

GENERAL NOTES

1. EVERYTHING IS EXISTING UNLESS OTHERWISE NOTED.
2. G.C. TO VERIFY ALL DIMENSIONS IN FIELD AND COORDINATE ALL WORK. NOTIFY ARCHITECT OF ANY DISCREPANCIES PRIOR TO COMMENCEMENT OF WORK.
3. SEE MECH., PLUMB. & ELEC. DWGS FOR ADDITIONAL DEMOLITION INFO
4. SEE A1.1 FOR FIRE ACCESS & FIRE NOTES

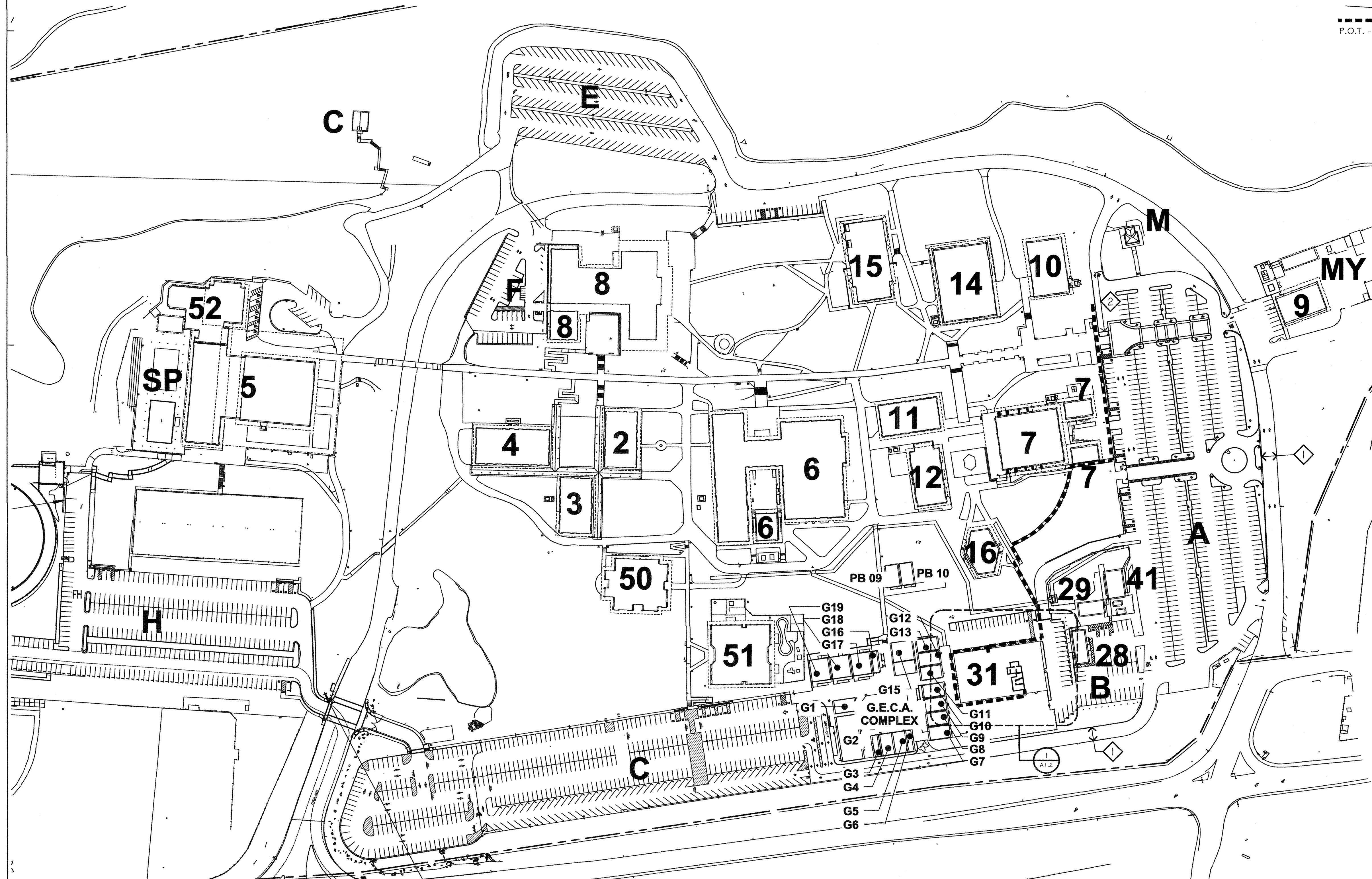
KEYED NOTES

- ◇ CAMPUS ROAD
- ◇ BUS ONLY DROP OFF

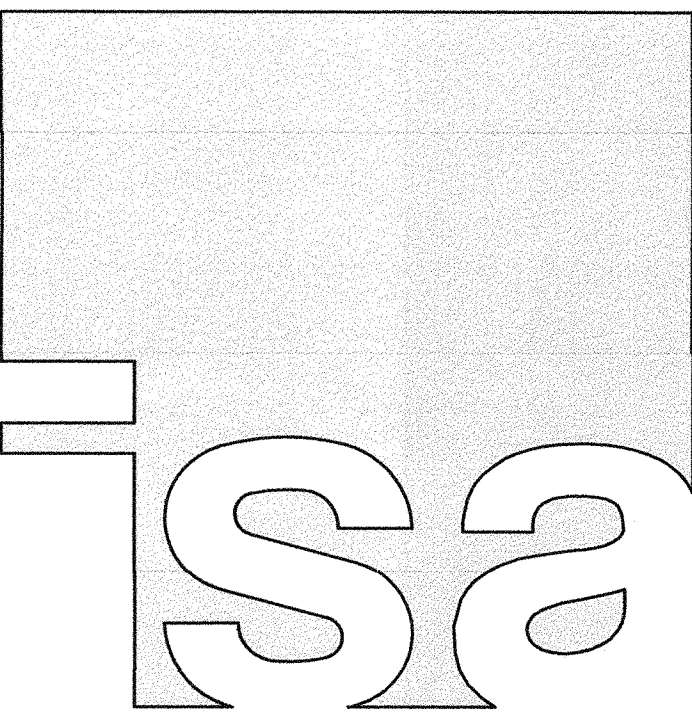
LEGEND

----- P.O.T. - CONC. OR A.C. PAVING

----- PATH OF TRAVEL (P.O.T.), AS INDICATED, IS A COMMON BARRIER FREE ACCESS ROUTE WITHOUT ANY ABRUPT VERTICAL CHANGES EXCEEDING 1/4" BEVELED AT 1:2 MAX. SLOPE, EXCEPT THAT LEVEL CHANGES DO NOT EXCEED 1/4" VERTICAL AND IS AT LEAST 48" WIDE. THE PATH SURFACE IS SLIP RESISTANT, STABLE, FIRM AND SMOOTH. PASSING SPACES (11B-403.5.3) AT LEAST 60" X 60" ARE LOCATED NOT MORE THAN 200' APART. PARTS OF P.O.T. WITH CONTINUOUS GRADIENTS HAVE 60' LEVEL AREAS (11B-403.7) NOT MORE THAN 400' APART. THE CROSS-SLOPE DOES NOT EXCEED 2% AND SLOPE IN THE DIRECTION OF TRAVEL AND IS LESS THAN 5% U.O.N. P.O.T. SHALL BE MAINTAINED FREE OF OVERHANGING OBSTRUCTIONS TO 80" MIN. (11B-307) AND PROTRUDING OBJECTS GREATER THAN 4" PROJECTION FROM WALL & ABOVE 27" AND LESS THAN 80" (11B-307.4)



1 SITE PLAN
 SCALE: 1" = 100'-0"
 100 0 100 200 FEET



IN STUDIO ARCHITECTURE
 250 MAIN STREET
 SALINAS, CA 93901
 831.320.2655

DATES _____

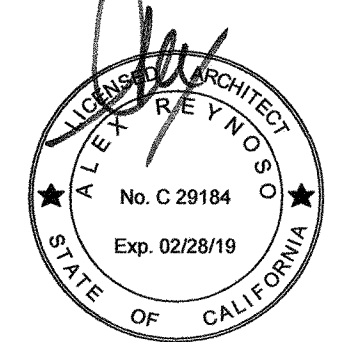
IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT

APPLICATION NUMBER
01-117638

AC: [Signature] FL: [Signature] SS: [Signature]

DATE: 09-06-2018

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CLIENT
 GAVILAN JOINT
 COMMUNITY
 COLLEGE DISTRICT



PROJECT
 HVAC
 CLASSROOM

5055 SANTA TERESA BLVD.
 GILROY, CA 95020

SHEET
 SITE PLAN

PROJECT NUMBER: 1817
 ISSUED: JUNE 28, 2018
 DRAWN BY:
 CHECKED BY:
 FILENAME:

A1.1


GENERAL NOTES

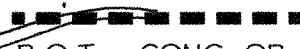
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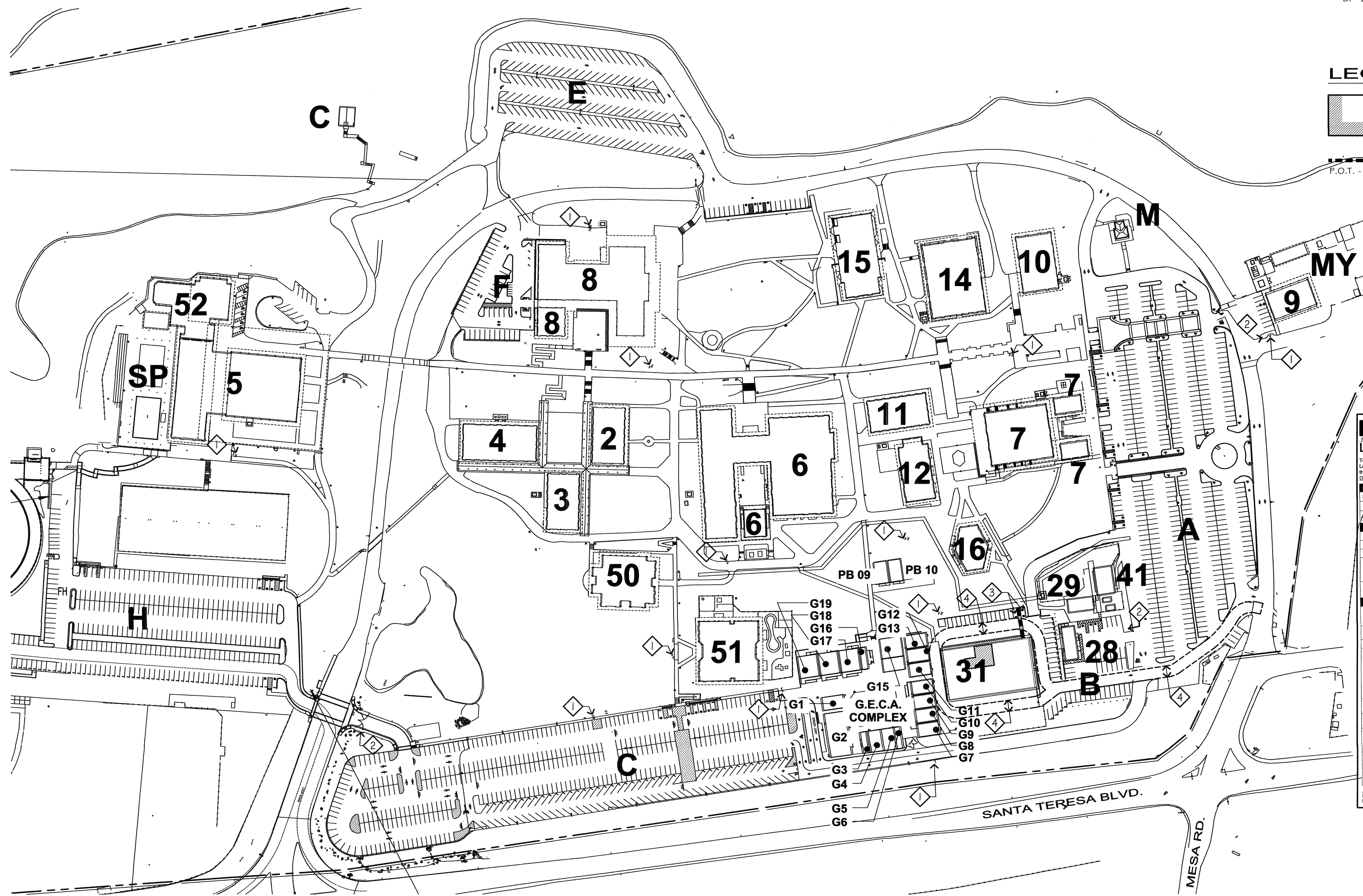
- 1 FIRE HYDRANT
- 2 (E) TOW AWAY SIGNAGE
- 3 ACCESSIBLE PARKING SEE
- 4 FIRE DEPARTMENT ACCESS, 20'-0" CLR.
- 5 ACCESSIBLE RESTROOMS / DRINKING FOUNTAIN
 - A. RESTROOMS D5A# 01-108364
 - B. DRINKING FOUNTAIN D5A# 01-108364

LEGEND

 BUILDING SCOPE OF WORK

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1 SITE PLAN
SCALE: 1" = 100'-0"
100 0 100 200 FEET

DSA 810
LOCAL FIRE AUTHORITY REVIEW

To facilitate the Division of the State Architect's (DSA) approval of the FireLife Safety portion of a project, DSA requires Local Fire Authority (LFA) review of certain elements as identified in this form. Use of this form is mandatory for projects that add square footage to a campus or if any item on this form is relevant to the project. For additional information, see DSA 810 Instructions and DSA Policy 09-01.

PROJECT INFORMATION

School District/Owner: GAVILAN COLLEGE
Project Name/School: RENOVATION OF HVAC CLASSROOM @ BUILDING 31
Project Address: 5055 SANTA TERESA BLVD., GILROY CA 95020

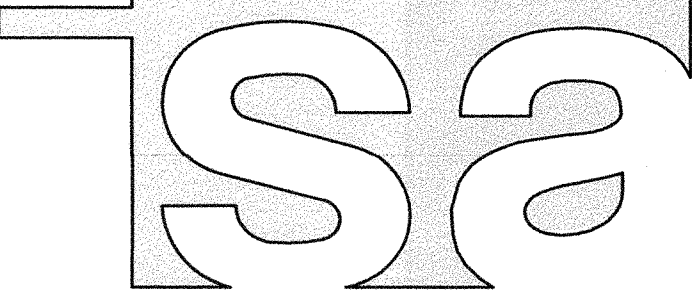
LOCAL FIRE AUTHORITY (LFA)

LFA Agency Name: SANTA CLARA COUNTY FIRE MARSHAL'S OFFICE
LFA Reviewer Name: DOB CAMPBELL Title: Sr. Fire Dept. Engr.
Work Email: DOB.CAMPBELL@SCCFD.CA.GOV Work Telephone Number: 408-249-5767
I have reviewed and responded to the applicable items for this project as listed below.
Note: Only sign this form when it is completed only the signature of those form is not acceptable to DSA.
LFA Reviewer's Signature: DOB CAMPBELL Date: 6/28/18

Review Key: "Y" = Complies with LFA requirements "N" = Not approved (complete Section 8)
"NA" = Not applicable to the project "NR" = LFA elects not to review

Description	Y	N	NA	NR
1 Where an alternate does not meet medical emergency service code, per the California Building Code (CBC), use of stairways for emergency rescue and patient transport is acceptable.				X
2 Access roads, fire lane markings, pavers and gate entrances are in accordance with Title 19, California Code of Regulations and the California Fire Code, Chapter 5.				X
3 Fire hydrant location and distribution complies with the California Fire Code (or see #4).				X
4 Fire hydrant location and distribution complies with NFPA 1142, "Alternate Means." If "NR" is checked, DSA can only approve on-site water storage as an alternate. The signature of the school district official is required to acknowledge the use of alternate means.				X
Signature of School District Official: _____ Date: _____				
Print the School District Official's Name: _____				
5 The location(s) of the proposed dead indicator valve and fire department connection meet the requirements of this jurisdiction.				X
6 The location(s) of the detector check valve assembly meet the requirements of this jurisdiction.				X
7 Is the project located in a hazard severity zone area? (CBC, Chapter 7A, Section 701A.) Yes <input type="checkbox"/> No <input checked="" type="checkbox"/>				
8 Check type if "Yes": <input type="checkbox"/> Moderate <input checked="" type="checkbox"/> High <input type="checkbox"/> Very High <input type="checkbox"/> WIFA (If one of these boxes is checked, the project design must meet the requirements of Chapter 7A.)				
COMMENTS (note deficiencies):				

DSA 810 (Rev 01-24-18) Page 1 of 1
DIVISION OF THE STATE ARCHITECT DEPARTMENT OF GENERAL SERVICES STATE OF CALIFORNIA



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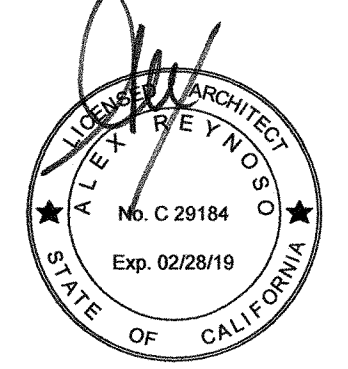
DATES _____

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01-117638
APPLICATION NUMBER

ACQ# FL 30/18/18
DATE 09-06-2018

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CLIENT
GAVILAN JOINT
COMMUNITY
COLLEGE DISTRICT



**GAVILAN
COLLEGE**

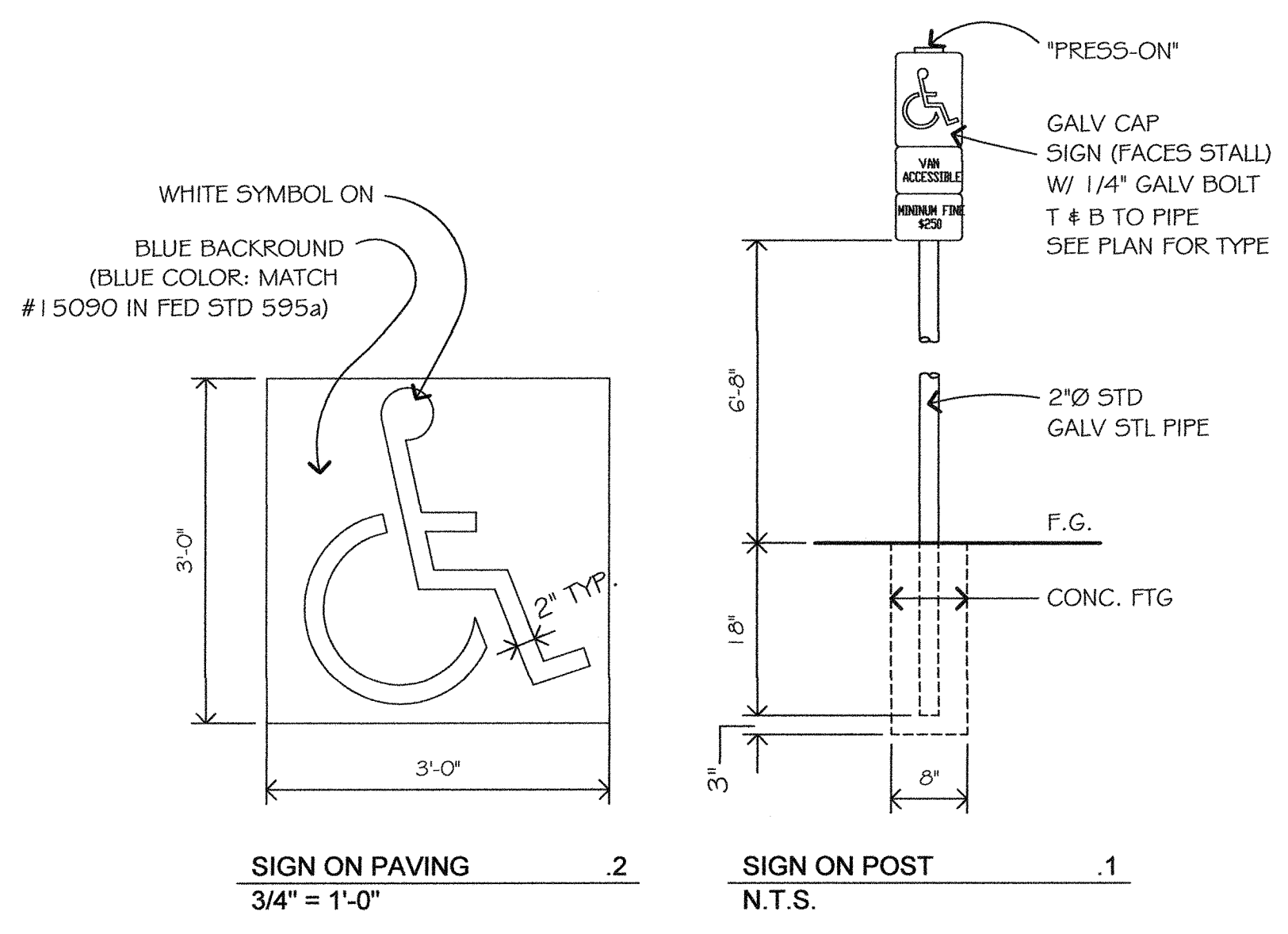
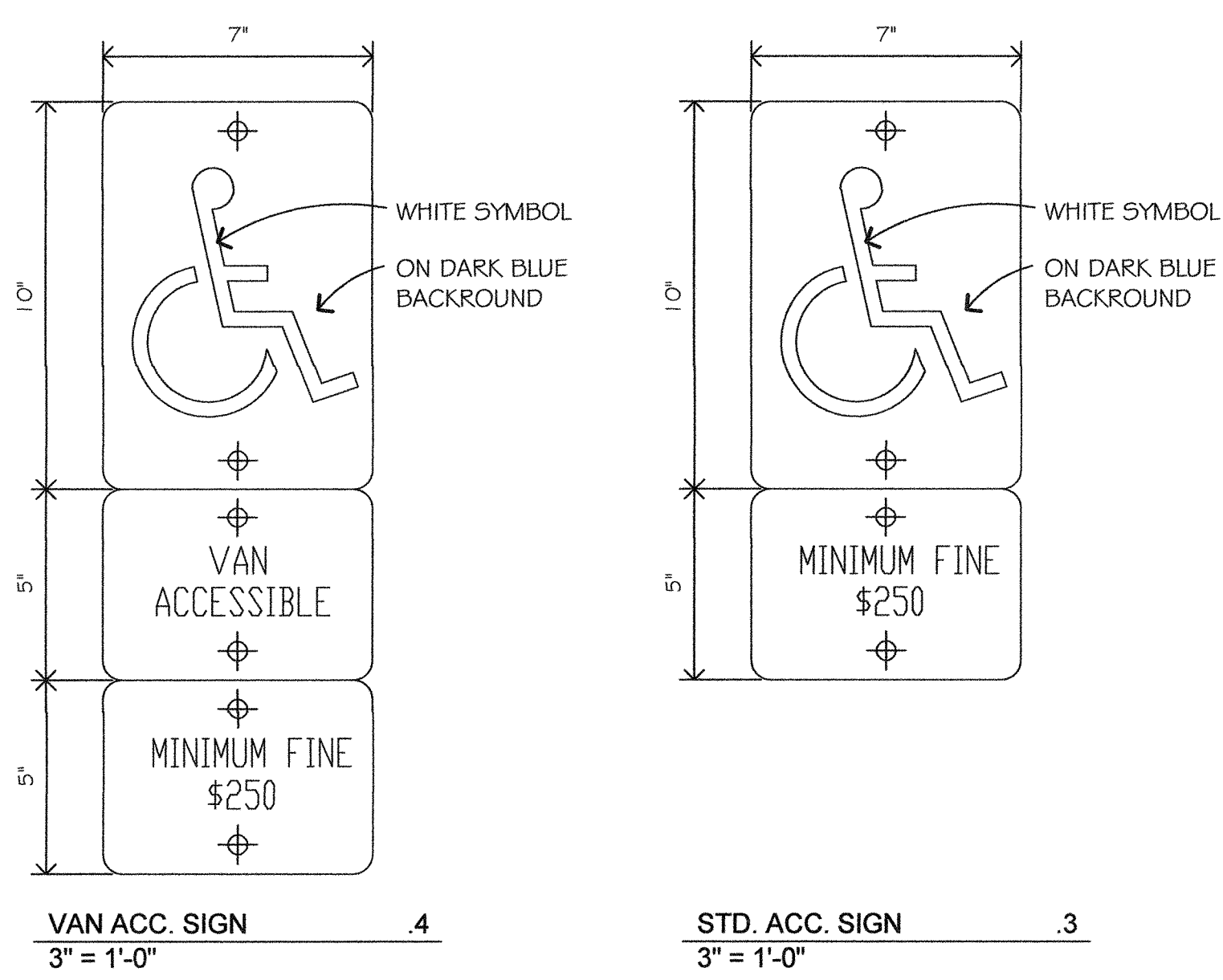
PROJECT
HVAC
CLASSROOM

5055 SANTA TERESA BLVD.
GILROY, CA 95020

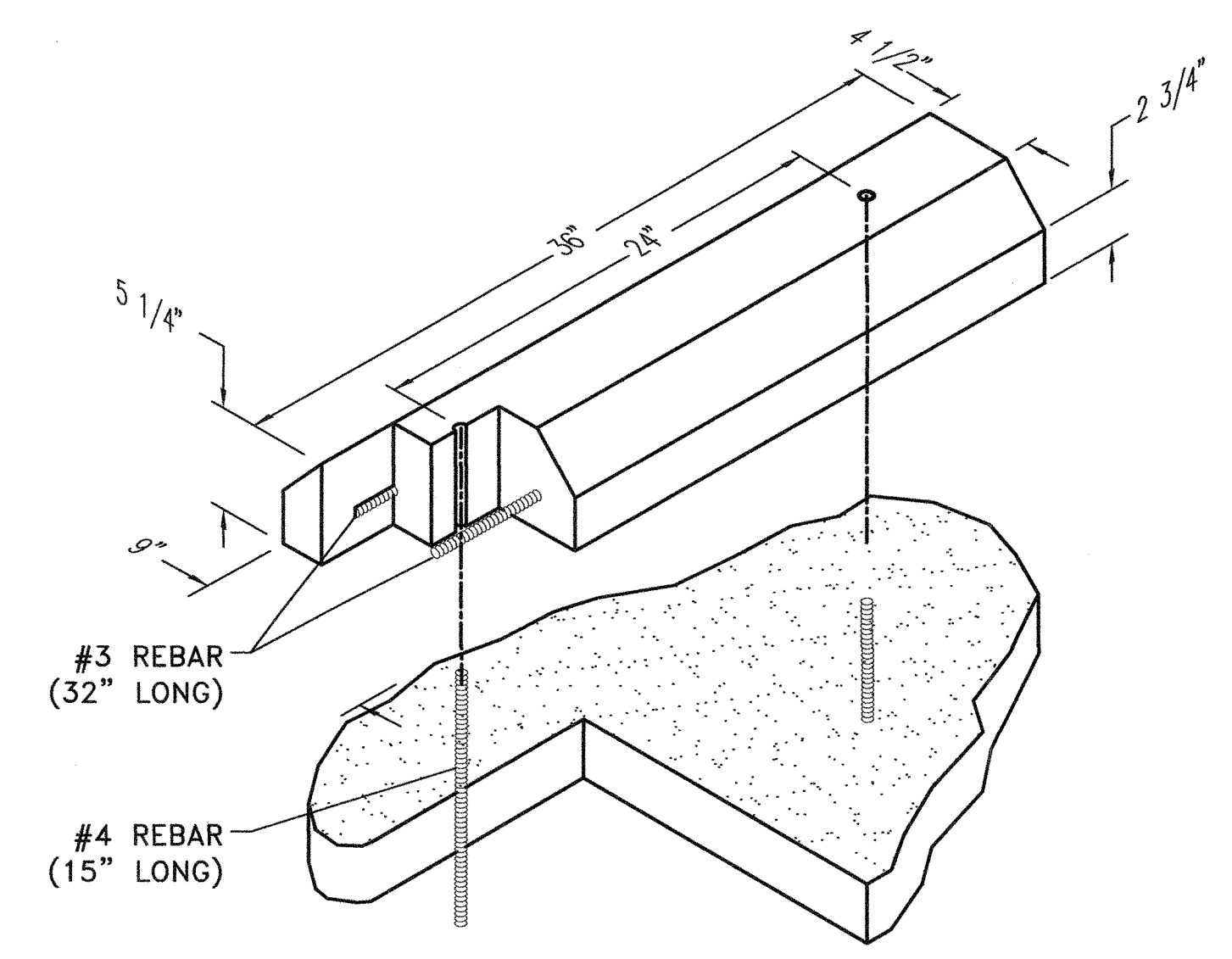
SHEET
SITE PLAN

PROJECT NUMBER: 1817
ISSUED: JUNE 28, 2018
DRAWN BY:
CHECKED BY:
FILENAME:

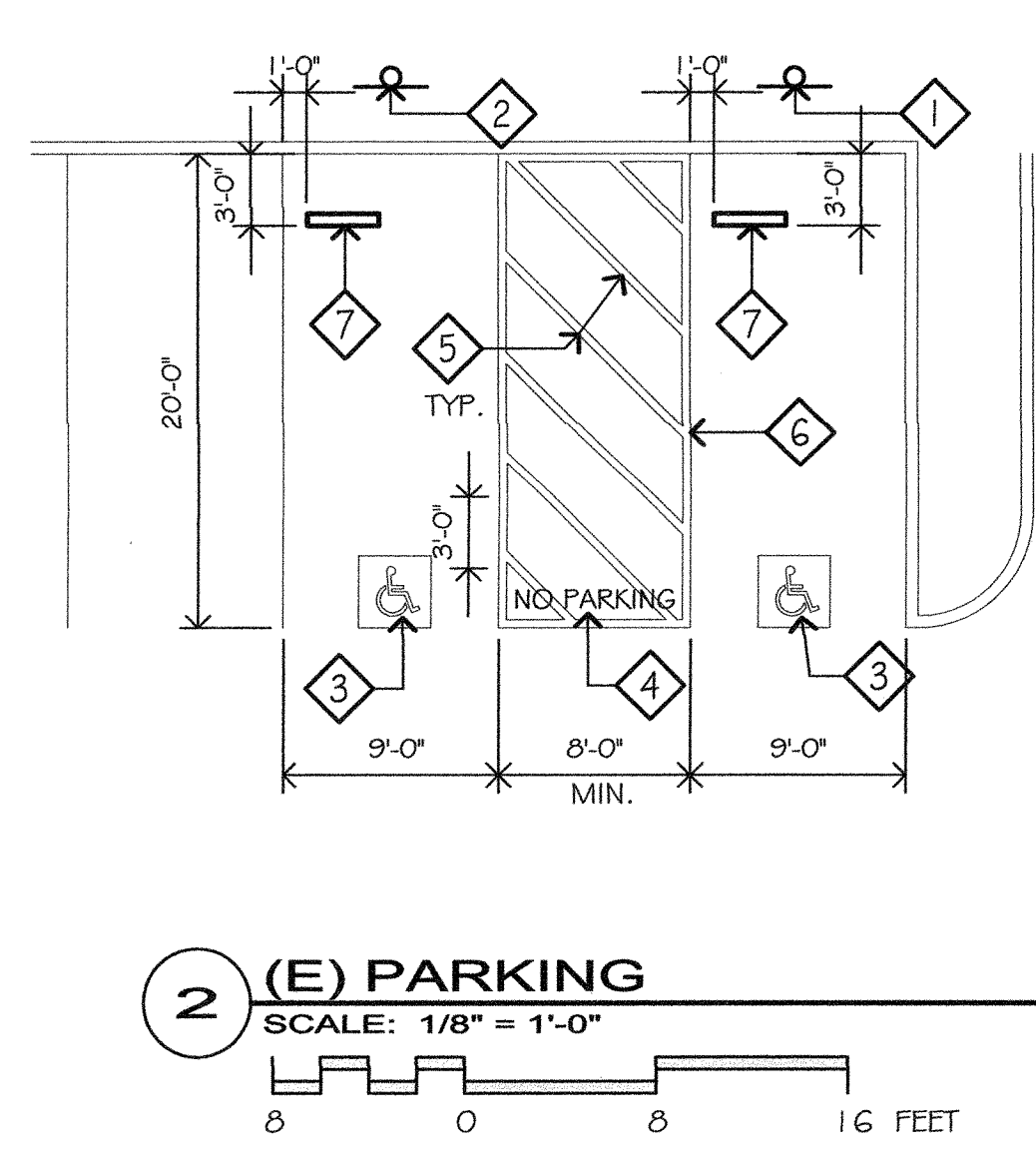
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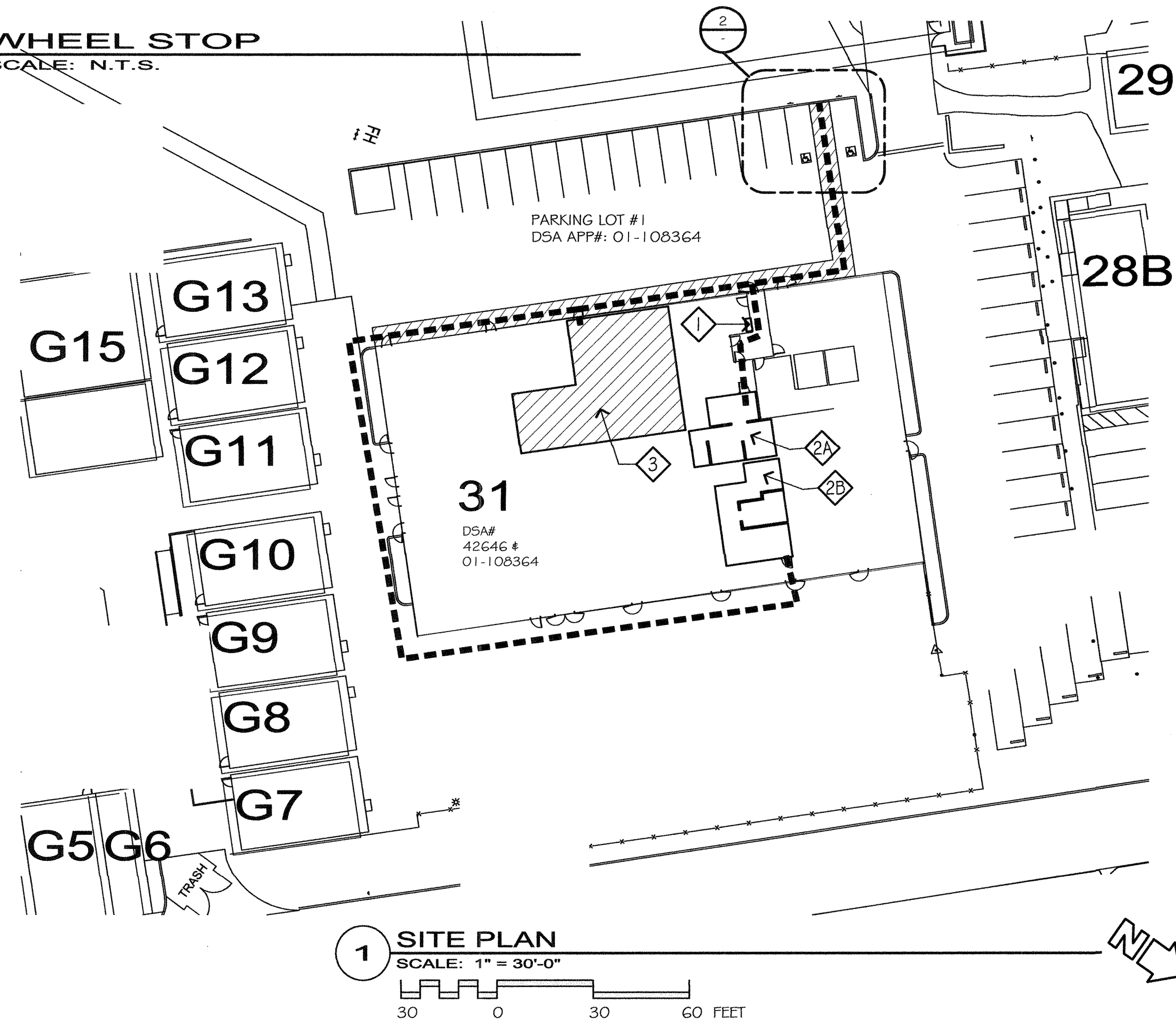
3 ACCESSIBLE PARKING SIGNAGE
SCALE: AS NOTED



4 WHEEL STOP
SCALE: N.T.S.



- KEYED NOTES**
- 1 (N) STD. ACC. SIGN TYPE SEE DTL. 3.3 & POST 3.1 THIS SHT.
 - 2 (N) VAN ACC. SIGN TYPE (ON EXISTING FOLE) SEE DTL. 3.4 THIS SHT.
 - 3 RE-STRIPE ACC. SIGN ON PAVING, SEE DTL. 2.2 THIS SHT.
 - 4 RE-STRIPE 1 2" HIGH PAINTED TEXT (WHITE)
 - 5 RE-STRIPE 4" WIDE STRIPPING (WHITE)
 - 6 RE-STIPE 4" WIDE STRIPED BORDER (BLUE)
 - 7 (N) 3' CONC. WHEEL STOP SEE DTL. 4 THIS SHT.



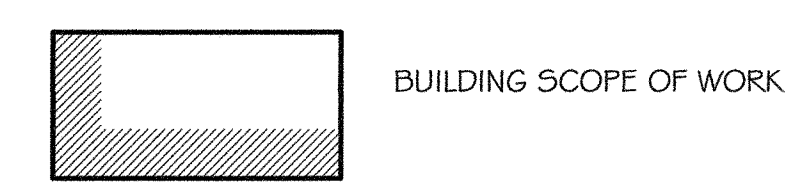
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KEYED NOTES

- 1 D.F. DSA #01-108364
- 2 ACCESSIBLE RESTROOMS
A. MEN DSA #01-108364
B. WOMEN DSA #01-108364
- 3 AREA OF WORK, SEE 1/A2.2

LEGEND



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BUILDING ANALYSIS

BLDG.	DESCRIPTION	OCC. TYPE	CONST. TYPE	AREA	DSA APP#
31	(E) OCCUPATIONAL EDUCATION	B	V-N	15,998 sf.	42646 01-108364

ALLOWABLE AREA INCREASE %	ALLOWABLE AREA INCREASE	ACTUAL AREAS ALLOWABLE AREAS
60' YARD 3-SIDES = 40x2.5 = 100%	16,000S.F.	15,998 S.F. 16,000 S.F. = 0.99 < 1.0 (OK)

PARKING - #1

STANDARD	VAN ACS.	STD. ACS.	TOTALS
29	1	1	31

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AC. FL. 3/1/18 CS. 3/1/18
DATE 09-06-2018

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CLIENT

GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

GAVILAN COLLEGE

PROJECT

HVAC CLASSROOM

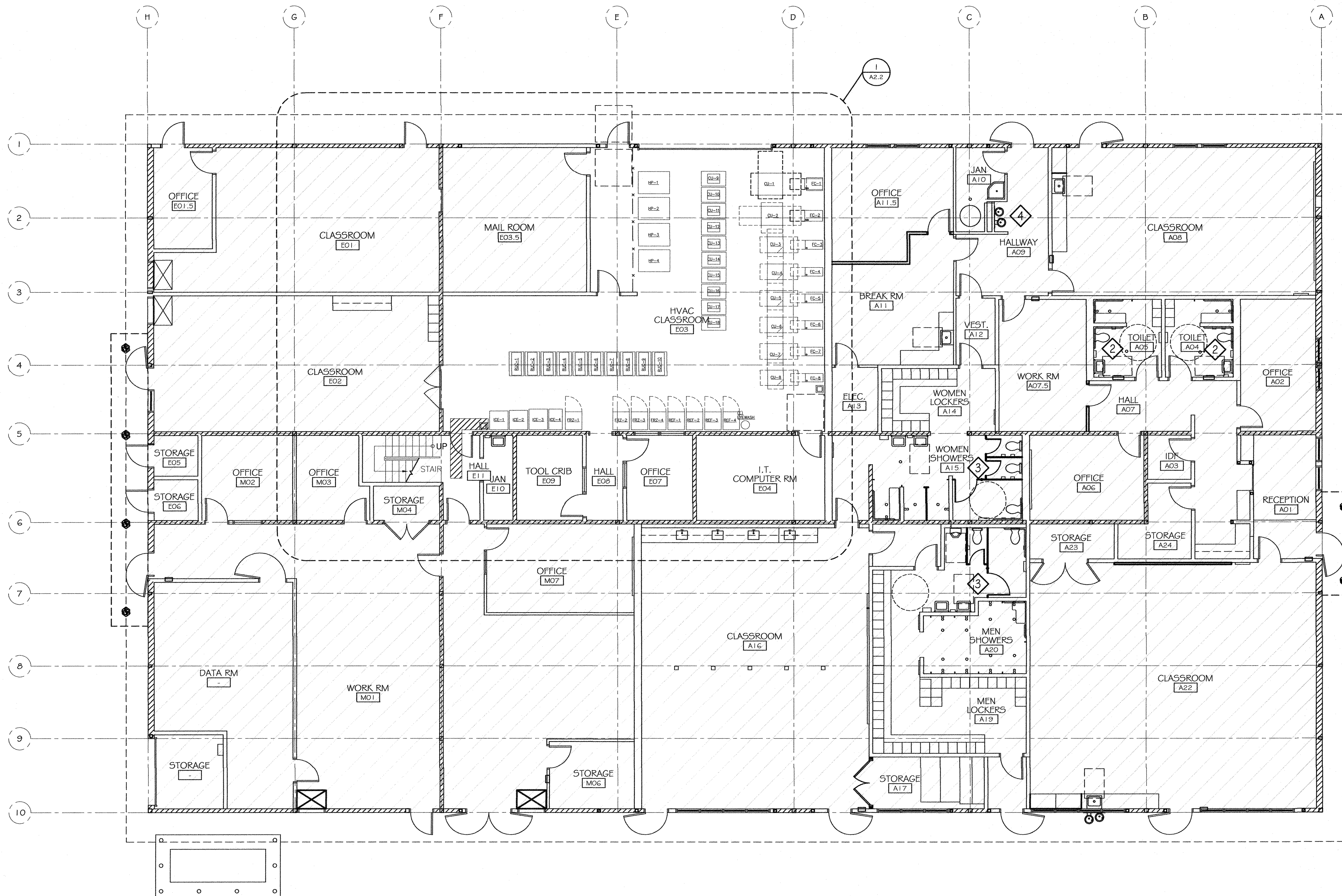
5055 SANTA TERESA BLVD.
GILROY, CA 95020

SHEET

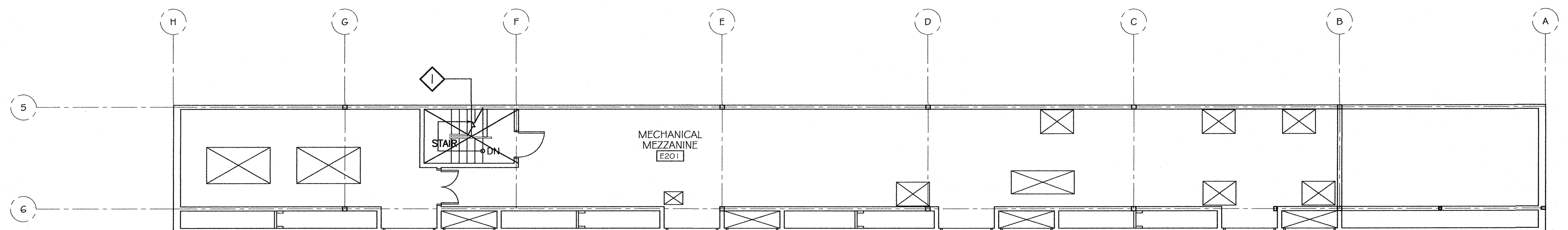
PARTIAL SITE PLAN

PROJECT NUMBER: 1817
ISSUED: JUNE 28, 2018
DRAWN BY:
CHECKED BY:
FILENAME:

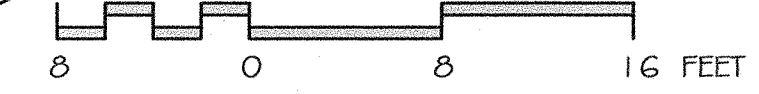
A1.2



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



1 FLOOR PLAN - MECHANICAL MEZZANINE
SCALE : 1/8" = 1'-0"



GENERAL NOTES

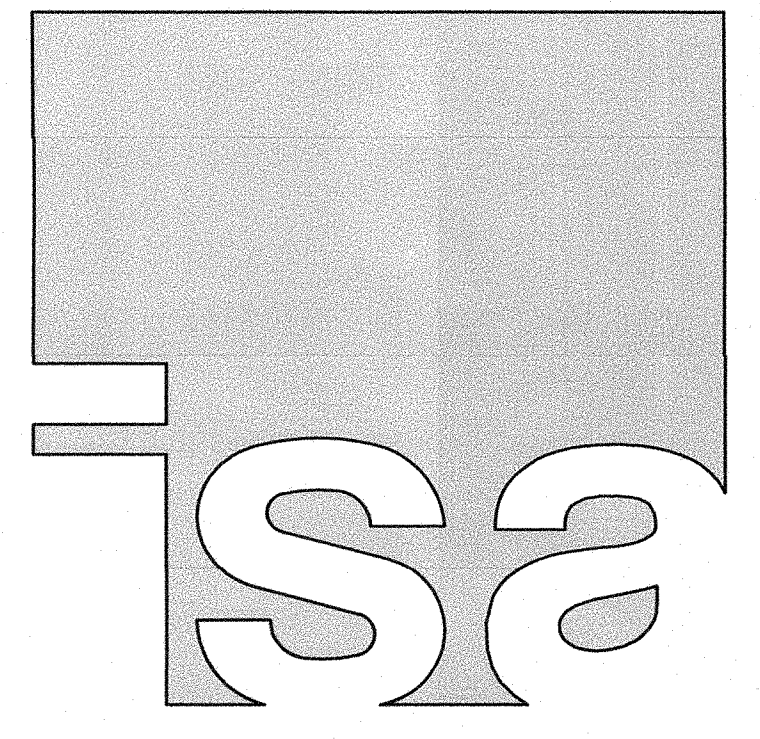
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KEYED NOTES

- 1 (E) STAIR, OPEN TO BELOW
- 2 (E) TOILET PER DSA # 01-108364
- 3 (E) SHOWER/TOILET PER DSA# 01-108364
- 4 (E) D.F. PER DSA# 01-108364

LEGEND

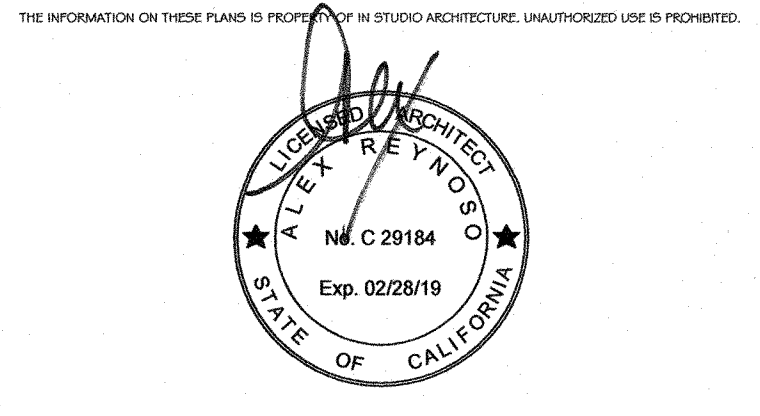
- (E) NON - SHEAR WALL
- (E) SHEAR WALL
- (E) FACILITY - NO CHANGE



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GAVILAN JOINT
COMMUNITY
COLLEGE DISTRICT



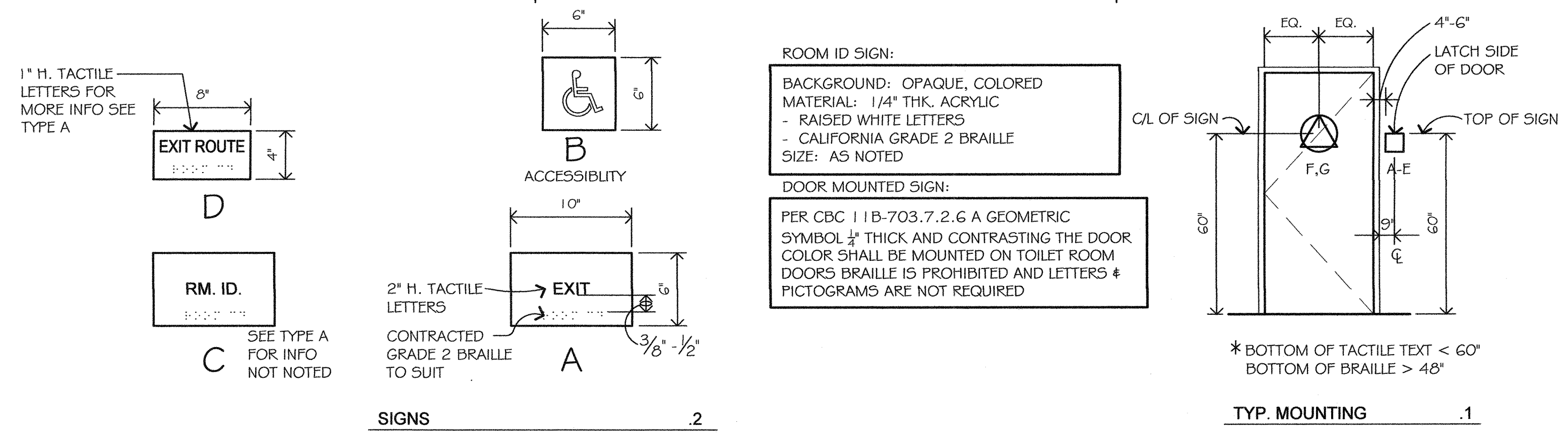
PROJECT
HVAC
CLASSROOM

5055 SANTA TERESA BLVD.
GILROY, CA 95020

SHEET
FLOOR PLAN

PROJECT NUMBER: 1817
ISSUED: JUNE 28, 2018
DRAWN BY:
CHECKED BY:
FILENAME:

A2.1



2 TYP. SIGNAGE
 SCALE: N.T.S.

GENERAL NOTES

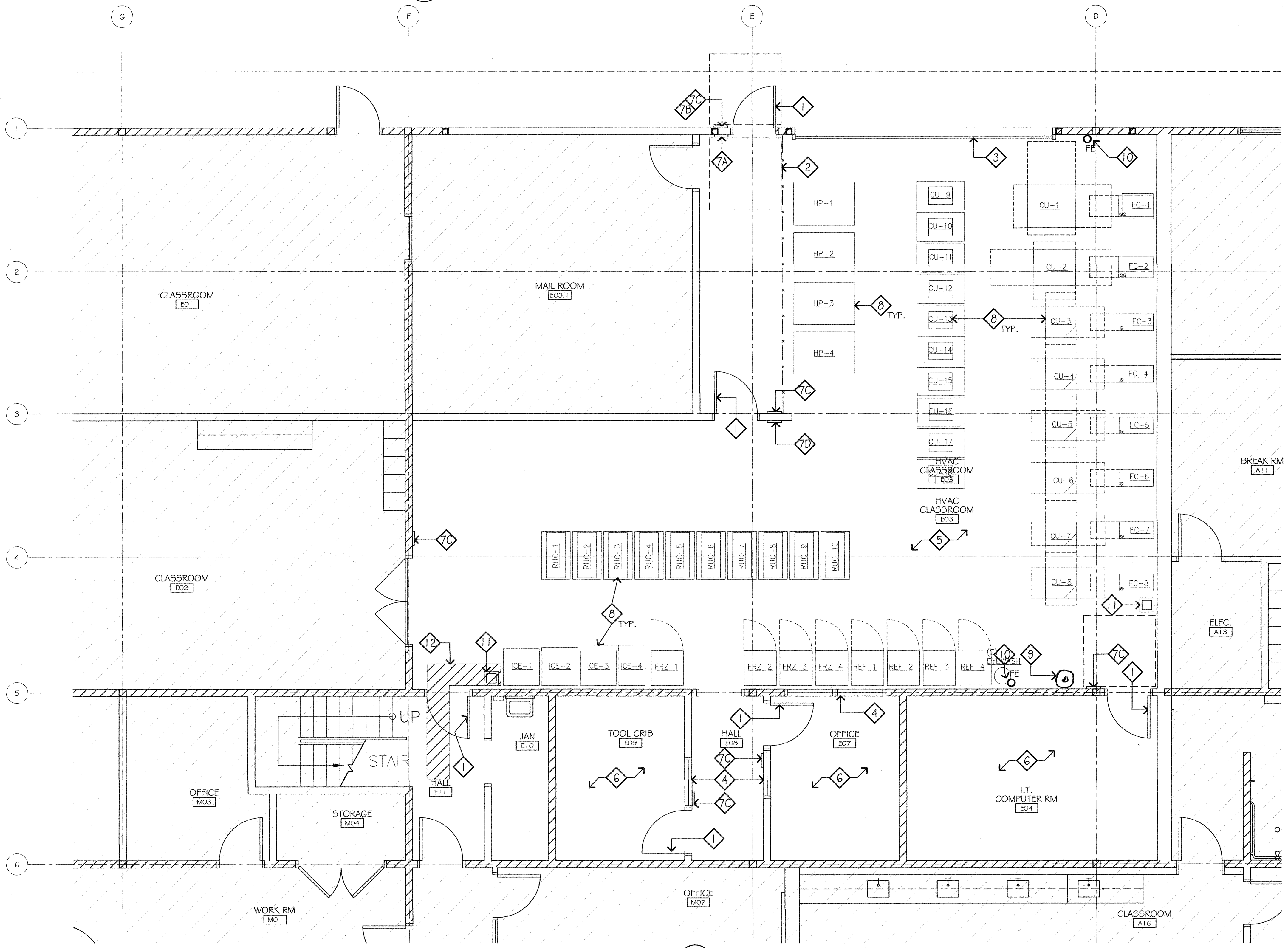
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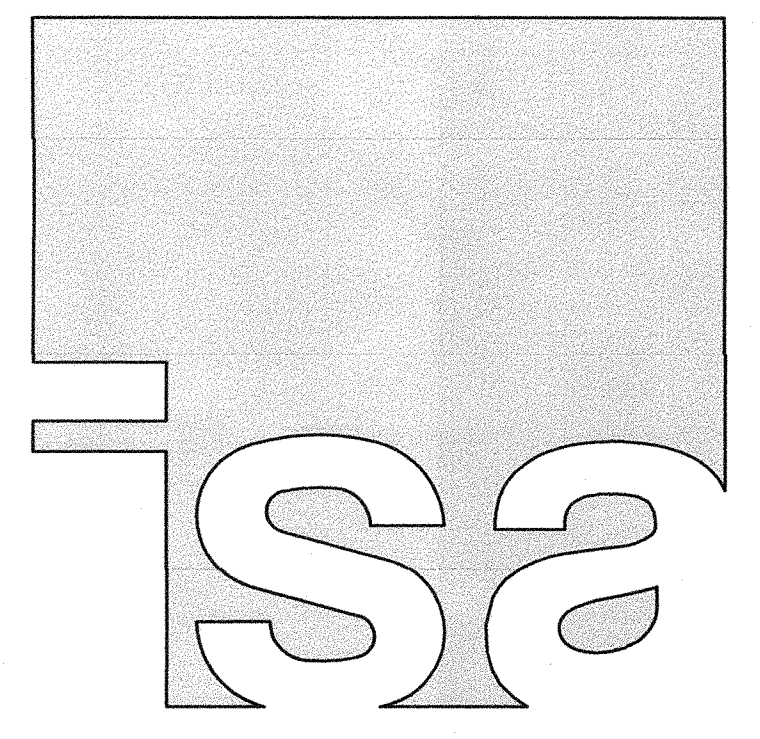
- 1 (E) DOOR & FRAME W/ (N) LEVER HARDWARE, GROUP 'A'
- 2 (E) CHAINLINK FENCE
- 3 (E) ROLL-UP DOOR
- 4 (E) WINDOW
- 5 SEAL (E) CONC. FLOOR
- 6 (N) V.C.T. & RUBBER BASE
- 7 (N) SIGN, SEE 2
- 8 (N) EDUCATIONAL EQUIPMENT, SEE MECH.
- 9 RELOCATE (E) EMERGENCY SHOWER, SEE PLUMBING, ~~SHOWER HANDLES~~
- 10 FIRE EXTINGUISHER, WALL MOUNTED NFPA-10, MNT AT 3'-5" A.F.F. W/ CURRENT CERTIFICATION TAG TYPE 'A' - 2A: 10BC; ONE PER 3000 S.F. OR FRACTION THEREOF; MAX. DISTANCE 75'
- 11 (N) FLOOR SINK, SAW CUT (E) CONC. SEE 1/AG.1 AND SEE PLUMBING
- 12 SAW CUT AND PATCH CONC. SLAB FOR PLUMBING SEE 1/AG.1

LEGEND

SEE A2.1



1 PARTIAL FLOOR PLAN
 SCALE: 1/4" = 1'-0"
 4 0 4 8 FEET



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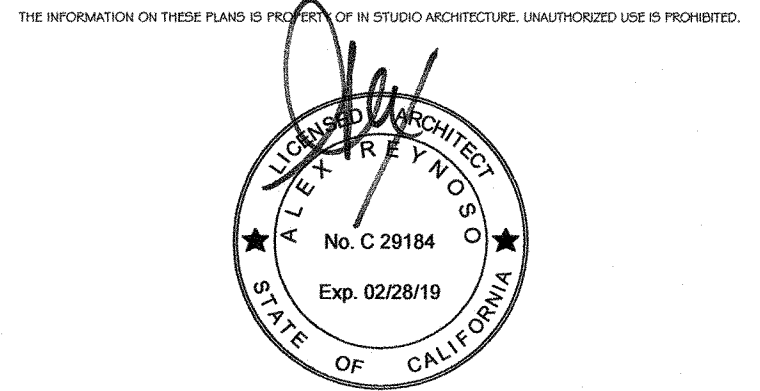
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 COMMUNITY
 COLLEGE DISTRICT



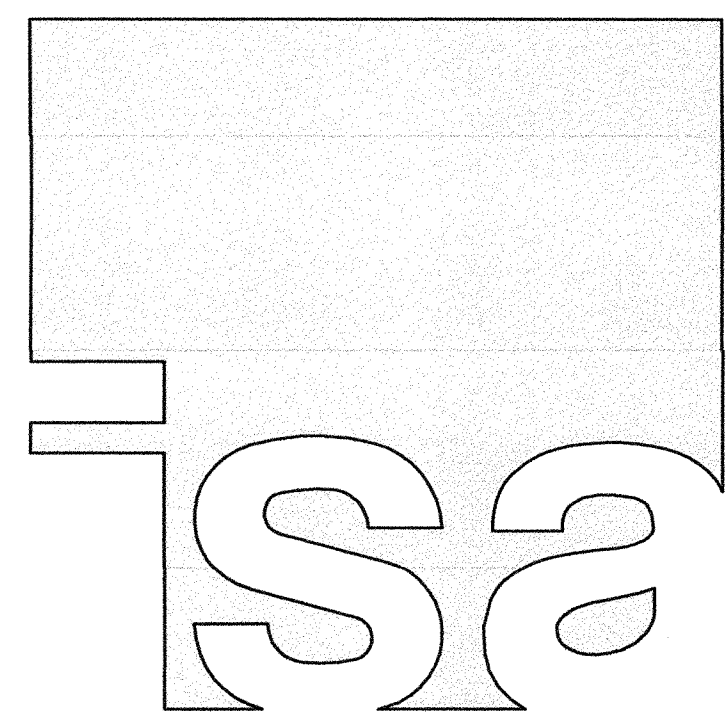
PROJECT
 HVAC
 CLASSROOM

5055 SANTA TERESA BLVD.
 GILROY, CA 95020

SHEET
 FLOOR PLAN

PROJECT NUMBER: 1817
 ISSUED: JUNE 28, 2018
 DRAWN BY:
 CHECKED BY:
 FILENAME:

A2.2

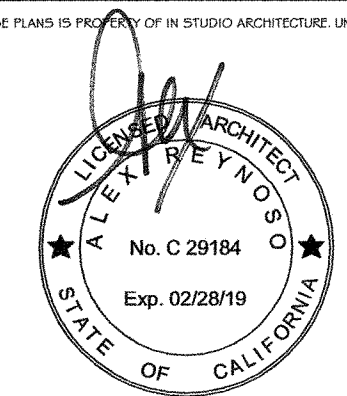


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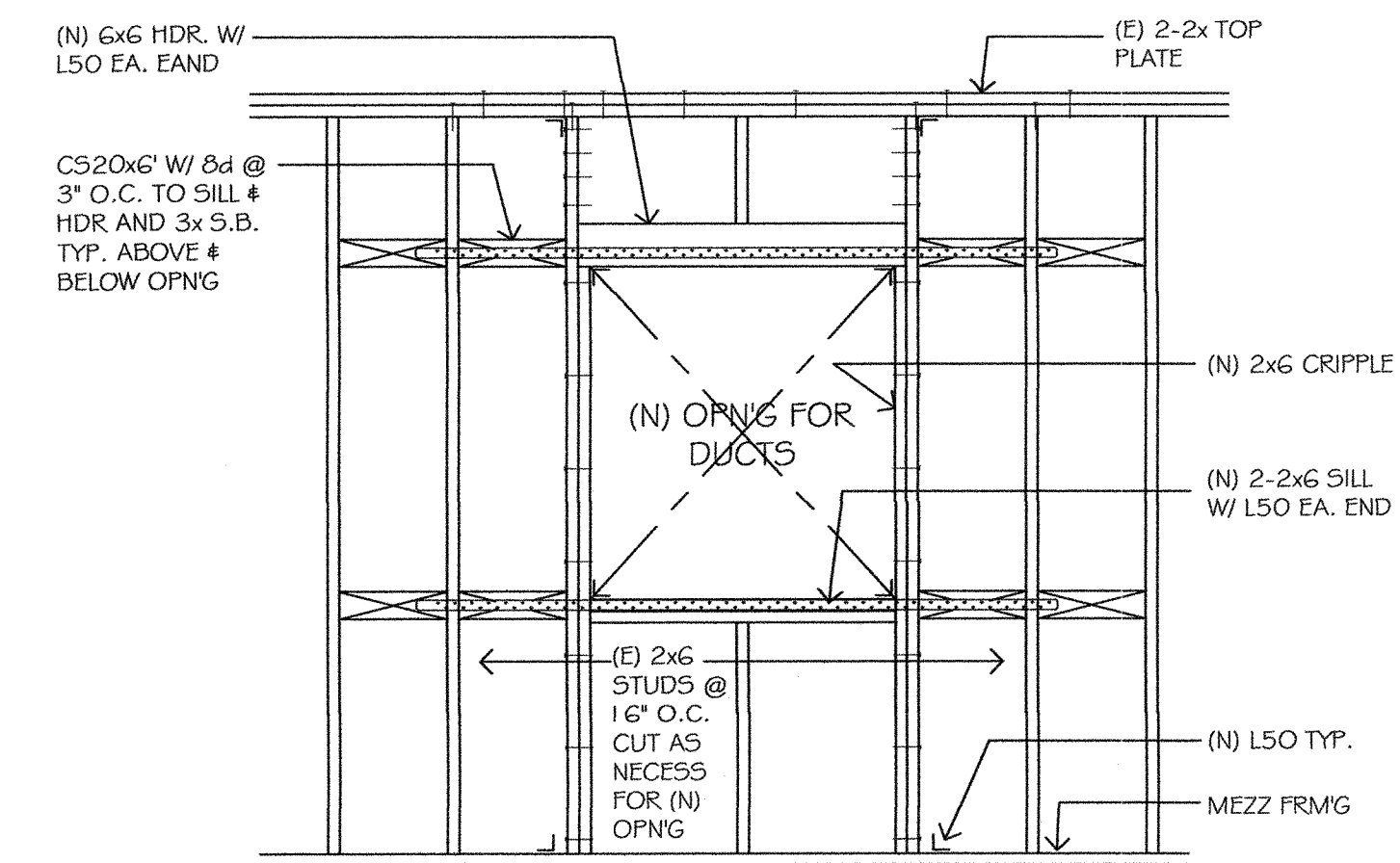
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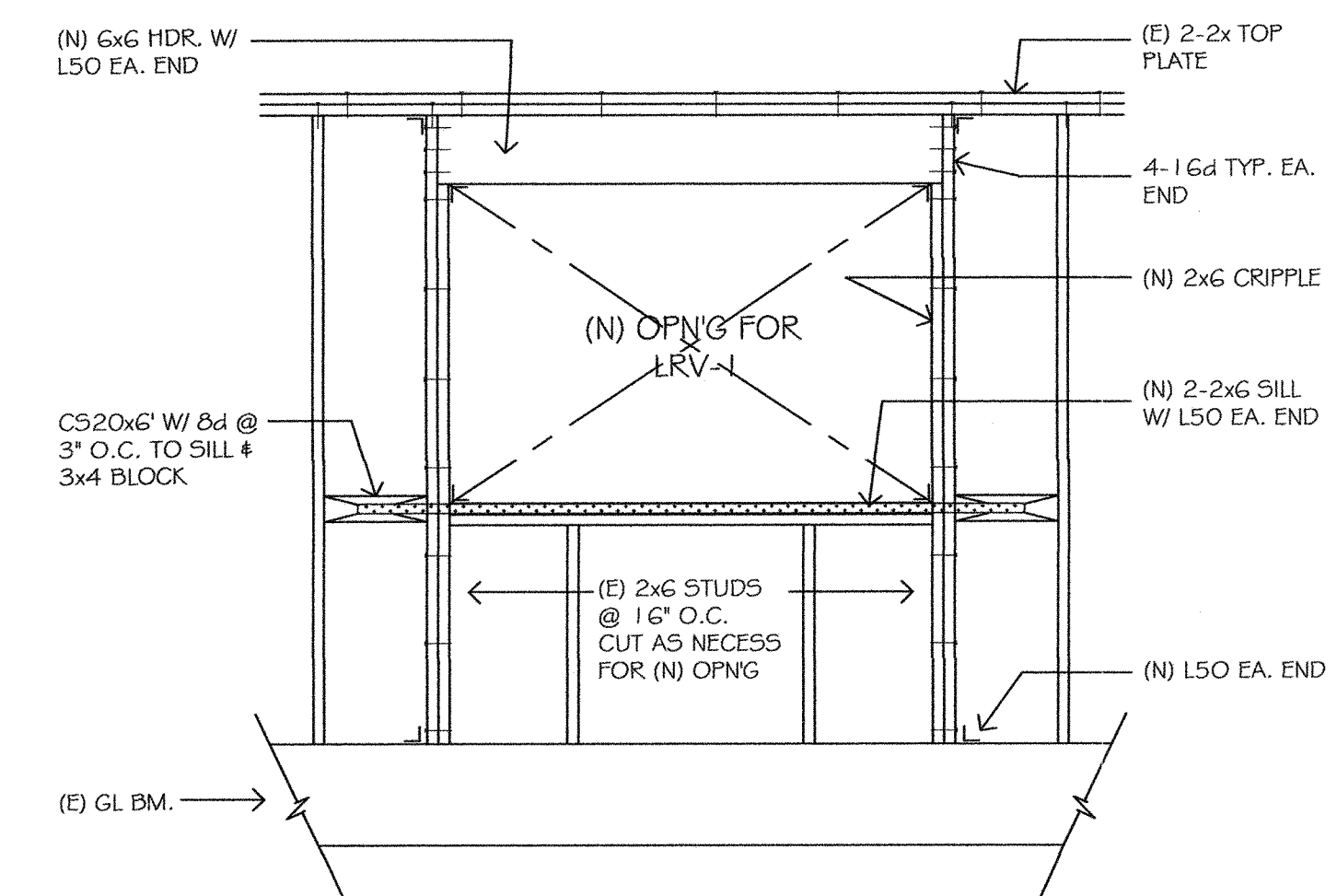
SHEET
DETAILS

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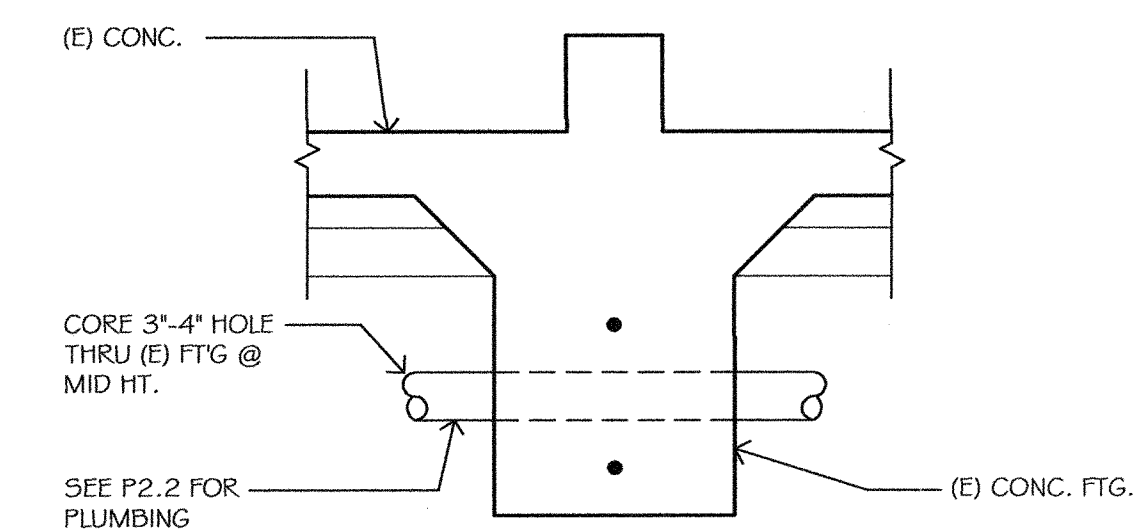
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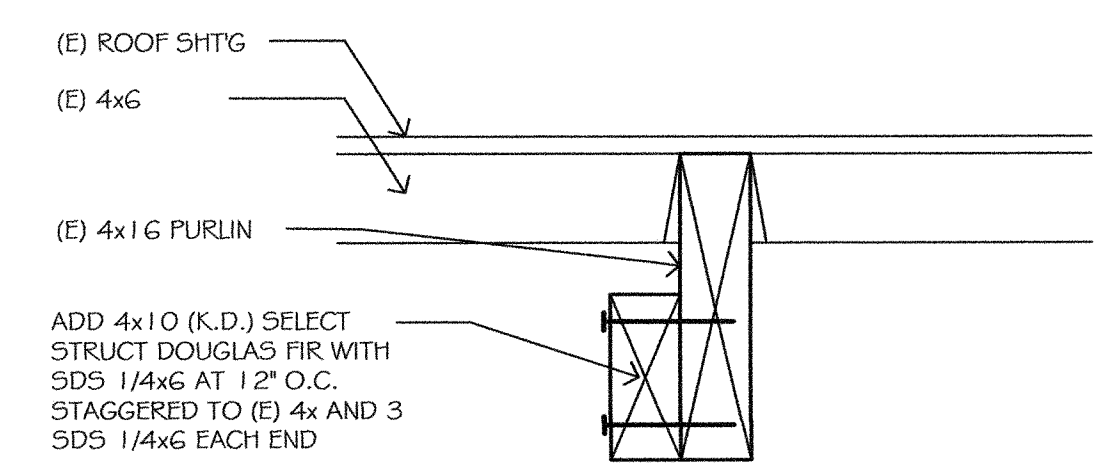
4 FRAMING @ DUCT PEN
 SCALE: N.T.S.



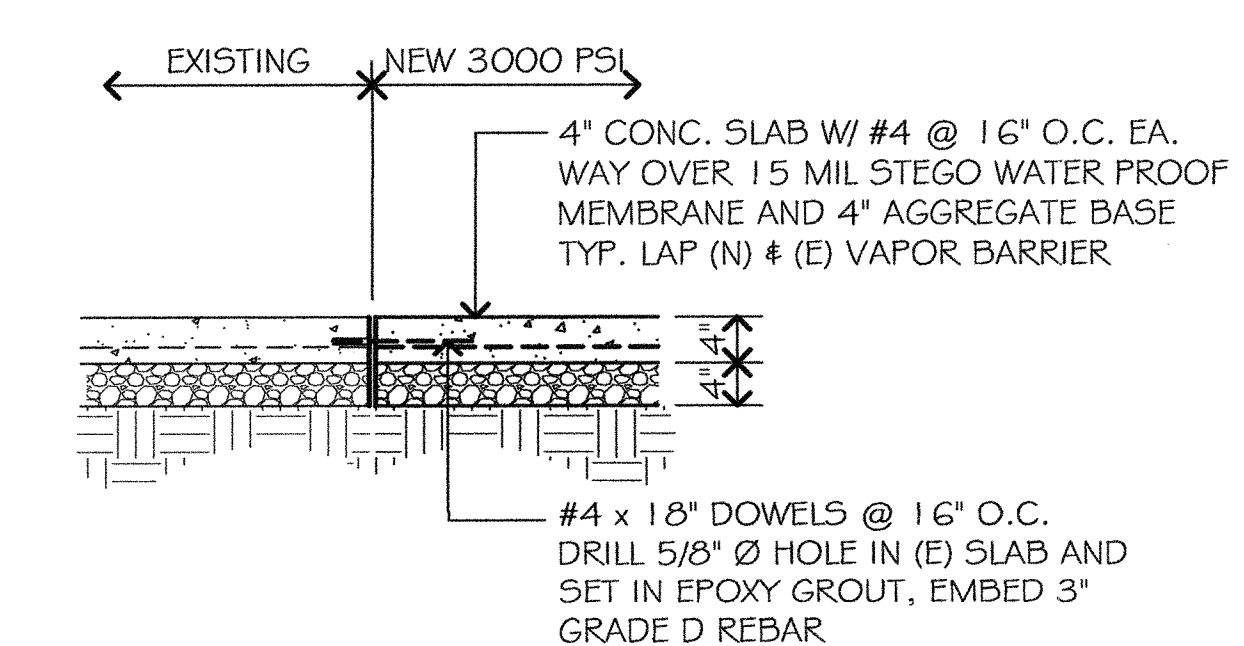
3 FRAMING @ LVR-1
 SCALE: N.T.S.



2 PIPE PENETRATITION
 SCALE: N.T.S.

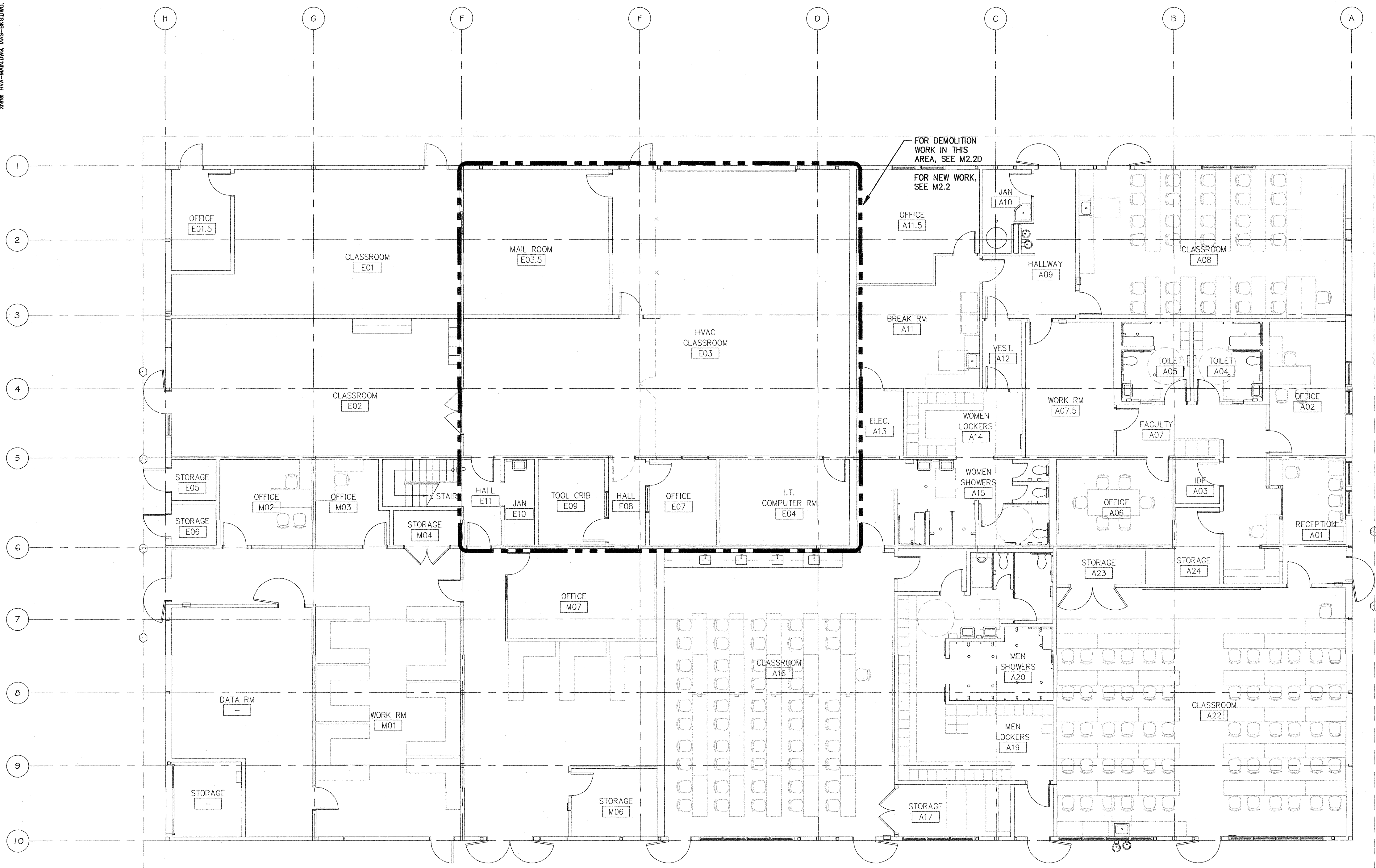


5 BLOCK'G AT ROOF FRAMING
 SCALE: 1"=1'-0"

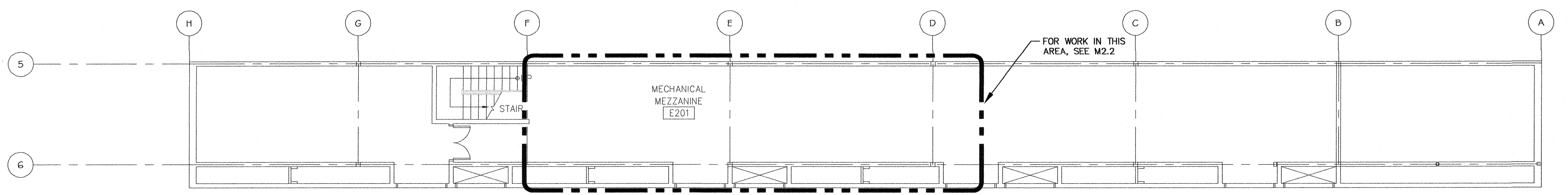


1 CONC. SLAB PATCH
 SCALE: 3/4"=1'-0"

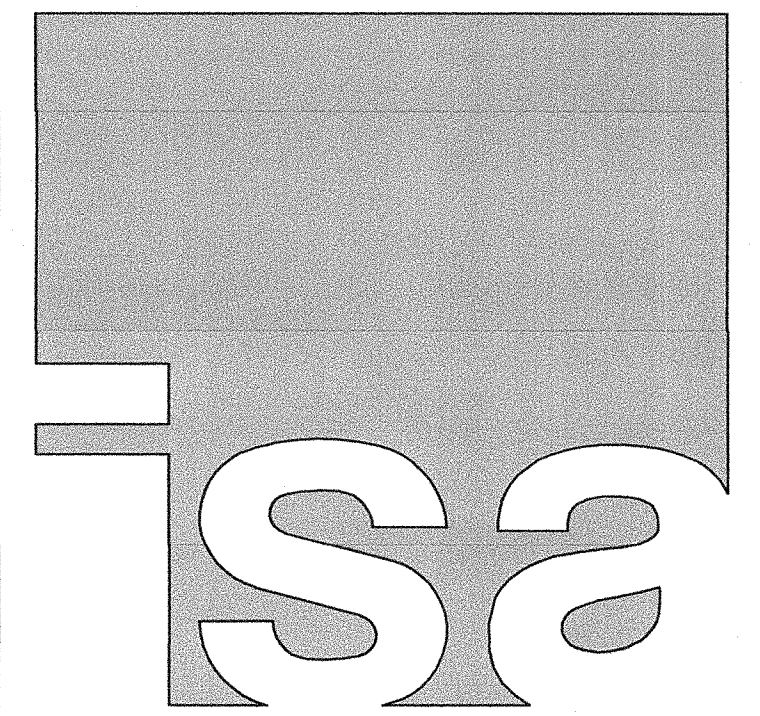
THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION, OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE FIRM EVIDENCE OF THE ACCEPTANCE OF THESE INSTRUCTIONS. AXIOM ENGINEERS INC., LEE & ASSOCIATES CONSULTING ENGINEERS
 June 19, 2018 4:05:13 p.m.
 14' WORKSPACE SURROUNDING DRAWING PER CALIFORNIA BOARD OF ARCHITECTURE
 DATE: 11/14/2018
 FILE: M2.1
 DRAWING: M2.1



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



FLOOR PLAN MEZZANINE - MECHANICAL
SCALE: 1/8" = 1'-0"



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 AC *[Signature]* SEP 20 2018
 DATE

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CLIENT
GAVILAN JOINT
COMMUNITY
COLLEGE DISTRICT



PROJECT
HVAC
CLASSROOM

5055 SANTA TERESA BLVD
 GILROY, CA

SHEET
FLOOR PLANS -
MECHANICAL

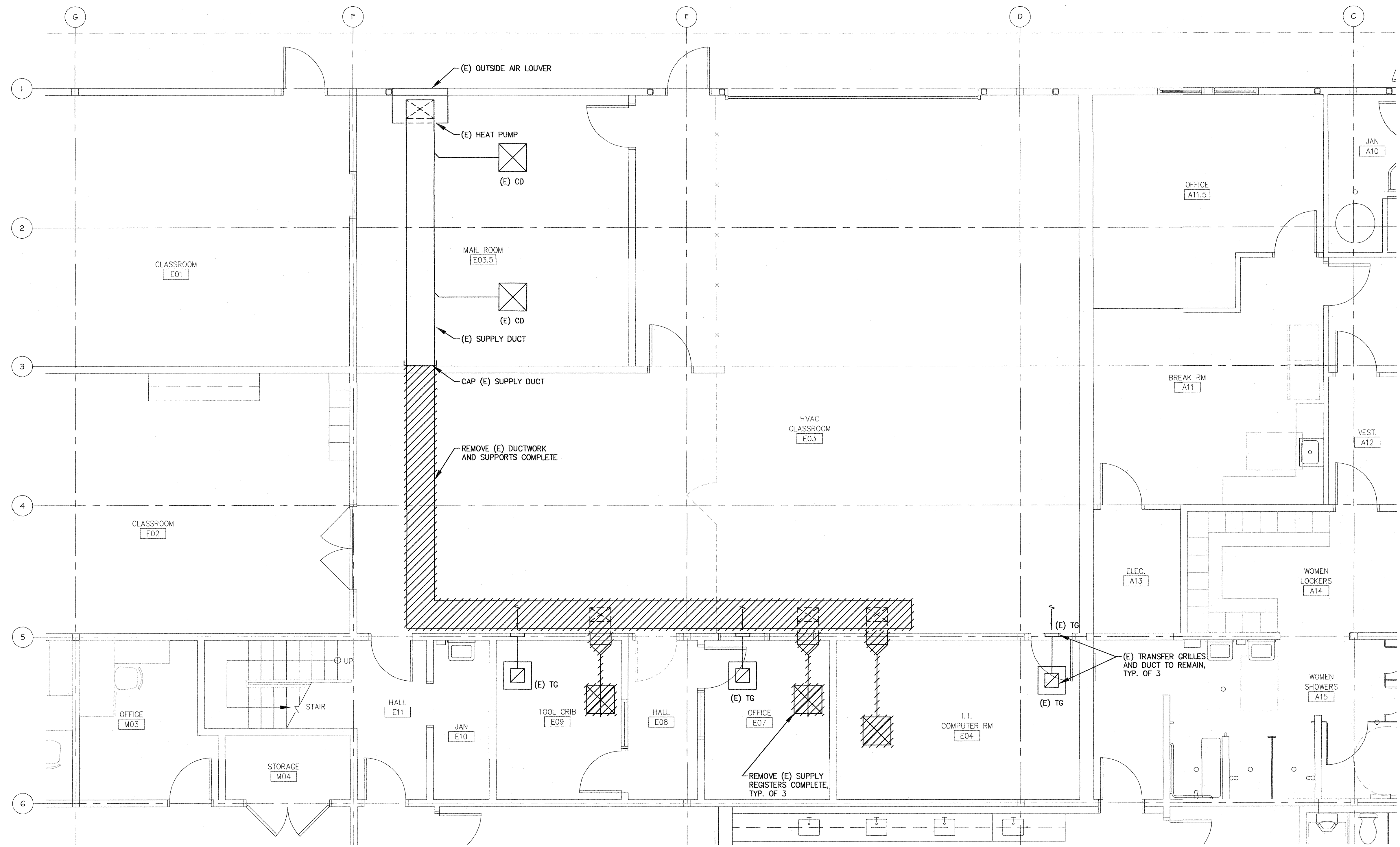
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 ISSUED: SEP 6, 2018
 DRAWN BY: CADD
 CHECKED BY: MS
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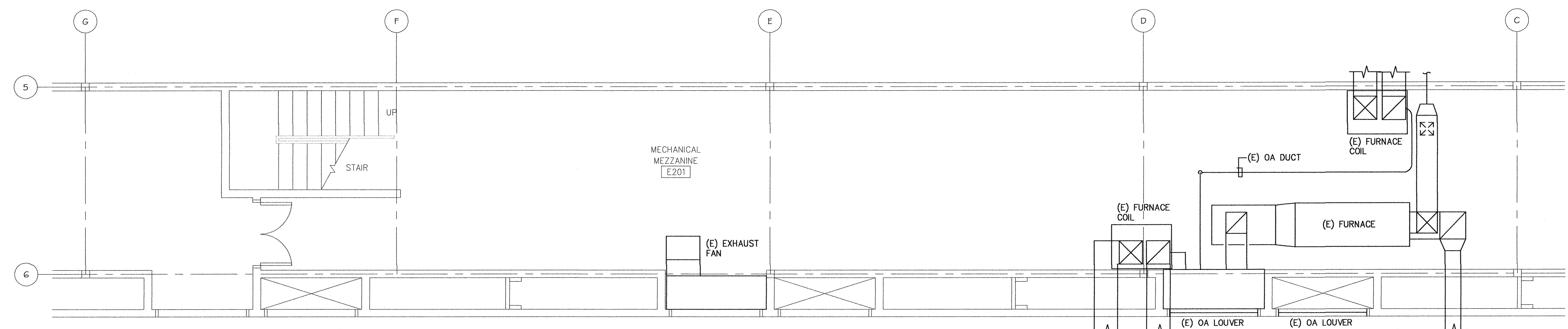
vc: (831) 648-8000
 fx: (831) 648-8038
 email: mail@axiomengineers.com
AXIOM ENGINEERS
 LEE & ASSOCIATES
 CONSULTING ENGINEERS
22 Lower Regalade Dr., Suite A
 Monterey, California 93940-5786

M2.1

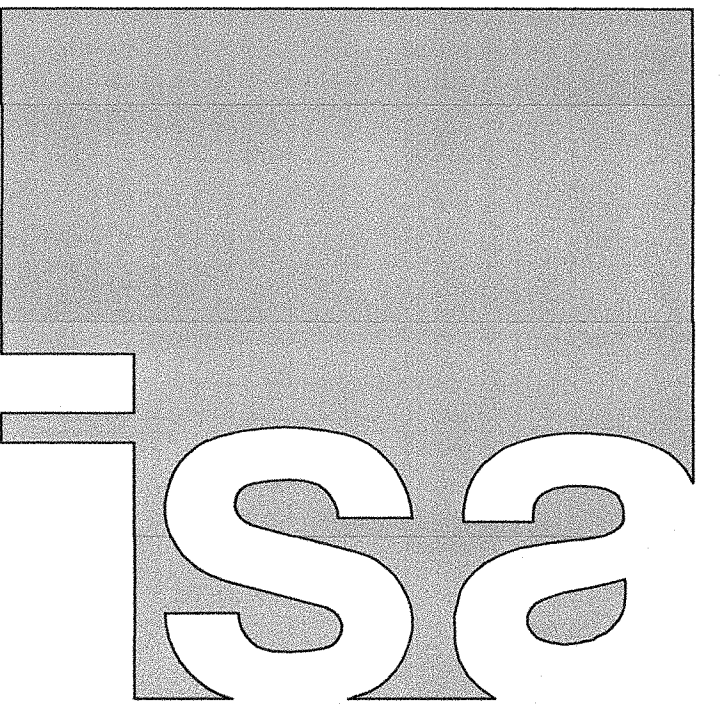
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PARTIAL FLOOR PLAN - MECHANICAL DEMOLITION
SCALE: 1/4" = 1'-0"



PARTIAL MEZZANINE FLOOR PLAN - MECHANICAL DEMOLITION
SCALE: 1/4" = 1'-0"



IN STUDIO ARCHITECTURE
250 MAIN STREET
SALINAS, CA 93901
831.320.2655

DATES _____
IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
01-117638
APPLICATION NUMBER
AC 9A FL 3/11 SS 3/12
DATE SEP - 6 2019

CLIENT
GAVILAN JOINT COMMUNITY COLLEGE DISTRICT



PROJECT
HVAC CLASSROOM

5055 SANTA TERESA BLVD
GILROY, CA

SHEET
PARTIAL FLOOR PLANS - MECHANICAL DEMOLITION

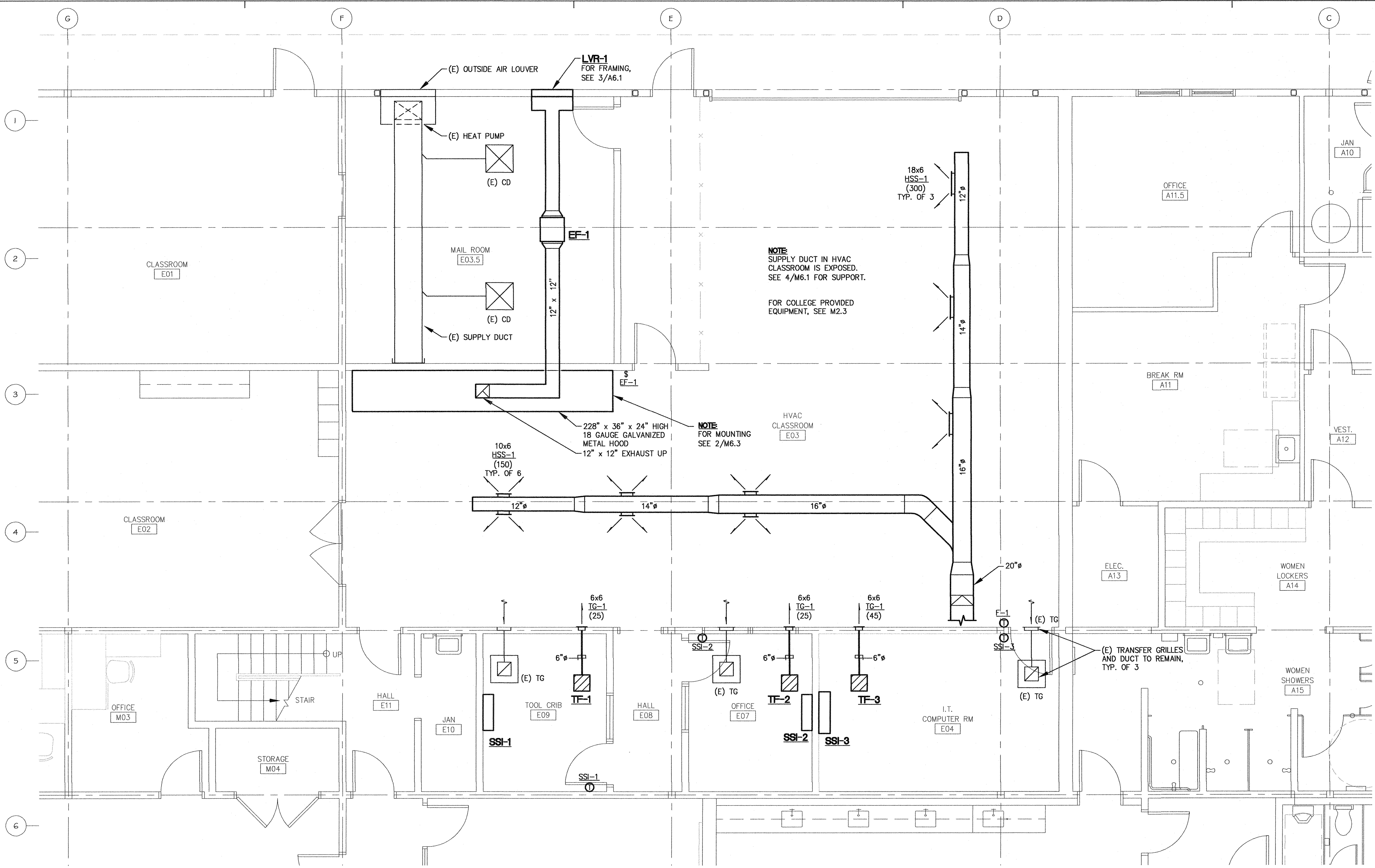
PROJECT NUMBER: 1817
ISSUED: SEP 6, 2018
DRAWN BY: CADD
CHECKED BY: MS
FILENAME:



vc. (831) 649-8000
fx. (831) 649-8038
email: mol@axiomengineers.com
AXIOM ENGINEERS
LEE & ASSOCIATES
CONSULTING ENGINEERS
22 Lower Rogsdale Dr., Suite A
Monterey, California 93940-5786
AE Project #: 20180006

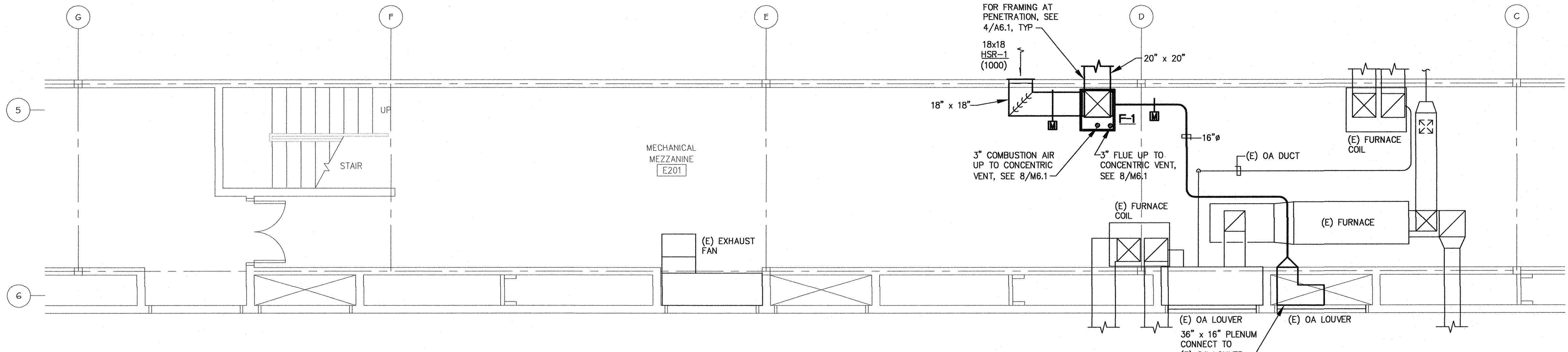
M2.2D

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 June 19, 2018 10:02:33 PM
 Drawing: HVAC MECHANICAL CLASSROOM DISTRICT
 PROJECT: HVAC MECHANICAL CLASSROOM DISTRICT
 FILE: HVAC-MECHANICAL-CLASSROOM-DISTRICT.MXD



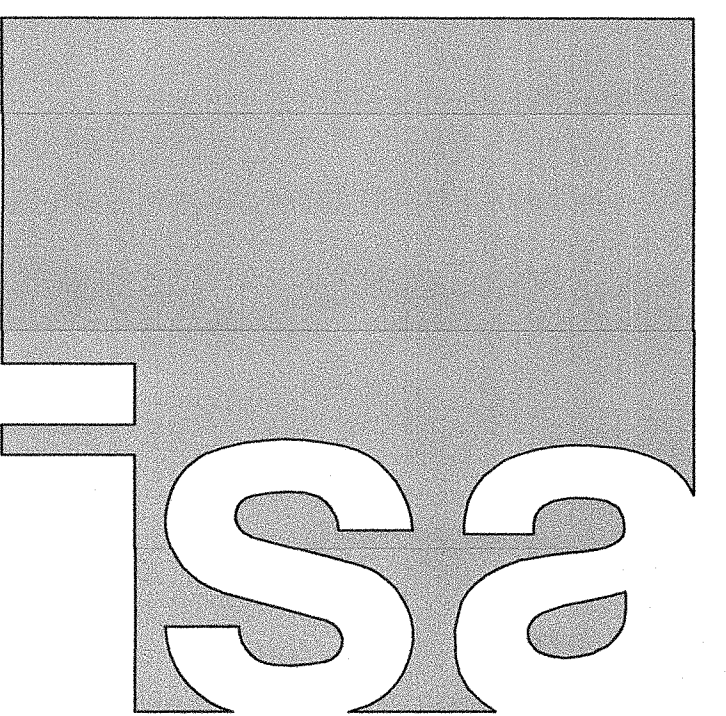
PARTIAL FLOOR PLAN - MECHANICAL

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



PARTIAL MEZZANINE FLOOR PLAN - MECHANICAL

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



IN STUDIO ARCHITECTURE
 250 MAIN STREET
 SALINAS, CA 93901
 831.320.2655

DATES: _____

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT

01-117638
 APPLICATION NUMBER

AC FL 301/CS 0025
 DATE SEP - 6 2018

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CLIENT
GAVILAN JOINT COMMUNITY COLLEGE DISTRICT



PROJECT
HVAC CLASSROOM

5055 SANTA TERESA BLVD
 GILROY, CA

SHEET
PARTIAL FLOOR PLANS - MECHANICAL

PROJECT NUMBER: 1817
 ISSUED: SEP 6, 2018
 DRAWN BY: CADD
 CHECKED BY: MS
 FILENAME: _____



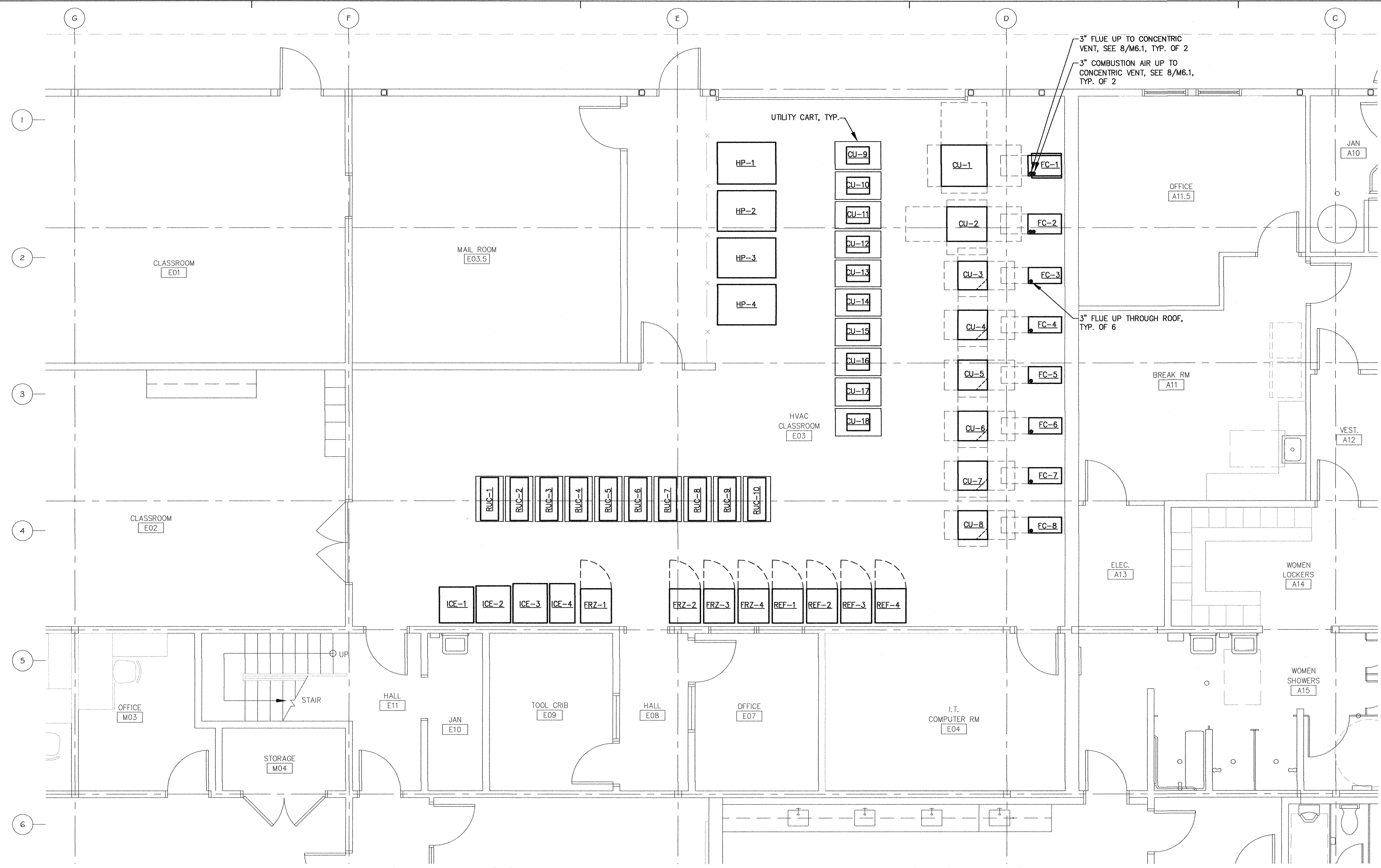
vc. (831) 649-8000
 fx. (831) 649-8038
 email: mail@axiomengineers.com

AXIOM ENGINEERS
LEE & ASSOCIATES
 CONSULTING ENGINEERS

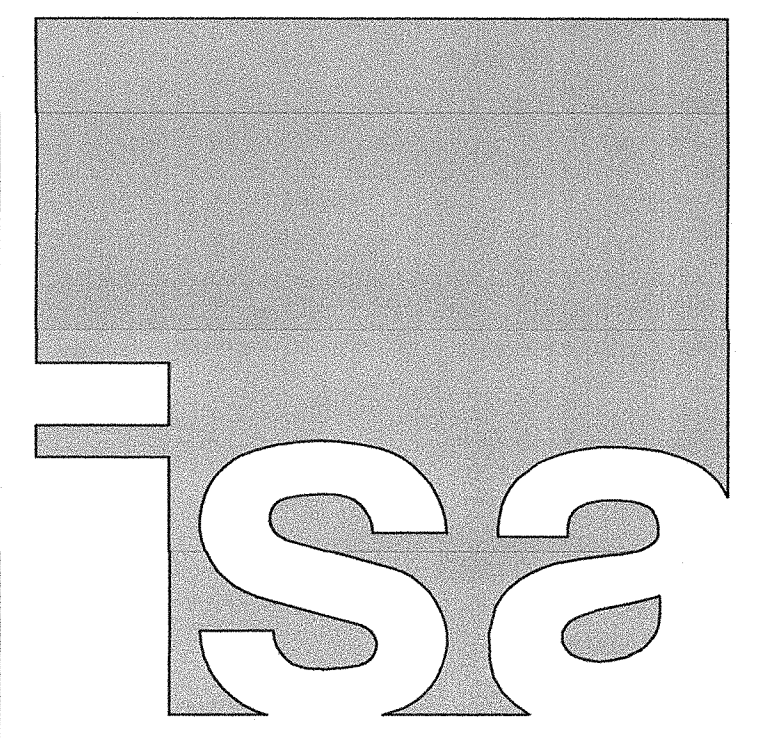
AE Project #: 20180056
 22 Lower Roggole Dr., Suite A
 Monterey, California 93940-5788

M2.2

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 June 21, 2018 10:01:38 a.m.
 Drawing: HVAC CLASSROOM SALINAS COLLEGE DISTRICT
 PROJECT: HVAC CLASSROOM SALINAS COLLEGE DISTRICT



PARTIAL FLOOR PLAN - MECHANICAL OWNER PROVIDED EQUIPMENT
 SCALE: 1/4" = 1'-0"



IN STUDIO ARCHITECTURE
 250 MAIN STREET
 SALINAS, CA 93901
 831.320.2655

DATES _____
 IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 01-117638
 APPLICATION NUMBER
 AC: [Signature] SS: [Signature]
 DATE: SEP - 6 2018

CLIENT
GAVILAN JOINT COMMUNITY COLLEGE DISTRICT



PROJECT
HVAC CLASSROOM

5055 SANTA TERESA BLVD
 GILROY, CA

SHEET
PARTIAL FLOOR PLAN - MECHANICAL OWNER PROVIDED EQUIPMENT

PROJECT NUMBER: 1817
 ISSUED: SEP 6, 2018
 DRAWN BY: CADD
 CHECKED BY: MS
 FILENAME: _____



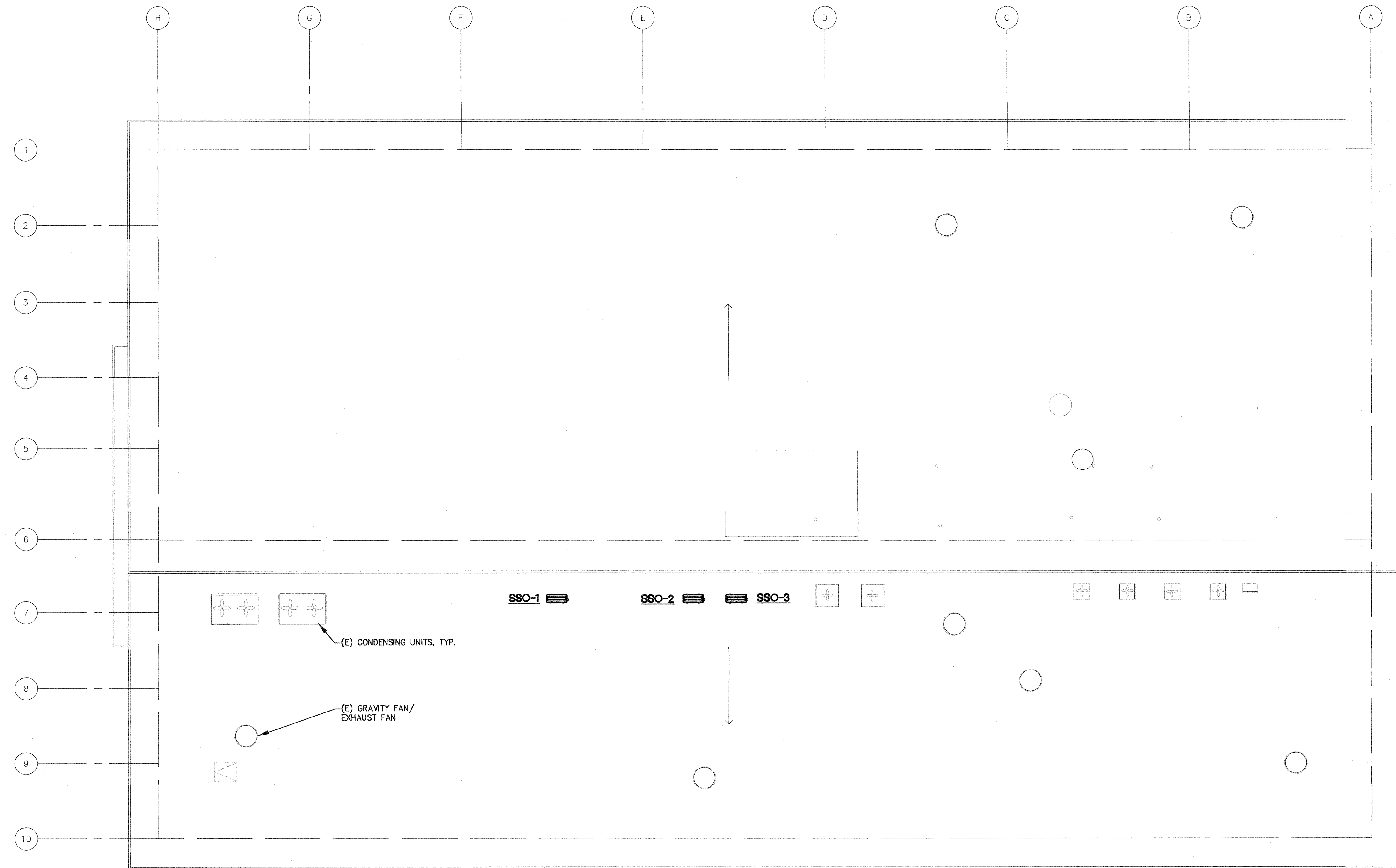
vc: (831) 649-8000
 fx: (831) 649-8038
 email: mail@axiomengineers.com



AXIOM ENGINEERS
 LEE & ASSOCIATES
 CONSULTING ENGINEERS
 22 Lower Ragsdale Dr., Suite A
 Monterey, California 93940-5786

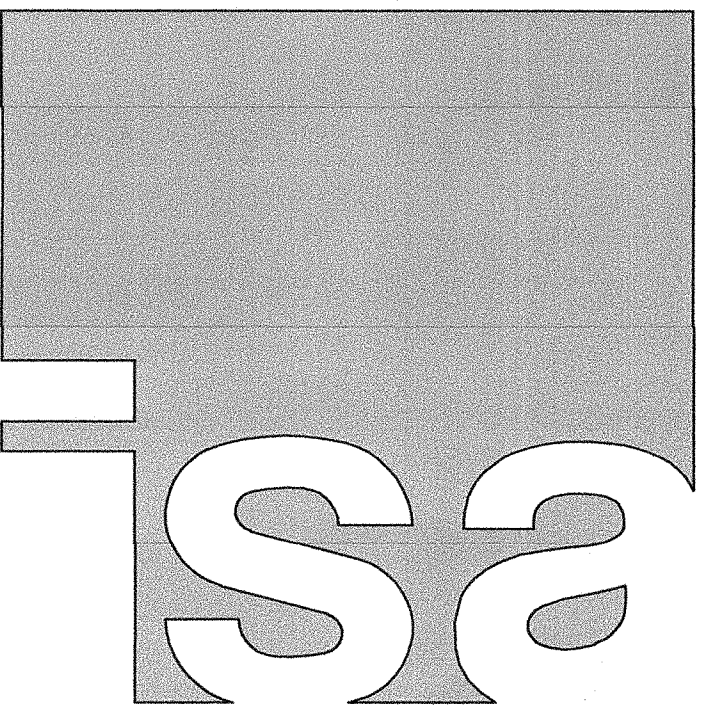
M2.3

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June 19, 2018 4:10:47 p.m.
DRAWING NO. M31059 FOR PROJECT NO. 1817
PROJECT: HVAC-MECHANICAL, WASH-BUILDING, WASH-BUILDING



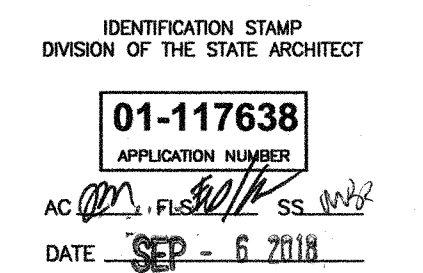
ROOF PLAN - MECHANICAL

SCALE: 1/8" = 1'-0"



IN STUDIO ARCHITECTURE
250 MAIN STREET
SALINAS, CA 93901
831.320.2655

DATES _____



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CLIENT

**GAVILAN JOINT
COMMUNITY
COLLEGE DISTRICT**



PROJECT

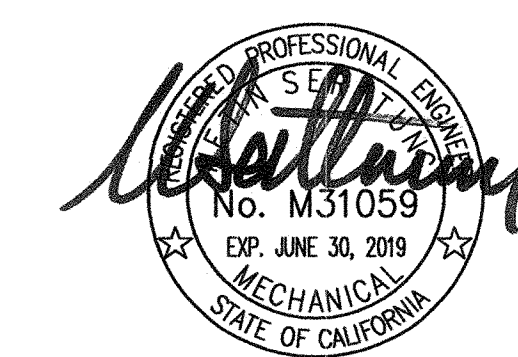
**HVAC
CLASSROOM**

**5055 SANTA TERESA BLVD
GILROY, CA**

SHEET

**ROOF PLAN -
MECHANICAL**

PROJECT NUMBER: 1817
ISSUED: SEP 6, 2018
DRAWN BY: CADD
CHECKED BY: MS
FILENAME: _____



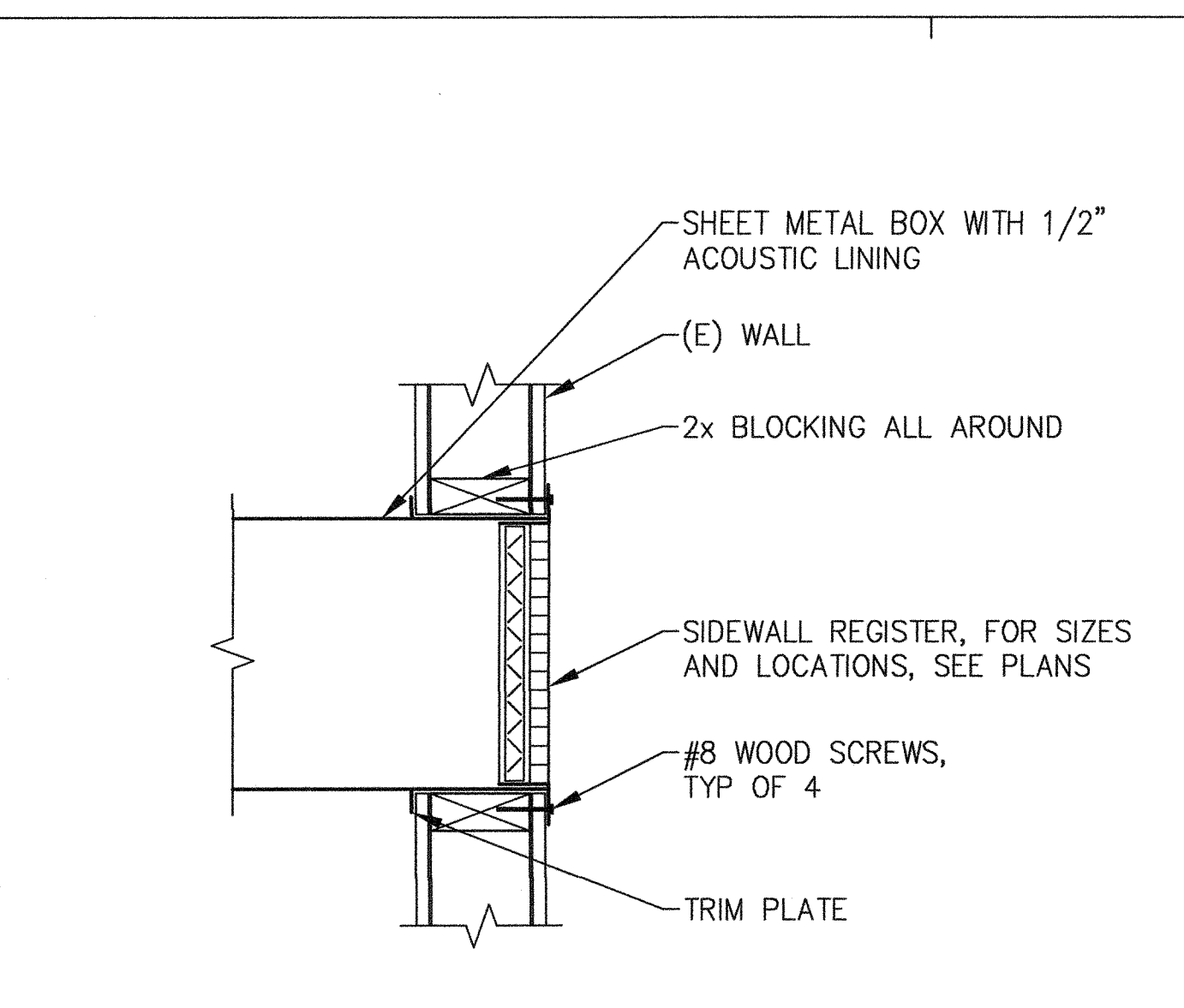
vc: (831) 649-8000 email: mail@axiomengineers.com
fx: (831) 649-8038

**AXIOM ENGINEERS
LEE & ASSOCIATES
CONSULTING ENGINEERS**

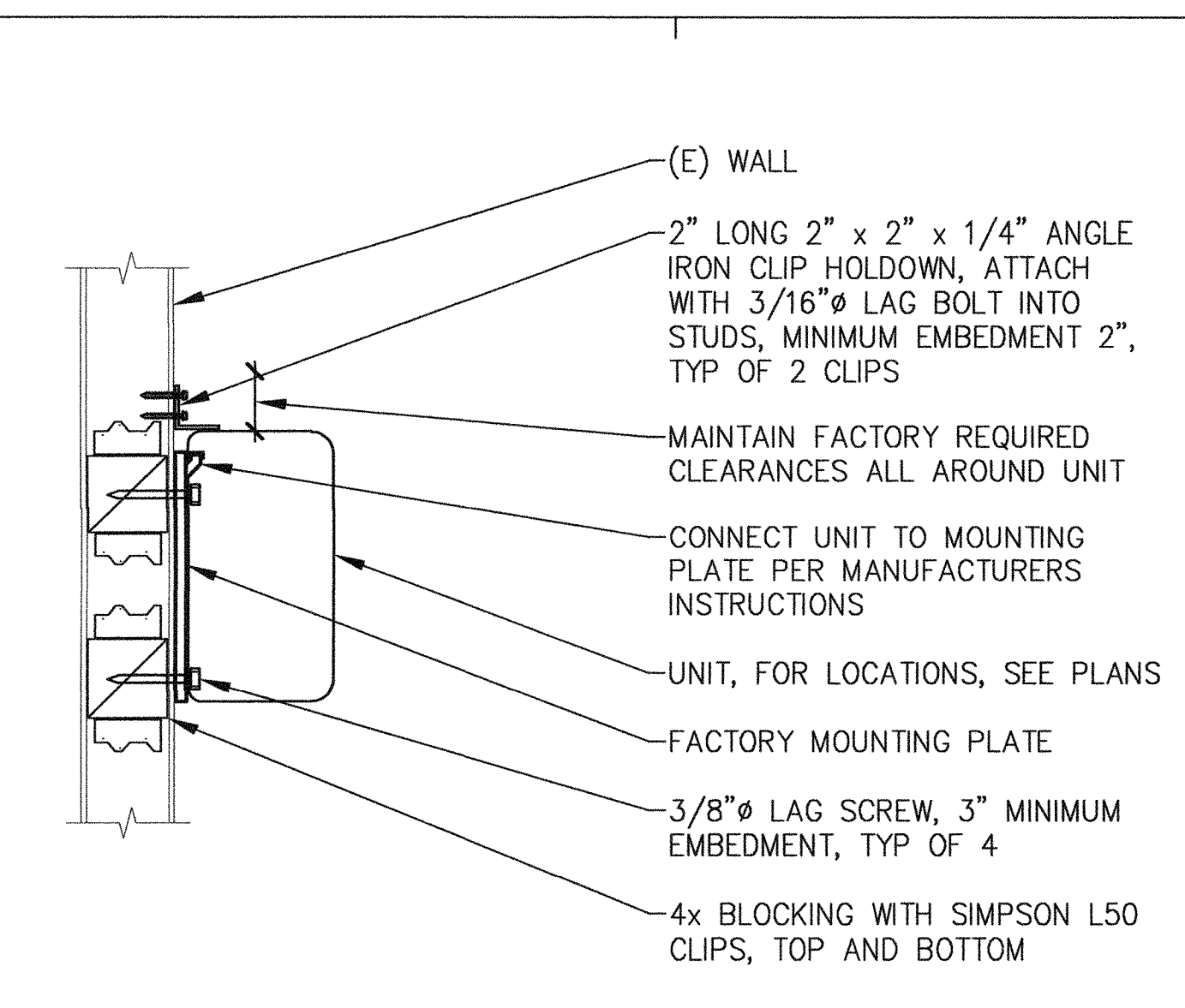
AC Project # : 20180056 22 Lower Rockdale Dr., Suite A
Monterey, California 93940-3768

M3.1

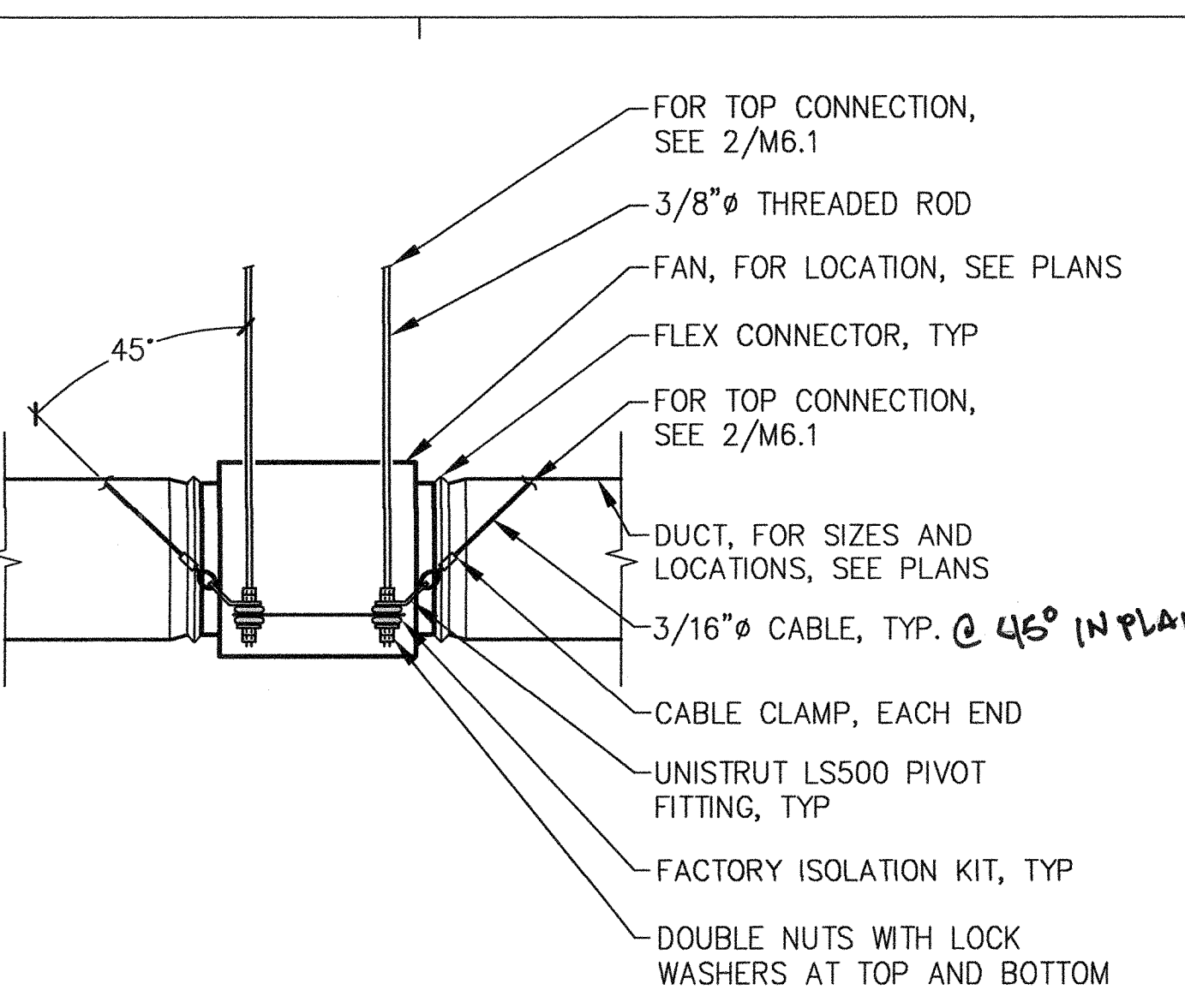
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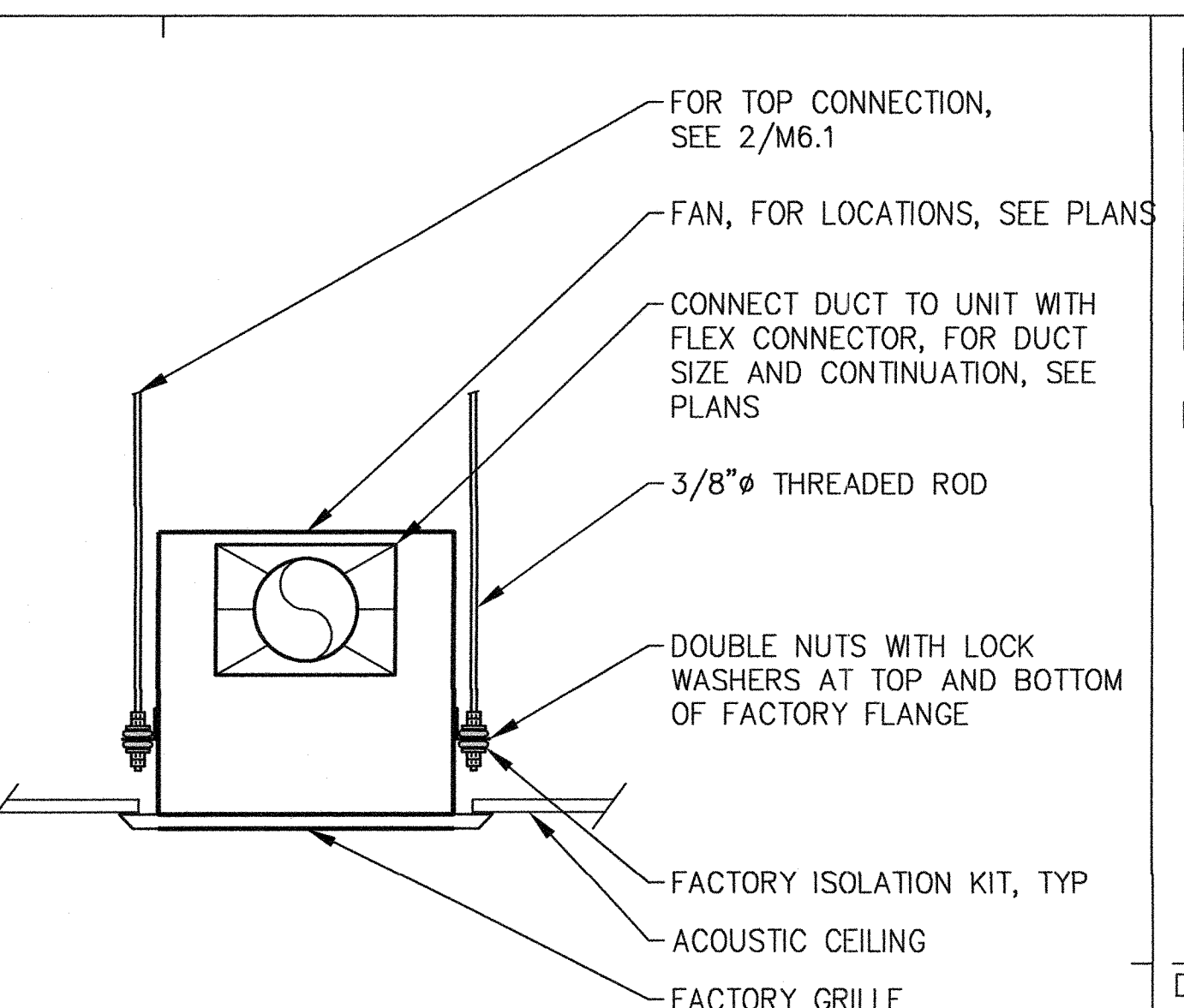
9 SIDEWALL MOUNTING
M6.1 NO SCALE



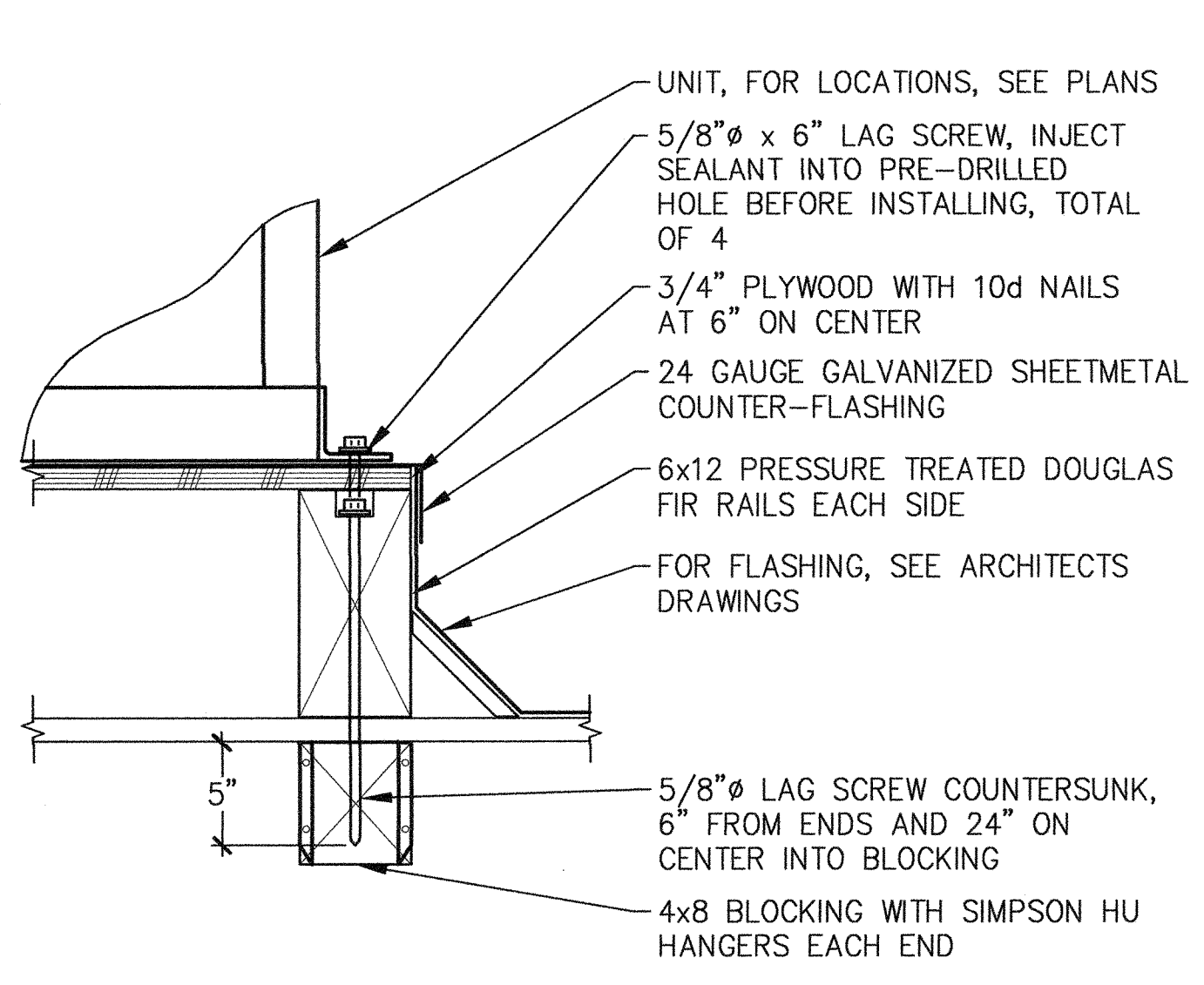
6 SPLIT SYSTEM MOUNTING
M6.1 NO SCALE



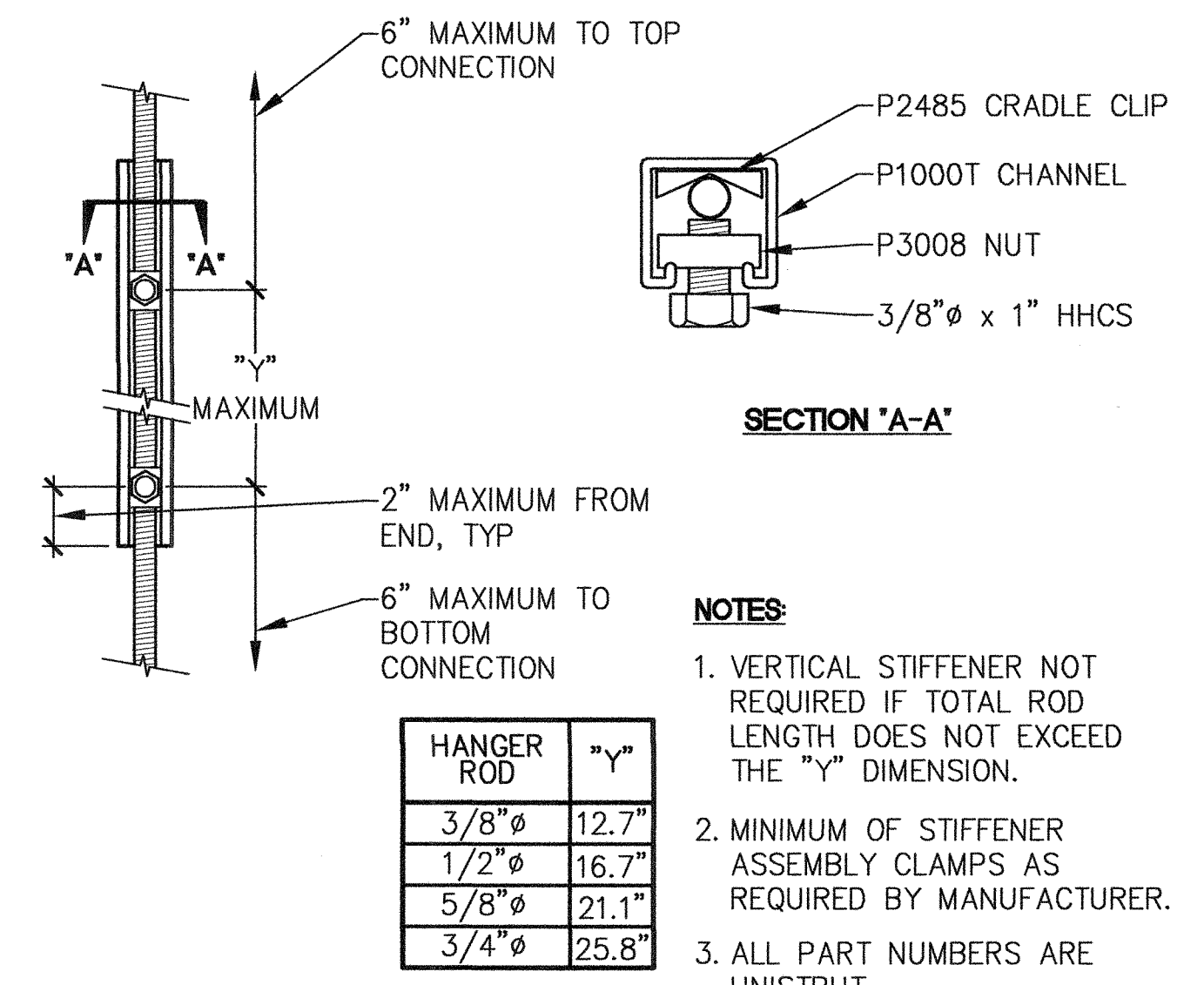
3 INLINE FAN MOUNTING
M6.1 NO SCALE



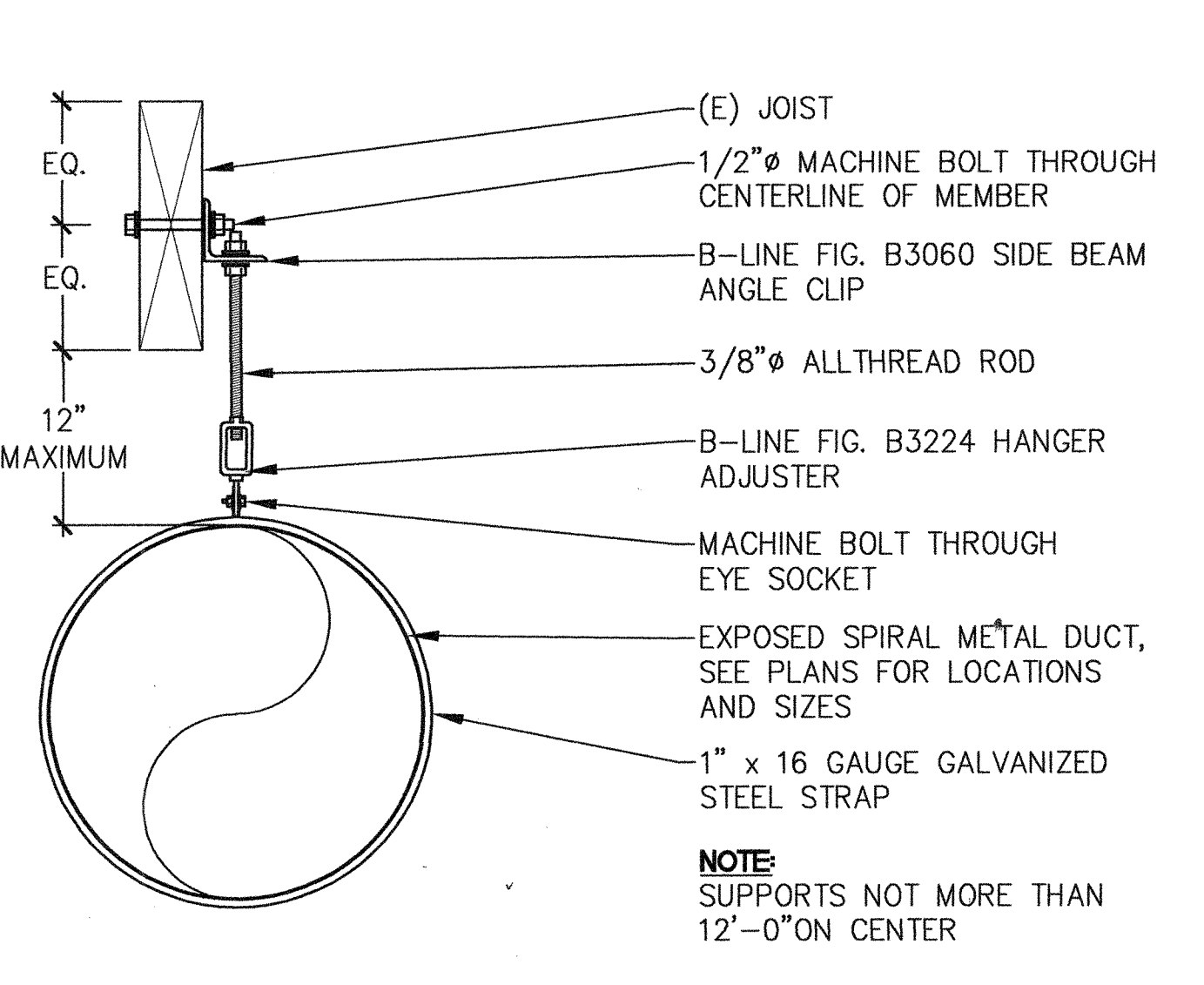
1 CEILING MOUNTED FAN
M6.1 NO SCALE



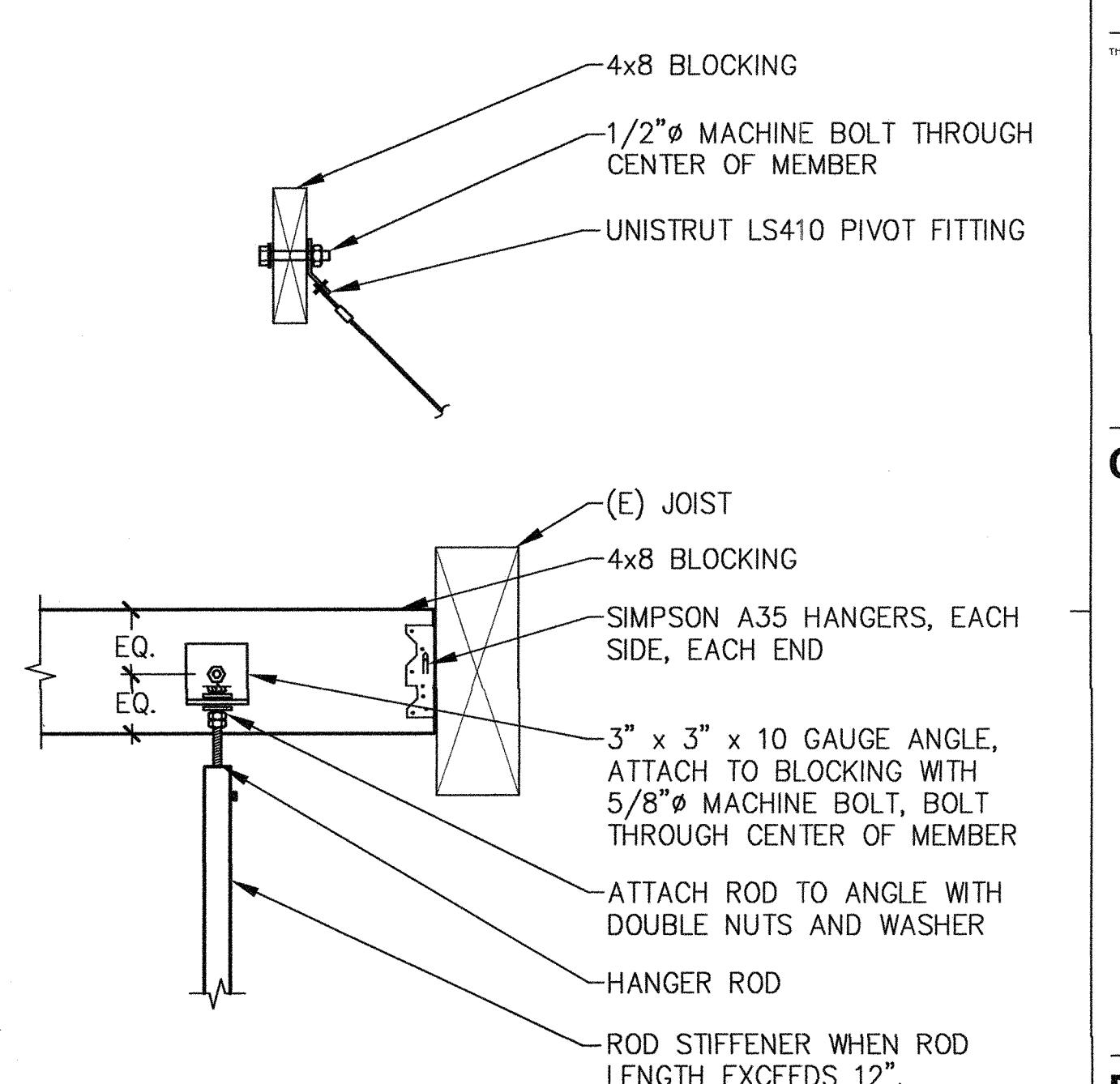
10 SPLIT SYSTEM MOUNTING
M6.1 NO SCALE



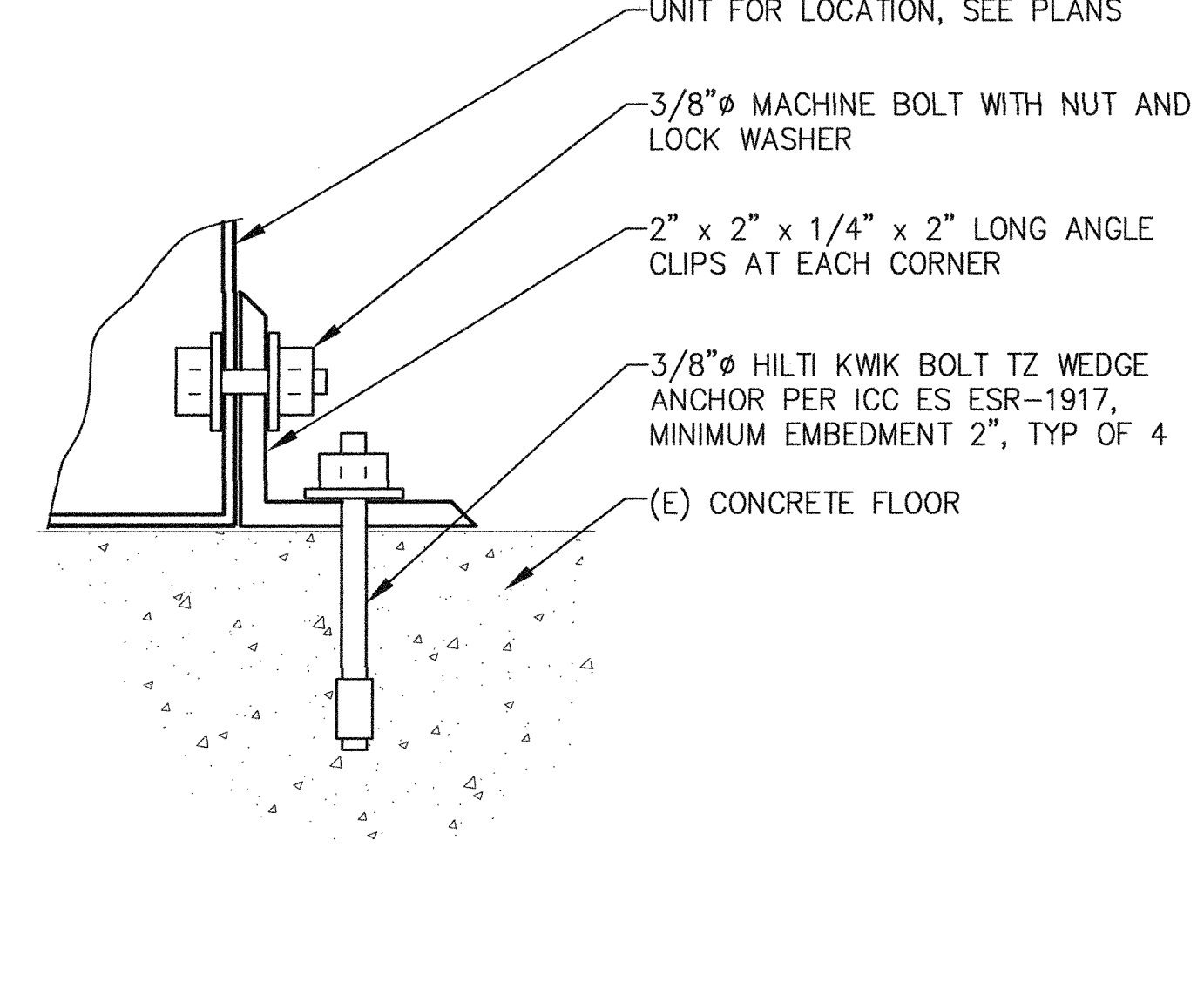
7 ROD STIFFENER
M6.1 NO SCALE



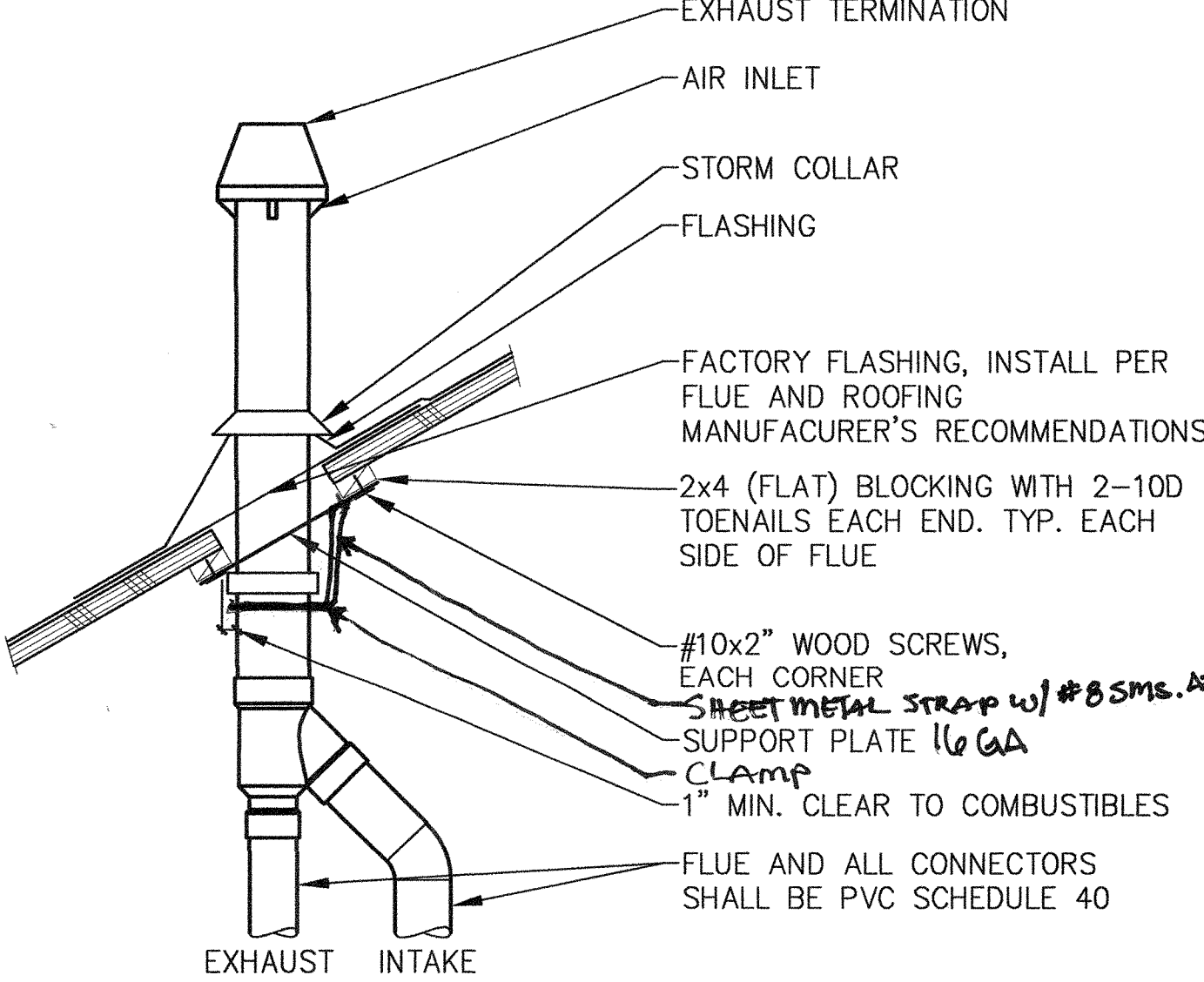
4 EXPOSED DUCT SUPPORT
M6.1 NO SCALE



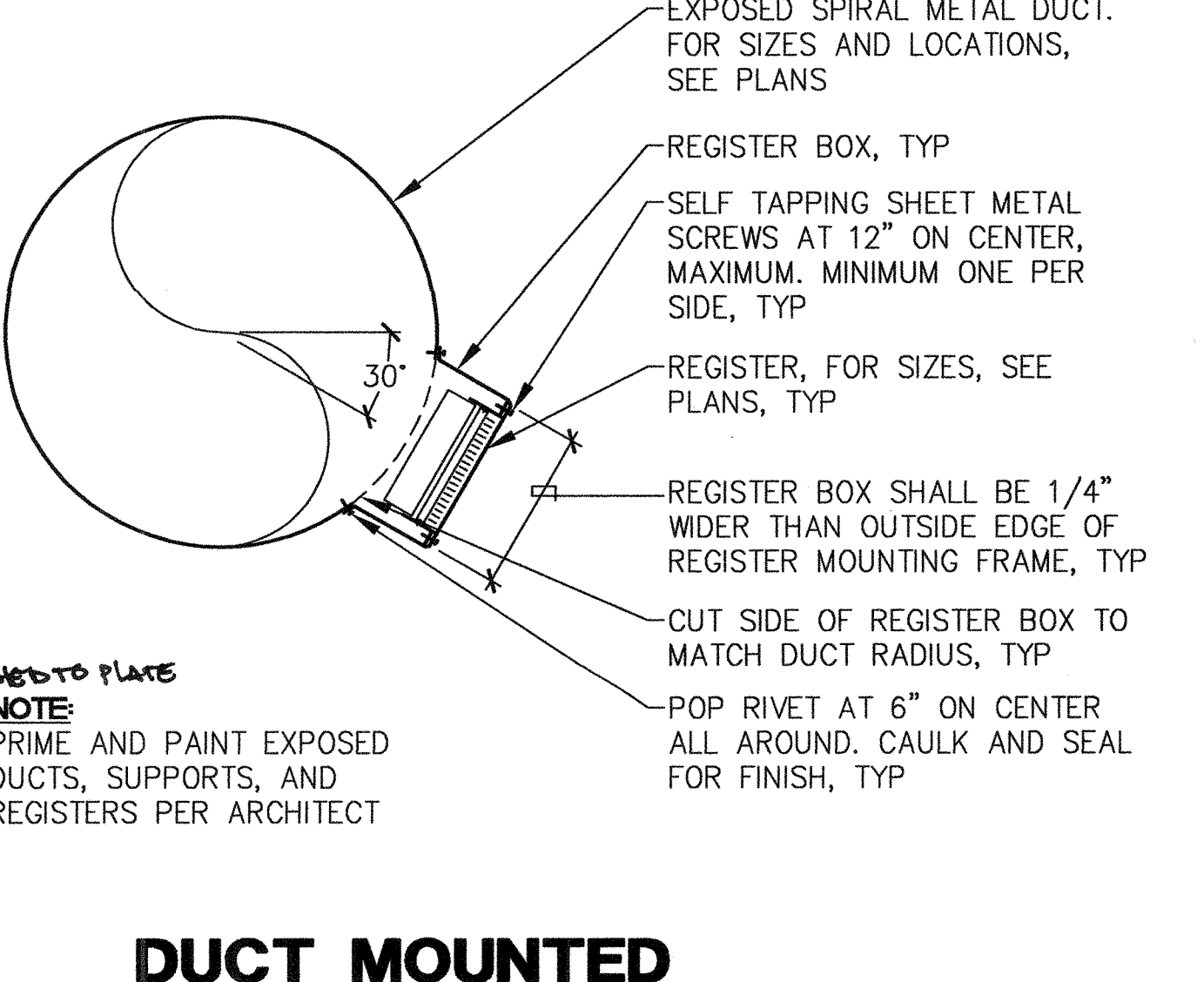
2 TOP CONNECTIONS
M6.1 NO SCALE



11 CONDENSING UNIT MOUNTING
M6.1 NO SCALE



8 CONCENTRIC FLUE THRU ROOF
M6.1 NO SCALE



5 DUCT MOUNTED SUPPLY DUFFUSER
M6.1 NO SCALE

IN STUDIO ARCHITECTURE
 250 MAIN STREET
 SALINAS, CA 93901
 831.320.2655

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT

01-117638
 APPLICATION NUMBER

AC: [Signature] FL: [Signature] SS: [Signature]
 DATE: SEP 6 2018

CLIENT
 GAVILAN JOINT
 COMMUNITY
 COLLEGE DISTRICT

**GAVILAN
 COLLEGE**

PROJECT
 HVAC
 CLASSROOM

5055 SANTA TERESA BLVD
 GILROY, CA

SHEET
 DETAILS -
 MECHANICAL

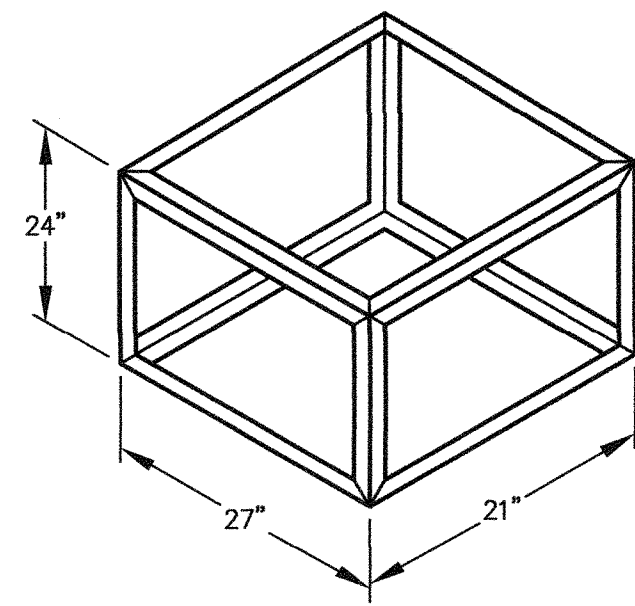
PROJECT NUMBER: 1817
 ISSUED: SEP 6, 2018
 DRAWN BY: CADD
 CHECKED BY: MS
 FILENAME:

AXIOM ENGINEERS
 LEE & ASSOCIATES
 CONSULTING ENGINEERS

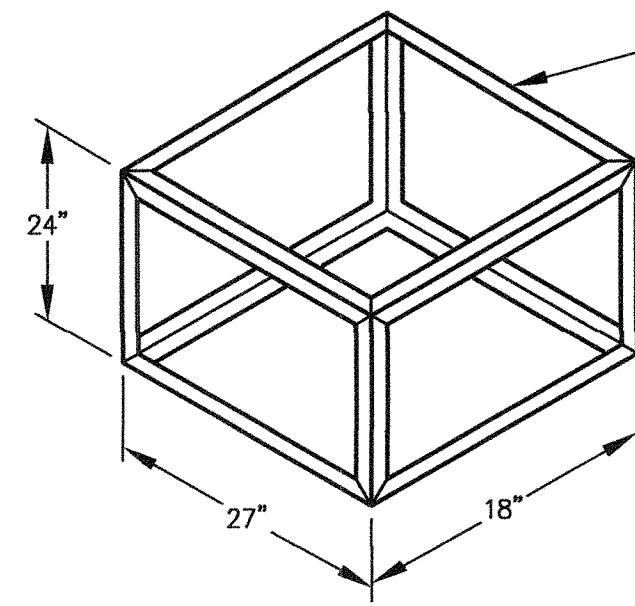
22 Lower Roadside Dr., Suite A
 Monterey, California 93940-5786

M6.1

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 Drawing: H:\PROJECTS\20180606\GAVILAN COLLEGE\HVAC\CLASSROOM\MECHANICAL\DETAILS\M6.2.MXD
 Date: 09-06-2018 09:11:00 AM
 User: DTC-MECHANICAL



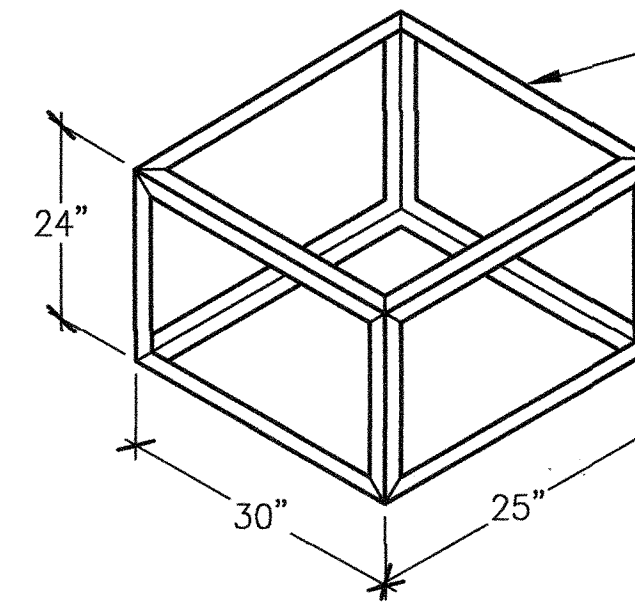
FRAME AT PLENUM FOR FC-1



FRAME AT PLENUM FOR FC-2

2" x 2" x 1/4" ANGLE FRAME, ALL WELDED, MITERED CORNERS
 3/16" TYP ALL JOINTS

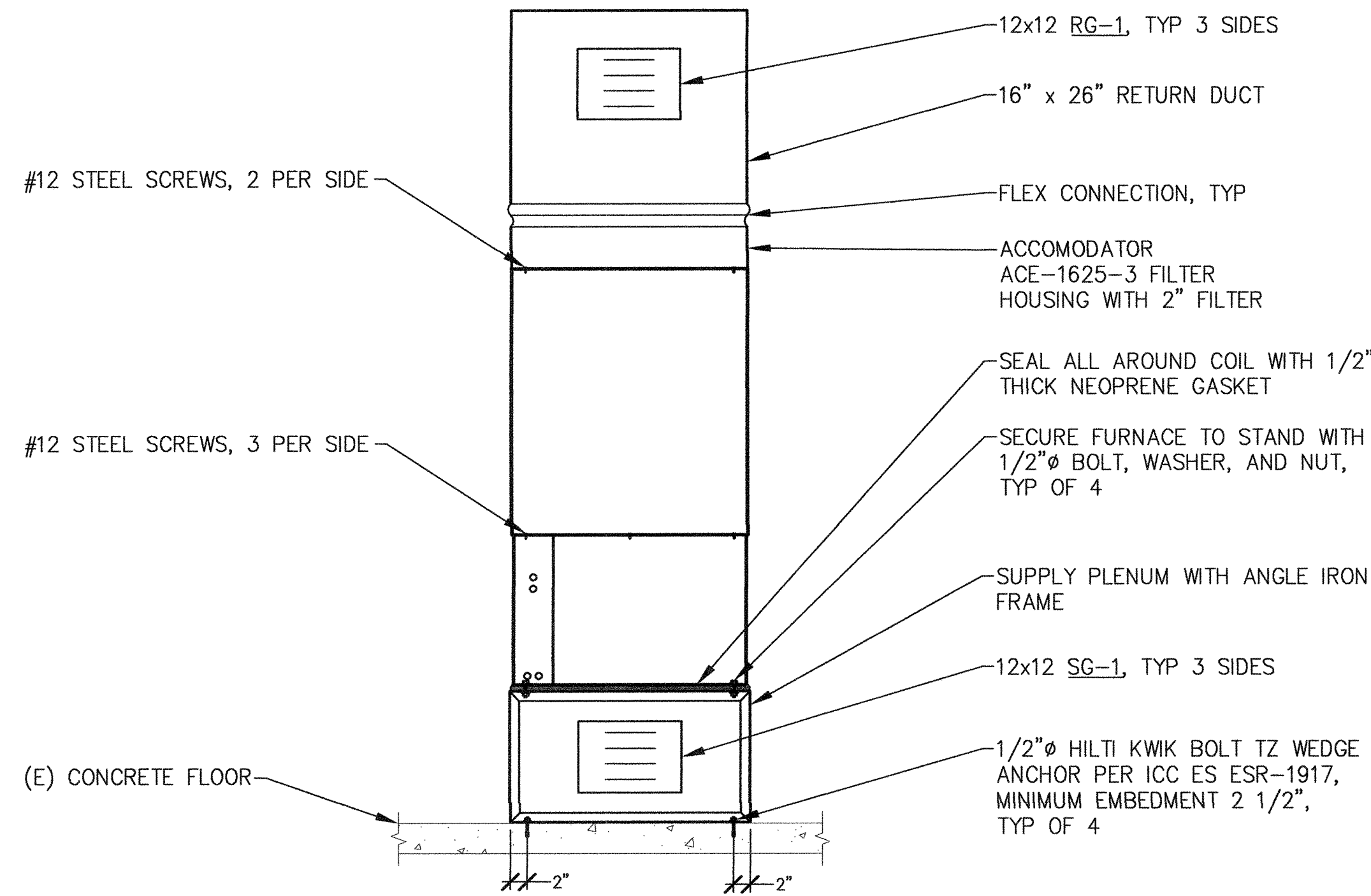
NOTE:
 FIELD VERIFY ALL DIMENSIONS.
 USE ASTM 36 STEEL. WELDING ELECTRODES TO CONFORM TO AWS REQUIREMENTS. WELDING TO COMPLY WITH THE REQUIREMENTS OF AWS D1.1



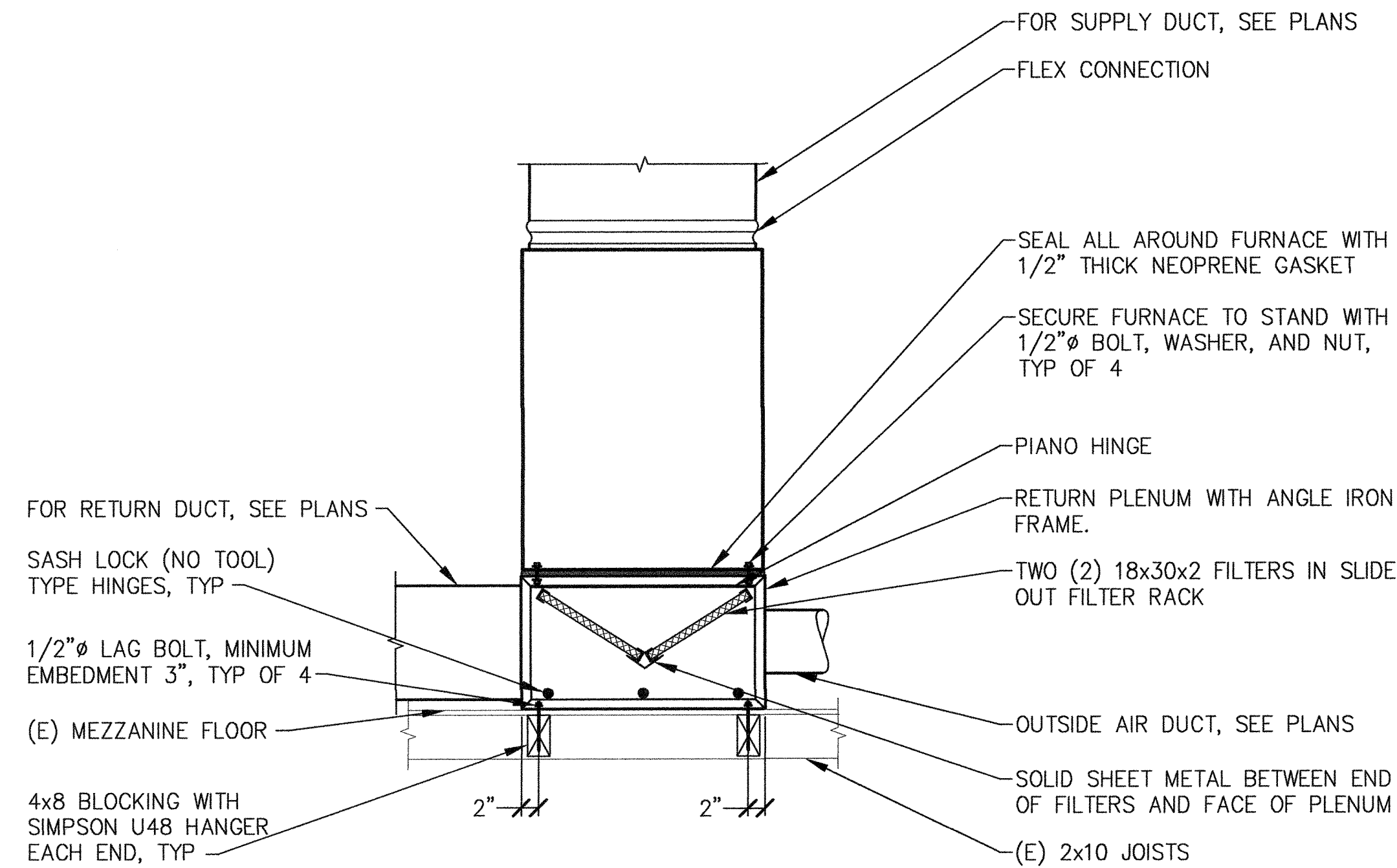
FRAME AT PLENUM

2" x 2" x 1/4" ANGLE FRAME, ALL WELDED, MITERED CORNERS
 3/16" TYP ALL JOINTS

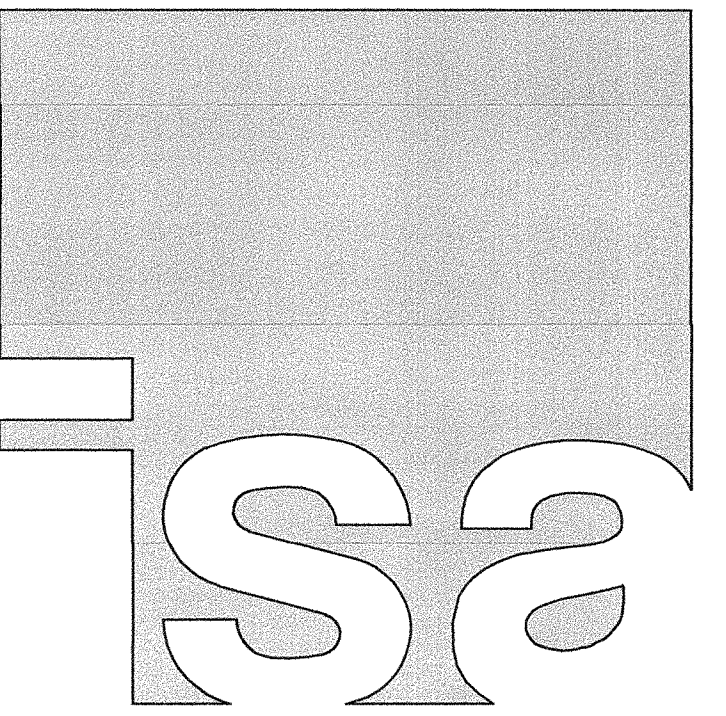
NOTE:
 FIELD VERIFY ALL DIMENSIONS.
 USE ASTM 36 STEEL. WELDING ELECTRODES TO CONFORM TO AWS REQUIREMENTS. WELDING TO COMPLY WITH THE REQUIREMENTS OF AWS D1.1



2 FURNACE AND COIL MOUNTING
 M6.2 NO SCALE



1 FURNACE MOUNTING
 M6.2 NO SCALE



IN STUDIO ARCHITECTURE
 250 MAIN STREET
 SALINAS, CA 93901
 831.320.2655

DATES

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT

01-117638
 APPLICATION NUMBER

AC: [Signature] FLS: [Signature] SS: [Signature]
 DATE: SEP - 6 2018

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CLIENT
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 COMMUNITY
 COLLEGE DISTRICT



PROJECT
 HVAC
 CLASSROOM

5055 SANTA TERESA BLVD
 GILROY, CA

SHEET
 DETAILS -
 MECHANICAL

PROJECT NUMBER: 1817
 ISSUED: SEP 6, 2018
 DRAWN BY: CADD
 CHECKED BY: MS
 FILENAME:



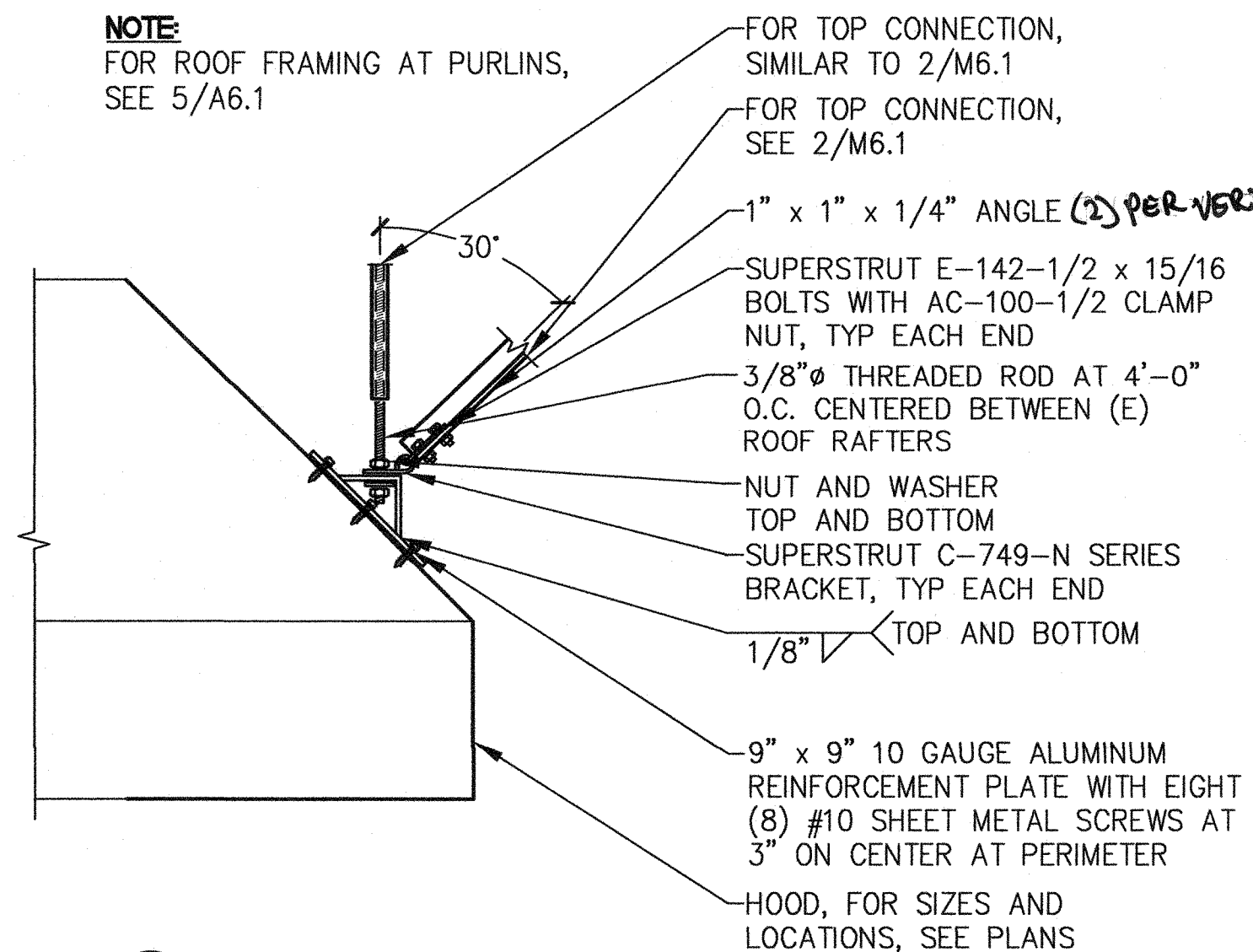
vc: (831) 649-8000 email: mail@axiomengineers.com
 fx: (831) 649-8038



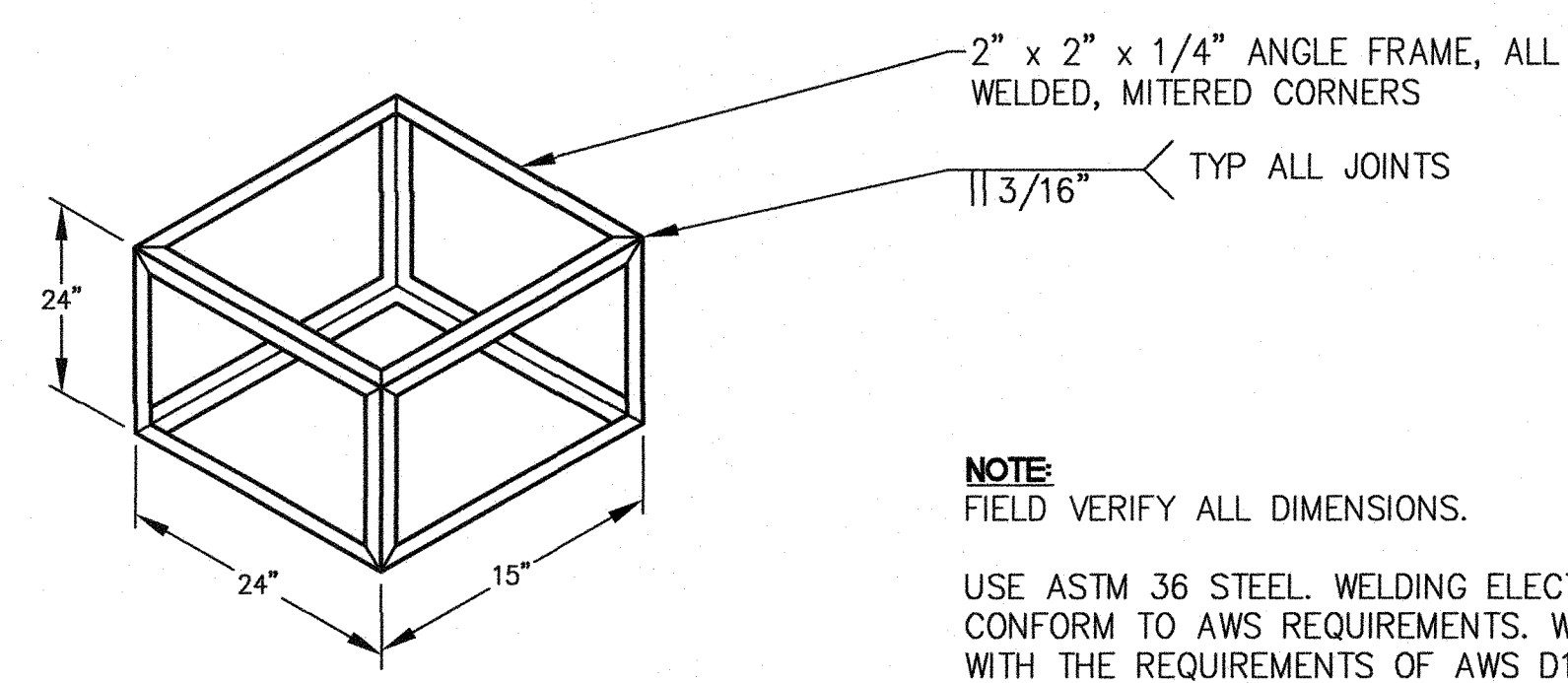
AE Project #: 20180056 22 Lower Ragsdale Dr., Suite A
 Monterey, California 93940-3768

M6.2

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 22 Lower Regatta Dr., Suite A
 Monterey, California 93940-5788
 Drawing: H:\PROJECTS\20180056\DRAWINGS\21-11-19\21-11-19-M6.3.DWG
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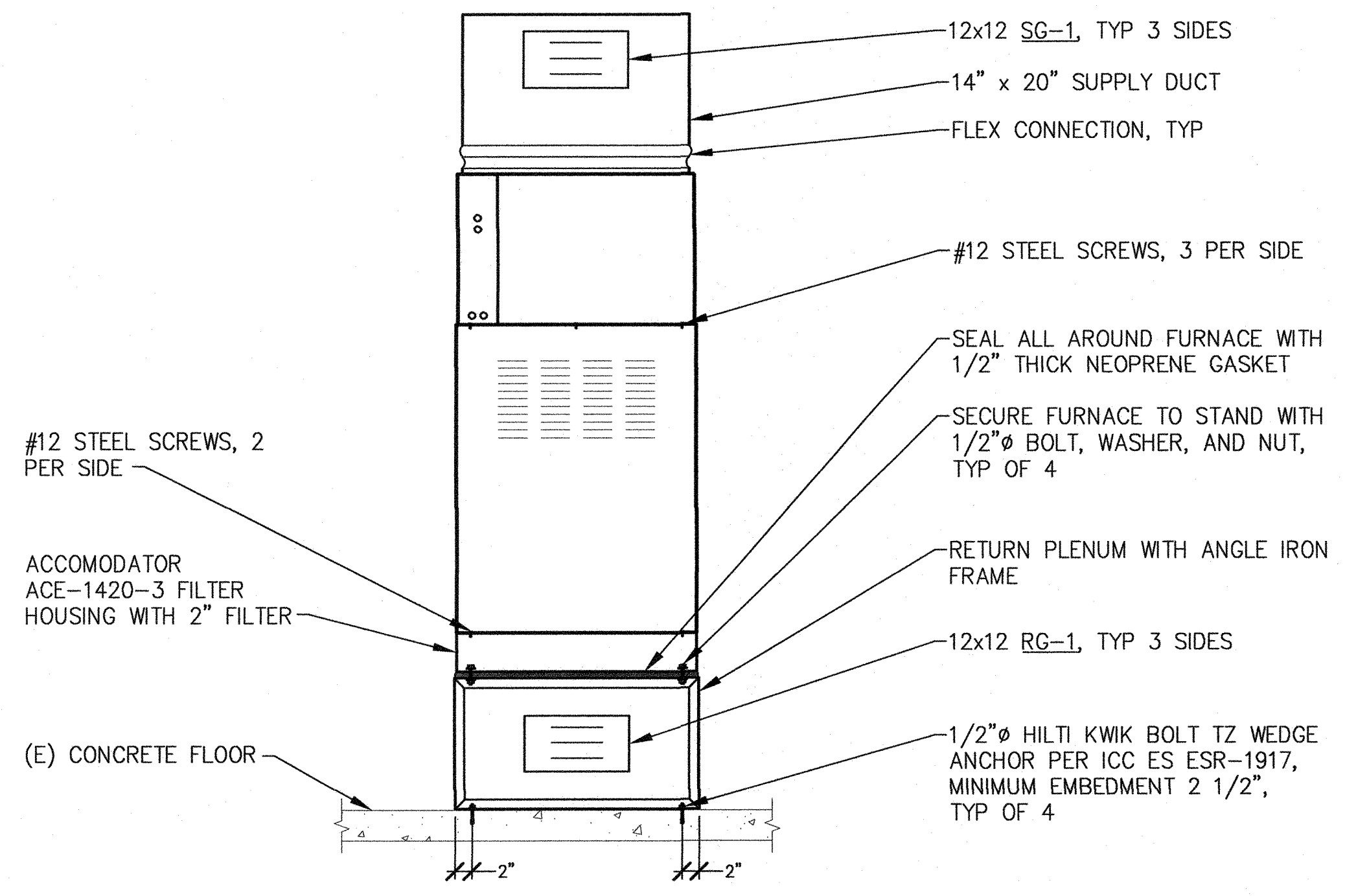


2 HOOD SUPPORT
 NO SCALE
 M6.3



NOTE:
 FIELD VERIFY ALL DIMENSIONS.
 USE ASTM 36 STEEL WELDING ELECTRODES TO CONFORM TO AWS REQUIREMENTS. WELDING TO COMPLY WITH THE REQUIREMENTS OF AWS D1.1

FRAME AT PLENUM



1 FURNACE AND COIL MOUNTING
 NO SCALE
 M6.3

IN STUDIO ARCHITECTURE
 250 MAIN STREET
 SALINAS, CA 93901
 831.320.2655

DATES _____

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 01-117638
 APPLICATION NUMBER
 AC 091 FL 001 SS 102
 DATE SEP 6 2018

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CLIENT
GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

GAVILAN COLLEGE

PROJECT
HVAC CLASSROOM
 5055 SANTA TERESA BLVD
 GILROY, CA

SHEET
DETAILS - MECHANICAL

PROJECT NUMBER: 1817
 ISSUED: SEP 6, 2018
 DRAWN BY: CADD
 CHECKED BY: MS
 FILENAME:



v. (831) 649-8000
 f. (831) 649-8038
 email: mail@axiomengineers.com
AXIOM ENGINEERS
 LEE & ASSOCIATES
 CONSULTING ENGINEERS
 AE Project #: 20180056
 22 Lower Regatta Dr., Suite A
 Monterey, California 93940-5788

M6.3

June 19, 2018 at 11:07 AM
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DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
 I certify that this Certificate of Compliance documentation is accurate and complete.

Documentation Author Name: Chahan Shah
 Signature Date: 06/19/2018
 Company: Axiom Engineers
 Address: 22 Lower Ragsdale Dr. Suite A
 City/State/Zip: Monterey, CA 93940
 Phone: 8316498000

RESPONSIBLE PERSON'S DECLARATION STATEMENT
 I certify the following under penalty of perjury, under the laws of the State of California:
 1. The information provided on this Certificate of Compliance is true and correct.
 2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance (responsible designer).
 3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
 4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
 5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Metin Serttunc
 Signature Date: 06/19/2018
 Company: Axiom Engineers
 Address: 22 Lower Ragsdale Dr. Suite A
 City/State/Zip: Monterey, CA 93940
 License: M-31059
 Phone: 8316498000

A. MECHANICAL COMPLIANCE DOCUMENTS & WORKSHEETS (check box if worksheet is included)
 For detailed instructions on the use of this and all Energy Efficiency Standards compliance forms, refer to the 2016 Nonresidential Manual
 Note: The Enforcement Agency may require all forms to be incorporated onto the building plans.

YES	NO	Comp. Doc./Worksheet #	Title
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-MCH-01-E (Part 1 of 3)	Certificate of Compliance, Declaration. Required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-MCH-01-E (Part 2 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-02-A to 11-A). Required on plans for all submittals.
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCC-MCH-01-E (Part 3 of 3)	Certificate of Compliance, Required Acceptance Tests (MCH-12-A to 18-A). Required on plans where applicable.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-MCH-02-E (Part 1 of 2)	Mechanical Dry Equipment Summary is required for all submittals with Central Air Systems. It is optional on plans.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-MCH-02-E (Part 2 of 2)	Mechanical Wet Equipment Summary is required for all submittals with chilled water, hot water or condenser water systems. It is optional on plans.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-MCH-03-E	Mechanical Ventilation and Reheat is required for all submittals with multiple zone heating and cooling systems. It is optional on plans.
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-MCH-07-E (Part 1 of 2)	Power Consumption of Fans. Required on plans where applicable
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCC-MCH-07-E (Part 2 of 2)	Power Consumption of Fans, Declaration. Required on plans where applicable

B. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required compliance documents)
 Test Performed By:

Designer:
 This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.

Installing Contractor:
 The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.

Enforcement Agency:
 Plancheck - The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked.
 Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description	MCH-02-A	MCH-03-A	MCH-04-A	MCH-05-A	MCH-06-A	MCH-07-A	MCH-08-A	MCH-09-A	MCH-10-A	MCH-11-A	
Equipment Requiring Testing or Verification	# of Units	Outdoor Air	Single Zone Unitary	Air Distribution Ducts	Economizer Controls	Demand Controlled Ventilation (DCV)	Supply Fan VAV	Valve Leakage Test	Supply Water Temp. Reset	Hydronic System Variable Flow Control	Automatic Demand Shed Control
Gas-Fired Furnace	1	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Split Systems	3	<input type="checkbox"/>	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>

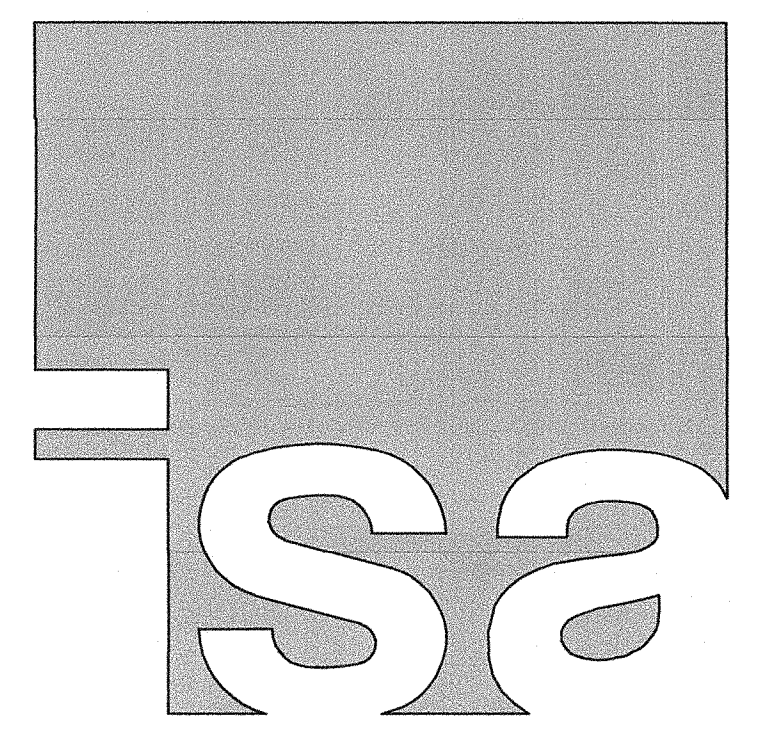
C. MECHANICAL HVAC ACCEPTANCE FORMS (check box for required compliance documents)
 Test Performed By:

Designer:
 This compliance document is to be used by the designer and attached to the plans. Listed below are all the acceptance tests for HVAC systems. The designer is required to check the applicable boxes for all acceptance tests that apply and list all equipment that requires an acceptance test. All equipment of the same type that requires a test, list the equipment description and the number of systems.

Installing Contractor:
 The contractor who installed the equipment is responsible to either conduct the acceptance test themselves or have a qualified entity run the test for them. If more than one person has responsibility for the acceptance testing, each person shall sign and submit the Certificate of Acceptance applicable to the portion of the construction or installation for which they are responsible.

Enforcement Agency:
 Plancheck - The NRCC-MCH-01-E compliance document is not considered a completed document and is not to be accepted by the building department unless the correct boxes are checked.
 Inspector - Before occupancy permit is granted all newly installed process systems must be tested to ensure proper operations.

Test Description	MCH-12-A	MCH-13-A	MCH-14-A	MCH-15-A	MCH-16-A	MCH-17-A	MCH-18-A	
Equipment Requiring Testing or Verification	# of Units	Fault Detection & Diagnostics for DX Units	Automatic Fault Detection & Diagnostics for Air & Zone	Distributed Energy Storage DX AC Systems	Thermal Energy Storage (TES) Systems	Supply Air Temperature Reset Controls	Condenser Water Reset Controls	ECMS
Gas-Fired Furnace	1	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>
Split Systems	3	<input checked="" type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>	<input type="checkbox"/>



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 250 MAIN STREET
 SALINAS, CA 93901
 831.320.2655

DATES

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 APPLICATION NUMBER: 01-117638
 DATE: SEP - 6 2018

CLIENT
 GAVILAN JOINT
 COMMUNITY
 COLLEGE DISTRICT



PROJECT
 HVAC
 CLASSROOM

5055 SANTA TERESA BLVD
 GILROY, CA

SHEET
 TITLE 24
 DOCUMENTATION
 - MECHANICAL

PROJECT NUMBER: 1817
 ISSUED: SEP 6, 2018
 DRAWN BY: CADD
 CHECKED BY: MS
 FILENAME:



tel: (831) 649-8000
 fax: (831) 649-8038
 email: mail@axiomengineers.com

AXIOM ENGINEERS
 LEE & ASSOCIATES
 CONSULTING ENGINEERS

AE Project #: 20180056
 22 Lower Ragsdale Dr., Suite A
 Monterey, California 93940-5788

M7.1

PLUMBING CONNECTIONS/FIXTURE LIST

FIXT. NO.	FIXTURE	MAKE & MODEL	MIN BRANCH SIZE				REMARKS
			W	V	CW	HW	
FS-1	FLOOR SINK	ZURN 21900	2"	1 1/2"	-	-	(1)

(1) FOR MOUNTING, SEE 3/P0.1

GENERAL NOTES:

- THIS PROJECT IS A REMODEL. THE PLANS AND SPECIFICATIONS INDICATE THE GENERAL EXTENT OF THE WORK BASED ON OWNER PROVIDED RECORD DRAWINGS AND LIMITED FIELD VERIFICATION. CONTRACTOR SHALL VISIT SITE, VERIFY EXISTING CONDITIONS, AND REPORT ANY DISCREPANCIES NOTED TO THE ARCHITECT PRIOR TO SUBMITTING A BID. CONTRACTOR SHALL BE RESPONSIBLE FOR THE DISCONNECTION AND RECONNECTION OF MECHANICAL, PLUMBING, AND ELECTRICAL SYSTEMS NECESSARY TO ACCOMPLISH THE WORK WHETHER OR NOT SPECIFIED AND/OR INDICATED.
- ASBESTOS ABATEMENT BY OTHERS ON THIS PROJECT. ANY REQUIRED ASBESTOS ABATEMENT WORK WILL BE PROVIDED BY OTHERS. AREAS SUSPECTED OF ASBESTOS CONTAMINATION WHICH INTERFERE WITH WORK UNDER THIS PROJECT SHALL BE IDENTIFIED DURING THE EARLY PHASES OF CONSTRUCTION IN ORDER TO PROVIDE FOR TIMELY DISPOSITION. NO DELAYS IN CONSTRUCTION SCHEDULE WILL BE ALLOWED DUE TO IMPROPER COORDINATION.
- PLUMBING CONTRACTOR SHALL NOTIFY GENERAL CONTRACTOR TO REPAIR WALL, FLOOR, AND CEILING SURFACES AS REQUIRED DUE TO DEMOLITION OR INSTALLATION WORK.
- REMOVE ALL ABANDONED PIPING, EQUIPMENT, AND FIXTURES INTERFERING WITH NEW WORK WHETHER NEW WORK IS ARCHITECTURAL, STRUCTURAL, MECHANICAL, OR ELECTRICAL.
- ABANDON IN PLACE ALL PIPING NOT INTERFERING WITH NEW WORK UNLESS REQUIRED FOR CONTINUED SERVICE.
- CONTRACTOR SHALL SAW-CUT SLAB AS REQUIRED FOR INSTALLATION OF WASTE AND VENT PIPING BELOW FLOOR.
- CUTTING OR CORING OF STRUCTURAL MEMBERS OR FOOTINGS IS PROHIBITED WITHOUT THE PRIOR WRITTEN CONSENT OF THE STRUCTURAL ENGINEER AND THE ARCHITECT.
- CONTRACTOR SHALL VERIFY THAT THE ELECTRICAL CONNECTIONS TO THE UNITS, INCLUDING CIRCUIT PROTECTION, CONFORM TO UNIT LABELS AND MANUFACTURER'S DIRECTIONS. WHERE WIRE SIZES SHOWN ON DRAWING EXCEED MANUFACTURER'S RECOMMENDATIONS, THE DRAWINGS SHALL GOVERN. ALL WIRING SHALL BE PER THE NATIONAL ELECTRICAL CODE.
- ALL CONTROL WIRING SHALL BE IN CONDUIT. CONDUIT SHALL BE PROVIDED AND INSTALLED BY THE PLUMBING CONTRACTOR.
- FLASHING AND WEATHERPROOFING AT EXTERIOR PENETRATIONS ARE SHOWN ON THE ARCHITECTURAL DRAWINGS.
- COORDINATE WITH OWNER ON SPACE REQUIRED AND TIME SCHEDULE FOR DELIVERY OF ALL ITEMS WHICH ARE TO BE GIVEN TO THE OWNER FOR HIS DISPOSITION.
- FOR ROOF PENETRATIONS WITHOUT CURBS, PROVIDE WEATHERPROOF FLASHING PER SMACNA ARCHITECTURAL SHEET METAL MANUAL AND DRAWING NOTES.
- LABEL ALL PIECES OF EQUIPMENT WITH MARK MATCHING SCHEDULE OR EQUIPMENT LIST WITH ENGRAVED PLASTIC LABELS WITH MINIMUM 1/4" HIGH LETTERS. LABELS EXPOSED TO WEATHER SHALL BE ENGRAVED BRASS.
- PRIME AND PAINT ALL EXPOSED PIPING PER ARCHITECTURAL SPECIFICATIONS. PAINT SHALL NOT EXCEED THE FOLLOWING VOLATILE ORGANIC COMPOUND CONTENT LIMITS: FLATS < 50 GRAMS PER LITER, NON-FLATS < 100 GRAMS PER LITER.
- COORDINATE WITH ELECTRICAL ON REQUIRED POWER OUTLETS AND LIGHT SWITCHES NEAR PLUMBING EQUIPMENT.
- BRACE ALL GAS PIPING THAT IS 1" NOMINAL OR LARGER. BRACE ALL PIPING IN MECHANICAL ROOMS THAT IS 1 1/4" NOMINAL OR LARGER. BRACE ALL PIPING 2 1/2" NOMINAL OR LARGER. PIPING SUSPENDED BY INDIVIDUAL HANGERS 12" OR LESS IN LENGTH, AS MEASURED FROM THE TOP OF THE PIPE TO THE BOTTOM OF THE SUPPORT WHERE THE HANGER IS ATTACHED, NEED NOT BE BRACED.
- ALL PIPING, VALVES, EQUIPMENT, ETC. SHOWN IS NEW UNLESS OTHERWISE NOTED.

PLUMBING GENERAL NOTES:

- SEE ARCHITECTS PLANS AND DETAILS FOR ACCESSIBLE PLUMBING FIXTURE MOUNTING LOCATIONS, HEIGHTS, CLEARANCES, ETC.
- ACCESSIBLE FIXTURES SHALL HAVE LEVER OR PUSH TYPE OPERATORS THAT REQUIRE LESS THAN FIVE (5) POUNDS FORCE TO ACTIVATE.
- OPERATING CONTROLS FOR ACCESSIBLE FIXTURES TO BE OPERABLE WITH ONE HAND, NO TIGHT GRASPING, PINCHING OR TWISTING OF THE WRIST.
- FAUCETS WITH SELF-CLOSING VALVES SHALL REMAIN OPEN FOR NO LESS THAN 10 SECONDS AND NO MORE THAN 15 SECONDS.
- INSULATE ALL PIPING UNDER ACCESSIBLE FIXTURES AND COVER ANY SHARP OR ABRASIVE SURFACES WITH PROTECTIVE PIPE COVERS.
- ALL PLUMBING VENTS THROUGH ROOF SHALL OFFSET ABOVE CEILING AND NOT PENETRATE WALL TOP PLATE.
- MAXIMUM DEPTH OF ACCESSIBLE SINKS SHALL BE 6 1/2".

LIST OF GOVERNING CODES:

- 2016 BUILDING STANDARDS ADMINISTRATIVE CODE, PART 1, TITLE 24, C.C.R.
 - 2016 CALIFORNIA BUILDING CODE (CBC), PART 2, TITLE 24, C.C.R.
 - 2016 CALIFORNIA ELECTRICAL CODE, PART 3, TITLE 24, C.C.R.
 - 2016 CALIFORNIA MECHANICAL CODE (CMC), PART 4, TITLE 24, C.C.R.
 - 2016 CALIFORNIA PLUMBING CODE (CPC), PART 5, TITLE 24, C.C.R.
 - 2016 CALIFORNIA ENERGY CODE (CEC), PART 6, TITLE 24, C.C.R.
 - 2016 CALIFORNIA FIRE CODE (CFC), PART 9, TITLE 24, C.C.R.
 - 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE, PART 11, TITLE 24, C.C.R.
 - 2016 CALIFORNIA REFERENCED STANDARDS CODE, PART 12, TITLE 24, C.C.R.
 - TITLE 19, C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- ALL SECTION NUMBERS BELOW REFER TO GROUP 1, CHAPTER 4, PART 1, TITLE 24, C.C.R.
- ADDENDA, CONSTRUCTION CHANGES PER SECTION 4-338.
 - INSPECTOR APPROVED BY DSA. INSPECTOR AND CONTINUOUS INSPECTION OF WORK PER SECTION 4-333(b) AND 4-342.
 - TESTS AND TESTING LABORATORY PER SECT. 4-335.
 - SPECIAL INSPECTION PER SECT. 4-333(c).
 - CONTRACTOR SHALL SUBMIT VERIFIED REPORTS PER SECT. 4-336 AND 4-343(c).
 - ADMINISTRATION OF CONSTRUCTION PER PART 1, TITLE 24, C.C.R. - DUTIES OF ARCHITECT, STRUCTURAL ENGINEER OR PROFESSIONAL ENGINEER PER SECT. 4-333(a) AND 4-341.
 - GOVERNING CODES: TITLE 24.
 - A COPY OF PARTS 1, 2, 3, 4, AND 5 OF TITLE 24 SHALL BE KEPT AVAILABLE IN THE FIELD DURING CONSTRUCTION.
 - DSA SHALL BE NOTIFIED OF START OF CONSTRUCTION PER SECT. 4-331.
 - SUPERVISION BY THE OFFICE OF REGULATION SERVICE PER SECT. 4-334.
 - SEE SHEET T1 FOR GOVERNING CODES NOT NOTED HERE.

PLUMBING LEGEND

SYMBOL	ABBREV.	IDENTIFICATION	ABBREV.	IDENTIFICATION
--- CW		COLD WATER (DOMESTIC)	COORD	COORDINATE
--- HW		HOT WATER	DN	DOWN
--- HWR		HOT WATER RETURN	DWGS	DRAWINGS
---		V	(E)	EXISTING
---		G	MIN	MINIMUM
--- S OR W		SOIL OR WASTE ABOVE GRADE	(N)	NEW
--- W		SOIL OR WASTE BELOW GRADE	VTR	VENT THROUGH ROOF
—		RISE UP	W/	WITH
—		ELL		ELBOW DOWN
—		TEE		TEE DOWN
—		ELL		ELBOW DOWN
—		TEE		TEE DOWN
—		CONT		CONTINUATION
—		BALL VALVE		
—		UNION		
—		WHA		WATER HAMMER ARRESTOR
—		HB		HOSE BIBB
—		GCO/FCO		GRADE CLEAN-OUT/FLOOR CLEAN-OUT
—		WCO		WALL CLEAN-OUT
—		THERMOMETER		
—		P.O.C.		POINT OF CONNECTION

DSA GENERAL NOTES

- THE INTENT OF THE CONTRACT DOCUMENTS IS TO MODERNIZE AN EXISTING BUILDING. SHOULD ANY CONDITIONS DEVELOP NOT COVERED BY THE CONTRACT DOCUMENTS, A CONSTRUCTION CHANGE DOCUMENT DETAILING AND SPECIFYING THE REQUIRED WORK SHALL BE SUBMITTED TO AND APPROVED BY DSA BEFORE PROCEEDING WITH THE WORK.
- THE SEISMIC SUPPORT AND ANCHORAGE OF THE EQUIPMENT DESCRIBED ON THESE DRAWINGS HAVE BEEN ENGINEERED BY THE ENGINEER OF RECORD FOR CONFORMANCE WITH APPROPRIATE BUILDING CODES. THE ENGINEER OF RECORD WAS NOT RESPONSIBLE FOR THE EQUIPMENT DESIGN.
- ALL MECHANICAL AND PLUMBING EQUIPMENT SHALL BE BRACED OR ANCHORED TO RESIST A HORIZONTAL FORCE ACTING IN ANY DIRECTION USING THE CRITERIA FROM CHAPTER 16A CALIFORNIA BUILDING CODE (CBC) 2016.
- WHERE ANCHORAGE DETAILS ARE NOT SHOWN ON THE DRAWINGS, THE FIELD INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER AND THE FIELD REPRESENTATIVE OF THE DIVISION OF THE STATE ARCHITECT.

COMPONENT ANCHORAGE NOTES

- ALL MECHANICAL AND PLUMBING COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTIONS 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTERS 13, 26, AND 30.
- ALL PERMANENT EQUIPMENT AND COMPONENTS.
 - TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (EG HARD WIRED) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICAL, GAS, OR WATER.
 - MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HOURS AND HEAVIER THAN 400 POUNDS OR HAS A CENTER OF MASS LOCATED 4 FEET OR MORE ABOVE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE COMPONENT IS REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED ON THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING, AND CONDUIT.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVING A CENTER OF MASS LOCATED 4'-0" OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORTS THE EQUIPMENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATION SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

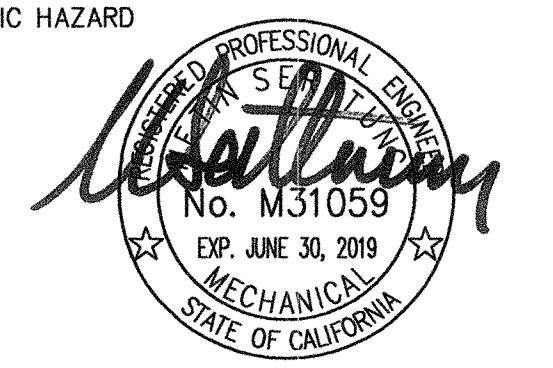
PIPING AND DUCTWORK DISTRIBUTION SYSTEM BRACING NOTES

PIPING AND DUCTWORK DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.5.6, 13.6.7, 13.6.8, AND 2016 CBC, SECTIONS 1616A1.24, 1616A1.25, AND 1616A1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON A PREAPPROVED INSTALLATION GUIDE (E.G., SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), AND PLUMBING PIPING (PP)

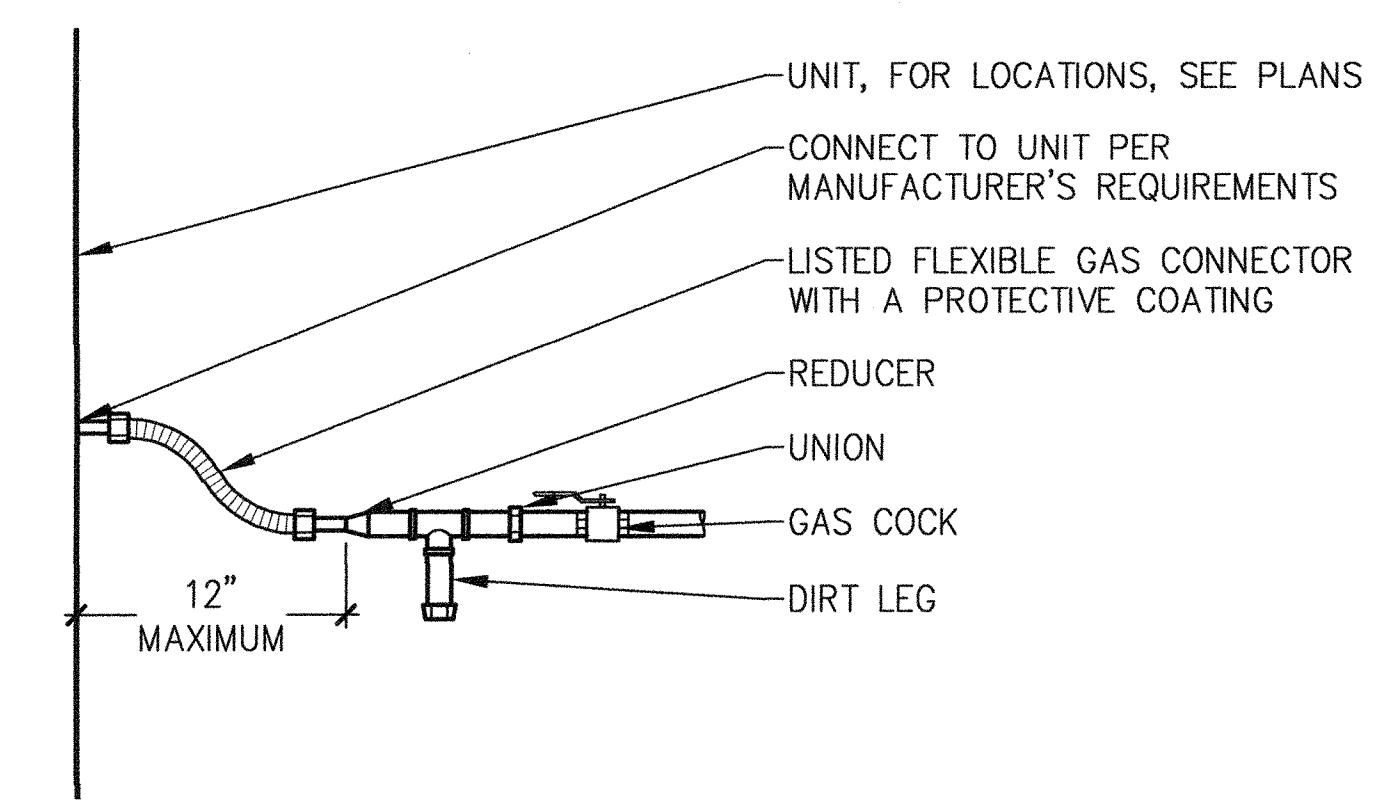
- MP MD PP OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
- MP MD PP OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PREAPPROVAL (OPM-) #0043-13
- MP MD PP OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING ANY ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL A AND CONNECTION LEVEL 1 FOR THE PROJECT CONDITIONS.



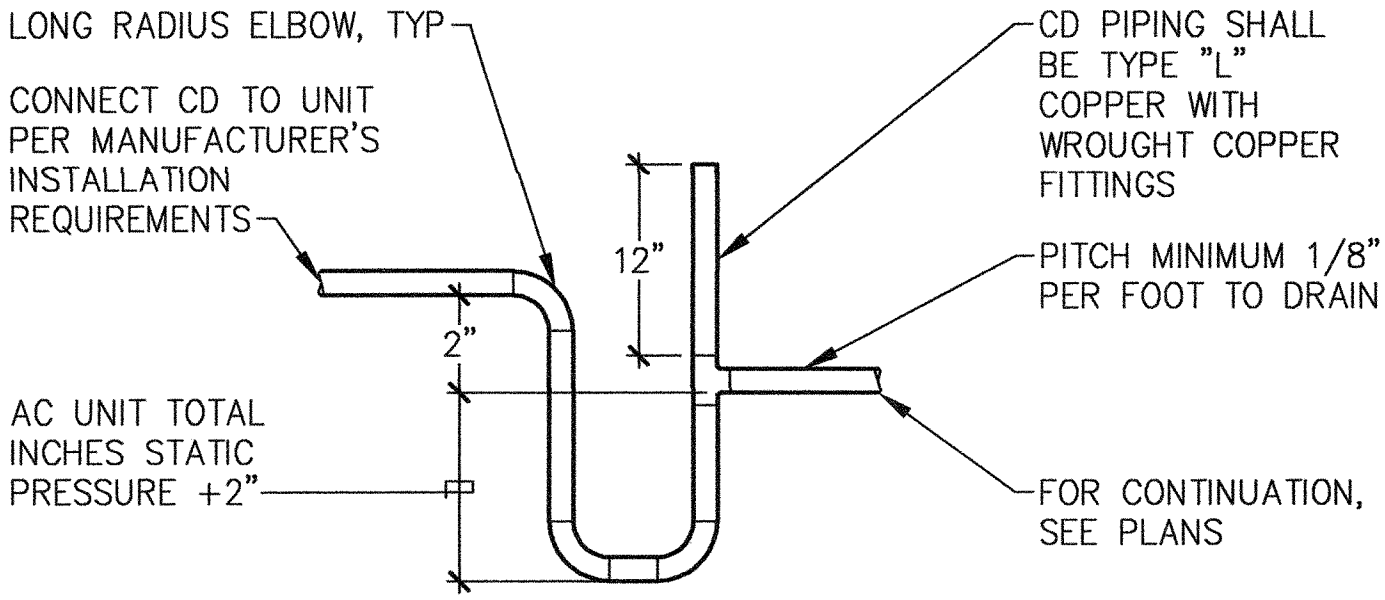
vc. (831) 648-8000 email: mal@axiomengineers.com
 fx. (831) 648-8038

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 LEE & ASSOCIATES
 CONSULTING ENGINEERS

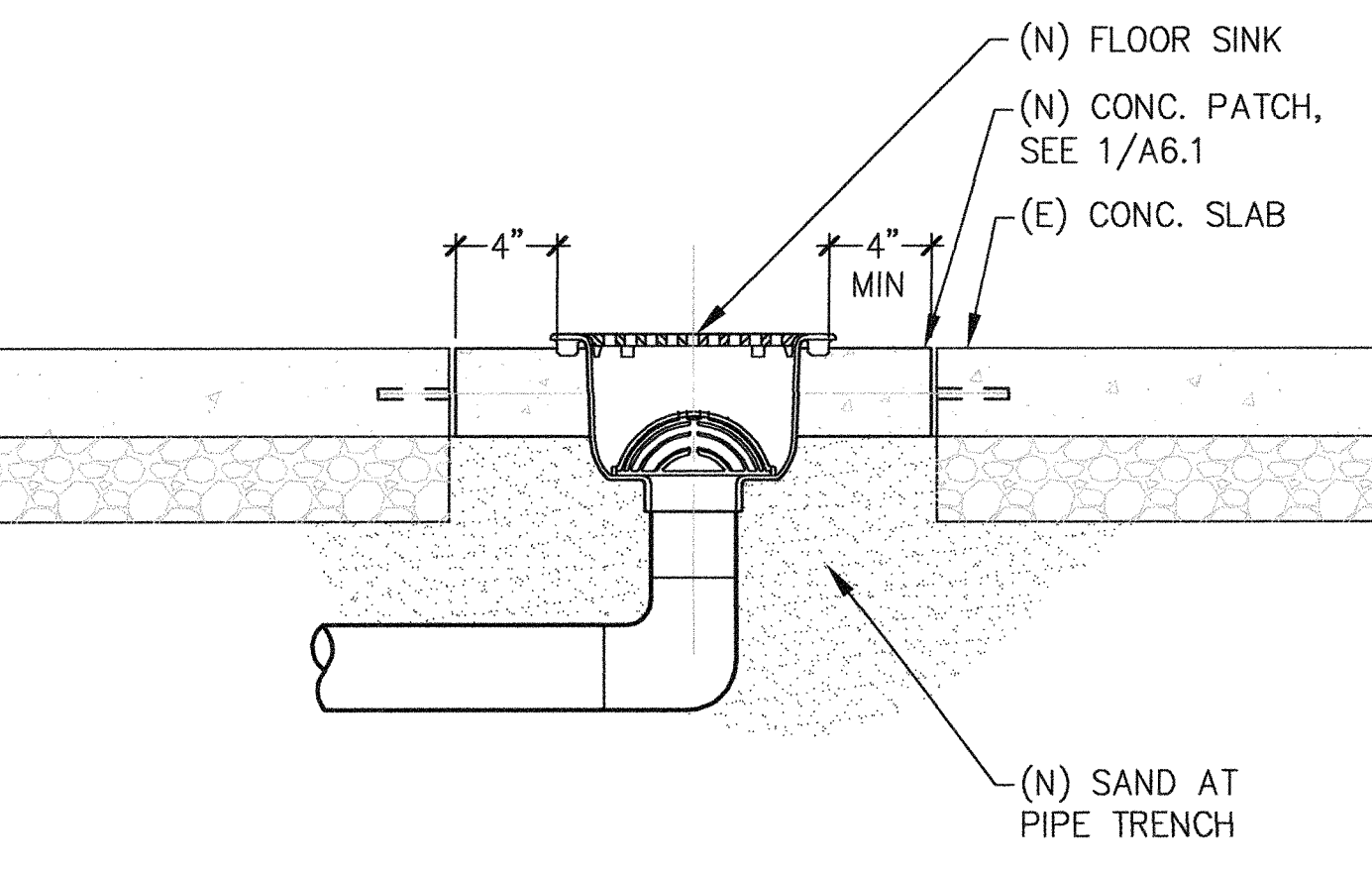
22 Lower Ragsdale Dr., Suite A
 Monterey, California 93940-5786



1 GAS CONNECTION AT UNIT
 NO SCALE



2 COOLING COIL CONDENSATE TRAP
 NO SCALE



3 FLOOR SINK
 NO SCALE


IN STUDIO ARCHITECTURE
250 MAIN STREET
SALINAS, CA 93901
831.320.2655

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT

01-117638
 APPLICATION NUMBER

DATE: SEP - 6 2018

CLIENT
GAVILAN JOINT COMMUNITY COLLEGE DISTRICT



GAVILAN COLLEGE

PROJECT
HVAC CLASSROOM

5055 SANTA TERESA BLVD
 GILROY, CA

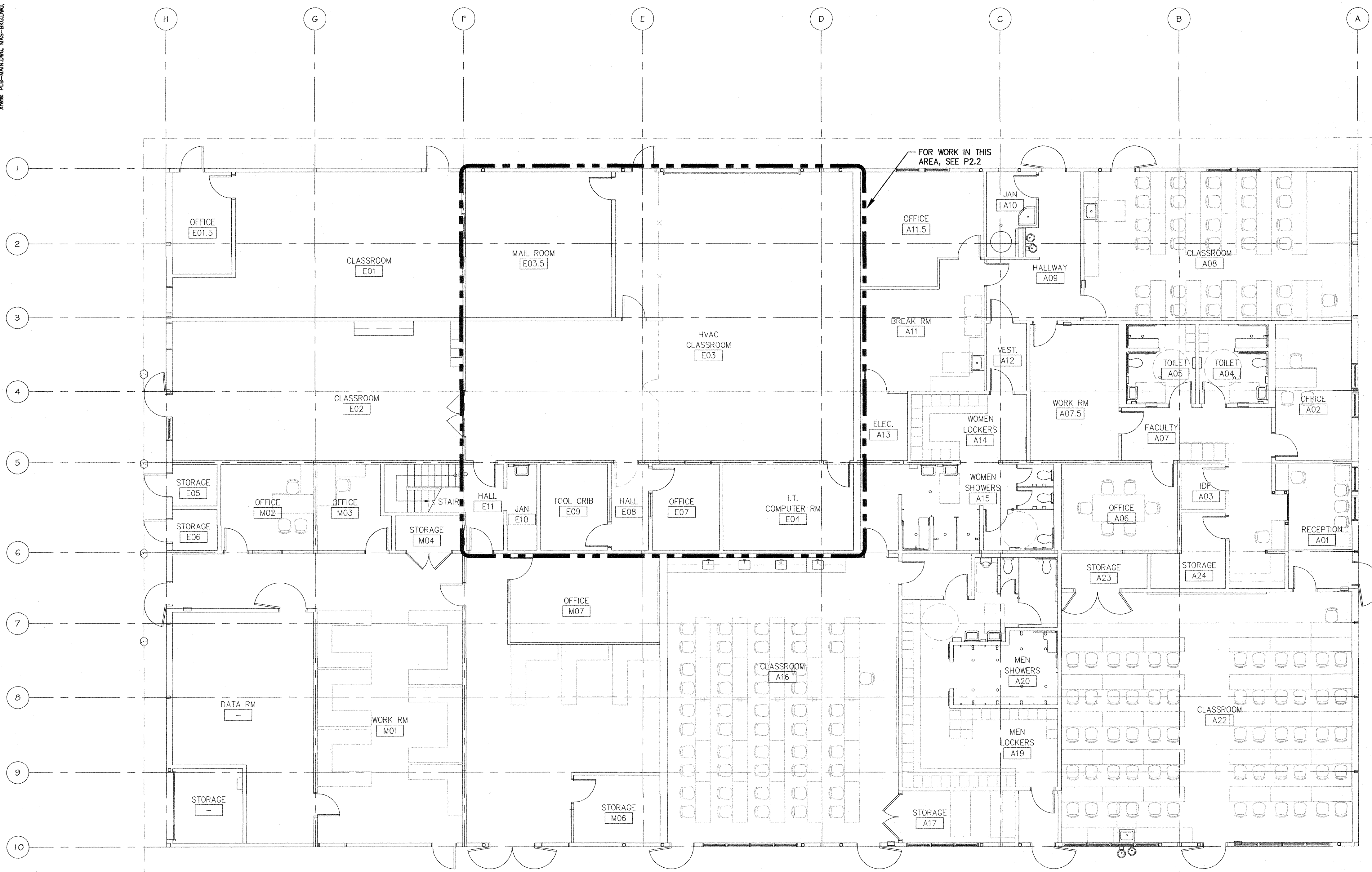
SHEET
LEGEND, SCHEDULES AND NOTES - PLUMBING

PROJECT NUMBER: 1817
 ISSUED: SEP 6, 2018
 DRAWN BY: CADD
 CHECKED BY: MS
 FILENAME:

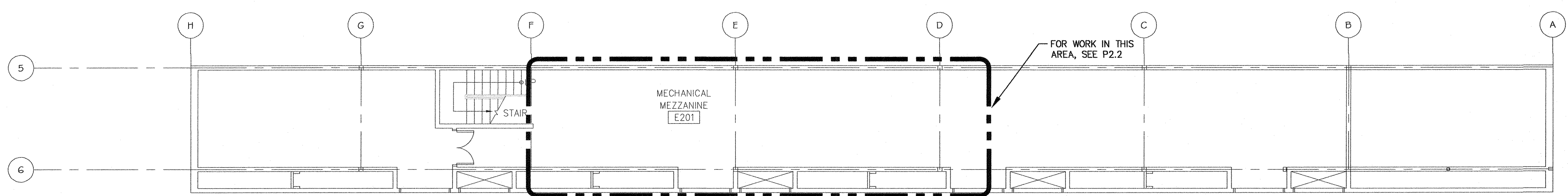
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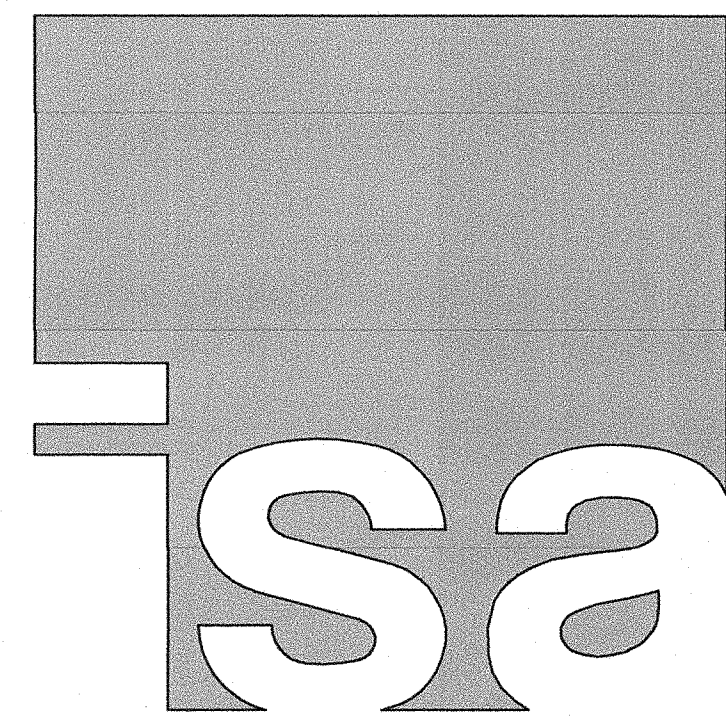
THE USE OF THESE PLANS AND SPECIFICATIONS SHALL BE RESTRICTED TO THE ORIGINAL SITE FOR WHICH THEY WERE PREPARED AND PUBLICATION THEREOF IS EXPRESSLY LIMITED TO SUCH USE. REPRODUCTION OR PUBLICATION BY ANY METHOD, IN WHOLE OR IN PART, IS PROHIBITED. TITLE TO THE PLANS AND SPECIFICATIONS REMAINS WITH THE ENGINEER WITHOUT PREJUDICE. VISUAL CONTACT WITH THESE PLANS AND SPECIFICATIONS SHALL CONSTITUTE PERMAL. FACE EVIDENCE OF THE ACCEPTANCE OF THESE RESTRICTIONS. AXIOM ENGINEERS INC., LEE & ASSOCIATES CONSULTING ENGINEERS
 JUN 19, 2018 4:11:29 P.M.
 DRAWING NO. 201800056
 PROJECT NO. 201800056
 VLM: PLS-MANU/DWG, WAS-BUILDING, WAS-BUILDING



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



FLOOR PLAN MEZZANINE - PLUMBING
 SCALE: 1/8" = 1'-0"



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 250 MAIN STREET
 SALINAS, CA 93901
 831.320.2655

DATES _____

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT

01-117638
 APPLICATION NUMBER

AC: [Signature] FL: [Signature] SS: [Signature]
 DATE: SEP 6 2018

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CLIENT
GAVILAN JOINT COMMUNITY COLLEGE DISTRICT



PROJECT
HVAC CLASSROOM

5055 SANTA TERESA BLVD
 GILROY, CA

SHEET
FLOOR PLANS - PLUMBING

PROJECT NUMBER: 1817
 ISSUED: SEP 6, 2018
 DRAWN BY: CADD
 CHECKED BY: MS
 FILENAME: _____



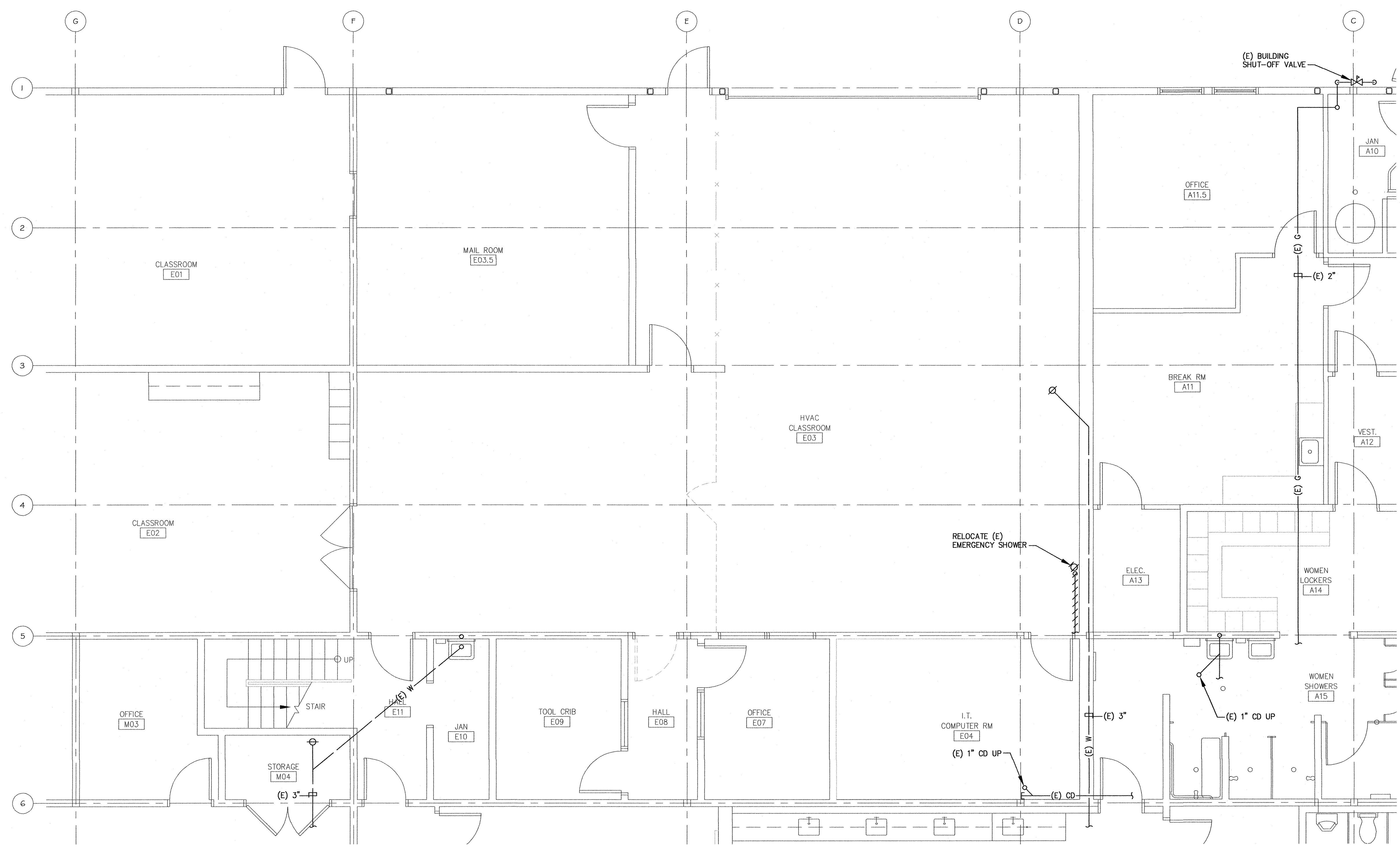
vc: (831) 648-8000 email: mol@axiomengineers.com
 fx: (831) 648-8038

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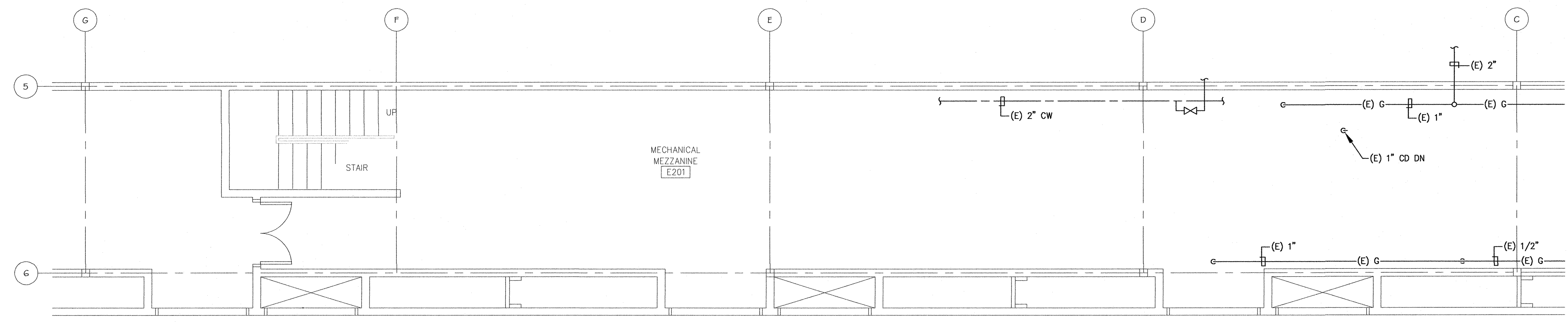
AE Project #: 201800056 22 Lower Rogsdale Dr., Suite A
 Monterey, California 93940-5788

P2.1

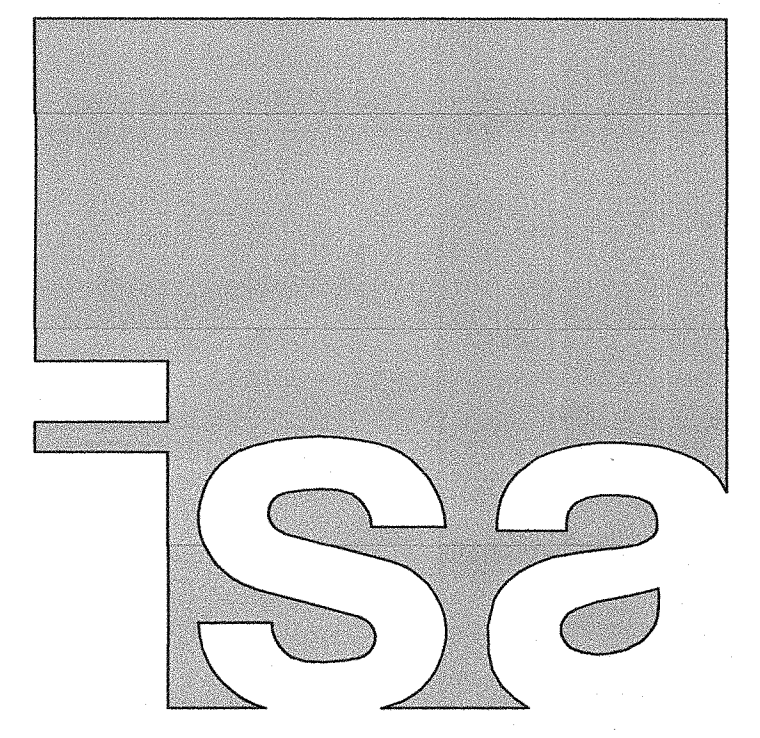
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 June 27, 2018 10:11:00 am
 Drawing: PLUMBING DEMOLITION - PARTIAL FLOOR PLANS - PLUMBING DEMOLITION
 DATE: 09/06/2018
 FILE: P2.2D



PARTIAL FLOOR PLAN - PLUMBING DEMOLITION
 SCALE: 1/4" = 1'-0"



PARTIAL MEZZANINE FLOOR PLAN - PLUMBING DEMOLITION
 SCALE: 1/4" = 1'-0"



IN STUDIO ARCHITECTURE
 250 MAIN STREET
 SALINAS, CA 93901
 831.320.2655

DATES: _____
 IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 01-117638
 APPLICATION NUMBER
 AC 2/11 FL 2/11 SS 2/11
 DATE: SEP - 6 2018

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CLIENT
GAVILAN JOINT COMMUNITY COLLEGE DISTRICT



PROJECT
HVAC CLASSROOM

5055 SANTA TERESA BLVD
 GILROY, CA

SHEET
PARTIAL FLOOR PLANS - PLUMBING DEMOLITION

PROJECT NUMBER: 1817
 ISSUED: SEP 6, 2018
 DRAWN BY: CADD
 CHECKED BY: MS
 FILENAME: _____



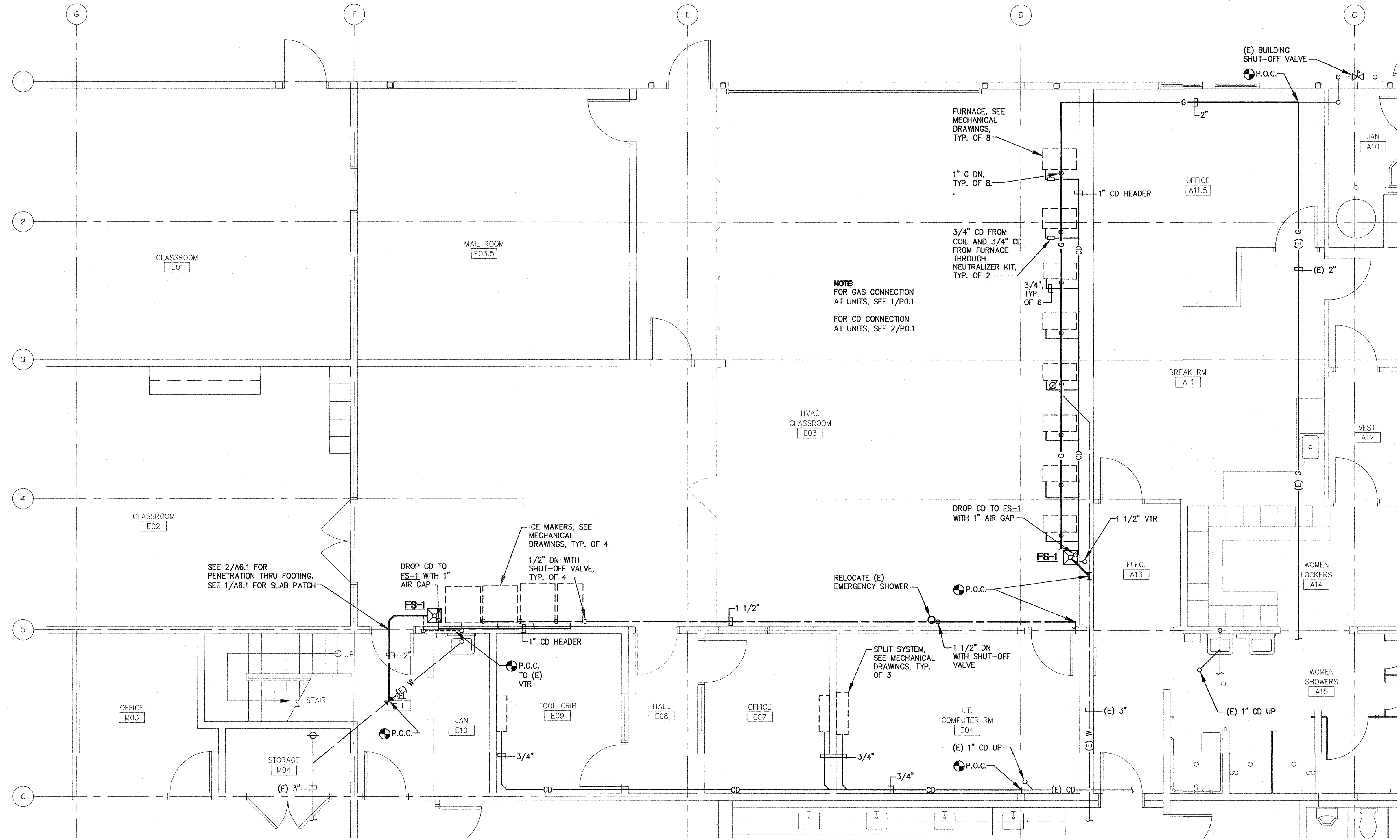
vc: (831) 649-8000
 fx: (831) 649-8038
 email: mail@axiomengineers.com

AXIOM ENGINEERS
 LEE & ASSOCIATES
 CONSULTING ENGINEERS

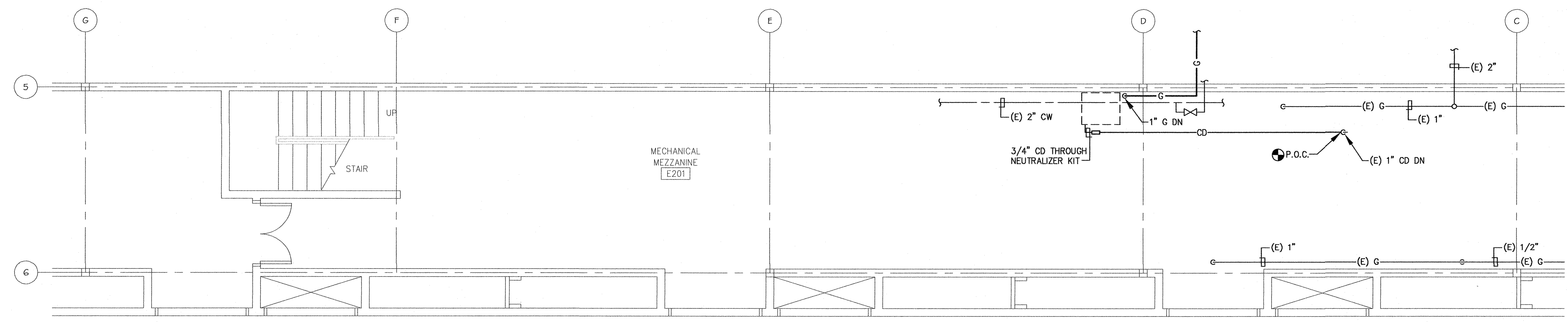
AE Project #: 20180056
 22 Lower Roadside Dr., Suite A
 Monterey, California 93940-5768

P2.2D

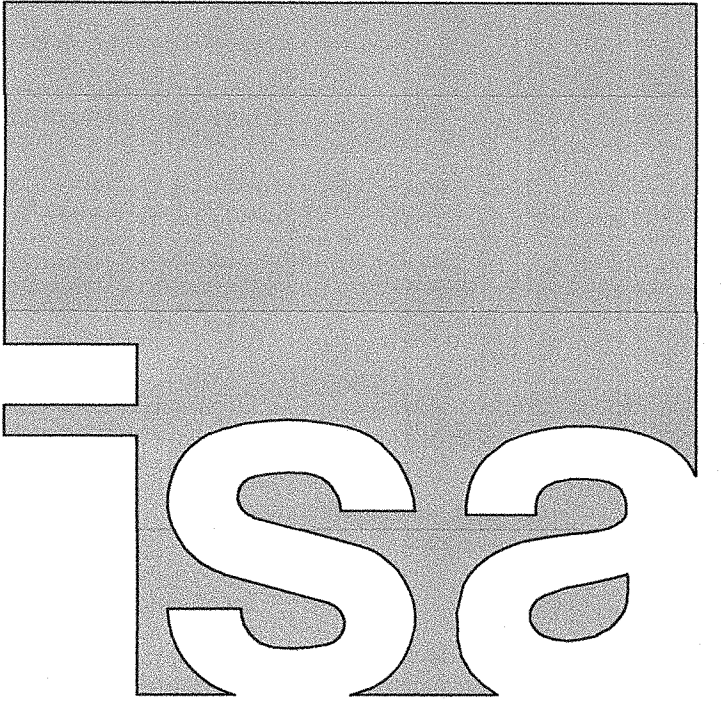
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 June 19, 2018 4:11:34 P.M.
 11/18/2018 10:58:33 AM
 VERA P. MANOLAKI, M.A.S.B., P.E., M.S.E.
 Drawing: 18-117638-01-01



PARTIAL FLOOR PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



PARTIAL MEZZANINE FLOOR PLAN - PLUMBING
SCALE: 1/4" = 1'-0"



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**GAVILAN JOINT
 COMMUNITY
 COLLEGE DISTRICT**



PROJECT
**HVAC
 CLASSROOM**

5055 SANTA TERESA BLVD
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SHEET
**PARTIAL
 FLOOR PLANS -
 PLUMBING**

PROJECT NUMBER:	1817
ISSUED:	SEP 6, 2018
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CHECKED BY:	MS
FILENAME:	



vc: (831) 649-8000
 fx: (831) 649-8038
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AXIOM ENGINEERSSM
 LEE & ASSOCIATES
 CONSULTING ENGINEERS

AE Project #: 20180056
 22 Lower Ragsdale Dr., Suite A
 Monterey, California 93940-5788

P2.2

GENERAL CONSTRUCTION NOTES

- CONTRACTOR SHALL COMPLY WITH ALL APPLICABLE CODES AND REGULATIONS. MATERIALS AND EQUIPMENT SHALL BE U.L. LISTED AND LABELED FOR THE APPLICATION.
- THE CONTRACTOR SHALL OBTAIN AND PAY FOR ALL PERMITS, LICENSES AND INSPECTION FEES REQUIRED BY THIS CONTRACT WORK.
- CONTRACTOR SHALL VISIT THE PROJECT SITE PRIOR TO BIDDING AND ALLOW FOR ALL FIELD CONDITIONS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL ELECTRICAL WORK NOTED AND CALLED OUT ON ALL CONTRACT DOCUMENTS. THE CONTRACTOR SHALL OBTAIN INFORMATION AND BE FAMILIAR WITH ALL OTHER TRADES WORK. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATION BETWEEN OTHER TRADES ON PROJECT.
- CONTRACTOR SHALL BE RESPONSIBLE FOR THE SAFETY OF PERSONS AND PROPERTY AND SHALL PROVIDE INSURANCE COVERAGE AS NECESSARY FOR LIABILITY AND PERSONAL, PROPERTY DAMAGE, TO FULLY PROTECT THE OWNER, ARCHITECT AND ENGINEER FROM ANY AND ALL CLAIMS RESULTING FROM THIS WORK.
- CONTRACTOR SHALL MAINTAIN RECORD DRAWINGS AT THE PROJECT SITE INDICATING ALL MODIFICATIONS TO ELECTRICAL SYSTEMS. THE CONTRACTOR SHALL AT THE CONCLUSION OF THE PROJECT PROVIDE ACCURATE "AS-BUILT" DRAWINGS ACCEPTABLE TO THE ARCHITECT.
- ALL MATERIALS PROVIDED TO THE PROJECT SHALL BE NEW. THE CONTRACTOR SHALL BE RESPONSIBLE TO PROVIDE AND INSTALL ALL INCIDENTAL MATERIALS REQUIRED FOR A COMPLETE INSTALLATION.
- CONTRACTOR SHALL PROVIDE TO THE ARCHITECT A CONSTRUCTION SCHEDULE OF ELECTRICAL WORK. THE CONSTRUCTION SCHEDULE SHALL IDENTIFY ALL SIGNIFICANT MILESTONES WITH COMPLETION DATES.
- CONTRACTOR SHALL PROVIDE ALL REQUIRED "CUTTING, PATCHING, EXCAVATION, BACKFILL AND REPAIRS" NECESSARY TO RESTORE DAMAGED SURFACES TO EQUAL OR BETTER THAN ORIGINAL CONDITIONS EXISTING AT START OF WORK.
- CONTRACTOR SHALL BE RESPONSIBLE FOR PAINTING ALL EXPOSED CONDUITS AND ELECTRICAL EQUIPMENT. REFER TO ARCHITECT'S PAINTING SECTION FOR REQUIREMENTS.
- ALL ELECTRICAL EQUIPMENT INSTALLED OUTDOORS SHALL BE WEATHERPROOF. EXTERIOR CONDUITS RUN INTO BUILDINGS SHALL BE INSTALLED WITH FLASHING, CAULKED AND SEALED. CONDUITS FOR EXTERIOR ELECTRICAL DEVICES SHALL BE RUN INSIDE BUILDING UNLESS OTHERWISE NOTED ON DRAWINGS.
- ALL CONDUITS UNLESS OTHERWISE NOTED ON DRAWINGS SHALL HAVE AS A MINIMUM: TWO (2) #12s WITH ONE (1) #12 GROUND. "TICK" MARKS SHOWN ON CIRCUITRY ARE FOR ROUGH ESTIMATING ONLY. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL WIRES AND WIRE SIZES REQUIRED BY LATEST CODE.
- ALL BRANCH CIRCUITS SHALL HAVE INDIVIDUAL NEUTRALS. SHARED NEUTRALS ON MULTI-WIRE CIRCUITS IS NOT ALLOWED.
- ALL 120/277V LIGHT SWITCHES AND WALL OCCUPANT SENSORS SHALL HAVE A NEUTRAL INSTALLED TO THE DEVICE BOX EXCEPT WHERE A CONDUIT OR SURFACE RACEWAY SYSTEM IS INSTALLED.
- COORDINATE ALL CONDUIT RUNS, ELECTRICAL EQUIPMENT AND PANELS WITH ALL OTHER WORK TO AVOID CONFLICTS.
- SEE ARCHITECTURAL DOCUMENTS FOR EXACT PLACEMENT OF LIGHTING FIXTURES AND DEVICES. THE ELECTRICAL CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFICATION OF CEILING TYPES FROM ARCHITECTURAL DOCUMENTS AND PROVIDE AND INSTALL ALL REQUIRED FIXTURE MOUNTING HARDWARE, PROVIDE AND INSTALL U.L. LISTED FIRE STOP ENCLOSURES FOR ALL RECESSED FIXTURES IN FIRE RATED CEILINGS.
- FROM ALL NEW FLUSH MOUNT PANELS; THE CONTRACTOR SHALL STUB UP INTO ACCESSIBLE CEILING SPACE A MINIMUM OF FOUR (4) 3/4" CONDUITS FOR FUTURE USE.
- CONTRACTOR SHALL, PRIOR TO BID, FIELD VERIFY ALL REQUIREMENTS FOR MODIFYING THE EXISTING CLOCK, DATA, AND INTERCOM SYSTEMS TO ACCOMMODATE ADDITIONS NOTED. THE CONTRACTOR SHALL PROVIDE ALL MATERIALS NEEDED TO MAKE A FULLY OPERATIONAL SYSTEM AT THE CONCLUSION OF PROJECT WORK.
- CONTRACTOR SHALL PROVIDE IN EVERY NEW EMPTY CONDUIT A DRAW STRING FOR USE IN FUTURE CONSTRUCTION.
- ALL CONDUIT SHALL BE CONCEALED WHERE POSSIBLE. CUT AND PATCH EXISTING WALLS WHERE NECESSARY. WHERE IT IS NECESSARY TO CUT OR BORE EXISTING STRUCTURAL WALLS FOR NEW ELECTRICAL WORK OBTAIN PERMISSION FROM THE ARCHITECT PRIOR TO STARTING WORK. REUSE (E) CONDUIT WHERE POSSIBLE.
- WHERE IT IS NOT POSSIBLE TO REUSE (E) CONDUIT OR RUN (N) CONCEALED CONDUIT USE NON-METALLIC SURFACE RACEWAY AND BOXES. ROUTING OF ALL NON-METALLIC RACEWAYS SHALL BE APPROVED BY THE ARCHITECT OR OWNER'S REPRESENTATIVE PRIOR TO ROUGH-IN.
- EXTENSION RINGS OR RESET BOXES TO BE FLUSH WITH NEW WALL THICKNESS.
- CONTRACTOR SHALL BE RESPONSIBLE FOR ALL DAMAGE TO (E) UNDERGROUND SYSTEMS (GAS, WATER, TELEPHONE, ELECTRICAL, SEWER, ETC.). THE CONTRACTOR SHALL REPAIR & PAY ALL EXPENSES FOR DAMAGE TO (E) UNDERGROUND SYSTEMS AS A RESULT OF (N) WORK. REPAIR TO DAMAGED UNDERGROUND SYSTEMS SHALL BE TO THE OWNERS SATISFACTION WITHOUT EXTRA EXPENSE TO THE OWNER.
- EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
- WHERE NON-METALLIC SHEATHED CONDUCTORS ARE FOUND, THE CONTRACTOR SHALL REMOVE TO FULLEST EXTENT PER THE GENERAL DEMOLITION NOTES AND REPLACE WITH CONDUIT. METAL CLAD CABLE WILL BE PERMITTED ON A CASE-BY-CASE BASIS ONLY BY WRITTEN APPROVAL FROM THE ARCHITECT.
- ALL INSTALLATION OF EXPOSED SURFACE MOUNTED RACEWAY IN PUBLIC AREAS SHALL BE REVIEWED BY ELECTRICAL ENGINEER BEFORE ROUGH-IN. CONTRACTOR IS TO DETERMINE THE ACCESSIBILITY OF ATTIC, FURRED SPACE, HOLLOW MULLIONS, ETC. IN EACH AREA AND REVIEW WITH ENGINEER. IF SYSTEM CAN BE ROUTED CONCEALED EITHER BY FISHING OR ACCESSIBILITY, CONTRACTOR IS TO DO SO. IF INACCESSIBILITY IS DETERMINED, CONTRACTOR SHALL INSTALL SURFACE MOUNTED RACEWAY IN THE MOST AESTHETICALLY PLEASING MEANS AS DETERMINED BY THE ENGINEER. NO ALLOWANCE FOR ADDITIONAL COMPENSATION DUE TO ROUTING AS DIRECTED BY THE ENGINEER WILL BE MADE.

ELECTRICAL SYMBOLS & ABBREVIATIONS

SYMBOLS & ABBREVIATIONS SHOWN ARE FOR GENERAL USE. DISREGARD THOSE WHICH DO NOT APPEAR ON THE PLANS.

	FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE		SECURITY DOOR CONTACTS		PANELBOARD - FLUSH MOUNTED		DETAIL NOTE REFERENCE SYMBOL. SEE ASSOCIATED NOTE ON SAME DETAIL.
	EMERGENCY OR NIGHT LIGHT		SECURITY MOTION DETECTOR		EQUIPMENT PANEL - FLUSH MOUNTED		DETAIL NUMBER OR SECTION REFERENCE SHEET NUMBER
	STRIP FLUORESCENT OR LED LUMINAIRE - SEE SCHEDULE		CCTV CAMERA		PANELBOARD - SURFACE MOUNTED		INDICATES QUANTITY OF TELEPHONE OUTLETS
	LUMINAIRE - RECESSED - SEE SCHEDULE		SECURITY SYSTEM KEYPAD		EQUIPMENT PANEL - SURFACE MOUNTED		INDICATES QUANTITY OF DATA OUTLETS
	RECESSED WALL WASHER		DOOR BELL PUSHBUTTON		METER W/ CURRENT TRANSFORMER		
	LUMINAIRE - SURFACE MOUNTED - SEE SCHEDULE		DOOR CHIME WITH LED		JUNCTION BOX - CEILING OR WALL MOUNTED, SIZE PER CODE, TAPE AND TAG WIRES		
	LUMINAIRE - POLE OR POST MOUNTED - SEE SCHEDULE		RECEPTACLE - DUPLEX*		MOTOR CONNECTION		
	LUMINAIRE - WALL MOUNTED SEE SCHEDULE		DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		NON-FUSED DISCONNECT SWITCH		
	BOLLARD OR PATH LIGHT - SEE SCHEDULE		GFCI CONVENIENCE RECEPTACLE - DUPLEX*		FUSED DISCONNECT SWITCH: FUSED WITH DUAL-ELEMENT FUSES SIZED PER EQUIPMENT MFG'S NAMEPLATE DATA		
	EXIT LIGHT - DIRECTIONAL ARROWS AS INDICATED - SEE SCHEDULE		GFCI CONVENIENCE DUPLEX RECEPTACLE MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		COMBINATION STARTER/FUSED DISCONNECT SWITCH: FUSED DISCONNECT SWITCH ELEMENT FUSES SIZED PER EQUIPMENT MFGRS NAMEPLATE DATA		
	TRACK LIGHTING - SEE SCHEDULE		MAGNETIC STARTER - NEMA SIZE INDICATED NEMA 3R ENCLOSURE UNLESS OTHERWISE SPECIFIED		CIRCUIT BREAKER		
	EMERGENCY LIGHT		RECEPTACLE DOUBLE DUPLEX*		GROUND ROD WITH GROUNDWELL BOX		
	DIGITAL DUAL TECHNOLOGY OCC. SENSOR		HALF SWITCHED DUPLEX RECEPTACLE *		GROUND ELECTRODE		
	LIGHTING CONTROL OCCUPANCY SENSOR CORNER MOUNTED		SINGLE RECEPTACLE*		NORMALLY OPEN CONTACT		
	DIMMER ROOM CONTROLLER		DUPLEX RECEPTACLE - CEILING MOUNTED		NORMALLY CLOSED CONTACT		
	PLUG LOAD CONTROLLER		LETTER INDICATES DUPLEX HALF CONTROLLED RECEPTACLE *		TRANSFORMER - SEE SINGLE LINE FOR SIZE		
	ROOM LIGHTING CONTROLLER		LETTER INDICATES DUPLEX FULLY CONTROLLED RECEPTACLE *		PULLBOX		
	LIGHTING CONTROL PANEL		FLOOR MOUNTED DUPLEX RECEPTACLE		FLEX CONDUIT WITH CONNECTION		
	DIGITAL DAYLIGHT SENSOR		FLOOR MOUNTED BOX		CONDUIT - UP		
	SINGLE POLE SWITCH **		POWER OUTLET - SEE PLANS FOR NEMA TYPE*		CONDUIT - DOWN		
	SINGLE POLE SWITCH, ** a = CIRCUIT CONTROLLED		POWER POLE		CONDUIT EMERGENCY SYSTEM		
	THREE WAY SWITCH**		WALL TELEPHONE OUTLET **		LOW VOLTAGE WIRING		
	FOUR WAY SWITCH**		VOICE/DATA WALL OUTLET *		SURFACE METAL OR NON-METALLIC RACEWAY		
	MANUAL MOTOR STARTER		VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		CONDUIT - CONCEALED IN WALLS OR CEILING		
	KEY OPERATED SWITCH**		SURFACE MOUNTED VOICE/DATA WALL OUTLET *		CONDUIT - EXISTING		
	LIGHTING DIMMER **		SURFACE MOUNTED VOICE/DATA OUTLET MOUNTED ABOVE COUNTER - FIELD VERIFY HEIGHT		CONDUIT - BELOW SLAB OR UNDERGROUD: 3/4" MIN.		
	DIGITAL ON/OFF SWITCH **		WIRELESS ACCESS POINT (WAP) - CEILING MOUNTED		CAPPED OR STUB-OUT CONDUIT		
	DIGITAL DIMMER SWITCH **		WIRELESS ACCESS POINT (WAP) - WALL MOUNTED - FIELD VERIFY HEIGHT		CONDUIT CONTINUATION		
	DIGITAL MULTI SCENE LIGHTING SWITCH **		VOICE/DATA OUTLET - FLOOR MOUNTED		CONDUIT - HOME RUN TO PANEL, TERMINAL CABINET, ETC. RUNS MARKED WITH CROSSHATCHES INDICATE NUMBER OF #12 AWG WIRES WHEN MORE THAN TWO. SIZE CONDUIT ACCORDING TO SPECIFICATIONS AND APPLICABLE CODE. CROSS HATCHES WITH NUMBER ADJACENT INDICATES WIRE SIZE OTHER THAN #12 AWG.		
	DIGITAL DUAL TECHNOLOGY WALL OCC. SENSOR **		TV OUTLET *		INTERIOR SPEAKERS CEILING MOUNTED		
	WALL OCCUPANCY SENSOR **		VOICE/DATA OUTLET - CEILING MOUNTED		INTERIOR SPEAKERS WALL MOUNTED		
	DOUBLE SWITCHED WALL OCCUPANCY SENSOR **		CLOCK "8" AFF U.O.N. VERIFY BEFORE INSTALLATION		SHEET NOTE REFERENCE SYMBOL. SEE ASSOCIATED NOTE ON SAME SHEET		
	DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR **				SCHEDULE SYMBOL. SEE ASSOCIATED NOTE ON SAME SHEET		
	2-BUTTON DIMMING DUAL TECHNOLOGY WALL SWITCH OCCUPANCY SENSOR **						

EQUIPMENT ANCHORAGE

M/E/P COMPONENT ANCHORAGE NOTES:

ALL MECHANICAL, PLUMBING AND ELECTRICAL COMPONENTS SHALL BE ANCHORED AND INSTALLED PER THE DETAILS ON THE DSA APPROVED CONSTRUCTION DOCUMENTS. WHERE NO DETAIL IS INDICATED, THE FOLLOWING COMPONENTS SHALL BE ANCHORED OR BRACED TO MEET THE FORCE AND DISPLACEMENT REQUIREMENTS PRESCRIBED IN THE 2016 CBC, SECTION 1616A.1.18 THROUGH 1616A.1.26 AND ASCE 7-10 CHAPTER 15, 26 & 30.

- ALL PERMANENT EQUIPMENT AND COMPONENTS.
- TEMPORARY OR MOVABLE EQUIPMENT THAT IS PERMANENTLY ATTACHED (e.g. HARD WIRE) TO THE BUILDING UTILITY SERVICES SUCH AS ELECTRICITY, GAS OR WATER.
- MOVABLE EQUIPMENT WHICH IS STATIONED IN ONE PLACE FOR MORE THAN 8 HRS AND HEAVIER THAN 400 POUNDS ARE REQUIRED TO BE ANCHORED WITH TEMPORARY ATTACHMENTS.

THE ATTACHMENT OF THE FOLLOWING MECHANICAL AND ELECTRICAL COMPONENTS SHALL BE POSITIVELY ATTACHED TO THE STRUCTURE, BUT NEED NOT BE DETAILED IN THE PLANS. THESE COMPONENTS SHALL HAVE FLEXIBLE CONNECTIONS PROVIDED BETWEEN THE COMPONENT AND ASSOCIATED DUCTWORK, PIPING AND CONDUIT.

- COMPONENTS WEIGHING LESS THAN 400 POUNDS AND HAVE A CENTER OF MASS LOCATED 4 FEET OR LESS ABOVE THE ADJACENT FLOOR OR ROOF LEVEL THAT DIRECTLY SUPPORT THE COMPONENT.
- COMPONENTS WEIGHING LESS THAN 20 POUNDS, OR IN THE CASE OF DISTRIBUTED SYSTEMS, LESS THAN 5 POUNDS PER FOOT, WHICH ARE SUSPENDED FROM A ROOF OR FLOOR OR HUNG FROM A WALL.

FOR THOSE ELEMENTS THAT DO NOT REQUIRE DETAILS ON THE APPROVED DRAWINGS, THE INSTALLATIONS SHALL BE SUBJECT TO THE APPROVAL OF THE STRUCTURAL ENGINEER OF RECORD AND THE DSA DISTRICT STRUCTURAL ENGINEER. THE PROJECT INSPECTOR WILL VERIFY THAT ALL COMPONENTS AND EQUIPMENT HAVE BEEN ANCHORED IN ACCORDANCE WITH ABOVE REQUIREMENTS.

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEM BRACING NOTE

PIPING, DUCTWORK AND ELECTRICAL DISTRIBUTION SYSTEMS SHALL BE BRACED TO COMPLY WITH THE FORCES AND DISPLACEMENTS PRESCRIBED IN ASCE 7-10 SECTION 13.3 AS DEFINED IN ASCE 7-10 SECTION 13.6.7, 13.6.5 AND 2016 CBC, SECTIONS 1616A.1.23, 1616A.1.24, 1616A.1.25 AND 1616A.1.26.

THE METHOD OF SHOWING BRACING AND ATTACHMENTS TO THE STRUCTURE FOR THE IDENTIFIED DISTRIBUTION SYSTEM ARE AS NOTED BELOW. WHEN BRACING AND ATTACHMENTS ARE BASED ON PREAPPROVED INSTALLATION GUIDE (e.g. SMACNA OR OSHPD OPM), COPIES OF THE BRACING SYSTEM INSTALLATION GUIDE OR MANUAL SHALL BE AVAILABLE ON THE JOBSITE PRIOR TO THE START OF AND DURING THE HANGING AND BRACING OF THE DISTRIBUTION SYSTEMS. THE STRUCTURAL ENGINEER OF RECORD SHALL VERIFY THE ADEQUACY OF THE STRUCTURE TO SUPPORT THE HANGER AND BRACE LOADS.

MECHANICAL PIPING (MP), MECHANICAL DUCTS (MD), PLUMBING PIPING (PP), ELECTRICAL DISTRIBUTION SYSTEMS (E):
 MP □ MD □ PP □ E □
 - OPTION 1: DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS.
 - OPTION 2: SHALL COMPLY WITH THE APPLICABLE OSHPD PRE-APPROVED (OPM#)
 MP □ MD □ PP □ E □
 - OPTION 3: SHALL COMPLY WITH THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION (2009), INCLUDING AND ADDENDA. FASTENERS AND OTHER ATTACHMENTS NOT SPECIFICALLY IDENTIFIED IN THE SMACNA SEISMIC RESTRAINT MANUAL, OSHPD EDITION, ARE DETAILED ON THE APPROVED DRAWINGS WITH PROJECT SPECIFIC NOTES AND DETAILS. THE DETAILS SHALL ACCOUNT FOR THE APPLICABLE SEISMIC HAZARD LEVEL____ AND CONTRACTOR LEVEL____ FOR THE PROJECT AND CONDITIONS.

APPLICABLE CODES & STANDARDS

CODES:

- 2016 CALIFORNIA ADMINISTRATIVE CODE C.C.R., TITLE 24, PART 1.
- 2016 CALIFORNIA BUILDING CODE (CBC) C.C.R., TITLE 24, VOL. 1 & 2 BASED ON THE 2015 INTERNATIONAL BUILDING CODE (IBC) WITH CALIFORNIA AMENDMENTS.
- 2016 CALIFORNIA ELECTRICAL CODE (CEC) C.C.R., TITLE 24, PART 3 BASED ON THE 2014 NATIONAL ELECTRICAL CODE (NEC) WITH CALIFORNIA AMENDMENTS.
- 2016 CALIFORNIA MECHANICAL CODE (CMC) C.C.R., TITLE 24, PART 4 BASED ON THE 2015 UNIFORM MECHANICAL CODE (UMC) WITH CALIFORNIA AMENDMENTS.
- 2016 CALIFORNIA PLUMBING CODE (CPC) C.C.R., TITLE 24, PART 5 BASED ON THE 2015 UNIFORM PLUMBING CODE (UPC) WITH CALIFORNIA AMENDMENTS.
- 2016 CALIFORNIA ENERGY CODE C.C.R., TITLE 24, PART 6.
- 2016 CALIFORNIA FIRE CODE (CFC) C.C.R., TITLE 24, PART 9 BASED ON THE 2015 INTERNATIONAL FIRE CODE (IFC) WITH CALIFORNIA AMENDMENTS.
- 2016 CALIFORNIA GREEN BUILDING STANDARDS CODE C.C.R., TITLE 24, PART 11.
- 2016 CALIFORNIA REFERENCED STANDARDS CODE C.C.R., TITLE 24, PART 12.
- TITLE 19 C.C.R., PUBLIC SAFETY, STATE FIRE MARSHAL REGULATIONS.
- NATIONAL FIRE ALARM CODE (NFPA 72) 2016.

STANDARDS:

- AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI)
- ELECTRONICS INDUSTRIES ASSOCIATION (EIA)
- INSTITUTE OF ELECTRICAL AND ELECTRONIC ENGINEERS (IEEE)
- NATIONAL ELECTRICAL MANUFACTURERS ASSOCIATION (NEMA)
- NATIONAL ELECTRICAL TESTING ASSOCIATION (NETA)
- UNDERWRITER LABORATORIES (UL)
- CALIFORNIA OCCUPATIONAL SAFETY AND HEALTH ACT STANDARDS (CAL/OSHA)

SHEET INDEX

E0.1	SYMBOLS, ABBREVIATIONS, CODES, STANDARDS, NOTES & SHEET INDEX.
E0.2	CALIFORNIA ENERGY COMPLIANCE TITLE 24 - INDOOR.
E1.1	ELECTRICAL SINGLE LINE DIAGRAM & PANELBOARD SCHEDULES.
E2.1	OVERALL SITE PLAN.
E2.2	OVERALL FLOOR PLAN.
E3.1	ELECTRICAL DEMOLITION PLAN.
E4.1	POWER & SYSTEMS PLAN.
E4.2	POWER PLAN - ROOF.
E5.1	LIGHTING PLAN, LIGHT FIXTURE SCHEDULE & SEQUENCE OF OPERATIONS.
E6.1	ELECTRICAL DETAILS.
E7.1	ELECTRICAL SPECIFICATIONS.
E7.2	ELECTRICAL SPECIFICATIONS.
FA0.1	SYMBOLS, ABBREVIATIONS, EQUIPMENT LIST, OPERATIONAL MATRIX, DETAILS & NOTES.
FA4.1	FIRE ALARM PLAN, RISER DIAGRAM, BATTERY & VOLTAGE DROP CALCULATIONS.
FA7.1	FIRE ALARM SPECIFICATIONS.

AI
AURUM CONSULTING
ENGINEERS
MONTEREY BAY, INC.
Project No. 17558.00
60 Garden Court • Suite 210 • Monterey, CA 93940
T.831.646.3330 • F.831.646.3336 • www.aacomb.com

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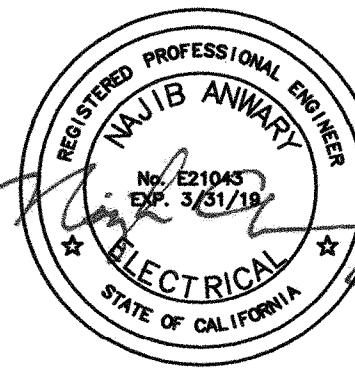
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831.320.2655

DATES

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DIVISION OF THE STATE ARCHITECT

01-117638
APPLICATION NUMBER
DATE 09-06-2018

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CLIENT

**GAVILAN JOINT
COMMUNITY
COLLEGE DISTRICT**



PROJECT

**HVAC
CLASSROOM**

5055 SANTA TERESA BLVD.
GILROY, CA 95020

SHEET

**SYMBOLS, ABBREV.,
CODES, STANDARDS,
NOTES & SHEET INDEX**

PROJECT NUMBER: 1817
ISSUED: JUNE 28, 2018
DRAWN BY: CADD
CHECKED BY: N.A.
FILENAME:

E0.1

STATE OF CALIFORNIA
Indoor Lighting
California Energy Commission
CERTIFICATE OF COMPLIANCE
Project Name: HVAC Classroom
Project Address: 5055 Santa Teresa Blvd., Gilroy CA 95020
Report Page: Page 1 of 6
Date Prepared: 5/31/2018

A. GENERAL INFORMATION
01 Project Location (city): Gilroy
02 Climate Zone: 4
03 Occupancy Types Within Project (select all that apply):
Office, Retail, Warehouse, Hotel/Motel, School, Support Areas, Parking Garage, High-Rise Residential, Relocatable, Other (write in):

B. PROJECT SCOPE
Table Instructions: Include any lighting systems that are within the scope of the permit application and are demonstrating compliance using the prescriptive path outlined in §140.6 or §141.0(a) for alterations.
Scope of Work: My Project Consists of (check all that apply):
Calculation Method, Area (ft²), Calculation Method, Area (ft²)
Unconditioned Spaces: 1,610

C. COMPLIANCE RESULTS
Table Instructions: If any cell on this table says "DOES NOT COMPLY" or "COMPLIES with Exceptional Conditions" refer to Table D. for guidance.
Lighting in conditioned and unconditioned spaces must not be combined for compliance per §140.6(b).
Conditioned: 1,932
Unconditioned: 1,610
Total Area of Work (ft²): 1,610
Controls Compliance (See Table H for Details): COMPLIES
Rated Power Reduction Compliance (See Table S for Details): Not Applicable

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2018

STATE OF CALIFORNIA
Indoor Lighting
California Energy Commission
CERTIFICATE OF COMPLIANCE
Project Name: HVAC Classroom
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Report Page: Page 4 of 6
Date Prepared: 5/31/2018

N. ADDITIONAL LIGHTING ALLOWANCE: TAILORED WALL DISPLAY
This Section Does Not Apply

O. ADDITIONAL LIGHTING ALLOWANCE: TAILORED FLOOR AND TASK LIGHTING
This Section Does Not Apply

P. ADDITIONAL LIGHTING ALLOWANCE: TAILORED ORNAMENTAL/SPECIAL EFFECTS
This Section Does Not Apply

Q. ADDITIONAL LIGHTING ALLOWANCE: TAILORED VERY VALUABLE MERCHANDISE
This Section Does Not Apply

R. POWER ADJUSTMENT: LIGHTING CONTROL CREDIT (PAF)
This Section Does Not Apply

S. RATED POWER REDUCTION COMPLIANCE BY SPACE
This Section Does Not Apply

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2018

STATE OF CALIFORNIA
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Project Name: HVAC Classroom
Project Address: 5055 Santa Teresa Blvd., Gilroy CA 95020
Report Page: Page 2 of 6
Date Prepared: 5/31/2018

D. EXCEPTIONAL CONDITIONS
This table is auto-filled with uneditable comments because of selections made or data entered in tables throughout the form.
No exceptional conditions apply to this project.

E. ADDITIONAL REMARKS
This table includes remarks made by the permit applicant to the Authority Having Jurisdiction.

F. INDOOR LIGHTING FIXTURE SCHEDULE
Table Instructions: Include all permanent designed lighting and all portable lighting in offices.
Designated Wattage: Conditioned Spaces

01	02	03	04	05	06	07	08	09	
Name or Item Tag	Complete Luminaire Description	Specialized Track	Luminaire Types Portable	Watts per luminaire¹	How Wattage is determined	Total number of luminaires	Exempt per §140.6(a)13	Design Watts	Field Inspector Pass Fail
A	Suspended Strip LED Dimmable			87	Mfr. Spec²	14		1,218	
B	Surface LED Dimmable			42	Mfr. Spec²	1		42	
						Total Designated Watts CONDITIONED SPACES:		1,260	

NOTES: Authority Having Jurisdiction may ask for Luminaire cut sheets to confirm wattage used for compliance per §130.0(c). Wattage used must be the maximum rated for the luminaire, not the lamp.

G. TRACK LIGHTING
This Section Does Not Apply

H. INDOOR LIGHTING CONTROLS (Not Including PAFs)
Table Instructions: Please include lighting controls for conditioned and unconditioned spaces in this table. When an option having a * is selected, the notes section of this table must be completed. The lighting controls section of the Compliance Summary Table on the first page will show "DOES NOT COMPLY" if the notes are left blank.
Area Level Controls: Table Continued

01	02	03
Mandatory Demand Response §130.1(e)	Shut-off Controls §130.1(c)	Field Inspector Pass Fail
Not Required ≤ 10,000 SF	See Area Level Controls	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2018

STATE OF CALIFORNIA
Indoor Lighting
California Energy Commission
CERTIFICATE OF COMPLIANCE
Project Name: HVAC Classroom
Project Address: 5055 Santa Teresa Blvd., Gilroy CA 95020
Report Page: Page 5 of 6
Date Prepared: 5/31/2018

T. DECLARATION OF REQUIRED CERTIFICATES OF INSTALLATION
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and can be found online at http://www.energy.ca.gov/2015publications/CEC-400-2015-033/appendices/forms/NRC/
Form/Title

YES	NO	Form/Title	Field Inspector Pass Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCI-LTI-01-E - Must be submitted for all buildings	
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCI-LTI-02-E - Must be submitted for a lighting control system, or for an Energy Management Control System (EMCS), to be recognized for compliance.	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-LTI-03-E - Must be submitted for a line-voltage track lighting integral current limiter, or for a supplementary overcurrent protection panel used to energize only line-voltage track lighting, to be recognized for compliance.	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-LTI-04-E - Must be submitted for two interlocked systems serving an auditorium, a convention center, a conference room, a multipurpose room, or a theater to be recognized for compliance.	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-LTI-05-E - Must be submitted for a Power Adjustment Factor (PAF) to be recognized for compliance.	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCI-LTI-06-E - Must be submitted for additional wattage installed in a video conferencing studio to be recognized for compliance.	

U. DECLARATION OF REQUIRED CERTIFICATES OF ACCEPTANCE
Table Instructions: Selections have been made based on information provided in previous tables of this document. If any selection needs to be changed, please explain why in Table E. Additional Remarks. These documents must be provided to the building inspector during construction and must be completed through an Acceptance Test Technician Certification Provider (ATTCP). For more information visit: http://www.energy.ca.gov/title24/2016standards/providers.html
Form/Title

YES	NO	Form/Title	Field Inspector Pass Fail
<input checked="" type="checkbox"/>	<input type="checkbox"/>	NRCA-LTI-02-A - Must be submitted for occupancy sensors and automatic time switch controls.	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-03-A - Must be submitted for automatic daylight controls.	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-04-A - Must be submitted for demand responsive lighting controls.	
<input type="checkbox"/>	<input checked="" type="checkbox"/>	NRCA-LTI-05-A - Must be submitted for institutional tuning power adjustment factor (PAF).	

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2018

STATE OF CALIFORNIA
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California Energy Commission
CERTIFICATE OF COMPLIANCE
Project Name: HVAC Classroom
Project Address: 5055 Santa Teresa Blvd., Gilroy CA 95020
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Date Prepared: 5/31/2018

04	05	06	07	08	09	10	11	12
Area Description	Complete Building or Area Category Primary Function Area	Area Controls §130.1(a)	Multi-Level Controls §130.1(b)	Shut-Off Controls §130.1(c)	Primary/Skylight Daylighting §130.1(d)	Secondary Daylighting §140.6(d)	Interlocked Systems §140.6(a)1	Field Inspector Pass Fail
HVAC Classroom E03	Class, Lecture, Trg, Vocational	Manual ON/OFF	Dimmer	Occ Sensor	N/A	N/A		

NOTES: Controls with a * require a note in the space below explaining how compliance is achieved.
EX: Conference 1: Primary/Skylight Daylighting: Exempt because less than 120 watts of general lighting; EXCEPTION 1 to §130.1(d)2

I. LIGHTING POWER ALLOWANCE: COMPLETE BUILDING OR AREA CATEGORY METHODS
Table Instructions: Complete the table for each area complying using the Complete Building or Area Category Methods per §140.6(b). Indicate if additional lighting power allowances per §140.6(c) or adjustments per §140.6(a) are being used.
Conditioned Spaces

01	02	03	04	05	06
Area Description	Complete Building or Area Category Primary Function Area	Allowed Density (W/ft²)	Area (ft²)	Allowed Wattage (Watts)	Additional Allowances / Adjustments Footnotes PAF Portable Ltg
HVAC Classroom E03	Class, Lecture, Trg, Vocational	1.2	1,610	1,932	
TOTAL:				1,610	1,932

See Tables J, K, R for detail

J. POWER ADJUSTMENT: PORTABLE LIGHTING IN OFFICES
This Section Does Not Apply

K. ADDITIONAL LIGHTING ALLOWANCE: AREA CATEGORY METHOD FOOTNOTES
This Section Does Not Apply

L. TAILORED METHOD GENERAL LIGHTING POWER ALLOWANCE
This Section Does Not Apply

M. ADDITIONAL LIGHTING ALLOWANCE: TAILORED SPECIAL FUNCTION AREAS
This Section Does Not Apply

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2018

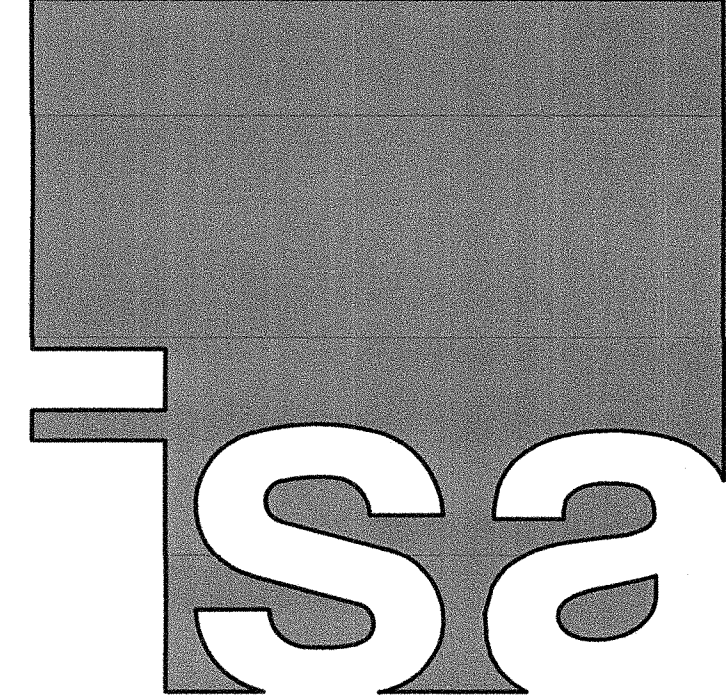
STATE OF CALIFORNIA
Indoor Lighting
California Energy Commission
CERTIFICATE OF COMPLIANCE
Project Name: HVAC Classroom
Project Address: 5055 Santa Teresa Blvd., Gilroy CA 95020
Report Page: Page 6 of 6
Date Prepared: 5/31/2018

DOCUMENTATION AUTHOR'S DECLARATION STATEMENT
Documentation Author Name: Najib Anwary
Documentation Author Signature: [Signature]
Company: Aurum Consulting Engineers
Signature Date: 5/31/2018
Address: 300 S. 1st Street Suite 342
City/State/Zip: San Jose, CA 95113
Phone: (408) 564-7925

RESPONSIBLE PERSON'S DECLARATION STATEMENT
I certify the following under penalty of perjury, under the laws of the State of California:
1. The information provided on this Certificate of Compliance is true and correct.
2. I am eligible under Division 3 of the Business and Professions Code to accept responsibility for the building design or system design identified on this Certificate of Compliance [responsible designer].
3. The energy features and performance specifications, materials, components, and manufactured devices for the building design or system design identified on this Certificate of Compliance conform to the requirements of Title 24, Part 1 and Part 6 of the California Code of Regulations.
4. The building design features or system design features identified on this Certificate of Compliance are consistent with the information provided on other applicable compliance documents, worksheets, calculations, plans and specifications submitted to the enforcement agency for approval with this building permit application.
5. I will ensure that a completed signed copy of this Certificate of Compliance shall be made available with the building permit(s) issued for the building, and made available to the enforcement agency for all applicable inspections. I understand that a completed signed copy of this Certificate of Compliance is required to be included with the documentation the builder provides to the building owner at occupancy.

Responsible Designer Name: Najib Anwary
Responsible Designer Signature: [Signature]
Company: Aurum Consulting Engineers
Date Signed: 5/31/2018
Address: 300 S. 1st Street Suite 342
City/State/Zip: San Jose, CA 95113
License: E21043
Phone: (408) 564-7925

CA Building Energy Efficiency Standards - 2016 Nonresidential Compliance: http://www.energy.ca.gov/title24/2016standards March 2018



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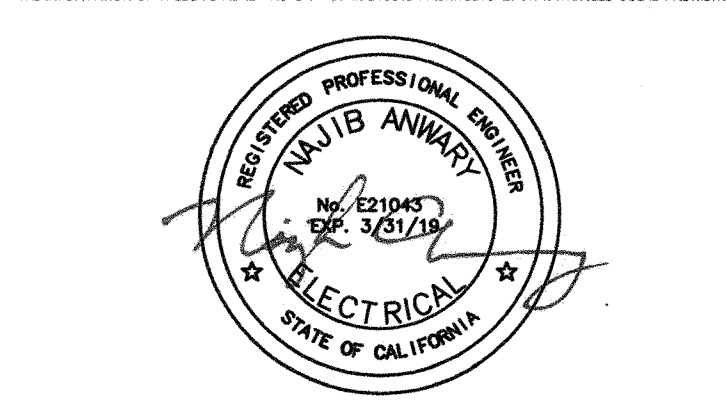
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DIVISION OF THE STATE ARCHITECT

01-117638
APPLICATION NUMBER

AC [Signature] SEC. 33505

DATE 09-06-2018

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CLIENT
GAVILAN JOINT COMMUNITY COLLEGE DISTRICT



PROJECT
HVAC CLASSROOM

5055 SANTA TERESA BLVD.
GILROY, CA 95020

SHEET
CALIFORNIA ENERGY COMPLIANCE TITLE 24 - INDOOR

PROJECT NUMBER: 1817
ISSUED: JUNE 28, 2018
DRAWN BY: CADD
CHECKED BY: N.A.
FILENAME:

AURUM CONSULTING ENGINEERS
MONTEREY BAY, INC.

Project No. 17568.00
60 Garden Court • Suite 210 • Monterey, CA 93940
T.831.646.3330 • F.831.646.3336 • www.acemb.com

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E0.2



1 OVERALL SITE PLAN
SCALE: 1"=80'-0"

AURUM CONSULTING ENGINEERS
MONTEREY BAY, INC.
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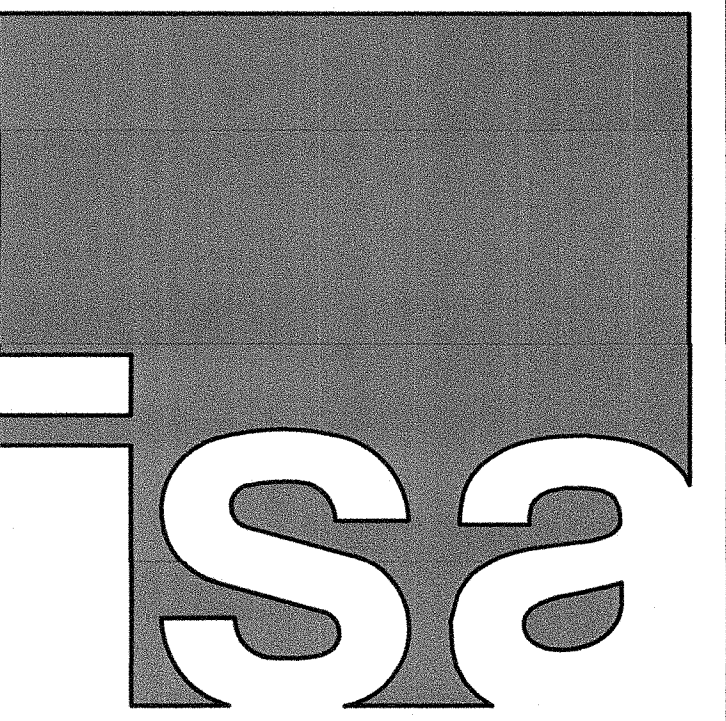
PROJECT
HVAC CLASSROOM

5055 SANTA TERESA BLVD.
GILROY, CA 95020

SHEET
OVERALL SITE PLAN

PROJECT NUMBER: 1817
ISSUED: JUNE 28, 2018
DRAWN BY: CADD
CHECKED BY: N.A.
FILENAME:

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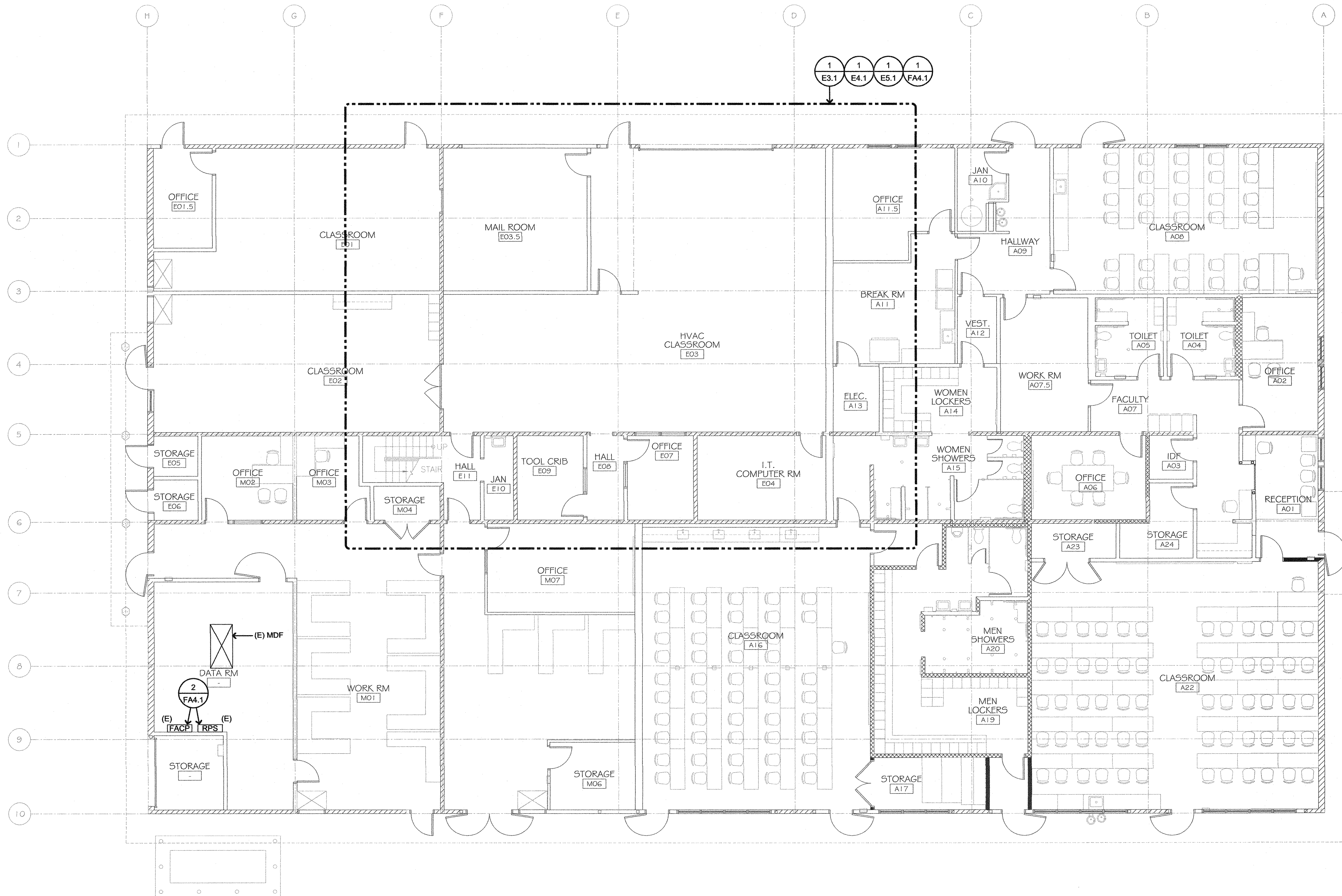


PROJECT
**HVAC
 CLASSROOM**

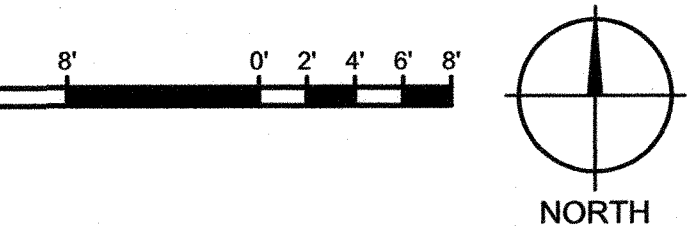
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SHEET
**OVERALL
 FLOOR PLAN**

PROJECT NUMBER: 1817
 ISSUED: JUNE 28, 2018
 DRAWN BY: CADD
 CHECKED BY: N.A.
 FILENAME:



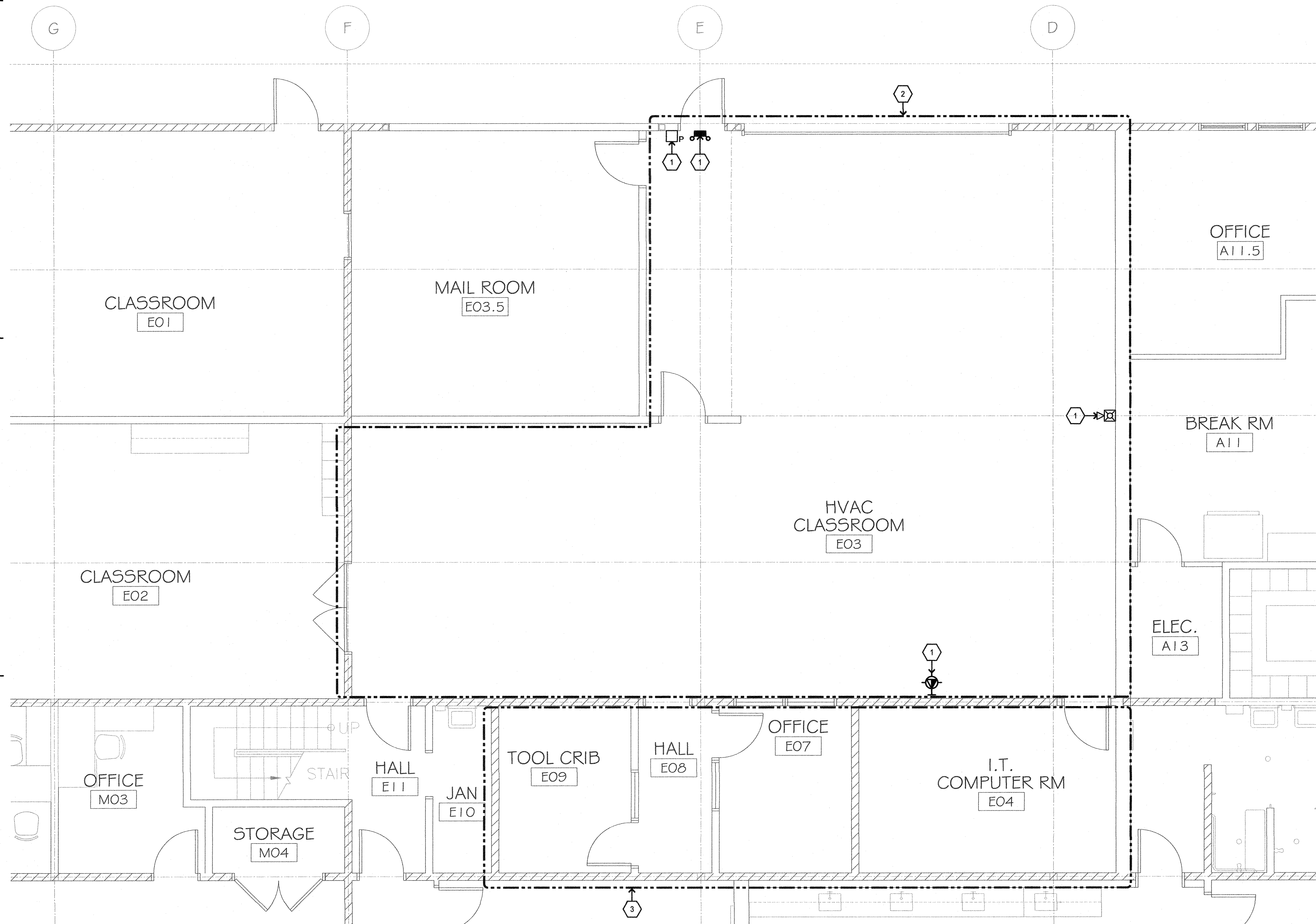
1 OVERALL FLOOR PLAN
 SCALE: 1/8"=1'-0"



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E2.2



SHEET NOTES

- EXISTING TO REMAIN.
- UNLESS OTHERWISE NOTED, PER GENERAL DEMOLITION NOTES, DEMOLISH ALL ELECTRICAL DEVICES, EQUIPMENT AND LIGHT FIXTURES.
- ALL LIGHTING FIXTURES AND ASSOCIATED CONTROLS SHALL REMAIN IN THIS AREA. DEMOLISH ELECTRICAL DEVICES (POWER & DATA) AND ASSOCIATED CONNECTIONS ONLY PER GENERAL DEMOLITION NOTES.

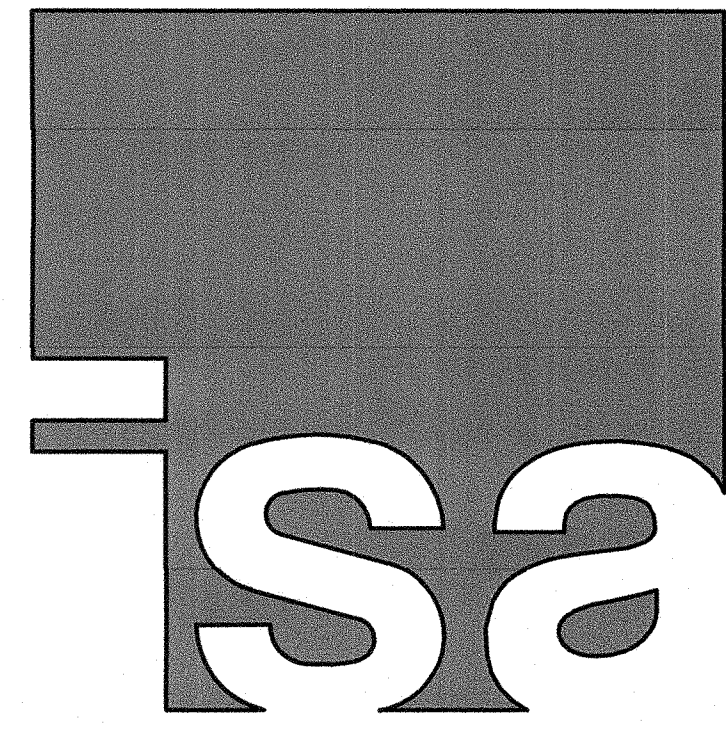
GENERAL DEMOLITION NOTES

- CONTRACTOR SHALL FIELD VERIFY EXTENT OF ELECTRICAL DEMOLITION AND QUANTITIES OF ELECTRICAL TO BE REMOVED AS DICTATED BY THE REQUIREMENTS OF THE PROJECT.
- REMOVAL SHALL INCLUDE WIRING, RACEWAY, BOXES, SWITCHES, LIGHT FIXTURES, ETC. AS INDICATED ON THE PLANS AND AS REQUIRED BY THESE DEMOLITION NOTES.
- RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE CONCEALED IN EXISTING REMAINING WALLS MAY BE ABANDONED IN PLACE. REMOVE WIRING FROM CONDUIT.
- RACEWAYS ASSOCIATED WITH ELECTRICAL BEING DEMOLISHED WHICH ARE EXPOSED SHALL BE REMOVED.
- WHERE REMOVAL OF EQUIPMENT OR WIRING IS INDICATED, IT SHALL INCLUDE ALL ASSOCIATED WIRING BACK TO LAST ACTIVE REMAINING OUTLET, DEVICE, FIXTURE OR PANEL.
- ELECTRICAL CONTRACTOR SHALL INSURE THAT ALL REMAINING ACTIVE CIRCUITS, DEVICES, OUTLETS, LIGHT FIXTURES, ETC. HAVE NOT BEEN DISCONNECTED OR MADE INOPERATIVE DURING DEMOLITION. ELECTRICAL CONTRACTOR SHALL RESTORE ALL INTERRUPTED OR DISCONNECTED CIRCUITS TO OPERATION.
- ELECTRICAL CONTRACTOR SHALL REMOVE AND DISPOSE OF ALL REMOVED ELECTRICAL EQUIPMENT AND MATERIAL.
- NO REMOVED EQUIPMENT OR MATERIAL SHALL BE REUSED AS PART OF NEW WORK, U.O.N.
- EXISTING REMAINING CONCEALED RACEWAYS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK.
- EXISTING FLUSH OUTLETS MAY BE REUSED FOR NEW WORK PROVIDED THEY MEET ALL REQUIREMENTS OF THE SPECIFICATION FOR NEW WORK, MEET THE REQUIREMENTS OF THE CURRENT C.E.C. FOR VOLUME AND COINCIDE WITH LOCATION SHOWN FOR THE NEW WORK.
- FLUSH OUTLET BOXES IN EXISTING WALLS TO REMAIN MAY BE ABANDONED IN PLACE. REMOVE DEVICES AND WIRING, PLUG OPENING AND PROVIDE AND INSTALL A BLANK DEVICE PLATE.
- EXISTING WIRING SHOWN HAS BEEN TAKEN FROM OLD PLANS AND IS ASSUMED TO BE CORRECT. ELECTRICAL CONTRACTOR SHALL FIELD VERIFY ACTUAL CONDITIONS AND MAKE ADJUSTMENTS TO SUIT ACTUAL CONDITIONS AND TO MEET THE INTENT OF THE CONTRACT DOCUMENTS.
- WHERE TELEPHONE, COMPUTER DATA, FIBER OPTICS, FIRE ALARM OR OTHER COMMUNICATIONS OUTLETS OR WIRING IS TO BE DEMOLISHED IT SHALL BE REMOVED BACK TO THE NEXT TERMINAL POINT. ELECTRICAL CONTRACTOR SHALL COORDINATE WITH OWNER OR HIS REPRESENTATIVE TO HAVE EQUIPMENT AND WIRING DESIGNATED FOR REMOVAL OR PRESERVATION PRIOR TO REMOVAL OF OUTLET, BOXES, CONDUIT OR WIRING BY ELECTRICAL CONTRACTOR.
- COORDINATE WITH OWNER PRIOR TO START OF DEMOLITION TO MINIMIZE POWER INTERRUPTIONS. WORK MAY HAVE TO OCCUR DURING NON-REGULAR BUSINESS HOURS. COORDINATE IN WRITING WITH OWNER ONE WEEK PRIOR TO PLANNED POWER INTERRUPTIONS.

1 ELECTRICAL DEMOLITION PLAN
 SCALE: 1/4"=1'-0"
 NORTH

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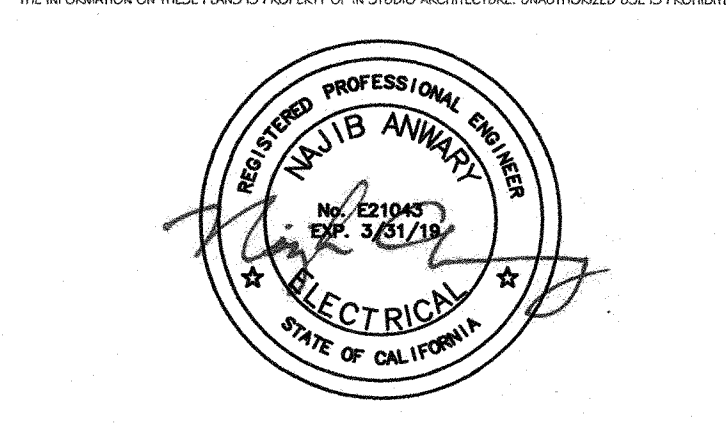
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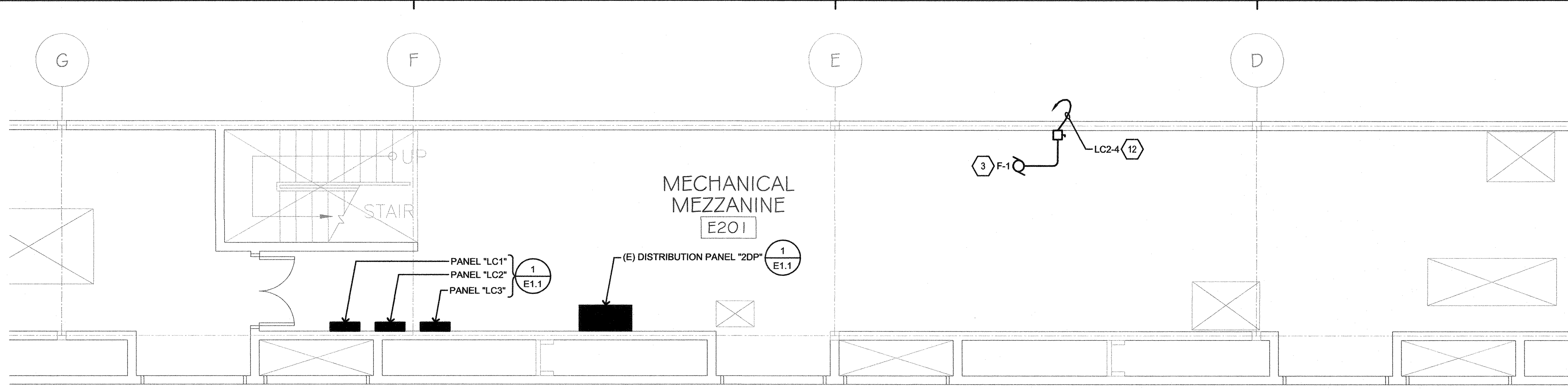
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HVAC CLASSROOM

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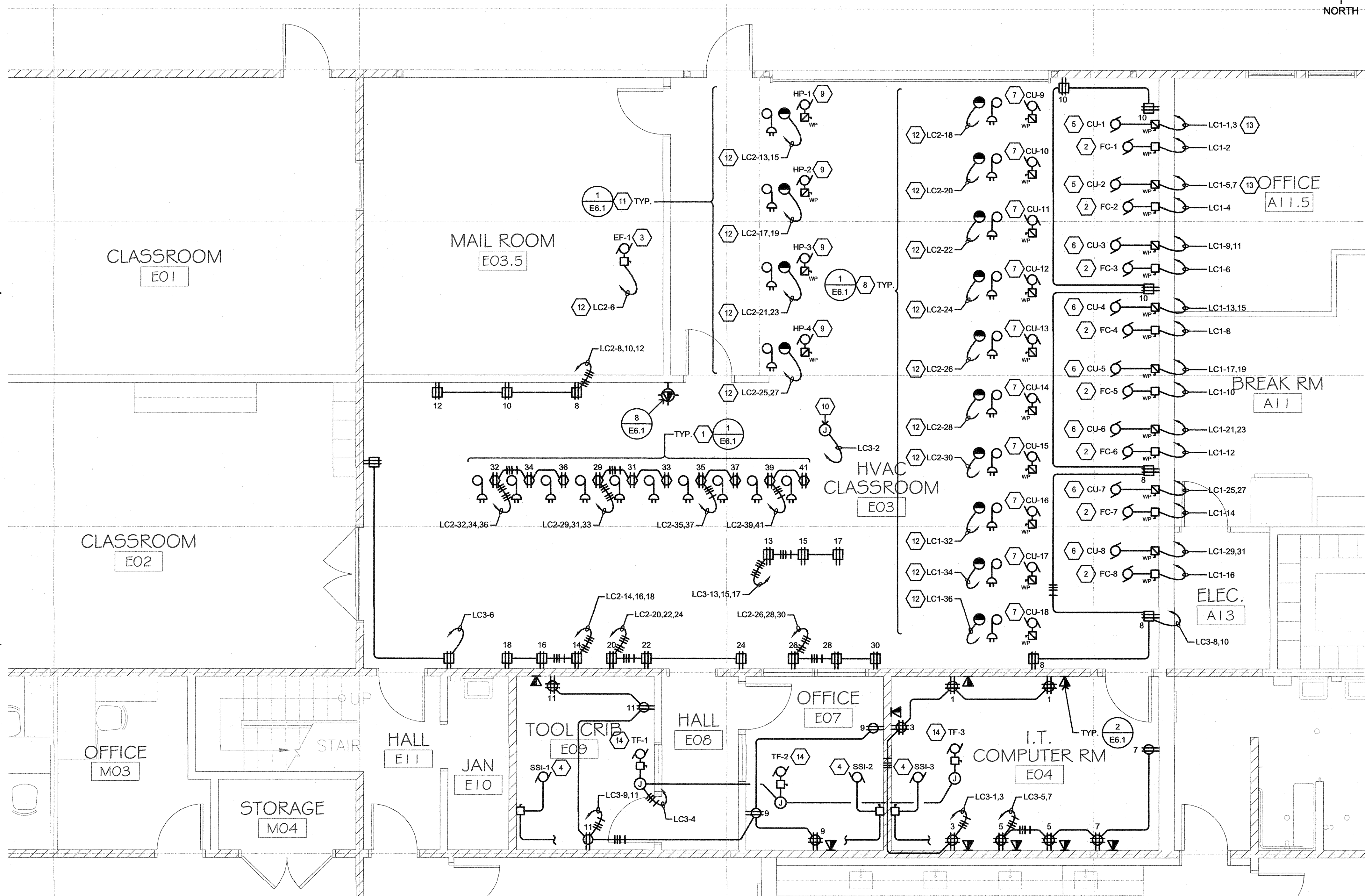
SHEET
ELECTRICAL DEMOLITION PLAN

PROJECT NUMBER: 1817
 ISSUED: JUNE 28, 2018
 DRAWN BY: CADD
 CHECKED BY: N.A.
 FILENAME:

E3.1



2 POWER & SYSTEMS PLAN - MEZZANINE
SCALE: 1/4"=1'-0"



1 POWER & SYSTEMS PLAN
SCALE: 1/4"=1'-0"

SHEET NOTES

1. PROVIDE & INSTALL CORD REEL WITH 20 AMP DUPLEX, 120V PLUG AT END CORD. CORD SHALL BE 30' LONG. INSTALL AT CEILING WITH CONNECTION 20 AMP, 120V. CEILING MOUNTED RECEPTACLE.
2. 1/3 HP, 120V.
3. 1 HP, 120V.
4. PROVIDE & INSTALL 3/4" C. WITH CIRCUIT WIRES TO OUTDOOR UNIT FOR POWER. VERIFY EXACT REQUIREMENTS WITH MECHANICAL PLANS.
5. 20 MCA, 208V, 1Ø.
6. 12 MCA, 208V, 1Ø.
7. 15 MCA, 120V.
8. PROVIDE & INSTALL CORD REEL WITH 25 AMP NEMA PLUG, TO MATCH CONDENSING UNIT INPUT AT END CORD. VERIFY EXACT REQUIREMENTS WITH MECHANICAL AND MANUFACTURER INSTALLATION INSTRUCTIONS. CORD SHALL BE 30' LONG. INSTALL AT CEILING WITH CONNECTION 25 AMP, 120V. CEILING MOUNTED NEMA TYPE RECEPTACLE.
9. 17.4 MCA, 208V, 1Ø.
10. LOCATE AT CEILING FOR CARBON MONOXIDE DETECTOR, 120V.
11. PROVIDE & INSTALL CORD REEL WITH 25 AMP NEMA PLUG, TO MATCH CONDENSING UNIT INPUT AT END CORD. VERIFY EXACT REQUIREMENTS WITH MECHANICAL AND MANUFACTURER INSTALLATION INSTRUCTIONS. CORD SHALL BE 30' LONG. INSTALL AT CEILING WITH CONNECTION 25 AMP, 208V. CEILING MOUNTED NEMA TYPE RECEPTACLE.
12. 1/2" C., 2 #10 & 1 #10 GND.
13. 1/2" C., 2 #8 & 1 #10 GND.
14. 38 WATTS, 120V.

BRANCH CIRCUIT CONDUCTOR SIZING TABLE

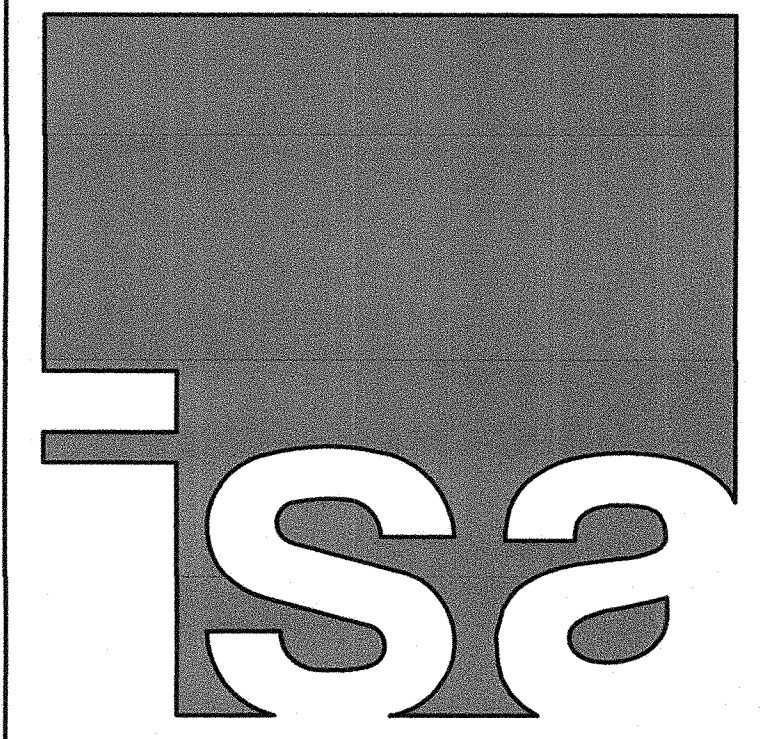
CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	REQUIREMENT
20/120	56'-90'	1/2" C., 2 #10 & 1 #10 GND.
20/120	91'-140'	1/2" C., 2 #8 & 1 #10 GND.
20/277	131'-205'	1/2" C., 2 #10 & 1 #10 GND.
20/277	206'-330'	1/2" C., 2 #8 & 1 #10 GND.

NOTE:
CONTRACTOR SHALL SIZE BRANCH CIRCUIT CONDUCTORS PER THE TABLE ABOVE AS DETERMINED BY THE CIRCUIT CONDUCTOR LENGTH, U.O.N. CONTRACTOR SHALL SPLICE TO #12 AWG WITHIN TERMINATION BOX FOR DEVICE CONNECTION IF NECESSARY.

GENERAL NOTE:

A. UNLESS OTHERWISE NOTED, PROVIDE & INSTALL ALL CORD REELS WITH #10 AWG CONDUCTORS AS PART OF CORD REEL CABLES/WIRES.

B. UNLESS OTHERWISE NOTED, WHERE ARCHITECTURAL PLANS DO NOT SHOW WALLS TO BE FURRED OUT; CONTRACTOR SHALL PROVIDE & INSTALL SURFACE METAL (EMT) RACEWAYS & BOXES FOR DEVICES SHOWN.



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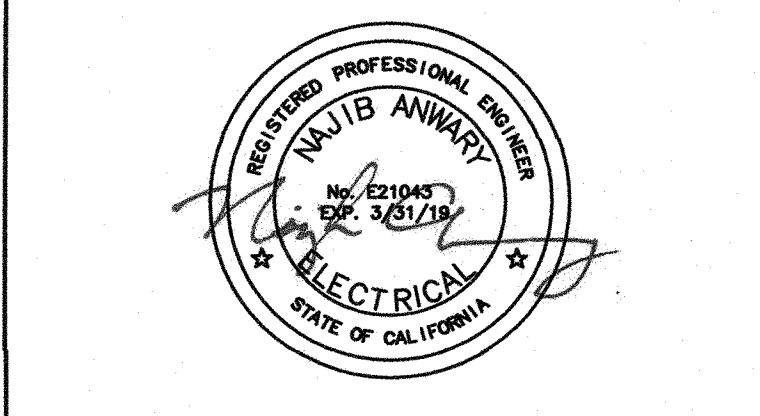
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APPLICATION NUMBER

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GAVILAN JOINT COMMUNITY COLLEGE DISTRICT



PROJECT
HVAC CLASSROOM

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SHEET
POWER & SYSTEMS PLAN

AURUM CONSULTING ENGINEERS
MONTEREY BAY, INC.

Project No. 17558.00

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DRAWN BY: CADD
CHECKED BY: N.A.
FILENAME:

E4.1

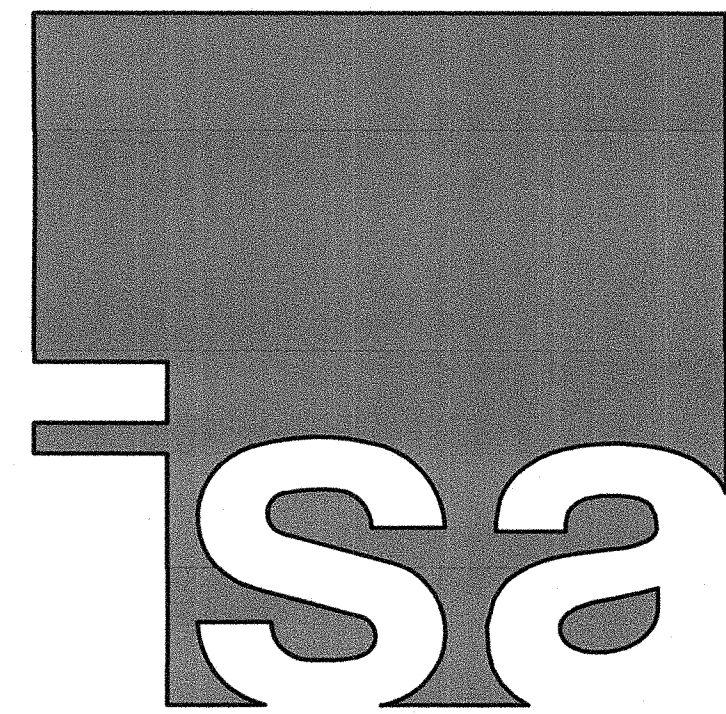
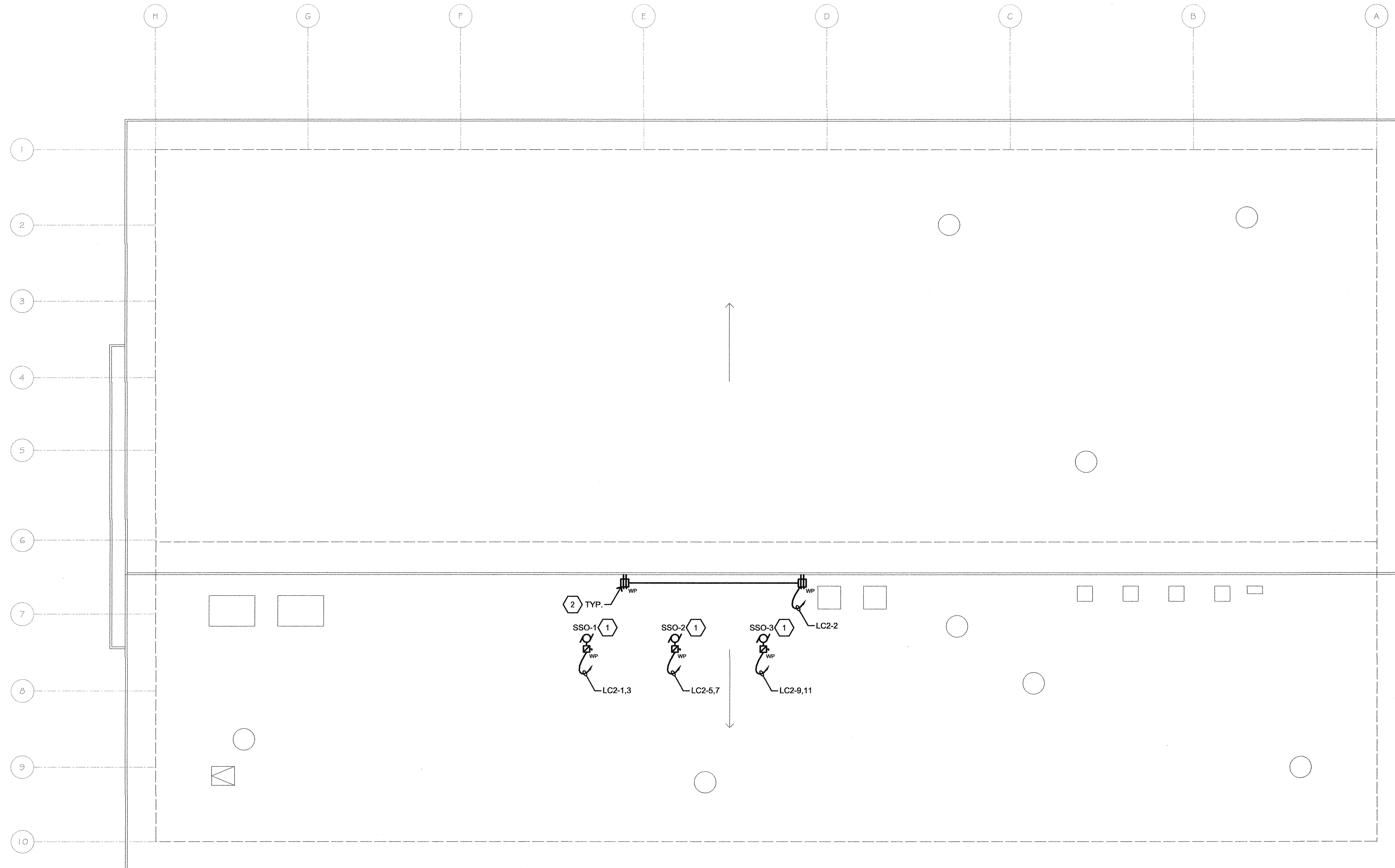
SHEET NOTES

- 9 MCA, 208V, 1Ø.
- PROVIDE & INSTALL IN-USE WEATHERPROOF COVER, TAYMAC OR EQUAL.

BRANCH CIRCUIT CONDUCTOR SIZING TABLE

CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	REQUIREMENT
20/120	56'-90'	½" C., 2 #10 & 1 #10 GND.
20/120	91'-140'	½" C., 2 #8 & 1 #10 GND.
20/277	131'-205'	½" C., 2 #10 & 1 #10 GND.
20/277	206'-330'	½" C., 2 #8 & 1 #10 GND.

NOTE:
CONTRACTOR SHALL SIZE BRANCH CIRCUIT CONDUCTORS PER THE TABLE ABOVE AS DETERMINED BY THE CIRCUIT CONDUCTOR LENGTH, U.O.N. CONTRACTOR SHALL SPLICE TO #12 AWG WITHIN TERMINATION BOX FOR DEVICE CONNECTION IF NECESSARY.



IN STUDIO ARCHITECTURE
250 MAIN STREET
SALINAS, CA 93901
831.320.2655

DATES

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
01-117638
APPLICATION NUMBER
AC *DM* FL *SS* SS *SS*
DATE: 09-06-2018

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CLIENT
GAVILAN JOINT
COMMUNITY
COLLEGE DISTRICT



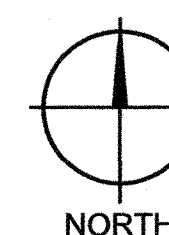
PROJECT
HVAC
CLASSROOM

5055 SANTA TERESA BLVD.
GILROY, CA 95020

SHEET
POWER PLAN -
ROOF

PROJECT NUMBER: 1817
ISSUED: JUNE 28, 2018
DRAWN BY: CADD
CHECKED BY: N.A.
FILENAME:

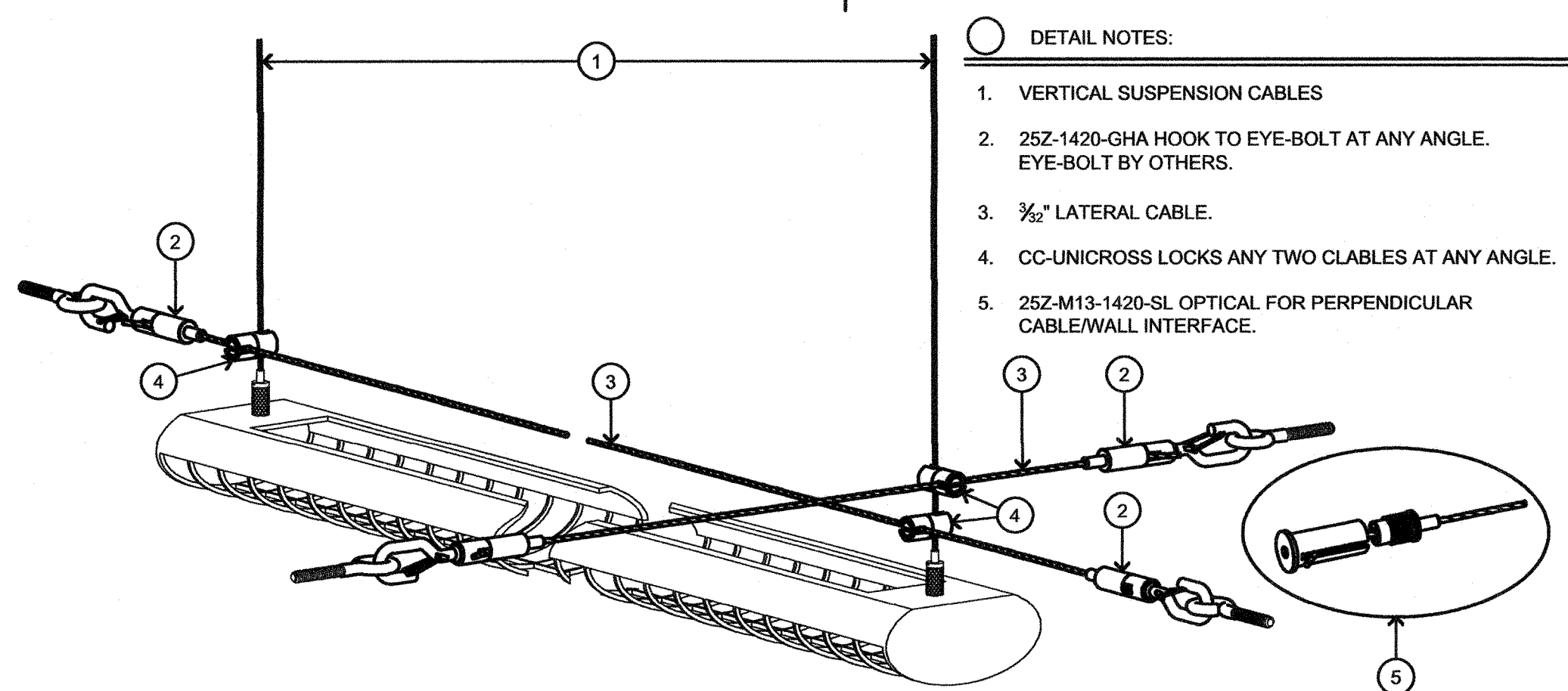
1 POWER PLAN - ROOF
SCALE: 1/8"=1'-0"



AURUM CONSULTING ENGINEERS
MONTEREY BAY, INC.
Project No. 17588.00
60 Garden Court • Suite 210 • Monterey, CA 93940
T.831.646.3330 • F.831.646.3336 • www.acemb.com

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E4.2



2 GRIPLOCK SEISMIC SYSTEM
NO SCALE

INTERIOR LIGHTING CONTROLS SEQUENCE OF OPERATION

ROOM TYPE	FUNCTION	REMARKS
CLASSROOMS	OCCUPANCY SENSOR - MANUAL ON	
	OCCUPANCY SENSOR - AUTO ON	
	OCCUPANCY SENSOR - AUTO OFF	
	CONTINUOUS DIMMING TO OFF	
	OFF SWITCH	
	MULTI-ON DIMMING	
	AUTO TIME CLOCK OFF	
	OVERSEER'S AUTO DIMMING (SEE SWING ON PLAN)	
	BE LIGHT LEVEL 1% TO 10% ON	
	ACCEPTANCE TESTING OF CONTROLS BY C/C/AT	

GENERAL NOTE:
DAYLIGHT SENSORS & DEMAND RESPONSE REQUIREMENTS ARE EXEMPT FROM THIS PROJECT PER CALIFORNIA TITLE 24 "TABLE 141.0-E CONTROL REQUIREMENTS FOR ENTIRE LUMINAIRE ALTERATIONS" LIGHTING POWER DENSITY IS ≤ 85% OF ALLOWANCE.

SHEET NOTES

1. MOUNT SUSPENDED 4 FEET FROM CEILING.
2. CONNECT VIA LIGHTING CIRCUIT UNSWITCHED HOT IN SAME SPACE.
3. CONTRACTOR SHALL PROVIDE SEISMIC BRACING ONLY WHERE ANY STRUCTURAL OR EQUIPMENT INSTALLED AS PART OF THIS PROJECT (I.E. CORD REELS, MECHANICAL SYSTEMS) WILL BE WITHIN 45° OF FIXTURE SWING.

LIGHT FIXTURE SCHEDULE

FIXTURE NOTES:

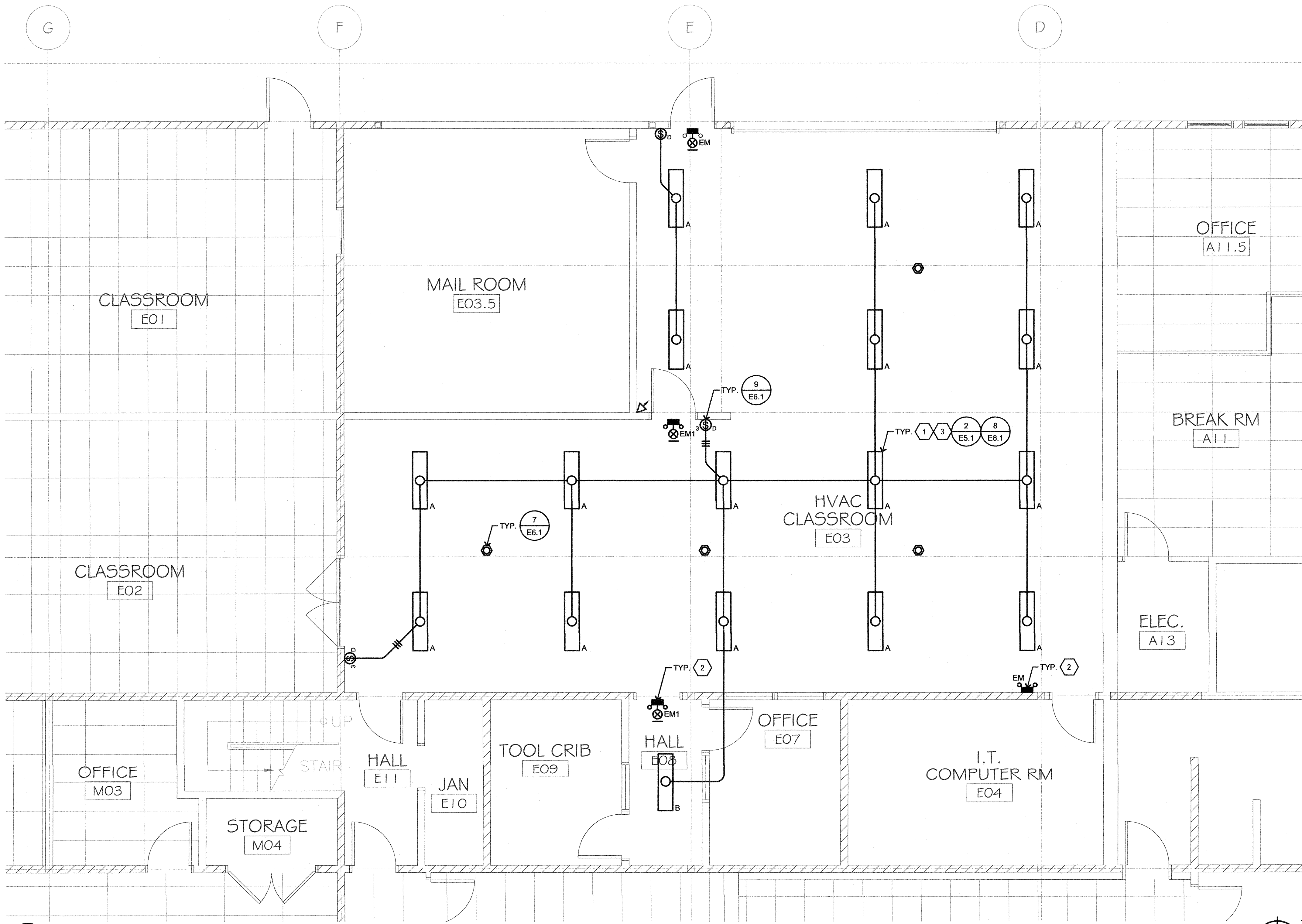
1. ALL FLUORESCENT/LED LIGHT FIXTURE BALLASTS/DRIVERS SHALL BE ELECTRONIC TYPE, 10% TOTAL HARMONIC DISTORTION MAXIMUM.
2. ALL LED LIGHT MODULES SHALL BE ENERGY SAVING 3500° K, 80 CRI MINIMUM, U.O.N. (SEE SPECIFICATIONS FOR MORE INFORMATION).
3. ALL LED DRIVERS (AND ASSOC. FIXTS.) SHALL HAVE MANUFACTURER'S CERTIFICATION OF COMPLIANCE WITH CALIFORNIA ENERGY COMMISSION STANDARDS AND REQUIREMENTS, WHERE SUCH ARE USED IN CONDITIONED SPACES.
4. EXIT SIGNS, EMERGENCY LIGHTS AND LIGHT FIXTURES WITH EMERGENCY BATTERY BACK-UP SHALL SUPPLY A MINIMUM DURATION OF 90 MINUTES OF POWER IN THE EVENT OF A POWER OUTAGE/FAILURE.

TYPE	DESCRIPTION	LAMPS	MANUFACTURER
A	SUSPENDED STRIP LED FIXTURE, 0-10V DIMMING DRIVER, 120/277V. FINISH PER ARCHITECT.	87W LED	HE WILLIAMS 82 LED SERIES
B	SURFACE LED FIXTURE, 0-10V DIMMING DRIVER, 120/277V. FINISH PER ARCHITECT.	42W LED	HE WILLIAMS AVX LED SERIES
EM	EXIT LIGHT FIXTURE, ALUMINUM WHITE THERMOPLASTIC HOUSING, EMERGENCY BATTERY BACK-UP AND BATTERY CHARGER WITH "SPECTRON" SELF TEST & EXERCISE FEATURE. GREEN LETTER. SEE PLANS FOR NUMBER OF FACES, ARROWS AND MOUNTING REQUIRED, CONNECT UNSWITCHED, 120V.	FURNACE WITH FIXTURE	DUAL LITE SE SERIES
EM1	COMBO EXIT/EMERGENCY LIGHT FIXTURE, ALUMINUM WHITE THERMOPLASTIC HOUSING, EMERGENCY BATTERY BACK-UP AND BATTERY CHARGER WITH "SPECTRON" SELF TEST & EXERCISE FEATURE. GREEN LETTER. SEE PLANS FOR NUMBER OF FACES, ARROWS AND MOUNTING REQUIRED, CONNECT UNSWITCHED, 120V.	3W LED	DUAL LITE LT LED SERIES

BRANCH CIRCUIT CONDUCTOR SIZING TABLE

CIRCUIT AMPACITY/VOLTAGE	CIRCUIT LENGTH	REQUIREMENT
20/120	56'-90'	1/2" C., 2 #10 & 1 #10 GND.
20/120	91'-140'	1/2" C., 2 #8 & 1 #10 GND.
20/277	131'-205'	1/2" C., 2 #10 & 1 #10 GND.
20/277	206'-330'	1/2" C., 2 #8 & 1 #10 GND.

NOTE:
CONTRACTOR SHALL SIZE BRANCH CIRCUIT CONDUCTORS PER THE TABLE ABOVE AS DETERMINED BY THE CIRCUIT CONDUCTOR LENGTH, U.O.N. CONTRACTOR SHALL SPLICE TO #12 AWG WITHIN TERMINATION BOX FOR DEVICE CONNECTION IF NECESSARY.



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

ISA

IN STUDIO ARCHITECTURE
250 MAIN STREET
SALINAS, CA 93901
831.320.2655

DATES

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

01-117638
APPLICATION NUMBER

AC SA FL SS ME
DATE: 09-06-2018

REGISTERED PROFESSIONAL ENGINEER
NEWB ANWARY
No. E21045
Exp. 3/21/19
ELECTRICAL
STATE OF CALIFORNIA

CLIENT

GAVILAN JOINT COMMUNITY COLLEGE DISTRICT

GAVILAN COLLEGE

PROJECT

HVAC CLASSROOM

5055 SANTA TERESA BLVD.
GILROY, CA 95020

SHEET

LIGHTING PLAN, LIGHT FIXT. SCHEDULE & SEQUENCE OF OPERATIONS

PROJECT NUMBER: 1817
ISSUED: JUNE 28, 2018
DRAWN BY: CADD
CHECKED BY: N.A.
FILENAME:

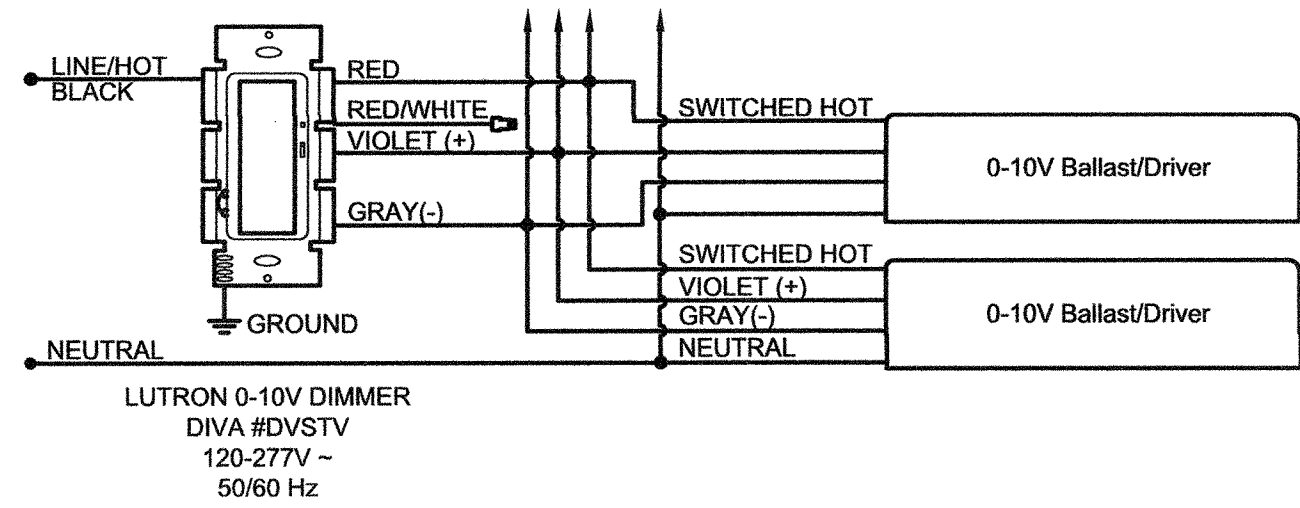
AURUM CONSULTING ENGINEERS
MONTEREY BAY, INC.

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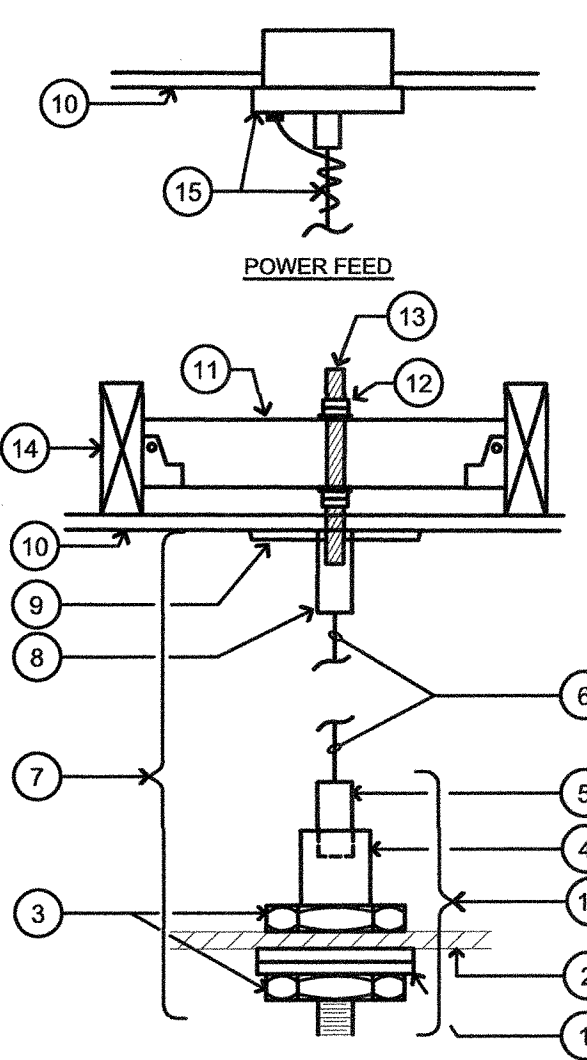
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E5.1



9 0-10V DIMMING WIRING DIAGRAM

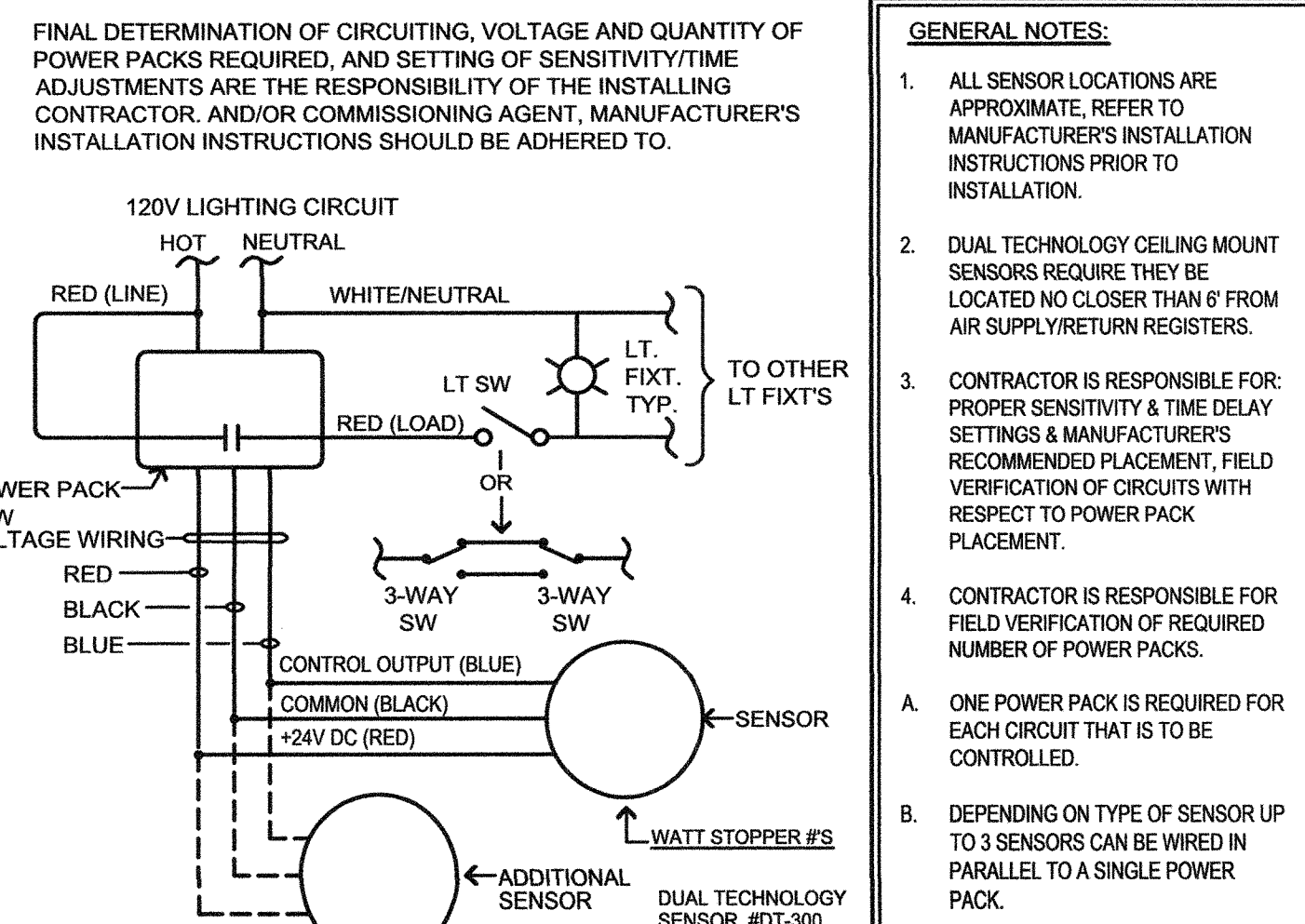
NO SCALE



- DETAIL NOTES**
1. LOCK & CENTERING WASHERS
 2. FIXTURE HOUSING
 3. LOCK NUTS
 4. END FITTING
 5. STEEL CAPTIVE FULLY ADJUSTABLE LEVELING DEVICE
 6. 3/8" STAINLESS STEEL, FULLY ADJUSTABLE AIRCRAFT CABLE
 7. UL LISTED CABLE ASSEMBLY (TO BE FURNISHED WITH FIXT.) LITE CONTROL ACC/V WITH ACC/F
 8. THREADED SLEEVE
 9. CANOPY ASSY.
 10. CEILING
 11. 4" x 4" BLOCKING WITH SIMPSON U44 JOIST HANGER EACH END
 12. DOUBLE NUTS & FLATWASHER (BOTH SIDES OF BLOCKING)
 13. 1/2" X 20 THREADED ROD
 14. 2 x FRAMING
 15. 5" DIA CANOPY POWER FEED WITH COILED CORD (18/3)
 16. FIXTURE OUTLET BOX
 17. FULLY ADJUSTABLE

8 CABLE SUSPENDED MOUNTING DETAIL

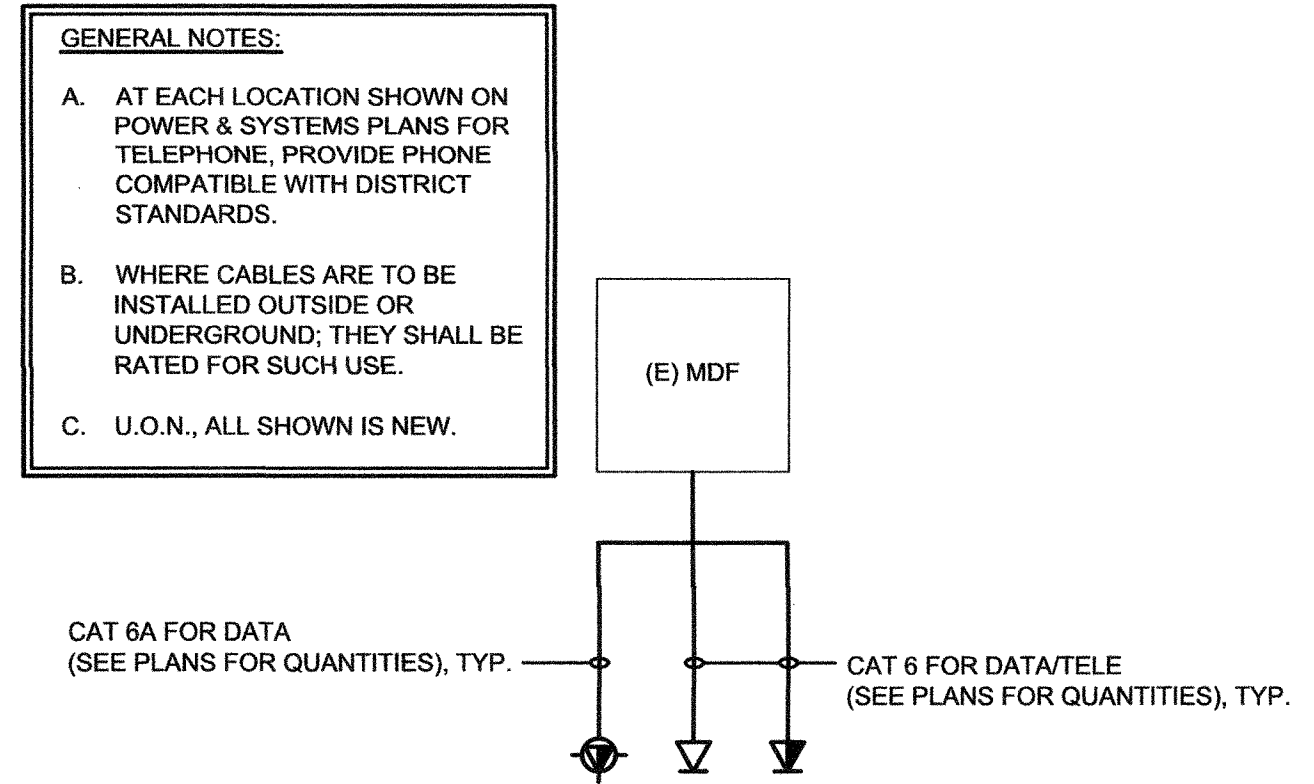
NO SCALE



- GENERAL NOTES:**
1. ALL SENSOR LOCATIONS ARE APPROXIMATE. REFER TO MANUFACTURER'S INSTALLATION INSTRUCTIONS PRIOR TO INSTALLATION.
 2. DUAL TECHNOLOGY CEILING MOUNT SENSORS REQUIRE THEY BE LOCATED NO CLOSER THAN 6" FROM AIR SUPPLY/RETURN REGISTERS.
 3. CONTRACTOR IS RESPONSIBLE FOR PROPER SENSITIVITY & TIME DELAY SETTINGS & MANUFACTURER'S RECOMMENDED PLACEMENT. FIELD VERIFICATION OF CIRCUITS WITH RESPECT TO POWER PACK PLACEMENT.
 4. CONTRACTOR IS RESPONSIBLE FOR FIELD VERIFICATION OF REQUIRED NUMBER OF POWER PACKS.
- A. ONE POWER PACK IS REQUIRED FOR EACH CIRCUIT THAT IS TO BE CONTROLLED.
- B. DEPENDING ON TYPE OF SENSOR UP TO 3 SENSORS CAN BE WIRED IN PARALLEL TO A SINGLE POWER PACK.

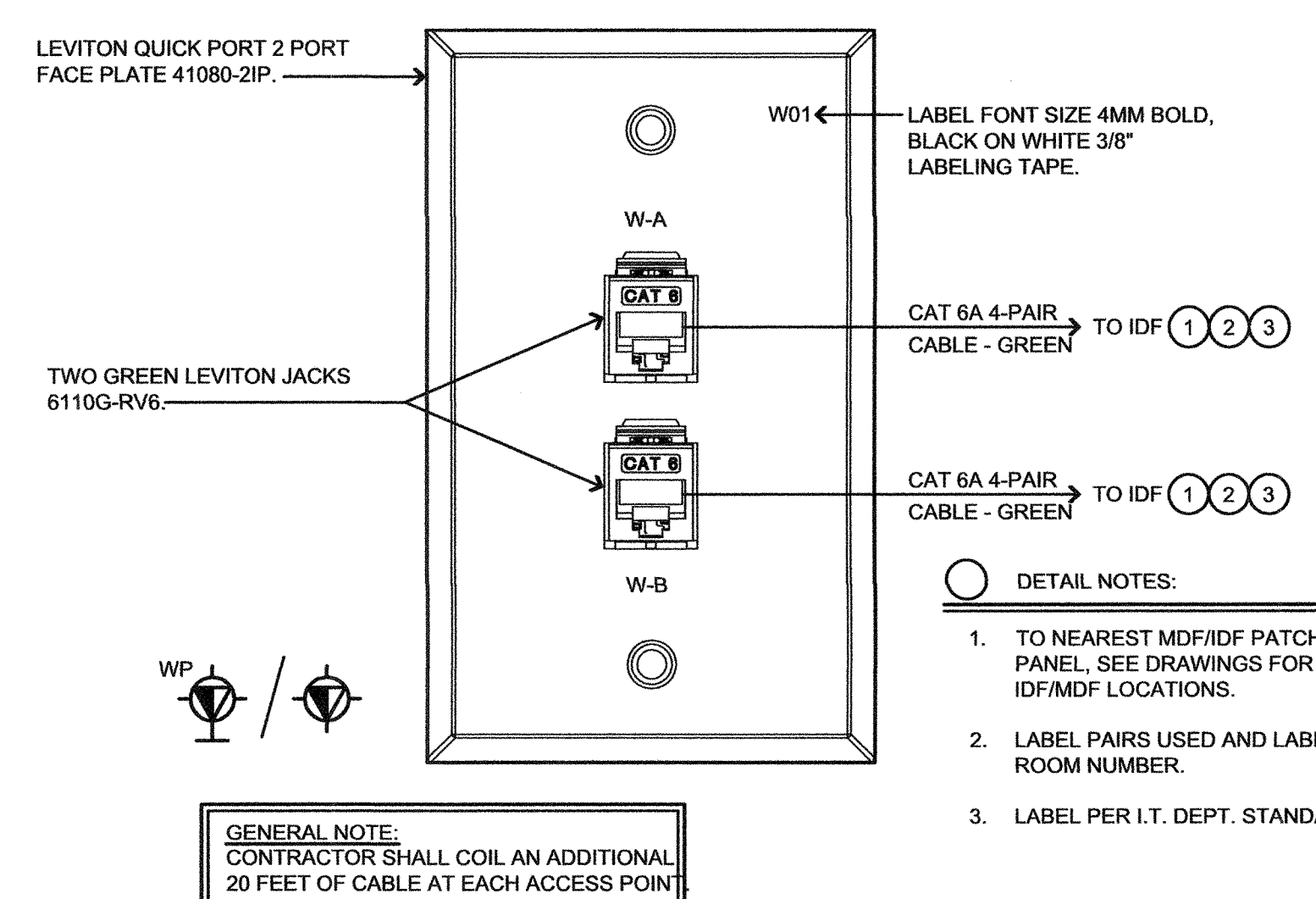
7 OCCUPANCY SENSOR WIRING DIAGRAM

NO SCALE



6 TELE/DATA RISER DIAGRAM

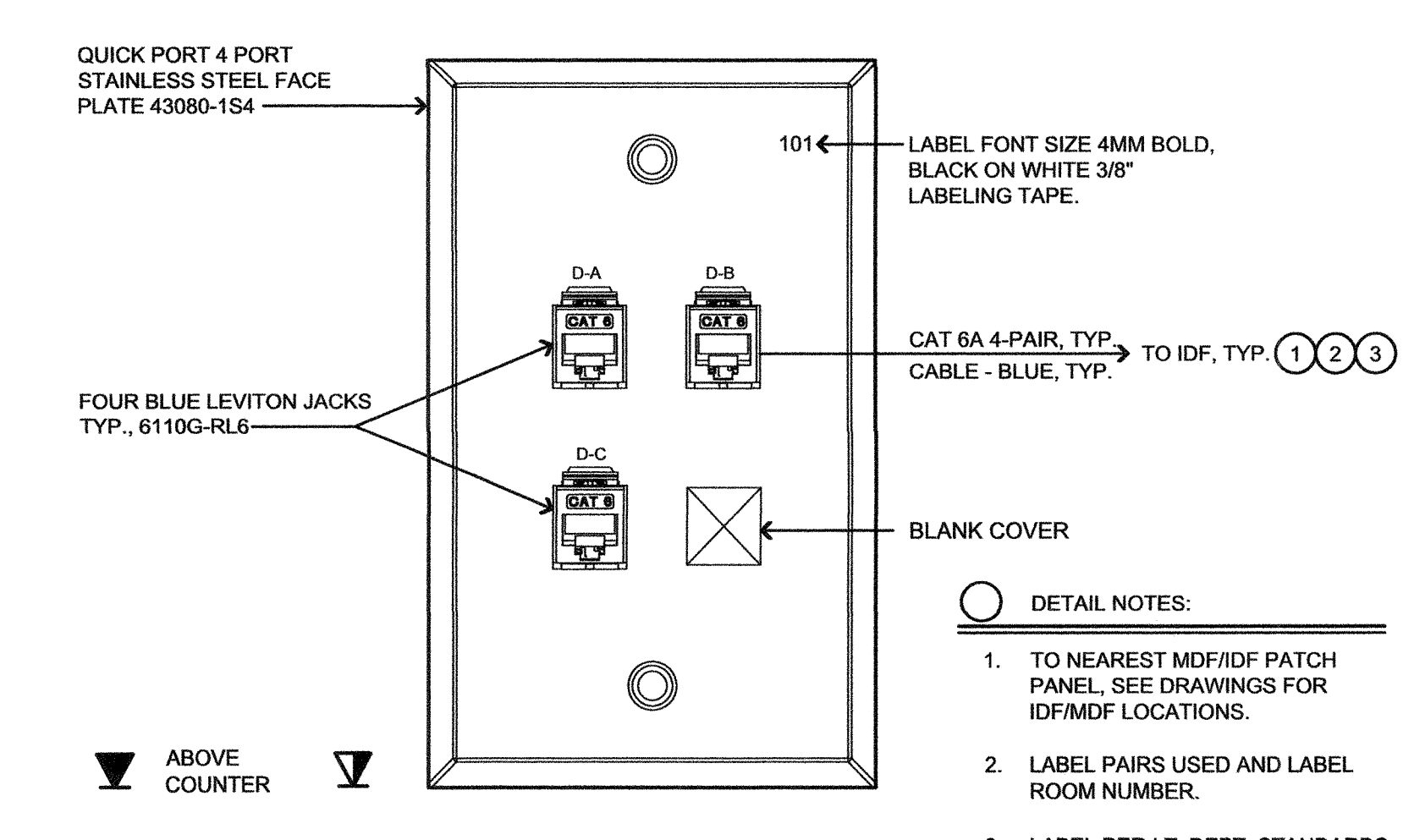
NO SCALE



- DETAIL NOTES:**
1. TO NEAREST MDF/IDF PATCH PANEL, SEE DRAWINGS FOR IDF/MDF LOCATIONS.
 2. LABEL PAIRS USED AND LABEL ROOM NUMBER.
 3. LABEL PER I.T. DEPT. STANDARDS.

5 WIRELESS OUTLET

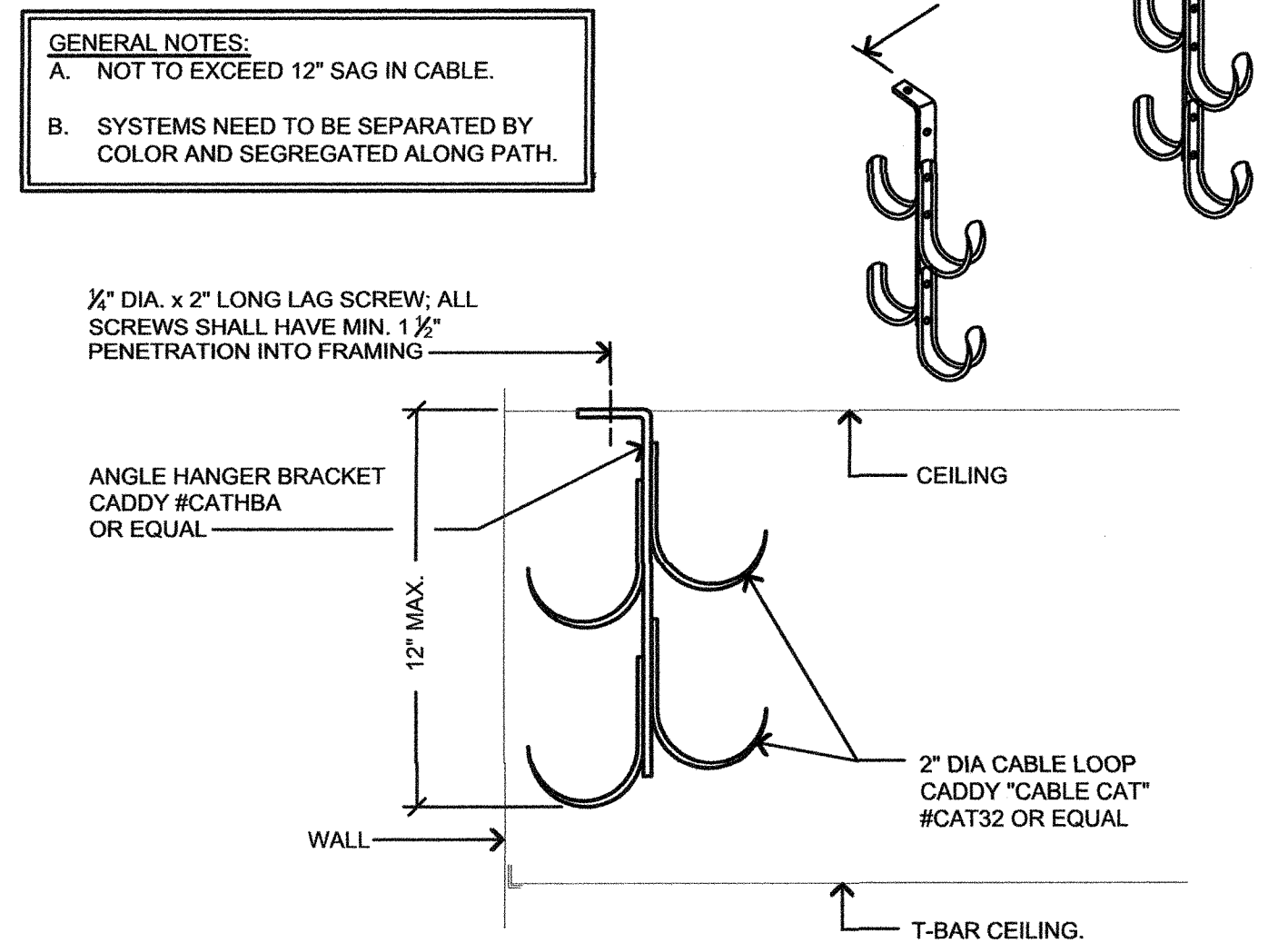
NO SCALE



- DETAIL NOTES:**
1. TO NEAREST MDF/IDF PATCH PANEL, SEE DRAWINGS FOR IDF/MDF LOCATIONS.
 2. LABEL PAIRS USED AND LABEL ROOM NUMBER.
 3. LABEL PER I.T. DEPT. STANDARDS.

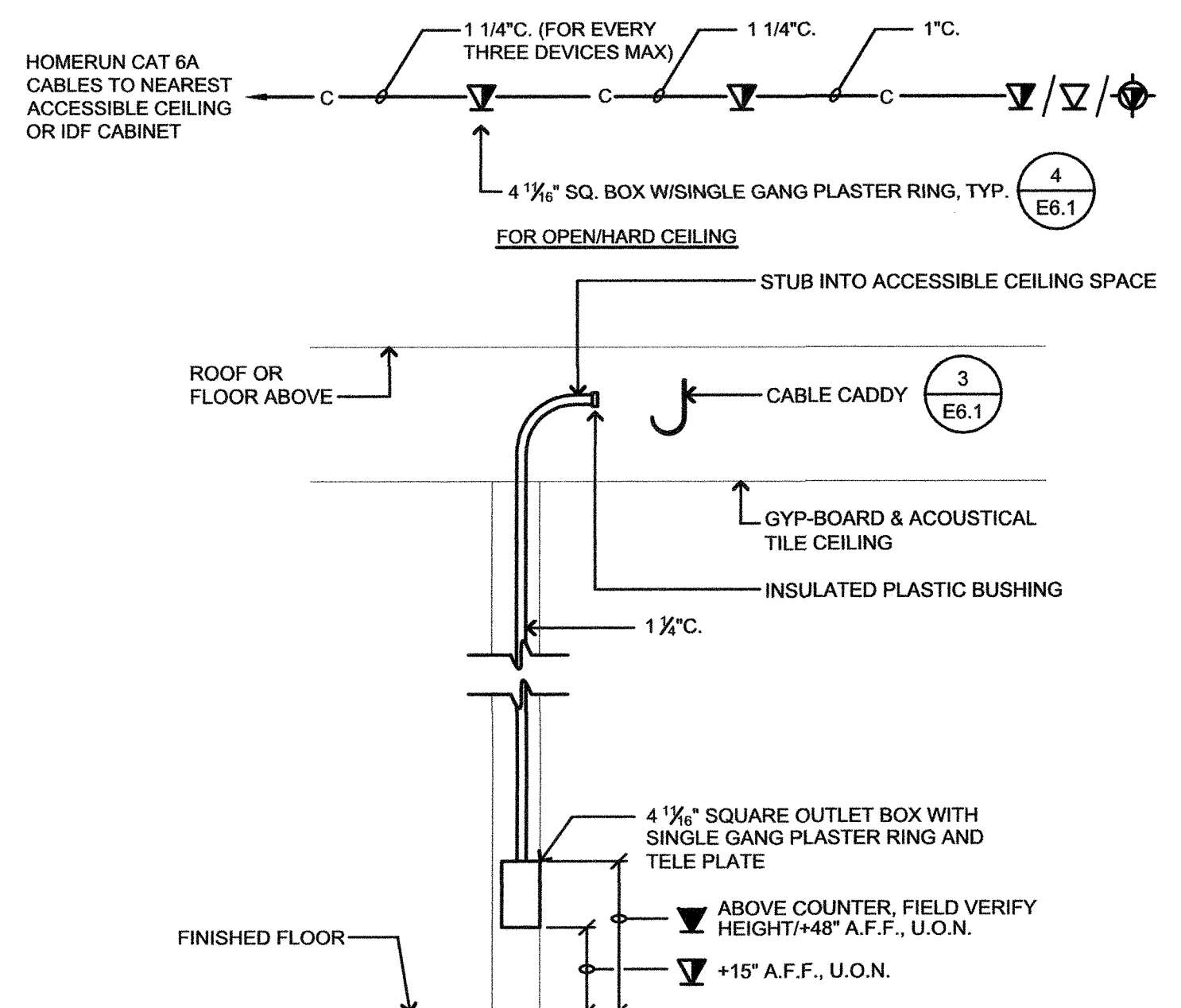
4 WORKSTATION OUTLET

NO SCALE



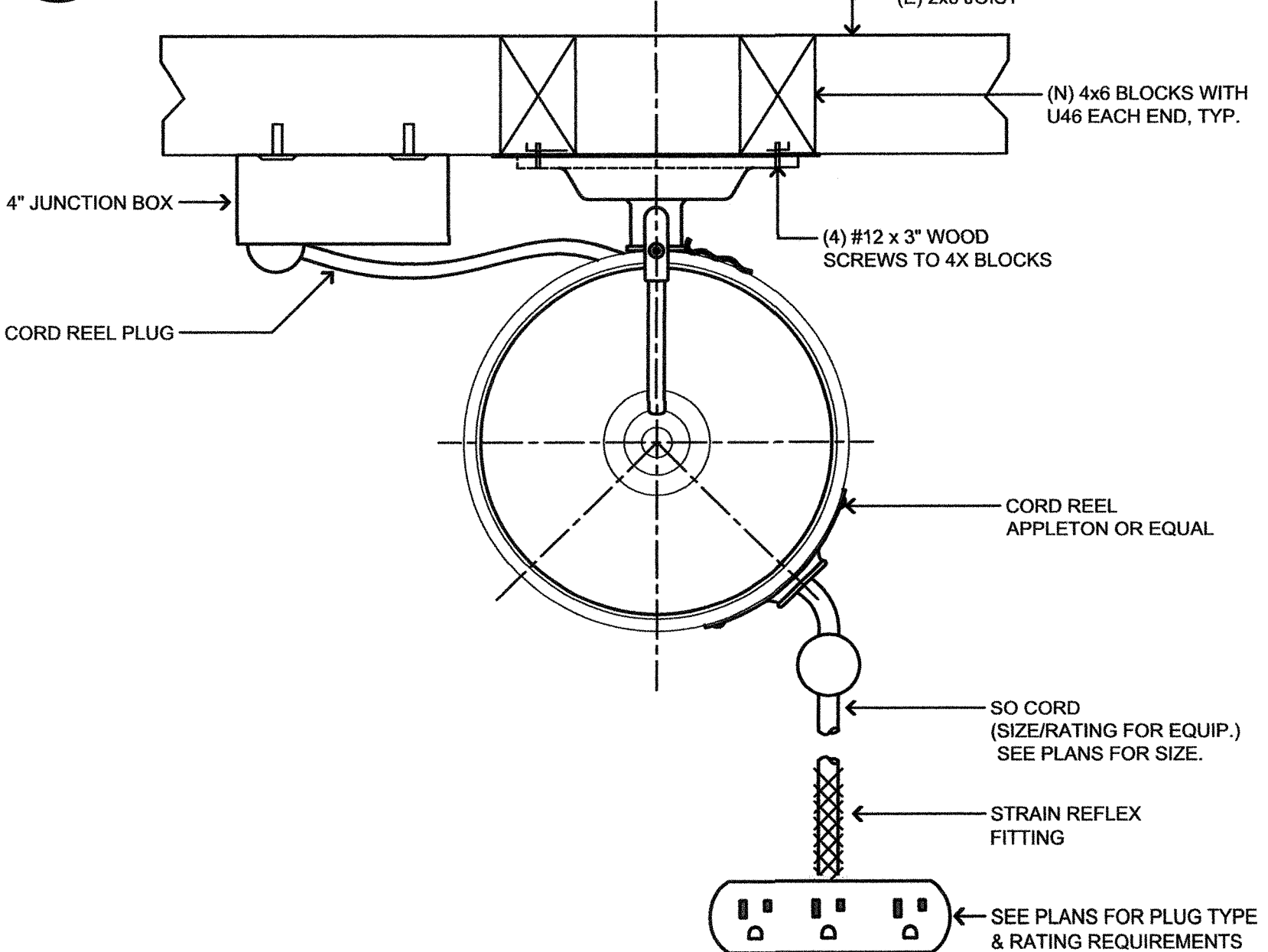
3 LOW VOLTAGE CABLE SUPPORT

NO SCALE



2 TELE/DATA OUTLET

NO SCALE



1 CORD REEL MOUNTING

NO SCALE

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IN STUDIO ARCHITECTURE
 250 MAIN STREET
 SALINAS, CA 93901
 831.320.2655

DATES

IDENTIFICATION STAMP
 DIVISION OF THE STATE ARCHITECT
 01-117638
 APPLICATION NUMBER
 AC 01 FL 0017 SS 10/22
 DATE 09-06-2018

REGISTERED PROFESSIONAL ENGINEER
 KEVIN ANKNEY
 No. E21045
 Exp. 3/31/19
 ELECTRICAL
 STATE OF CALIFORNIA

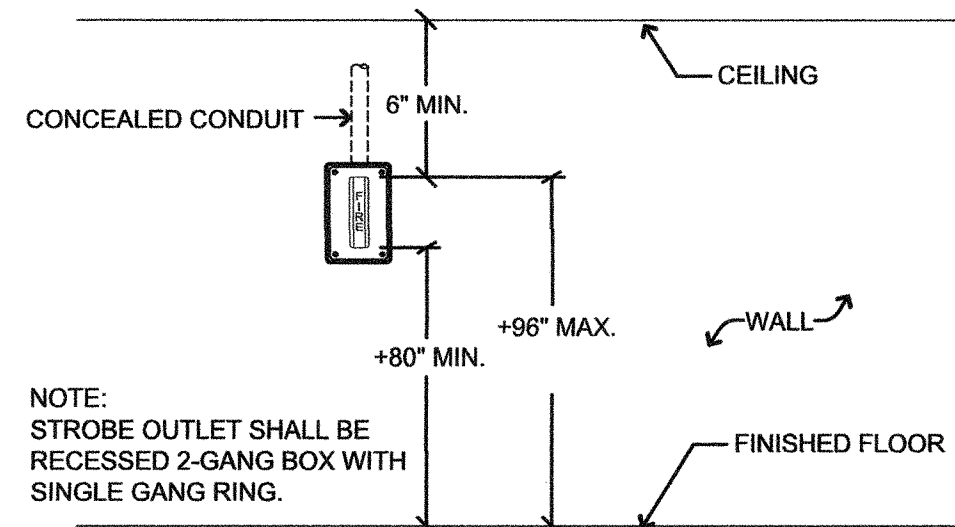
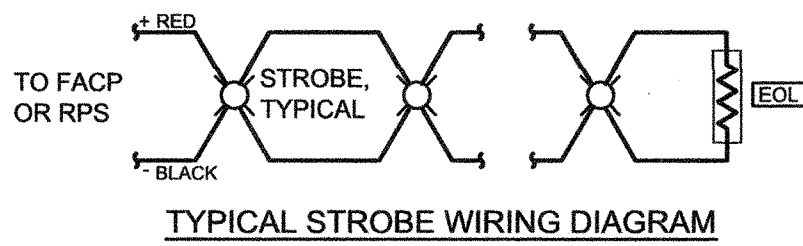
CLIENT
GAVILAN JOINT COMMUNITY COLLEGE DISTRICT
GAVILAN COLLEGE

PROJECT
HVAC CLASSROOM
 5055 SANTA TERESA BLVD.
 GILROY, CA 95020

SHEET
ELECTRICAL DETAILS

PROJECT NUMBER: 1817
 ISSUED: JUNE 28, 2018
 DRAWN BY: CADD
 CHECKED BY: N.A.
 FILENAME:

E6.1



1 STROBE INSTALLATION DETAIL

NO SCALE

FIRE ALARM EQUIPMENT LIST

SYMBOL	DESCRIPTION AND MODEL NUMBER	MFR'S PART No.	CSFM LISTING
[FACP]	EXISTING FIRE ALARM CONTROL PANEL.	EST EST-3/3-CAB14B	7165-1657-0186
[M]	OUTPUT MODULE/PLUG IN UIO MOUNT.	EST SIGA-MCC10	7300-1657-0210
[EOL]	FIRE STROBE CEILING MOUNT - SYNCHRONIZE (15, 30, 75, 95 CANDELA)	EST GCF-VM	7125-1657-0219

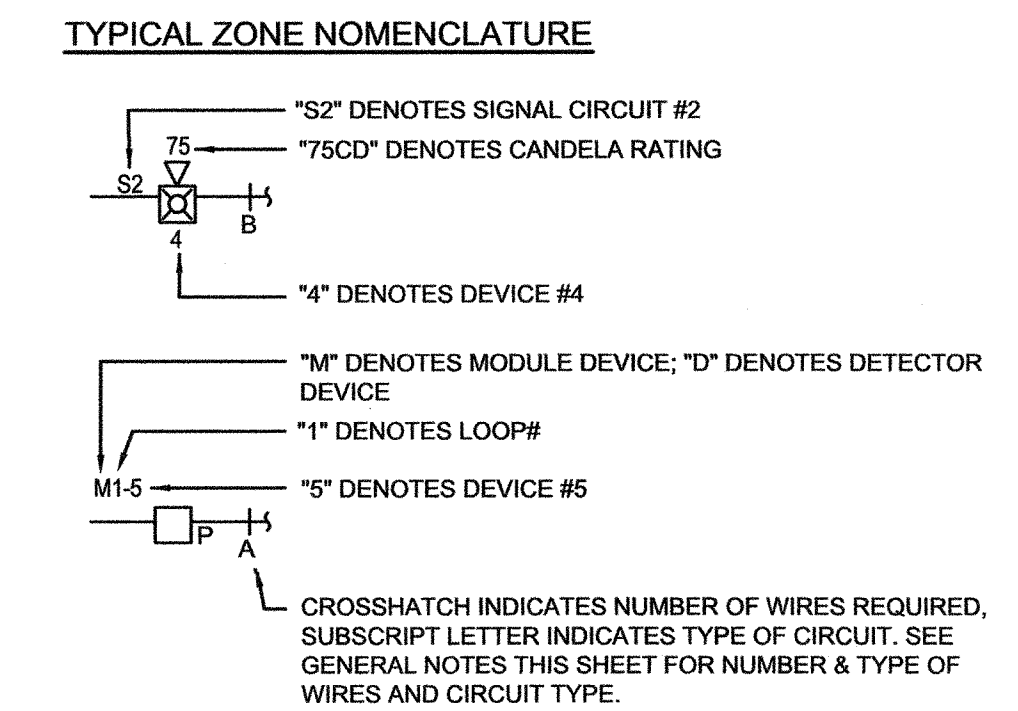
FIRE ALARM GENERAL NOTES

1. WIRING MUST BE LISTED FOR USE AS REQUIRED BY TITLE 24/CEC, ARTICLE 760.
2. WIRE USED IN WET LOCATIONS SHALL BE OF AN APPROVED TYPE IN ACCORDANCE WITH 3-310-8, T24/CEC (I.E. THHW OR EQUAL).
3. UNDER GROUND AND EXTERIOR CONDUITS TO HAVE WATERTIGHT FITTINGS AND WIRES APPROVED FOR WET LOCATION.
4. ALL CONDUCTORS SHALL BE ROUTED IN CONDUIT UNLESS SPECIFICALLY NOTED OTHERWISE ON PLANS. MINIMUM CONDUIT SIZE SHALL BE 3/4."
5. THE CONDUIT AND WIRE SHOWN ON THESE PLANS ARE SHOWN DIAGRAMMATICALLY. EXACT LOCATIONS SHALL BE DETERMINED IN THE FIELD TO SUIT FIELD CONDITIONS. "AS-BUILT" PLANS SHALL BE MAINTAINED AND BE PROVIDED AS REQUIRED BY THE PROJECT INSPECTOR OF RECORD.
6. PENETRATIONS OF FIRE RATED WALLS SHALL BE PROTECTED IN ACCORDANCE WITH CALIFORNIA BUILDING CODE, CHAPTER 7, TITLE 24. PROVIDE DETAILS OF THROUGH PENETRATION FIRE-STOP SYSTEMS FOR ALL PIPE/CABLE/CONDUIT PASSING THROUGH FIRE RATED WALLS/FLOORS REQUIRING PROTECTED OPENINGS.
7. ALL DEVICES SHALL BE "CSFM" LISTED.
8. EXTERIOR DEVICES SHALL BE LISTED FOR EXTERIOR USE BY "CSFM."
9. AUDIBLE ALARM PRODUCED BY "FACP" SHALL SOUND THE CALIFORNIA UNIFORM SIGNAL IN TEMPORAL MODE.
10. AUDIBLE FIRE ALARM SOUND LEVEL SHALL BE AT LEAST 15DBA ABOVE THE AVERAGE SOUND LEVEL.
11. AUDIBLE SIGNALS INTENDED FOR OPERATION IN THE PUBLIC SHALL HAVE A SOUND LEVEL OF NOT LESS THAN 75DBA AT 10 FEET OR MORE THAN 110DBA AT THE MINIMUM HEARING DISTANCES FROM THE AUDIBLE APPLIANCE.
12. WHERE VISUAL DEVICES ARE REQUIRED, VISUAL DEVICE SHOULD NOT EXCEED 2 FLASHES PER SECOND AND SHOULD NOT BE SLOWER THAN 1 FLASH EVERY SECOND. THE DEVICE SHALL HAVE A PULSING LIGHT SOURCE NOT LESS THAN 15 CANDELA. NO PLACE IN ANY ROOM SHALL BE MORE THAN 50 FEET FROM A DEVICE.
13. APPROVED BY THE "DIVISION OF THE STATE ARCHITECT/OFFICE OF REGULATION SERVICES" CONTRACTOR SHALL PROVIDE COPIES OF APPROVED PLANS TO THE PROJECT INSPECTOR OF RECORD PRIOR TO BEGINNING WORK. THE CONTRACTOR SHALL SUBMIT SHOP DRAWING TO ENGINEER PRIOR TO PURCHASE FOR REVIEW. THE FIRE PROTECTION SYSTEM SHALL NOT BE INSTALLED UNTIL SHOP DRAWINGS HAVE BEEN SUBMITTED TO AND RECEIVED BY THE ENGINEER OF RECORD.
14. FINAL ALARM TEST SHALL BE WITNESSED BY THE DSA INSPECTOR OF RECORD (IOR) AND THE LOCAL FIRE AUTHORITY SHALL BE NOTIFIED OF DATE AND TIME OF FINAL FIRE ALARM TESTING BY THE FIRE ALARM CONTRACTOR. FIRE ALARM CONTRACTOR SHALL PROVIDE "RECORD OF COMPLETION" TO THE INSPECTOR OF RECORD (IOR)/DSA AFTER COMPLETION OF OPERATIONAL ACCEPTANCE TEST.
15. POWER SERVICE SHALL BE ON A DEDICATED, 120V BRANCH CIRCUIT, WITH A RED MARKING AND IDENTIFIED AS "FIRE ALARM CIRCUIT CONTROL."
16. AUTOMATIC FIRE ALARM SYSTEM SHALL TRANSMIT THE ALARM, SUPERVISORY AND TROUBLE SIGNALS TO AN APPROVED SUPERVISING STATION AS REQUIRED BY NFPA 72 AS AMENDED BY CFC CHAPTER 80. THE SUPERVISING STATION SHALL BE LISTED AS EITHER UUIFY OR UUIS BY UNDERWRITERS LABORATORY OR SHALL MEET THE REQUIREMENTS OF FACTORY MUTUAL RESEARCH APPROVAL STANDARD 3011.

SYMBOLS & ABBREVIATIONS

- SYMBOLS**
- CONDUIT - CONCEALED IN WALLS OR CEILING.
 - CONDUIT - IN OR BELOW FLOOR: 3/4" MIN.
 - CONDUIT CONTINUATION.
 - 201 ROOM NUMBER.
 - 2 SHEET NOTE REFERENCE SYMBOL; SEE ASSOCIATED NOTE ON SAME SHEET.
 - E1 DETAIL OR SECTION DESIGNATION.

- ABBREVIATIONS**
- | | | | |
|-------|--------------------------|-----|---------------------------------|
| ARCH. | ARCHITECT | FSD | FIRE SMOKE DAMPER |
| AWG | AMERICAN WIRE GAUGE | IDC | INITIATING DEVICE CIRCUITS |
| BKR | BREAKER | (N) | NEW |
| C | CONDUIT | NAC | NOTIFICATION APPLIANCE CIRCUITS |
| CB | CIRCUIT BREAKER | NIC | NOT IN CONTRACT |
| CKT | CIRCUIT | NO | NUMBER |
| CLG | CEILING | SLC | SIGNALING LINE CIRCUITS |
| (E) | EXISTING | TYP | TYPICAL |
| EOL | END OF LINE | UON | UNLESS OTHERWISE NOTED |
| FA | FIRE ALARM | WP | WEATHERPROOF |
| FACP | FIRE ALARM CONTROL PANEL | | |
| FBO | FURNISHED BY OTHERS | | |



FIRE ALARM SYSTEM OPERATIONAL MATRIX

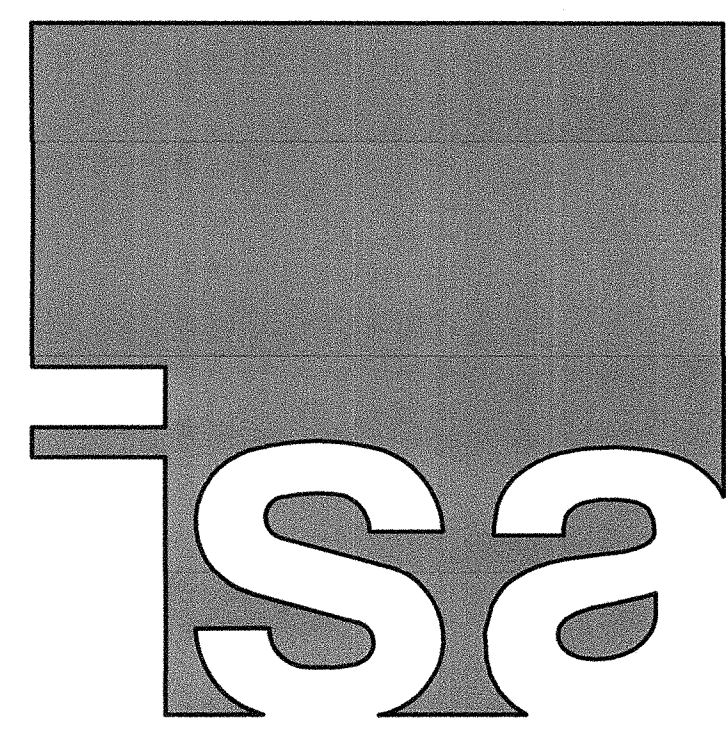
CAUSE	EFFECT												REMARKS	
	ALARM AT FACP	ALARM AT ANNUNCIATOR	ALARM AT CONTROL PANEL	ACTIVATE AUDIBLE BELL	ACTIVATE AUDIOVISUALS	TROUBLE AT FACP	TROUBLE AT ANNUNCIATOR	TROUBLE AT CONTROL PANEL	SUPERVISORY AT FACP	SUPERVISORY AT ANNUNCIATOR	SUPERVISORY AT CONTROL PANEL	FAI SHUT DOWN		DETECTIVE REVIEWS
SMOKE DETECTORS	•	•	•	•	•									
HEAT DETECTORS	•	•	•	•	•									
MANUAL PULL STATIONS	•	•	•	•	•									
SIGNAL SILENCE	•	•	•	•	•									
SYSTEM RESET														
AC POWER FAILURE						•	•	•						
TROUBLE (OPEN, SHORTS, GROUNDS) ON INITIATION OR SIGNAL CIRCUITS						•	•	•						

PROJECT DESCRIPTION

SCOPE OF WORK:
EXTENSION OF EXISTING ADDRESSABLE FIRE ALARM SYSTEM.

SYSTEM DESCRIPTION:
SLC = CLASS B
IDC = CLASS B
NAC = CLASS B

BY: NAJIB ANWARY, P.E.



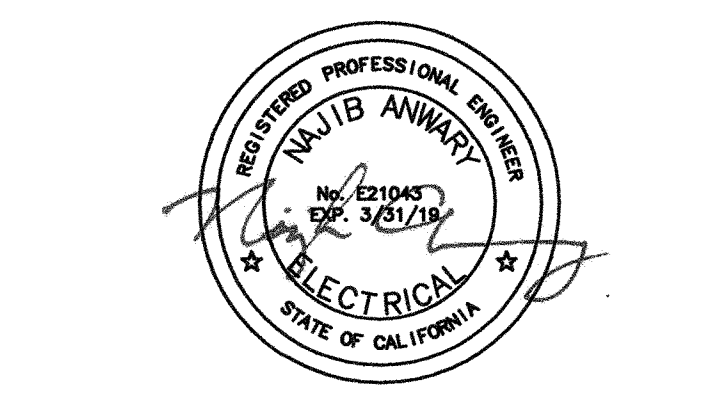
IN STUDIO ARCHITECTURE
250 MAIN STREET
SALINAS, CA 93901
831.320.2655

DATES

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT

01-117638
APPLICATION NUMBER

AC: NA FL: [Signature] SS: [Signature]
DATE: 09-06-2018



CLIENT

GAVILAN JOINT COMMUNITY COLLEGE DISTRICT



PROJECT

HVAC CLASSROOM

5055 SANTA TERESA BLVD.
GILROY, CA 95020

SHEET

SYMBOLS, ABBREV., EQUIPMENT LIST, OPERATIONAL MATRIX, DETAILS & NOTES

PROJECT NUMBER: 1817
ISSUED: JUNE 28, 2018
DRAWN BY: CADD
CHECKED BY: N.A.
FILENAME:

AURUM CONSULTING ENGINEERS
MONTEREY BAY, INC.

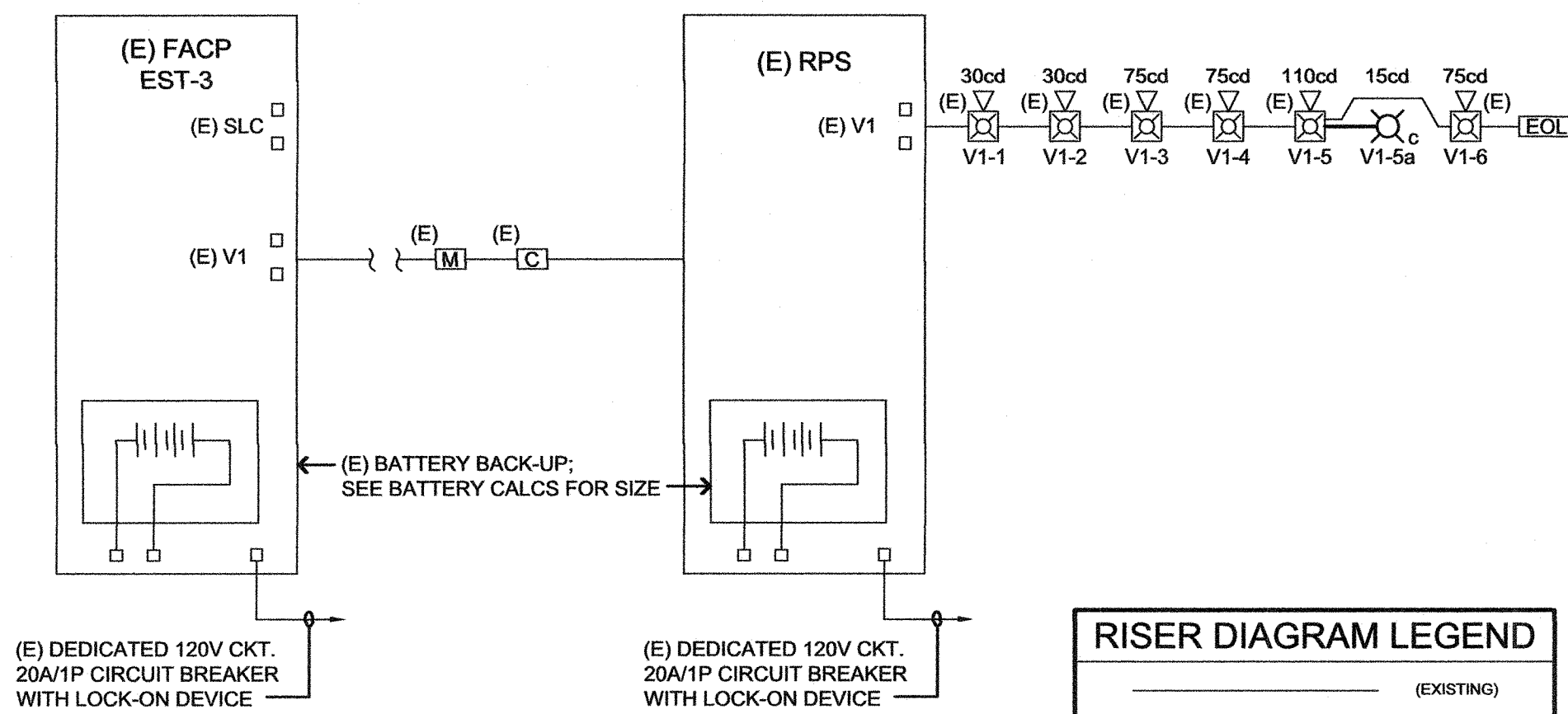
Project No. 17558.00

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FA0.1

BATTERY & VOLTAGE DROP CALCULATIONS



DEVICE #	1st	2nd	3rd	4th	5th	6th	7th	8th	9th	10th
GAUGE WIRE	12	12	12	12	12	12	12	12	12	12
DISTANCE (FT)	30	50	50	100	150	50	100			
AMPS OF DEVICE	0.167	0.167	0.281	0.281	0.337	0.063	0.281	0	0	0
TOTAL AMPS @ DEV.	1.577	1.41	1.243	0.962	0.681	0.344	0.281	0	0	0
VOLT. DROP @ DEV.	0.156	0.233	0.206	0.316	0.338	0.057	0.093	0	0	0
TOTAL CIRCUT AMPS =	1.577									
TOTAL WIRE SIZE	10									
TOTAL WIRE RESIS. (M FT.)	1.29									
TOTAL WIRE RESIS. (MILS.)	10380									
TOTAL WIRE RESIS. (I ² FEET * 21.6)	1.401									
CKT VOLTAGE =	20.4									
% VOLTAGE DROP =	6.9%									

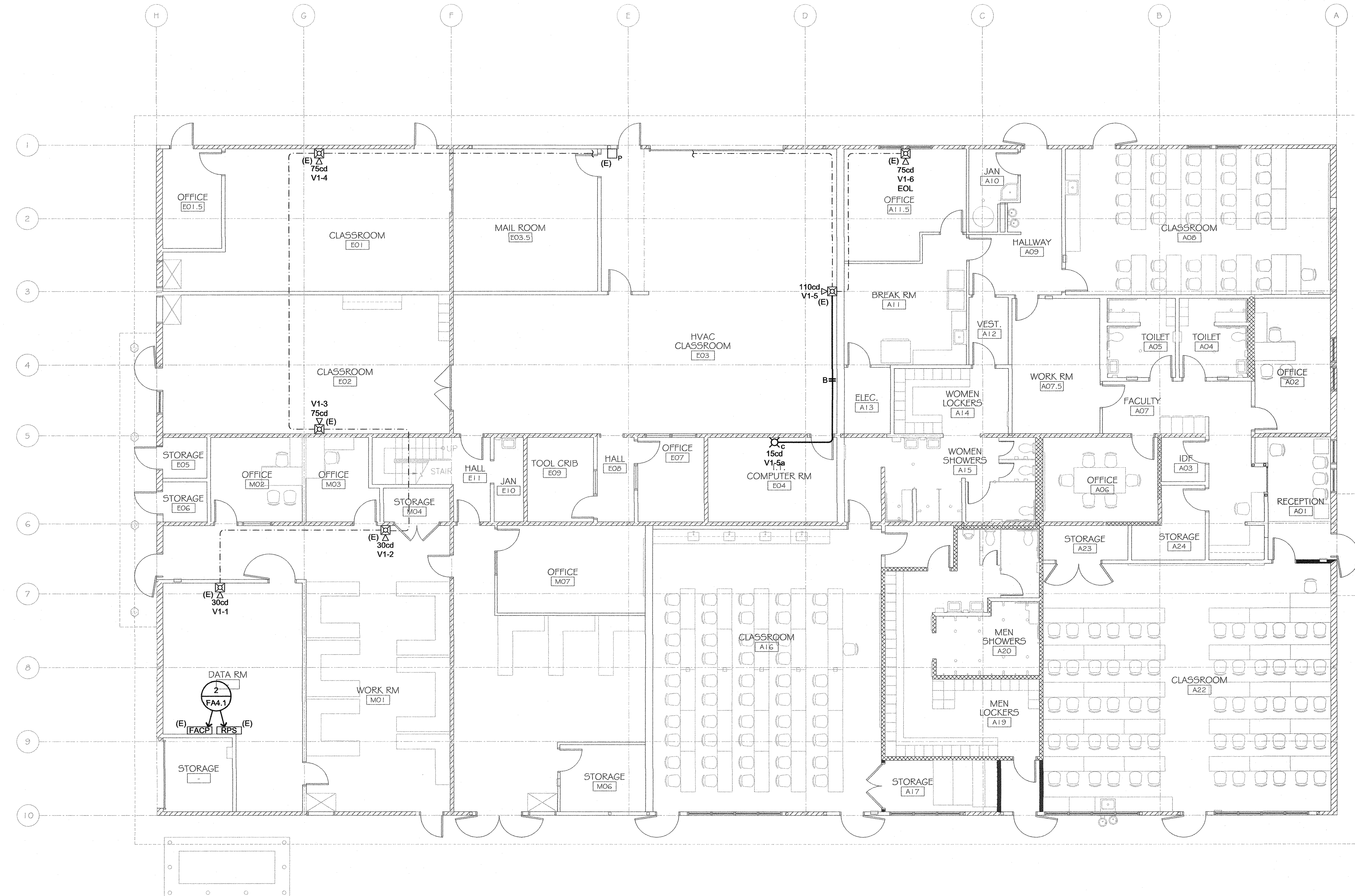
QTY	MODEL No.	DEVICE DESCRIPTION	STANDBY		ALARM	
			EACH	TOTAL	EACH	TOTAL
1	PS-8	WHEELOCK REMOTE POWER SUPPLY	0.1200	0.1200	0.1200	0.1200
1	V1	VISUAL CIRCUIT No. V1	0.0000	0.0000	1.5770	1.5770
PANEL STANDBY CURRENT			0.1200		1.7000	
PANEL ALARM CURRENT					1.7000	
TOTAL SYSTEM CURRENT			0.1200		3.0000	
DESCRIPTION			TOTAL STANDBY CURRENT (A)		TOTAL ALARM CURRENT (A)	
			0.1200		3.0000	
			X 24 HOUR STANDBY		7.2000	
			TOTAL ALARM CURRENT (A)		1.7000	
			15 MINUTES OF ALARM (X 25)		4.2500	
			TOTAL BATTERY REQUIREMENT (A*H)		3.5250	
			SAFETY MARGIN (20%)		4.2300	
			BATTERY SUPPLIED (27AH)		7AH	

QTY	PRODUCT ID	DESCRIPTION	STANDBY		ALARM	
			EACH	TOTAL	EACH	TOTAL
1	EST3	(E) FIRE ALARM CONTROL PANEL CONNECTIONS	0.5416	0.5416	0.9740	0.9740
PANEL STANDBY CURRENT			0.5416		0.9740	
PANEL ALARM CURRENT					0.9740	

QTY	PRODUCT ID	DESCRIPTION	STANDBY		ALARM	
			EACH	TOTAL	EACH	TOTAL
FIELD DEVICES			0.5416		0.9740	
CONTROL PANEL			0.5416		0.9740	
FIELD DEVICES			0.0000		0.0000	
TOTAL STANDBY CURRENT			0.5416		0.9740	
X 24 HOUR STANDBY			12.9984		2.3360	
TOTAL ALARM CURRENT					0.9740	
15 MINUTES OF ALARM (X 25)					2.4350	
TOTAL BATTERY REQUIREMENT					13.2410	
SAFETY MARGIN (20%)					15.8893	
BATTERY SUPPLIED					(2) 12V 17AH	

2 FIRE ALARM RISER DIAGRAM

NO SCALE



CABLE LEGEND

TYPE A = DENOTES INITIATING DETECTION CIRCUITS (SMOKE DETECTOR, HEAT DETECTOR ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) #14 SHIELDED PAIR. RUNS MARKED WITH CROSSHATCHES INDICATE THE NUMBER OF PAIRS WHEN MORE THAN ONE.

TYPE B = DENOTES NOTIFICATION APPLIANCE CIRCUITS (HORN, STROBES, BELL ETC.) UNLESS OTHERWISE NOTED, PROVIDE (1) PAIR OF #12 AWG. RUNS MARKED WITH CROSSHATCHES INDICATE THE NUMBER OF PAIRS WHEN MORE THAN ONE.

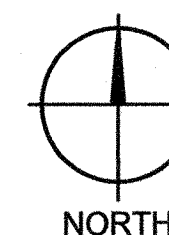
GENERAL NOTE:

FOR MOUNTING AND WIRING OF INITIATING DEVICES AND NOTIFICATION APPLIANCES SEE SHEET FA.01.

1 FIRE ALARM PLAN

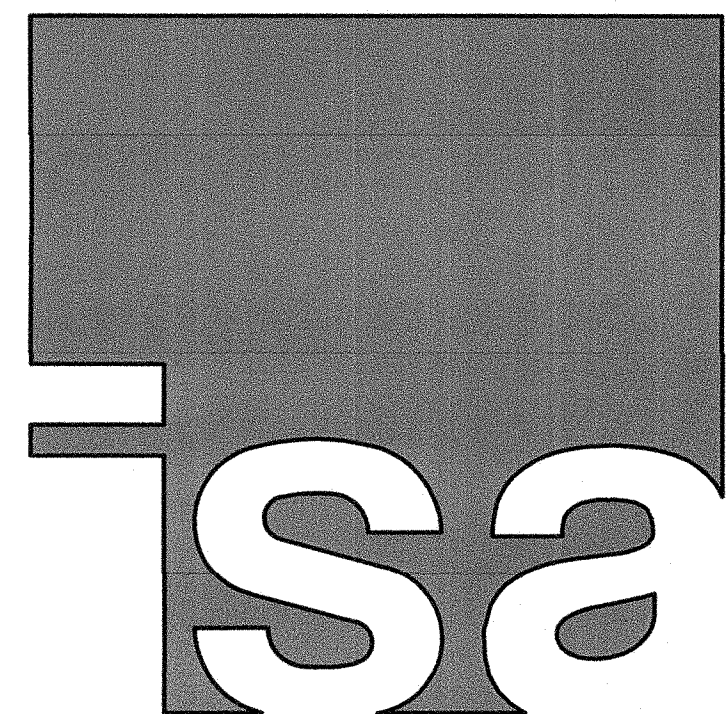
SCALE: 1/8"=1'-0"

8' 0' 2' 4' 6' 8'



AURUM CONSULTING ENGINEERS
MONTEREY BAY, INC.
Project No. 17558.00
60 Garden Court • Suite 210 • Monterey, CA 93940
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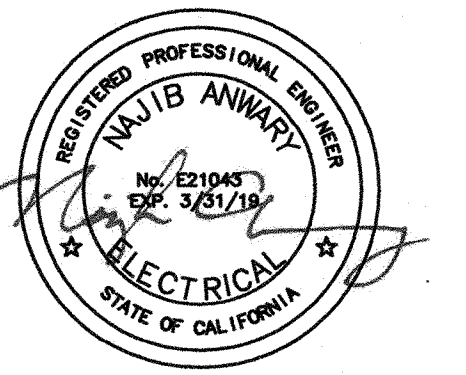


IN STUDIO ARCHITECTURE
250 MAIN STREET
SALINAS, CA 93901
831.320.2655

DATES

IDENTIFICATION STAMP
DIVISION OF THE STATE ARCHITECT
01-117638
APPLICATION NUMBER
AC *DM* FL *SM* SS *WJG*
DATE **09-06-2018**

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CLIENT

GAVILAN JOINT COMMUNITY COLLEGE DISTRICT



PROJECT

HVAC CLASSROOM

5055 SANTA TERESA BLVD.
GILROY, CA 95020

SHEET

**FIRE ALARM PLAN,
RISER DIAGRAM,
BATTERY & VOLTAGE
DROP CALCULATIONS**

PROJECT NUMBER: 1817
ISSUED: JUNE 28, 2018
DRAWN BY: CADD
CHECKED BY: N.A.
FILENAME:

FA4.1

