BELOW.

1 09_9TH FLOOR - PLUMBING PLAN-DEMOLITION
1/8" = 1'-0"

3/28/2018 1:54:21 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	11/10/17 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM C. WATKINS JR.
3-28-18

Sheet Name

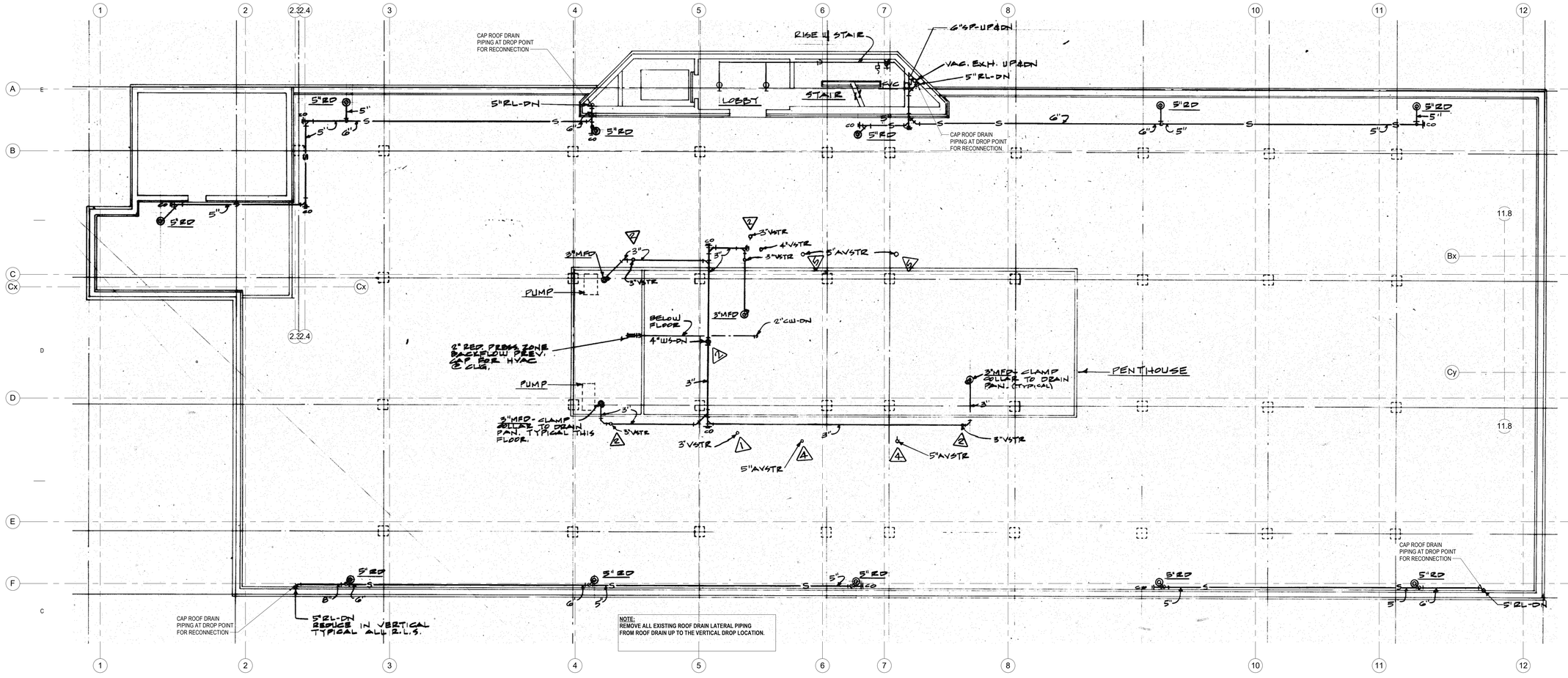
9TH FLOOR PLUMBING DEMOLITION PLAN

Scale
1/8" = 1'-0"

Sheet Number

PPD-109

Project Status
CONSTRUCTION DOCUMENTS



1 09_9TH FLOOR - PLUMBING ROOF DRAIN PIPING PLAN-DEMOLITION

1/8" = 1'-0"

4/3/2018 2:38:46 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
1	2018-04-05	ADDENDUM #1

Project Number	10062179
Original Issue	04/03/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name

PLUMBING ROOF DRAIN PIPING DEMOLITION PLAN

Scale

1/8" = 1'-0"

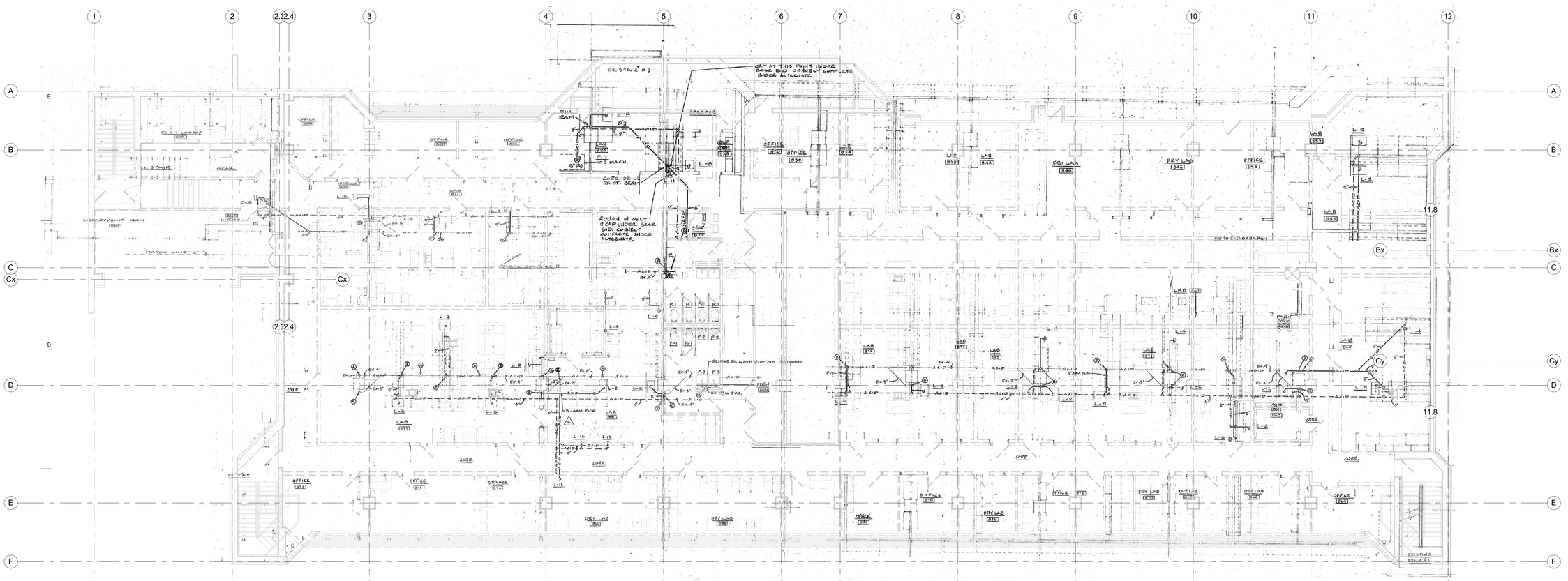
Sheet Number

PPD-110

1

Project Status

CONSTRUCTION DOCUMENTS



1 08_8TH FLOOR - PLUMBING ACID WASTE PLAN-DEMOLITION
1/8" = 1'-0"

3/29/2018 1:53:27 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	02/22/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM CLARK ZWATER JR.
3-28-18

Sheet Name

8TH FLOOR PLUMBING ACID WASTE DEMOLITION PLAN

Scale

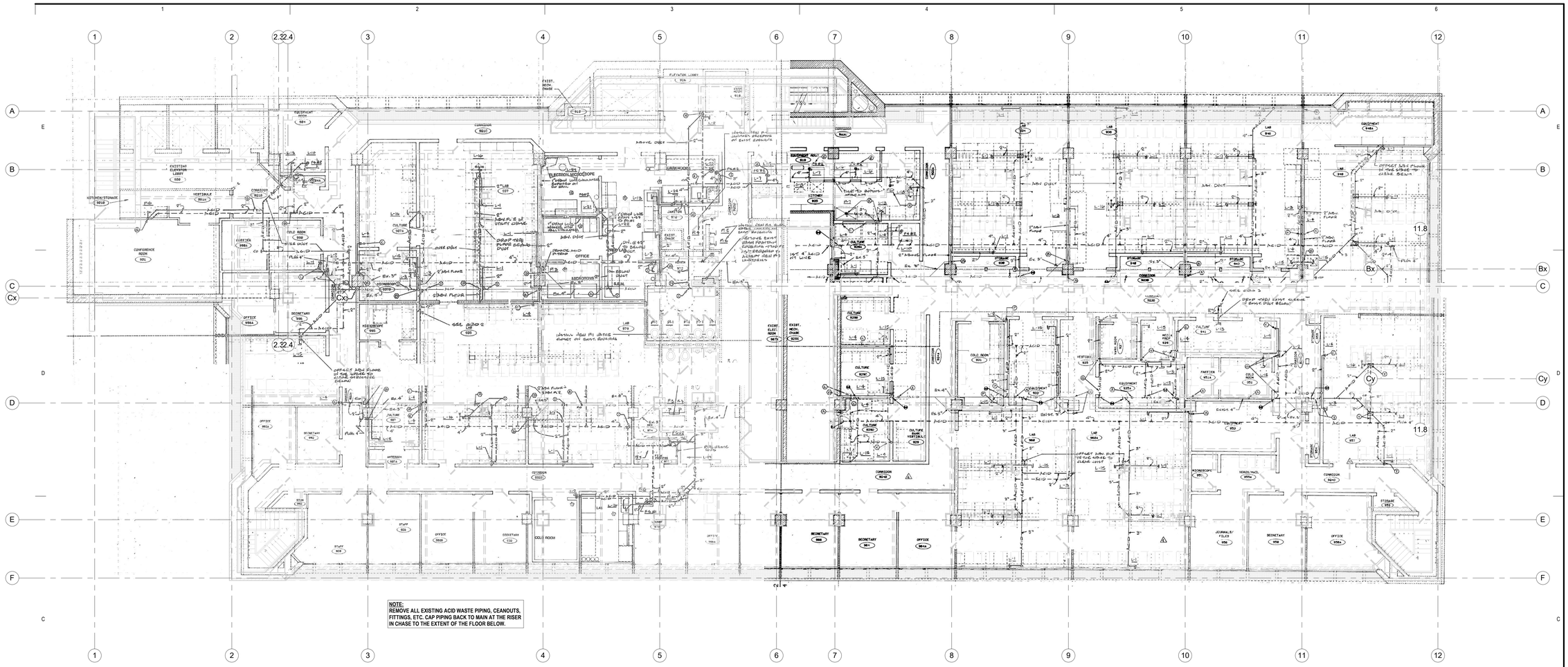
1/8" = 1'-0"

Sheet Number

PPAWD-108

Project Status

CONSTRUCTION DOCUMENTS



NOTE:
REMOVE ALL EXISTING ACID WASTE PIPING, CEANOUTS, FITTINGS, ETC. CAP PIPING BACK TO MAIN AT THE RISER IN CHASE TO THE EXTENT OF THE FLOOR BELOW.

1 09_9TH FLOOR - PLUMBING ACID WASTE PLAN-DEMOLITION
1/8" = 1'-0"

3/29/2018 1:54:04 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	02/22/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name

9TH FLOOR PLUMBING ACID WASTE DEMOLITION PLAN

Scale

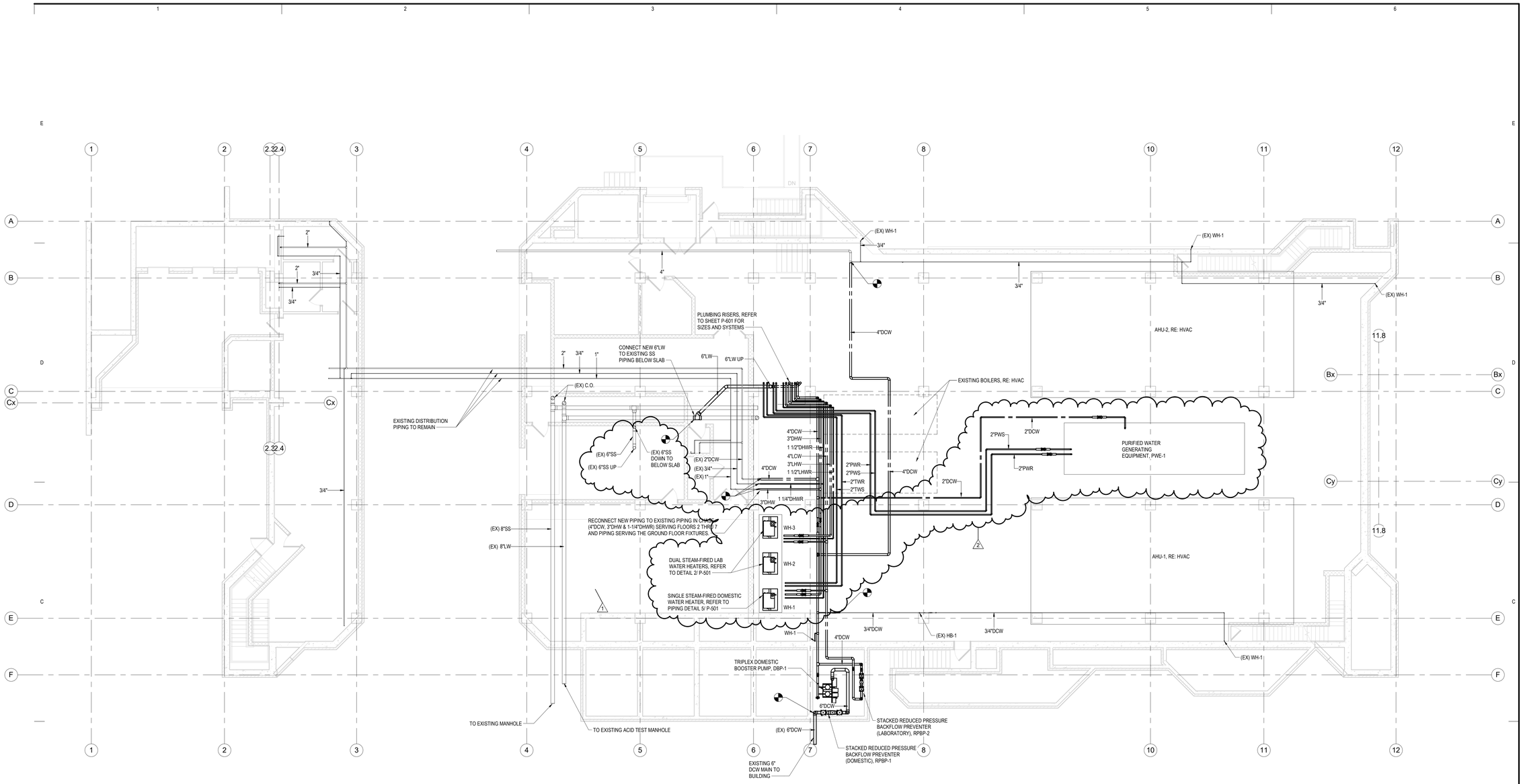
1/8" = 1'-0"

Sheet Number

PPAWD-109

Project Status

CONSTRUCTION DOCUMENTS



1 01_GROUND FLOOR - PLUMBING PLAN
1/8" = 1'-0"

PROJECT NORTH / TRUE NORTH

4/26/2018 1:37:26 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	ADDENDUM #2
2	2018-04-26	ADDENDUM #4

Project Number	10062179
Original Issue	05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM CLARK ZWATER JR.
3-28-18

Sheet Name

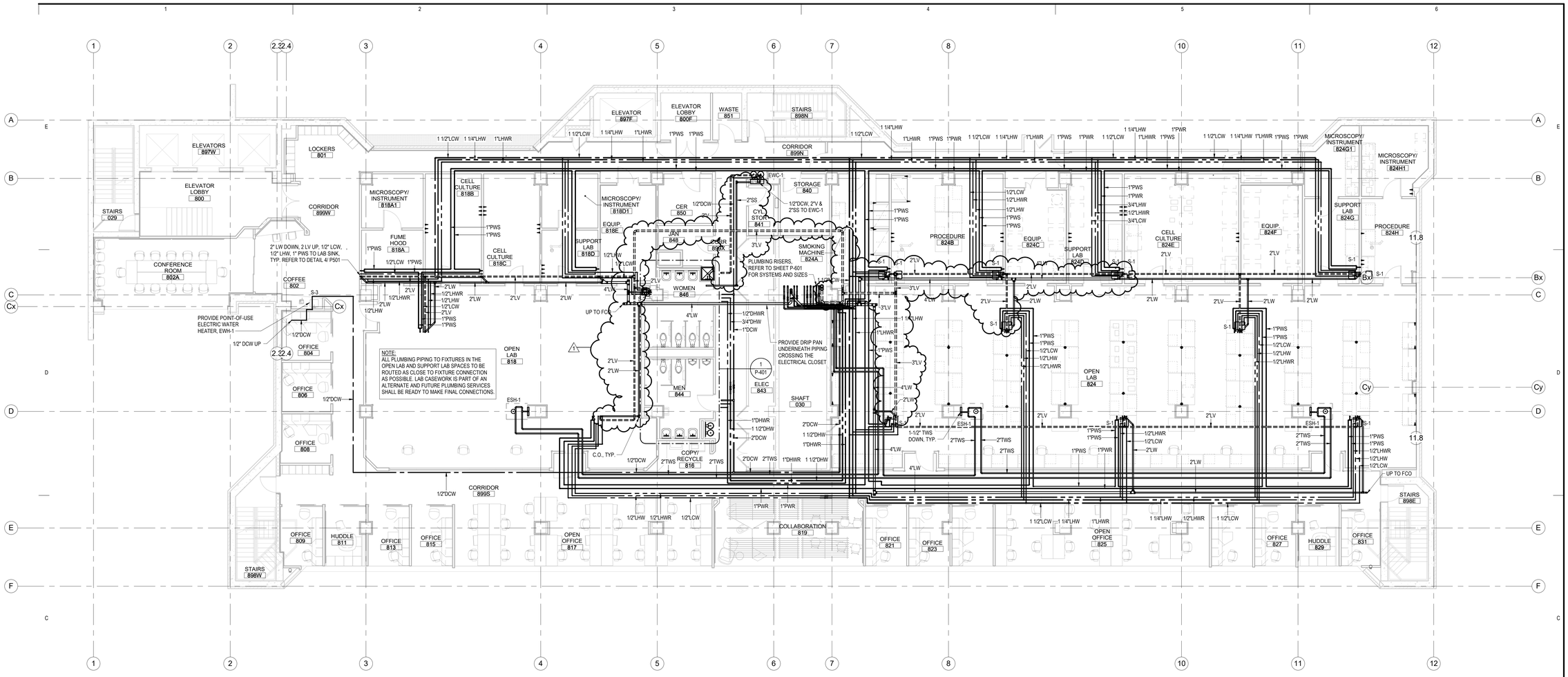
GROUND FLOOR PLUMBING PLAN

Scale
1/8" = 1'-0"

Sheet Number

PP-101

Project Status
CONSTRUCTION DOCUMENTS



1 08_8TH FLOOR - PLUMBING PLAN

1/8" = 1'-0"

PROJECT NORTH

TRUE NORTH

4/26/2018 1:58:33 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-26	ADDENDUM #4

Project Number	10062179
Original Issue	11/10/17 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM ZACHARY KNIGHT
3-28-18

Sheet Name

8TH FLOOR PLUMBING PLAN

Scale

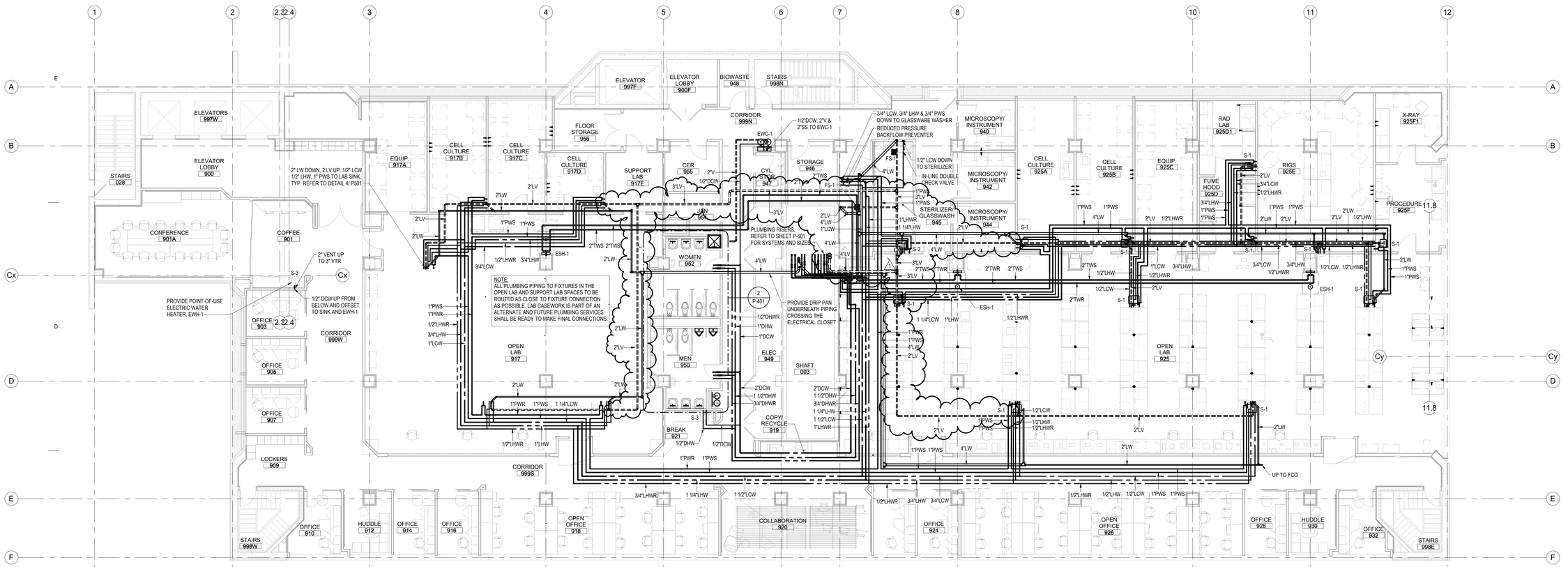
1/8" = 1'-0"

Sheet Number

PP-108

Project Status

CONSTRUCTION DOCUMENTS



1 09_9TH FLOOR - PLUMBING PLAN
1/8" = 1'-0"

PROJECT NORTH / TRUE NORTH

4/26/2018 2:57:18 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-26	ADDENDUM #4

Project Number	10062179
Original Issue	11/10/17 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name

9TH FLOOR PLUMBING PLAN

Scale

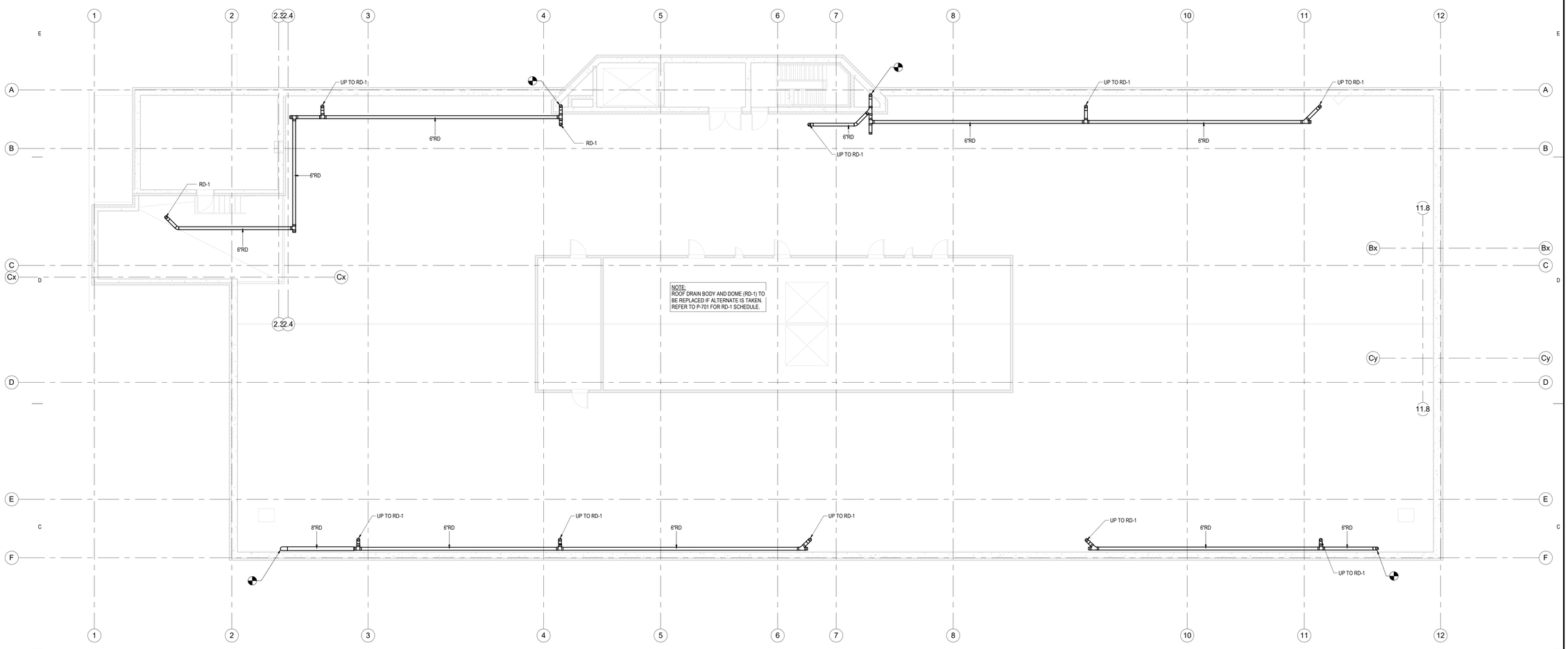
1/8" = 1'-0"

Sheet Number

PP-109

Project Status

CONSTRUCTION DOCUMENTS



1 ROOF - PLUMBING PLAN
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1

Project Number	10062179
Original Issue	11/10/17 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM ZAVATKAY JR.
3-28-18

Sheet Name

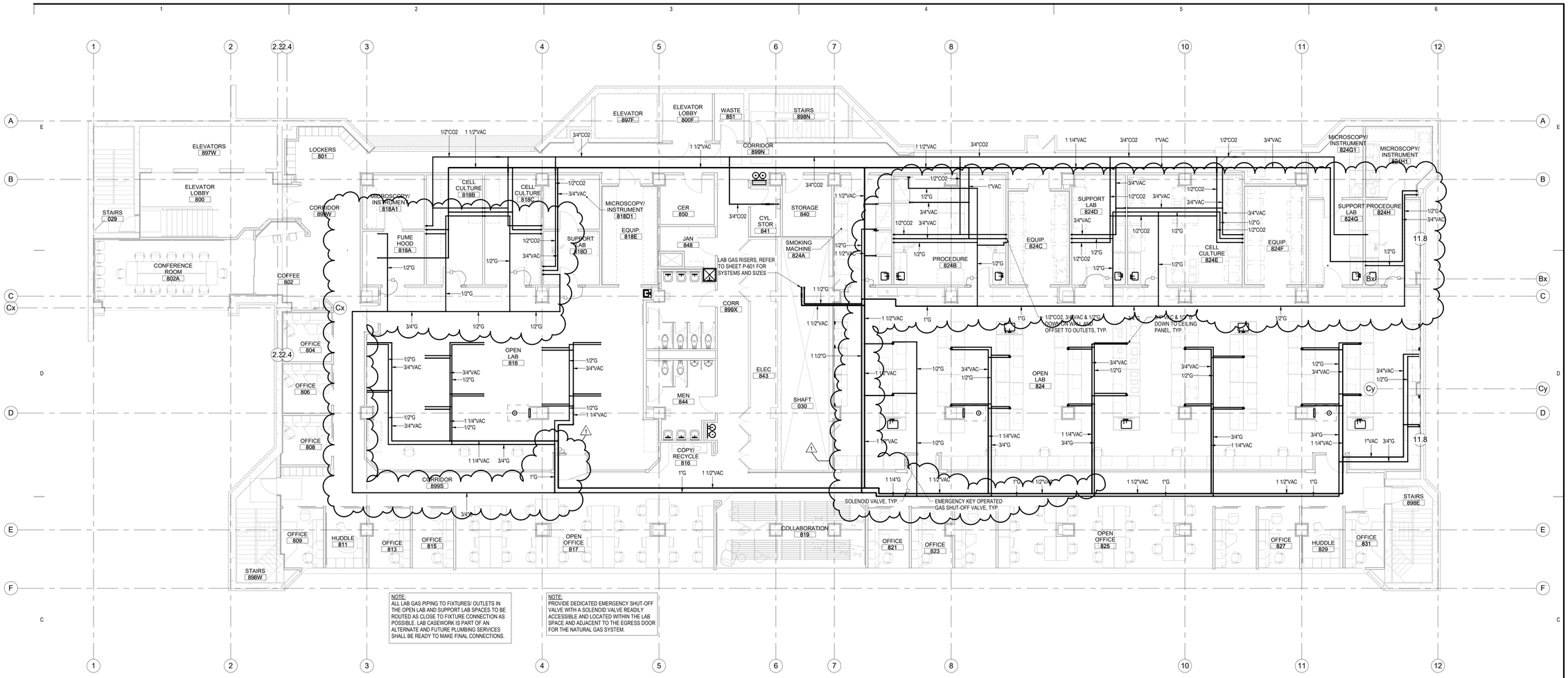
ROOF PLUMBING PLAN

Scale
1/8" = 1'-0"

Sheet Number
PP-111

Project Status
CONSTRUCTION DOCUMENTS

4/3/2018 2:38:42 PM
C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt



NOTE:
ALL LAB GAS PIPING TO FIXTURES/ OUTLETS IN THE OPEN LAB AND SUPPORT LAB SPACES TO BE ROUTED AS CLOSE TO FIXTURE CONNECTION AS POSSIBLE. LAB CASEWORK IS PART OF AN ALTERNATE AND FUTURE PLUMBING SERVICES SHALL BE READY TO MAKE FINAL CONNECTIONS.

NOTE:
PROVIDE DEDICATED EMERGENCY SHUT-OFF VALVE WITH A SOLENOID VALVE READILY ACCESSIBLE AND LOCATED WITHIN THE LAB SPACE AND ADJACENT TO THE EGRESS DOOR FOR THE NATURAL GAS SYSTEM.

1 08_8TH FLOOR - LAB GAS PLAN
1/8" = 1'-0"

PROJECT NORTH / TRUE NORTH

4/12/2018 11:12:54 AM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	ADDENDUM #2

Project Number	10062179
Original Issue	02/01/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL WILLIAM CONNER ZNAYKIN JR. 3-28-18

Sheet Name

8TH FLOOR LAB GAS PLAN

Scale

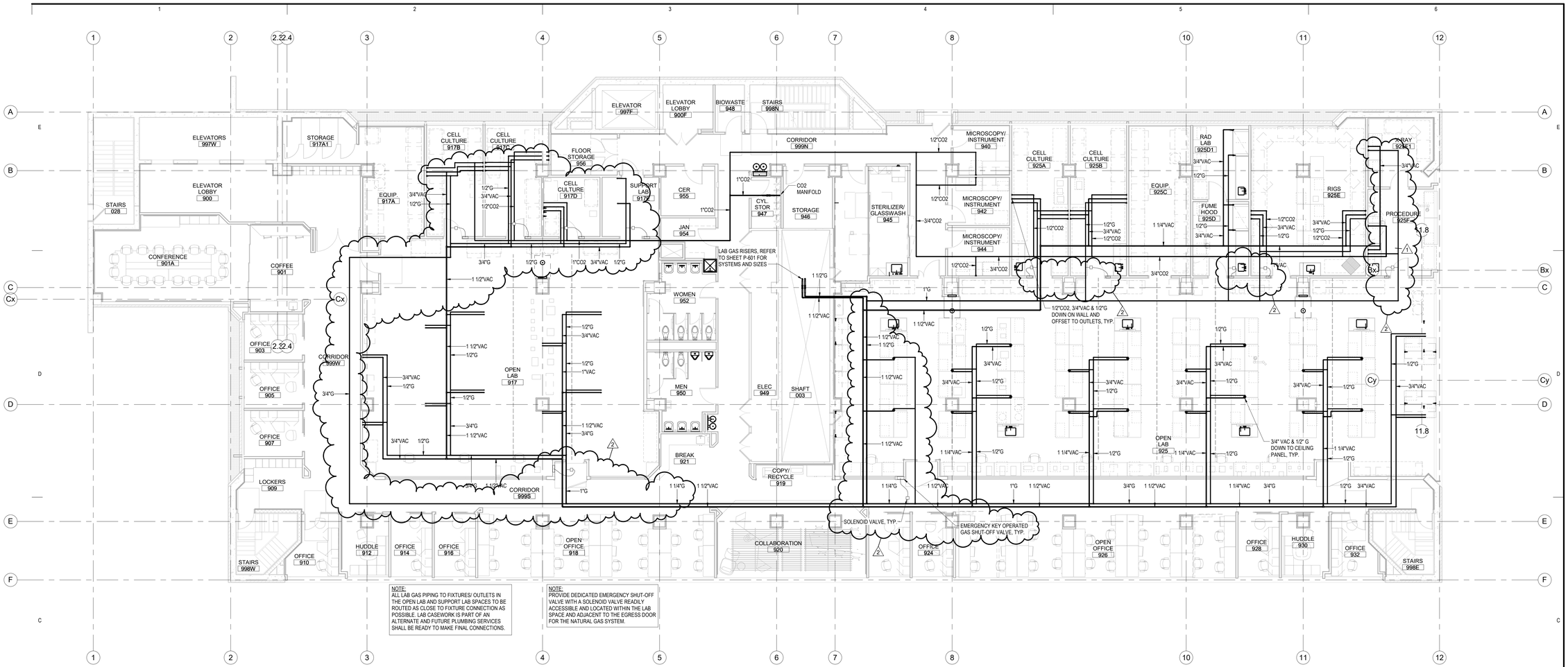
1/8" = 1'-0"

Sheet Number

PPG-108

Project Status

CONSTRUCTION DOCUMENTS



NOTE:
ALL LAB GAS PIPING TO FIXTURES/ OUTLETS IN THE OPEN LAB AND SUPPORT LAB SPACES TO BE ROUTED AS CLOSE TO FIXTURE CONNECTION AS POSSIBLE. LAB CASEWORK IS PART OF AN ALTERNATE AND FUTURE PLUMBING SERVICES SHALL BE READY TO MAKE FINAL CONNECTIONS.

NOTE:
PROVIDE DEDICATED EMERGENCY SHUT-OFF VALVE WITH A SOLENOID VALVE READILY ACCESSIBLE AND LOCATED WITHIN THE LAB SPACE AND ADJACENT TO THE EGRESS DOOR FOR THE NATURAL GAS SYSTEM.

1 09_9TH FLOOR - LAB GAS PLAN
1/8" = 1'-0"

PROJECT NORTH / TRUE NORTH

4/12/2018 11:12:59 AM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2

Project Number	10062179
Original Issue	02/01/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER MICHAEL CLARK ZWATER JR.
3-28-18

Sheet Name

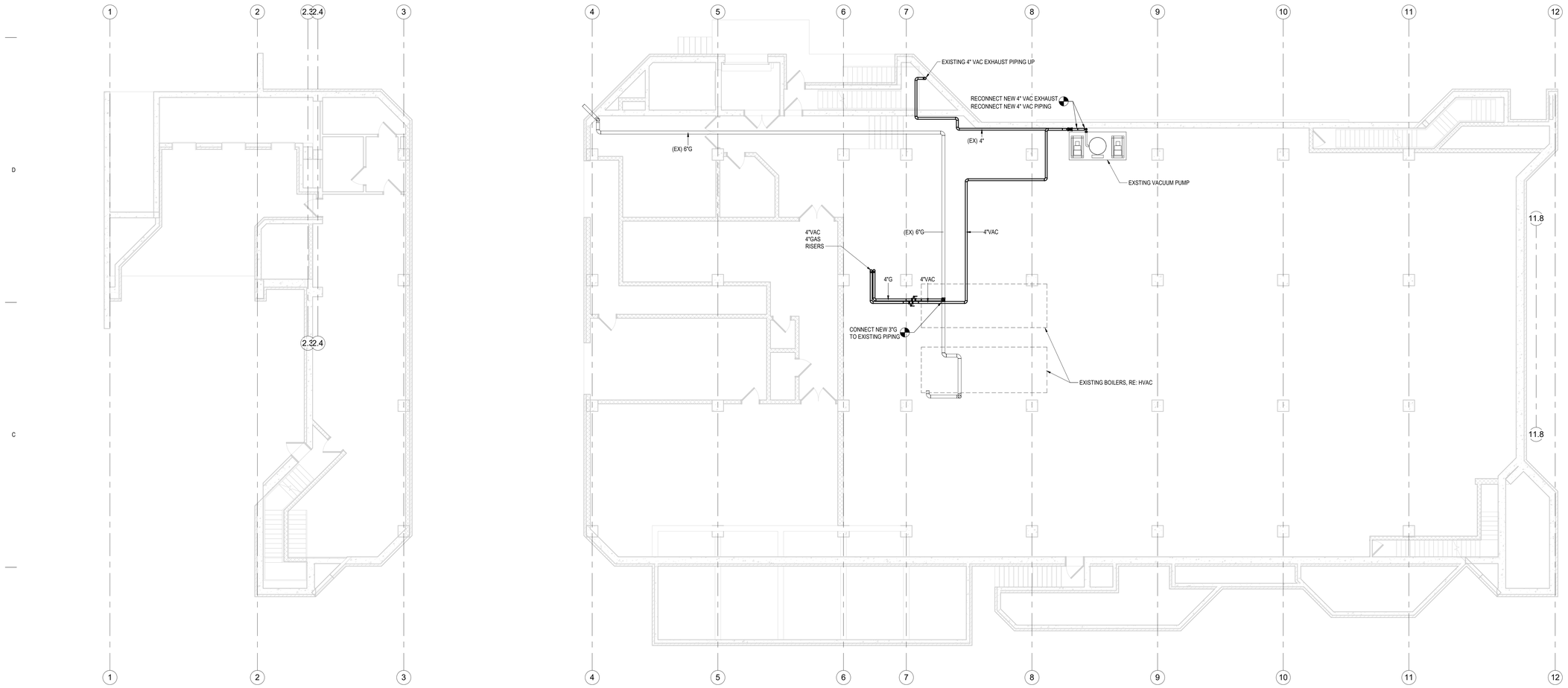
9TH FLOOR LAB GAS PLAN

Scale
1/8" = 1'-0"

Sheet Number

PPG-109

Project Status
CONSTRUCTION DOCUMENTS



1 01_GROUND FLOOR - LAB GAS PLAN
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	02/01/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM C. ZAVATKAY JR.
3-28-18

Sheet Name

GROUND FLOOR LAB GAS PLAN

Scale

1/8" = 1'-0"

Sheet Number

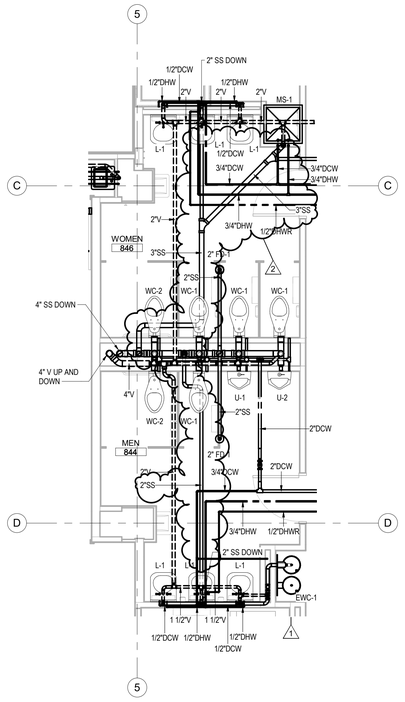
PPG-101

Project Status

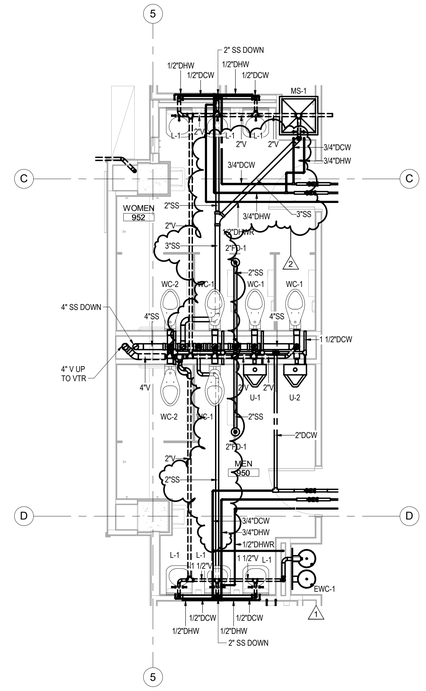
CONSTRUCTION DOCUMENTS

3/28/2018 1:54:25 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt



1 08_8TH FLOOR - PLUMBING PLAN - ENLARGED SCALE RESTROOM PLAN
1/4" = 1'-0"



2 09_9TH FLOOR - PLUMBING PLAN - ENLARGED SCALE RESTROOM PLAN
1/4" = 1'-0"

PROJECT NORTH
TRUE NORTH

4/26/2018 1:37:19 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-26	ADDENDUM #4

Project Number	10062179
Original Issue	05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM C. ZANATTA JR.
3-28-18

Sheet Name

ENLARGED SCALE PLUMBING PLANS

Scale

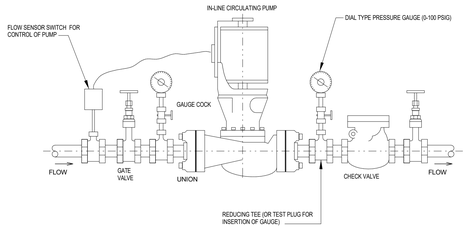
1/4" = 1'-0"

Sheet Number

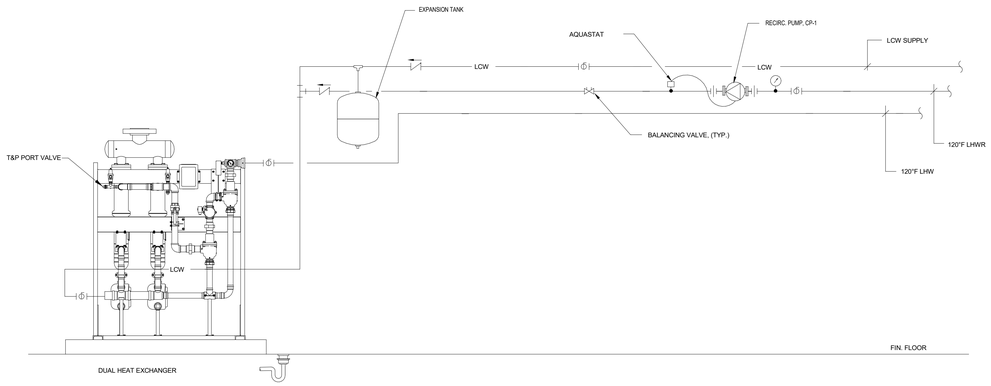
P-401

Project Status

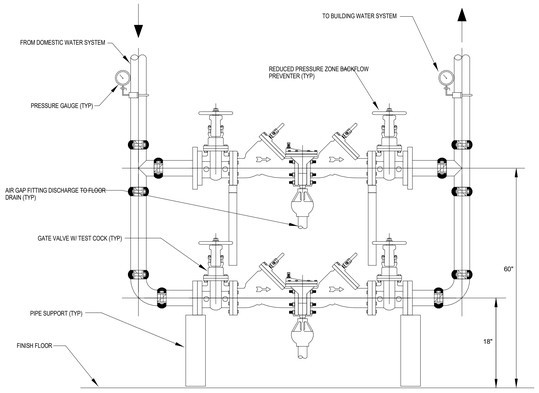
CONSTRUCTION DOCUMENTS



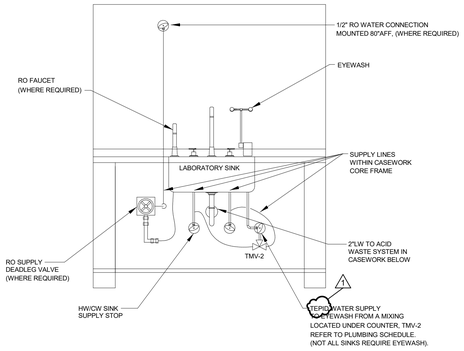
1 HOT WATER SYSTEM CIRCULATING PUMP STATION
NO SCALE



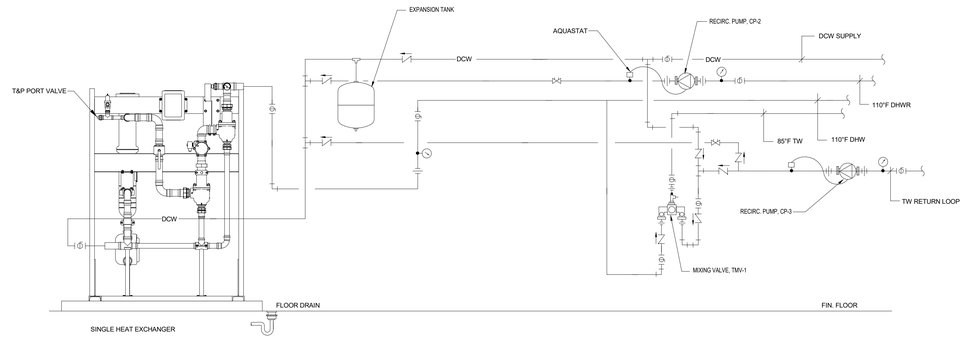
2 LAB WATER HEATER (DUAL HEAT EXCHANGER) PIPING DETAIL
NO SCALE



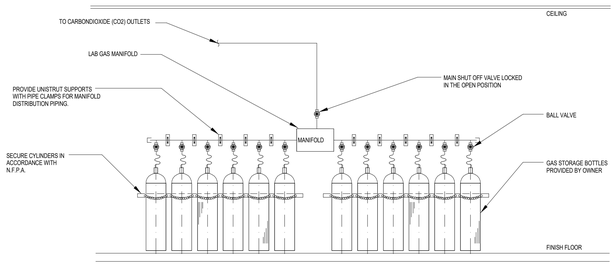
3 REDUCED PRESSURE BACKFLOW PREVENTER DETAIL
NO SCALE



4 TYPICAL LAB SINK UTILITY CONNECTION DETAIL
NO SCALE



5 DOMESTIC WATER HEATER (SINGLE HEAT EXCHANGER) PIPING DETAIL
NO SCALE



6 LAB GAS (CO2) MANIFOLD PIPING DETAIL, TYPICAL
NO SCALE

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	ADDENDUM #2

Project Number	10062179
Original Issue	11/10/17 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name

PLUMBING DETAILS

Scale
6" = 1'-0"

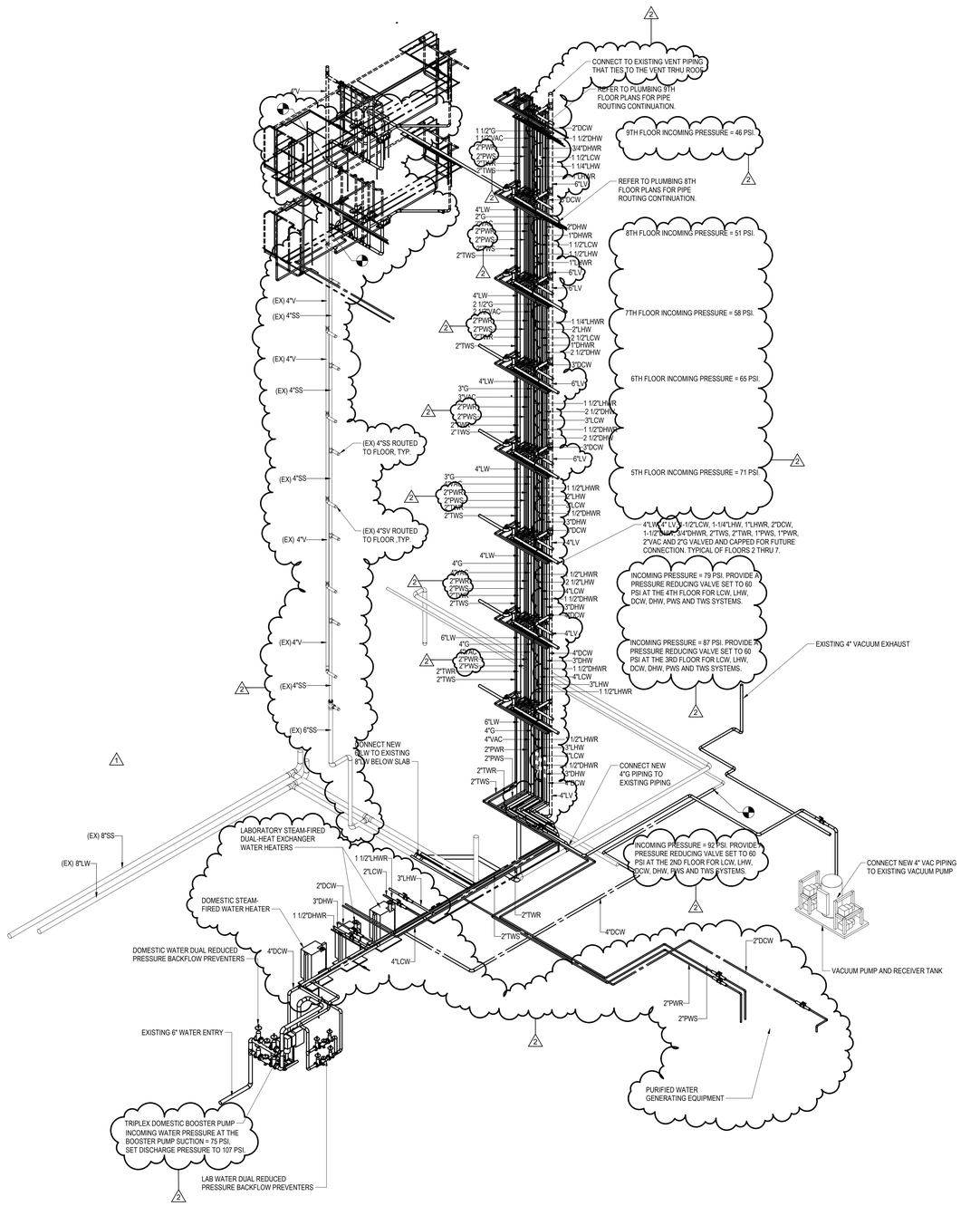
Sheet Number

P-501

Project Status
CONSTRUCTION DOCUMENTS

4/2/2018 11:12:43 AM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt



1 PLUMBING RISER - 3D

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	ADDENDUM #2
2	2018-04-26	ADDENDUM #4

Project Number	10062179
Original Issue	11/16/17 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER MICHAEL SHAWN ZWAYER
3-28-18

Sheet Name

PLUMBING RISER DIAGRAM

Scale

Sheet Number

P-601

Project Status

CONSTRUCTION DOCUMENTS

4/26/2018 1:37:23 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

PLUMBING FIXTURE SCHEDULE

MARK	DESCRIPTION	ROUGH-IN SIZE (INCH.)								
		DCW	DHW	DRAIN	VENT	LCW	LHW	TW	LW	LV
WC-1	WATER CLOSET	1	–	4	2					
WC-2	WATER CLOSET (ADA)	1	–	4	2					
U-1	URINAL (ADA)	3/4	–	2	1-1/2					
L-1	LAVATORY, WALL HUNG (ADA)	1/2	1/2	1-1/2	1-1/2					
EWC-1	ELECTRIC WATER COOLER (ADA)	1/2	-	1-1/2	1-1/2					
MSB-1	MOP SINK BASIN	3/4	3/4	3	2					
S-1	LAB SINK					1/2	1/2		2	1-1/2
S-2	LAB SINK					1/2	1/2		2	1-1/2
S-3	BREAK ROOM SINK (ADA)	1/2	1/2	1-1/2	1-1/2					
ESH-1	EMERGENCY SHOWER							1 -1/2		
EW-1	EYE WASH							1/2		

FIXTURE	MANUFACTURER	MODEL NO.	REMARKS
WATER CLOSET	ZURN	Z5637-BWL	FLOOR MOUNTED BACK OUTLET WHITE VITREOUS CHINA SIPHON JET CLOSET AND 1-1/2" TOP SPUD.
SEAT	ZURN	Z5950	WHITE ELONGATED OPEN FRONT SEAT, LESS COVER
VALVE	ZURN	Z6000PL-DF	DIAPHRAM TYPE MANUAL FLUSH VALVE WITH DUAL FLUSH.
WATER CLOSET	ZURN	Z5637-BWL	ADA, FLOOR MOUNTED BACK OUTLET WHITE VITREOUS CHINA SIPHON JET CLOSET AND 1-1/2" TOP SPUD.
SEAT	ZURN	Z5950	WHITE ELONGATED OPEN FRONT SEAT, LESS COVER
VALVE	ZURN	Z6000PL-DF	DIAPHRAM TYPE MANUAL FLUSH VALVE WITH DUAL FLUSH.
URINAL	ZURN	Z5755	MANUAL FLUSH VALVE, 0.125 GPF, 3/4" TOP SPUD. ADA COMPLIANT.
VALVE	ZURN	Z6003AV	MANUAL EXPOSED AQUAVANTAGE FLUSH VALVE.
CARRIER	JAY R SMITH	SERIES 600	FLOOR MOUNTED CONCEALED CARRIER
LAVATORY	ZURN	Z5320	WALL HUNG LAVATORY, PROVIDE TRUEBRO HANDI LAV-GUARD INSULATION KITS.
FAUCET	ZURN	Z6950-XL-I-MS	HARD-WIRED, SENSOR ACTIVATED ELECTRONIC FAUCET - WITH ABOVE DECK MIXER, 0.5 GPM
EWC	ELKAY	LVRCGRNTLBWSK	8.0 GPH CAPACITY @ 90°F AMBIENT, 1/5 HP, 3.5 FLA STAINLESS STEEL TOP W/ VANDAL RESISTANT BUBBLER AND BOTTLE-FILLER.
MOP SINK	FIAT	TSBC9300	24" X 24" X 12" TERRAZZO MOP SINK
FAUCET	T&S	B-0665-CR-BSTR	WALL MOUNTED FAUCET WITH ATMOSPHERIC VACUUM BREAKER SPOUT. INTEGRAL STOPS, ADJUSTABLE WALL BRACE, PAIL HOOK AND 3/4" HOSE THREAD ON SPOUT.
HOSE	FIAT	832-AA	30" FLEXIBLE, HEAVY DUTY RUBBER HOSE WITH WALL BRACKET.
HANGER	FIAT	899-CC	24" LONG, BY 3" WIDE STAINLESS STEEL MOP HANGER.
SINK	-	-	PROVIDED BY LAB PLANNING, PLUMBING CONTRACTOR TO MAKE ALL FINAL CONNECTIONS.
FAUCET	-	-	PROVIDED BY LAB PLANNING, PLUMBING CONTRACTOR TO MAKE ALL FINAL CONNECTIONS.
SINK	-	-	PROVIDED BY LAB PLANNING, PLUMBING CONTRACTOR TO MAKE ALL FINAL CONNECTIONS.
FAUCET	-	-	PROVIDED BY LAB PLANNING, PLUMBING CONTRACTOR TO MAKE ALL FINAL CONNECTIONS.
SINK	ELKAY	LRAD 2521651	"LUSTERTONE" COUNTERTOP, SINGLE COMPARTMENT, 18 GAUGE STAINLESS STEEL, 6.5" DEEP AND SINGLE HOLE.
FAUCET	AMERICAN STANDARD	4332.300	SINGLE HANDLE FAUCET, PULL-DOWN SPRAY WITH ADJUSTABLE SPRAY PATTERN AND PUSH BUTTON ACTIVATION. METAL REINFORCED HOSE, INTEGRAL DOUBLE CHECK VALVE. (1.5 GPM). PROVIDE T&S B-1210 DECK MOUNTED GLASS FILLER WITH B-IWFK FILTRATION KIT.
	-	-	RECESSED SAFETY STATION WITH DRAIN PAN AND DAYLIGHT DRAIN, PROVIDED BY LAB PLANNING.
	-	-	DECK MOUNTED EYE WASH, PROVIDED BY LAB PLANNING.

WATER HAMMER ARRESTOR

PDI SYMBOL	FIXTURE UNIT RATING	ZURN	WADE	SMITH	JOSAM
A	1-11	100	W-5	5005	75001
B	12-32	200	W-10	5010	75002
C	33-60	300	W-20	5020	75003
D	61-113	400	W-50	5030	75004

DOMESTIC WATER HEATER SCHEDULE

MARK	SERVICE	LOCATION	TYPE	MBTUH OUTPUT	STEAM INLET PRESSURE	STEAM FLOW RATE (IBS/HR)	ELECTRICAL CHARACTERISTICS	MANUFACTURER/ MODEL NO.
WH-1	DOMESTIC HOT WATER	GROUND FLOOR MECHANICAL ROOM	STEAM TO WATER SEMI-INSTANTANEOUS	2,400	10 PSI	2,518	120/1□/60HZ	PVI/ COBREX CCX 120-60-10, DOUBLE WALL
WH-2/ WH-3	LABORATORY HOT WATER	GROUND FLOOR MECHANICAL ROOM	STEAM TO WATER SEMI-INSTANTANEOUS	3,000	10 PSI	3,148	120/1□/60HZ	(2) PVI/ COBREX CCX 120-75-10, DOUBLE WALL
EWH-1	POINT-OF -USE	COFFEE BREAK SINK	ELECTRIC	3.5 KW	-	-	120/1□/60HZ	EEMAX SP-3512 2

EXPANSION TANK SCHEDULE

MARK	LOCATION	TYPE	MAXIMUM ACCEPT VOLUME (GALLONS)	TOTAL VOLUMES (GALLONS)	SYSTEM CONNECTION	MANUFACTURER	MODEL NO.	REMARKS
EXT-1,2	GROUND FLOOR MECHANICAL ROOM	BLADDER	10	12.5	3/4"	AMTROL	AST-30	SIZE: DIA x H = 16-1/4" x 17-1/4"

HOSE BIBB SCHEDULE

MARK	MANUFACTURER	MODEL NO.	REMARKS
HB-1	WOODFORD	24P	3/4" BRASS WALL FAUCET WITH VACUUM BREAKER AND WHEEL HANDLE.

NOTES:
1) PROVIDE HOSE BIBBS IN MECHANICAL ROOMS ONLY.

THERMOSTATIC MIXING VALVE

MARK	MANUFACTURER	MODEL NO.	REMARKS
TMV-1	LAWLER	911	PROVIDE FOR EMERGENCY SHOWER TEPID WATER SUPPLY. BRONZE BODY, SHALL COMPLY WITH ANSI Z358.1 STANDARD.
TMV-2	LAWLER	911E	PROVIDE FOR EYEASH AT SINKS, ASSE 1071 APPROVED, BRONZE BODY, UNDERCOUNTER MOUNTED.

CLEANOUT SCHEDULE

MARK	DESCRIPTION	MANUFACTURER	MODEL NO.	LOCATION	REMARKS
CO	PIPING LINE CLEANOUT	J.R. SMITH	4400	ABOVE CEILING	CAST IRON CAULK FERRULE WITH LEAD SEAL PLUG.
FCO	FLOOR CLEANOUT	J.R. SMITH	4020	HARD FINISHED FLOOR	CAST IRON BODY, ROUND ADJUSTABLE NICKEL BRONZE SCORIAED TOP, LEAD SEAL AND "LEKEROMATE" SEAL.
FCO	FLOOR CLEANOUT	J.R. SMITH	4160	VINYL FLOOR	CAST IRON BODY, SQUARE ADJUSTABLE NICKEL BRONZE TOP WITH 1/8" RECESS, LEAD SEAL AND "LEKEROMATE" SEAL.

DRAIN SCHEDULE

MARK	MANUFACTURER	MODEL NO.	STRAINER SIZE	LOCATION	REMARKS
FD-1	J.R. SMITH	2005Y-P050	8" SQ	TOILET ROOMS/ SHOWER	CAST IRON BODY WITH SQUARE NICKEL BRONZE ADJUSTABLE B-STRAINER HEAD, FLASHING COLLAR AND PROSET TRAP GUARD.
FD-2	J.R. SMITH	2031C-P050	12" DIA	MECHANICAL ROOMS	CAST IRON BODY WITH FLASHING COLLAR, SOLID FREE STANDING SEDIMENT BUCKET. AND PROSET TRAP GUARD.
FS-1	J.R. SMITH	320-12	12" SQ	GLASSWARE WASHER/ STERILIZER/ ICE MACHINE	CAST IRON BODY WITH ANTI-SPLASH DOME STRAINER, HALF-GRATE TOP.
RD-1	WATTS	100-F	-	ROOF	EPOXY COATED CAST IRON BODY ROOF DRAIN WITH FLASHING CLAMP AND INTEGRAL GRAVEL STOP, STEEL DECK CLAMP WITH ADJUSTABLE EXTENSION, SELF-LOCKING POLYETHYLENE DOME AND NO HUB OUTLET.

PUMP SCHEDULE

MARK	SERVICE	LOCATION	FLOW (GPM)	TDH	TYPE	MOTOR			MANUFACTURER	MODEL NO. 1	REMARKS
						POWER	VOLTS/PHASE	RPM			
CP-1	DOMESTIC HOT WATER RETURN	GROUND FLOOR MECHANICAL ROOM	4	10 FT	BRONZE, INLINE	1/12 HP	115/1□	2650	BELL & GOSSETT	ECOCIRC 19-16 #6050B2003	-
CP-2	LABORATORY HOT WATER RETURN	GROUND FLOOR MECHANICAL ROOM	4	10 FT	BRONZE, INLINE	1/12 HP	115/1□	2650	BELL & GOSSETT	ECOCIRC 19-16 #6050B2003	-
WBP-1	DOMESTIC WATER	GROUND FLOOR MECHANICAL ROOM	200	50 FT	TRIPLEX	10 HP	460/3□	3600	GRUNDFOS	HYDRO MPC E 3CR20-04-3X208V	50/50/50 SPLIT VFD PUMPS

REDUCED PRESSURE BACKFLOW PREVENTER SCHEDULE

MARK	DESCRIPTION	SERVICE	DELIVERY (GPM)	PRESSURE DROP (PSI)	SIZE	REMARKS
RPBP-1	REDUCED PRESSURE BACKFLOW PREVENTER	DOMESTIC WATER SERVICE	200	8	6"	WATTS 909, PROVIDE AIR-GAP KIT
RPBP-2	REDUCED PRESSURE BACKFLOW PREVENTER	LABORATORY WATER SERVICE	100	8	4"	WATTS 009, PROVIDE AIR-GAP KIT
RPBP-3	REDUCED PRESSURE BACKFLOW PREVENTER	HEATING HOT WATER/ PROCESS COOLING WATER MAKE-UP	-	-	1"	WATTS 009, PROVIDE AIR-GAP KIT

PURIFIED WATER GENERATING EQUIPMENT SCHEDULE

MARK	SERVICE ZONE/ DESCRIPTION	MANUFACTURER	MODEL NO.	FEED	PRODUCT	REMARKS
PWE-1	LABORATORY/ PURIFIED WATER EQUIPMENT	EVOQUA	M83-012	80 GPM	60 GPM	SEE NOTES BELOW

NOTES:
1) DIMENSIONS: 168" L x 32" W X 89" H.
2) SHIPPING WEIGHT 3,400 LBS.
3) GENERATE ASTM TYPE II WATER.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovation to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	Author

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	ADDENDUM #2
2	2018-04-26	ADDENDUM #4

Project Number	10062179
Original Issue	11/10/17 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM CONNER ZWAYER JR.
3-28-18

Sheet Name

PLUMBING SCHEDULES

Scale

1/8" = 1'-0"

Sheet Number

P-701

Project Status

CONSTRUCTION DOCUMENTS

4/26/2018 4:15:01 PM

C:\rvt\2017\10062179-P-CENTRAL_SBOGALE.rvt

MECHANICAL SYMBOLS AND ABBREVIATIONS

ABBR.	SYMBOL	REMARKS
SV	SV	STEAM VENT
BF	BF	BOILER FEED
PCR	PCR	PUMPED CONDENSATE RETURN
BBD	BBD	BOILER BLOW DOWN
S(X)	S(X)	STEAM SUPPLY (X)=PRESSURE
CR(X)	CR(X)	STEAM CONDENSATE (X)=PRESSURE
HWS	HWS	HEATING HOT WATER SUPPLY
HWR	HWR	HEATING HOT WATER RETURN
HRWS	HRWS	HEAT RECOVERY WATER SUPPLY
HRWR	HRWR	HEAT RECOVERY WATER RETURN
CHWS	CHWS	CHILLED WATER SUPPLY
CHWR	CHWR	CHILLED WATER RETURN
HPWS	HPWS	HEAT PUMP WATER SUPPLY
HPWR	HPWR	HEAT PUMP WATER RETURN
GHS	GHS	GLYCOL HEATING HOT WATER SUPPLY
GHR	GHR	GLYCOL HEATING HOT WATER RETURN
GCS	GCS	GLYCOL CHILLED WATER SUPPLY
GCR	GCR	GLYCOL CHILLED WATER RETURN
CWS	CWS	CONDENSER WATER SUPPLY
CWR	CWR	CONDENSER WATER RETURN
CD	CD	CONDENSATE DRAIN
RV	RV	RELIEF VENT
G	G(X)	NATURAL GAS (X)=PRESSURE
	2-LINE SYMBOL: TOP VIEW / SIDE VIEW; 1-LINE SYMBOL	REMARKS
ISV		ISOLATION VALVE (BALL/BUTTERFLY/GATE - SEE SPECIFICATIONS)
BLV		BALL VALVE
BTV		BUTTERFLY VALVE
GTV		GATE VALVE
GLV		GLOBE VALVE
PLV		PLUG VALVE
CHV		CHECK VALVE (ARROW INDICATES DIRECTION OF FLOW)
		HOSE END CONNECTION
		MANUAL BALANCING VALVE
PRV		PRESSURE REDUCING VALVE
		FLOW MEASURING DEVICE
		(FLANGED/SCREWED) PIPE UNION OR FLANGE
		STRAINER
		RELIEF & PRESSURE RELIEF VALVE
		THERMOMETER
		PRESSURE GAGE WITH GAGE COCK
		ARROW INDICATES DOWNWARD PITCH OF PIPE
		ARROW INDICATES DIRECTION OF FLOW
		PIPE ECCENTRIC REDUCER
		PIPE CONCENTRIC REDUCER
		CAPPED END
		PIPE ELBOW UP
		PIPE ELBOW DOWN
		PIPE TEE UP
		PIPE TEE DOWN
		FLEXIBLE CONNECTOR
		EXPANSION JOINT
		AUTOMATIC FLOW CONTROL VALVE
		THERMOSTATIC EXPANSION VALVE
		AUTOMATIC AIR VENT
		MANUAL AIR VENT
		TEST PORT
		AUTOMATIC TWO-WAY VALVE
		AUTOMATIC THREE-WAY VALVE
		SOLENOID VALVE
		STEAM TRAP
		PIPE ALIGNMENT GUIDE
		PIPE ANCHOR
CO		CLEAN-OUT
CO		FLOOR CLEAN-OUT
OS&Y		OUTSIDE SCREW AND YOKE VALVE
		WATER FLOW DETECTOR
		TAMPER DETECTOR
		WATER METER
		BALL CHECK OR DRIP VALVE
		WALL TYPE POST INDICATOR ASSEMBLY
		EXISTING TO REMAIN
		WORK TO BE DEMOLISHED
		NEW WORK

MECHANICAL SYMBOLS AND ABBREVIATIONS

ABBR.	SYMBOL	REMARKS
	TYPE / CFM	HORIZONTALLY MOUNTED SUPPLY AIR DIFFUSER/REGISTER/GRILLE
	TYPE / CFM	HORIZONTALLY MOUNTED RETURN/EXHAUST AIR REGISTER/GRILLE
	TYPE / CFM	VERTICALLY MOUNTED SUPPLY AIR DIFFUSER/REGISTER/GRILLE
	DOWN / UP	
		RECTANGULAR DUCTWORK SUPPLY/OUTSIDE AIR ELBOW
		ROUND DUCTWORK SUPPLY/OUTSIDE AIR ELBOW
		OVAL DUCTWORK SUPPLY/OUTSIDE AIR ELBOW
		RECTANGULAR DUCTWORK RETURN AIR ELBOW
		ROUND DUCTWORK RETURN AIR ELBOW
		OVAL DUCTWORK RETURN AIR ELBOW
		RECTANGULAR DUCTWORK EXHAUST/RELIEF AIR ELBOW
		ROUND DUCTWORK EXHAUST/RELIEF AIR ELBOW
		OVAL DUCTWORK EXHAUST/RELIEF AIR ELBOW
FD		FIRE DAMPER - HORIZONTALLY MOUNTED
SD		SMOKE DAMPER - HORIZONTALLY MOUNTED
FSD		FIRE/SMOKE DAMPER - HORIZONTALLY MOUNTED
FD		FIRE DAMPER - VERTICALLY MOUNTED
SD		SMOKE DAMPER - VERTICALLY MOUNTED
FSD		FIRE/SMOKE DAMPER - VERTICALLY MOUNTED
VD		VOLUME DAMPER
AD	M	AUTOMATIC (MOTORIZED) DAMPER
DSD		DUCT MOUNTED SMOKE DETECTOR
		DUCT MOUNTED HUMIDIFIER
		AIR TERMINAL UNIT
		AIR TERMINAL UNIT WITH REHEAT COIL
		AIR TERMINAL UNIT WITH SOUND ATTENUATOR
		AIR TERMINAL UNIT WITH REHEAT COIL AND SOUND ATTENUATOR
SA	* SA	SUPPLY AIR (* DUCT SIZE)
RA	* RA	RETURN AIR (* DUCT SIZE)
EA	* EA	EXHAUST AIR (* DUCT SIZE)
OA	* OA	OUTSIDE AIR (* DUCT SIZE)
REL A	* RELA	RELIEF AIR (* DUCT SIZE)
	24x12	RECTANGULAR DUCT SIZE, FIRST NUMBER INDICATES SIZE FOR SIDE SHOWN
	24"	ROUND DUCT SIZE
	24/12	FLAT-OVAL DUCT SIZE, FIRST NUMBER INDICATES SIZE FOR SIDE SHOWN
	* / **	DETAIL OR SECTION DESIGNATION (* DETAIL OR SECTION REFERENCE) (** SHEET NUMBER DETAIL OR SECTION DRAWN ON)
		NEW TO EXISTING DESIGNATION
	*	EQUIPMENT DESIGNATION (* EQUIPMENT MARK NUMBER)
	TYPE (RATING); GPM REQUIRED; MBH (TOTAL FOR LOOP); ACTIVE LENGTH	FIN TUBE AND RADIANT PANEL DESIGNATION
	*	REFERENCE DESIGNATION (* NOTE NUMBER)
	INSERT INDICATES PIPE OR DUCT DESIGNATION; INSERT INDICATES NUMBER; RISER	REFERENCE DESIGNATION (* RISER NUMBER)
	H	HUMIDISTAT OR HUMIDITY SENSOR
	T	THERMOSTAT OR TEMPERATURE SENSOR
	P	PRESSURE SWITCH OR PRESSURE SENSOR
	S_{CO}	CARBON MONOXIDE DETECTOR
	S_{CO2}	CARBON DIOXIDE DETECTOR

MECHANICAL SYMBOLS AND ABBREVIATIONS

ABBR.	REMARKS	ABBR.	REMARKS
ACH	AIR CHANGES/HOUR	TSP	TOTAL STATIC PRESSURE
ADJ	ADJUSTABLE	TYP	TYPICAL
AFF	ABOVE FINISHED FLOOR	UNO	UNLESS NOTED OTHERWISE
ALT	ALTERNATE	V	VOLT(S)
AP	ACCESS PANEL	VAV	VARIABLE AIR VOLUME
APD	AIR PRESSURE DROP	VB	VACUUM BREAKER
AVG	AVERAGE	VEL	VELOCITY
BAS	BUILDING AUTOMATION SYSTEM	VFD	VARIABLE FREQUENCY DRIVE
BDD	GRAVITY BACKDRAFT DAMPER	VTR	VENT THRU ROOF
BHP	BRAKE HORSE POWER	W	WATT(S)
BTUH	BRITISH THERMAL UNITS PER HOUR	WC	WATER COLUMN
CAP	CAPACITY	WB	WET BULB
CFH	CUBIC FEET PER HOUR	WG	WATER GAUGE
CFM	CUBIC FEET PER MINUTE	WPD	WATER PRESSURE DROP
CI	CAST IRON	WSFU	WATER SUPPLY FIXTURE UNITS
CLG	CEILING, COOLING		
COND	CONDENSER, CONDENSATE	2P	TWO-POSITION
CONN	CONNECTION		
CV	CONSTANT VOLUME		
DB	DRY BULB		
dB	DECIBEL(S)		
DDC	DIRECT DIGITAL CONTROL		
DIA	DIAMETER		
DFU	DRAINAGE FIXTURE UNITS		
DN	DOWN		
DX	DIRECT EXPANSION		
EAT	ENTERING AIR TEMPERATURE		
EFF	EFFICIENCY		
EMCS	ENERGY MANAGEMENT AND CONTROL SYSTEM		
ESP	EXTERNAL STATIC PRESSURE		
EWT	ENTERING WATER TEMPERATURE		
EXH	EXHAUST		
EXST	EXISTING		
F	FAHRENHEIT		
FL	FLOOR		
FLA	FULL LOAD AMPS		
FLEX	FLEXIBLE		
FPM	FEET PER MINUTE		
FUT	FUTURE		
FXTR	FIXTURE		
GAL	GALLON(S)		
GPH	GALLON(S) PER HOUR		
GPM	GALLON(S) PER MINUTE		
HG	HOT GAS		
HP	HORSEPOWER		
HR	HOUR		
HTG	HEATING		
HVAC	HEATING, VENTILATING, & AIR CONDITIONING		
HZ	HERTZ		
ID	INSIDE DIAMETER		
IE	INVERT ELEVATION		
IN	INCH(ES)		
I/O	INPUT/OUTPUT		
KW	KILOWATT(S)		
LAT	LEAVING AIR TEMPERATURE		
#	POUNDS		
LBS	POUNDS		
LF	LINEAR FOOT, LINEAR FEET		
LWT	LEAVING WATER TEMPERATURE		
MAX	MAXIMUM		
MBH	THOUSANDS BTU/HR		
MCC	MOTOR CONTROL CENTER		
MFR	MANUFACTURER		
MISC	MISCELLANEOUS		
MIN	MINUTE(S), MINIMUM		
MTD	MOUNTED		
NC	NORMALLY CLOSED, NOISE CRITERIA		
NO	NORMALLY OPEN, NUMBER		
NR	NOISE REDUCTION		
NRC	NOISE REDUCTION COEFFICIENT		
NTS	NOT TO SCALE		
OD	OUTSIDE DIAMETER, OVERFLOW STORM DRAIN		
OS&Y	OUTSIDE SCREW AND YOKE VALVE		
PD	PRESSURE DROP		
PH	PHASE		
PLBG	PLUMBING		
PSI	POUND(S) PER SQUARE INCH		
PSIA	POUND(S) PER SQUARE INCH ABSOLUTE		
PSIG	POUND(S) PER SQUARE INCH GAGE		
QTY	QUANTITY		
REQD	REQUIRED		
RH	RELATIVE HUMIDITY		
RL	REFRIGERANT LIQUID		
RPM	REVOLUTIONS PER MINUTE		
RM	ROOM		
RS	REFRIGERANT SUCTION		
SAT	SATURATION		
SCFM	STANDARD CUBIC FEET PER MINUTE		
SHT	SHEET		
SIM	SIMILAR		
SP	SUMP PUMP, STATIC PRESSURE		
SQ	SQUARE		
TD	TEMPERATURE DIFFERENTIAL		
TEMP	TEMPERATURE		

MECHANICAL GENERAL NOTES

1. CONSTRUCTION PHASING AS SHOWN IN THIS DRAWING SET PRIMARILY APPLIES TO WORK PERFORMED IN THE GROUND FLOOR MECHANICAL ROOM AND CENTRAL MECHANICAL SHAFT. THE PHASING AS SHOWN ARE RECOMMENDATIONS TO HELP MINIMIZE DISRUPTIONS OF HVAC SYSTEMS SERVING REMAINING PORTIONS OF THE BUILDING THAT MUST REMAIN OPERATIONAL.
2. THE PHASING PLANS ARE RECOMMENDATIONS PHASING SHALL BE ACCOMPISHED AS FOLLOWS:
   a. PHASE 1 DEMOLITION OCCURS FOLLOWED BY PHASE 1 NEW CONSTRUCTION WORK.
   b. PHASE 2 DEMOLITION OCCURS FOLLOWED BY PHASE 2 NEW CONSTRUCTION WORK.
   c. PHASE 3 DEMOLITION OCCURS FOLLOWED BY PHASE 3 NEW CONSTRUCTION WORK.
   d. PHASE 4 DEMOLITION OCCURS FOLLOWED BY PHASE 4 NEW CONSTRUCTION WORK.
3. SOME PHASE DEMOLITION WORK AND NEW CONSTRUCTION WORK MAY OVERLAP AND OCCUR SIMULTANEOUSLY TO MINIMIZE DISRUPTIONS TO THE BUILDING AND OCCUR WITHIN THE ALLOTTED OUTAGES DURATIONS. SUCH AS WHEN REPLACING GROUND FLOOR SUPPLY AIR DUCTWORK FROM AIR HANDLING UNITS TO EXISTING SUPPLY AIR RISERS. THIS WORK MAY HAVE TO BE PERFORMED IN MULTIPLE SECTIONS OVER MULTIPLE NIGHTS/WEEKENDS TO ACCOMPISH ONE PHASE OF WORK.
4. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
5. CENTRAL HVAC SYSTEM SHUT DOWNS SHALL OCCUR BETWEEN FRIDAY AT 5:00 PM UNTIL MONDAY AT 5:00 AM AND SHALL BE SCHEDULED TWO WEEKS IN ADVANCE WITH THE UNIVERSITY. NIGHT AND WEEKEND WORK WILL BE REQUIRED IN ORDER TO ACCOMPLISH THIS.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 05/18/16 -

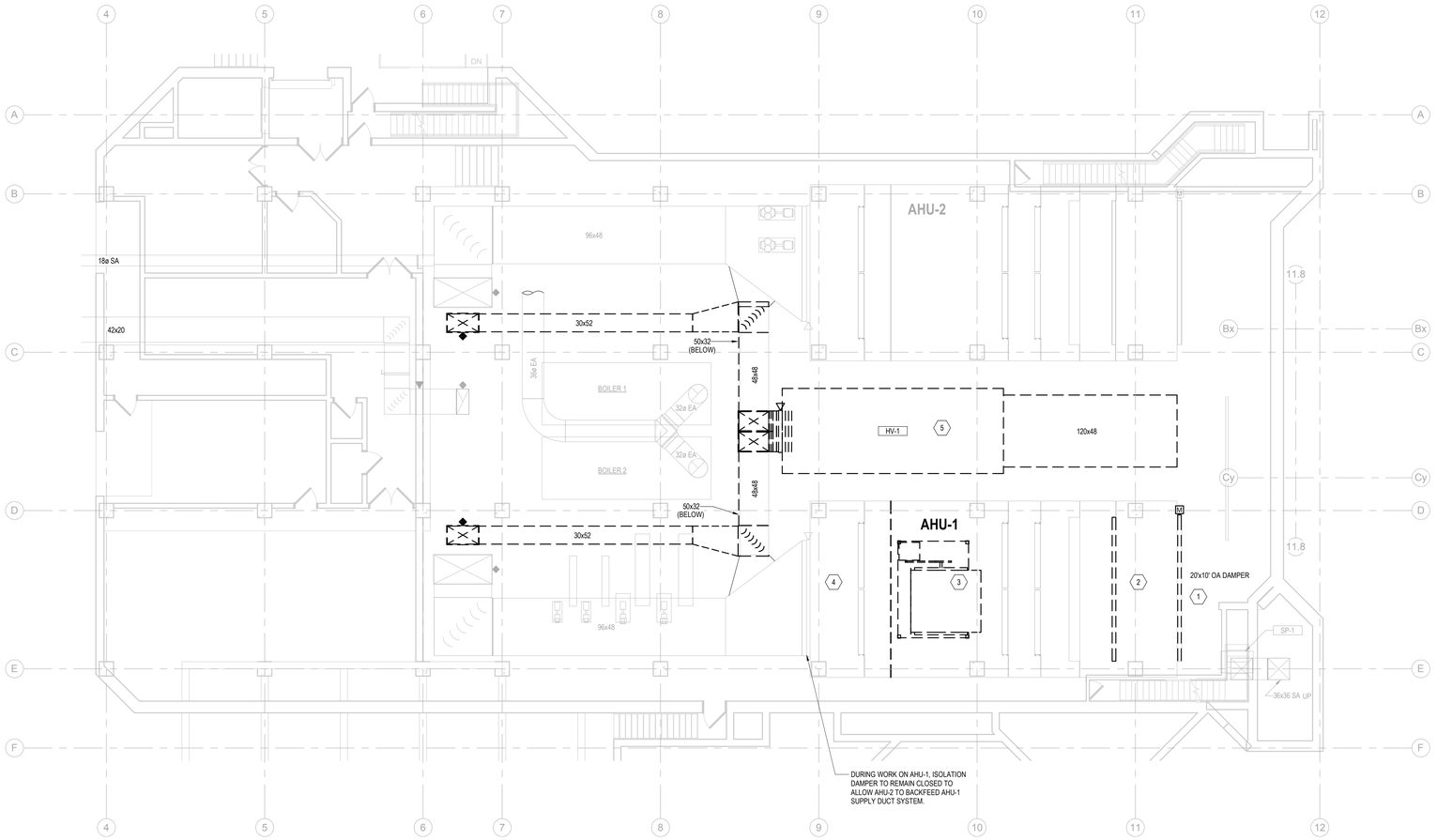
ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM ZINNAMON
3-28-18

Sheet Name
MECHANICAL SYMBOLS AND ABBREVIATIONS

Sheet Number
M-001

Project Status

3/29/2018 2:39:18 PM
C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt



1 GROUND FLOOR DEMOLITION HVAC PLAN - PHASE 1

1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. CENTRAL HVAC SYSTEM SHUT DOWNS SHALL OCCUR BETWEEN FRIDAY AT 5:00 PM UNTIL MONDAY AT 5:00 AM AND SHALL BE SCHEDULED TWO WEEKS IN ADVANCE WITH THE UNIVERSITY. NIGHT AND WEEKEND WORK WILL BE REQUIRED IN ORDER TO ACCOMPLISH THIS.
4. WORK ON AND INSIDE EXISTING AIR HANDLING UNITS SHALL BE COMPLETED ONE AT A TIME TO ALLOW ONE AIR HANDLING UNIT TO CONTINUE TO OPERATE.
5. NEW SUPPLY AIR DUCT RISERS SHALL BE INSTALLED IN CENTRAL SHAFT AND EXISTING SUPPLY AIR DUCT RISERS SHALL REMAIN TO SERVE FLOORS TWO THROUGH SEVEN.
6. SEE DETAIL SHEET M-503 FOR ADDITIONAL INFORMATION PERTAINING TO WORK ON THE AIR HANDLING UNITS.

MECHANICAL KEYNOTES

1. REMOVE EXISTING INTAKE DAMPER, ACTUATORS AND CONTROLS IN EXISTING AHU HOUSING. APPROXIMATE SIZE OF INTAKE DAMPER IS 20 FT X 10 FT. FIELD VERIFY ACTUAL SIZE.
2. REMOVE EXISTING ELECTROSTATIC CARTRIDGE FILTERS IN EXSTING AHU'S TO MAKE SPACE FOR NEW MERV 8 PRE-FILTER RACK. INCLUDE REMOVAL OF EXISTING CONDUIT AND WIRE BACK FROM FILTER UNIT TO ELECTRICAL PANEL.
3. REMOVE EXISTING SUPPLY AIR FAN, MOTOR, VFD, CONTROLS, CONDUIT AND WIRE FROM FAN BACK TO ELECTRICAL PANEL, FP-EM. ELECTRICAL PANEL DESIGNATION BASED ON ORIGINAL CONSTRUCTION DOCUMENTS, CONFIRM PANEL PRIOR TO DISCONNECTING.
4. REMOVE EXISTING LIGHT FIXTURES IN AHU'S.
5. REMOVE EXISTING HV-1 UNIT AND ASSOCIATED DUCTWORK INCLUDING ASSOCIATED RISER IN CENTRAL SHAFT FROM GROUND FLOOR UP TO AND INCLUDING 9TH FLOOR. INCLUDE REMOVAL OF EXISTING CONDUIT AND WIRE FROM UNIT BACK TO MOTOR CONTROL CENTER MCC-GN.

PROJECT NORTH / TRUE NORTH

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	02/23/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER — 3-28-18

Sheet Name

GROUND FLOOR DEMO HVAC PLAN - PHASE 1

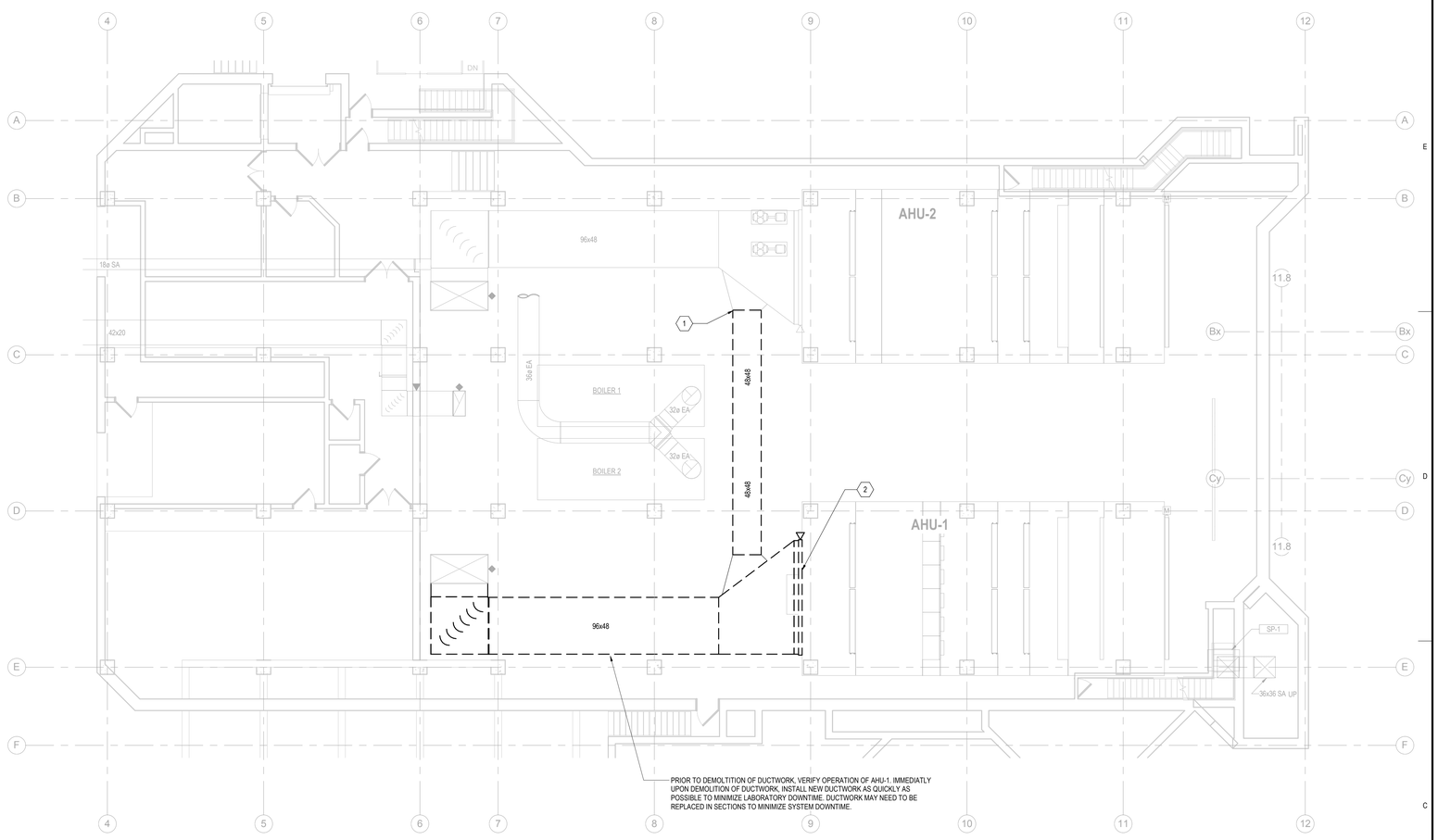
Sheet Number

MHD-101-1

Project Status

3/28/2018 2:40:38 PM

C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt



1 GROUND FLOOR DEMOLITION HVAC PLAN - PHASE 2

1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. CENTRAL HVAC SYSTEM SHUT DOWNS SHALL OCCUR BETWEEN FRIDAY AT 5:00 PM UNTIL MONDAY AT 5:00 AM AND SHALL BE SCHEDULED TWO WEEKS IN ADVANCE WITH THE UNIVERSITY. NIGHT AND WEEKEND WORK WILL BE REQUIRED IN ORDER TO ACCOMPLISH THIS.
4. NEW SUPPLY AIR DUCT RISERS SHALL BE INSTALLED IN CENTRAL SHAFT IN PHASE 2 AND EXISTING DUCT RISERS SHALL REMAIN TO SERVE FLOORS TWO THROUGH SEVEN. SEE SHEET MH-101-2 FOR PHASE 2 NEW DUCT INSTALLATION.
5. REPLACE EXISTING SUPPLY AIR DUCTS IN GROUND FLOOR MECHANICAL ROOM FROM AHUS TO NEW VERTICAL SUPPLY AIR DUCT. SEE SHEET MH-101-2 FOR PHASE 2 NEW DUCTWORK INSTALLATION.
6. SEE DETAIL SHEET M-503 FOR ADDITIONAL INFORMATION PERTAINING TO WORK ON THE AIR HANDLING UNITS.

MECHANICAL KEYNOTES

1. PROVIDE TEMPORARY CAP AS SHOWN ON MH-101-2 SO AHU-2 CAN CONTINUE TO SERVE BUILDING.
2. REMOVE EXISTING SMOKE ISOLATION DAMPER AND ACTUATOR AND REPLACE WITH NEW AS INDICATED ON SHEET MH-101-2.

PROJECT NORTH / TRUE NORTH

3/28/2018 2:40:40 PM

C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER 3-28-18

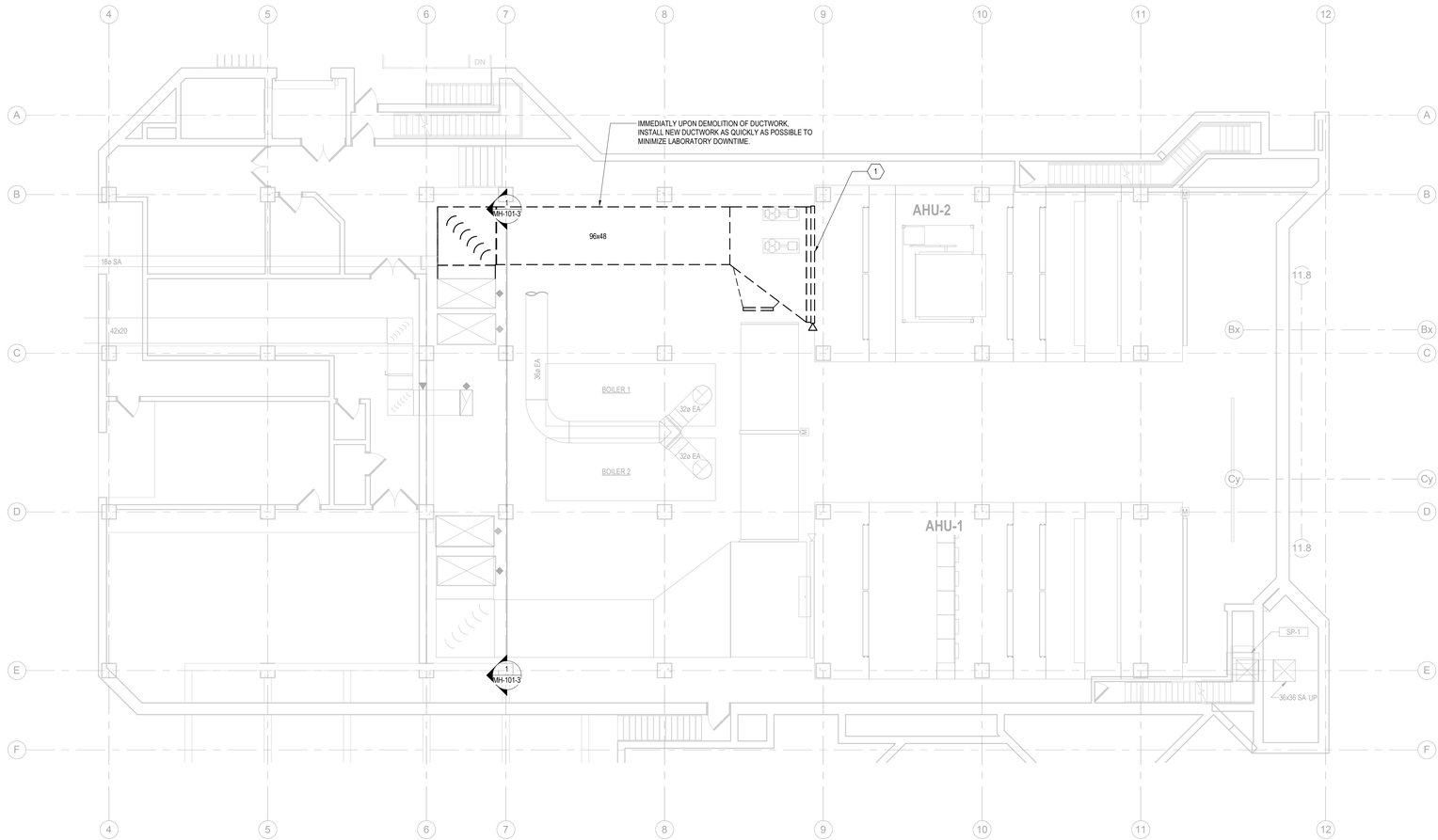
Sheet Name

GROUND FLOOR DEMOLITION HVAC PLAN - PHASE 2

Sheet Number

MHD-101-2

Project Status



1 GROUND FLOOR DEMOLITION HVAC PLAN - PHASE 3
1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. CENTRAL HVAC SYSTEM SHUT DOWNS SHALL OCCUR BETWEEN FRIDAY AT 5:00 PM UNTIL MONDAY AT 5:00 AM AND SHALL BE SCHEDULED TWO WEEKS IN ADVANCE WITH THE UNIVERSITY. NIGHT AND WEEKEND WORK WILL BE REQUIRED IN ORDER TO ACCOMPLISH THIS.
4. NEW SUPPLY AIR DUCT RISERS SHALL BE INSTALLED IN CENTRAL SHAFT IN PHASE 2 AND EXISTING DUCT RISERS SHALL REMAIN TO SERVE FLOORS TWO THROUGH SEVEN. SEE SHEET MH-101-2 FOR PHASE 2 NEW DUCT INSTALLATION.
5. REPLACE EXISTING SUPPLY AIR DUCTS IN GROUND FLOOR MECHANICAL ROOM FROM AHUS TO NEW VERTICAL SUPPLY AIR DUCT. SEE SHEET MH-101-2 FOR PHASE 2 NEW DUCTWORK INSTALLATION.
6. SEE DETAIL SHEET M-503 FOR ADDITIONAL INFORMATION PERTAINING TO WORK ON THE AIR HANDLING UNITS.

MECHANICAL KEYNOTES

1. REMOVE EXISTING SMOKE ISOLATION DAMPER AND ACTUATOR AND REPLACE WITH NEW AS INDICATED ON SHEET MH-101-3.

PROJECT NORTH
TRUE NORTH

3/29/2018 2:40:42 PM

C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

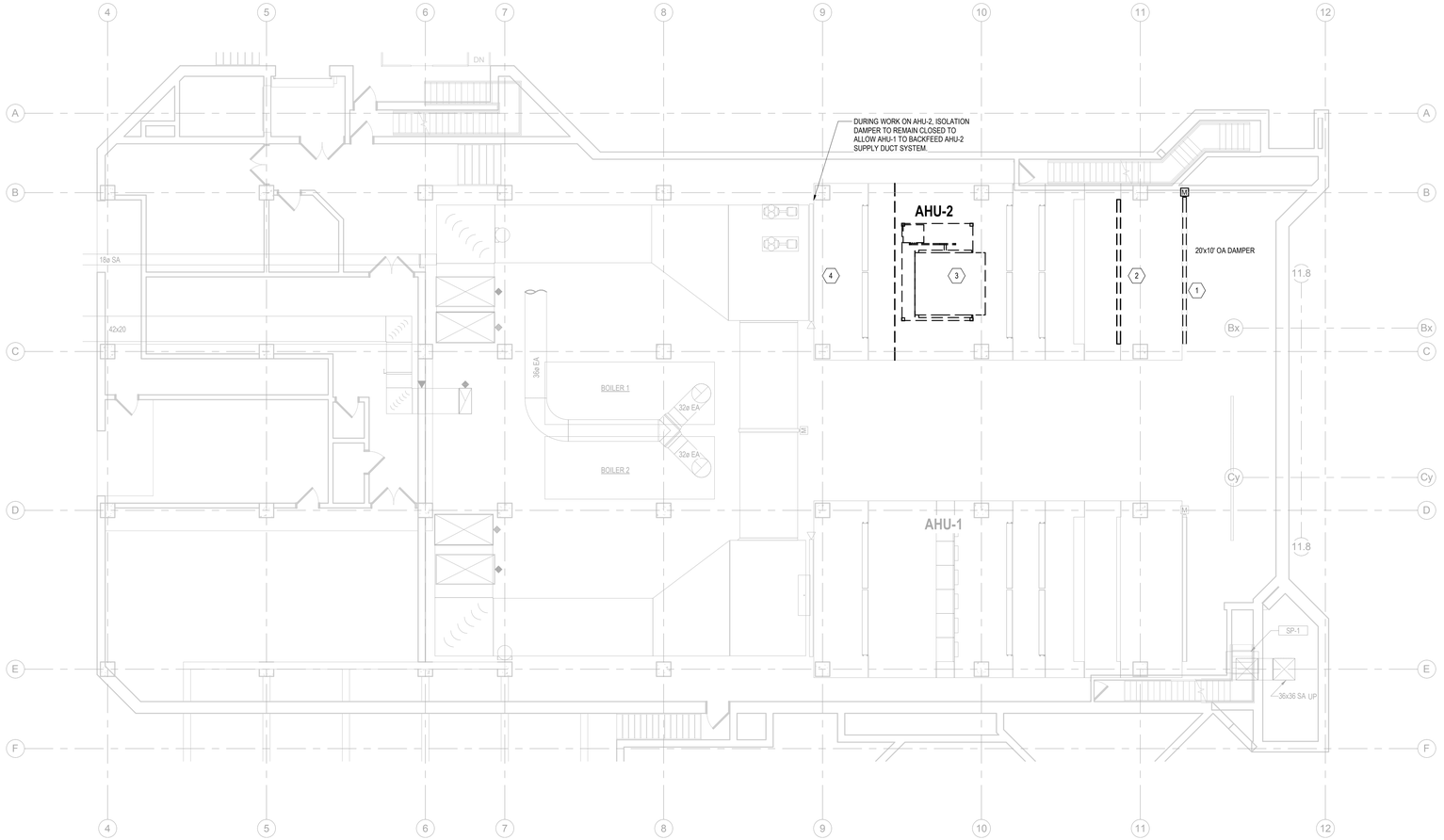
Project Number 10062179
Original Issue 02/26/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM ZINNATO
3-28-18

Sheet Name
GROUND FLOOR DEMO HVAC PLAN - PHASE 3

Sheet Number
MHD-101-3

Project Status



1 GROUND FLOOR DEMOLITION HVAC PLAN - PHASE 4

1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. CENTRAL HVAC SYSTEM SHUT DOWNS SHALL OCCUR BETWEEN FRIDAY AT 5:00 PM UNTIL MONDAY AT 5:00 AM AND SHALL BE SCHEDULED TWO WEEKS IN ADVANCE WITH THE UNIVERSITY. NIGHT AND WEEKEND WORK WILL BE REQUIRED IN ORDER TO ACCOMPLISH THIS.
4. WORK ON AND INSIDE EXISTING AIR HANDLING UNITS SHALL BE COMPLETED ONE AT A TIME TO ALLOW ONE AIR HANDLING UNIT TO CONTINUE TO OPERATE.
5. NEW SUPPLY AIR DUCT RISERS SHALL BE INSTALLED IN CENTRAL SHAFT AND EXISTING DUCT RISERS SHALL REMAIN TO SERVE FLOORS TWO THROUGH SEVEN.
6. REPLACE EXISTING SUPPLY AIR DUCTS IN GROUND FLOOR MECHANICAL ROOM FROM AHU'S TO NEW VERTICAL SUPPLY AIR DUCT.
7. SEE DETAIL SHEET M-503 FOR ADDITIONAL INFORMATION PERTAINING TO WORK ON THE AIR HANDLING UNITS.

MECHANICAL KEYNOTES

1. REMOVE EXISTING INTAKE DAMPER, ACTUATORS AND CONTROLS IN EXISTING AHU HOUSING. APPROXIMATE SIZE OF INTAKE DAMPER IS 20 FT X 10 FT. FIELD VERIFY ACTUAL SIZE.
2. REMOVE EXISTING ELECTROSTATIC CARTRIDGE FILTERS IN EXSTING AHU'S TO MAKE SPACE FOR NEW MERV 8 PRE-FILTER RACK. INCLUDE REMOVAL OF EXISTING CONDUIT AND WIRE BACK FROM FILTER UNIT TO ELECTRICAL PANEL.
3. REMOVE EXISTING SUPPLY AIR FAN, MOTOR, VFD, CONTROLS, CONDUIT AND WIRE FROM FAN BACK TO ELECTRICAL PANEL, FP-EM. ELECTRICAL PANEL DESIGNATION BASED ON ORIGINAL CONSTRUCTION DOCUMENTS, CONFIRM PANEL PRIOR TO DISCONNECTING.
4. REMOVE EXISTING LIGHT FIXTURES IN AHU'S.

PROJECT NORTH / TRUE NORTH

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 02/26/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name

GROUND FLOOR DEMO HVAC PLAN - PHASE 4

Sheet Number

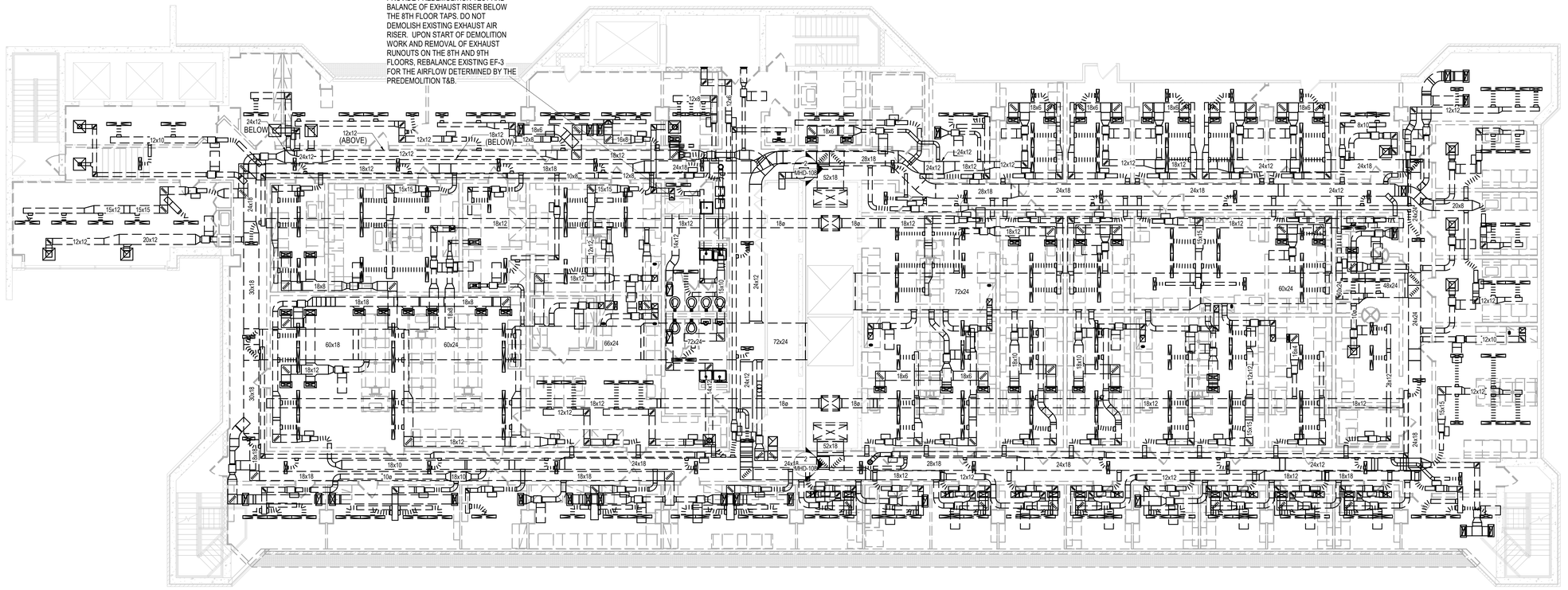
MHD-101-4

Project Status

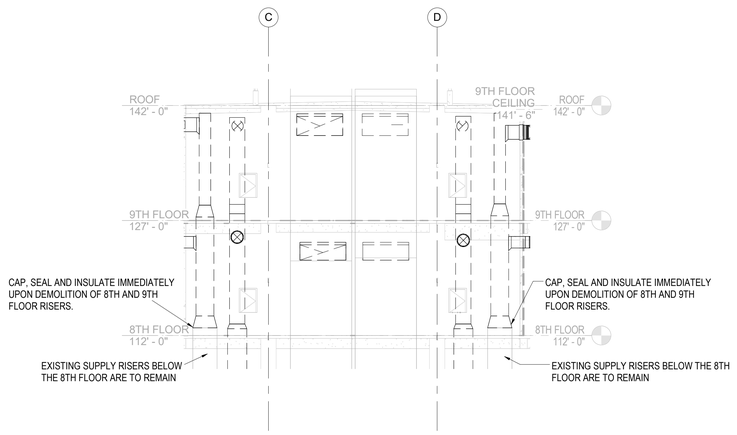
3/28/2018 2:40:45 PM

C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt

PROVIDE PREDEMOLITION TEST AND BALANCE OF EXHAUST RISER BELOW THE 8TH FLOOR TAPS. DO NOT DEMOLISH EXISTING EXHAUST AIR RISER. UPON START OF DEMOLITION WORK AND REMOVAL OF EXHAUST RUNOUTS ON THE 8TH AND 9TH FLOORS, REBALANCE EXISTING EF-3 FOR THE AIRFLOW DETERMINED BY THE PREDEMOLITION T&B.



1 8TH FLOOR DEMOLITION HVAC PLAN - PHASES 1 THRU 4
1/8" = 1'-0"



2 8TH AND 9TH FLOOR DUCT RISERS - PHASE 1
1/8" = 1'-0"

GENERAL NOTES:

1. WORK ON THE 8TH AND 9TH FLOORS CAN OCCUR THROUGOUT ALL PHASES OF THE PROJECT.
2. REMOVE ALL DUCTWORK, DIFFUSERS AND EQUIPMENT SHOWN WITH DEMOLITION HATCH. INCLUDE REMOVAL OF CONTROLS, THERMOSTATS, WIRING, ETC. THIS IS INTENDED TO INCLUDE ALL DUCTWORK, DIFFUSERS, EQUIPMENT, CONTROLS, ETC WITH THE EXCEPTION OF THE EXISTING RISERS SHOWN AS EXISTING TO REMAIN.
3. SIZES OF EXISTING TO BE DEMOLISHED DUCTWORK ARE BASED ON EXISTING DOCUMENTS AND ARE SHOWN TO PROVIDE A GENERAL INDICATION OF APPROXIMATE SIZES OF DUCTWORK.
4. PATCH/CAP DUCTWORK ON EXISTING TO REMAIN DUCTS AT POINT WHERE DUCTWORK HAS BEEN DEMOLISHED TO ALLOW SYSTEMS TO REMAIN OPERATIONAL.
5. DUCTWORK PATCH/CAP SHALL BE OF SAME MATERIAL AS THE DUCT TO WHICH IT IS BEING APPLIED AND SHALL BE FULLY SEALED AIR TIGHT. INSULATED SYSTEMS SHALL BE RE-INSULATED TO MATCH EXISTING.

PROJECT NORTH / TRUE NORTH

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	ADDENDUM #2

Project Number 10062179
Original Issue 05/18/16 -

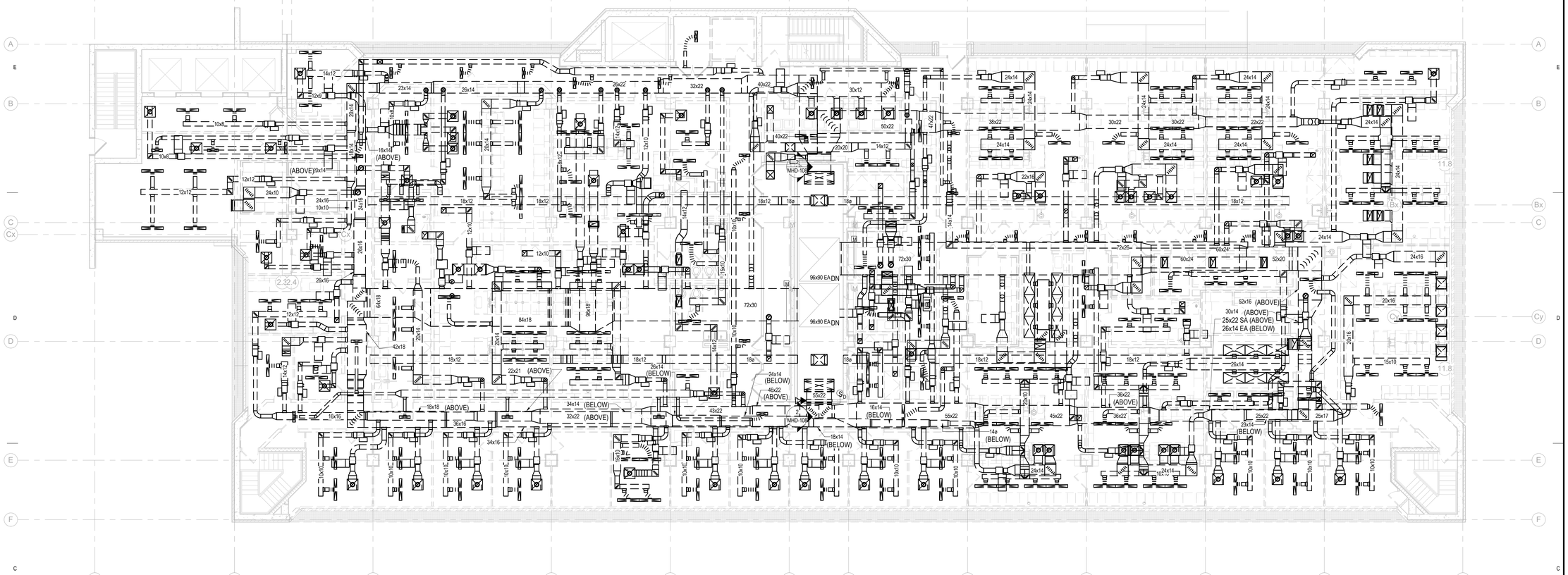
ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER 3-28-18

Sheet Name
8TH FLOOR DEMOLITION HVAC PLAN - PHASES 1 THRU 4

Sheet Number
MHD-108

Project Status

4/13/2018 10:22:58 AM
C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt



1 9TH FLOOR DEMOLITION HVAC PLAN - PHASES 1 THRU 4

1/8" = 1'-0"

GENERAL NOTES:

1. WORK ON THE 8TH AND 9TH FLOORS CAN OCCUR THROUGHOUT ALL PHASES OF THE PROJECT.
2. REMOVE ALL DUCTWORK, DIFFUSERS AND EQUIPMENT SHOWN WITH DEMOLITION HATCH. INCLUDE REMOVAL OF CONTROLS, THERMOSTATS, WIRING, ETC. THIS IS INTENDED TO INCLUDE ALL DUCTWORK, DIFFUSERS, EQUIPMENT, CONTROLS, ETC WITH THE EXCEPTION OF THE EXISTING RISERS SHOWN AS EXISTING TO REMAIN.
3. SIZES OF EXISTING TO BE DEMOLISHED DUCTWORK ARE BASED ON EXISTING DOCUMENTS AND ARE SHOWN TO PROVIDE A GENERAL INDICATION OF APPROXIMATE SIZES OF DUCTWORK.
4. PATCH/CAP DUCTWORK ON EXISTING TO REMAIN DUCTS AT POINT WHERE DUCTWORK HAS BEEN DEMOLISHED TO ALLOW SYSTEMS TO REMAIN OPERATIONAL.
5. DUCTWORK PATCH/CAP SHALL BE OF SAME MATERIAL AS THE DUCT TO WHICH IT IS BEING APPLIED AND SHALL BE FULLY SEALED AIR TIGHT. INSULATED SYSTEMS SHALL BE RE-INSULATED TO MATCH EXISTING.

PROJECT NORTH / TRUE NORTH

4/13/2018 10:24:03 AM

C:\rvt\2017\10062179-MI-CENTRAL_WZAVATKAY.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	ADDENDUM #2

Project Number 10062179
Original Issue 05/18/16 -

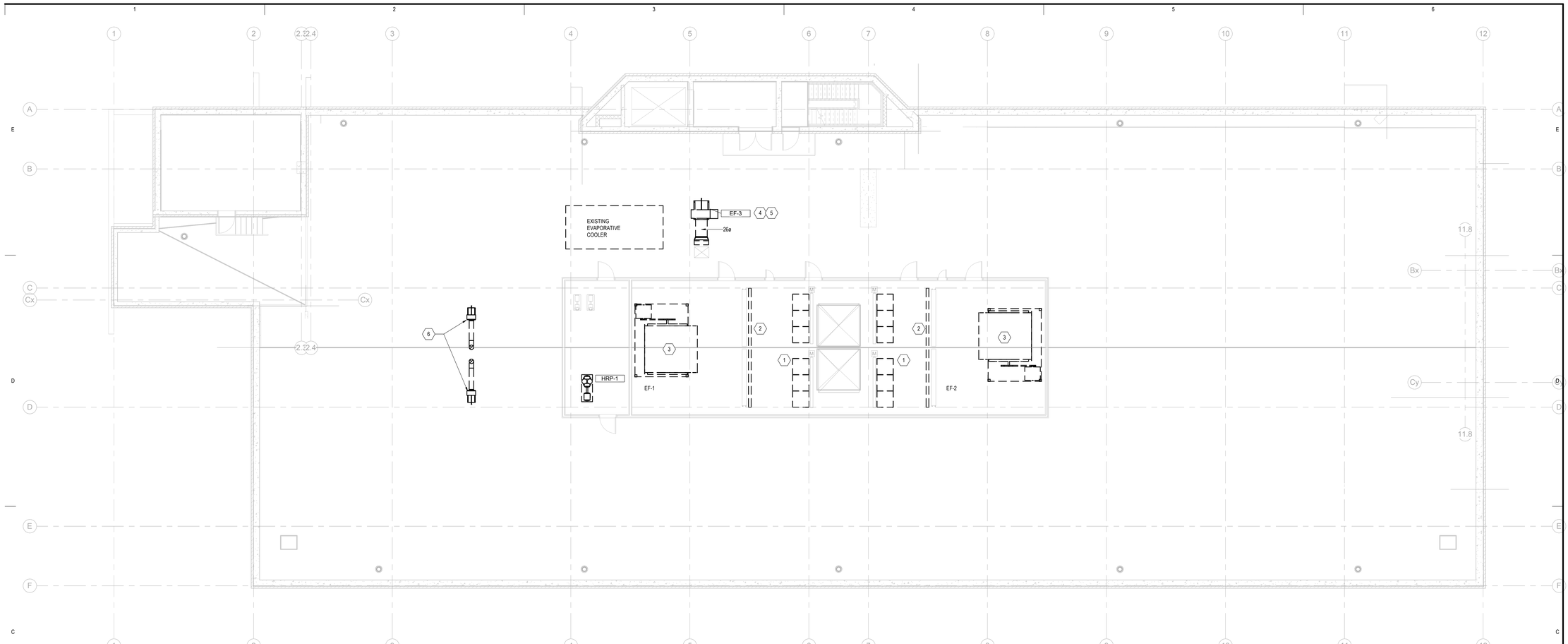
ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER

3-28-18

Sheet Name
9TH FLOOR DEMOLITION HVAC PLAN - PHASES 1 THRU 4

Sheet Number
MHD-109

Project Status



1 ROOF DEMOLITION HVAC PLAN

1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. EF-1/EF-2 WORK CAN BE PERFORMED THROUGHOUT ANY PHASE OF THE PROJECT, BUT WORK ON AND INSIDE EXISTING EXHAUST AIR UNITS SHALL BE COMPLETED ONE AT A TIME TO ALLOW ONE EXHAUST FAN UNIT TO CONTINUE TO OPERATE.
4. EF-3 SHOULD NOT BE DEMOLISHED UNTIL PHASE 4 AFTER EF-1/EF-2 WORK HAS BEEN COMPLETED AND THE NEW EXHAUST DUCT ON THE 9TH FLOOR IS READY TO BE CONNECTED TO THE EXISTING TOILET EXHAUST RISER.
5. SEE DETAIL SHEET M-503 FOR ADDITIONAL INFORMATION PERTAINING TO WORK ON THE EXHAUST FAN UNITS.
6. DEMOLITION OF EXISTING EF-3 AND ASSOCIATED DUCTWORK ON ROOF. DEMOLITION OF EXISTING EVAPORATIVE COOLER AND ASSOCIATED PIPING AND TWO SMALL EXHAUST FANS AND ASSOCIATED DUCTWORK ON WEST SIDE OF PENTHOUSE SHALL BE INCLUDED AS PART OF THE ROOF WORK ADD ALTERNATE #1.

MECHANICAL KEYNOTES

1. REMOVE EXISTING SOUND ATTENUATORS.
2. REMOVE EXISTING ROLL FILTERS, ROLL FILTER MOTOR, CONDUIT AND WIRE BACK TO ELECTRICAL PANEL, RP-EMPH. ELECTRICAL PANEL DESIGNATION BASED ON ORIGINAL CONSTRUCTION DOCUMENTS, CONFIRM PANEL PRIOR TO DISCONNECTING.
3. REMOVE EXISTING DUCTWORK FROM DISCHARGE OF FAN INSIDE EXHAUST FAN PLENUM HOUSING FLUSH WITH PLENUM HOUSING ROOF. SEE DETAIL 3/M-503 FOR ADDITIONAL INFORMATION.
4. REMOVE EXISTING EF-3 DUCTWORK DOWN TO 9TH FLOOR AND TIE INTO EXISTING BUILDING EXHAUST MAIN AS SHOWN ON DETAIL 2/MH-109. INCLUDE REMOVAL OF FAN, DUCTWORK ON ROOF DOWN TO 9TH FLOOR, CONDUIT, AND WIRING BACK TO ELECTRICAL PANEL. DUCTWORK TIE-IN ON 9TH FLOOR SHALL OCCUR TO MINIMIZE DISRUPTION ON FLOORS 2-7 THAT WILL NOT BE RENOVATED AS PART OF THIS PROJECT.
5. PROVIDE PRE-DEMOLITION TEST AND BALANCE OF EF-3 BELOW THE 8TH FLOOR TAP AS NOTED ON SHEET MHD-108 PRIOR TO DEMOLITION OF EF-3.
6. REMOVE TWO SMALL EXHAUST FANS, ASSOCIATED DUCTWORK, CONDUIT AND WIRING.

PROJECT NORTH / TRUE NORTH

3/28/2018 2:41:12 PM

C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER CHRISTOPHER ZINOVICH 3-28-18

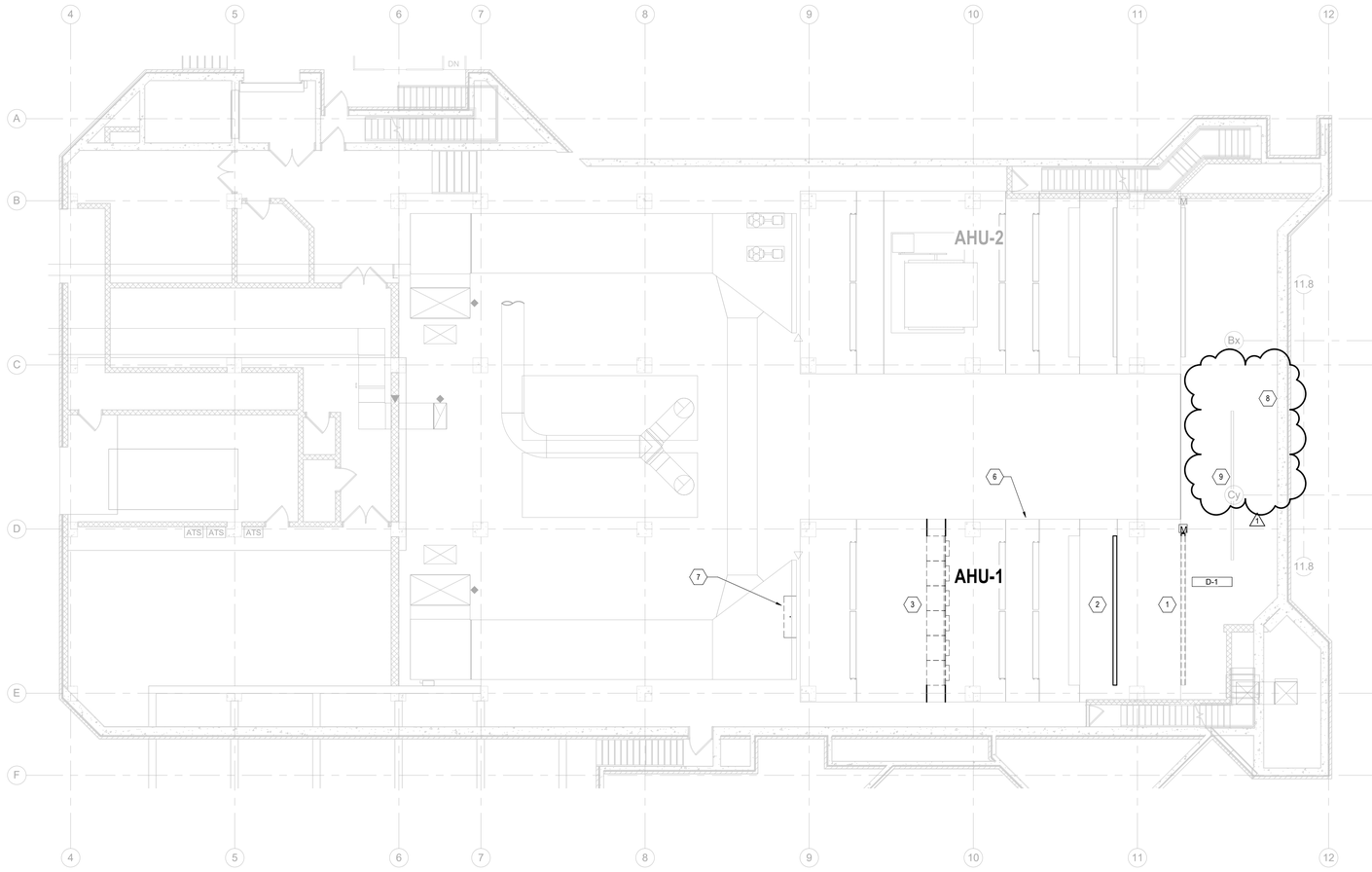
Sheet Name

ROOF DEMOLITION HVAC PLAN

Sheet Number

MHD-111

Project Status



1 GROUND FLOOR HVAC PLAN - PHASE 1
1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. CENTRAL HVAC SYSTEM SHUT DOWNS SHALL OCCUR BETWEEN FRIDAY AT 5:00 PM UNTIL MONDAY AT 5:00 AM AND SHALL BE SCHEDULED TWO WEEKS IN ADVANCE WITH THE UNIVERSITY. NIGHT AND WEEKEND WORK WILL BE REQUIRED IN ORDER TO ACCOMPLISH THIS.
4. NEW SUPPLY AIR DUCT RISERS SHALL BE INSTALLED IN CENTRAL SHAFT AND EXISTING DUCT RISERS SHALL REMAIN TO SERVE FLOORS TWO THROUGH SEVEN.
5. REPLACE EXISTING SUPPLY AIR DUCTS IN GROUND FLOOR MECHANICAL ROOM FROM AHU'S TO NEW VERTICAL SUPPLY AIR DUCT.
6. SEE DETAIL SHEET M-503 FOR ADDITIONAL INFORMATON PERTAINING TO WORK ON THE AIR HANDLING UNITS.

MECHANICAL KEYNOTES

1. INSTALL NEW INTAKE DAMPER, ACTUATORS AND CONTROLS IN EXISTING AHU HOUSING. APPROXIMATE SIZE OF INTAKE DAMPER IS 20 FT X 10 FT. FIELD VERIFY ACTUAL SIZE.
2. INSTALL NEW PRE-FILTER RACK IN EXISTING AHU HOUSING. INSTALL NEW MERV 8 PRE-FILTERS
3. INSTALL NEW FAN WALL IN EXISTING AHU HOUSING. FAN WALL SHALL BE 6 FANS WIDE X 4 FANS HIGH.
4. NOT USED.
5. NOT USED.
6. PROVIDE NEW MARINE LIGHT FIXTURES INCLUDING LIGHT BULBS IN EACH SECTION OF EXISTING AHU'S.
7. INSTALL NEW REMOTE MOUNTED FAN WALL OPTIMIZATION PACKAGE CONTROL PANEL AT THIS LOCATION.
8. REPLACE WIRE MESH BIRDSCREEN ON EXISTING OUTSIDE AIR INTAKE LOUVER. NEW BIRDSCREEN SHALL BE ZINC PLATED STEEL, CONSTRUCTED WITH MINIMUM 19 GAUGE WIRE WITH 1/2" X 1/2" OPENINGS. BIRDSCREEN SHALL BE SECURELY FASTENED TO THE INSIDE FACE OF THE LOUVER. EXISTING OUTSIDE AIR LOUVER IS APPROXIMATELY 50 FT WIDE X 14 FT HIGH. CONTRACTOR SHALL VERIFY ACTUAL DIMENSIONS OF INSTALLED LOUVER. OUTSIDE AIR LOUVER IS AT THE SECOND FLOOR ELEVATION. BOTTOM OF LOUVER IS APPROXIMATELY 20 FEET ABOVE THE GROUND FLOOR LEVEL.
9. THOROUGHLY CLEAN (SWEEP/VACUUM) DIRT AND DEBRIS FROM OUTSIDE AIR PLENUM.

PROJECT NORTH / TRUE NORTH

4/25/2018 7:14:56 PM

C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-25	ADDENDUM #4

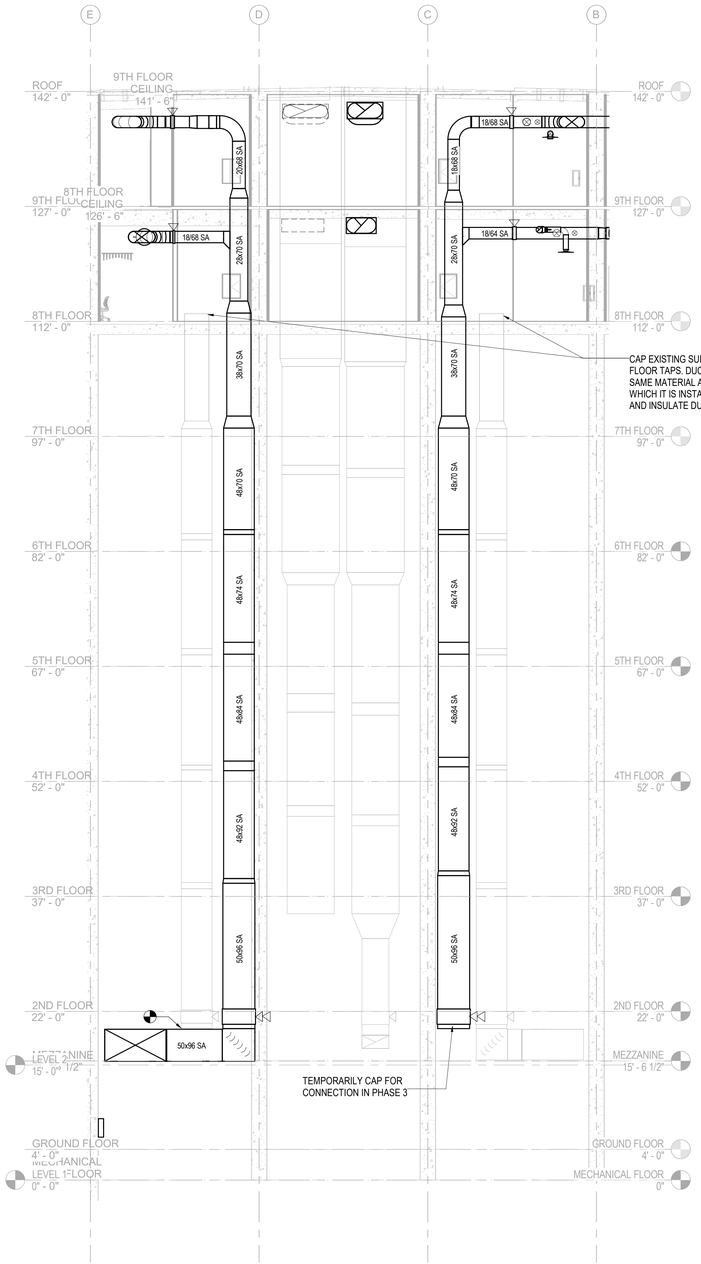
Project Number 10062179
Original Issue 02/26/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM ZAVATKAY 3-28-18

Sheet Name
GROUND FLOOR HVAC PLAN - PHASE 1

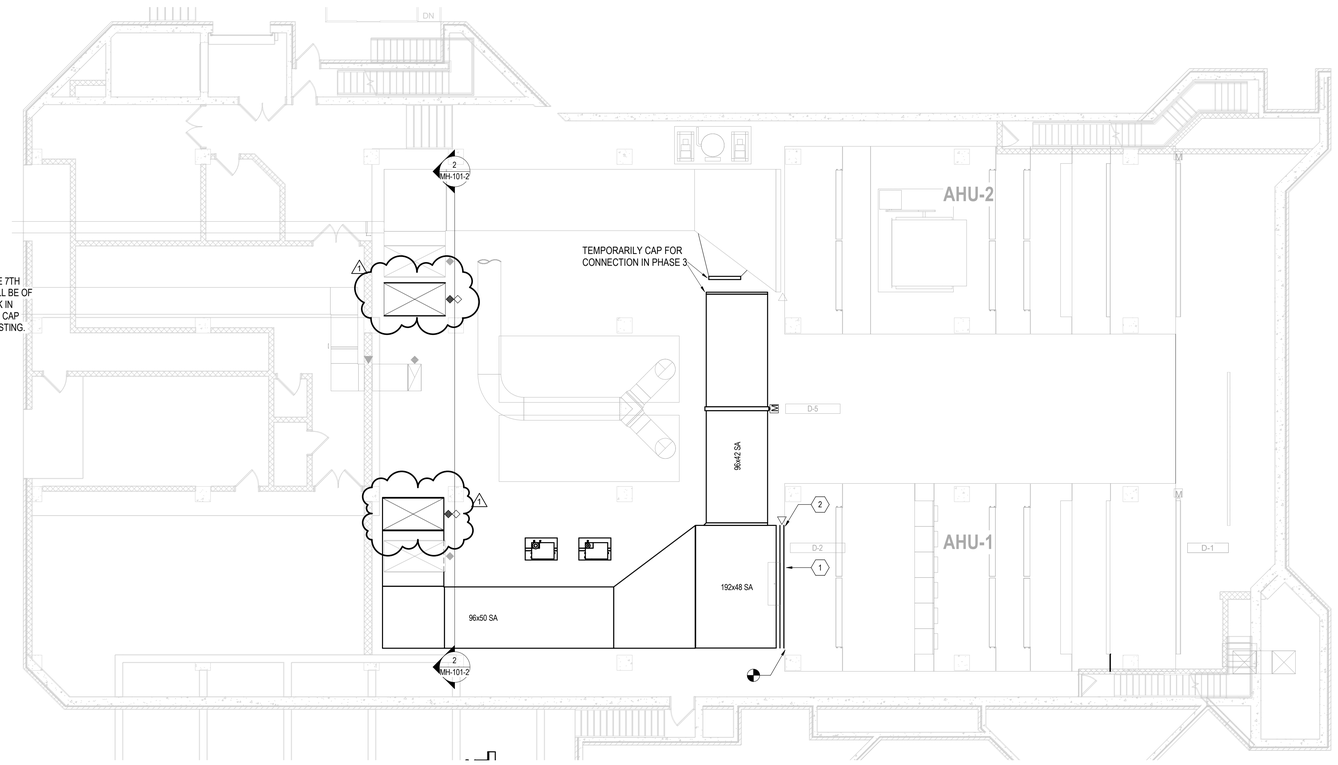
Sheet Number
MH-101-1

Project Status



2 DUCT RISER SECTION - PHASE 2

1/8" = 1'-0"



1 GROUND FLOOR HVAC PLAN - PHASE 2

1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. WORK ON AND INSIDE EXISTING AIR HANDLING UNITS SHALL BE COMPLETED ONE AT A TIME TO ALLOW ONE AIR HANDLING UNIT TO CONTINUE TO OPERATE.
4. CENTRAL HVAC SYSTEM SHUT DOWNS SHALL OCCUR BETWEEN FRIDAY AT 5:00 PM UNTIL MONDAY AT 5:00 AM AND SHALL BE SCHEDULED TWO WEEKS IN ADVANCE WITH THE UNIVERSITY. NIGHT AND WEEKEND WORK WILL BE REQUIRED IN ORDER TO ACCOMPLISH THIS.
5. NEW SUPPLY AIR DUCT RISERS SHALL BE INSTALLED IN CENTRAL SHAFT DURING PHASE 2 WORK. EXISTING SUPPLY DUCT RISERS SHALL REMAIN TO SERVE FLOORS TWO THROUGH SEVEN. NEW SUPPLY AIR DUCT RISER SIZES ARE SHOWN ON DUCT RISER SECTION ON THIS SHEET.
6. REPLACE EXISTING SUPPLY AIR DUCTS IN GROUND FLOOR MECHANICAL ROOM FROM AHU'S TO NEW VERTICAL SUPPLY AIR DUCT.
7. TEMPORAARY CAPS SHALL BE CONSTRUCTED FROM SAME MATERIAL AS DUCTWORK IN WHICH IT IS INSTALLED AND SHALL BE FULLY SEALED AIR TIGHT.
8. SEE DETAIL SHEET M-503 FOR ADDITIONAL INFORMATION PERTAINING TO WORK ON THE AIR HANDLING UNITS.
9. ALIGN NEW SUPPLY AIR DUCTWORK IN RISERS TO AVOID CONFLICT WITH EXISTING STEEL GRADING, PARTICULARY ON UPPER FLOORS WHERE DUCT SIZE GETS SMALLER.
10. IN LIEU OF REPLACING THE SUPPLY AIR DUCT MAINS AS SHOWN, THE CONTRACTOR MAY ELECT TO FULLY STRIP THE INTERNAL INSULATION FROM THE EXISTING DUCTS, REMOVE THE WELD PINS AND RE-INSULATE WITH EXTERNAL DUCT INSULATION. ALL INSULATION SHALL BE REMOVED FROM INSIDE THE DUCTS AND DUCTS VACUUMED TO REMOVE THE FIBER PARTICLES TO THE SATISFACTION OF THE OWNER AND ARCHITECT/ENGINEER. IF CONTRACTOR ACCEPTS THIS APPROACH THEY WILL ALSO BE REQUIRED TO INSTALL ACCESS DOORS OR OPENINGS AS REQUIRED TO ACCESS DUCT INTERIOR AND RESEAL THE DUCT OPENINGS PRIOR TO RETURNING SYSTEMS TO OPERATION.

MECHANICAL KEYNOTES

1. INSTALL NEW SMOKE DAMPER, ACTUATOR AND CONTROLS IN EXISTING AHU HOUSING. APPROXIMATE SIZE OF SMOKE DAMPER IS 192 INCH X 48 INCH. FIEILD VERIFY ACTUAL SIZE.
2. REPAIR AHU CASING AT SMOKE DAMPER WHERE SHAFT HAS DAMAGED EXISTING HOUSING.

PROJECT NORTH / TRUE NORTH

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-25	ADDENDUM #4

Project Number 10062179
Original Issue 05/18/16 -

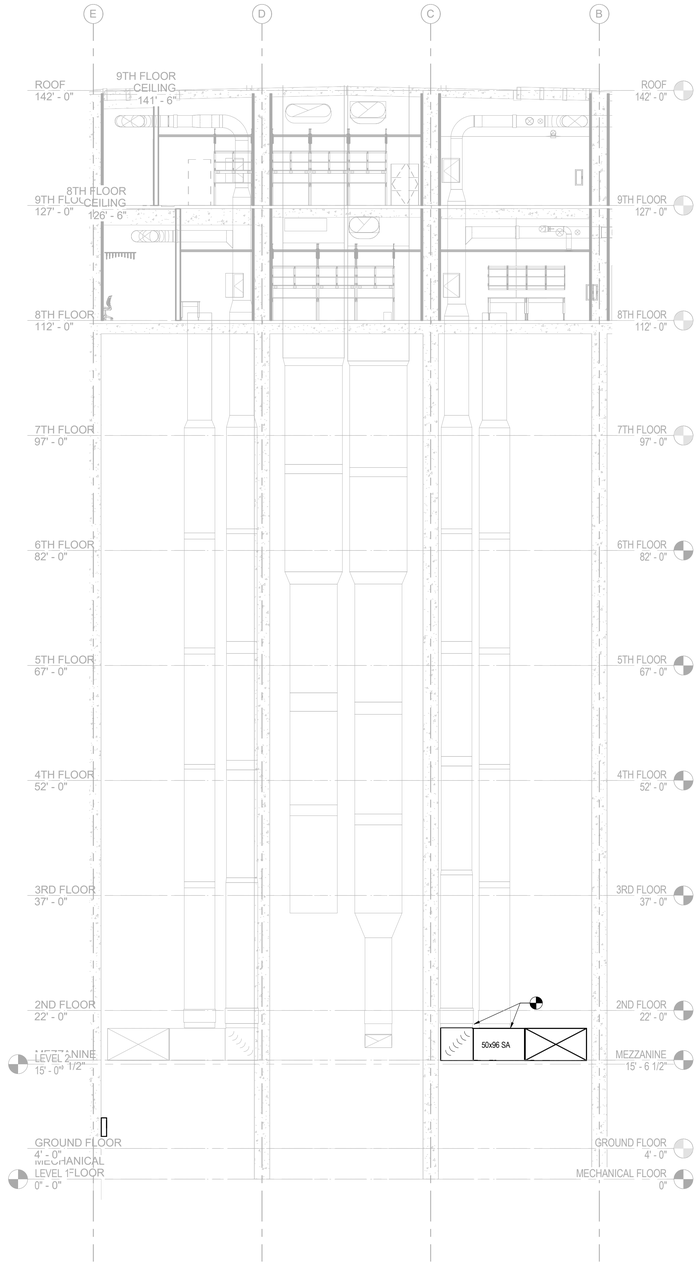
ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER CHARLES ZAVATKAY 3-28-18

Sheet Name
GROUND FLOOR HVAC PLAN - PHASE 2

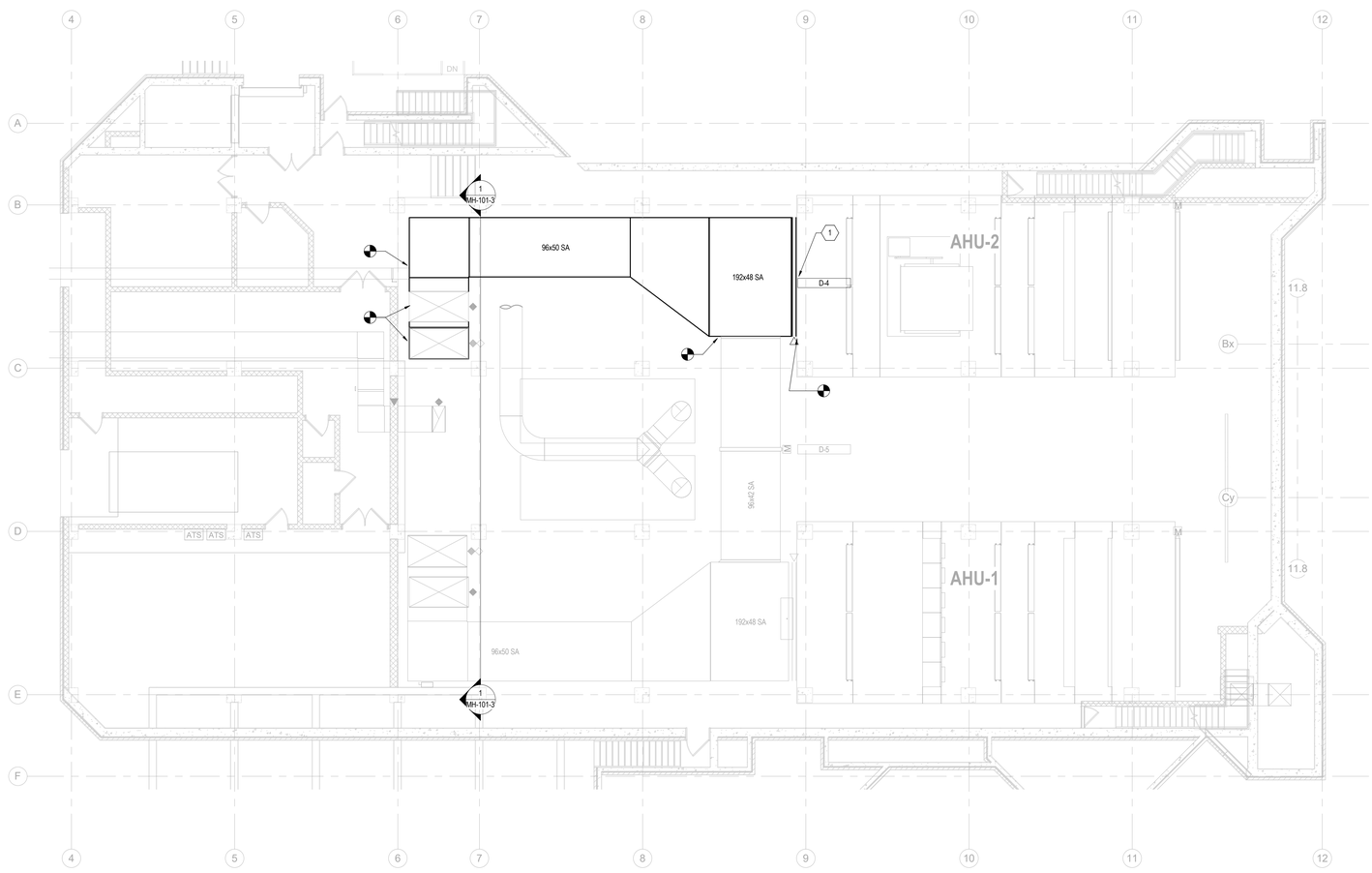
Sheet Number
MH-101-2

Project Status

4/25/2018 7:21:46 PM
C:\rvt\2017\10062179-MI-CENTRAL_WZAVATKAY.rvt



1 DUCT RISER SECTION - PHASE 3
1/8" = 1'-0"



2 GROUND FLOOR HVAC PLAN - PHASE 3
1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. CENTRAL HVAC SYSTEM SHUT DOWNS SHALL OCCUR BETWEEN FRIDAY AT 5:00 PM UNTIL MONDAY AT 5:00 AM AND SHALL BE SCHEDULED TWO WEEKS IN ADVANCE WITH THE UNIVERSITY. NIGHT AND WEEKEND WORK WILL BE REQUIRED IN ORDER TO ACCOMPLISH THIS.
4. NEW SUPPLY AIR DUCT RISERS SHALL BE INSTALLED IN CENTRAL SHAFT AND EXISTING DUCT RISERS SHALL REMAIN TO SERVE FLOORS TWO THROUGH SEVEN.
5. REPLACE EXISTING SUPPLY AIR DUCTS IN GROUND FLOOR MECHANICAL ROOM FROM AHU'S TO NEW VERTICAL SUPPLY AIR DUCT.
6. SEE DETAIL SHEET M-503 FOR ADDITIONAL INFORMATION PERTAINING TO WORK ON THE AIR HANDLING UNITS.
7. IN LIEU OF REPLACING THE SUPPLY AIR DUCT MAINS AS SHOWN, THE CONTRACTOR MAY ELECT TO FULLY STRIP THE INTERNAL INSULATION FROM THE EXISTING DUCTS, REMOVE THE WELD PINS AND RE-INSULATE WITH EXTERNAL DUCT INSULATION. ALL INSULATION SHALL BE REMOVED FROM INSIDE THE DUCTS AND DUCTS VACUUMED TO REMOVE THE FIBER PARTICLES TO THE SATISFACTION OF THE OWNER AND ARCHITECT/ENGINEER. IF CONTRACTOR ACCEPTS THIS APPROACH THEY WILL ALSO BE REQUIRED TO INSTALL ACCESS DOORS OR OPENINGS AS REQUIRED TO ACCESS DUCT INTERIOR AND RESEAL THE DUCT OPENINGS PRIOR TO RETURNING SYSTEMS TO OPERATION.

MECHANICAL KEYNOTES

1. INSTALL NEW SMOKE DAMPER, ACTUATOR AND CONTROLS IN EXISTING AHU HOUSING. APPROXIMATE SIZE OF SMOKE DAMPER IS 192 INCH X 48 INCH. FIEILD VERIFY ACTUAL SIZE.

PROJECT NORTH
TRUE NORTH

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-25	ADDENDUM #4

Project Number 10062179
Original Issue 02/26/18 -

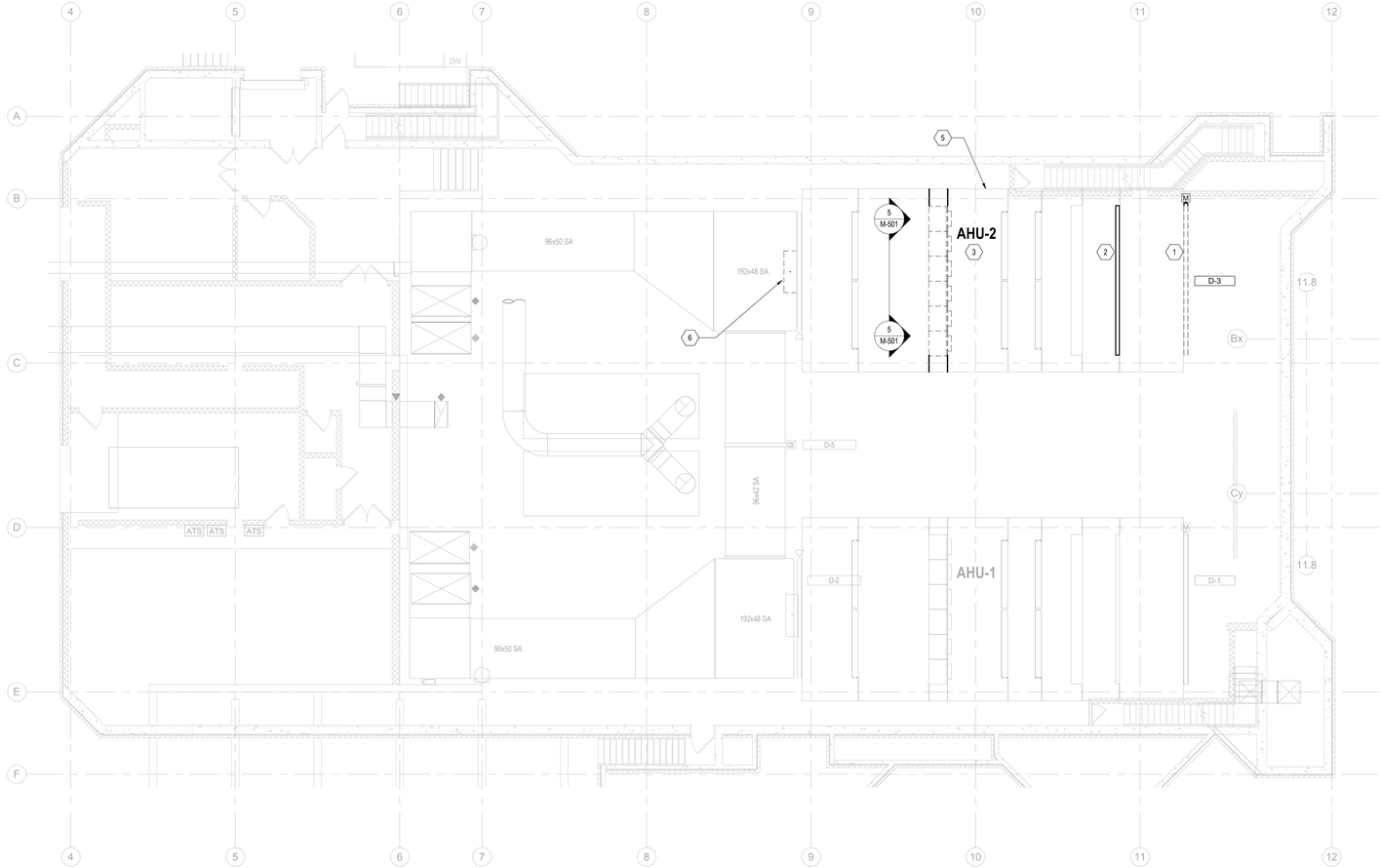
ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name
GROUND FLOOR HVAC PLAN - PHASE 3

Sheet Number
MH-101-3

Project Status

4/25/2018 7:21:50 PM
C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt



1 GROUND FLOOR HVAC PLAN - PHASE 4

1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. CENTRAL HVAC SYSTEM SHUT DOWNS SHALL OCCUR BETWEEN FRIDAY AT 5:00 PM UNTIL MONDAY AT 5:00 AM AND SHALL BE SCHEDULED TWO WEEKS IN ADVANCE WITH THE UNIVERSITY. NIGHT AND WEEKEND WORK WILL BE REQUIRED IN ORDER TO ACCOMPLISH THIS.
4. NEW SUPPLY AIR DUCT RISERS SHALL BE INSTALLED IN CENTRAL SHAFT AND EXISTING DUCT RISERS SHALL REMAIN TO SERVE FLOORS TWO THROUGH SEVEN.
5. REPLACE EXISTING SUPPLY AIR DUCTS IN GROUND FLOOR MECHANICAL ROOM FROM AHUS TO NEW VERTICAL SUPPLY AIR DUCT.
6. SEE DETAIL SHEET M-503 FOR ADDITIONAL INFORMATION PERTAINING TO WORK ON THE AIR HANDLING UNITS.

MECHANICAL KEYNOTES

1. INSTALL NEW INTAKE DAMPER, ACTUATORS AND CONTROLS IN EXISTING AHU HOUSING. APPROXIMATE SIZE OF INTAKE DAMPER IS 20 FT X 10 FT. FIELD VERIFY ACTUAL SIZE.
2. INSTALL NEW PRE-FILTER RACK IN EXISTING AHU HOUSING. INSTALL NEW MERV 8 PRE-FILTERS
3. INSTALL NEW FAN WALL IN EXISTING AHU HOUSING. FAN WALL SHALL BE 6 FANS WIDE X 4 FANS HIGH.
4. NOT USED.
5. PROVIDE NEW MARINE LIGHT FIXTURES INCLUDING LIGHT BULBS IN EACH SECTION OF EXISTING AHUS.
6. INSTALL NEW REMOTE MOUNTED FAN WALL OPTIMIZATION PACKAGE CONTROL PANEL

PROJECT NORTH / TRUE NORTH

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 02/26/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER 3-28-18

Sheet Name

GROUND FLOOR HVAC PLAN - PHASE 4

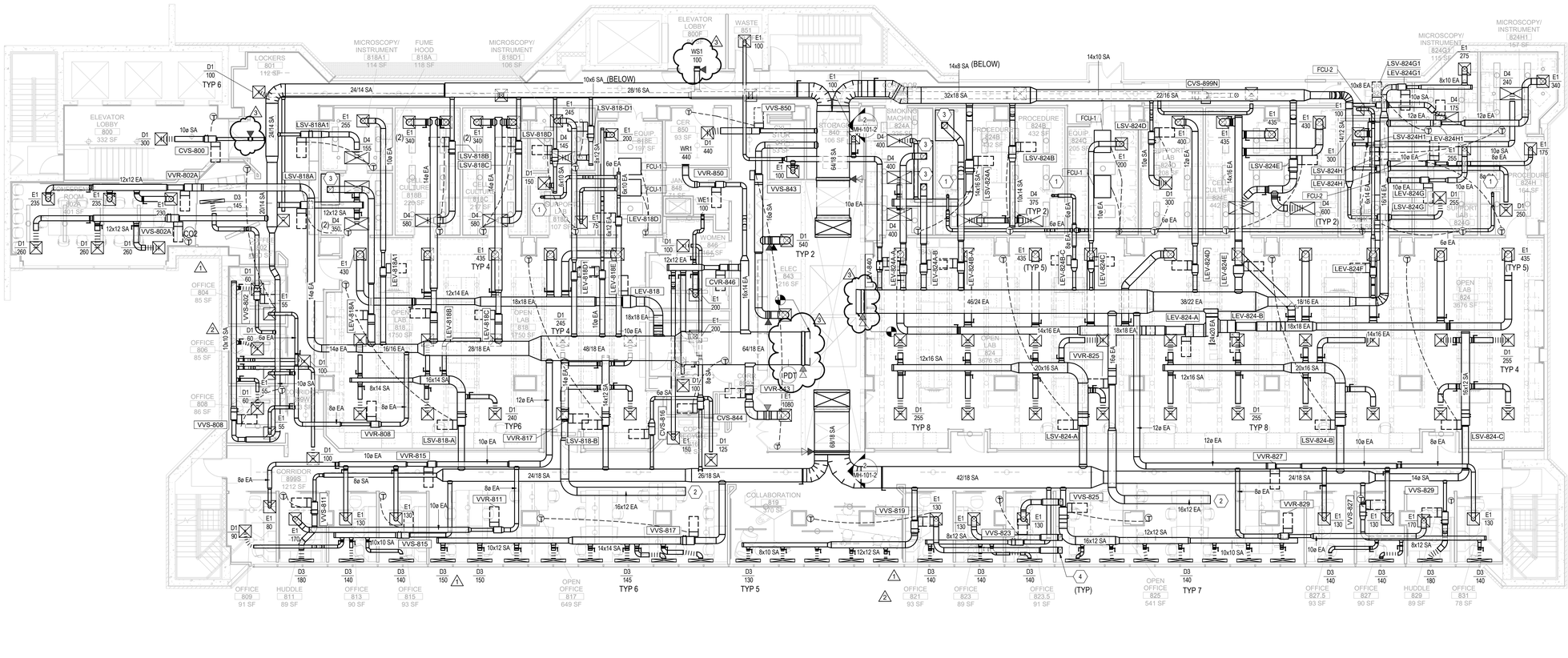
Sheet Number

MH-101-4

Project Status

3/28/2018 2:40:01 PM

C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt



1 8TH FLOOR HVAC PLAN
1/8" = 1'-0"

GENERAL NOTES:

⚠2
1. ALL BRANCH RUNOUTS TO EQUIPMENT OR DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSER OR EQUIPMENT CONNECTION UNLESS NOTED OTHERWISE.
2. MAXIMUM FLEXIBLE DUCTWORK LENGTH SHALL BE 3 FEET.
3. VVR-817 AND VVR-825 SHALL BE CONTROLLED OFF DIFFERENTIAL PRESSURE. SEE OFFICE AREA ROOM PRESSURE CONTROL SCHEMATIC, DETAIL 3, SHEET M-805 FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1. CONNECT DUCT TO SNORKEL EXHAUST. TRANSITION DUCT AT DEVICE FROM DUCT SIZE SHOWN TO SNORKEL EXHAUST CONNECTION SIZE. DUCTWORK MATERIAL SHALL BE FULLY WELDED TYPE 316 STAINLESS STEEL FROM CONNECTION TO SNORKEL BACK TO THE EXHAUST DUCT MAIN. BALANCE FOR 75 CFM.
2. PROVIDE 1/2"X1/2" WIRE MESH OVER OPEN END OF EXHAUST AIR DUCT. SECURELY FASTEN TO END OF DUCT. WIRE MESH SHALL SHALL BE SAME MATERIAL AS THE DUCTWORK IN WHICH IT IS INSTALLED.
3. 12" DIAMETER DUCT DOWN TO FUME HOOD. PROVIDE TRANSITIONS AS REQUIRED TO CONNECT TO FUME HOOD. SECURE DUCT TO FUME HOOD WITH STAINLESS STEEL SHEET METAL SCREWS MASTIC. DUCTWORK MATERIAL SHALL BE FULLY WELDED TYPE 316 STAINLESS STEEL FROM FUME HOOD TO EXHAUST AIR MAIN. BALANCE FOR ⚠2 700 CFM.
4. PROVIDE TRANSFER DUCTS FROM CLOSED OFFICE TO OPEN OFFICE AS SHOWN. TRANSITION DUCT FROM 10 INCH GRILLE NECK SIZE TO 12X8 DUCT AND TURN DUCT UP 12" AFTER PENETRATING OPEN OFFICE WALL. (TYP)

PROJECT NORTH / TRUE NORTH

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2
3	2018-04-20	ADDENDUM #3

Project Number 10062179
Original Issue 05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER CHRISTOPHER ZAVATKAY 3-28-18

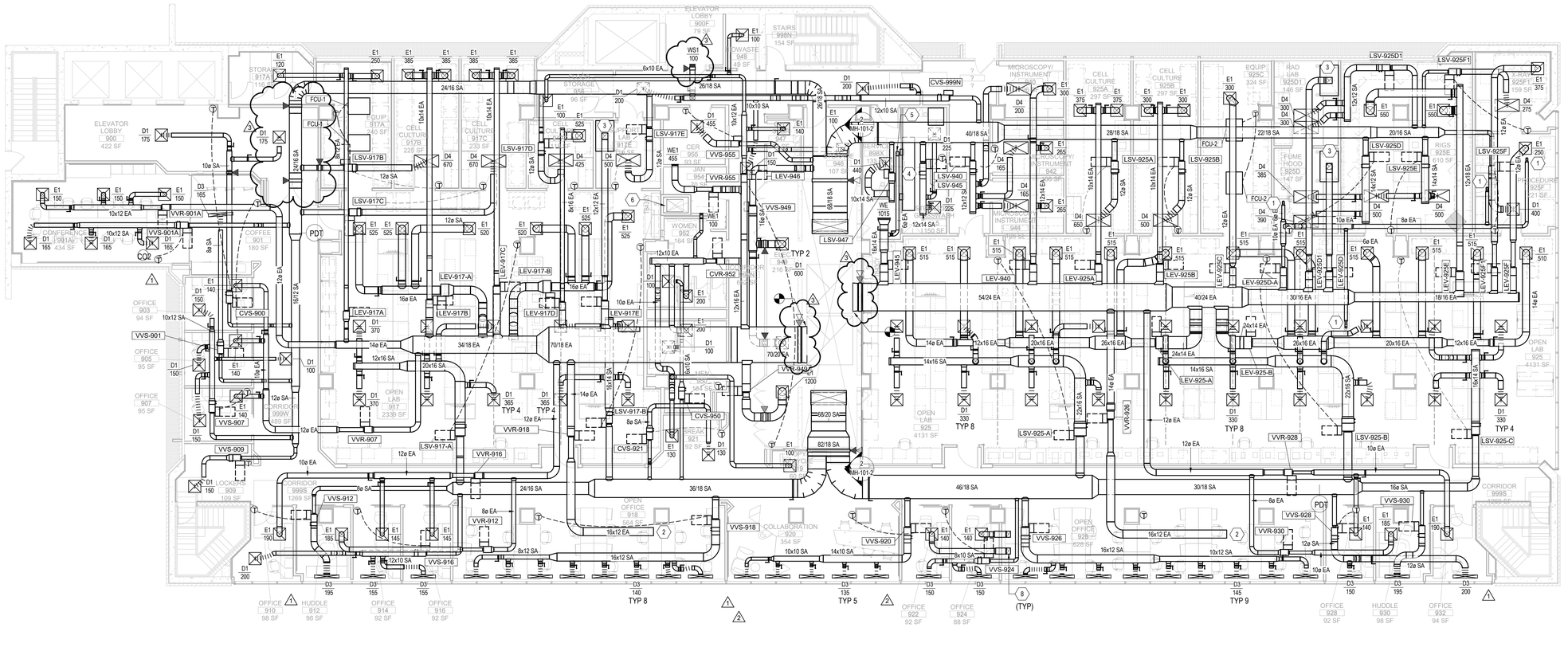
Sheet Name
8TH FLOOR HVAC PLAN - PHASES 1 THRU 4

Sheet Number
MH-108

Project Status

4/19/2018 4:09:46 PM

C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt



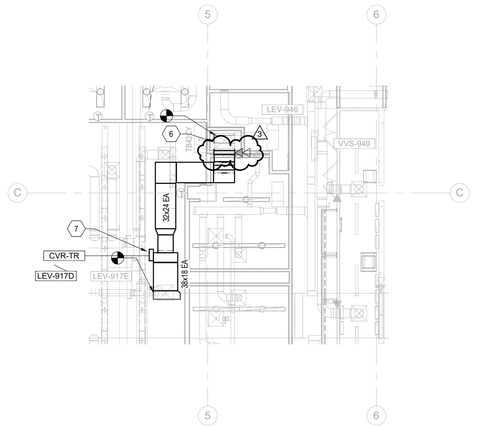
1 9TH FLOOR HVAC PLAN
1/8" = 1'-0"

GENERAL NOTES:

2
1. ALL BRANCH RUNOUTS TO EQUIPMENT OR DIFFUSERS SHALL BE THE SAME SIZE AS THE DIFFUSER OR EQUIPMENT CONNECTION UNLESS NOTED OTHERWISE.
2. MAXIMUM FLEXIBLE DUCTWORK LENGTH SHALL BE 3 FEET.
3. VVR-918 AND VVR-926 SHALL BE CONTROLLED OFF DIFFERENTIAL PRESSURE. SEE OFFICE AREA ROOM PRESSURE CONTROL SCHEMATIC, DETAIL 3, SHEET M-805 FOR ADDITIONAL INFORMATION.

KEYED NOTES:

1. CONNECT DUCT TO SNORKEL EXHAUST. TRANSITION DUCT AT DEVICE FROM DUCT SIZE SHOWN TO SNORKEL EXHAUST CONNECTION SIZE. DUCTWORK MATERIAL SHALL BE FULLY WELDED TYPE 316 STAINLESS STEEL FROM CONNECTION TO SNORKEL BACK TO THE EXHAUST DUCT MAIN. BALANCE FOR 75 CFM.
2. PROVIDE 1/2"X1/2" WIRE MESH OVER OPEN END OF EXHAUST AIR DUCT. SECURELY FASTEN TO END OF DUCT. WIRE MESH SHALL SHALL BE SAME MATERIAL AS THE DUCTWORK IN WHICH IT IS INSTALLED.
3. 12" DIAMETER DUCT DOWN TO FUME HOOD. PROVIDE TRANSITIONS AS REQUIRED TO CONNECT TO FUME HOOD. SECURE DUCT TO FUME HOOD WITH STAINLESS STEEL SHEET METAL SCREWS MASTIC. DUCTWORK MATERIAL SHALL BE FULLY WELDED TYPE 316 STAINLESS STEEL FROM FUME HOOD TO EXHAUST AIR MAIN. BALANCE FOR 700 CFM.
4. CANOPY HOOD OVER STERILIZER AND GLASS WASHER. PROVIDE TWO 12"x8" TRANSER DUCTS FROM CANOPY HOOD INTO SERVICE AREA. CENTER TRANSFER DUCTS OVER EQUIPMENT. CANOPY HOOD AND TRANFER DUCTS SHALL BE CONSTRUCTED FROM TYPE 304 STAINLESS STEEL WITH NUMBER 4 FINISH. ALL JOINTS AND SEAMS SHALL BE FULLY WELED.
5. 6" DUCT TO GLASS WASHER. TRANSITION DUCT AS REQUIRED FOR CONNECTION TO EQUIPMENT. BALANCE FOR 75 CFM. VERIFY THIS VENT DUCT REQUIREMENT WITH ACTUAL EQUIPMENT PROVIDED.
6. CONNECT TO EXISTING 32"X24" RISER.
7. SET AIR TERMINAL UNIT TO PREDEMOLITION TEST AND BALANCE FLOW RATE OF EXHAUST RISER.
2
8. PROVIDE TRANSFER DUCTS FROM CLOSED OFFICES TO OPEN OFFICE AS SHOWN. TRANSITION DUCT FROM 10 INCH GRILLE NECK SIZE TO 12X8 DUCT AND TURN DUCT UP 12" AFTER PENETRATING OPEN OFFICE WALL. (TYP)



2 9TH FLOOR HVAC PLAN - PHASE 4
1/8" = 1'-0"

PROJECT NORTH
TRUE NORTH

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2
3	2018-04-20	ADDENDUM #3

Project Number 10062179
Original Issue 05/18/16 -

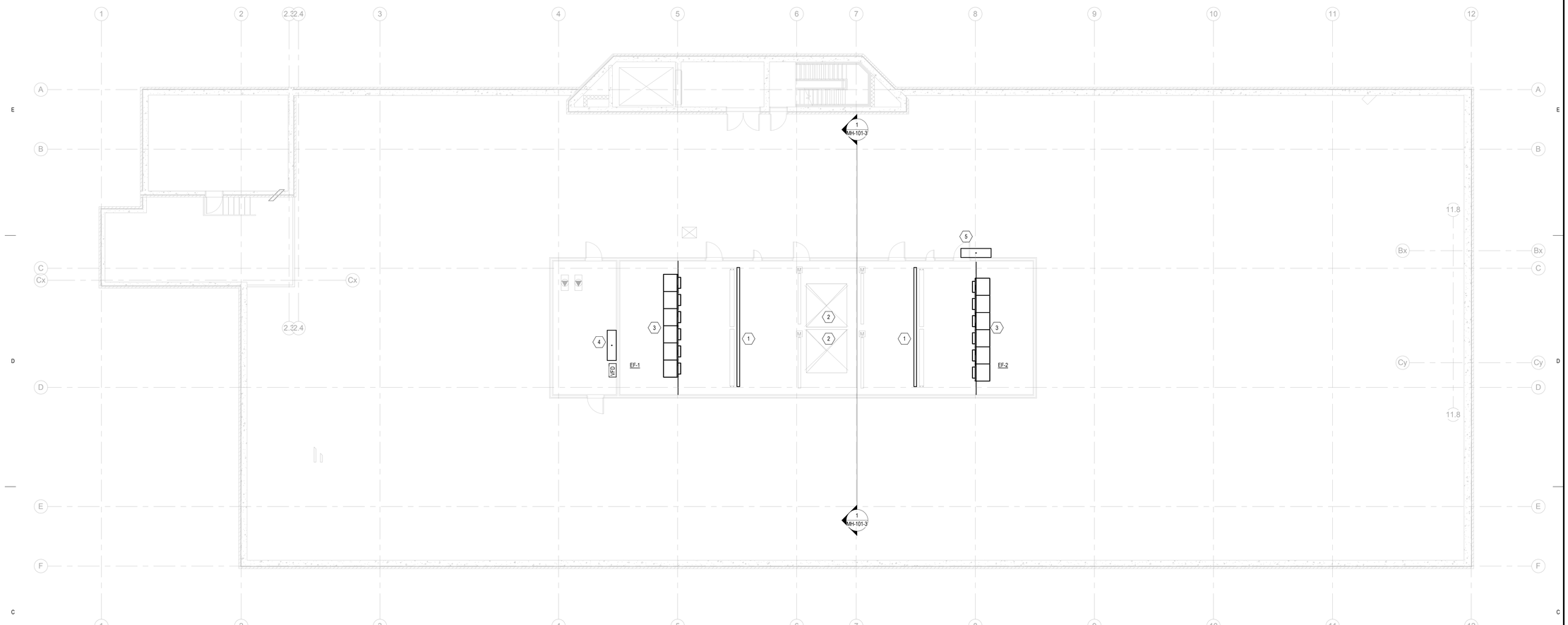
ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM ZAVATKAY
3-28-18

Sheet Name
9TH FLOOR HVAC PLAN - PHASES 1 THRU 4

Sheet Number
MH-109

Project Status

4/19/2018 4:06:06 PM
C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt



1 ROOF HVAC PLAN
1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. WORK ON AND INSIDE EXISTING EXHAUST AIR UNITS SHALL BE COMPLETED ONE AT A TIME TO ALLOW ONE EXHAUST FAN UNIT TO CONTINUE TO OPERATE.
4. WORK ON EXHAUST FANS AND EXHAUST FAN HOUSINGS SHALL OCCURE IN PHASE PRIOR TO BRINGING ON 8TH AND 9TH FLOOR AIR SYSTEMS.
5. PROVIDE NEW MARINE LIGHT FIXTURES IN EACH SECTION OF EXHAUST FAN PENTHOUSE.
6. SEE DETAIL SHEET M-503 FOR ADDITIONAL INFORMATION PERTAINING TO WORK ON THE EXHAUST FAN UNITS.

MECHANICAL KEYNOTES

1. INSTALL NEW FILTER RACK WITH MERV 8 FILTERS IN EXISTING EXHAUST HOUSING.
2. REPLACE MISSING/DAMAGED WIRE MESH AT TOP OF EXHAUST DUCTS IN PLENUM WITH 1/2" X 1/2" WIRE MESH. APPROXIMATE DUCT SIZES ARE 96 INCH X 90 INCH. FIELD VERIFY ACTUAL DUCT DIMENSIONS. WIRE MESH SCREEN SHALL BE WELED AND CONSTRUCTED FROM STEEL AND BE GALVANIZED OR ZINC PLATED MINIMUM 19 GAUGE WIRE AND SHALL BE SECURELY FASTENED TO THE EXISTING DUCTS PER MANUFACTURERS RECOMMENDATIONS.
3. INSTALL NEW FAN ARRAY IN EXHAUST FAN PENTHOUSE. INSTALL ON ONE SIDE OF EXHAUST FAN PENTHOUSE TO ALLOW FAN ON OTHER SIDE TO REMAIN OPERATIONAL.
4. EF-1 REMOTE MOUNTED CONTROL PANEL. CONTROL PANEL SHALL BE NEMA 3R OUTDOOR RATED.
5. EF-2 REMOTE MOUNTED CONTROL PANEL. CONTROL PANEL SHALL BE NEMA 3R OUTDOOR RATED.

PROJECT NORTH / TRUE NORTH

3/28/2018 2:40:36 PM

C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

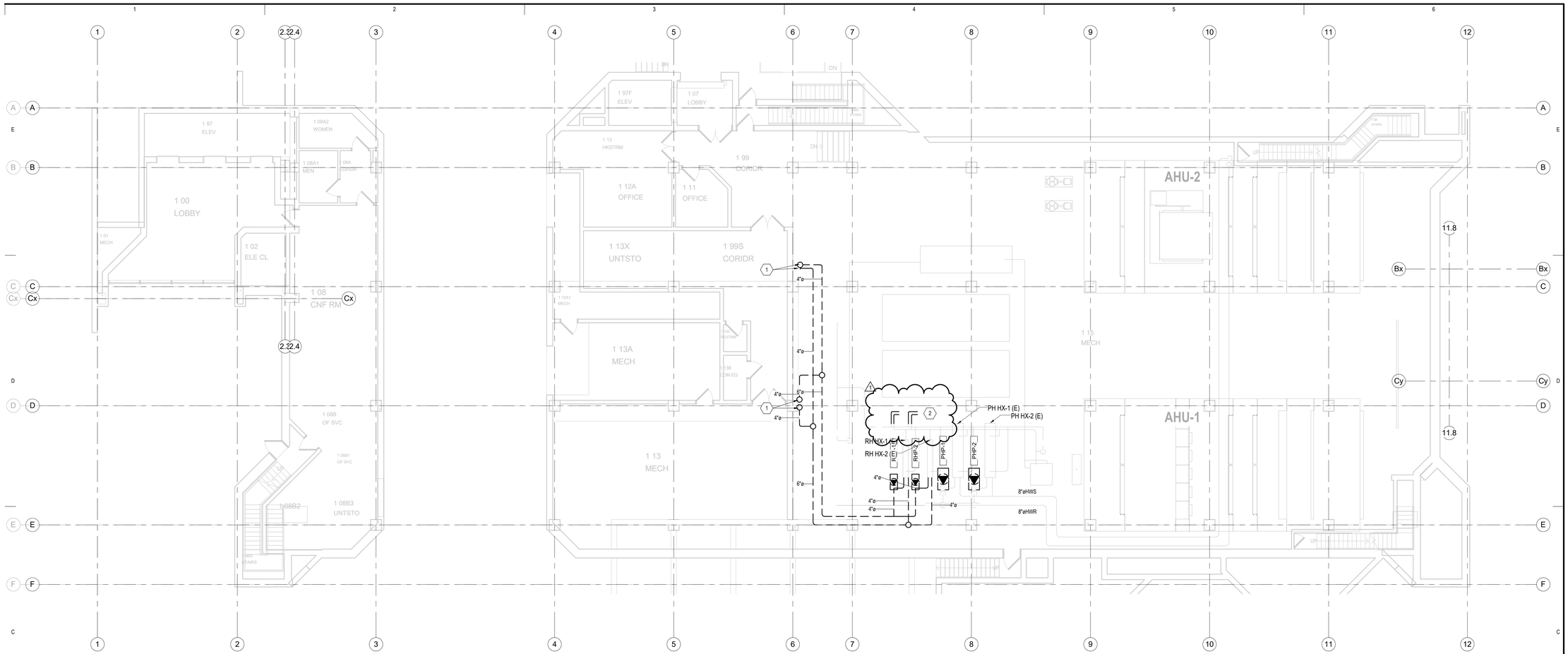
Project Number 10062179
Original Issue 05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name
ROOF HVAC PLAN

Sheet Number
MH-111

Project Status



1 GROUND FLOOR DEMOLITION MECHANICAL PIPING PLAN

1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. PIPING AND PUMP DEMOLITION CAN OCCUR DURING ANY PHASE OF THE PROJECT, BUT WORK SHOULD BE COORDINATED TO MINIMIZE LABORATORY SHUTDOWNS AND DOWNTIME. REINSTALLATION OF SYSTEMS SHOULD OCCUR IMMEDIATELY AFTER DEMOLITION.
4. REPLACE REHEAT AND PREHEAT PUMPS ONE AT A TIME TO MINIMIZE OUTAGE TO THE SYTEMS.
5. REPLACEMENT OF REHEAT PIPING, REHEAT PUMPS, PREHEAT PUMPS SHALL OCCUR DURING PHASE 2 OR PHASE 3.
6. REPLACEMENT OF REHEAT PIPING, REHEAT PUMPS, PREHEAT PUMPS SHALL OCCUR DURING SUMMER MONTHS WHEN PREHEAT IS NOT REQUIRED AND REHEAT IS EITHER NOT REQUIRED OR MINIMAL LOAD.

MECHANICAL KEYNOTES

1. EXISTING REHEAT HOT WATER RISERS SHALL REMAIN. NEW REHEAT HOT WATER PIPING SHALL BE CONNECTED TO EXISTING AT BASE OF RISERS. SEE SHEET MP-101 FOR NEW WORK.
2. REMOVE STEAM AND STEAM CONDENSATE PIPING TO EXISTING WATER HEATERS AS SHOWN. CAP AND INSULATE PIPING WHERE WATER HEATER STEAM AND STEAM CONDENSATE PIPING REMOVED.

PROJECT NORTH / TRUE NORTH

4/26/2018 4:21:37 PM

C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-25	ADDENDUM #4

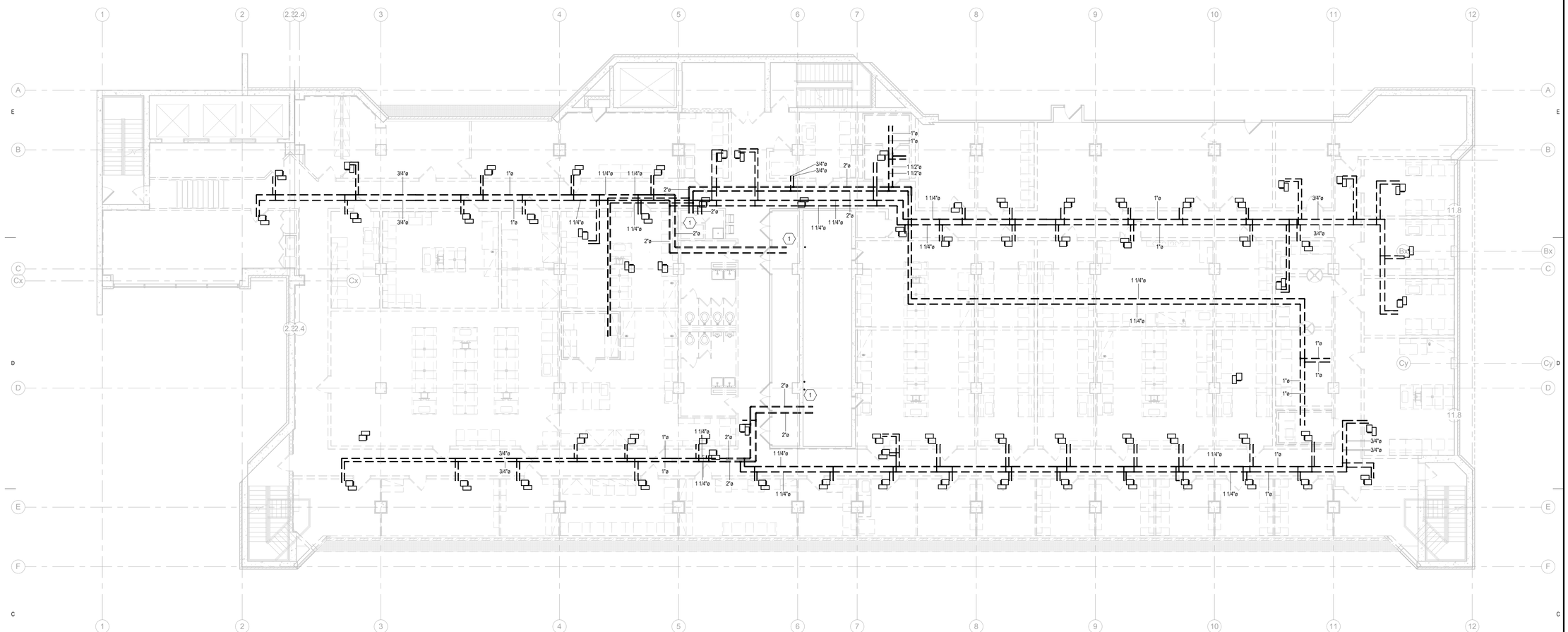
Project Number 10062179
Original Issue 05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM ZAVATKAY
3-28-18

Sheet Name
GROUND FLOOR DEMOLITION MECHANICAL PIPING PLAN

Sheet Number
MPD-101

Project Status



1 8TH FLOOR DEMOLITION MECHANICAL PIPING PLAN

1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQURIED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. WORK ON THE 8TH AND 9TH FLOORS CAN OCCUR THROUGHOUT ALL PHASES OF THE PROJECT.

MECHANICAL KEYNOTES

1. VALVE AND CAP EXISTING PIPING AT RISER TO ISOLATE FLOOR AND MINIMIZE SYSTEM DOWNTIME PRIOR TO DEMOLITION OF PIPING ON FLOOR.

PROJECT NORTH
TRUE NORTH

3/28/2018 2:41:44 PM

C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

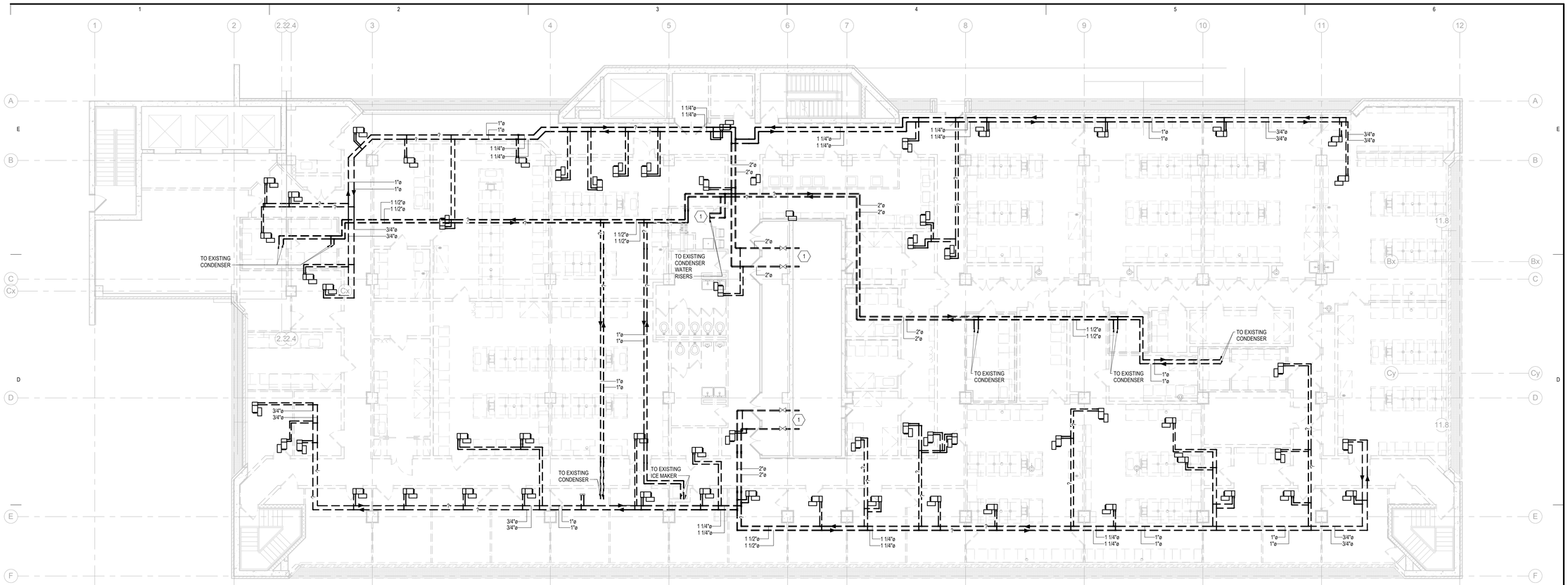
Sheet Name

8TH FLOOR DEMOLITION MECHANICAL PIPING PLAN

Sheet Number

MPD-108

Project Status



1 9TH FLOOR DEMOLITION MECHANICAL PIPING PLAN
1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQURIED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. WORK ON THE 8TH AND 9TH FLOORS CAN OCCUR THROUGHOUT ALL PHASES OF THE PROJECT.

MECHANICAL KEYNOTES

1. VALVE AND CAP EXISTING PIPING AT RISER TO ISOLATE FLOOR AND MINIMIZE SYSTEM DOWNTIME PRIOR TO DEMOLITION OF PIPING ON FLOOR.

PROJECT NORTH
TRUE NORTH

3/28/2018 2:41:59 PM

C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

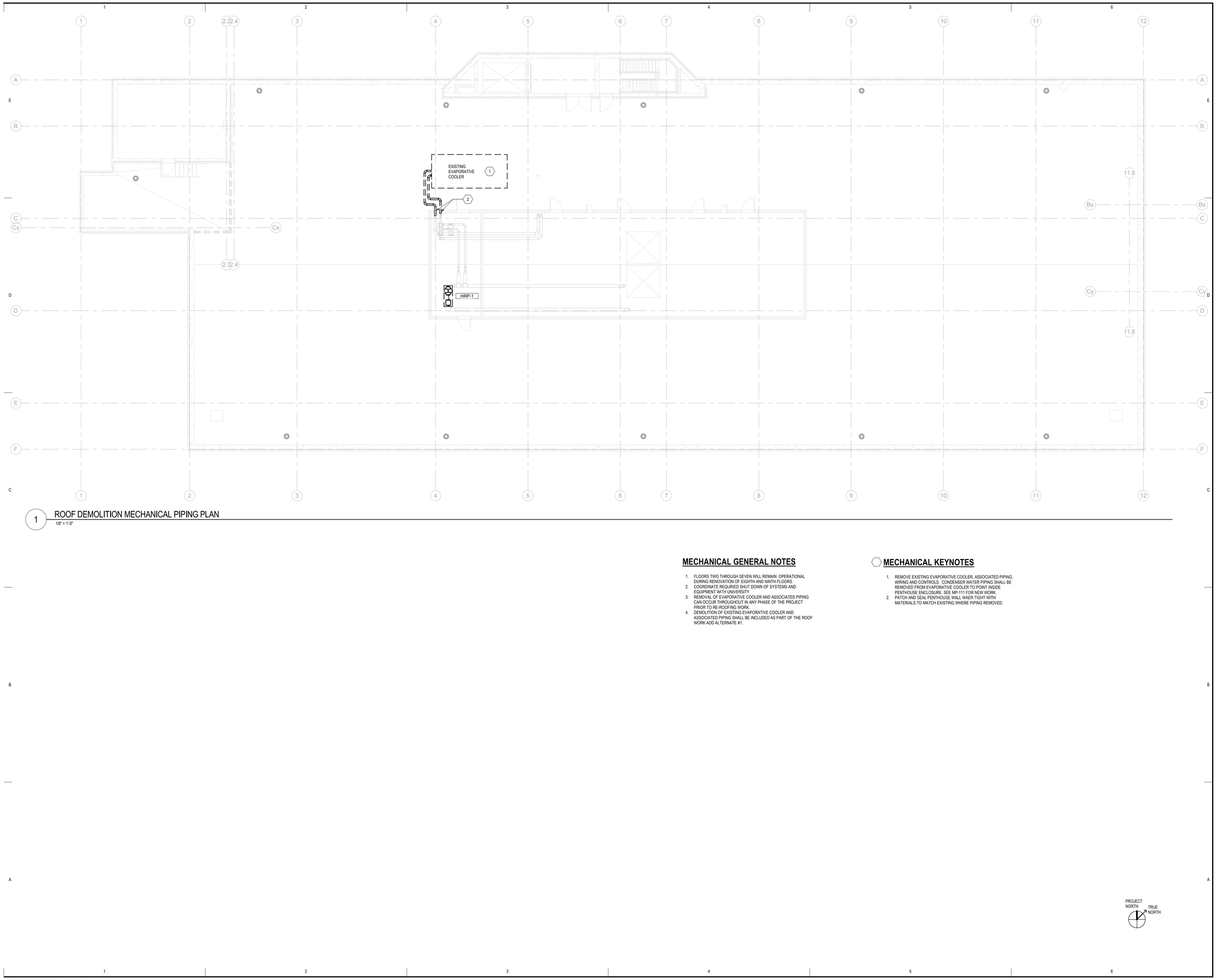
Project Number 10062179
Original Issue 05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name
9TH FLOOR DEMOLITION MECHANICAL PIPING PLAN

Sheet Number
MPD-109

Project Status



1 ROOF DEMOLITION MECHANICAL PIPING PLAN
1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. REMOVAL OF EVAPORATIVE COOLER AND ASSOCIATED PIPING CAN OCCUR THROUGHOUT IN ANY PHASE OF THE PROJECT PRIOR TO RE-ROOFING WORK.
4. DEMOLITION OF EXISTING EVAPORATIVE COOLER AND ASSOCIATED PIPING SHALL BE INCLUDED AS PART OF THE ROOF WORK ADD ALTERNATE #1.

MECHANICAL KEYNOTES

1. REMOVE EXISTING EVAPORATIVE COOLER, ASSOCIATED PIPING, WIRING AND CONTROLS. CONDENSER WATER PIPING SHALL BE REMOVED FROM EVAPORATIVE COOLER TO POINT INSIDE PENTHOUSE ENCLOSURE. SEE MP-111 FOR NEW WORK.
2. PATCH AND SEAL PENTHOUSE WALL WAER TIGHT WITH MATERIALS TO MATCH EXISTING WHERE PIPING REMOVED.

PROJECT NORTH / TRUE NORTH

3/28/2018 2:42:03 PM

C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

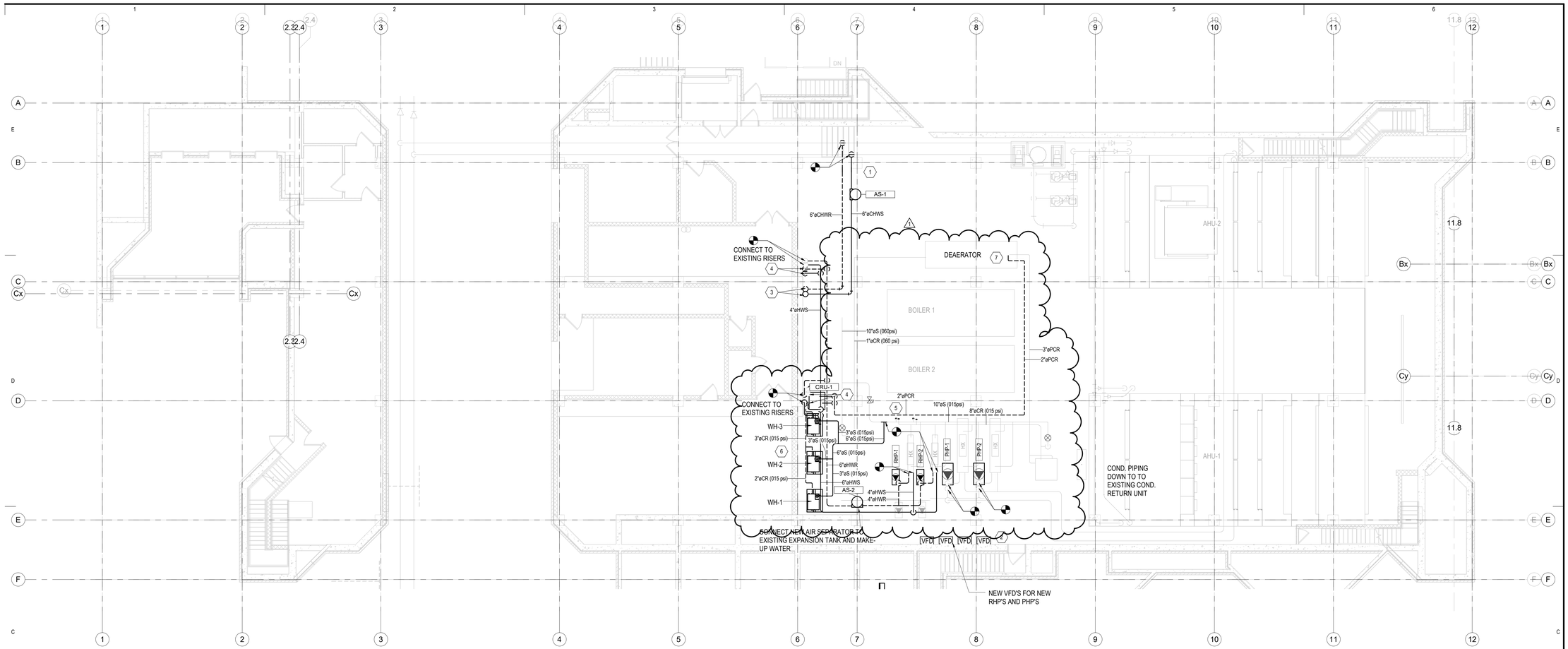
Sheet Name

ROOF DEMOLITION MECHANICAL PIPING PLAN

Sheet Number

MPD-111

Project Status



1 GROUND FLOOR MECHANICAL PIPING PLAN

1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. INSTALL NEW REHEAT HOT WATER PIPING ON THIS FLOOR AS SHOWN AND CONNECT TO BOTH EXISTING HEATING HOT WATER RISERS AS WELL AS NEW HEATING HOT WATER RISERS.
4. REPLACE REHEAT AND PREHEAT PUMPS ONE AT A TIME TO MINIMIZE OUTAGE TO THE SYTEMS.
5. NEW PREHEAT HOT WATER PUMPS SHALL CONNECT TO EXISTING PREHEAT PIPING SYSTEM.
6. REPLACEMENT OF REHEAT PIPING, REHEAT PUMPS, PREHEAT PUMPS SHALL OCCUR DURING PHASE 2 OR PHASE 3.
7. REPLACEMENT OF REHEAT PIPING, REHEAT PUMPS, PREHEAT PUMPS SHALL OCCUR DURING SUMMER MONTHS WHEN PREHEAT IS NOT REQUIRED AND REHEAT IS EITHER NOT REQUIRED OR MINIMAL LOAD.
8. SEE PIPING DETAILS ON SHEET M-502 FOR ADDITIONAL CONNECT DETAILS INCLUDING VALVES, FITTINGS PIPE SPECIALTIES, ETC .
9. SEE SHEETS M-601 AND M-602 FOR NEW CHILLED WATER AND HEATING HOT WATER PIPE SIZES IN CENTRAL SHAFT.

MECHANICAL KEYNOTES

1. PROVIDE NEW ISOALTION VALVES AT TAP TO CHILLED WATER MAINS IN ACCESSIBLE LOCATION.
2. INSTALL NEW VFD'S FOR NEW REHEAT AND PREHEAT PUMPS IN GENERAL AREA SHOWN WHERE SPACE PERMITS.
3. NEW CHILLED WATER PIPE RISERS SHALL BE INSTALLED AND EXTEND UP TO THE 9TH FLOOR. SEE SHEET M-602 FOR PIPE SIZES.
4. NEW HEATING HOT WATER RISERS SHALL BE INSTALLED AND EXTEND UP TO THE 9TH FLOOR. SEE SHEET M-601 FOR PIPE SIZES.
5. CAP EXISTING STEAM AND STEAM CONDENSATE LINES AFTER EXISTING WATER HEATERS (PLUMBING DEMO SHEET) AND ASSOCIATED STEAM PIPING IS REMOVED. INSULATE STEAM AND STEAM CONDENSATE PIPE WHERE NEW CAPS INSTALLED.
6. CONNECT NEW WATER HEATERS, WH-1, WH-2 AND WH-3 TO STEAM AND STEAM CONDENSATE PIPING. VERIFY EXISTING LOW PRESSURE STEAM PRESSURE REGULATOR IS SET TO 10 PSI. INSTALL STEAM AND STEAM CONDENSATE PIPING TO WATER HEATERS PER MANUFACTURER'S RECOMENDATIONS. PROVIDE TRAP AND CHECK VALVE ON CONDENSATE DISCHARGE LINE FROM EACH UNIT. CONDENSATE LINE SHALL BE SLOPED TO CONDENSATE RETURN UNIT, CRU-1, CONDENSATE SHALL NOT BE LIFTED. TRANSITION PIPE AS REQUIRED FOR CONNECTION SIZES FOR SELECTED EQUIPMENT.
7. ROUTE NEW 2" PUMPED CONDENSATE TO EXISTING DEAERATOR.

PROJECT NORTH / TRUE NORTH

4/26/2018 4:21:35 PM

C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-25	ADDENDUM #4

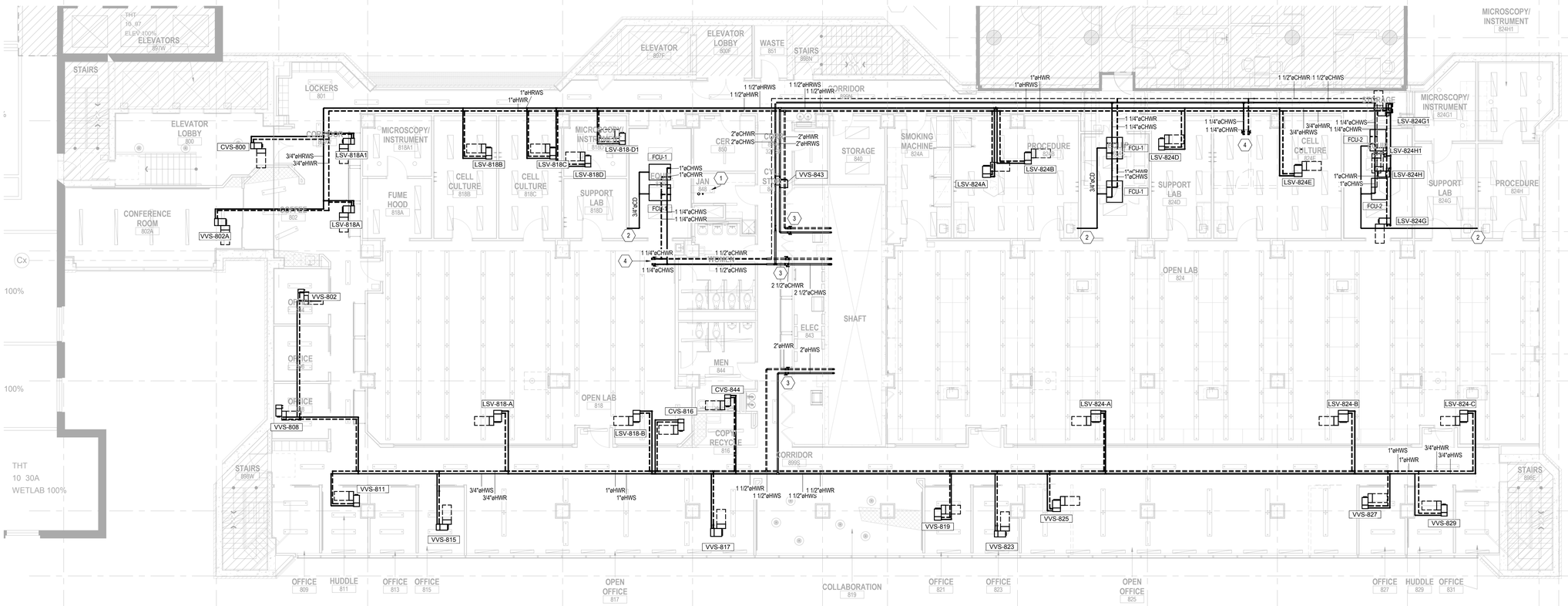
Project Number 10062179
Original Issue 05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name
GROUND FLOOR MECHANICAL PIPING PLAN

Sheet Number
MP-101

Project Status



1 8TH FLOOR MECHANICAL PIPING PLAN

1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQURIED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. PROVIDE NEW REHEAT HOT WATER PIPING ON THIS FLOOR TO ALL AIR TERMINAL UNIT AND LAB SUPPLY AIR VALVE REHEAT COILS.
4. SEE DETAIL 2 ON SHEET M-502 FOR AIR TERMINAL UNIT AND LAB SUPPLY VALVE REHEAT COIL PIPING CONNECTIONS.
5. SEE SHEETS M-601 AND M-602 FOR NEW CHILLED WATER AND HEATING HOT WATER PIPE SIZES IN CENTRAL SHAFT.

MECHANICAL KEYNOTES

1. PROVIDE SHUTOFF VALVE AND CAP AT CONDENSER WATER MAIN WHERE FLOOR BRANCH PIPING DEMOLISHED.
2. PROVIDE 3/4" CONDENSATE DRAIN FROM EACH FAN COIL UNIT DOWN INSIDE WALL TO SINK TAILPIECE. SEE DETAIL 8, SHEET M-502. FOR SINK TAILPIECE TIE-IN DETAIL. SLOPE PIPING FROM FAN COIL UNIT TOWARD SINK.
3. PROVIDE FLOOR ISOLATION VALVES FOR NEW PIPING.
4. VALVE AND CAP FUTURE CHILLED WATER LINE TAP ABOVE CEILING.

PROJECT NORTH / TRUE NORTH

3/28/2018 2:41:20 PM

C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

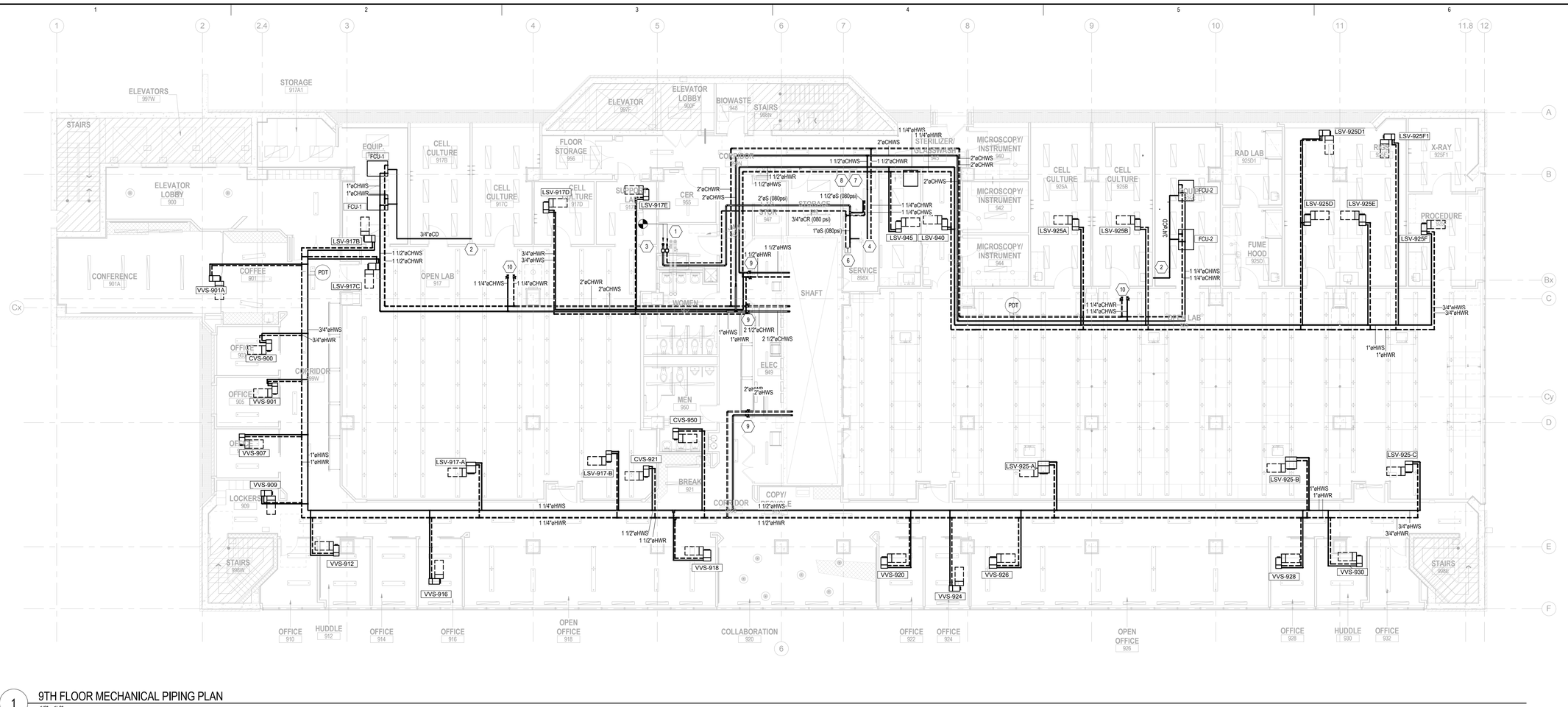
Project Number 10062179
Original Issue 05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name
8TH FLOOR MECHANICAL PIPING PLAN

Sheet Number
MP-108

Project Status



1 9TH FLOOR MECHANICAL PIPING PLAN

1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH UNIVERSITY.
3. PROVIDE NEW REHEAT HOT WATER PIPING ON THIS FLOOR TO ALL AIR TERMINAL UNIT AND LAB SUPPLY VALVE REHEAT COILS.
4. SEE DETAIL 2 ON SHEET M-502 FOR AIR TERMINAL UNIT AND LAB SUPPLY VALVE REHEAT COIL PIPING CONNECTIONS.
5. SEE SHEETS M-601 AND M-602 FOR NEW CHILLED WATER AND HEATING HOT WATER PIPE SIZES IN CENTRAL SHAFT.

MECHANICAL KEYNOTES

1. PROVIDE SHUTOFF VALVE AND CAP AT CONDENSER WATER MAIN WHERE FLOOR BRANCH PIPING DEMOLISHED.
2. PROVIDE 3/4" CONDENSATE DRAIN FROM EACH FAN COIL UNIT DOWN INSIDE WALL TO SINK TAILPIECE. SEE DETAIL 8, SHEET M-502, FOR SINK TAILPIECE TIE-IN DETAIL. SLOPE PIPING FROM FAN COIL UNIT TOWARD SINK.
3. CONNECT NEW STEAM AND STEAM CONDENSATE PIPING TO EXISTING RISERS. PROVIDE NEW ISOLATION VALVES AT TAP NEAR RISERS.
4. 1 1/4" CHWS+R DOWN TO AUTOCLAVE EFFLUENT COOLER. BALANCE FOR 10 GPM. COORDINATE FLOWRATE REQUIRED WITH ACTUAL MANUFACTURER SELECTED. PROVIDE TRANSITIONS AS REQUIRED. PROVIDE SHUT-OFF VALVES AT EQUIPMENT.
5. NOT USED.
6. 3/4" S(080) DOWN TO AUTOCLAVE. BALANCE FOR 180 LB/HR. COORDINATE FLOWRATE REQUIRED WITH ACTUAL MANUFACTURER SELECTED. PROVIDE SHUT-OFF VALVE AND UNION AT EQUIPMENT CONNECTION.
7. 1 1/2" S(080) DOWN TO GLASSWASHER BALANCE FOR 264 LB/HR. COORDINATE FLOWRATE WITH ACTUAL MANUFACTURER SELECTED. PROVIDE SHUT-OFF VALVE AND UNION AT EQUIPMENT. TRANSITION PIPE AS REQUIRED TO CONNECT TO EQUIPMENT.
8. 3/4" CR(080) DOWN TO GLASSWASHER. PROVIDE SHUT-OFF VALVE AND UNION AT EQUIPMENT. TRANSITION PIPE AS REQUIRED.
9. PROVIDE NEW FLOOR ISOLATION VALVES ON NEW PIPING SYSTEMS.
10. VALVE AND CAP FUTURE CHILLED WATER LINE TAP ABOVE CEILING.

PROJECT NORTH / TRUE NORTH

3/28/2018 2:41:35 PM

C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM CHARLES ZANOTTI 3-28-18

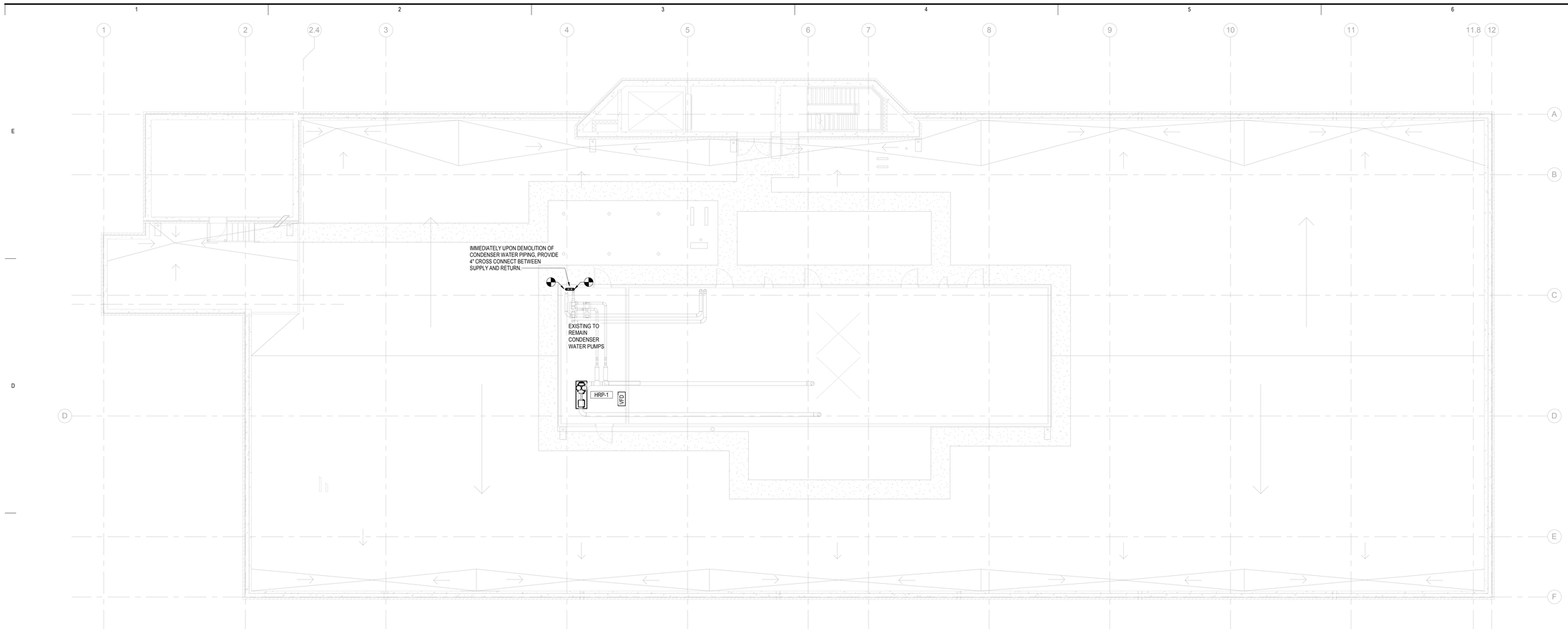
Sheet Name

9TH FLOOR MECHANICAL PIPING PLAN

Sheet Number

MP-109

Project Status



1 ROOF MECHANICAL PIPING PLAN

1/8" = 1'-0"

MECHANICAL GENERAL NOTES

1. FLOORS TWO THROUGH SEVEN WILL REMAIN OPERATIONAL DURING RENOVATION OF EIGHTH AND NINTH FLOORS.
2. COORDINATE REQUIRED SHUT DOWN OF SYSTEMS AND EQUIPMENT WITH THE UNIVERSITY.

PROJECT NORTH / TRUE NORTH

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER 3-28-18

Sheet Name

ROOF MECHANICAL PIPING PLAN

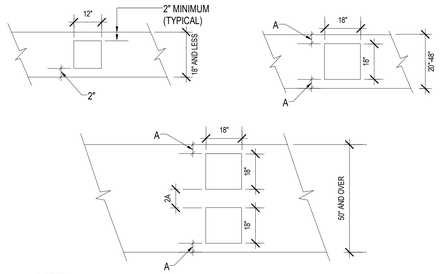
Sheet Number

MP-111

Project Status

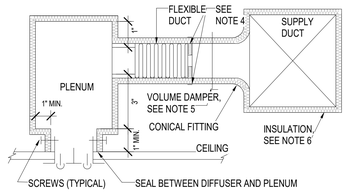
3/28/2018 2:41:37 PM

C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt



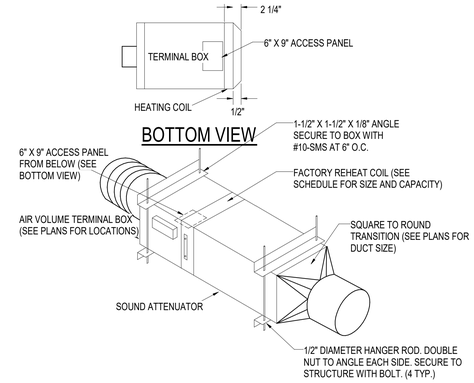
NOTES:
1. PROVIDE DUCT ACCESS DOORS AS PER SPECIFICATION AT CONTROL DEVICES, (AUTOMATIC DAMPERS, THERMOSTATS, ETC.,) FIRE DAMPER, SMOKE DAMPERS, REHEAT COILS, HUMIDIFIERS, AIR FLOW SENSORS, AIR BOXES AND WHERE REQUIRED FOR SERVICE ACCESS, AND AS SHOWN ON DRAWING
2. LOCATE ACCESS DOORS IN DUCTWORK TO FACILITATE ACCESS TO DEVICES REQUIRING SERVICE AND INSPECTION.

1 DUCT ACCESS DOOR DETAILS
NTS

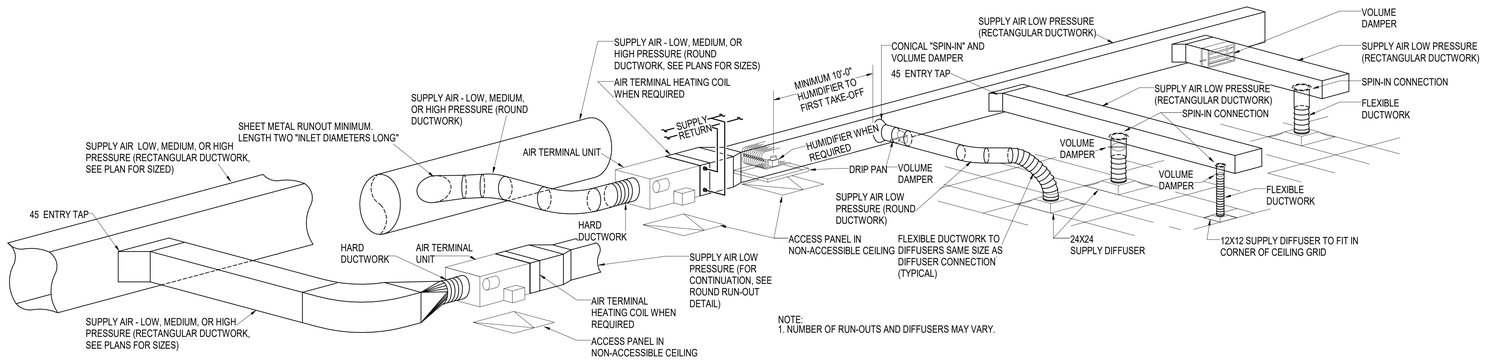


NOTES:
1. INLET CONNECTIONS - 900 FPM MAXIMUM VELOCITY.
2. CENTER-TO-CENTER DISTANCE BETWEEN INLETS - 4 FEET MAXIMUM.
3. PLENUM VELOCITY - 600 FPM MAXIMUM.
4. SECURE FLEXIBLE DUCT TO METAL DUCT WITH (2) STAINLESS STEEL CLAPS, 1 CLAMP SECURING THE FLEXIBLE DUCT'S INNER SLEEVE, AND 1 CLAMP SECURING THE FLEXIBLE DUCT'S OUTER SLEEVE, WHEN INSTALLED ON INSULATED SYSTEMS SEAL INSULATION JOINT WITH VAPOR BARRIER.
5. EXTEND VOLUME DAMPER NECK PAST INSULATION.
6. SEE SPECIFICATION FOR INSULATION THICKNESS AND TYPE.

2 LINEAR DIFFUSER OR REGISTER PLENUM DETAIL
NTS

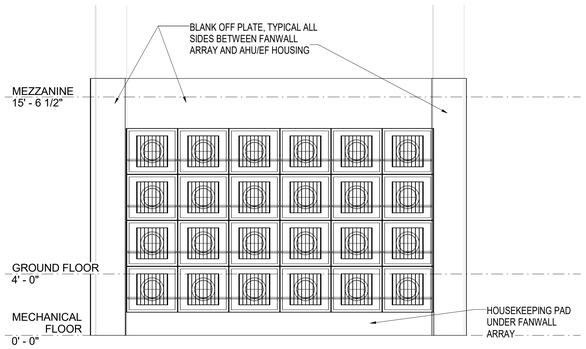


3 TERMINAL UNIT SUPPORT DETAIL
NTS



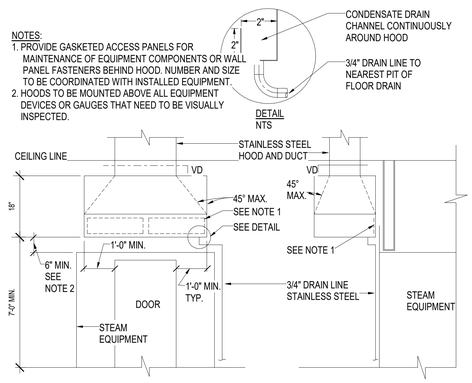
NOTE:
1. NUMBER OF RUN-OUTS AND DIFFUSERS MAY VARY.

4 TYPICAL AIR TERMINAL AND LOW PRESSURE DUCT INSTALLATION DETAIL
NTS

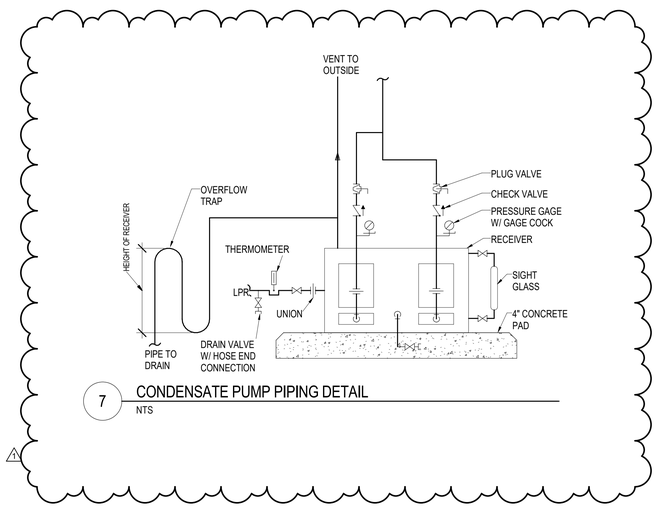


NOTES:
1. SEE DETAILS ON SHEET M-503 FOR ADDITIONAL INFORMATION.
2. SECURE BLANK OFF PLATES TO FAN ARRAY AND TO AHU/EF CASING PER MANUFACTURER'S RECOMMENDATIONS.

5 AHU FANWALL
NTS



6 TYPICAL HOOD DETAILS
NTS



7 CONDENSATE PUMP PIPING DETAIL
NTS

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-25	ADDENDUM #4

Project Number 10062179
Original Issue 05/18/16 -

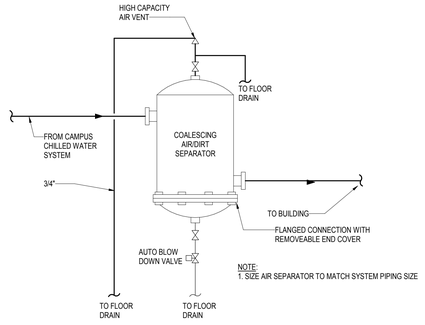
ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM ZAVATKAY 3-28-18

Sheet Name
MECHANICAL DETAILS

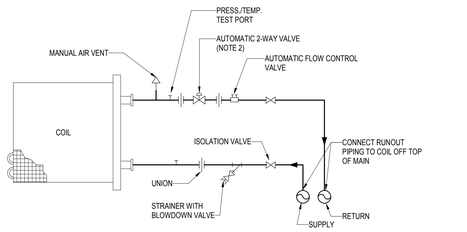
Sheet Number
M-501

Project Status

4/26/2018 2:38:24 PM
C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt

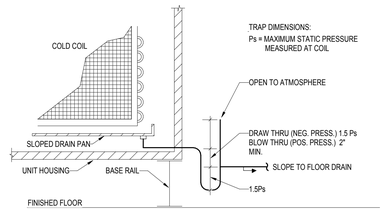


1 CHILLED WATER AIR/DIRT COALESCING SEPARATOR DETAIL
NTS



NOTES:
1. FOR RUNOUT PIPING SIZE REFER TO AIR TERMINAL UNIT SCHEDULE. MINIMUM RUNOUT PIPING SHALL BE 3/4".
2. PROVIDE AUTOMATIC 3-WAY VALVE IN LIEU OF 2-WAY VALVE WHERE INDICATED ON PLANS.
3. BLOW DOWN VALVE SHALL BE METAL HANDLE TYPE. PLASTIC HANDLE BLOW DOWN VALVES ARE NOT ACCEPTABLE.

2 AIR TERMINAL UNIT REHEAT COIL PIPING DETAIL
NTS

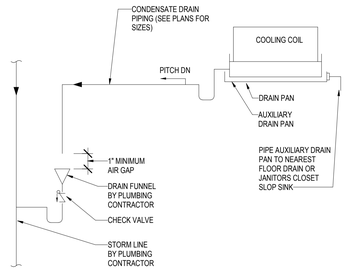


NOTES:
1. TRAP AND DRAIN PIPING SIZE TO BE THE LARGER OF THE OUTLET SIZES OR THE FOLLOWING:

COOLING CAPACITY (MBH)	NORMAL PIPE SIZE
UP TO 200	3/4"
201 TO 450	1"
451 TO 1000	1 1/4"
1001 TO 1500	1 1/2"
1501 TO 3000	2"

2. INSULATE TRAP AND DRAIN PIPING WITH 1/2" CLOSED CELL POLYETHYLENE FOAM INSULATION.

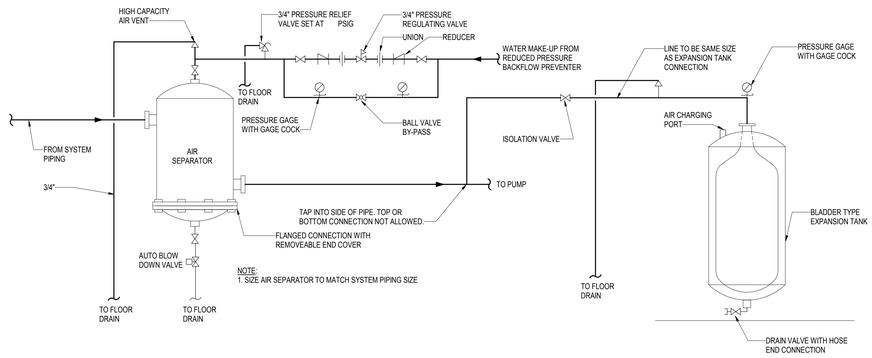
3 COIL CONDENSATE DRAIN PIPING DETAIL
NTS



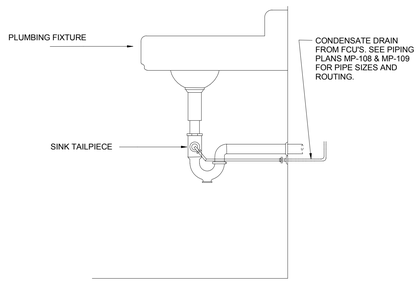
4 COOLING COIL CONDENSATE DRAIN PIPING INSTALLATION DETAIL
NTS

5 FAN COIL UNIT PIPING DETAIL
NTS

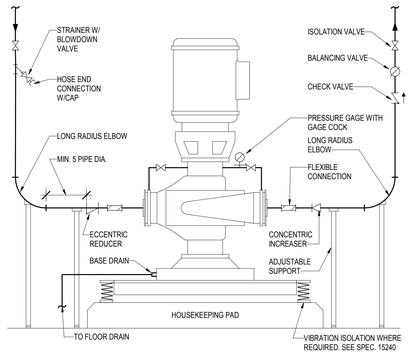
6 FLEXIBLE COUPLED END SUCTION PUMP DETAIL
NTS



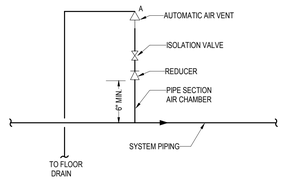
7 HEATING HOT WATER AIR/DIRT COALESCING SEPARATOR AND BLADDER TYPE EXPANSION TANK PIPING DETAIL
NTS



8 CONDENSATE DRAIN DETAIL
N.T.S.

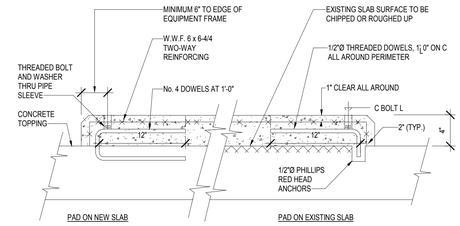


9 VERTICAL SPLIT CASE PUMP DETAIL
1/8" = 1'-0"



NOTES:
1. LOCATE AT HIGH POINT OF CLOSED PIPING SYSTEMS.
2. FOR SYSTEM PIPING 2" AND SMALLER PROVIDE PIPE SECTION AIR CHAMBER SAME AS SYSTEM PIPING.
3. FOR SYSTEM PIPING 2 1/2" AND LARGER PROVIDE PIPE SECTION AIR CHAMBER.

10 AUTOMATIC AIR VENT DETAIL
1/8" = 1'-0"



NOTE:
COORDINATE FINAL PAD DIMENSIONS AND ANCHOR BOLT LOCATIONS WITH EQUIPMENT.

11 HOUSEKEEPING PAD - TYPE 1
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 05/18/16 -

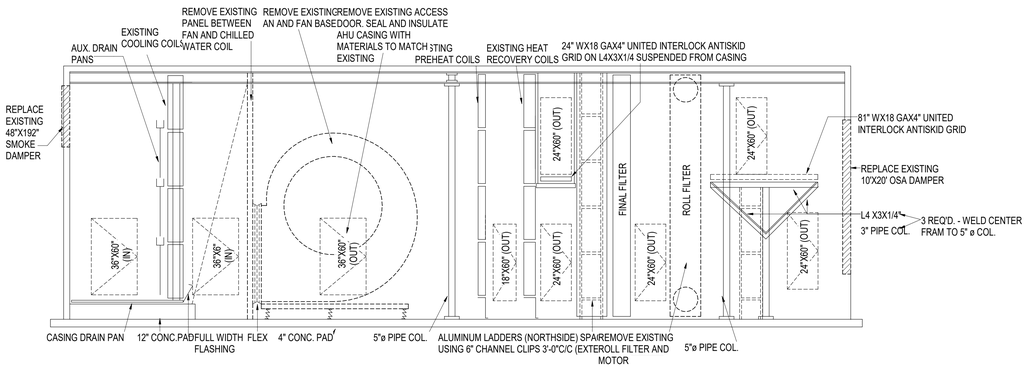
ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM ZANATTA KLEIN 3-28-18

Sheet Name
MECHANICAL DETAILS

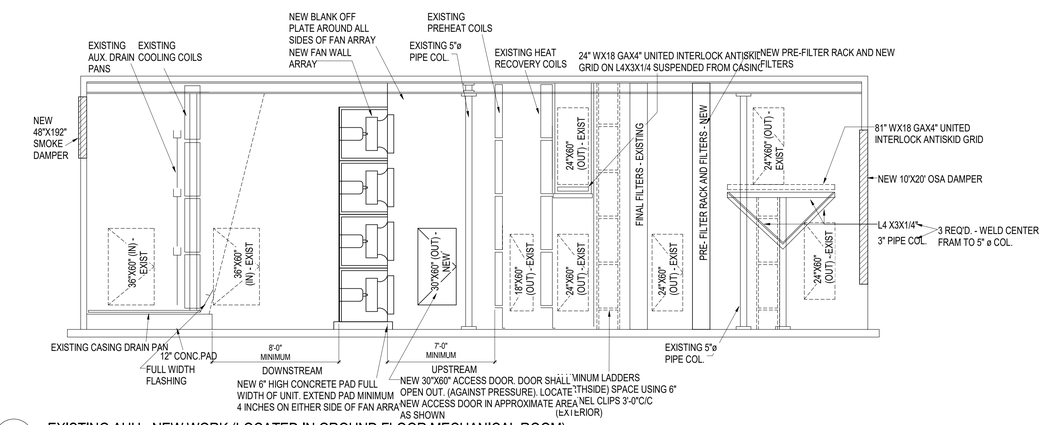
Sheet Number
M-502

Project Status

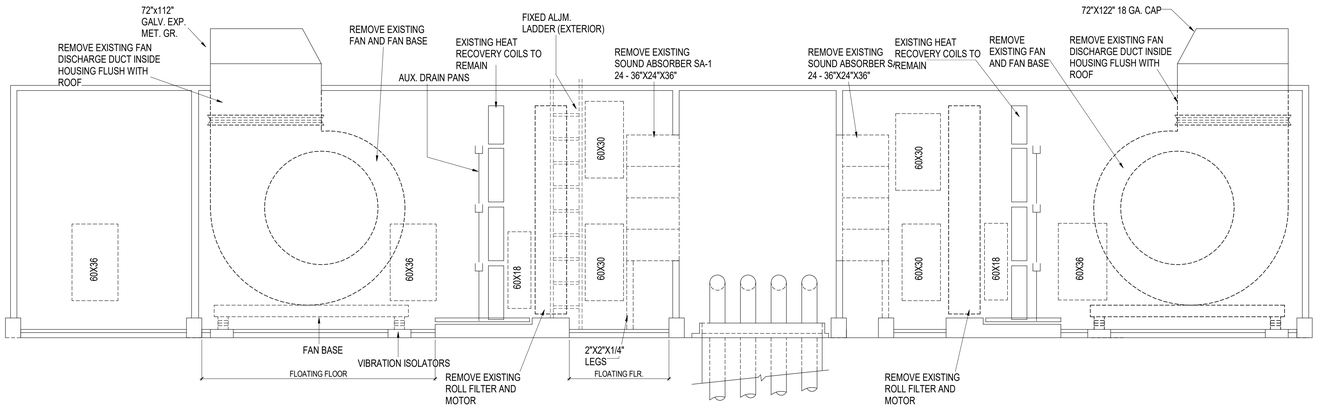
3/28/2018 2:39:21 PM
C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt



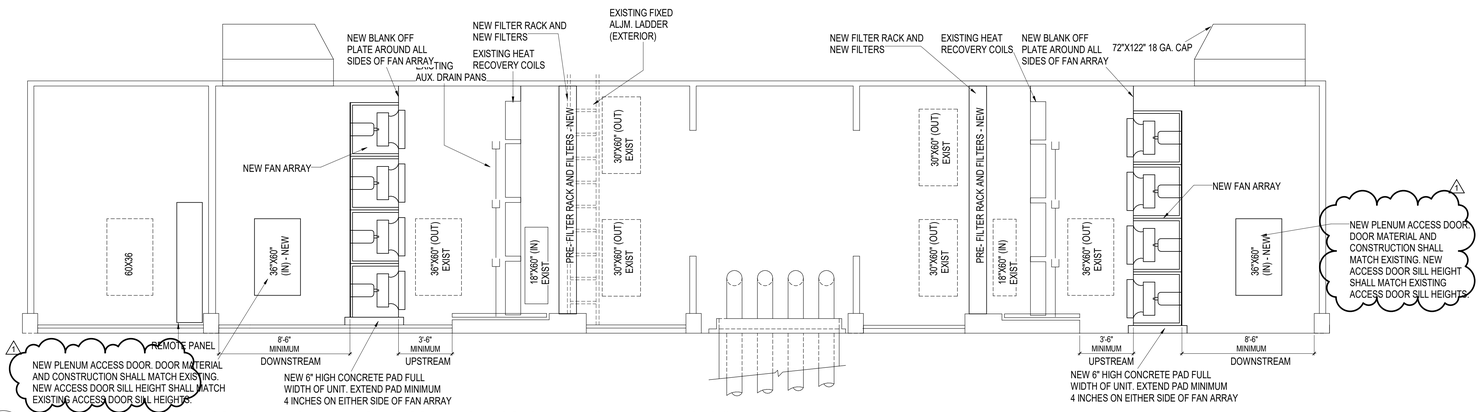
1 EXISTING AHU - DEMOLITION (LOCATED IN GROUND FLOOR MECHANICAL ROOM)
1/4" = 1'-0"



2 EXISTING AHU - NEW WORK (LOCATED IN GROUND FLOOR MECHANICAL ROOM)
1/4" = 1'-0"



3 EXHAUST FAN HOUSING + COMPONENTS - DEMOLITION (LOCATED ON ROOF IN EXHAUST FAN PENTHOUSE)
1/4" = 1'-0"



4 EXHAUST FAN HOUSING + COMPONENTS - NEW WORK (LOCATED ON ROOF IN EXHAUST FAN PENTHOUSE)
1/4" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1

Project Number 10062179
Original Issue 02/27/18 -

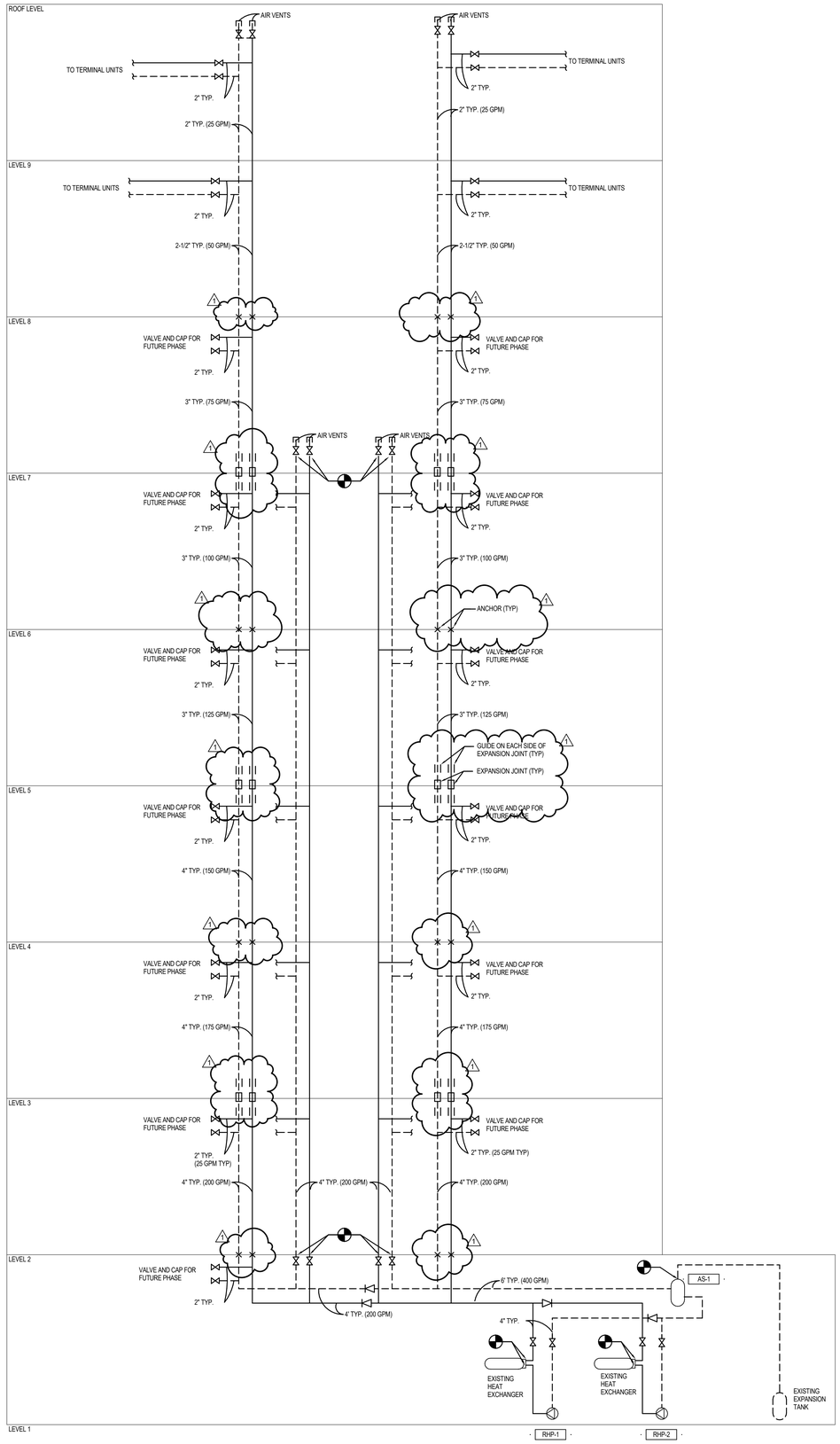
ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER JENNIFER ZAVOTKA-KLEMM
3-28-18

Sheet Name
MECHANICAL DETAILS

Sheet Number
M-503

Project Status

4/4/2018 12:50:07 PM
C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt



1 HEATING HOT WATER FLOW DIAGRAM
NTS

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-25	ADDENDUM #4

Project Number 10062179
Original Issue 05/18/16 -

ALABAMA LICENSED PROFESSIONAL No. 33074 MECHANICAL ENGINEER 3-28-18

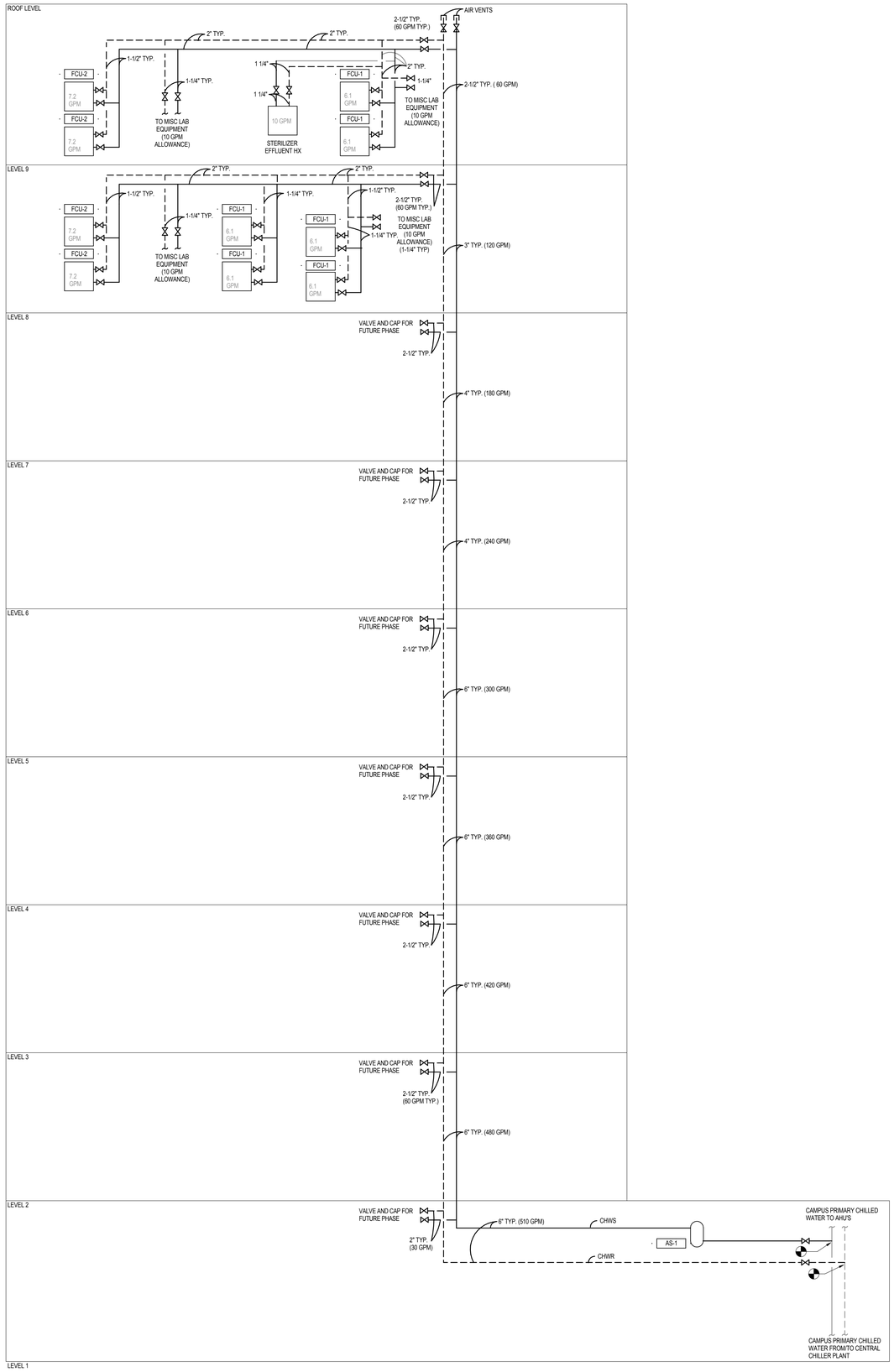
Sheet Name
HEATING HOT WATER FLOW DIAGRAM

Sheet Number
M-601

Project Status

4/25/2018 7:01:00 PM

C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt



1 CHILLED WATER FLOW DIAGRAM
NTS

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 05/18/16 -

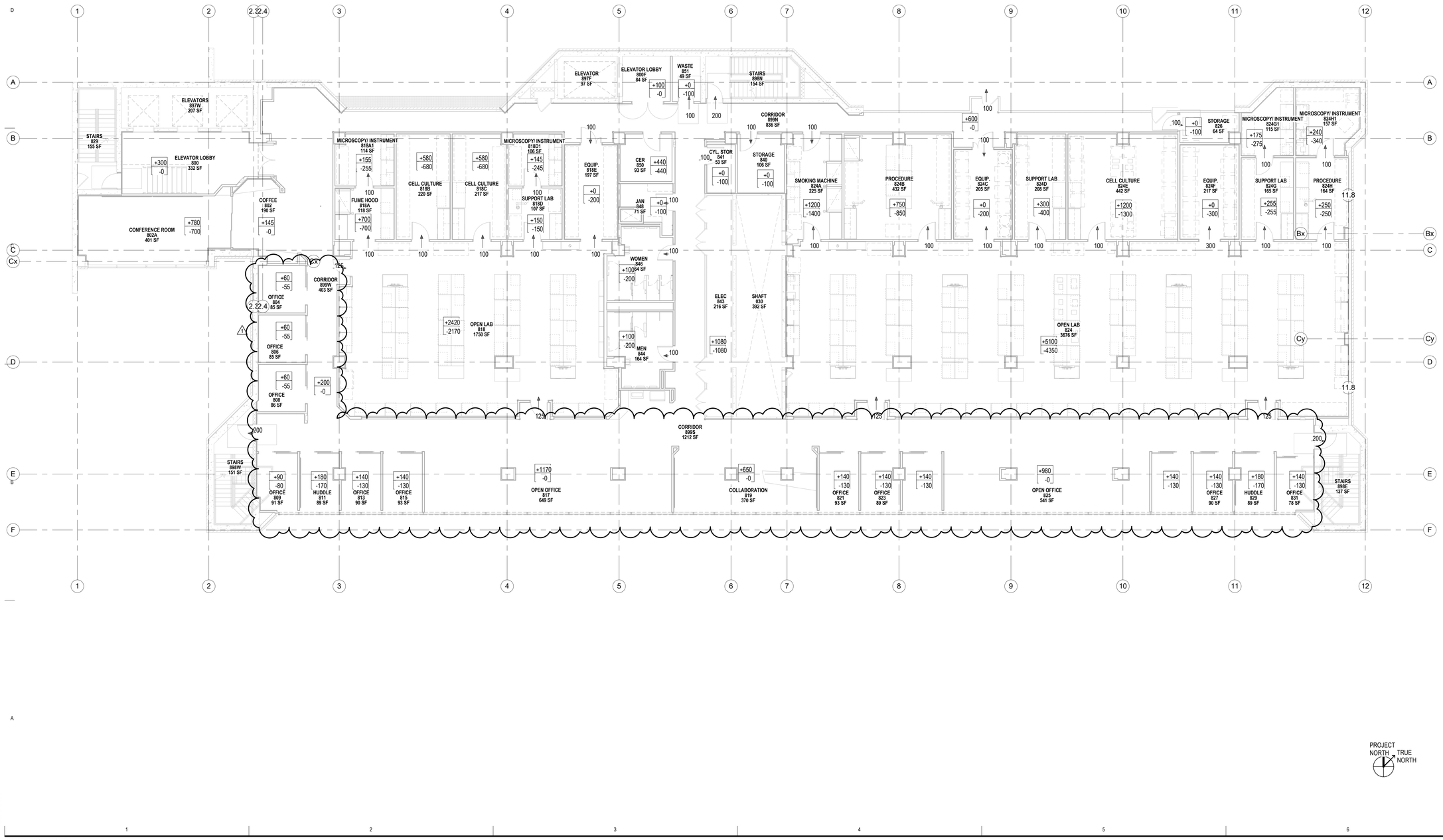
ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER 3-28-18

Sheet Name
CHILLED WATER FLOW DIAGRAM

Sheet Number
M-602

Project Status

3/28/2018 2:42:33 PM
C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt



HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	ADDENDUM #2

Project Number 10062179
Original Issue 05/18/16 -

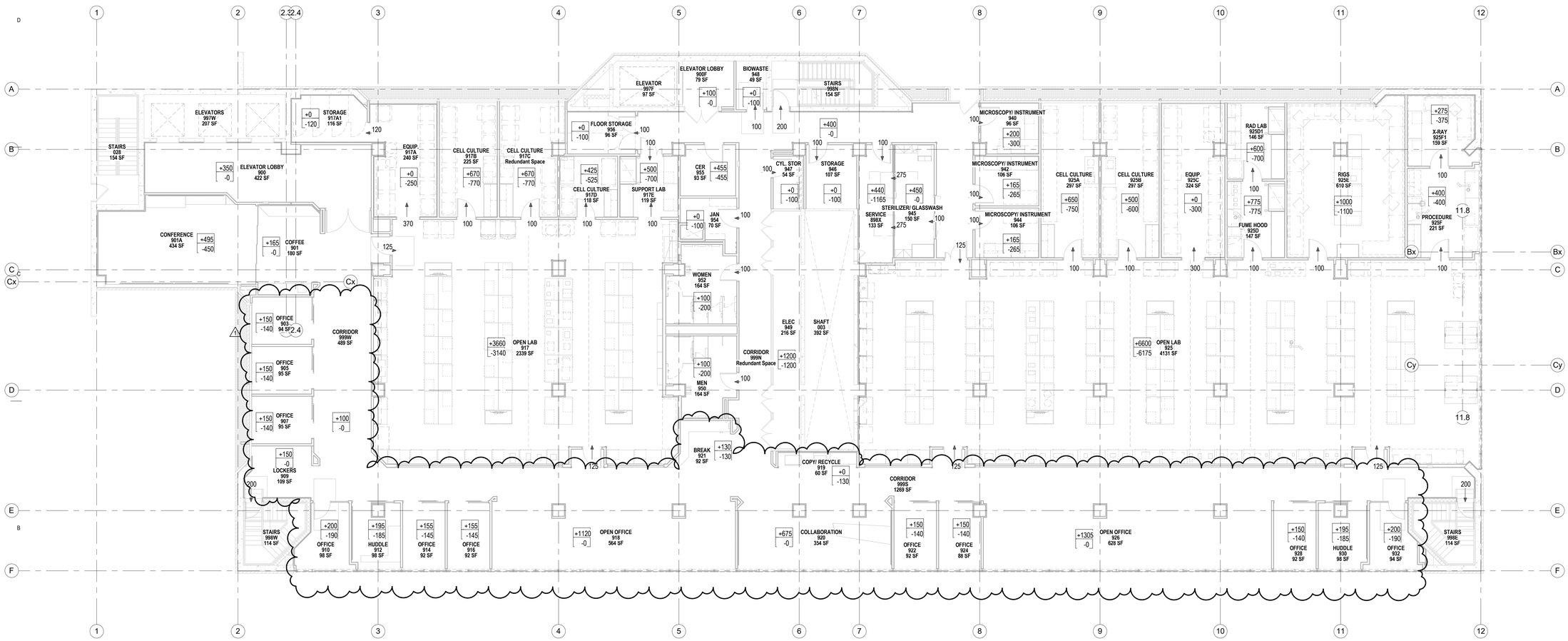
ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER JAMES 2NYDER 3-28-18

Sheet Name
8TH FLOOR AIRFLOW DIAGRAM

Sheet Number
M-603

Project Status

4/13/2018 10:25:36 AM
C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt



1 9TH FLOOR HVAC PLAN

1/8" = 1'-0"

PROJECT NORTH / TRUE NORTH

4/13/2018 9:53:44 AM

C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	ADDENDUM #2

Project Number 10062179
Original Issue 02/20/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM ZAVATKAY 3-28-18

Sheet Name
9TH FLOOR AIR BALANCE DIAGRAM

Sheet Number
M-604

Project Status

AIR HANDLING UNIT SCHEDULE

MARK NUMB...	LOCATION	SERV...	SUPPLY FANS							MOTORS						CHILLED WATER COILS (EXISTING)								HEATING SECTION (EXISTING)									FILTERS					NOTE
			MAXIM... SUPPLY AIR CFM	OPERA... MINIM... AIR CFM	OUTSIDE AIR CFM	NUMBER OF FANS	AIRFLO... PER FAN (CFM)	MAX EXT... (IN...	TOTAL S.P. (IN...	RPM	TYPIC... BHP	1 FAILED... BHP	MOTOR HP	ELECTRICAL... VOLS	PHASE	MAX... VELOCI... FPM	AIRSIDE ENTERING AIR DB DE...	WB...	LEAVING AIR DB...	WB...	MAX... (IN...	WATERSIDE FLOW GPM	MAX... DROP F...	EWT DE...	LWT DEG...	MIN... CAP MBH	MIN... CAP MBH	AIRSIDE EA DEG F	LA DEG...	MAX... (IN...	CAPAC... MBH	WATER SIDE FLOW GPM	MAX... DRO...	EWT DEG F	LWT DEG...	PRE-FILTER	FINAL FILTER	VFD	STANDBY POWER Y/N	BASIS OF DESIGN	
AHU-1	1ST FL MECH	NORTH	139,000	-	139,000	24	6,045	4.0	8.0	3362	10.41	10.93	24 @ 12	460	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	MERV 8	MERV 14	Y	N	TEMTROL	1-12 11
AHU-2	1ST FL MECH	SOUTH	139,000	-	139,000	24	6,045	4.0	8.0	3362	10.41	10.93	24 @ 12	460	3	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	-	MERV 8	MERV 14	Y	N	TEMTROL	1-12

NOTES:
1 PROVIDE NEW FANWALL IN EXISTING AIR HANDLING UNITS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND VERIFY DIMENSIONS ON INSIDE OF EXISTING UNITS.
2 SEE PLANS FOR UNIT CONFIGURATION AND COMPONENTS.
3 CHILLED WATER, HOT WATER AND ENERGY RECOVERY COILS IN AHU'S EXISTING TO REMAIN.
4 PROVIDE NEW FANWALL: SUPPLY, 6 WIDE X 4 HIGH ARRAY, HPF-A100 SIZE 18, 80% WHEEL, 12 HP 2-POLE MOTORS, MULTI-DRIVE ELECTRICAL SYSTEM
5 PROVIDE NEW FANWALL WITH MULTI-DRIVE ELECTRICAL SYSTEM, (24) 10 HP MULTI-DRIVE VFD'S, WITH SOC OPTIMIZATION, INCLUDING AIRFLOW TOTALIZATION WITH 4.3 INCH COLOR TOUCH SCREEN WITH BACnet IP COMMUNICATION PROTOCOL.
6 PROVIDE NEW FANWALL WITH REMOTE MOUNTED ELECTRICAL PANEL, SIZE 90 INCHES HIGH X 72 INCHES WIDE X 20 INCHES DEEP
7 PROVIDE FANS WITH PREMIUM EFFICIENT MOTORS
8 PROVIDE FANS WITH INDIVIDUAL BACKDRAFT DAMPERS
9 PROVIDE NEW PRE-FILTERS AND PRE-FILTER RACK INSIDE AHU'S
10 PROVIDE NEW FINAL FILTERS ON EXISTING FINAL FILTER RACK IN AHU'S
11 PROVIDE NEW INTAKE DAMPER, INCLUDING NEW ACTUATORS AND CONTROLS. APPROXIMATE SIZE IS 20 FEET WIDE X 10 FEET HIGH. CONTRACTOR TO FIELD VERIFY ACTUAL DIMENSIONS.
12 PROVIDE NEW DISCHARGE SMOKE DAMPERS ON EACH AHU, INLCLUDING NEW ACTUATORS AND CONTROLS. APPROXIMATE SIZE IS 192 INCHES WIDE X 48 INCHES HIGH. CONTRACTOR TO FIELD VERIFY ACTUAL DIMENSIONS.

LAB EXHAUST VALVE SCHEDULE

MARK NUMBER	SERVES	MAXIMUM AIRFLOW (CFM)	OCCUPIED MINIMUM AIRFLOW (CFM)	UNOCCUPIED MINIMUM AIRFLOW (CFM)	INLET DIA IN	STATIC * PRESS DROP IN WG	MAX SOUND POWER ** DISCHAR... dB	RADIATED dB	BASIS OF DESIGN	NOTE
LEV-818	OPEN LAB - 818	2170	1325	715	14	0.3	66	52	SIEMENS LGE	VAV
LEV-818A	FUME HOOD - 818A	700	700	280	12	0.3	60	43	SIEMENS LGE	2P
LEV-818A1	MICROSCOPY/INSTRUMENT - 818A1	255	160	160	6	0.3	59	41	SIEMENS LGE	VAV
LEV-818B	CELL CULTURE - 818B	680	330	330	10	0.3	60	42	SIEMENS LGE	VAV
LEV-818C	CELL CULTURE - 818C	680	330	330	10	0.3	60	42	SIEMENS LGE	VAV
LEV-818D	SUPPORT LAB - 218D	150	150	60	6	0.3	54	38	SIEMENS LGE	2P
LEV-818D1	MICROSCOPY/INSTRUMENT - 818D1	245	160	160	6	0.3	58	41	SIEMENS LGE	VAV
LEV-818E	EQUIPMENT - 818	200	200	200	6	0.3	55	39	SIEMENS LGE	CV
LEV-824-A	OPEN LAB - 824	2175	1280	500	14	0.3	66	52	SIEMENS LGE	VAV
LEV-824-B	OPEN LAB - 824	2175	1280	500	14	0.3	66	52	SIEMENS LGE	VAV
LEV-824A-A	SMOKING MACHINE - 824A	700	700	340	10	0.3	62	43	SIEMENS LGE	2P
LEV-824A-B	SMOKING MACHINE - 824A	700	700	340	10	0.3	62	43	SIEMENS LGE	2P
LEV-824B-A	PROCEDURE ROOM - 824B	700	700	250	10	0.3	62	43	SIEMENS LGE	2P
LEV-824-B-C	PROCEDURE ROOM - 824B	225	225	225	6	0.3	58	40	SIEMENS LGE	CV
LEV-824C	EQUIPMENT - 824C	200	200	200	6	0.3	54	39	SIEMENS LGE	CV
LEV-824D	SUPPORT LAB - 824D	400	220	220	8	0.3	58	42	SIEMENS LGE	VAV
LEV-824E	CELL CULTURE - 824E	1300	580	580	14	0.3	63	49	SIEMENS LGE	VAV
LEV-824F	EQUIPMENT - 824F	400	400	400	8	0.3	58	44	SIEMENS LGE	CV
LEV-824G	SUPPORT LAB - 824G	255	150	100	6	0.3	58	41	SIEMENS LGE	VAV
LEV-824G1	MICROSCOPY - 824G1	275	170	170	6	0.3	60	42	SIEMENS LGE	VAV
LEV-824H	PROCEDURE - 824H	175	100	100	6	0.3	58	41	SIEMENS LGE	VAV
LEV-824H1	MICROSCOPY/INSTRUMENT - 824H1	340	195	195	6	0.3	62	43	SIEMENS LGE	VAV
LEV-840	CHEM STORAGE - 840	300	300	300	8	0.3	57	41	SIEMENS LGE	CV
LEV-917-A	OPEN LAB - 917	1570	800	470	16	0.3	63	47	SIEMENS LGE	VAV
LEV-917-B	OPEN LAB - 917	1570	800	470	16	0.3	63	47	SIEMENS LGE	VAV
LEV-917A	EQUIPMENT - 917A	370	370	370	8	0.3	57	41	SIEMENS LGE	CV
LEV-917B	CELL CULTURE - 917B	770	370	370	10	0.3	63	43	SIEMENS LGE	VAV
LEV-917C	CELL CULTURE - 917A	770	370	370	10	0.3	63	43	SIEMENS LGE	VAV
LEV-917D	CELL CULTURE - 917D	525	270	270	8	0.3	62	42	SIEMENS LGE	VAV
LEV-917E	SUPPORT LAB - 917E	700	700	400	10	0.3	62	42	SIEMENS LGE	2P
LEV-925-A	OPEN LAB - 925	3090	1605	1110	16	0.3	66	52	SIEMENS LGE	VAV
LEV-925-B	OPEN LAB - 925	3085	1600	1105	16	0.3	66	52	SIEMENS LGE	VAV
LEV-925A	CELL CULTURE - 925A	750	360	360	10	0.3	63	43	SIEMENS LGE	VAV
LEV-925B	CELL CULTURE - 925B	600	300	300	10	0.3	60	42	SIEMENS LGE	VAV
LEV-925C	EQUIPMENT - 925C	300	300	300	6	0.3	61	43	SIEMENS LGE	CV
LEV-925D	FUME HOOD - 925D	700	700	240	10	0.3	62	43	SIEMENS LGE	2P
LEV-925D-A	FUME HOOD - 925D	300	300	300	6	0.3	58	40	SIEMENS LGE	CV
LEV-925D1	RAD LAB - 925D1	700	700	340	10	0.3	62	43	SIEMENS LGE	2P
LEV-925E	RIGS - 925E	1100	650	500	12	0.3	63	46	SIEMENS LGE	VAV
LEV-925F	PROCEDURE - 925F	250	150	150	8	0.3	58	42	SIEMENS LGE	VAV
LEV-925F1	X-RAY - 925F1	375	210	210	8	0.3	57	41	SIEMENS LGE	VAV
LEV-940	MICROSCOPY - 940,942,944	830	830	510	10	0.3	57	41	SIEMENS LGE	2P
LEV-945	STERILIZER/GLASSWASH - 945	1090	555	555	12	0.3	64	47	SIEMENS LGE	VAV
LEV-946	STORAGE - 946	440	440	440	8	0.3	62	42	SIEMENS LGE	CV
Totals:		35285								

NOTES:
SCHEDULE NOTES:
- *STATIC PRESSURE DROP THRU THE BOX AND REHEAT COIL (IF USED) WITH THE AIR VALVE 100% OPEN AT THE SCHED. CFM.
- **SOUND POWER (dB re 10 -12 WATTS) IS FOR THE BASIC UNIT ONLY BASED UPON THE FOLLOWING CRITERIA.
A) NOMINAL AIRFLOW SHOWN
B) 2.0 INCHES W.G. STATIC PRESSURE DROP ACROSS THE AIR VALVE
C) AS MEASURED IN THE THIRD OCTAVE BAND (250 HZ)
- AIR TERMINAL UNIT PERFORMANCE EXCEEDING THE MAX SOUND POWER SHOWN WILL NOT BE ACCEPTED.
- PROVIDE ORIFACE-PLATE AIR FLOW SENSOR WITH EACH ASSEMBLY.
- HEATING CAPACITIES BASED ON NOMINAL AIR FLOW VALUES.

LAB SUPPLY VALVE SCHEDULE

MARK NUMBER	SERVES	MAXIM... AIRFLOW (CFM)	OCCUPIED MINIMUM AIRFLOW (CFM)	UNOCCUPIED MINIMUM AIRFLOW (CFM)	INLET DIA IN	MAX STATIC * PRESS DROP IN WG	MAX SOUND POWER ** DISCHARGE dB	RADIATED dB	REHEAT COIL DATA CAPACITY MBH	FLOW GPM	EWT	LWT	EAT	LAT	MAX H20 PD FT WG	PIPE CONN. IN.	BASIS OF DESIGN	NO...
LSV-818-A	OPEN LAB - 818	1440	940	575	12	0.3	0.5	76	35.7	2.4	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-818-B	OPEN LAB - 818	980	635	390	10	0.3	0.4	72	24.1	1.6	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-818A	FUME HOOD - 818A	700	700	280	10	0.3	0.4	72	26.6	1.8	180	150	55	90	5	3/4	SIEMENS LGS	2P
LSV-818A1	MICROSCOPY/INSTRUMENT - 818A1	155	60	60	6	0.3	0.3	69	2.3	0.2	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-818B	CELL CULTURE - 818B	580	230	230	8	0.3	0.3	72	8.7	0.6	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-818C	CELL CULTURE- 818C	580	230	230	8	0.3	0.3	72	8.7	0.6	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-818D	SUPPORT LAB - 818D	150	150	60	6	0.3	0.3	69	5.7	0.4	180	150	55	90	5	3/4	SIEMENS LGS	2P
LSV-818D1	MICROSCOPY/ INSTRUMENT - 818D1	145	60	60	6	0.3	0.3	69	2.3	0.2	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-824-A	OPEN LAB - 824	2040	1425	675	14	0.3	0.6	76	54.1	3.6	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-824-B	OPEN LAB - 824	2040	1425	675	14	0.3	0.6	76	54.1	3.6	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-824-C	OPEN LAB - 824	1020	460	400	12	0.3	0.5	76	17.5	1.2	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-824A	SMOKING MACHINE - 824A	1200	1200	480	12	0.3	0.5	76	45.6	3.0	180	150	55	90	5	3/4	SIEMENS LGS	2P
LSV-824B	PROCEDURE - 824B	750	750	300	10	0.3	0.4	72	28.5	1.9	180	150	55	90	5	3/4	SIEMENS LGS	2P
LSV-824D	SUPPORT LAB - 824D	300	120	120	6	0.3	0.3	69	4.6	0.3	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-824E	CELL CULTURE - 824E	1200	480	480	12	0.3	0.5	76	18.2	1.2	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-824G	SUPPORT LAB -824G	255	150	100	6	0.3	0.3	69	5.7	0.4	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-824G1	MICROSCOPY/INSTRUMENT - 824G1	175	70	70	6	0.3	0.3	69	2.7	0.2	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-824H	PROCEDURE - 824H	250	175	175	6	0.3	0.3	69	6.6	0.4	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-824H1	MICROSCOPY/INSTRUMENT - 824H1	240	95	95	6	0.3	0.3	69	3.6	0.2	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-917-A	OPEN LAB - 917	2200	1270	880	14	0.3	0.6	76	48.2	3.2	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-917-B	OPEN LAB - 917	1460	850	580	12	0.3	0.5	76	32.3	2.2	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-917B	CELL CULTURE - 917B	670	270	270	10	0.3	0.4	72	10.3	0.7	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-917C	CELL CULTURE - 917C	670	270	270	10	0.3	0.4	72	10.3	0.7	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-917D	CELL CULTURE - 917D	425	170	170	8	0.3	0.3	72	6.5	0.4	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-917E	SUPPORT LAB - 917E	500	500	200	8	0.3	0.3	72	19.0	1.3	180	150	55	90	5	3/4	SIEMENS LGS	2P
LSV-925-A	OPEN LAB - 925	2640	1450	1055	16	0.3	0.7	72	55.1	3.7	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-925-B	OPEN LAB - 925	2640	1450	1055	16	0.3	0.7	72	55.1	3.7	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-925-C	OPEN LAB - 925	1320	730	530	12	0.3	0.5	76	27.7	1.8	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-925A	CELL CULTURE - 925A	650	260	260	10	0.3	0.4	72	9.9	0.7	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-925B	CELL CULTURE - 925B	500	200	200	8	0.3	0.3	72	7.6	0.5	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-925D	FUME HOOD - 925D	775	775	315	10	0.3	0.4	72	29.4	2.0	180	150	55	90	5	3/4	SIEMENS LGS	2P
LSV-925D1	RAD LAB - 925D1	600	600	240	10	0.3	0.4	72	22.8	1.5	180	150	55	90	5	3/4	SIEMENS LGS	2P
LSV-925E	RIGS - 925E	1000	550	400	10	0.3	0.4	72	20.9	1.4	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-925F	PROCEDURE - 925F	400	300	300	8	0.3	0.3	72	11.4	0.8	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-925F1	XRAY - 925F1	275	110	110	6	0.3	0.3	69	4.2	0.3	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-940	MICROSCOPY/INSTRAMENT - 940,942,944	530	530	210	8	0.3	0.3	72	20.1	1.3	180	150	55	90	5	3/4	SIEMENS LGS	2P
LSV-945	STERILIZER/GLASSWASH - 945	450	180	180	8	0.3	0.3	72	6.8	0.5	180	150	55	90	5	3/4	SIEMENS LGS	VAV
LSV-947	STERILZER/GLASSWASH SERVICE AREA	440	175	175	8	0.3	0.3	72	-	-	-	-	-	-	-	-	SIEMENS LGS	VAV
Totals:		32345		12855					753	50.2								

NOTES:
SCHEDULE NOTES:
- *STATIC PRESSURE DROP THRU THE BOX AND REHEAT COIL (IF USED) WITH THE AIR VALVE 100% OPEN AT THE SCHEDULED CFM.
- **SOUND POWER (dB re 10 -12 WATTS) IS FOR THE BASIC UNIT ONLY BASED UPON THE FOLLOWING CRITERIA.
A) NOMINAL AIRFLOW SHOWN
B) 2.0 INCHES W.G. STATIC PRESSURE DROP ACROSS THE AIR VALVE
C) AS MEASURED IN THE THIRD OCTAVE BAND (250 HZ)
- AIR TERMINAL UNIT PERFORMANCE EXCEEDING THE MAX SOUND POWER SHOWN WILL NOT BE ACCEPTED.
- PROVIDE ORIFACE-PLATE AIR FLOW SENSOR WITH EACH ASSEMBLY.
- HEATING CAPACITIES BASED ON NOMINAL AIR FLOW VALUES.

EXHAUST FAN SCHEDULE

MARK NUMB...	LOCATION	SERV...	EXHAUST FANS MAXIM... SUPPLY AIR CFM	OPERA... MINIM... AIR CFM	NUMBER OF FANS	AIRFLO... PER FAN (CFM)	MAX EXT... (IN...	TOTAL S.P. (IN...	MOTORS RPM	TYPIC... BHP	1 FAILED... BHP	MOTOR HP	ELECTRICAL... VOLS	PHASE	HEATING SECTION (EXISTING) AIRSIDE EA DEG F	LA DEG...	MAX... (IN...	CAPAC... MBH	WATER SIDE FLOW GPM	MAX... DRO...	EWT DEG F	LWT DEG...	FILTERS PRE-FILTER	VFD	STANDBY POWER Y/N	BASIS OF DESIGN	NOTE
EF-1	ROOF	NORTH	163,000	-	24	604,510	5.0	6.0	2,655	9.56	10.13	24 @ 10.5	460	3	-	-	-	-	-	-	-	-	MERV 8	Y	Y	TEMTROL	1-12 11
EF-2	ROOF	SOUTH	163,000	-	24	6,045	5.0	6.0	2,655	9.56	10.13	24 @ 10.5	460	3	-	-	-	-	-	-	-	-	MERV 8	Y	Y	TEMTROL	1-12

NOTES:
1 PROVIDE NEW FANWALL IN EXISTING EXHAUST FAN UNITS. CONTRACTOR TO FIELD VERIFY EXISTING CONDITIONS AND VERIFY DIMENSIONS ON INSIDE OF EXISTING UNITS.
2 SEE PLANS FOR UNIT CONFIGURATION AND COMPONENTS.
3 ENERGY RECOVERY COILS IN EXHAUST FAN UNITS ARE EXISTING TO REMAIN.
4 PROVIDE NEW FANWALL: SUPPLY, 6 WIDE X 4 HIGH ARRAY, HPF-A100 SIZE 20, 90% WHEEL, 10.5 HP 4-POLE MOTORS, MULTI-DRIVE ELECTRICAL SYSTEM
5 PROVIDE NEW FANWALL WITH MULTI-DRIVE ELECTRICAL SYSTEM, (24) 10 HP MULTI-DRIVE VFD'S, WITH PLC OPTIMIZATION, INCLUDING AIRFLOW TOTALIZATION WITH 5.7 INCH COLOR TOUCH SCREEN WITH BACnet IP COMMUNICATION...
6 PROVIDE NEW FANWALL WITH REMOTE MOUNTED ELECTRICAL CONTROL PANEL, SIZE 94 INCHES HIGH X 67 INCHES WIDE X 20 INCHES DEEP. CONTROL PANELS LOCATED OUTDOORS SHALL BE NEMA 3R OUTDOOR RATED PANELS.
7 PROVIDE FANS WITH PREMIUM EFFICIENT MOTORS
8 PROVIDE FANS WITH INDIVIDUAL BACKDRAFT DAMPERS
9 PROVIDE NEW PRE-FILTERS AND PRE-FILTER RACK INSIDE EXHAUST FAN HOUSING
10 FAN WALL DESIGNED TO MAINTAIN AIRFLOW WITH ONE FAILED FAN. WITH ONE FAILED FAN RPM IS 2,712 PER FAN.

EXHAUST FAN SOUND DATA SCHEDULE

Mark	Source	Max SWL, dBL (re 1 picowatt) 63	125	250	500	1000	2000	4000	8000	LwA	Lw
EF-1, EF-2 W/ ALL FANS...	INLET	98	94	106	104	99	99	95	93	106	110
	OUTLET	102	97	102	101	99	94	88	79	103	108
EF-1, EF-2 W/ 1 FAN FAILED	INLET	98	95	105	105	99	99	96	94	106	110
	OUTLET	102	97	100	101	99	94	89	79	103	107

AIR HANDLING UNIT SOUND DATA SCHEDULE

Mark	Source	Max SWL, dBL (re 1 picowatt) 63	125	250	500	1000	2000	4000	8000	LwA	Lw
AHU-1, AHU-2 W/ ALL FANS...	INLET	97	93	96	113	99	99	97	95	111	114
	OUTLET	101	99	94	104	98	97	90	81	104	108
AHU-1, AHU-2 W/ 1 FAN FAILED	INLET	98	94	96	113	99	99	97	95	111	114
	OUTLET	101	99	94	104	99	98	90	81	105	108

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER WILLIAM ZAVATKAY 3-28-18

Sheet Name
MECHANICAL SCHEDULES

Sheet Number
M-701

Project Status

3/29/2018 6:25:17 PM
C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt

AIR TERMINAL UNIT SCHEDULE - SUPPLY

MARK NUMBER	SERVES	NOMINAL AIRFLOW (CFM)	OCCUPIED MINIMUM AIRFLOW (CFM)	INLET DIA IN	STATIC * PRESS DROP IN WG	MAX SOUND POWER ** DISCHARGE dB	MAX SOUND POWER ** RADIATED dB	REHEAT COIL DATA CAPACITY MBH	REHEAT COIL DATA FLOW GPM	REHEAT COIL DATA EWT	REHEAT COIL DATA LWT	REHEAT COIL DATA EAT	REHEAT COIL DATA LAT	MAX H20 PD FT WG	PIPE CONN. IN.	BASIS OF DESIGN	NOTE
CVS-800	ELEVATOR LOBBY - 800	300	300	6	0.3	69	62	11.4	0.8	180	150	55	90	5	3/4	TITUS DESV	
VVS-802	COFFEE - 802	145	60	6	0.3	69	62	2.3	0.2	180	150	55	90	5	3/4	TITUS DESV	
VvS-802A	CONFERENCE ROOM - 802A	780	310	10	0.4	72	64	11.8	0.8	180	150	55	90	5	3/4	TITUS DESV	
VVS-808	OFFICES - 804, 806, 808	380	295	8	0.3	72	60	11.2	0.7	180	150	55	90	5	3/4	TITUS DESV	
VVS-811	HUDDLE - 811	180	80	6	0.3	69	62	3.0	0.2	180	150	55	90	5	3/4	TITUS DESV	
VVS-815	OFFICES - 809, 813, 815	370	150	8	0.3	72	60	5.7	0.4	180	150	55	90	5	3/4	TITUS DESV	
CVS-816	COPY RECYCLE - 816	125	125	6	0.3	69	62	4.7	0.3	180	150	55	90	5	3/4	TITUS DESV	
VVS-817	OPEN OFFICE - 817	1170	900	12	0.5	76	64	34.2	2.3	180	150	55	90	5	3/4	TITUS DESV	
VVS-819	COLLABORATION - 819	650	500	10	0.4	72	64	19.0	1.3	180	150	55	90	5	3/4	TITUS DESV	
VVS-823	OFFICES - 821, 823, 823.5	420	275	8	0.3	72	60	10.4	0.7	180	150	55	90	5	3/4	TITUS DESV	
VVS-825	OPEN OFFICE -825	980	750	10	0.4	72	64	28.5	1.9	180	150	55	90	5	3/4	TITUS DESV	
VVS-827	OFFICES - 827 827.5, 831	420	170	8	0.3	72	60	6.5	0.4	180	150	55	90	5	3/4	TITUS DESV	
VVS-829	HUDDLE - 829	180	80	6	0.3	69	62	3.0	0.2	180	150	55	90	5	3/4	TITUS DESV	
CVS-844	MENS & WOMANS ROOM - 844,846	200	200	6	0.3	69	62	7.6	0.5	180	150	55	90	5	3/4	TITUS DESV	
VVS-843	ELECTRIC - 843	1080	430	12	0.5	76	64	-	-	-	-	-	-	-	-	TITUS DESV	
VVS-850	CER - 850	440	175	8	0.3	72	60	-	-	-	-	-	-	-	-	TITUS DESV	
CVS-899N	CORRODOR - 899N	700	700	10	0.4	72	64	26.6	1.8	180	150	55	90	5	3/4	TITUS DESV	
CVS-900	ELEVATOR LOBBY - 900	350	350	6	0.3	69	62	13.3	0.9	180	150	55	90	5	3/4	TITUS DESV	
VVS-901	COFFEE - 901	165	105	6	0.3	69	62	4.0	0.3	180	150	55	90	5	3/4	TITUS DESV	
VVS-901A	CONFERENCE - 901A	495	320	8	0.3	72	60	12.2	0.8	180	150	55	90	5	3/4	TITUS DESV	
VVS-907	OFFICE 903, 905, 907	550	300	8	0.3	72	60	11.4	0.8	180	150	55	90	5	3/4	TITUS DESV	
VVS-909	LOCKERS 909	150	150	6	0.3	69	62	5.7	0.4	180	150	55	90	5	3/4	TITUS DESV	
VVS-912	HUDDLE - 912	195	85	6	0.3	69	62	3.2	0.2	180	150	55	90	5	3/4	TITUS DESV	
VVS-916	OFFICES 910, 914, 916	510	220	8	0.3	72	60	8.4	0.6	180	150	55	90	5	3/4	TITUS DESV	
VVS-918	OPEN OFFICE - 918	1120	850	12	0.5	76	64	32.3	2.2	180	150	55	90	5	3/4	TITUS DESV	
VVS-920	COLLABORATION - 920	675	500	10	0.4	72	64	19.0	1.3	180	150	55	90	5	3/4	TITUS DESV	
CVS-921	BREAK - 921	130	130	6	0.3	69	62	4.9	0.3	180	150	55	90	5	3/4	TITUS DESV	
VVS-924	OFFICES - 922, 924	300	195	6	0.3	69	62	7.4	0.5	180	150	55	90	5	3/4	TITUS DESV	
VVS-926	OPEN OFFICE 926	1305	1000	12	0.5	76	64	38.0	2.5	180	150	55	90	5	3/4	TITUS DESV	
VVS-928	OFFICE - 928, 932	350	160	6	0.3	69	62	6.1	0.4	180	150	55	90	5	3/4	TITUS DESV	
VVS-930	HUDDLE - 930	195	85	6	0.3	69	62	3.2	0.2	180	150	55	90	5	3/4	TITUS DESV	
VVS-949	ELECTRIC - 949	1200	480	12	0.5	76	64	-	-	-	-	-	-	-	-	TITUS DESV	
CVS-950	MENS & WOMANS ROOM - 950, 952	200	200	6	0.3	69	62	7.6	0.5	180	150	55	90	5	3/4	TITUS DESV	
VVS-955	CER - 955	455	180	8	0.3	72	60	-	-	-	-	-	-	-	-	TITUS DESV	
CVS-999N	CORRIDOR - 999N	650	650	8	0.3	72	60	24.7	1.6	180	150	55	90	5	3/4	TITUS DESV	
Totals:		17515	11460					387	25.8								

NOTES:

SCHEDULE NOTES:
- *STATIC PRESSURE DROP THRU THE BOX AND REHEAT COIL (IF USED) WITH THE AIR VALVE 100% OPEN AT THE SCHEDULED CFM.
- **SOUND POWER (dB re 10 -12 WATTS) IS FOR THE BASIC UNIT ONLY BASED UPON THE FOLLOWING CRITERIA.
  - A) NOMINAL AIRFLOW SHOWN
  - B) 2.0 INCHES W.G. STATIC PRESSURE DROP ACROSS THE AIR VALVE
  - C) AS MEASURED IN THE THIRD OCTAVE BAND (250 HZ)
- AIR TERMINAL UNIT PERFORMANCE EXCEEDING THE MAX SOUND POWER SHOWN WILL NOT BE ACCEPTED.
- SEE PLANS FOR ACTUAL MAXIMUM AIRFLOW SETTING REQUIRED.
- PROVIDE MULTI-PORT AIR FLOW SENSOR WITH EACH ASSEMBLY.
- HEATING CAPACITIES BASED ON NOMINAL AIR FLOW VALUES.

DAMPER SCHEDULE

MARK NUMBER	SYSTEM SERVED	SERVICE TYPE	DAMPER CONFIGURATION	BLADE TYPE	MAX AIR VELOCITY FPM	NOMINAL SIZE L x W IN	ACTUATOR TYPE	BASIS OF DESIGN	NOTE
D-1	AHU-1	OA INTAKE	Parallel	Airfoil	1,000	240 x 120	Electric	Ruskin	1
D-2	AHU-1	DISCHARGE	Parallel	Airfoil	2,200	192 x 48	Electric	Ruskin	1
D-3	AHU-2	OA INTAKE	Parallel	Airfoil	1,000	240 x 120	Electric	Ruskin	1
D-4	AHU-2	DISCHARGE	Parallel	Airfoil	2,200	192 x 48	Electric	Ruskin	1
D-5	SUPPLY AIR	CROSS DUCT	Parallel	Airfoil	3,000	96 x 42	Electric	Ruskin	

NOTES:
TYP. PROVIDE NUMBER AND SIZE OF DAMPER MODULES TO MATCH CONFIGURATION OF INSTALLATION.
PROVIDE A CONTINOUS JACK-SHAFT TO OPERATE DAMPERS IN MULTIPLE DAMPER MODULE INSTALLATIONS.
1. THIS NEW DAMPER IS TO REPLACE EXISTING DAMPER. CONTRACTOR SHALL CONFIRM ACTUAL DIMENSIONS PRIOR TO ORDERING.

AIR TERMINAL UNIT SCHEDULE - RETURN

MARK NUMBER	SERVES	NOMINAL AIRFLOW (CFM)	OCCUPIED MINIMUM AIRFLOW (CFM)	INLET DIA IN	STATIC * PRESS DROP IN WG	MAX SOUND POWER ** DISCHARGE dB	MAX SOUND POWER ** RADIATED dB	BASIS OF DESIGN	NOTE
VVR-802A	CONFERENCE - 802A	700	280	10	0.3	72	64	TITUS DESV	
VVR-808	OFFICE - 804, 806, 808	165	65	6	0.3	69	62	TITUS DESV	
VVR-811	HUDDLE - 811	170	70	6	0.3	69	62	TITUS DESV	
VVR-815	OFFICE - 809, 813, 815	340	135	8	0.3	72	60	TITUS DESV	
VVR-817	OPEN OFFICE - 817	750	200	10	0.3	72	64	TITUS DESV	
VVR-825	OPEN OFFICE - 825	750	200	12	0.3	76	64	TITUS DESV	
VVR-827	OFFICE - 827, 827.5, 831	390	155	8	0.3	72	60	TITUS DESV	
VV4-829	HUDDLE - 829	170	70	6	0.3	69	62	TITUS DESV	
VVR-843	ELECTRIC - 843	1080	430	12	0.5	76	64	TITUS DESV	
CVR-846	MENS,WOMANS,JANITOR-844,846,848	650	650	8	0.3	72	60	TITUS DESV	
VVR-850	CER - 850	440	175	8	0.3	72	60	TITUS DESV	
VVR-901A	CONFERENCE - 901A	450	180	8	0.3	72	60	TITUS DESV	
VVR-907	OFFICE - 903, 905, 907	420	170	8	0.3	72	60	TITUS DESV	
VVR-912	HUDDLE - 912	185	75	6	0.3	69	62	TITUS DESV	
VVR-916	OFFICE - 910, 914, 916	480	190	8	0.3	72	60	TITUS DESV	
VVR-918	OPEN OFFICE - 918	775	200	10	0.3	72	64	TITUS DESV	
VVR-926	OPEN OFFICE - 926	775	200	10	0.3	72	64	TITUS DESV	
VVR-928	OFFICE - 928, 932	330	130	8	0.3	72	60	TITUS DESV	
VVR-930	HUDDLE - 930	185	75	6	0.3	69	62	TITUS DESV	
VVR-949	ELECTRIC - 949	1200	480	12	0.5	76	64	TITUS DESV	
CVR-952	MENS,WOMANS,JANITOR-950,952,954	730	730	8	0.3	72	60	TITUS DESV	
VVR-955	CER - 955	455	180	8	0.3	72	60	TITUS DESV	
CVR-TR	TOILET RISER	4200	4200	24X16	0.3	82	74	TITUS DESV	
Totals:		15790	9240						

NOTES:

SCHEDULE NOTES:
- *STATIC PRESSURE DROP THRU THE BOX AND REHEAT COIL (IF USED) WITH THE AIR VALVE 100% OPEN AT THE SCHEDULED CFM.
- **SOUND POWER (dB re 10 -12 WATTS) IS FOR THE BASIC UNIT ONLY BASED UPON THE FOLLOWING CRITERIA.
  - A) NOMINAL AIRFLOW SHOWN
  - B) 2.0 INCHES W.G. STATIC PRESSURE DROP ACROSS THE AIR VALVE
  - C) AS MEASURED IN THE THIRD OCTAVE BAND (250 HZ)
- AIR TERMINAL UNIT PERFORMANCE EXCEEDING THE MAX SOUND POWER SHOWN WILL NOT BE ACCEPTED.
- SEE PLANS FOR ACTUAL MAXIMUM AIRFLOW SETTING REQUIRED.
- PROVIDE MULTI-PORT AIR FLOW SENSOR WITH EACH ASSEMBLY.
- HEATING CAPACITIES BASED ON NOMINAL AIR FLOW VALUES.

DIFFUSER, REGISTER, AND GRILLE SCHEDULE

MARK NUMB...	MAX AIRFL... CFM	FACE SIZE IN (WXH)	CONNECTION SIZE, IN (WXH OR DIA)	MAX STATIC PRESS DROP IN WG	MAX NC	MOUNTING LOCATION	FRAME TYPE	MATERIAL	FINISH	BASIS OF DESIGN	NOTES OF
D1	140	24X24	6 DIA	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS TMSA (ADJUSTABLE)	1
	250	24X24	8 DIA	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS TMSA (ADJUSTABLE)	1
	380	24X24	10 DIA	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS TMSA (ADJUSTABLE)	1
	550	24X24	12 DIA	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS TMSA (ADJUSTABLE)	1
	750	24X24	14 DIA	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS TMSA (ADJUSTABLE)	1
	860	24X24	15 DIA	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS TMSA (ADJUSTABLE)	1
D3	140	48	6 DIA	0.10	30	CEILING	SEE PLAN	ALUMINUM	WHITE	TITUS ML-39, 2-1" SLOT WITH MPI-39 PLENUM	
	165	48	8 DIA	0.10	30	CEILING	SEE PLAN	ALUMINUM	WHITE	TITUS ML-39, 2-1" SLOT WITH MPI-39 PLENUM	
	180	48	10 DIA	0.10	30	CEILING	SEE PLAN	ALUMINUM	WHITE	TITUS ML-39, 2-1" SLOT WITH MPI-39 PLENUM	
	250	48	12 DIA	0.10	30	CEILING	SEE PLAN	ALUMINUM	WHITE	TITUS ML-39, 2-1" SLOT WITH MPI-39 PLENUM	
D4	400	24x48	10	.10	30	CEILING	SEE PLAN	STEEL	WHITE	TITUS TRITEC	3
	700	24x48	12	.10	30	CEILING	SEE PLAN	STEEL	WHITE	TITUS TRITEC	3
WS1	140	6X6	6X6	0.10	30	SIDEWALL	SURFACE	STEEL	WHITE	TITUS 300RS	2
	240	10X6	10X6	0.10	30	SIDEWALL	SURFACE	STEEL	WHITE	TITUS 300RS	2
	400	12X8	12X8	0.10	30	SIDEWALL	SURFACE	STEEL	WHITE	TITUS 300RS	2
	500	12X10	12X10	0.10	30	SIDEWALL	SURFACE	STEEL	WHITE	TITUS 300RS	2
	610	12X12	12X12	0.10	30	SIDEWALL	SURFACE	STEEL	WHITE	TITUS 300RS	2
	950	18x12	18x12	0.10	30	SIDEWALL	SURFACE	STEEL	WHITE	TITUS 300RS	2
R1, E1	100	24X24	6 DIA	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS PAR	1, 4
	180	24X24	8 DIA	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS PAR	1, 4
	280	24X24	10 DIA	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS PAR	1, 4
	400	24X24	12 DIA	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS PAR	1, 4
	575	24X24	14 DIA	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS PAR	1, 4
	700	24X24	16 DIA	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS PAR	1, 4
	1700	24X24	22X22	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS PAR	1, 4
WR1,...	140	6X6	6X6	0.10	30	SIDEWALL	SURFACE	STEEL	WHITE	TITUS 350RL	5
	240	10X6	10X6	0.10	30	SIDEWALL	SURFACE	STEEL	WHITE	TITUS 350RL	5
	400	12X8	12X8	0.10	30	SIDEWALL	SURFACE	STEEL	WHITE	TITUS 350RL	5
	500	12x10	12x10	0.10	30	SIDEWALL	SURFACE	STEEL	WHITE	TITUS 350RL	5
	610	12x12	12x12	0.10	30	SIDEWALL	SURFACE	STEEL	WHITE	TITUS 350RL	5
T1			NECK SIZE...			CEILING	LAY-IN	STEEL	WHITE	TITUS PAR	1, 4
R2, E2	100	12X12	6 DIA	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS PAR	1, 4
	180	12X12	8 DIA	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS PAR	1, 4
	350	12X12	10X10	0.10	30	CEILING	LAY-IN	STEEL	WHITE	TITUS PAR	1, 4

NOTES:
SEE PLANS FOR ACTUAL AIRFLOW.
COORDINATE FRAME TYPE (LAYIN OR SURFACE) WITH ARCHITECTURAL REFLECTED CEILING PLAN. PROVIDE END BORDERS FOR SURFACE MOUNTED...

1 PROVIDE RAPID MOUNT FRAME FOR ALL GYPBOARD AND HARD SURFACE CEILINGS.
2 ADJUSTABLE DOUBLE DEFLECTION GRILLE WITH 3/4 IN BLADE SPACING AND FRONT BLADES PARALLEL TO THE HEIGHT (H) DIMENSION.
3 PERFORATED RADIAL FLOW DIFFUSER. PROVIDE WITH 2-WAY THROW PATTERN.
4 PERFORATED GRILLE.
5 SINGLE DEFLECTION GRILLE WITH 3/4 IN BLADE SPACING AND FIXED BLADES SET AT 35 DEG AND PARALLEL TO THE WIDTH (W) DIMENSION.

PUMP SCHEDULE

MARK NUMBER	LOCATION	SERVES	CONSTANT/ VARIABLE SPEED	TYPE	NOMINAL FLOW GPM	OPERATING FLOW GPM	TOTAL HEAD FT WG	MIN EFF %	MOT... BHP	MOTOR DATA HP	MOTOR DATA RPM	MOTOR DATA V/PH	E-POWER Y/N	BASIS OF DESIGN	NOTE
RHP-1	1ST FL MECH RM	REHEAT HW	VARIABLE	BASE MOUNTED	200	200	50	73	3.46	5.0	1750	460/3	Y	B&G M/N 1510	1
RHP-2	1ST FL MECH RM	REHEAT HW	VARIABLE	BASE MOUNTED	200	200	50	73	3.46	5.0	1750	460/3	Y	B&G M/N 1510	1
PHP-1	1ST FL MECH RM	PREHEAT	VARIABLE	BASE MOUNTED	660	660	60	82	12.2	15	1750	460/3	Y	B&G M/N 1510	1,2
PHP-2	1ST FL MECH RM	PREHEAT	VARIABLE	BASE MOUNTED	660	660	60	82	12.2	15	1750	460/3	Y	B&G M/N 1510	1,2
HRP-1	ROOFTOP MECH RM	HEAT RECOVERY	VARIABLE	BASE MOUNTED	1300	1300	70	82	32.9	40	1750	460/3	N	B&G VSX-VSC	1,3

NOTES:
1. PROVIDE WITH VFD AND PREMIUM EFFICIENCY MOTORS
2. PREHEAT PUMPS SHALL BE SELECTED TO OPERATE WITH 30% ETHYLENE GLYCOL MIXTURE.
3. HEAT RECOVERY PUMP SHALL BE SELECTED TO OPERATE WITH 30% ETHYLENE GLYCOL MIXTURE.

FAN COIL UNIT SCHEDULE

MARK NUMBER	UNIT CONFIG	UNIT SERVES	NOMINAL AIRFLOW CFM	EXT STATIC PRESS IN WG	HOT WATER COIL DATA TOT CAP MBH	HOT WATER COIL DATA FLOW GPM	HOT WATER COIL DATA EWT DEG F	HOT WATER COIL DATA MAX WPD FT WG	HOT WATER COIL DATA EAT DB/WB DEG F	CHILLED WATER COIL DATA TOT CAP MBH	CHILLED WATER COIL DATA SENS CAP MBH	CHILLED WATER COIL DATA FLOW GPM	CHILLED WATER COIL DATA EWT DEG F	CHILLED WATER COIL DATA LWT DEG F	CHILLED WATER COIL DATA MAX WPD FT WG	CHILLED WATER COIL DATA EAT DB/WB DEG F	CHILLED WATER COIL DATA LAT DB/WB DEG F	MOTOR DATA HP	MOTOR DATA #	MOTOR DATA V/PH	E-POW... Y/N	BASIS OF DESIGN	NOTE
FCU-1	CASSETTE	FREEZER ROOM	970	0.25	-	-	-	-	-	30.6	23.1	6.1	45	55.0	10.0	80/67	56/55	1/8	2		N	CARRIER 42WKN33	1,2,3,4,5
FCU-2	CASSETTE	FREEZER ROOM	1160	0.25	-	-	-	-	-	35.9	26.9	7.2	45	55.0	10.0	80/67	56/55	1/8	2		N	CARRIER 42WKN36	1,2,3,4,5

NOTES:
1. UNITS SHALL BE COOLING ONLY UNITS
2. DISCONNECT PROVIDED BY ELECTRICAL.
3. NOMINAL AIRFLOW BASED ON HIGH FAN SPEED
4. PROVIDE UNITS WITH FILTER RACK AND MERV 8 DISPOSABLE FILTERS
5. THERE ARE MULTIPLE UNITS WITH SAME EQUIPMENT DESIGNATION. SEE PLANS FOR QUANTITIES REQURIED.

COALESCING AIR/DIRT SEPARATOR SCHEDULE

MARK NUMBER	LOCATION	SYSTEM SERVED	INLET SIZE (IN.)	OUTLET SIZE (IN.)	MAXIMUM PRESS DROP (FT H20)	FLOW (GPM)	BASIS OF DESIGN	NOTE
AS-1	1ST FL MECH RM	CHILLED WATER	6	6	1.5	510	BELL & GOSSETT MODEL CRS-6F	
AS-2	1ST FL MECH RM	HOT WATER	6	6	1.5	400	BELL & GOSSETT MODEL CRS-6F	

NOTES:

CONDENSATE RETURN UNIT SCHEDULE

UNIT NUMBER	TYPE	MINIMUM CAPACITY (LBS/HR)	PUMP (EACH) FLOW (GPM)	PUMP (EACH) DISCHARGE PRESS. (PSIG)	PUMP (EACH) RPM	MOTOR (EACH) MAXIM... BHP	MOTOR (EACH) HP	ELECTRICAL @ 60 Hz VOLTS	ELECTRICAL @ 60 Hz PHASE	RECEIVER DATA CAPACITY (GALLONS)	RECEIVER DATA INLET DIA. SIZE (IN.)	RECEIVER DATA INLET HEIGHT (IN.)	BASIS OF DESIGN	REMARKS
CRU-1	DUPLEX	7,500	30	20	3500	-	0.75	460	3	36	3	13	DOMESTIC PUMP SERIES CB	1, 2

REMARKS:
1 PROVIDE WITH DISCONNECT SWITCH.
2 PROVIDE WITH OPTIONS AS LISTED IN SPECIFICATION.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	ADDENDUM #1
2	2018-04-12	ADDENDUM #2
3	2018-04-25	ADDENDUM #4

Project Number 10062179
Original Issue 05/18/16 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER 3-28-18

Sheet Name
MECHANICAL SCHEDULES

Sheet Number
M-702

Project Status

4/26/2018 3:55:15 PM

C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt

PRIMARY ELEMENT SYMBOLOGY	
SYMBOL	REMARKS
	ORIFICE PLATE
	PITOT TUBE OR ANNUBAR
	VORTEX FLOWMETER
M	MAGNETIC FLOWMETER
FT	MASS DISPERSION FLOWMETER
	FLUME
	WEIR
	PROPELLER OR TURBINE METER
	VENTURI TUBE
FS	FLOAT SWITCH
TE	TEMPERATURE ELEMENT WITH THERMOWELL
	STEAM PIGTAIL SYPHON

LINE TYPES	
LINE TYPE	REMARKS
	MAIN PROCESS LINE
	SECONDARY PROCESS LINE
	AUXILIARY PROCESS LINE
	DIRECTION OF FLOW
	PNEUMATIC SIGNAL
	ELECTRICAL SIGNAL
	HYDRAULIC SIGNAL
	PHYSICAL DATA LINK OR LOGIC DATA LINK
	SIGNAL CONNECTION
	CROSSOVER - NO CONNECTION
	REFERENCE HEADER
	RS-485 TYPE COMMUNICATION CABLE
	ETHERNET CABLE

INSTRUMENT SYMBOLOGY	
LINE TYPE	REMARKS
	FIELD INSTRUMENTATION
	INSTRUMENT FUNCTIONS SHARING COMMON HOUSING
	HARDWIRE INTERLOCK AS DEFINED IN CONTROL DIAGRAM OR IN SPECIFICATIONS
	RTU FUNCTION
	PHYSICAL INPUT / OUTPUT CONNECTION TOP LINE: SYSTEM TYPE-BMS, FIRE, SEC, ECT. BLANK=BMS BOTTOM LINE: INPUT/OUTPUT TYPE- AO, AI, DO, DI, COM, ECT.
	PILOT LIGHT
	COMBINATION HORN/STROBE

CONTROLS SYMBOLS AND ABBREVIATIONS			
ABBREV.	3D SYMBOL	2 SYMBOL	REMARKS
			FAN
		C / C	COOLING COIL
		H / C	HEATING COIL
		P H / C	PREHEAT COIL
		R H / C	REHEAT COIL
			FILTER
			HUMIDIFIER
			DAMPER
			UV LIGHTS
		FLP	TERMINAL BOX
		FC	VENTURI STYLE AIR VALVE
			PUMP
		STR -	STARTER
			BACKDRAFT DAMPER
			OPEN CONTACT
			CLOSED CONTACT
			POWER OUTLET
			ETHERNET DATA OUTLET
		VFD -	VARIABLE FREQUENCY DRIVE
			FAN ARRAY
			LIGHT SENSOR
			BUBBLE TIGHT DAMPER
			OCCUPANCY SENSOR

CROSS REFERENCE SYMBOLOGY
CONTINUATION ON DRAWING (DWG #), (CONT #). → SYSTEM CONT # → DESCRIPTION DESCRIPTION DWG #
SYSTEM CONT # → DESCRIPTION DESCRIPTION DWG # → CONTINUATION ON DRAWING (DWG #), (CONT #).

ACTUATOR SYMBOLOGY	
SYMBOL	REMARKS
M	M = MOTOR
	ELECTRIC ACTUATOR
	PNEUMATIC ACTUATOR
	PNEUMATIC ACTUATOR WITH POSITIONER
	FLOAT OPERATOR
	SPRING OPPOSED SINGLE ACTING PNEUMATIC CYLINDER
	DOUBLE ACTING PNEUMATIC CYLINDER
	HIGH SPEED ELECTRIC ACTUATOR

CONTROLS ABBREVIATIONS			
ABBR.	REMARKS	ABBR.	REMARKS
AC	ELECTRIC SUPPLY, 120VAC	I/P	CURRENT TO PNEUMATIC
AFF	ABOVE FINISHED FLOOR	IP	INTERNET PROTOCOL
AI	ANALOG INPUT	IPTV	INTERNET PROTOCAL AND TELEVISION
AO	ANALOG OUTPUT	LOR	LOCAL-OFF-REMOTE
AMS	AIRFLOW MEASURING STATION	MA	MAKE-UP AIR
ASC	APPLICATION SPECIFIC CONTROLLER	MKT	MEAN KINETIC TEMPERATURE
BAS	BUILDING AUTOMATION SYSTEM	NC	NORMALLY CLOSED
CA	COLD AIR	NO	NORMALLY OPEN
CALC	CALCULATION	NOX	NITROGEN OXIDE (ANALYZER MODIFIER)
CL2	CHLORINE (ANALYZER MODIFIER)	O2	OXYGEN (ANALYZER MODIFIER)
CO	CARBON MONOXIDE (ANALYZER MODIFIER)	OA	OUTDOOR AIR
CO2	CARBON DIOXIDE (ANALYZER MODIFIER)	OR	OVERRIDE
COM	COMMUNICATION PROTOCOL	PB	PUSHBUTTON
COMB	COMBUSTIBLES (ANALYZER MODIFIER)	pH	pH (ANALYZER MODIFIER)
COND	CONDUCTIVITY (ANALYZER MODIFIER)	PID	PID CONTROL
DEN	DENSITY (ANALYZER MODIFIER)	P&ID	PROCESS AND INSTRUMENTATION DIAGRAM
DI	DIGITAL INPUT	PRV	PRESSURE REDUCING VALVE
DO	DIGITAL OUTPUT	PSC	PROGRAMMABLE SYSTEM CONTROLLER
DP	DEWPOINT	PW	POTABLE WATER
DT	DATA - ETHERNET	R	RELAY
DW	DOMESTIC WATER	RA	RETURN AIR
E/P	VOLTAGE TO PNEUMATIC	RS	REFRIGERANT SENSOR
EA	EXHAUST AIR	RV	RELIEF VALVE
ETSW	ETHERNET SWITCH	SC	SUPERVISORY CONTROLLER
FAS	FIRE ALARM SYSTEM	SME	SMOKE EXHAUST
F/O	FIBER-OPTIC	SS	SUSPENDED SOLIDS (ANALYZER MODIFIER)
FC	FAILED CLOSED	STPT	SETPOINT
FDBK	FEEDBACK	STR	STARTER
FLP	FAIL LAST POSITION	SW	SWITCH
FO	FAILED OPEN	TDR	TIME DELAY RELAY
GPPC	GENERAL PURPOSE PROGRAMMABLE CONTROLLER	TOT	TOTALIZE
H2S	HYDROGEN SULFIDE (ANALYZER MODIFIER)	TOU	TIME OF USE
HF	HEPA FILTER	TURB	TURBIDITY (ANALYZER MODIFIER)
HI	HARDWIRE INTERLOCK	TYP	TYPICAL
HOA	HAND OFF AUTO	UPS	UNINTERRUPTED POWER SUPPLY
IA	INSTRUMENT AIR	VFD	VARIABLE FREQUENCY DRIVE
INST	INSTANTANEOUS	VTA	VENT TO ATMOSPHERE
I/O	INPUT/OUTPUT	WAN	WIDE AREA NETWORK
		XFMR	TRANSFORMER

INSTRUMENT IDENTIFICATION LETTERS					
	FIRST LETTER		SUCCEEDING LETTERS		
	MEASURED OR INITIATING VARIABLE	MODIFIER	READOUT OR PASSIVE FUNCTION	OUTPUT FUNCTIO N	MODIFIER
A	ANALYSIS		ALARM		
B	BURNER, COMBUSTION, BAROMETRIC		USERS CHOICE	USERS CHOICE	BUTTON
C	USERS CHOICE			CONTROL	CLOSED
D	DENSITY	DIFFERENTIAL			DETECTOR, DIRECTION
E	VOLTAGE		SENSOR (PRIMARY ELEMENT)		
F	FLOW RATE	RATIO (FRACTION)			
G	USER'S CHOICE		GLASS, VIEWING DEVICE		
H	HAND				HIGH
I	CURRENT (ELECTRICAL)		INDICATE		
J	POWER	SCAN			
K	TIME, TIME SCHEDULE	TIME RATE OF CHANGE		CONTROL STATION	
L	LEVEL		LIGHT		LOW
M	MOISTURE	MOMENTARY			MIDDLE, INTERMEDIATE
N	USER'S CHOICE		USER'S CHOICE	USER'S CHOICE	USER'S CHOICE
O	USER'S CHOICE		ORIFICE, RESTRICTION		OPENED
P	PRESSURE, VACUUM PUSH, PRECIPITATION		POINT (TEST) CONNECTION		PROBE
Q	QUANTITY		INTEGRATE, TOTALIZE		
R	RADIATION		RECORD	RELAY	
S	SPEED, FREQUENCY SOLENOID	SAFETY		SWITCH	
T	TEMPERATURE			TRANSMIT	
U	MULTIVARIABLE		MULTIFUNCTION	MULTIFUNCTION	MULTIFUNCTION
V	VIBRATION			VALVE, DAMPER LOUVER	
W	WEIGHT, FORCE, WIND		WELL		
X	UNCLASSIFIED	X AXIS	UNCLASSIFIED	UNCLASSIFIED	UNCLASSIFIED
Y	EVENT, STATE OR PRESENCE	Y AXIS		RELAY, COMPUTE, CONVERT	
Z	POSITION, DIMENSION	Z AXIS		DRIVER, ACTUATOR, UNCLASSIFIED FINAL CONTROL ELEMENT	

GENERAL NOTES
1. THIS IS A STANDARD INSTRUMENTATION SYMBOLS AND ABBREVIATION SHEET. 2. ABBREVIATIONS DOES NOT IMPLY ALL SYMBOLS AND ABBREVIATIONS HAVE BEEN USED ON THIS PROJECT. 3. SEE GENERAL SYMBOL DRAWING FOR VALVING AND PIPING SYMBOLS. 4. SEE PROJECT EQUIPMENT AND PIPING SYSTEMS DRAWING FOR SYMBOLS AND ABBREVIATIONS SPECIFIC TO THE PROJECT. 5. DAMPER SYMBOL IS GENERIC AND DOES NOT DELINEATE PARALLEL VERSUS OPPOSED BLADE. REFER TO DIVISION 23 SPECIFICATIONS FOR REQUIREMENTS.

1 BAS SYMBOLS AND ABBREVIATIONS
NTS

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 01/25/18 -

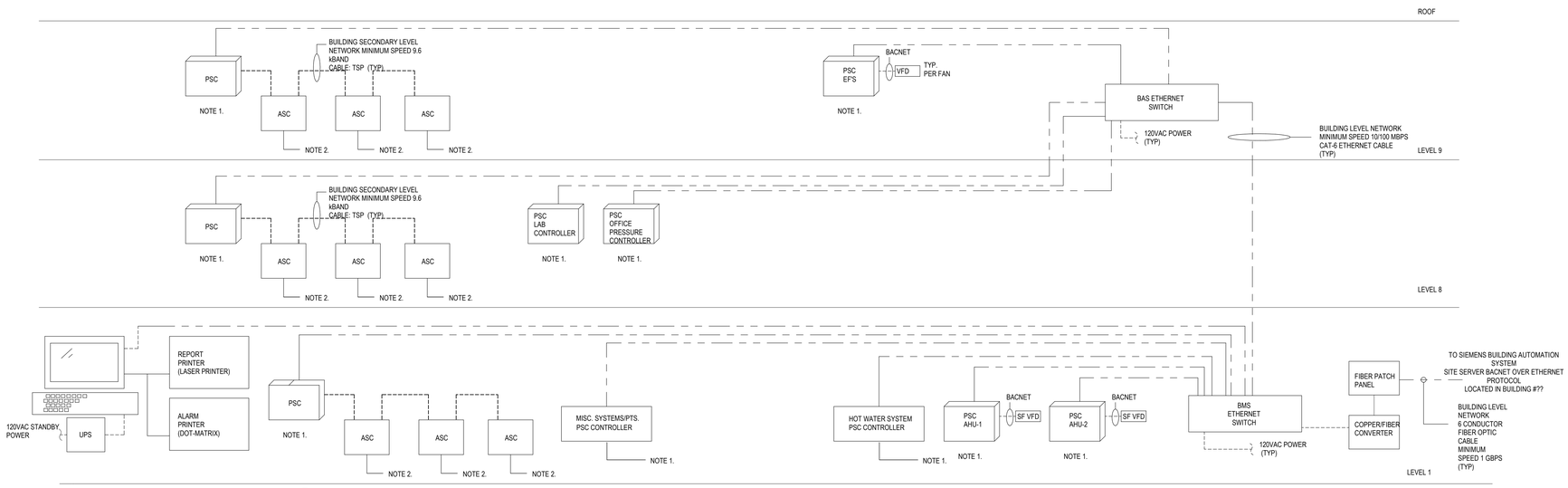
ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER 3-28-18

Sheet Name
BUILDING AUTOMATION SYSTEM (BAS) SYMBOLS AND ABBREVIATIONS

Sheet Number
M-801

Project Status

3/28/2018 2:39:41 PM
C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt



1 SYSTEM ARCHITECTURE DIAGRAM

NTS

NOTES:

1. 120 VOLT POWER SOURCE FOR ALL DEVICES SHOWN BY DIV. 26.
2. 24 VOLT WIRING TO CONTROLLERS BY 25.
3. EACH PANEL TO HAVE AN ETHERNET CONNECTION ON THE OUTSIDE OF THE PANEL FOR A LAPTOP CONNECTION BY FACILITY PERSONNEL.
4. EACH BAS PANEL AND ETHERNET SWITCH TO HAVE A DEDICATED UPS PROVIDED BY 25.
5. ONLY A REPRESENTATIVE SAMPLE OF CONTROLLERS ARE SHOWN. COMPLETE SYSTEM ARCHITECTURE TO BE PROVIDED BY DIVISION 25.
6. NETWORK WIRING IS DIAGRAMMATICAL. ACTUAL ROUTING DIAGRAM PROVIDED BY DIVISION 25.
7. ALL EQUIPMENT AND WIRING BY DIVISION 25, UNLESS NOTED OTHERWISE.
8. NETWORK CONFIGURATION SHALL CONFORM WITH ALL PERFORMANCE REQUIREMENTS IN SECTION 25.
9. PROVIDE LOCKABLE ENCLOSURES FOR ALL PSCs AND NETWORK EQUIPMENT.
10. ALL COMMUNICATION CABLE OUTSIDE OR BETWEEN BUILDINGS SHALL BE FIBER OPTIC.
11. REFER TO DRAWING M-801 FOR SYMBOLS AND ABBREVIATIONS.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 01/26/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name

BAS-SYSTEM ARCHITECTURE DIAGRAM

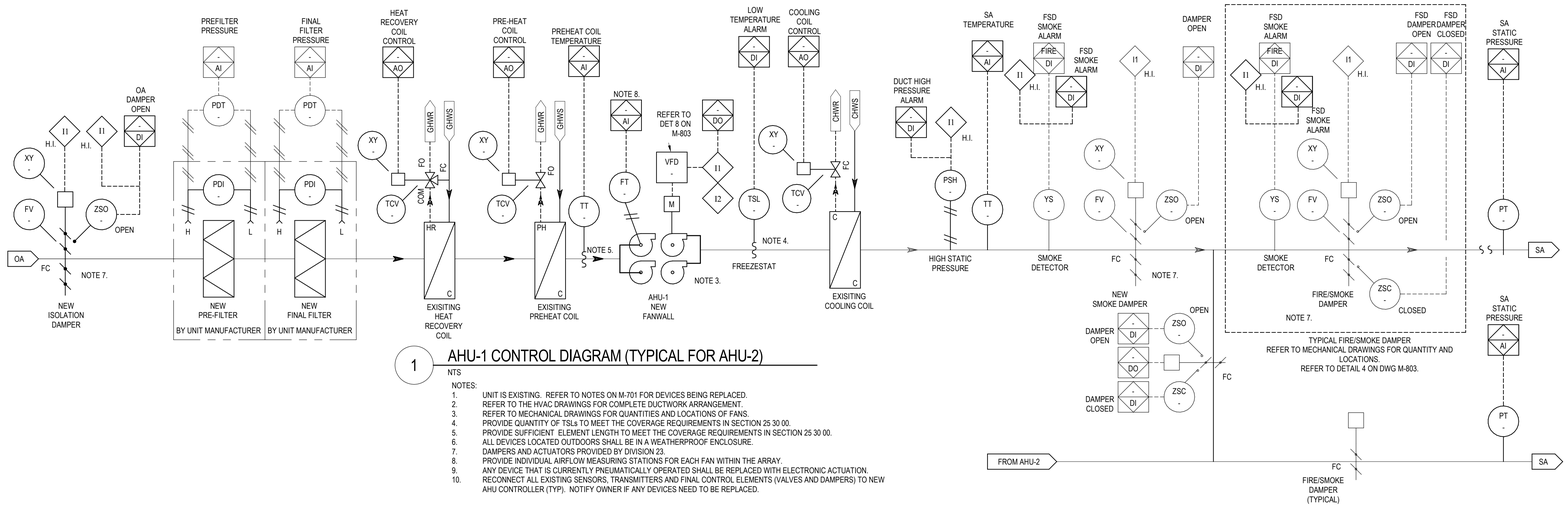
Sheet Number

M-802

Project Status

3/28/2018 2:39:42 PM

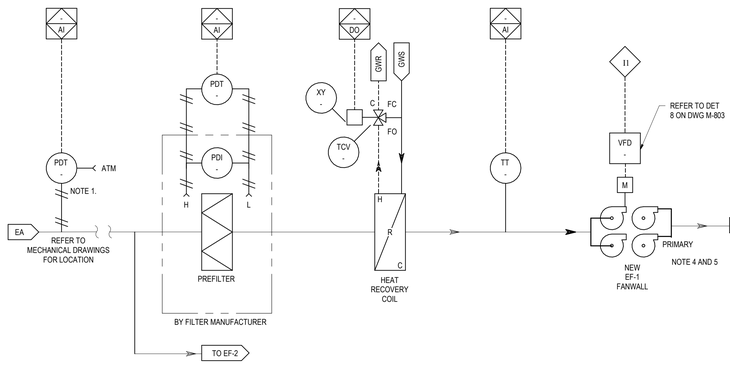
C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt



1 AHU-1 CONTROL DIAGRAM (TYPICAL FOR AHU-2)

NTS

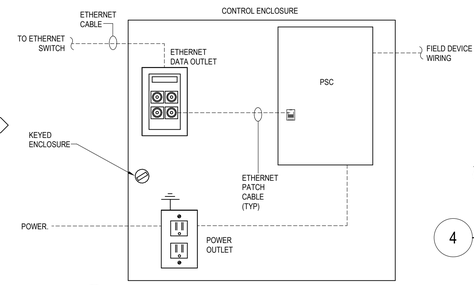
NOTES:
1. UNIT IS EXISTING. REFER TO NOTES ON M-701 FOR DEVICES BEING REPLACED.
2. REFER TO THE HVAC DRAWINGS FOR COMPLETE DUCTWORK ARRANGEMENT.
3. REFER TO MECHANICAL DRAWINGS FOR QUANTITIES AND LOCATIONS OF FANS.
4. PROVIDE QUANTITY OF TSLs TO MEET THE COVERAGE REQUIREMENTS IN SECTION 25 30 00.
5. PROVIDE SUFFICIENT ELEMENT LENGTH TO MEET THE COVERAGE REQUIREMENTS IN SECTION 25 30 00.
6. ALL DEVICES LOCATED OUTDOORS SHALL BE IN A WEATHERPROOF ENCLOSURE.
7. DAMPERS AND ACTUATORS PROVIDED BY DIVISION 23.
8. PROVIDE INDIVIDUAL AIRFLOW MEASURING STATIONS FOR EACH FAN WITHIN THE ARRAY.
9. ANY DEVICE THAT IS CURRENTLY PNEUMATICALLY OPERATED SHALL BE REPLACED WITH ELECTRONIC ACTUATION.
10. RECONNECT ALL EXISTING SENSORS, TRANSMITTERS AND FINAL CONTROL ELEMENTS (VALVES AND DAMPERS) TO NEW AHU CONTROLLER (TYP). NOTIFY OWNER IF ANY DEVICES NEED TO BE REPLACED.



2 EXHAUST FAN EF-1 W/HRC (TYPICAL FOR EF-2)

NTS

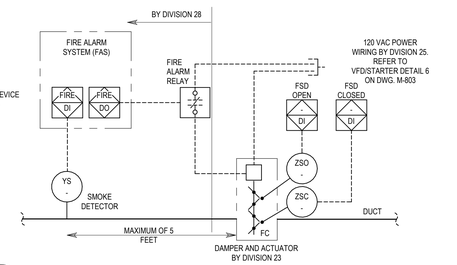
NOTES:
1. SENSOR SHALL BE HARDWIRED TO PSC CONTROLLING EXHAUST FANS.
2. INSTALL ALL SENSORS AND DEVICES IN NEMA 4 TYPE ENCLOSURES, IF INSTALLED OUTDOORS.
3. ANY DEVICE THAT IS CURRENTLY PNEUMATICALLY OPERATED SHALL BE REPLACED WITH ELECTRONIC ACTUATION.
4. REFER TO MECHANICAL DRAWINGS FOR QUANTITIES AND LOCATIONS OF FANS.
5. EACH FAN IN THE FAN ARRAY SHALL HAVE A BACKDRAFT DAMPER.



3 TYPICAL CONTROL ENCLOSURE FOR PSC AND SCs

NTS

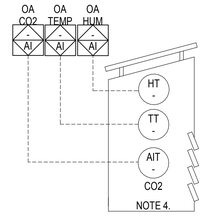
NOTES:
1. BAS CONTRACTOR TO COORDINATE LOCATION OF ALL ENCLOSURES WITH ALL OTHER TRADES AND GOVERNMENT PRIOR TO INSTALLATION.



4 FIRE-SMOKE DAMPER CONTROL-INDIVIDUAL CONTROL

AS NOTED

NOTES:
1. DETAIL APPLIES TO ALL SMOKE AND COMBINATION FIRE/SMOKE DAMPERS.
2. FIRE ALARM RELAY SHALL BE MOUNTED LOCALLY NEAR THE DAMPER BEING CONTROLLED.
3. DAMPER AND ACTUATOR SHALL BE PROVIDED AS A UL LISTED ASSEMBLY. ACTUATOR SHALL ACCEPT 120VAC POWER.
4. COORDINATE TERMINATIONS WITH DIVISION 28 AND 23.
5. SMOKE DAMPERS SHALL BE POWERED FROM STANDBY/UPS, UNLESS POWERED FROM A FAN VFD OR STARTER.
6. REFER TO MECHANICAL DRAWINGS FOR QUANTITIES AND LOCATIONS.
7. DETAIL APPLIES TO ALL SMOKE AND COMBINATION SMOKE DAMPERS UNLESS NOTED OTHERWISE ON THE SPECIFIC SYSTEM CONTROL DIAGRAMS.
8. LIMIT SWITCHES PROVIDED BY DIVISION 25.



5 TYPICAL WEATHER STATION

AS NOTED

NOTES:
1. PROVIDE 4-20MA INPUTS TO THE BAS FOR EACH SENSOR. THE USE OF A COMMUNICATION INTERFACE IS UNACCEPTABLE.
2. COORDINATE LOCATION WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
3. WEATHER SHELTER SHALL BE FREE STANDING OR WALL MOUNTED.
4. REFER TO MECHANICAL DRAWINGS FOR LOCATION.

GENERAL NOTES:
1. REFER TO DRAWING M-801 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO SPECIFICATION 25 50 00 FOR SEQUENCE OF OPERATIONS.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 01/26/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name

BAS-AIRFLOW DIAGRAMS

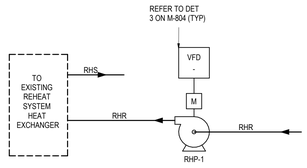
Sheet Number

M-803

Project Status

3/28/2018 2:39:44 PM

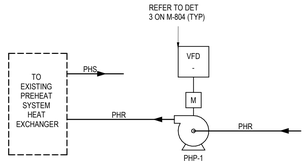
C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt



1 REHEAT SYSTEM PUMP PHP-1 CONTROL

NTS

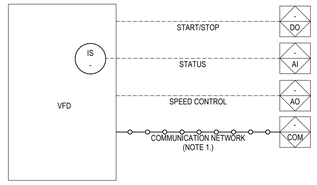
NOTES:
1. REHEAT SYSTEM IS EXISTING. EXISTING PUMPS ARE BEING REMOVED AND REPLACED WITH NEW PUMPS.
2. BAS SHALL REMOVE EXISTING PUMP CONTROLS, AND REWIRE NEW PUMPS WITH NEW VFD'S TO THE EXISTING CONTROLLER. BAS SHALL REPROGRAM THE SYSTEM FOR THE NEW PUMPS.
3. REFER TO THE HVAC DRAWINGS FOR COMPLETE PIPING ARRANGEMENT.
4. ALL POINTS SHALL BE WIRED DIRECTLY BACK TO THE SAME PSC CONTROLLER.
5. TYPICAL FOR RHP-2.



2 PREHEAT SYSTEM PUMP PHP-1 CONTROL

NTS

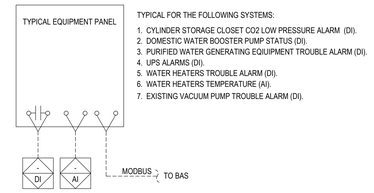
NOTES:
1. PREHEAT SYSTEM IS EXISTING. EXISTING PUMPS ARE BEING REMOVED AND REPLACED WITH NEW PUMPS.
2. BAS SHALL REMOVE EXISTING PUMP CONTROLS, AND REWIRE NEW PUMPS WITH NEW VFD'S TO THE EXISTING CONTROLLER. BAS SHALL REPROGRAM THE SYSTEM FOR THE NEW PUMPS.
3. REFER TO THE HVAC DRAWINGS FOR COMPLETE PIPING ARRANGEMENT.
4. ALL POINTS SHALL BE WIRED DIRECTLY BACK TO THE SAME PSC CONTROLLER.
5. TYPICAL FOR PHP-2.



3 TYPICAL PUMP VFD

NTS

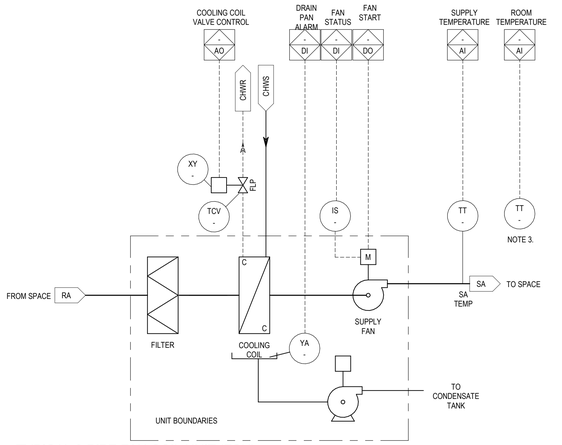
NOTE:
1. AT A MINIMUM THE BAS SHALL MONITOR THE FOLLOWING POINTS IN THE VFD: KWH OUTPUT, HOA OUT OF "AUTO" POSITION, DRIVE FAULT, SPEED FEEDBACK.



TYPICAL FOR THE FOLLOWING SYSTEMS:
1. CYLINDER STORAGE CLOSET CO2 LOW PRESSURE ALARM (DI).
2. DOMESTIC WATER BOOSTER PUMP STATUS (DI).
3. PURIFIED WATER GENERATING EQUIPMENT TROUBLE ALARM (DI).
4. UPS ALARMS (DI).
5. WATER HEATERS TROUBLE ALARM (DI).
6. WATER HEATERS TEMPERATURE (AI).
7. EXISTING VACUUM PUMP TROUBLE ALARM (DI).

4 MISCELLANEOUS POINTS

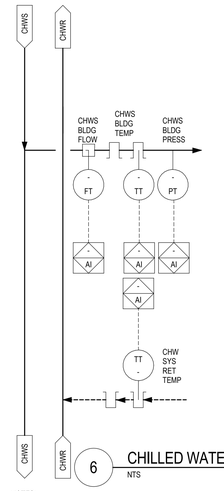
AS NOTED



5 TYPICAL 2-PIPE FAN COIL UNIT (FCU)

NTS

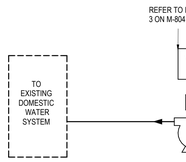
NOTES:
1. REFER TO THE HVAC DRAWINGS FOR COMPLETE DUCTWORK ARRANGEMENT.
2. REFER TO MECHANICAL DRAWINGS FOR QUANTITIES AND LOCATIONS OF FCUs.
3. COORDINATE ALL WALL MOUNTED DEVICES WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
4. WALL MOUNTED DEVICES SHALL BE ADA COMPLIANT.



6 CHILLED WATER MONITORING

NTS

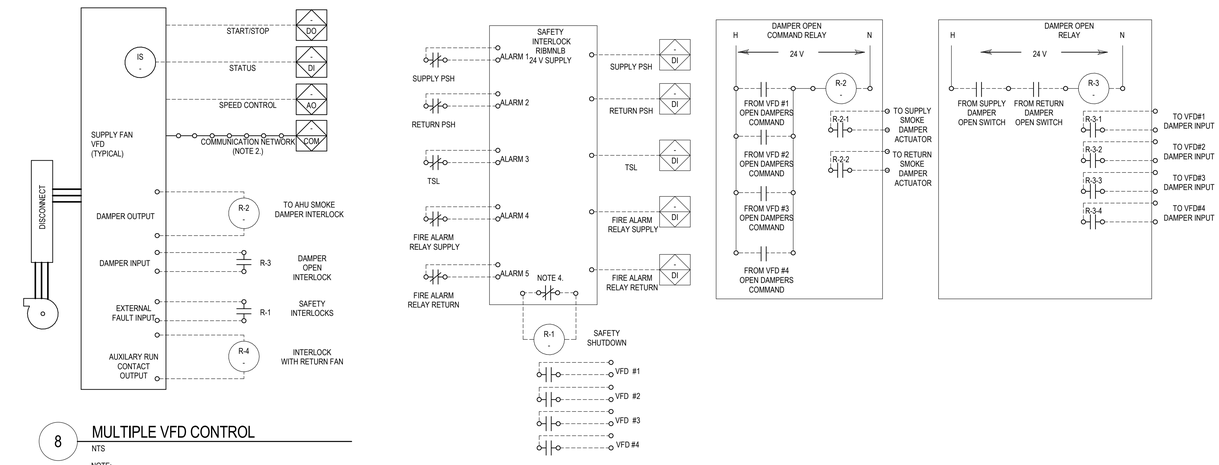
NOTES:
1. REFER TO THE HVAC DRAWINGS FOR COMPLETE PIPING ARRANGEMENT.
2. ALL POINTS SHALL BE WIRED DIRECTLY BACK TO THE SAME GPPC CONTROLLER.
3. PROVIDE FLOW STRAIGHTENERS IF THERE IS NOT SUFFICIENT STRAIGHT PIPE UPSTREAM AND DOWNSTREAM OF FLOW SENSOR.
4. REFER TO MECHANICAL DRAWINGS FOR QUANTITIES AND LOCATIONS FOR PHASE 1 AND 2.



7 DOMESTIC WATER SYSTEM PUMP CONTROL

NTS

NOTES:
1. DOMESTIC WATER SYSTEM IS EXISTING. EXISTING PUMP IS BEING REMOVED AND REPLACED WITH NEW PUMP.
2. BAS SHALL REMOVE EXISTING PUMP CONTROLS, AND REWIRE NEW PUMP WITH NEW VFD TO THE EXISTING CONTROLLER. BAS SHALL REPROGRAM THE SYSTEM FOR THE NEW PUMP.
3. REFER TO THE HVAC DRAWINGS FOR COMPLETE PIPING ARRANGEMENT.
4. ALL POINTS SHALL BE WIRED DIRECTLY BACK TO THE SAME PSC CONTROLLER.



8 MULTIPLE VFD CONTROL

NTS

NOTE:
1. ALL CONTACTS SHOWN IN THE DE-ENERGIZED STATE.
2. AT A MINIMUM THE BAS SHALL MONITOR THE FOLLOWING POINTS IN THE VFD: KWH OUTPUT, HOA OUT OF "AUTO" POSITION, DRIVE FAULT, SPEED FEEDBACK, BYPASS MODE.
3. REFER TO AHU SCHEDULE FOR QUANTITY OF FANS IN THE FAN ARRAY.
4. CONTACT TO OPEN ON ALARM.

GENERAL NOTES:
1. REFER TO DRAWING M-801 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO SPECIFICATION 25 90 00 FOR SEQUENCE OF OPERATIONS.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

Project Manager	PROJECT MANAGER
Project Designer	DESIGNER
Project Architect	ARCHITECT
Landscape Architect	LANDSCAPE ARCHITECT
Civil Engineer	CIVIL ENGINEER
Structural Engineer	STRUCTURAL ENGINEER
Mechanical Engineer	MECHANICAL ENGINEER
Electrical Engineer	ELECTRICAL ENGINEER
Interior Designer	INTERIOR DESIGNER
Equipment Planner	EQUIPMENT PLANNER
Wayfinding	WAYFINDING
Drawn By	RTS

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTURCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	01/26/18 -

ALABAMA LICENSED No. 33074 PROFESSIONAL ENGINEER
3-28-18

Sheet Name

BAS-MISCELLANEOUS CONTROLS DIAGRAMS

Scale

As indicated

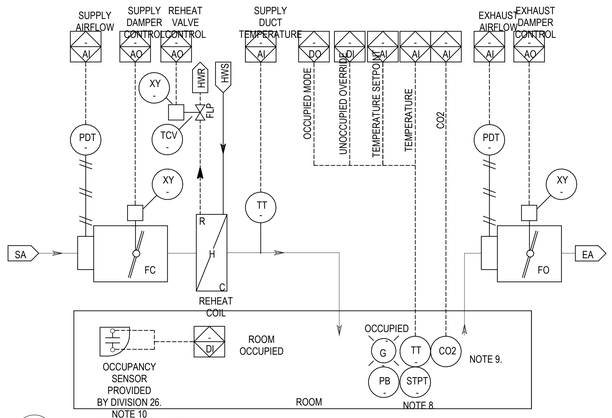
Sheet Number

M-804

Project Status

3/28/2018 2:39:46 PM

C:\rvt\2017\10062179-M-CENTRAL_AKONOP.rvt

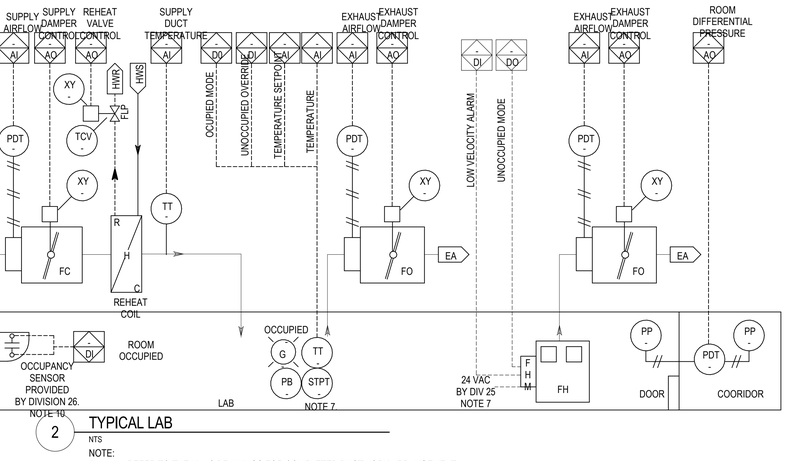


1 VAV ROOM CONTROL

NTS

NOTE:

1. REFER TO THE HVAC DRAWINGS FOR COMPLETER DUCTWORK ARRANGEMENT.
2. REFER TO PLAN DRAWINGS FOR ROOMS REQUIRING CO2 SENSING.
3. ALL POINTS SHALL BE WIRED DIRECTLY BACK TO THE SAME ROOM CONTROLLER, UNLESS INDICATED OTHERWISE.
4. REFER TO MECHANICAL DRAWINGS FOR QUANTITIES AND LOCATIONS OF TERMINAL UNITS.
5. MOUNT CONTROLLER ADJACENT TO TERMINAL UNIT IN CONTROL ENCLOSURE.
6. COORDINATE ALL WALL MOUNTED DEVICES WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
7. WALL MOUNTED DEVICES SHALL BE ADA COMPLIANT.
8. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
9. REQUIRED ON DENSELY OCCUPIED ROOMS SUCH AS CONFERENCE ROOMS.
10. ROOMS OCCUPIED/UNOCCUPIED MODES ARE CONTROLLED THROUGH THE BUILDING LIGHTING SYSTEM. BAS IS MONITORING THE ROOMS CONDITIONS FROM A CONTACT ON A LIGHTING SYSTEM OCCUPANCY SENSOR. REFER TO LIGHTING SPECIFICATION 26 09 23 AND LIGHTING EL SERIES DRAWINGS FOR EACH ROOMS TYPE OF INTERFACE.

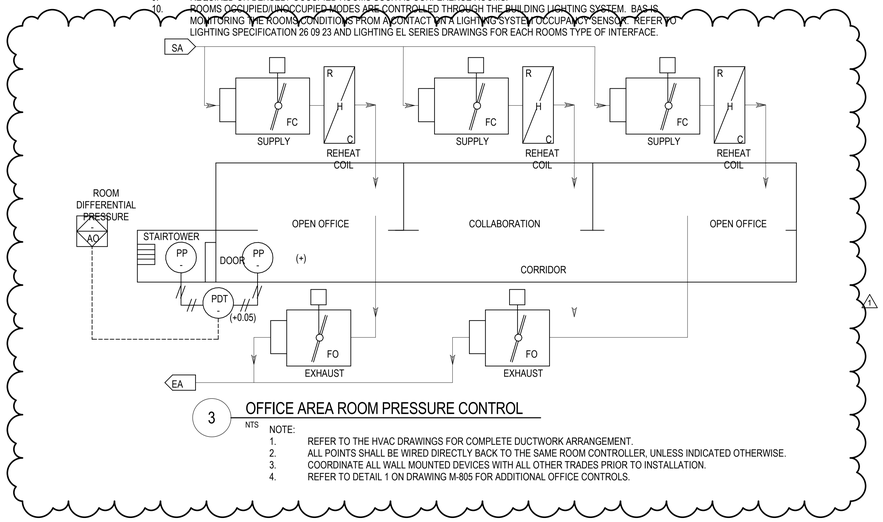


2 TYPICAL LAB

NTS

NOTE:

1. REFER TO THE HVAC DRAWINGS FOR COMPLETER DUCTWORK ARRANGEMENT.
2. ALL POINTS SHALL BE WIRED DIRECTLY BACK TO THE SAME ROOM CONTROLLER, UNLESS INDICATED OTHERWISE.
3. REFER TO MECHANICAL DRAWINGS FOR QUANTITIES AND LOCATIONS OF TERMINAL UNITS.
4. MOUNT CONTROLLER ADJACENT TO TERMINAL UNIT IN CONTROL ENCLOSURE.
5. COORDINATE ALL WALL MOUNTED DEVICES WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
6. WALL MOUNTED DEVICES SHALL BE ADA COMPLIANT.
7. REFER TO MECHANICAL DRAWINGS FOR LOCATIONS.
8. FUME HOOD CONTROLLER, MONITOR, PROXIMITY SENSOR, AND FLOW SENSORS TO BE PROVIDED BY DIVISION 25.
9. ALL TERMINAL BOXES AND FUME HOOD ACTUATORS SHALL BE HIGH SPEED, LESS THAN THREE SECONDS FROM OPEN TO CLOSED, FOR VAV APPLICATIONS.
10. ROOMS OCCUPIED/UNOCCUPIED MODES ARE CONTROLLED THROUGH THE BUILDING LIGHTING SYSTEM. BAS IS MONITORING THE ROOMS CONDITIONS FROM A CONTACT ON A LIGHTING SYSTEM OCCUPANCY SENSOR. REFER TO LIGHTING SPECIFICATION 26 09 23 AND LIGHTING EL SERIES DRAWINGS FOR EACH ROOMS TYPE OF INTERFACE.



3 OFFICE AREA ROOM PRESSURE CONTROL

NTS

NOTE:

1. REFER TO THE HVAC DRAWINGS FOR COMPLETE DUCTWORK ARRANGEMENT.
2. ALL POINTS SHALL BE WIRED DIRECTLY BACK TO THE SAME ROOM CONTROLLER, UNLESS INDICATED OTHERWISE.
3. COORDINATE ALL WALL MOUNTED DEVICES WITH ALL OTHER TRADES PRIOR TO INSTALLATION.
4. REFER TO DETAIL 1 ON DRAWING M-805 FOR ADDITIONAL OFFICE CONTROLS.

GENERAL NOTES:

1. REFER TO DRAWING M-801 FOR SYMBOLS AND ABBREVIATIONS.
2. REFER TO SPECIFICATION 25 90 00 FOR SEQUENCE OF OPERATIONS.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	ADDENDUM #2

Project Number 10062179
Original Issue 01/26/18 -

ALABAMA LICENSED PROFESSIONAL ENGINEER No. 33074 3-28-18

Sheet Name

BAS-ROOM CONTROL DIAGRAMS

Sheet Number

M-805

Project Status

4/13/2018 9:53:49 AM

C:\rvt\2017\10062179-M-CENTRAL_WZAVATKAY.rvt

POWER & AUXILIARY - FLOOR OUTLETS

- FLOOR OUTLET: DUPLEX RECEPTACLE, 20A., 125V., 2P., 3W., WIREMOLD. SEE FLOOR BOX NOTES THIS SHEET.
- COMPUTER SYSTEM: FLOOR OUTLET WITH 3/4"C. STUBBED TO ABOVE ACCESSIBLE CEILING. SEE FLOOR BOX NOTES THIS SHEET.
- FLOOR OUTLET (POKE-THRU DEVICE), COMBINATION POWER AND DATA, WIREMOLD, OR APPROVED EQUAL. SEE FLOOR BOX NOTES THIS SHEET.

AUDIO - VISUAL

- $_{I}$ INTERCOM SYSTEM: WALL OUTLET WITH 3/4"C. STUBBED TO ABOVE ACCESSIBLE CEILING [TBB]
- $_{IM}$ INTERCOM SYSTEM: MASTER STATION, WALL OUTLET. STUBBED TO ABOVE ACCESSIBLE CEILING [TBB]
- M SOUNDSYSTEM: MICROPHONE OUTLET BOX. COORDINATE REQUIREMENTS WITH SOUND SYSTEM SUPPLIER.
- $_{M}$ WALL OUTLET: JUNCTION BOX FOR MICROPHONE.
- $_{F}$ FLOOR OUTLET: RECESSED FLOOR BOX FOR SOUND SYSTEM
- TV WALL OUTLET: JUNCTION BOX WITH 3/4"C. STUBBED TO [ABOUT XXX XXX] [TBB]

RECEPTACLES

- WALL OUTLET: DUPLEX RECEPTACLE, NEMA 5-20R.
- $_{S}$ WALL OUTLET: SINGLE RECEPTACLE, NEMA 5-20R. 1
- WALL OUTLET: DUPLEX RECEPTACLE, NEMA 5-20R, MOUNT 44" AFF UNLESS OTHERWISE NOTED OR EQUAL.
- WALL OUTLET: SINGLE RECEPTACLE, NEMA 6-30R. 1
- EWC WALL OUTLET: ELECTRIC WATER COOLER RECEPTACLE, GFI TYPE, 20A, 125V, 2P, 3W, NEMA 5-20R. VERIFY EXACT HEIGHT AND LOCATION PRIOR TO INSTALLATION.
- GFI WALL OUTLET: GROUND FAULT INTERRUPTER RECPTACLE, TERMINAL NEMA 5-15R. MOUNT AT 18" A.F.F. OR AS NOTED.
- WP WALL OUTLET: DUPLEX RECEPTACLE, WEATHERPROOF, NEMA 5-20R.
- WALL OUTLET: DOUBLE-DUPLEX, NEMA 5-20R., MOUNT 44" AFF.
- WALL OUTLET: DOUBLE-DUPLEX, NEMA 5-20R., MOUNT 18" AFF.
- WALL OUTLET: NEMA 14-30R., MOUNT 18" AFF.
- WALL OUTLET: NEMA 6-30R., MOUNT 18" AFF.
- WALL OUTLET: NEMA 6-50R., MOUNT 18" AFF.
- WALL OUTLET: NEMA 14-50R., MOUNT 18" AFF. 1
- CEILING OUTLET: TWIST-LOCK, 120V., 20A. FOR LAB BENCHES. CONFIRM CONNECTION TYPE WITH VENDOR.

TELE/DATA

SEE DETAILS ON SHEET E009.

FIRE ALARM

- F FIRE ALARM SYSTEM: MANUAL STATION, MOUNT 4'-0"H.
- FA FIRE ALARM SYSTEM: ANNUNCIATOR
- FIRE ALARM SYSTEM: SMOKE DETECTOR, SURFACE MOUNTED.
- T FIRE ALARM SYSTEM: AUTOMATIC FIRE DETECTOR, HIGH TEMPERATURE, 190 DEG. F.(THERMAL) (THERMAL AND RATE OF RISE).
- FIRE ALARM SYSTEM: SMOKE DETECTOR IN A/C DUCT WITH SAMPLING TUBES.
- FIRE ALARM SYSTEM: COMBINATION HORN AND LIGHT. MOUNT 80" A.F.F.
- FIRE ALARM SYSTEM: COMBINATION SPEAKER AND STROBE, WALL MOUNTED 7'-0"H. OR AS SHOWN ON ARCHITECTURAL ELEVATIONS. COORDINATE WITH GENERAL CONTRACTOR. MOUNT 80" A.F.F.
- FIRE ALARM SYSTEM: ALARM SIGNAL LIGHT. MOUNT 80" A.F.F.
- FIRE ALARM SYSTEM: (AUTOMATIC DOOR RELEASE)
- FACP FIRE ALARM SYSTEM: CONTROL PANEL, (SURFACE) (FLUSH) MOUNTED.
- F FIRE ALARM SYSTEM: 3/4" CONDUIT UNLESS OTHERWISE NOTED. CONDUCTORS PER MANUFACTURER.
- F FIRE ALARM SYSTEM: COMBINATION SPEAKER AND STROBE, CEILING MOUNTED. 2
- F FIRE ALARM SYSTEM: SPEAKER, MOUNTED IN CEILING.
- $_{F}$ FIRE ALARM SYSTEM: FIREMAN PHONES.

SYSTEM FURNITURE

- X,Y PD WHIP CONNECTION FOR SYSTEMS FURNITURE. X, Y ARE CIRCUIT NUMBERS TO PANEL SHOWN. PROVIDE SEPARATE DOUBLE GANG JUNCTION BOX WITH 2-1"C. STUBBED TO ABOVE ACCESSIBLE CEILING FOR DATA/COMM USE.
- X,Y PD WHIP CONNECTION FROM POWER/DATA POLE TO SYSTEMS FURNITURE. X, Y ARE CIRCUIT NUMBERS TO PANEL SHOWN. PROVIDE FLOOR BOX FOR POWER & DATA. WIREMOLD 4FFATC OR EQUAL. DATA TO HAVE SEPARATE DATA/COMM RACEWAY.

LIGHTING (SEE LIGHT FIXTURE SCHEDULE)

- A 1 CEILING OUTLET: RECESSED LIGHT FIXTURE, AS NOTED, TYPE "A" CIRCUIT #1.
- A 1 CEILING OUTLET: RECESSED EMERGENCY LIGHT FIXTURE, AS NOTED, TYPE "A" CIRCUIT #1.
- CEILING OUTLET: EXIT LIGHT, SEE LIGHT FIXTURE SCHEDULE.
- A 1 CEILING OUTLET: RECESSED LIGHT FIXTURE. LUMINAIRE TYPE "A", CIRCUIT #1
- A CEILING OUTLET: RECESSED EMERGENCY LIGHT FIXTURE. LUMINAIRE TYPE "A", CIRCUIT #1
- CEILING OUTLET: SURFACE MOUNTED FLOURESCENT LIGHT FIXTURE.
- CEILING OUTLET: SURFACE MOUNTED EMERGENCY FLOURESCENT LIGHT FIXTURE.
- WALL OUTLET: WALL MOUNTED EMERGENCY LIGHT FIXTURE.
- WALL OUTLET: WALL MOUNTED LIGHT FIXTURE.
- A POLEMOUNTED FIXTURE: LIGHT FIXTURE. TYPE "A", CIRCUIT #1.

LIGHTING CONTROLS

- WALL SWITCH: MANUAL DIMMER
- WALL SWITCH: LINE VOLTAGE OR 0-10V, AS REQUIRED, WIRELESS, DIMMING.
- $ WALL SWITCH: A.C. TYPE, 1-POLE, 15A, 125/277V.
- $ 3 WALL SWITCH: A.C. TYPE, 3-WAY, 15A, 125/277V.
- $ 4 WALL SWITCH: A.C. TYPE, 4-WAY, 15A, 125/277V.
- $ W WALL SWITCH: SYSTEM ON/OFF, RAISE/LOWER. FOR USE WITH WIRELESS. SEE DETAILS.
- PE PHOTOCELL: TORK #2101 OR EQUAL MOUNTED ON ROOF.
- $ O WALL SWITCH: OCCUPANCY SENSOR & MANUAL ON/OFF. WATTSTOPPER DW-100 OR EQUAL.
- $ OS WALL SWITCH: OCCUPANCY SENSOR & MANUAL ON/OFF, RAISE/LOWER.
- $ M SWITCH: LIGHT CONTROL SYSTEM, MOMENTARY, SEE DETAILS.
- $ OVR SWITCH: LOCAL ON/OFF OVERRIDE SWITH FOR LOCAL OCCUPANCY SENSOR.
- WALL OCCUPANCY SENSOR: SEE DETAILS.
- CEILING OCCUPANCY SENSOR: SEE DETAILS
- P LIGHTING POWER PACK: FOR USE WITH OCCUPANCY SENSORS & LIGHTING CONTROL. SEE DETAILS.

POWER

- CEILING EXHAUST FAN.
- NON-FUSED DISCONNECT SWITCH.
- FUSED DISCONNECT SWITCH.
- CIRCUIT BREAKER.
- ATS AUTOMATIC TRANSFER SWITCH.
- LIGHTING PANEL: SEE SCHEDULE AND SPECIFICATIONS.
- RECEPTACLE PANEL: SEE SCHEDULE AND SPECIFICATIONS.
- ELECTRICAL PANEL: SEE SCHEDULE AND SPECIFICATIONS.
- POWER PANEL
- TRANSFORMER
- FUSED DISCONNECT SWITCH WITH CONNECTION TO EQUIPMENT.
- $ T MANUAL MOTOR STARTER THERMAL SWITCH. WALL MOUNT 5'-6"H. OR AT MOTOR AS SHOWN.

JUNCTION & OUTLET BOXES

- J CEILING OUTLET: JUNCTION BOX.
- WALL OUTLET: JUNCTION BOX WITH FLEXIBLE CONNECTION.

ABBREVIATIONS

WP	WEATHERPROOF, NEMA 3R.
EP	EXPLOSION PROOF (SEE SPECS).
TP	TAMPER PROOF
RR	REMOVE AND REPLACE WITH NEW.
EM	EMERGENCY
NL	NIGHT LIGHT
EX	EXISTING
XR	EXISTING-REMOVE
XRR	EXISTING-REMOVE AND RELOCATE
XRL	EXISTING-RELOCATED
C	CONDUIT RACEWAY
EMT	ELECTRICAL METALLIC TUBING
TBB	TELEPHONE BACKBOARD
A	ABOVE COUNTER
AFG	ABOVE FINISH GRADE
AFF	ABOVE FINISH FLOOR
G,GRD	GROUND
GFI	GROUND FAULT INTERRUPTING
AL	ALUMINUM
CU	COPPER

FLOOR BOX NOTES - COMMUNICATIONS

POKE-THRU: WIREMOLD #6ATC2P SERIES WITH #6ACT6A COMM DEVICE PLATE, 3#CM2-U2KEYA-BK DUAL UNLOADED JACK INSERT, 1#CM2-BL-BK BLANK MODULE AND #1125CHA BOTTOM HOUSING ASSEMBLY FOR 1-1/4"C.

POKE-THRU WITH A/V: WIREMOLD #8ACTP SERIES WITH #8ACT6A COMM DEVICE PLATE, #3CM2-U2KEYA-BK DUAL UNLOADED JACK INSERT, #1125CHA BOTTOM HOUSING ASSEMBLY FOR 1 1/4"C., #8AAP A/V DEVICE PLATE, AND #22CHA BOTTOM HOUSING FOR 2"C.

FLOOR BOX ON GRADE: WIREMOLD #RFB6E-OG SERIES WITH 2#RFB62A COMM BRACKETS, 3#CM2-U2KEYA-BK DUAL UNLOADED JACK INSERT, #CM2-BL-BK BLANK MODULE, AND 2#RFB6B BLANK BRACKET.

FLOOR BOX ON GRADE WITH A/V: WIREMOLD #RFB6E-OG SERIES WITH 2#RFB62A COMM BRACKETS, 3#CM2-U2KEYA-BK DUAL UNLOADED JACK INSERT, #CM2-BL-BK BLANK MODULE, AND 2#RFB6-AAP-A/V BRACKET.

BRANCH CIRCUITS

- BRANCH CIRCUIT: CONCEALED IN CEILING OR WALL.
- BRANCH CIRCUIT: HOMERUN TO PANELBOARD AND 20A., 1P., BREAKER, UNLESS OTHERWISE NOTED. SHOWN, 2#12-3/4"C. HASHMARKS INDICATE NUMBER OF CONDUCTORS WHEN GREATER THAN 2#12. THE NUMBER IN THE CIRCUIT INDICATES A.W.G. WIRE SIZE WHEN DIFFERENT THAN #12 AWG.
- BRANCH CIRCUIT: CONCEALED IN OR BELOW FLOOR OR UNDERGROUND
- RISER: DOWN
- RISER: UP

ALTERNATE FLOORS 2-7

1. RELOCATE WIRING DEVICES ON SOUTH WALL OF OFFICES/LABS/CONF. RM TO PATCH WALL AS REQUIRED. CONNECT TO EXISTING CIRCUITS.
2. REMOVE WIRING DEVICES ON SOUTH WALL IN CORRIDORS.
3. REMOVE ALL ABANDONED CONDUIT & WIRE.

1

REFER TO ARCHITECTURAL ALTERNATES SHEET FOR ADDITIONAL INFORMATION ON ALTERNATES.

NOTES

1. ALL ELECTRICAL WORK SHALL BE DONE IN ACCORDANCE WITH THE NATIONAL ELECTRICAL CODE AND LOCAL ORDINANCES. CONTRACTOR SHALL OBTAIN AND PAY FOR ALL NECESSARY PERMITS.
2. CONTRACTOR SHALL VISIT THE SITE AND FAMILIARIZE HIMSELF WITH ALL DETAILS OF THE WORK AND ALL EXISTING FIELD CONDITIONS.
3. CONTRACTOR SHALL PROVIDE A COMPLETE ELECTRICAL INSTALLATION INCLUDING ALL WORK CUSTOMARILY INCLUDED EVEN IF NOT SPECIFICALLY CALLED OUT.
4. THE ELECTRICAL CONTRACTOR SHALL CAREFULLY COORDINATE HIS WORK WITH OTHER CONTRACTORS THROUGH THE GENERAL CONTRACTOR FOR SPACE REQUIREMENTS, ETC.
5. CONTRACTOR SHALL VERIFY ALL MECHANICAL EQUIPMENT NAMEPLATE DATA BEFORE ANY WORK IS DONE AND MAKE ANY ADJUSTMENTS IN BREAKER AND WIRE SIZE AS MAY BE REQUIRED.
6. SHOULD THE CONTRACTOR FIND DISCREPANCIES OR OMISSIONS IN THE CONTRACT DOCUMENTS OR BE IN DOUBT AS TO INTENT, HE SHALL IMMEDIATELY OBTAIN CLARIFICATION FROM THE ARCHITECT OR ENGINEER.
7. THE ELECTRICAL DRAWINGS ARE SCHEMATIC AND ARE NOT INTENDED TO SHOW THE EXACT LOCATION OF CONDUITS, OUTLETS, ETC., THE CONTRACTOR SHALL REFER TO ARCHITECTURAL, MECHANICAL, AND PLUMBING DRAWINGS AND SHALL FIT HIS WORK TO CONFORM WITH THE BUILDING CONSTRUCTION, AND WITH THE OTHER TRADES.
8. ATTENTION IS CALLED TO THE FACT THAT THIS IS A RENOVATION OF AN EXISTING BUILDING, WHEN THE WORK IS FINISHED, THE ELECTRICAL SHALL BE COMPLETE IN EVERY RESPECT, COMPLETELY INTEGRATED WITH ALL THE EXISTING ELECTRICAL SYSTEMS. ELECTRICAL SERVICE TO THE EXISTING BUILDING SHALL NOT BE INTERRUPTED AT ANY TIME. PROVIDE ALL THE NECESSARY TIES AND TEMPORARY SERVICE TO ACHIEVE THIS CONDITION.
9. RENOVATION/ADDITION SHALL BE MADE TO TIE INTO EXISTING IN A UNIFORM MANNER. SIMILAR ITEMS IN NEW BUILDING SHALL BE CHECKED AGAINST EXISTING BUILDING AS FOR TYPE MOUNTING, MOUNTING HEIGHTS, ETC. ANY ITEMS SHOWN IN NEW ADDITION AT VARIANCE FROM ABOVE SHALL BE REFERRED TO ARCHITECT FOR DECISION BEFORE ROUGHING IN.
10. DEMOLITION: ALL EXISTING BRANCH CIRCUITS NOT REUSED ON THIS PROJECT SHALL BE REMOVED BACK TO THE ELECTRICAL PANELBOARD. THIS INCLUDES ALL CONDUIT, CONDUCTORS, JUNCTION BOXES, INACTIVE DATA AND TELEPHONE CABLES, HANGERS, AND ALL INACTIVE ELECTRICAL DEVICES. CONTRACTOR SHALL VERIFY THAT ANYTHING REMOVED DOES NOT BELONG TO ANOTHER TENANT.
11. SHOULD ANY ELECTRICAL POWER, LIGHT OR AUXILIARY, CIRCUITS, FEEDERS OR EQUIPMENT BE SEVERED, DISCONNECTED OR DELETED IN THE PROCESS OF CONSTRUCTION OR REMODELING WHICH IS DONE AS A RESULT OF CONTRACT PLANS AND SPECIFICATIONS, AND UNLESS IT IS SPECIFICALLY DESIGNATED BY THE DRAWINGS TO BE DELETED, THEN SAID CIRCUIT OR FEEDER SHALL BE RESTORED TO FIRST CLASS WORKING CONDITION. THE RESTORATION SHALL INCLUDE ANY RE-ROUTING, RELOCATIONS OR REPLACEMENT AS MAY BE NECESSITATED BY THE ARCHITECTURAL AND STRUCTURAL CONSTRUCTION. ANY SUCH WORK REQUIRED SHALL BE INCLUDED IN THE ELECTRICAL CONTRACT AND NO EXTRA COMPENSATION WILL BE GRANTED.
12. THE ELECTRICAL CONTRACTOR SHALL DO ALL CUTTING, PATCHING AND REPAIRING REQUIRED TO DO THIS WORK. REPAIRING OF WORK SHALL BE COMPARABLE TO WORK CUT. PAINT TO MATCH ADJACENT SURFACES OR AS DIRECTED BY ARCHITECT. COORDINATE WITH GENERAL CONTRACTOR.
13. IN ALL AREAS TO BE REWORKED, THE ELECTRICAL CONTRACTOR SHALL REMOVE ALL EXISTING ELECTRICAL EQUIPMENT (LIGHT FIXTURES, DEVICES, OUTLETS, ETC.) AND ALL BRANCH CIRCUITS AND FEEDERS NOT REQUIRED FOR CONTINUATION OF EXISTING CIRCUITS TO REMAIN, AND REWORK THE AREA AS SHOWN. ANY CIRCUITS BROKEN BY DEMOLITION FOR THE NEW BUILDING ALTERATIONS SHALL BE REPLACED AS REQUIRED. PROVIDE BLANK COVERS FOR ALL OUTLETS NEEDED FOR CONTINUITY OF EXISTING CIRCUITS.
14. MOUNTING HEIGHTS OF ALL WALL OUTLETS SHALL BE AS FOLLOWS UNLESS OTHERWISE NOTED:
    WALL SWITCHES.....4'-0"H.
    RECEPTACLES GENERAL.....1'-6"H.
    MANUAL FIRE ALARM STATION.....4'-0"H.
    TELEPHONE.....1'-6"H.
    JUNCTION BOXES.....1'-6"H.
    EXIT LIGHT.....CENTERLINE ABOVE DOOR
15. ELECTRICAL CONTRACTOR SHALL VERIFY EXACT HEIGHT OF ALL COUNTER TOPS AND BACK-PLASHES ON CASEWORK SHOP DRAWINGS, AND CHANGE SPECIFIED MOUNTING HEIGHT OF WALL OUTLETS INDICATED AS REQUIRED SO THAT BOTTOM OF OUTLET BOX IS 2" ABOVE TOP OF BACKSPLASH OR IF NO BACKSPLASH IS USED, 4" ABOVE COUNTERTOP.
16. DO NOT MOUNT OUTLETS BACK-TO-BACK. PROVIDE MINIMUM 24" SEPARATION IN FIRE RATED WALLS.
17. ALL OUTLETS IN EXPOSED CONCRETE BLOCK WALLS SHALL BE ADJUSTED AS REQUIRED TO ALLOW CUTTING OF ONLY ONE BLOCK. MAINTAIN UNIFORM HEIGHTS THROUGHOUT THE BUILDING.
18. VERIFY ALL DOOR SWINGS WITH ARCHITECT BEFORE ROUGHING LIGHT SWITCHES.
19. CONTRACTOR SHALL CHECK ALL LIGHT FIXTURES FOR EXACT TYPE MOUNTING AND SPACE REQUIRED BEFORE ROUGHING IN. 3
20. BRANCH CIRCUITS #12 A.W.G. AND 3/4" CONDUIT (GALVANIZED) MINIMUM. CONDUCTORS SHALL BE 98% CONDUCTIVITY COPPER, SEE SPECIFICATIONS FOR TYPE INSULATION.
21. VOLTAGE DROP: FOR 20 AMP CIRCUITS OVER 100FT. AND LESS THAN 175 FT, USE #10 CONDUCTORS. FOR 20 AMP CIRCUITS OVER 174 FEET AND LESS THAN 275 FEET, USE #8 CONDUCTORS.
22. ALL CONDUITS CROSSING EXPANSION JOINTS SHALL HAVE EXPANSION TYPE FITTINGS.
23. THE ATTACHED DRAWINGS WERE DEVELOPED FROM RECORD DRAWINGS AND INFORMATION PROVIDED BY OTHERS WHICH MAY NOT REFLECT ACTUAL FIELD CONDITIONS. THE CONTRACTOR SHALL VERIFY ALL CONDITIONS IN THE FIELD BEFORE PROCEEDING WITH SUBSEQUENT WORK. THE DESIGN TEAM SHALL BE NOTIFIED OF ANY DISCREPANCIES OR CONFLICTS WITH DRAWINGS FOR CLARIFICATION PRIOR TO PROCEEDING WITH WORK.
24. FOR ALL SINGLE-PHASE CIRCUITS SHARING A NEUTRAL WITH OTHER SINGLE-PHASE CIRCUITS, CONTRACTOR SHALL INSTALL CIRCUIT BREAKER HANDLE TIES WHICH WILL PROVIDE FOR SIMULTANEOUS DISCONNECTION OF ALL CIRCUIT BREAKERS FOR CIRCUITS WHICH SHARE THE SAME NEUTRAL. HANDLE TIE SHALL NOT PREVENT THE REQUIRED TRIPPING OF A BREAKER.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	Addendum #1
2	2018-04-12	Addendum #2
3	2018-04-26	Addendum #4

Project Number 10062179
Original Issue 2017-11-22 -

ALABAMA LICENSED PROFESSIONAL ENGINEER ELISABETH HYDE NO. 17960
3-28-18

Sheet Name
Legend and Notes

Sheet Number
E-001

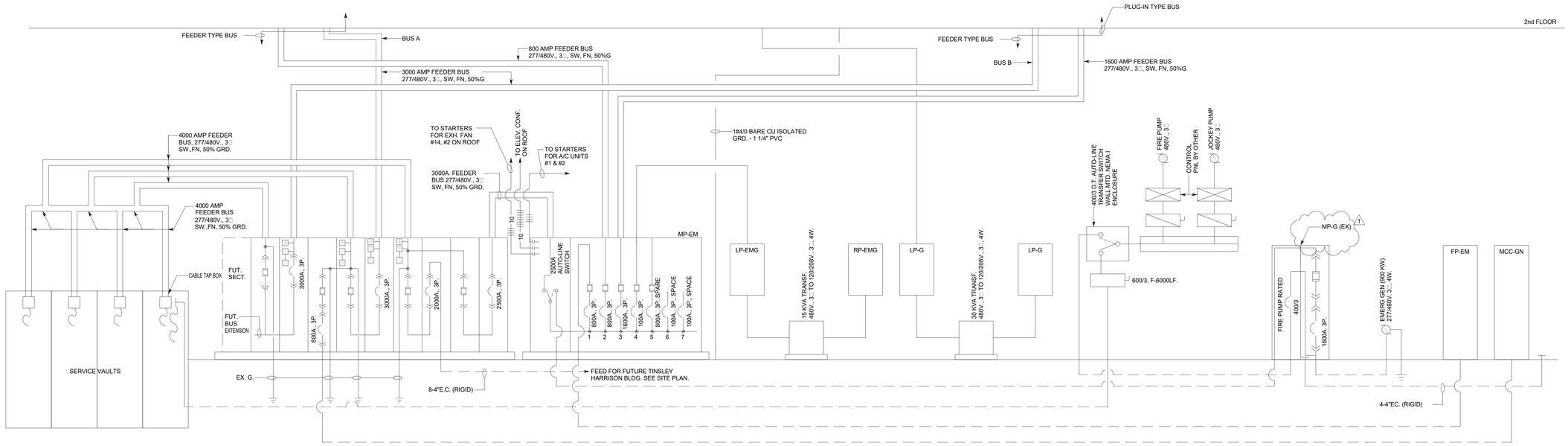
Project Status
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM

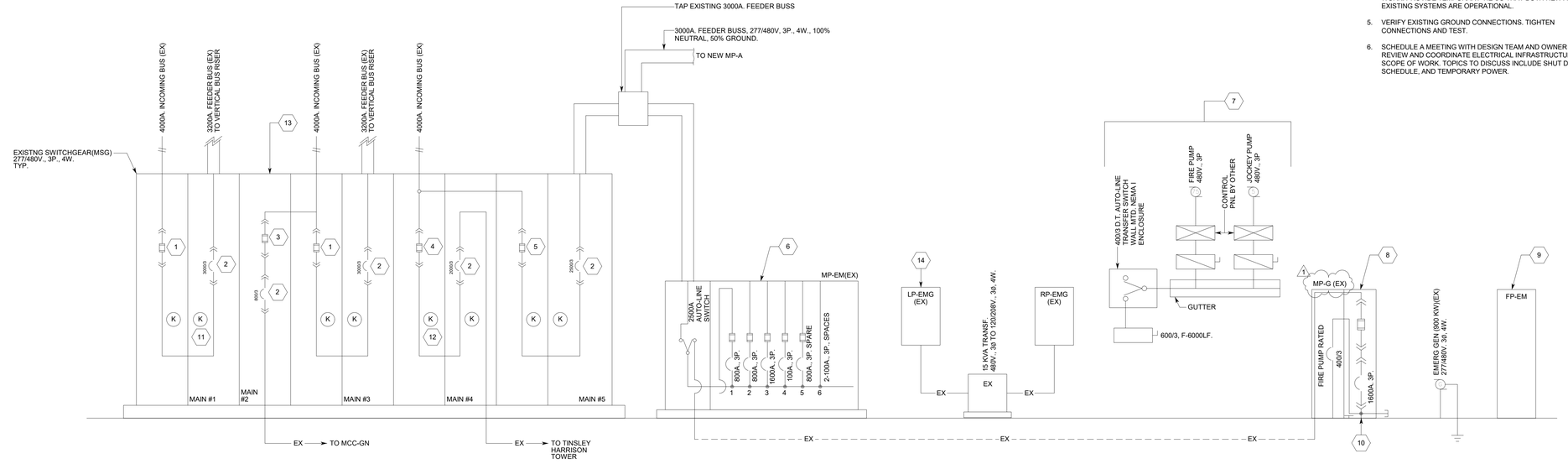
ENGINEER ELISABETH HYDE
PROJECT # 17061.0

4/26/2018 10:28:47 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt



RISER DIAGRAM - EXISTING
POWER DISTRIBUTION
NO SCALE



RISER DIAGRAM - NEW WORK
POWER DISTRIBUTION
NO SCALE

KEYED NOTES:

1. EXISTING FUSE TRUCK AND FUSES. REPLACE EXISTING 4000A. FUSES. SEE SPECIFICATIONS FOR ADDITIONAL WORK.
2. REPLACE EXISTING CIRCUIT BREAKER, SEE SPECIFICATIONS.
3. EXISTING FUSE TRUCK AND FUSES. REPLACE EXISTING 800A. FUSES. SEE SPECIFICATIONS FOR ADDITIONAL WORK.
4. EXISTING FUSE TRUCK AND FUSES. REPLACE EXISTING 2000A. FUSES. SEE SPECIFICATIONS FOR ADDITIONAL WORK.
5. EXISTING FUSE TRUCK AND FUSES. REPLACE EXISTING 2500A. FUSES. SEE SPECIFICATIONS FOR ADDITIONAL WORK.
6. REMOVE MP-EM AFTER NEW EMERGENCY SYSTEM IS IN PLACE AND EXISTING EMERGENCY SYSTEMS HAVE BEEN TRANSFERED TO NEW.
7. RE-FEED EXISTING FIRE PUMP ATS FROM NEW EMERGENCY DISTRIBUTION SYSTEM, SEE SHEET E0.3.
8. REMOVE EXISTING EMERGENCY DISTRIBUTION SWITCHBOARD AFTER NEW EMERGENCY SYSTEM IS IN PLACE AND EXISTING EMERGENCY SYSTEMS HAVE BEEN TRANSFERRED TO NEW.
9. RE-FEED EXISTING SWITCHBOARD FROM NEW EMERGENCY DISTRIBUTION SYSTEM, SEE SHEET E0.3.
10. TO TEMPORARY TAP FROM NEW EMERGENCY FEEDER, SEE SHEET E0.3. DISCONNECT EXISTING FEED FROM EMERGENCY DISTRIBUTION SWITCHBOARD IN GENERATOR ROOM.
11. REPLACE KEY INTERLOCK SYSTEM , TYP. KEY INTERLOCK OPERATION TO MATCH EXISTING.
12. EXISTING KEY IS MISSING.
13. REPLACE ALL ANALOG METERS WITH NEW DIGITAL METERS. SEE SPECIFICATIONS.
14. REFEED EXISTING LP-EMG FROM NEW PANEL PP-EM. SEE SHEET E-003

GENERAL POWER DISTRIBUTION SCOPE OF WORK:

1. REPLACE BREAKERS IN MSG, MAIN SWITCHGEAR. ONLY ONE BREAKER SHALL BE OUT OF SERVICE AT ANY GIVEN TIME. SEE LOW VOLTAGE SWITCHGEAR SPECIFICATIONS.
2. NOT USED.
3. ALL OUTAGES SHALL BE SCHEDULED FOR AFTER HOURS AND COORDINATED MINIMUM 2 WEEKS IN ADVANCE. OUTAGES SHALL NOT EXCEED FOUR HOURS IN DURATION FOR EACH OUTAGE.
4. LEAVE EXISTING MP-EM ONLINE DURING NEW EMERGENCY WORK. PROVIDE TEMPORARY TIE SO THAT BOTH NEW AND EXISTING SYSTEMS ARE OPERATIONAL.
5. VERIFY EXISTING GROUND CONNECTIONS. TIGHTEN CONNECTIONS AND TEST.
6. SCHEDULE A MEETING WITH DESIGN TEAM AND OWNER TO REVIEW AND COORDINATE ELECTRICAL INFRASTRUCTURE SCOPE OF WORK. TOPICS TO DISCUSS INCLUDE SHUT DOWNS, SCHEDULE, AND TEMPORARY POWER.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-26	Addendum #4

Project Number 10062179
Original Issue 2017-11-22 -

ALABAMA ENGINEER — NO. 17960 — PROFESSIONAL — ELISABETH HYDE — 3-28-18

Sheet Name
Power Risers - Existing & New Work

Sheet Number
E-002

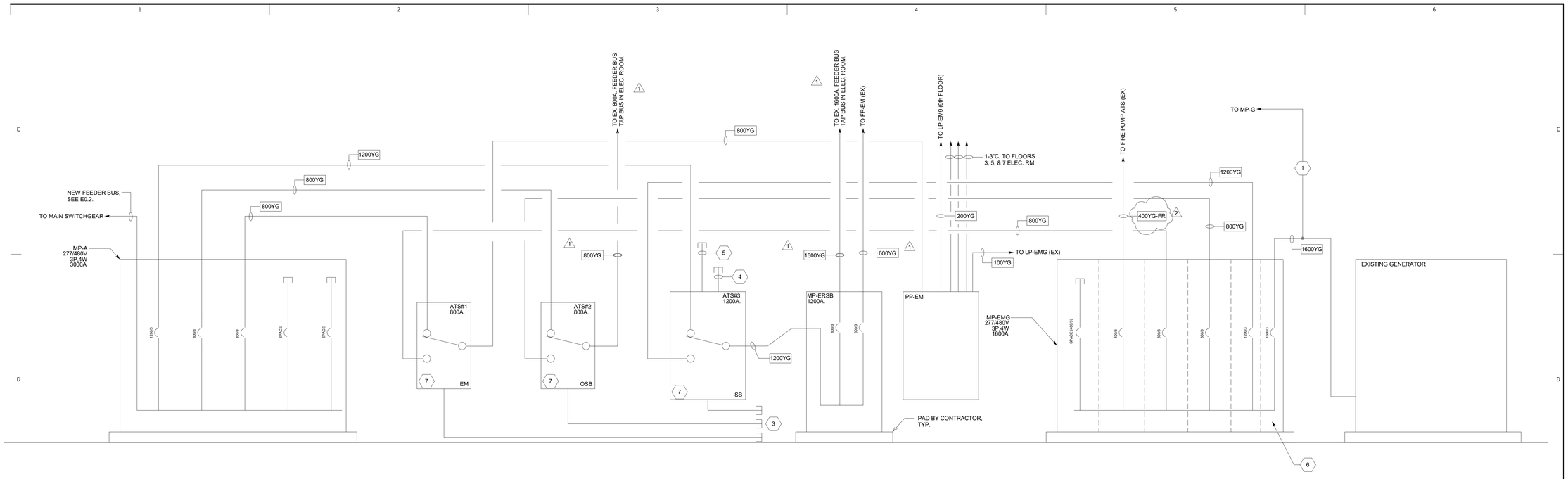
Project Status
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-0911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER ELISABETH HYDE
PROJECT # 17061.0

4/26/2018 10:28:55 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt



KEYED NOTES:

1. TEMPORARY TIE AT MP-G. DISCONNECT EXISTING FEED AT MP-G.
2. PROVIDE TEMPORARY CONNECTION TO EMERGENCY PANEL ON EACH FLOOR TO MAINTAIN EMERGENCY SYSTEMS DURING CHANGE-OVER TO NEW EMERGENCY SYSTEM. SEE DETIAIL THIS SHEET.
3. SIGNAL TO GENERATOR.
4. RECONNECT TO ELEVATOR CONTROLS AND EF-1/2 ON ROOF.
5. RECONNECT TO AHU-1 & 2 CONTROLS.
6. EACH CIRCUIT BREAKER TO BE IN SEPARATE SECTION.
7. ALL TRANSFER SWITCHES TO INCLUDE BYPASS/ISOLATION, SEE SPECIFICATIONS.

RISER DIAGRAM
EMERGENCY POWER
NO SCALE

PROPOSED SEQUENCE OF ELECTRICAL INFRASTRUCTURE UPGRADES

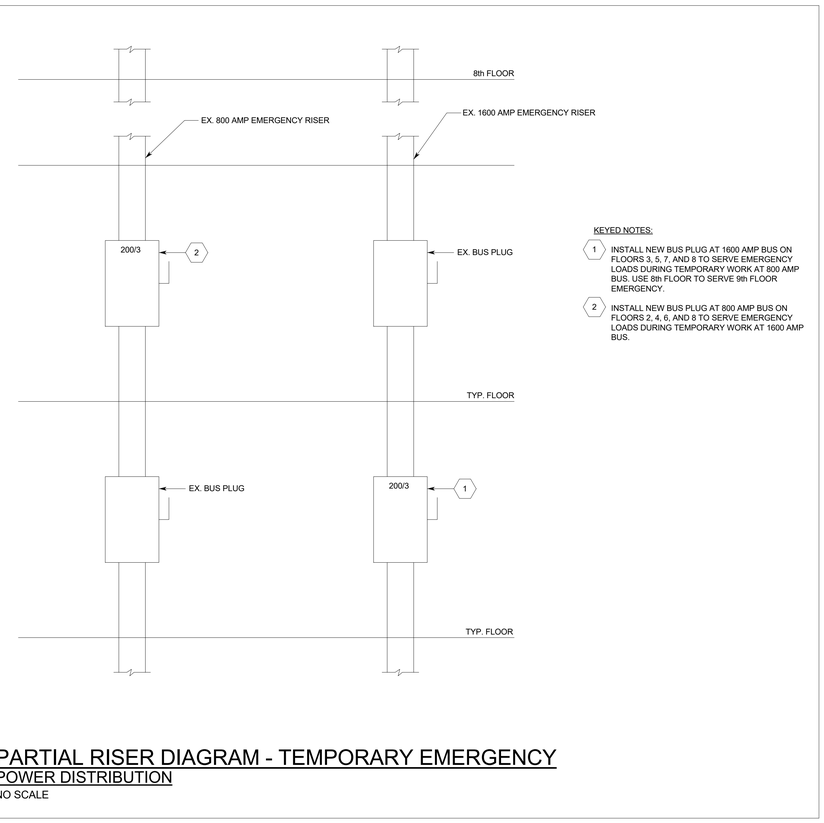
1. SET NEW EMERGENCY EQUIPMENT AND INSTALL NEW FEEDERS.
2. CONCURRENTLY WITH ITEM 1, BEGIN REPLACEMENT OF EXISTING SWITCHGEAR BREAKERS AND MCC COMPONENTS. EXTENDED OUTAGES ARE NOT ALLOWED.
3. MAKE TEMPORARY TIE FOR NORMAL AND EMERGENCY FEEDS TO EMERGENCY EQUIPMENT SO THAT BOTH EXISTING AND NEW EQUIPMENT ARE OPERATIONAL.
4. MAKE CONNECTIONS TO EXISTING EMERGENCY BUS RISERS, FIRE PUMP, EMERGENCY PANELS, ETC. AND COMPLETE CONNECTIONS.
5. AFTER NEW EQUIPMENT AND CONNECTIONS ARE INSTALLED AND TESTED, REMOVE ABANDONED EQUIPMENT AND FEEDERS. REMOVE TEMPORARY TIES.
6. BUILDING IS OCCUPIED AND WILL REMAIN OCCUPIED DURING CONSTRUCTION. DUE TO SENSITIVE RESEARCH OPERATIONS, EXTEND OUTAGES OVER 4 (FOUR) HOURS IS NOT ALLOWED.
7. PROVIDE TEMPORARY POWER AS REQUIRED TO MAINTAIN POWER DURING TO CRITICAL EQUIPMENT DURING EXTENDED OUTAGES.
8. PLEASE NOTE THIS IS SUGGESTED SEQUENCE. ALTERNATIVES WILL BE CONSIDERED.

PANEL: PP-EM

VOLTAGE: 277 /480V	PHASE/WIRE: 3P., 4W.	MAIN BUS RATING: 800A.	MAIN CB TRIP: MLO

MOUNTING: SURFACE — MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS): *

DEVICE:		BRANCH CIRCUIT			PHASE LOAD (VOLT - AMPS)				BRANCH CIRCUIT			DEVICE:	
AMPS TRIP	POLES	DESIGNATION	VOLTS-AMPS	NO.	∅ A	∅ B	∅ C	NO.	VOLTS-AMPS	DESIGNATION	POLES	AMPS TRIP
200	3	LP-EM9	12200	1	12200			2				
			8400	3		8400		4		SPACE	3	200
			8200	5			8200	6				
200	3	SPACE		7	2000			8	2000			
				9		2000		10	2000	LP-EMG	3	100
				11			2000	12	2000			
		SPACE		13	0			14				
		SPACE		15		0		16		SPACE	3	200
		SPACE		17			0	18				
		SPACE		19	0			20		SPACE		
		SPACE		21		0		22		SPACE		
		SPACE		23			0	24		SPACE		
		SPACE		25	0			26		SPACE		
		SPACE		27		0		28		SPACE		
		SPACE		29			0	30		SPACE		
		SPACE		31	0			32		SPACE		
		SPACE		33		0		34		SPACE		
		SPACE		35			0	36		SPACE		
		SPACE		37	0			38		SPACE		
		SPACE		39		0		40		SPACE		
		SPACE		41			0	42		SPACE		
			TOTAL		14200	10400	10200			TOTAL CONNECTED LOAD		51.26
										REQUIRED AMPACITY (AMPS)		64.08



KEYED NOTES:

1. INSTALL NEW BUS PLUG AT 1600 AMP BUS ON FLOORS 3, 5, 7, AND 8 TO SERVE EMERGENCY LOADS DURING TEMPORARY WORK AT 800 AMP BUS. USE 8th FLOOR TO SERVE 9th FLOOR EMERGENCY.
2. INSTALL NEW BUS PLUG AT 800 AMP BUS ON FLOORS 2, 4, 6, AND 8 TO SERVE EMERGENCY LOADS DURING TEMPORARY WORK AT 1600 AMP BUS.

PARTIAL RISER DIAGRAM - TEMPORARY EMERGENCY POWER DISTRIBUTION
NO SCALE

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	Addendum #2
2	2018-04-26	Addendum #4

Project Number 10062179
Original Issue 2017-11-22 -



Sheet Name
Power Risers - Emergency

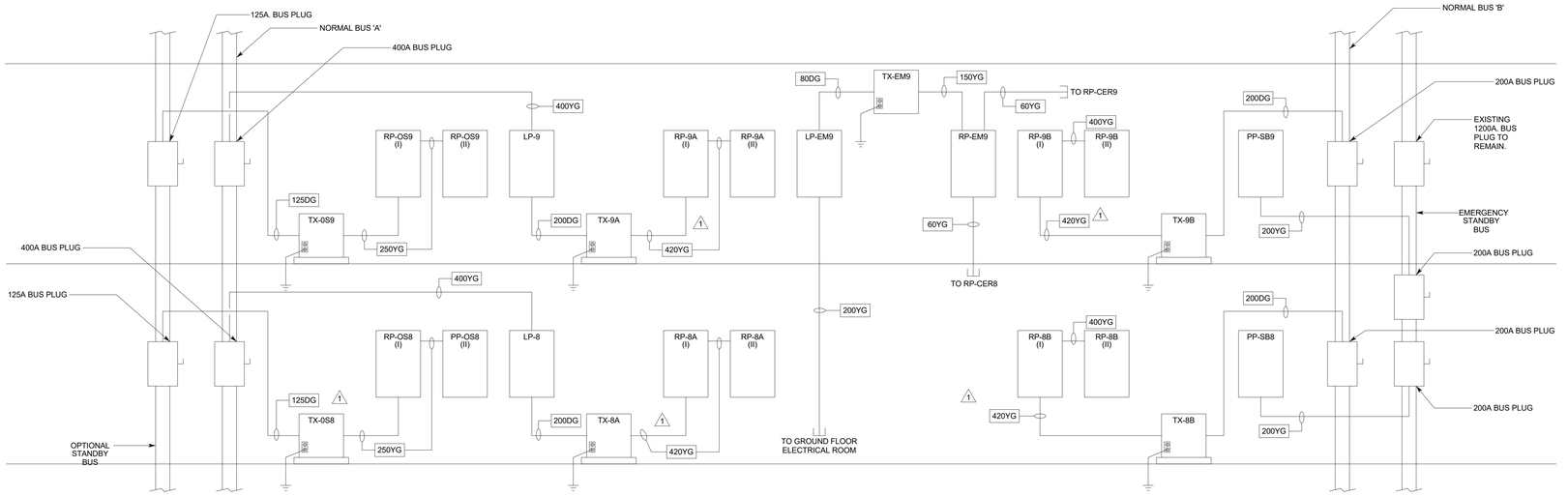
Sheet Number
E-003

Project Status
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER ELISABETH HYDE
PROJECT # 17061.0

4/26/2018 10:29:03 AM
\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt



RISER DIAGRAM - 8th AND 9th FLOOR

POWER DISTRIBUTION SYSTEM

NO SCALE

TRANSFORMER SCHEDULE							
MARK	KVA	PRI	SEC	TYPE	MOUNTING	GROUND	NOTES
TX-8A	112.5	480 △	120/208Y	DRY	FLOOR	2/0	1.
TX-8B	112.5	480 △	120/208Y	DRY	FLOOR	2/0	1.
TX-OSB8	75	480 △	120/208Y	DRY	FLOOR	2	1.
TX-9A	112.5	480 △	120/208Y	DRY	FLOOR	2/0	1.
TX-9B	112.5	480 △	120/208Y	DRY	FLOOR	2/0	1.
TX-OSB9	75	480 △	120/208Y	DRY	FLOOR	2	1.
TX-EM9	45	480 △	120/208Y	DRY	SUSPENDED	2	1.

1. DRY TYPE WITH COPPER WINDINGS.

FEEDER SCHEDULE			
20SG	2#12 & 1#12G.-1/2"C.	200YG	4#3/0 & 1#6G.-3"C.
30DG	3#10 & 1#10G.-3/4"C.	250YG	4#250MCM & 1#4G.-3"C.
30SG	2#10 & 1#10G.-3/4"C.	400DG	3#500MCM & 1#2G.-3"C.
40DG	3#8 & 1#10G.-1"C.	400YG	4#500MCM & 1#2G.-4"C.
60YG	4#6 & 1#10G.-1 1/4"C.	400YG-FR	4#500MCM & 1#2G.-4"C. WITH 2-HOUR FIRE RATING PER UL 2196
80DG	3#4 & 1#8G.-1 1/2"C.	420YG	4#600MCM & 1#2G.-4"C.
100YG	4#2 & 1#8G.-2"C.	600YG	2 SETS OF 4#350MCM & 1#1G.-3 1/2"C.
125DG	3#1 & 1#6G.-2"C.	800YG	2 SETS OF 4#500MCM & 1#1/0G.-4"C.
150YG	4#1/0 & 1#6G.-2 1/2"C.	1200YG	4 SETS OF 4#350MCM & 1#3/0G.-3 1/2"C.
200DG	3#3/0 & 1#6G.-2 1/2"C.	1600YG	5 SETS OF 4#500MCM & 1#4/0G.-4"C.

SERVICE NOTES:

1. THE SECONDARY SERVICE: 277/480V., 3P, 4W., GROUNDED NEUTRAL, WYE CONNECTED AS SHOWN ON SINGLE LINE DIAGRAM.
2. COORDINATE SERVICE WORK WITH POWER COMPANY. PERFORM WORK IN ACCORDANCE WITH THEIR REQUIREMENTS AND RECEOMMENDATIONS. COORDINATE SHUTDOWNS WITH POWER COMPANY.

RISER NOTES:

1. INDUSTRY AVERAGE EQUIPMENT SIZES WERE USED TO DETERMINE FIT AND WORKING CLEARANCES. E.C. IS TO VERIFY FIT AND WORKING CLEARANCES BASED ON ACTUAL EQUIPMENT CONSIDERED.
2. FOR 277/480 VOLT SYSTEMS 1,000A. & OVER, PROVIDE GFI PROTECTION FOR EACH PROTECTIVE DEVICE RATED 1000A OR MORE. FIELD TEST PER NEC 230.95(C).
3. PROTECTIVE DEVICES RATED 800A & GREATER SHALL BE STATIC TRIP TYPE WITH LSI SETTINGS.
4. PROTECTIVE DEVICES RATED 1200A & GREATER SHALL HAVE ENERGY REDUCING MAINTENANCE SWITCHING WITH LOCAL STATUS INDICATOR OR ARC-FLASH ENERGY REDUCTION SCHEME/METHOD APPROVED BY ENGINEER.
5. SEE FLOOR PLAN FOR PLACEMENT OF EQUIPMENT.
6. PROVIDE DOUBLE LUGS IN TWO SECTION PANELS.
7. ALL EXTERIOR EQUIPMENT TO BE IN NEMA 3R ENCLOSURES.

SHORT CIRCUIT, COORDINATION, AND ARC FLASH:

1. ACTUAL AVAILABLE FAULT CURRENT DATA WAS NOT OBTAINED FROM THE POWER COMPANY. E.C. IS TO OBTAIN FAULT CURRENT DATA FROM POWER COMPANY.
2. E.C. TO PROVIDE SHORT CIRCUIT, COORDINATION, AND ARC FLASH STUDIES.
3. STUDIES ARE TO BE PERFORMED USING SKM POWERWARE, EASYPOWER, OR ETAP SOFTWARE UNDER THE SUPERVISION OF A REGISTERED ENGINEER. ARC FLASH STUDIES SHALL BE CONSISTANT WITH IEEE 1584.
4. PROVIDE PRELIMINARY STUDY REPORT AT TIME OF POWER EQUIPMENT SUBMITTALS. POWER EQUIPMENT SUBMITTALS WILL BE REJECTED WITHOUT PRELIMINARY STUDY.
5. USE RESULTS OF STUDY TO SELECT AIC RATINGS, BREAKER TYPES, ETC FOR POWER EQUIPMENT PRIOR TO ORDERING EQUIPMENT.
6. MARK EQUIPMENT PER BOTH NFPA 70 AND 70E TO INCLUDE, BUT NOT LIMITED TO, ARC FLASH LABELS.
7. PROVIDE FINAL STUDY REPORT AS PART OF CLOSE-OUT DOCUMENTATION (BOTH HARD COPY AND ELECTRONIC PDF FORM).

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(P) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM
ENGINEER
ELISABETH HYDE
PROJECT #
17061.0

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	Addendum #2
2	2018-04-26	Addendum #4

Project Number 10062179
Original Issue 2017-11-22 -



Sheet Name

Power Risers - 8th and 9th Floor

Sheet Number

E-004

Project Status

CONSTRUCTION DOCUMENTS

4/26/2018 10:29:10 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt

PANEL: LP-8
VOLTAGE: 277 /480V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 400A. | MAIN CB TRIP: MLO
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS): *

DEVICE:		BRANCH CIRCUIT			PHASE LOAD (VOLT - AMPS)			BRANCH CIRCUIT			DEVICE:	
AMPS TRIP	POLES	DESIGNATION	VOLTS-AMPS	NO.	∅ A	∅ B	∅ C	NO.	VOLTS-AMPS	DESIGNATION	POLES	AMPS TRIP
20	1	LAB 824 LTS	2900	1	5900			2	3000	FCU-1a	1	20
20	1	LAB 824 LTS	2900	3		5900		4	3000	FCU-2a	1	20
20	1	LAB 818 LTS	2900	5			2900	6		SPACE		
20	1	EQUIP. LAB LTS	2000	7	2000			8		SPACE		
20	1	EQUIP. LAB, OFC LTS	1500	9		1500		10		SPACE		
20	1	CORE AREA LTS		11			0	12		SPACE		
20	1	OFC LTS		13	0			14		SPACE		
20	1	SPARE		15		0		16		SPACE		
20	1	SPARE		17			0	18		SPACE		
20	1	SPARE		19	0			20		SPACE		
20	1	SPARE		21		0		22		SPACE		
20	1	SPARE		23			0	24		SPACE		
20	1	SPACE		25	0			26		SPACE		
		SPACE		27		0		28		SPACE		
		SPACE		29			0	30		SPACE		
		SPACE		31	0			32		SPACE		
		SPACE		33		0		34		SPACE		
		SPACE		35			0	36		SPACE		
200	3	RP-8A	14400	37	14400			38		SPACE		
			14800	39		14800		40		SPACE		
			14200	41			14200	42		SPACE		
		TOTAL	22300	22200	17100			TOTAL CONNECTED LOAD				80.51
								REQUIRED AMPACITY (AMPS)				100.63

PANEL: RP-OS8 SECTION I — DOUBLE LUG
VOLTAGE: 120 /208V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 250A. | MAIN CB TRIP: 250A, MCB
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS): 10,000

DEVICE:		BRANCH CIRCUIT			PHASE LOAD (VOLT - AMPS)			BRANCH CIRCUIT			DEVICE:	
AMPS TRIP	POLES	DESIGNATION	VOLTS-AMPS	NO.	∅ A	∅ B	∅ C	NO.	VOLTS-AMPS	DESIGNATION	POLES	AMPS TRIP
30	2	LAB EQUIP 824F	1500	1	1900			2	400	PROCEDURE 820H	1	20
			1500	3		2300		4	800	LAB EQUIP 824	1	20
20	1	SPARE		5			800	6	800	LAB EQUIP 824	1	20
20	1	SPARE		7	800			8	800	LAB EQUIP 824	1	20
20	1	SPARE		9		400		10	400	LAB EQUIP 824	1	20
20	1	SPARE		11			400	12	400	LAB EQUIP 824	1	20
20	1	SPARE		13	400			14	400	LAB EQUIP 824	1	20
20	1	SPARE		15		800		16	800	LAB EQUIP 824	1	20
20	1	CELL CULTURE 824E	400	17			1200	18	800	LAB EQUIP 824	1	20
20	1	CELL CULTURE 824E	800	19	1300			20	500	LAB EQUIP 824F	1	20
20	1	CELL CULTURE 824E	400	21		900		22	500	LAB EQUIP 824F	1	20
20	1	CELL CULTURE 824E	400	23			900	24	500	LAB EQUIP 824F	1	20
20	1	CELL CULTURE 824E	400	25	900			26	500	LAB EQUIP 824F	1	20
20	1	CELL CULTURE 824E	400	27		400		28		SPARE	1	20
20	1	SUPPORT 824D	400	29			400	30		SPARE	1	20
20	1	SUPPORT 824D	800	31	800			32		SPARE	1	20
20	1	SUPPORT 824D	400	33		400		34		SPARE	1	20
20	1	SUPPORT 824D	800	35			800	36		SPARE	1	20
20	1	SUPPORT 824D	400	37	400			38		SPARE	1	20
30	2	LAB EQUIP 824C	1500	39		1500		40		SPARE	1	20
			1500	41			2300	42	800	SUPPORT 824G	1	20
20	1	LAB EQUIP 824C	1500	43	2700			44	1200	DOOR PWR	1	20
20	1	LAB EQUIP 824C	1500	45		2500		46	1000	DOOR PWR	1	20
20	1	SPARE		47			1500	48	1500	LAB EQUIP 818E	2	20
20	1	LAB EQUIP 824C	500	49	2000			50	1500			
20	1	LAB EQUIP 824F	500	51		500		52		SPARE	1	20
20	1	LAB EQUIP 824F	500	53			500	54		SPARE	1	20
20	1	LAB EQUIP 824F	500	55	500			56		SPARE	1	20
20	1	LAB EQUIP 824F	500	57		500		58		SPARE	1	20
20	1	PROCEDURE 824B	800	59			1300	60	500	LAB EQUIP 818E	1	20
20	1	PROCEDURE 824B	400	61	900			62	500	LAB EQUIP 818E	1	20
20	1	PROCEDURE 824B	800	63		1300		64	500	LAB EQUIP 818E	1	20
20	1	SMOKING 824A	400	65			900	66	500	LAB EQUIP 818E	1	20
20	1	SMOKING 824A	400	67	400			68		SPARE	1	20
20	1	SPARE		69		0		70		SPARE	1	20
20	1	LAB EQUIP 825	400	71			900	72	500	LAB EQUIP 818E	1	20
20	1	LAB EQUIP 826	400	73	900			74	500	LAB EQUIP 818E	1	20
20	1	LAB 818	400	75		800		76	400	LAB EQUIP 818	1	20
20	1	LAB 818	400	77			800	78	400	LAB EQUIP 818	1	20
20	1	LAB 818	400	79	800			80	400	LAB EQUIP 818D	1	20
20	1	LAB 818	400	81		800		82	400	LAB EQUIP 818D	1	20
20	1	SPARE		83			0	84		SPARE	1	20

PANEL: RP-OS8 SECTION II
VOLTAGE: 120 /208V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 250A. | MAIN CB TRIP: 250A, MLO
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS): 10,000

DEVICE:		BRANCH CIRCUIT			PHASE LOAD (VOLT - AMPS)			BRANCH CIRCUIT			DEVICE:	
AMPS TRIP	POLES	DESIGNATION	VOLTS-AMPS	NO.	∅ A	∅ B	∅ C	NO.	VOLTS-AMPS	DESIGNATION	POLES	AMPS TRIP
20	1	LAB EQUIP 818B	500	85	1000			86	500	LAB EQUIP 818C	1	20
20	1	LAB EQUIP 818B	500	87		1000		88	500	LAB EQUIP 818C	1	20
20	1	LAB EQUIP 818B	500	89			1000	90	500	LAB EQUIP 818C	1	20
20	1	LAB EQUIP 818B	500	91	1000			92	500	LAB EQUIP 818C	1	20
20	1	LAB EQUIP 818B	500	93		1000		94	500	LAB EQUIP 818C	1	20
20	1	LAB EQUIP 818B	500	95			1000	96	500	LAB EQUIP 818C	1	20
20	1	SPARE		97	400			98	400	LAB EQUIP 841	1	20
20	1	SPARE		99		400		100	400	LAB EQUIP 824	1	20
20	1	SPARE		101			0	102		SPACE		
20	1	SPARE		103	0			104		SPACE		
20	1	SPARE		105		0		106		SPACE		
20	1	SPARE		107			0	108		SPACE		
20	1	LAB EQUIP 818G	1200	109	1200			110		SPACE		
20	1	SPARE		111		0		112		SPACE		
20	1	SPARE		113			0	114		SPACE		
30	2	LAB EQUIP	1500	115	1500			116		SPACE		
			1500	117		1500		118		SPACE		
20	1	SPARE		119			0	120		SPACE		
20	1	SPARE		121	0			122		SPACE		
20	1	SPARE		123		0		124		SPACE		
20	1	LAB EQUIP	1500	125			1500	126		SPACE		
		SPACE		127	0			128		SPACE		
		SPACE		129		0		130		SPACE		
		SPACE		131			0	132		SPACE		
		SPACE		133	0			134		SPACE		
		SPACE		135		0		136		SPACE		
		SPACE		137			0	138		SPACE		
		SPACE		139	0			140		SPACE		
		SPACE		141		0		142		SPACE		
		SPACE		143			0	144		SPACE		
		SPACE		145	0			146		SPACE		
		SPACE		147		0		148		SPACE		
		SPACE		149			0	150		SPACE		
		SPACE		151	0			152		SPACE		
		SPACE		153		0		154		SPACE		
		SPACE		155			0	156		SPACE		
		SPACE		157	0			158		SPACE		
		SPACE		159		0		160		SPACE		
		SPACE		161			0	162		SPACE		
		SPACE		163	0			164		SPACE		
		SPACE		165		0		166		SPACE		
		SPACE		167			0	168		SPACE		
		TOTAL	19800	17000	16200			TOTAL CONNECTED LOAD				165.00
								REQUIRED AMPACITY (AMPS)				206.25

METERING NOTES:

1. METER INDIVIDUAL BREAKERS IN LP-8, LP-9, LP-EM9, PP-SB8, AND PP-SB9.
2. METER ENTIRE PANEL FOR RP-8A, RP-8B, RP-OS8, RP-CER8, RP-9A, RP-9B, RP-OS9, AND RP-CER9.

PANEL: RP-CER8
VOLTAGE: 120 208V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 60A | MAIN CB TRIP: MLO
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS): 10,000

DEVICE:		BRANCH CIRCUIT			PHASE LOAD (VOLT - AMPS)			BRANCH CIRCUIT			DEVICE:	
AMPS TRIP	POLES	DESIGNATION	VOLTS-AMPS	NO.	∅ A	∅ B	∅ C	NO.	VOLTS-AMPS	DESIGNATION	POLES	AMPS TRIP
20	1	CER 850	1000	1	2000			2	1000	CER 850	1	20
20	1	CER 850	1000	3		2000		4	1000	CER 850	1	20
20	1	CER 850	1000	5			2000	6	1000	CER 850	1	20
30	2	CER 850	1500	7	1500			8		SPACE		
			1500	9		1500		10		SPACE		
30	2	CER 850	1500	11			1500	12		SPACE		
			1500	13	1500			14		SPACE		
		SPACE		15		0		16		SPACE		
		SPACE		17			0	18		SPACE		
		SPACE		19	0			20		SPACE		
		SPACE		21		0		22		SPACE		
		SPACE		23			0	24		SPACE		
		TOTAL	5000	3500	3500			TOTAL CONNECTED LOAD				41.67
								REQUIRED AMPACITY (AMPS)				52.08

PANEL: PP-SB9
VOLTAGE: 277 /480V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 200A. | MAIN CB TRIP: MLO
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS):

DEVICE:		BRANCH CIRCUIT			PHASE LOAD (VOLT - AMPS)			BRANCH CIRCUIT			DEVICE:	
AMPS TRIP	POLES	DESIGNATION	VOLTS-AMPS	NO.	∅ A	∅ B	∅ C	NO.	VOLTS-AMPS	DESIGNATION	POLES	AMPS TRIP
30	1	CRAC-2a	7500	1	7500			2		SPACE		
30	1	CRAC-2b	2700	3		2700		4		SPACE		
		SPACE		5			0	6		SPACE		
		SPACE		7	0			8		SPACE		
		SPACE		9		0		10		SPACE		
		SPACE		11			0	12		SPACE		
		SPACE		13	0			14		SPACE		
		SPACE		15		0		16		SPACE		
		SPACE		17			0	18		SPACE		
		SPACE		19	0			20		SPACE		
		SPACE		21		0		22		SPACE		
		SPACE		23			0	24		SPACE		
		SPACE		25	0			26		SPACE		
		SPACE		27		0		28		SPACE		
		SPACE		29			0	30		SPACE		
		SPACE		31	0			32		SPACE		
		SPACE		33		0		34		SPACE		
		SPACE		35			0	36		SPACE		
		SPACE		37	0			38		SPACE		
		SPACE		39		0		40		SPACE		
		SPACE		41			0	42		SPACE		
		TOTAL	7500	2700	0			TOTAL CONNECTED LOAD				27.08
								REQUIRED AMPACITY (AMPS)				33.84

PANEL: RP-8B I
VOLTAGE: 120 /208V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 400A. | MAIN CB TRIP: 400A, MCB
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS):

DEVICE:		BRANCH CIRCUIT			PHASE LOAD (VOLT - AMPS)			BRANCH CIRCUIT			DEVICE:	
AMPS TRIP	POLES	DESIGNATION	VOLTS-AMPS	NO.	∅ A	∅ B	∅ C	NO.	VOLTS-AMPS	DESIGNATION	POLES	AMPS TRIP
20	1	LAB 824 BENCH	600	1	1200			2	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	3		1200		4	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	5			1200	6	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	7	1200			8	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	9		1200		10	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	11			1200	12	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	13	1200			14	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	15		1200		16	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	17			1200	18	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	19	1200			20	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	21		1200		22	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	23			1200	24	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	25	1200			26	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	27		1100		28	500	FIRE DAMPER	1	20
20	1	LAB 824 BENCH	600	29			1100	30	500	FIRE DAMPER	1	20
20	1	LAB 824 BENCH	600	31	1100			32	500	GAS SHUTOFF	1	20
20	1	LAB 824 BENCH	600	33		1200		34	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	35			1200	36	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	37	1100			38	500	INSTRUMENT 824H	1	20
20	1	LAB 824 BENCH	600	39		1600		40	1000	INSTRUMENT 824H	1	20
20	1	LAB 824 BENCH	600	41			1200	42	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	43	1200			44	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	45		1200		46	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	47			1200	48	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	49	1200			50	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	51		1200		52	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	53			1200	54	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	55	1200			56	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	57		1200		58	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	59			1200	60	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	61	1200			62	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	63		1200		64	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	65			1200	66	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	67	1200			68	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	69		1200		70	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	71			1200	72	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	73	1200			74	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	75		1200		76	600	LAB 824 BENCH	1	20
20	1	LAB 824 BENCH	600	77			2100	78	1500	LAB 824C EQUIP	1	20
20	1	LAB 824 BENCH	600	79	2100			80	1500	LAB 824C EQUIP	1	20
20	1	LAB 824 BENCH	600	81		2100		82	1500	LAB 824C EQUIP	1	20
20	1	LAB 824 BENCH	600	83			2100	84	1500	LAB 824C EQUIP	1	20

PANEL: RP-8B II
VOLTAGE: 120 /208V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 400A. | MAIN CB TRIP: MLO
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS):

DEVICE:		BRANCH CIRCUIT			PHASE LOAD (VOLT - AMPS)			BRANCH CIRCUIT			DEVICE:	
AMPS TRIP	POLES	DESIGNATION	VOLTS-AMPS	NO.	∅ A	∅ B	∅ C	NO.	VOLTS-AMPS	DESIGNATION	POLES	AMPS TRIP
30	2	LAB EQUIP 824C	1500	85	2500			86	1000	OPEN LAB 824	1	20
			1500	87		2500		88	1000	OPEN LAB 824	1	20
30	2	LAB EQUIP 824C	1500	89			2500	90	1000	OPEN LAB 824	1	20
			1500	91	2500			92	1000	OPEN LAB 824	1	20
30	2	LAB EQUIP 824C	1500	93		2500		94	1000	OPEN LAB 824	1	20
			1500	95			2500	96	1000	OPEN LAB 824	1	20
20	1	LAB EQUIP 824C	500	97	1500			98	1000	INSTRUMENT 824G	1	20
20	1	LAB EQUIP 824C	500	99		1500		100	1000	INSTRUMENT 824G	1	20
20	1	LAB EQUIP 824C	500	101			1500	102	1000	INSTRUMENT 824G	1	20
20	1	LAB EQUIP 824C	500	103	1000			104	500	F/S DAMPERS	1	20
20	1	SPARE		105		3500		106	3500	EWH-1	1	40
		SPACE		107			0	108		SPACE		
		SPACE		109	0			110		SPACE		
		SPACE		111		0		112		SPACE		
		SPACE		113			0	114		SPACE		
		SPACE		115	0			116		SPACE		
		SPACE		117		0		118		SPACE		
		SPACE		119			0	120		SPACE		
		SPACE		121	0			122		SPACE		
		SPACE		123		0		124		SPACE		
		SPACE		125			0	126		SPACE		
		SPACE		127	0			128		SPACE		
		SPACE		129		0		130		SPACE		
		SPACE		131			0	132		SPACE		
		SPACE		133	0			134		SPACE		
		SPACE		135		0		136		SPACE		
		SPACE		137			0	138		SPACE		
		SPACE		139	0			140		SPACE		
		SPACE		141		0		142		SPACE		
		SPACE		143			0	144		SPACE		
		SPACE		145	0			146		SPACE		
		SPACE		147		0		148		SPACE		
		SPACE		149			0	150		SPACE		
		SPACE		151	0			152		SPACE		
		SPACE		153		0		154		SPACE		
		SPACE		155			0	156		SPACE		
		SPACE		157	0			158		SPACE		
		SPACE		159		0		160		SPACE		
		SPACE		161			0	162		SPACE		
		SPACE		163	0			164		SPACE		
		SPACE		165		0		166		SPACE		
		SPACE		167			0	168		SPACE		
		TOTAL	25000	28000	25000			TOTAL CONNECTED LOAD				233.33
								REQUIRED AMPACITY (AMPS)				291.67

PANEL: PP-SB8
VOLTAGE: 277 /480V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 200A. | MAIN CB TRIP: MLO
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS):

DEVICE:		BRANCH CIRCUIT			PHASE LOAD (VOLT - AMPS)			BRANCH CIRCUIT			DEVICE:	
AMPS TRIP	POLES	DESIGNATION	VOLTS-AMPS	NO.	∅ A	∅ B	∅ C	NO.	VOLTS-AMPS	DESIGNATION	POLES	AMPS TRIP
30	1	CRAC-1a	7500	1	7500			2		SPACE		
30	1	CRAC-1b	2700	3		2700		4		SPACE		
		SPACE		5			0	6		SPACE		
		SPACE		7	0			8		SPACE		
		SPACE		9		0		10		SPACE		
		SPACE		11			0	12		SPACE		
		SPACE		13	0			14		SPACE		
		SPACE		15		0		16		SPACE		
		SPACE		17			0	18		SPACE		
		SPACE		19	0			20		SPACE		
		SPACE		21		0		22		SPACE		
		SPACE		23			0	24		SPACE		
		SPACE		25	0			26		SPACE		
		SPACE		27		0		28		SPACE		
		SPACE		29			0	30		SPACE		
		SPACE		31	0			32		SPACE		
		SPACE		33		0		34		SPACE		
		SPACE		35			0	36		SPACE		
		SPACE		37	0			38		SPACE		
		SPACE		39		0		40		SPACE		
		SPACE		41			0	42		SPACE		
		TOTAL	7500	2700	0			TOTAL CONNECTED LOAD				27.08
								REQUIRED AMPACITY (AMPS)				33.84

PANEL: RP-8A I
VOLTAGE: 120 /208V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 400A. | MAIN CB TRIP: 400A, MCB
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS): -

DEVICE:		BRANCH CIRCUIT			PHASE LOAD (VOLT - AMPS)			BRANCH CIRCUIT			DEVICE:	
AMPS TRIP	POLES	DESIGNATION	VOLTS-AMPS	NO.	∅ A	∅ B	∅ C	NO.	VOLTS-AMPS	DESIGNATION	POLES	AMPS TRIP
20	1	LAB 818 BENCH	600	1	1400			2	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	3		1400		4	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	5			1400	6	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	7	1400			8	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	9		1400		10	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	11			1400	12	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	13	1400			14	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	15		1400		16	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	17			1400	18	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	19	1400			20	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	21		1400		22	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	23			600	24		SPARE	1	20
20	1	LAB 818 BENCH	600	25	1400			26	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	27		1400		28	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	29			1400	30	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	31	1400			32	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	33		1400		34	800	OFFICE RECEPT	1	20
20	1	LAB 818 BENCH	600	35			1400	36	800	LAB DESK	1	20
20	1	LAB 818 BENCH	600	37	1200			38	600	LAB DESK	1	20
20	1	LAB 818 BENCH	600	39		1200		40	600	LAB DESK	1	20
20	1	LAB 818 BENCH	600	41			1400	42	800	LAB DESK	1	20
20	1	LAB

PANEL: LP-EM9
VOLTAGE: 277 /480V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 200A. | MAIN CB TRIP: MLO
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS): *

DEVICE: AMPS TRIP	POLES	BRANCH CIRCUIT DESIGNATION	VOLTS-AMPS	NO.	PHASE LOAD (VOLT - AMPS) ∅ A	∅ B	∅ C	NO.	BRANCH CIRCUIT VOLTS-AMPS	BRANCH CIRCUIT DESIGNATION	DEVICE: POLES	DEVICE: AMPS TRIP
20	1	8th FLR COMMON SPACES LTS	1000	1	1000			2		SPACE		
20	1	8th FLR WEST LAB LTS	600	3		600		4		SPACE		
20	1	8tH FLR EAST LAB LTS	1200	5			1200	6		SPACE		
20	1	9th FLR COMMON SPACES LTS	1200	7	1200			8		SPACE		
20	1	9th FLR WEST LAB LTS	800	9		800		10		SPACE		
20	1	SPARE		11			0	12		SPACE		
20	1	SPARE		13	0			14		SPACE		
20	1	SPARE		15		0		16		SPACE		
20	1	SPARE		17			0	18		SPACE		
		SPACE		19	0			20		SPACE		
		SPACE		21		0		22		SPACE		
		SPACE		23			0	24		SPACE		
		SPACE		25	0			26		SPACE		
		SPACE		27		0		28		SPACE		
		SPACE		29			0	30		SPACE		
		SPACE		31	0			32		SPACE		
		SPACE		33		0		34		SPACE		
		SPACE		35			0	36		SPACE		
80	3	TX-EM9	10000	37	10000			38		SPACE		
			7000	39		7000		40		SPACE		
			7000	41			7000	42		SPACE		
		TOTAL			12200	8400	8200			TOTAL CONNECTED LOAD		44.04
										REQUIRED AMPACITY (AMPS)		55.05

PANEL: RP-OS9 SECTION I — DOUBLE LUG
VOLTAGE: 120 /208V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 250A. | MAIN CB TRIP: 250A. MCB
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS):

DEVICE: AMPS TRIP	POLES	BRANCH CIRCUIT DESIGNATION	VOLTS-AMPS	NO.	PHASE LOAD (VOLT - AMPS) ∅ A	∅ B	∅ C	NO.	BRANCH CIRCUIT VOLTS-AMPS	BRANCH CIRCUIT DESIGNATION	DEVICE: POLES	DEVICE: AMPS TRIP
20	1	LAB EQUIPMENT	500	1	500			2		SPARE	1	20
20	1	LAB EQUIPMENT	500	3		1000		4	500	CELL CULTURE 925B	1	20
20	1	LAB EQUIPMENT	500	5			1000	6	500	CELL CULTURE 925B	1	20
20	1	LAB EQUIPMENT	500	7	1000			8	500	CELL CULTURE 925B	1	20
20	1	LAB EQUIPMENT	500	9		1000		10	500	CELL CULTURE 925B	1	20
20	1	LAB EQUIPMENT	500	11			1000	12	500	CELL CULTURE 925B	1	20
20	1	LAB EQUIPMENT	500	13	1000			14	500	CELL CULTURE 925B	1	20
20	1	LAB EQUIPMENT	500	15		1000		16	500	CELL CULTURE 925B	1	20
20	1	LAB EQUIPMENT	500	17			1000	18	500	CELL CULTURE 925B	1	20
20	1	LAB EQUIPMENT	500	19	1500			20	1000	DOOR PWR	1	20
20	1	LAB EQUIPMENT	500	21		1700		22	1200	DOOR PWR	1	20
20	1	LAB EQUIPMENT	500	23			1000	24	500	EQUIPMENT	1	20
20	1	LAB EQUIPMENT	500	25	1000			26	500	EQUIPMENT	1	20
20	1	LAB EQUIPMENT	500	27		1000		28	500	EQUIPMENT	1	20
20	2	EQUIPMENT 925C	1500	29			2000	30	1500	EQUIPMENT	1	20
			1500	31	1500			32		SPARE	1	20
20	1	EQUIPMENT 925C	500	33		1000		34	500	EQUIPMENT	1	20
20	1	EQUIPMENT 925C	500	35			2000	36	1500	LAB EQUIPMENT	2	30
20	1	EQUIPMENT 925C	500	37	2000			38	1500			
20	1	EQUIPMENT 925C	500	39		2000		40	1500	LAB EQUIPMENT	3	20
20	1	SPARE		41			1500	42	1500			
20	1	LAB EQUIPMENT	400	43	1900			44	1500	LAB EQUIPMENT	4	30
20	1	LAB EQUIPMENT	400	45		1900		46	1500			
20	1	LAB EQUIPMENT	400	47			400	48		SPARE	1	20
20	1	LAB EQUIPMENT	500	49	500			50		SPARE	1	20
20	1	LAB EQUIPMENT	500	51		500		52		SPARE	1	20
20	1	LAB EQUIPMENT	500	53			500	54		SPARE	1	20
20	1	LAB EQUIPMENT	500	55	1300			56	800	CYL STORAGE	1	20
20	1	LAB EQUIPMENT	500	57		900		58	400	CELL CULTURE 917D	1	20
20	1	LAB EQUIPMENT	500	59			900	60	400	CELL CULTURE 917D	1	20
20	1	LAB EQUIPMENT	500	61	900			62	400	SUPPORT 917E	1	20
20	1	SPARE		63		400		64	400	CELL CULTURE 917C	1	20
		SPACE		65			400	66	400	CELL CULTURE 917C	1	20
		SPACE		67	400			68	400	CELL CULTURE 917C	1	20
20	1	LAB EQUIPMENT	500	69		900		70	400	CELL CULTURE 917C	1	20
20	1	LAB EQUIPMENT	500	71			900	72	400	CELL CULTURE 917C	1	20
20	1	LAB EQUIPMENT	500	73	900			74	400	CELL CULTURE 917C	1	20
20	1	LAB EQUIPMENT	500	75		900		76	400	CELL CULTURE 917B	1	20
20	1	LAB EQUIPMENT	500	77			900	78	400	CELL CULTURE 917B	1	20
20	1	LAB EQUIPMENT	500	79	900			80	400	CELL CULTURE 917B	1	20
20	1	LAB EQUIPMENT	500	81		900		82	400	CELL CULTURE 917B	1	20
20	1	LAB EQUIPMENT	500	83			900	84	400	CELL CULTURE 917B	1	20

PANEL: RP-OS9 SECTION II
VOLTAGE: 120 /208V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 250A. | MAIN CB TRIP:
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS):

DEVICE: AMPS TRIP	POLES	BRANCH CIRCUIT DESIGNATION	VOLTS-AMPS	NO.	PHASE LOAD (VOLT - AMPS) ∅ A	∅ B	∅ C	NO.	BRANCH CIRCUIT VOLTS-AMPS	BRANCH CIRCUIT DESIGNATION	DEVICE: POLES	DEVICE: AMPS TRIP
20	1	LAB EQUIPMENT 917	500	85	900			86	400	CELL CULTURE 917B	1	20
20	1	LAB EQUIPMENT 925	500	87		900		88	400	CELL CULTURE 925B	1	20
20	1	SPARE		89			400	90	400	CELL CULTURE 925B	1	20
20	1	SPARE		91	400			92	400	CELL CULTURE 925B	1	20
30	2	LAB EQUIPMENT 925C	1500	93		1900		94	400	CELL CULTURE 925B	1	20
			1500	95			1900	96	400	CELL CULTURE 925B	1	20
20	1	SPARE		97	400			98	400	CELL CULTURE 925B	1	20
20	1	CELL CULTURE 925A	500	99		900		100	400	CELL CULTURE 925A	1	20
20	2	LAB EQUIPMENT 925C	1500	101			1900	102	400	CELL CULTURE 925B	1	20
			1500	103	1900			104	400	CELL CULTURE 925B	1	20
20	2	LAB EQUIPMENT 925C	1500	105		2700		106	1200	LAB EQUIP 925C	1	20
			1500	107			3000	108	1500	MICROSCOPY	2	30
20	1	SPARE		109	1500			110	1500			
20	1	CELL CULTURE 925A	500	111		2000		112	1500	MICROSCOPY	2	30
20	2	LAB EQUIPMENT 925C	1500	113			3000	114	1500			
			1500	115	2000			116	500	MICROSCOPY	1	20
20	2	MICROSCOPY	1500	117		2000		118	500	MICROSCOPY	1	20
			1500	119			2000	120	500	MICROSCOPY	1	20
		SPACE		121	0			122		SPACE		
		SPACE		123		0		124		SPACE		
		SPACE		125			0	126		SPACE		
		SPACE		127	0			128		SPACE		
		SPACE		129		0		130		SPACE		
		SPACE		131			0	132		SPACE		
		SPACE		133	0			134		SPACE		
		SPACE		135		0		136		SPACE		
		SPACE		137			0	138		SPACE		
		SPACE		139	0			140		SPACE		
		SPACE		141		0		142		SPACE		
		SPACE		143			0	144		SPACE		
		SPACE		145	0			146		SPACE		
		SPACE		147		0		148		SPACE		
		SPACE		149			0	150		SPACE		
		SPACE		151	0			152		SPACE		
		SPACE		153		0		154		SPACE		
		SPACE		155			0	156		SPACE		
		SPACE		157	0			158		SPACE		
		SPACE		159		0		160		SPACE		
		SPACE		161			0	162		SPACE		
		SPACE		163	0			164		SPACE		
		SPACE		165		0		166		SPACE		
		SPACE		167			0	168		SPACE		
		TOTAL			22400	25500	26600			TOTAL CONNECTED LOAD		221.67
										REQUIRED AMPACITY (AMPS)		277.08

PANEL: LP-9
VOLTAGE: 277 /480V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 400A. | MAIN CB TRIP: MLO
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS): *

DEVICE: AMPS TRIP	POLES	BRANCH CIRCUIT DESIGNATION	VOLTS-AMPS	NO.	PHASE LOAD (VOLT - AMPS) ∅ A	∅ B	∅ C	NO.	BRANCH CIRCUIT VOLTS-AMPS	BRANCH CIRCUIT DESIGNATION	DEVICE: POLES	DEVICE: AMPS TRIP
20	1	LAB 925 LTS	2900	1	5900			2	3000	FCU-1b	1	20
20	1	LAB 925 LTS	2900	3		5900		4	3000	FCU-2b	1	20
20	1	LAB 917 LTS	1800	5			1800	6		SPACE		
20	1	LAB 917 LTS	1800	7	1800			8		SPACE		
20	1	CORE AREA LTS		9		0		10		SPACE		
20	1	OFC LAB LTS		11			0	12		SPACE		
20	1	OFC LTS		13	0			14		SPACE		
20	1	EQUIP, SUPPORT LTS		15		0		16		SPACE		
20	1	SPARE		17			0	18		SPACE		
20	1	SPARE		19	0			20		SPACE		
20	1	SPARE		21		0		22		SPACE		
20	1	SPARE		23			0	24		SPACE		
20	1	SPARE		25	0			26		SPACE		
20	1	SPARE		27		0		28		SPACE		
		SPACE		29			0	30		SPACE		
		SPACE		31	0			32		SPACE		
		SPACE		33		0		34		SPACE		
		SPACE		35			0	36		SPACE		
200	3	RP-9A	21600	37	21600			38		SPACE		
			22000	39		22000		40		SPACE		
			20600	41			20600	42		SPACE		
		TOTAL			29300	27900	22400			TOTAL CONNECTED LOAD		105.78
										REQUIRED AMPACITY (AMPS)		132.22

PANEL: RP-CER9
VOLTAGE: 120 208V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 60A | MAIN CB TRIP: MLO
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS): 10,000

DEVICE: AMPS TRIP	POLES	BRANCH CIRCUIT DESIGNATION	VOLTS-AMPS	NO.	PHASE LOAD (VOLT - AMPS) ∅ A	∅ B	∅ C	NO.	BRANCH CIRCUIT VOLTS-AMPS	BRANCH CIRCUIT DESIGNATION	DEVICE: POLES	DEVICE: AMPS TRIP
20	1	CER 950	1000	1	2000			2	1000	CER 950	1	20
20	1	CER 950	1000	3		2000		4	1000	CER 950	1	20
20	1	CER 950	1000	5			2000	6	1000	CER 950	1	20
30	2	CER 950	1500	7	1500			8		SPACE		
			1500	9		1500		10		SPACE		
30	2	CER 950	1500	11			1500	12		SPACE		
			1500	13	1500			14		SPACE		
		SPACE		15		0		16		SPACE		
		SPACE		17			0	18		SPACE		
		SPACE		19	0			20		SPACE		
		SPACE		21		0		22		SPACE		
		SPACE		23			0	24		SPACE		
		TOTAL	5000	3500	3500					TOTAL CONNECTED LOAD		41.67
										REQUIRED AMPACITY (AMPS)		52.08

PANEL: RP-9A SECTION I — DOUBLE LUG
VOLTAGE: 120 /208V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 400A. | MAIN CB TRIP: 400A. MCB
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS):

DEVICE: AMPS TRIP	POLES	BRANCH CIRCUIT DESIGNATION	VOLTS-AMPS	NO.	PHASE LOAD (VOLT - AMPS) ∅ A	∅ B	∅ C	NO.	BRANCH CIRCUIT VOLTS-AMPS	BRANCH CIRCUIT DESIGNATION	DEVICE: POLES	DEVICE: AMPS TRIP
20	1	LAB BENCH	600	1	1200			2	600	LAB BENCH	1	20
20	1	LAB BENCH	600	3		1200		4	600	LAB BENCH	1	20
20	1	LAB BENCH	600	5			1200	6	600	LAB BENCH	1	20
20	1	LAB BENCH	600	7	1200			8	600	LAB BENCH	1	20
20	1	LAB BENCH	600	9		1200		10	600	LAB BENCH	1	20
20	1	LAB BENCH	600	11			1200	12	600	LAB BENCH	1	20
20	1	LAB BENCH	600	13	1200			14	600	LAB BENCH	1	20
20	1	LAB BENCH	600	15		1200		16	600	LAB BENCH	1	20
20	1	LAB BENCH	600	17			1200	18	600	LAB BENCH	1	20
20	1	LAB BENCH	600	19	1200			20	600	LAB BENCH	1	20
20	1	LAB BENCH	600	21		600		22		SPARE	1	20
20	1	LAB BENCH	600	23			600	24		SPARE	1	20
20	1	LAB BENCH	600	25	600			26		SPARE	1	20
20	1	LAB BENCH	600	27		600		28		SPARE	1	20
20	1	LAB BENCH	600	29			600	30		SPARE	1	20
20	1	LAB BENCH	600	31	600			32		SPARE	1	20
20	1	LAB BENCH	600	33		600		34		SPARE	1	20
20	1	LAB BENCH	600	35	500			36		SPARE	1	20
20	1	LAB BENCH	600	37	600			38		SPARE	1	20
20	1	LAB BENCH	600	39		600		40		SPARE	1	20
20	1	LAB BENCH	600	41			1200	42	600	LAB BENCH	1	20
20	1	LAB BENCH	600	43	1600			44	1000	LAB DESK	1	20
20	1	LAB BENCH	600	45		1600		46	1000	LAB DESK	1	20
20	1	LAB BENCH	600	47			1600	48	1000	LAB DESK	1	20
20	1	LAB BENCH	600	49	1600			50	1000	BREAK AREA	1	20
20	1	LAB BENCH	600	51		1600		52	1000	BREAK AREA	1	20
20	1	LAB BENCH	600	53			1600	54	1000	BREAK AREA	1	20
20	1	LAB BENCH	600	55	1800			56	1200	OFFICE RECEPTACLES	1	20
20	1	LAB BENCH	600	57		1600		58	1000	OFFICE RECEPTACLES	1	20
20	1	LAB BENCH	600	59			1400	60	800	OFFICE RECEPTACLES	1	20
20	1	LAB BENCH	600	61	1400			62	800	OFFICE RECEPTACLES	1	20
20	1	LAB BENCH	600	63		1400		64	800	OFFICE RECEPTACLES	1	20
20	1	LAB BENCH	600	65			1400	66	800	OFFICE RECEPTACLES	1	20
20	1	LAB BENCH	600	67	1000			68	400	OFFICE RECEPTACLES	1	20
20	1	LAB BENCH	600	69		1800		70	1200	OFFICE RECEPTACLES	1	20
20	1	LAB BENCH	600	71			1200	72	600	OFFICE RECEPTACLES	1	20
20	1	LAB BENCH	600	73	1200			74	600	OFFICE RECEPTACLES	1	20
20	1	LAB BENCH	600	75		1000		76	400	OFFICE RECEPTACLES	1	20
20	1	LAB BENCH	600	77			1400	78	800	OFFICE RECEPTACLES	1	20
20	1	LAB BENCH	600	79	1400			80	800	OFFICE RECEPTACLES	1	20
20	1	LAB BENCH	600	81		1400		82	800	OFFICE RECEPTACLES	1	20
20	1	LAB BENCH	600	83			1000	84	400	OFFICE RECEPTACLES	1	20

PANEL: RP-9A SECTION II
VOLTAGE: 120 /208V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 400A. | MAIN CB TRIP: MLO
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS):

DEVICE: AMPS TRIP	POLES	BRANCH CIRCUIT DESIGNATION	VOLTS-AMPS	NO.	PHASE LOAD (VOLT - AMPS) ∅ A	∅ B	∅ C	NO.	BRANCH CIRCUIT VOLTS-AMPS	BRANCH CIRCUIT DESIGNATION	DEVICE: POLES	DEVICE: AMPS TRIP
20	1	OFFICE RECEPTACLES	1200	85	2000			86	800	SUPPORT 917E	1	20
20	1	OFFICE RECEPTACLES	1200	87		2000		88	800	SUPPORT 917E	1	20
20	1	OFFICE RECEPTACLES	1200	89			1600	90	400	OPEN LAB 917A	1	20
20	1	OFFICE RECEPTACLES	800	91	1200			92	400	OPEN LAB 917B	1	20
20	1	COFFEE RECEPTACLE	400	93		800		94	400	OPEN LAB 917B	1	20
20	1	COFFEE RECEPTACLE	400	95			800	96	400	OPEN LAB 917B	1	20
20	1	COFFEE RECEPTACLE	400	97	800			98	400	OPEN LAB 917B	1	20
20	1	CONFERENCE RECEPT	800	99		1200		100	400	OPEN LAB 917B	1	20
20	1	CONFERENCE RECEPT	1000	101			1400	102	400	OPEN LAB 917B	1	20
20	1	COFFEE RECEPTACLE	1200	103	1600			104	400	OPEN LAB 917D	1	20
20	1	COFFEE RECEPTACLE	1200	105		1600		106	400	OPEN LAB 917D	1	20
30	2	LAB EQUIP 917A	1500	107			2500	108	1000	OPEN LAB 917F FH	1	20
			1500	109	3000			110	1500	LAB EQUIP 925C	2	30
30	2	LAB EQUIP 917A	1500	111		3000		112	1500			
			1500	113			3000	114	1500	LAB EQUIP 925C	2	30
30	2	LAB EQUIP 917A	1500	115	3000			116	1500			
			1500	117		3000		118	1500	LAB EQUIP 925C	2	30
30	2	LAB EQUIP 917A	1500	119			3000	120	1500			
			1500	121	5000			122	3500	EWH-2	1	40
30	2	LAB EQUIP 917A	1500	123		1500		124		SPACE		
			1500	125			1500	126		SPACE		
20	1	LAB EQUIP 917A	500	127	500			128		SPACE		
20	1	LAB EQUIP 917A	500	129		500		130		SPACE		
20	1	LAB EQUIP 917A	500	131			500	132		SPACE		
20	1	LAB EQUIP 917A	500	133	500			134		SPACE		
		SPACE		135		0		136		SPACE		
		SPACE		137			0	138		SPACE		
		SPACE		139	0			140		SPACE		
		SPACE		141		0		142		SPACE		
		SPACE		143			0	144		SPACE		
		SPACE		145	0			146		SPACE		
		SPACE		147		0		148		SPACE		
		SPACE		149			0	150		SPACE		
		SPACE		151	0			152		SPACE		
		SPACE		153		0		154		SPACE		
		SPACE		155			0	156		SPACE		
		SPACE		157	0			158		SPACE		
		SPACE		159		0		160		SPACE		
		SPACE		161			0	162		SPACE		
		SPACE		163	0			164		SPACE		
		SPACE		165		0		166		SPACE		
		SPACE		167			0	168		SPACE		
		TOTAL	34200		30000	30500				TOTAL CONNECTED LOAD		285.00
										REQUIRED AMPACITY (AMPS)		356.25

PANEL: RP-EM9
VOLTAGE: 120 208V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 200A | MAIN CB TRIP: 150A MCB
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS):

DEVICE: AMPS TRIP	POLES	BRANCH CIRCUIT DESIGNATION	VOLTS-AMPS	NO.	PHASE LOAD (VOLT - AMPS) ∅ A	∅ B	∅ C	NO.	BRANCH CIRCUIT VOLTS-AMPS	BRANCH CIRCUIT DESIGNATION	DEVICE: POLES	DEVICE: AMPS TRIP
			5000	1	10000			2	5000			
60	3	RP-CER8	3500	3		7000		4	3500	RP-CER9	3	60
			3500	5			7000	6	3500			
		SPACE		7	0			8		SPACE		
		SPACE		9		0		10		SPACE		
		SPACE		11			0	12		SPACE		
		SPACE		13	0			14		SPACE		
		SPACE		15		0		16		SPACE		
		SPACE		17			0	18		SPACE		
		SPACE		19	0			20		SPACE		
		SPACE		21		0		22		SPACE		
		SPACE		23			0	24		SPACE		
		SPACE		25	0			26		SPACE		
		SPACE		27		0		28		SPACE		
		SPACE		29			0	30		SPACE		
		SPACE		31	0			32		SPACE		
		SPACE		33		0		34		SPACE		
		SPACE		35			0	36		SPACE		
		SPACE		37	0			38		SPACE		
		SPACE		39		0		40		SPACE		
		SPACE		41			0	42		SPACE		
		TOTAL	10000		7000	7000				TOTAL CONNECTED LOAD		83.33
										REQUIRED AMPACITY (AMPS)		104.17

PANEL: RP-9B SECTION I — DOUBLE LUG
VOLTAGE: 120 /208V | PHASE/WIRE: 3P., 4W. | MAIN BUS RATING: 400A | MAIN CB TRIP: 400A MCB
MOUNTING: SURFACE | MINIMUM BREAKER INTERRUPTING CAPACITY (RMS SYM AMPS):

DEVICE: AMPS TRIP	POLES	BRANCH CIRCUIT DESIGNATION	VOLTS-AMPS	NO.	PHASE LOAD (VOLT - AMPS) ∅ A	∅ B	∅ C	NO.	BRANCH CIRCUIT VOLTS-AMPS	BRANCH CIRCUIT DESIGNATION	DEVICE: POLES	DEVICE: AMPS TRIP
20	1	LAB BENCH	600	1	1200			2	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	3		1200		4	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	5			1200	6	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	7	1200			8	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	9		1200		10	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	11			1200	12	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	13	1200			14	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	15		1200		16	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	17			1200	18	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	19	1200			20	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	21		1200		22	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	23			1200	24	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	25	1200			26	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	27		1200		28	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	29			1200	30	600	LAB BENCH 925	1	20
20	1	LAB BENCH	600	31	1200			32	600	LAB BENCH 925	1	20
20	1

EQUIPMENT SCHEDULE

MARK	DESCRIPTION	ELECTRICAL CHARACTERISTICS VOLT/PHASE	KW	HP	FLA	PANEL	DISCONNECT SW. SIZE	DISCONNECT SW. FUSE	FEEDER	REMARKS
AC 1	FAN ARRAY FOR AHU-1	480/3			315.5	FP-EM	400/3	400	400DG	1., 2., 3., 9.
AC 2	FAN ARRAY FOR AHU-2	480/3			308	FP-EM	400/3	400	400DG	1., 2., 4., 9.
CP 1	DOMESTIC HOT WATER RETURN	120/1		1/12		RP-EMG	30/1	15	20SG	1., 2., 7.
CP 2	LAB HOT WATER RETURN	120/1		1/12		RP-EMG	30/1	15	20SG	1., 2., 7.
CRAC 1a	AIR CONDITIONER	277/1			27	PP-OSB8	30/1	30	30SG	1., 2.
CRAC 1b	CONDENSATE PUMP	277/1			10	PP-OSB8	30/1	15	20SG	1., 2.
CRAC 2a	AIR CONDITIONER	277/1			27	PP-OSB9	30/1	30	30SG	1., 2.
CRAC 2b	CONDENSATE PUMP	277/1			10	PP-OSB9	30/1	15	20SG	1., 2.
CRU 1	CRU UNIT	480/3				LP-EMG	30/3	20	30DG	1., 2., 9.
EF 1	EXHAUST FAN	480/3			384	MCC-EMPH	400/3	400	400DG	1., 2., 5.
EF 2	EXHAUST FAN	480/3			384	MCC-EMPH	400/3	400	400DG	1., 2., 5.
EWH 1	ELECTRIC WATER HEATER	120/1	3.5			RP-8B	60/3	40	40SG	1., 2.
EWH 2	ELECTRIC WATER HEATER	120/1	3.5			RP-9A	60/3	40	40SG	1., 2.
FCU 1a	FAN COIL UNIT	277/1		1/8		LP-8	30/1	15	20SG	1., 2.
FCU 1b	FAN COIL UNIT	277/1		1/8		LP-9	30/1	15	20SG	1., 2.
FCU 2a	FAN COIL UNIT	277/1		1/8		LP-8	30/1	15	20SG	1., 2.
FCU 2b	FAN COIL UNIT	277/1		1/8		LP-9	30/1	15	20SG	1., 2.
PHP 1	PREHEAT PUMP	480/3		15		MCC-EMG	60/3	40	40DG	1., 2., 5.
PHP 2	PREHEAT PUMP	480/3		15		MCC-EMG	60/3	40	40DG	1., 2., 5.
PWE 1	PURIFIED WATER EQUIPMENT	480/3			42	MCC-GN	60/3	45	50DG	1., 2., 8.
RHP 1	REHEAT PUMP	480/3		5		MCC-EMG	30/3	15	30DG	1., 2., 5.
RHP 2	REHEAT PUMP	480/3		5		MCC-EMG	30/3	15	30DG	1., 2., 5.
WBP 1	DOMESTIC WATER PUMP	480/3		10		FP-EM	30/3	25	30DG	1., 2., 6.
WH 1	WATER HEATER	120/1				RP-EMG	-	-	20SG	1., 2.
WH 2	WATER HEATER	120/1				RP-EMG	-	-	20SG	1., 2.
WH 3	WATER HEATER	120/1				RP-EMG	-	-	20SG	1., 2.

NOTES:

1. VERIFY NAMEPLATE DATA PRIOR TO ROUGH-IN.
2. PROVIDE REQUIRED WORKING CLEARANCE FOR ALL DISCONNECTS.
3. REPLACES EXISTING 'AC-1' UNIT IN PANEL 'FP-EM'. PULL NEW FEEDERS. REPLACE BREAKER IN EXISTING PANEL.
4. REPLACES EXISTING 'AC-2' UNIT IN PANEL 'FP-EM'. PULL NEW FEEDERS. REPLACE BREAKER IN EXISTING PANEL.
5. REPLACES UNIT IN EXISTING MCC. SEE SCHEDULE THIS SHEET.
6. REPLACING DOMESTIC WATER PUMPS IN 'FP-EM'.
7. PROVIDE NEW 20/1 BREAKER IN PANEL 'RP-EMG' FOR 'CP-1' AND 'CP-2'.
8. PROVIDE NEW 50/3 BREAKER IN 'MCC-GN'.
9. CIRCUIT THROUGH CONTROL PANEL.

EX. MOTOR CONTROL CENTER MCC-PH DATA

NUMBER	NAMEPLATE	HP	VOLTS/PHASE	COMBINATION STARTER NEMA SIZE	COMBINATION STARTER FUSED SWITCH	REMARKS
M	MAIN LUGS	-	-	-	-	NOTE 1., 2.
1	EXH. FAN #3	3	480/3	1	30/3 F-8	NOTE 1., 2.
2	CWP-2	25	480/3	2	60/3 F-50	NOTE 1., 2.
3	HEAT RECOVERY PUMP	30	480/3	3	60/3 F-60	-
4	EQPT. ROOM EXH. FAN	1	480/3	1	30/3 F-3.2	NOTE 1., 2.
5	P.A. FAN RM 467	1	480/3	-	-	NOTE 1., 2.
6	P.A. FAN RM 567	1	480/3	-	-	NOTE 1., 2.
7	P.A. FAN RM 325	1	480/3	-	-	NOTE 1., 2.
8	P.A. FAN RM 269	1	480/3	-	-	NOTE 1., 2.

MOTOR CONTROL CENTER MCC-EMPH SCHEDULE

NUMBER	NAMEPLATE	HP	VOLTS/PHASE	COMBINATION STARTER NEMA SIZE	COMBINATION STARTER FUSED SWITCH	REMARKS	BEING REPLACED BY
M	MAIN LUGS	-	-	-	-	-	-
1	EVAP. COOLER PUMP	5	480/3	1	30/3 F-15	-	-
2	EVAP. COOLER	30	480/3	3	60/3 F-60	-	-
3	ELEV. GUTTER #2	105 HP 6 KW	480/3	-	60/3 F-60	NOTE 3	-
4	SPARE	-	-	-	-	NOTE 3	-
5	BASIN HEATER	5 KW	480/3	-	30/3 F-10	NOTE 3	-
6	EXH. FAN #1	200	480/3 TO 550V. DIS.	-	400/3 F-300	NOTE 3	EF-1
7	GUTTER PH. #1	8	480/3	-	60/3 F-40	NOTE 3	-
8	GUTTER PH. #2	8	480/3	-	60/3 F-40	NOTE 3	-
9	EXH. FAN #2	200	480/3 TO 550V. DIS.	-	400/3 F-300	NOTE 3	EF-2
10	TRANSF. & RP-EMPH	30 KVA	480/3	-	60/3 F-45	NOTE 3	-
11	ELEV. GUTTER #3	5 KW 25 HP	480/3	-	100/3 F-100	NOTE 3	-
12	SP-3 FAN	2	480/3	1	20/3 F-5	-	-
13	CWP-1	-	480/3	-	-	NOTE 6	-

MOTOR CONTROL CENTER MCC-GN SCHEDULE

NUMBER	NAMEPLATE	HP	VOLTS/PHASE	COMBINATION STARTER NEMA SIZE	COMBINATION STARTER FUSED SWITCH	REMARKS	BEING REPLACE BY
1	EXH. FAN G1	2	480/3	1	30/3 F-5	-	-
2	EXH. FAN G2	2	480/3	1	30/3 F-5	-	-
3	EXH. FAN G3	2	480/3	1	30/3 F-5	-	-
4	EXH. FAN G4	2	480/3	1	30/3 F-5	-	-
5	EXH. FAN G5	2	480/3	1	30/3 F-5	-	-
6	SPARE	1	480/3	-	-	NOTE 3	PWE-1
7	CHILL. WTR. PUMP #1	50	480/3	3	100/3 F-100	-	-
8	HV-1 UNIT	100	480/3	-	200/3 F-200	NOTE 3	-
9	CHILL. WTR. PUMP #2	50	480/3	3	100/3 F-100	-	-
10	EXHAUST FAN 150X	-	480/3	-	-	NOTE 6	-

MOTOR CONTROL CENTER MCC-EMG SCHEDULE

NUMBER	NAMEPLATE	HP	VOLTS/PHASE	COMBINATION STARTER NEMA SIZE	COMBINATION STARTER FUSED SWITCH	REMARKS	BEING REPLACE BY
1	CONTROL AIR COMP.	15	480/3	2	30/3 F-30	-	-
2	FUEL OIL PUMP	3/4	480/3	1	30/3 F-25	-	-
3	FUEL OIL PUMP	3/4	480/3	1	30/3 F-25	-	-
4	REHEAT PUMP	5	480/3	1	30/3 F-15	-	RHP-1
5	REHEAT PUMP	5	480/3	1	30/3 F-15	-	RHP-2
6	PREHEAT PUMP	15	480/3	2	30/3 F-30	-	PHP-1
7	PREHEAT PUMP	15	480/3	2	30/3 F-30	-	PHP-2
8	SP-1 FAN	2	480/3	1	30/3 F-5	-	-
9	BUSSING ONLY	-	-	-	-	-	-

EXISTING MOTOR CONTROL CENTER NOTES:

1. REPLACE ALL EXISTING COMPONENTS INCLUDING BUT NOT LIMITED TO OVERCURRENT PROTECTION, STARTERS, CONTROLS, INDICATOR LIGHTS, ETC. IN EXISTING CUBICLE. CONTRACTOR SHALL VERIFY AND CONFIRM ALL COMPONENTS REQUIRED PRIOR TO ORDERING AND ROUGH-IN.
2. SEE SPECIFICATIONS FOR ADDITIONAL INFORMATION.
3. OVER-CURRENT PROTECTION ONLY.
4. SEE EQUIPMENT SCHEDULE FOR EQUIPMENT REPLACED.
5. PROVIDE NEW LABELS FOR ALL NEW/REPLACED EQUIPMENT.
6. CONFIRM EXISTING COMPENENTS IN FIELD.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-26	Addendum #4

Project Number 10062179
Original Issue 11/10/17 -



Sheet Name

Equipment Schedules

Sheet Number

E-007

Project Status

CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-0911
E-MAIL: LIZ@HYDE-EGR.COM

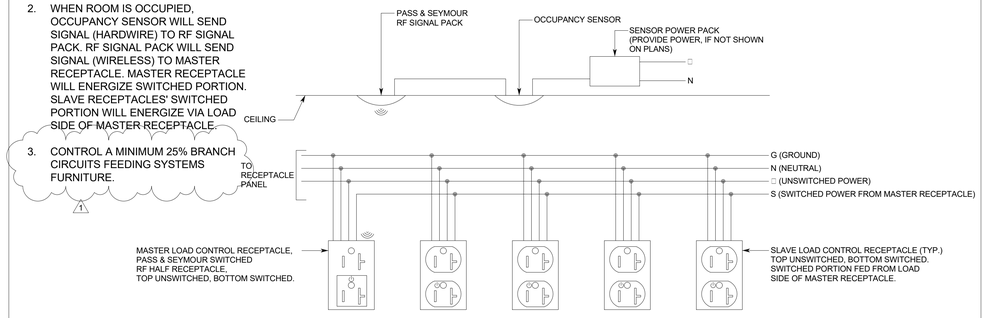
ENGINEER ELISABETH HYDE
PROJECT # 17061.0

4/26/2018 3:49:57 PM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt

DESIGN INTENT

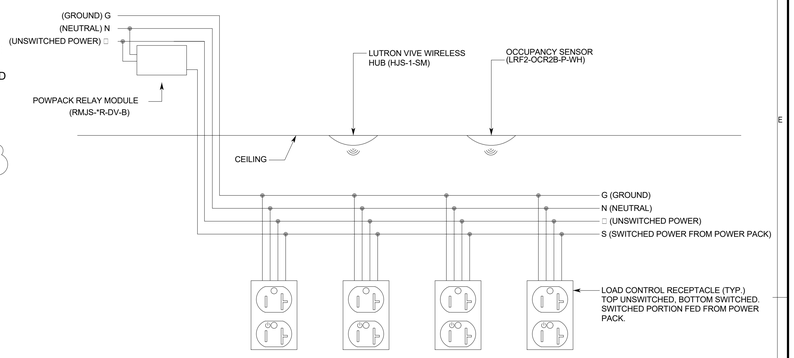
1. EACH DUPLEX RECEPTACLE WILL HAVE HALF UNDER PLUG LOAD CONTROL.
2. WHEN ROOM IS OCCUPIED, OCCUPANCY SENSOR WILL SEND SIGNAL (HARDWIRE) TO RF SIGNAL PACK. RF SIGNAL PACK WILL SEND SIGNAL (WIRELESS) TO MASTER RECEPTACLE. MASTER RECEPTACLE WILL ENERGIZE SWITCHED PORTION. SLAVE RECEPTACLES' SWITCHED PORTION WILL ENERGIZE VIA LOAD SIDE OF MASTER RECEPTACLE.
3. CONTROL A MINIMUM 25% BRANCH CIRCUITS FEEDING SYSTEMS FURNITURE.



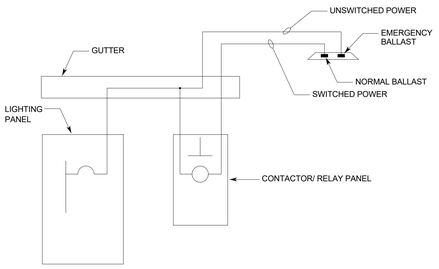
DETAIL
PLUG LOAD CONTROL (PASS & SEYMOUR)
NO SCALE

DESIGN INTENT

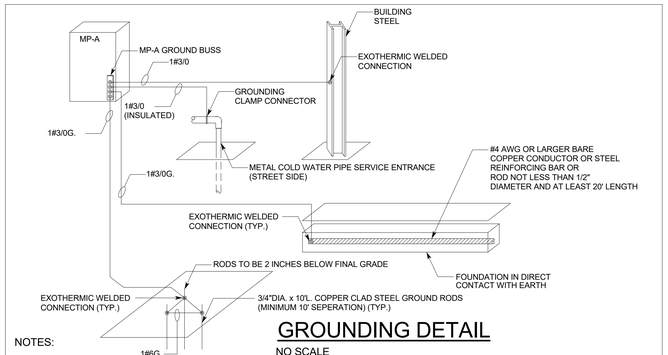
1. EACH DUPLEX RECEPTACLE WILL HAVE HALF UNDER PLUG LOAD CONTROL.
2. WHEN ROOM IS OCCUPIED, OCCUPANCY SENSOR WILL SEND SIGNAL (WIRELESS) TO VIVE WIRELESS HUB. VIVE WIRELESS HUB WILL SEND SIGNAL (WIRELESS) TO POWER PACK. RECEPTACLES WILL ENERGIZE SWITCHED PORTION.
3. OCCUPANT CAN MANUALLY TURN ON/OFF CIRCUIT VIA WALL MOUNTED SWITCH (LUTRON MRF2S-6ANS-XX)
4. CONTROL A MINIMUM 25% BRANCH CIRCUITS FEEDING SYSTEMS FURNITURE.



DETAIL
PLUG LOAD CONTROL (LUTRON)
NO SCALE

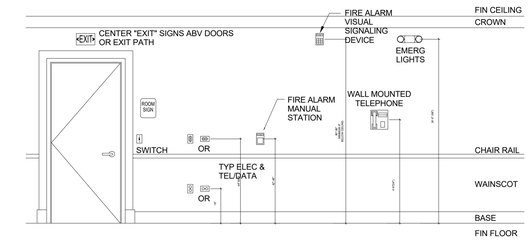


UNSWITCHED POWER WITH CONTACTOR-DETAIL
NO SCALE



NOTES:
1. ALL CONNECTIONS SHALL MEET NEC 250 REQUIREMENTS.

GROUNDING DETAIL
NO SCALE



COORDINATE ALL TRADES SUCH THAT ELECTRICAL DEVICES, SWITCHES, LIGHTS, ETC DO NOT CONFLICT WITH OR "SPLIT" CHAIR RAIL, WAINSCOT, BASE, CROWN, DOOR & WINDOW TRIM, ETC. AND ARE PROPERLY & NEATLY LOCATED FOR THEIR INTENDED FUNCTION IN FINISHED MATERIALS. ALL ITEMS SHALL BE LOCATED WITHIN ONE FINISH MATERIAL ONLY.

DEVICE HEIGHT TO CENTER LINE OF DEVICE OR CENTER LINE OF VISUAL ELEMENT OF SIGNALING DEVICE.

ALL DEVICES, FIXTURES & ACCESSORIES SHALL CONFORM TO THE CURRENT EDITIONS OF THE INTERNATIONAL CODE CONGRESS' (ICC) MODEL CODES, AMERICAN NATIONAL STANDARDS INSTITUTE'S (ANSI) A117.1, "ACCESSIBLE & USABLE BUILDING & FACILITIES", THE "AMERICANS' WITH DISABILITIES ACT" (ADA) & THE STANDARDS OF THE LOCAL AUTHORITIES HAVING JURISDICTION.

COMPLY WITH THE REQUIREMENTS FOR GANGED &/OR BACK TO BACK J-BOXES IN FIRE RATED OR SMOKE PROOF PARTITIONS AS REQ'D TO MAINTAIN THE INTEGRITY OF THE ASSEMBLY.

SEE ALSO INTERIOR ELEVATIONS FOR COORDINATION W/ MILLWORK, TRIM, EQUIPMENT, ETC.

DEVICE MOUNTING HEIGHTS DETAIL
NO SCALE

SHEET NOTES:

1. PLUG LOAD CONTROLS SHAL COMPLY WITH ASHRAE 90.1 2013. ROOMS THAT SHALL COMPLY INCLUDE PRIVATE OFFICES, CONFERENCE ROOMS, COPY ROOMS, BREAK ROOMS, AND OFFICE WORKSTATIONS. DO NOT CONTROL RECEPTACLES IN LABORATORY OR LAB SUPPORT SPACES.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	Addendum #2

Project Number 10062179
Original Issue 2017-11-22 -

ALABAMA ELISABETH HYDE NO. 17960 PROFESSIONAL ENGINEER ELISABETH HYDE 3-28-18

Sheet Name
Electrical Details

Sheet Number
E-008

Project Status
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER ELISABETH HYDE | PROJECT # 17061.0

4/12/2018 9:52:43 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt

UAB 1-PORT DATA STATION CABLE SPECIFICATIONS (CAT6A)

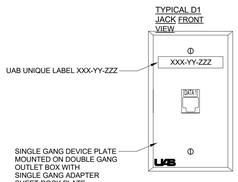
MODULAR JACKS FOR D1 OUTLETS

D1 ▶ INDICATES:
WALL OUTLET FOR D1 STATION.
(1) 8 PIN STAINLESS STEEL ASSEMBLY (CAT6A/568B)
EQUAL TO: SIEMON COMPANY KIT #MX-FP-S-06-011

D1 ◗ INDICATES:
FLOOR OUTLET FOR D1 DESK STATION

NOTE:
D1 JACK KITS SHALL BE PROVIDED AND INSTALLED
BY UAB COMMUNICATIONS CONTRACTOR.

TYPICAL D1 JACK FRONT VIEW



CABLE FOR D1 OUTLETS

1. THE FOLLOWING CABLES SHALL BE USED FOR ALL D1 STATIONS:

NON-PLENUM AREAS:
DATA(1): GENERAL 4 PAIR CAT6A PT. #7133853
CABLE COLOR GREEN

PLENUM AREAS:
DATA(1): GENERAL 4 PAIR CAT6A PT. #7132853
CABLE COLOR GREEN

2. THE CONTRACTOR SHALL IDENTIFY AND STENCIL ALL STATION CABLES AS FOLLOWS:
ALL STATION CABLES SHALL BE DESIGNATED WITH THE TYPE AND UNIQUE JACK NUMBER (SEE BELOW) NEATLY WITH A PERMANENT MARKER OR WITH A 3M SCOTCHCODE IDENTIFICATION SYSTEM INDICATING LETTERS AND NUMBERS.
ZZZ = UNIQUE JACK #

A. D1 STATIONS
(1) 4 PAIR DATA(1): 001-D1

B. PAY STATIONS:
(1) 4 PAIR DATA: 002-DPS

C. ELEVATOR PHONE:
(1) 4 PAIR DATA: 004-DES

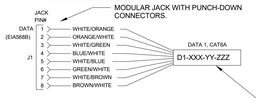
D. HELP PHONE:
(1) 4 PAIR DATA: 005-DHS

3. PROVIDE ONE (1) 4 PAIR DATA FROM EACH OUTLET TO THE DESIGNATED COMMUNICATION BACKBOARD. CABLE SHALL BE 23 A.W.G. AND BE COLOR CODED AS FOLLOWS:

4 PAIR - WHITE/BLUE, WHITE/ORANGE, WHITE/GREEN, WHITE/BROWN

4. UAB HAS OBTAINED SPECIAL VOLUME PRICING ON CABLING MATERIALS. CONTACT UAB TELECOMMUNICATIONS AND IDENTIFY THE UAB PROJECT NUMBER FOR SOURCE OF PRICING ON CABLE.
EMAIL: (ITEngineering@uab.edu) PREFERRED
PHONE: ED TURPIN (205) 934-5538
PHONE: CHRIS WADDELL (205) 975-5379

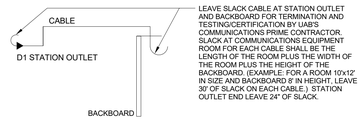
TYPICAL D1 STATION CABLING



D1 JACKS SHALL BE USED FOR WALL MOUNTED TELEPHONE STATIONS, TIME CLOCKS, & CAMERAS ONLY UNLESS OTHERWISE APPROVED BY TELECOMMUNICATIONS MANAGER.

MARK CABLE NEATLY AT BACKBOARD END WITH PERMANENT MARKER FOR STATION IDENTIFICATION.
D=DATA STATION CABLE,
XXX = BLDG. NUMBER, YY = FLOOR NUMBER, AND
ZZZ = UNIQUE JACK NUMBER
NOTE: EACH STATION WILL HAVE A UNIQUE NUMBER, 001, 002, 003 ETC.

TYPICAL OUTLET CABLING
SEE PLANS FOR CONDUIT LAYOUT



NOTES:
1. CONDUIT SIZING SHALL BE AS FOLLOWS: 1 OUTLET-1"C., 2 OUTLETS-1 1/4"C., 3 OUTLETS-2"C., 3 OUTLETS IS THE MAXIMUM FOR ANY HOMERUN UNLESS OTHERWISE APPROVED BY UAB TELECOM.
2. CONTRACTOR SHALL TEST ALL CABLES TO ENSURE END-TO-END CONTINUITY OF ALL CONDUCTORS IN EACH CABLE. THE JACKS SHALL BE FURNISHED, INSTALLED AND TERMINATED BY UAB TELECOMMUNICATIONS AFTER TERMINATION, UAB TELECOMMUNICATIONS SHALL TEST FOR CONDUCTOR OPENS, TIP AND RING REVERSAL AND SHORTS, GROUNDS AND CABLE TRANSPOSITION CONTRACTOR, AT NO ADDITIONAL COST, SHALL REPLACE ANY CABLES THAT FAIL TO MEET PUBLISHED PERFORMANCE CRITERIA.
3. THE CONTRACTOR SHALL CONTACT UAB TELECOMMUNICATIONS SERVICES OUTSIDE PLANT/ENGINEERING OPERATIONS DEPARTMENT, TEL NO. (205) 934-0536 OR 205-934-5538 FOR ASSISTANCE IN VERIFYING EXISTING CABLE FACILITIES IN THE PROJECT AREA AND IN THE NEW SYSTEM INSTALLATION PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL ALSO CONTACT UAB TELECOMMUNICATIONS 45 DAYS PRIOR TO TOTAL COMPLETION OF THE PROJECT TO INDICATE THEIR COMPLETION DATE FOR ALL STATION DROPS.
4. THE CONTRACTOR SHALL INFORM THE USERS TO CONTACT THE UAB TELECOMMUNICATIONS APPLICATIONS DEPARTMENT, TEL NO. (205) 934-0503 14 DAYS PRIOR TO PROJECT COMPLETION TO COORDINATE THE ACTIVATION OF THEIR TELEPHONE AND DATA CONNECTIONS. THERE WILL BE ADDITIONAL COSTS ASSOCIATED WITH THE ACTIVATION THAT IS NOT INCLUDED IN THE CONSTRUCTION COST THAT WILL BE THE RESPONSIBILITY OF THE USER.

10-27-2015

UAB 4-PORT DATA OUTLET STATION CABLE SPECIFICATIONS (CAT6A)

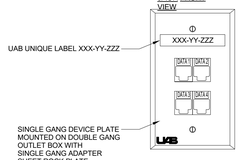
MODULAR JACKS FOR D4 OUTLETS

D4 ▶ INDICATES:
WALL OUTLET FOR D4 STATION.
(4) 8 PIN STAINLESS STEEL ASSEMBLY (CAT6A/568B)
EQUAL TO: SIEMON COMPANY KIT #MX-FP-S-06-012

D4 ◗ INDICATES:
FLOOR OUTLET FOR D4 DESK STATION

NOTE:
D4 JACK KITS SHALL BE PROVIDED AND INSTALLED
BY UAB COMMUNICATIONS CONTRACTOR.

TYPICAL D4 JACK FRONT VIEW



CABLE FOR D4 OUTLETS

1. THE FOLLOWING CABLES SHALL BE USED FOR ALL D4 STATIONS:

NON-PLENUM AREAS:
DATA(1): GENERAL 4 PAIR CAT6A PT. #7133853
DATA(2): GENERAL 4 PAIR CAT6A PT. #7133853
DATA(3): GENERAL 4 PAIR CAT6A PT. #7133853
DATA(4): GENERAL 4 PAIR CAT6A PT. #7133853
CABLE COLOR GREEN

PLENUM AREAS:
DATA(1): GENERAL 4 PAIR CAT6A PT. #7132853
DATA(2): GENERAL 4 PAIR CAT6A PT. #7132853
DATA(3): GENERAL 4 PAIR CAT6A PT. #7132853
DATA(4): GENERAL 4 PAIR CAT6A PT. #7132853
CABLE COLOR GREEN

2. THE CONTRACTOR SHALL IDENTIFY AND STENCIL ALL STATION CABLES AS FOLLOWS:
ALL STATION CABLES SHALL BE DESIGNATED WITH THE TYPE AND UNIQUE JACK NUMBER (SEE BELOW) NEATLY WITH A PERMANENT MARKER OR WITH A 3M SCOTCHCODE IDENTIFICATION SYSTEM INDICATING LETTERS AND NUMBERS.
ZZZ = UNIQUE JACK #

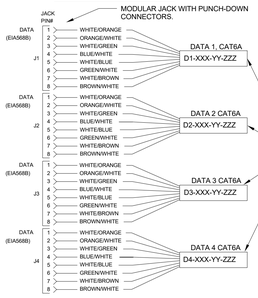
A. D4 STATIONS
(1) 4 PAIR DATA(1): 001-D1
(1) 4 PAIR DATA(2): 001-D2
(1) 4 PAIR DATA(3): 001-D3
(1) 4 PAIR DATA(4): 001-D4

3. PROVIDE FOUR (4) 4 PAIR DATA FROM EACH OUTLET TO THE DESIGNATED COMMUNICATION BACKBOARD. CABLE SHALL BE 23 A.W.G. AND BE COLOR CODED AS FOLLOWS:

4 PAIR - WHITE/BLUE, WHITE/ORANGE, WHITE/GREEN, WHITE/BROWN

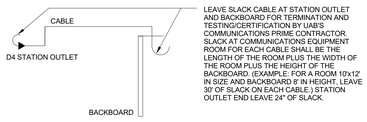
4. UAB HAS OBTAINED SPECIAL VOLUME PRICING ON CABLING MATERIALS. CONTACT UAB TELECOMMUNICATIONS AND IDENTIFY THE UAB PROJECT NUMBER FOR SOURCE OF PRICING ON CABLE.
EMAIL: (ITEngineering@uab.edu) PREFERRED
PHONE: ED TURPIN (205) 934-5538
PHONE: CHRIS WADDELL (205) 975-5379

TYPICAL D4 STATION CABLING



MARK CABLE NEATLY AT BACKBOARD END WITH PERMANENT MARKER FOR STATION IDENTIFICATION,
D = DATA STATION CABLE,
XXX = BLDG. NUMBER, YY = FLOOR NUMBER, AND
ZZZ = UNIQUE JACK NUMBER
NOTE: EACH STATION WILL HAVE A UNIQUE NUMBER, 001, 002, 003 ETC.

TYPICAL OUTLET CABLING
SEE PLANS FOR CONDUIT LAYOUT



NOTES:
1. CONDUIT SIZING SHALL BE AS FOLLOWS: 1 OUTLET-1"C., 2 OUTLETS-1 1/4"C., 3 OUTLETS-2"C., 3 OUTLETS IS THE MAXIMUM FOR ANY HOMERUN UNLESS OTHERWISE APPROVED BY UAB TELECOM.
2. CONTRACTOR SHALL TEST ALL CABLES TO ENSURE END-TO-END CONTINUITY OF ALL CONDUCTORS IN EACH CABLE. THE JACKS SHALL BE FURNISHED, INSTALLED AND TERMINATED BY UAB TELECOMMUNICATIONS AFTER TERMINATION, UAB TELECOMMUNICATIONS SHALL TEST FOR CONDUCTOR OPENS, TIP AND RING REVERSAL AND SHORTS, GROUNDS AND CABLE TRANSPOSITION CONTRACTOR, AT NO ADDITIONAL COST, SHALL REPLACE ANY CABLES THAT FAIL TO MEET PUBLISHED PERFORMANCE CRITERIA.
3. THE CONTRACTOR SHALL CONTACT UAB TELECOMMUNICATIONS SERVICES OUTSIDE PLANT/ENGINEERING OPERATIONS DEPARTMENT, TEL NO. (205) 934-0536 OR 205-934-5538 FOR ASSISTANCE IN VERIFYING EXISTING CABLE FACILITIES IN THE PROJECT AREA AND IN THE NEW SYSTEM INSTALLATION PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL ALSO CONTACT UAB TELECOMMUNICATIONS 45 DAYS PRIOR TO TOTAL COMPLETION OF THE PROJECT TO INDICATE THEIR COMPLETION DATE FOR ALL STATION DROPS.
4. THE CONTRACTOR SHALL INFORM THE USERS TO CONTACT THE UAB TELECOMMUNICATIONS APPLICATIONS DEPARTMENT, TEL NO. (205) 934-0503 14 DAYS PRIOR TO PROJECT COMPLETION TO COORDINATE THE ACTIVATION OF THEIR TELEPHONE AND DATA CONNECTIONS. THERE WILL BE ADDITIONAL COSTS ASSOCIATED WITH THE ACTIVATION THAT IS NOT INCLUDED IN THE CONSTRUCTION COST THAT WILL BE THE RESPONSIBILITY OF THE USER.

10-27-2015

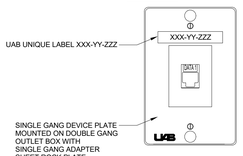
UAB WALL TELEPHONE STATION CABLE SPECIFICATIONS (CAT6A)

MODULAR JACKS FOR VOICE/WALL OUTLET

W/D1 ▶ INDICATES:
WALL OUTLET FOR WALL MOUNTED TELEPHONE STATION.
8 PIN STAINLESS STEEL ASSEMBLY WITH LUGS FOR TELEPHONE INSTRUMENT MOUNTING
EQUAL TO: SIEMON COMPANY #MX-WP-K6-SS
PLUS #Z6A-K07 MODULE

NOTE:
W/D1 JACK KITS SHALL BE PROVIDED AND
INSTALLED BY UAB COMMUNICATIONS CONTRACTOR.

TYPICAL W/D1 JACK FRONT VIEW



CABLE FOR W/D1 OUTLETS

1. THE FOLLOWING CABLES SHALL BE USED FOR ALL VOICE/WALL STATIONS:

NON-PLENUM AREAS:
DATA(1): GENERAL 4 PAIR CAT6A PT. #7133853
CABLE COLOR GREEN

PLENUM AREAS:
DATA(1): GENERAL 4 PAIR CAT6A PT. #7132853
CABLE COLOR GREEN

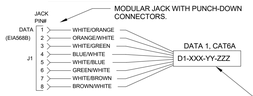
2. THE CONTRACTOR SHALL IDENTIFY AND STENCIL ALL STATION CABLES AS FOLLOWS:
ALL STATION CABLES SHALL BE DESIGNATED WITH THE TYPE AND UNIQUE JACK NUMBER (SEE BELOW) NEATLY WITH A PERMANENT MARKER OR WITH A 3M SCOTCHCODE IDENTIFICATION SYSTEM INDICATING LETTERS AND NUMBERS.
ZZZ = UNIQUE JACK #

A. VOICE/WALL STATIONS:
(1) 4 PAIR DATA: 001-DW

3. PROVIDE ONE (1) 4 PAIR DATA FROM EACH OUTLET TO THE DESIGNATED COMMUNICATION BACKBOARD. CABLE SHALL BE 23 A.W.G. AND BE COLOR CODED AS FOLLOWS:
4 PAIR - WHITE/BLUE, WHITE/ORANGE, WHITE/GREEN, WHITE/BROWN

4. UAB HAS OBTAINED SPECIAL VOLUME PRICING ON CABLING MATERIALS. CONTACT UAB TELECOMMUNICATIONS AND IDENTIFY THE UAB PROJECT NUMBER FOR SOURCE OF PRICING ON CABLE.
EMAIL: (ITEngineering@uab.edu) PREFERRED
PHONE: ED TURPIN (205) 934-5538
PHONE: CHRIS WADDELL (205) 975-5379

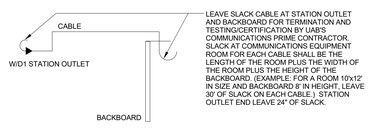
TYPICAL W/D1 STATION CABLING



D1 JACKS SHALL BE USED FOR WALL MOUNTED TELEPHONE STATIONS, TIME CLOCKS, & CAMERAS ONLY UNLESS OTHERWISE APPROVED BY TELECOMMUNICATIONS MANAGER.

MARK CABLE NEATLY AT BACKBOARD END WITH PERMANENT MARKER FOR STATION IDENTIFICATION,
D = DATA STATION CABLE,
XXX = BLDG. NUMBER, YY = FLOOR NUMBER, AND
ZZZ = UNIQUE JACK NUMBER
NOTE: EACH STATION WILL HAVE A UNIQUE NUMBER, 001, 002, 003 ETC.

TYPICAL OUTLET CABLING
SEE PLANS FOR CONDUIT LAYOUT



NOTES:
1. CONDUIT SIZING SHALL BE AS FOLLOWS: 1 OUTLET-1"C., 2 OUTLETS-1 1/4"C., 3 OUTLETS-2"C., 3 OUTLETS IS THE MAXIMUM FOR ANY HOMERUN UNLESS OTHERWISE APPROVED BY UAB TELECOM.
2. CONTRACTOR SHALL TEST ALL CABLES TO ENSURE END-TO-END CONTINUITY OF ALL CONDUCTORS IN EACH CABLE. THE JACKS SHALL BE FURNISHED, INSTALLED AND TERMINATED BY UAB TELECOMMUNICATIONS AFTER TERMINATION, UAB TELECOMMUNICATIONS SHALL TEST FOR CONDUCTOR OPENS, TIP AND RING REVERSAL AND SHORTS, GROUNDS AND CABLE TRANSPOSITION CONTRACTOR, AT NO ADDITIONAL COST, SHALL REPLACE ANY CABLES THAT FAIL TO MEET PUBLISHED PERFORMANCE CRITERIA.
3. THE CONTRACTOR SHALL CONTACT UAB TELECOMMUNICATIONS SERVICES OUTSIDE PLANT/ENGINEERING OPERATIONS DEPARTMENT, TEL NO. (205) 934-0536 OR 205-934-5538 FOR ASSISTANCE IN VERIFYING EXISTING CABLE FACILITIES IN THE PROJECT AREA AND IN THE NEW SYSTEM INSTALLATION PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL ALSO CONTACT UAB TELECOMMUNICATIONS 45 DAYS PRIOR TO TOTAL COMPLETION OF THE PROJECT TO INDICATE THEIR COMPLETION DATE FOR ALL STATION DROPS.
4. THE CONTRACTOR SHALL INFORM THE USERS TO CONTACT THE UAB TELECOMMUNICATIONS APPLICATIONS DEPARTMENT, TEL NO. (205) 934-0503 14 DAYS PRIOR TO PROJECT COMPLETION TO COORDINATE THE ACTIVATION OF THEIR TELEPHONE AND DATA CONNECTIONS. THERE WILL BE ADDITIONAL COSTS ASSOCIATED WITH THE ACTIVATION THAT IS NOT INCLUDED IN THE CONSTRUCTION COST THAT WILL BE THE RESPONSIBILITY OF THE USER.

10-27-2015

UAB 2-PORT DATA STATION & 2-PORT WIRELESS ACCESS POINT CABLE SPECIFICATIONS (CAT6A)

MODULAR JACKS FOR D2 OUTLET & WIRELESS ACCESS POINT

WAP/D2 ▶ INDICATES:
WALL OUTLET FOR WIRELESS ACCESS POINT/D2 STATION.
(2) 8 PIN STAINLESS STEEL ASSEMBLY (CAT6A/568B) EQUAL TO:
SIEMON COMPANY KIT #MX-FP-S-06-010

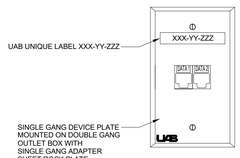
MODULAR JACKS FOR D2 OUTLETS

D2 ▶ INDICATES:
WALL OUTLET FOR D2 STATION.
(2) 8 PIN STAINLESS STEEL ASSEMBLY (CAT6A/568B)
EQUAL TO: SIEMON COMPANY KIT #MX-FP-S-06-010

D2 ◗ INDICATES:
FLOOR OUTLET FOR D2 DESK STATION

NOTE:
D2 AND WIRELESS ACCESS POINT JACKS KITS
SHALL BE PROVIDED AND INSTALLED
BY UAB COMMUNICATIONS CONTRACTOR.

TYPICAL D2 & WAP/D2 JACK FRONT VIEW



CABLE FOR D2 OUTLET & D2 WIRELESS ACCESS POINT

1. THE FOLLOWING CABLES SHALL BE USED FOR ALL WIRELESS ACCESS POINT/D2 AND FOR ALL D2 STATIONS:

NON-PLENUM AREAS:
DATA(1): GENERAL 4 PAIR CAT6A PT. #7133853
DATA(2): GENERAL 4 PAIR CAT6A PT. #7133853
CABLE COLOR GREEN

PLENUM AREAS:
DATA(1): GENERAL 4 PAIR CAT6A PT. #7132853
DATA(2): GENERAL 4 PAIR CAT6A PT. #7132853
CABLE COLOR GREEN

2. THE CONTRACTOR SHALL IDENTIFY AND STENCIL ALL STATION CABLES AS FOLLOWS:
ALL STATION CABLES SHALL BE DESIGNATED WITH THE TYPE AND UNIQUE JACK NUMBER (SEE BELOW) NEATLY WITH A PERMANENT MARKER OR WITH A 3M SCOTCHCODE IDENTIFICATION SYSTEM INDICATING LETTERS AND NUMBERS.
ZZZ = UNIQUE JACK #

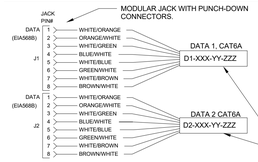
A. WIRELESS/D2 & D2 STATIONS
(1) 4 PAIR DATA(1): 001-D1
(1) 4 PAIR DATA(2): 001-D2

3. PROVIDE TWO (2) 4 PAIR DATA FROM EACH OUTLET TO THE DESIGNATED COMMUNICATION BACKBOARD. CABLE SHALL BE 23 A.W.G. AND BE COLOR CODED AS FOLLOWS:
4 PAIR - WHITE/BLUE, WHITE/ORANGE, WHITE/GREEN, WHITE/BROWN

4. UAB HAS OBTAINED SPECIAL VOLUME PRICING ON CABLING MATERIALS. CONTACT UAB TELECOMMUNICATIONS AND IDENTIFY THE UAB PROJECT NUMBER FOR SOURCE OF PRICING ON CABLE.
EMAIL: (ITEngineering@uab.edu) PREFERRED
PHONE: ED TURPIN (205) 934-5538
PHONE: CHRIS WADDELL (205) 975-5379

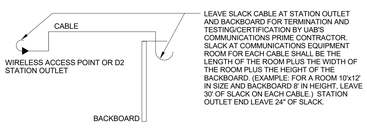
NOTE:
MOUNT WAP/D2 ABOVE CEILING IN HOSPITAL BUILDINGS AND FLUSH MOUNT IN CEILING FOR OTHER LOCATIONS UNLESS NOTED OTHERWISE.

TYPICAL D2 STATION & D2 WIRELESS ACCESS POINT CABLING



MARK CABLE NEATLY AT BACKBOARD END WITH PERMANENT MARKER FOR STATION IDENTIFICATION,
W = WIRELESS ACCESS POINT D=DATA STATION CABLE,
XXX = BLDG. NUMBER, YY = FLOOR NUMBER, AND
ZZZ = UNIQUE JACK NUMBER
NOTE: EACH STATION WILL HAVE A UNIQUE NUMBER, 001, 002, 003 ETC.

TYPICAL OUTLET CABLING
SEE PLANS FOR CONDUIT LAYOUT



NOTES:
1. CONDUIT SIZING SHALL BE AS FOLLOWS: 1 OUTLET-1"C., 2 OUTLETS-1 1/4"C., 3 OUTLETS-2"C., 3 OUTLETS IS THE MAXIMUM FOR ANY HOMERUN UNLESS OTHERWISE APPROVED BY UAB TELECOM.
2. CONTRACTOR SHALL TEST ALL CABLES TO ENSURE END-TO-END CONTINUITY OF ALL CONDUCTORS IN EACH CABLE. THE JACKS SHALL BE FURNISHED, INSTALLED AND TERMINATED BY UAB TELECOMMUNICATIONS AFTER TERMINATION, UAB TELECOMMUNICATIONS SHALL TEST FOR CONDUCTOR OPENS, TIP AND RING REVERSAL AND SHORTS, GROUNDS AND CABLE TRANSPOSITION CONTRACTOR, AT NO ADDITIONAL COST, SHALL REPLACE ANY CABLES THAT FAIL TO MEET PUBLISHED PERFORMANCE CRITERIA.
3. THE CONTRACTOR SHALL CONTACT UAB TELECOMMUNICATIONS SERVICES OUTSIDE PLANT/ENGINEERING OPERATIONS DEPARTMENT, TEL NO. (205) 934-0536 OR 205-934-5538 FOR ASSISTANCE IN VERIFYING EXISTING CABLE FACILITIES IN THE PROJECT AREA AND IN THE NEW SYSTEM INSTALLATION PRIOR TO STARTING CONSTRUCTION. CONTRACTOR SHALL ALSO CONTACT UAB TELECOMMUNICATIONS 45 DAYS PRIOR TO TOTAL COMPLETION OF THE PROJECT TO INDICATE THEIR COMPLETION DATE FOR ALL STATION DROPS.
4. THE CONTRACTOR SHALL INFORM THE USERS TO CONTACT THE UAB TELECOMMUNICATIONS APPLICATIONS DEPARTMENT, TEL NO. (205) 934-0503 14 DAYS PRIOR TO PROJECT COMPLETION TO COORDINATE THE ACTIVATION OF THEIR TELEPHONE AND DATA CONNECTIONS. THERE WILL BE ADDITIONAL COSTS ASSOCIATED WITH THE ACTIVATION THAT IS NOT INCLUDED IN THE CONSTRUCTION COST THAT WILL BE THE RESPONSIBILITY OF THE USER.

10-27-2015

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number	10062179
Original Issue	2017-11-22 -

ELISABETH HYDE NO. 17960 PROFESSIONAL ENGINEER ALABAMA 3-28-18

Sheet Name

OIT Details

Sheet Number

E-009

Project Status

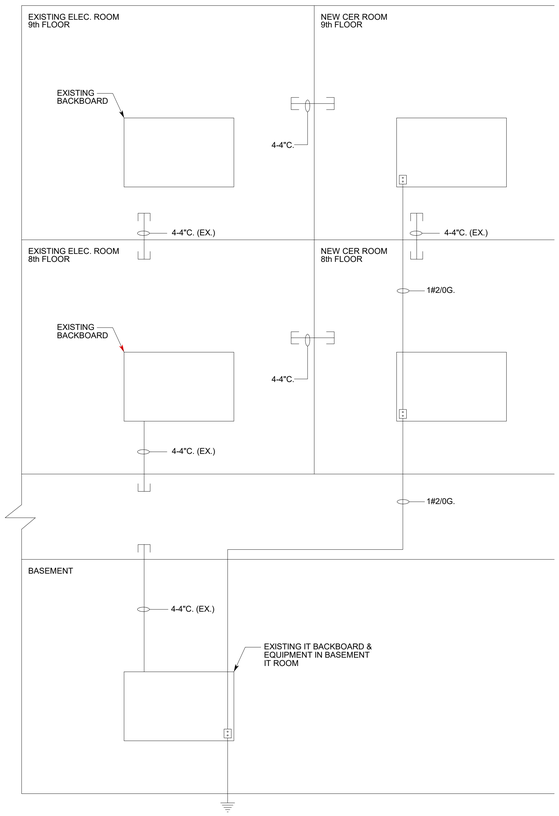
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0600
(F) 205 982-0911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER: ELISABETH HYDE
PROJECT #: 17061.0

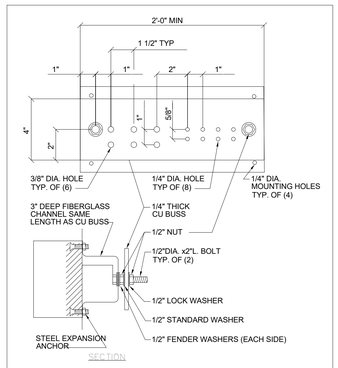
9/28/2018 10:46:56 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt



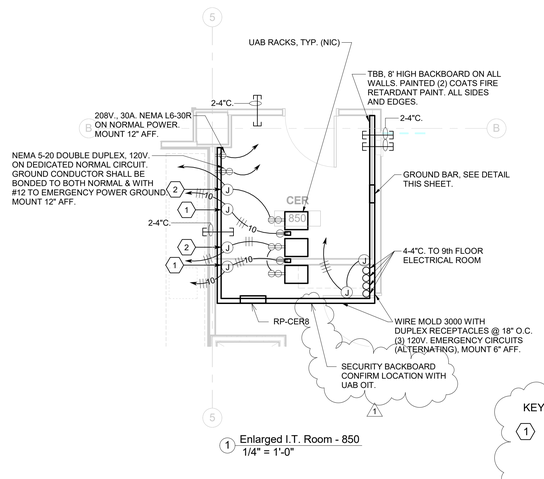
RISER DIAGRAM
IT SYSTEM
NO SCALE

Riser - IT
1/8" = 1'-0"



GENERAL NOTES
1. ALL HARDWARE SHOWN SHALL BE STAINLESS STEEL.
2. PROVIDE 1 MOUNTING POINT PER 12" OF BAR LENGTH.
3. HOLES MAY BE ADDED IF REQUIRED.

GROUND BAR DETAIL
NO SCALE

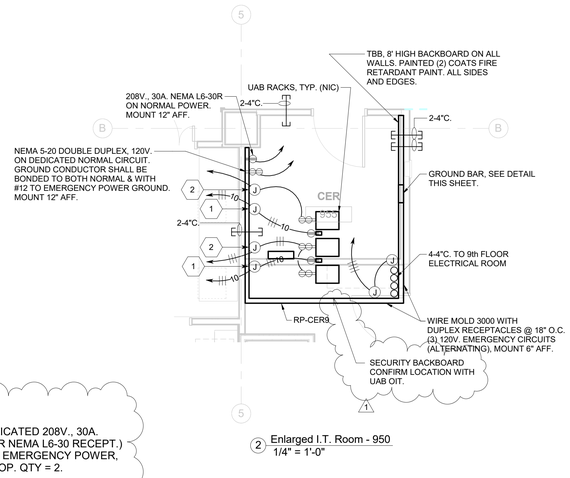


1 Enlarged I.T. Room - 850
1/4" = 1'-0"

NOTE: EMERGENCY CIRCUITS TO RP-CER8. NORMAL CIRCUITS TO RP-8A.

KEYED NOTES:

1. 1 EACH, DEDICATED 208V., 30A. CIRCUIT (FOR NEMA L6-30 RECEPT.) 8'-6" AFF. ON EMERGENCY POWER, FED FROM TOP. QTY = 2.
2. 2 EACH, DEDICATED 120V., 20A. CIRCUITS, 8'-6" AFF ON EMERGENCY POWER. FED FROM TOP. QTY = 4



2 Enlarged I.T. Room - 950
1/4" = 1'-0"

NOTE: EMERGENCY CIRCUITS TO RP-CER9. NORMAL CIRCUITS TO RP-9A.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	Addendum #2

Project Number 10062179
Original Issue 2017-11-22 -

ALABAMA LICENSED PROFESSIONAL ENGINEER ELISABETH HYDE NO. 17960
3-28-18

Sheet Name
OIT Details

Sheet Number
E-010

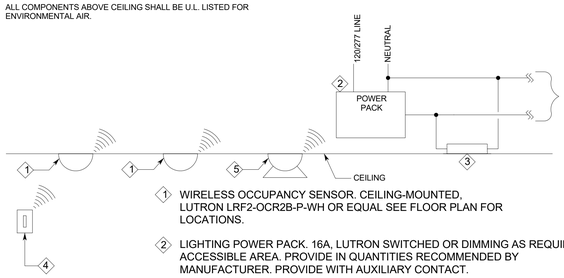
Project Status
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM
ENGINEER
ELISABETH HYDE
PROJECT #
17061.0

4/12/2018 9:52:49 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt

ALL COMPONENTS ABOVE CEILING SHALL BE U.L. LISTED FOR ENVIRONMENTAL AIR.



1. WIRELESS OCCUPANCY SENSOR. CEILING-MOUNTED, LUTRON LRF2-OCR2B-P-WH OR EQUAL SEE FLOOR PLAN FOR LOCATIONS.
2. LIGHTING POWER PACK. 16A, LUTRON SWITCHED OR DIMMING AS REQUIRED. LOCATE ACCESSIBLE AREA. PROVIDE IN QUANTITIES RECOMMENDED BY MANUFACTURER. PROVIDE WITH AUXILIARY CONTACT.
3. LIGHT FIXTURES.
4. WIRELESS SWITCH. SWITCHED OR DIMMING AS REQUIRED. QUANTITIES AS SHOWN. LUTRON.
5. WIRELESS DAYLIGHT SENSOR. CEILING-MOUNTED, LUTRON #LRF2-DCRB. SEE FLOOR PLAN FOR LOCATIONS.

WIRELESS OCCUPANCY SENSOR AND LIGHTING CONTROL DETAIL

NO SCALE

LIGHT FIXTURE SCHEDULE

MARK	DESCRIPTION	LAMPS	MANUFACTURER
FF4 (EF4)	LED, LINEAR STRIP FIXTURE, 4' LENGTH, (PROVIDE WITH EMERGENCY TRANSFER DEVICE), 277V.	6000Lm / 56W	LITHONIA #ZLIF-L48-SMR-6000-MDD-277-35-80CRI-(E7W)-WH OR EQUAL BY COLOMBIA
LGA	LINEAR, RECESSED, LED FIXTURE, (PROVIDE WITH EMERGENCY TRANSFER DEVICE), 277V.	1000Lm/ft / 9.7W/ft	AXIS #BMRLED-1000-80-35-FL-X-XX-UNV-D-(EM) OR EQUAL BY LITE CONTROL & ARCHITECTURAL LIGHTING WORK
LGB (EGB)	SAME AS 'LGA/EGA' EXECPT 750 LM/FT	750Lm/ft / 7.1W/ft	AXIS #BMRLED-750-80-35-FL-X-XX-UNV-D-(EM) OR EQUAL BY LITE CONTROL & ARCHITECTURAL LIGHTING WORK
LGC	SAME AS 'LGA/EGA' EXECPT 400 LM/FT	400Lm/ft / 3.7W/ft	AXIS #BMRLED-400-80-35-FL-X-XX-UNV-D-(EM) OR EQUAL BY LITE CONTROL & ARCHITECTURAL LIGHTING WORK
LGD (EGD)	2'x4' RECESSED, LINEAR LED DIRECT/INDIRECT FIXTURE, PROVIDE WITH EMERGENCY TRANSFER DEVICE, 277V.	6160Lm / 58.5W	EATON #BRG-WS-4-L35-LD2-UNV-24-HCD-(EL14W) OR EQUAL BY VISION ENGINEERING & MARK ARCHITECTURAL LIGHTING
LGE (EGE)	SAME AS 'LGD/EGD' EXECPT WITH LIGHT LEVEL 5	7164Lm / 70W	EATON #BRG-WS-5-L35-LD2-UNV-24-HCD-(EL14W) OR EQUAL BY VISION ENGINEERING & MARK ARCHITECTURAL LIGHTING
LGF (EGF)	1x4 RECESSED LINEAR LED, DIRECT/INDIRECT FIXTURE, (PROVIDE WITH EMERGENCY TRANSFER DEVICE), 277V.	4150Lm / 39W	EATON #BRG-WS-3-L35-LD2-UNV-14-HCD-(EL14W) OR EQUAL BY VISION ENGINEERING & MARK ARCHITECTURAL LIGHTING
LGH (EGH)	1x4 RECESSED LINEAR LED, NON-FERROUS WITH REMOTE DRIVER, 277V., (PROVIDE WITH EMERGENCY TRANSFER DEVICE)	3700Lm / 40W	NEW STAR #AG-G-14-MRI-OP-UN-35- POWER SUPPLY: AG-14-PS-1/1-P-(EL1)-DM1 OR EQUAL BY C3 LIGHTING & DAY-O-LITE
LRA	RECESSED LED CAN LIGHT, 6" DIA., 120V. (PROVIDE EMERGENCY TRANSFER DEVICE), 3500K	3000Lm / 27.6W	COOPER #LD6B-30-D010-(EM7)-EU6B-3050-80-35-XX OR EQUAL BY PRESCOLITE & GOTHAM LIGHTING
LSA (ESA)	LINEAR, LED SUSPENDED FIXTURE, 4' LENGTH, (PROVIDE WITH EMERGENCY TRANSFER DEVICE), 277V.	696Lm/ft / -	VODE #107-BX-01-48-CC-48-XX-AE-2-(EM)-Z-SO-35-1-XX OR EQUAL BY SPI
LSB (ESB)	LINEAR, LED SUSPENDED FIXTURE, 4' LENGTH, 40% UP/60% DOWN, (PROVIDE WITH EMERGENCY TRANSFER DEVICE), 277V.	3700Lm / 35.5W	EATON #I2-WS-2-L35-1-D-UNV-AC-4-HCD-DM5-XX OR EQUAL BY LITE CONTROL & PEERLESS
PA	LED ARCHITECTURAL SUSPENDED FIXTURE, 277V.	4000Lm / 45W	MOJO ILLUMINATION #SO40-37-4000-35K-010-M-A4-XX-CC (GREEN - CONFIRM EXACT WITH ARCHITECT)
PB (EPB)	LED ARCHITECTURAL PENDANT, (PROVIDE WITH EMERGENCY TRANSFER DEVICE), 277V.	1250Lm / 16W	FLOS #AIM
VTI (VTIE)	LED VAPOR TIGHT FIXTURE, (PROVIDE WITH EMERGENCY TRANSFER DEVICE)	3500 Lm	PHILIPS #D-W-L-35L-835-UNV-(EMLED) OR EQUAL BY COLOMBIA & LITHONIA
WSA	WALL MOUNTED, LINEAR, LED LIGHTING, 277V.	770Lm/ft / -	VODE #107-WG-01-XX-WA-XX-XX-AE-2-Z-SO-35-1-XX OR EQUAL BY SPI
XA XB	UNIVERSAL EXIT SIGN, GREEN LETTERS, BATTERY, 120V. XA = SINGLE FACE XB = DOUBLE FACE		COOPER LIGHTING #EU-S-7-O-B OR EQUAL BY COMPASS & LITHONIA

NOTES:

1. MANUFACTURER'S PART NUMBERS ARE FOR LEVEL OF QUALITY AND PERFORMANCE. E.C. IS TO PROVIDE ALL OPTIONS AND ACCESSORIES TO COMPLY WITH DESCRIPTION AS WELL AS MODEL NOS.
2. 10 DAY PRIOR APPROVAL IS REQUIRED ON ALL FIXTURES NOT SPECIFICALLY CALLED OUT OR LISTED AS "OR EQUAL."
3. E.C. IS TO COORDINATE FIXTURE COLORS WITH ARCHITECT PRIOR TO ORDERING.
4. E.C. IS TO VERIFY CEILING TYPE AND COMPATIBILITY WITH FIXTURES PRIOR TO ORDERING.
5. FUSE FIXTURES IN FIELD.
6. EMERGENCY TRANSFER DEVICE TO BE BODINE OR EQUAL.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK		DATE	DESCRIPTION
		2017-10-06	SCHEMATIC DESIGN
		2017-11-22	PRELIMINARY DESIGN
		2018-02-02	90% CONSTRUCTION DOCUMENTS
		2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
		2018-03-28	CONSTRUCTION DOCUMENTS
	1	2018-04-12	Addendum #2
	2	2018-04-20	Addendum #3

Project Number 10062179
Original Issue 2017-11-22 -

ALABAMA LICENSED NO. 17960 PROFESSIONAL ENGINEER M. ELISABETH HYDE
3-28-18

Sheet Name
Lighting Schedule and Details

Sheet Number
E-011

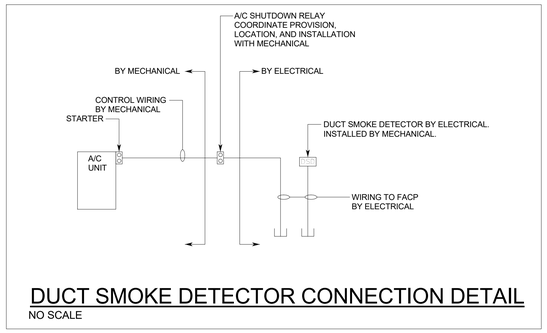
Project Status
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER ELISABETH HYDE | PROJECT # 17061.0

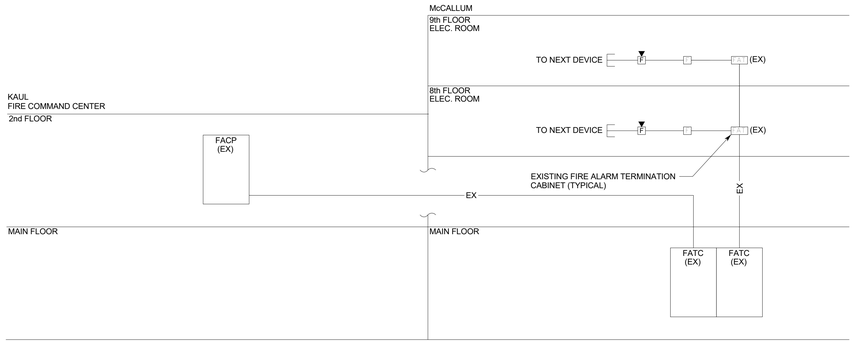
4/19/2018 4:32:29 PM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt



DUCT SMOKE DETECTOR CONNECTION DETAIL

NO SCALE



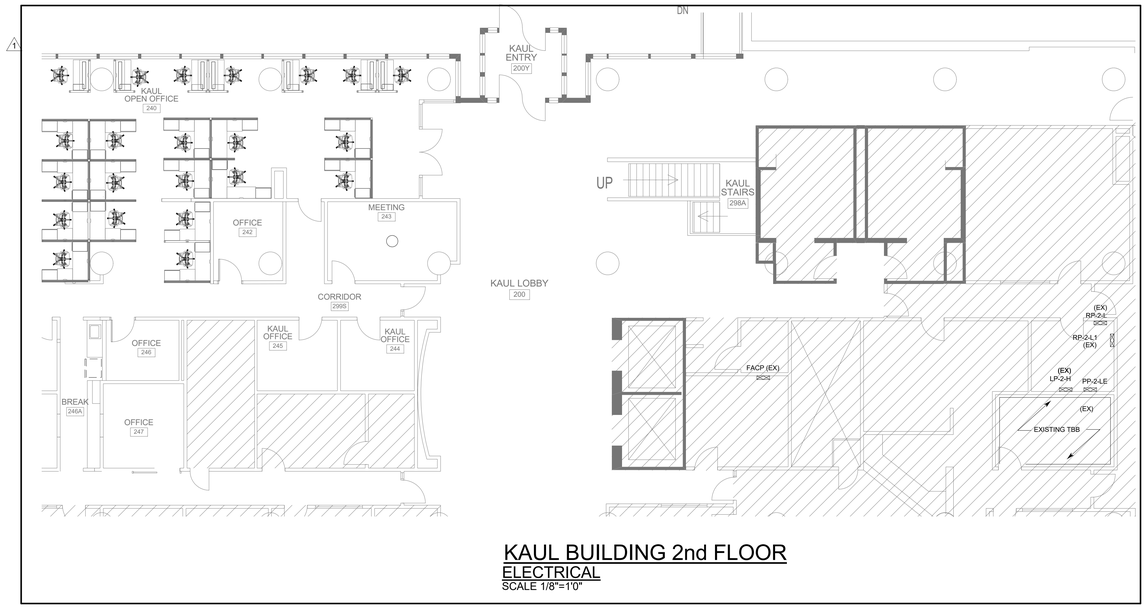
RISER DIAGRAM

FIRE ALARM SYSTEM

NO SCALE

NOTES:

1. PROVIDE WIRING IN CONDUIT PER MANUFACTURERS REQUIREMENTS.
2. SEE FLOOR PLAN FOR LOCATION AND QUANTITY OF DEVICES.
3. FIRE ALARM SYSTEM LAYOUT IS DIAGRAMMATIC ONLY. PROVIDE ADDITIONAL DEVICES AS REQUIRED BY CODE AND LOCAL AUTHORITIES.
4. COORDINATE LOCATIONS AND CONNECTIONS OF HVAC SHUTDOWN RELAYS WITH HVAC/CONTROLS VENDOR.
5. CONNECTION FOR TAMPER & FLOW SWITCHES AND OS&Y VALVE TO REMAIN.
6. SHUTDOWN OF ELEVATOR ON ACTIVATION OF SPRINKLERS TO REMAIN.
7. INTERFACE TO ELEVATOR RECALL SYSTEM TO REMAIN.
8. PROVIDE ADDRESSABLE SYSTEM.
9. PROVIDE ADDITIONAL EQUIPMENT REQUIRED TO ADD DEVICES SHOWN. PROVIDE 120 VOLT POWER AS REQUIRED.
10. PROVIDE REMOTE STATUS & TEST LOCATION IN ACCESSIBLE AREA FOR DEVICES NOT READILY VISIBLE OR ACCESSIBLE. INCLUDING BUT NOT LIMITED TO DUCT SMOKE DETECTORS.
11. SPEAKERS SHALL BE OF SUFFICIENT SOUND LEVEL TO MEET NFPA 72 SOUND LEVEL CRITERIA, TYPICALLY 72dBA.
12. ALL STROBES SHALL BE SYNCHRONIZED.



KAUL BUILDING 2nd FLOOR

ELECTRICAL

SCALE 1/8"=1'0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	Addendum #2
2	2018-04-26	Addendum #4

Project Number 10062179
Original Issue 2017-11-22 -

ALABAMA
CERTIFICATE
NO. 17960
PROFESSIONAL
ENGINEER
ELISABETH HYDE
3-28-18

Sheet Name

Fire Alarm Riser and Details

Sheet Number

E-012

Project Status

CONSTRUCTION DOCUMENTS

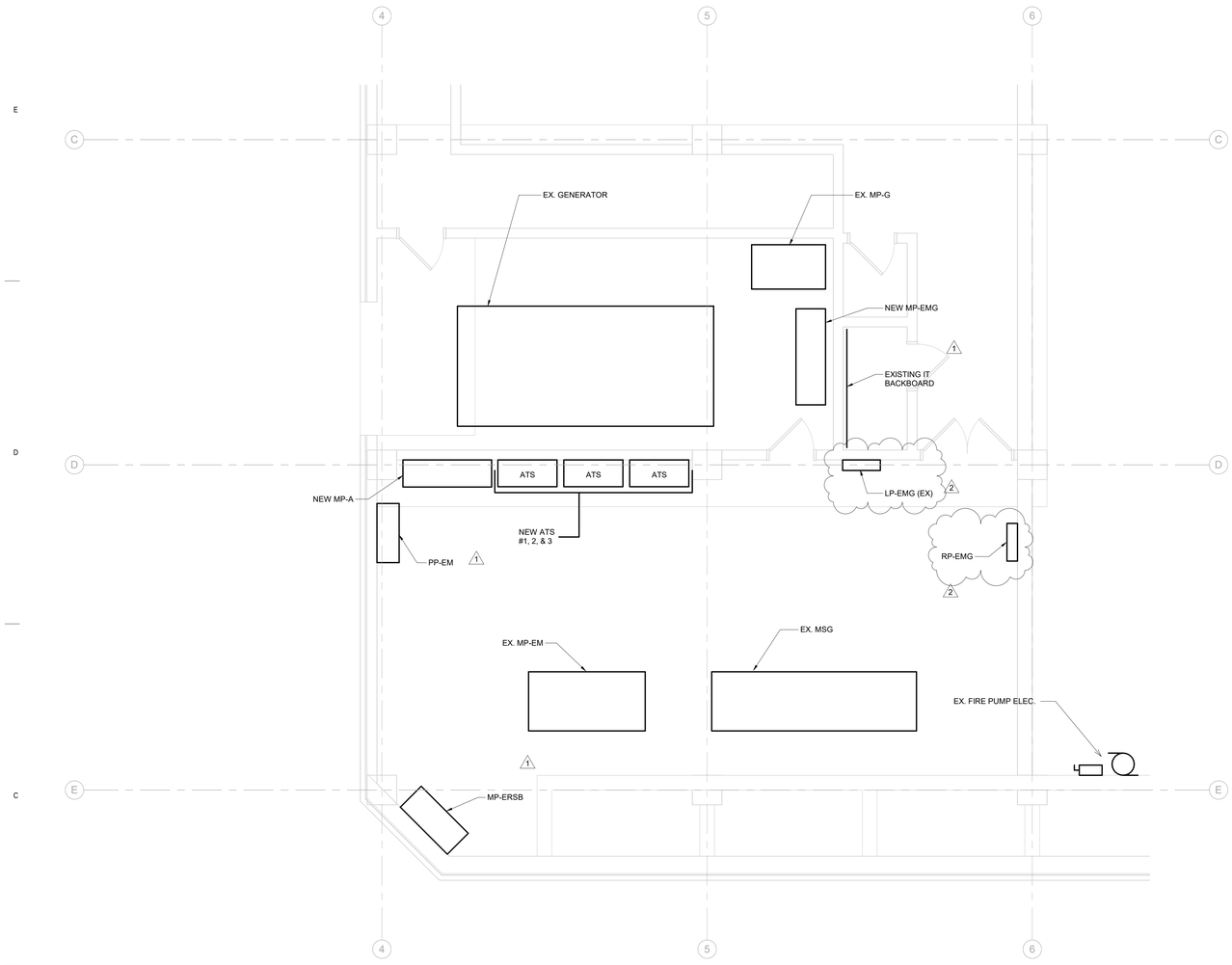
HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER
ELISABETH HYDE

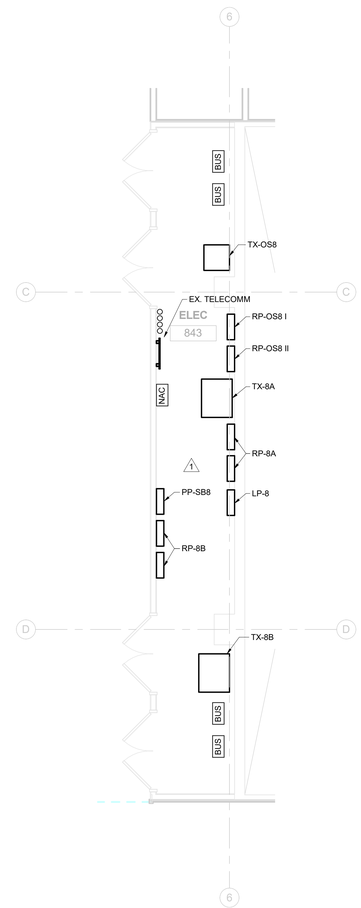
PROJECT #
17061.0

4/26/2018 10:30:41 AM

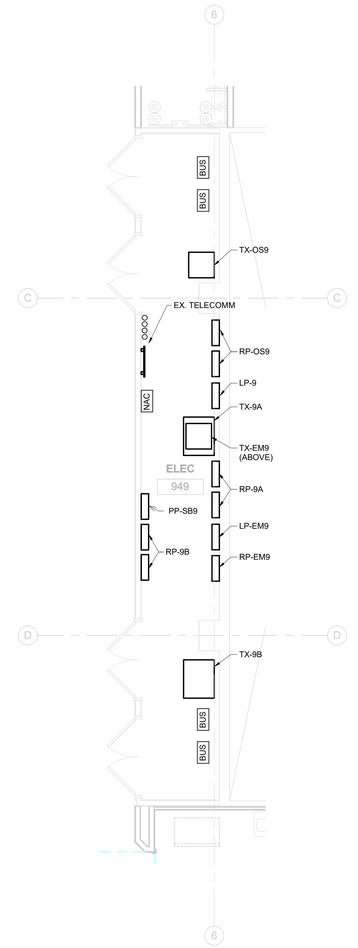
\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCAllum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt



3 ENLARGED GROUND FLOOR PLAN - ELECTRICAL
1/4" = 1'-0"



1 ENLARGED 8TH FLOOR ELECTRICAL ROOM
1/4" = 1'-0"



2 ENLARGED 9TH FLOOR ELECTRICAL ROOM
1/4" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
?	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	Addendum #2
2	2018-04-26	Addendum #4

Project Number 10062179
Original Issue 11/10/17 -

ALABAMA LICENSED PROFESSIONAL ENGINEER NO. 17960 ELISABETH HYDE 3-28-18

Sheet Name
Enlarged Floor Plans

Sheet Number
E-013

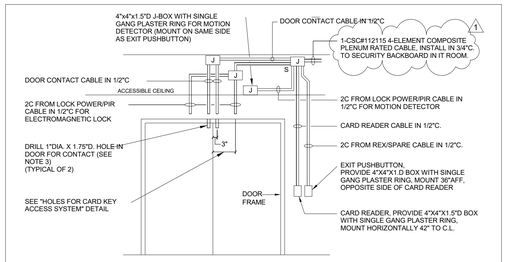
Project Status
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-0911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER ELISABETH HYDE | PROJECT # 17061.0

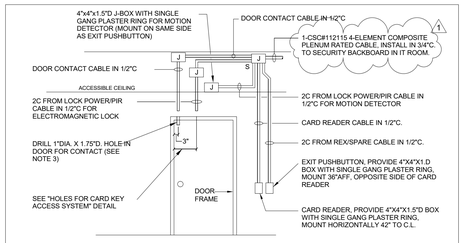
4/26/2018 10:30:51 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt



DETAIL - CARD KEY ACCESS SYSTEM - DOUBLE DOOR

NO SCALE



DETAIL - CARD KEY ACCESS SYSTEM - SINGLE DOOR

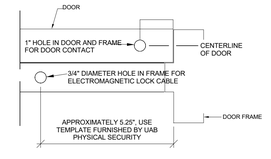
NO SCALE

ACCESS CONTROL SYSTEM COORDINATION

1. BEFORE PREPARING DOORS, WALLS, ETC. FOR SECURITY HARDWARE, CONTACT UAB PHYSICAL SECURITY, TELEPHONE NO. (205) 934-3708 (SECURITY SYSTEMS SPECIALIST), AND THEY SHALL ADVISE OF SYSTEM REQUIREMENTS ON BEHALF OF THE OWNER.
2. LINE CONDUIT UP WITH DOOR CONTACT HOLE IN DOOR AND LEAVE 2.5" GAP BETWEEN HOLE AND CONDUIT
3. ALL CABLES SHALL RUN FROM POINT TO POINT. SPLICES AND TERMINAL BLOCKS SHALL NOT BE ALLOWED. PROVIDE PULLBOX FOR ANY RUN OVER 50'.
4. PROVIDE 6#14-1/2"C FROM SECURITY BACKBOARD TO FIRE ALARM CONTROL PANEL (VERIFY LOCATION) AND HAVE FIRE ALARM SYSTEM VENDOR TERMINATE IN FIRE ALARM CONTROL PANEL TO INTERRUPT POWER TO LOCKS UNDER FIRE ALARM. UAB SECURITY SHALL DETERMINE WHICH BACKBOARD(S) REQUIRES THIS CONNECTION. COORDINATE WITH UAB SECURITY.
5. SECURITY CONDUIT SHALL BE GALVANIZED STEEL EMT WITH SET SCREW FITTINGS IN DRY LOCATIONS, CONCEALED IN WALLS AND ABOVE CEILINGS. COLOR CODE CONDUIT BLUE AND "SEC" WRITTEN CODE.
6. COORDINATE FINAL HARDWARE REQUIREMENTS WITH HARDWARE VENDOR.
7. CARD READERS AND PUSH TO EXITS ARE OWNER FURNISHED AND OWNER INSTALLED.

SECURITY SYSTEM LEGEND

●	PUSH-TO-EXIT PUSHBUTTON: SEE DETAIL.
DC	SECURITY SYSTEM - DOOR CONTACT
ML	ELECTROMAGNETIC LOCK
CR	CARD READER: SEE DETAIL.
MD	MOTION DETECTOR: SEE DETAIL.
ES	ELECTRIC STRIKE
S J	MAIN J-BOX ABOVE DOORS
CAM	SECURITY CAMERA: D2, 2-PORT DATA STATION. SEE DETAIL. SECURITY CAMERAS ARE OWNER PROVIDED AND OWNER INSTALLED.



*NOTE: THIS DETAIL IS FOR SINGLE DOOR INSTALLATION. DOUBLE DOOR MEASURMENTS ARE FROM CENTER OF DOOR FRAME

DETAIL - HOLES FOR CARD KEY ACCESS SYSTEM

NO SCALE

CABLING REQUIREMENTS

- LOW VOLTAGE, PLENUM RATED
- FRPVC
- COPPER CONDUCTOR
- U.L. LISTED TYPE CMP
- SHIELDED
- YELLOW JACKET
- 75°C-300V

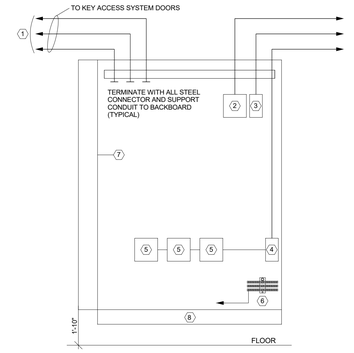
ACCESS/JKTPLEM/4SHLD OR EQUAL

APPLICATION:

LOCK POWER	DOOR CONTACT	CARD READER
18-4C	22-2C	22-3P

SPECIFICATIONS - SECURITY BACKBOARD

1. MAXIMUM NUMBER OF ACCESS SYSTEM CABLES IN CONDUIT ONE (1) CABLE IN 3/4"C., TWO (2) CABLES IN 1"C., THREE (3) CABLES IN 1.25"C.
2. FIRE ALARM INTERFACE MODULE. TO FIRE ALARM CONTROL PANEL. COORDINATE EXACT REQUIREMENTS WITH UAB PHYSICAL SECURITY AND FIRE ALARM VENDOR.
3. VOICE/DATA OUTLET. PROVIDE REQUIRED CABLING IN CONDUIT TO VOICE/DATA BACKBOARD. COORDINATE WITH UAB PHYSICAL SECURITY AND UAB COMMUNICATIONS.
4. TOGGLE SWITCH 20A, 120-277V, 1 POLE, MOUNT IN SINGLE GANG BOX AND USE AS DISCONNECT FOR SECURITY POWER SUPPLIES.
5. 4" SQUARE BOX WITH SINGLE GANG DEVICE RING FOR EACH POWER SUPPLY. PROVIDE 2#12&1#12(G) FROM DISCONNECT (TOGGLE) SWITCH. QUANTITY OF POWER SUPPLIES SHALL BE OBTAINED FROM UAB PHYSICAL SECURITY.
6. FURNISH AND INSTALL ILSCO #NB330 OR EQUAL TERMINAL BLOCK WITH 1#10 GREEN GROUND CONDUCTOR TO DATA/COMM GROUNDING BUS BAR.
7. BACKBOARD SHALL BE 3/4" PLYWOOD; PAINTED FRONT, BACK AND EDGES BEFORE INSTALLATION WITH TWO (2) COATS OF FIRE RETARDANT GRAY PAINT.
8. BACKBOARD SHALL GENERALLY BE 4' WIDE.



DETAIL - SECURITY BACKBOARD (SB)

NO SCALE

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	Addendum #2

Project Number 10062179
Original Issue 02/21/18 -

ALABAMA
Elisabeth Hyde
NO. 17960
PROFESSIONAL
ENGINEER
ELISABETH HYDE
3-28-18

Sheet Name

Security Details

Sheet Number

E-014

Project Status

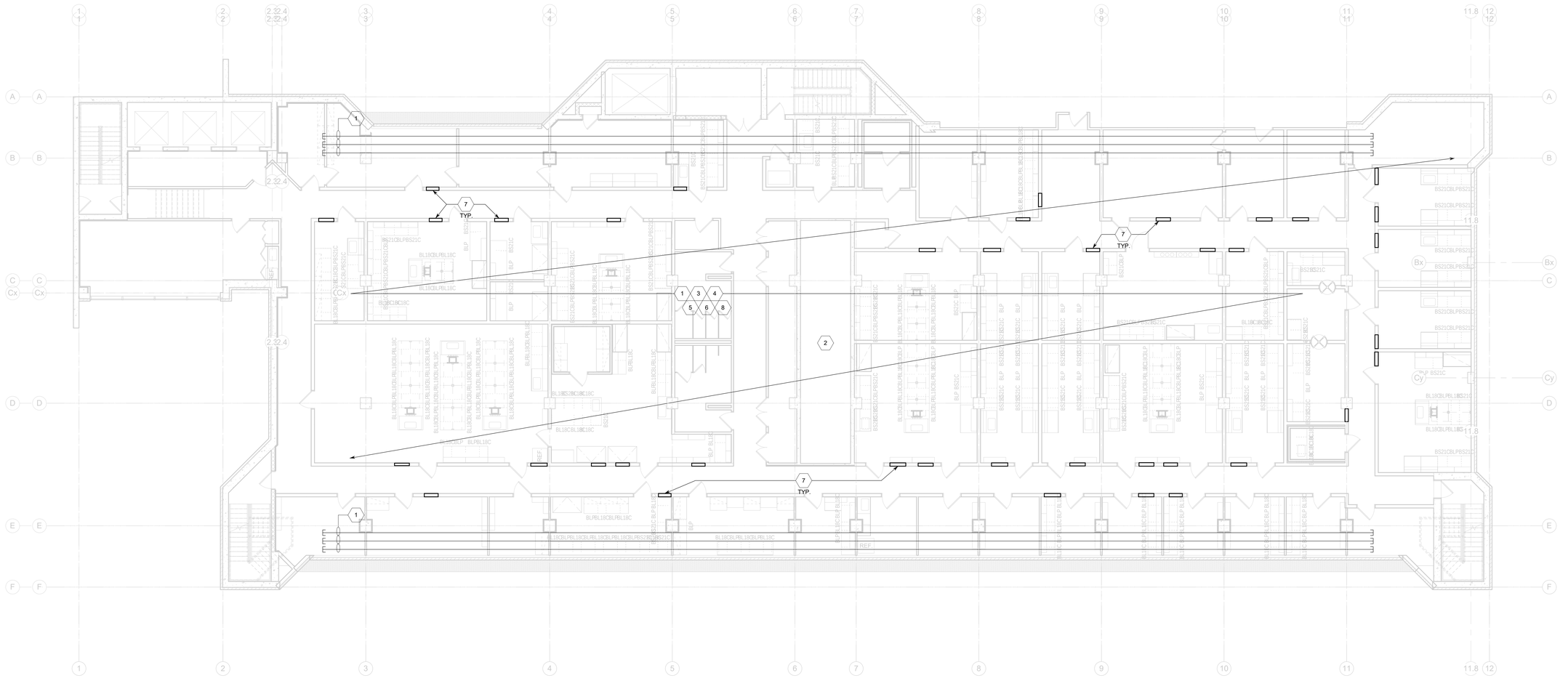
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER	PROJECT #
ELISABETH HYDE	17061.0

4/12/2018 9:53:14 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt



1 8TH FLOOR Demolition
1/8" = 1'-0"

NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT EXTENT OF DEMOLITION.
2. REMOVE ALL ABANDONED CONDUIT AND WIRE.

KEYED NOTES:

1. REMOVE EXISTING HORIZONTAL BUS DUCT IN ITS ENTIRITY.
2. EXISTING VERTICAL BUS RISERS TO REMAIN. CONTRACTOR MAY USE EXISTING NORMAL POWER RISER FOR TEMPORARY CONSTRUCTION POWER.
3. REMOVE ALL EXISTING PANELS AND TRANSFORMERS IN AREA TO BE DEMOLISHED.
4. REMOVE ALL EXISTING LIGHTING AND SWITCHES IN AREA TO BE DEMOLISHED.
5. REMOVE ALL EXISTING RECEPTACLES AND BOXES IN AREA TO BE DEMOLISHED.
6. FIRE ALARM EQUPMENT PANELS TO REMAIN. FIRE ALARM SYSTEM TO BE MAINTAINED DURING CONSTRUCTION. EXISTING DEVICES REMOVED ONCE NEW SYSTEM IS OPERATIONAL. PROVIDE FIRE WATCH AS REQUIRED.
7. REMOVE EXISTING PANELS FED FROM HORIZONITAL BUS DUCT. PANELS SHOWN ARE INDICATIVE OF EXISTING CONDITIONS BUT MAY NOT SHOW ALL EXISTING PANELS.
8. REMOVE EXISTING CABLE TRAYS ABOVE CEILING.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 03/20/18 -

ALABAMA LICENSED PROFESSIONAL ENGINEER ELISABETH HYDE NO. 17960 3-28-18

Sheet Name
8th Floor Plan - Demolition

Sheet Number
E-100a

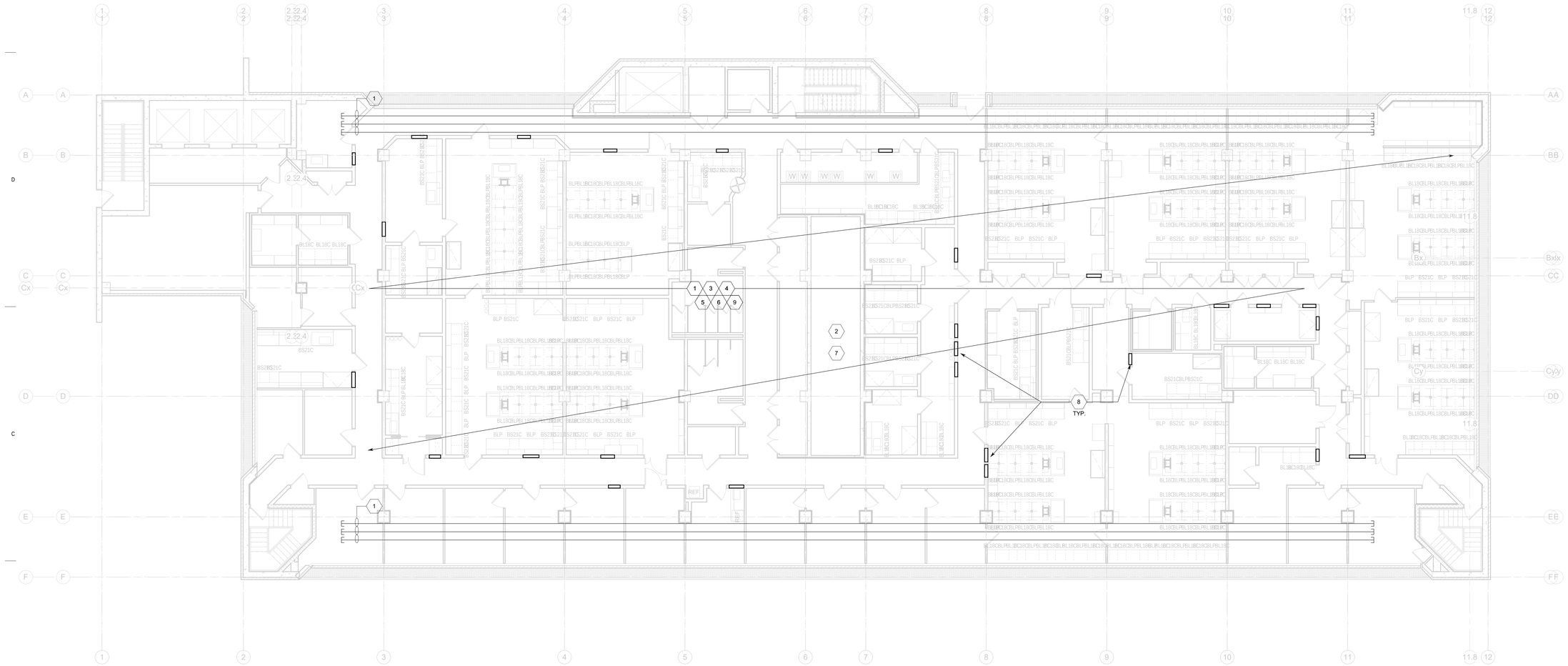
Project Status
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-0911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER ELISABETH HYDE
PROJECT # 17061.0

3/28/2018 10:48:02 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt



1 9TH FLOOR Demolition
1/8" = 1'-0"

NOTES:

1. REFER TO ARCHITECTURAL DRAWINGS FOR EXACT EXTENT OF DEMOLITION.

KEYED NOTES:

1. REMOVE EXISTING HORIZONTAL BUS DUCT IN ITS ENTIRITY.
2. EXISTING VERTICAL BUS RISERS TO REMAIN. CONTRACTOR MAY USE EXISTING NORMAL POWER RISER FOR TEMPORARY CONSTRUCTION POWER.
3. REMOVE ALL EXISTING PANELS AND TRANSFORMERS IN AREA TO BE DEMOLISHED.
4. REMOVE ALL EXISTING LIGHTING AND SWITCHES IN AREA TO BE DEMOLISHED.
5. REMOVE ALL EXISTING RECEPTACLES AND BOXES IN AREA TO BE DEMOLISHED.
6. FIRE ALARM EQUPMENT PANELS TO REMAIN. FIRE ALARM SYSTEM TO BE MAINTAINED DURING CONSTRUCTION. EXISTING DEVICES REMOVED ONCE NEW SYSTEM IS OPERATIONAL. PROVIDE FIRE WATCH AS REQUIRED.
7. EXISTING PENTHOUSE FEED TO REMAIN.
8. REMOVE EXISTING PANELS FED FROM HORIZONTAL BUS DUCT. PANELS SHOWN ARE IDICATIVE OF EXISTING CONDITIONS BUT MAY NOT SHOW ALL EXISTING PANELS.
9. REMOVE EXISTING CABLE TRAYS ABOVE CEILING.

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-0911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER
ELISABETH HYDE

PROJECT #
17061.0

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 03/20/18 -

ALABAMA ELISABETH HYDE NO. 17960 PROFESSIONAL ENGINEER
3-28-18

Sheet Name
9th Floor Plan - Demolition

Sheet Number
E-100b

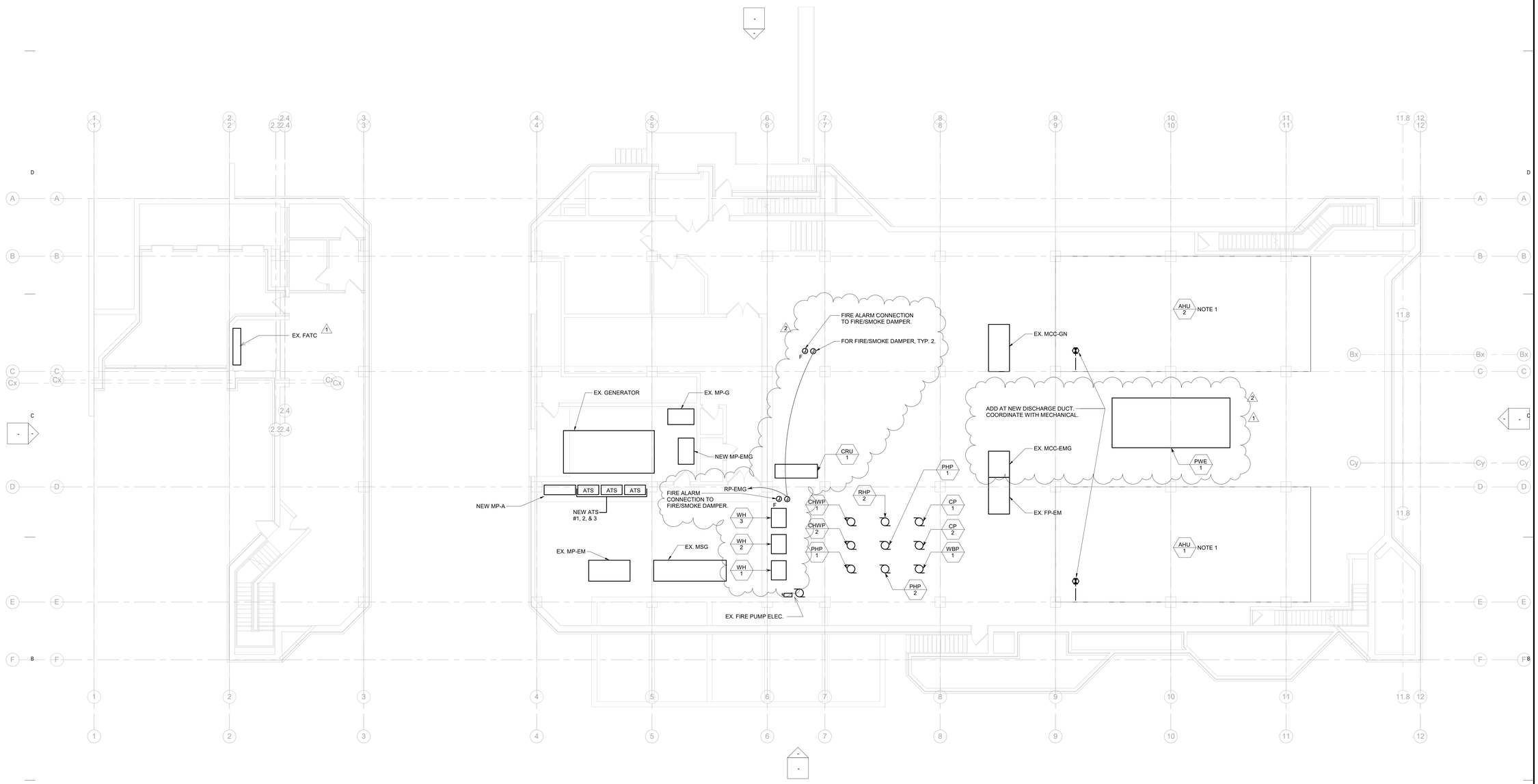
Project Status
CONSTRUCTION DOCUMENTS

3/28/2018 10:48:13 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt

SHEET NOTES:

1. EXISTING AIR HANDLERS 1 & 2 REPLACED WITH NEW. DISCONNECT EXISTING ELECTRICAL AND RECONNECT TO NEW EQUIPMENT. COORDINATE SCHEDULE OF WORK WITH MECHANICAL.
2. CONFIRM LOCATION OF NEW PUMPS WITH MECHANICAL.
3. PROVIDE NEW 20/1 BREAKERS IN EXISTING PANEL 'RP-EMG' AS REQUIRED.



1 GROUND FLOOR PLAN - ELECTRICAL
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	Addendum #2
2	2018-04-26	Addendum #4

Project Number 10062179
Original Issue 2017-11-22 -

ALABAMA LICENSED PROFESSIONAL ENGINEER NO. 17960 M. ELISABETH HYDE 3-28-18

Sheet Name
Ground Floor Plan - Electrical

Sheet Number
E-101

Project Status
CONSTRUCTION DOCUMENTS

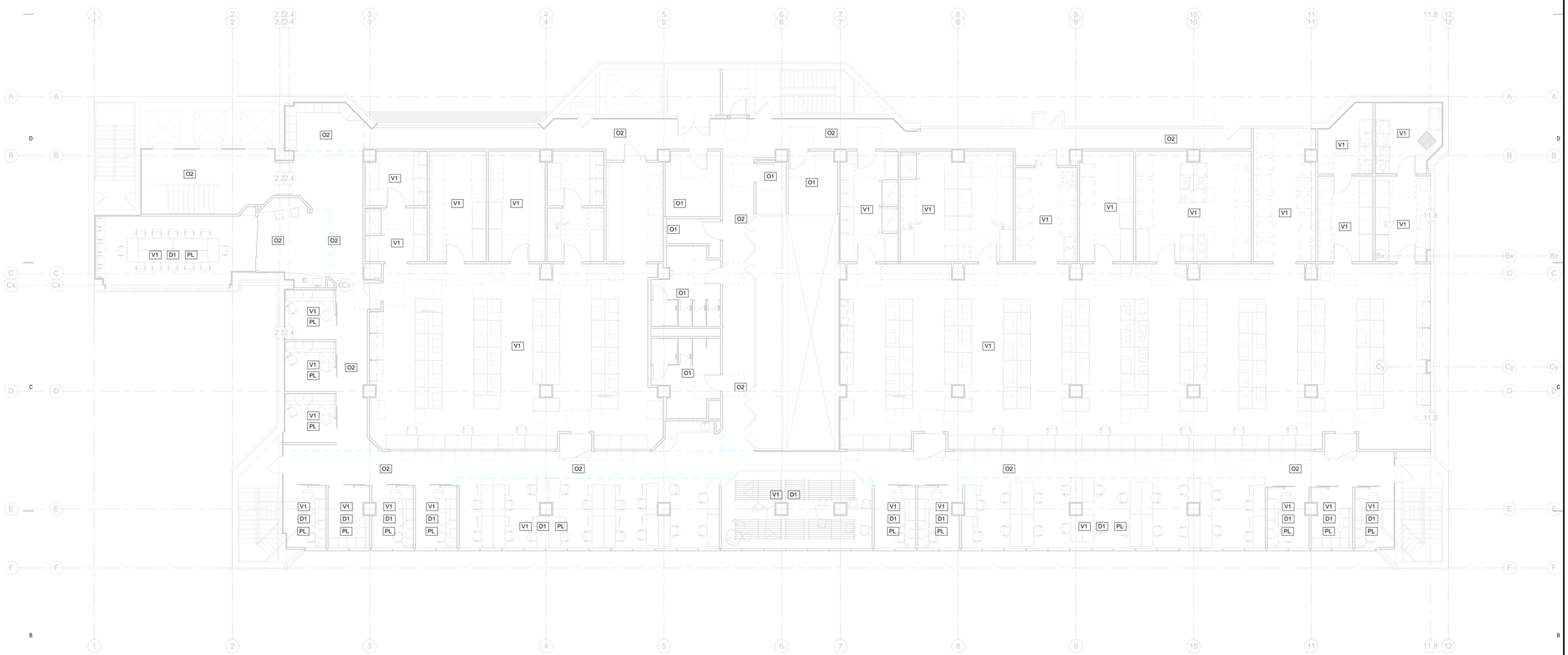
HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER ELISABETH HYDE
PROJECT # 17061.0

4/26/2018 3:50:07 PM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt

MARK	DESCRIPTION
V1	MANUAL ON, BI-LEVEL CONTROL, OCCUPANCY OFF. ALL FIXTURES ARE TO BE DIMMABLE.
V2	MANUAL ON, OCCUPANCY OFF.
O1	OCCUPANCY ON, OCCUPANCY OFF.
O2	OCCUPANCY ON, OCCUPANCY OFF, OCCUPANCY PARTIAL OFF.
D1	DAYLIGHT - DIM TO 50% AND 20% OF MAXIMUM OUTPUT.
D2	DAYLIGHT - BI-LEVEL ON/OFF, TRIGGER AT XXFC.
R1	RELAY - TIMER AND/OR PHOTOCELL ON/OFF, SCHEDULE PER DETAIL.
R2	RELAY - TIMER AND/OR PHOTOCELL AND/OR MOMENTARY SWITCHES, ON/OFF, SCHEDULE PER DETAIL.
M	MANUAL ON/OFF.
T	TIMER SWITCH ON/OFF.
PL	PLUG LOAD CONTROLS.



1 8TH FLOOR PLAN - Electrical Reference & Lighting Control
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 01/25/18 -

ALABAMA
ELISABETH HYDE
NO. 17960
PROFESSIONAL ENGINEER
3-28-18

Sheet Name

Eighth Floor Electrical Reference & Lighting Control

Sheet Number

E-106

Project Status

CONSTRUCTION DOCUMENTS

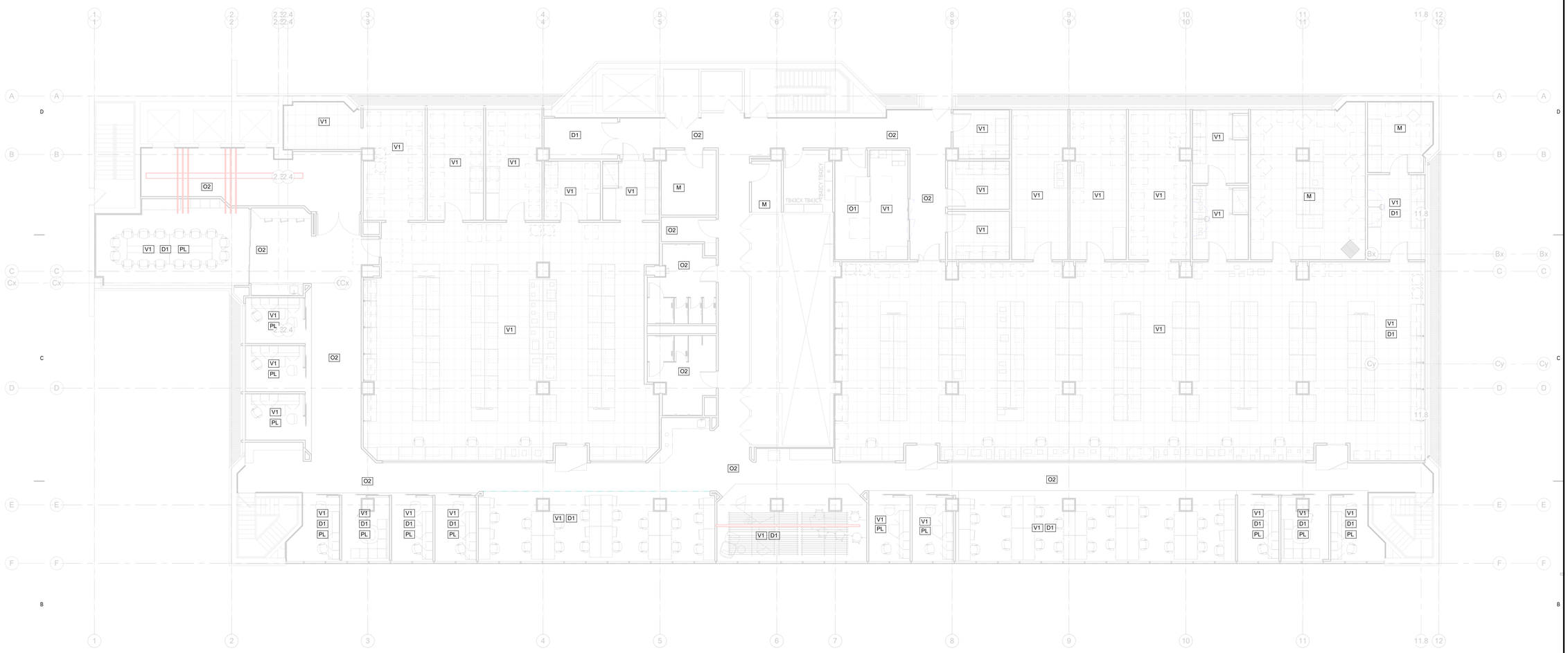
HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-0911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER: ELISABETH HYDE
PROJECT #: 17061.0

3/28/2018 10:48:43 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt

MARK	DESCRIPTION
V1	MANUAL ON, BI-LEVEL CONTROL, OCCUPANCY OFF. ALL FIXTURES ARE TO BE DIMMABLE.
V2	MANUAL ON, OCCUPANCY OFF.
O1	OCCUPANCY ON, OCCUPANCY OFF.
O2	OCCUPANCY ON, OCCUPANCY OFF, OCCUPANCY PARTIAL OFF.
D1	DAYLIGHT - DIM TO 50% AND 20% OF MAXIMUM OUTPUT.
D2	DAYLIGHT - BI-LEVEL ON/OFF, TRIGGER AT XXFC.
R1	RELAY - TIMER AND/OR PHOTOCELL ON/OFF, SCHEDULE PER DETAIL.
R2	RELAY - TIMER AND/OR PHOTOCELL AND/OR MOMENTARY SWITCHES, ON/OFF, SCHEDULE PER DETAIL.
M	MANUAL ON/OFF.
T	TIMER SWITCH ON/OFF.
PL	PLUG LOAD CONTROLS.



1 9TH FLOOR PLAN - Electrical Reference & Lighting Control
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 01/25/18 -

ALABAMA LICENSED PROFESSIONAL ENGINEER
M. Elisabeth Hyde
NO. 17960
ELISABETH HYDE
3-28-18

Sheet Name
Ninth Floor Electrical Reference & Lighting Control

Sheet Number
E-107

Project Status
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM
ENGINEER ELISABETH HYDE
PROJECT # 17061.0

3/28/2018 10:49:10 AM
\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt

KEYED NOTES:

1. EXISTING LIGHTING TO REMAIN. RE-CIRCUIT AS REQUIRED.

NOTES:

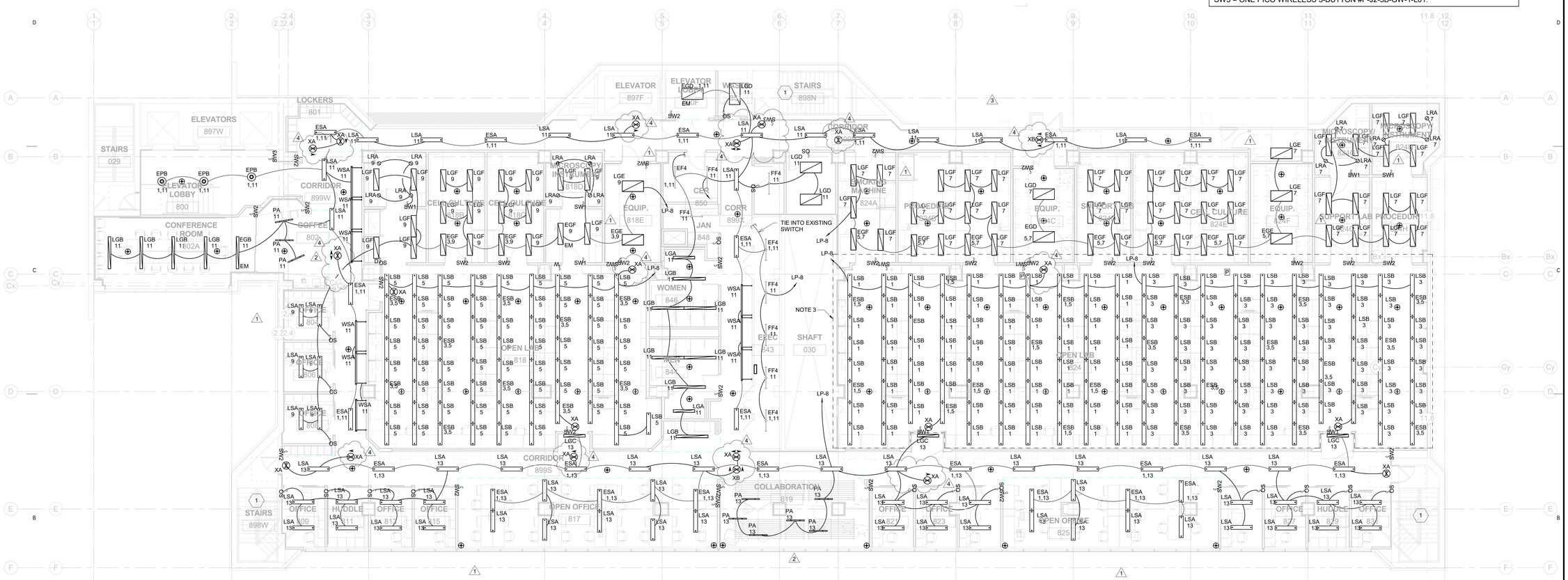
1. SEE ARCHITECTURAL RCP FOR EXACT PLACEMENT OF FIXTURES.
2. SEE SHEET E308 FOR MORE INFORMATION ON LIGHTING CONTROLS.
3. THE LIGHTING IN THIS LAB IS TO BE IN TWO ZONES AS INDICATED ON FLOOR PLAN. OCCUPANCY SENSORS ARE TO ONLY CONTROL LIGHTS WITHIN THEIR INDICATED ZONE. EACH SWITCH LOCATION IS TO HAVE TWO SEPARATE SWITCHES TO CONTROL EACH ZONE INDEPENDENTLY.
4. POWER PACKS ARE NOT SHOWN. CONFIRM REQUIRED NUMBER AND LOCATION WITH MANUFACTURER PRIOR TO ORDERING AND BIDDING.
5. PROVIDE EMERGENCY TRANSFER DEVICE AT EACH EMERGENCY FIXTURE. EMERGENCY CIRCUITING IS NOT SHOWN FOR CLARITY.
6. PROVIDE NEUTRAL AT ALL SWITCHES.
7. SEE ENLARGED FLOOR PLANS ON SHEET E0.13 FOR PANEL LOCATIONS.

SWITCH LEGEND

SW1 = TWO PICO WIRELESS 3-BUTTON WITH RAISE/LOWER #P-J2-3BRL-GW-1-L01.

SW2 = ONE PICO WIRELESS 3-BUTTON WITH RAISE/LOWER #P-J2-3BRL-GW-1-L01.

SW3 = ONE PICO WIRELESS 3-BUTTON #P-J2-3B-GW-1-L01.



1 8TH FLOOR PLAN - LIGHTING
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	Addendum #1
2	2018-04-12	Addendum #2
3	2018-04-20	Addendum #3
4	2018-04-26	Addendum #4

Project Number 10062179
Original Issue 2017-11-22 -

ALABAMA LICENSED ELISABETH HYDE NO. 17960 PROFESSIONAL ENGINEER ELISABETH HYDE 3-28-18

Sheet Name

Eighth Floor Plan - Lighting

Sheet Number

E-108

Project Status

CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-0911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER ELISABETH HYDE | PROJECT # 17061.0

4/26/2018 10:31:23 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt

KEYED NOTES:

1. EXISTING LIGHTING TO REMAIN. RE-CIRCUIT AS REQUIRED.

NOTES:

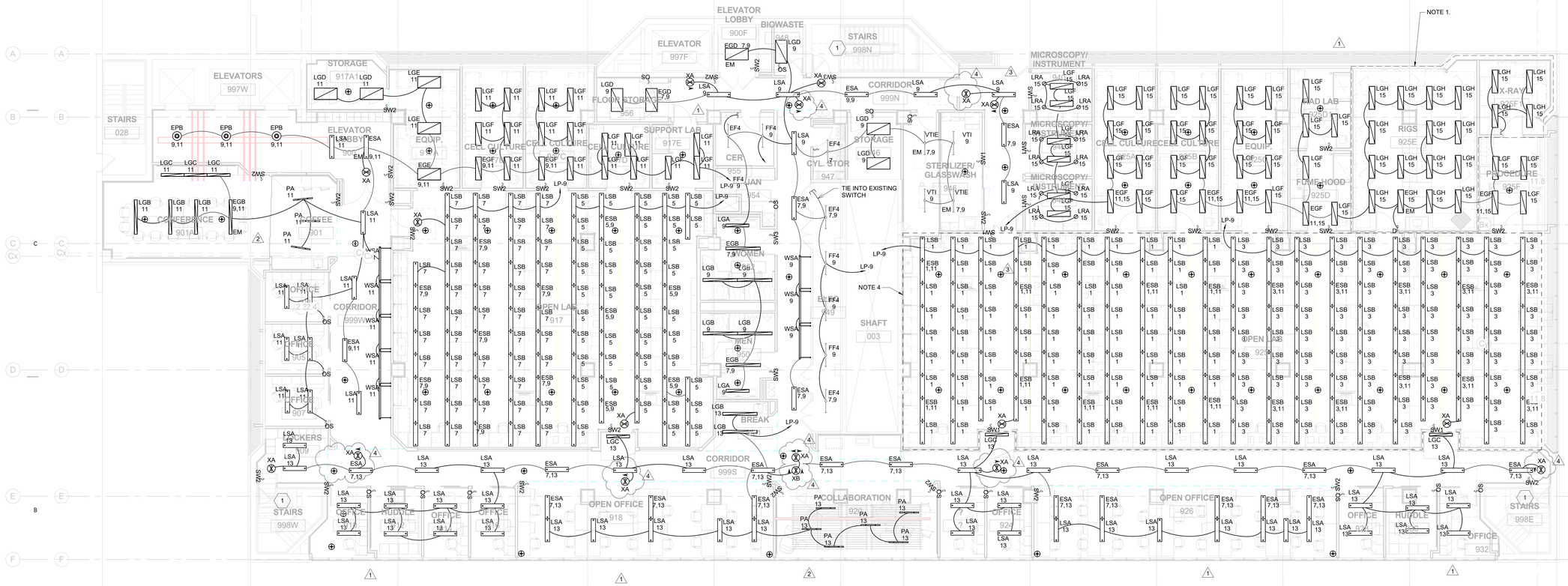
1. THESE ROOMS WILL BE ENCLOSED IN FARADAY CAGES. THE POWER SOURCE FOR THE FIXTURES IS TO BE LOCATED IN AN ACCESSIBLE CEILING OUTSIDE OF THE FARADAY CAGE.
2. SEE ARCHITECTURAL RCP FOR EXACT PLACEMENT OF FIXTURES.
3. SEE SHEET E308 FOR MORE INFORMATION ON LIGHTING CONTROLS.
4. THE LIGHTING IN THIS LAB IS TO BE IN TWO ZONES AS INDICATED ON FLOOR PLAN. OCCUPANCY SENSORS ARE TO ONLY CONTROL LIGHTS WITH THEIR INDICATED ZONE. EACH SWITCH LOCATION IS TO HAVE TWO SEPARATE SWITCHES TO CONTROL EACH ZONE INDEPENDENTLY.
5. PROVIDE EMERGENCY TRANSFER DEVICE AT EACH EMERGENCY FIXTURE. EMERGENCY CIRCUITING IS NOT SHOWN FOR CLARITY.
6. POWER PACKS ARE NOT SHOWN. CONFIRM REQUIRED NUMBER WITH MANUFACTURER PRIOR TO BIDDING AND ORDERING.
7. PROVIDE NEUTRAL AT ALL SWITCHES.
8. SEE ENLARGED PLAN ON SHEET E-013 FOR PANEL LOCATIONS.

SWITCH LEGEND

SW1 = TWO PICO WIRELESS 3-BUTTON WITH RAISE/LOWER #P-J2-3BRL-GW-1-L01.

SW2 = ONE PICO WIRELESS 3-BUTTON WITH RAISE/LOWER #P-J2-3BRL-GW-1-L01.

SW3 = ONE PICO WIRELESS 3-BUTTON #P-J2-3B-GW-1-L01.



1 9TH FLOOR PLAN - LIGHTING
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	Addendum #1
2	2018-04-12	Addendum #2
3	2018-04-20	Addendum #3
4	2018-04-26	Addendum #4

Project Number 10062179
Original Issue 2017-11-22 -

L. E. HYDE
ELISABETH HYDE
NO. 17960
PROFESSIONAL
ENGINEER
ELISABETH HYDE
3-28-18

Sheet Name
Ninth Floor Plan - Lighting

Sheet Number
E-109

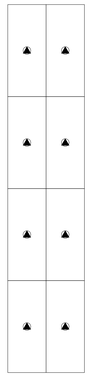
Project Status
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0600
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER ELISABETH HYDE
PROJECT # 17061.0

4/26/2018 10:31:47 AM

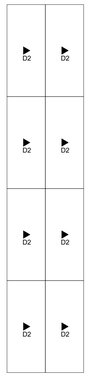
\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt



DETAIL - LAB POWER

SCALE 1/4"=1'0"

Detail - Lab Power
1/4" = 1'-0"



DETAIL - LAB IT

SCALE 1/4"=1'0"

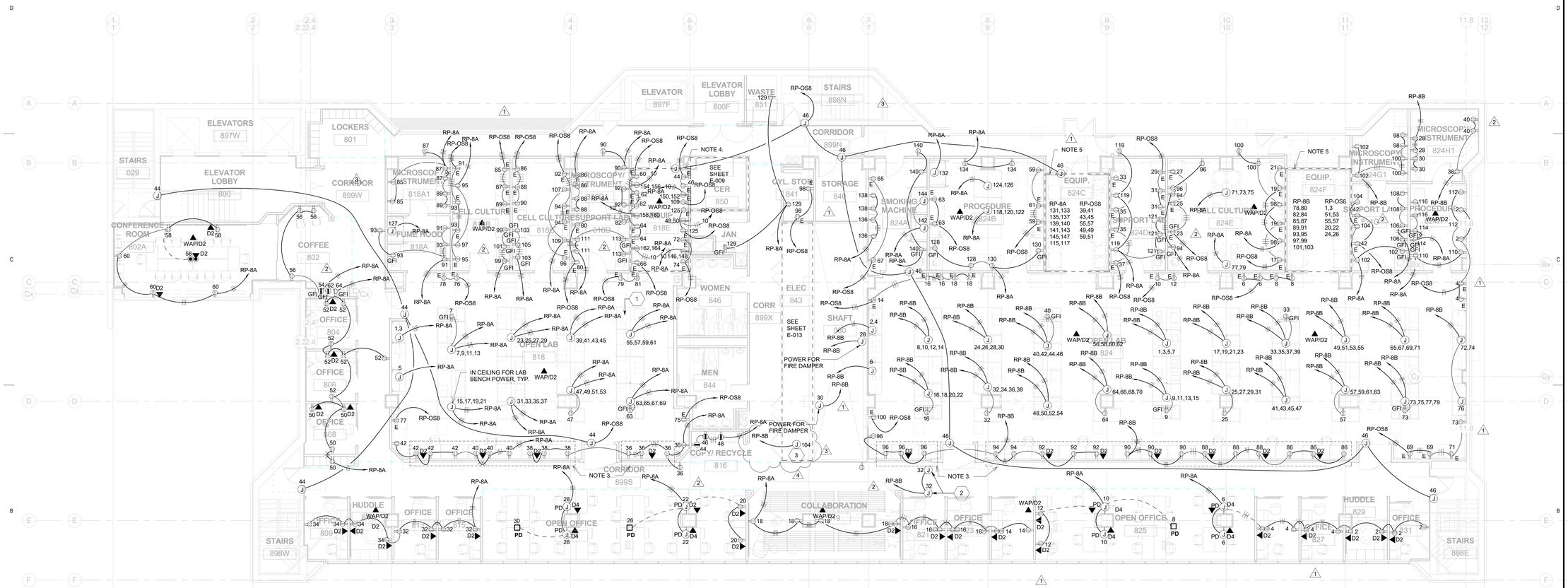
Detail - Lab IT
1/4" = 1'-0"

NOTES:

1. REFER TO LAB EQUIPMENT DRAWINGS FOR ADDITIONAL REQUIREMENTS OF LAB EQUIPMENT.
2. ALL OUTLETS IN LABS AND LAB SUPPORT ROOMS TO BE AT 42" AFF UNLESS OTHERWISE NOTED.
3. OUTLETS MOUNTED ALONG WINDOW WALL NEED TO BE MOUNTED BELOW WINDOWS. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT.
4. TYPICAL SMALL EQUIPMENT ROOM RECEPTACLE LAYOUT.
5. ONLY CIRCUIT NUMBERS ARE SHOWN FOR CLARITY. REFER TO TYPICAL SMALL EQUIPMENT ROOM LAYOUT FOR RECEPTACLE AND CIRCUITING REQUIREMENTS.
6. SEE DETAIL ON SHEET E008 FOR PLUG LOAD CONTROL INFORMATION.

KEYED NOTES:

1. SEE DETAIL THIS SHEET FOR LAB BENCH POWER & IT. TYPICAL FOR ALL LAB BENCHES.
2. POWER FOR EMERGENCY CAS VALVE AND ASSOCIATED SOLENOID.
3. POWER FOR TWO FIRE/SMOKE DAMPERS.



8TH FLOOR PLAN - POWER AND IT
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	Addendum #1
2	2018-04-12	Addendum #2
3	2018-04-20	Addendum #3
4	2018-04-26	Addendum #4

Project Number	10062179
Original Issue	2017-11-22 -

ALABAMA
MELISABETH HYDE
NO. 17960
PROFESSIONAL ENGINEER
MELISABETH HYDE
3-28-18

Sheet Name

Eighth Floor Plan - Power and IT

Sheet Number

E-208

Project Status

CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-0911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER
ELISABETH HYDE

PROJECT #
17061.0

4/26/2018 10:32:09 AM

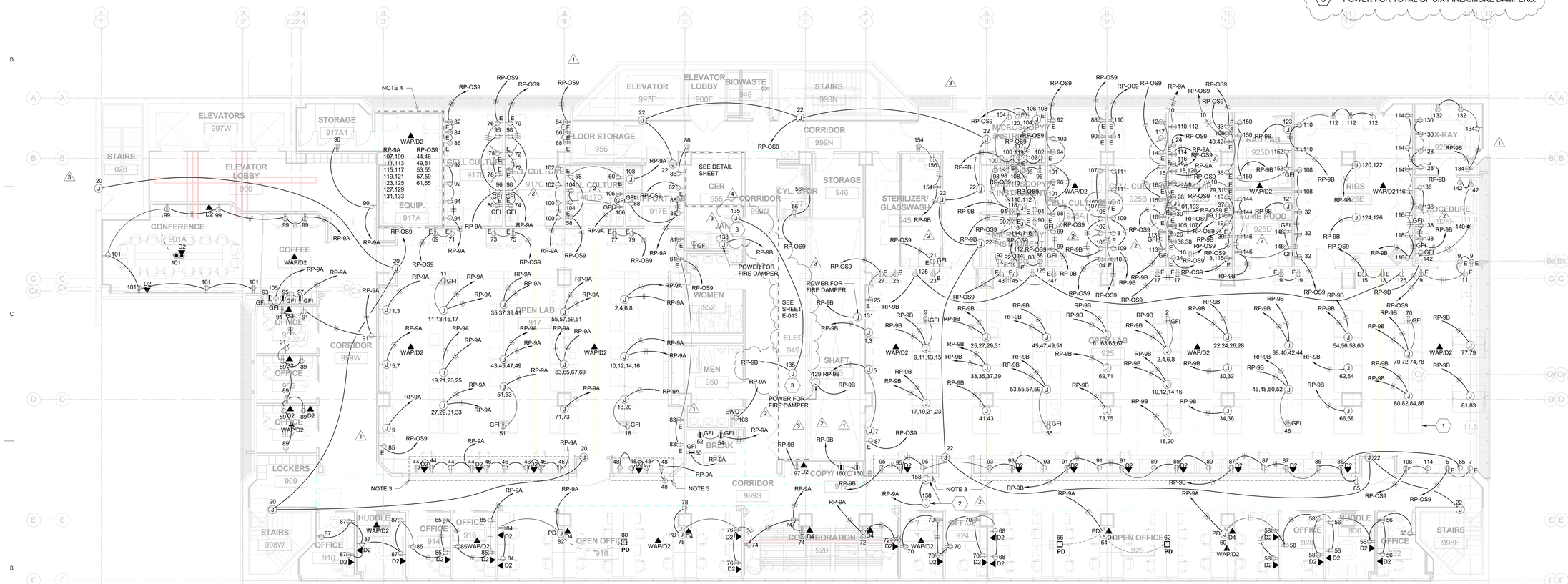
\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt

NOTES:

1. REFER TO LAB EQUIPMENT DRAWINGS FOR ADDITIONAL REQUIREMENTS OF LAB EQUIPMENT.
2. ALL OUTLETS IN LABS AND LAB SUPPORT ROOMS TO BE AT 42" AFF UNLESS OTHERWISE NOTED.
3. OUTLETS MOUNTED ALONG WINDOW WALL NEED TO BE MOUNTED BELOW WINDOW. COORDINATE EXACT MOUNTING HEIGHT WITH ARCHITECT.
4. ONLY CIRCUIT NUMBERS ARE SHOWN FOR CLARITY. REFER TO TYPICAL SMALL EQUIPMENT ROOM LAYOUT ON 8th FLOOR FOR RECEPTACLE AND CIRCUITING REQUIREMENTS.
5. SEE DETAIL ON SHEET E008 FOR PLUG LOAD CONTROL INFORMATION.

KEYED NOTES:

1. SEE DETAIL ON SHEET E-208.
2. POWER FOR EMERGENCY GAS VALVE AND ASSOCIATED SOLENOID.
3. POWER FOR TOTAL OF SIX FIRE/SMOKE DAMPERS.



1 9TH FLOOR PLAN - POWER AND IT
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	Addendum #1
2	2018-04-12	Addendum #2
3	2018-04-20	Addendum #3
4	2018-04-26	Addendum #4

Project Number 10062179
Original Issue 2017-11-22 -

ALABAMA ELISABETH HYDE NO. 17960 PROFESSIONAL ENGINEER M. ELISABETH HYDE 3-28-18

Sheet Name

Ninth Floor Plan - Power and IT

Sheet Number

E-209

Project Status

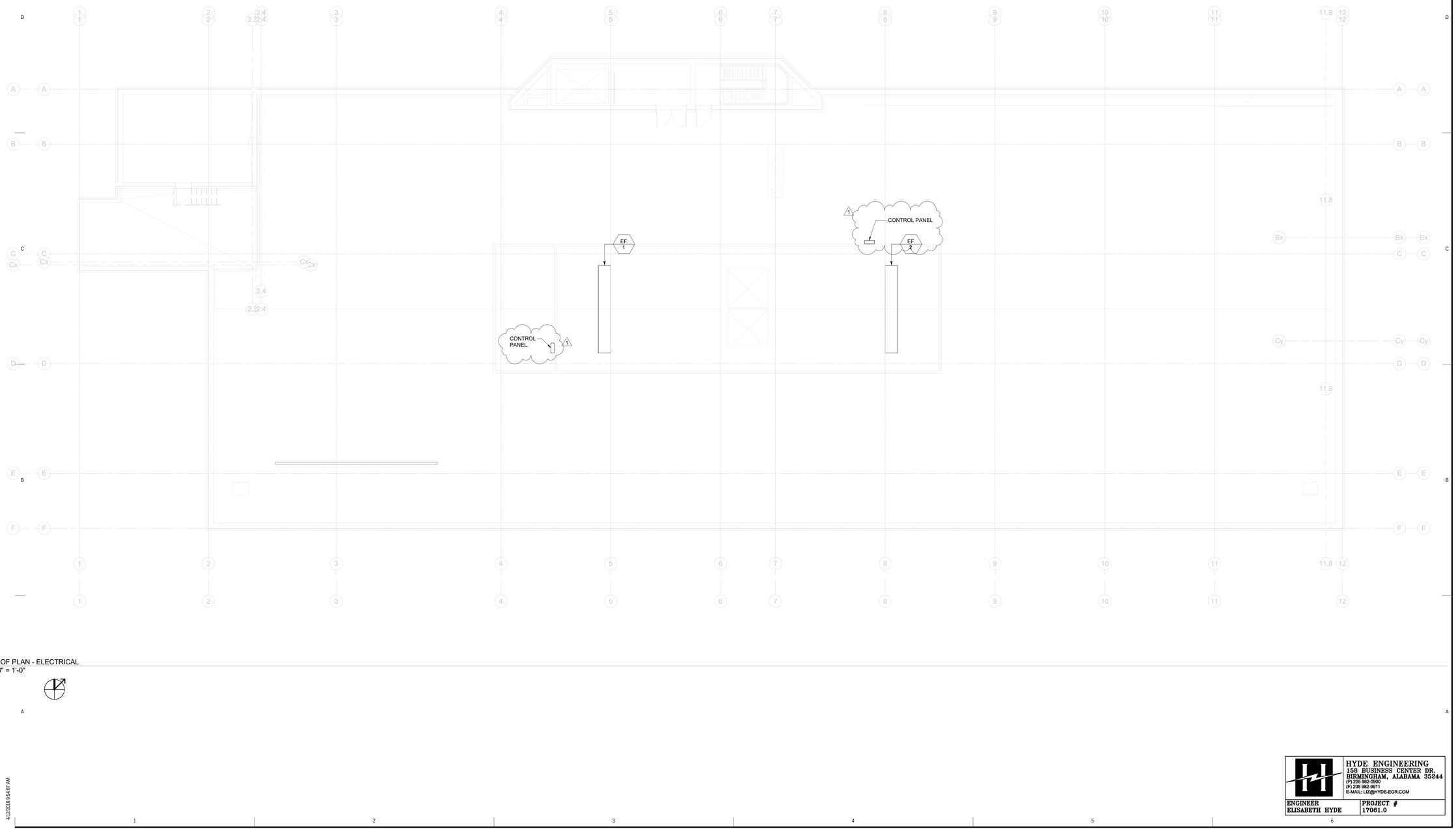
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER ELISABETH HYDE | PROJECT # 17061.0

4/26/2018 10:32:33 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt



1 ROOF PLAN - ELECTRICAL
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	Addendum #2

Project Number 10062179
Original Issue 2017-11-22 -

ALABAMA
ELISABETH HYDE
NO. 17960
PROFESSIONAL
ENGINEER
3-28-18

Sheet Name
Roof Plan - Electrical

Sheet Number
E-210

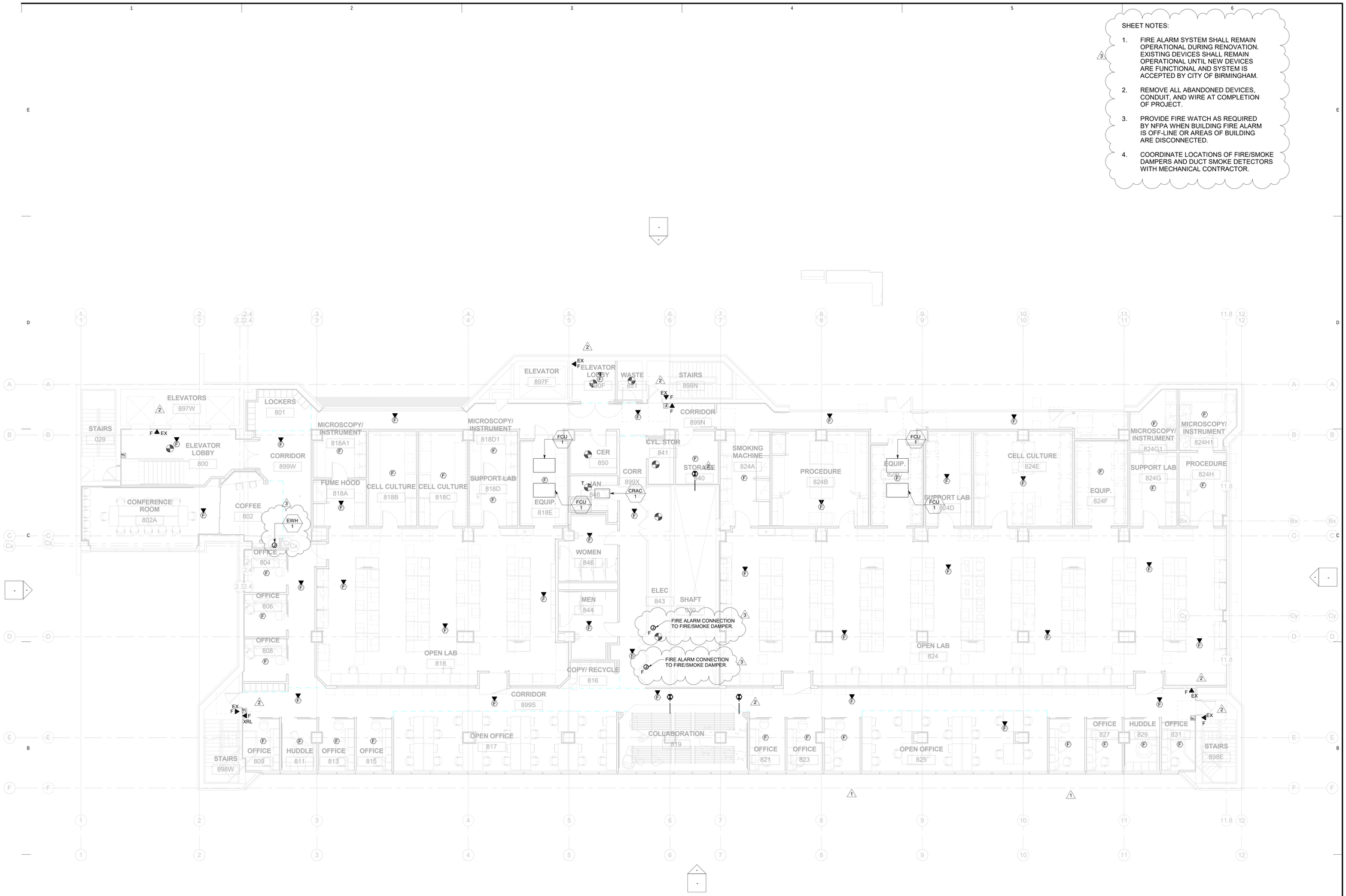
Project Status
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER ELISABETH HYDE
PROJECT # 17061.0

4/12/2018 9:54:07 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt



1 8TH FLOOR PLAN - HVAC AND FIRE ALARM
1/8" = 1'-0"

SHEET NOTES:

1. FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL DURING RENOVATION. EXISTING DEVICES SHALL REMAIN OPERATIONAL UNTIL NEW DEVICES ARE FUNCTIONAL AND SYSTEM IS ACCEPTED BY CITY OF BIRMINGHAM.
2. REMOVE ALL ABANDONED DEVICES, CONDUIT, AND WIRE AT COMPLETION OF PROJECT.
3. PROVIDE FIRE WATCH AS REQUIRED BY NFPA WHEN BUILDING FIRE ALARM IS OFF-LINE OR AREAS OF BUILDING ARE DISCONNECTED.
4. COORDINATE LOCATIONS OF FIRE/SMOKE DAMPERS AND DUCT SMOKE DETECTORS WITH MECHANICAL CONTRACTOR.

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-05	Addendum #1
2	2018-04-12	Addendum #2
3	2018-04-26	Addendum #4

Project Number 10062179
Original Issue 2017-11-22 -

ALABAMA ELISABETH HYDE NO. 17960 PROFESSIONAL ENGINEER 3-28-18

Sheet Name
Eighth Floor Plan - HVAC and Fire Alarm

Sheet Number
E-308

Project Status
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER ELISABETH HYDE
PROJECT # 17061.0

4/26/2018 3:50:27 PM

SHEET NOTES:

1. FIRE ALARM SYSTEM SHALL REMAIN OPERATIONAL DURING RENOVATION. EXISTING DEVICES SHALL REMAIN OPERATIONAL UNTIL NEW DEVICES ARE FUNCTIONAL AND SYSTEM IS ACCEPTED BY CITY OF BIRMINGHAM.
2. REMOVE ALL ABANDONED DEVICES, CONDUIT, AND WIRE AT COMPLETION OF PROJECT.
3. PROVIDE FIRE WATCH AS REQUIRED BY NFPA WHEN BUILDING FIRE ALARM IS OFF-LINE OR AREAS OF BUILDING ARE DISCONNECTED.
4. COORDINATE LOCATIONS OF FIRE/SMOKE DAMPERS AND DUCT SMOKE DETECTORS WITH MECHANICAL CONTRACTOR.



1 9TH FLOOR PLAN - HVAC AND FIRE ALARM
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOUCMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS
1	2018-04-12	Addendum #2
2	2018-04-26	Addendum #4

Project Number 10062179
Original Issue 2017-11-22 -

ALABAMA LICENSED PROFESSIONAL ENGINEER M. ELISABETH HYDE NO. 17960
3-28-18

Sheet Name
Ninth Floor Plan - HVAC and Fire Alarm

Sheet Number
E-309

Project Status
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM

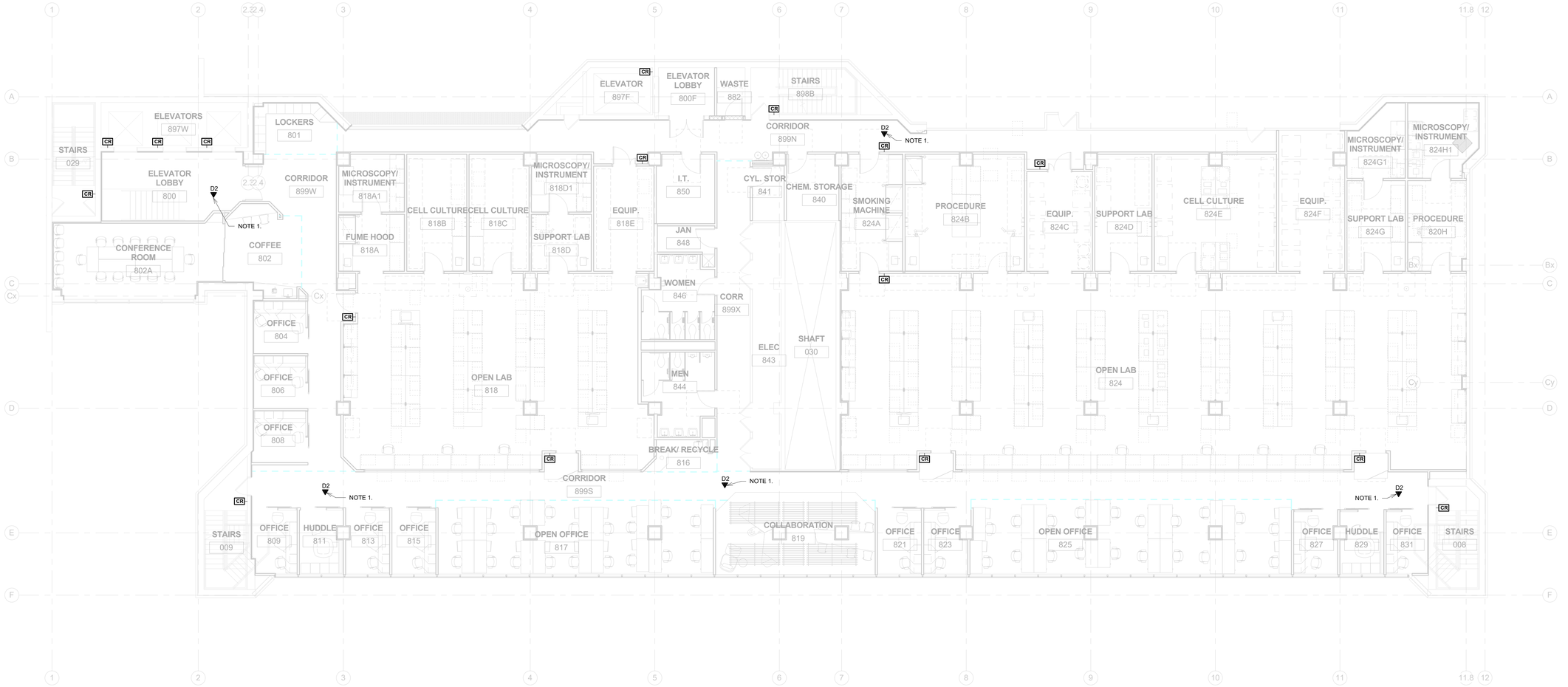
ENGINEER ELISABETH HYDE | PROJECT # 17061.0

4/26/2018 3:50:51 PM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt

NOTES:

1. IN CEILING FOR SECURITY CAMERA. COORDINATE EXACT CAMERA LOCATION WITH ARCHITECT/OWNER.



1 8TH FLOOR PLAN - SECURITY
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 02/21/18 -

ALABAMA LICENSED M. ELISABETH HYDE NO. 17960 PROFESSIONAL ENGINEER
3-28-18

Sheet Name

Eighth Floor Plan - Security

Sheet Number

E-408

Project Status

CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-0911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER
ELISABETH HYDE

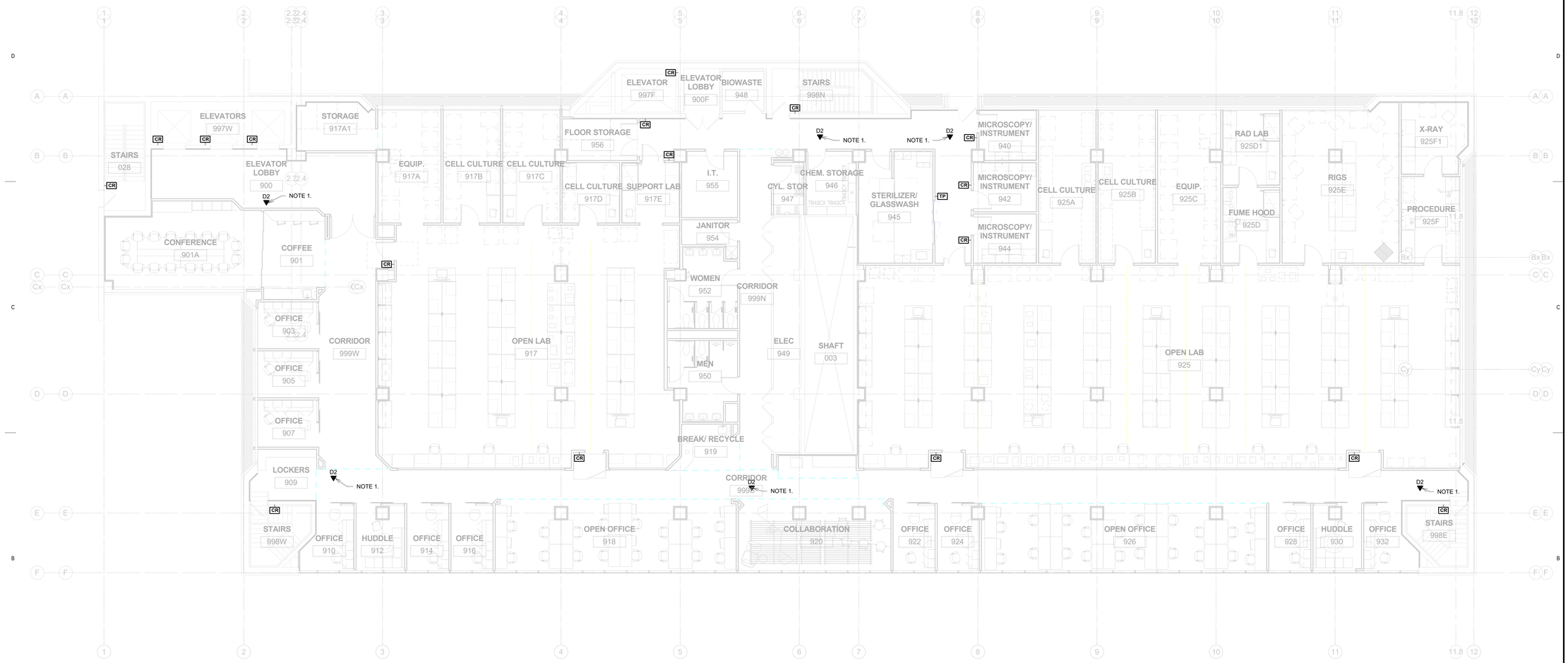
PROJECT #
17061.0

3/28/2018 10:15:57 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt

NOTES:

1. IN CEILING FOR SECURITY CAMERA. COORDINATE EXACT CAMERA LOCATION WITH ARCHITECT/OWNER.



1 9TH FLOOR PLAN - SECURITY
1/8" = 1'-0"

HDR Architecture
1100 Peachtree Street, NE, Suite 400
Atlanta, GA 30309

HYDE engineering

THE UNIVERSITY OF ALABAMA AT BIRMINGHAM

Phase 1 Renovations to McCallum Basic Health Science Building

1918 University Blvd
Birmingham, AL 35233

MARK	DATE	DESCRIPTION
	2017-10-06	SCHEMATIC DESIGN
	2017-11-22	PRELIMINARY DESIGN
	2018-02-02	90% CONSTRUCTION DOCUMENTS
	2018-03-01	90% CONSTRUCTION DOCUMENTS - REV
	2018-03-28	CONSTRUCTION DOCUMENTS

Project Number 10062179
Original Issue 02/21/18 -

ALABAMA
ELISABETH HYDE
NO. 17960
PROFESSIONAL
ENGINEER
ELISABETH HYDE
3-28-18

Sheet Name
Ninth Floor Plan - Security

Sheet Number
E-409

Project Status
CONSTRUCTION DOCUMENTS

HYDE ENGINEERING
158 BUSINESS CENTER DR.
BIRMINGHAM, ALABAMA 35244
(P) 205 982-0900
(F) 205 982-9911
E-MAIL: LIZ@HYDE-EGR.COM

ENGINEER	PROJECT #
ELISABETH HYDE	17061.0

3/20/2018 10:52:18 AM

\\Fileserver\STORAGE\001_PROJECTS\Revit Working\UAB McCallum\Models\Electrical\10062179-A-NEW-ELECTRICAL.rvt