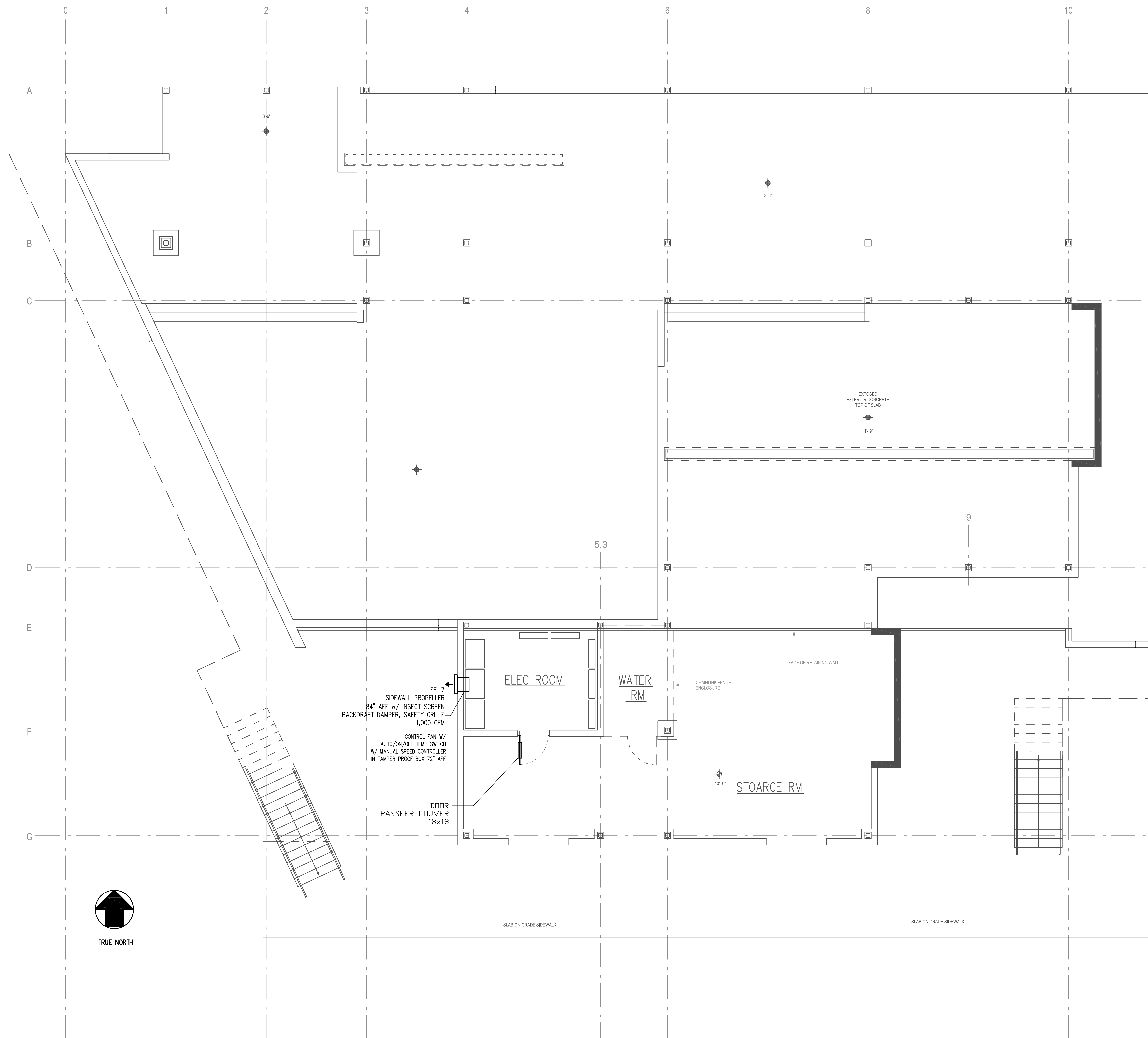


AUGUST 11, 2008  
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BUILDING ENERGY EFFICIENCY STANDARDS  
THE BUILDING ENERGY EFFICIENCY STANDARDS HAVE BEEN REVIEWED AND TO THE BEST OF MY KNOWLEDGE THIS DESIGN SUBSTANTIALLY CONFORMS TO THE MECHANICAL REQUIREMENTS OF SECTIONS 11.

NAME: CHARLES P. CAVEDONI  
SIGNATURE: \_\_\_\_\_  
TITLE: MECHANICAL ENGINEER  
PE: 9507-M



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NOMENCLATURE

- SD SUPPLY DAMPER
- RR RETURN REGISTER
- ER EXHAUST REGISTER
- DL TRANSFER DOOR LOUVER
- VD VOLUME DAMPER
- BD BACK DRAFT DAMPER
- SA SUPPLY AIR
- RA RETURN AIR
- OS OUTSIDE AIR
- SD SUPPLY DIFFUSER
- RR RETURN REGISTER
- CFM CUBIC FEET PER MINUTE
- AHU AIR HANDLER UNIT
- ACCU AIR COOLED CONDENSER
- EF EXHAUST FAN
- S SUPPLY DUCT
- R RETURN DUCT

**HAKALAU ENGINEERING, LLC.**  
PO BOX 252  
HAKALAU, HI 96710  
(808) 961-6202

PROPOSED NEW BUILDING:  
**ENERGY LAB**  
**HAWAII PREPARATORY ACADEMY**  
KAMUELA, HAWAII 96720

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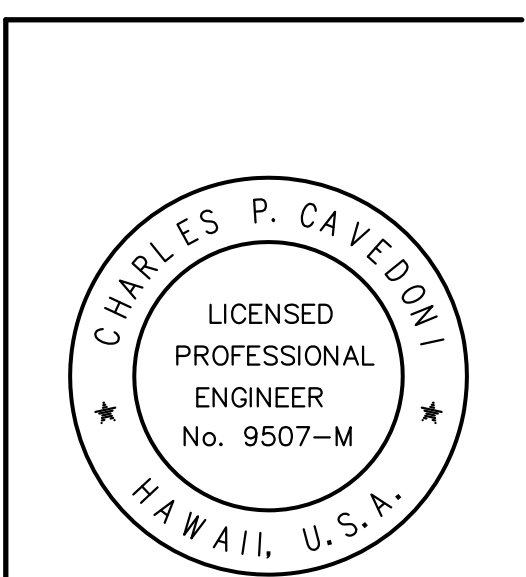
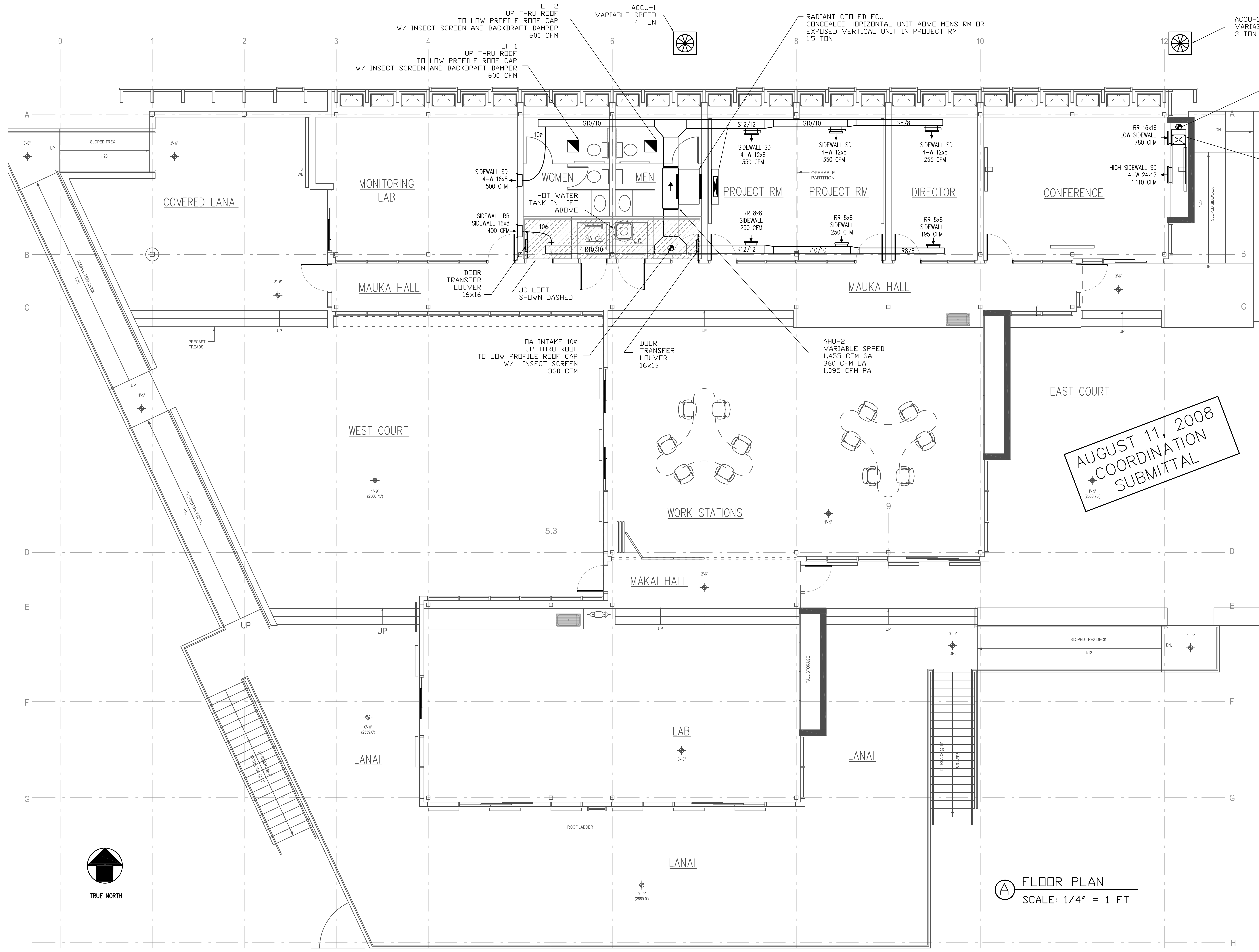
Ⓐ **BASEMENT PLAN**  
SCALE: 1/4" = 1 FT

DATE ISSUED: XX/XX/XX

DRAWN BY: CPC

SHEET NO. **M1.0**

1 OF 6 SHEET



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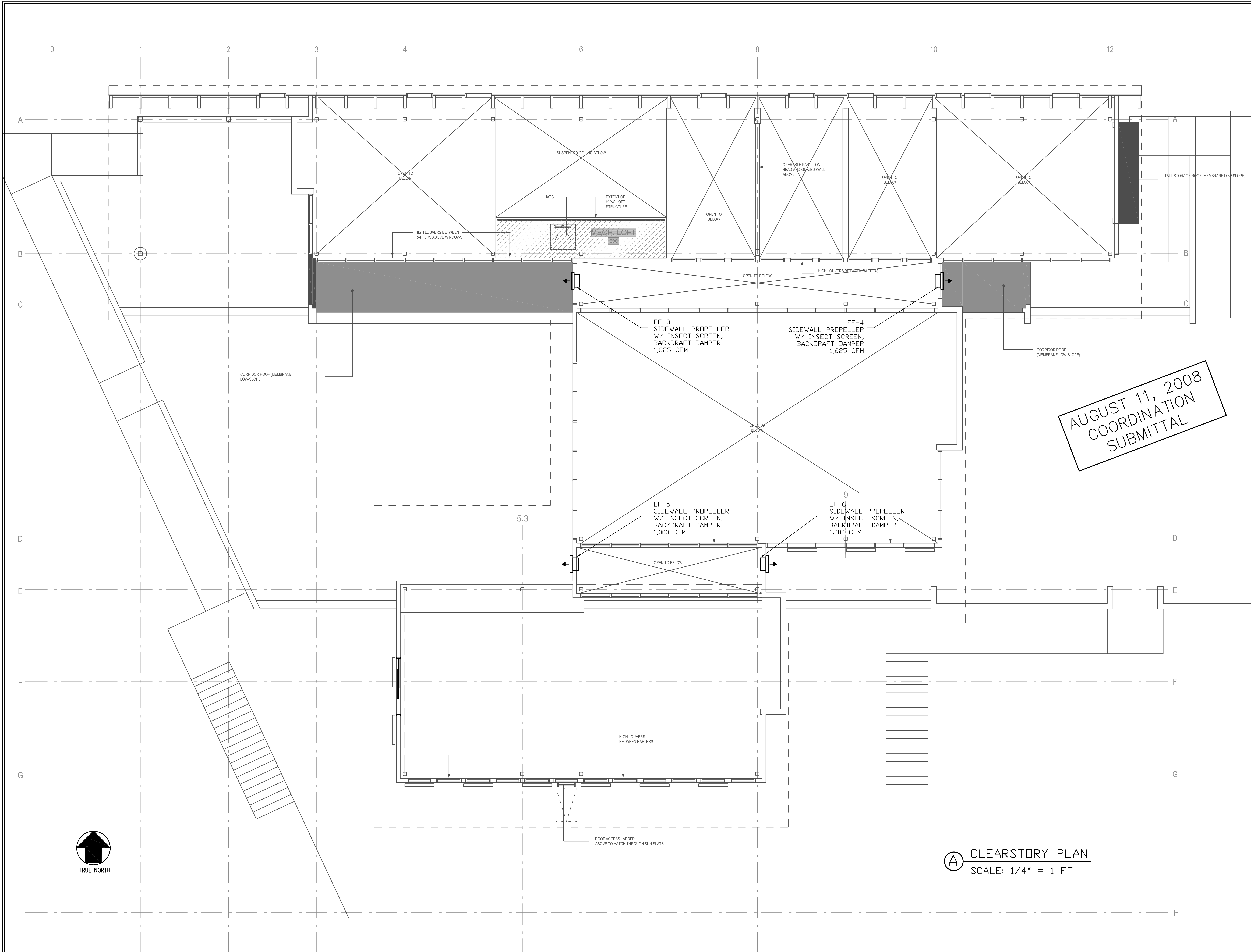
DATE ISSUED: XX/XX/XX

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SHEET NO. **M1.1**

1 OF 6 SHEET

**(A) FLOOR PLAN**  
SCALE: 1/4" = 1 FT

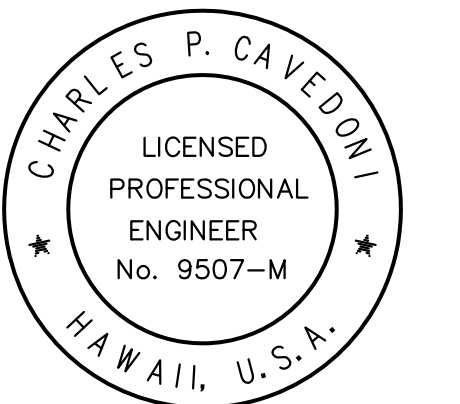


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TRUE NORTH

Ⓐ CLEARSTORY PLAN  
SCALE: 1/4" = 1 FT



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SHEET NO. **M1.2**

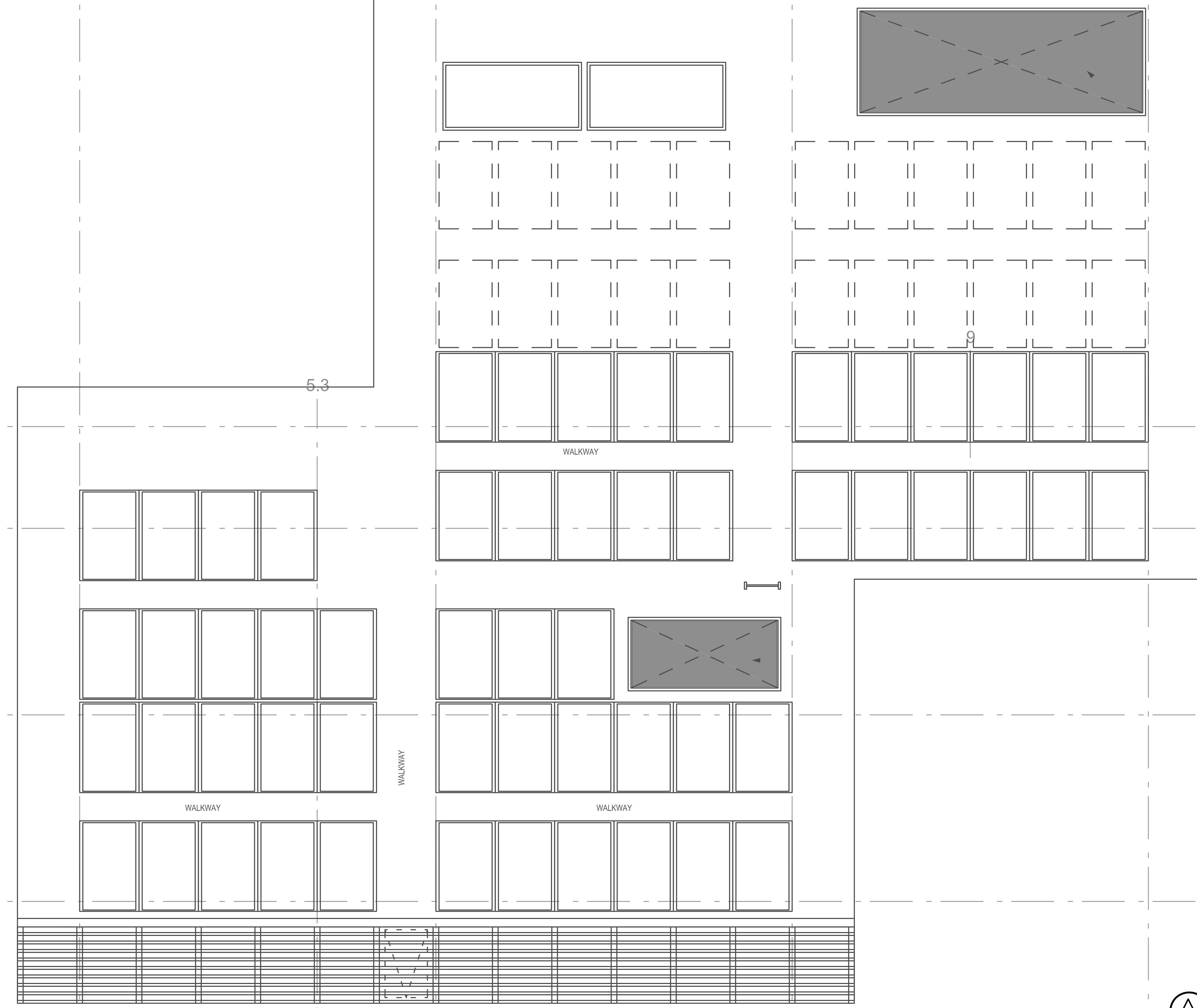
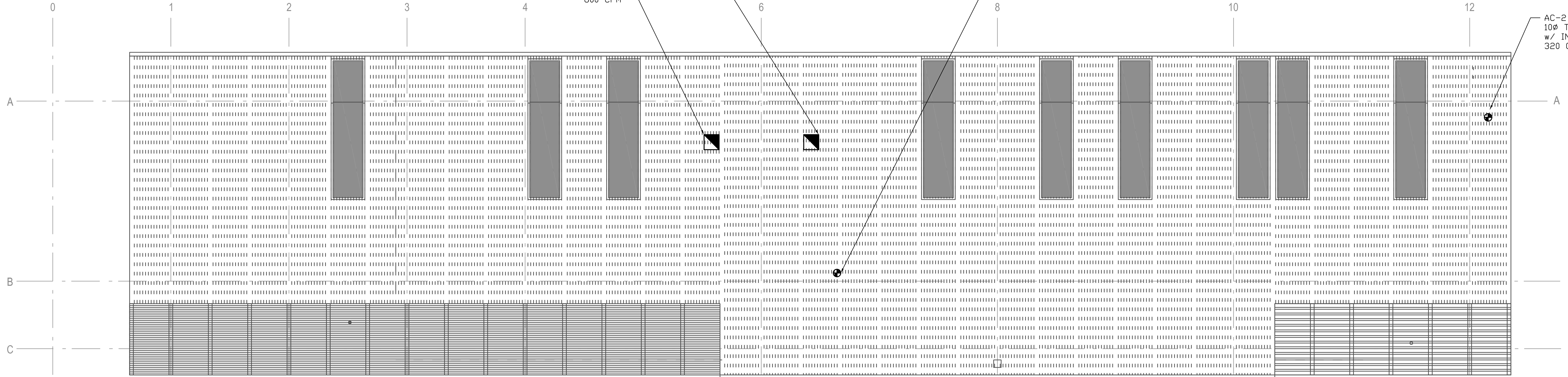
2 OF 6 SHEET

MENS BATH EXHAUST LOUVER  
12" TO LOW PROFILE ROOF CAP  
w/ INSECT SCREEN AND BACKDRAFT DAMPER  
600 CFM

WOMENS BATH EXHAUST LOUVER  
12" TO LOW PROFILE ROOF CAP  
w/ INSECT SCREEN AND BACKDRAFT DAMPER  
600 CFM

AC-2 OUTSIDE AIR INLET LOUVER  
10" TO LOW PROFILE ROOF CAP w/ INSECT SCREEN  
MAINTAIN MIN. 12 FT FROM ANY EXHAUST LOUVERS  
360 CFM

AC-2 OUTSIDE AIR INLET LOUVER  
10" TO LOW PROFILE ROOF CAP  
w/ INSECT SCREEN  
320 CFM



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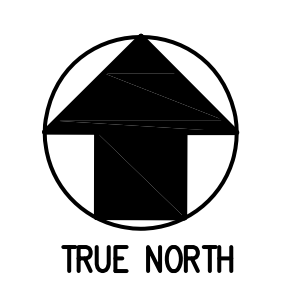
DATE ISSUED: XX/XX/XX

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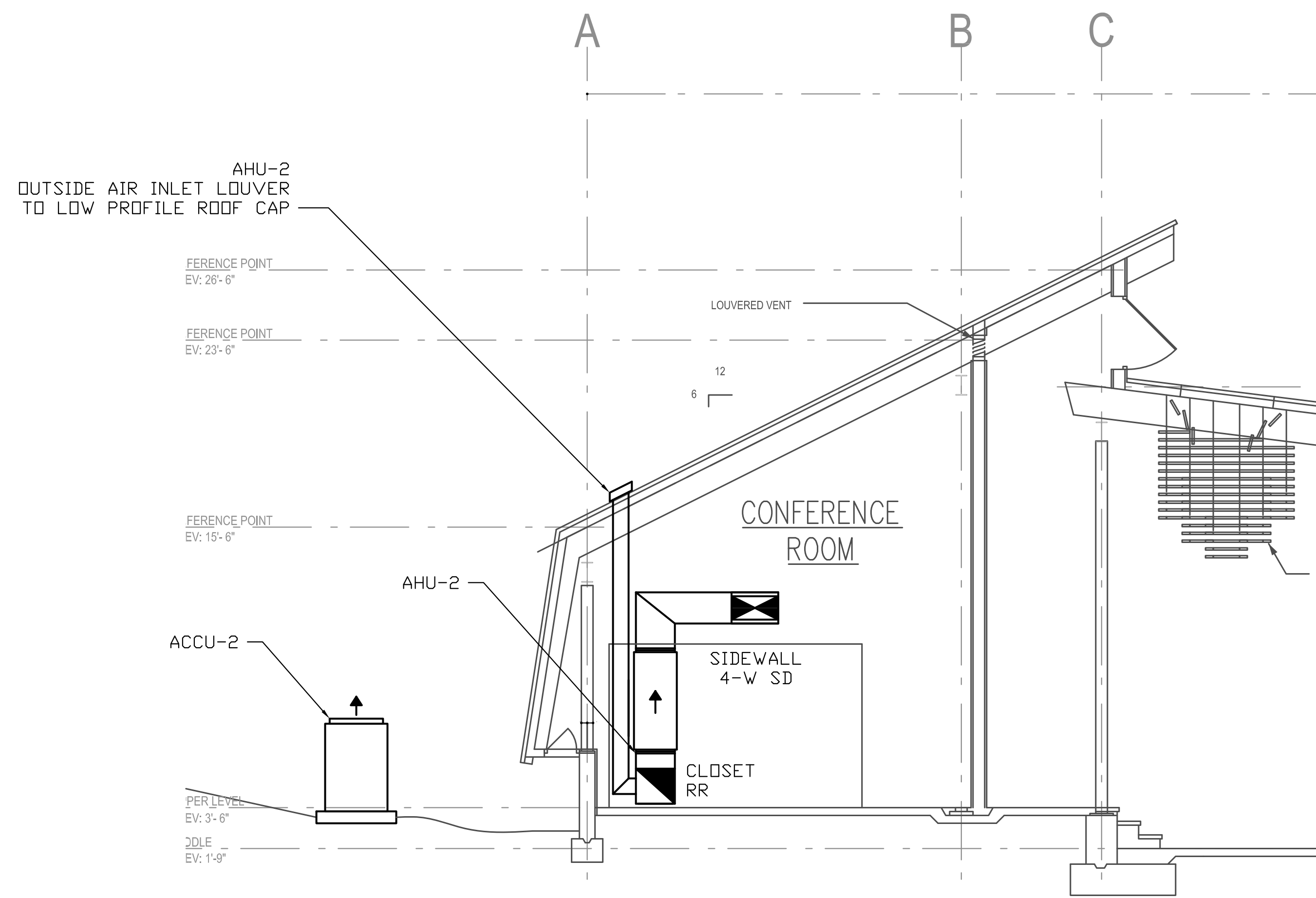
SHEET NO. **M1.3**

4 OF 6 SHEET

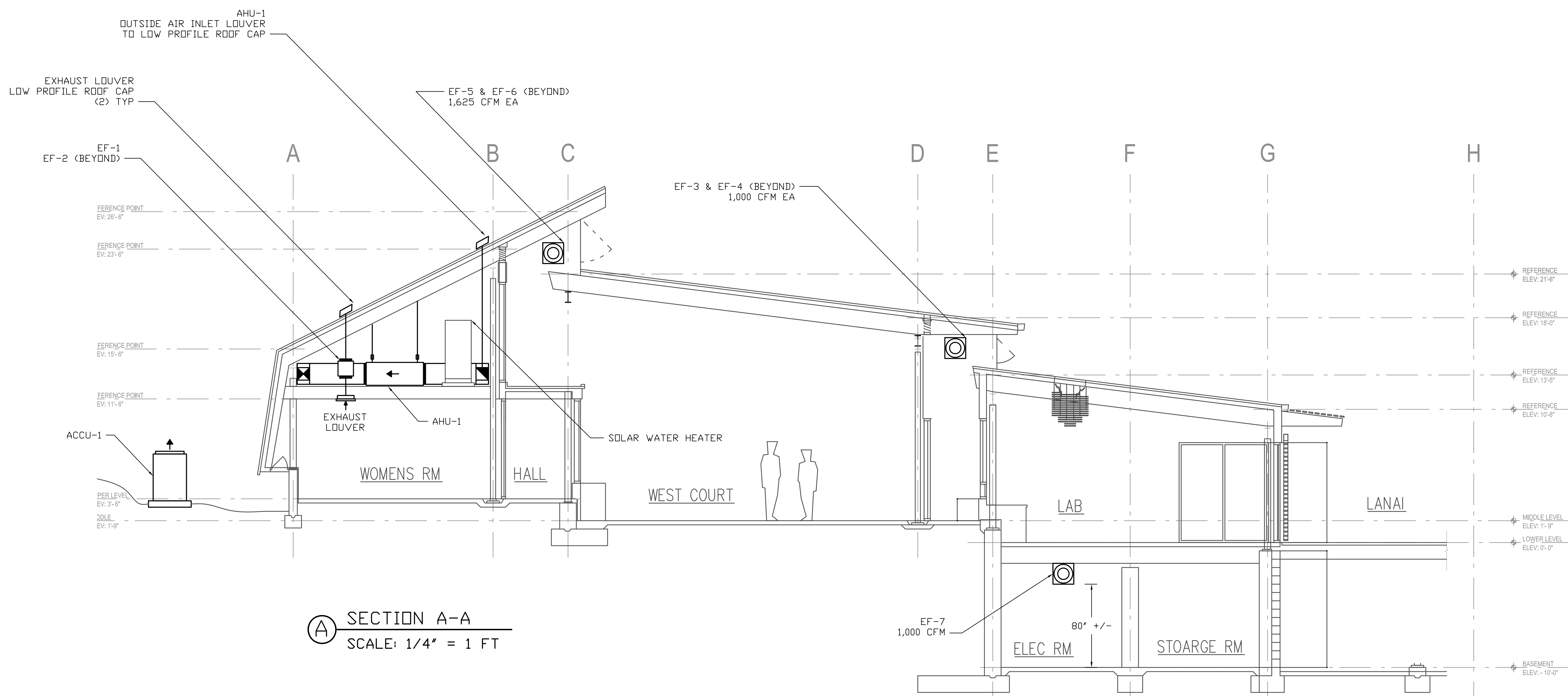
**(A) ROOF PLAN**  
SCALE: 1/4" = 1 FT



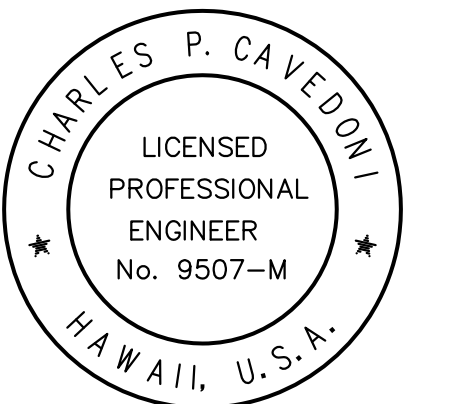
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SECTION B-B  
SCALE: 1/4" = 1 FT



SECTION A-A  
SCALE: 1/4" = 1 FT



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SHEET NO. **M1.4**

5 OF 6 SHEET