

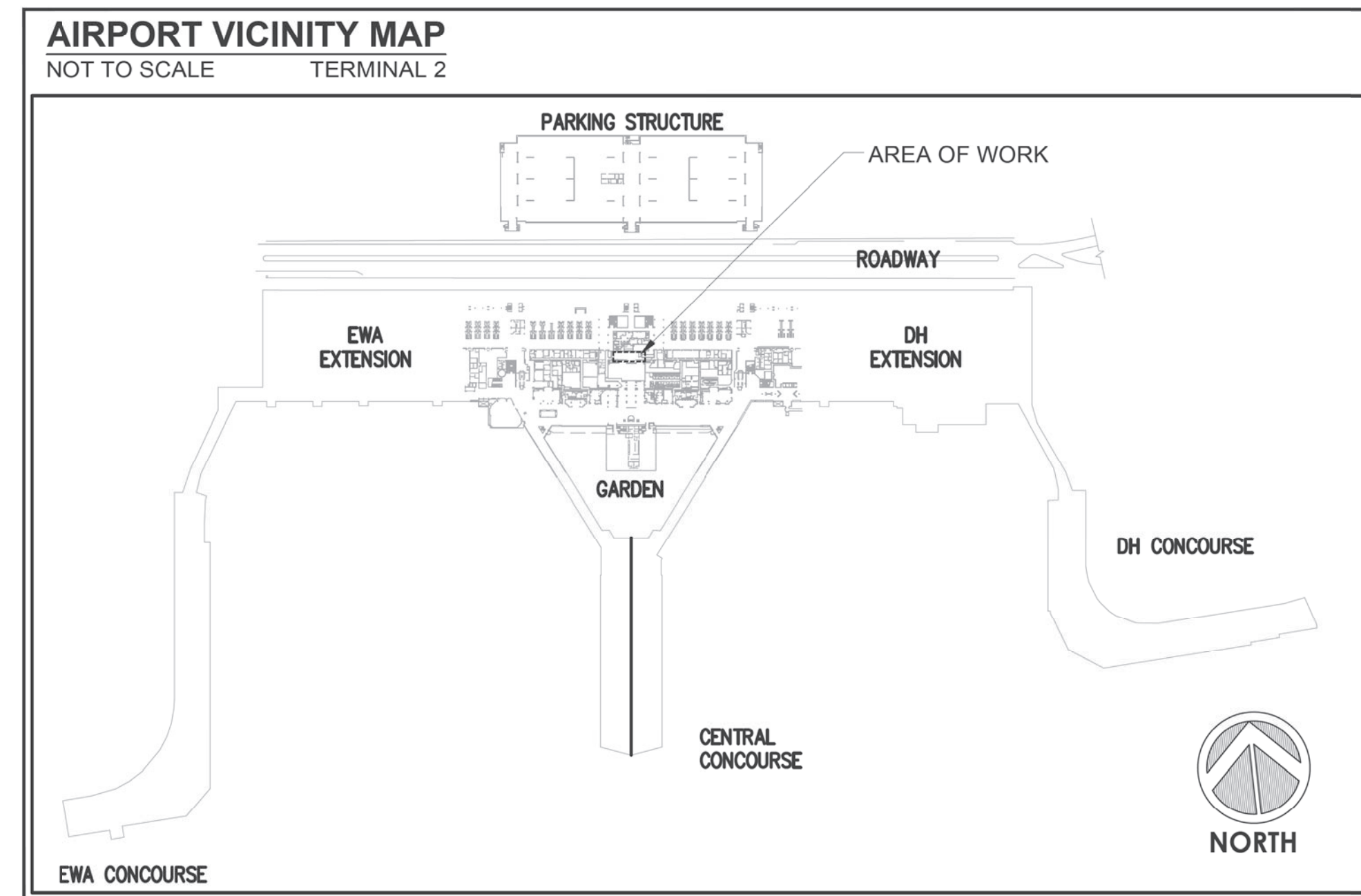
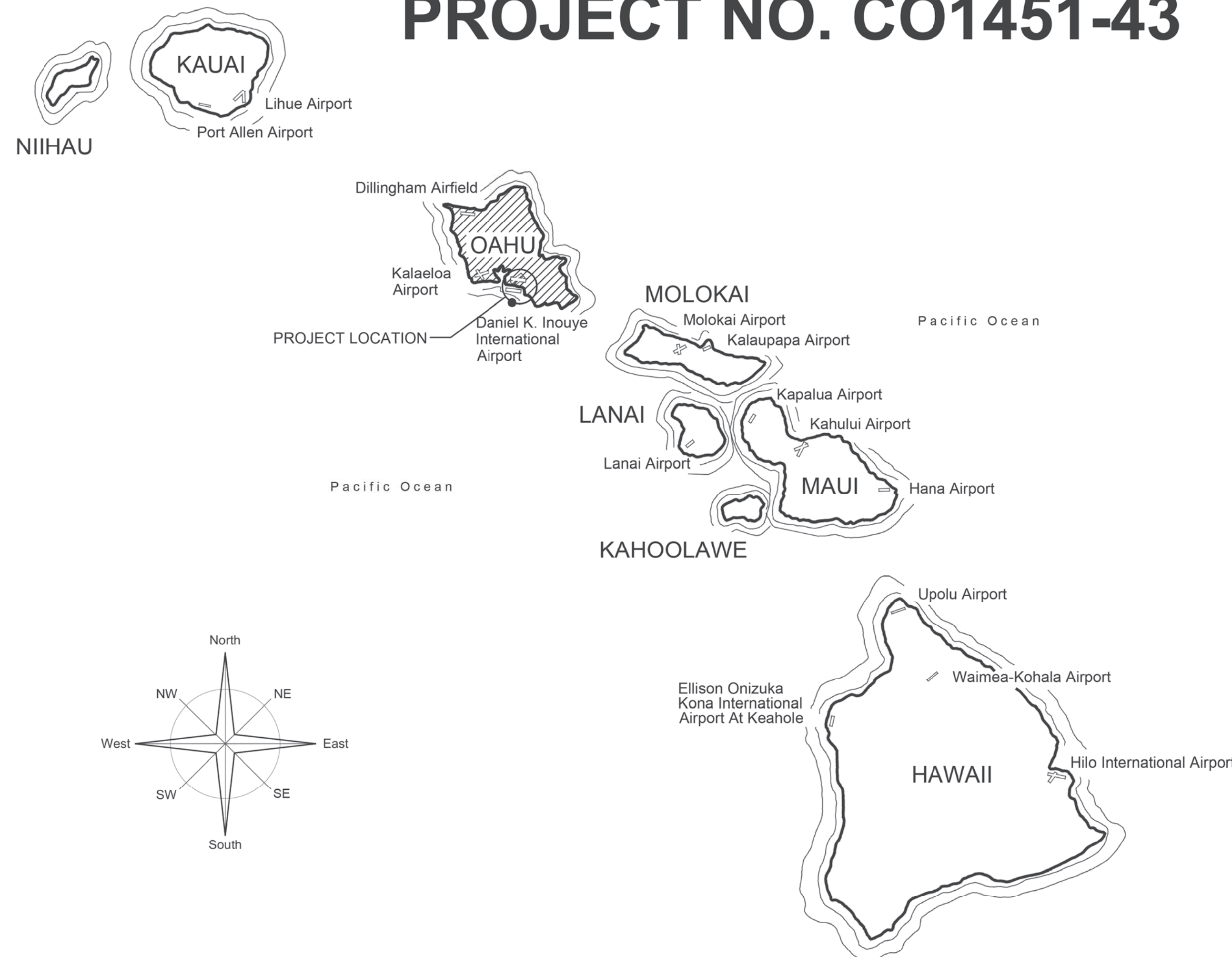
# STATE OF HAWAII DEPARTMENT OF TRANSPORTATION AIRPORTS

PLANS FOR

# TERMINAL 2 TSA CHECKPOINT 3 INTERIOR QUEUE INSTALL NEW AC

AT

## DANIEL K. INOUE INTERNATIONAL AIRPORT HONOLULU, OAHU, HAWAII PROJECT NO. CO1451-43



<b>PROJECT TEAM</b> ARCHITECTURAL: USHIJIMA ARCHITECTS, INC. 2226 YOUNG STREET SUITE A HONOLULU, HI 96826 (808) 946-9544	 SHAUN USHIJIMA ARCHITECT
STRUCTURAL: KAI HAWAII, INC. 50 S. BERETANIA STREET #C-19C HONOLULU, HI 96813 (808) 533-2210	 SAEID POURJALALI STRUCTURAL ENGINEER
MECHANICAL: ENGINEERING DYNAMICS CORP. 126 QUEEN STREET SUITE 307A HONOLULU, HI 96813 (808) 523-6930	 DOUGLAS L. GOMES MECHANICAL ENGINEER
ELECTRICAL: ELECTECH HAWAII, INC. 1100 WARD AVENUE SUITE 750 HONOLULU, HI 96814 (808) 522-1866	 ALEX CHOCK ELECTRICAL ENGINEER



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS

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NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**  
APRIL 30, 2024  
DATE

PROJECT TITLE :  
**TERMINAL 2  
TSA CHECKPOINT 3  
INTERIOR QUEUE  
INSTALL NEW AC**  
AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:  
**CO1451-43**

SHEET TITLE:

**TITLE SHEET,  
VICINITY MAP**

DEPARTMENT OF TRANSPORTATION STATE OF HAWAII	
APPROVED: <i>Nathan Kaneshige for</i>	05/08/2024
FOR DIRECTOR OF TRANSPORTATION	DATE

DATE : <b>APRIL 2024</b>	DWG. NO. <b>G-001</b>
SHEET : 1 OF 17 SHEETS	

**GENERAL NOTES**

1. VERIFY ALL DIMENSIONS AND ACTUAL CONDITIONS ON SITE PRIOR TO THE SUBMITTAL OF ANY BIDS, OR THE INITIATION OF ANY WORK. IMMEDIATELY NOTIFY THE AIRPORTS DIVISION OF ANY DISCREPANCIES PRIOR TO ANY ADDITIONAL WORK.
2. PATCH ALL SURFACES AFFECTED BY SELECTIVE DEMOLITION TO MATCH ADJACENT AND/OR EXISTING CONDITIONS UNLESS NOTED OTHERWISE.
3. CAUTION SHALL BE EXERCISED SO THAT NO EXISTING AREAS TO REMAIN SHALL BE DAMAGED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY/ALL CORRECTIVE WORK REQUIRED TO RESTORE DAMAGE TO THE SITE, LANDSCAPING OR STRUCTURE TO THE ORIGINAL CONDITIONS.
4. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR MAINTAINING THE JOB SITE IN A REASONABLY NEAT AND SAFE CONDITION. ALL WORK SHALL BE PERFORMED WITHIN LIMITS OF WORK AREAS COORDINATED WITH THE CONSTRUCTION ENGINEER. DELIVERY OF MATERIALS AND EQUIPMENT SHALL BE COORDINATED TO MINIMIZE DISRUPTION OF EXISTING OPERATIONS. CONTRACTOR TO PROVIDE AND MAINTAIN SUITABLE BARRIERS AS REQUIRED TO PREVENT PUBLIC ENTRY AND TO PROTECT THE WORK AND EXISTING FACILITIES FROM CONSTRUCTION OPERATIONS, REMOVE WHEN NO LONGER REQUIRED, OR AT THE COMPLETION OF THE WORK.
5. WORKMANSHIP SHALL BE OF GOOD QUALITY IN ACCORDANCE TO INDUSTRY STANDARDS. NEW MATERIALS SHALL BE USED THROUGHOUT. ALL WORK SHALL BE DONE IN A MANNER SO AS TO MATCH ADJACENT WORK AND FINISHES AS APPROVED BY THE CONSTRUCTION ENGINEER.
6. AREAS FOR THE CONTRACTOR ZONE LIMITS, MATERIAL STORAGE SCHEDULING OF WORK TRASH DISPOSAL, WORKMEN'S PARKING, ETC. SHALL BE COORDINATED WITH THE AIRPORTS DIVISION. COORDINATE ALL WORK SCHEDULING, STAGING, AND ADMINISTRATIVE REQUIREMENTS WITH THE AIRPORTS DIVISION CONSTRUCTION ENGINEER.
7. GENERAL CONTRACTOR SHALL BE RESPONSIBLE FOR TEMPORARY RELOCATION OF OFFICE FURNITURE, EQUIPMENT, SUPPLIES, ETC AS REQUIRED BY PROGRESS OF WORK IN ADDITION TO ITEMS COVERED UNDER SPEC. SECTION 02411 - SELECTIVE DEMOLITION. GENERAL CONTRACTOR SHALL REPAIR, REPLACE OR PAY THE EXPENSE TO REPAIR DAMAGES RESULTING FROM CONTRACTOR'S FAULT OR NEGLIGENCE.
8. THIS PROJECT HAS BEEN REVIEWED BY DISABILITY AND COMMUNICATION ACCESS BOARD (DCAB) AND TO THE BEST OF OUR KNOWLEDGE CONFORMS TO THE AMERICANS WITH DISABILITIES ACT (ADA) ACCESSIBILITY GUIDELINES.
9. BUILDINGS AND FACILITIES SHALL BE DESIGNED AND CONSTRUCTED TO BE ACCESSIBLE IN ACCORDANCE WITH THIS CODE (IBC 2018) AND ICC A117.1  
  
CONFORMANCE WITH THE DESIGN AND CONSTRUCTION REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES ADMINISTERED BY THE DEPARTMENT OF JUSTICE OR THE FAIR HOUSING ACT ACCESSIBILITY GUIDELINES ADMINISTERED BY THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT SHALL BE EQUIVALENT TO MEETING THE ACCESSIBILITY OF THIS CODE. CONSTRUCTION OF PUBLIC BUILDINGS OR FACILITIES IN COMPLIANCE WITH HRS 103-50 SHALL BE EQUIVALENT TO MEETING THE ACCESSIBILITY OF THIS CODE.
10. IN CASE OF SPILL, LEAK, OR OTHER RELEASE CONTAINING A HAZARDOUS SUBSTANCE OR OIL, THE CONTRACTOR SHALL NOTIFY APPROPRIATE FACILITY PERSONNEL, EMERGENCY RESPONSE AGENCIES, AND REGULATORY AGENCIES FOLLOWING NOTIFICATION PROCEDURES, AND SHALL NOTIFY HARBORS CONSTRUCTION ENGINEER IMMEDIATELY (I.E., WITHIN 24-HOURS). SUCH CONTACT INFORMATION MUST BE POSTED AT LOCATIONS THAT ARE READILY ACCESSIBLE.
11. THE CONTRACTOR SHALL SUBMIT A SITE-SPECIFIC BEST MANAGEMENT PRACTICE (BMP) PLAN TO AIRPORTS CONSTRUCTION ENGINEER PRIOR TO THE START OF ANY CONSTRUCTION WORK. THE SITE-SPECIFIC BMP PLAN SHALL COMPLY WITH SECTION 01561 - CONSTRUCTION SITE POLLUTION CONTROLS IN THE SPECIFICATIONS AND PROPOSAL DOCUMENT.
12. CONTRACTOR SHALL SUBMIT FAA FORM 7460-1, NOTICE TO PROPOSED CONSTRUCTION OR ALTERATION AT LEAST 45 DAYS PRIOR TO THE START OF CONSTRUCTION OR THE DATE AN APPLICATION OF A CONSTRUCTION PERMIT IS FILLED, WHICHEVER IS EARLIEST. CONSTRUCTION EQUIPMENT AND STAGING AREA HEIGHTS INCLUDING HEIGHTS OF TEMPORARY CONSTRUCTION CRANES SHALL BE INCLUDED IN THE SUBMITTAL. THE FORM AND CRITERIA FOR SUBMITTAL CAN BE FOUND ONLINE AT: [HTTPS://OEAAA.FAA.GOV/OEAAA/EXTERNAL/CONTENT/FORMS.JSP](https://oeaaa.faa.gov/oeaaa/external/content/forms.jsp)
13. ANY NIGHT-TIME CONSTRUCTION ACTIVITY OR EQUIPMENT MAINTENANCE MUST HAVE FULLY DARK SKY COMPLIANT SHIELDED LIGHTS. LARGE FLOOD/WORK LIGHTS SHALL BE PLACED ON POLES HIGH ENOUGH TO ALLOW LIGHTS TO BE POINTED DIRECTLY AT THE GROUND. HOWEVER, NO NIGHT-TIME CONSTRUCTION WILL BE PERMITTED BETWEEN SEPTEMBER 15 AND DECEMBER 15 IN ORDER TO PREVENT DISORIENTATION OF NOCTURNAL-FLYING BIRDS DURING NESTING SEASON.
14. AOA TRAFFIC CONTROL NOTES:
  - A. THE CONTRACTOR SHALL FURNISH ALL ESCORTS, FLAG PEOPLE, AND COMMUNICATION DEVICES; AS WELL AS, ALL AOA TRAFFIC CONTROL DEVICES SPECIFIED IN THE TECHNICAL PROVISION SECTION 01800 - SPECIAL REQUIREMENTS FOR CONTRACTORS ON THE AOA.
  - B. THE CONTRACTOR'S ESCORTS SHALL CONTINUOUSLY MONITOR RADIO FREQUENCY, INDICATED IN THE TECHNICAL PROVISION SECTION 01800, FOR ALL POTENTIAL AIRCRAFT ACTIVITY THAT IS UNFORESEEN.
  - C. BEFORE STARTING ANY WORK AT EACH WORKDAY, THE CONTRACTOR SHALL SET UP ALL AOA TRAFFIC CONTROL DEVICES IN THE ORDER REQUIRED BY THE CONTRACT. AT THE END OF EACH WORKDAY, THE CONTRACTOR SHALL TAKE DOWN ALL AOA TRAFFIC CONTROL DEVICES IN THE REVERSE ORDER.
  - D. THE CONTRACTOR SHALL NOT TAKE DOWN ANY AOA TRAFFIC CONTROL DEVICES UNTIL WORK IS COMPLETED IN THE AOA.
  - E. THE CONTRACTOR SHALL NOT LEAVE THE AOA UNTIL ALL AOA TRAFFIC CONTROL DEVICES HAVE BEEN TAKEN DOWN.
  - F. THE CONTRACTOR SHALL NOT LEAVE THE AIRPORT UNTIL ALL STAGING AREAS ARE CLEARED ACCORDING TO TECHNICAL PROVISION SECTION 01700 - MOBILIZATION AND DEMOBILIZATION.

**GENERAL NOTES, CONTINUED**

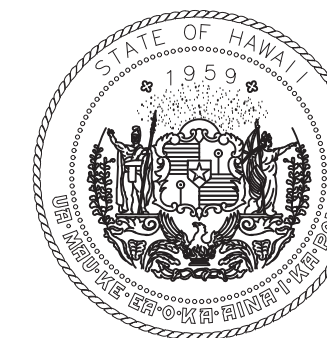
15. SOLID WASTE DISPOSAL:
  - A. ALL WASTE MATERIALS SHALL BE COLLECTED AND STORED IN A SECURELY LIDDED METAL DUMPSTER THAT DOES NOT LEAK. THE DUMPSTER SHALL MEET ALL LOCAL AND STATE SOLID WASTE MANAGEMENT REGULATIONS. ALL TRASH AND CONSTRUCTION DEBRIS FROM THE SITE SHALL BE DEPOSITED IN THE DUMPSTER. THE DUMPSTER SHALL BE EMPTIED AT A MINIMUM OF TWICE PER WEEK OR AS OFTEN AS IS DEEMED NECESSARY. NO CONSTRUCTION WASTE MATERIAL SHALL BE BURIED ONSITE. THE CONTRACTOR'S SUPERVISORY PERSONNEL SHALL BE INSTRUCTED REGARDING THE CORRECT PROCEDURE FOR WASTE DISPOSAL. NOTICES STATING THESE PRACTICES SHALL BE POSTED IN THE OFFICE TRAILER AND THE CONTRACTOR SHALL BE RESPONSIBLE FOR SEEING THAT THESE PROCEDURES ARE FOLLOWED.
  - B. UNLESS OTHERWISE SPECIFIED, THE CONTRACTOR IS RESPONSIBLE FOR THE PROPER HANDLING, STORAGE AND/OR DISPOSAL OF ALL WASTE GENERATED BY THIS CONSTRUCTION. ANY MATERIAL BROUGHT TO THE COUNTY LANDFILLS WILL BE SUBJECTED TO THE INSTITUTED TIPPING FEE SYSTEM, WITH NO EXCEPTIONS OR EXEMPTIONS.
  - C. ALL WASTES GENERATED BY CONSTRUCTION AND DEMOLITION MAY BE BROUGHT TO THE WEST HAWAII OR THE HILO LANDFILL. ALL COST FOR LANDFILL FEES SHALL BE INCLUDED IN THE CONTRACTOR'S BID.
  - D. CONSTRUCTION, DEMOLITION, AND GRUBBING MATERIAL SHALL NOT BE DEPOSITED AT ANY OF THE COUNTY TRANSFER STATIONS, BUT SHALL BE TRANSPORTED FOR DISPOSAL AT EITHER THE WEST HAWAII OR HILO LANDFILL.

**APPLICABLE CODES**

- INTERNATIONAL BUILDING CODE (IBC), 2018 EDITION WITH COUNTY OF HAWAII AMENDMENTS
- INTERNATIONAL ENERGY CONSERVATION CODE (IECC), 2018 EDITION WITH COUNTY OF HAWAII AMENDMENTS
- UNIFORM PLUMBING CODE (UPC), 2018 EDITION WITH COUNTY OF HAWAII AMENDMENTS
- UNIFORM FIRE CODE (UFC), NFPA 1 2018 EDITION WITH LOCAL AMENDMENTS
- NATIONAL ELECTRICAL CODE (NEC), 2017 EDITION WITH LOCAL AMENDMENTS
- IBC SECTION 1101.2  
CONFORMANCE WITH THE DESIGN AND CONSTRUCTION REQUIREMENTS OF THE AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES ADMINISTERED BY THE DEPARTMENT OF JUSTICE OR THE FAIR HOUSING ACT ACCESSIBILITY GUIDELINES ADMINISTERED BY THE DEPARTMENT OF HOUSING AND URBAN DEVELOPMENT SHALL BE EQUIVALENT TO MEETING THE ACCESSIBILITY OF THIS CODE. CONSTRUCTION OF PUBLIC BUILDINGS OR FACILITIES IN COMPLIANCE WITH HRS 103-50 SHALL BE EQUIVALENT TO MEETING THE ACCESSIBILITY OF THIS CODE.
- 2010 ADA STANDARDS FOR ACCESSIBLE DESIGN
- NFPA 1 2018
- 1.14.4 REVIEW AND APPROVAL BY THE AHJ SHALL NOT RELIEVE THE APPLICANT OF THE RESPONSIBILITY OF COMPLIANCE WITH THIS CODE.
- 1.3.6.3 REPAIRS, RENOVATIONS, ALTERATIONS, RECONSTRUCTION, CHANGE OF OCCUPANCY, AND ADDITIONS TO BUILDINGS SHALL CONFORM TO THIS CODE, NFPA 101, AND THE BUILDING CODE.
- LIABILITY
- 1.9.4 THIS CODE SHALL NOT BE CONSTRUED TO RELIEVE FROM OR LESSEN THE RESPONSIBILITY OF ANY PERSON OWNING, OPERATING, OR CONTROLLING ANY BUILDING OR STRUCTURE FOR ANY DAMAGES TO PERSONS OR PROPERTY CAUSED BY DEFECTS, NOR SHALL THE CODE ENFORCEMENT AGENCY OR ITS PARENT JURISDICTION BE HELD AS ASSUMING ANY SUCH LIABILITY BY REASON OF THE INSPECTIONS AUTHORIZED BY THIS CODE OR ANY PERMITS OR CERTIFICATES ISSUED UNDER THIS CODE.

**DRAWING INDEX**

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A-102	EXISTING LEVEL 2 PARTIAL REFLECTED CEILING PLAN
A-103	PARTIAL DEMO ROOF PLAN
A-104	PARTIAL NEW WORK ROOF PLAN
A-201	EXISTING BUILDING SECTION, ROOF DETAILS
S-001	STRUCTURAL NOTES
S-200	ROOF PLAN
S-400	DETAILS
M-100	MECHANICAL CONSTRUCTION NOTES
M-200	AIR CONDITIONING AND VENTILATION PLAN
M-201	MECHANICAL ROOF PLAN
M-300	MECHANICAL DETAILS
M-400	MECHANICAL EQUIPMENT SCHEDULES
E-001	ELECTRICAL SYMBOLS, NOTES, OVERALL LEVEL 2 ELECTRICAL PLAN
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS

DSGN.	DRWN.	CHKD.	APPD.
TH	CAD	TH	SU

NO.	DATE	REVISIONS

**CONSTRUCTION DOCUMENTS**

APRIL 30, 2024  
DATE

**PROJECT TITLE :**

**TERMINAL 2  
TSA CHECKPOINT 3  
INTERIOR QUEUE  
INSTALL NEW AC**  
AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

**PROJECT NO.:**

**CO1451-43**

**SHEET TITLE:**

**GENERAL NOTES,  
APPLICABLE CODES,  
DRAWING INDEX**

DATE :	APRIL 2024	DWG. NO.	<b>G-002</b>
SHEET :	2 OF 17 SHEETS		



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APRIL 30, 2024  
DATE

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**TERMINAL 2  
TSA CHECKPOINT 3  
INTERIOR QUEUE  
INSTALL NEW AC**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1451-43**

SHEET TITLE:

**EXISTING LEVEL 2  
PARTIAL FLOOR PLAN**

DATE :

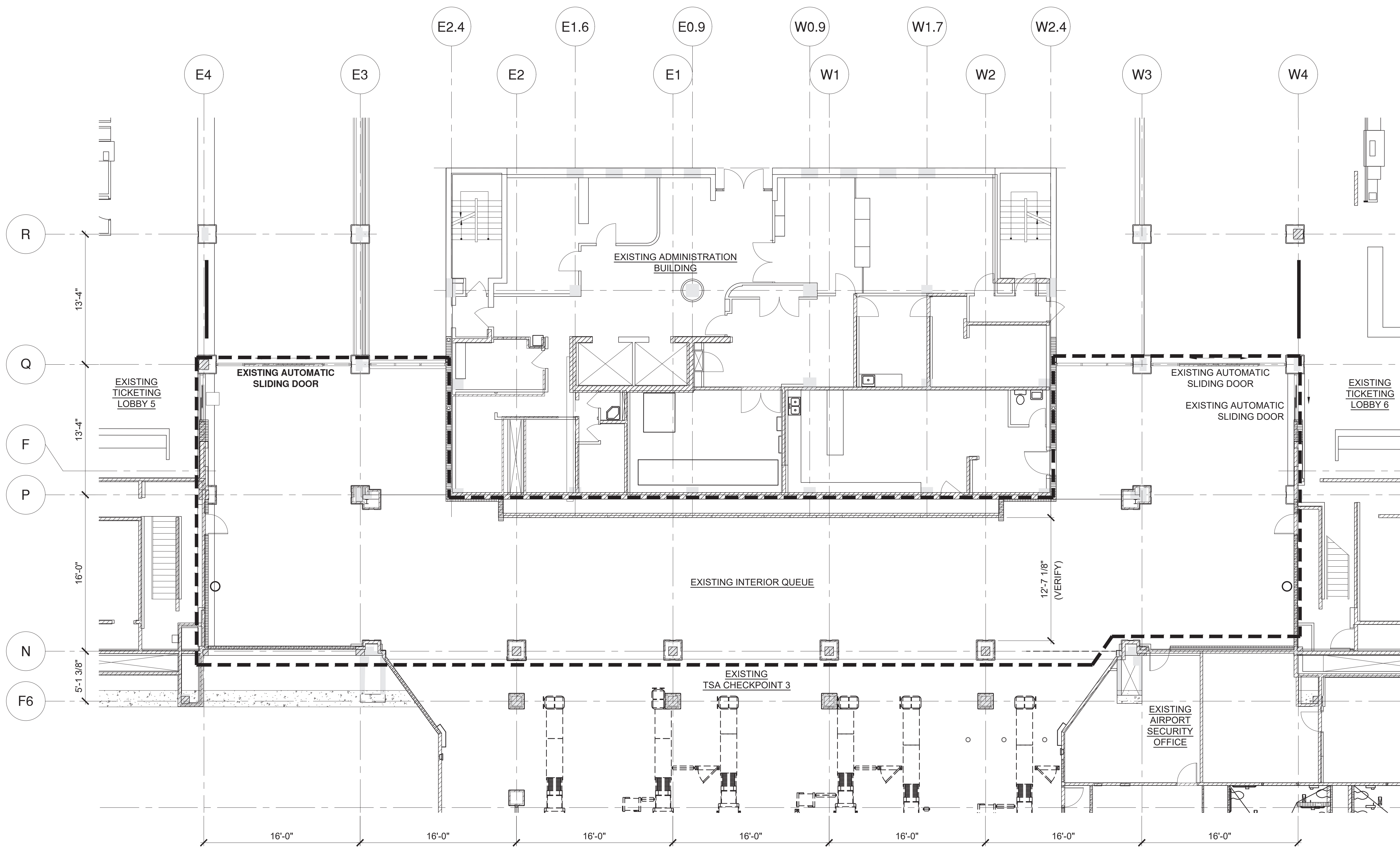
**APRIL 2024**

SHEET :

3 OF 17 SHEETS

DWG. NO.

**A-101**



TRUE NORTH



PLAN NORTH

**1 EXISTING LEVEL 2 PARTIAL FLOOR PLAN**

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

LEGEND



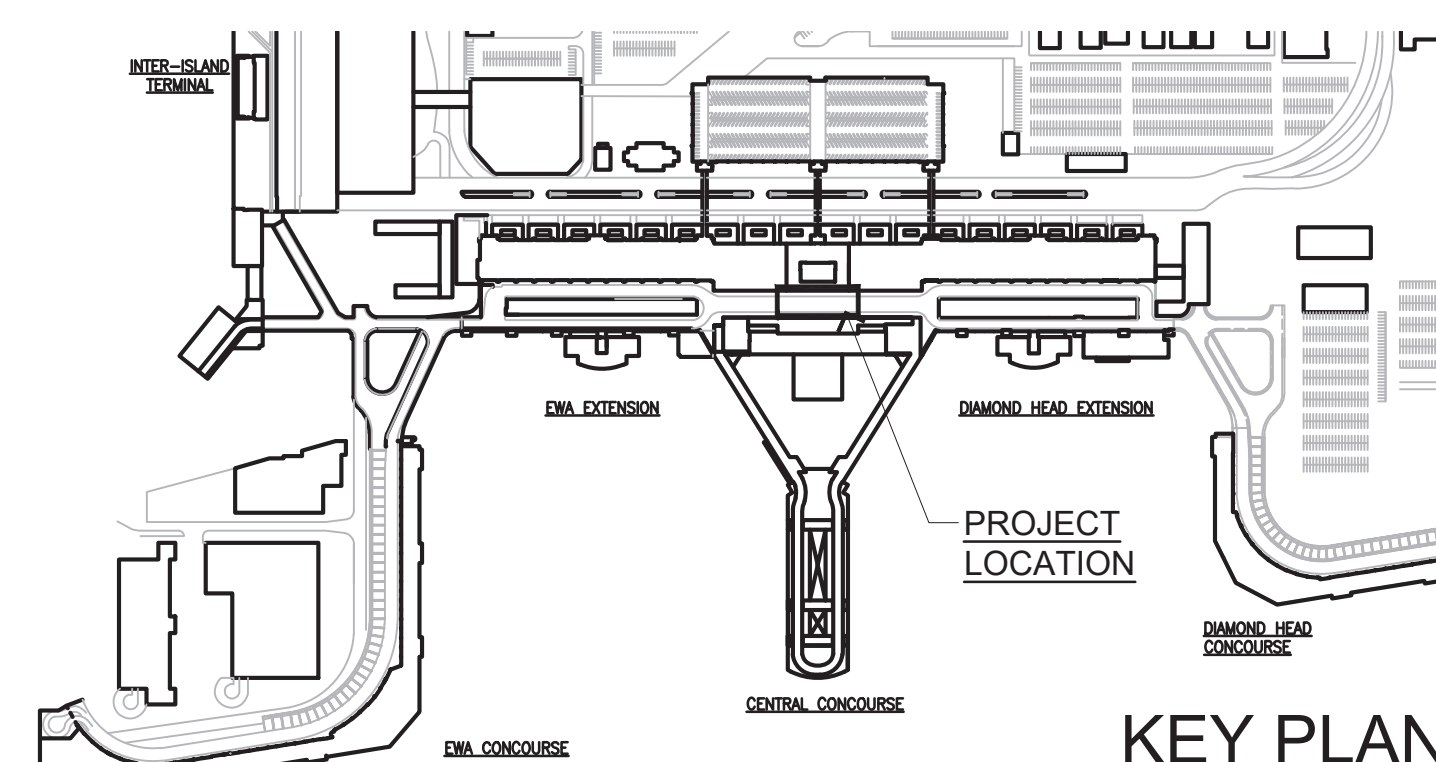
COLUMN GRIDS

— INDICATES EXIST. WALLS

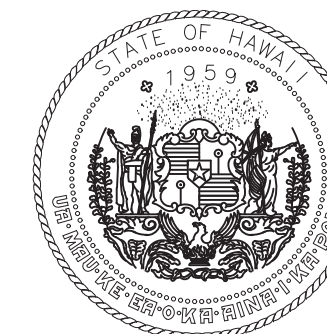
--- DASHED LINES INDICATE LIMITS OF WORK

GENERAL NOTES:

- CONTRACTOR TO SURVEY EXISTING SPACE TO REVIEW ALL EXISTING CONDITIONS TO CONFIRM SCOPE OF WORK PRIOR TO DEMOLITION.
- CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK
- ALL EXISTING DOORS, WINDOWS, STAIRS, AND RAILINGS TO REMAIN, NO CHANGE, U.N.O.



**KEY PLAN**  
NO SCALE



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS

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<b>CONSTRUCTION DOCUMENTS</b>		
APRIL 30, 2024 DATE		

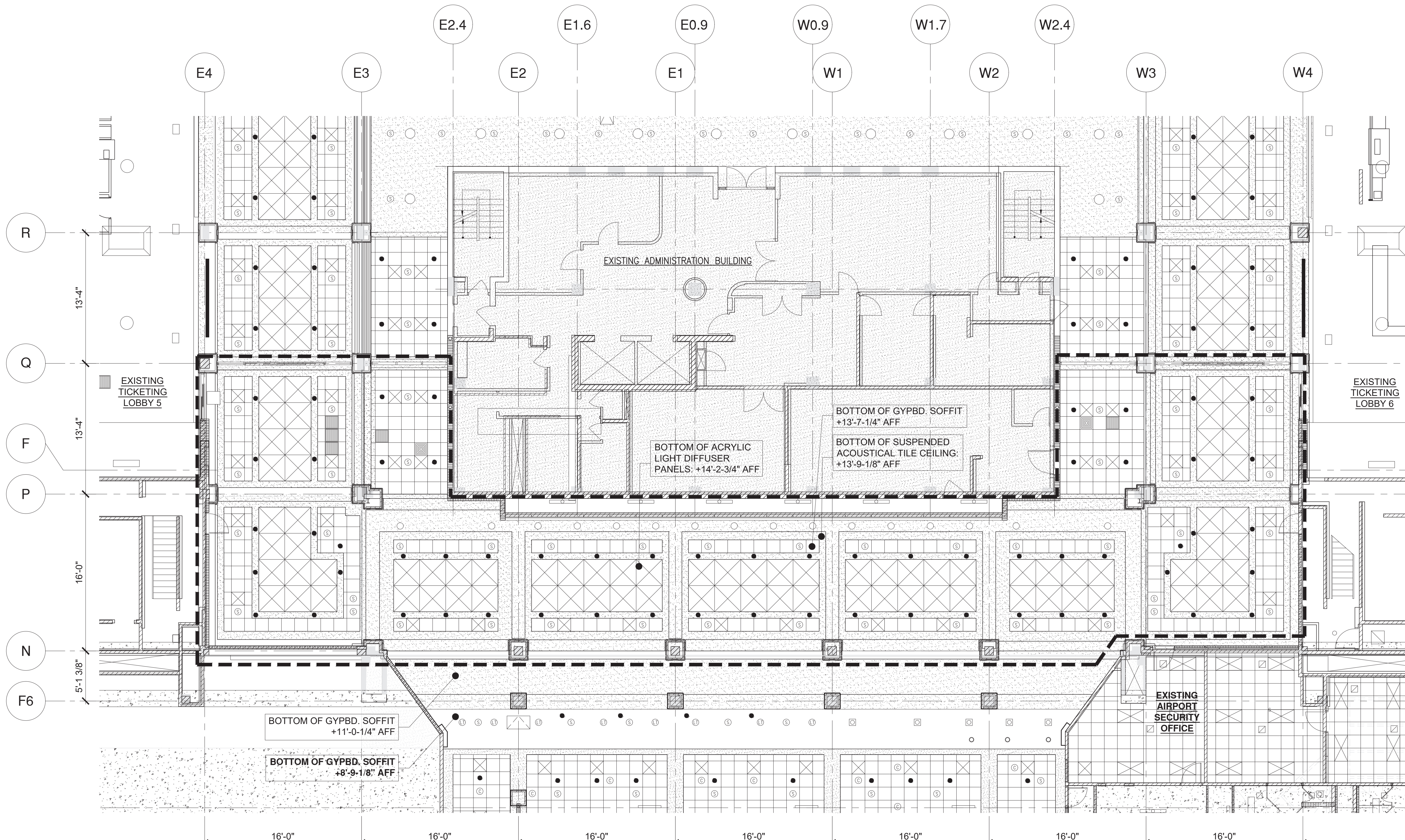
PROJECT TITLE :  
**TERMINAL 2  
TSA CHECKPOINT 3  
INTERIOR QUEUE  
INSTALL NEW AC**  
AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:  
**CO1451-43**

SHEET TITLE:

**EXISTING LEVEL 2  
PARTIAL REFLECTED  
CEILING PLAN**

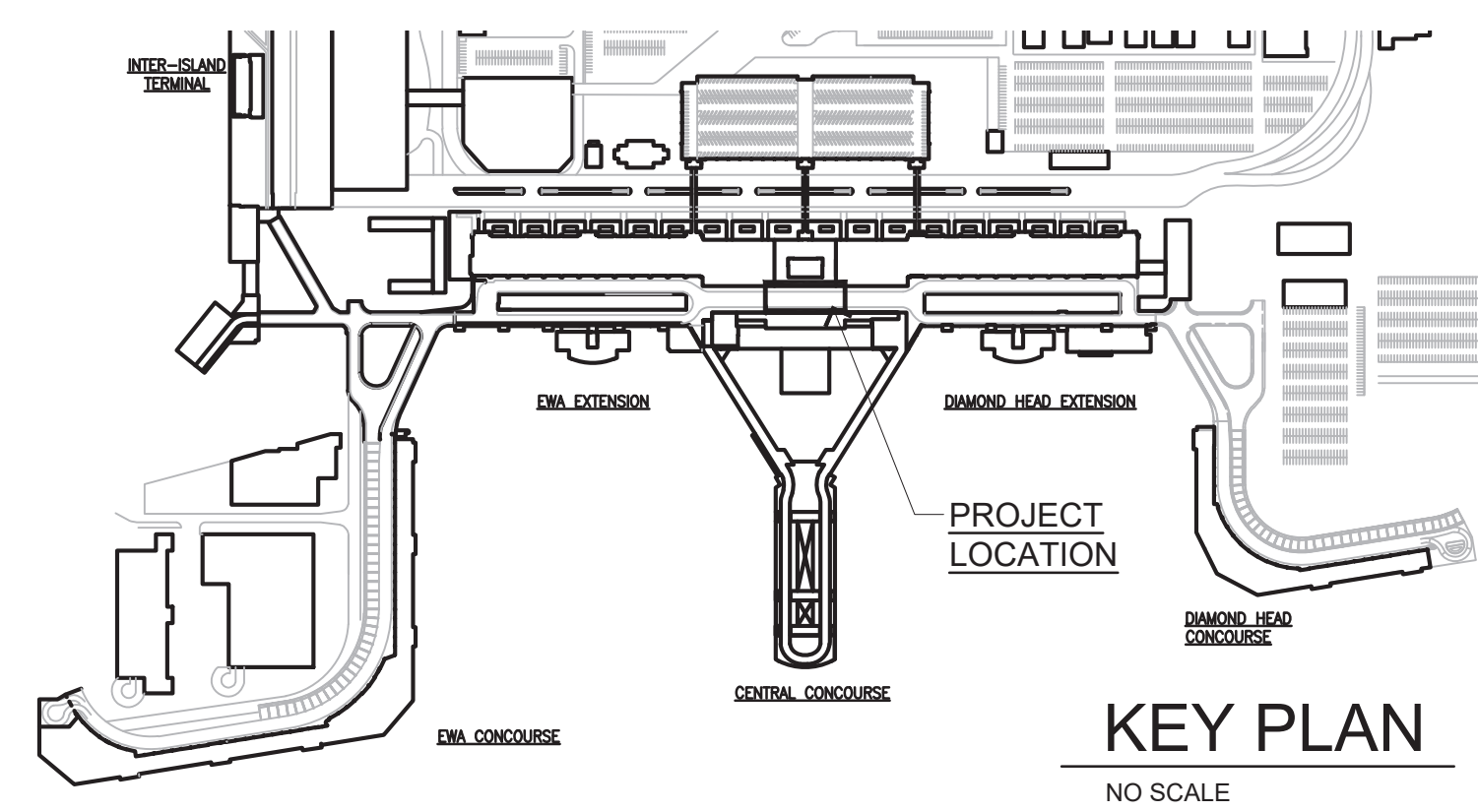
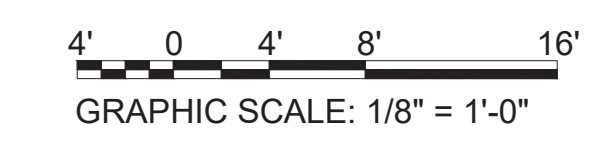
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APRIL 2024	<b>A-102</b>
SHEET :	
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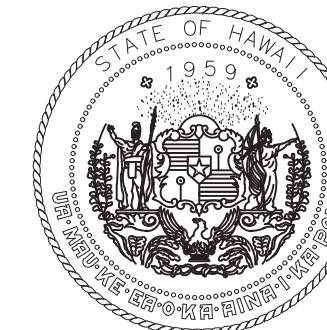


**1 EXISTING LEVEL 2 PARTIAL REFLECTED CEILING PLAN**  
SCALE: 1/8" = 1'-0"

LEGEND		
(R#) (RX)	COLUMN GRIDS	(C) INDICATES EXIST. CEILING MOUNTED SECURITY CAMERA
(S)	EXIST. CEILING MOUNTED SPEAKER	(M) INDICATES EXIST. CEILING MOUNTED FLAT SCREEN MONITOR
(O)	EXIST. RECESSED CAN LIGHT FIXTURE	(R) INDICATES EXIST. RETURN AIR REGISTER
(●)	EXIST. FIRE SPRINKLER HEAD	(S) INDICATES EXIST. SUPPLY AIR REGISTER
(---)	DASHED LINES INDICATE LIMITS OF WORK	(X) INDICATES EXIST. LAY-IN LIGHT FIXTURE
(=)	INDICATES EXIST. WALLS	
(■)	INDICATES EXIST. RETURN AIR REGISTER	
(□)	INDICATES EXIST. SUPPLY AIR REGISTER	

- GENERAL NOTES:
- CONTRACTOR TO SURVEY EXISTING SPACE TO REVIEW ALL EXISTING CONDITIONS TO CONFIRM SCOPE OF WORK PRIOR TO DEMOLITION.
  - CONTRACTOR TO VERIFY ALL DIMENSIONS PRIOR TO STARTING WORK
  - ALL EXISTING DOORS, WINDOWS, STAIRS, AND RAILINGS TO REMAIN, NO CHANGE, U.N.O.





STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
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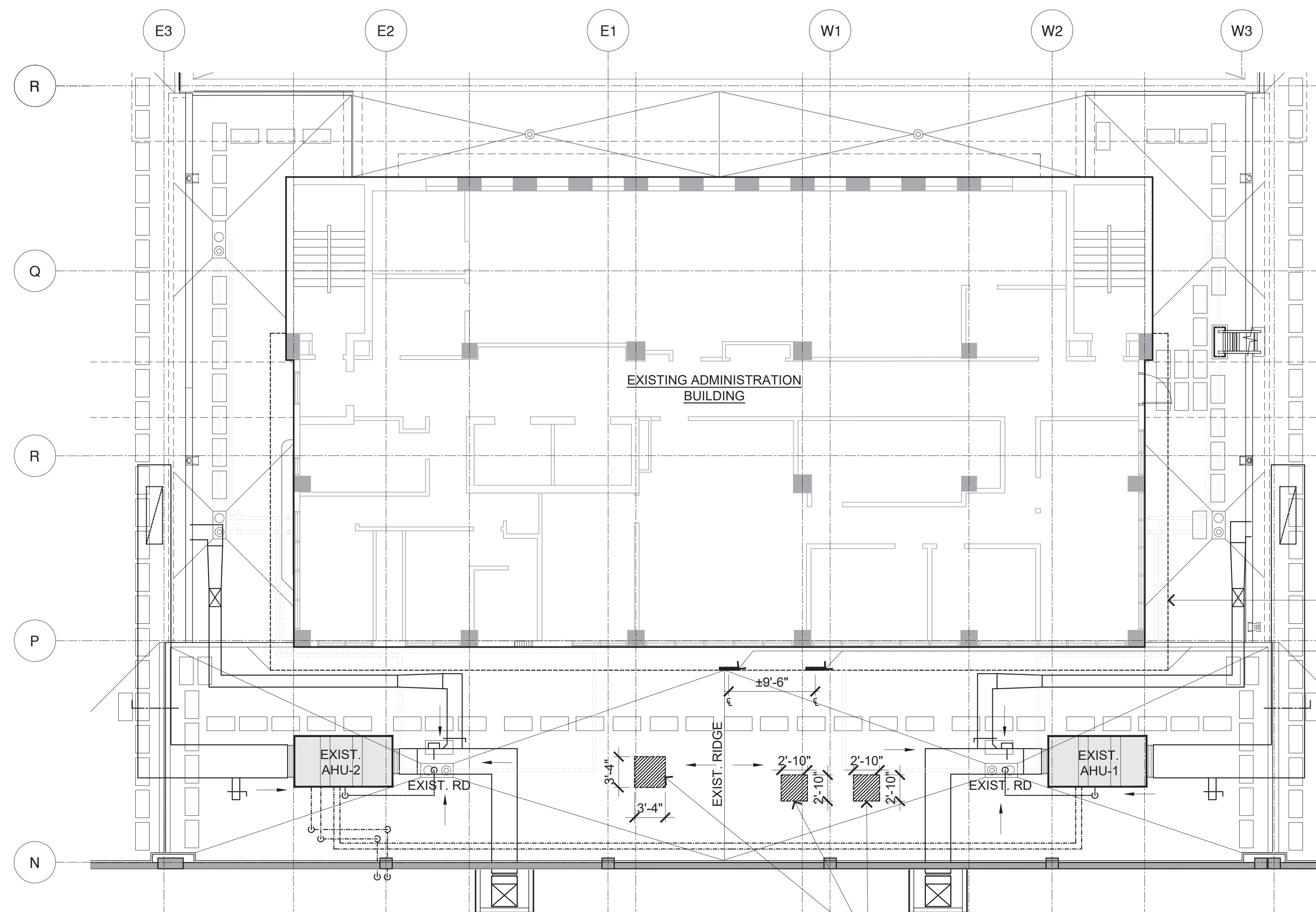
PROJECT NO.:

**CO1451-43**

SHEET TITLE:

**PARTIAL DEMO  
ROOF PLAN**

DATE :	DWG. NO.
APRIL 2024	<b>A-103</b>
SHEET :	
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OUTLINE OF EXIST. SOFFIT

DEMO TWO (2) 2'x2' OPENINGS IN EXIST. SOFFIT CONSISTING OF 7/8" EXT. CEMENT PLASTER OVER 15 LB FELT OVER 3-5/8" MET STUD FRAMING @ 16" O.C. TO ACCOMMODATE INSTALLATION OF NEW STEEL FRAMING.

EXISTING CEMENT PLASTER TO BE REMOVED AND DISPOSED OF AS ASBESTOS-CONTAINING MATERIAL.

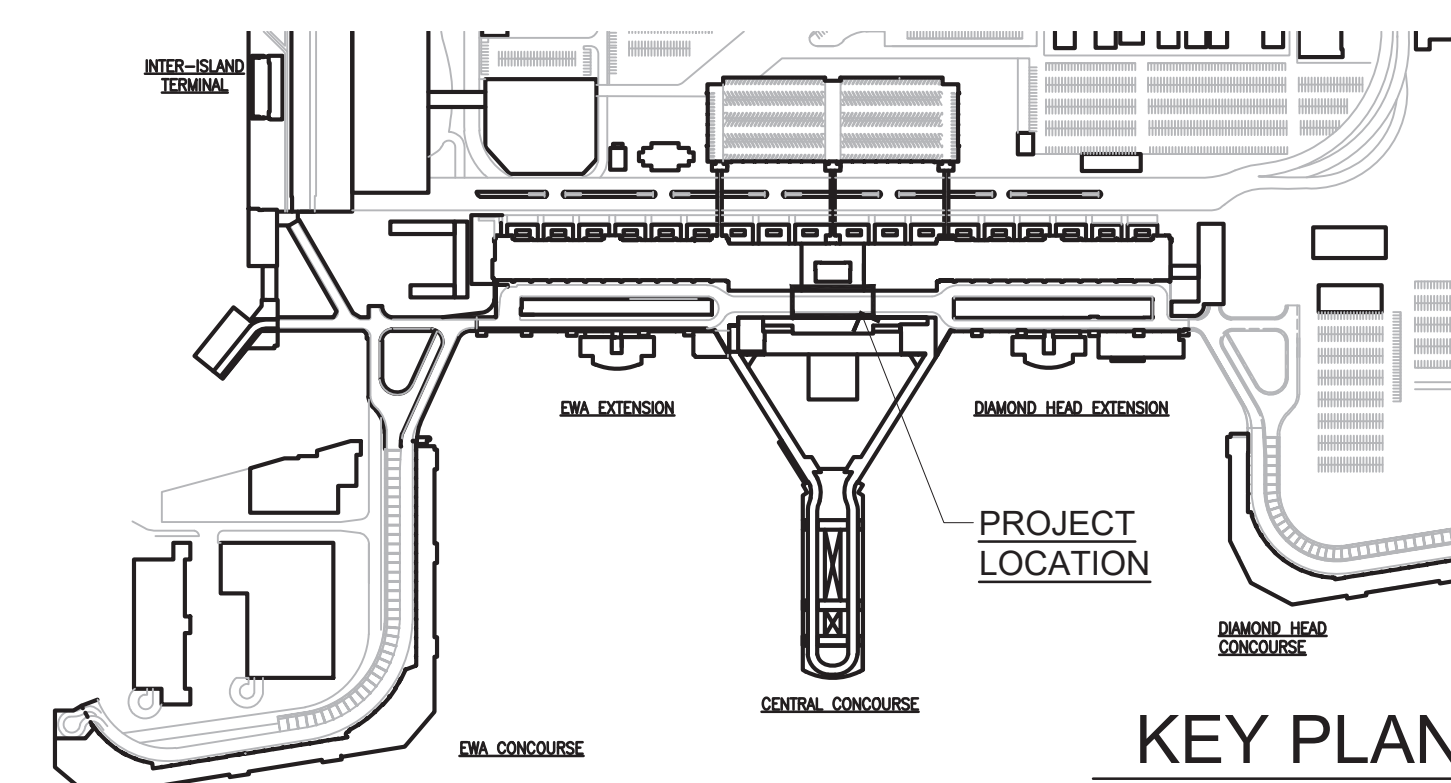
DEMO NEW OPENINGS THRU EXIST. MOD BIT ROOFING OVER SLOPED RIGID INSULATION ON METAL DECKING W/ FIREPROOFING. COORDINATE SIZE AND LOCATION OF OPENINGS W/ NEW HVAC DUCTS, SEE MECHANICAL DWGS.



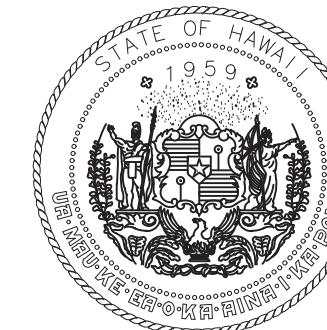
**1 PARTIAL DEMO ROOF PLAN**

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

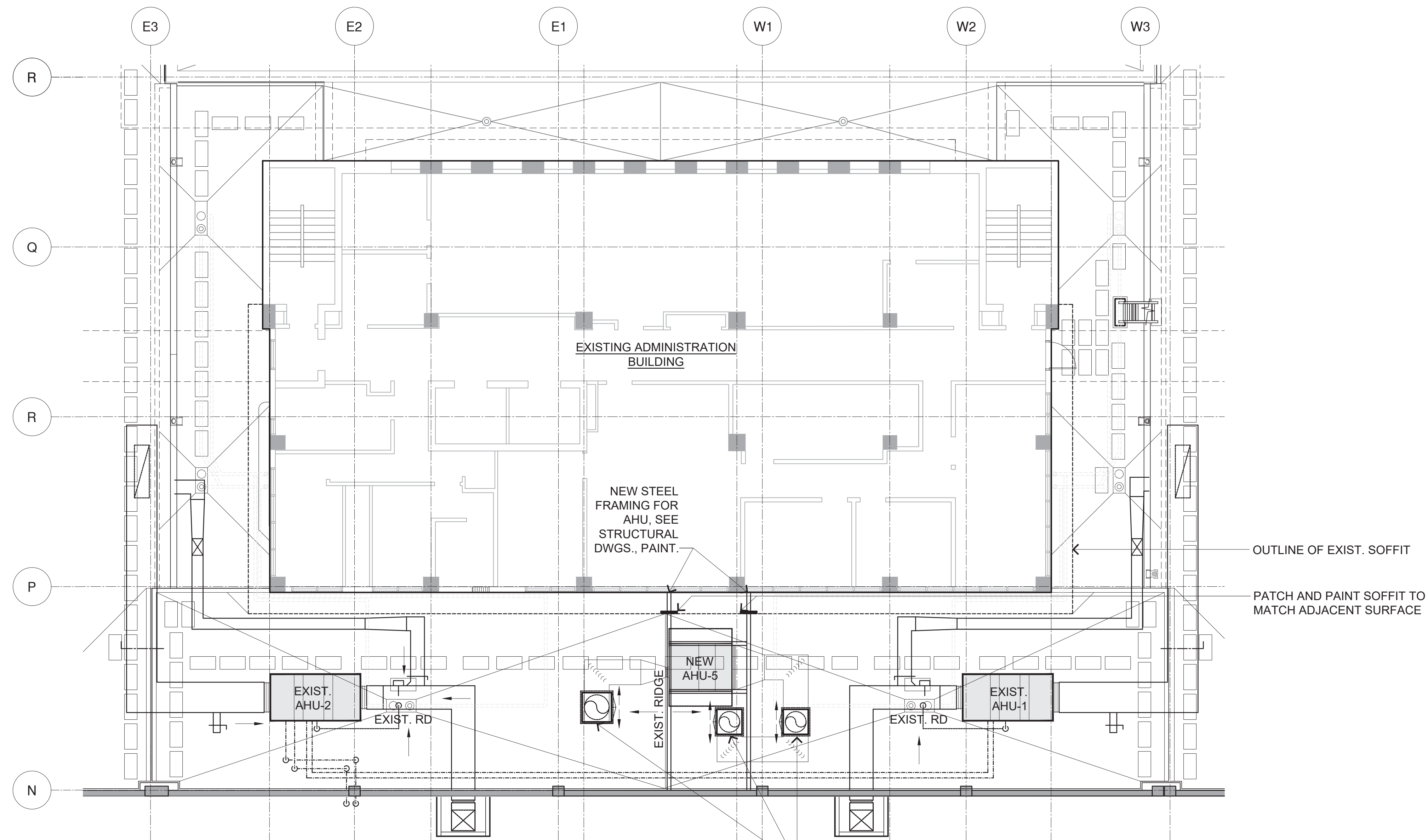
4' 0 4' 8' 16'  
GRAPHIC SCALE: 1/8" = 1'-0"



**KEY PLAN**  
NO SCALE

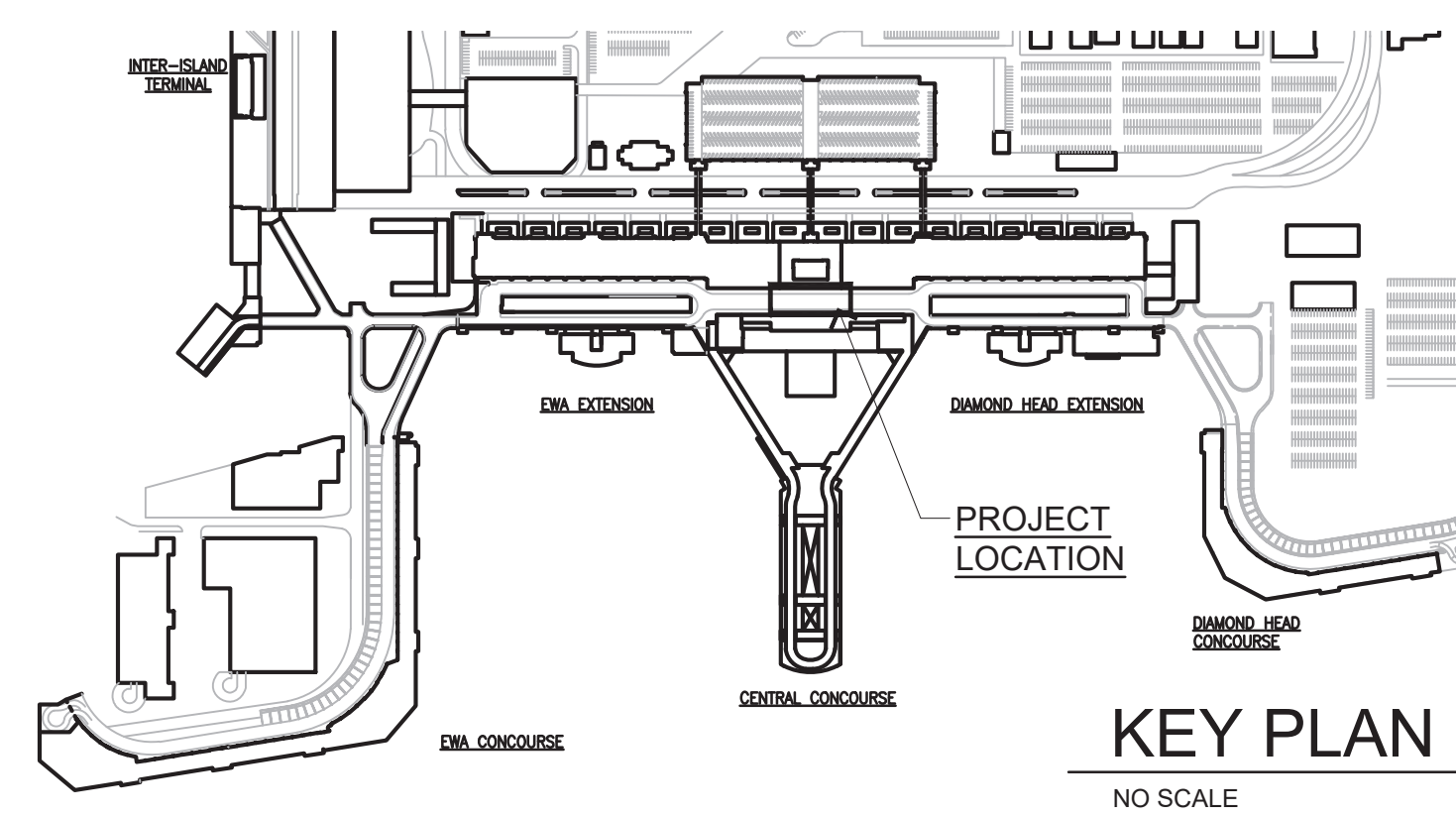
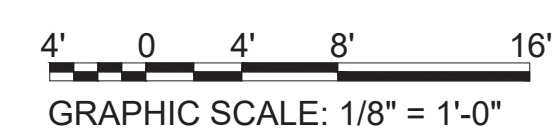


STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS



**1 PARTIAL NEW WORK ROOF PLAN**  
SCALE: 1/8"=1'-0"

NEW ROOF CURBS FOR HVAC DUCTS W/ SHEET METAL CAPS AND ROOF CRICKETS. COORDINATE SIZE AND LOCATION OF OPENINGS W/ NEW HVAC DUCTS, SEE MECHANICAL DWGS.



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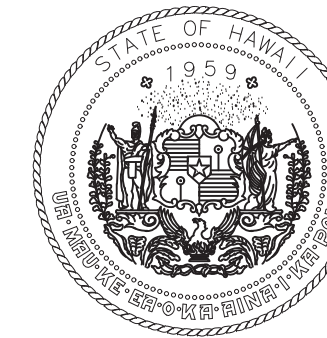
**CONSTRUCTION DOCUMENTS**  
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**PROJECT NO.:**  
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**SHEET TITLE:**  
**PARTIAL NEW WORK  
ROOF PLAN**

DATE :	DWG. NO.
APRIL 2024	<b>A-104</b>
SHEET :	
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS

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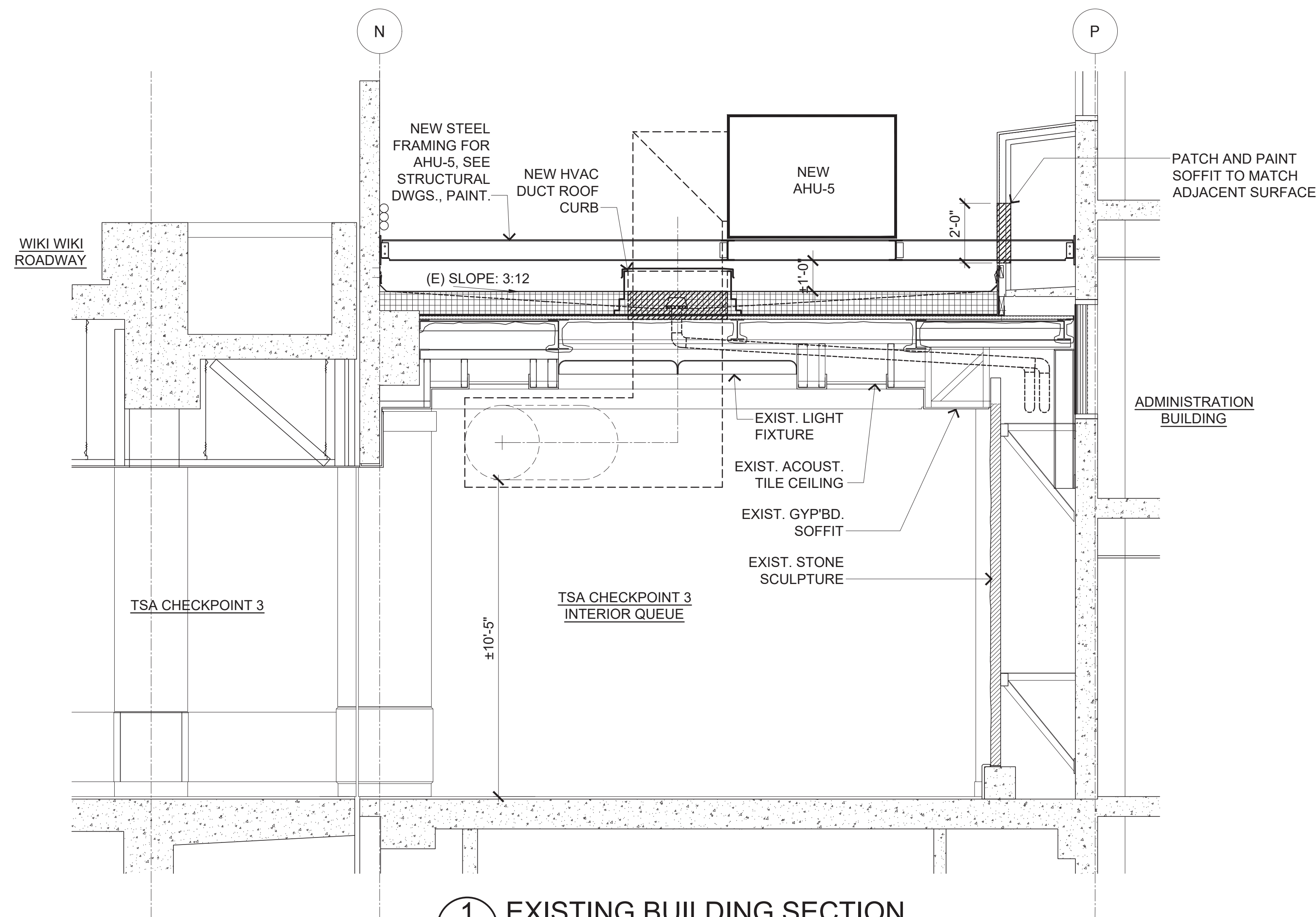
**PROJECT NO.:**

**CO1451-43**

**SHEET TITLE:**

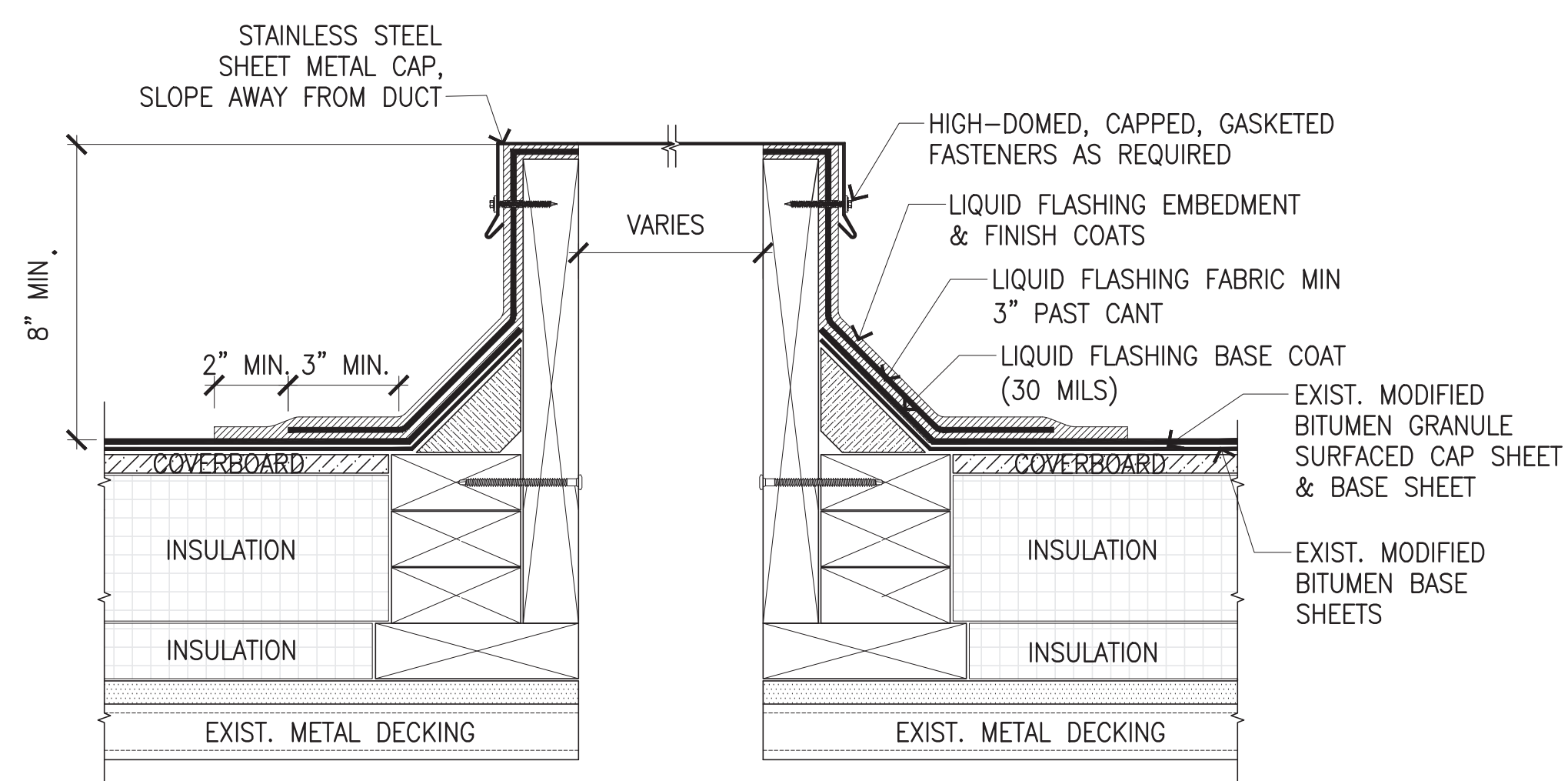
**EXISTING BUILDING  
SECTION, ROOF  
DETAILS**

DATE :	DWG. NO.
APRIL 2024	A-201
SHEET :	
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**1 EXISTING BUILDING SECTION**

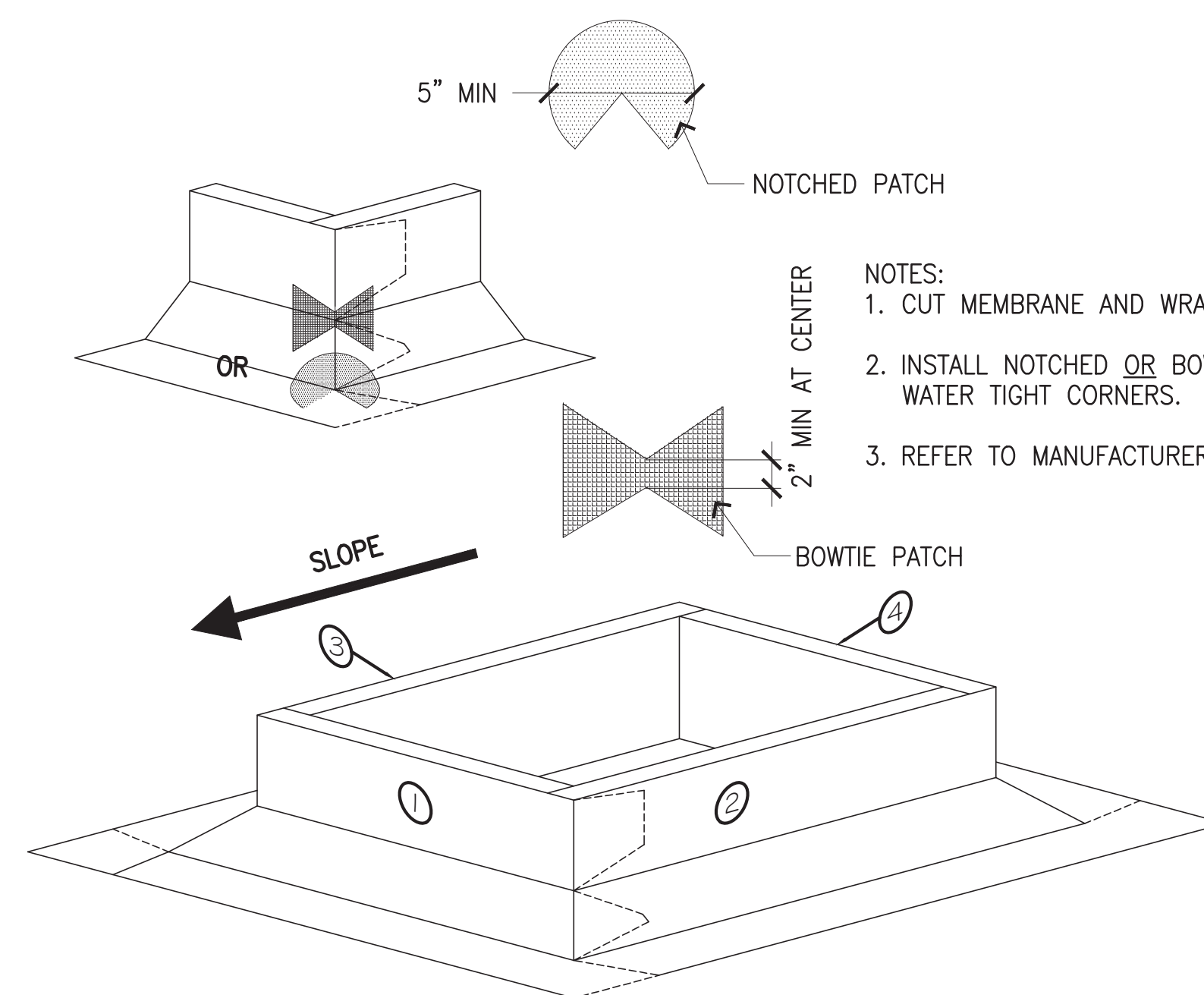
A-201 SCALE: 3/8" = 1'-0"



**2 HVAC DUCT CURB**

A-201 SCALE: 6" = 1'-0"

- NOTES:
- ALL 2X WOOD FRAMING TO BE FIRE TREATED.
  - WOOD NAILERS MUST BE INSTALLED WITH SUITABLE FASTENERS TO MEET APPLICABLE BUILDING CODES (200 LBS PER LINEAR FOOT MIN IN ANY GIVEN DIRECTION).
  - REFER TO MANUFACTURER FOR APPROPRIATE LAP SEALING APPLICATIONS.



**3 CURB FLASHING**

A-201 SCALE: 1/4" = 1'-0"



GENERAL:

- A. WORKMANSHIP AND MATERIALS SHALL CONFORM TO THE BUILDING CODE AS STATED BELOW. HOWEVER, WHERE REFERENCE IS MADE TO PERFORMANCE CONFORMING TO OTHER STANDARDS THE MORE STRINGENT SHALL APPLY.
  - 1. INTERNATIONAL BUILDING CODE (IBC) 2018
- B. THE CONTRACTOR SHALL COMPARE ALL THE CONTRACT DOCUMENTS WITH EACH OTHER AND REPORT IN WRITING TO THE DOT-A ALL INCONSISTENCIES AND OMISSIONS.
- C. THE CONTRACTOR SHALL TAKE FIELD MEASUREMENTS AND VERIFY FIELD CONDITIONS AND SHALL COMPARE SUCH FIELD MEASUREMENTS AND CONDITIONS WITH THE DRAWINGS BEFORE COMMENCING WORK. REPORT IN WRITING TO THE DOT-A ALL INCONSISTENCIES AND OMISSIONS.
- D. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING THE WORK OF ALL TRADES.
- E. THE CONTRACTOR SHALL BE RESPONSIBLE FOR METHODS OF CONSTRUCTION, WORKMANSHIP AND JOB SAFETY. THE CONTRACTOR SHALL PROVIDE TEMPORARY SHORING AND BRACING AS REQUIRED FOR STABILITY OF STRUCTURAL MEMBERS AND SYSTEMS.
- F. CONSTRUCTION LOADING SHALL NOT EXCEED DESIGN LIVE LOAD UNLESS SPECIAL SHORING IS PROVIDED. ALLOWABLE LOADS SHALL BE REDUCED IN AREAS WHERE THE STRUCTURE HAS NOT ATTAINED FULL DESIGN STRENGTH.
- G. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTION OF THE ADJACENT PROPERTIES, STRUCTURES, STREETS AND UTILITIES DURING THE CONSTRUCTION PERIOD.
- H. DETAILS NOTED AS TYPICAL ON THE STRUCTURAL DRAWINGS SHALL APPLY IN ALL CONDITIONS UNLESS SPECIFICALLY SHOWN OR NOTED.

DEMOLITION, REMOVAL AND RELOCATION WORK:

- A. THE CONSTRUCTION DRAWINGS INDICATE THE GENERAL EXTENT OF REQUIRED DEMOLITION AND REMOVAL WORK.
- B. THE CONTRACTOR SHALL FIELD VERIFY EXISTING CONDITIONS (PRIOR TO BID) TO DETERMINE THE EXTENT OF ALL REQUIRED DEMOLITION WORK. THE REMOVAL OR DEMOLITION OF MATERIALS, ACCESSORIES, FIXTURES, ETC., SHALL BE COMPLETE AND INCLUDE ALL RELATED ITEMS TO THE EXTENT THAT FUTURE CONSTRUCTION CAN BE PERFORMED AND COMPLETED WITHOUT ADDITIONAL COST TO THE STATE.
- C. ALL NECESSARY PRECAUTIONS SHALL BE TAKEN TO INSURE AGAINST DAMAGE TO EXISTING ITEMS AND FEATURES REMAINING IN PLACE.
- D. THE CONTRACTOR SHALL REMOVE EXISTING ITEMS AS DEEMED NECESSARY SO THAT FUTURE WORK CAN BE PERFORMED AND ALSO, SO THAT ANY EXISTING ITEM IS NOT DAMAGED WHEN FUTURE WORK IS PERFORMED. THE CONTRACTOR SHALL ALSO INSTALL ANY OR ALL OF THE ITEMS, PATCH AND RESTORE SURROUNDING SURFACES AS REQUIRED AS PART OF THE WORK ACCEPTABLE TO DOT-A.
- E. LOCATION OF UTILITIES AND PIPES SHOWN ON THE PLANS ARE APPROXIMATE ONLY. THE CONTRACTOR SHALL VERIFY THE EXACT LOCATIONS OF THE EXISTING UTILITIES AND SHALL BE RESPONSIBLE FOR ANY DAMAGES TO THEM. ANY PORTION OF THE EXISTING UTILITIES THAT MUST BE REMOVED OR OTHERWISE DISTURBED TO ACCOMPLISH THIS WORK CALLED FOR ON THE PLANS SHALL BE RECONSTRUCTED, REPLACED OR RESTORED TO THE ORIGINAL CONDITION AT THE CONTRACTOR'S OWN EXPENSE.

DESIGN CRITERIA:

- A. ROOF LIVE LOAD: 20 PSF
- B. WIND DESIGN DATA:
  - 1. ULTIMATE DESIGN WIND SPEED (3-SEC GUST, VULT): 150 MPH
  - 2. EFFECTIVE NOMINAL DESIGN WIND SPEED (3-SEC GUST, VEFF-ASD): 119 MPH
  - 3. RISK CATEGORY: III
  - 4. EXPOSURE CATEGORY: B

SPECIAL INSPECTIONS:

- A. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ENSURING THAT SPECIAL INSPECTION OF PORTIONS OF THE WORK AS REQUIRED BY THE BUILDING CODE IS MADE AT THE APPROPRIATE TIME. THE CONTRACTOR SHALL SUBMIT STATEMENT OF RESPONSIBILITY TO DOT-A PRIOR TO THE COMMENCEMENT OF WORK. THE CONTRACTOR SHALL GIVE TIMELY NOTICE OF WHEN AND WHERE INSPECTIONS ARE TO BE MADE AND PROVIDE ACCESS FOR THE INSPECTOR. FREQUENCY OF INSPECTION IS DEFINED IN THE IBC, SECTION 1705 TABLES. THE CONTRACTOR SHALL CORRECT DEFECTIVE WORK AT NO ADDITIONAL COST TO THE STATE AND PAY FOR RE-INSPECTION AS REQUIRED.
- B. SPECIAL INSPECTORS SHALL KEEP RECORDS OF INSPECTIONS. REPORTS SHALL INDICATE THAT WORK INSPECTED WAS DONE IN CONFORMANCE WITH APPROVED CONSTRUCTION DOCUMENTS. THE INSPECTOR SHALL SUBMIT A FINAL SIGNED REPORT TO DOT-A.
- C. THE FOLLOWING TYPE OF WORK LISTED IN THE IBC, SECTION 1705, AS AMENDED BY THE CITY AND COUNTY OF HONOLULU, REQUIRES SPECIAL INSPECTION:
  - 1. CONCRETE CONSTRUCTION
    - a. POST-INSTALLED CONCRETE BOLTS.

CONCRETE ANCHOR ADHESIVE:

- A. CONCRETE ANCHOR ADHESIVE SHALL BE:
  - 1. HILTI HIT-HY 200-R V3 (ESR 4868)
  - 2. DEWALT PURE 110+ (ESR 3298)
  - 3. SIMPSON SET-XP (ESR 2508)
  - 4. OR APPROVED EQUAL
- B. FASTENERS AND ANCHORS:
  - 1. CARBON AND ALLOY STEEL NUTS: ASTM A563.
  - 2. CARBON STEEL WASHERS: ASTM F436.
  - 3. CARBON STEEL THREADED ROD: ASTM A36.
  - 4. HOT-DIP GALVANIZING FOR FASTENERS: ASTM F2329.
- G. INSTALL ONLY WHERE INDICATED ON DRAWINGS. SUBSTITUTION FOR EMBEDDED ANCHORS IS ALLOWED ONLY WHERE INDICATED OR WHEN APPROVED BY ENGINEER.
- H. VERIFY EXISTING CONCRETE THICKNESS PRIOR TO INSTALLING POST-INSTALLED ANCHORS TO ENSURE THICKNESS IS ADEQUATE FOR REQUIRED EMBEDMENT DEPTH.
- I. LOCATE ANY EXISTING REINFORCING STEEL PRIOR TO DRILLING HOLES AND RELOCATE HOLE SLIGHTLY AS REQUIRED.
- J. INSTALL IN ACCORDANCE WITH MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS.
- K. SPECIAL INSPECTION SHALL BE PERFORMED BY THE ENGINEER OF RECORD OR THEIR PERSONNEL. CONTRACTOR TO PROVIDE ITEMS INDICATED IN SPECIAL INSPECTIONS NOTE PARAGRAPH A.

STRUCTURAL STEEL:

- A. FABRICATION AND ERECTION OF STRUCTURAL STEEL SHALL CONFORM TO THE AMERICAN INSTITUTE OF STEEL CONSTRUCTION MANUAL OF STEEL CONSTRUCTION, SIXTEENTH EDITION.
- B. STEEL WIDE FLANGE SECTIONS SHALL CONFORM TO ASTM A992 UNLESS OTHERWISE NOTED.
- C. CHANNELS AND ANGLES SHALL CONFORM TO ASTM A36
- D. PLATES AND BARS SHALL CONFORM TO ASTM A36.
- E. BOLTS SHALL CONFORM TO ASTM A307, GRADE A UNLESS OTHERWISE NOTED.
- F. WELDS AND WELDING PROCEDURES SHALL CONFORM TO THE STRUCTURAL WELDING CODE AWS D1.1 OF THE AMERICAN WELDING SOCIETY.
- G. WELDING SHALL BE PERFORMED BY WELDERS PREQUALIFIED FOR WELDING PROCEDURES TO BE USED.
- H. WELDING ELECTRODES SHALL BE E70XX.
- I. STEEL SHALL BE HOT-DIPPED GALVANIZED ACCORDING TO ASTM A123 AND ALL BE PAINTED IN THE SHOP.
- J. ALL ANCHOR BOLTS, AND OTHER ITEMS TO BE CAST IN CONCRETE SHALL BE HOT-DIPPED GALVANIZED ACCORDING TO ASTM F2329 UNLESS OTHERWISE NOTED.

STEEL PAINTING:

- A. EXPOSED CARBON STEEL MEMBERS AND COMPONENTS SHALL BE PAINTED AFTER HOT-DIP GALVANIZING.
- B. PAINT SYSTEM: EPOXY AND SATIN POLYSILOXANE COATING
  - 1. PRETREATMENT: SOLVENT CLEAN SURFACE TO SSPC-SP 1 FOLLOWED BY POWER TOOL CLEANING TO SSPC-SP 3 OR HAND TOOL CLEANING TO SSPC-SP 2.
  - 2. PRIMER: PPG AMERCOAT, AMERLOCK SEALER TWO-COMPONENT EPOXY PRIMER SEALER, 1.0 TO 1.5 MILS DRY FILM THICKNESS, ONE COAT.
  - 3. INTERMEDIATE: PPG AMERCOAT, AMERLOCK 2 TWO-COMPONENT EPOXY COATING, 5 TO 7 MILS DRY FILM THICKNESS, ONE COAT.
  - 4. TOPCOAT: PPG AMERCOAT, PSX 805 SATIN POLYSILOXANE, 4 TO 6 MILS DRY FILM THICKNESS, ONE COAT.
  - 5. SYSTEM DFT: 10-14.5 MILS
  - 6. INSTALL IN ACCORDANCE WITH PAINT MANUFACTURER'S PUBLISHED INSTALLATION INSTRUCTIONS. IF COATING SYSTEM PRODUCTS, DRY FILM THICKNESS, OR INSTALLATION REQUIREMENTS LISTED ABOVE DIFFER FROM MANUFACTURER'S RECOMMENDATION, MANUFACTURER'S RECOMMENDATION SHALL GOVERN.
- C. TOUCH UP BARE AREAS AND COATS THAT HAVE BEEN DAMAGED. WIRE BRUSH, SOLVENT CLEAN, AND TOUCH UP FOLLOWING MANUFACTURER'S RECOMMENDATION.
- I. COLOR TO BE SELECTED BY DOT-A FROM MANUFACTURER'S STANDARD COLOR CATALOG.

ABBREVIATIONS

AC	ASPHALT CONCRETE
AHU	AIR HANDLING UNIT
BLDG	BUILDING
CJ	CONSTRUCTION JOINT
CLR	CLEAR
CMU	CONCRETE MASONRY UNIT
CONC	CONCRETE
CONT	CONTINUOUS
CSP	CONCRETE SURFACE PROFILE
DIA	DIAMETER
DH	DIAMOND HEAD
E.W.	EACH WAY
ELEC	ELECTRICAL
ELEV	ELEVATION
EQ	EQUAL
(E)	EXISTING
EXP	EXPANSION
F.V.	FIELD VERIFY
GA	GAUGE
GALV	GALVANIZED
G.W.V.	GROSS WEIGHT VEHICLE
HPC	HYBRID POLYMER CONCRETE
HORIZ	HORIZONTAL
MANUF	MANUFACTURER
MAX	MAXIMUM
MIN	MINIMUM
O.C.	ON CENTER
OD	OUTSIDE DIAMETER
REINF	REINFORCEMENT
SIM	SIMILAR
SS	STAINLESS STEEL
STD	STANDARD
TYP	TYPICAL
W/	WITH
VERT	VERTICAL
Ø	DIAMETER
⊕	CENTERLINE
℄	BASE LINE (ROADWAY)



DSGN.	DRWN.	CHKD.	APPD.
MG	MG	SP	-

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**  
APRIL 30, 2024  
DATE

**PROJECT TITLE :**  
**TERMINAL 2 TSA CHECKPOINT 3 INTERIOR QUEUE INSTALL NEW AC**  
AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

**PROJECT NO.:**  
**CO1451-43**

**SHEET TITLE:**

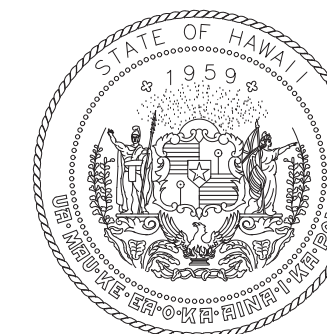
**STRUCTURAL NOTES**

DATE :	DWG. NO.
APRIL 2024	<b>S-001</b>
SHEET :	
8 OF 17 SHEETS	

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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS

DSGN.	DRWN.	CHKD.	APPD.
MG	MG	SP	-

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

APRIL 30, 2024  
DATE

PROJECT TITLE :

**TERMINAL 2 TSA  
CHECKPOINT 3 INTERIOR  
QUEUE INSTALL NEW AC**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1451-43**

SHEET TITLE:

**ROOF PLAN**

DATE :

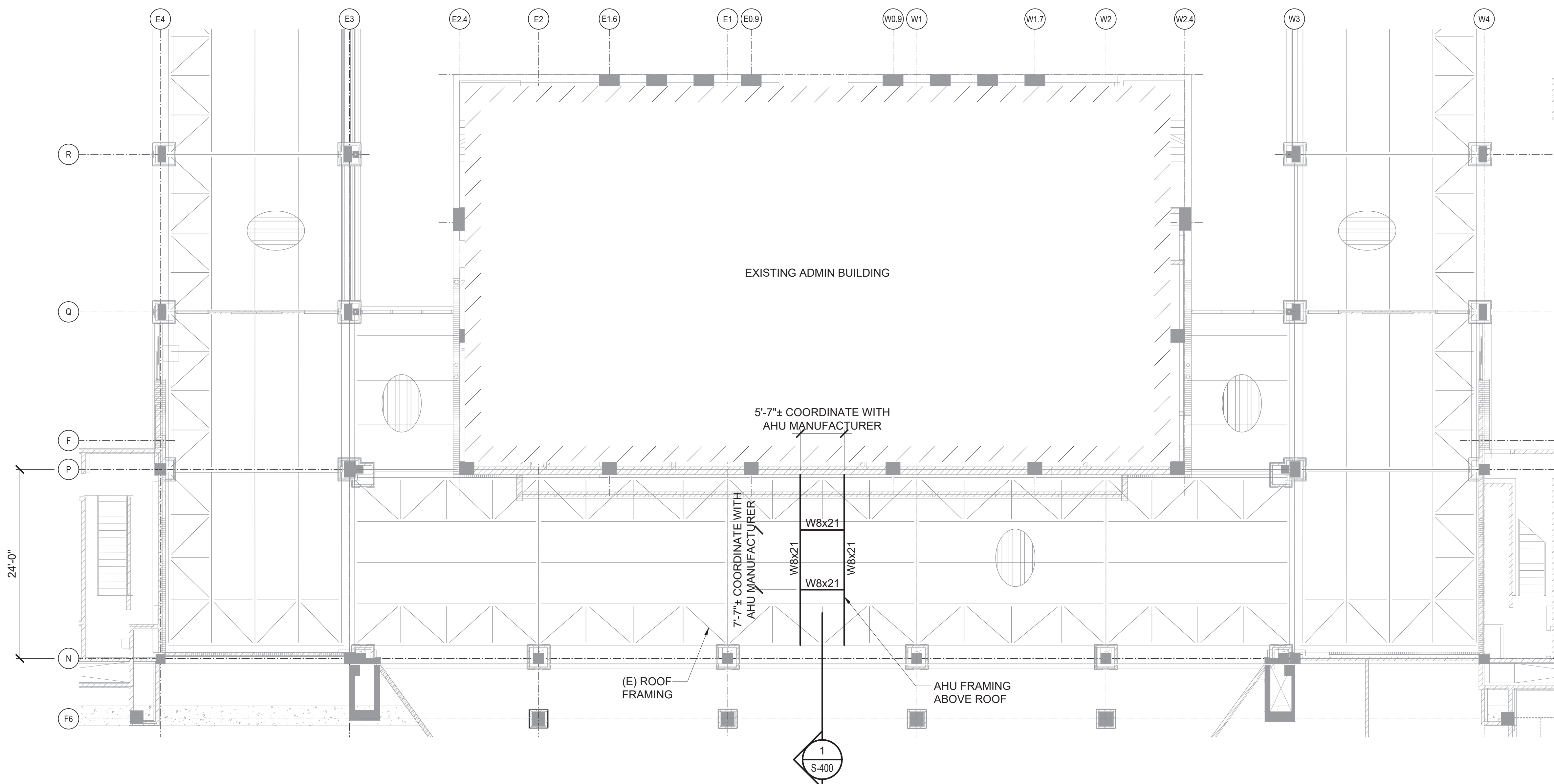
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SHEET :

9 OF 17 SHEETS

DWG. NO.

**S-200**

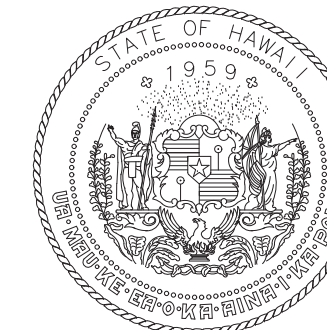


**1 LEVEL 3 PARTIAL CEILING FRAMING PLAN**  
SCALE: 1/8" = 1'-0"



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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS

DSGN.	DRWN.	CHKD.	APPD.
MG	MG	SP	-

KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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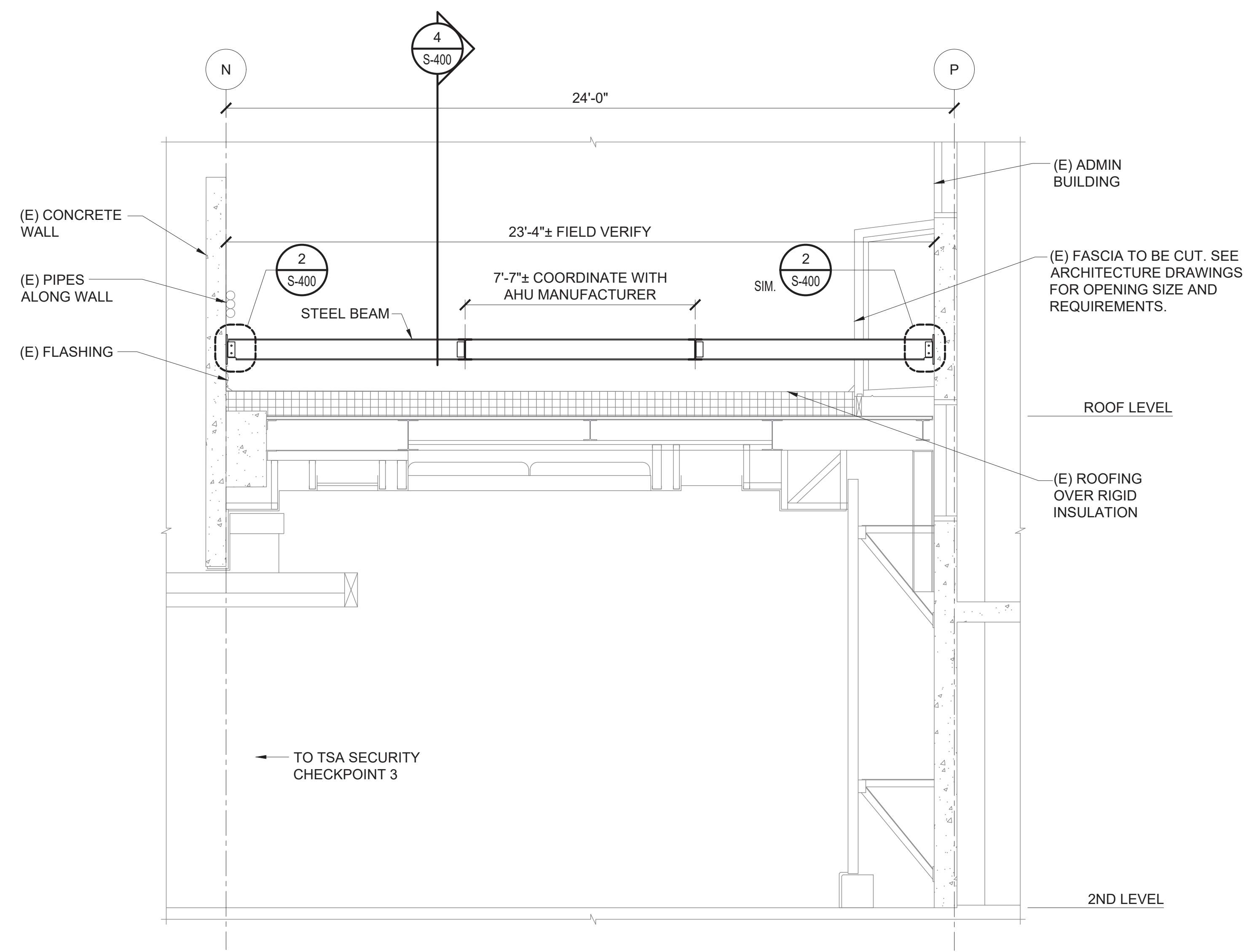
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APRIL 30, 2024  
DATE

PROJECT TITLE :  
**TERMINAL 2 TSA CHECKPOINT 3 INTERIOR QUEUE INSTALL NEW AC**  
AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

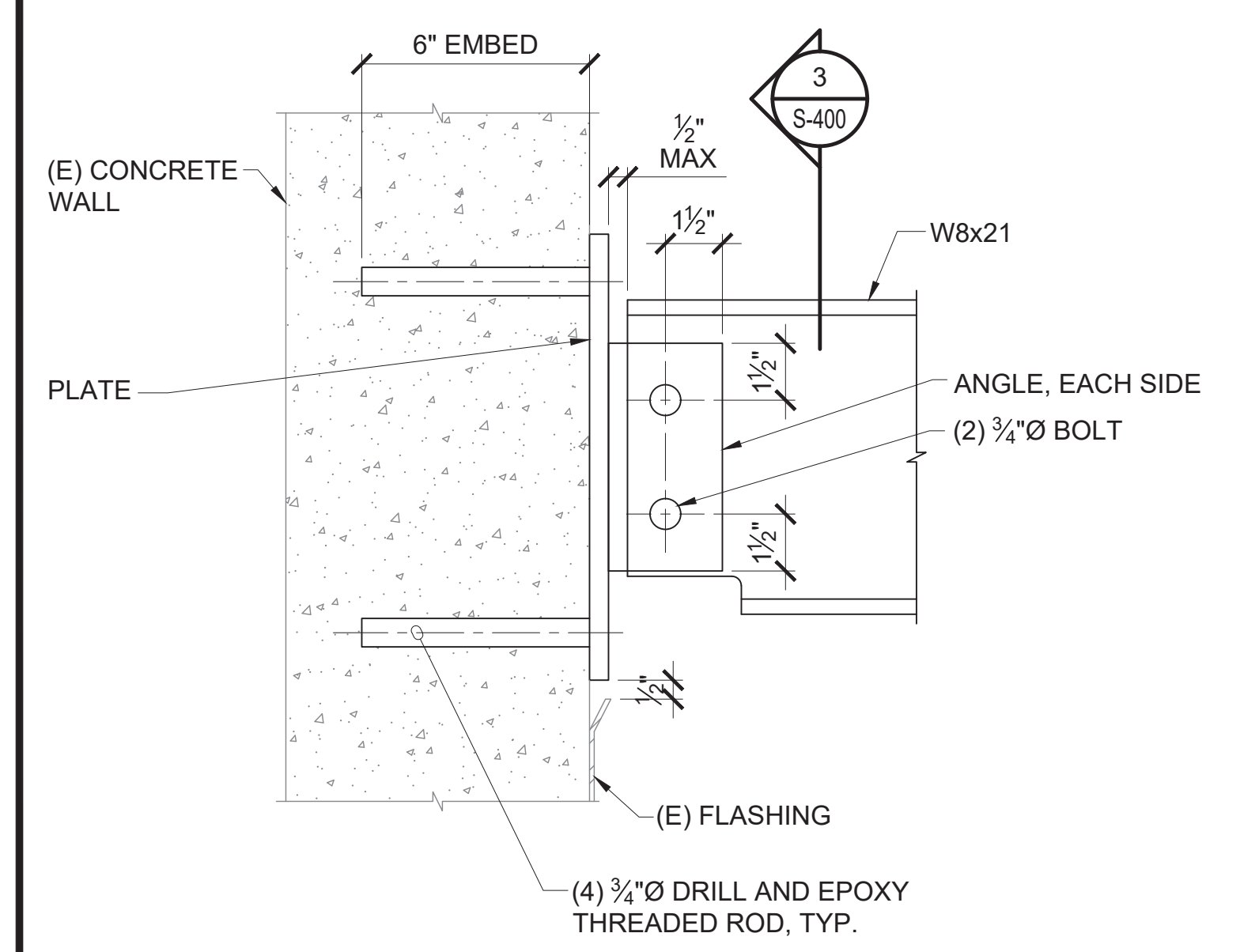
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**CO1451-43**

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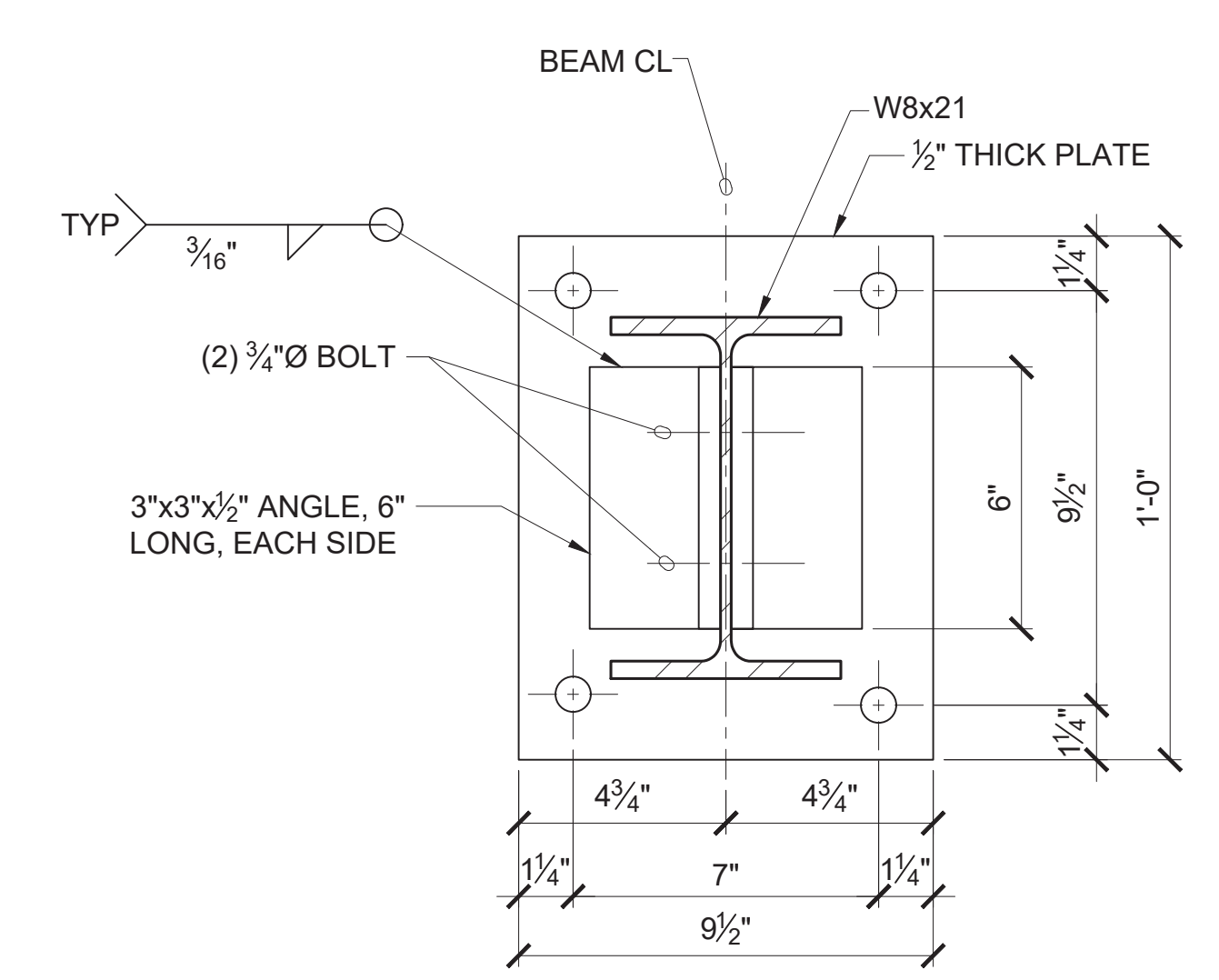
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APRIL 2024	<b>S-400</b>
SHEET :	
10 OF 17 SHEETS	



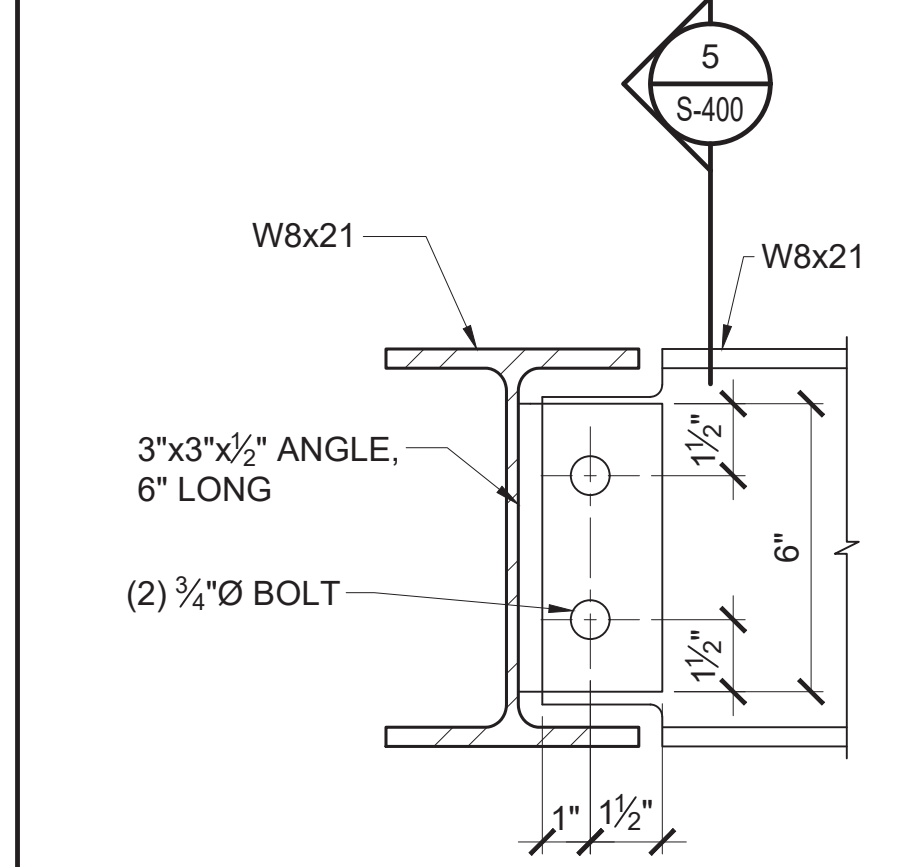
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S-400 SCALE: 3/8" = 1'-0"



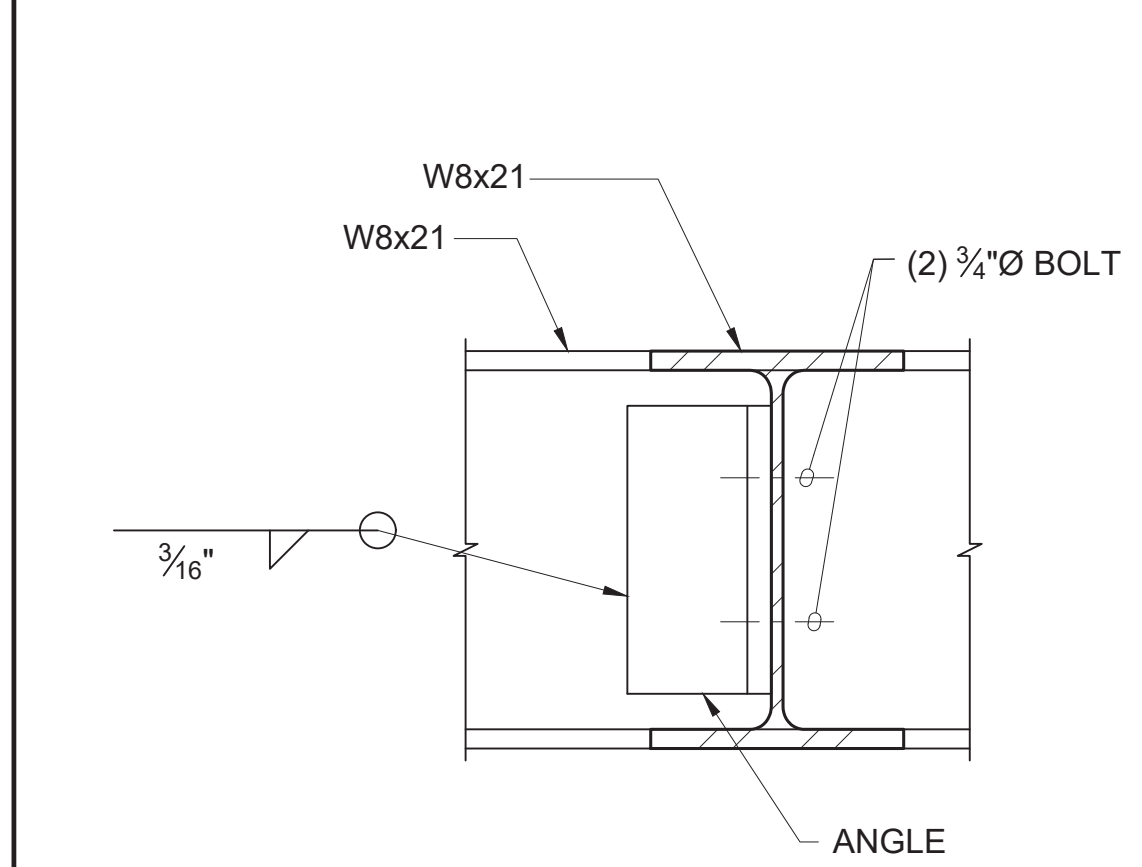
**2 CONCRETE CONNECTION DETAIL**  
S-400 SCALE: 3" = 1'-0"



**3 SECTION**  
S-400 SCALE: 3" = 1'-0"



**4 SECTION**  
S-400 SCALE: 3" = 1'-0"



**5 SECTION**  
S-400 SCALE: 3" = 1'-0"

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**CONSTRUCTION NOTES:**

1. CONTRACTOR SHALL VISIT THE SITE AND BE COMPLETELY FAMILIAR WITH THE EXISTING CONDITIONS AND THE AMOUNT AND KIND OF WORK TO BE PERFORMED. EXISTING CONDITIONS ARE BASED ON BEST AVAILABLE INFORMATION. CONTRACTOR SHALL VERIFY THE LOCATION, INVERT, SIZE AND CONDITION OF EXISTING UTILITIES AND NOTIFY THE ENGINEER IMMEDIATELY IF ANY DISCREPANCIES ARE ENCOUNTERED.
  2. FOR THE ACTUAL FABRICATION, INSTALLATION, AND TESTING OF WORK UNDER THIS SECTION, THE CONTRACTOR SHALL USE ONLY THOROUGHLY TRAINED AND EXPERIENCED WORKMEN, COMPLETELY FAMILIAR WITH THE ITEMS REQUIRED AND WITH THE MANUFACTURERS' RECOMMENDATIONS AS TO THEIR USE.
  3. ALL WORK SHALL CONFORM TO THE INTERNATIONAL BUILDING CODE AND ASCE 7 AND STATE AND COUNTY AMENDMENTS, INTERNATIONAL ENERGY CONSERVATION CODE (IECC) 2018 AND AMENDMENTS, UNIFORM PLUMBING CODE, INTERNATIONAL MECHANICAL CODE, UNIFORM FIRE CODE, NATIONAL FIRE CODE, NATIONAL FIRE PROTECTION ASSOCIATION REQUIREMENTS, NATIONAL ELECTRIC CODE, TITLE 11 ADMINISTRATIVE RULES, DOH, CHAPTER 39-AIR CONDITIONING AND VENTILATION, AND ALL OTHER APPLICABLE CODES AND STANDARDS.
  4. ALL WORK SHALL CONFORM TO AND BE IN ACCORDANCE WITH THE WIND LOAD AND SEISMIC DESIGN REQUIREMENTS OF THE 2018 IBC AND ASCE 7. SEISMIC RESTRAINT PRODUCTS SHALL BE PROVIDED AND CERTIFIED BY MASON INDUSTRIES.
  5. CONTRACTOR SHALL PROVIDE, INSTALL AND MAINTAIN ALL NECESSARY SIGNS, LIGHTS, FLARES, BARRICADES, AND OTHER PROTECTIVE DEVICES FOR THE PROTECTION, SAFETY AND CONVENIENCE OF THE PUBLIC.
  6. CONTRACTOR SHALL OBTAIN ALL NECESSARY PERMITS AND PAY ALL APPLICABLE FEES PRIOR TO COMMENCING ANY WORK.
  7. CONTRACTOR SHALL PROVIDE (6) SETS OF SUBMITTALS AND SHOP DRAWINGS FOR ALL MATERIALS AND EQUIPMENT FOR APPROVAL BY THE ENGINEER PRIOR TO COMMENCING ANY WORK. ALL WORK DONE WITHOUT PRIOR APPROVAL SHALL BE SUBJECT TO REPAIR OR REPLACEMENT AT NO ADDITIONAL COST TO THE OWNER.
  8. MATERIALS: MANUFACTURERS SHOWN ON THE CONSTRUCTION DOCUMENTS OR IN THE PROJECT SPECIFICATIONS INDICATE STYLE AND QUALITY. EQUIVALENT FIXTURES MAY BE SUBSTITUTED WITH APPROVAL OF THE ENGINEER.
  9. OMISSION: SHOULD IT APPEAR THAT ANY PORTION OF THE SYSTEM HAS BEEN OMITTED FROM THE PLANS, THE CONTRACTOR SHALL CALL THE ATTENTION OF THE ENGINEER TO SUCH APPARENT OMISSION ONE WEEK BEFORE THE DATE OF BID OPENING SO THAT CORRECTION MAY BE MADE. OTHERWISE, THE CONTRACTOR SHALL FURNISH AND INSTALL, IN A MANNER CORRESPONDING WITH THE REST OF THE WORK, AS IF THE SAME WERE SPECIFIED AND SPECIFICALLY PROVIDED FOR.
  10. **PLUMBING PRODUCTS:**
    - A. WATER PIPING BELOW AND ABOVE GRADE SHALL BE TYPE "K" COPPER. FITTING AND INSTALLATION SHALL BE IN ACCORDANCE WITH THE CURRENT UPC AND AMENDMENTS. "PLASTI-SLEEVE" OR ACCEPTABLE EQUAL, 10 MIL IN THICKNESS, SHALL BE INSTALLED ON ALL UNDERGROUND PIPING AND PIPING EMBEDDED IN CONCRETE. SOLDER FOR ALL DOMESTIC WATER PIPES SHALL BE "LEAD-FREE" SILVER SOLDER. FLUX SHALL BE NON-CORROSIVE COMPLYING WITH COPPER DEVELOPMENT ASSOCIATION STANDARD I.O. SOLDER FOR ALL DOMESTIC WATER PIPES SHALL BE "LEAD-FREE" 95-5 OR SILVER SOLDER. CONTRACTOR SHALL PROVIDE DIELECTRIC UNIONS AND COUPLINGS FOR CONNECTIONS OF PIPES AND FITTINGS OF DISSILMAR METALS. ALL HOT WATER LINES SHALL BE INSULATED IN ACCORDANCE WITH THE IECC 2018.
    - B. SOIL, WASTE, VENT, AND INTERIOR ROOF DRAIN PIPING AND FITTINGS SHALL BE NO-HUB CAST IRON PIPE AND FITTINGS IN ACCORDANCE WITH THE CURRENT UPC AND AMENDMENTS. CONTRACTOR SHALL PROVIDE DIELECTRIC UNIONS AND COUPLINGS FOR CONNECTIONS OF PIPES AND FITTINGS OF DISSILMAR METALS.
- EXECUTION**  
**EXCAVATION AND BACKFILL**
- A. TRENCHES FOR ALL UNDERGROUND PIPE LINES SHALL BE EXCAVATED TO THE REQUIRED DEPTHS. THE BOTTOMS OF THE TRENCHES SHALL BE TAMPED HARD AND GRADED TO SECURE THE REQUIRED FALL. BELL HOLES SHALL BE EXCAVATED SO THAT PIPE WILL REST ON SOLID GROUND FOR ITS ENTIRE LENGTH. ROCK, WHERE ENCOUNTERED, SHALL BE EXCAVATED TO A DEPTH OF 6 INCHES BELOW THE BOTTOM OF THE PIPE AND ROCK SURFACE SHALL BE FILLED WITH SAND.
  - B. AFTER PIPE LINES HAVE BEEN TESTED, INSPECTED, AND APPROVED, PRIOR TO BACKFILLING, FORMS SHALL BE REMOVED AND THE EXCAVATION SHALL BE CLEANED OF TRASH AND DEBRIS. MATERIALS FOR BACKFILLING SHALL CONSIST OF THE EXCAVATION EXCEPT ADOBE, OR BORROW OF SAND, GRAVEL AND OTHER MATERIALS APPROVED BY THE ENGINEER, AND SHALL BE FREE OF TRASH, LUMBER OR OTHER DEBRIS. BACKFILL SHALL BE PLACED IN HORIZONTAL LAYERS NOT EXCEEDING 9" IN THICKNESS, AND PROPERLY MOISTENED TO APPROXIMATE OPTIMUM CONDITIONS. EACH LAYER SHALL BE COMPACTED BY HAND OR MACHINE TAMPERS OR BY OTHER SUITABLE EQUIPMENT TO A DENSITY THAT WILL PREVENT EXCESSIVE SETTLEMENT OR SHRINKAGE. BACKFILL SHALL BE BROUGHT TO SUITABLE ELEVATION ABOVE GRADE TO PROVIDE ANTICIPATED SETTLEMENT AND SHRINKAGE THEREOF. THE BACKFILL SHALL BE TAMPED TO DENSITY EQUAL TO THE SURROUNDING EARTH UNDER CONCRETE FLOOR AND PAVING.
- PREPARATION**
- A. INVESTIGATE THE CONTRACT DOCUMENTS AND MAKE PROPER PROVISIONS TO AVOID INTERFERENCES OR CONSTRUCTION DELAYS. DETERMINE THE EXACT ROUTE OF EACH PIPE. MAKE OFF-SETS AND CHANGES IN DIRECTION REQUIRED TO MAINTAIN PROPER HEAD ROOM AND PITCH OR TO ACCOMMODATE THE STRUCTURE AND THE WORK OF OTHER TRADES. FURNISH OTHER TRADES WITH INFORMATION TO PROPERLY LOCATE AND SIZE OPENINGS IN THE STRUCTURE REQUIRED FOR THIS WORK. FURNISH ANCHOR BOLTS, SLEEVES, INSERTS, AND SUPPORTS REQUIRED FOR THIS WORK.
- PIPING INSTALLATION AND PIPE SYSTEM SUPPORTS**
- ALL PIPING INSTALLATION SHALL CONFORM TO THE CURRENT UNIFORM PLUMBING CODE, IBC 2018 (SEISMIC RESTRAINTS), AND ASCE 7 (SEISMIC RESTRAINTS) AS APPLICABLE. ALL PIPING SHALL BE LABELED.
- A. NO PIPE SHALL BE CLOSED UP, FURRED IN, BUTTED, OR OTHERWISE HIDDEN UNTIL IT HAS BEEN INSPECTED, TESTED, AND APPROVED BY THE PROPER AUTHORITIES.
  - B. UNLESS SPECIFICALLY NOTED OTHERWISE, GRAVITY SANITARY AND DRAINAGE PIPING SHALL SLOPE NOT LESS THAN 1/4 INCH PER FOOT OR HORIZONTAL RUN.
  - C. ALL PIPING SHALL BE INSPECTED INSIDE AND OUT BEFORE INSTALLATION AND NO OBSTRUCTIONS SHALL BE ALLOWED. PIPE ENDS SHALL BE TAPER REAMED TO FULL I.D. AND ALL BURRS REMOVED.
  - D. UNDERGROUND PIPES PASSING THROUGH WALLS OR AREAS BELOW WALLS OR FOOTINGS SHALL BE PROVIDED WITH PIPE SLEEVES ONE SIZE LARGER AND MADE WATER-TIGHT AT THE SLEEVES. PROVIDE SHEET METAL THIMBLES WHERE PIPES PASS THROUGH FLOORS OR NONSTRUCTURAL MEMBERS; STEEL PIPE SLEEVES WHERE PIPES PASS THROUGH STRUCTURAL MEMBERS AND CONCRETE WALLS.
  - E. ANCHOR PIPING IN BUILDING WITH APPROVED CLAMPS OR ADJUSTABLE HANGERS SPACED IN ACCORDANCE WITH UNIFORM PLUMBING CODE. SEISMIC RESTRAINTS SHALL BE IN ACCORDANCE WITH IBC 2018 AND ASCE 7 AS APPLICABLE.
  - F. ON ROOF DRAINS AND WHERE OTHER DRAINS OCCUR ABOVE THE GROUND FLOOR, PROVIDE CLAMPING DEVICE WITH DRAIN. PROVIDE A FOUR-POUND LEAD FLASHING SHEET EXTENDING EIGHT INCHES OUT AROUND DRAIN BODY AND SECURE WITH CLAMPING DEVICE. ON VENTS THROUGH ROOF, EXTEND VENT FLASHING EIGHT INCHES OUT ALL AROUND BASE OF ROOF, EXTEND COLLAR UP VENT AND TURN IN AT TOP.

- G. SECURE EACH WATER LINE WHERE IT PENETRATES PARTITIONS TO SERVE FIXTURES, SHOWER ARMS, HOSE BIBS, AND SIMILAR ITEMS. WRAP ALL LINES PASSING THROUGH CONCRETE WITH POLYETHYLENE TAPE. INSTALL UNIONS OR FLANGES AT ALL VALVES, EQUIPMENT AND SYSTEM SPECIALTIES. SET HOSE BIBS 18-INCHES ABOVE FINISH GRADE, UNLESS OTHERWISE INDICATED.
- H. PROVIDE CONCRETE THRUST BLOCKS AT EACH CHANGE IN DIRECTION IN UNDERGROUND WATER-PIPING, DRAINAGE AND SEWAGE FORCE MAIN SYSTEMS.

**TESTING AND CLEANUP**

- A. DRAINAGE AND SANITARY PIPING SHALL BE TESTED IN ACCORDANCE WITH CURRENT UNIFORM PLUMBING CODE AND ALL OTHER APPLICABLE CODES. WATER PIPING SHALL BE TESTED AT 150 PSI FOR 15-MINUTES WITHOUT LEAKING. CONTRACTOR SHALL FURNISH ALL EQUIPMENT FOR THE TESTS AND PAY FOR ALL COSTS OF REPAIRING ANY DAMAGE RESULTING FROM SUCH TESTS. CONTRACTOR SHALL ADJUST SYSTEMS UNTIL THEY ARE APPROVED. TESTS SHALL BE PERFORMED IN THE PRESENCE OF, AND TO THE SATISFACTION OF THE OWNER'S REPRESENTATIVE AND INSPECTOR OF THE OFFICIAL AGENCY INVOLVED.
- B. UPON COMPLETION OF WORK ALL STAINS AND DEFECTS MARRING OR DEFACING WALLS, CEILINGS, FIXTURES, OR FLOORS CAUSED BY THE CONTRACTOR'S WORK SHALL BE CLEANED OR REPLACED WITH NEW MATERIAL. ALL FIXTURES SHALL BE WASHED AND POLISHED EVERYTHING LEFT IN "BROOM CLEAN" CONDITION READY FOR USE.

11. CONTRACTOR SHALL PROVIDE AS-BUILT DRAWINGS UPON COMPLETION AND ACCEPTANCE OF THE WORK.
12. CONTRACTOR SHALL PROVIDE A WRITTEN GUARANTEE TO REPAIR OR REPLACE AT HIS OWN EXPENSE ANY PARTS THAT MAY DEVELOP ANY DEFECTS DUE TO FAULTY MATERIALS OR WORKMANSHIP FOR A PERIOD OF ONE (1) YEAR AFTER FINAL PAYMENT.
13. THE CONTRACTOR SHALL PROVIDE A ONE-YEAR MAINTENANCE CONTRACT BASED ON THE REQUIREMENTS INDICATED IN THE MECHANICAL SPECIFICATIONS. THE COST OF THE ONE-YEAR MAINTENANCE CONTRACT SHALL BE INCLUDED IN THE CONTRACTOR'S BASE BID.
14. ALL CONSTRUCTION SHALL CONFORM TO THE 2018 IBC AND THE LATEST MAUI COUNTY / STATE OF HAWAII AMENDMENTS AND ORDINANCES.
15. THE AIR CONDITIONING AND VENTILATION SYSTEMS SHALL COMPLY WITH CHAPTER 3-181, HAWAII ADMINISTRATIVE RULES, STATE ENERGY CONSERVATION CODE-2009, DOH CHAPTER 39, AIR CONDITIONING & VENTILATION REQUIREMENTS.
16. **AIR CONDITIONING/VENTILATION PRODUCTS:**
  - A. DUCT WORK: DUCT WORK SIZES SHOWN ON THE DRAWINGS ARE INSIDE NET DIMENSIONS. ALL WORK SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF ASHRAE AND SMACNA. DUCT SUPPORTS SHALL BE IN ACCORDANCE TO SMACNA.

THE TOP OF ALL EXTERIOR DUCTWORK SHALL BE INSTALLED WITH A RIDGE OR PEAK TO PROVIDE POSITIVE CROSS-SLOPES TO PREVENT PONDING.

UNLESS OTHERWISE NOTED, ALL INTERIOR AIR CONDITIONING SUPPLY AND RETURN DUCTWORK ARE TO BE INTERNALLY-LINED WITH AP ARMAFLEX DUCT INSULATION OF MIN. R-VALUE IN ACCORDANCE WITH IECC 2018. FLEXIBLE CONNECTIONS SHALL BE NEOPRENE FIBERGLASS TYPE WITH 2-INCH AP ARMAFLEX TYPE INSULATION OVER FLEXIBLE CONNECTIONS, AIR HANDLING UNIT, AND DISCHARGE AND RETURN.

ALL EXTERIOR AIR CONDITIONING SUPPLY AND RETURN DUCTWORK ARE TO BE INTERNALLY-LINED WITH AP ARMAFLEX DUCT INSULATION OF MIN. R-VALUE IN ACCORDANCE WITH IECC 2018. FLEXIBLE CONNECTIONS SHALL BE NEOPRENE FIBERGLASS TYPE WITH 2-INCH AP ARMAFLEX TYPE INSULATION OVER FLEXIBLE CONNECTIONS, AIR HANDLING UNIT, AND DISCHARGE AND RETURN.

- B. REFER TO THE MECHANICAL EQUIPMENT SCHEDULE AND SPECIFICATIONS FOR THE AIR CONDITIONING AND VENTILATION EQUIPMENT.

**EXECUTION:**

- A. THE CONTRACTOR SHALL VISIT THE WORK SITE AND BECOME FULLY AWARE OF ALL EXISTING CONDITIONS. INVESTIGATE THE CONTRACTOR DOCUMENTS AND MAKE PROPER PROVISIONS TO AVOID INTERFERENCES OR CONSTRUCTION DELAYS. DETERMINE THE EXACT ROUTE OF EACH DUCT AND PIPE. MAKE OFFSETS AND CHANGES IN SHAPE OR DIRECTION REQUIRED TO MAINTAIN PROPER HEAD ROOM AND PITCH OR TO ACCOMMODATE THE STRUCTURE AND WORK OF OTHER TRADES. WHEN CHANGING THE SHAPE OF DUCTWORK, PROVIDE DUCTS HAVING THE SAME FRICTION LOSS AS THE SIZE OF THE DUCT SHOWN IN THE CONTRACT DOCUMENTS.
- B. FURNISH OTHER TRADES WITH INFORMATION TO PROPERLY LOCATE AND SIZE OPENINGS IN THE STRUCTURE REQUIRED FOR THE WORK UNDER THIS SECTION. FURNISH ANCHOR BOLTS, SLEEVES INSERTS AND SUPPORTS REQUIRED FOR ALL WORK. PROVIDE ACCESS PANELS FOR CONCEALED ITEMS PROVIDED UNDER THIS SECTION THAT REQUIRE MAINTENANCE, ADJUSTMENT OR INSPECTION.
- C. EQUIPMENT INSTALLATION: INSTALL EQUIPMENT IN THE SPACE ALLOTTED WITH SUFFICIENT CLEARANCE FOR PROPER OPERATION AND MAINTENANCE. WHERE EQUIPMENT DIFFERS IN ARRANGEMENT OR CONNECTIONS FROM THOSE SHOWN, AT NO ADDITIONAL COST TO THE OWNER, PROVIDE ALL REQUIRED CHANGES IN PIPING, SUPPORTS AND APPURTENANCES. PROVIDE EQUIPMENT ACCESSORIES NECESSARY FOR PROPER OPERATION AND SUPPORT. THE COST FOR ALL NECESSARY ACCESSORIES SHALL BE INCLUDED IN THE CONTRACTOR'S BASE BID.
- D. PIPE INSTALLATION: CONFORM TO RECOGNIZED COMMERCIAL STANDARDS AND THE UNIFORM PLUMBING CODE. PROVIDE PROPER SUPPORT AND ADEQUATE PROVISIONS FOR EXPANSION, CONTRACTION, SLOPE AND ANCHORING. PROVIDE DIELECTRIC UNIONS WHERE COPPER TUBING CONNECTIONS TO STEEL PIPE OR PIPE CONNECTIONS OF DISSILMAR METALS. WRAP PIPE OR TUBING WITH 1/4-INCH THICK FELT, SECURED WITH TAPE, WHERE IT CONTACTS OTHER MATERIALS. PROVIDE STANDARD WEIGHT GALVANIZED STEEL PIPE SLEEVES WHERE PIPE PASS THROUGH STRUCTURE, SUFFICIENTLY LARGE TO PROVIDE 1/4-INCH CLEARANCE AROUND PIPE. WRAP UNINSULATED PIPE WITH POLYETHYLENE TAPE WHERE IT PASSES THROUGH SLEEVE AND WHERE IT CONTACTS CONCRETE AND MASONRY. CAULK WATERTIGHT AROUND PIPES PASSING THROUGH SLEEVES.
- E. PIPE SUPPORTS: FACTORY-FABRICATED BY ELCCN, FEE AND MASON, GRINNELL OR UNISTRUT. SEISMIC PIPE BRACING: FACTORY-FABRICATED AND CERTIFIED BY MASON INDUSTRIES, INC. PROVIDE CONCRETE INSERTS, BEAM CLAMPS, CHANNEL FRAMING, HANGER RODS AND ACCESSORIES REQUIRED FOR PROPER PIPE SUPPORT IN ACCORDANCE WITH THE UNIFORM PLUMBING CODE AND ALL OTHER APPLICABLE CODES. ALL PIPE SUPPORTS, HANGERS, BRACINGS, ETC. SHALL BE SEISMICALLY BRACED AND SUPPORTED AS TO ADHERE TO THE REQUIREMENTS OF IBC 2018 AND ASCE 7.
- F. CONDENSATE DRAIN PIPING SYSTEMS: SLOPE LINES AT 1/4-INCH PER FOOT UNLESS OTHERWISE DIRECTED. PROVIDE A WATER SEAL WITH WATER COLUMN 1-INCH GREATER THAN THE TOTAL STATIC PRESSURE OF THE FAN IN INCHES OF WATER. MINIMUM SIZE OF DRAINS TO BE 1-INCH. PROVIDE PLUG TEES IN LIEU OF ELBOWS AT ABOVE GROUND CONDITIONS. ALL CONDENSATE DRAIN LINES AND FITTINGS SHALL BE PROVIDED WITH A MIN. 3/4" THICK AP ARMAFLEX CLOSED-CELL INSULATION.

- G. DUCT WORK: ALL WORK SHALL BE INSTALLED IN ACCORDANCE WITH THE REQUIREMENTS OF ASHRAE, SMACNA, IBC 2018 AND ASCE 7 (WIND-LOAD AND SEISMIC RESTRAINTS), WHICHEVER THE MOST STRINGENT OF THE CODE REQUIREMENTS. RECTANGULAR AND ROUND DUCTS SHALL BE MADE OF GALVANIZED SHEET METAL IN ACCORDANCE TO SMACNA. DUCT SUPPORTS AND WIND-LOAD AND SEISMIC RESTRAINTS SHALL BE IN ACCORDANCE WITH ASHRAE, SMACNA, IBC 2018 AND ASCE 7 REQUIREMENTS, WHICHEVER THE MOST STRINGENT OF THE CODE REQUIREMENTS.
- H. SPECIAL WIRING: ANY WIRING NOT SHOWN AND REQUIRED FOR THE AIR CONDITIONING AND VENTILATION SYSTEMS TO WORK PROPERLY CONNECT THE EQUIPMENT, INCLUDING CONNECTIONS TO SPECIAL SAFETY CONTROL OR APPARATUS NOT SHOWN, SHALL BE INCLUDED.
- I. SUBSTITUTIONS: REQUEST FOR SUBSTITUTIONS, COMPLETE WITH CATALOG DATA, SHALL BE FURNISHED TO THE ARCHITECT. ANY SUBSTITUTION APPROVED SHALL BE INCLUDED IN THE SUBMITTALS. DESIGN IS BASED ON EQUIPMENT AS DESCRIBED IN THE DRAWINGS EQUIPMENT SCHEDULE. ANY CHANGES IN FOUNDATIONS, BASES, CONNECTIONS, PIPING, CONTROLS, ELECTRICAL EQUIPMENT, WIRING AND CONNECTIONS AND OPENING, REQUIRED BY ALTERNATE EQUIPMENT SPECIFIED, SUBMITTED AND APPROVED, SHALL BE MADE AT NO ADDITIONAL COST TO THE OWNER.
- J. EQUIPMENT SUBMITTAL: BEFORE BEGINNING WORK, SUBMIT FOR REVIEW MANUFACTURER-CERTIFIED LITERATURE SHOWING RATINGS AND DIMENSIONS OF EQUIPMENT AND A LIST INDICATING ALL MATERIALS AND ITEMS THAT ARE OF A DIFFERENT MANUFACTURER OR MODEL THAN THOSE SPECIFIED. INCLUDE EQUIPMENT WIRING DIAGRAMS. SUBMITTAL OF EQUIPMENT SHALL BE MADE AT ONE TIME; PIECEMEAL SUBMITTALS WILL NOT BE ACCEPTED.
- K. CONTRACTOR SHALL PERFORM AND PROVIDE A TEST AND BALANCING REPORT TO THE ARCHITECT AND ENGINEER UPON INSTALLATION OF THE AIR CONDITIONING/VENTILATION/KITCHEN VENTILATION EXHAUST AND MAKE-UP SYSTEMS. TEST AND BALANCE SYSTEM IN ACCORDANCE WITH SMACNA MANUAL FOR BALANCING AND ADJUSTMENT OF AIR DISTRIBUTION SYSTEMS. TESTING COMPANY SHALL BE NEBB AND/OR AABC CERTIFIED.
- L. **OPERATION AND MAINTENANCE MANUAL- THREE (3) COPIES OF AN OPERATING MAINTENANCE MANUAL (O&M MANUAL) SHALL BE PROVIDED AND SHALL INCLUDE:**
  - 1) SHOP DRAWINGS AND/OR CATALOG INFORMATION AND CUTS.
  - 2) MANUFACTURER'S SPECIFICATIONS.
  - 3) MANUFACTURERS' PARTS LISTS, WIRING DIAGRAM AND EQUIPMENT DRAWINGS.
  - 4) COMPLETE LUBRICATION, MAINTENANCE AND INSTRUCTIONS INCLUDING INITIAL START-UP INSTRUCTIONS.
  - 5) OTHER TECHNICAL, INSTALLATION AND MAINTENANCE DATA AS APPLICABLE.

**OPERATION AND MAINTENANCE MANUAL SHALL BE SUBMITTED FOR THE FOLLOWING EQUIPMENT:**

- 1) FAN COIL UNITS AND AIR-COOLED CONDENSING UNITS
- 2) AC ROOFTOP UNITS
- 3) EXHAUST AIR FANS

17. **FIRE SPRINKLER:**  
THE FIRE SPRINKLER LAYOUT IS PRELIMINARY ONLY. SPRINKLER LINES AND HEADS MAY BE ADJUSTED TO AVOID BEAMS, COLUMNS, LIGHT FIXTURES, ETC. CONTRACTOR SHALL PREPARE AND SUBMIT DETAILED WORKING DRAWINGS TO THE FIRE DEPARTMENT AND FIRE SPRINKLER SPECIAL INSPECTOR FOR APPROVAL. THREE (3) COPIES OF THE REVIEWED AND APPROVED DRAWINGS SHALL BE SUBMITTED TO THE ARCHITECT.

SYSTEM DESCRIPTION: **AUTOMATIC SPRINKLER SYSTEM**  
COMPLETE NEW WET-PIPE AUTOMATIC FIRE SPRINKLER SYSTEM WITH LOCAL ALARM AND CENTRAL-STATION MONITOR AND ALARM.

CODES & STANDARDS: NFPA 13  
SPRINKLER LINES: SCHEDULE 40 BLACK STEEL

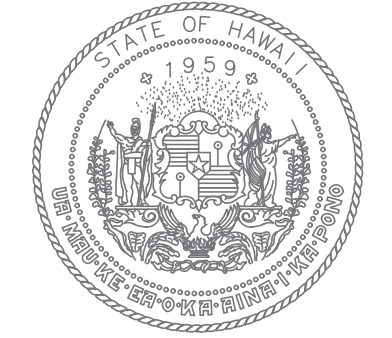
PROVIDE FLOW AND TAMPER SWITCHES ON INDIVIDUAL CONTROL VALVES AT EVERY FLOOR AS PER NFPA 13. INTERLOCK SWITCHES WITH FIRE ALARM CONTROL PANEL. ALL FLOW, TAMPER, AND PRESSURE SWITCHES SHALL BE UL LISTED AND COMPATIBLE WITH THE FIRE ALARM CONTROL PANEL (FACP). CONTRACTOR SHALL PROVIDE A MIN. OF 6 SPARE SPRINKLERS PER SPRINKLER HEAD (INCLUDING WRENCHES, STOPPERS, AND CABINET). ALL WORK SHALL BE COORDINATED WITH THE ELECTRICAL CONTRACTOR.

**EXECUTION**

- INSTALLATION**
- A. FIRE SPRINKLER INSTALLATION SHALL BE IN ACCORDANCE WITH NFPA 13.
  - B. SPARE SPRINKLER HEADS AND CABINET, TO INCLUDE WRENCHES AND STOPPERS, SHALL BE PROVIDED FOR EACH TYPE OF HEAD USED ON THE SYSTEM AS PER NFPA 13.
18. FIRE SAFETY DURING CONSTRUCTION, ALTERATION OR DEMOLITION SHALL CONFORM IN ACCORDANCE WITH 2006 UNIFORM FIRE CODE, ARTICLE 87.
  19. FIRE-PROTECTION SYSTEMS. WHEN THE BUILDING IS PROTECTED BY FIRE-PROTECTION SYSTEMS, SUCH SYSTEMS SHALL BE MAINTAINED OPERATIONAL AT ALL TIMES DURING ALTERNATION. WHEN ALTERNATION REQUIRES MODIFICATION OF A PORTION OF A FIRE-PROTECTION SYSTEM, THE REMAINDER OF THE SYSTEM SHALL BE KEPT IN SERVICE. WHEN IT IS NECESSARY TO SHUT DOWN THE ENTIRE SYSTEM, A FIRE WATCH SHALL BE KEPT ON SITE UNTIL THE SYSTEM IS RETURNED TO SERVICE. 2006 UFC, SECTION 8705.2.
  20. FIRE PROTECTION CONTRACTOR SHALL SUBMIT FIRE SPRINKLER SHOP DRAWINGS TO THE SPECIAL INSPECTOR FOR REVIEW AND APPROVAL AND TO BE LODGES WITH D.P.P. AS PART OF THE PERMIT SET.

**MECHANICAL LEGEND**

CW	COLD WATER	----	EXH	EXHAUST	MIN	MINIMUM	WH	WATER HEATER
HW	HOT WATER	----	EXIST	EXISTING	OA	OUTSIDE AIR	WHA	WATER HAMMER ARRESTER
V	VENT	----	(E)	EXISTING	OAR	OUTSIDE AIR REGISTER		
AC	AIR CONDITIONING	----	FCO	FLOOR CLEANOUT	RA	RETURN AIR		
CD	CEILING DIFFUSER	----	FD	FLOOR DRAIN	RAR	RETURN AIR REGISTER		
CFM	CUBIC FEET PER MINUTE	----	FS	FLOOR SINK	SA	SUPPLY AIR		
EA	EXHAUST AIR	----	GV	GATE VALVE	SAR	SUPPLY AIR REGISTER		
EAR	EXHAUST AIR REGISTER	----	LAV	LAVATORY	VTR	VENT THROUGH ROOF		
EF	EXHAUST FAN	----	MAX	MAXIMUM	WC	WATER CLOSET		



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS

DSGN.	DRWN.	CHKD.	APPD.

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

APRIL 30, 2024  
DATE

**PROJECT TITLE :**

**TERMINAL 2  
TSA CHECKPOINT 3  
INTERIOR QUEUE  
INSTALL NEW AC**  
AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

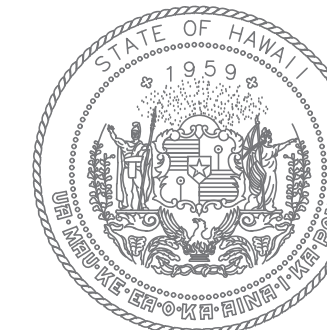
**PROJECT NO.:**

**CO1451-43**

**SHEET TITLE:**

**MECHANICAL  
CONSTRUCTION  
NOTES**

DATE :	DWG. NO.
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STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS

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### CONSTRUCTION DOCUMENTS

APRIL 30, 2024  
DATE

PROJECT TITLE :

**TERMINAL 2  
TSA CHECKPOINT 3  
INTERIOR QUEUE  
INSTALL NEW AC**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1451-43**

SHEET TITLE:

**AIR CONDITIONING AND  
VENTILATION PLAN**

DATE :

APRIL 2024

SHEET :

12 OF 17 SHEETS

DWG. NO.

**M-200**

- CONSTRUCTION NOTES**
- PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL FIELD VERIFY THE EXISTING CEILING SPACE CONDITIONS.
  - THE CONTRACTOR SHALL RELOCATE EXISTING CONDUITS, DRAIN LINES, LIGHTS, PIPING, CEILING SUPPORTS, ETC., AS NECESSARY, FOR THE INSTALLATION OF THE NEW HVAC SYSTEM, INCLUDING CHWS/R AND CD LINES.
  - THE CONSTRUCTION WORK SCHEDULE SHALL BE BASED ON THE PROJECT PHASING AND ALLOWABLE WORK HOURS AS PER THE STATE OF HAWAII, DEPT. OF TRANSPORTATION, AIRPORTS DIVISION.
- FIRE PROTECTION SYSTEM NOTE**
- THE CONTRACTOR SHALL RELOCATE, REPLACE, AND/OR ADD FIRE SPRINKLER HEADS, LINES, AND APPURTENANCES, AS NECESSARY, FOR THE PROPOSED HVAC SYSTEM WORK.
  - FIRE SPRINKLER HEADS, LINES, AND APPURTENANCES, REQUIRED TO BE RELOCATED AND/OR REPLACED DUE TO DAMAGE SHALL BE IN ACCORDANCE WITH NFPA 13.

EXISTING TICKETING LOBBY 5

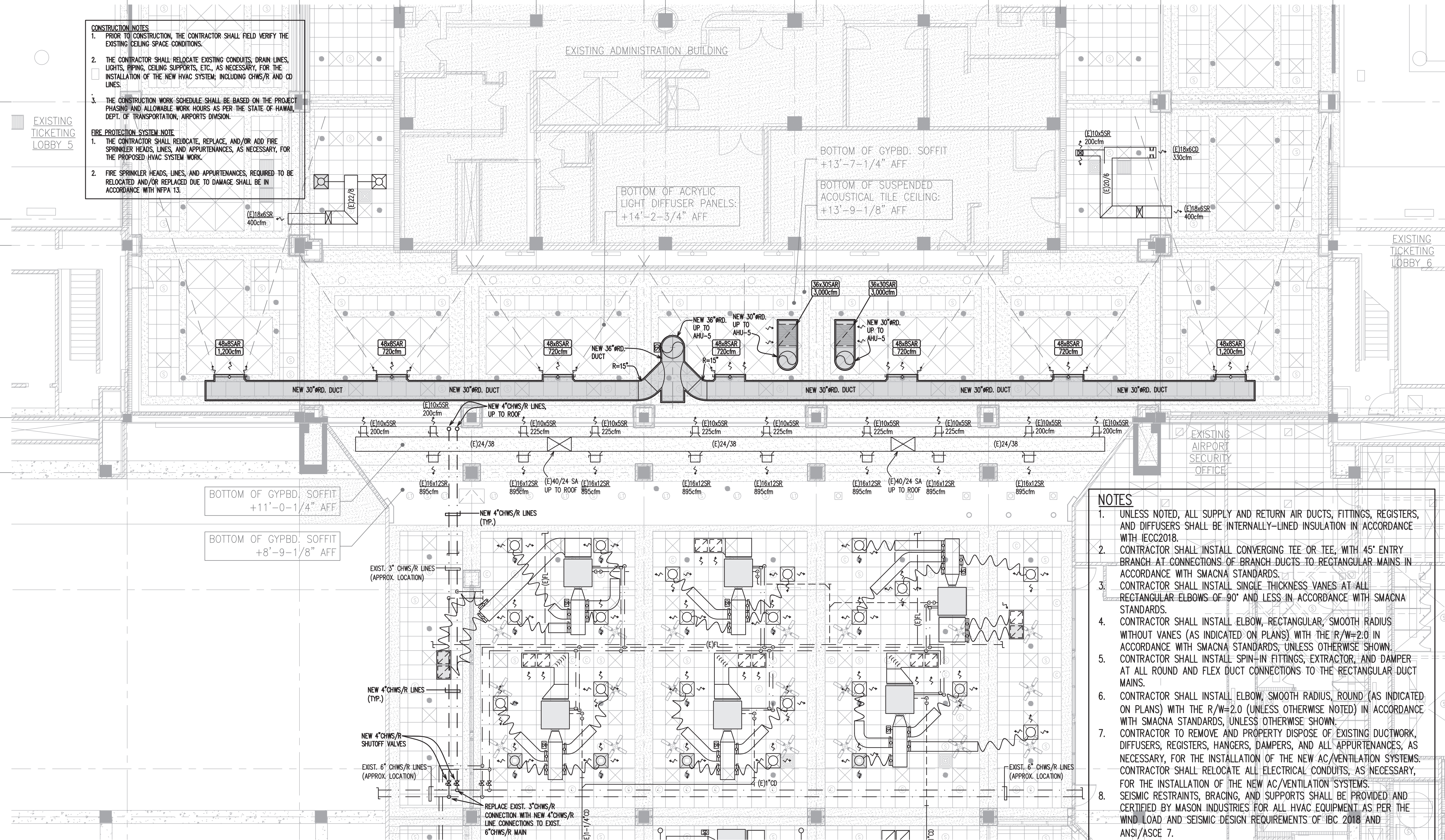
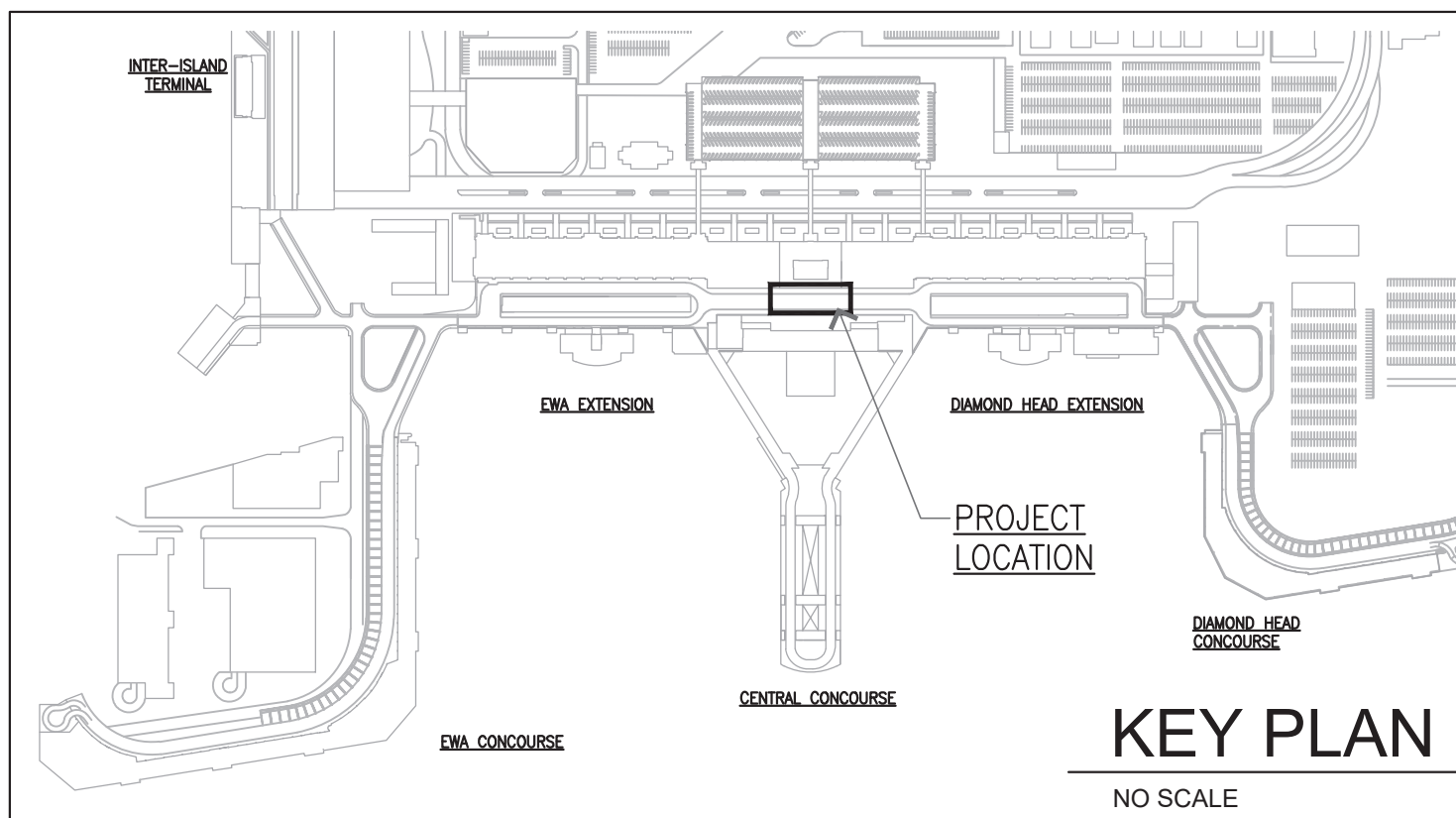
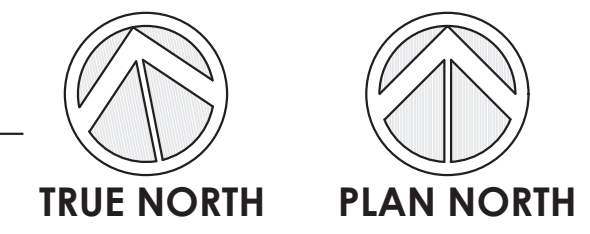
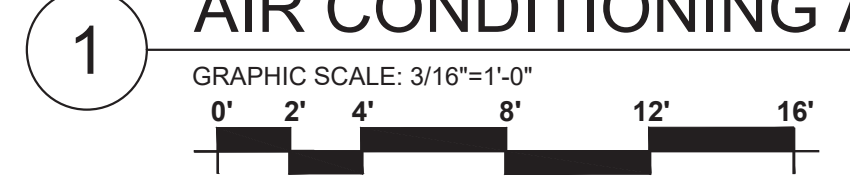
EXISTING ADMINISTRATION BUILDING

EXISTING TICKETING LOBBY 6

EXISTING AIRPORT SECURITY OFFICE

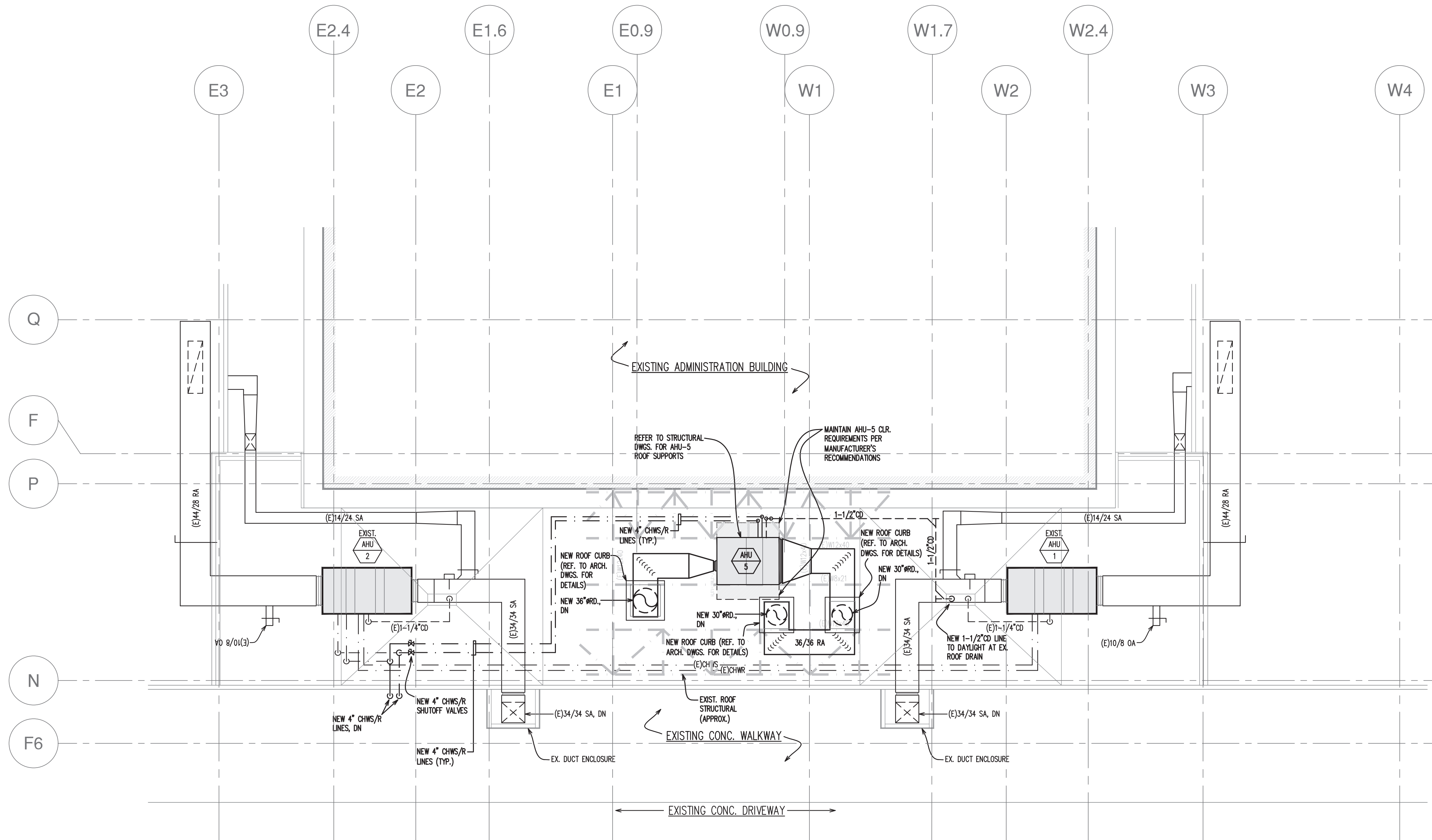
- NOTES**
- UNLESS NOTED, ALL SUPPLY AND RETURN AIR DUCTS, FITTINGS, REGISTERS, AND DIFFUSERS SHALL BE INTERNALLY-LINED INSULATION IN ACCORDANCE WITH IECC2018.
  - CONTRACTOR SHALL INSTALL CONVERGING TEE OR TEE, WITH 45° ENTRY BRANCH AT CONNECTIONS OF BRANCH DUCTS TO RECTANGULAR MAINS IN ACCORDANCE WITH SMACNA STANDARDS.
  - CONTRACTOR SHALL INSTALL SINGLE THICKNESS VANES AT ALL RECTANGULAR ELBOWS OF 90° AND LESS IN ACCORDANCE WITH SMACNA STANDARDS.
  - CONTRACTOR SHALL INSTALL ELBOW, RECTANGULAR, SMOOTH RADIUS WITHOUT VANES (AS INDICATED ON PLANS) WITH THE R/W=2.0 IN ACCORDANCE WITH SMACNA STANDARDS, UNLESS OTHERWISE SHOWN.
  - CONTRACTOR SHALL INSTALL SPIN-IN FITTINGS, EXTRACTOR, AND DAMPER AT ALL ROUND AND FLEX DUCT CONNECTIONS TO THE RECTANGULAR DUCT MAINS.
  - CONTRACTOR SHALL INSTALL ELBOW, SMOOTH RADIUS, ROUND (AS INDICATED ON PLANS) WITH THE R/W=2.0 (UNLESS OTHERWISE NOTED) IN ACCORDANCE WITH SMACNA STANDARDS, UNLESS OTHERWISE SHOWN.
  - CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF EXISTING DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, DAMPERS, AND ALL APPURTENANCES, AS NECESSARY, FOR THE INSTALLATION OF THE NEW AC/VENTILATION SYSTEMS. CONTRACTOR SHALL RELOCATE ALL ELECTRICAL CONDUITS, AS NECESSARY, FOR THE INSTALLATION OF THE NEW AC/VENTILATION SYSTEMS.
  - SEISMIC RESTRAINTS, BRACING, AND SUPPORTS SHALL BE PROVIDED AND CERTIFIED BY MASON INDUSTRIES FOR ALL HVAC EQUIPMENT AS PER THE WIND LOAD AND SEISMIC DESIGN REQUIREMENTS OF IBC 2018 AND ANS/ASCE 7.

### TSA CHECKPOINT 3 INTERIOR QUEUE AIR CONDITIONING AND VENTILATION PLAN



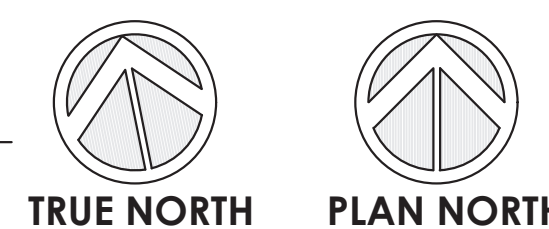
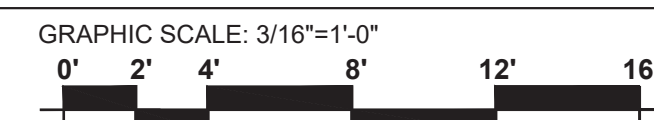


STATE OF HAWAII  
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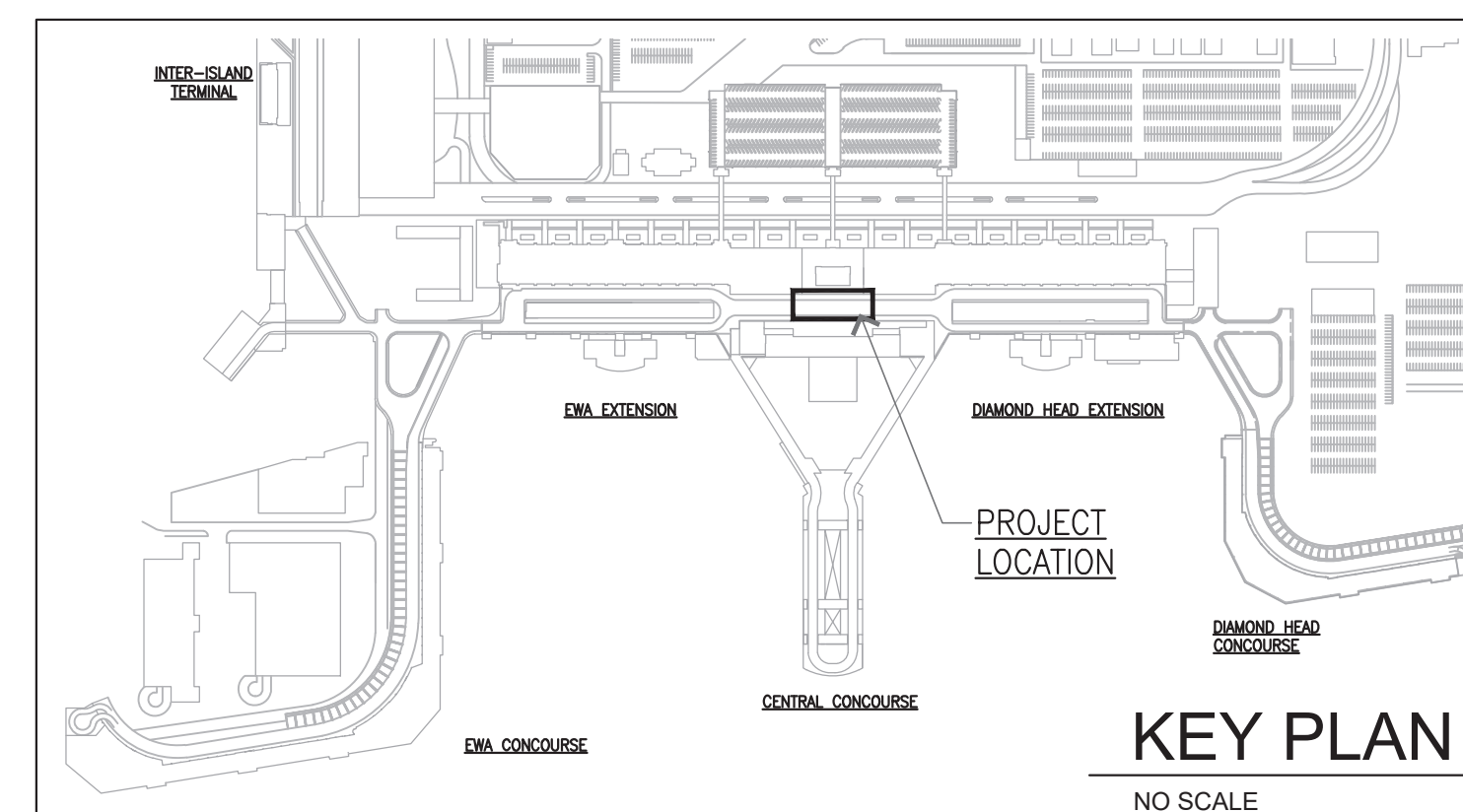
**TSA CHECKPOINT 3 INTERIOR QUEUE  
MECHANICAL ROOF PLAN**

1



**NOTES**

- UNLESS NOTED, ALL SUPPLY AND RETURN AIR DUCTS, FITTINGS, REGISTERS, AND DIFFUSERS SHALL BE INSULATED VIA INTERNALLY-LINED AP ARMAFLEX INSULATION WITH R-VALUE IN ACCORDANCE WITH IECC2018.
- CONTRACTOR SHALL INSTALL CONVERGING TEE OR TEE, WITH 45° ENTRY BRANCH AT CONNECTIONS OF BRANCH DUCTS TO RECTANGULAR MAINS IN ACCORDANCE WITH SMACNA STANDARDS.
- CONTRACTOR SHALL INSTALL SINGLE THICKNESS VANES AT ALL RECTANGULAR ELBOWS OF 90° AND LESS IN ACCORDANCE WITH SMACNA STANDARDS.
- CONTRACTOR SHALL INSTALL ELBOW, RECTANGULAR, SMOOTH RADIUS WITHOUT VANES (AS INDICATED ON PLANS) WITH THE R/W=2.0 IN ACCORDANCE WITH SMACNA STANDARDS, UNLESS OTHERWISE SHOWN.
- CONTRACTOR SHALL INSTALL SPIN-IN FITTINGS, EXTRACTOR, AND DAMPER AT ALL ROUND AND FLEX DUCT CONNECTIONS TO THE RECTANGULAR DUCT MAINS.
- CONTRACTOR SHALL INSTALL ELBOW, SMOOTH RADIUS, ROUND (AS INDICATED ON PLANS) WITH THE R/W=2.0 (UNLESS OTHERWISE NOTED) IN ACCORDANCE WITH SMACNA STANDARDS, UNLESS OTHERWISE SHOWN.
- CONTRACTOR TO REMOVE AND PROPERLY DISPOSE OF EXISTING DUCTWORK, DIFFUSERS, REGISTERS, HANGERS, DAMPERS, AND ALL APPURTENANCES, AS NECESSARY, FOR THE INSTALLATION OF THE NEW AC/VENTILATION SYSTEMS. CONTRACTOR SHALL RELOCATE ALL ELECTRICAL CONDUITS, AS NECESSARY, FOR THE INSTALLATION OF THE NEW AC/VENTILATION SYSTEMS.
- SEISMIC RESTRAINTS, BRACING, AND SUPPORTS SHALL BE PROVIDED AND CERTIFIED BY MASON INDUSTRIES FOR ALL HVAC EQUIPMENT AS PER THE WIND LOAD AND SEISMIC DESIGN REQUIREMENTS OF IBC 2018 AND ANSI/ASCE 7.
- CONTRACTOR SHALL PROVIDE DUCT HOODS AND FLASHING FOR ALL EXTERIOR DUCTWORK.



DSGN.	DRWN.	CHKD.	APPD.

NO.	DATE	REVISIONS

**CONSTRUCTION DOCUMENTS**

APRIL 30, 2024  
DATE

PROJECT TITLE :

**TERMINAL 2  
TSA CHECKPOINT 3  
INTERIOR QUEUE  
INSTALL NEW AC**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1451-43**

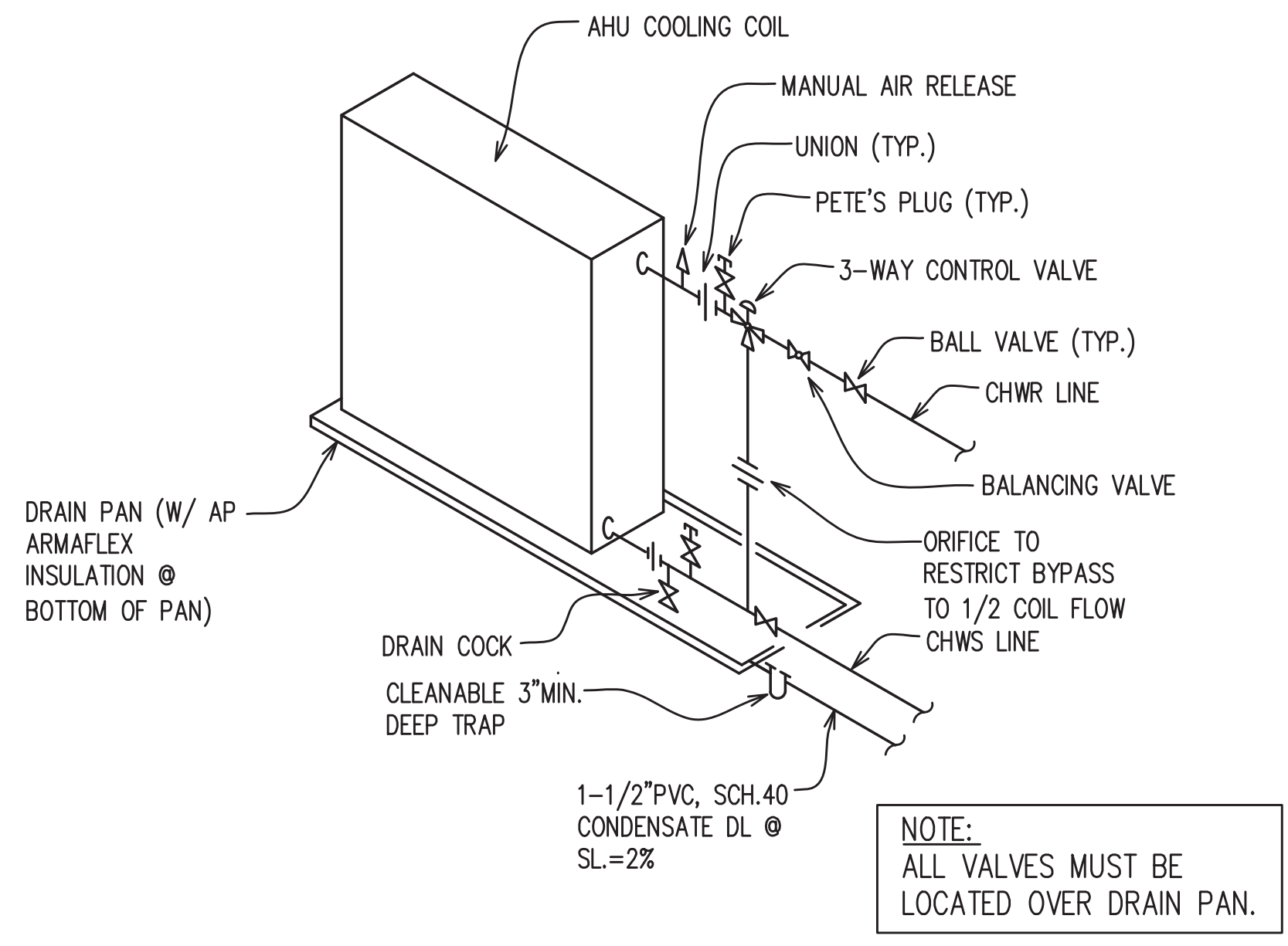
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**MECHANICAL ROOF PLAN**

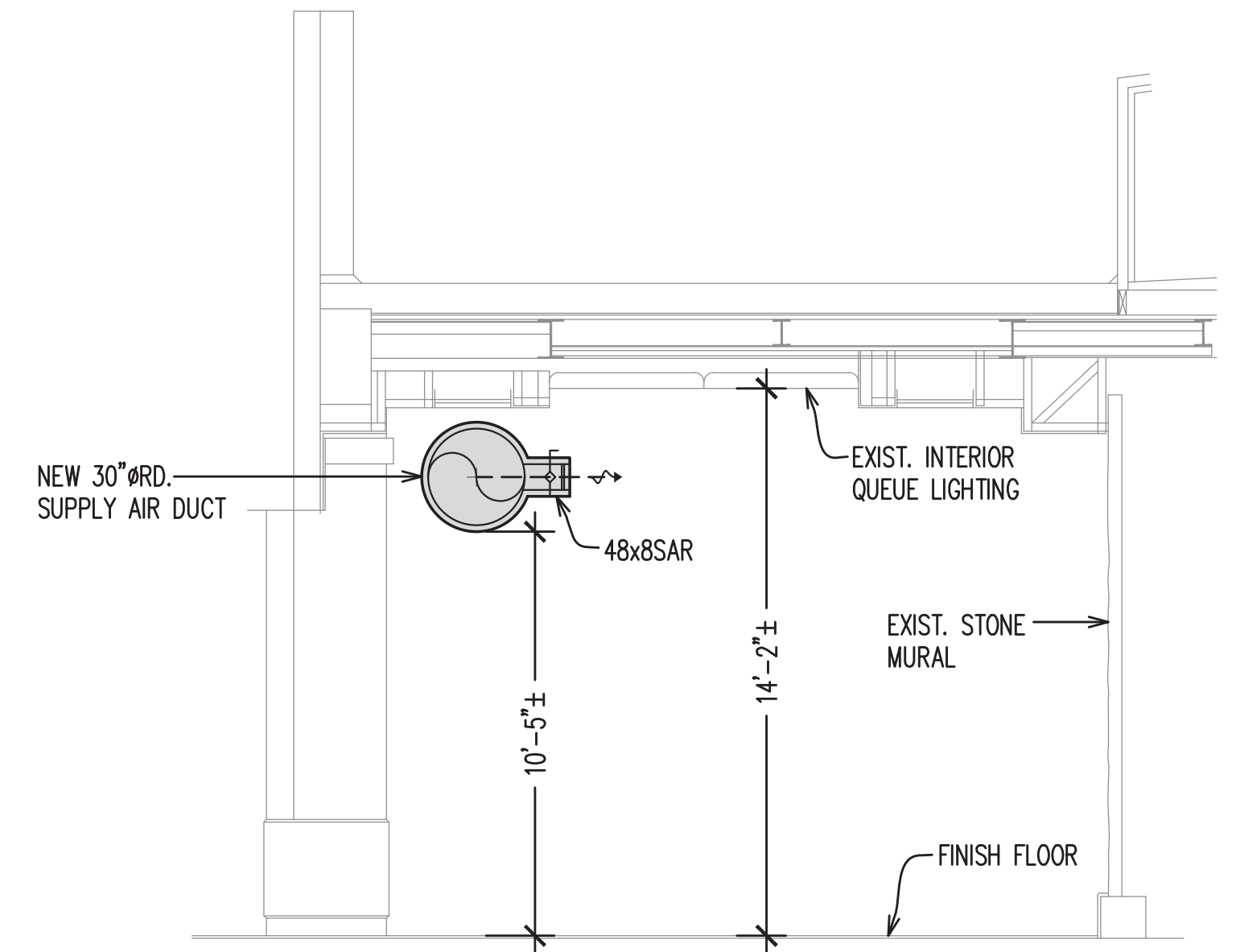
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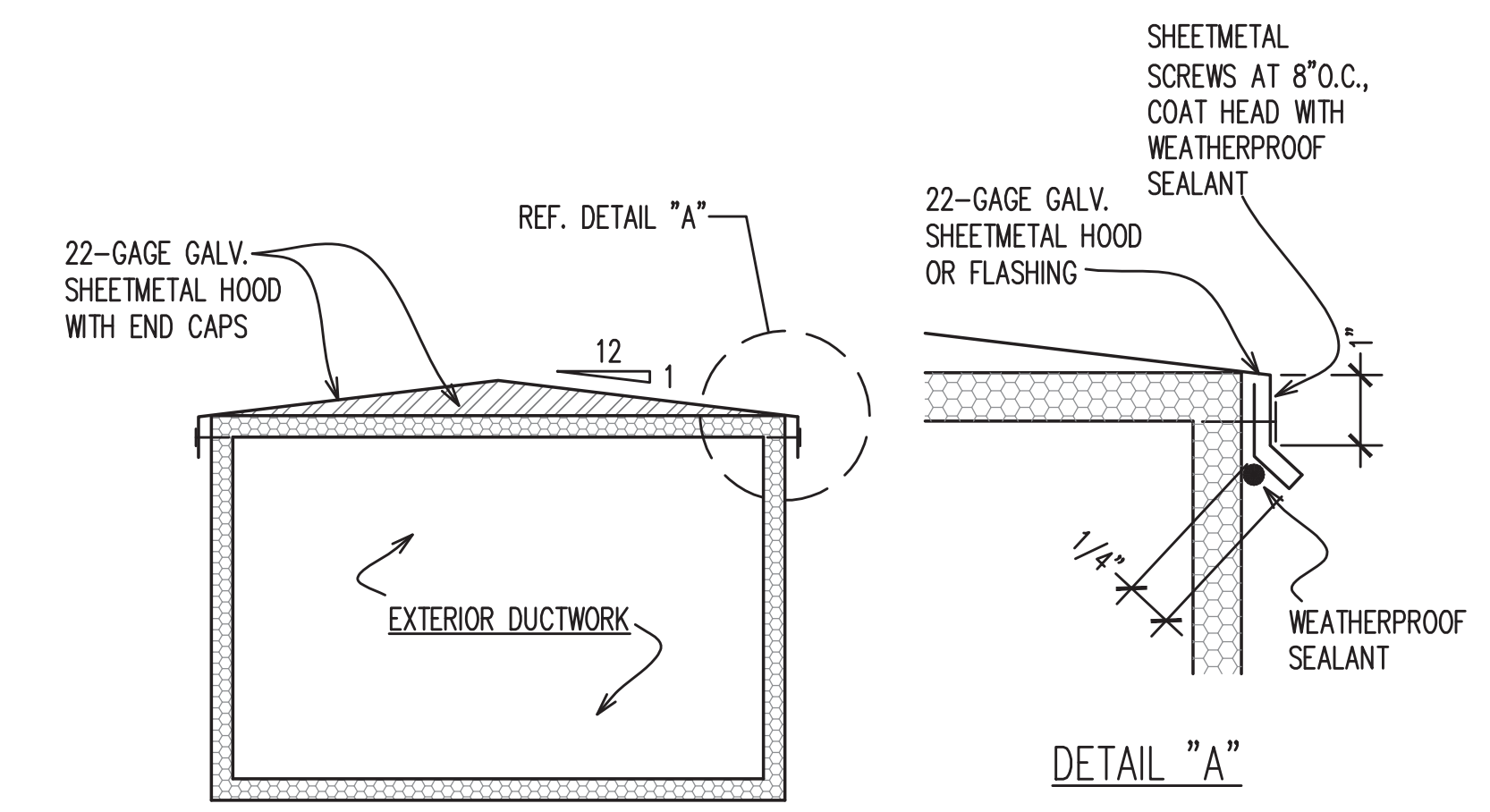
STATE OF HAWAII  
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AIRPORTS



1 AHU CHILLED-WATER PIPING DETAIL  
M-300 SCALE: NONE



2 INTERIOR QUEUE DUCTWORK SECTION  
M-300 SCALE: NONE



3 TYP. DUCT HOOD AND FLASHING DETAIL  
M-300 SCALE: NONE

DSGN.	DRWN.	CHKD.	APPD.

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**  
APRIL 30, 2024  
DATE

PROJECT TITLE :  
**TERMINAL 2  
TSA CHECKPOINT 3  
INTERIOR QUEUE  
INSTALL NEW AC**  
AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:  
**CO1451-43**

SHEET TITLE:  
**MECHANICAL  
DETAILS**

DATE :	DWG. NO.
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# AIR CONDITIONING UNIT EQUIPMENT SCHEDULE

UNIT NO.	MAKE AND MODEL	COOLING CAPACITY (BTUH)			EVAPORATOR AIR VOLUME		SUPPLY BLOWER MOTOR			COIL DATA					ELECTRICAL DATA			REMARKS
		SENSIBLE	TOTAL	TON(S)	CFM	E.S.P. (IN)	MOTOR HP	FAN RPM	MOTOR FLA	COIL ROWS	FLUID FLOW RATE (GPM)	FLUID PRESS. DROP (FT.WG.)	ENT. TEMP. (°F)	LV. TEMP. (°F)	VOLTAGE/PH/HZ	UNIT MCA	UNIT MFS	
AHU 5	CARRIER MODEL 39MW SIZE 12W	130,280*	186,170*	15	6,000	1.5	7.5	1,516	9.5	6 (11-FPI FULL CIRCUIT)	37.1	3.3	45	55	460V/3PH/60HZ	---	---	PROVIDE FCU UNIT CONTROLLER, THERMOSTAT, REMOTE THERMOSTAT SENSOR ON RETURN, CONDENSATE DRAIN PUMP, R-13 DOUBLE WALL SEALED PANEL W/ PAINTED EXTERIOR PANELS, INTERIOR FINISH: GALV. PRE-PAINTED WITH AGION ANTIMICROBIAL, LEVEL II THERMAL BREAK, STAINLESS STEEL SECONDARY DRAIN PAN, MERV 8 FILTERS, AND DDCS SYSTEM (IN-PLACE COMPLETE). PROVIDE SEISMIC SPRING ISOLATOR SUPPORTS, ANCHORS, ETC. IN ACCORDANCE WITH IBC 2018 AND ASCE 7. PROVIDE ALL CONTROL WIRING, CONDUIT, UNIT CONTROLLER, THERMOSTAT, PANELS, VALVES, FITTINGS, ETC. NECESSARY FOR THE COMPLETE OPERATION OF THE NEW FCU AND ALL COMPONENTS (IE SMOKE-DUCT DETECTOR, DDCS ANALOG AND BINARY INPUTS, THERMOSTAT SENSOR, ETC.). PROVIDE PSX700 COATING FOR EXTERIOR PANELS AND CASING.

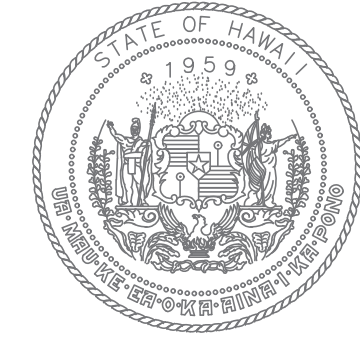
\*BASED ON ENTERING AIR DRY BULB TEMP.=74.5°F / ENTERING AIR WET BULB TEMP.=64.7°F.

\*\*DDCS NOTES

1. THE DDCS SHALL BE STANDALONE TYPE. THE FOLLOWING DDCS FUNCTIONS SHALL BE FULLY FUNCTIONAL AND CONNECTED TO ALL MECHANICAL EQUIPMENT. PROVIDE SENSORS, THERMOSTATS, TRANSDUCERS, AND OTHER CONTROL DEVICES AS REQUIRED OR AS DIRECTED BY STATE DOT REPRESENTATIVE AND CONNECT TO DDCS VIA RIC:
  - A. ENERGY MANAGEMENT
  - B. LOAD MANAGEMENT
  - C. WEEKLY SCHEDULING
  - D. HVAC MANAGEMENT
  - E. SUPPLY AIR RESET
2. DDCS COMPONENTS UNDER THIS CONTRACT SHALL BE COMPATIBLE WITH EXIST. DOT DDCS.
3. 120V POWER AND CONTROL POWER REQUIRED FOR ALL DDCS EQUIPMENT, CONTROL PANELS, CONTROLLERS, ACTUATORS AND DEVICES, ETC. IS THE DDCS SUBCONTRACTOR'S RESPONSIBILITY. COORDINATE WITH ELECTRICAL SUBCONTRACTORS.
4. NOT ALL CONTROL AND MONITOR POINTS ARE SHOWN ON DDCS POINTS SCHEDULE BELOW. INCORPORATE IN DDCS OTHER MONITORING AND CONTROL POINT THAT MAY BE SHOWN ELSEWHERE.

DDCS POINT SCHEDULE:

- A. BINARY INPUTS
  - (1) STATUS
  - (2) SMOKE DETECTOR
  - (3) ALARM
- B. ANALOG INPUTS
  - (1) INDIVIDUAL TIME SCHEDULE
  - (2) CHWS TEMPERATURE
  - (3) CHWR TEMPERATURE
  - (4) ROOM TEMPERATURE
  - (5) SA TEMPERATURE
  - (6) RA TEMPERATURE
  - (7) CHW VALVE INPUT



STATE OF HAWAII  
DEPARTMENT OF TRANSPORTATION  
AIRPORTS

DSGN.	DRWN.	CHKD.	APPD.

NO.	DATE	REVISIONS

**CONSTRUCTION DOCUMENTS**  
APRIL 30, 2024  
DATE

**PROJECT TITLE :**  
**TERMINAL 2  
TSA CHECKPOINT 3  
INTERIOR QUEUE  
INSTALL NEW AC**  
AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

**PROJECT NO.:**  
**CO1451-43**

**SHEET TITLE:**  
**MECHANICAL  
EQUIPMENT  
SCHEDULES**

DATE :	DWG. NO.
APRIL 2024	<b>M-400</b>
SHEET :	
<b>15 OF 17 SHEETS</b>	

# GENERAL NOTES

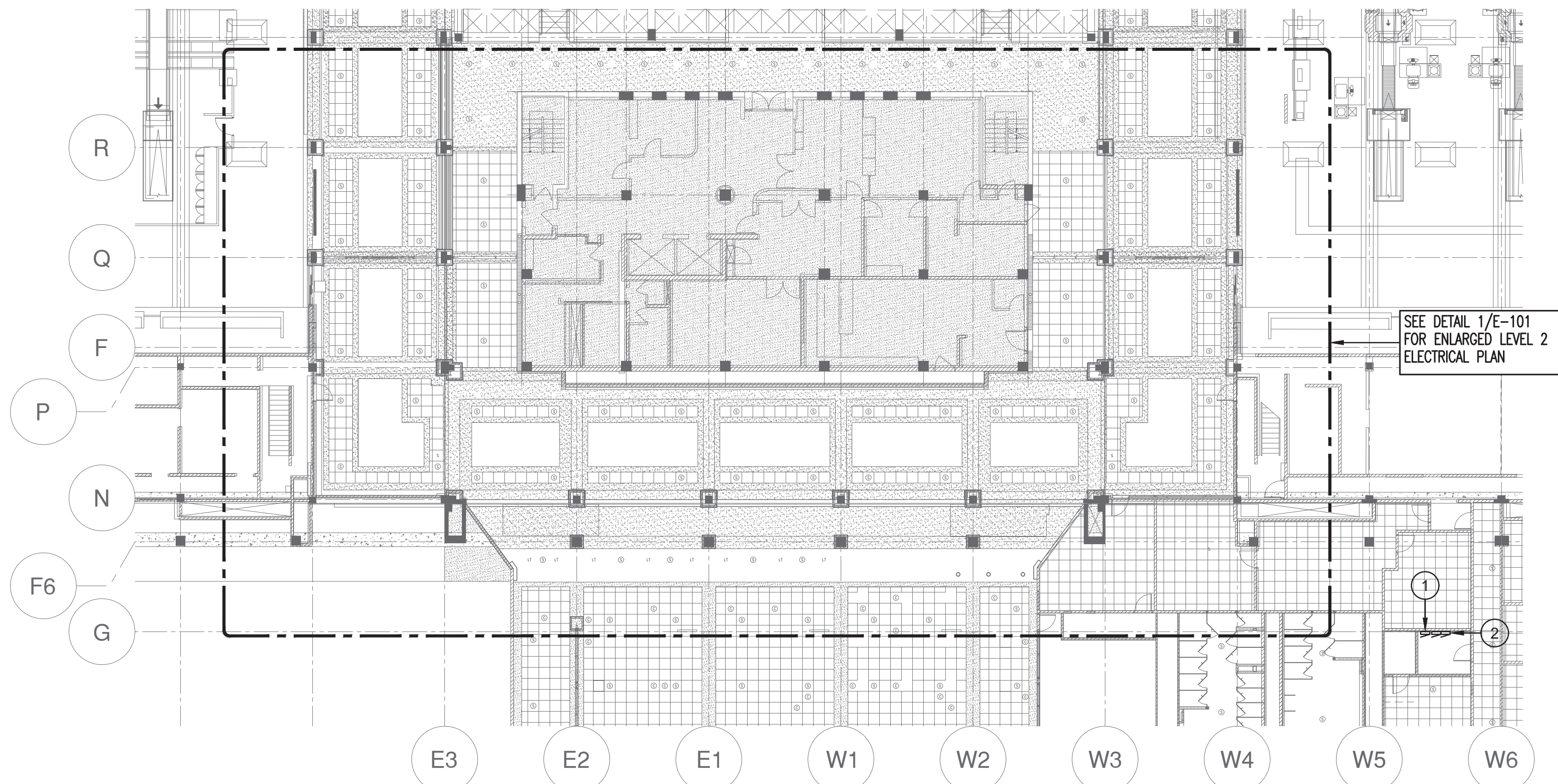
1. CONTRACTOR SHALL PHASE ALL WORK AS PER GENERAL CONTRACTOR.
2. CONTRACTOR SHALL REVIEW ARCHITECTURAL, MECHANICAL AND ALL OTHER DISCIPLINE'S DRAWINGS FOR COORDINATION WORK. CONTRACTOR SHALL PROVIDE ADDITIONAL EQUIPMENT AND WIRING AS REQUIRED TO PROVIDE COMPLETE, OPERABLE SYSTEMS.
3. CONTRACTOR SHALL FIELD VERIFY EXISTING AND NEW CONDITIONS PRIOR TO START OF ALL WORK AND ADJUST INSTALLATION OF ALL ELECTRICAL EQUIPMENT AND WIRING AS REQUIRED.
4. CONTRACTOR SHALL COORDINATE EXACT LOCATION AND REQUIREMENTS OF ALL EQUIPMENT AND OUTLETS WITH OWNER, ARCHITECT AND MECHANICAL CONTRACTOR PRIOR TO ROUGH-IN.
5. CONTRACTOR SHALL BREAK AND PATCH CEILINGS, WALLS AND FLOORS AS REQUIRED TO INSTALL ALL CONDUIT, OUTLET BOXES, EQUIPMENT AND LIGHTING.
6. CONTRACTOR SHALL PROVIDE ALL STEM MOUNTING AND UNISTRUT SUPPORTS AS REQUIRED TO INSTALL ALL LIGHTING, PANELBOARDS, EQUIPMENT, CONDUIT AND WIRING AS REQUIRED.
7. ALL PENETRATIONS THROUGH FIRE RATED WALLS, FLOORS AND CEILINGS SHALL BE FIREPROOF SEALED.
8. ALL CONDUITS TO BE CONCEALED AND ALL OUTLET BOXES AND EQUIPMENT BOXES ARE TO BE MOUNTED FLUSH UNLESS OTHERWISE NOTED.
9. ALL OUTLETS AND EQUIPMENT SHALL BE LABELED WITH PANELBOARD AND CIRCUIT NUMBER DESIGNATION.
10. PENETRATIONS OF ALL EXTERIOR WALLS OR CEILINGS SHALL BE WATERPROOF AND WATERTIGHT.

# ELECTRICAL SYMBOLS

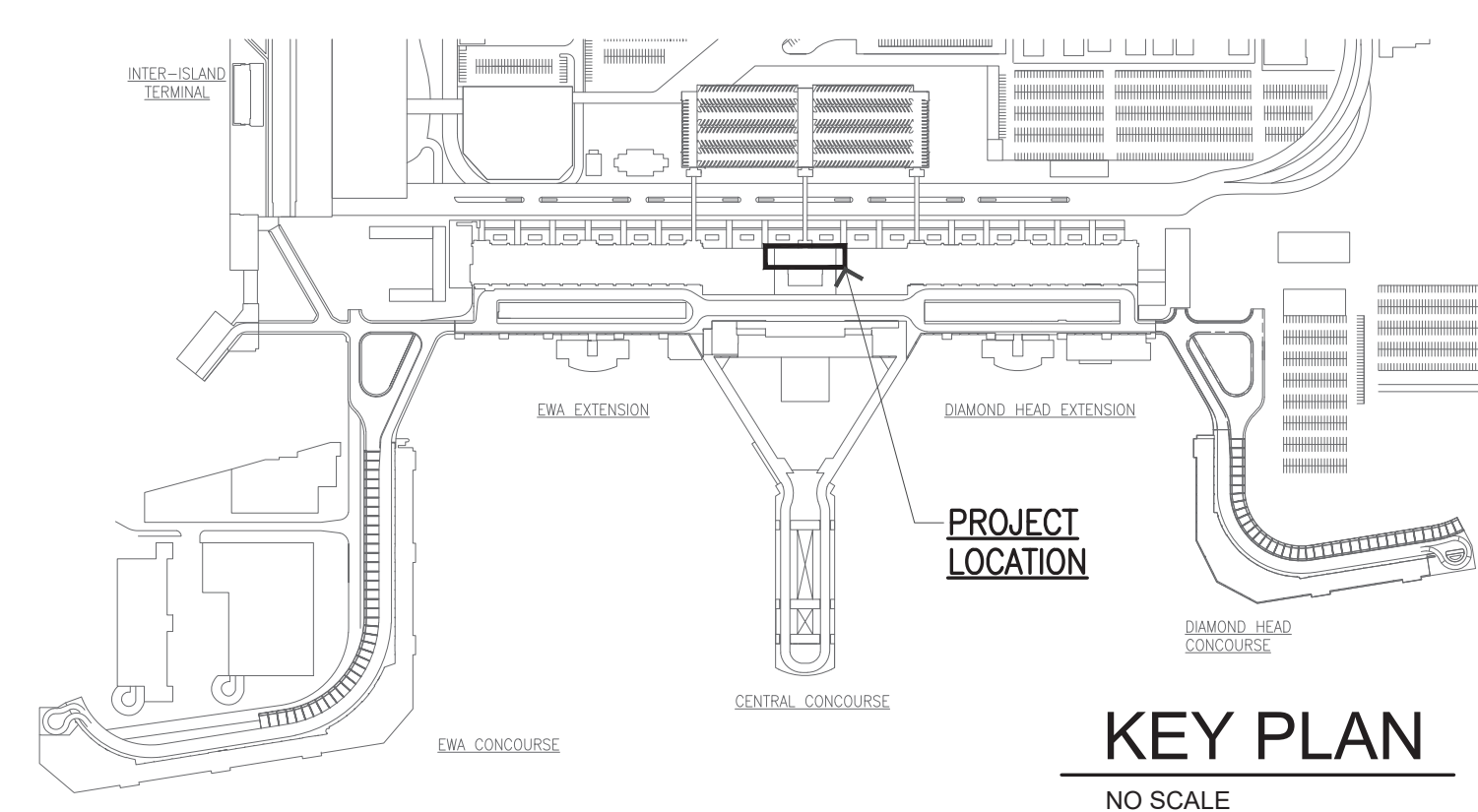
- EXISTING CEILING LUMINAIRE TO BE REMOVED
- EXISTING CEILING LUMINAIRE TO BE RELOCATED
- RELOCATED CEILING LUMINAIRE
- EXISTING PANELBOARD
- EXISTING DUPLEX CONVENIENCE GFI OUTLET
- 
- DUCT SMOKE DETECTOR
- MOTOR OUTLET
- MOTOR CONTROLLER
- SAFETY SWITCH
- WEATHERPROOF

- WIRING IN EXPOSED RACEWAY
- WIRING IN RACEWAY CONCEALED IN WALL OR CEILING

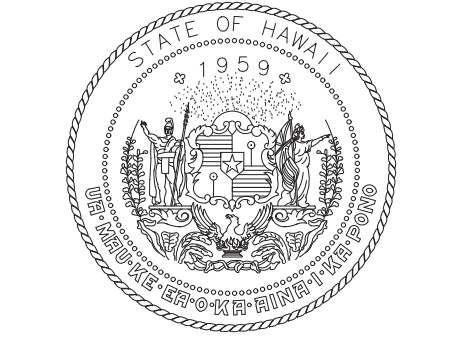
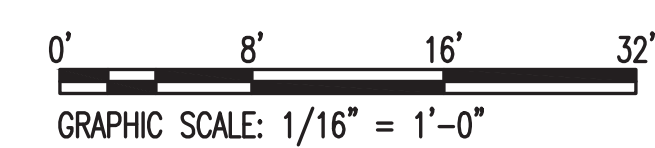
- NOTES:**
1. ANY CIRCUIT WITH NO FURTHER DESIGNATION INDICATES A TWO WIRE CIRCUIT. CIRCUITS WITH ADDITIONAL WIRES ARE INDICATED AS FOLLOWS: 3 WIRES: 4 WIRES, ETC.
  2. GROUND WIRE PER NATIONAL ELECTRICAL CODE INDICATED AS FOLLOWS: .
  3. ALL EXPOSED CONDUIT AND BOXES SHALL BE PAINTED TO MATCH ADJACENT WALL OR CEILING SURROUNDING.



- KEYED NOTES:**
- 1 EXIST PANEL "WLE1", 208Y/120V, 3Ø, 4W. UTILIZE SPARE 1P20A CIRCUIT BREAKER IN SPACE NO. 15 FOR NEW DUCT SMOKE DETECTOR. REPLACE PANEL CIRCUIT DIRECTORY WITH UPDATED TYPED CIRCUIT DIRECTORY.
  - 2 EXIST PANEL "WL8", 480Y/277V, 3Ø, 4W. PROVIDE NEW 1-3P20A CIRCUIT BREAKER IN SPACES 13,15,17 FOR NEW AHU. REPLACE PANEL CIRCUIT DIRECTORY WITH UPDATED TYPED CIRCUIT DIRECTORY.



**1 OVERALL LEVEL 2 ELECTRICAL PLAN**  
SCALE: 1/16" = 1'-0"



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AC	AC	CP	CP

## KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**  
APRIL 30, 2024  
DATE

**PROJECT TITLE :**  
**TERMINAL 2  
TSA CHECKPOINT 3  
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DANIEL K. INOUE INTERNATIONAL AIRPORT  
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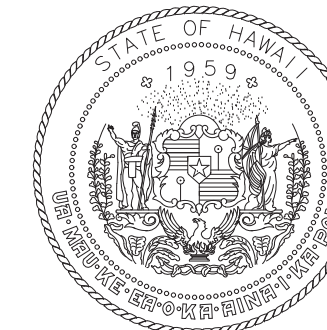
**PROJECT NO.:**  
**CO1451-43**

**SHEET TITLE:**  
**ELECTRICAL SYMBOLS,  
NOTES, OVERALL LEVEL 2  
ELECTRICAL PLAN**

DATE :	APRIL 2024	DWG. NO.	<b>E-001</b>
SHEET :	16 OF 17 SHEETS		

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STATE OF HAWAII  
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KEY PLAN / NOTES:

NO.	DATE	REVISIONS
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**CONSTRUCTION DOCUMENTS**

APRIL 30, 2024  
DATE

PROJECT TITLE :

**TERMINAL 2  
TSA CHECKPOINT 3  
INTERIOR QUEUE  
INSTALL NEW AC**

AT  
DANIEL K. INOUE INTERNATIONAL AIRPORT  
HONOLULU, OAHU, HAWAII

PROJECT NO.:

**CO1451-43**

SHEET TITLE:

ENLARGED LEVEL 2  
ELECTRICAL PLAN

DATE :

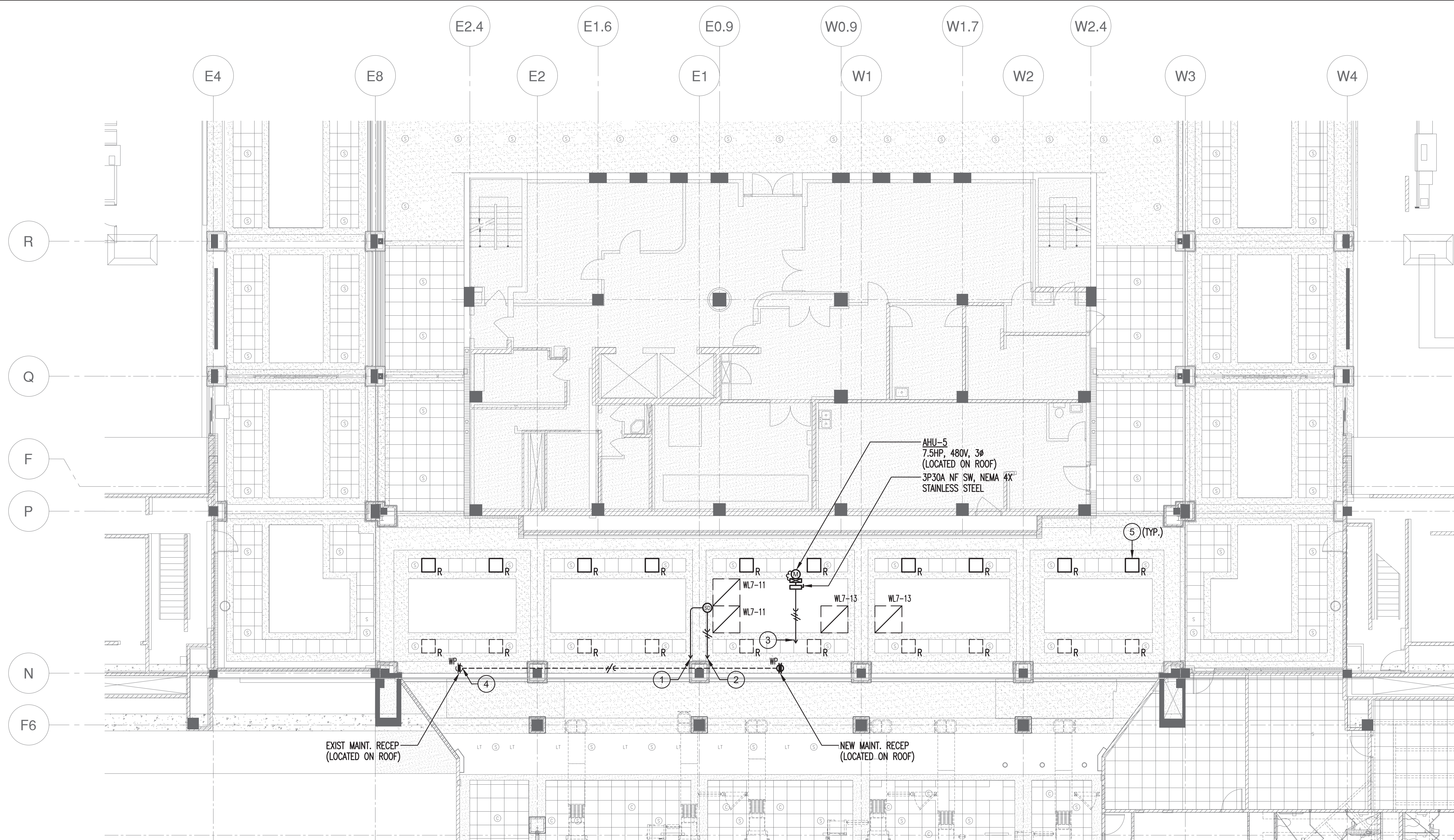
APRIL 2024

SHEET :

17 OF 17 SHEETS

DWG. NO.

**E-101**



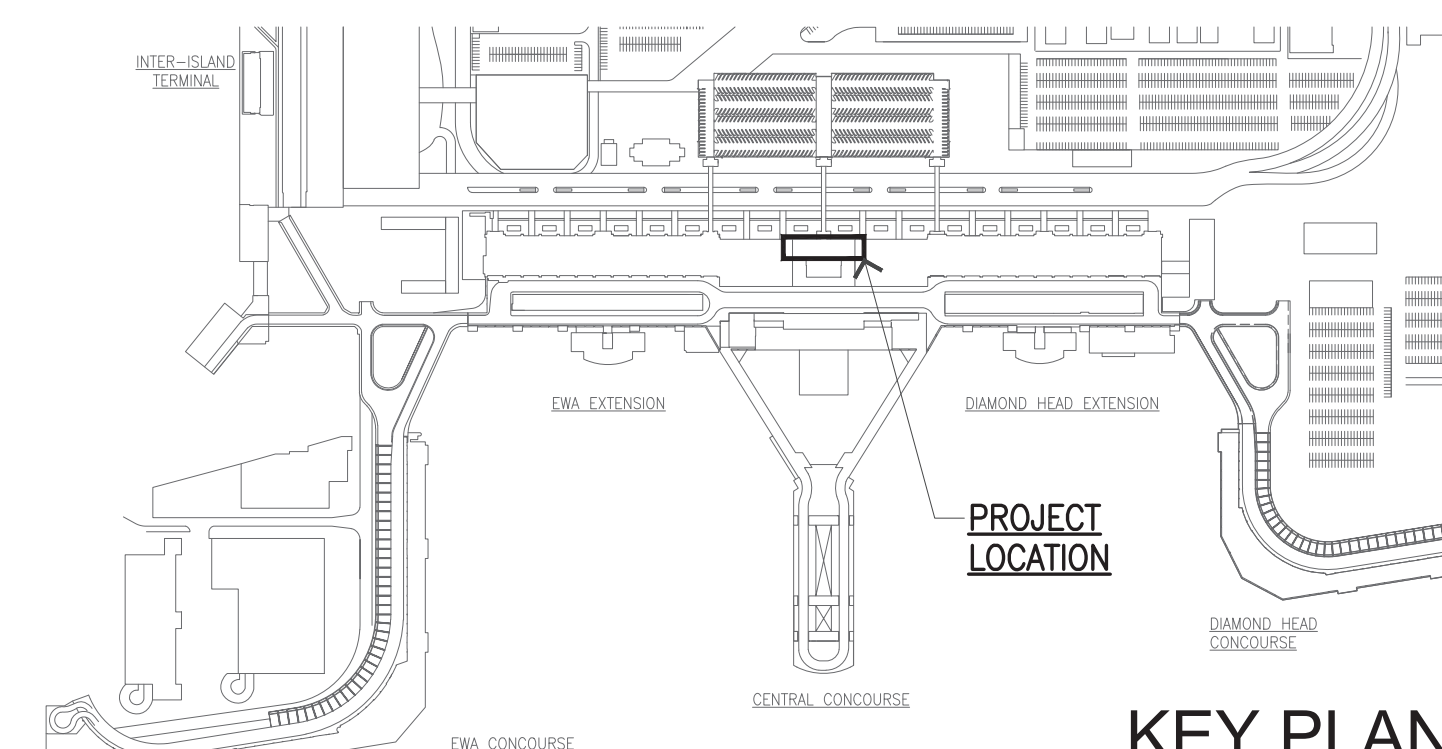
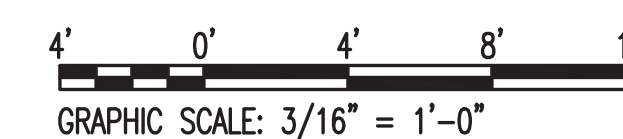
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**ENLARGED LEVEL 2 ELECTRICAL PLAN**

SCALE: 3/16"=1'-0"

KEYED NOTES:

- 1 NEW 3/4" C WITH FIRE ALARM WIRING AS REQUIRED TO EXISTING FIRE ALARM SYSTEM. COORDINATE EXACT REQUIREMENTS AND WORK WITH AIRPORT FIRE ALARM VENDOR.
- 2 TO SPARE 1P20A CIRCUIT BREAKER IN EXIST PANEL "WLE1". WIRE WITH NEW 3/4" C, 3#12, 1#12 GND.
- 3 TO NEW 3P20A CIRCUIT BREAKER IN EXIST PANEL "WL8". WIRE WITH NEW 3/4" C, 3#12, 1#12 GND.
- 4 CONNECT NEW RECEPT TO EXIST RECEPT CIRCUIT. WIRE WITH NEW 3/4" C, 2#12, 1#12 GND.
- 5 EXISTING LIGHT FIXTURE RELOCATED TO ACCOMMODATE NEW MECHANICAL WORK. RECONNECT TO EXISTING LIGHTING CIRCUIT AND CONTROLS (VERIFY IN FIELD) WITH NEW JUNCTION BOXES, CONDUIT AND WIRING AS REQUIRED.



**KEY PLAN**

NO SCALE

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