

# UNIVERSITY OF CALIFORNIA, SANTA BARBARA

## PHELPS HALL ECM

### BUILDING 560

### FM130470

LOCATION MAP



UCSB SITE MAP

PROJECT ADDRESS:  
 FACILITIES MANAGEMENT  
 BUILDING NO. 439  
 SANTA BARBARA, CA 93106

INDEX OF DRAWINGS

DWG NO.	DESCRIPTION
T1	LOCATION MAP, INDEX OF DRAWINGS, GENERAL NOTES, AND APPLICABLE CODES
<b>MECHANICAL</b>	
M1	FIRST FLOOR PLAN
M2	FIRST FLOOR PLAN
M3	FIRST FLOOR PLAN
M4	SECOND AND THIRD FLOOR PLANS

GENERAL NOTES

- IN BRIEF, THIS PROJECT INVOLVES THE REPLACEMENT OF NUMEROUS EXISTING PNEUMATIC THERMOSTATS WITH NEW, BACNET COMPATIBLE, WIRELESS PNEUMATIC THERMOSTATS (WPTs), FOR REMOTE CONTROL AND MONITORING. THE INSTALLATION OF THE WPTs PROVIDE FOR EFFECTIVE CONTROL STRATEGIES AND ENERGY CONSERVATION MEASURES (ECMs). THE SYSTEM ARCHITECTURE INVOLVES THE USE OF COMMUNICATION GATEWAYS AND WIRELESS REPEATERS TO COMMUNICATE BETWEEN THE WPTs AND THE REMOTE CONTROL CENTER.
- ALL WORK SHALL CONFORM TO THE REQUIREMENTS OF THE CALIFORNIA ADMINISTRATIVE CODES, CALIFORNIA BUILDING STANDARD CODES, NFPA STANDARDS, LOCAL CODES, AND REQUIREMENTS SPECIFIED HEREIN. WHERE A CONFLICT BETWEEN CODES AND/OR STANDARDS OCCUR, THE MOST STRINGENT REQUIREMENTS SHALL PREVAIL.
- THE CONTRACTOR SHALL VISIT THE JOB SITE PRIOR TO BID IN ORDER TO THOROUGHLY FAMILIARIZE THEMSELVES WITH THE EXISTING FIELD CONDITIONS AND SCOPE OF WORK TO BE PERFORMED. THE CONTRACTOR SHALL ALSO VERIFY ALL DIMENSIONS OF THE EXISTING FACILITIES AND EQUIPMENT PERTINENT TO THE SCOPE OF WORK TO THIS PROJECT PRIOR TO BID.
- THE CONTRACTOR SHALL PROVIDE AND BE RESPONSIBLE FOR PROTECTION AND REPAIR OF ADJACENT EXISTING SURFACES, DUCT, AREAS, PIPING, CONDUIT, AND EQUIPMENT WHICH MAY BE DAMAGED AS A RESULT OF DEMOLITION AND/OR NEW WORK. THE CONTRACTOR SHALL NOT DEMOLISH OR ALTER ANY WORK WHICH IS NOT A PART OF THIS CONTRACT WITHOUT WRITTEN PERMISSION FROM THE UNIVERSITY.
- CONTRACTOR SHALL PROVIDE CSFM APPROVED FIRE SEAL FOR PIPE AND CONDUIT AT FIRE RATED PENETRATIONS.
- CONTRACTOR SHALL PATCH, SEAL AND PAINT TO MATCH EXISTING ANY DEMOLITION TO EXISTING WALLS AND CEILINGS REQUIRED TO FACILITATE CONSTRUCTION.

APPLICABLE CODES

- 2010 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24 C.C.R. (BASED ON 2009 INTERNATIONAL BUILDING CODE)
- 2010 CALIFORNIA ELECTRIC CODE, PART 3, TITLE 24 C.C.R.
- 2010 CALIFORNIA MECHANICAL CODE, PART 4, TITLE 24 C.C.R.
- 2010 CALIFORNIA PLUMBING CODE, PART 5, TITLE 24 C.C.R.
- 2010 CALIFORNIA ENERGY CODE, PART 6, TITLE 24 C.C.R.
- 2010 CALIFORNIA FIRE CODE, PART 9, TITLE 24 C.C.R. (BASED ON 2009 INTERNATIONAL FIRE CODE)
- NATIONAL FIRE PROTECTION ASSOCIATION (NFPA)

SCHEMATIC DESIGN  
NOT FOR CONSTRUCTION

**GOSS ENGINEERING, INC.**  
 CORONA, CALIFORNIA PH: (951) 340-1977 FX: (951) 340-1090

LINE IS 2 INCHES  
 AT FULL SCALE  
 (IF NOT 2"=SCALE ACCORDINGLY)  
 FILE NO.: 113-04-01.4

DRAWN BY: AEP  
 DESIGNED BY: JDA  
 CHECKED BY: NDU  
 CHECKED BY: LBH

SUBMITTED \_\_\_\_\_ DATE \_\_\_\_\_  
 PROJECT MANAGER \_\_\_\_\_  
 APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

UNIVERSITY OF CALIFORNIA,  
 SANTA BARBARA

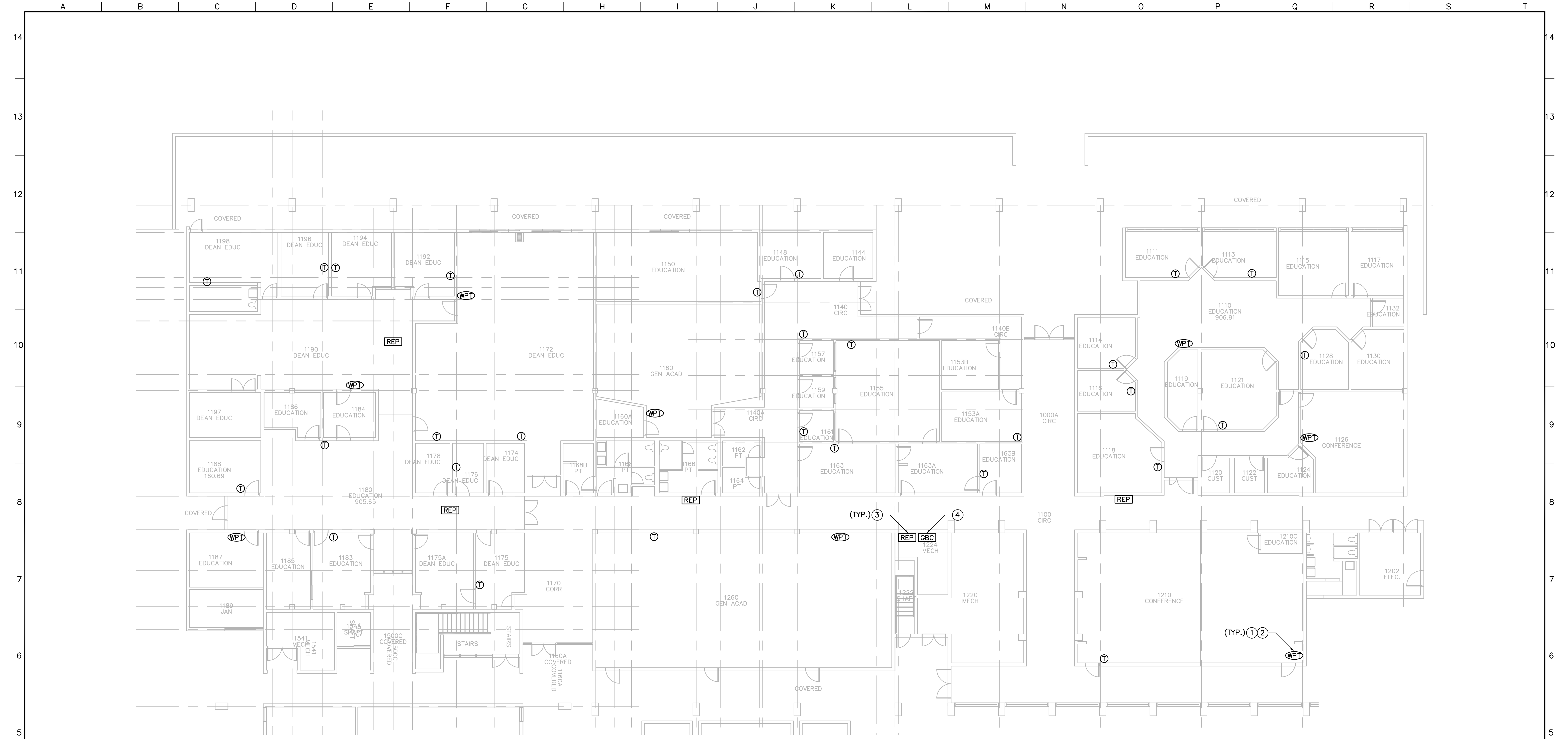
BUILDING ECM SCHEMATIC DESIGN  
 PHELPS HALL 560 FM130470

LOCATION MAP, INDEX OF  
 DRAWINGS, GENERAL NOTES, AND  
 APPLICABLE CODES

DATE  
6/17/13

DRAWING NUMBER  
**T1**

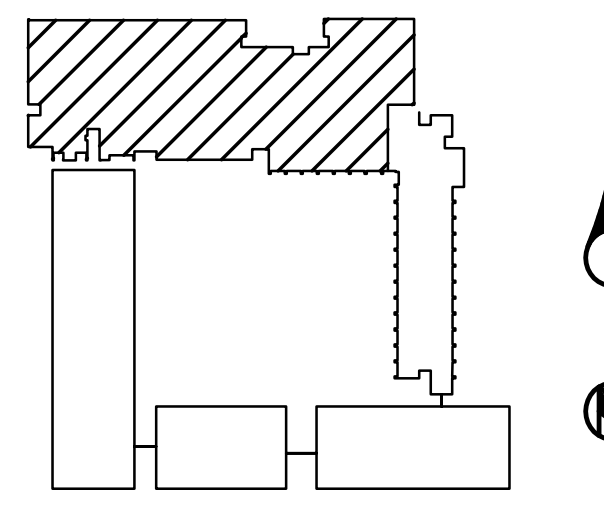
SHEET NUMBER  
of



**FIRST FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

- SHEET NOTES:**
- ① DEMOLISH EXISTING PNEUMATIC THERMOSTAT AND INSTALL WIRELESS PNEUMATIC THERMOSTAT.
  - ② PATCH AND REPAIR ROOM FINISH AS NECESSARY AFTER INSTALLATION. PAINT SHALL MATCH EXISTING WALL COLOR.
  - ③ PROVIDE WPT WIRELESS REPEATER ABOVE THE CEILING. PROVIDE 120V POWER FROM NEAREST ELECTRICAL CIRCUIT TO WIRELESS REPEATER.
  - ④ PROVIDE WALL MOUNTED COMMUNICATION GATEWAY. PROVIDE 120V POWER FROM NEAREST ELECTRICAL CIRCUIT TO COMMUNICATION GATEWAY.

- LEGEND:**
- Ⓢ EXISTING PNEUMATIC THERMOSTAT TO BE PROTECTED IN PLACE
  - Ⓢ WPT WIRELESS PNEUMATIC THERMOSTAT
  - Ⓢ REP WIRELESS REPEATER
  - Ⓢ GBC GREEN BOX CONTROLLER FLEXIBLE COMMUNICATION GATEWAY



KEY PLAN  
SCHEMATIC DESIGN  
NOT FOR CONSTRUCTION

**GOSS ENGINEERING, INC.**  
CORONA, CALIFORNIA PH: (951) 340-1977 FX: (951) 340-1090

LINE IS 2 INCHES AT FULL SCALE (IF NOT 2"=SCALE ACCORDINGLY)  
FILE NO.: 113-04-01.4

DRAWN BY: AEP  
DESIGNED BY: JDA  
CHECKED BY: NDU  
CHECKED BY: LBH

SUBMITTED \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

UNIVERSITY OF CALIFORNIA,  
SANTA BARBARA

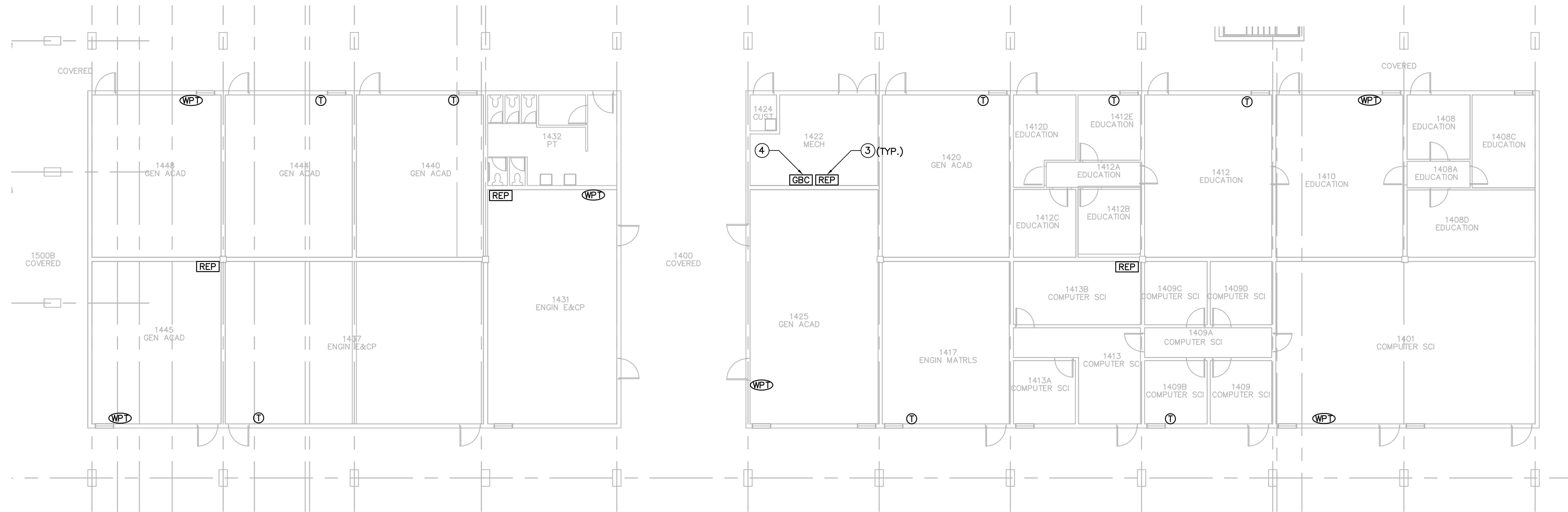
BUILDING ECM SCHEMATIC DESIGN  
PHELPS HALL 560 FM130470

DATE  
6/17/13

DRAWING NUMBER  
**M1**

SHEET NUMBER  
of

FIRST FLOOR PLAN



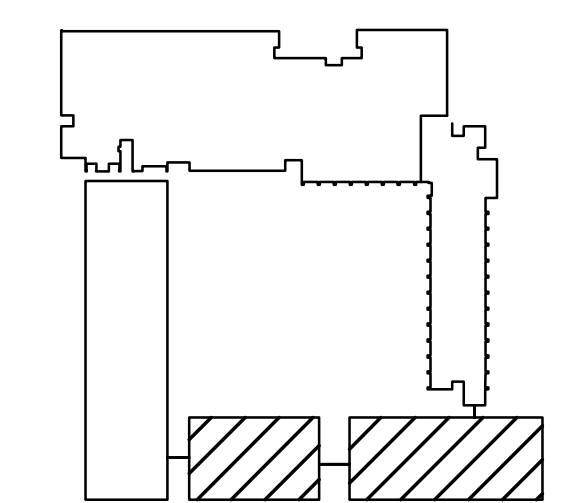
**FIRST FLOOR PLAN**  
SCALE: 1/8"=1'-0"

**SHEET NOTES:**

- ① DEMOLISH EXISTING PNEUMATIC THERMOSTAT AND INSTALL WIRELESS PNEUMATIC THERMOSTAT.
- ② PATCH AND REPAIR ROOM FINISH AS NECESSARY AFTER INSTALLATION. PAINT SHALL MATCH EXISTING WALL COLOR.
- ③ PROVIDE WPT WIRELESS REPEATER ABOVE THE CEILING. PROVIDE 120V POWER FROM NEAREST ELECTRICAL CIRCUIT TO WIRELESS REPEATER.
- ④ PROVIDE WALL MOUNTED COMMUNICATION GATEWAY. PROVIDE 120V POWER FROM NEAREST ELECTRICAL CIRCUIT TO COMMUNICATION GATEWAY.

**LEGEND:**

- ① EXISTING PNEUMATIC THERMOSTAT TO BE PROTECTED IN PLACE
- WPT WIRELESS PNEUMATIC THERMOSTAT
- REP WIRELESS REPEATER
- GBC GREEN BOX CONTROLLER FLEXIBLE COMMUNICATION GATEWAY



KEY PLAN  
SCHEMATIC DESIGN  
NOT FOR CONSTRUCTION

**GOSS ENGINEERING, INC.**  
CORONA, CALIFORNIA PH: (951) 340-1977 FX: (951) 340-1090  
SUBMITTED \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

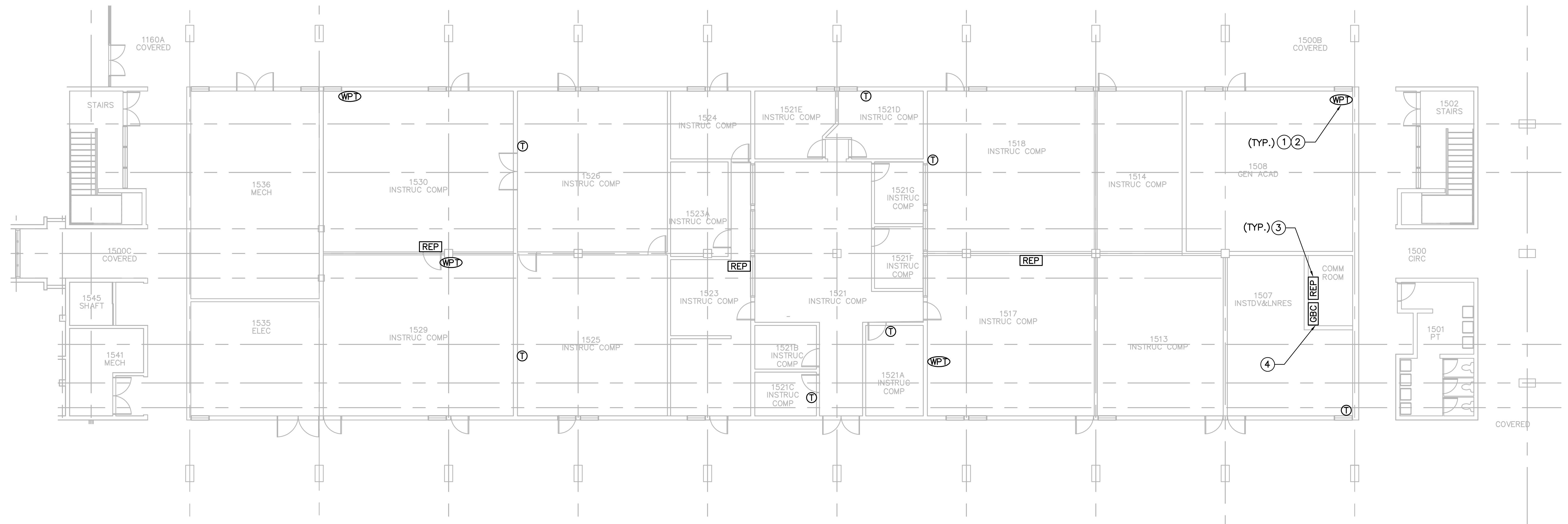
LINE IS 2 INCHES  
AT FULL SCALE  
(IF NOT 2"=SCALE ACCORDINGLY)  
FILE NO.: 113-04-01.4  
DRAWN BY: AEP  
DESIGNED BY: JDA  
CHECKED BY: NDU  
CHECKED BY: LBH

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

UNIVERSITY OF CALIFORNIA,  
SANTA BARBARA  
BUILDING ECM SCHEMATIC DESIGN  
PHELPS HALL 560 FM130470

FIRST FLOOR PLAN

DATE  
6/17/13  
DRAWING NUMBER  
**M2**  
SHEET NUMBER  
OF



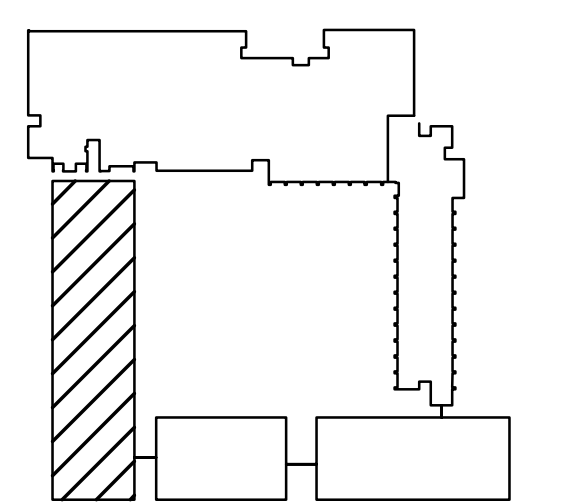
**FIRST FLOOR PLAN**  
SCALE: 1/8"=1'-0"

**SHEET NOTES:**

- ① DEMOLISH EXISTING PNEUMATIC THERMOSTAT AND INSTALL WIRELESS PNEUMATIC THERMOSTAT.
- ② PATCH AND REPAIR ROOM FINISH AS NECESSARY AFTER INSTALLATION. PAINT SHALL MATCH EXISTING WALL COLOR.
- ③ PROVIDE WPT WIRELESS REPEATER ABOVE THE CEILING. PROVIDE 120V POWER FROM NEAREST ELECTRICAL CIRCUIT TO WIRELESS REPEATER.
- ④ PROVIDE WALL MOUNTED COMMUNICATION GATEWAY. PROVIDE 120V POWER FROM NEAREST ELECTRICAL CIRCUIT TO COMMUNICATION GATEWAY.

**LEGEND:**

- ① EXISTING PNEUMATIC THERMOSTAT TO BE PROTECTED IN PLACE
- WPT WIRELESS PNEUMATIC THERMOSTAT
- REP WIRELESS REPEATER
- GBC GREEN BOX CONTROLLER FLEXIBLE COMMUNICATION GATEWAY



**KEY PLAN**  
**SCHEMATIC DESIGN**  
**NOT FOR CONSTRUCTION**

**GOSS ENGINEERING, INC.**  
CORONA, CALIFORNIA PH: (951) 340-1977 FX: (951) 340-1090  
SUBMITTED \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

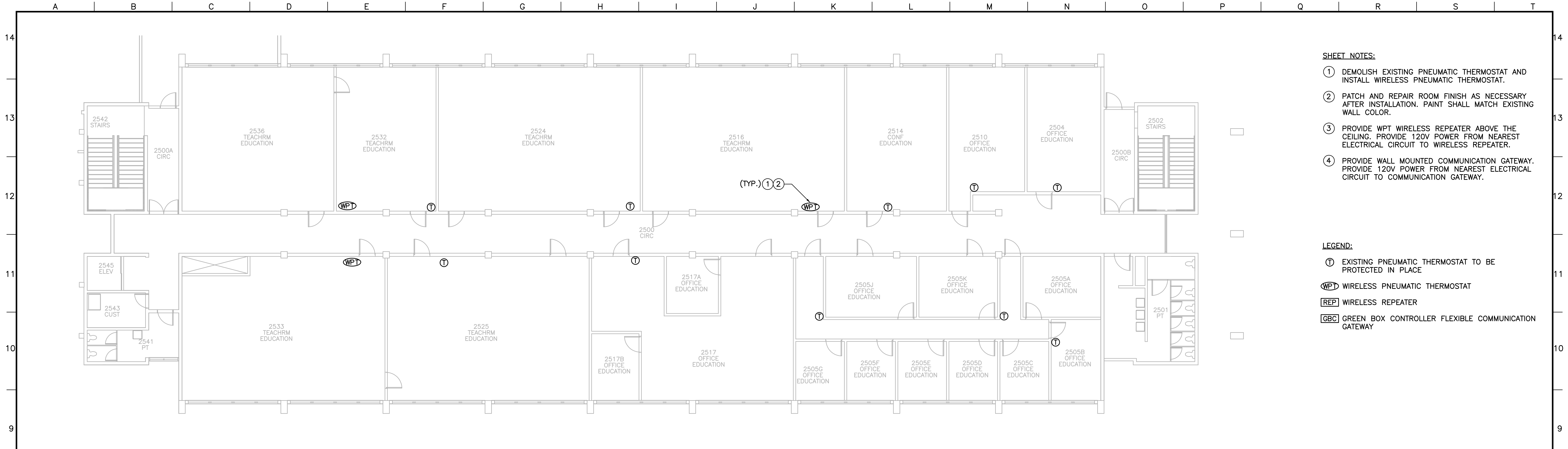
LINE IS 2 INCHES  
AT FULL SCALE  
(IF NOT 2"-SCALE ACCORDINGLY)  
FILE NO.: 113-04-01.4  
DRAWN BY: AEP  
DESIGNED BY: JDA  
CHECKED BY: NDU  
CHECKED BY: LBH

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

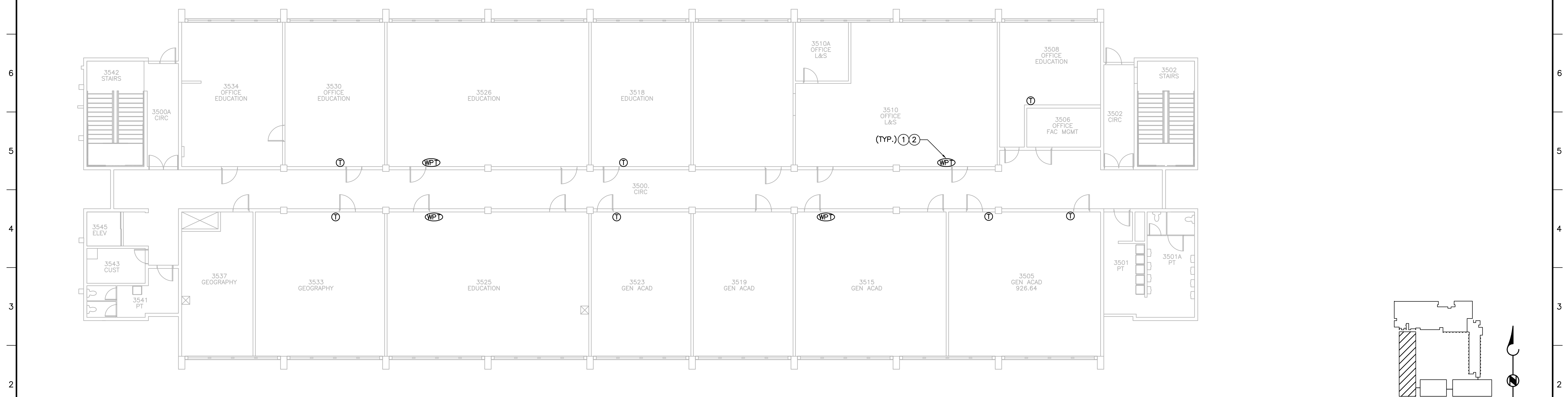
UNIVERSITY OF CALIFORNIA,  
SANTA BARBARA  
BUILDING ECM SCHEMATIC DESIGN  
PHELPS HALL 560 FM130470

FIRST FLOOR PLAN

DATE  
6/17/13  
DRAWING NUMBER  
**M3**  
SHEET NUMBER  
OF



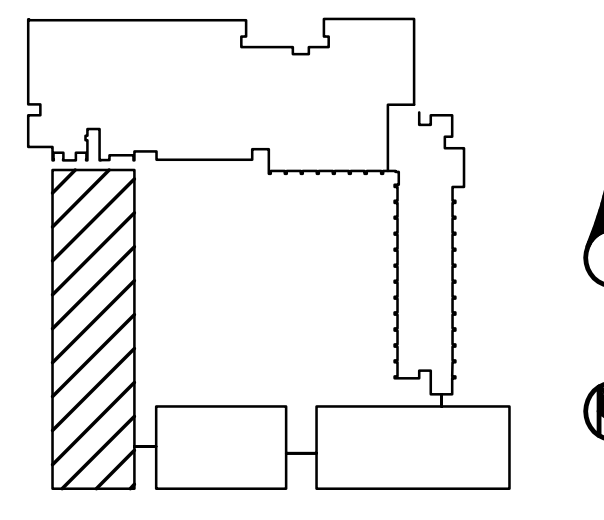
**SECOND FLOOR PLAN**  
SCALE: 1/8" = 1'-0"



**THIRD FLOOR PLAN**  
SCALE: 1/8" = 1'-0"

- SHEET NOTES:**
- 1 DEMOLISH EXISTING PNEUMATIC THERMOSTAT AND INSTALL WIRELESS PNEUMATIC THERMOSTAT.
  - 2 PATCH AND REPAIR ROOM FINISH AS NECESSARY AFTER INSTALLATION. PAINT SHALL MATCH EXISTING WALL COLOR.
  - 3 PROVIDE WPT WIRELESS REPEATER ABOVE THE CEILING. PROVIDE 120V POWER FROM NEAREST ELECTRICAL CIRCUIT TO WIRELESS REPEATER.
  - 4 PROVIDE WALL MOUNTED COMMUNICATION GATEWAY. PROVIDE 120V POWER FROM NEAREST ELECTRICAL CIRCUIT TO COMMUNICATION GATEWAY.

- LEGEND:**
- Ⓜ EXISTING PNEUMATIC THERMOSTAT TO BE PROTECTED IN PLACE
  - Ⓜ WPT WIRELESS PNEUMATIC THERMOSTAT
  - Ⓜ REP WIRELESS REPEATER
  - Ⓜ GBC GREEN BOX CONTROLLER FLEXIBLE COMMUNICATION GATEWAY



SCHMATIC DESIGN  
NOT FOR CONSTRUCTION

**GOSS ENGINEERING, INC.**  
CORONA, CALIFORNIA PH: (951) 340-1977 FX: (951) 340-1090

SUBMITTED \_\_\_\_\_ DATE \_\_\_\_\_  
APPROVED \_\_\_\_\_ DATE \_\_\_\_\_

LINE IS 2 INCHES  
AT FULL SCALE  
(IF NOT 2"=SCALE ACCORDINGLY)

FILE NO.: 113-04-01.4

DRAWN BY: AEP  
DESIGNED BY: JDA  
CHECKED BY: NDU  
CHECKED BY: LBH

REVISIONS					
ZONE	REV.	DESCRIPTION	BY	DATE	APP.

UNIVERSITY OF CALIFORNIA,  
SANTA BARBARA

BUILDING ECM SCHEMATIC DESIGN  
PHELPS HALL 560 FM130470

SECOND AND THIRD FLOOR PLANS

DATE  
6/17/13

DRAWING NUMBER  
**M4**

SHEET NUMBER  
OF