

City and County of Honolulu
State energy conservation code

To the best of my knowledge, this project's design substantially conforms to the State energy conservation code (2015 IECC as amended) for **mechanical systems** (Sections C403, C404 and C408).

COMPLIANCE METHOD

- 2015 IECC as amended. Mandatory & Prescriptive
- 2015 IECC as amended. Mandatory & Total Building Performance
- ASHRAE Standard 90.1-2013. Mandatory & Prescriptive
- ASHRAE Standard 90.1-2013. Mandatory & Energy Cost Budget

INFORMATION IN CONSTRUCTION DOCUMENTS

	Yes	N/A
HVAC Systems		
Equipment capacity and efficiency. C403.2.3	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Thermostatic controls C403.2.4	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Guest room door switches. C403.2.4.2.4	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Ventilation rate C403.2.6	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Demand control ventilation controls C403.2.6.1	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Enclosed parking garage ventilation control. C403.2.6.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Energy recovery ventilation system. C403.2.7	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Kitchen exhaust systems. C403.2.8	<input checked="" type="checkbox"/>	<input checked="" type="checkbox"/>
Duct and plenum insulation thickness/R-value. C403.2.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Duct and plenum sealing requirements. C403.2.9	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pipe insulation thickness/R-value. C403.2.10	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fan motor horsepower. C403.2.12	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fan efficiency. C403.2.12	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Fan motor efficiency. C405.8	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Pump motor efficiency. C405.8	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Variable-flow fan control. C403.4.1	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Static pressure sensor location. C403.4.1.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Static pressure reset control. C403.4.1.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chilled water variable flow control. C403.4.2.4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Chiller isolation. C403.4.2.6	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Cooling tower fan control. C403.4.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Terminal unit minimum and maximum airflow. C403.4.4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Commissioning requirements. C408.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Refrigeration		
Refrigeration equipment efficiency. C403.2.14	<input checked="" type="checkbox"/>	<input type="checkbox"/>
Walk-in coolers and freezers. C403.2.15, C403.2.16 & C403.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Refrigerated warehouses. C403.2.15 & C403.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Refrigerated display cases. C403.2.17 & C403.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Service Water Heating		
Heat recovery for service water heating. C403.4.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Equipment capacity and efficiency. C404.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Pipe insulation. C404.4	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hot water pipe length/volume. C404.5	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Hot water circulation controls. C404.6	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Heated pool and spa covers. C404.9.3	<input type="checkbox"/>	<input checked="" type="checkbox"/>
Commissioning requirements. C408.2	<input type="checkbox"/>	<input checked="" type="checkbox"/>

NOTES

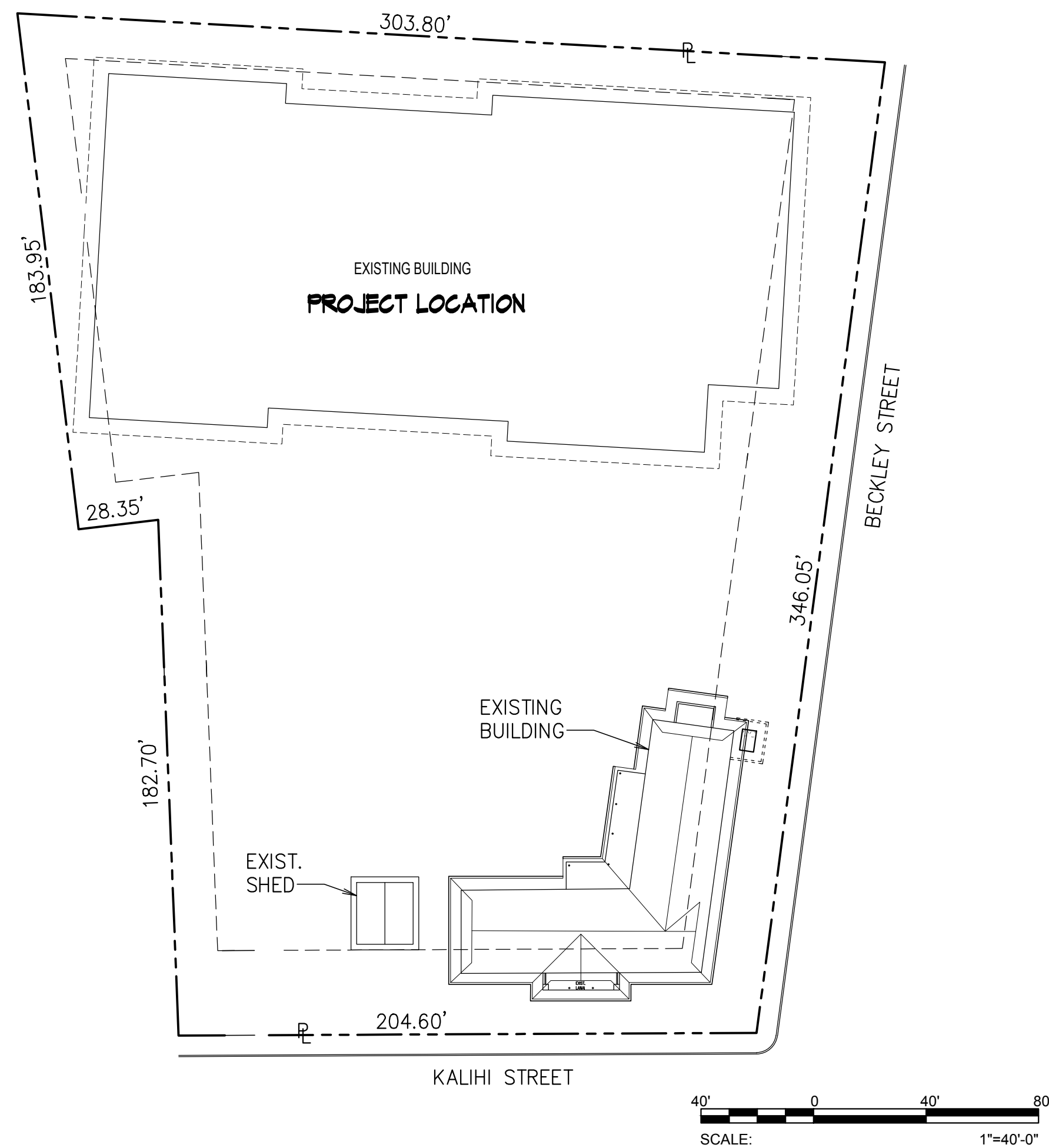
SIGNATURE: *Dwayne C. Sudweeks*

DATE: 05/21/2021

NAME: Dwayne Sudweeks

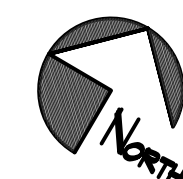
TITLE: MECHANICAL ENGINEER

LICENSE NO.: 12930



OVERALL SITE PLAN

SCALE 1" = 100 FT



CITY AND COUNTY OF HONOLULU
REVISED ORDINANCES OF HONOLULU 1990
CHAPTER 32

To the best of my knowledge, this project's design substantially conforms to the Building Energy Conservation Code for:

- Building Component Systems
- Electrical Component Systems
- Mechanical Component Systems

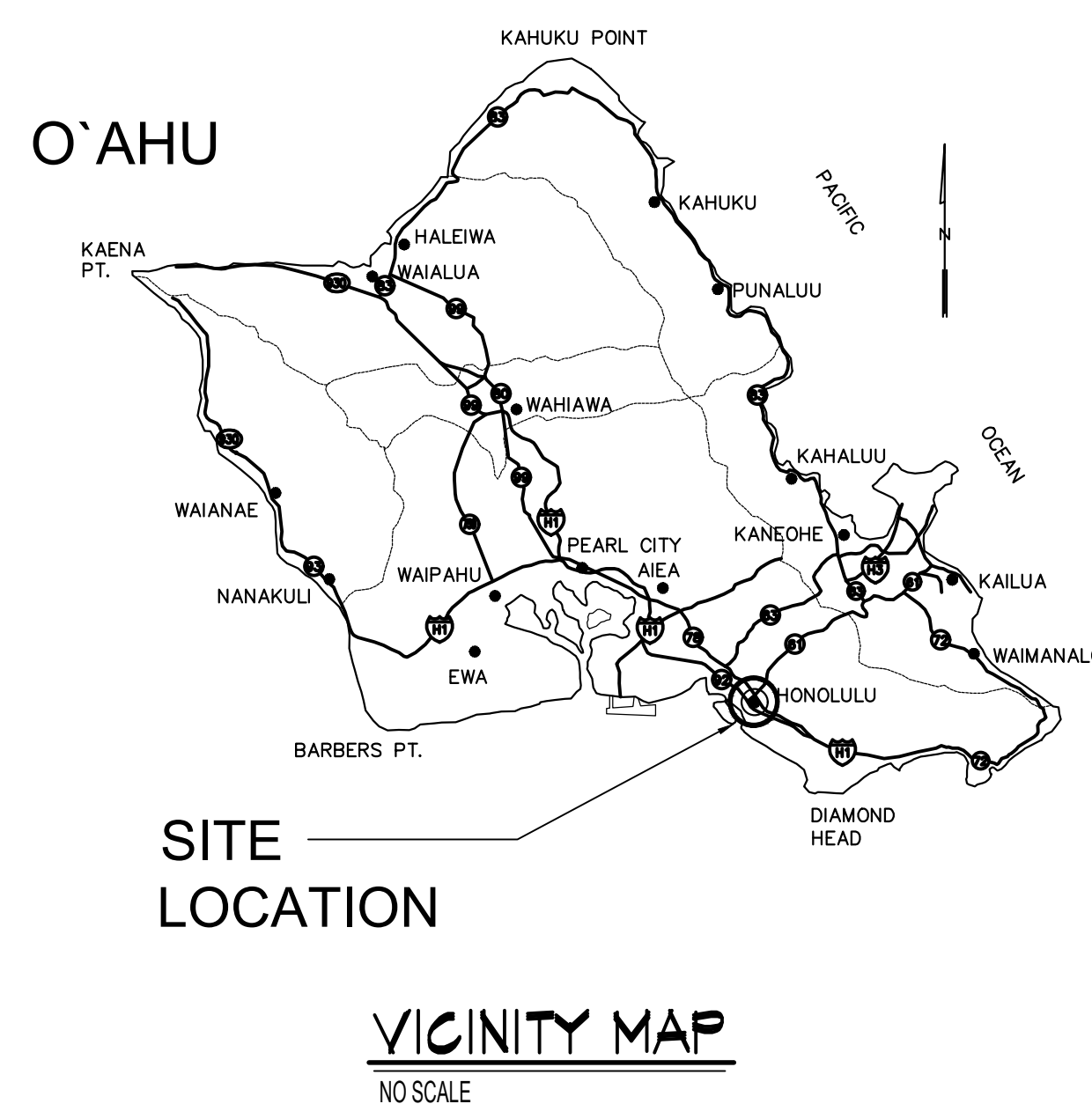
Signature: *Dwayne C. Sudweeks*

Date: 27 AUG 2021

Name: DWAYNE C. SUDWEEKS

Title: MECHANICAL ENGINEER

License No.: 12930-M



SITE LOCATION

VICINITY MAP

NO SCALE

APPLICABLE CODES

- 2012 INTERNATIONAL BUILDING CODE
- 2015 INTERNATIONAL ENERGY CONSTRUCTION CODE.
- 2012 UNIFORM PLUMBING CODE
- 2017 NATIONAL ELECTRICAL CODE.

SHEET INDEX

M000	COVER SHEET, SHEET INDEX, & PLOT PLAN
M100	MAIN FLOOR MECHANICAL DEMO PLAN
M101	MAIN FLOOR MECHANICAL PLAN
M102	ENLARGED SECTION VIEWS
M201	MECHANICAL SCHEDULES
M202	MECHANICAL DETAILS
M301	CONTROLS
M302	CONTROLS
M303	CONTROLS
E000	COVER SHEET
E100	MECHANICAL POWER DEMOLITION PLAN
E101	MECHANICAL POWER INSTALLATION PLAN
E200	SINGLE-LINE AND ELECTRICAL DETAILS
E201	PANEL SCHEDULES
E300	LIGHTING INSTALLATION PLAN

Architect / Engineer:

P.C. Architects Inc.
Dennis B. Patten, AIA
P.O. Box 217
St. George, UT 84771
(435) 673-6579

Expiration date of license: 04/30/22

This work was prepared by me or under my supervision. Construction of this project will be under my observation.
Dwayne C. Sudweeks
Professional Engineer
License No. 12930-M
Mechanical Engineering

Project Name:
KALIHI RE-ROOF AND HVAC REFURBISHMENT
HONOLULU, HAWAII WEST STAKE
TMK: 1-3-005-17
1120 Kahlili St. (1723 Beckley St.) Honolulu, HI 96819

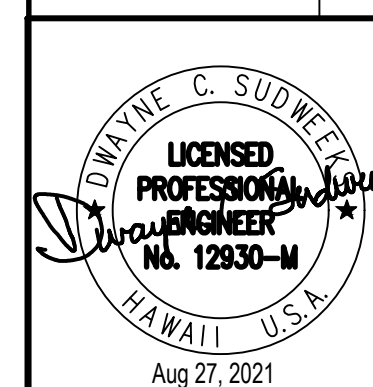
Owner:
THE CHURCH OF JESUS CHRIST OF LATTER-DAY SAINTS

MECHANICAL LEGEND

SYMBOL	DESCRIPTION
	ELECTRONIC THERMOSTAT
	EQUIPMENT SYMBOL
	HAND DAMPER
	ROUND BRANCH DUCT WITH HAND DAMPER
	INSULATED FLEXIBLE DUCT
	RETURN AIR OR EXHAUST GRILLE
	CEILING DIFFUSER

GENERAL NOTES:

- A- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL CHECK AND VERIFY ALL DIMENSIONS PRIOR TO BID AND CONNECTIONS ON THE JOB SITE. ALL WORK SHALL BE EXECUTED FROM MEASUREMENTS TAKEN AT THE SITE.
- B- THE MECHANICAL CONTRACTOR SHALL BE RESPONSIBLE TO INSURE PROPER CODE CLEARANCES FOR ELECTRICAL AND MECHANICAL ACCESS WHEN INSTALLING ANY EQUIPMENT SUPPLIED BY THE MECHANICAL CONTRACTOR.
- C- IT IS CRITICAL THAT THIS CONTRACTOR COORDINATE EQUIPMENT LOCATIONS WITH PIPING, DUCTWORK, ELECTRICAL CONDUIT AND BUILDING STRUCTURE TO INSURE CODE COMPLIANCE.
- D- COORDINATE CEILING GRID WITH GENERAL CONTRACTOR PRIOR TO CONSTRUCTION FOR BEST POSSIBLE LOCATIONS OF DIFFUSERS/GRILLES.



Engineered Systems Associates
1355 EAST CENTER
POCATELLO, IDAHO 83201
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ESA JOB NUMBER: 20078

1	09-01-2021	BID SET	Description

Project Number:
PCA-2013
Plan Series:
EXISTING
Property Number:
500-0031-919010101

Sheet Title: **COVER SHEET, SHEET INDEX, & PLOT PLAN**

Sheet:

M000