SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY

REGULAR MEETING AGENDA

WEDNESDAY, FEBRUARY 22, 2023

3:00 P.M. (Closed Session (if any), immediately followed by Open Session)

MAIN AUDITORIUM – Norton Regional Event Center – 1601 East Third Street, San Bernardino, CA

A regional joint powers authority dedicated to the reuse of Norton Air Force Base for the economic benefit of the East Valley

Frank J. Navarro, President
Mayor, City of Colton
Rhodes Rigsby, Vice President
Councilmember, City of Loma Linda
Penny Lilburn, Secretary
Mayor Pro Tem, City of Highland

COMMISSION MEMBERS:
Dawn Rowe
Supervisor, County of San Bernardino
Helen Tran
Mayor, City of San Bernardino
Theodore Sanchez
Councilmember, City of San Bernardino

ALTERNATE COMMISSION MEMBERS:
Phillip Dupper
Mayor, City of Loma Linda
Joe Baca, Jr.
Supervisor, County of San Bernardino
Larry McCallon
Mayor, City of Highland
Fred Shorett
Mayor Pro Tem, City of San Bernardino
John Echevarria
Councilmember, City of Colton

- *Full agenda packets are available at the SBIAA office, 1601 East Third Street, San Bernardino, California, will be provided at the meeting, and are posted in the Public Meetings/Agenda section of our website at www.sbiaa.org. Office hours are 7:30 a.m. to 5:30 p.m., Monday through Thursday, 8:00 a.m. to 5:00 p.m., Friday.*
- *Recordings of the SBIAA Commission meetings are available in the Public Meetings/Agenda section of our website at www.sbiaa.org.*
- *In compliance with the Americans with Disabilities Act, if you need special assistance to participate in this meeting, please contact the SBIAA office at (909) 382-4100. Notification 48 hours prior to the meeting will enable SBIAA staff to make reasonable arrangements to ensure accessibility to this meeting.*
- *Anyone who wishes to speak during public comment or on a particular item will be requested to fill out a speaker slip. Prior to speaking, speaker slips should be turned in to the Clerk of the Board.*
- *Public comments for agenda items that are not public hearings will be limited to three minutes.*
- *Public comments for items that are not on the agenda will be limited to three minutes.*
- *The three-minute limitation shall apply to each member of the public and cannot be shared.*
- *An additional three minutes will be allotted to those who require translation services.*

ORDER OF BUSINESS – CLOSED SESSION

This meeting of the governing Commission of the San Bernardino International Airport Authority will begin with Closed Session Public Comment and Closed Session, immediately followed by the Open Session portion of the meeting.

- **CALL TO ORDER**
- **CLOSED SESSION PUBLIC COMMENT**
- **LEGAL COUNSEL RECITES CLOSED SESSION ITEMS**
- **RECESS TO CLOSED SESSION**

A. CALL TO ORDER / ROLL CALL

B. CLOSED SESSION PUBLIC COMMENT

The Closed Session Public Comment portion of the San Bernardino International Airport Authority Commission meeting is limited to a maximum of three minutes for each speaker and comments will be limited to matters appearing on the Closed Session portion of the agenda. An additional three minutes will be allotted to those who require translation services. Additional opportunities for further Public Comment will be given during and at the end of the meeting.

C. CLOSED SESSION

An announcement is typically made prior to closed session discussions as to the potential for a reportable action at the conclusion of closed session.

D. REPORT ON CLOSED SESSION

Public announcement(s) will be made following closed session if there are any reportable actions taken during closed session.

ORDER OF BUSINESS – OPEN SESSION

- **CALL TO ORDER OPEN SESSION**
- **PLEDGE OF ALLEGIANCE**

E. ITEMS TO BE ADDED OR DELETED

Pursuant to Government Code Section 54954.2, items may be added on which there is a need to take immediate action, and the need for action came to the attention of the San Bernardino International Airport Authority subsequent to the posting of the agenda.

F. CONFLICT OF INTEREST DISCLOSURE

1. Members shall note agenda item contractors and subcontractors which may require member abstentions due to possible conflicts of interest.

   [PRESENTER: Jennifer Farris**; PAGE#:** 007**]**

G. INFORMATIONAL ITEMS

It is intended that the following subject matters and their attachments are submitted to the Commission members for informational purposes only. No action is required with regard to these items in the form of a receive-and-file motion or otherwise. Members may inquire of staff as to any questions or seek clarifications, but no discussion may ensue other than to place an item on a subsequent agenda for further consideration. In such situations where permissible levels of discussion are conducted, members are reminded that staff has not presented the related contractor and interested parties conflicts of interest disclosures that are typically provided for agenda items for which action is intended to occur. Additionally, questions may arise as to negotiation strategies or other legal issues which are more appropriately addressed in a closed session discussion.

2. Informational Items
   a. Chief Executive Officer's Report**; [PRESENTER:** Michael Burrows**; PAGE#:** 045**]**
   b. Policies and Procedures Update **[PRESENTER:** Catherine Pritchett**; PAGE#:** 046**]**
   c. Breeze Airways Las Vegas Launch **[PRESENTER:** Michael Burrows**; PAGE#:** 049**]**
   d. Report on Federal Aviation Administration (FAA) Emergency Exercise **[PRESENTER:** Mark Gibbs**; PAGE#:** 050**]**

H. COMMISSION CONSENT ITEMS

The following consent items are expected to be routine and non-controversial and will be acted upon by the Commission at one time under unless the Commission directs that an item be held for further discussion.

3. Register of Demands – February 22, 2022

   [PRESENTER: Mark Cousineau**; PAGE#:** 051**]**

4. Receive and file Treasurer's Report for December 31, 2022, for the San Bernardino International Airport Authority (SBIAA)

   [PRESENTER: Mark Cousineau**; PAGE#:** 059**]**

5. Approve Change Order No. 1 in the amount of $18,550.00 with AEC Moreno Corporation for a total contract amount not to exceed $68,050.00 for the 1st Floor Concession Stand Improvements Project

   [PRESENTER: Jeff Barrow**; PAGE#:** 062**]**

6. Approve Change Order No. 1 in the amount of $33,800 with AEC Moreno Corporation for a total contract amount not to exceed $83,799.98 for the 2nd Floor Concession Stand Improvements Project

   [PRESENTER: Jeff Barrow**; PAGE#:** 088**]**

7. Authorize staff to advertise a Request for Proposals (RFP) for Heating, Ventilation, and Air Conditioning (HVAC) Contractors

   [PRESENTER: Stephen Mcintyre**; PAGE#:** 117**]**

8. Approve Meeting Minutes: January 25, 2023

   [PRESENTER: Jennifer Farris**; PAGE#:** 120**]**

I. COMMISSION ACTION ITEMS

Anyone who wishes to speak on a particular item will be requested to fill out a speaker slip. Prior to speaking, speaker slips should be turned in to the Clerk of the Board. Public comments for agenda items that are not public hearings will be limited to three minutes. An additional three minutes will be allotted to those who require translation services.

9. Consider and adopt proposed budget adjustments for Fiscal Year 2022-2023

   [PRESENTER: Mark Cousineau**; PAGE#:** 130**]**

10. Approve a construction contract with Jergensen Construction for the City Creek Bypass Channel Maintenance and Repair Phase 1 Project for an amount not to exceed $96,335.20

    [PRESENTER: Jeff Barrow**; PAGE#:** 133**]**

11. Approve Amemdment No. 1 to the professional services agreement with JBT AeroTech Corporation in an amount of $53,499.16 for a total not to exceed contract amount of $150,000 to perform Terminal Passenger Boarding Bridge (PBB) Repairs

    [PRESENTER: Stephen McIntyre**; PAGE#:** 163**]**

12. Approve Amendment No. 1 to the professional services agreement with LSA Associates, Inc. in the amount of $47,000 for a total not to exceed contract amount of $97,000

    [PRESENTER: Mark Gibbs**; PAGE#:** 165**]**

13. Approve Change Order No. 3 with Goss Construction Company, Incorporated which carries a cost impact of $153,876.63 for the Runway 6/24 Joint and Spall Repair Project

    [PRESENTER: Mark Gibbs**; PAGE#:** 167**]**

14. Approve award of a professional services agreement with AECOM Technical Services, Inc. in an amount not to exceed $132,723 for Engineering Design services for the AOA Vehicle Access Road Project

    [PRESENTER: Mark Gibbs**; PAGE#:** 171**]**

15. Approve Change Order No. 2 with Griffith Company with a project cost impact of $344,358.76 for the Taxiway Shoulder Improvement Project

    [PRESENTER: Mark Gibbs**; PAGE#:** 201**]**

16. Review Status of the Action Plan for the San Bernardino International Airport Authority (SBIAA) through June 30, 2023

    [PRESENTER: Michael Burrows; **PAGE#:** 205**]**

J. ADDED AND DEFERRED ITEMS

Deferred Items and Items which have been added pursuant to Government Code Section 54954.2 as noted above in Section E.

K. OPEN SESSION PUBLIC COMMENT

Anyone who wishes to speak during Open Session Public Comment will be requested to fill out a speaker slip. Prior to speaking, speaker slips should be given to the Clerk of the Board. Public comments for items that are not on the agenda will be limited to three minutes. The three-minute limitation shall apply to each member of the public and cannot be shared with other members of the public. An additional three minutes will be allotted to those who require translation services.

L. COMMISSION MEMBER COMMENT

Commission members may make announcements or give brief reports on activities or matters not appearing on the agenda, as well as provide direction to staff relating to matters which may be addressed at this time.

M. ADJOURNMENT

Unless otherwise noted, this meeting will be adjourned to the next meeting of the San Bernardino International Airport Authority Commission on Wednesday, March 22, 2023.

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 1** **PRESENTER: Jennifer Farris, Assistant Secretary of the Commission**

SUBJECT: POSSIBLE CONFLICT OF INTEREST ISSUES FOR THE SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY (SBIAA) COMMISSION MEETING OF FEBRUARY 22, 2023

SUMMARY

This agenda contains recommendations for action relative to certain contractors/principals and their respective subcontractors. Care should be taken by each Commission member to review and consider the information provided herein to ensure they are in compliance with applicable conflict of interest laws.

RECOMMENDED ACTION(S)

Receive for information and consideration in accordance with applicable conflict of interest laws.

FISCAL IMPACT

None.

PREPARED BY:	Jennifer Farris
CERTIFIED AS TO AVAILABILITY OF FUNDS:	N/A
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

The potential conflicts information provided in this report is intended to be used as a means for each voting member to verify campaign contributions from their individual campaign records. The following information is considered to be complete only to the best knowledge that has been disclosed to staff by the following listed contractors and in many instances may not be complete as of the date of publication of the agenda. Staff will endeavor to provide updates and supplements to the disclosure information to the extent additional contractor disclosure information becomes known to staff at or prior to each particular meeting time.

In addition to other provisions of law which prohibit San Bernardino International Airport Authority (SBIAA) Commission members from having financial interests in the contracts of public agencies, the provisions of California Government Code Section 84308 prohibit individual SBIAA Commission members from participating in any Commission proceeding involving a license, permit, or other entitlement for use pending before the Commission, if the individual member has received a contribution of more than two hundred fifty dollars ($250.00) within the preceding twelve (12) months or for three (3) months following any such Commission proceeding, from any person, company or entity who is the subject of the proceeding, including parent-subsidiary and certain otherwise related business entities as defined in the California Code of Regulations, Title 2, Division 6, Section 18438.5, or from any person who actively supports or opposes a particular decision in the proceeding and who has a financial interest in such decision, as defined in California Government Code Section 87103.

The restrictions of Government Code Section 84308 do not apply if the individual member returns the contribution within thirty (30) days from the time they know, or should have known, about the contribution and the proceeding.

This agenda contains recommendations for action relative to the following contractors/principals and their respective subcontractors (as informed to SBIAA staff by the Principals):

Agenda Item No.	Contractors/Tenants	Subcontractors/Subtenants
5. & 6.	AEC Moreno Corporation Hector Moreno, RMO/CEO	None.
10.	Jergensen Construction Inc. Todd Jergensen, President Shirley Jergensen, Secretary Kyle Jergensen, Vice President	None.
11.	JBT AeroTech Corporation David Burdakin, President Edward Schodrof, Vice President James Marvin, Vice President Gregory Packard, Treasurer Frank Moore, President/General Manager	None.

12.	LSA Associates, Inc. Mike Trotta, CEO Ben Reynolds, CFO Tony Petros, COO Amy Fisher, Executive Vice President Blake Selna, Principal in Charge Eric Lichtwardt, Project Manager	None.
13.	Goss Construction Company, Incorporated John T. Goss Jr., President/Treasurer Martha C. Goss, Vice President/Secretary Mark JT Goss, Vice President of Operations	None.
14.	AECOM Technical Services, Inc. See attached list.	None.
15.	Griffith Company Jaimie R. Angus, President/CEO/RMO Ryan Aukerman, Executive Vice President Esteban A. Ruelas, CF O/Secretary/Treasurer Lucas J. Walker, Vice President/Regional Manager Starr N. Stallings, Assistant Secretary	None.

Attachments:

1. California Government Code §§ 84308 and 87103
2. California Code of Regulations, Title 2, Division 6, §18438
3. AECOM Company Information Sheets

CALIFORNIA CODES
GOVERNMENT CODE
SECTION 84308

84308. (a) The definitions set forth in this subdivision shall govern the interpretation of this section.

(1) "Party" means any person who files an application for, or is the subject of, a proceeding involving a license, permit, or other entitlement for use.

(2) "Participant" means any person who is not a party but who actively supports or opposes a particular decision in a proceeding involving a license, permit, or other entitlement for use and who has a financial interest in the decision, as described in Article 1 (commencing with Section 87100) of Chapter 7. A person actively supports or opposes a particular decision in a proceeding if he or she lobbies in person the officers or employees of the agency, testifies in person before the agency, or otherwise acts to influence officers of the agency.

(3) "Agency" means an agency as defined in Section 82003 except that it does not include the courts or any agency in the judicial branch of **government**, local governmental agencies whose members are directly elected by the voters, the Legislature, the Board of Equalization, or constitutional officers. However, this section applies to any person who is a member of an exempted agency but is acting as a voting member of another agency.

(4) "Officer" means any elected or appointed officer of an agency, any alternate to an elected or appointed officer of an agency, and any candidate for elective office in an agency.

(5) "License, permit, or other entitlement for use" means all business, professional, trade and land use licenses and permits and all other entitlements for use, including all entitlements for land use, all contracts (other than competitively bid, labor, or personal employment contracts), and all franchises.

(6) "Contribution" includes contributions to candidates and committees in federal, state, or local elections.

(b) No officer of an agency shall accept, solicit, or direct a contribution of more than two hundred fifty dollars ($250) from any party, or his or her agent, or from any participant, or his or her agent, while a proceeding involving a license, permit, or other entitlement for use is pending before the agency and for three months following the date a final decision is rendered in the proceeding if the officer knows or has reason to know that the participant has a financial interest, as that term is used in Article 1 (commencing with Section 87100) of Chapter 7. This prohibition shall apply regardless of whether the officer accepts, solicits, or directs the contribution for himself or herself, or on behalf of any other officer, or on behalf of any candidate for office or on behalf of any committee.

(c) Prior to rendering any decision in a proceeding involving a license, permit or other entitlement for use pending before an agency, each officer of the agency who received a contribution within the preceding 12 months in an amount of more than two hundred fifty dollars ($250) from a party or from any participant shall disclose that fact on the record of the proceeding. No officer of an agency shall make, participate in making, or in any way attempt to use his

or her official position to influence the decision in a proceeding involving a license, permit, or other entitlement for use pending before the agency if the officer has willfully or knowingly received a contribution in an amount of more than two hundred fifty dollars ($250) within the preceding 12 months from a party or his or her agent, or from any participant, or his or her agent if the officer knows or has reason to know that the participant has a financial interest in the decision, as that term is described with respect to public officials in Article 1 (commencing with Section 87100) of Chapter 7.

If an officer receives a contribution which would otherwise require disqualification under this section, returns the contribution within 30 days from the time he or she knows, or should have known, about the contribution and the proceeding involving a license, permit, or other entitlement for use, he or she shall be permitted to participate in the proceeding.

(d) A party to a proceeding before an agency involving a license, permit, or other entitlement for use shall disclose on the record of the proceeding any contribution in an amount of more than two hundred fifty dollars ($250) made within the preceding 12 months by the party, or his or her agent, to any officer of the agency. No party, or his or her agent, to a proceeding involving a license, permit, or other entitlement for use pending before any agency and no participant, or his or her agent, in the proceeding shall make a contribution of more than two hundred fifty dollars ($250) to any officer of that agency during the proceeding and for three months following the date a final decision is rendered by the agency in the proceeding. When a closed corporation is a party to, or a participant in, a proceeding involving a license, permit, or other entitlement for use pending before an agency, the majority shareholder is subject to the disclosure and prohibition requirements specified in subdivisions (b), (c), and this subdivision.

(e) Nothing in this section shall be construed to imply that any contribution subject to being reported under this title shall not be so reported.

CALIFORNIA CODES
GOVERNMENT CODE
SECTION 87103

87103. A public official has a financial interest in a decision within the meaning of Section 87100 if it is reasonably foreseeable that the decision will have a material financial effect, distinguishable from its effect on the public generally, on the official, a member of his or her immediate family, or on any of the following:

(a) Any business entity in which the public official has a direct or indirect investment worth two thousand dollars ($2,000) or more.

(b) Any real property in which the public official has a direct or indirect interest worth two thousand dollars ($2,000) or more.

(c) Any source of income, except gifts or loans by a commercial lending institution made in the regular course of business on terms available to the public without regard to official status, aggregating five hundred dollars ($500) or more in value provided or promised to, received by, the public official within 12 months prior to the time when the decision is made.

(d) Any business entity in which the public official is a director, officer, partner, trustee, employee, or holds any position of management.

(e) Any donor of, or any intermediary or agent for a donor of, a gift or gifts aggregating two hundred fifty dollars ($250) or more in value provided to, received by, or promised to the public official within 12 months prior to the time when the decision is made. The amount of the value of gifts specified by this subdivision shall be adjusted biennially by the commission to equal the same amount determined by the commission pursuant to subdivision (f) of Section 89503.

For purposes of this section, indirect investment or interest means any investment or interest owned by the spouse or dependent child of a public official, by an agent on behalf of a public official, or by a business entity or trust in which the official, the official's agents, spouse, and dependent children own directly, indirectly, or beneficially a 10-percent interest or greater.

(Regulations of the Fair Political Practices Commission, Title 2, Division 6, California Code of Regulations.)

§ 18438.5. Aggregated Contributions Under Section 84308.

For purposes of Section 84308:

(a) Notwithstanding the provisions of Regulation 18215.1, to determine whether a contribution of more than $250 has been made by any party to a proceeding, contributions made by a party's parent, subsidiary, or otherwise related business entity, (as those relationships are defined in subdivision (b) below), shall be aggregated and treated as if received from the party for purposes of the limitations and disclosure provisions of Section 84308.

(b) Parent, Subsidiary, Otherwise Related Business entity, defined.

(1) Parent-subsidiary. A parent-subsidiary relationship exists when one corporation has more than 50 percent of the voting power of another corporation.

(2) Otherwise related business entity. Business entities, including corporations, partnerships, joint ventures and any other organizations and enterprises operated for profit, which do not have a parent-subsidiary relationship are otherwise related if any one of the following three tests is met:

(A) One business entity has a controlling ownership interest in the other business entity.

(B) There is shared management and control between the entities. In determining whether there is shared management and control, consideration should be given to the following factors:

(i) The same person or substantially the same person owns and manages the two entities;

(ii) There are common or commingled funds or assets;

(iii) The business entities share the use of the same offices or employees, or otherwise share activities, resources or personnel on a regular basis;

(iv) There is otherwise a regular and close working relationship between the entities; or

(C) A controlling owner (50% or greater interest as a shareholder or as a general partner) in one entity also is a controlling owner in the other entity.

Note: Authority cited: Section 83112, Government Code. Reference: Section 84308, Government Code.

HISTORY

1. New section filed 5-26-2006; operative 6-25-2006. Submitted to OAL for filing pursuant to *Fair Political Practices Commission v. Office of Administrative Law*, 3 Civil C010924, California Court of Appeal, Third Appellate District, nonpublished decision, April 27, 1992 (FPPC regulations only subject to 1974 Administrative Procedure Act rulemaking requirements and not subject to procedural or substantive review by OAL) (Register 2006, No. 21). For prior history of section 18438.5, see Register 85, No. 8.

2. Amendment filed 8-12-2014; operative 9-11-2014 pursuant to title 2, section 18312(e)(1) of the California Code of Regulations. Submitted to OAL for filing and printing pursuant to *Fair Political Practices Commission v. Office of Administrative Law*, 3 Civil C010924, California Court of Appeal, Third Appellate District, nonpublished decision, April 27, 1992 (FPPC regulations only subject to 1974 Administrative Procedure Act rulemaking requirements and not subject to procedural or substantive review by OAL) (Register 2014, No. 33).

COMPANY INFORMATION SHEET

DECLARATION

I declare under penalty of perjury under the laws of the State of California I have completed this Company Information Sheet and that the information contained herein is factual and accurate as of the date completed.

Completed and executed this 16 [day] day of April [month], 2020, in Orange [city], CA [state].

By: Matt Ulukaya

Print Name: Matt Ulukaya

Print Title: Vice President

LEGAL NAME OF COMPANY: AECOM Technical Services, Inc.

ADDRESS: 999 Town & Country Rd., Orange, CA 92868

TELEPHONE: (714) 567-2400 FAX: (714) 551-4911

TYPE OF BUSINESS (Check One):

[X]	CORPORATION	[ ]	LIMITED LIABILITY COMPANY
[ ]	PARTNERSHIP	[ ]	JOINT VENTURE
[ ]	INDIVIDUAL		
[ ]	INDIVIDUAL DOING BUSINESS UNDER A FIRM NAME		
[ ]	OTHER_____		

STATE OF INCORPORATION OR FORMATION:

California

PRINCIPALS/OFFICERS/PARTNERS/OWNERS OF COMPANY

(List All Principals/Officers/Partners [including Joint Venture Partners, Managing Partner], as well as investors/investment companies):

Name	Title
See attached list	

[PLEASE ATTACH ADDITIONAL SHEETS AS NECESSARY IN ORDER TO PROVIDE ALL REQUESTED INFORMATION.]

IDENTIFICATION OF PRINCIPAL(S)/OFFICER(S)/REPRESENTATIVE(S) OF COMPANY – Execution of Legal Documents:

The Company has authorized and hereby designates the following individual(s) to execute legal documents on behalf of Company, including but not limited to contract documents, proposals and related documents:

Name	Title
Matt Ulukaya, PE	Vice President
Michael G. Gasparro, PE	Sr. Vice President

IDENTIFICATION OF PRINCIPAL(S)/OFFICER(S)/REPRESENTATIVE(S) OF COMPANY – Representative and/or Management Capacity:

The Company has authorized and hereby designates the following individual(s) to serve in a representative and/or management capacity on behalf of Company relating to the concerned project, contract document, lease document, development document, or any other legal document or agreement, including but not limited to manager, project manager, site manager, etc.

Name	Title
Duke Young, PE	Project Manager
Michael G. Gasparro, PE	Principal-In-Charge
Matt Ulukaya, PE	Vice President

[PLEASE ATTACH ADDITIONAL SHEETS AS NECESSARY IN ORDER TO PROVIDE ALL REQUESTED INFORMATION.]

All AECOM Technical Services, Inc. officers in the United States with Board of Directors approved corporate titles of Senior Vice President or above are authorized under the bylaws of AECOM Technical Services, Inc. to execute contracts or otherwise bind the company. In addition, the individuals listed below have been authorized by the AECOM Technical Services, Inc. Board of Directors to execute contracts or otherwise bind the company within the boundaries of the noted Regions and Business Lines. Authority to sign on behalf of AECOM Technical Services, Inc., is personal to the individual so authorized; AECOM does not permit individuals so authorized to delegate their authority. Signature Authority (including the execution of contracts, contract amendments, and proposals) must in all cases conform to the then-current Americas Geography Sub-Delegations of Authority and any further sub-delegation document issued by the Region or Business Line, as applicable.

AECOM Technical Services, Inc. – Signatory List

Effective March 4, 2020

Last Name	First Name	Region	Area/Market Sector	Business Line
Abbott	Mark	Southeast	Greater FL/Latin America/Miami Metro	Water
Abellera	Yvonne	All	All	Support/Cross Services
Abernethy	Robert	Central	Central	Water
AbiDargham	Antoine	NY Metro+	NYC Metro	Buildings + Places
Abolt	Bill	All	Infrastructure Leadership - level 5	Power & Industrial
Abs	Michael	All	All	Procurement
Adams	Mike	Midwest	Eastern Midwest	Environment
Adams	Robert	Northeast	New England	Water
Adilman	Aaron	All	Building Engineering	Buildings + Places
Agustin	Roy-Alan C.	Pacific	Pacific	Environment
A'Hara	Allan	All	National Transportation	Transportation
Alberg	Jonathan	All	All	Environment
Albrecht	John	Northeast	New England	Environment
Alfonso	Juan	Southeast	Florida	PPM
Alfstad	Kelley	Central	Central	B+P
Allwarden	Joseph	Northeast	Northeast	Transportation
Amoriello	Jeff	Southeast	DC Metro	Transportation
Anderson	Francis B.	Central	Central	Buildings + Places
Anthony	Osborne	Southeast	Mid-Atlantic	Transportation
Arkin	Yoav	Southeast	Mid-Atlantic	Transportation
Armstrong	Glenn I	Midwest	Eastern Midwest	Environment
Arvidson	Mike	Pacific	Greater Southern California	Environment
Astorga	Mack	All	Industrial	Power and Industrial

Attalla	Mourad R.	Pacific	Pacific	Water
Atter	Steve	Northeast	New England	Environment
Attia	G. Jerry	Central	Central	Buildings + Places
Augen	Joel	All	All	Subcontracts/Procurement
Aylsworth - Bonzelet	Laura	Central	Central	Transportation
Azzaro	John	NY Metro+	NYC Metro	Transportation
Bachmann	John	DC Metro+	DC Metro	Buildings + Places
Baker	Barry	Northeast	Philadelphia Metro	Power and Industrial
Baker	Christie	Northeast	Northeast	Transportation
Baker	Mike	Southeast	Mid-Atlantic	Transportation
Barkley	Christopher M.	Pacific	National Government	National Government
Barnard	Thomas	Pacific	Greater Northern California	Transportation
Barreiro	Ana	Southeast	Argentina	Support/Cross Services
Barrett	Jim	Gulf/Southwest		
Bartku	Chris	All	NA - CORPORATE US (960)	Support/Cross Services
Bass	Jennifer Lynn	Southeast	Florida	Environment
Bayer	Kelly	Pacific	Pacific	Environment
Bazarevitsch	Sergio	All	All	Water
Beabes	Shane	Southeast	Mid-Atlantic	Transportation
Beachler	David	Northeast	Greater New York/PA	Oil & Gas
Beasley	Jason Dion	Southeast	Southeast	Water
Beattie	Karen	Pacific	Pacific Northwest	Environment
Beatty	Brent D.	Southeast	Southeast	Buildings + Places
Beck	Daryl	Midwest	Midwest	Environment
Becker	Chad	All	All	Corporate - Federal Subcontracts/Procurement
Beckett	David P.	Northeast	Northeast	PPM
Belhateche	Dannelle	Gulf/Southwest	Rocky Mountain Area	Environment
Belyea	Ryan William	Southeast	Mid-Southeast	Environment
Benosky	Chris	NY Metro+	NYC Metro	Water
Bent	Willliam	Northeast	New England	Water

Benton	Charles Elon	Southeast	Southeast	Environment
Berckenhoff	Steve	Central	Central	Water
Bergman	Christopher	Midwest	Eastern Midwest	Cultural Resources, Oil & Gas
Bernhoft	Craig A.	Southeast	Southeast	Environment
Bernitt	Elisabeth A.	Southeast	Southeast	
Berra	Brett	All	All	Environment
Besch	Tyler	Central	Central	Transportation
Beyak	Rich	Pacific	Greater Northern California	Environment
Bingham	David	Northeast	Greater New York - Pennsylvania	Water
Bixby	Jennifer	Central	Central	Transportation
Blair	David	Northeast	Northeast Sub Bus Line Support	Water
Blanchard	Mark	Southeast	Miami Metro	All
Blough	Donald	Northeast	Pennsylvania	Transportation
Bochet	Larry	NY Metro+	NYC Metro	Energy
Bodniewicz	Bohdan	DC Metro+	DC Metro	Water
Bolender	Brian	Northeast	Greater Pennsylvania	Oil & Gas
Bongiorno	Michael	Central	Central	Buildings + Places
Boone	Travis	Central	Central	Region Executive
Boose	Brian	DC Metro+	DC Metro+	Environment
Bottom	Lisa O.	Pacific	Pacific	Buildings + Places
Boucle	Julio	Southeast	Miami Metro	Transportation
Bow	Bill	All	Industrial	Environment
Bowers	John	DC Metro+	DC Metro	Water
Bradfield	Clay	Pacific	Greater Southern California	Environment
Brandon	Karen Diane	Southeast	Florida	Water
Brehm	Kevin	Midwest	Midwest	Environment
Brendle	Katharine	West	West	Transportation
Breor	Mark	NY Metro	NY Metro	Support/Cross Services
Brewer	Chris	Central	Central	Buildings + Places
Brickell	Jim	Southeast	Mid-Southeast	Environment
Briggs	Jerry	DC Metro+	DC Metro	Buildings + Places
Broderick	Joseph M.	NY Metro	NY Metro	Power/Environment

Brogdon	Tanika	All	All	Procurement FBS Contracts
Buchanan	D Scott	Central	Central	Transportation
Buell	Susan P.	All	All	Procurement FBS Contracts
Buresh	Nancy G	All	All	Support/Cross Services/Procurement
Burke	Joel	Southeast	Mid-Southeast	PPM
Buser	John N.	Central	Central	Water
Butzier	David R.	Pacific	Pacific	Transportation
Cababa	Robin	Pacific	Hawaii-Guam	Environment
Callegari	Jazzmin	All	All	Support/Cross Services/Procurement
Calver	David M.	National BL	National BL	Transportation
Calvet	Roberto	Latin America	Latin America	All
Campbell	Julia M.	Pacific	Pacific	Buildings + Places
Campbell	Keith T	LA Metro+	LA Metro	Water
Canimore	Brett	Northeast	Philadelphia Metro	Transportation
Caoili	Leslie	All	Subcontracts/Procurement	Support/Cross Services/Procurement
Caravousanos	Peter T.	Northeast	New York Metro	Buildings + Places
Carlson	Kevin	Central	Central	Transportation
Carnahan	Benjamin S.	Central	Central	Transportation
Carpio	Kristy Noriko Nakahara	All	All	Procurement FBS Contracts
Carter	Ray	Central	Central	Transportation
Cascino	Thomas	NY Metro+	NYC Metro	Transportation
Cataldo	Robert	Environment	Industrial	Environment
Cavalieri	Ronald R.	Southeast	Southeast	Water
Chambers	Carl	Southeast	Mid-Southeast	Water
Chambless	Melinda	All	Dow Chemical, Blue Cube, Olin for LA	Oil & Gas
Chaney	Mary "Katy"	Pacific	Pacific Northwest	Environment
Chapman	Jeffrey G.	LA Metro+	LA Metro	Transportation
Chapman	Joseph B.	Southeast	Southeast	Water
Chavez	Maribel	Central	Central	Transportation
Chelton	Donald	Northeast	New England	Water
Cherifi	Said	DC Metro+	DC Metro	Transportation
Chilarescu	Ioan C.	Central	Central	Water

Chorbajian	Abe	All	NA - B+P National Business Line (991)	Buildings + Places
Clark	Angela	West	West	Environment
Clements	Denise	All	ORM	Support/Cross Services
Clemow, III	Paul E	ENV Programs	Oil & Gas	Environment
Clendenin	Bill	DC Metro+	DC Metro	Buildings + Places
Clothier	Andrew	DC Metro+	DC Metro	Water
Cochran	Noelle	Central	ORM	Support/Cross Services
Cohen	Nancy	Central	Central	PPM
Cohen	Tim	Pacific	Southern California	Power and Industrial
Colagiovianni	Tony	Pacific	Greater Southern California	PPM
Coleman	Latonya	All	All	Support/Cross Services/Procurement
Collins	Michael	Southeast	Mid-Atlantic	Buildings + Places
Collister	Scott	Southeast	Greater Florida	Transportation
Connair	Dennis P	Midwest	Eastern Midwest	Environment
Converse	Michael Stone	West	West	Buildings + Places
Cooling	Thomas	Central	Central	Environment
Cooper	Cheryl	All	All	Support/Cross Services/Procurement
Corda	Donald N.	DC Metro+	DC Metro	Transportation
Corey	Daniel G.	All	DCS Americas	Transportation
Corney	Steve	All	National Environment	Environment
Covarrubias	Marco	West	West	Support/Cross Services/Procurement
Cowin	Diane H.	Pacific	Pacific	Transportation
Cox	Steve	All	Federal	Environment
Craig	William	West	West	Environment
Creighton	Jim	West	West	Energy
Crider	Derek A.	DC Metro+	DC Metro	Transportation
Crist	Paul V.	NYC Metro	Highway/Bridge	Transportation
Crocker	Allen	DC Metro+	DC Metro	Buildings + Places
Crumpton	Kristen	Central	Central	Water
Curran	Chris	Northeast	Philadelphia Metro	Water

Cushman	Thomas	Northeast	Philadelphia Metro	Transportation
Cyr	Patrick Joseph	Northeast	Northeast	Water
Czarnecki	R Martin	Pacific	Northern California	Transportation
Dailey	David S.	Central	Central	PPM
Damm	Beate	All	Dow Chemical, Blue Cube, Olin, plus all other O, G&C clients in South Texas	Oil & Gas
Danna	Staci	Gulf/Southwest	Gulf Coast	Environment
Darnell	Charles	Northeast	New England	Water
Darrington	Mark	Southeast	Mid-Southeast	Environment
Davis	Charles	Southeast	Greater Florida	Buildings + Places
de Almagro	Jose	All	National Transportation	Transportation
Dean	Daniel (Rob)	DC Metro+	DC Metro	Transportation
Deaver	Greg	Southeast		Environment
DeCesar	Rick	All	National Oil & Gas	Oil & Gas
Dechiara	Michael	All	All	Support/Cross Services/Procurement
DeCianne	Vincent	Gulf Southwest Region	Gulf Southwest/ Rocky Mountain Area	Environment
Deems	Zachary R.	Central	Central	Transportation
deGroot	Remmet J.	Central	Central	Support/Cross Services
Dekker	Charlene June	All	All	Buildings + Places
Delgado	Luis	Central	Central	PPM
Delphos	Paul	DC Metro+	DC Metro+	Water
Dempsey	Steve	NY Metro+	NYC Metro	Transportation
DePaola	Frank	Northeast	New England	PPM
Deros	Nick	Southeast	Mid-Atlantic	Transportation
Devine-Poithier	Sarah	West	West	Buildings + Places
deVivero	Deborah	All	All	Support/Cross Services/Procurement
Dewan	Komal	LA Metro+	DPE	Buildings + Places
Didier	David	Northeast	Philadelphia Metro	Transportation
Dinges	Eric Thomas	Southeast	Southeast	Buildings + Places

Doane-Allman	Julie	LA Metro	Greater Southern California	Environment
Doherty	Michael	Northeast	New England	Environment
Domingo	Camarano	Pacific	Southern California	PPM
Donahue	Michael J	All	National Water	Water
Donelson	Sam	Northeast	Philadelphia Metro	Transportation
Donovan	John J.	Midwest		Environment
Donovan	Thomas	LA Metro+	LA Metro	PPM
Dopheide	Andy	Midwest	Legal	
D'Orazio	Julie	Northeast	Northeast Sub Bus Line Support	Transportation
Dorward	Martin (Marty)	DC Metro+	DC Metro+	Water
Doyle	Jay	Northeast	New England	Transportation
Drabic	Matthew	Central	Central	Buildings + Places
Drake	Liz	LA Metro+	LA Metro	Buildings + Places
du Toit	Gerhard D.	Northeast	Northeast	Transportation
Duethman	Stephen J.	Central	Central	Buildings + Places
Dugosh	Joey	All	All	Support/Cross Services/Procurement
Duncan	Jay	All	Planning	Transportation
Dwight	Don	Northeast	New England	Environment
Dwyer	Charles T.	Central	Central	Transportation
Dwyer	Margaret	Southeast	Mid-Southeast	Transportation
Eckman	Alan	Central	Central	Transportation
Edgar	Michael	Southeast	Southeast	Environment
Edwards	Ashley	All	NA - Corporate US	Power & Industrial
Edwards	Garrick	Southeast	Mid-Southeast	Transportation
Edwards	Mike	Pacific	Pacific Northwest	Environment
Edwards	Thomas D.	Southeast	Mid-Atlantic	Transportation
Eicholtz	Mark	Southeast	Greater Florida	Transportation
Ekambaram	Vanavan	NYC Metro	NYC Metro	Environment
Eklund	Bart	All	National Environment	Environment
Eldred	Nicholas	Midwest		Environment
Engelke	Jon	All	National Transportation	Transportation
Engler	Kurt	Central	Central	Buildings + Places
Erdal	Zeynep Kisoglu	LA Metro+	LA Metro	Water
Espy	David	All	All	Environment
Etherton	Jim	Central	Central	Transportation

Evans	Charles H.	Southeast	Florida/Federal	Building + Places
Everett	Jan	Southeast	Greater Florida	Transportation
Feldsher	Theodore B.	Pacific	Pacific	Water
Felt	Wade	DC Metro+	DC Metro+	Transportation
Fenner	Teri	Pacific	Southern California	Environment
Findlen	Suzanne	Northeast		Power
Fink	Ben	DC Metro+	DC Metro	Buildings + Places
Finnell	Brian A.	Northeast	New England	Environment
Fiori	Bruno	Southeast	Greater Florida	Transportation
Fitzgerald	Conan D.	Southeast	Southeast	Environment
Fitzwilliam	Steve	West	West	Water
Flack	Mike	Pacific	Greater Southern California	Environment
Flasz	Aileen	Southeast	Panama	Environment
Flautt	Aaron	All	All	Transportation
Formagus	Jason	Management		
Forrest	Mike	West	West	Water
Franano	Michael D.	Midwest	Central Midwest	Environment
Francis	Mathew	Central	Central	Water
Francisco	Jay A.	All	All	Environment
Frauhigher	Todd	Central	Central	Water
Free	Lou	Northeast	New England	Transportation
Freeman	Gary L.	Southeast	Southeast	Water
Fricke	Rebecca	Southeast	DC Metro	Environment
Frison	Shelly R.	All	All	Support/Cross Services/Procurement
Frownfelter	Jen	All	National Power and Industrial	Power & Industrial
Fuchs	Randy	Central	Central	Transportation
Fulton	David	All	All	Environment
Gaal	Jeff	All	Exxon Mobil	Oil & Gas
Gabaldon	Mike	Pacific	Pacific Sub Bus Line Support	Water
Gaiser	Bane L.	Central	Central	B+P
Gajwani	Sachin	Northeast	NYC Metro	Water
Gallagher	Judy	All	National Government	Federal
Galli	Mike	All	National Transportation	Transportation
Galloway	Steven E	All	PPM WEST (717)	Construction Services
Garcia	Carlos	Southeast	Miami Metro	Transportation

Garland	Michelle R.	All	All	Support/Cross Services/Procurement
Garrison	Paul T	DC Metro+	DC Metro	Buildings + Places
Gasparro	Mike	All	National Transportation	Transportation
Gault	George	Southeast	Greater Florida	Transportation
Gauthier	Dale	LA Metro+	LA Metro	Power and Industrial
Gayle	Perry	Southeast	Mid-Southeast	Water
George	John A.	Central	Central	B+P
Gerber	Dean	Midwest	Midwest	Environment
Gerken	John Matthew	Pacific	Pacific	Environment
Giles	Gabe	NY Metro+	NYC Metro	Water
Girard	Duane	W. Canada/Toronto Metro+	Greater Ontario/Greater Toronto	PPM
Girman	Michael	Northeast	Philadelphia Metro	Transportation
Gladu	Nicole	Pacific	Pacific	Environment
Glapa	Carol A.	All	All	Support/Cross Services/Procurement
Glowacki	Joseph R. (Joe)	Southeast	Greater Florida	Transportation
Glunz	Greg	Central	Central	Water
Goldman	Jeff	Pacific	Greater Northern California	Buildings + Places
Goodman	John "Mike"	Southeast	Mid-Atlantic	Buildings + Places
Gogue	Cynthia V.	All	All	Support/Cross Services/Procurement
Gorham	Bill	Pacific	Greater Southern California	Environment
Gorman	Richard L.	DC Metro	DC Metro	B+P
Gourlay	Alexander	Central	Central	Water
Graham	Bill	Pacific	Greater Southern California	Environment
Grant	Lee	Southeast	Southeast Region Mgmt	Support/Cross Services
Gray	Damon Richard	West	West	Buildings + Places
Gray	John	DC Metro+	DC Metro+	Transportation
Green	Tim	All	US DOD (Air Force and Army)	Environment

Greenan	Joseph P.	All	National Government	National Government
Greenwood	Michael	Southeast	Mid-Atlantic	Transportation
Grieveson	Curtis	Southeast	Mid-Atlantic	Buildings + Places
Grinstead	Gary	DC Metro+	DC Metro	Environment
Groves	Gregory	Central	Central	Transportation
Guigliano-Gilmore	Jennifer	Environment	Industrial	Environment
Guillot	Glenda M.	All	All	Support/Cross Services
Gundarlahalli	Jagadish	LA Metro+	LA Metro	Environment
Gunn	John F.	Northeast	New York Metro	Buildings + Places
Gunner	Tim	Northeast	Philadelphia Metro	Transportation
Gut	Thomas W.	Pacific	Pacific	Transportation
Gwinn	Rosa	DC Metro+	DC Metro	Environment
Habib	Riad N	NY Metro	NY Metro	Power
Hadfield	Phillip	All	National Transportation	Transportation
Hagen	Kevin R.	Central	Central	Transportation
Hall	Thomas Brian	Southeast	Tennessee	Transportation
Hallinan	Timothy	DC Metro+	DC Metro+	Water
Hammer	Christopher John	Southeast	Mid-Southeast	Water and Power
Handfelt	Leo	Pacific	Greater Southern California	Water
Handley	Mark A.	All	National Government	National Government
Hanna	Fred	Southeast	Mid-Southeast	Power & Industrial
Hansen	Richard M	LA Metro+	LA Metro	Buildings + Places
Hapkiewicz	John T.	Northeast	New England	Transportation
Harper	Garrett	Central	Central	Buildings + Places
Harrington	Amy K.	All	All	Support/Cross Services/Procurement
Harris	Neil	Pacific	Greater Northern California	Support/Cross Services
Harrison	Matt	All	Upstream Clients	Oil & Gas
Harrison	Terri	All	All	Support/Cross Services/Procurement
Hartsock	Douglas R.	Pacific	Pacific	Water

Hartung	Scott	Southeast	Mid-Southeast	Environment
Harward	Robert J. (Bobby)	All	National Government	National Government
Haselden	Tom	Southeast	Mid-Southeast	Water
Haskell	Nick	Pacific	San Francisco Bay Area Metro	Buildings + Places
Haux	Michael J	ENV Programs	Oil & Gas	Environment
Hawthorne	Robert	Central	Central	Water
Hayter	John	Southeast	DC Metro	Transportation
Heinicke	John	Midwest	Central Midwest	Environment
Helmlinger	Brian	DC Metro+	DC Metro	Environment
Henderson	Carrie B.	Southeast	Southeast	Environment
Henkel	Daniel R.	All	All	Procurement FBS Contracts
Henriquez	Steve	Southeast	Greater Florida	Transportation
Herer	David	All	National Water	Water
Herman	Reginald	Gulf/Southwest	Texas	Environment
Hernandez	Ashleigh	All	All	Support/Cross Services/Procurement
Hernandez	David	All	National Government	National Government
Hernandez	Pedro	Southeast	Miami Metro	Water
Herrin	Jeff	Pacific	Greater Northern California	Water
Herring	Gina E.	Southeast	Florida	Environment
Hertz	Robert	West	West	Transportation
Hicks	Peter A	ENV Programs	Oil & Gas	Environment
Higginbotham	Herbert	Northeast	Greater New York - Pennsylvania	Water
Hille	Glen	LA Metro+	LA Metro	Support/Cross Services
Hinkle	Ray	NY Metro+	NYC Metro	Environment
Hinson	Charles	Pacific	Pacific Northwest	PPM
Hissen	Ramsey	Pacific	Northern California	Transportation
Hoebener	Pam	All	HR	
Hogue	Kelly M.	All	All	All
Holland	Craig	Pacific	Pacific Sub Bus Line Support	Transportation
Holland	Joshua G.	All	All	All
Holt	Steve	Southeast	Southeast	Environment
Holtan	Tom	Central	Central	Water

Holter	Mark	LA Metro	Greater Southern California	Building Engineering
Hoose	Will	LA Metro	LA Metro	Environment
Hopwood	Jonathan	DC Metro+	DC Metro	Buildings + Places
Horn	Ben P	Pacific	Greater Southern California	Water
Horton	Lenore H.	Southeast	Southeast	Water
House	Mike	Southeast	Southeast	Power and Industrial/Oil & Gas
Houston	Tina	Southeast	Georgia/Alabama	Water
Hoyle	Dennis	Southeast	Mid-Southeast	Transportation
Hromada	Don	NY Metro+	NYC Metro	Transportation
Huff	Nadine E.	All	All	Procurement FBS Contracts
Hummert	James B	Central	Central	Water
Hunter	Tom	Central	Central	Transportation
Hurley	Bobbie	Southeast	Mid-Southeast	Environment
Igoe	Andrea D.	All	All	Support/Cross Services/Procurement
Isaacs	Jon	Pacific	Pacific Northwest	Environment
Issa	Rami	Central	Central	Water
Iverson	Steven K.	Midwest	Central Midwest	Environment
Jacobson	Peter	All	Chemicals/Pharma Lead	Environment
Jaff	Omar G.	Pacific	Pacific	Transportation
James	Stephen R.	DC Metro+	DC Metro+	Water
Jammal	Nabil	Pacific		Aviation
Jarboe	Brian	Southeast	Mid-Atlantic	
Jelen	Michael Joseph	Southeast	Southeast	PPM
Jenkins	Scott T.	Southwest	Greater Southwest	Environment
Jeung	Rod	Pacific	San Francisco Bay Area Metro	Environment
John	David	Gulf/Southwest	Texas/Gulf Coast	Environment
Johnson	Diane	All	All	Subcontracts/Procurement
Johnson	Katie	Central	Central	Buildings + Places
Johnson	Kristine Bishop	Southeast	Southeast	Buildings + Places
Jones	Angela J.	Southeast	Mid-Atlantic	Transportation
Jongleux	Brenda S.	All	All	All
Jorgenson	Denzil L	Midwest	Central Midwest	Environment

Josey	Crystal	LA Metro	Greater Southern California	Environment
Julius	Michelle	Central	Central	Transportation
Kacer	Andy	Southeast	Greater Florida	Transportation
Kaczor	Jim	Northeast	Greater New York - Pennsylvania	Environment
Kajiya	Keith	LA Metro+	LA Metro	PPM
Kalapos	Beth A.	Central	Central	Buildings + Places
Kamath	Vivek S	Southeast	Miami Metro	Environment
Kaselow	Richard	Central	Central	Buildings + Places
Kauffman	Mark D.	Northeast	New England	Environment
Kay	Bruce	Northeast	Greater Pennsylvania	Transportation
Kazmi	Syed	West	West	Transportation
Keady	Kevin	Central	Central	Buildings + Places
Keay	Marcus Owen	West	West	Buildings + Places
Keegan	Katherine A.	Northeast	New England	Transportation
Keil	George	Northeast	Greater Pennsylvania	Environment
Kellner	Gregory	All	All	Environment
Kelly	Shawn	Pacific	SF Metro	Power and Industrial
Kelmar	Laura	Northeast	New England	Environment
Kelsey	Scott	West	West	Transportation
Kemple	Eleanor R.	All	All	Support/Cross Services/Procurement
Kennedy	Evangeline R.	All	All	Procurement FBS Contracts
Kerwin	Michael	Southeast	Miami Metro	Buildings + Places
Kesar	Shivani	Southwest	Greater Southwest	Environment
Kettinger	Thomas	Midwest	Central Midwest	Environment
Khalilian	Kamran	Southeast	Mid-Atlantic	Transportation
Khouri	Jeff	LA Metro+	LA Metro	Transportation
Khoury	Majed A.	NYC Metro	NYC Metro	Environment
Kim	Eugene	Pacific	LA Metro	Transportation
King	Erica	Southeast	Mid-Southeast	Water
Kinneen	John	All	PPM	Water
Kirby	Tom	Southeast	Mid-Atlantic	Transportation
Kirschner	Randy L.	Central	Central	Buildings + Places
Kleinman	Robert	DC Metro+	DC Metro	Transportation
Klimek	Kevin	Central	Central	Water

Kolbeck	Ann E.	All	All	Support/Cross Services/Procurement
Korose	Gregory L	West	West	Environment
Koski	TJ	All	All	Support/Cross Services/Procurement
Kostage	Stephen	NY Metro+	NYC Metro	Environment
Kouchoukos	John	All	ORM	Support/Cross Services
Kovacic	Tom	Midwest	Eastern Midwest	Environment
Krach	Ken	Southeast	Mid-Atlantic	Buildings + Places
Krul	Steven A	ENV Programs	Oil & Gas	Environment
Kumta	Ashok	Southeast	Mid-Atlantic	Transportation
Kyles	James	Central	Central	Environment
Labrum	Lori	Central	Central	Transportation
Laferte	Denise	All	Federal	Water
Lambrecht	Michael	Southeast	Mid-Southeast	Power
Lang	Gabriel	Southeast	Southeast	Environmental
Lang	Mark	Northeast	Greater New York/PA	Water/Environment
Langlais	Aaron L.	All	All	All
Lanham	Sacha J.	All	All	Support/Cross Service/Procurement
Lanier	Lisa M	All	All	Support/Cross Services/Procurement
LaPlaca	Frank	NY Metro+	NYC Metro	Transportation
Larkin	Mona	Metro New York	Upstate New York	Environment
Lavey	Robert A.	LA Metro+	LA Metro+	B+P
Lay	Garry	Pacific	LA Metro+	Environment
Lay	Richard	Central	Central	Buildings + Places
Leach	Steve	Pacific	Northern California	Environment
Leahy	George	NY Metro+	NYC Metro	Environment
Lebel	Sean	DC Metro+	DC Metro+	Building + Places
Lee	C Scott	Southeast	Miami Metro	Water
Lee	Daniel A.	LA Metro+	LA Metro	Transportation
Lee	Joseph	All	All	Support/Cross Services/Procurement
Legorreta	Joaquin	All	All	Procurement

Lehman	Dale	All	National Government	National Government
Leidy	Roy	Pacific	Greater Northern California	Environment
Leininger	Richard	DC Metro	DC Metro	Transportation
Lelong	Bruce R.	Central	Central	Water
Leonard	Jean	Gulf/Southwest	Texas	Environment
Leventakis	Mano	All	All	Real Estate
Levy	Dan	Southeast	Miami Metro	Environment
Lichtman	Roger S.	All	National B+P	Buildings + Places
Lindgren	Elliott	Northeast	Philadelphia Metro	Transportation
Litzinger	Millette	West	West	Transportation
Lobdell	Eddie	Southeast	Mid-Southeast	Transportation
Lonkevych	Mark	West	West	Energy
Lopez	Rebecca E.	All	All	Support/Cross Services/Procurement
Lopez	Wendy	Central	Central	Transportation
Lorek	Paul Peter	Southeast	Baltimore	Transportation
Loui	Rae M.	Pacific	Hawaii-Guam	Water
Louis	Frank	Central	Central	Buildings + Places
Lovell	Cecilia Meyer	LA Metro	LA Metro	Environment
Lowe	Robert	NY Metro+	NYC Metro	Transportation
Lujan	Ross	Central	Central	Transportation
Lupo	Domenic	LA Metro+	LA Metro	Transportation
Luty	Joseph	NY Metro+	NYC Metro	Environment
Lutz	Jennifer	Southeast	Mid-Atlantic	Transportation
Luyten	Chuck	Gulf/Southwest	Denver Metro	Environment
Lyles	Vance M	Midwest	Eastern Midwest	Buildings + Places
Lynch	David	DC Metro+	DC Metro+	Transportation
Mac Allen	Thomas C	NYC Metro	NYC Metro	Water
MacEwan	Mark	DC Metro+	DC Metro	Environment
MacGregor	Alastair	All	Technical Excellence	B+P
Maher	Gary	Gulf/Southwest	Gulf/Southwest	National Government
Maia	Decio	Southeast	Rio de Janeiro	Environment
Majzoub	Jason	LA Metro	LA Metro	Transportation
Malacarne	Charles P.	Southeast	Southeast	PPM
Manker	Will	Pacific	LA Metro+	Environment
Mann	Jeffrey Glenwood	Southeast	North Carolina	Transportation

Mann	Manning C.	All	All	Procurement FBS Contracts
Manojlovski	Danny B.	Central	Central	Transportation
Mardambek	Anthony T	Central	Central	Water
Margevicius	Anthony T	All	National Water	Water
Mariano	Christopher	All	All	Environment
Marion	Daniel	Southeast	Southeast	Environment
Marr	Thomas James	All	All	Environment
Marshall	Amy	All	National Environment	Environment
Marshall	Timothy R.	Pacific	LA Metro+	Environment
Martinez	Gregory J.	West	West	Building + Places
Martysz	Ivan	Central	Central	Water
Mascaro	Rodrigo	Southeast	Latin America	Transportation
Matthews	Patricia A. (Patty)	Central	Central	Water
Matty	Stephen	DC Metro	DCS	Transportation
Maurier	Tim	LA Metro	LA Metro	Transportation
May	Michael R.	Central	Central	Water
Mayfield	Michelle	Southeast	Mid-Southeast	Environment
Mayo	Jim	Southeast	Greater Florida/Latin America	Environment
Mazzocco	Elizabeth	All	All	Support/Cross Services/Procurement
Mazzone	Joseph F.	All	All	Support/Cross Services/Procurement FBS Contracts
McCauley	Robin B	All	All	Support/Cross Services/Procurement
McCarthy	Mike	Northeast	New England	Transportation
McCarty	Diane	Gulf/Southwest	Denver Metro	Environment
McClelland	Scott	DC Metro+	DC Metro	Environment
McCollom	Patrick M.	Pacific	LA Metro	Transportation
McConnell	Marc	ENV Programs	Oil & Gas	Environment
McCrary	Rod	Central	Central	Water
McDermott	Christopher	Northeast	Northeast	PPM
McDonald	Douglas C	All	All	Support/Cross Services/Procurement
McElroy	Jennifer L.	Central	Central	PPM
McFall	Wayne	Southeast	Mid-Atlantic	Transportation
McGill	Michael	All	All	Environment

McGuire	Chris	Southeast	Mid-Atlantic	Transportation
McKelvie	Daniel	LA Metro+	LA Metro	Transportation
McKinney	Michelle	All	All	Support/Cross Services/Procurement
McMullen	Lynne M.	DC Metro+	DC Metro+	Environment
McPherson	Thomas	Northeast	NY Metro	Water
McQuerrey	Penelope	All	All	Support/Cross Services/Procurement
Meiri	David	Midwest	Chicago Metro	Environment
Mejeur	Randy	Southeast	Greater Florida	Buildings + Places
Mekarski	Brian	Southeast	Greater Florida	Transportation
Mello	Vincente P de	Latin America	Latin America	Water
Mendez	Carlos	Southeast	Latin America	Power and Industrial/Oil & Gas
Mendoza	Fabian E., Jr.	Southwest	Greater Southwest	Water
Mengale	Suhas	Southeast	Southeast	PPM
Mengden	Robert J. (Bobby), Jr.	Southwest	Greater Southwest	Water
Mercurio	Etty L.	Pacific	Pacific	Transportation
Merin	Ira S.	ENV Programs	Oil & Gas	Environment
Mesbah	Masood	Pacific	Greater Northern California/Pacific	Water
Mestas	Teresa (Terri) C.	West	West	Building + Places
Michel	Robert M	NY Metro+	NYC Metro	Environment
Mikaelian	Scott	Environment	Industrial	Environment
Miller	Bruce G.	All	All	Support/Cross Services/Procurement
Miller	Mary	Gulf/Southwest	Houston Metro	TX Gulfcoast/Midstream O7G
Miller	Matthew	Southeast	Southeast	Buildings + Places
Miller	Scott D.	Central	Central	Water
Miller	Shane M.	Central	Central	Water - PTO
Mitchell	David	Pacific	San Francisco Bay Area Metro	PPM
Mockus	Chris	LA Metro+	LA Metro	Transportation

Mod	Mark	West	West	Support/Cross Services/Procurement
Moman	Annika	All	NA - ENE - Opco Mgmt (996)	Energy
Moon	James	West	West	Power
Morecraft	Andy	All	Kinder Morgan	Oil & Gas
Moriarty	Michael	All	National Energy	National Energy
Moriconi	David	Southeast	DC Metro+	Transportation
Morin	Stacy	Southeast	DC Metro+	Transportation
Mosquera	Justin	All	All	Environment
Moura	Juliana	Southeast	Brazil	
Moy	Get	All	FEMA	PPM
Mroczka	Gary	Central	Central	Transportation
Mullins	Jennifer L.	All	All	Support/Cross Services/Procurement FBS Contracts
Mumford	Jason	DC Metro+	DC Metro	Transportation
Murphy	Tim	Pacific	Greater Southern California	Environment
Mustoe	Brett	Gulf/Southwest	Southwest	Environment
Myers	Ken	Pacific	Greater Northern California	Water
Myers-Graham	Beth	Midwest	Commercial	Power and Industrial, Environment
Myller	Brian	Gulf/Southwest	Denver Metro	Environment
Nader	Kamran	Southeast	Mid-Atlantic	Transportation
Nakasone	Martin	Pacific	Hawaii-Guam	B+P/Transportation
Namur	Ida	Southeast	Mid-Atlantic	Power & Industrial
Naperala	Troy	Central	Central	Water
Nash	Joy	All	All	Support/Cross Services/Procurement
Naughton	Timothy R.	Pacific	Pacific	Environment
Naulty	Patrick T.	All	All	Procurement FBS Contracts
Neese	William	Gulf/Southwest	Southwest	Environment
Nelsen	Bill	Southeast	Greater Florida	Transportation
Nelson	Jeff	Midwest	Eastern Midwest	Environment
Niederreither	Mike	Northeast	Philadelphia Metro	Environment

Niemuth	Jon	All	NA - B+P National Business Line (991)	Buildings + Places
Nino	Jaime	Southeast	Latin America	Support/Cross Services
Niro	Achille	NY Metro+	NYC Metro	Transportation
Nixon	Robert	West	West	Water
Noble	Donna M.	All	All	Support/Cross Services/Procurement FBS Contracts
Nolan	Kristopher	Environment	Industrial	Environment
Norton	Brian	Northeast	New England	Water
Nottage	Natalie	All	All	Environment
Obertino	Jennifer L.	Midwest	Central Midwest	Environment
O'Connell	Keith	Pacific	Pacific Northwest	Environment
O'Connor	John	Central	Central	Support/Cross Services
O'Connor	Tom	NY Metro+	NYC Metro	Transportation
Okes	Scott	DC Metro+	DC Metro	Buildings + Places
O'Konski	Al	DC Metro+	DC Metro	Buildings + Places
Oliver	Sherry L.	All	All	FCAP
Onderak	Eric Dale	Central	Central	Water
Oosterhoudt	James	Environment	Industrial	Environment
Orlin	Bob	All	All	Support/Cross Services
Osantowski	Richard A	Central	Central	Water
Ospina	Jose	Southeast	Latin America	Environment
Oswalt	Daven	DC Metro+	DC Metro	Water
Ouansafi	Michele L.	All	All	Support/Cross Services/Procurement FBS Contracts
Overly	James G	All	All	Support/Cross Services/Procurement
Owens	Loretta T	All	All	Support/Cross Services/Procurement
Page	Molly	Central	Central	Water
Palacio	Ed	Southeast	Greater Florida	Transportation
Panciera	Matthew	ENV Programs	Chemicals & Industrial	Environment
Parikh	Anil	NY Metro	NY Metro	
Parkinson	Ken	Southeast	Southeast Sub Bus Line Support	Transportation

Parsons	Jeffrey P.	All	All	Procurement FBS Exec
Patnaude	David M.	Northeast	Northeast	Transportation
Patorno	Mike	Central	Central	Water
Patterson	Robert (Brent)	Central	Central	Transportation/ CM/CEI
Payne	DeAnn N.	All	All	Support/Cross Services
Paznokas	Steve	All	National Government	National Government
Peapully	Krishna	Central	Central	Transportation
Peninger	Paul	West	West	Buildings + Places
Pepple	Nathan	Central	Central	Buildings and Places
Peter	Jim	All	National Government	National Government
Peters	Linda	Pacific	SF Metro	Planning
Peterson	Jamie	Pacific	Legal	
Pettigrew	Robert	All	All	Environment
Petto	Steve	Pacific	Gas Utilities	Power & Industrial
Philipsborn	Jon	All		Environment
Pickard	Samuel A.	Northeast	Northeast	Transportation
Pierre	Terry	West	West	Support/Cross Services/Procurement
Pietryka	Brian	Southeast	Mid-Atlantic	Transportation
Pinisetti	Kamalesh	Gulf/Southwest	Rocky Mountain Area	Environment/National Gov
Porterfield	Jon	Pacific	SF Metro	PPM
Post	John (Bob)	Pacific	Pacific Northwest/Northern California	Transportation
Preboske	Mike	Central	Central	Transportation
Pressdee	Jonathan	All	All	Water
Price	Donald	All	All	Environment
Price	Patrick	All	Akk	Support/Cross Services/Procurement
Prince	Robert (Bobby)	DC Metro+	DC Metro	Transportation
Proctor	Michael	DC Metro+	DC Metro	Water
Pugh	Lucy	All	NA - WAT Opco Mgmt (940)	Water
Punyamurthula	Sujan	Pacific	Northern California	Water

Quaranta	Thomas	NY Metro+	NYC Metro	Transportation/PPM
Quiat	Ira	All	National Transportation	Transportation
Quinn	Barry	Southeast	Mid-Southeast	Transportation
Raab	Michelle	Gulf/Southwest	Houston Metro	Environment
Rae	David	Southeast	Greater Florida	Transportation
Raley	Terence C.	All	All	Procurement FBS Exec
Randall	David	All	All	Environment
Rauen	Bill	Southeast	Mid-Atlantic	Buildings + Places
Reece	Courtney	Gulf/Southwest	Texas/Gulf Coast	Environment
Reece	Dennis	Gulf/Southwest	Gulf Coast	Environment
Reese	Edward E.	Northeast	Greater Pennsylvania	Transportation
Reish	Sean M.	Central	Central	Buildings + Places
Renville	Todd	Midwest	Central Midwest	Environment
Rice	Kerry	DC Metro+	DC Metro+	Water
Richardson	Carl	Central	Central	Water - PTO
Richer	James	All	Global Environment	Environment
Riddle	Joe	Southeast	Carolinas/Tennessee/ Georgia/AL	B+P
Ringsmuth	Todd	Central	Central	Water
Ringwald	Robert W.	Central	Central	Transportation
Rivas	Rey	Southeast	Greater Florida	Transportation
Rivers	Robert	Central	Central	Water
Roberts	Renee	DC Metro+	DC Metro	Environment
Roberts Jr	Thomas William	Central	Central	PPM
Robinson	Michelle J.	All	All	Transportation
Robinson	Lew	DC Metro+	DC Metro	B+P
Robinson	Steven	Central	Central	Buildings + Places
Robison	Lilian	All	NA - WAT Opco Mgmt (940)	Water
Roden	David	DC Metro+	DC Metro	Transportation
Rohrer	William	Pacific	Pacific Northwest	Environment
Rokoff	Mark	All	NA - Corporate US	Power & Industrial
Roldan	Andres	LA Metro+	LA Metro	Transportation
Romig	Richard	Central	Central	Transportation
Rondinello	Lou	NY Metro+	NYC Metro	Transportation
Rosen Smith	Sheryl	Midwest	Midwest	Environment

Ross	Aisha Z.	All	All	Procurement FBS Contracts
Rousseau	Sean	DC Metro+	DC Metro	Transportation
Royer	Todd	Midwest	Eastern Midwest	Environment
Rubino	Nicholas	Northeast	New England	Transportation
Rubio-Escobar	Diana C	All	All	Support/Cross Services/Procurement
Rudd	Michael (Mike)	Southwest	Greater Southwest	Transportation
Ruiz	Pablo C.	Central	Central	Support/Cross Services
Ryan	David W.	Northeast	New England	Transportation
Ryan	Keith	NY Metro+	NYC Metro	Environment
Ryan	Mark E	Central	Central	Transportation
Ryan	Tim	Southeast		Transportation
Sala	Keith	Northeast	Philadelphia Metro	Transportation
Salinas	Rigo	Central	Central	PPM
Samuels	Kelley Jeanne	Southeast	DC Metro	Environment
Sands	Rick	All	NA - Corporate US	Power & Industrial
Sauls	Larry	Southeast	Greater Florida	Transportation
Sawaya	Mario R.	All	All	Corporate
Sawitzki	David G.	Southeast	Southeast	Water
Sax	Maria Z.	Midwest	All	Water
Scerbo	Tom	NY Metro+	NYC Metro	B+P
Scherpf	Robert	Northeast	Northeast Sub Bus Line Support	Water
Schilling	William R.	Central	Central	Transportation
Schindel	Douglas W.	Central	Central	Transportation/Water
Schmidt	Marty	All	BP	Oil & Gas
Schoenwolf	Adrienne	DC Metro+	DC Metro+	Water
Schofield	Lea Ann	All	All	Support/Cross Services/Procurement
Schug	David	Pacific	Greater Southern California	Power & Industrial
Schwalbach	John E	Central	Central	Transportation
Searl	Susanne M.	All	All	Support/Cross Services
Seibert	Tracy	East Penn Project	East Penn Project	Environment
Servetas	Dan	Northeast	Greater New York - Pennsylvania	Environment
Setzko	Dennis	Northeast	New England	Water

Seward	Donald	Southeast	Mid-Atlantic	Environment
Sewell	William	DC Metro+	DC Metro+	PPM
Shanahan	Kevin	NY Metro	NY Metro	Environment
Shannon	Michael T	Northeast	Philadelphia Metro	Environment
Shareef	Gunseli	All	National Power and Industrial	Power & Industrial
Sheehan	Crystal	All	All	Support/Cross Services/Procurement
Shemo	Neil	Northeast	Pennsylvania	Transportation
Shileikis	Dale	All	All	Environment
Shleyger	Liliya	All	All	Support/Cross Services
Shoemaker	Mike J.	Pacific	Northwest	Environment
Shreve-Gibb	Betsy	Northeast	Northeast Sub Bus Line Support	Water
Shrodes	Christopher	Central	Central	Buildings + Places
Shulters	Jacqueline	West	West	Water
Shumpert	Derrick S.	All	DCS Americas	All
Siegel	Ruby	NY Metro+	NYC Metro	Transportation
Sikora	John	Central	Central	Water
Silvers	Brian	Central	Central	All
Simmler	Lee Anne	All	All	Environment
Simmons	Deb	Northeast	New England	Environment
Simpson	Dennis	DC Metro+	DC Metro+	Transportation
Simpson	Randy	Gulf/Southwest	Southwest	Transportation
Singletary	James P	All	National B+P	Buildings + Places
Singley	Charles E.	All	All	Support/Cross Services/Procurement FBS Contracts
Slade	Patti	Southeast	Mid-Southeast	Environment
Smerage	Jeremy	W. Canada/Toronto Metro+	Western Canada - Mountain States	Transportation
Smiley	Jerry	Gulf/Southwest	Dallas/Ft. Worth Metro	Environment
Smith	Christopher Charles	Southeast	Mid-Southeast	Business + Places
Smith	Craig J.	Pacific	Pacific	Water
Smith	Sheryl	Midwest	Eastern Midwest	Environment
Smith	Ronald	DC Metro+	DC Metro+	Water
Smyth	Nicholas A	Pacific	San Francisco Bay Area Metro	PPM

Solberg	Bill (William)	Environment	Industrial	Environment
Somerville	John	All	National Government	National Government
Somerville	Paul	LA Metro+	LA Metro	Environment
Song	Jiongjiong (John)	Central	Central	Transportation
Sosa	Ray	LA Metro+	LA Metro	Transportation
Soukup	Jim	All	National Transportation	Transportation
Spaventa	Nicholas	NY Metro+	NYC Metro	Transportation
Spencer	Julie A	All	All	Environment
Spera	Michael L	NY Metro+	NYC Metro	Environment
Sprague	Warren	LA Metro	LA Metro	Transportation
Squire	James (Rich)	Central	Central	Transportation
Stahl	David	Central	Central	Construction
Stannard	Keith	Southeast	Greater FL/Latin America/Miami Metro	Power and Industrial/Oil & Gas
Stark	John J.	All	All	Support/Cross Services
Steele	Tamela K.	All	All	Support/Cross Services
Stenberg	Laurie	DC Metro+	DC Metro	Environment
Stevens	Noelle Dawn	All	All	Support/Cross Services/Procurement
Stiller	Michael	All	All	Environment
Stinson	Beverley	All	Wastewater	Water
Stobbie	Brian	NY Metro+	NYC Metro	Transportation
Stockton	Richard	Central	Central	Transportation
Stoikoff	Jason	West	West	Buildings + Places
Stone	Lisa G.	All	All	Support/Cross Services/Procurement
Storella	Paul	NY Metro+	NYC Metro	Water
Straus	Alan	Southeast	Mid-Atlantic	Chief Operations Office (COO)
Strickland	Janet	Central	Central	Water
Stroh	Steve	All	Complex Bridges	Transportation
Strohecker	Alanna	All	All	Transportation
Sturn	Richard	Environment	Industrial	Environment
Suarez	Regina	Southeast	Puerto Rico	Buildings + Places
Suhre	Joseph	Midwest	Eastern Midwest	Environment

Sulerzyski	David	Southeast		Transportation
Swearingen	Emily Fox	Southeast	Mid-Southeast	Transportation
Sweitzer	Sherry Lynn	West	West	PPM
Swider	Dawn	Midwest	Chicago Metro	Environment
Taavola	Daryl J	Central	Central	Transportation
Taddeo	Carol-Anne	Northeast	New England	Environment
Takacs	Patricia	All	All	All
Tammi	Carl	Northeast	New England	Environment
Tarara	Andrew J.	ENV Programs	Oil & Gas	Environment
Taylor	Amanda	Southeast	Mid-Southeast	Environment
Taylor	Michael Joseph	Southeast	Mid-Southeast	Water
Taylor	Randall	Southeast	Carolinas/Tennessee	
Taylor	Stephanie	All	All	Environment
Teacle	Val	All	All	Procurement
Tehrani	Touraj (Tom)	NY Metro+	NYC Metro	Transportation
Tennant	Doug	Southeast	Carolinas/Tennessee	Transportation
Thibault	Scott	Northeast	New England	Water
Thomas	Douglas K.	All	All	Support/Cross Services/Procurement
Thomas	Michael A.	Midwest	Central Midwest	Environment
Thompson	Raymon	All	All	FBS Exec
Thompson	Richard	All	Project Performance	B+P
Thonen	Terrance L	Midwest	Central Midwest	Environment
Tiedeman	Janie	DC Metro+	DC Metro+	Transportation
Tiernan	Christine	NY Metro+	NYC Metro	Transportation
Toms	Edwin	Central	Central	Water
Toomey	Landon C.	All	All	All
Torres	Carlos	Southeast	Carolinas/Tennessee	Federal Construction
Totillo	Bob	NY Metro+	NYC Metro	Transportation
Treat	Matthew B.	Pacific	Pacific	B+P
Trippe	Gregory M.	All	All	Procurement FBS Contracts
Tronel	Claire	Southeast	Southeast	Transportation
Tsai	Steve	All	National Government	National Government
Tubman	John	All	National Government	National Government
Tull	Steven	Northeast	Philadelphia Metro	Environment
Turk	Dave	Central	Central	Water
Turley	Bob	Pacific	Northern California	Power & Industrial
Turner	Michael	DC Metro+	DC Metro+	Transportation

Tyrrell	Terry W.	Central	Central	Transportation
Ulukaya	Matt	LA Metro+	LA Metro	Transportation
Unger	Petra	Pacific	Greater Northern California	Environment
Ungerer	Janet	Southeast	Mid-Atlantic	Transportation
Urlich	Cecil	Pacific	Pacific Northwest	Support/Cross Services
Vaccari	Mitch	Pacific	Greater Northern California	PPM
Van Den Berg	Harm (Harry)	Pacific	LA Metro+	Environment
Vannest	Tracey	All	Dow Chemical, Blue Cube, Olin	Oil & Gas
Vargas	Juan	Central	Central	Water
Veltri	Lorraine	Southeast	Southeast	Water
Vicar	Darren	Southeast	Southeast	Buildings + Places
Vierheilig	Kim	Northeast	Northeast	Buildings + Places
Volk	John	Northeast	Philadelphia Metro	Transportation
Volz	Tim	Central	Central	Water
Wacker	Earl	All	National Transportation	Transportation
Wagner	Jeffry	Southeast	Greater Florida	Environment
Walker	Greg	Pacific	Pacific Northwest	Transportation
Walker	Kimber Lee	All	All	All
Walther	Kimberly R.	All	All	Support/Cross Services/Procurement
Wanyoike	Crispin	LA Metro+	LA Metro	Environment
Warf	Jennifer	DC Metro+	DC Metro+	Environment
Wasteneys	Colin	NY Metro+	NYC Metro	Environment
Watson	David C	West	West	PPM
Watson	Matthew	Southeast	Mid-Atlantic	Environment
Weaver	David	Southeast	Mid-Atlantic	Transportation
Weaver	Ryan	Central	Central	Transportation
Weber	Deanna M	West	West	Buildings + Places
Webler	Jim	Southeast	Mid-Atlantic	Transportation
Weeks-Chmura	Laurie	All	All	Support/Cross Services/Procurement
Wellington	Bradley	DC Metro+	DC Metro	Buildings + Places
Wengler	Frank	All	NA - TRANS Opco Mgmt (937)	Transportation

Wernig	Carole M.	All	All	Support/Cross Services/Procurement
West	Joe	Southeast	Mid-Atlantic	Environment
Whalen	Timothy J.	Central	Central	Transportation
Wherritt	William (Bill)	LA Metro	LA Metro	PPM
White	Timothy	Central	Central	Water
Whitton	Landon	Central	Central	Transportation
Widdison	Edwin B. (Blake)	All	All	All
Wilcox	David	Southeast	Greater Florida	Water
Wilkerson	William	Pacific		PPM
Williams	Linda	Gulf/Southwest	Houston Metro	Environment
Williams	Jennifer L.	Central	Central	Water
Williamson	Jeff	All	Regional Leader	National Government
Willson	Lane	Southeast	Mid-Atlantic	Environment
Winegard	Mike	Central	Central	Water
Wolf	Christopher	Central	Central	Environment
Wolf	Paul	All	All	Support/Cross Services/Procurement FBS Contracts
Wolsfeld	Richard P.	All	All	Transportation
Wong	Derrick	Pacific	San Francisco Bay Area Metro	Water
Wong	Noel C	Pacific	San Francisco Bay Area Metro	Water
Wood	Grace	Southeast	NC/SC/TN/GA/AL, Environment GA/AL	
Wood	David M.	Southeast	DCS	Water
Wood	Mike	DC Metro+	DC Metro	Buildings + Places
Wood	Tatiana M.	All	All	Support/Cross Services/Procurement
Woods	Tom	DC Metro+	DC Metro	Buildings + Places
Workman, Jr.	Gerald S.	Southeast	Southeast	Environment
Wright	Keith	All	All	Support/Cross Services/Procurement
Wright	Robert	Northeast	New England	Transportation
Wuttig	Mark O.	Pacific	Pacific	Environment
Wyrick	Robert	Southeast	Mid-Southeast	Environment

Yang	Wendy H.	Pacific	Orange	Buildings + Places
Yarnish	John J.	Pacific	Pacific	Transportation
Yates	Greg	Northeast	New England	Transportation
Yenne	Lisa	Central	Central	Water
Young	Richard A.	Central	Central	Transportation
Young	Laura A.	Pacific	Alaska	Environment
Zafonte	Joseph	NY Metro+	NYC Metro	Support/Cross Services
Zagol	Eric	Pacific	SF Metro	Water
Zebley	Margaret C.	Gulf Southwest Region	Rocky Mountain Area	Environment
Zimmerman	Jim	DC Metro+	DC Metro	Environment

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 2a** **PRESENTER: Michael Burrows, Chief Executive Officer**

SUBJECT: INFORMATIONAL ITEMS – CHIEF EXECUTIVE OFFICER'S REPORT

SUMMARY

An oral report will be provided at the time of the meeting.

PREPARED BY:	Michelle Casey
CERTIFIED AS TO AVAILABILITY OF FUNDS:	N/A
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

None.

Attachments:

1. None.

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 2b** **PRESENTER: Catherine Pritchett, Director of Administration**

SUBJECT: INFORMATIONAL ITEMS – POLICIES AND PROCEDURES UPDATE

SUMMARY

An oral report will be provided at the time of the meeting.

PREPARED BY:	Catherine Pritchett
CERTIFIED AS TO AVAILABILITY OF FUNDS:	N/A
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

None.

Attachments:

1. PowerPoint Presentation.

San Bernardino International Airport Authority

Policy and Procedures Update

February 2023

San Bernardino International Airport Authority
2023 Policy and Procedure Update

Throughout the year modifications are made to SBIAA Policies and Procedures to ensure they are consistent with State and Federal laws, Board adopted operating policies and actual business activities. Modifications made this past year are below:

Subject	Adjustment
Bereavement	Changes to State law increased from 3 to 5 days of leave
Background and Badging	Modifications consistent with Federalization of airfield
Job Posting	SB 1162 regarding pay transparency
CFRA	AB 1041 Expands sick leave to “Designated Persons”
IT Policy	Internal alignment and expansion of IT Department
Notice of Violation Policy	Provides consistent compliance expectations and for all with AOA access

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 2c** **PRESENTER: Michael Burrows, Chief Executive Officer**

SUBJECT: INFORMATIONAL ITEMS – BREEZE AIRWAYS LAS VEGAS LAUNCH

SUMMARY

An oral report will be provided at the time of the meeting.

PREPARED BY:	Michelle Casey
CERTIFIED AS TO AVAILABILITY OF FUNDS:	N/A
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

None.

Attachments:

1. None.

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 2d** **PRESENTER: Mark Gibbs, Director of Aviation**

SUBJECT: INFORMATIONAL ITEMS – REPORT ON FEDERAL AVIATION ADMINISTRATION (FAA) EMERGENCY EXERCISE

SUMMARY

An oral report will be provided at the time of the meeting.

PREPARED BY:	Jennifer Farris
CERTIFIED AS TO AVAILABILITY OF FUNDS:	N/A
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

None.

Attachments:

1. None.

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 3** **PRESENTER: Mark Cousineau, Director of Finance**

SUBJECT: REGISTER OF DEMANDS FOR JANUARY 2023

SUMMARY

SBIAA's Register of Demands for January 2023.

RECOMMENDED ACTION(S)

Receive for information.

FISCAL IMPACT

Various accounts as shown.

PREPARED BY:	Mark Cousineau
CERTIFIED AS TO AVAILABILITY OF FUNDS:	Mark Cousineau
APPROVED AS TO FORM AND LEGAL CONTENT:	N/A
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

The attached Register of Demands corresponds to checks issued in the month of January 2023. The total of the register is $8,458,843.74.

Fuel: Titan Aviation Fuels was paid $6,196,431.97 for aviation fuel to re-sell at the Luxivair-SBD. Merit Oil Co. was paid $39,965.92 to operate SBIAA vehicles and for resale at Luxivair-SBD.

Employee Benefits: Kaiser Foundation Health Plan Inc. and Legal Shield Services Inc. were paid a total of $56,861.26.

Utilities: Burrtec Waste Industries Inc., City of San Bernardino Water Department, East Valley Water District, Frontier Communications Corporation, Granite Telecommunications, Edison, The Gas Company, Underground Service Alert of Southern Cal, and Utility Telecom Group LLC, were paid a total of $153,384.88.

Capital Projects Cost: Aecom Technical Services Inc., CJMC Holdings LLC., Cordoba Corporation, Goss Construction Company Inc., Griffith Construction, and Leonida Builders Inc. were paid a total of $1,479,789.76.

Professional Services: AEC Moreno Corp.; Allawos & Company; Boston Fox Tigue International LLC.; Coffman Associates Inc.; Converse Consultants; David Turch and Associates; Eide Bailly LLP.; Hernandez, Kroone & Associates Inc.; Imagine Systems Inc.; Innovative Federal Strategies LLC; Ludwig Engineering Associates Inc.; Mead & Hunt Inc.; Right Energy Group; and Tom Dodson & Associates were paid a total of $100,907.27.

Attachments:

1. January 2023 Register of Demands for the February 22, 2023 Commission Meeting
2. VISA breakdown - January 2023

San Bernardino International Airport Authority
Register of Demands for Commission Meeting
2/22/2023

Line	Company Name	Description	AP Register
1	A/C Mechanical Inc.	HVAC system maintenance and repairs	5,670.12
2	ADB Safegate Americas LLC	Airfield lights and fixtures	1,379.70
3	ADT LLC	Burglar and fire alarm monitoring	1,618.47
4	AEC Moreno Corp.	Professional services construction-drawings floor concession plans of upper level bar & kitchen / restaurant	8,550.00
5	Aecom Technical Services Inc.	Taxiway shoulder improvement project and runway joint and spall repair project	73,284.64
6	Affordable Auto Service	Smog checks	600.00
7	Air Nav LLC	Advertising	8,128.00
8	Allawos & Company	Professional consulting services-solar and green energy services	2,362.50
9	Alliant Insurance Services Inc.	Insurance premiums and broker fees	1,203.60
10	Amazon Capital Services Inc.	Purchases of supplies and goods	3,578.17
11	American Association of Airport Executives	Staff membership renewals-OPS	550.00
12	American Rental Inc.	Equipment rental and tools	164.86
13	Audacy Operations Inc.	Radio advertising KGROG-Las Vegas flights	25,000.00
14	Aviatrix Communications LLC	Professional services marketing and advertising and Good Neighbor Program	10,253.75
15	Babcock Laboratories Inc.	Stormwater analysis testing	311.00
16	Bernell Hydraulics Inc.	Hydraulic hose repairs & supplies	89.17
17	Boston Fox Tigue International LLC	Marketing services	16,619.75
18	Burrtec Waste Industries Inc.	Trash removal services	7,654.45
19	C & A Janitorial Services	Janitorial services	27,058.14
20	CatapulkK12	Subscription WeTip reporting service for employees	749.00
21	CED-Consolidated Electrical Distributor	Electrical repairs and supplies	7,127.20
22	Cintas Uniforms	Uniform and rug services	4,883.75
23	City of San Bernardino Water Department	Water and sewer services	12,362.85
24	CJMC Holdings LLC	Professional services - capital project management services	5,100.00
25	Climatec LLC	Security system maintenance and repair upgrades	28,957.64
26	Coffman Associates Inc.	Professional services-airport planning and environmental assessment	2,000.00
27	Converse Consultants	Lead base paint survey-bldg.56	2,668.00
28	Cordoba Corporation	Airport remote parking lot paving project - Ashley	1,260.00
29	Damion Casarez	Boot reimbursement	155.00
30	Dans Lawnmower Center	Small equipment repairs and landscape supplies	372.85
31	David Turch and Associates	Professional services agreement - lobbying services	10,000.00
32	DBT Transportation Services LLC	ILS/AWOS tower equipment service	3,476.25
33	Dibs Safe & Lock Service	Rekeys, duplicate fees, cylinders and hardware installed	590.52
34	East Valley Water District	Water service	162.51
35	Eide Bailly LLP	Professional audit services	25,000.00
36	Ewing Irrigation Products Inc.	Commercial irrigation supplies and repairs parts	1,606.83
37	Express Printing Signs and Tees	Silk screening of safety vests	112.01
38	Express Quality Car Wash	Security department fleet vehicle car washes	542.76
39	Ford Credit Company	Monthly lease payments for Luxivair-SBD courtesy vehicles	1,943.44
40	Franks Fence & Supply Co. Inc.	Chain link fence materials	69.60
41	Frontier Communications Corporation	Telephone services	3,600.06
42	GMSTEK LLC	Monthly subscription fee for point of sale system	1,485.72
43	Goss Construction Company Inc.	Runway joint & spall repair project	291,059.55
44	Grainger	Parts and supplies for building repairs	2,880.90
45	Granite Telecommunications	Telephone services	4,468.70
46	Green Facility Cleaning LLC	Solar panel cleaning-terminal	3,495.00
47	Griffith Construction	Taxiway shoulder improvement project	1,080,801.90
48	Hernandez, Kroone & Associates Inc.	Professional engineering - on call surveying services	1,866.75

San Bernardino International Airport Authority
Register of Demands for Commission Meeting
2/22/2023

Line	Company Name	Description	AP Register
49	Human-I-T	Security wipe old hard drives plus transport	400.00
50	Imagine Systems Inc.	Professional consulting services	4,311.19
51	Ingersoll Rand Company Industrial Tech	Replace thermostatic valve-bldg.763 compressor	3,082.98
52	Innovative Federal Strategies LLC	Professional service agreement-federal legislative advocacy services	2,000.00
53	Institute of the Americas	Sponsorship for USMCA meeting 01/2023 San Diego	3,750.00
54	K&L Hardware and Plumbing Supply Inc.	Maintenance tools and supplies	652.38
55	Kaiser Foundation Health Plan Inc.	Employee medical benefits	53,484.26
56	Ken Grody Ford Redlands LLC	Fleet vehicle parts and services	3,282.22
57	Lawson Products Inc.	Maintenance , repair and operations supplies & equipment	949.43
58	Legal Shield Services Inc.	Employee legal group benefits	3,377.00
59	Leonida Builders Inc.	Project for interior concessions 2nd floor	28,283.67
60	Ludwig Engineering Associates Inc.	Professional engineering services	1,810.00
61	Lumacurve	Airfield signs, replacement bulbs & parts	342.84
62	Mackinac Software LLC	AWOS weather reporting system service	178.00
63	Mar-Co Equipment Company	Parts and service for Tymco Sweeper	67.07
64	Mark Christopher Chevrolet Inc.	Purchase (2) 2022 Chevrolet Colorado utility vehicles for maintenance department	74,975.67
65	Marlin Martinez	Travel NBAA Schedulers & Dispatchers Conference 01/2023 Nashville TN. Per-diem	402.60
66	Mead & Hunt Inc.	Professional consulting service agreement-providing air services	12,660.00
67	Merit Oil Company	Fuel inventory for fleet operations	39,965.92
68	Michael Merry	Boot reimbursement	172.91
69	Mirau Edwards Cannon Lewin & Tooke LLP	Professional legal services agreement	1,109.08
70	Misael Lopez Arvizu	Pesticide license reimbursement	180.00
71	Monette Mendoza	Travel NBAA Schedulers & Dispatchers Conference 01/2023 Nashville TN. Per-diem	402.60
72	Ontario Chamber of Commerce	Annual membership-M. Burrows	3,000.00
73	Parts Authority Metro LLC	Vehicle parts and service supplies	3,126.30
74	PeopleReady Inc.	Provide temporary employees - SBD Airport	4,737.00
75	Pete's Road Service Inc.	Vehicle repairs and parts	9,851.59
76	Petty Cash - Reshma Rajan	Petty cash custodian reimbursement for miscellaneous supplies and	722.91
77	Pitney Bowes Global Financial Services	Leasing fees- postage machine	225.70
78	PrintGlobe LLC	Custom cups for Luxivair SBD	6,275.00
79	ProDIGIQ Inc.	Customized management software systems including software systems	12,650.00
80	RDO Equipment Co	John Deere parts and service	2,386.29
81	Right Energy Group	Professional agreement for Green Energy Programs	9,500.00
82	Robert Terrell	BSIS reimbursement-live scan firearms qualification and firearms application	505.50
83	Sign Industries Inc.	Roadway signs	13,959.93
84	Southern California Emergency Medicine	New employee drug screening, Covid test and urgent care visits	45.00
85	Southern California Edison	Electric power	112,478.83
86	Staples Contract & Commercial LLC	Office supplies	442.95
87	Sunwest Printing Inc.	Printing-business cards, posters, brochures, printing projects, etc.	165.30
88	SWRCB	Storm water permit fees	1,738.00
89	Sysco Riverside Inc.	Hospitality bar supplies - Luxivair-SBD	5,787.60
90	TELOS ID	TSA background checks and fingerprinting processing	2,111.25
91	Terrell Bowie	Travel AAAE Aviation Security Summit 12/2022 Washington DC-transportation and baggage fees	316.78
92	The Gas Company	Gas services	8,149.78
93	The Pitney Bowes Reserve Account	Postage fees	158.99

San Bernardino International Airport Authority
Register of Demands for Commission Meeting
2/22/2023

Line	Company Name	Description	AP Register
94	Titan Aviation Fuels	Jet A and Avgas fuel inventory purchases	6,196,431.97
95	Tom Dodson & Associates	Professional services to work pertaining to environmental	450.00
96	Toofon Inc.	Drone product software license and service agreement	3,369.55
97	Trilogy Medwaste West LLC	Waste disposal service for international flights	1,599.19
98	Underground Service Alert Of Southern Cal	Notification system for underground utilities	31.00
99	UniFirst	First aid kit refills and replace AED units	532.05
100	United Site Services	Fence rental-Bldg. 759 parking lot	2,540.22
101	US Custom & Border Protection	Customs contract and inspection fees	2,656.83
102	US Customs & Border Protection	Customs quarterly service fees for airport program	56,259.28
103	Utility Telecom Group LLC	Data Ethernet & phone service-bandwidth & telephone services	4,476.70
104	VFS Fire & Security Services	Photography / Videography services	11,100.00
105	VISA	Office supplies, airport supplies and services, and Luxivair SBD supplies, services, and incidentals	41,422.42
106	Wendy Bechtel	Travel NBAA Schedulers & Dispatchers Conference 01/2023 Nashville TN. Per-diem	402.60
107	West Coast Lights and Sirens Inc.	Diagnostic repairs and maintenance-security vehicles	2,063.90
108	Western Exterminator Company	Pest control services	437.00
109	Wintrust Specialty Finance	Monthly lease payment	6,613.09
110	XGraphix LLC	Restricted Area signs for airport	1,408.31
	Total		$ 8,458,843.74

Visa Breakdown
January 2023
SBIAA

Line	Description	Vendor	Dept.	Amount
1	Office supplies	Rite Aid	Admin	34.47
2	Office supplies	Staples	Admin	105.95
3	Flowers for employee	Hilton Flowers	Admin	24.24
4	Office supplies	Staples	Admin	134.90
5	Office 365 licensing-Standard	www.office.com	COB	515.40
6	Office 365 licensing-Basic	www.office.com	COB	687.50
7	Office 365 licensing-Premium	www.office.com	COB	220.00
8	Annual fees	www.zoom.com	COB	808.02
9	Maintenance supervisor lunch meeting	Guang Lin Cafe	OPS	86.81
10	Airport terminal Christmas tree	Home Depot	OPS	868.91
11	Department head lunch meeting	Chili's	OPS	200.37
12	Satellite TV for Customs Office	Dish Network	HR	95.68
13	Registration for annual conference	Public Agency Risk Management	HR	350.00
14	Facilities interview panel lunch	Habit Burger	HR	56.56
15	Catering for employee engagement event	Westside Pit BBQ	HR	2,016.27
16	Supplies for employee engagement	Sam's Club	HR	355.79
17	Supplies for FBO employee engagement	Target	HR	60.93
18	Samsung TV for 2nd floor terminal concessions cafe	Best Buy	Development	1,419.74
19	Wall mounts for TV 2nd floor concessions	Best Buy	Development	380.61
20	Las Vegas flight banner advertisement	Ace Exhibits	Mktg	454.79
21	Flowers for R. Ramirez	1800 Flowers	Admin	66.14
22	Landscape crystal rock to fill fountain	American Specialty Glass	Fuel Farm	1,341.73
23	Supplies for scully system installation trucks	Lowes	Fuel Farm	326.86
24	Restock shop supplies	Home Depot	Maint	215.16
25	Supplies for taxiway repairs	Home Depot	Maint	285.39
26	Paint to touch-up USFD ramp line	Home Depot	Maint	58.23
27	Spray pump bottles for pesticide container	Home Depot	Maint	18.42
28	Ford parts (dealer only parts)	Ken Grody Ford	Maint	45.90
29	Hydraulic seal replacement and annual inspection/certification- Bucket truck #19-01	A&J Truck Repair	Maint	1,584.87
30	Replacement wheels-FBO	Car Pros Volkswagen	Maint	398.96
31	Vehicle alignment	Gary's Viking Tires	Maint	75.00
32	Windshield repair Security vehicle 306	Safelite Auto glass	Maint	133.68
33	Facilities Fleet shop plumbing supplies	Ferguson	Maint	59.05
34	Faucet purchase for Bldg-48 IVDA	Home Depot	Maint	75.04
35	Dealer only parts-truck #34	Hatfield Buick GMC	Maint	89.54
36	Vehicle alignment	Gary's Viking Tires	Maint	75.00
37	Dealer only parts for Truck# 4	Hatfield Buick GMC	Maint	282.18
38	Reimbursed -card used in error for personal use - (Marzulli's)	Marzulli's	Maint	101.29
39	Water heater replaced-Bldg 680	Home Depot	Maint	781.91
40	IT project electrical supplies- Bldg 673	Home Depot	Maint	384.71
41	ARFF training AOA gate parts	Gatehouse	Maint	663.55
42	Supplies for plumbing repairs	Ferguson	Maint	456.80
43	Drywall supplies for roof repairs IAF	Home Depot	Maint	40.90
44	Tools-restroom access doors	Home Depot	Maint	77.15
45	Roofing materials IAF roof repairs	Home Depot	Maint	84.29
46	New radio accessories	Amazon	Maint	240.23
47	Shop tools	Home Depot	Maint	81.50
48	Portable heaters while HVAC was out	Home Depot	Maint	119.58
49	Access door tools-Bldg 673	Home Depot	Maint	73.66
50	Access door tools-Bldg 673	Home Depot	Maint	36.91
51	Radio accessories	Amazon	Maint	130.43
52	Hot water dispenser faucet	Parts Town	Maint	231.60

Visa Breakdown
January 2023
SBIAA

Line	Description	Vendor	Dept.	Amount
53	Roof repairs-673 jet bridge	Home Depot	Maint	182.20
54	Electrical parts for tower project	Lowes	Maint	66.75
55	Electrical vault clip boards	Office Depot	Maint	66.62
56	IT project electrical parts-terminal	Home Depot	Maint	60.64
57	Silicone for roof repairs IAF	Home Depot	Maint	180.02
58	Shop tools-730	Home Depot	Maint	78.22
59	Signage for terminal ramp gate "SIDA"	Xgraphix	OPS	68.00
60	Supplies for employee engagement	Sam's Club	HR	253.04
61	Table settings supplies	Hobby Lobby	HR	65.18
62	Supplies for employee engagement	Target	HR	64.97
63	Floral arrangements and supplies employee engagement	Costco	HR	508.52
64	Boiler controller replacement-terminal Bldg 673	Radwell	OPS	603.50
65	Spin to win device	Amazon	Mktg	106.66
66	Facebook sponsored posts	Facebook.com	Mktg	9.04
67	NBAA Exhibitor registration FBO	NBAA	Mktg	745.00
68	Stock photography subscription	Dreamstime	Mktg	34.00
69	Stock photography subscription fee	Dreamstime	Mktg	1.00
70	Plaques	J&M Trophies	Mktg	71.75
71	Stock Photography subscription	Adobe Stock	Mktg	49.99
72	Flight planning tools FBO	ForeFlight	Mktg	499.99
73	Thanksgiving hospitality Honey Baked Ham refund	Honey Baked Ham	FBO	(94.90)
74	Uniform pants	Amazon	FBO	130.47
75	56 Passenger deluxe motor coach M. Burrows Delegate tour	H & L Charter Co., Inc.	FBO	1,040.30
76	Cable TV - FBO annual movie subscription for theater	Netflix	FBO	19.99
77	Transportation to hotel for Tail#VPCOQ	The Perfect Limo	FBO	228.00
78	Transportation from hotel for Tail#VPCOQ	The Perfect Limo	FBO	228.00
79	Uniform pants	Amazon	FBO	130.47
80	Vapor recovery test for AQMD testing	Bassco	FBO	607.90
81	Christmas decor for FBO lobby	Sams Club	FBO	197.82
82	Christmas decor for FBO lobby	Michaels	FBO	396.80
83	Christmas decor for FBO lobby	Hobby Lobby	FBO	8.68
84	Christmas decor for FBO lobby	Michaels	FBO	172.86
85	Uniform, jackets and shirt cleaning and welcome mats for aircraft arrivals	Cintas Uniforms	FBO	431.99
86	Christmas decor for FBO lobby	Hobby Lobby	FBO	69.32
87	Satellite subscription-FBO	Dish Network	FBO	143.32
88	Catering for Tail#OH-WIW	Stater Bros.	FBO	26.12
89	Fuel to be used for crew cars-FBO	Chevron	FBO	77.55
90	Fuel Farm Jet-A fuel storage tank and back-up generator processing fee	South Coast AQMD	FBO	6.94
91	Fuel Farm Jet-A fuel storage tank and back-up generator permit	South Coast AQMD	FBO	312.51
92	Catering for Tail#9YGEO	Stater Bros.	FBO	22.08
93	Fuel tickets-FBO	Im-Press Printing	FBO	353.44
94	Christmas engagement for FBO staff	Juan Pollo	FBO	266.44
95	Fuel to be used for crew cars-FBO	Chevron	FBO	81.15
96	Employee background checks	Checkr	HR	541.92
97	New employee orientation hospitality	Yum Yum Donuts	HR	24.16
98	Annual employee engagement event	Libby's	HR	1,200.00
99	Annual employee engagement event	Henry Rodriguez	HR	300.00
100	Annual employee engagement event	Henry Rodriguez	HR	1,070.31
101	Air service conference registration-M. Burrows	Mead & Hunt	Admin	1,800.00
102	Catering for annual employee engagement event	Westside Pit BBQ	Admin	2,093.47

Visa Breakdown
January 2023
SBIAA

Line	Description	Vendor	Dept.	Amount
103	Employee motivation wheel gift cards	Stater Bros.	Maint	125.00
104	Office supplies Bldg. 730	Walmart	Maint	14.13
105	Fleet shop heater materials	Ferguson	Maint	86.02
106	Boiler pump- Bldg.673	National Pump Supply LLC	Maint	3,574.45
107	Fleet shop heater materials	Lowes	Maint	14.22
108	Fleet shop heater materials	Lowes	Maint	781.06
109	Fleet shop heater materials	Lowes	Maint	97.10
110	Employee motivation wheel gift cards	Stater Bros.	Maint	125.00
111	Christmas lights Bldg. 794	Walmart	Maint	230.05
112	Christmas lights Bldg. 673	Walmart	Maint	160.11
113	Cloud server website usage charges	Digital Ocean	IT	64.30
114	Website management software	CPanel	IT	35.99
115	Streaming services for Concourse	Sling TV	IT	21.55
116	IEWorldTrade Domain name renewal	GoDaddy	IT	245.51
117	Hosted IT collaboration communication software	Slack	IT	43.75
118	Terminal background music streaming service	Soundtrack Your Brand	IT	49.00
119	Catering for VP-COQ	Panera Bread	FBO	132.90
120	6 round tables for airport events	Sams Club	FBO	782.87
121	6 round tablecloths for airport events	Amazon	FBO	84.76
122	Travel CAC Baord Meeting 12/2022 -SFO M. Burrows train	Bart Clipper	Admin	20.00
123	Travel CAC Board Meeting 12/2022 -SFO M. Burrows taxi	Yellow Cab	Admin	93.60
124	Travel CAC Board Meeting 12/2022 -SFO M. Burrows Hotel	Kissel Uptown	Admin	217.33
125	Breeze Airways Conference airline ticket	Breeze Airways	Admin	210.00
126	Travel AAAE Aviation Security Summit 12/2022 Washington DC J. Galvan lodging Hyatt Regency cancellation fee	Hyatt Regency	OPS	274.73
127	Travel AAAE Aviation Security Summit 12/2022 Washington DC T. Bowie-lodging	Hyatt Regency	OPS	824.19
				$ 41,422.42
	VISA Statement Balance			$ 41,422.42
	Date Prepared: 02/09/2023			

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 4** **PRESENTER: Mark Cousineau, Director of Finance**

SUBJECT: RECEIVE AND FILE TREASURER'S REPORT FOR DECEMBER 31, 2022 FOR THE SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY (SBIAA)

SUMMARY

SBIAA's monthly Treasurer's Report that reconciles cash.

RECOMMENDED ACTION(S)

Receive and file Treasurer's Report for December 31, 2022 for the San Bernardino International Airport Authority (SBIAA).

FISCAL IMPACT

None.

PREPARED BY:	Mark Cousineau
CERTIFIED AS TO AVAILABILITY OF FUNDS:	N/A
APPROVED AS TO FORM AND LEGAL CONTENT:	N/A
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

Attached is the Treasurer's Report for December 31, 2022, for the San Bernardino International Airport Authority. The total book value of cash accounts is $13,933,149.96 on December 31, 2022. Bank statements reflect $14,274,775.40. The difference between the two numbers is related to the outstanding checks, the deposits in transit, and other items December 31, 2022.

If you have any questions about this report, please contact me at (909) 382-4100 x141.

Attachments:

1. Treasurer's Report for December 31, 2022

SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY

Treasurer Report

December 31, 2022

Cash	Balance 11/30/22	Activities	Balance 12/31/22
Checking Account - Wells Fargo Bank	$ 6,637,418.91	$ (1,382,548.84)	$ 5,254,870.07
Deposits In Transit:			
Beginning	837,270.41	(837,270.41)	-
Ending		423,870.94	423,870.94
Outstanding Checks:			
Beginning	(56,875.21)	56,875.21	-
Ending		(765,496.38)	(765,496.38)
Premium Money Market Account - Wells Fargo Bank	508,201.48	7,317,666.34	7,825,867.82
Deposits In Transit:			
Beginning			
Ending			
Payroll Account - Wells Fargo Bank	(1,171.69)	1,187.63	15.94
Deposits In Transit:			
Beginning	-	-	-
Ending	-	-	-
Outstanding Checks:			
Beginning	-	-	-
Ending	-	-	-
Subtotal	7,924,843.90	4,814,284.49	12,739,128.39
Investments			
Local Agency Investment Funds	320,914.60	-	320,914.60
Deposits In Transit:			
Beginning			
Ending			
Subtotal	320,914.60	-	320,914.60
Investments Held With Fiscal Agent			
Debt Service Fund-US Bank-2021A series	418,211.27	(132,913.46)	285,297.81
Reserve Fud- US Bank 2021A series	538,633.73	(18,433.32)	520,200.41
Cost Of Issuance Fund- US Bank 2021A series	1,014.32	2.71	1,017.03
Refunding Fund-US Bank 2021A series	-	-	-
Debt Service Fund-US Bank-2021B series	81,846.98	(81,080.07)	766.91
Debt Service Reserve Fund -US Bank-2021B series	66,074.23	(284.72)	65,789.51
Cost Of Issuance Fund- US Bank 2021B series	0.35	(0.35)	0.00
Construction Fund- US Bank 2021B series	34.86	0.44	35.30
Subtotal	1,105,815.74	(232,708.77)	873,106.97
Total Cash and Investments	$ 9,351,574.24	4,581,575.72	$ 13,933,149.96

I certify that this report accurately reflects all cash and investments for the above period and all the investment is in compliance with San Bernardino International Airport Authority's Investment policy. San Bernardino International Airport Authority shall be able to meet it's expenditure requirment for next six month, anticipating operational fund receipts from IVDA.

Mark W. Cousineau

Mark Cousineau, Treasurer

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 5** **PRESENTER: Jeff Barrow, Director of Development**

SUBJECT: **APPROVE CHANGE ORDER NO. 1 IN THE AMOUNT OF $18,550.00 WITH AEC MORENO CORPORATION FOR A TOTAL CONTRACT AMOUNT NOT TO EXCEED $68,050.00 FOR THE 1ST FLOOR CONCESSION STAND IMPROVEMENTS PROJECT**

SUMMARY

This proposed change order addresses necessary updates to the existing concession stand buildout in order to meet the current San Bernardino County of Public Health Codes. For example, sufficient water heating, new storage room tile, cove base, fiberglass reinforced panels, as well as other updates which are included in Change Order No. 1.

RECOMMENDED ACTION(S)

Approve Change Order No. 1 in the amount of $18,550.00 with AEC Moreno Corporation for a total contract amount not to exceed $68,050.00 for the 1st Floor Concession Stand Improvements Project; and authorize the Chief Executive Officer to execute all related documents.

FISCAL IMPACT

None. Funding for this project is included in the adjusted San Bernardino International Airport Authority Fiscal Year 2022-2023 Budget in the Capital Project Fund, Account 52585 - Terminal Improvements in the amount of $832,000 of which $160,806 is available to fund Change Order No. 1 in the amount of $18,550 for the First Floor Concession Stand Improvement Project.

PREPARED BY:	Kevin Vejar
CERTIFIED AS TO AVAILABILITY OF FUNDS:	Mark Cousineau
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

On March 8, 2022, the San Bernardino International Airport Authority (SBIAA), in partnership with Breeze Airways, announced the commencement of air passenger service from SBD to SFO which started August 4, 2022. To complete the work necessary to support this service, the Airport needs to contract for provision of airport food and beverage concessions to support the flying public. After completion, some updates to the 1st floor concession stand buildout are required in order to meet end user needs while meeting the current County Health Department codes.

- Original Project Cost: $49,500.00
- Proposed Change Order No. 1: $18,550.00
- New Project Cost: $ 68,050.00

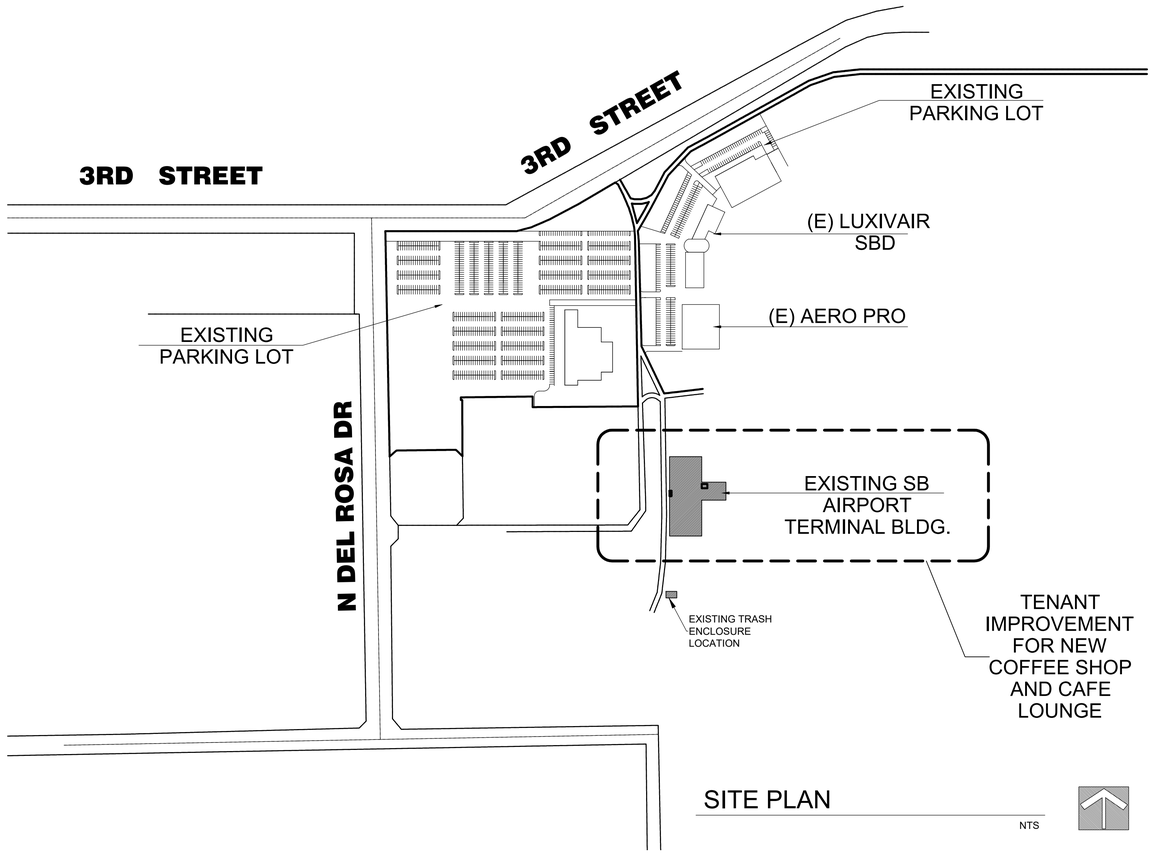
Staff recommends the SBIAA Commission approve the above action.

Attachments:

1. Plans
2. Change Order No. 1
3. Health Department Report

TENANT IMPROVEMENT FOR NEW COFFEE SHOP

FOR SAN BERNARDINO INTERNATIONAL AIRPORT TERMINAL BLDG.



SITE PLAN

NTS

BUILDING SUMMARY

PROPOSED COFFEE SHOP:	388.00 SQ. FT.
PROPOSED CAFE LOUNGE:	1,003.00 SQ. FT.

SCOPE OF WORK

TENANT IMPROVEMENTS INCLUDE THE CONSTRUCTION OF NEW COUNTER SPACE, ELECTRICAL FIXTURES & PLUMBING TO ACCOMMODATE PROPOSED LELAND'S COFFEE SHOP TO BE LOCATED ON THE 1ST LEVEL INSIDE OF SAN BERNARDINO INTERNATIONAL AIRPORT TERMINAL BUILDING.

OCCUPANT LOAD CALCULATION

COFFEE SHOP (1ST FLOOR)
KITCHEN AREA = 58.00 SQ. FT.
PER TABLE 1004.5 KITCHEN AREAS 200 SQ. FT. GROSS PER OCCUPANT
58.00 / 200.00 =.29 OCCUPANTS= 1 OCCUPANTS

SEATING AREA = 88.00 SQ FT.
PER TABLE 1004.5 UNCONCENTRATED TABLES AREAS 15 SQ. FT. NET PER OCCUPANT
88.00 / 15.00 =5.86 OCCUPANTS= 6 OCCUPANTS

CONSTRUCTION NOTES

1. IT IS UNLAWFUL TO MAKE ANY CHANGES OR ALTERATIONS OF THESE PLANS WITHOUT THE APPROVAL OF EHS. THE APPROVAL OF THIS PLAN AND SPECIFICATIONS SHALL NOT BE CONSTRUED TO PERMIT THE VIOLATION OF ANY LAW. THESE PLANS SHALL BE KEPT AT THE SITE DURING THE CONSTRUCTION PHASE.
2. A PRELIMINARY INSPECTION SHALL BE DONE WHEN THE FLOORS, WALLS, AND CEILING FINISHES ARE COMPLETE AND THE EQUIPMENT IS IN PLACE. A FINAL INSPECTION WILL BE NEEDED IN ORDER TO RECEIVE HEALTH PERMIT APPROVAL FROM THIS AGENCY. HEALTH PERMIT APPROVAL IS REQUIRED PRIOR TO OPENING THE FOOD FACILITY OR STORING FOOD OR BEVERAGES. WHEN WORK ON THE PROJECT HAS PROGRESSED TO THE POINT OF REQUIRING AN INSPECTION, PLEASE CONTACT US AT LEAST FIVE (5) WORKING DAYS IN ADVANCE IN ORDER TO HELP US ACCOMMODATE YOUR REQUEST.
3. WHERE PIPELINES ENTER A WALL, CEILING, OR FLOOR, THE OPENING AROUND THE LINE SHALL BE TIGHTLY SEALED.
4. ALL PLUMBING LINES MUST BE AT LEAST SIX (6) INCHES OFF THE FLOOR AND 1/2 INCH AWAY FROM WALLS AND NOT CROSS ANY AISLE, TRAFFIC AREA OR DOOR OPENING.
5. ENSURE THE SAFE IS MOUNTED ON A SOLID CURB WITH APPROVED BASE COVE AROUND IT (3/8" RADIUS BASE OF APPROVED MATERIAL).
6. ALL CONDENSATE DRAIN LINES SHALL BE PROPERLY SLOPED AS PER THE APPLICABLE LOCAL PLUMBING ORDINANCES.

PROJECT DATA

A.P.N.:	N/A
ZONING:	PF-FACILITY/ COMMERCIAL OFFICE
OWNER	SAN BERNARDINO INTERNATIONAL AIRPORT 1601 E 3RD. STREET SAN BERNARDINO, CA 92408
APPLICANT:	SAN BERNARDINO INTERNATIONAL AIRPORT 1601 E 3RD. STREET SAN BERNARDINO, CA 92408
DESIGNER:	AEC MORENO 236 W. ORANGE SHOW RD., STE. 112 COLTON, CA 92324 PHONE NO.: (909) 440-2855
LEGAL DESCRIPTION:	PORTION OF LOT 11, BLOCK 49, RANCHO SAN BERNARDINO RECORDED MAP BOOK 7, PAGE 2
CITY:	SAN BERNARDINO
COUNTY:	SAN BERNARDINO
STATE:	CALIFORNIA
CONSTRUCTION TYPE:	TYPE V-B
OCCUPANCY GROUP:	A-2
APPLICABLE CODES:	ALL WORK SHALL COMPLY WITH THE 2019 CALIFORNIA BUILDING CODE 2019 CALIFORNIA PLUMBING CODE 2019 CALIFORNIA ELECTRICAL CODE 2019 CALIFORNIA MECHANICAL CODE 2019 CALIFORNIA FIRE CODE 2019 CALIFORNIA ENERGY CODE 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
NUMBER OF STORIES:	TWO STORY
AUTOMATIC FIRE SPRINKLERS:	YES - EXISTING TO PROTECT IN PLACE

SHEET INDEX

A-1. SITE PLAN
A-1.1. 1ST FLOOR TERMINAL BUILDING (REFERENCE PLANS)
A-1.2. 2ND FLOOR TERMINAL BUILDING (REFERENCE PLANS)
A-2. 1ST STORY FLOOR PLAN (COFFEE SHOP)
A-2.1. 1ST STORY EQUIPMENT PLAN & FINISH SCHEDULE (COFFEE SHOP)
A-2.2. 1ST STORY AS-BUILT FLOOR PLAN (COFFEE SHOP) RESTROOM REFERENCE PLANS
A-2.3. 1ST STORY AS-BUILT FINISH SCHEDULE PLAN (COFFEE SHOP) RESTROOM REFERENCE PLANS
A-3. 1ST STORY ELEVATIONS (COFFEE SHOP)
E1.0. ELECTRICAL NOTES
E2.0. LIGHT PLAN
E2.1. PHOTOMETRIC PLAN
E2.2. ELECTRICAL SPECS
E4.0. SINGLE LINE DIAGRAM
E4.1. PANEL SCHEDULE
E5.0. ELECTRICAL DETAILS
P0.1. PLUMBING NOTES AND LEGENDS
P0.2. PLUMBING SCHEDULES
P1.0. PLUMBING FLOOR PLANS
P2.0. PLUMBING FLOOR PLANS

VICINITY MAP



MAP NOT TO SCALE

AEC | MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.aecmoreno.com

NEW COFFEE SHOP
FOR SAN BERNARDINO TERMINAL AIRPORT

SITE PLAN

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	HEALTH DEPARTMENT REVISION #1 (11/10/2022)	TB		11/16/22

AEC | Moreno Corp.
236 W. ORANGE SHOW RD.
SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263

REGISTERED PROFESSIONAL ENGINEER
HECTOR M. MORENO
No. C 66015
EXP. 06/30/24
STATE OF CALIFORNIA - CIVIL

HECTOR M. MORENO R.C.E.
EXP. 06/30/24

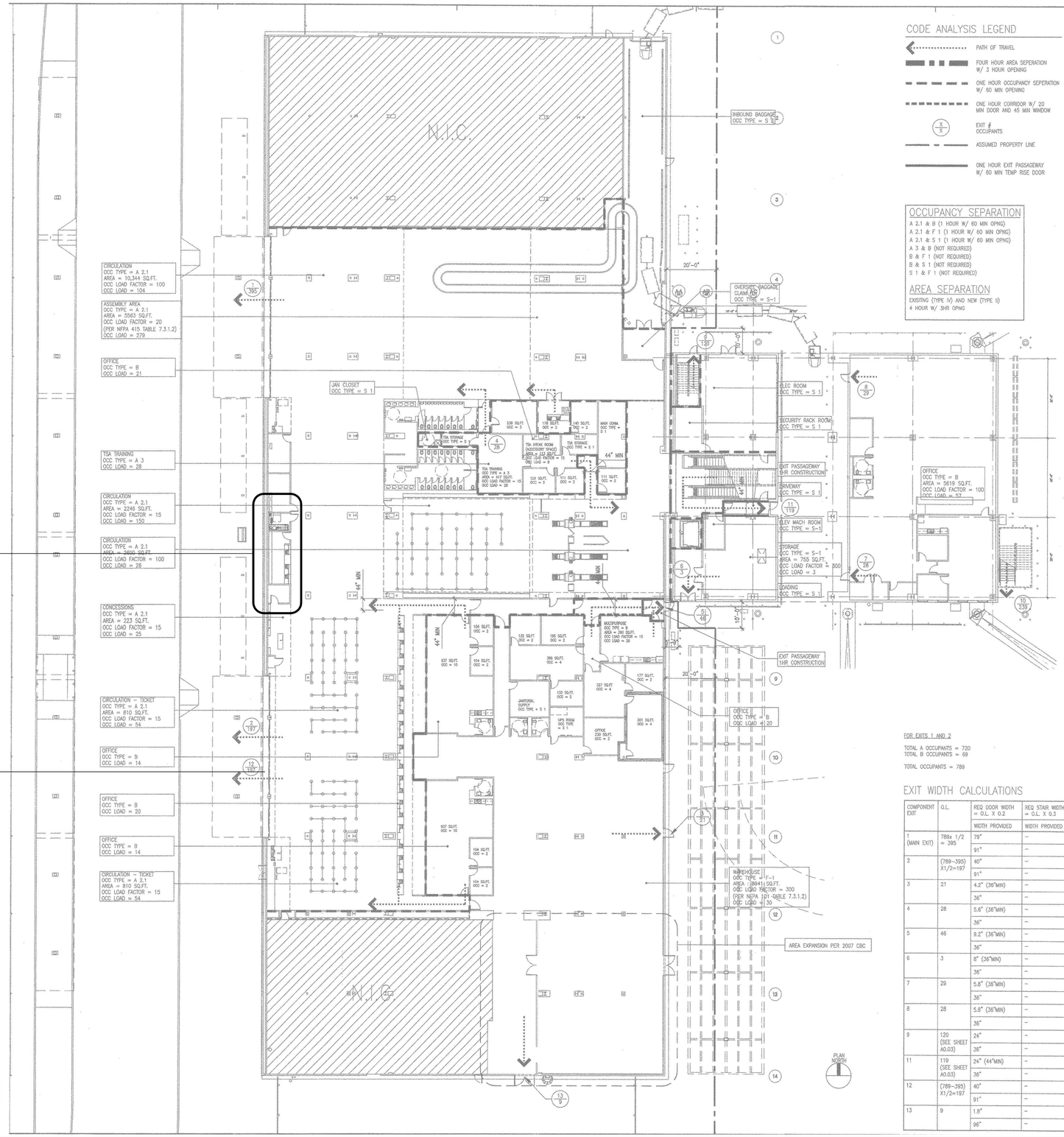
DATE: 01-05-23

SHEET NO: A-1

reference:

NEW LELAND'S COFFEE SHOP
LOCATED INSIDE SAN BERNARDINO
AIRPORT TERMINAL BUILDING
1ST FLOOR

PROVIDE AIR CURTAIN AT DELIVERY DOOR. DELIVERY DOORS SHALL BE EQUIPPED WITH A MICROSWITCH ACTIVATED AIR CURTAIN DEVICE THAT DELIVERS AN AIR VELOCITY OF AT LEAST 750 FEET PER MINUTE, MEASURED THREE (3) FEET ABOVE THE FLOOR. THE CURTAIN OF AIR SHALL COVER THE ENTIRE WIDTH OF THE DOOR. FOR DELIVERY DOORS THAT ARE WIDER THAN FOUR (4) FEET, THE AIR CURTAIN MUST PRODUCE AN AIR VELOCITY OF AT LEAST 1600 FEET PER MINUTE, AS MEASURED THREE (3) FEET ABOVE THE FLOOR.



CODE ANALYSIS LEGEND

- PATH OF TRAVEL
- FOUR HOUR AREA SEPERATION W/ 3 HOUR OPENING
- ONE HOUR OCCUPANCY SEPERATION W/ 60 MIN OPENING
- ONE HOUR CORRIDOR W/ 20 MIN DOOR AND 45 MIN WINDOW
- EXIT # OCCUPANTS
- ASSUMED PROPERTY LINE
- ONE HOUR EXIT PASSAGEWAY W/ 60 MIN TEMP RISE DOOR

OCCUPANCY SEPARATION

A 2.1 & B (1 HOUR W/ 60 MIN OPNG)
A 2.1 & F 1 (1 HOUR W/ 60 MIN OPNG)
A 2.1 & S 1 (1 HOUR W/ 60 MIN OPNG)
A 3 & B (NOT REQUIRED)
B & F 1 (NOT REQUIRED)
B & S 1 (NOT REQUIRED)
S 1 & F 1 (NOT REQUIRED)

AREA SEPARATION

EXISTING (TYPE V) AND NEW (TYPE II)
4 HOUR W/ 3HR OPNG

FOR EXITS 1 AND 2

TOTAL A OCCUPANTS = 720
TOTAL B OCCUPANTS = 69

TOTAL OCCUPANTS = 789

EXIT WIDTH CALCULATIONS

COMPONENT EXIT	O.L.	REQ DOOR WIDTH = O.L. X 0.2	REQ STAIR WIDTH = O.L. X 0.3
		WIDTH PROVIDED	WIDTH PROVIDED
1 (MAIN EXIT)	789x 1/2 = 395	79"	--
		91"	--
2	(789-395) X1/2=197	40"	--
		91"	--
3	21	4.2" (36"MIN)	--
		36"	--
4	28	5.6" (36"MIN)	--
		36"	--
5	46	9.2" (36"MIN)	--
		36"	--
6	3	8" (36"MIN)	--
		36"	--
7	29	5.8" (36"MIN)	--
		36"	--
8	28	5.8" (36"MIN)	--
		36"	--
9	120 (SEE SHEET A0.03)	24"	--
		36"	--
11	119 (SEE SHEET A0.03)	24" (44"MIN)	--
		36"	--
12	(789-395) X1/2=197	40"	--
		91"	--
13	9	1.8"	--
		96"	--

1ST STORY FLOOR PLAN /TERMINAL BUILDING

SCALE:NTS

AEC | moreno CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.aecmoreno.com

NEW COFFEE SHOP
FOR SAN BERNARDINO TERMINAL
AIRPORT
1ST FLOOR
TERMINAL BUILDING
(FOR REFERENCE)

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	HEALTH DEPARTMENT REVISION #1 (11/10/2022)	TB		11/10/22

AEC | Moreno Corp.
236 W. ORANGE SHOW RD.
SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263

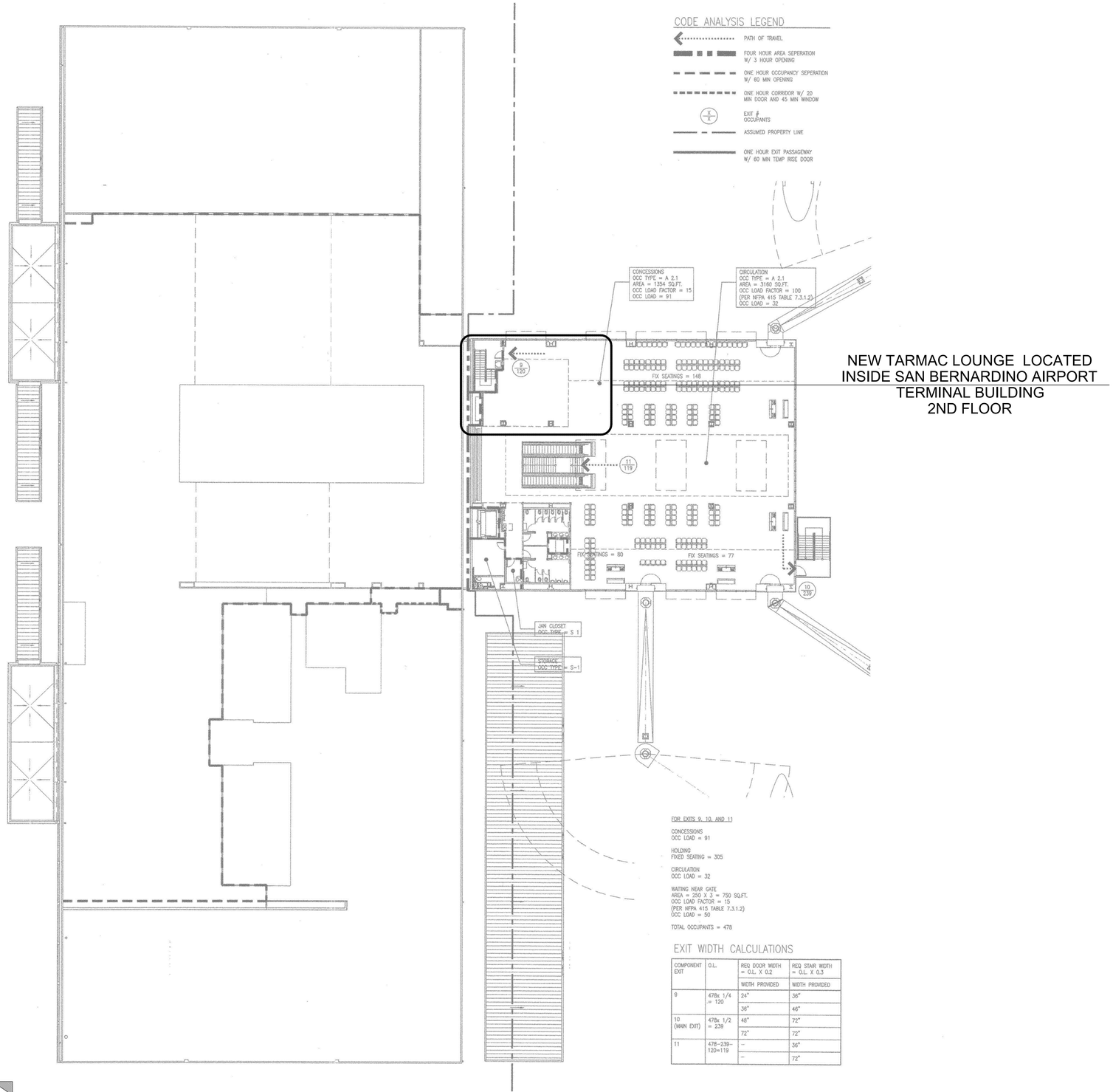
REGISTERED PROFESSIONAL ENGINEER
HECTOR M. MORENO
No. C 66015
EXP. 06/30/24
CIVIL
STATE OF CALIFORNIA

HECTOR M. MORENO R.C.E.
EXP. 06/30/24

DATE: 01-05-23

SHEET NO: A-1.1

reference:



EXIT WIDTH CALCULATIONS

COMPONENT EXIT	O.L.	REQ DOOR WIDTH = O.L. X 0.2	REQ STAIR WIDTH = O.L. X 0.3
		WIDTH PROVIDED	WIDTH PROVIDED
9	478x 1/4 = 120	24"	36"
		36"	46"
10 (MAIN EXIT)	478x 1/2 = 239	48"	72"
		72"	72"
11	478-239-120=119	--	36"
		--	72"

2nd STORY FLOOR PLAN /TERMINAL BUILDING

SCALE:NTS

AEC | moreno CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.aecmoreno.com

NEW COFFEE SHOP
FOR SAN BERNARDINO TERMINAL AIRPORT
2ND FLOOR
TERMINAL BUILDING
(FOR REFERENCE)

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	HEALTH DEPARTMENT REVISION #1 (11/3/2022)	TB		11/16/22

AEC | Moreno Corp.
236 W. ORANGE SHOW RD.
SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263

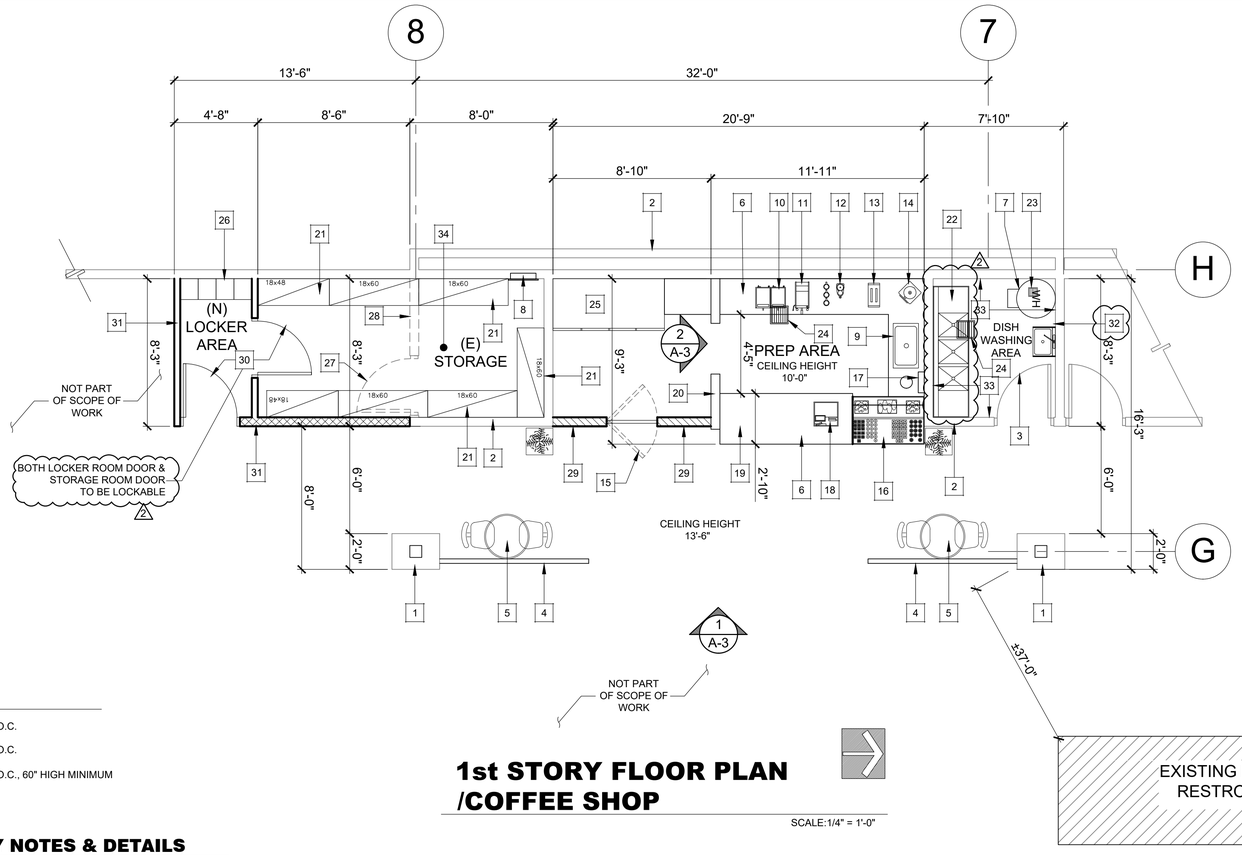
REGISTERED PROFESSIONAL ENGINEER
HECTOR M. MORENO
No. C 66015
EXP. 06/30/24
CIVIL
STATE OF CALIFORNIA

HECTOR M. MORENO R.C.E.
EXP. 06/30/24

DATE: 01-05-23

SHEET NO: A-1.2

reference:



1st STORY FLOOR PLAN /COFFEE SHOP

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

Leland's Coffee Menu -1st floor

Drinks
- Americano
- Caffe Latte
- Caffe Mocha
- Caramel Macchiato
- Hot Coffee
- Iced Caramel Macchiato
- Ice Coffee
- Mocha Frap
- Vanilla Bean Frap
- Hot Chocolate

Bakery
- Premade Cinnamon Rolls
- Bagels

NUMBERED KEY NOTES

1. EXISTING COLUMNS TO PROTECT IN PLACE
2. EXISTING WALL TO PROTECT IN PLACE
3. EXISTING DOOR TO PROTECT IN PLACE
4. NEW DECORATIVE RAILING
5. NEW COFFEE SHOP SEATING AREA TO COMPLY WITH ADA REQUIREMENTS
6. NEW COUNTER WITH HEIGHT OF 34 INCHES
7. NEW WATER HEATER MAKE: RHEEM MODEL: ES50-12-G WITH INPUT 12 KW (MUST MEET MINIMUM RATING OF 7 KW)
8. EXISTING 125 AMP PANEL
9. NEW 2'-6" X 1'5" ONE COMPARTMENT STAINLESS STEEL HAND SINK
10. NEW STAINLESS STEEL DOUBLE COFFEE BREW MACHINE
11. NEW GEVI ESPRESSO MACHINE
12. NEW COFFEE BEAN GRINDER
13. NEW STAINLESS STEEL SLICE TOASTER
14. NEW BLENDER
15. NEW 3'-0"X 4'-6" SALOON DOOR
16. NEW DUAL SERVICE REFRIGERATED AIR CURTAIN MERCHANDISER. FOOD ON DISPLAY SHALL BE PROTECTED FROM CONTAMINATION BY THE USE OF PACKAGING, COUNTER, SERVICE LINE, OR SNEEZE GUARDS THAT INTERCEPT A DIRECT LINE BETWEEN THE CUSTOMER'S MOUTH AND THE FOOD BEING DISPLAYED. ENSURE THAT REFRIGERATED DISPLAY CASE IS INSTALLED ON LEGS, BECAUSE IT IS PART OF THE CUSTOMER/EMPLOYEE BARRIER. 1
17. NEW STAINLESS STEEL NAPKIN DISPENSER
18. NEW REGISTER MACHINE
19. CEILING HEIGHT CHANGE
20. NEW LOW WALL 48" HIGH
21. NEW 4-TIERS DRY STORAGE RACK TOTAL OF 33 LINER FEET PROVIDED
22. NEW THREE COMPARTMENT WARE-WASHING SINK, THE MINIMUM SIZE SHALL BE 16"x20"x12" DEEP WITH 16"x20" DRAIN-BOARDS.
23. EXISTING FLOOR DRAIN
24. NEW 12"X12"X10" FLOOR SINK,FLOOR SINKS CANNOT BE LOCATED IN WALKWAYS, OR IN ANY OTHER LOCATION WHERE THEY WOULD FORM A TRIPPING HAZARD. FLOOR SINKS MUST BE HALF EXPOSED - THEY CANNOT BE TOTALLY COVERED BY EQUIPMENT (EXCEPT FOR FOOD PREP AND WAREWASHING SINKS
25. NEW EVEREST 3 DOOR REFRIGERATOR , STAINLESS STEEL, MODEL NUMBER EBRF3.
26. NEW METAL LOCKERS 12"Wx12"Dx36"H. LOCKERS MUST BE INSTALLED ON SIX(6) INCH HIGH, EASILY CLEANABLE LEGS, CANTILEVERED OFF THE WALL, OR ON A MINIMUM FOUR (4)INCH HIGH CONTINUOUSLY COVED CURB ON PLATFORM. L-ANGLE LEGS ARE NOT ACCEPTABLE. 1
27. EXISTING DOOR TO BE REMOVED
28. EXISTING WALL TO BE DEMOLISHED
29. NEW LOW WALL 60" HIGH MINIMUM
30. NEW 3'-0" x 6'-8" LOCKABLE SOLID CORE DOOR
31. NEW WALL PER WALL SCHEDULE
32. NEW STAINLESS STEEL HAND SINK
33. WALL SURFACE SHALL BE COVERED FIBERGLASS REINFORCED POLYESTER. COVER MUST EXTEND UP THE WALL AT LEAST FOUR FEET FROM THE COVED BASE
34. NEW STORAGE ROOM IS EQUIPPED WITH A MINIMUM OF 32 LINEAR FEET (3-TIER HIGH = 96 FEET) OF APPROVED ANSI CERTIFIED (NSF, UL, OR ITS) WIRE RACK SHELVES.

WALL SCHEDULE

- 2x4 STUDS @ 16" O.C.
- 2x6 STUDS @ 16" O.C.
- 2x6 STUDS @ 16" O.C., 60" HIGH MINIMUM

ACCESSIBILITY NOTES & DETAILS

11B-306.2 TOE CLEARANCE

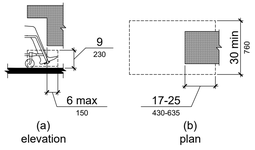
11B306.2.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE AND SHALL COMPLY WITH 306.2.

11B306.2.2 MAXIMUM DEPTH. TOE CLEARANCE SHALL EXTEND 25 INCHES (635 MM) MAXIMUM UNDER AN ELEMENT.

11B306.2.3 MINIMUM REQUIRED DEPTH. WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17 INCHES (430 MM) MINIMUM UNDER THE ELEMENT.

11B306.2.4 ADDITIONAL CLEARANCE. SPACE EXTENDING GREATER THAN 6 INCHES (150 MM) BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE.

11B306.2.5 **WIDTH.** TOE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM.



11B-306.3 KNEE CLEARANCE

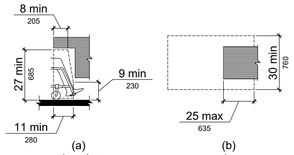
11B306.3.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE AND SHALL COMPLY WITH 306.3.

11B306.3.2 MAXIMUM DEPTH. KNEE CLEARANCE SHALL EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT AT 9 INCHES ABOVE FLOOR OR GROUND.

11B306.3.3 MINIMUM REQUIRED DEPTH. WHERE KNEE CLEARANCE IS REQUIRED UNDER AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11 INCHES DEEP MINIMUM AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND, AND 8 INCHES DEEP MINIMUM AT 27 INCHES ABOVE THE FINISH FLOOR OR GROUND.

11B306.3.4 CLEARANCE REDUCTION. BETWEEN 9 INCHES (230 MM) AND 27 INCHES (685 MM) ABOVE THE FINISH FLOOR OR GROUND, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1 INCH (25 MM) IN DEPTH FOR EACH 6 INCHES (150 MM) IN HEIGHT.

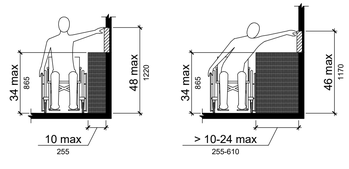
11B306.3.5 **WIDTH.** KNEE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM.



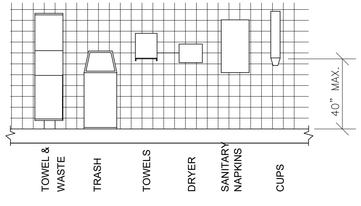
11B-308.3.2 OBSTRUCTED HIGH REACH

WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES (865 MM) MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES (610 MM) MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM FOR A REACH DEPTH OF 10 INCHES (255 MM) MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 10 INCHES (255 MM), THE HIGH SIDE REACH SHALL BE 46 INCHES (1170 MM) MAXIMUM FOR A REACH DEPTH OF 24 INCHES (610 MM) MAXIMUM.

EXCEPTIONS:
1. THE TOP OF WASHING MACHINES AND CLOTHES DRYERS SHALL BE PERMITTED TO BE 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR.
2. OPERABLE PARTS OF FUEL DISPENSERS SHALL BE PERMITTED TO BE 54 INCHES (1370 MM) MAXIMUM MEASURED FROM THE SURFACE OF THE VEHICULAR WAY WHERE FUEL DISPENSERS ARE INSTALLED ON EXISTING CURBS.



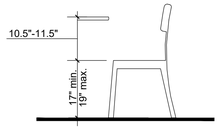
ACCESSORIES



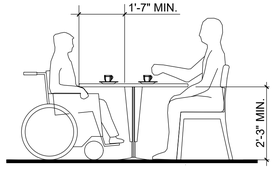
ACCESSORIES:

1. WHERE TOWEL, SANITARY NAPKIN AND WASTE RECEPTACLES AND SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED, AT LEAST ONE OF EACH TYPE IS TO BE LOCATED WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, WITHIN 40" FROM THE FLOOR.
2. MOUNT MIRRORS WITH BOTTOM EDGE NO MORE THAN 40" FROM FLOOR.
3. LOCATE TOILET TISSUE DISPENSERS ON WALL WITHIN 12" OF FRONT EDGE OF TOILET SEAT.

ACCESSIBLE CHAIR & TABLES



DINING ROOM CHAIRS SHOULD HAVE A SEAT 10.5" TO 11.5" BELOW THE TOP OF THE TABLE AND ARMREST 7"-8" ABOVE THE SEAT. TO COORDINATE WITH ACCESSIBLE TABLE, THE SEAT HEIGHT SHOULD BE 18".



ACCESSIBLE TABLES SHOULD PROVIDE KNEE SPACE AT LEAST A 2'-3"HIGH BY 2'-6" WIDE WITH 1'-7" OF FOOT ROOM.

AEC | moreno CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.aecmoreno.com

NEW COFFEE SHOP FOR SAN BERNARDINO TERMINAL AIRPORT

1ST STORY FLOOR PLAN (COFFEE SHOP)

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	HEALTH DEPARTMENT REVISION #1 (11/10/2022)	TB		11/16/22

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

AEC | Moreno Corp.
236 W. ORANGE SHOW RD.
SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263

REGISTERED PROFESSIONAL ENGINEER — HECTOR M. MORENO — No. C 66015 — EXP. 06/30/24 — CIVIL — STATE OF CALIFORNIA

HECTOR M. MORENO R.C.E.
EXP. 06/30/24

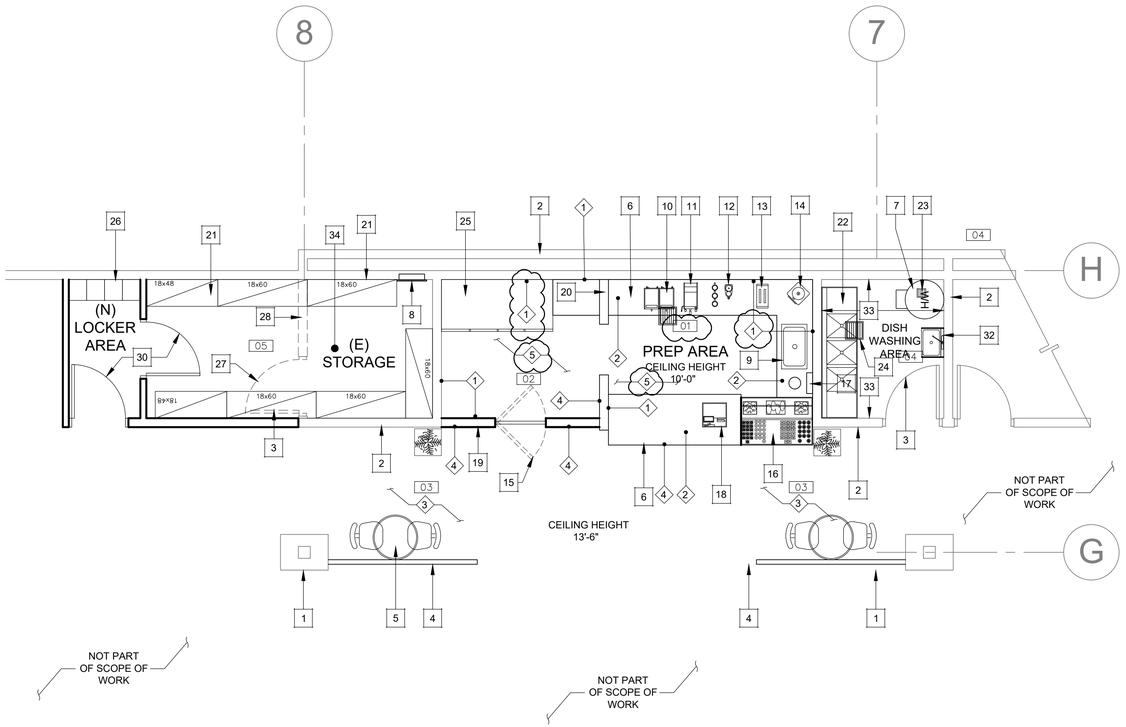
DATE: 01-05-23

SHEET NO: A-2

reference:

COLORS & MATERIALS

SYM.	DESCRIPTION	MATERIAL
1	NORTH, SOUTH & WEST WALL FINISH MATERIAL 4X8 CERAMIC TILE COLOR: WHITE -GLOSSY FINISH	
2	COUNTER TOP HIMACS SOLID SURFACE COLOR: ARTIC WHITE	
3	SEATING AREA FLOOR: 12" X 24" PORCELAIN TILE COLOR: RAY GRAY MATTE FINISH	
4	UNDER COUNTER AND PARTITION LOW WALL FINISH 6"X36" RECTANGLE WALL TILE COLOR: WHEAT-586 MATTE FINISH	
5	PREP. AREA STAINED CONCRETE WITH STAIN SEAL COLOR: LIGHT GRAY	



1st STORY EQUIPMENT PLAN & FINISH SCHEDULE
COFFEE SHOP

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

NUMBERED KEY NOTES

1. EXISTING COLUMNS TO PROTECT IN PLACE
2. EXISTING WALL TO PROTECT IN PLACE
3. EXISTING DOOR TO PROTECT IN PLACE
4. NEW DECORATIVE RAILING
5. NEW COFFEE SHOP SEATING AREA TO COMPLY WITH ADA REQUIREMENTS
6. NEW COUNTER WITH HEIGHT OF 34 INCHES
7. NEW WATER HEATER MAKE: RHEEM MODEL: ES50-12-G WITH RATING INPUT OF 12 KW (MUST MEET MINIMUM RATING OF 7 KW)
8. EXISTING 125 AMP PANEL
9. NEW 2'-6" X 1'5" ONE COMPARTMENT STAINLESS STEEL HAND SINK
10. NEW STAINLESS STEEL DOUBLE COFFEE BREW MACHINE
11. NEW ESPRESSO MACHINE
12. NEW COFFEE BEAN GRINDER
13. NEW STAINLESS STEEL SLICE TOASTER
14. NEW BLENDER
15. NEW 3'-0"X 4'-6" SALOON DOOR
16. NEW DUAL SERVICE REFRIGERATED AIR CURTAIN MERCHANDISER. FOOD ON DISPLAY SHALL BE PROTECTED FROM CONTAMINATION BY THE USE OF PACKAGING, COUNTER, SERVICE LINE, OR SNEEZE GUARDS THAT INTERCEPT A DIRECT LINE BETWEEN THE CUSTOMER'S MOUTH AND THE FOOD BEING DISPLAYED. ENSURE THAT REFRIGERATED DISPLAY CASE IS INSTALLED ON LEGS, BECAUSE IT IS PART OF THE CUSTOMER/EMPLOYEE BARRIER.
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18. NEW REGISTER MACHINE
19. CEILING HEIGHT CHANGE
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22. NEW THREE COMPARTMENT WARE-WASHING SINK, THE MINIMUM SIZE SHALL BE 16"x20"x12" DEEP WITH 16"x20" DRAIN-BOARDS.
23. EXISTING FLOOR DRAIN
24. NEW 12"X12"X10" FLOOR SINK,FLOOR SINKS CANNOT BE LOCATED IN WALKWAYS, OR IN ANY OTHER LOCATION WHERE THEY WOULD FORM A TRIPPING HAZARD. FLOOR SINKS MUST BE HALF EXPOSED - THEY CANNOT BE TOTALLY COVERED BY EQUIPMENT (EXCEPT FOR FOOD PREP AND WAREWASHING SINKS
25. NEW EVEREST 3 DOOR REFRIGERATOR , STAINLESS STEEL, MODEL NUMBER EBRF3.
26. NEW METAL LOCKERS 12"Wx12"Dx36"H. LOCKERS MUST BE INSTALLED ON SIX(6) INCH HIGH, EASILY CLEANABLE LEGS, CANTILEVERED OFF THE WALL, OR ON A MINIMUM FOUR (4)INCH HIGH CONTINUOUSLY COVED CURB ON PLATFORM. L-ANGLE LEGS ARE NOT ACCEPTABLE.
27. EXISTING DOOR TO BE REMOVED
28. EXISTING WALL TO BE DEMOLISHED
29. NEW LOW WALL 60" HIGH MINIMUM
30. NEW 3'-0" x 6'-8" SOLID CORE DOOR
31. NEW WALL PER WALL SCHEDULE
32. NEW STAINLESS STEEL HAND SINK
33. WALL SURFACE SHALL BE COVERED FIBERGLASS REINFORCED POLYESTER. COVER MUST EXTEND UP THE WALL AT LEAST FOUR FEET FROM THE COVED BASE
34. NEW STORAGE ROOM IS EQUIPPED WITH A MINIMUM OF 32 LINEAR FEET (3-TIER HIGH = 96 FEET) OF APPROVED ANSI CERTIFIED (NSF, UL, OR ITS) WIRE RACK SHELVES.

FINISH SCHEDULE

NO.	ROOM NAME	FLR.	BASE	WALLS NORTH	EAST	SOUTH	WEST	CEILING	REMARKS
01	PREP AREA	C.S.	C.S.B	C.T.	–	C.T.	C.T.	DRYWALL (104)	CEILING HEIGHT: 10'-0"
02	REFRIGERATOR AREA	P.T.	P.T.B	C.T.	C.T.	C.T.	C.T.	DRYWALL (104)	CEILING HEIGHT: 10'-0"
03	SITTING AREA	P.T.	–	–	–	–	–	ACT	CEILING HEIGHT: 13'-6"
04	DISH WASHING AREA	C.S.	C.S.B	FRP	FRP	FRP	FRP	DRYWALL (104)	CEILING HEIGHT: 10'-0"
05	(E)STORAGE	C.S.	C.S.B	(104)	(104)	(104)	(104)	DRYWALL (104)	CEILING HEIGHT: 10'-0"
06	LOCKER ROOM	C.S.	C.S.B	(104)	(104)	(104)	(104)	DRYWALL (104)	CEILING HEIGHT: 10'-0"

FINISH LEGEND

QT = QUARRY TILE
FRP = FIBERGLASS REIF. PLASTIC PANELING
ACT = ACOUSTICAL CEILING TILE, WASHABLE, NON-ABSORBENT, WHITE COLOR
C.T. = CERAMIC TILE
C.B. = CERAMIC TILE WITH 3/8"RADIUS COVE SHALL BE BE INTEGRAL TO FLOOR
P.T. = PORCELAIN TILE
P.T.B = PORCELAIN TILE WITH 3/8"RADIUS COVE SHALL BE INTEGRAL TO FLOOR

SS = STAINLESS STEEL
QB = QUARRY TILE, RECESSED COVE BASE, WITH 3/8"RADIUS COVE SHALL BE INTEGRAL TO FLOOR
C.S. = STAINED CONCRETE W/ STAIN SEAL
C.S.B = STAINED CONCRETE BASE WITH STAIN SEAL WITH 3/8"RADIUS COVE SHALL BE INTEGRAL TO FLOOR
(104) = WATER RESISTANT DRYWALL WITH GLOSS ENAMEL PAINT

NOTE:

1. CONCRETE FLOORS ARE TO BE SEALED WITH A COMMERCIAL-GRADE SEAMLESS TROWELED EPOXY FLOOR SYSTEM, OR USDA (OR EQUIVALENT) APPROVED PENETRATING SEALER, WHICH IS NONABSORBENT, GREASE AND ACID RESISTANT. NON-APPROVED SEALERS (LIKE POLYURETHANE) AND EPOXY PAINTS (I.E. ANY FORM OF GARAGE FLOOR PAINTS AVAILABLE AT HOME STORES) ARE NOT ACCEPTABLE.

2. USE APPROVED (SMOOTH, NONABSORBENT, DURABLE, WASHABLE AND LIGHT IN COLOR) ACOUSTIC CEILING PANELS OVER ALL AREAS IN WHICH FOOD IS PREPARED, PACKAGED, OR STORED, WHERE ANY UTENSIL ARE WASHED, WHERE REFUSE OR GARBAGE IS STORED, WHERE JANITORIAL FACILITIES ARE LOCATED, IN ALL TOILET AND HANDWASHING AREAS AND IN EMPLOYEE CHANGE AND STORAGE AREAS.

3. FLOOR SURFACES IN ALL AREAS IN WHICH FOOD IS PREPARED, PACKAGED, OR STORED, WHERE ANY UTENSIL IS WASHED, WHERE REFUSE OR GARBAGE IS STORED, WHERE JANITORIAL FACILITIES ARE LOCATED, IN ALL TOILET AND HANDWASHING AREAS AND IN EMPLOYEE CHANGE AND STORAGE AREAS SHALL BE OF AN APPROVED TYPE THAT CONTINUES UP THE WALL FOUR (4) INCHES, IN A SEAMLESS MANNER, FORMING A 3/8 INCH MINIMUM RADIUS COVE AS AN INTEGRAL UNIT.

4.FLOORING UNDER EQUIPMENT AND AT THE BASE COVES SHALL BE COMPLETELY SMOOTH. FLOOR SURFACES WHICH CONTAIN SLIP RESISTANT AGENTS SHALL BE RESTRICTED TO TRAFFIC AREAS ONLY.

5. THE WALLS AND CEILINGS OF ALL ROOMS SHALL BE OF A DURABLE, SMOOTH, NONABSORBENT, AND EASILY CLEANABLE SURFACE.

6. THE WALL SURFACES BEHIND AND ADJACENT ALL SINKS (INCLUDING HANDWASH AND MOP SINKS) SHALL BE COVERED WITH FIBERGLASS REINFORCED POLYESTER (FRP), STAINLESS STEEL, TILE, OR THE EQUIVALENT. THE APPROVED WALL COVER MUST EXTEND UP THE WALL AT LEAST FOUR (4) FEET FROM THE COVED BASE AND COVER THE WALLS BEHIND THE SINK AND ACCOMPANYING DRAINBOARDS TO A MINIMUM OF EIGHTEEN (18) INCHES ON BOTH SIDES.

EQUIPMENT CHECKLIST

SYMBOL	ITEM #	ITEM	MANUFACTURER	MODEL NUMBER	NSF, ANSI, ITS, ETL EPH, UL OR CSA LISTED	SPECIALLY FABRICATED	GAS	ELECTRICAL	HOT WATER	COLD WATER	DIRECT WASTE	INDIRECT WASTE
7	1	WATER HEATER	RHEEM	ES50-12-G	NSF			●	●			●
10	2	COFFEE BREW MACHINE WITH HOT WATER DISPENSER	BUNN	DUAL SH DBC	NSF UL			●	●			
11	3	ESPRESSO MACHINE	ASTRA	GS-022	UL CSA ETL NSF			●	●			
12	4	COFFEE BEAN GRINDER	ESTELLA CAFFE	ECEG26	NSF ETL			●				
13	5	SLICE COMMERCIAL TOASTER	AVA TOAST	184MDT4	ETL			●				
14	6	BLENDER	BLENDTEC STEALTH	885 MODEL S885C2901-B1GB1D	UL CSA NFS			●				
16	7	AIR CURTAIN MERCHANDISER	AVANTCO	BCAC-48	ETL			●				
22	8	3-COMPARTMENT SINK	ELKAY	SS8354L	NSF ANSI				●	●	●	
21	9	4-TIERS DRY STORAGE RACK	REGENCY	460SW18*KIT	NSF							
9	10	HAND SINK	CECO	454-UM	NSF				●	●	●	
22	11	HAND SINK 2	ELKAY	EHS-14X	NSF				●	●	●	
24	12	FLOOR SINK	JONES STEPHEN	S49043	NSF						●	
26	13	LOCKERS	ULINE	H-5987	NSF							
25	14	3 UPRIGHT DOOR REFRIGERATOR	EVEREST	EBRF3	NSF			●				

*INSERT LENGTH OF RACK IN INCHES (EX: 36" LONG MODEL NUMBER WILL BE 460SW1836KIT)

NOTE:

1. ALL NEW AND REPLACEMENT FOOD-RELATED AND UTENSIL RELATED EQUIPMENT SHALL BE CERTIFIED OR CLASSIFIED FOR SANITATION BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED CERTIFICATION PROGRAM (NSF, ITS, ETL, EPH, UL SANITATION OR CSA).
2. ALL EQUIPMENT, INCLUDING SHELVING, MUST BE SUPPORTED BY SIX (6) INCH HIGH, EASILY CLEANABLE LEGS, COMMERCIAL CASTORS, OR COMPLETELY SEALED IN POSITION ON A FOUR (4) INCH HIGH CONTINUOUSLY COVED BASE OR CONCRETE CURB TO FACILITATE EASE OF CLEANING.

AEC | MORENO CORPORATION
www.aecmoreno.com
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263

NEW COFFEE SHOP
FOR SAN BERNARDINO TERMINAL
AIRPORT

1ST STORY EQUIPMENT
PLAN & FINISH SCHEDULE

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY:	APPROVED BY:	DATE
1	HEALTH DEPARTMENT REVISION #1 (11/3/2022)	TB		11/16/22

AEC | Moreno Corp.
236 W. ORANGE SHOW RD.
SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263

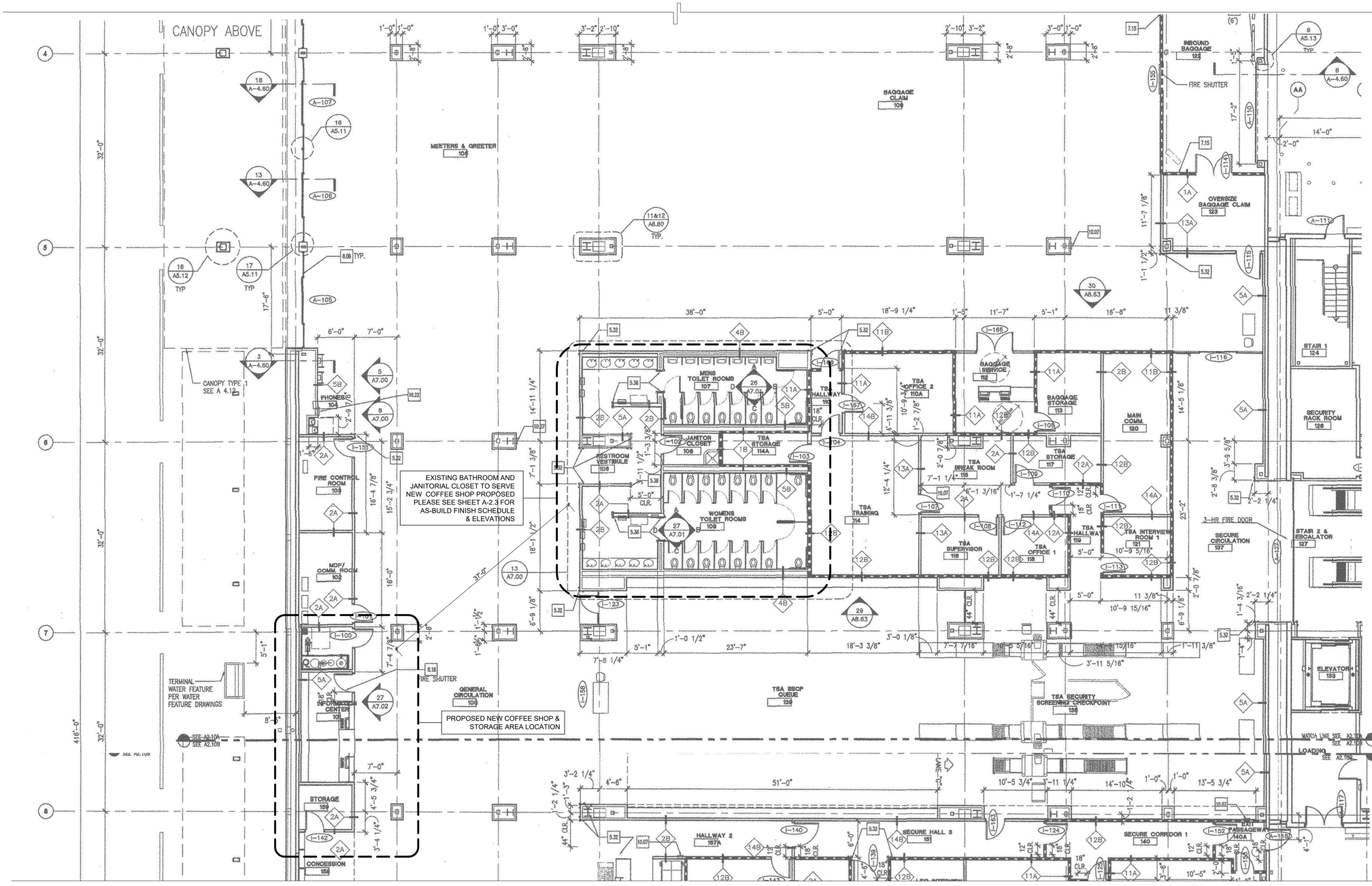
REGISTERED PROFESSIONAL ENGINEER
HECTOR M. MORENO
No. C 66015
EXP. 06/30/24
STATE OF CALIFORNIA
CIVIL

HECTOR M. MORENO R.C.E.
EXP. 06/30/24

DATE: 01-05-23

SHEET NO:
A-2.1

reference:



1st STORY AS-BUILT FLOOR PLAN

(REFERENCE PLANS) SCALE:1/8" = 1'-0"

AEC | moreno CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.aecmoreno.com

NEW COFFEE SHOP
FOR SAN BERNARDINO TERMINAL
AIRPORT

1ST STORY AS-BUILT FLOOR PLAN
(COFFEE SHOP)
RESTROOM REFERENCE PLANS

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

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236 W. ORANGE SHOW RD.
SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
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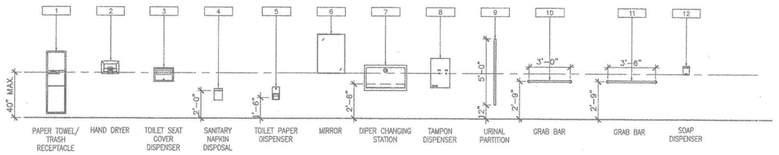
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HECTOR M. MORENO R.C.E.
EXP. 06/30/24

DATE: 01-05-23

SHEET NO: A-2.2

reference:

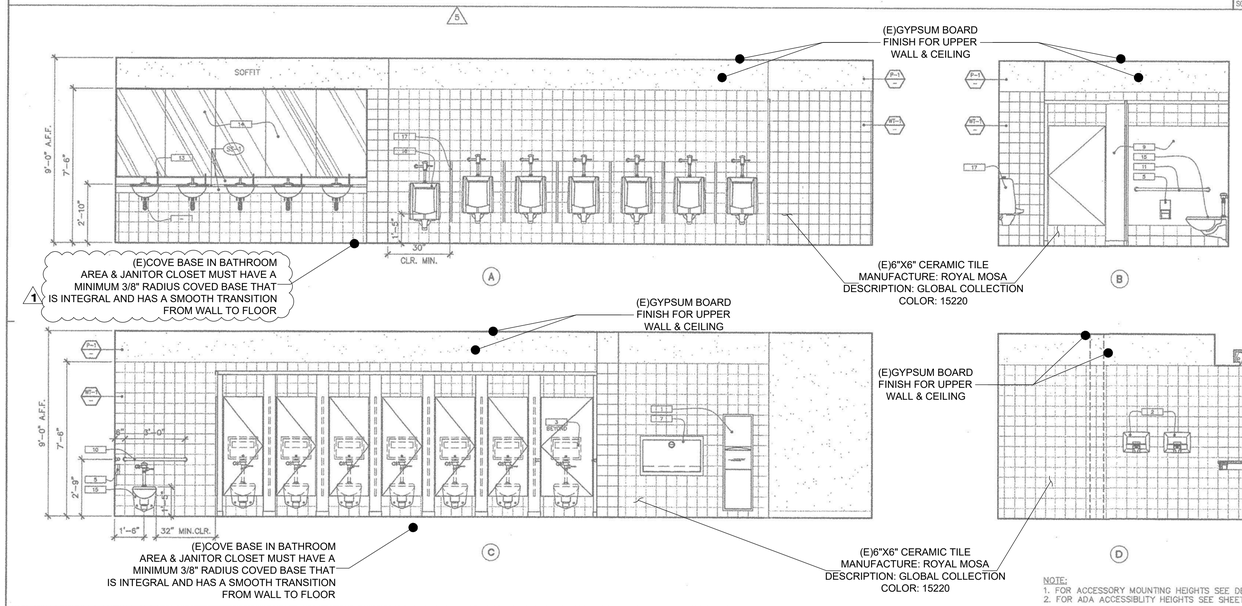


TOILET ROOM ACCESSORY SCHEDULE

SYMBOL	MANUFACTURER	DESCRIPTION
1	BOBRICK	B-3942 – SEMI-RECESSED PAPER TOWEL DISPENSER/WASTE RECEPTACLE
2	BOBRICK	B-7507 115V – RECESSED HAND DRYER
3	BOBRICK	B-221 – CLASSIC SERIES SURFACE MOUNTED SEAT-COVER DISPENSER
4	BOBRICK	B-270 – CONTURA SERIES SURFACE MOUNTED SANITARY NAPKIN DISPENSER
5	BOBRICK	B-2888 – SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER
6	BOBRICK	B-165 2436 – MIRROR WITH STAINLESS STEEL CHANNEL FRAME
7	KOALA KARE	KB110-SSRE – RECESSED MOUNTED STAINLESS STEEL FINISH BABY CHANGING STATION
8	BOBRICK	B-3500 25 RECESSED NAPKIN/TAMPON VENDORS
9	–	TOILET PARTITIONS – (MANUFACTURER TBD)
10	BOBRICK	B-5806 x 36 – 1 1/4" DIA. STAINLESS STEEL GRAB BARS W/ SNAP FLANGE
11	BOBRICK	B-5806 x 42 – 1 1/4" DIA. STAINLESS STEEL GRAB BARS W/ SNAP FLANGE
12	BOBRICK	B-5050 – MATRIX SERIES SURFACE-MOUNTED SOAP DISPENSER
13	BOBRICK	B-822 – LAVATORY-MOUNTED SOAP DISPENSER
14	–	MIRROR W/ STAINLESS STEEL FRAME ALL AROUND
15	–	TOILET (SEE PLUMBING DWGS.)
16	–	URINAL (SEE PLUMBING DWGS.)
17	–	URINAL PARTITIONS – (MANUFACTURER – TBD)

30 ACCESSORY MOUNTING HEIGHTS AND SCHEDULE

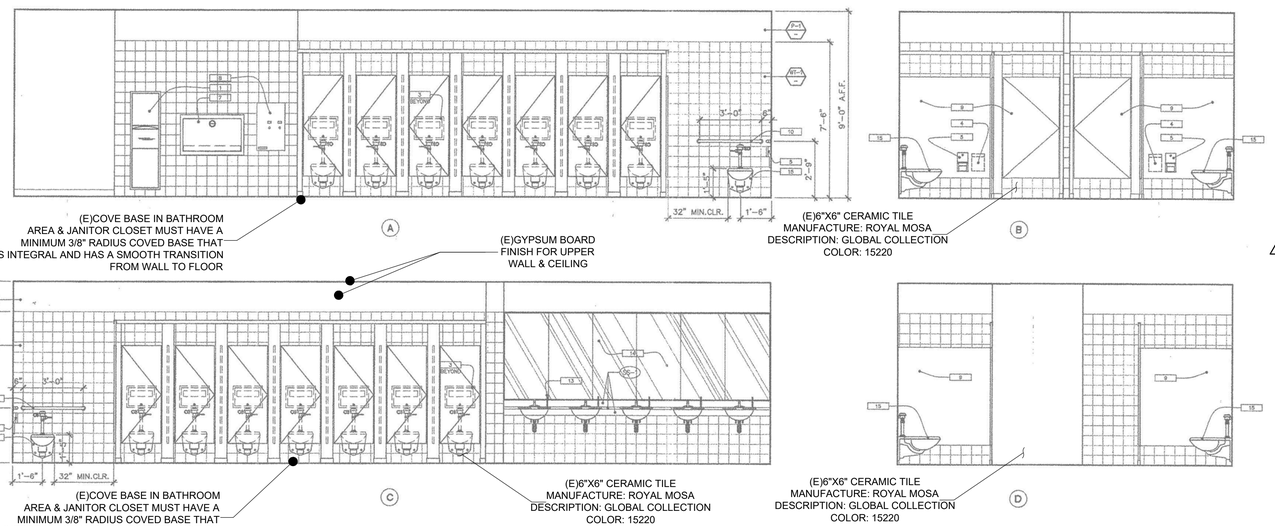
SCALE: 1/4"=1'-0"



NOTE:
1. FOR ACCESSORY MOUNTING HEIGHTS SEE DET. 30/A7.01
2. FOR ADA ACCESSIBILITY HEIGHTS SEE SHEET A7.00

28 MENS TOILET ROOM ELEVATIONS

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



26 WOMENS TOILET ROOM ELEVATIONS

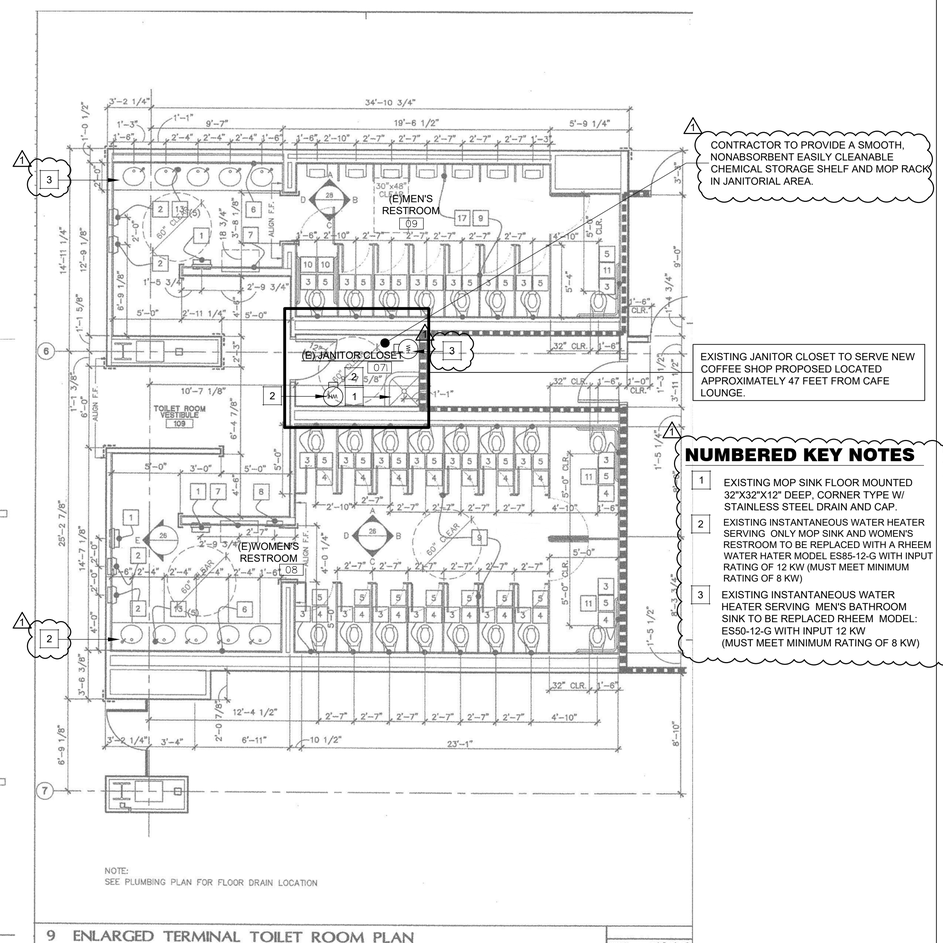
FINISH SCHEDULE

NO.	ROOM NAME	FLR.	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING	REMARKS
07	JANITOR CLOSET	TRZ	TRZB	CT	CT	CT	CT	DRYWALL 104	CEILING HEIGHT: 10'-0"
08	WOMEN'S RESTROOMS	TRZ	TRZB	CT	CT	CT	CT	DRYWALL 104	CEILING HEIGHT: 10'-0"
09	MEN'S RESTROOMS	TRZ	TRZB	CT	CT	CT	CT	DRYWALL 104	CEILING HEIGHT: 10'-0"

FINISH LEGEND

QT = QUARRY TILE
FRP = FIBERGLASS REIF. PLASTIC PANELING
ACT = ACOUSTICAL CEILING TILE, WASHABLE, NON-ABSORBENT, WHITE COLOR
C.T. = CERAMIC TILE
C.B. = CERAMIC TILE WITH 3/8"RADIUS COVE SHALL BE BE INTEGRAL TO FLOOR
P.T. = PORCELAIN TILE
SS = STAINLESS STEEL
QB = QUARRY TILE, RECESSED COVE BASE, WITH 3/8"RADIUS COVE SHALL BE INTEGRAL TO FLOOR
C.S. = STAINED CONCRETE W/ STAIN SEAL
C.S.B = STAINED CONCRETE BASE WITH STAIN SEAL WITH 3/8"RADIUS COVE SHALL BE INTEGRAL TO FLOOR
104 = WATER RESISTANT DRYWALL WITH GLOSS ENAMEL PAINT
TRZ = TERRAZO
TRZB = TERRAZO BASE WITH 3/8" RADIUS COVE, INTEGRAL TO FLOOR

NOTE: CONCRETE FLOORS ARE TO BE SEALED WITH A COMMERCIAL-GRADE SEAMLESS TROWELED EPOXY FLOOR SYSTEM, OR USDA (OR EQUIVALENT) APPROVED PENETRATING SEALER, WHICH IS NONABSORBENT, GREASE AND ACID RESISTANT, NON-APPROVED SEALERS (LIKE POLYURETHANE) AND EPOXY PAINTS (I.E. ANY FORM OF GARAGE FLOOR PAINTS AVAILABLE AT HOME STORES) ARE NOT ACCEPTABLE.



NUMBERED KEY NOTES

1. EXISTING MOP SINK FLOOR MOUNTED 32"X32"X12" DEEP, CORNER TYPE W/ STAINLESS STEEL DRAIN AND CAP.
2. EXISTING INSTANTANEOUS WATER HEATER SERVING ONLY MOP SINK AND WOMEN'S RESTROOM TO BE REPLACED WITH A RHEEM WATER HATER MODEL ES85-12-G WITH INPUT RATING OF 12 KW (MUST MEET MINIMUM RATING OF 8 KW)
3. EXISTING INSTANTANEOUS WATER HEATER SERVING MEN'S BATHROOM SINK TO BE REPLACED RHEEM MODEL: ES50-12-G WITH INPUT 12 KW (MUST MEET MINIMUM RATING OF 8 KW)

9 ENLARGED TERMINAL TOILET ROOM PLAN

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

AEC MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.aecmoreno.com

NEW COFFEE SHOP FOR SAN BERNARDINO TERMINAL AIRPORT

1ST STORY AS-BUILT FINISH SCHEDULE PLAN (COFFEE SHOP)
RESTROOM REFERENCE PLANS

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

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AEC | Moreno Corp.
236 W. ORANGE SHOW RD.
SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
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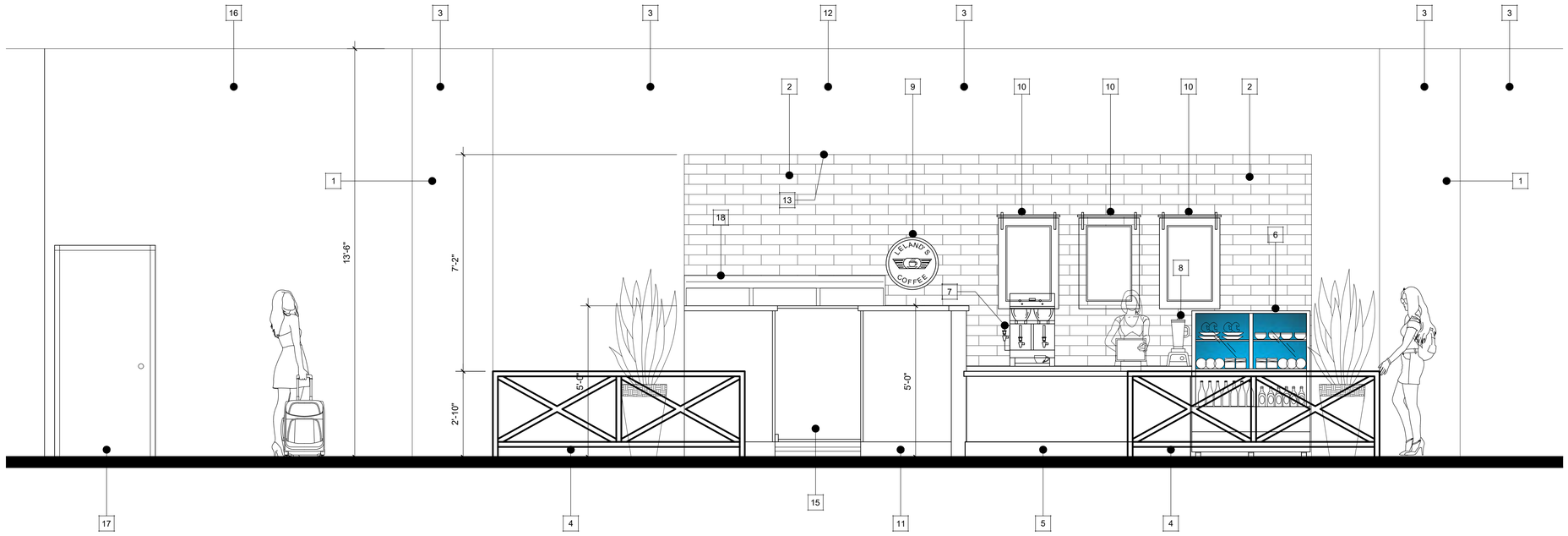
REGISTERED PROFESSIONAL ENGINEER HECTOR M. MORENO No. C 66015 EXP. 06/30/24 CIVIL STATE OF CALIFORNIA

HECTOR M. MORENO R.C.E.
EXP. 06/30/24

DATE: 01-05-23

SHEET NO: A-2.3

reference:



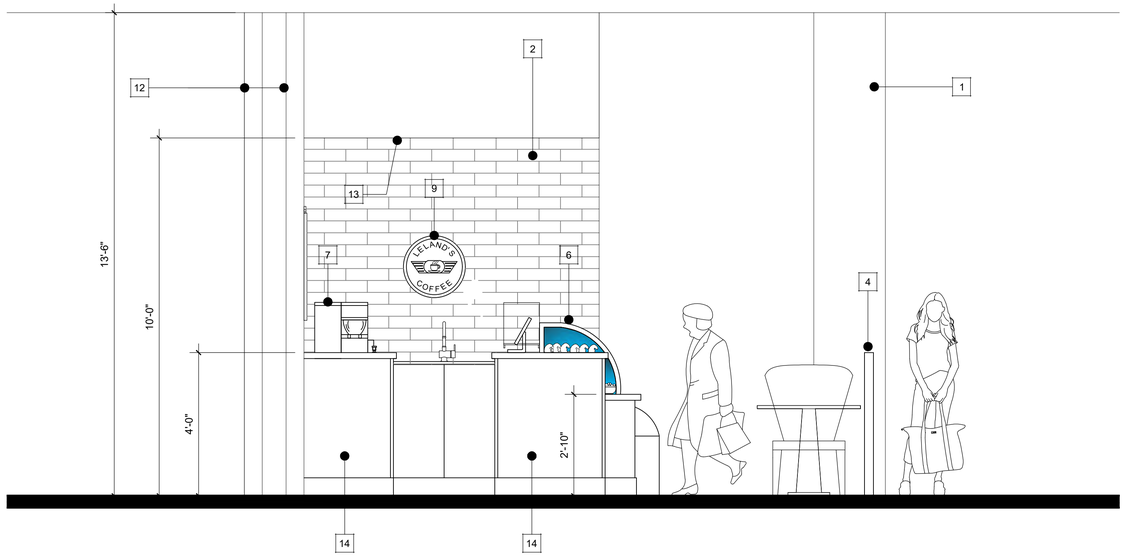
FRONT ELEVATION - COFFEE SHOP

1 / A-3

SCALE:1/2" = 1'-0"

NUMBERED KEY NOTES

1	EXISTING COLUMNS TO PROTECT IN PLACE
2	NEW WHITE CERAMIC TILE
3	EXISTING SMOOTH STUCCO FINISH , SHERWIN WILLIAMS WHITE SNOW SW9541
4	NEW 34" HIGH DECORATIVE METAL RAILING
5	NEW 34" HIGH COUNTER
6	NEW DUAL SERVICE REFRIGERATED AIR CURTAIN MERCHANDISER
7	NEW STAINLESS STEEL DOUBLE COFFEE BREW MACHINE
8	NEW BLENDER
9	NEW COFFEE SHOP LOGO
10	NEW WOOD BOARD MENU
11	NEW TRIPLE BASKET DISPLAY RACK
12	EXISTING WALL TO PROTECT IN PLACE
13	EXISTING CEILING WATER RESISTANT DRYWALL WITH ENAMEL PAINT
14	NEW 48" HIGH PONY WALL WITH CERAMIC TILE ONE SIDE (INSIDE STAND) AND LAMINATE AS FORMICA IN THE OTHER SIDE (EXTERIOR AREA)
15	NEW 3'-0"X 3'-6" SALOON DOOR
16	NEW SMOOTH STUCCO FINISH TO MATCH EXISTING, SHERWIN WILLIAMS WHITE SNOW SW9541
17	NEW 3'-0"x6'-8" SOLID CORE DOOR
18	NEW EVEREST 3 DOOR REFRIGERATOR , STAINLESS STEEL, MODEL NUMBER EBRF3.



LEFT ELEVATION - COFFEE SHOP

2 / A-3

SCALE:1/2" = 1'-0"

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NEW COFFEE SHOP
FOR SAN BERNARDINO TERMINAL
AIRPORT

1ST STORY ELEVATIONS
(COFFEE SHOP)

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

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AEC | Moreno Corp.
236 W. ORANGE SHOW RD.
SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263

REGISTERED PROFESSIONAL ENGINEER
HECTOR M. MORENO
No. C 66015
EXP. 06/30/24
CIVIL
STATE OF CALIFORNIA

HECTOR M. MORENO R.C.E.
EXP. 06/30/24

DATE: 01-05-23

SHEET NO: A-3

reference:

1. PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATING SYSTEM.

2. COORDINATE AND OBTAIN APPROVALS FROM ALL RESPECTIVE UTILITY COMPANIES AS REQUIRED FOR A COMPLETE AND OPERATING INSTALLATION.

3. INSTALL RACEWAY SYSTEMS AS FOLLOWS:
   a. USE ELECTRIC METALLIC TUBE CONDUIT IN ALL AREAS PROTECTED ABOVE CEILING OR IN WALLS.
   b. USE RIGID GALVANIZED STEEL IN ALL AREAS EXPOSED TO WEATHER OR PHYSICAL DAMAGE,
   c. USE FLEXIBLE METALLIC CONDUIT ONLY IN AREAS AS PERMITTED BY LOCAL CODE AUTHORITY, USE SEAL-TITE IN AREAS EXPOSED TO WEATHER.
   d. USE COMPRESSION TYPE FITTINGS FOR ELECTRICAL METALLIC TUBING WHERE UTILIZED.
   e. USE P.V.C. CONDUIT UNDERGROUND WITH CODE SIZED GROUND.
      CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR P.V.C. COATING.
   f. THE USE OF ROMEX OR BX IS NOT PERMITTED.

4. ALL NEW WIRING SHALL BE COPPER TYPE "THHN/THWN" - U.O.N..

5. ALL CEILING MOUNTED ELECTRICAL DEVICES AND/OR EQUIPMENT SHALL BE SUPPORTED FROM THE CEILING GRID, NOT FROM CEILING TILE.

6. ALL FIXTURE, DEVICE, ETC... LOCATIONS SHALL BE VERIFIED WITH ARCH. DRAWINGS AS WELL AS EQUIPMENT SUPPLIER REQUIREMENTS PRIOR TO ANY ROUGH-IN WORK.

7. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS,
THE 2019 CALIFORNIA ELECTRICAL CODE, AND THE CALIFORNIA ENERGY CODE.

8. CONTRACTOR SHALL PROVIDE LIGHTING FIXTURE MOUNTING KITS AS REQUIRED TO SUIT THE EXACT TYPE OF CEILING TO WHICH THEY ARE MOUNTED.

9. THESE DRAWING ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF EQUIPMENT, DEVICES, ETC... TO BE CONNECTED AND THE CIRCUITS TO WHICH THEY ARE TO BE CONNECTED TO. CONTRACTOR SHALL INSTALL ALL CONDUIT, J-BOXES, ETC... AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

10. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF.

11. ALL WORK SHALL COMPLY WITH THE 2019 CALIFORNIA ELECTRICAL CODE AND THE 2019 CALIFORNIA ENERGY CODE.

12. ALL EQUIPMENT SHALL BE NEW AND BEAR A "UL" LABEL - U.O.N..

13. CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS.

14. COMPLETE ELECTRICAL INSTALLATION SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF (1) YEAR - U.O.N..

15. CONTRACTOR SHALL INCLUDE IN BID - COSTS FOR ALL HVAC CONTROL COMPONENTS, CONDUITS, DEVICES, ETC... AS DEEMED NECESSARY FOR A COMPLETE AND OPERATING HVAC SYSTEM. REFER TO MECHANICAL DRAWINGS, DIAGRAMS AND SPECS FOR THOSE ITEMS REQUIRED UNDER THE ELECTRICAL SECTION OF THIS CONTRACT.

16. CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT, FIXTURE DEVICES,FEEDERS, ETC... EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTOR SHALL IMMEDIATELY NOTIFY ELECTRICAL ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOBSITE CONDITIONS AND WORK TO BE PERFORMED.

17. ALL EQUIPMENT ELECTRICAL CHARACTERISTICS, NEMA CONFIGURATION, LOCATIONS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.

18. CONTRACTOR SHALL FURNISH THE FOLLOWING SHOP DRAWINGS FOR PRIOR APPROVAL:
   a. ALL SUBMITTED LIGHT FIXTURES.
   b. ALL ELECTRICAL SERVICE EQUIPMENT, DISTRIBUTION EQUIPMENT AND PANELBOARDS.
   c. OTHER ITEMS AS SPECIFICALLY INDICATED.

19. COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE PRESENTLY ADOPTED EDITION OF THE CALIFORNIA ELECTRICAL CODE (CEC).

20. PENETRATIONS OF ALL FIRE RATED WALLS OR CEILINGS SHALL BE FIRE RATED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.

21. PROVIDE RIVETED ON ENGRAVED PLASTIC NAMEPLATES (BLACK WITH WHITE LETTERS) FOR ALL MAJOR ELECTRICAL EQUIPMENT.

22. PROVIDE THE OWNER WITH ONE SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF THE JOB.

23. ALL DEVICES MOUNTED BACK TO BACK ON THE FIRE RATED WALL SHALL BE MOUNTED WITH 24" MINIMUM HORIZONTAL OFFSET.

24. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.

25. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH TENANT IMPROVEMENT WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.

26. LOCATION OF OUTLET SHOWN IS APPROXIMATE ONLY AND OUTLET MAY BE MOVED TO SUIT EQUIPMENT LAYOUT. COORDINATE WITH ARCHITECT AND/OR TENANT REPRESENTATIVES FOR EXACT LOCATION.

27. PANELBOARDS SHALL BE PROVIDED WITH TYPEWRITTEN PANEL SCHEDULE MOUNTED INSIDE EACH PANEL AND ENGRAVED PRIMARY/SECONDARY PANEL LABELS FROM SWITCHBOARD.

28. VERIFY ALL DISCONNECT SWITCHES, FUSE SIZES AND TYPES WITH MECHANICAL EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.

29. A SEPARATE GROUNDING CONDUCTOR SHALL BE RUN IN ALL NON METALLIC CONDUIT RUNS.

30. ALL ELECTRICAL DEVICES SHOWN WITH (E) ARE EXISTING TO REMAIN AND (N) ARE NEW.

31. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGINATION. PROVIDE APPROVED HANDLE TIE AT CIRCUIT BREAKER AS REQUIRED.

32. ELECTRICAL RECEPTACLE OUTLETS AND SWITCHES, INCLUDING COMMUNICATION SYSTEM RECEPTACLES, SHALL BE LOCATED NOT LESS THAN 15" MEASURED TO THE BOTTOM OF THE BOX OR MORE THAN 48" MEASURED TO THE TOP OF THE BOX A.F.F.

33. PROVIDE GROUND CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUITS, SIZED PER CODE, UNLESS OTHERWISE INDICATED.

34. ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS TO ACCOMMODATE CONDUCTORS SHOWN. ALL PANELBOARDS SHALL BE EQUIPPED WITH BOLT-ON CIRCUIT BREAKERS PER PANEL SCHEDULE.

35. ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE FASTENED TO STRUCTURE SO AS TO RESIST MOVEMENT DUE TO SEISMIC FORCES. REQUIREMENTS SHALL BE AS SPECIFIED BY THE STATE OF CALIFORNIA AND LOCAL CODES AND ORDINANCES.

36. THE FEEDER LENGTHS SHOWN ON DRAWINGS ARE AN APPROXIMATE FOR VOLTAGE DROP CALCULATIONS. CONTRACTOR SHALL FIELD-VERIFY THE EXTENT OF THE WORK UNDER WHICH HE WILL BE OBLIGATED TO OPERATE IN PERFORMING HIS CONTRACT.

37. WINSTON ENGINEERING INC DOES NOT DETERMINE THE MAKE OR MODEL OF ANY EQUIPMENT U.O.N.

FIRE LIFE SAFETY NOTES

UNDER DESIGN/BUILD FIRE/LIFE SAFETY CONTRACTOR SHALL INVESTIGATE THE EXTENT OF REQUIRED SCOPE OF WORK WITH FIRE MARSHAL AND OTHER AUTHORITIES HAVING PLAN CHECK AND INSPECTION AUTHORITIES AND PROVIDE AND SUBMIT FIRE/LIFE SAFETY (FIRE ALARM SYSTEM) CONSTRUCTION DOCUMENTS TO AHJ. APPROVAL SHALL BE OBTAINED PRIOR TO THE INSTALLATION OF THE SYSTEM.

CONTRACTOR SHALL PROVIDE AS PART OF FIRE ALARM SYSTEM:

* CONSTRUCTION DOCUMENT AND SHOP DRAWINGS, EQUIPMENT LIST WITH CSFM LISTING NUMBERS.

* SYSTEM SHALL BE PEER TO PEER NETWORK CAPABLE AND MICROPROCESSOR BASED.

* COORDINATE WITH MECHANICAL, PLUMBING AND FIRE PROTECTION SYSTEM DRAWINGS FOR ALL REQUIRED FIRE ALARM DEVICES UNDER MECHANICAL, PLUMBING & FIRE PROTECTION AND PROVIDE INTERCONNECTING WIRING FOR A COMPLETE WORKING SYSTEM.

3PL	THIRD PARTY LOGISTICS
AC	AIR CONDITIONING
ACC	ACCESSIBLE
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
AMP	AMPERE
AOR	ARCHITECT OF RECORD
APPROX	APPROXIMATE
BOH	BACK OF HOUSE
BLDG	BUILDING
CAB	CABINET
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR OR CLEARANCE
COL	COLUMN
COMP	COMPARTMENT
CONST	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
CW	COLD WATER
CWF	COLD WATER FILTERED
CX	COMMISSIONING
CXA	COMMISSIONING AGENT
DEG	DEGREES
DET	DETAIL
DIA	DIAMETER
DISP	DISPENSER
DIM	DIMENSION
DM	DESIGN MANAGER
DN	DOWN
DWG(S)	DRAWING(S)
EA	EACH
EC	ELECTRICAL CONTRACTOR
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRICAL
EM	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST OR (E)	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FC	FIXTURE CONTRACTOR/INSTALLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF&E	FURNITURE, FIXTURE AND EQUIPMENT
F&I	FURNISH AND INSTALL
FIN	FINISH
FLR	FLOOR
FOH	FRONT OF HOUSE
FRP	FIBERGLAS REINFORCED PANEL
FS	FLOOR SINK
FT	FOOT OR FEET
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HC	HOLLOW CORE
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HS	HAND SINK
HT	HEIGHT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HOT WATER
ID	INSIDE DIAMETER
LC	LICENSEE
LL	LANDLORD
LV	LOW VOLTAGE
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL AND PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MS	MOP SINK
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OVER ALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	PHOTOCELL
PD	PRODUCTION DESIGNER
PDM	PROJECT DEVELOPMENT MANAGER
PLAM	PLASTIC LAMINATE
POS	POINT OF SALE
R	RADIUS
REF	REFERENCE
REQ('D)	REQUIRE(D)
REV	REVISION
RG	RETURN GRILLE
RND	ROUND
RT	ROOF TOP
SC	SOLID CORE
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
SUSP	SUSPENDED
TEL	TELEPHONE
TEMP	TEMPORARY
TW	TEMPERED WATER
TYP	TYPICAL
UC	UNDERCOUNTER
UON	UNLESS OTHERWISE NOTED
VD	VENDOR DIRECT
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	SANITARY WASTE
WH	WATER HEATER
WP	WEATHER PROOF
WCO	WALL CLEANOUT

POWER OUTLETS

FLOOR	WALL	CEILING	
			DUPLEX - NON CONTROL
			QUADRUPLEX- NON CONTROL
			DUPLEX-VOICE-DATA
			GFCI DUPLEX
			SIMPLEX
	EM		EMERGENCY DUPLEX
	EM		EMERGENCY QUADRUPLEX
	EM		EMERGENCY SIMPLEX
	CTR		COUNTERTOP DUPLEX
	IG		ISOLATED GROUND DUPLEX
	CR		CONTROLLED DUPLEX RECEPTACLE
	NEMA XXX		SINGLE NEMA OUTLET
	XP		EXPLOSION PROOF DUPLEX
	XP		EXPLOSION PROOF SIMPLEX
			SPLIT WIRE
	TR		TAMPER RESISTANT
CR CR	NS		NON STANDARD - VERIFY MOUNTING HEIGHT WITH ARCHITECT CONTROLLED DUPLEX / QUAD RECEPTACLE

TELECOM

FLOOR	WALL	CEILING	
			VOICE OUTLET WITH 1"C.O.
			DATA OUTLET WITH 1"C.O.
			VOICE-DATA WITH 1"C.O.
	CR		CARD READER
	BG		EMERGENCY BREAK GLASS
	PB		PUSH BUTTON
	S	S	SPEAKER - AV

WIRING

	3/4" CONDUIT WITH 2#12 WIRES, UON. GROUND WIRE NOT SHOWN.
#	3/4" CONDUIT WITH 3#12 WIRES, UON. GROUND WIRE NOT SHOWN.
##	3/4" CONDUIT WITH 4#12 WIRES, UON. GROUND WIRE NOT SHOWN.
1LA-1,3,5 ##	CONDUIT HOMERUN TO PANEL BOARD 1LA WITH CIRCUIT 1,3,5
	CAPPED CONDUIT
	CONDUIT RUN UNDERGROUND OR UNDER THE FLOOR SLAB
	CONDUIT TURNING DOWN
	CONDUIT TURNING UP
	CONDUIT BREAK

SHEET NO.	SHEET TITLE
E1.0	GENERAL NOTES
E2.0	LIGHTING & POWER PLAN
E2.1	PHOTOMETRICS STUDY
E2.2	PHOTOMETRICS STUDY DETAILS
E4.0	EXISTING SINGLE LINE DIAGRAM
E4.1	PANEL SCHEDULES
E5.0	ELECTRICAL DETAILS

FIRE ALARM & SECURITY SYSTEMS: FIRE ALARMS AND SECURITY SYSTEMS ARE NOT PART OF THIS CONTRACT. DESIGN-BUILD CONTRACTOR WILL SUBMIT AS SEPARATE PERMIT FOR APPROVAL

LIGHTING

FLOOR	WALL	CEILING	
			RECESSED DOWNLIGHT
			1X4 SURFACE MOUNTED LIGHT
			2X4 SURFACE MOUNTED LIGHT
			4FT WALL MOUNTED LIGHT
	EM		1X4 EMERGENCY LIGHT
	EM		2X4 EMERGENCY LIGHT
			2X4 RECESSED LIGHT
			EXIT SIGN 1 FACE CEILING MOUNTED, U.O.N.
			EXIT SIGN 1 FACE LEFT ARROW CEILING MOUNTED, U.O.N.

SWITCHES/CONTROLS

FLOOR	WALL	CEILING	
	$T		LIGHT SWITCH - TIME OPERATED
	$		LIGHT SWITCH - SINGLE POLE
	$D		LIGHT SWITCH - DIMMABLE SINGLE POLE
	$3D		LIGHT SWITCH - DIMMABLE THREE WAY (PROVIDES CONTROL IN TWO LOCATIONS)
	$K		LIGHT SWITCH - KEY OPERATED
	$P		LIGHT SWITCH - WITH PILOT LIGHT
	$TO		SWITCH - WITH THERMAL OVERLOAD
	$LV		LIGHT SWITCH - LOW VOLTAGE
	$OSD		LIGHT SWITCH - DIMMABLE OCCUPANCY SENSOR
	D		DIMMER
	OS	OS	OCCUPANCY SENSOR
	PC		PHOTOCELL
		PP	OCCUPANCY SENSOR POWER PACK
	OR		OVERRIDE SWITCH
			ELECTRICAL PUSH BUTTON

SINGLE LINE DIAGRAM

	CIRCUIT BREAKER SWITCH
	FUSE - INLINE
	FUSE SWITCH
	FUSED-SWITCH BUS PLUG
CB	CIRCUIT BREAKER - ENCLOSED
GFR	GROUND FAULT RELAY
A	AMMETER
M	DIGITAL METER U.O.N.
	TRANSFORMER - DELTA WYE-GROUNDED
XXXX XXXX XXXX XXXX	PANEL

SCOPE OF WORK

MINOR ALTERATION OF EXISTING COFFEE SHOP IN AIRPORT.

AEC MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
OFFICE: (909) 440-2855
Fax: (909) 533-2263
www.aemoreno.com

NEW CONCESSION STAND FOR SAN BERNARDINO TERMINAL AIRPORT

COFFEE SHOP - LEVEL 1

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	APPROVED BY	DATE
	INITIAL SUBMITTAL			12-02-2022

WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-8600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER ANTHONY WINSTON III No. E-20881 ELECTRICAL STATE OF CALIFORNIA

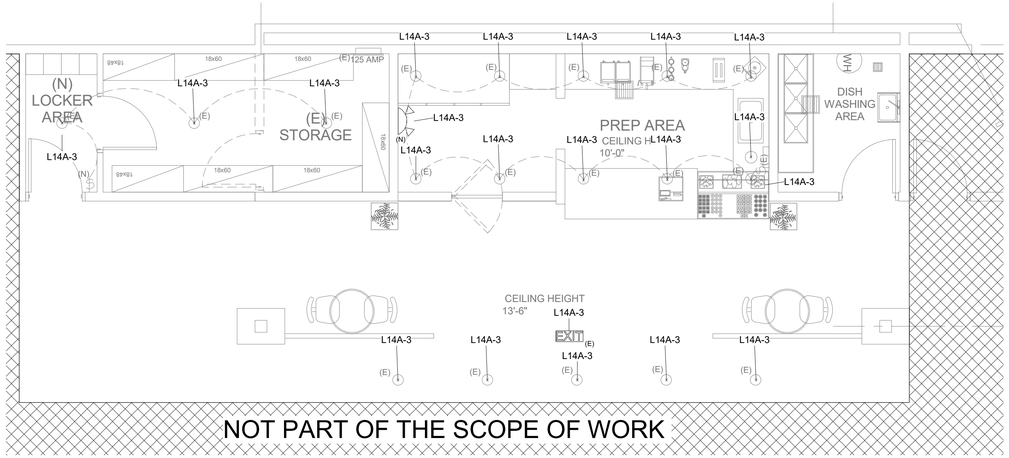
DATE: 10-27-2022

SHEET NO:
E1.0

SHEET NAME:
GENERAL NOTES

COFFEE SHOP - LIGHTING SCHEDULE

FIXTURE SYMBOL	DESCRIPTION	VOLTAGE (V)	POWER (W)
(E)	EXISTING RECESSED LIGHTS - MANUFACTURER TBD	120V	18W
EXIT (E)	EXISTING EXIT SIGN - MANUFACTURER TBD	120V	1.5W
(N)	NEW EMERGENCY LIGHTING - LITHONIA LIGHTING-ELM4L	120V	2.5W



1 COFFEE SHOP - LIGHT PLAN
Scale 1/4" = 1'-0"

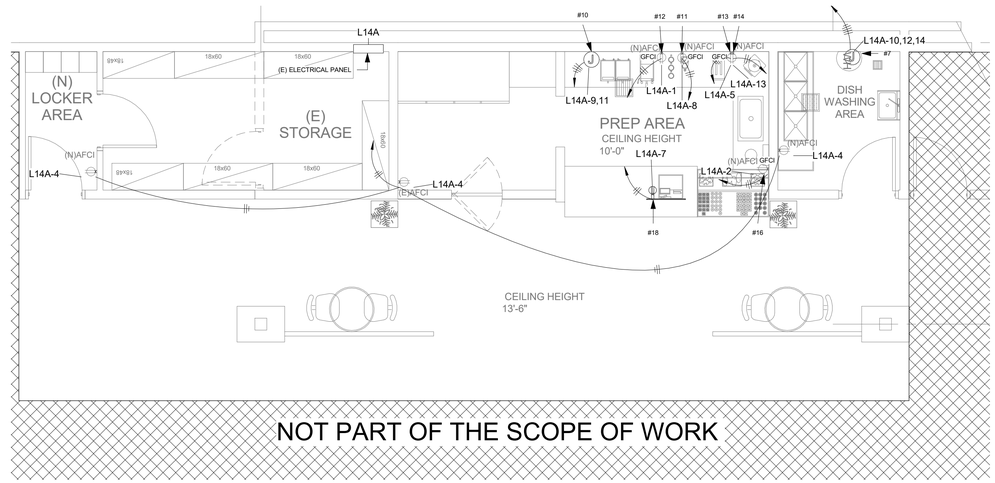
COFFEE SHOP

EQUIPMENT CHECKLIST

SYMBOL	ITEM #	ITEM	MANUFACTURER	MODEL NUMBER	NSF OR EQUIVALENTE. ANSI	SPECIALLY FABRICATED	GAS	ELECTRICAL	HOT WATER	COLD WATER	DIRECT WASTE	INDIRECT WASTE
7	1	WATER HEATER	STIEBEL ELTRON	SHC 2.5	NSF			●	●			●
10	2	COFFEE BREW MACHINE WITH HOT WATER DISPENSER	BUNN	DUAL SH DBC	NSF			●				
11	3	ESPRESSO MACHINE	GEVI	B0B586TC85	NSF			●				
12	4	COFFEE BEAN GRINDER	SBOLY	HY 1421	NSF			●				
13	5	SLICE TOASTER	HAMILTON BEACH	22785	NSF			●				
14	6	BLENDER	VEVOR	110V	NSF			●				
16	7	AIR CURTAIN MERCHANDISER	AVANTCO	BCAC-48	NSF			●				

NUMBERED KEY NOTES

7	NEW STIEBEL ELTRON MINI TANK ELECTRIC WATER HEATER, MODEL SHC 2.5
8	EXISTING 125 AMP PANEL
9	NEW 2'-6" X 1'5" ONE COMPARTMENT STAINLESS STEEL SINK
10	NEW STAINLESS STEEL DOUBLE COFFEE BREW MACHINE
11	NEW GEVI ESPRESSO MACHINE
12	NEW COFFEE BEAN GRINDER
13	NEW STAINLESS STEEL SLICE TOASTER
14	NEW BLENDER
15	NEW 3'-0"X 3'-6" SALOON DOOR
16	NEW DUAL SERVICE REFRIGERATED AIR CURTAIN MERCHANDISER
17	NEW STAINLESS STEEL NAPKIN DISPENSER
18	NEW REGISTER MACHINE



2 COFFEE SHOP - POWER PLAN
Scale 1/4" = 1'-0"

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NEW CONCESSION STAND FOR SAN BERNARDINO TERMINAL AIRPORT

COFFEE SHOP - LEVEL 1

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JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

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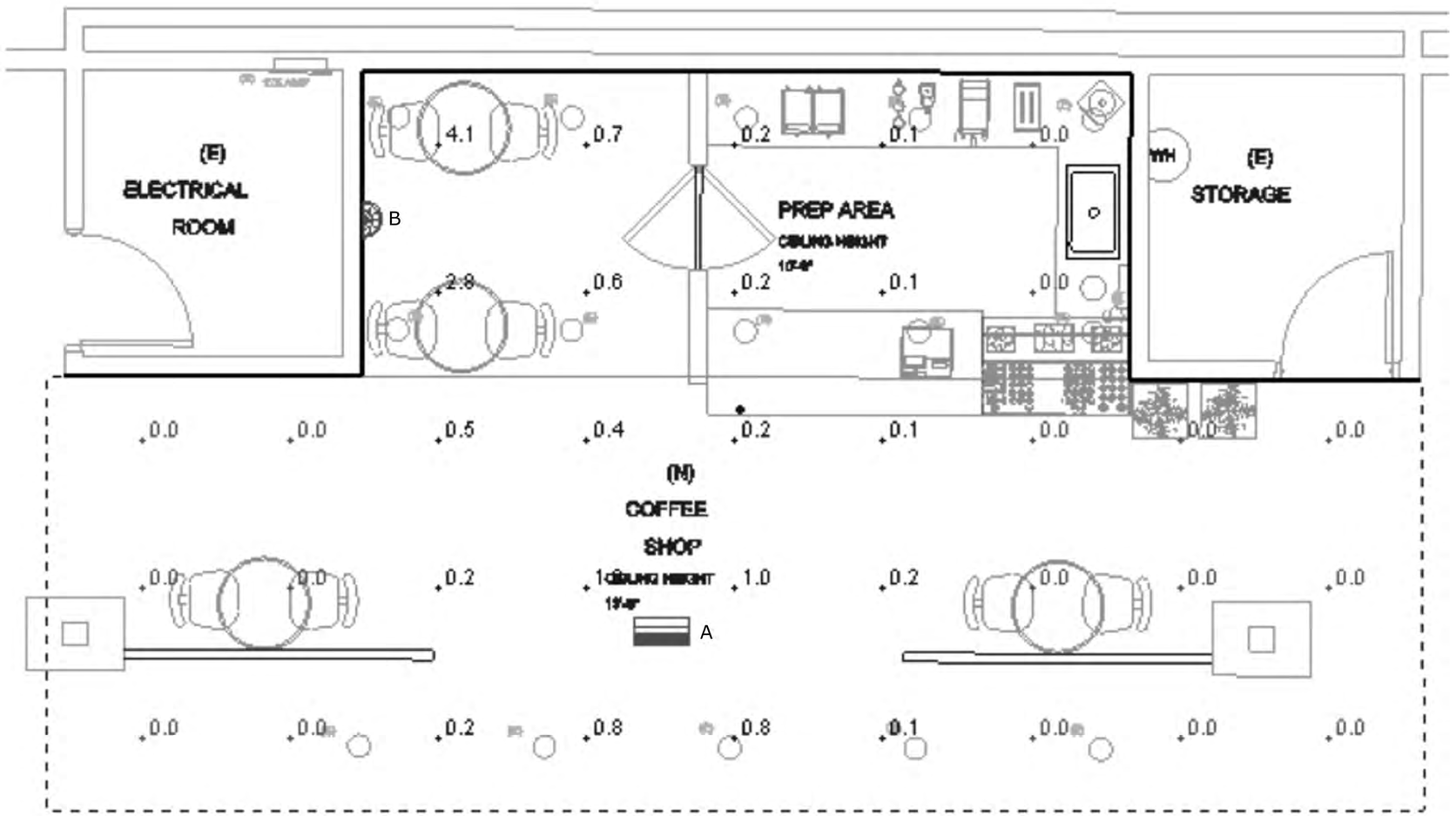
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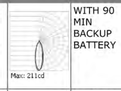
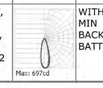
SHEET NO:
E2.0

SHEET NAME:
LIGHTING & POWER PLAN



COFFEE SHOP

Schedule

Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Lumen Multiplier	LLF	Wattage	Efficiency	Distribution	Polar Plot	Notes
	A		3	Lithonia Lighting	LHQM LED	QUANTUM LED EMERGENCY COMBO (ONE HEAD ONLY)		1	LHQM_LED.ies	Absolute	1	1	1.5	100%	DIRECT, SC-0=0.43, SC-90=0.5		WITH 90 MIN BACKUP BATTERY
	B		3	Lithonia Lighting	ELM4L	ELM4L SP640L		1	ELM4L.ies	345	1	1	2.5	100%	DIRECT, SC-0=0.53, SC-90=0.52		WITH 90 MIN BACKUP BATTERY

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
COFFEE SHOP	+	0.4 fc	4.1 fc	0.0 fc	N/A	N/A

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8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER
ANTHONY WINSTON
No. E-20881
ELECTRICAL
STATE OF CALIFORNIA

DATE: 10-27-2022

SHEET NO:
E2.1

SHEET NAME:
PHOTOMETRICS STUDY

LITHONIA LIGHTING

Catalog Number	
Notes	LIGHT A
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — Suitable for applications requiring both exit sign and unit equipment. Attractive, 8" tall, streamlined design is great for above-the-door applications and other tight fits. Optional high-output version with remote lamps are ideal for emergency egress lighting. **Certain airborne contaminants can diminish integrity of acrylic and/or polycarbonate.** Click here for Acrylic- Polycarbonate Compatibility Guide for suitable uses.

CONSTRUCTION — Engineering-grade thermoplastic housing is impact-resistant, scratch-resistant and corrosion-proof. UL94V-0 flame rating. UV-stable resin resists discoloration from natural and man-made light sources.

Rugged unibody housing snaps together with no additional fasteners. Faceplate and back cover are interchangeable on housing. Positive snap-fit tabs hold faceplate securely, yet are easily removable for lamp compartment access. Universal, directional chevrons inserts are easily removed and reinverted.

Uniform graphics illumination without shadows or hot spots. Letters are 6" high with 3/4" stroke, with 100 ft. viewing distance rating based upon UL924 standard.

LEDs mounted on primary circuit boards for cool illumination. Low-energy LED lamp in sign operates in normal (AC input) and emergency (DC input) modes.

Low-profile, integrated test switch/pilot light. Easily viewed bright red states indicator.

Unique track-and-swivel arrangement permits full range of direction of lamp head adjustment. Universal J-box mounting pattern. Two-lens access for maintenance. Conduit entry position on top of unit.

U.S. Patent No. 6,848,798; 6,499,866; 6,142,648; 5,797,673; D379,373; 5,526,251; D484,272; D477,672; 5,611,163; 5,446,502.

OPTICS — Twin LED lamp heads operate in emergency (DC input) mode with 12 series-parallel white LEDs in each head. Provides redundant light sources to ensure emergency lighting performance. The typical life of the emit LED lamp is 10 years.

ELECTRICAL — Dual-voltage input capability (120/277V). Edge connector on printed circuit board ensures long-term durability.

Current-limiting charger maximizes battery life and minimizes energy consumption. Provides low operating costs.

Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts.

Thermal compensation adjusts charger output to provide optimum charge voltage relative to ambient temperature.

Regulated charge voltage maintains constant-charge voltage over a wide range of line voltages. Prevents over/undercharging that shortens battery life and reduces capacity.

Filtered charger input minimizes charge voltage ripple and extends battery life.

AC/DC reset allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Single multi-color LED indicator is display two-state charging, test activation and three-state diagnostic test. Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection. Self-diagnostic testing for 30 seconds every 30 days, 30 minutes at 180-day interval, and 90 minutes annually. Diagnostics evaluation of LED light source, AC-to-DC transfer, charging and battery condition.

Battery: Sealed, maintenance-free nickel-cadmium battery delivers 90-minute capacity to emergency lamps. Two-state constant-current charge maximizes battery life and automatically recharges after battery discharge. Low-voltage disconnect prevents excessively deep discharge that can permanently damage the battery. Optional high-output battery to power both local and optional LED remote lamp heads simultaneously.

INSTALLATION — Universal mounting canopy for top-and-end mount. Back mount standard for single face only. Housing snaps to canopy with positive-locking tabs. Can locking pin secures housing to canopy.

Easily-removed mounting knockouts. Conduit entry knockout for 1/2" flexible conduit. J-box pattern on back panel.

Looking for Contractor Select-modify available configurations? Click here to visit Contractor Select™ spec sheet at go.lithonia.com/contractorselect.com

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** LHQM LED G

LHQM	LED									
Family	**Lamp type**		**Housing color**		**Letter color**		**Options**			
LHQM Stencil face, single face plate with extra face plate	LED	Two 1.5W/9.6V white LED	(blank)	White	R	Red	HO	High-output Ni-cad [1]	NOM	Meets Mexican standards [2]
			B	Black	G	Green	HO RD	High-output option, less lamp heads	NOM SALIDA	Salida signage (non-UL) [2]
							SD	Self-diagnostics	BAA	Buy American Act Compliant

Notes:
1 When operating ELMWM C, ELMRE T or ERE SQ T remotes off of HO battery, temperature range of LHQM LED is limited to 60° - 104°F (20° - 40°C), with a 48-hour battery recharge time.
2 Only available in HO or HO RD options. Not available with SD battery for options.
3 Only available in white. NOM standard.
4 Only compatible with self-diagnostic option, (on) HO SD.
5 Only compatible with HO or HO RD with SD option. See spec sheet ELA-Q-LITE.
6 Only available with HO or HO RD option. Not available with SD option. See spec sheet ELEMWM or ELEMR for more information and other color options. See page 2 for product images. When operating ELMWM T or ELMRE T remotes off of HO battery, temperature range of LHQM LED is limited to 60° -104°F (20° -40°C), with a 48-hour battery recharge time.
7 See spec sheet ELA-WG.
8 See spec sheet ELA-SMARTS.
9 When operating ELMWM T or ERE SQ T remotes off of HO battery, temperature range of LHQM LED is limited to 60° -104°F (20° -40°C), with a 48-hour battery recharge time.
10 Not available with SD. Only compatible with HO or HO RD option. When operating ERE SQ T remotes off of HO battery, temperature range of LHQM LED is limited to 60° -104°F (20° -40°C), with a 48-hour battery recharge time.

LHQM LED QUANTUM® Exit/Unit Combo

Accessories: Order as separate catalog number.			
ELA SD Q LED39	Single, LED indoor remote head, white, self-diagnostics, 9.6V [4,5]	ELA WG3	Wiregaard, 30" W x 13-1/2" H x 6" D [7]
ELA T SD Q LED39	Twin, LED indoor remote head, white, self-diagnostics, 9.6V [4,5]	ELA LQMS512	12" white stem kit [7]
ELA SD QWP LED39	Single, LED weather-proof remote head, gray, self-diagnostics, 9.6V [4,5]	ERE W SGL SQ M12	Single, LED indoor remote head, square, ivory white, .75W, 3.6V-12V voltage sensing [7,9]
ELA T SD QWP LED39	Twin, LED weather-proof remote head, gray, self-diagnostics, 9.6V [4,5]	ERE W T SQ M12	Twin, LED indoor remote head, square, ivory white, 1.5W, 3.6V-12V voltage sensing [7,9]
ELA B T SD QWP LED89	Twin, LED weather-proof remote head, black, self-diagnostics, 9.6V [4,5]	ERE GY SGL WP SQ M12	Single, LED weather-proof remote head, square, gray, 1W, 3.6V-12V voltage sensing [9,10]
ELMWM LP2200, DWNHSO SGL	Single LED Wet Location remote head, white, 1.2W, 190 lumens [6]		
ELMRE LP2300, SGL	Single LED indoor remote head, white, 1.2W, 150 lumens [6]	ERE GY T WP SQ M12	Twin, LED weather-proof remote head, square, gray, 2W, 3.6V-12V voltage sensing [9,10]
ELMWM LP2200, DWNHSO T	Twin LED Wet Location remote head, white, 1.2W, 220 lumens [6]		
ELMRE LP2205, T	Twin LED indoor remote head, white, 1.2W, 110 lumens [6]		

Indoor/Wet location ELMRE and ELMRW remotes


ELMRE LP2205, SGL

ELMRE LP2300, T


ELMRW LP2200, DOMEHSO SGL

ELMRW LP2200, DOMEHSO T

Remotes Compatibility Matrix								
LHQM LED Catalog	**Non-SD Indoor**		**Non-SD Outdoor**		**SD Indoor**		**SD Outdoor**	
	SINGLE	TWIN	SINGLE	TWIN	SINGLE	TWIN	SINGLE	TWIN
LHQM LED HO	ELMRE LP2205, SGL*	ELMRE LP2205, T*	ELMRW LP2200, SGL*	ELMRW LP2200, T*	X	X	X	X
LHQM LED HO RD	ELMRE LP2300, SGL*	ELMRE LP2300, T*	ELMRW LP2200, SGL*	ELMRW LP2200, T*	X	X	X	X
LHQM LED HO SD	X	X	X	X	ELA SD Q LED39	ELA T SD Q LED39	ELA SD QWP LED89	ELA T SD QWP LED89
LHQM LED HO RD SD	X	X	X	X	ELA SD Q LED39	ELA T SD Q LED39	ELA SD QWP LED89	ELA T SD QWP LED89

*Available as alternate values. See spec sheet for more information. When operating twin configurations (ELMRW/ELMRE/ERE SQ) the temperature range of the LHQM LED HO is limited to 60° -104°F (20° - 40°C), with a 48-hour battery recharge time.

LHQM LED QUANTUM® Exit/Unit Combo

SPECIFICATIONS

Electrical Primary Circuit				
	Typical LED life†	Supply voltage	Max amps	Max watts
Red and green LED	10 years	120	.05	4.3
		277	.03	4.3

BATTERY

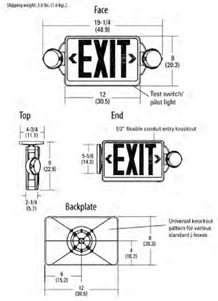
Ni-Cad				
Voltage	Typical Shelf life†	Typical life†	Maintenance†	Temperature range*
9.6	3 years	6-8 years	none	50-104°F (10-40°C)

1 Based on continuous operation.
2 At 77°F (25°C).
3 All life safety equipment, including emergency lighting, path of egress, must be maintained, serviced and tested in accordance with all National Fire Protection Association and local codes. Failure to perform the required maintenance, service or testing could jeopardize the safety of occupants and will void all warranties.
4 Temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity.
5 Battery life is negatively impacted by many variables including temperature, charging rate, number of cycles and deep discharges due do long periods of time without AC power.

Remote Output Capacity			
Standard unit	Combo	Combo/high-output battery (HO)	Combo/high-output (HO) and no heads (HO)
9VA	6VA	28W	49W

MOUNTING

All dimensions are inches (centimeters). Shipping weight: 3.0 lbs (1.4 kgs.)



LAMP PHOTOMETRICS

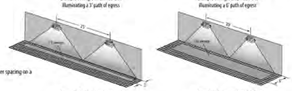
QUANTUM LED SERIES – SINGLE COVERAGE
3W Total White LEDs
Using a single unit at a typical 7.5' mounting height delivers an average illuminance of 1.0 FC over a distance of 24' on a 2' path of egress and 10' on a 6' path of egress.



Example of single LHQM LED exit illuminating a 2' path of egress

Example of single LHQM LED exit illuminating a 6' path of egress'

QUANTUM LED SERIES – MULTIPLE COVERAGE
3W Total White LEDs
Using multiple units at a typical 7.5' mounting height delivers 23' center-to-center spacing on a 2' path of egress and 20' center-to-center spacing on a 6' path of egress.



Example of multiple LHQM LED exits illuminating a 2' path of egress

Example of multiple LHQM LED exits illuminating a 6' path of egress.

EXTENDED RUN-TIME FOR HIGH-OUTPUT EXITS

Product	Run time
LHQM LED HO (no remotes)	3.6 hours
LHQM LED HO RD (no remotes)	7.5 hours

LITHONIA LIGHTING

Catalog Number	
Notes	LIGHT B
Type	

Contractor Select™

ELM4L

Quantum® Contemporary Commercial LED Emergency Light



The Lithonia Lighting® Quantum® ELM4L Emergency Light is suitable for emergency lighting applications such as stairways and hallways. Its high performance LED lamp heads makes the ELM4L ideal for safely illuminating the path of egress for applications requiring attractive LED unit equipment with quick installation and unparalleled performance for 7.5' to 24' mounting heights. It can be wall or ceiling mounted and will provide 90 minutes of emergency power in the case of power loss.

FEATURES:
- Test switch and status indicator.
- UL indoor damp location 50°F to 104°F (10°C to 40°C) listed standard.
- For use with 120-277VAC input

† Small Battery Chargers Certified in the CA Title 20 Appliance Efficiency Database.

Catalog Number	UPC	Description	Supply Voltage	Input Wattage		Input Amps		Pallet Qty
				120	277	120	277	
ELM4L	195729196287	Quantum® LED Adjustable Optics 640 lumens, 6.6W, 1 emergency Light, White housing	120-277VAC, 50/60Hz	3.3D	3.3D	0.03Σ	0.03Σ	432

Accessories: Order as separate catalog number.	
ELA WG3	Wiregaard 15-1/4" W x 13-3/4" H x 6" D (Rack mount only). See spec sheet ELA-WG.
WPPS1UNV-W	Wire protective careful shield (must be used for wet location applications)

Specifications

INTENDED USE:
Provides a minimum of 90 minutes illumination for the rated wattage upon loss of AC power to meet and exceed code required emergency lighting. Ideal for applications requiring attractive LED unit equipment with quick installation and unparalleled performance for mounting heights from 7.5' TO 30'.

CONSTRUCTION:
The housing is a standard white thermoplastic with a compact and low-profile contemporary design. It is 5VA flame rated, impact resistant, scratch resistant and corrosion proof. The UV-stable resin resists discoloration from natural and man-made light sources. The back plate contains a universal j-box mounting pattern to facilitate ease of installation on a wide variety of j-boxes and the front housing allows tool-less access for ease of maintenance.

OPTICS:
The typical life of the LED is 10 years. Two 3.3W LED Lamps.

ELECTRICAL:
Multi-voltage 120-277, 50/60Hz standard. Emergency unit provided with test switch, status indicator and rechargeable battery. Sealed, maintenance-free nickel-cadmium battery provides 90 minutes of emergency power.

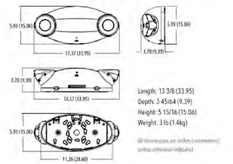
INSTALLATION:
Wall and ceiling mount. Tool-less removal of front cover from back-plate for ease of installation and maintenance.

LISTINGS:
UL damp location listed standard and wet location listed when used with the WPPS accessory, all at 50-104°F (10-40°C). Meets or exceeds all applicable requirements for UL 924, NFPA 101 (current Life Safety Code), NFPA 70 (NEC), NOM (Norma Oficial Mexicana), California Energy Commission Title 20 section 1605.3 (V)(A)1, FCC Title 47, Part 15, Subpart B and OSHA. List and labeled to comply with Canadian Standards C22.2 No. 141-10.

WARRANTY:
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/contractor-support/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25 °C.
Specifications subject to change without notice.

Dimensions



Length: 13 3/8 (33.95)
Depth: 3 45/64 (9.39)
Height: 5 15/16 (15.06)
Weight: 3 lb (1.4kg)

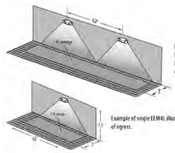
All dimensions are inches (centimeters) unless otherwise indicated.

Spacing guidelines

Maximum Spacing Guidelines — ELM4L [1]						
Mounting Height	**Illumination Level**	**Single Luminaire**		**Multiple Luminaire**		**Application Notes**
		2' Path of Egress	**6' Path of Egress**	**2' Path of Egress**	**6' Path of Egress**	
7.5'	1FC Avg'	62'	58'	67'	60'	150 Corridor, 8' wide, and 12' high with 80/50/20 reflectances
10'	1FC Avg'	62'	58'	67'	60'	
13'	1FC Avg'	57'	49'	66'	58'	
18'	1FC Avg'	52'	48'	64'	66'	Retail open area: 200' X 75' X 30' with 80/50/20 reflectances
12'	1FC Avg'	52'	48	62'	59'	
16'	1FC Avg'	52'	44	61'	58'	
20'	1FC Avg'	44'	42'	60'	58'	
24'	1FC Avg'	34'	34	42'	58'	

Notes:
1 Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max:min ration of 40:1.

*Note: To see complete photometric report or download the .ies file for this product, visit Lithonia Lighting EL4M4L and EL4M4L home page.



MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
OFFICE: (909) 440-2855
Fax: (909) 553-2263
www.aemoreno.com

NEW CONCESSION STAND FOR SAN BERNARDINO TERMINAL AIRPORT

COFFEE SHOP - LEVEL 1

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	DATE
	INITIAL SUBMITTAL		12-05-2022

WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6000
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER ANTHONY WINSTON No. E-20881 ELECTRICAL STATE OF CALIFORNIA

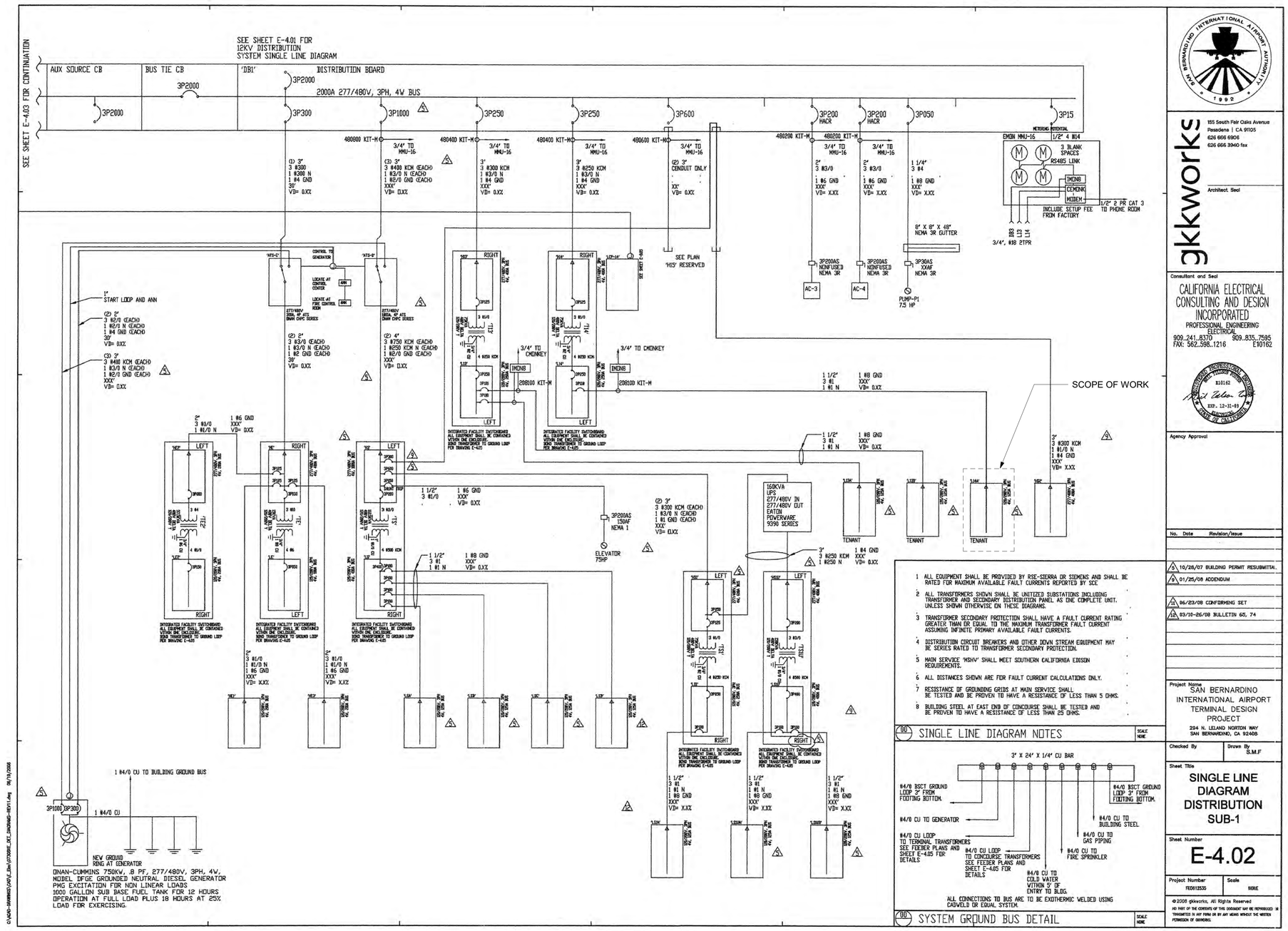
DATE: 10-27-2022

SHEET NO:
E2.2

SHEET NAME:
PHOTOMETRICS STUDY DETAILS

GENERAL NOTES

1. PANEL IS EXISTING AND IS TO REMAIN AS IS. PANEL BEING USED IS L14R. SEE EXISTING SINGLE LINE DIAGRAM ON SHEET E4.0



gkkworks
155 South Fair Oaks Avenue
Pasadena | CA 91105
626 666 6906
626 666 3940 fax
Architect Seal

Consultant and Seal
CALIFORNIA ELECTRICAL CONSULTING AND DESIGN INCORPORATED
PROFESSIONAL ENGINEERING
ELECTRICAL
909..241..8370 909..835..7595
FAX: 562..598..1216 E10162

Agency Approval

No.	Date	Revision/Issue
3	10/26/07	BUILDING PERMIT RESUBMITTAL
2	01/25/08	ADDENDUM
1A	06/23/08	CONFORMING SET
1B	03/10-25/09	BULLETIN 65, 74

Project Name
SAN BERNARDINO INTERNATIONAL AIRPORT TERMINAL DESIGN PROJECT
294 N. LELAND NORTON WAY
SAN BERNARDINO, CA 92408

Checked By | Drawn By S.M.F

Sheet Title
SINGLE LINE DIAGRAM DISTRIBUTION SUB-1

Sheet Number
E-4.02

Project Number FE0612535 | Scale NONE

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WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-9600
info@winstoneng.com www.winstoneng.com

DATE: 10-27-2022

SHEET NO: E4.0

SHEET NAME: EXISTING SINGLE LINE DIAGRAM

AEC MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
OFFICE: (909) 440-2855
Fax: (909) 533-2263
www.aemoreno.com

NEW CONCESSION STAND FOR SAN BERNARDINO TERMINAL AIRPORT

COFFEE SHOP - LEVEL 1

NO.	REVISION	DATE	REVISED BY	APPROVED BY
	INITIAL SUBMITTAL	12-02-2022		

Branch Panel: L14A

Location:
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 208/120 THREE PHASE
Phases: 3
Wires: 4

A.I.C. Rating: EXISTING
Mains Type:
Mains Rating: 125 A
MCB Rating: 125 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
L14A-1	Receptacle - EQ #12	20 A	1	150 VA	180 VA					1	20 A	Receptacle - EQ #16	L14A-2
L14A-3	Lighting - ENTIRE COFFEE SHOP	20 A	1			346 VA	540 VA			1	20 A	Receptacle - STORAGE	L14A-4
L14A-5	Receptacle - EQ #13	20 A	1					850 VA					L14A-6
L14A-7	Receptacle - POS	20 A	1	180 VA	1350...					1	20 A	Receptacle - EQ #11	L14A-8
L14A-9	EQ #10	30 A	2			2490...	4000...			3	45 A	(N) WATER HEATER	L14A-10
L14A-11	--	--	--					2490...	4000...	--	--	--	L14A-12
L14A-13	Receptacle - EQ #14	20 A	1	1500...	4000...					--	--	--	L14A-14
L14A-15													L14A-16
L14A-17													L14A-18
L14A-19													L14A-20
L14A-21													L14A-22
L14A-23													L14A-24
L14A-25													L14A-26
L14A-27													L14A-28
L14A-29													L14A-30
L14A-31													L14A-32
L14A-33													L14A-34
L14A-35													L14A-36
L14A-37													L14A-38
L14A-39													L14A-40
L14A-41													L14A-42
			Total Load:	7360 VA		7376 VA		7340 VA					
			Total Amps:	61 A		61 A		61 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	346 VA	125.00%	433 VA		
Receptacle	4750 VA	100.00%	4750 VA	**Total Conn. Load:**	22076 VA
General Loads	16980 VA	100.00%	16980 VA	**Total Est. Demand:**	22163 VA
				Total Conn. Current:	61 A
				Total Est. Demand Current:	62 A

Notes:

AEC MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
OFFICE: (909) 440-2855
Fax: (909) 533-2263
www.aemoreno.com

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APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

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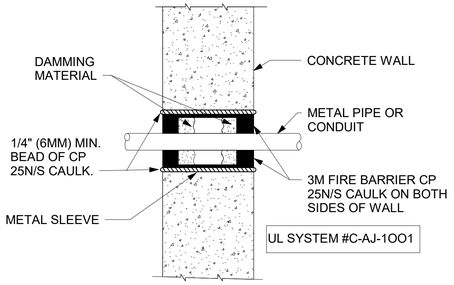
WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER
ANTHONY WINSTON
No. E-20881
ELECTRICAL
STATE OF CALIFORNIA

DATE: 10-27-2022

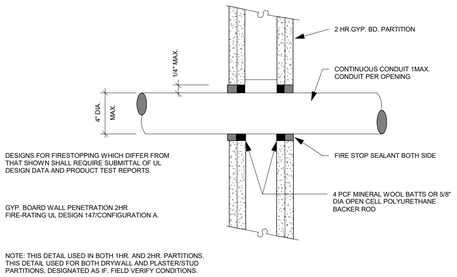
SHEET NO:
E4.1

SHEET NAME:
PANEL SCHEDULES



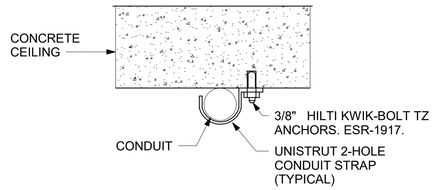
CONDUIT PENETRATION-CONCRETE WALL

Scale 12" = 1'-0"



FIRE RATED-CONDUIT PENETRATION DETAIL

Scale 12" = 1'-0"

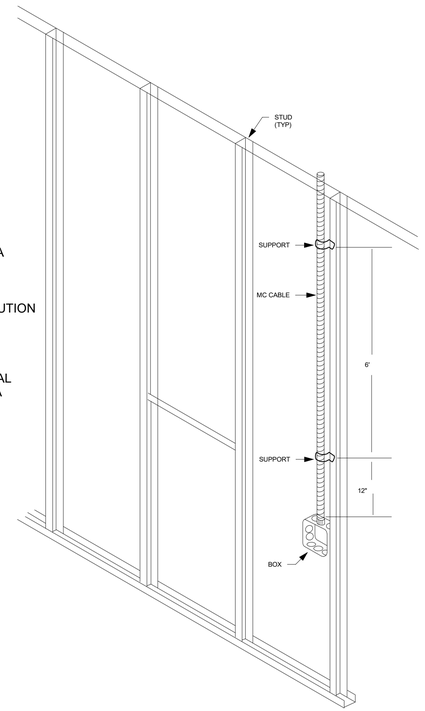


CONDUIT SUPPORT

Scale 12" = 1'-0"

USE OF MC CABLES FOR BRANCH WIRING SHALL COMPLY WITH THE FOLLOWING:

1. CONVENTIONAL CONDUIT AND WIRES SHALL BE PROVIDED FROM PANEL BOARD TO A JUNCTION BOX LOCATED IN AN ACCESSIBLE CEILING SPACE.
2. MC CABLE WITH FULLY RATED GROUND WIRE CAN BE RUN FROM JUNCTION BOX TO RESPECTIVE DEVICE. JUNCTION BOX SHALL BE LOCATED AS CLOSE TO THE DISTRIBUTION SIDE AS POSSIBLE.
3. NO MC CABLE SHALL RUN EXPOSED OR VISIBLE.
4. USE MANUFACTURER APPROVED TOOLS AND METHODS FOR CUTTING CABLES. METAL JACKET SHALL BE CAREFULLY CUT WITHOUT DAMAGING THE CONDUCTOR. INSERT A PLASTIC BUSHING TO PROTECT WIRING
5. SUPPORT MC CABLE AND SECURE AT INTERVAL NO EXCEEDING 6'-0". (SEE DETAIL)



MC CABLE BRANCH WIRING DETAIL

Scale 12" = 1'-0"

AEC MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
OFFICE: (909) 440-2855
Fax: (909) 533-2263
www.aemoreno.com

NEW CONCESSION STAND FOR SAN BERNARDINO TERMINAL AIRPORT

COFFEE SHOP - LEVEL 1

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	DATE
	INITIAL SUBMITTAL		12-20-2022

WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER
ANTHONY WINSTON WU
No. E-20881
ELECTRICAL
STATE OF CALIFORNIA

DATE: 10-27-2022

SHEET NO:
E5.0

SHEET NAME:
ELECTRICAL DETAILS

PLUMBING SPECIFICATIONS:

1. GENERAL

A. CONTRACTOR SHALL PERFORM ALL WORK SO AS TO CONFORM TO LOCAL, STATE AND NATIONAL CODES, AND THE REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.

B. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO VERIFY LOCATION, ELEVATIONS AND SIZES OF ALL EXISTING PLUMBING AND INFORM THE ARCHITECT OF ANY DISCREPANCIES.

C. FOR EXACT SPECIFICATIONS, MOUNTING HEIGHTS, COLORS, AND LOCATIONS OF ALL PLUMBING FIXTURES, REFER TO ARCHITECTURAL DRAWINGS.

D. ACCURATE AS-BUILT DRAWINGS SHALL BE MADE DURING CONSTRUCTION AND SUBMITTED FOR APPROVAL UPON COMPLETION OF INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION, AND SERVICES NECESSARY FOR THE COMPLETION OF THE WORK.

F. THESE DRAWINGS SHOW THE GENERAL SCHEME OF INSTALLATION AND ARE DIAGRAMMATIC IN SCOPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ARCHITECT AND ALL OTHER TRADES. THIS INCLUDES COORDINATING THE LOCATION, SIZE AND ELEVATION OF ALL OPENINGS.

G. CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING AND START-UP OF THE SYSTEM. CONTRACTOR SHALL FILE, SECURE AND PAY FOR ALL NECESSARY APPROVALS, PERMITS AND INSPECTIONS. ALL WORK SHALL BE GUARANTEED TO BE FREE FROM DEFECT FOR ONE YEAR AFTER ACCEPTANCE OF THE INSTALLATION BY OWNER. ALL WORK SHALL BE IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE.

H. THE PLUMBING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE. CONTRACTOR TO COORDINATE TESTS WITH LOCAL OFFICIALS.

I. DETAILS OF CONSTRUCTION AND OF WORKMANSHIP WHERE NOT SPECIFICALLY DESCRIBED HEREIN OR INDICATED ON THE DRAWINGS SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL. IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE COMPLETE SYSTEMS, LEFT IN GOOD WORKING ORDER, READY FOR OPERATION.

2. INSTALLATION

A. ALL HOT WATER PIPING SHALL BE INSULATED PER TABLE 123-A, SECTION 123 OF THE BUILDING ENERGY EFFICIENCY STANDARDS, 2019 EDITION.

B. LAVATORIES IN RESTROOMS SHALL HAVE 0.4 GPM FLOW RESTRICTORS ON HOT WATER SUPPLY. PROVIDE STRAINER DRAIN AND OVERFLOW ON ALL SINKS.

C. CONDENSATE PIPING SHALL BE INSTALLED AT A SLOPE OF 1%.

D. SEWER PIPING SHALL BE INSTALLED AT A SLOPE OF 2%.

E. WRAP ALL IRON AND COPPER PIPE AND FITTINGS BELOW SLAB OR GRADE WITH 8 MIL POLYETHYLENE WRAP AND 6" MINIMUM ENVELOPE OF CLEAN SAND ALL AROUND PIPE IN ACCORDANCE WITH ANSI/AWWA STANDARD C105/A21.5-82.

F. WATER PIPING SHALL BE TYPE "K" BELOW GRADE TO 5 FEET OUTSIDE OF BUILDING AND TYPE "L" ABOVE GRADE, HARD DRAWN COPPER TUBING, WITH WROUGHT COPPER FITTINGS. BRAZE ALL JOINTS WITH LEAD-FREE BRAZING ALLOY. ALL WATER PIPING SHALL BE INSULATED.

G. CONDENSATE DRAIN PIPING SHALL BE TYPE "M" HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS, 95/5% ANTIMONY/TIN SWEAT JOINTS. RUN CONDENSATE DRAIN PIPING UNDER THE ROOF DECK. INSULATE ALL CONDENSATE DRAIN PIPING WITHIN BUILDING INTERIOR.

H. ALL ROOF PENETRATIONS SHALL RECEIVE LEAD PIPE FLASHING WITH SCREW CLAMP AND ELASTOMERIC SEALANT AND BE HOT ASPHALT PATCHED WITH 4 PLY. ALL WORK SHALL BE DONE BY AN APPROVED ROOFING CONTRACTOR.

I. WHERE DEVICES REQUIRING ACCESS (VALVES, CLEANOUTS, ETC.) WOULD OTHERWISE BE RENDERED INACCESSIBLE BY BUILDING CONSTRUCTION, PROVIDE FRAMED ACCESS DOOR. ACCESS DOOR FINISHES SHALL BE COORDINATED WITH ARCHITECT.

3. SCOPE OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING AND INSTALLATION OF ALL FIXTURES, MATERIALS, PIPING, AND COMPONENTS AS REQUIRED FOR A COMPLETE AND OPERATIONALLY FUNCTIONAL SYSTEM. SCOPE OF WORK SHALL INCLUDE BUT NOT BE LIMITED TO:

A. INSTALLATION OF ABOVE GROUND SANITARY DRAIN WASTE AND VENT PIPING.
B. INSTALLATION OF CLEANOUTS IN SANITARY DRAINAGE SYSTEMS.
C. INSTALLATION OF DOMESTIC HOT AND COLD WATER PIPING INCLUDING ANTI-WATER HAMMER SHOCK ABSORBERS, VALVES, STOP VALVES, FLEX-SUPPLIES, DIELECTRIC UNIONS BETWEEN DISSIMILAR PIPING MATERIALS, ETC.
D. INSTALLATION OF FIXTURES INCLUDING WALL HANGERS, SUPPORTS, STOP VALVES, FLEX- SUPPLIES, DRAINS, TRAPS, STRAINERS, FAUCETS, SOAP DISPENSERS, ESCUTCHEONS, SEATS, AND OTHER DEVICES AS SHOWN ON THE DRAWINGS AND INDICATED IN THE SCHEDULE OF PLUMBING FIXTURES.
E. TESTING OF THE PLUMBING SYSTEM INCLUDING AIR OR WATER TEST OF DRAINAGE SYSTEM ROUGHINGS, SMOKE TEST OF FINISHED DRAINAGE SYSTEM AND PRESSURE TEST OF DOMESTIC WATER SYSTEMS.
F. DISINFECTION OF THE DOMESTIC WATER SUPPLY SYSTEM.
G. INSTALLATION OF FIBERGLASS INSULATION, FITTING COVERS, AND JACKETS ON ALL HOT AND COLD DOMESTIC WATER PIPING.
H. DESIGN, FURNISHING, AND INSTALLATION OF SEISMIC BRACING.
I. CUTTING AND PATCHING AS REQUIRED.
J. PERMITS, INSPECTIONS, APPROVALS, AND CERTIFICATES, INCLUDING FEES.
K. 1 YEAR FULL GUARANTEE OF ALL WORKMANSHIP.

4. SANITARY DRAINAGE

A. BELOW GRADE SANITARY WASTE AND VENT PIPING SHALL BE ABS SOLID WALL SCHEDULE 40 ASTM D 2661, FITTINGS SHALL BE MANUFACTURED TO ASTM 3311 ABOVE GROUND SANITARY WASTE AND VENT PIPING SHALL BE NO-HUB CAST I RON MANUFACTURED TO ASTM A74 OR CISPI 301.

B. PIPING ARRANGED IN GROUPS OF TWO OR MORE LINES, WHICH PENETRATE TWO OR MORE FLOORS, SHALL BE ENCLOSED IN SHAFT HAVING A FIRE RESISTANCE RATING IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, 2019 CALIFORNIA BUILDING CODE.

C. CLEANOUTS FOR SANITARY DRAINAGE SYSTEMS SHALL BE LOCATED IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE.

D. ALL VENT PENETRATIONS THROUGH BUILDING ROOF SHALL BE MADE WATER-TIGHT BY THE USE OF PROPER FLASHING MATERIALS. SUBMIT FLASHING DETAILS FOR APPROVAL BY THE ARCHITECT.

E. VENTS SHALL TERMINATE NOT LESS THAN 6" ABOVE ROOF. VENTS SHALL NOT TERMINATE BELOW OR WITHIN 10' HORIZONTALLY OF ANY DOOR, WINDOW, FRESH AIR INTAKE OR OTHER VENTILATION OPENING. WHERE 10' HORIZONTAL CLEARANCE CANNOT BE MAINTAINED, EXTEND VENT TO AT LEAST 3' ABOVE VENTILATION OPENING.

PLUMBING SPECIFICATIONS (CONT.):

4. SANITARY SEWER (CONT.)

C. CLEANOUTS FOR SANITARY DRAINAGE SYSTEMS SHALL BE LOCATED IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE.

D. ALL VENT PENETRATIONS THROUGH BUILDING ROOF SHALL BE MADE WATERTIGHT BY THE USE OF PROPER FLASHING MATERIALS. SUBMIT FLASHING DETAILS FOR APPROVAL BY THE ARCHITECT.

E. VENTS SHALL TERMINATE NOT LESS THAN 6" ABOVE ROOF. VENTS SHALL NOT TERMINATE BELOW OR WITHIN 10' HORIZONTALLY OF ANY DOOR, WINDOW, FRESH AIR INTAKE OR OTHER VENTILATION OPENING. WHERE 10' HORIZONTAL CLEARANCE CANNOT BE MAINTAINED, EXTEND VENT TO AT LEAST 3' ABOVE VENTILATION OPENING.

5. DOMESTIC WATER

A. DOMESTIC COLD AND HOT WATER PIPING SHALL BE TYPE "L",HARD-DRAWN COPPER TUBE. FITTINGS SHALL BE WROUGHT COPPER. SWEAT JOINTS SHALL BE MADE USING 95%-5%, LEAD-FREE ANTIMONY/TIN SOLDER.

B. ALL POTABLE WATER PIPING SHALL BE DISINFECTED AS PER AWWA STANDARD C601-54 AND AS REQUIRED BY THE LOCAL BUILDING AND HEALTH DEPARTMENT CODES.

C. ANTI WATER-HAMMER SHOCK ABSORBERS SHALL BE WATTS SERIES 15 SIZED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

D. PROVIDE STOP VALVES FOR ALL DOMESTIC WATER CONNECTIONS TO FIXTURES EXCEPT WHERE GATE VALVES ARE INDICATED ON THE DRAWINGS OR FAUCET IS PROVIDED WITH INTEGRAL STOPS.

E. PROVIDE CHROME PLATED, BRASS ANGLE STOP VALVES FOR ALL FIXTURES NOT HAVING INTEGRAL STOPS.

F. ALL PIPE, FITTINGS, FIXTURES, ETC. THAT CONTACT POTABLE WATER FOR HUMAN CONSUMPTION SHALL SHOW APPROVAL TO NSF 61, ANNEX G. REFERENCE SECTION 604.11, CALIFORNIA PLUMBING CODE, 2019 EDITION, AND HEALTH AND SAFETY CODE SECTION 116875.

6. CONDENSATE DRAIN

A. PIPING FOR PRIMARY AND SECONDARY CONDENSATE DRAINAGE SHALL BE HARD DRAWN COPPER TUBE, MINIMUM DWV WEIGHT.

B. FITTINGS FOR CONDENSATE DRAINAGE PIPING SHALL BE WROUGHT COPPER WITH 95/5% ANTIMONY/TIN SWEAT JOINTS.

C. TRAP SEAL DEPTH FOR AIR CONDITIONING CONDENSATE DRAINS SHALL NOT BE LESS THAN:

AC UNIT STATIC PRESSURE	MIN. TRAP SEAL DEPTH
LESS THAN 1" W.C.	3"
1" TO 2" W.C.	4"
MORE THAN 2" W.C.	6"

7. NATURAL GAS

A. GAS SYSTEM SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS. VALVE SHALL BE LUBRICATED PLUG TYPE, SIMILAR TO CRANE #250.

B. ALL BRANCH CONNECTIONS SHALL BE MADE ON THE TOP OR SIDE OF HORIZONTAL LINES.

C. GAS PIPING SHALL NOT BE RUN IN OR THROUGH SUPPLY AIR DUCTS, CLOTHES CHUTES, CHIMNEYS, VENTS, OR DUMBWAITERS.

D. VALVES, UNIONS OR RUNNING THREAD SHALL NOT BE LOCATED IN ANY AIR PLENUM.

E. PORTIONS OF GAS PIPING SYSTEMS INSTALLED IN CONCEALED LOCATIONS SHALL NOT HAVE UNIONS, TUBING FITTINGS, OR RUNNING THREADS.

F. HANGERS AND SUPPORTS SHALL BE OF MATERIAL OF SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED. HANGERS AND STRAPPING MATERIAL SHALL BE OF SIMILAR MATERIALS AS THE PIPING TO AVOID GALVANIC ACTION.

G. INTERVAL OF SUPPORT: GAS PIPING SHALL BE SUPPORTED AT DISTANCES NOT EXCEEDING THE SPACING SPECIFIED IN TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE.

H. PROVIDE INDIVIDUAL VALVE FOR EACH GAS OUTLET. THE VALVE SHALL BE ACCESSIBLE AND ADJACENT TO THE APPLIANCE.

I. PROVIDE A UNION BETWEEN EACH APPLIANCE AND THE APPLIANCE GAS VALVE.

J. GAS OUTLETS WHICH DO NOT CONNECT TO APPLIANCES SHALL BE CAPPED GAS-TIGHT.

K. PROVIDE A DRIP LEG AHEAD OF EACH APPLIANCE SHUTOFF VALVE.

L. PORTIONS OF THE GAS PIPING SYSTEM INSTALLED IN CONCEALED LOCATIONS SHALL BE TESTED BEFORE THE PIPING IS COMPLETELY CONCEALED.

M. THE GAS PIPING SYSTEM SHALL BE TESTED WITH AIR OR AN INERT GAS. THE SYSTEM SHALL BE TESTED TO A PRESSURE OF 1 1/2 TIMES THE SYSTEM WORKING PRESSURE, BUT NOT LESS THAN 3 PSI. GAS PIPING SYSTEMS SHALL MAINTAIN THE FULL-TEST PRESSURE FOR A PERIOD OF 10 MINUTES.

N. THE GAS PIPING SYSTEM SHALL BE PURGED TO A SAFE LOCATION. PIPING SHALL NOT BE PURGED INTO THE COMBUSTION CHAMBER OF AN APPLIANCE.

8. HANGERS AND SUPPORTS

A. ALL FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE PIPING SYSTEM. SEE "FIXTURES" SECTION OF "NOTES AND SPECIFICATIONS" AND FIXTURE SCHEDULE NOTES.

B. MAXIMUM SPACING OF SUPPORTS FOR VERTICAL PIPING SHALL NOT EXCEED:

TYPE OF PIPING	MAXIMUM SPACING
HUBLESS CAST IRON SOIL LINES	AT BASE AND EACH FLOOR NOT TO EXCEED 15'
THREADED STEEL PIPE	AT EVERY OTHER FLOOR NOT TO EXCEED 25'
COPPER TUBE	AT EVERY FLOOR NOT TO EXCEED 10'
SCHEDULE 40 PVC	AT EVERY FLOOR PLUS MID-FLOOR GUIDES

PROVIDE RISER CLAMPS, WALL BRACKET HANGER, ETC. AS REQUIRED

C. MAXIMUM SPACING OF SUPPORTS FOR HORIZONTAL PIPING SHALL NOT EXCEED:

TYPE OF PIPING	MAXIMUM SPACING
HUBLESS CAST IRON SOIL PIPE	AT EVERY OTHER JOINT (EVERY JOINT WHERE OVER 4')
THREADED STEEL PIPE (3/4" OR LESS)	AT 10' INTERVALS
THREADED STEEL PIPE (1" OR LARGER)	AT 12' INTERVALS
COPPER TUBE (1-1/2" OR LESS)	AT 6' INTERVALS
COPPER TUBE (2" OR LARGER)	AT 10' INTERVALS
SCHEDULE 40 PVC	AT 4' INTERVALS

D. ALL RISERS SHALL BE SUPPORTED AT THE BASE.

E. PROVIDE CAPABILITY FOR EXPANSION AND CONTRACTION IN ALL PIPING AS INDICATED BELOW:

TYPE OF PIPING	TYPE OF PROVISIONS
DRAIN LINES IN UNHEATED AREAS	EXPANSION FITTING AT 125'
DOMESTIC HOT WATER LINES	EXPANSION LOOP AT 100'

GENERAL NOTES:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE AS SPECIFIED AND IN ACCORDANCE WITH ALL APPLICABLE CODES, LAWS, ORDINANCES, PERMITS AND OTHER CONTRACT DOCUMENTS
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF ALL NEW CONSTRUCTION ON THE SITE VERIFY
3. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND DIMENSIONS, AND VERIFY EXACT LOCATIONS AND ELEVATIONS OF PIPING POINTS ON CONNECTION BY MEANS OF PHYSICAL EXCAVATION AND SELECTIVE DEMOLITION BEFORE STATING WORK. SHOULD A DISCREPANCY APPEAR IN THE CONTRACT DOCUMENTS OR BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTION ON HOW TO PROCEED
4. SEWER,WATER, AND STORM DRAIN SYSTEMS INDICATED IN THESE DRAWINGS SHALL EXTEND TO PLUMBING/CIVIL POINTS OF CONNECTION AT 5' OUTSIDE OF THE BUILDING(S) UNLESS OTHERWISE NOTED. CONTINUATION OF THESE PIPING SYSTEMS ARE INDICATED ON THE CIVIL DRAWINGS WITH CORRESPONDING ASSOCIATED MATERIALS SPECIFIED UNDER A SEPARATE SECTION OF THE PROJECT SPECIFICATIONS. ALL SUCH PIPING SHALL BE INSTALLED IN A MANNER TO PROVIDE PROPER CONNECTION TO THE INVERT ELEVATIONS INDICATED ON CIVIL DRAWINGS. WHERE SIZES DIFFER BETWEEN PLUMBING AND CIVIL DRAWINGS, CONTRACTOR SHALL PROVIDE TRANSITION FITTINGS AS NECESSARY TO ALLOW FOR PROPER CONNECTION
5. HORIZONTAL SOIL, WASTE, GREASE WASTE AND TRAP PRIMER PIPING WITHIN THE BUILDING SHALL BE INSTALLED CONCEALED WITHIN WALLS, BELOW FINISHED FLOOR, OR BELOW FINISH SLAB AS APPLICABLE UNLESS NOTED OTHERWISE. ALL OTHER HORIZONTAL PIPING WITHIN BUILDING SHALL BE INSTALLED CONCEALED ABOVE CEILING OR WITHIN WALL AS APPLICABLE UNLESS NOTED OTHERWISE. ALL VERTICAL PIPING SHALL BE INSTALLED CONCEALED WITHIN WALLS UNLESS NOTED OTHERWISE. NO PIPING SHALL BE INSTALLED IN EXPOSED LOCATIONS UNLESS SPECIFICALLY NOTED AS SUCH ON PLANS
6. HORIZONTAL CONDENSATE PIPING SHALL SLOPE AT 1/8" PER FOOT UNLESS NOTED OTHERWISE
7. NATURAL GAS PIPE SIZING CALCULATIONS ARE BASED ON A CALORIC CONTENT OF 1,000 BTU'S PER CUBIC FOOT.
8. PIPING BETWEEN EACH PLUMBING FIXTURE AND THE NEAREST BRANCH OR MAIN PIPING RUN SHALL BE SIZED TO MATCH THE CORRESPONDING FIXTURE SCHEDULE CONNECTION SIZE AT A MINIMUM UNLESS NOTED AS A LARGER SIZE ON PLANS. PIPE HEADERS IN WALLS SERVING BANKS OF FIXTURES SHALL BE FULL LINE SIZE FROM THE UPSTREAM END OF THE BRANCH LINE TO THE END TERMINAL UNLESS NOTED OTHERWISE.
9. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS, ROUGH IN DIMENSIONS, AND MOUNTING HEIGHTS OF ALL FIXTURES, EQUIPMENT, ACCESS PANELS, HOSE BIBBS, RECESSED HOSE BIBBS, OVERFLOW DRAIN TERMINATION POINTS, AND OTHER EXPOSED PLUMBING ELEMENTS. WHERE DIMENSIONS ARE NOT INDICATED, SEEK ARCHITECT'S DIRECTION AND/OR APPROVAL
10. ACCESS PANELS:
    A. WHERE POSSIBLE USE SAME ACCESS PANEL FOR SHUT-OFF VALVES, MIXING VALVES, TRAP PRIMER AND WATER HAMMER ARRESTORS AND/OR OTHER INTERIOR WALL COMPONENTS WHEN LOCATED DIRECTLY ADJACENT IN SAME IMMEDIATE VICINITY
11. CLEANOUTS:
    A. PROVIDE CLEANOUTS PER CPC
    B. INTERIOR CLEANOUTS SHALL BE WALL CLEANOUTS RATHER THAN FLOOR CLEANOUTS UNLESS OTHERWISE NOTED. CLEANOUTS SHALL BE READILY ACCESSIBLE AND SHALL BE CAREFULLY COORDINATE WITH CASEWORK, EQUIPMENT, AND OTHER ITEMS TO AVOID CONFLICT. NOT ALL REQUIRED CLEANOUTS ARE INDICATED ON PLANS. WALL CLEANOUTS IN FINISHED SPACES SHALL BE INSTALLED IN ACCESS PANELS. SEE SPECIFICATIONS FOR ACCESS PANEL REQUIREMENTS
12. EXTERIOR YARD BOXES AND CLEANOUTS SHALL BE INSTALLED AT EXACT LOCATIONS INDICATED ON PLANS. IN THE EVENT OF A CONFLICT OR DISCREPANCY, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTION ON HOW TO PROCEED.
13. EXTERIOR WATER SHUT OFF VALVES AND GAS SHUT-OFF COCKS SHALL BE INSTALLED WITHIN CONCRETE YARD BOXES. YARD BOX AND CLEANOUT COVERS SHALL BE CLEARLY STAMPED WITH "WATER", "GAS", OR "SEWER? AS APPLICABLE. YARD BOXES SHALL BE EQUIVALENT TO "CHRISTY" MODEL NO. B03. VALVES SHALL BE INSTALLED AND PROPERLY POSITIONED WITHIN YARD BOX TO ALLOW FOR FULL RANGE OF OPERATION, MAINTENANCE, REPAIR, AND REPLACEMENT. ALL YARD BOXES AND CLEANOUT COVERS SHALL ALIGN WITH SCORED HARDSCAPE JOINTS PER LANDSCAPE PLANS. YARD BOX SHALL BE CONCRETE. SEWER CLEANOUT COVERS SHALL BE BRASS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
14. VERIFY EXACT LOCATIONS OF ALL MECHANICAL AND/OR OTHER EQUIPMENT INSTALLED BY OTHERS AND REQUIRING PLUMBING CONNECTIONS PRIOR TO ORDERING OF MATERIALS OR INSTALLATION. COORDINATE EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS WITH OTHER INSTALLING CONTRACTORS AS APPLICABLE PRIOR TO INSTALLATION.
15. ADA LAVATORIES AND SINKS SHALL BE PROVIDED WITH ADA INSULATED TRAP AND SUPPLY COVERS AS SPECIFIED
16. ADA WATER CLOSETS SHALL BE INSTALLED WITH FLUSH VALVE ACTUATOR HANDLE LOCATED ON THE WHEEL CHAIR ACCESS SIDE
17. SHUT OFF VALVES, SHUT OFF COCKS, WATER CONTROL DEVICES, CLEANOUTS, AND OTHER PIPING APPURTENANCES SHALL BE THE SAME SIZE AS PIPING SERVED UNLESS NOTED OTHERWISE
18. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL MANDATORY MEASURES AND ASSOCIATED REQUIREMENTS
19. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE RATED ASSEMBLIES. PROVIDE FIRESTOPPING AT PENETRATIONS THROUGH FIRE RETARDANT CONSTRICTION IN ACCORDANCE WITH SPECIFICATIONS
20. PENETRATIONS OF FIRE RESISTIVE WALLS, FLOORS-CEILINGS, AND ROOF CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTION 714
21. DOMESTIC WATER PIPING AND COMPONENTS SHALL BE PROVIDED AND INSTALLED IN COMPLIANCE WITH CALIFORNIA AB 1953 LEGISLATION. WHICH LIMITS THE ALLOWABLE LEAD CONTENT IN CERTAIN DOMESTIC WATER SYSTEM COMPONENTS.

DRAWING SCHEDULE

P0.1 PLUMBING NOTES AND LEGENDS
P0.2 PLUMBING SCHEDULES
P1.0 PLUMBING FLOOR PLANS
P2.0 PLUMBING DETAILS

ACE MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.acemoreno.com

NEW CONCESSION STAND FOR SAN BERNARDINO TERMINAL AIRPORT

COFFEE SHOP - LEVEL 1

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

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WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER
FRANCISCO A. COLLADO
35561
MECHANICAL
STATE OF CALIFORNIA

DATE: _____

SHEET NO:
P0.1

SHEET NAME:
PLUMBING NOTES AND LEGENDS

SYMBOLS AND ABBREVIATIONS

		DOMESTIC COLD WATER PLUMBING
		DOMESTIC HOT WATER PLUMBING
		VENT PLUMBING
		SANITARY/WASTE PLUMBING
WCO		WALL CLEANOUT
VTR		VENT TO ROOF
SOV		SHUT OFF VALVE
TYP	(TYP)	TYPICAL DETAIL CALLOUT
		PIPE UP
		PIPE DOWN
		BOTTOM CONNECTION
		TOP CONNECTION

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	ROUGH-IN SIZE				REMARKS
		S/W	V	CW	HW	
L-1	LAVATORY (WALL MOUNT)	1-1/2"	1-1/2"	1/2"	1/2"	WALL-MOUNT LAVATORY AMERICAN STANDARD "LUCERNE" MODEL #0356.421 WHITE, POWERS MODEL #115A5 "TEMP-TAP" THERMOSTATIC FAUCET (FAUCET COMES PRE-SET TO 105°F - THE P.C. MUST ADJUST THE TEMPERATURE LIMIT STOP TO 110°F) STOPS AND CHECKS, INSTALL WITH BRASSCRAFT 1/2" BRAIDED FLEX SUPPLIES, 1/4 TURN ANGLE STOPS AND CHROME PLATED ONE PIECE ESCUTCHEONS. GRID STRAINER WITH CHROME PLATED P-TRAP, CHROME PLATED TRAP-ARM, AND CHROME PLATED ESCUTCHEON. P-TRAP AND WATER SUPPLIES SHALL BE WRAPPED WITH TRUEBRO LAVGUARD #102.
TP-1	TRAP PRIMER	-	-	1/2"	-	LEAD-FREE, SANI GUARD AUTOMATIC TRAP PRIMER, ALL BRONZE BODY W/ INTEGRAL VACUUM BREAKER. MN: ZURN Z1022-XL
WCO	WALL CLEANOUT	LINE SIZED	-	-	-	ZURN #1443 SQUARE WALL CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT TAPERED THREAD PLUG AND NICKLE BRONZE SECURED SQUARE, SMOOTH WALL ACCESS COVER AND FRAME
FS-1	FLOOR SINK	2"	2"	-	-	CECO 908-3 12"x12"x8" FLOOR SINK WITH 3" OUTLET. ACID RESISTANT ENAMEL ON CAST IRON, INCLUDES DOME STRAINER, INSTALL WITH 3/4" TOP GRATE

1

PLUMBING FIXTURE CALCULATION (COFFE SHOP)

MARK	DESCRIPTION	QTY	2019 CPC APPENDIX A			
			FU EACH		FU TOTAL	
			WASTE	WATER	WASTE	WATER
HS-1	HAND SINK	1	2	1.5	2	1.5
3CS-1	3 COMPARTMEN SINK	1	2	1.5	2	1.5
2CB-1	DOUBLE COFFEE BREW	1	-	1	-	1
FD-1	FLOOR DRAIN	2	0/2	-	2	-
HW-1	HAND WASHING SINK	1	2	1.5	2	1.5
FS-1	FLOOR SINK	2	-	-	-	-
				TOTALS =	8	5.5

FROM CHART A103.1 OF THE CPC, 4 WATER FIXTURE UNITS IS EQUIVALENT TO 5.5 GPM. TO KEEP THE PRESSURE DROP AT LESS THAN 4 PSI FOR 100 FEET OF PIPE, A 3/4" MAIN WATER LINE IS NEEDED. THERE IS AN EXISITING 1-1/2" WATER TAP ABOVE (COFFEE LOUNGE) SO WE WILL USE THIS TAP TO SERVE THIS AREA. WE WILL ALSO USE THE EXISITING 1/2" WATER LINE IN THIS AREA TO SERVE ONE OF THE SINKS.

FROM TABLE 703.2 OF THE CPC, 8 SEWER FIXTURE UNITS WILL NEED A 2" MAIN SEWER LINE. THE EXISTING MAIN SEWER LINE SERVING THE SPACE IS 2" LINE SO WE WILL CONNECT TO THIS LINE. ALSO FROM TABLE 703.2 OF THE CPPC, 8 SEWER FIXTURES UNITS WILL NEED A 1-1/2" VENT, WE WILL CONNECT TO THE 2" VENT TAB ABOVE (A 2" VENT CAN HANDLE 24 FIXTURE UNITS).

HOT WATER PIPE INSULATION

PIPE DIAMETER	INSULATION THICKNESS
1/2"	1-1/2"
3/4"	1-1/2"
1"	2"
1-1/4" THRU 2"	2"

HOT WATER PLUMBING FIXTURE CALCULATION (WATER HEATER TO SERVE COFFE SHOP)

MARK	DESCRIPTION	QTY	2019 CPC APPENDIX A	
			FU EACH	FU TOTAL
			HOT WATER	HOT WATER
HS-1	HAND SINK	2	0.75	1.5
3CS-1	3 COMPARTMEN SINK	2	0.75	1.5
2CB-1	DOUBLE COFFEE BREW	1	-	-
FD-1	FLOOR DRAIN	3	-	-
CB-1	COFFEE BREW	1	-	-
HW-1	HAND WASHING SINK	1	0.75	0.75
FS-1	FLOOR SINK	2	-	-
			TOTALS =	3.75

FROM CHART A103.1 OF THE CPC, 3.75 HOT WATER FIXTURE UNITS IS EQUIVALENT TO 4 GPM. TO KEEP THE PRESSURE DROP AT LESS THAN 4 PSI FOR 100 FEET OF PIPE, A 3/4" HOT WATER MAIN LINE IS NEEDED. THERE IS AN EXISITING 1-1/2" WATER TAP ABOVE (COFFEE LOUNGE) SO WE WILL USE THIS TAP TO SERVE THIS AREA.

THE ELECTRIC HEATER RHEEM HU ES50-12-G WITH A TANK CAPACITY OF 50 GALLONS, 12 KW (208 V/3 PHASE) AND A HEAT RECOVERY OF 2.07 GPM WILL BE USED. THIS HEATER CAN PROVIDE 18 MINUTES OF HOT WATER AT PEAK FLOW.

AEC MORENO CORPORATION
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Office: (909) 440-2855
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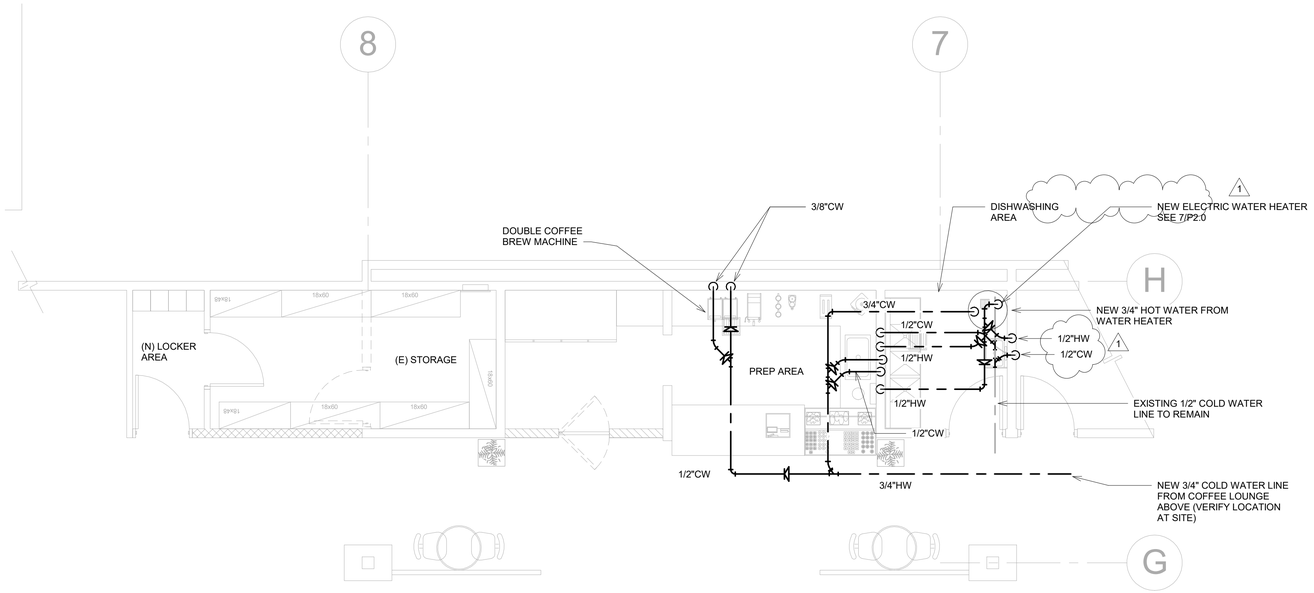
SHEET NO:
P0.2

SHEET NAME:
PLUMBING SCHEDULES

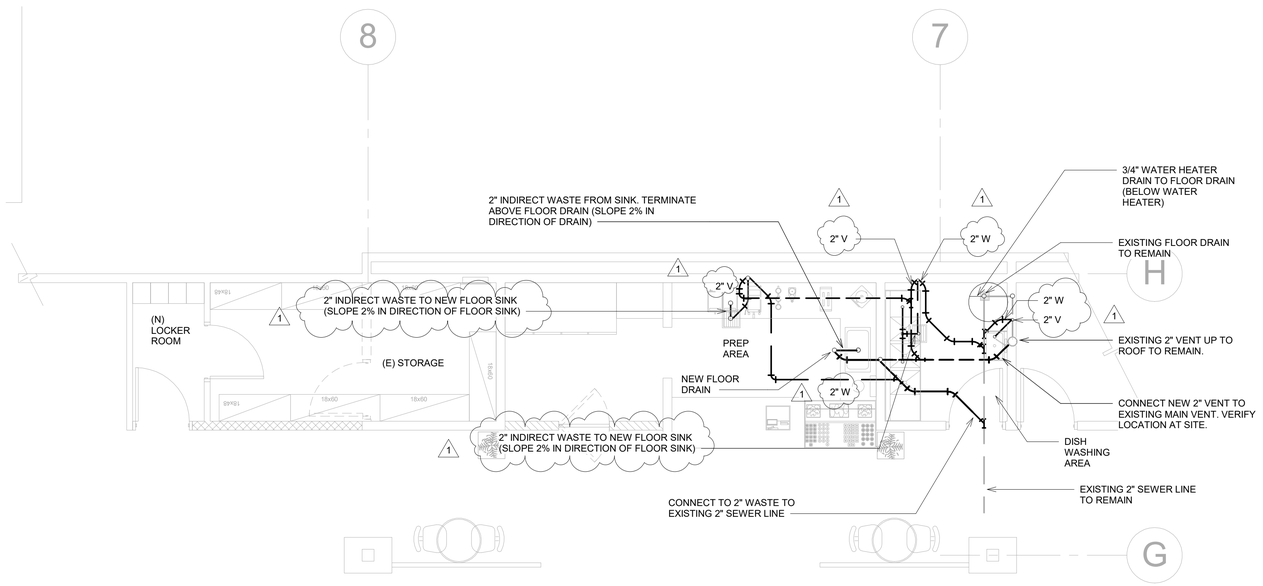
PLUMIBNG NOTES:

1) THE THREE-COMPARTMETN SINK WILL HAVE TWO (2) DRAINBOARDS.

2) THE SIZE OF THE SINK COMPARTMENTS AND DRAINBOARDS MUST BE LARGE ENOUGHT TO ACCOMODATE THE LARGEST VESSEL OR UTENSIL USED. HOWEVER, THE MINIMUM SIZE SHALL BE 18"X18" DEEP COMPARTMENTS WITH 18"X18" DRAINBOARDS OR 16"X20"X12' DEEP WITH 16"X20" DRAINBOARDS.



2 COFFEE SHOP- CW AND HW PLUMBING
1/4" = 1'-0"



1 COFFEE SHOP- WASTE And VENTING PLUMBING
1/4" = 1'-0"

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P1.0

SHEET NAME:
PLUMBING FLOOR PLANS

Heavy Duty Electric Commercial Water Heaters

Rheem RUUD



208, 240, 277 and 480 Voltages

Surface Mounted and Immersion Thermostat Models

Available in 50, 85 and 120 Gallon Tank-Type Models

▶ 6 KW thru 81 KW

Rheem-Ruud Electric Commercial Water Heaters are suitable for general commercial hot water applications and are also ideal for point-of-use installations. A single unit can be used as a booster heater to satisfy the hot water requirements of commercial dishwashers. A single temperature storage unit, when installed with a mixing valve, will supply two temperatures in food service establishments.

Construction Features:

- **System Sentinel** – immersion thermostat models employ an element diagnostic panel, utilizing light emitting diodes (L.E.D.), corresponding to the number and location of each heating element. This system monitors the on-off function of the electric heating elements.
- **Long life ASME tank design** – proprietary steel formulation with high temperature porcelain enamel to maximize corrosion resistance resulting in a superior tank design.
- **LIFEGUARD heating elements** – separate screw-in type elements feature a stainless steel color sheath of INCO-LOY 840, surrounding a Nichrome wire filament, to resist water chemical corrosion and burn-out even in air or sediment...for long element life and long life performance.

Elements are directly immersed in the water for maximum recovery efficiency (98%) and are safely changed by simply screwing new ones into the tank. LIFEGUARD elements feature a three (3) year limited warranty.

- **Full port, full flow brass drain valve**
- **Minimal heat loss design** – 85% of the tank surface area on all Rheem-Ruud Commercial Electric products are insulated with 3" of rigid polyurethane foam insulation providing superior insulating qualities. Unlike other designs, Rheem-Ruud Commercial Electrics can achieve 85% because of the unique compact layout of the heating elements. **This results in heat losses less than the energy used by a 100 watt light bulb during a 48 hour standby period!**

Certifications and Ratings:

- **Efficiency** – *in accordance with* ANSI test procedures, these models tested below the maximum allowable standby loss levels of current ASHRAE standards. (Part of the Federally mandated Energy Policy Act (EPact)). Also exceeds energy efficiency codes of all states including California Energy Commission (CEC).
- **Safety and construction** – These products are design certified by Underwriters Laboratories (UL) to meet UL standard 1453 as electric booster and commercial storage tank water heaters. All models are North Carolina code compliant. **CERTIFIED FOR A 150 PSI MAXIMUM WORKING PRESSURE (160 PSI FOR ASME MODELS).**
- **Optional construction** – ASME construction is available on immersion thermostat models.

Continued on reverse

Heavy Duty Electric continued

ELECTRICAL CHARACTERISTICS

INPUT KW	NO. OF ELEMENTS	ELEMENT WATTAGE	FULL LOAD CURRENT IN AMPERES 208V 1 Phase	240V 1 Phase	277V 1 Phase	480V 3 Phase	SURFACE MOUNTED No. of Fuses	Number of Switches	Number of Contactors	IMMERSION THERMOSTATS Number of Fuses	Staged T Slots No. of T Slots	KW Step Size
6	3	2000	29	25	22	14	3	6	2	6	N/A (SNB, T STAT STD	6
9	3	3000	43	37	33	22	3	6	2	6		9
12	3	4000	58	50	43	29	3	6	2	6		12
15	3	5000	72	62	54	36	3	6	2	6		15
18	3	6000	—	—	65	43	3	6	2	6		18
18	6	3000	87	75	—	—	6	12	4	12	2	9
24	6	4000	116	87	108	58	6	12	4	12	2	12
27	6	4500	130	112	98	65	6	12	4	12	2	13.5
30	6	5000	144	124	113	72	6	12	4	12	2	15
36	6	6000	—	—	130	87	6	12	4	12	2	18
36	9	4000	173	150	—	—	9	18	6	18	3	12
45	9	5000	217	125	195	109	9	18	6	18	3	15
54	9	6000	260	150	234	130	9	18	6	18	3	18
81	9	9000	—	—	—	—	9	18	6	18	3	27

Thermostat Staging –
On all immersion thermostat models, 24 kW and above (18kW for 208V), additional thermostats can be provided so that the maximum element input will not exceed 18 kW - 27 kW per step. Temperature differential between steps can be set as desired.

Note: Thermostat staging recommended on 81kW models.

WATER TEMPERATURE RATINGS

Model Number	Tank Capacity Gallons	Liters	Thermostat Type	Minimum Delivered Temperature	Maximum Delivered Temperature	High Temperature Limit
E050	50	189	Surface	90°F (32°C)	180°F (82°C)	190°F (88°C)
E085	85	322	Surface	120°F (49°C)	190°F (88°C)	195°F (91°C)
E120	119.9	454	Surface	120°F (49°C)	190°F (88°C)	195°F (91°C)
E50	50	180	Immersion	90°F (32°C)	150°F (66°C)	200°F (93°C)
E85	85	322	Immersion	90°F (32°C)	150°F (66°C)	200°F (93°C)
E120	119.9	454	Immersion	90°F (32°C)	150°F (66°C)	200°F (93°C)

RECOVERY CAPACITIES Recovery in U.S. Gallons/Hr. (GPH) and Liters/Hr. (LPH) at Various Temperature Rises

INPUT KW	EQUIVALENT BTU/HR.	UNITS	40°F (22°C)	50°F (28°C)	60°F (33°C)	70°F (39°C)	80°F (44°C)	90°F (50°C)	100°F (56°C)	110°F (61°C)	120°F (67°C)	130°F (72°C)	140°F (78°C)
6	20,473	GPH	82	65	41	33	21	16	13	11	9	8	7
		LPH	310	246	155	124	77	61	49	42	34	30	26
9	30,709	GPH	123	98	62	49	31	25	20	17	14	12	11
		LPH	465	370	233	186	116	92	74	63	52	45	41
12	40,946	GPH	124	99	83	71	62	55	50	45	41	38	35
		LPH	470	375	313	266	232	206	187	171	157	145	134
15	51,183	GPH	155	124	103	89	78	69	62	56	52	48	44
		LPH	587	470	391	332	291	258	235	214	198	183	168
18	61,420	GPH	156	149	124	106	93	83	74	68	62	57	53
		LPH	591	564	470	402	353	315	283	259	236	217	202
24	81,893	GPH	248	199	165	142	124	110	99	90	83	75	71
		LPH	936	753	626	536	470	417	376	343	315	289	270
27	92,129	GPH	279	223	186	160	140	124	112	102	93	86	80
		LPH	1,057	846	705	603	529	470	423	387	353	325	304
30	102,366	GPH	310	248	207	177	155	138	124	113	103	95	89
		LPH	1,174	940	783	670	587	523	470	428	391	361	336
36	122,839	GPH	372	298	248	213	186	165	149	135	124	115	106
		LPH	1,409	1,127	939	805	705	626	563	513	470	433	403
45	153,549	GPH	465	372	310	265	233	207	186	169	155	143	133
		LPH	1,761	1,409	1,174	1,008	881	783	705	641	587	542	503
54	184,259	GPH	556	447	372	319	279	248	223	203	186	172	160
		LPH	2,113	1,691	1,409	1,209	1,057	939	845	768	705	650	605
81	276,388	GPH	838	670	558	479	419	372	335	305	279	258	240
		LPH	3,170	2,537	2,113	1,812	1,585	1,409	1,268	1,153	1,057	976	907

Heavy Duty Electric continued

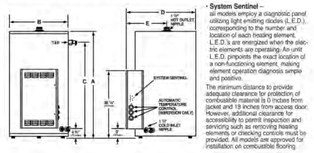
MODEL NUMBERS

INPUT KW	SURFACE MOUNTED THERMOSTATS Tank Capacity In Gallons 50	85	120	IMMERSION THERMOSTATS Tank Capacity In Gallons 50	85	120
6	E5006-2-G	E585-6-G	E5120-6-G	E50-6-G	E85-6-G	E120-6-G
9	E5059-9-G	E5859-9-G	E5129-9-G	E50-9-G	E85-9-G	E120-9-G
12	E5012-12-G	E585-12-G	E5120-12-G	E50-12-G	E85-12-G	E120-12-G
15	E5015-15-G	E585-15-G	E5120-15-G	E50-15-G	E85-15-G	E120-15-G
18	E5018-18-G	E585-18-G	E5120-18-G	E50-18-G	E85-18-G	E120-18-G
24	E5024-24-G	E585-24-G	E5120-24-G	E50-24-G	E85-24-G	E120-24-G
27	E5027-27-G	E585-27-G	E5120-27-G	E50-27-G	E85-27-G	E120-27-G
30	E5030-30-G	E585-30-G	E5120-30-G	E50-30-G	E85-30-G	E120-30-G
36	E5036-36-G	E585-36-G	E5120-36-G	E50-36-G	E85-36-G	E120-36-G
45	E5045-45-G	E585-45-G	E5129-45-G	E50-45-G	E85-45-G	E120-45-G
54	E5054-54-G	E585-54-G	E5120-54-G	E50-54-G	E85-54-G	E120-54-G
81	N/A	N/A	N/A	N/A	E85A-81-GS	E120A-81-GS

- **Fuse type** – the "G" in the model number represents Class G fuses.
- **Thermostat staging** – E models (immersion thermostat) 24 kW and above (18 kW for 208V), may be ordered with additional thermostat(s) for staging. Add "S" after fuse type designation. Recommended on 81kW models. Example: E85-36-G becomes E85-36-GS.
- **ASME construction** – E models (immersion Thermostat) may be ordered with ASME certified construction. Add "A" after capacity designation. Example: E85-36-G becomes E85A-36-G.
- **UL Sanitation compliance** – all models are UL Sanitation (NSF3) compliant when equipped with the cotorate ring seal kits: E(S)50 – AS58585, E(S)85 – AS58366, E(S)120 – AS38367.
- **Solid state low water cut-off** – E models (immersion Thermostat) may be ordered with probe type cut-off for field installation (AP8408).

DIMENSIONAL INFORMATION All dimensioned shown in English and (Metric).

MODEL NUMBER	UNITS	A	B	C	D	E	APPROX. SHIPPING WEIGHT (LBS.) STD.	ASME
E(S)50	inches	49-5/8	36-1/4	36-1/4	32	19	370 lbs	550 lbs
	mm	1035	921	921	813	483	170 kg	249 kg
E(S)85	inches	57-11/16	28-1/4	49-1/2	24	20	560 lbs	580 lbs
	mm	1465	718	1257	610	508	181 kg	263 kg
E(S)120	inches	67-5/8	30-1/4	58-3/4	36	21	430 lbs	450 lbs
	mm	1720	768	1492	914	533	195 kg	204 kg



- **System Sentinel** – all models employ a diagnostic panel utilizing light emitting diodes (L.E.D.), corresponding to the number and location of each heating element. L.E.D.'s are energized when the electric elements are operating. An unlit L.E.D. pinpoints the exact location of a non-functioning element, making element operation diagnosis simple and positive.

The minimum distance to provide adequate clearance for protection of combustible material is 0 inches from jacket and 18 inches from access door. However, additional clearance for accessibility to permit inspection and servicing such as removing heating elements or checking controls must be provided. All models are approved for installation on combustible flooring.

Heavy Duty Electric continued

Other Features:

- **Integral Fusing** – all models have integral fusing for each element.
- **Anode Rods** – two (2) magnesium anodes are installed in each tank to ensure long life and corrosion resistance.
- **Temperature and Pressure Relief Valve** – AGA/ASME rated and factory installed.
- **Electrical Connections** – provided, accessible control box with multiple knockouts on side to size selections to match the National Electric Code. Sizes range from 1/2" to 2". A grounding screw is provided for attaching an equipment grounding conductor.
- **Single Panel Control Box** – with hinged door, provides immediate access to all electrical components and elements.
- **Terminal Block** – all models are equipped with U.L. listed terminal blocks for simplicity of installation. The terminal block will accept either copper or aluminum field connect wire.
- **120 Volt Control Circuit** – all units are furnished with a fused 120 volt control circuit. All controls (thermostats, high temperature limit, etc.) are operated off of this basic 120 volt control circuit. This circuit is created by an internal multi-tap transformer of unique design that has four (4) taps for the primary voltages, 208, 240, 277 and 480.
- **Water Connections** – hot outlet and cold inlet are 1-1/2" NPT dielectric nipples which prevent excessive turbulence of heated water and results in optimum tank draw.

Recommended Specifications:

Water heater(s) shall be model _____, manufactured by RHEEM-RUUD, having electrical input of _____ kW and a recovery rate of _____ GPH at a 100°F temperature rise. Water heater(s) shall have a storage capacity of _____ gallons. Water heater(s) shall have the UL seal of certification and be factory equipped with an AGA/ASME rated temperature and pressure relief valve. Tank(s) shall have a double coating of high temperature porcelain enamel and furnished with magnesium anode rods rigidly supported. Water heater(s) shall meet or exceed the sturdiness requirements of ASHRAE. Tank(s) shall have a working pressure of 150 psi, and shall be completely assembled. Water heater(s) shall be equipped with LIFEGUARD "screw-in" type elements featuring a stainless steel color sheath of INCO-LOY 840 material. LIFEGUARD "screw-in" type elements featuring a stainless steel color sheath of INCO-LOY 840 material. Tank shall be insulated with 3" of rigid polyurethane foam insulation. Water heater(s) shall be constructed with a SYSTEM SENTINEL element diagnostic panel utilizing light emitting diodes. Each LED will correspond to the number and location of the heating elements and monitor their on-off function. Water heater(s) shall be provided with internal power circuit fusing, control circuit fusing, magnetic contactors, 120 volt control circuit transformer and surface mounted thermostat or immersion thermostat(s) with manual reset high limit control. 1-1/2" inlet and outlet water connections shall be provided. Water heater(s) shall be covered by a three year limited warranty against tank leaks.

Add for ASME construction
Water heater(s) shall be constructed in accordance with the requirements of the ASME Boiler and Pressure Vessel Code, Section IV Part HLW.

Limited Warranty:
This product features a three year limited warranty against tank leaks. Please refer to Commercial Warranty information brochure for complete warranty information.

Rheem RUUD
COMMERCIAL WATER HEATERS

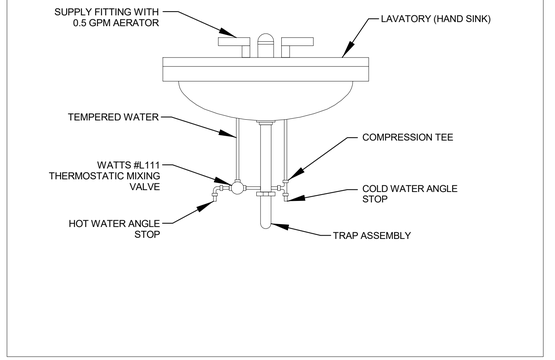
In keeping with its policy of continuous progress and product improvement, Rheem-Ruud reserves the right to make changes without notice.

Rheem Water Heaters • 101 Bell Road • Montgomery, Alabama 36117-4303 • www.rheem.com
Rheem Canada Ltd./Ltée • 725 Edgeware Road, Unit 1 • Brampton, Ontario L6Y 0P3

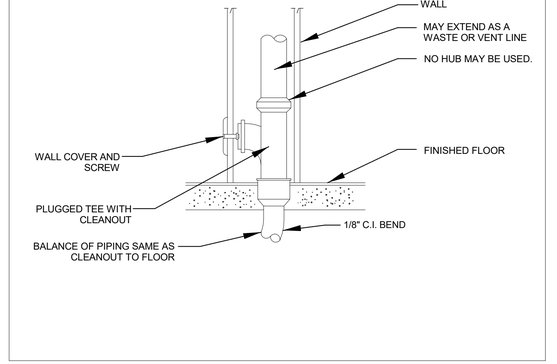
FORM NO. RH-WH-EEDC-1 Rev. 1.2

SELECTED WATER HEATER (50 GALLONS)

7 ELECTRIC WATER HEATER - CUT SHEETS
NTS

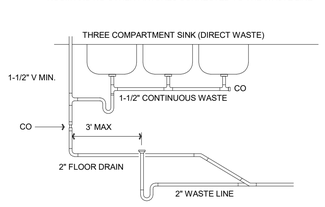


4 P7 LAVATORY INSTALLATION
NTS

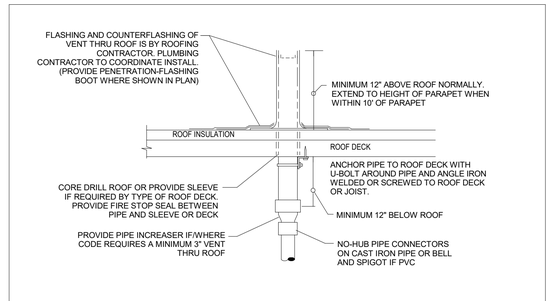


1 P4 WALL CLEANOUT
NTS

SECTION 704.3, 1997 UNIFORM PLUMBING CODE THREE COMPARTMENT POT AND PAN SINKS INSTALLED IN COMMERCIAL KITCHENS SHALL BE DIRECTLY CONNECTED TO THE PLUMBING WASTE SYSTEM PROVIDED THERE IS A FLOOR DRAIN OR FLOOR SINK INSTALLED WITHIN FIVE FEET IMMEDIATELY DOWNSTREAM OF THE SINK WASTE LINE, IN THE SAME ROOM AND NO OTHER FIXTURES CONNECTED TO THE WASTE LINE

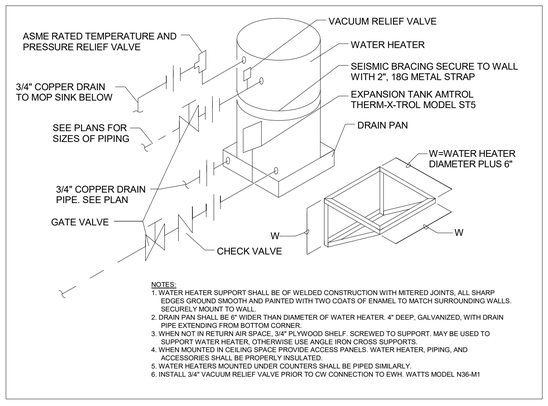


5 P10 THREE COMPARTMENT SINK
NTS



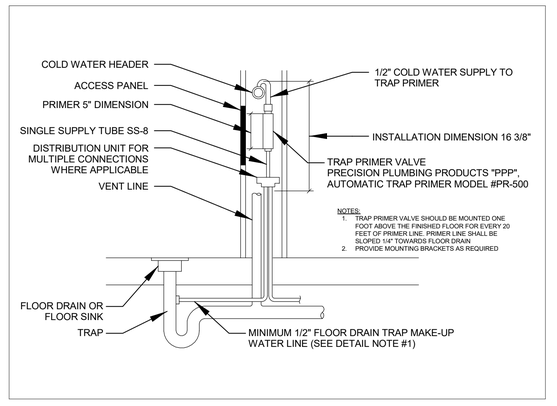
REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

2 P3 VENT TO ROOF
NTS



NOTES:
1. WATER HEATER SUPPORT SHALL BE OF WELDED CONSTRUCTION WITH MITERED JOINTS, ALL SHARP EDGES GROUND SMOOTH AND PAINTED WITH TWO COATS OF ENAMEL TO MATCH SURROUNDING WALLS. SECURELY MOUNT TO WALL.
2. DRAIN PAN SHALL BE 6" WIDER THAN DIAMETER OF WATER HEATER. 4" DEEP, GALVANIZED, WITH DRAIN PIPE EXTENDING FROM BOTTOM CORNER.
3. WHEN NOT IN RETURN AIR SPACE, 3/4" PLYWOOD SHELF. SCREWED TO SUPPORT. MAY BE USED TO SUPPORT WATER HEATER, OTHERWISE USE ANGLE IRON CROSS SUPPORTS.
4. WHEN MOUNTED IN CEILING SPACE PROVIDE ACCESS PANELS. WATER HEATER, PIPING, AND ACCESSORIES SHALL BE PROPERLY INSULATED.
5. WATER HEATERS MOUNTED UNDER COUNTERS SHALL BE PIPED SIMILARLY.
6. INSTALL 3/4" VACUUM RELIEF VALVE PRIOR TO CW CONNECTION TO EWH. WATTS MODEL N36-M1

6 P11 ELECTRIC WATER HEATER
NTS



NOTES:
1. TRAP PRIMER VALVE SHOULD BE MOUNTED ONE FOOT ABOVE THE FINISHED FLOOR FOR EVERY 20 FEET OF PRIMER LINE. PRIMER LINE SHALL BE SLOPED 1/4" TOWARDS FLOOR DRAIN
2. PROVIDE MOUNTING BRACKETS AS REQUIRED

3 P2 TRAP PRIMER AND FLOOR DRAIN
NTS

ACE MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.acemoreno.com

NEW CONCESSION STAND FOR SAN BERNARDINO TERMINAL AIRPORT

COFFEE SHOP - LEVEL 1

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	INITIAL SUBMITTAL			
1	FIRST SUBMITTAL			11.23.2022
2	SECOND SUBMITTAL			

WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER
FRANCISCO A. COLLADO
35561
MECHANICAL
STATE OF CALIFORNIA

DATE: _____

SHEET NO:
P2.0

SHEET NAME:
PLUMBING DETAILS

Inland Valley Development Agency
San Bernardino International Airport Authority
1601 E. 3rd Street
San Bernardino, CA 92408
Phone: (909) 382-4100 FAX: (909) 382-4106

Change Order 1 to Contract: 1st Floor Concession Improvements Project, dated January 10, 2023 by and between: San Bernardino International Airport Authority (Agency), and AEC Moreno Inc. (Contractor), the Contractor is hereby directed to make the following change in contract work:

ITEM	DESCRIPTION OF CHANGES	TYPE	AMOUNT
1-1	Health Department Upgrades	**Add**	**$18,550.00**
	Total Cost for Change Order 1.		**$18,550.00**

Original Contract Amount: **$ 49,500.00**
Proposed Change Order 1: **$ 18,550.00**

New Contract Amount: **$68,050.00**

ACCEPTANCE:

Contractor accepts the terms and conditions stated above as full and final settlement of any and all claims arising from this Change Order and acknowledges that the compensation (time and cost) set forth in the Change Order comprises the total compensation due for the work or change defined in the Change Order, including all impact on any unchanged work. By signing the Change Order, the Contractor acknowledges and agrees that the stipulated compensation includes payment for all Work contained in the Change Order, plus all payment for the interruption of schedules, extended overhead costs, delay, and all impact, ripple effect or cumulative impact on all other Work under this Contract. The signing of the Change Order acknowledges full mutual accord and satisfaction for the change, and that the time and/or cost under the Change Order constitute the total equitable adjustment owed the Contractor as a result of the change. The Contractor agrees to waive all rights, without exception or reservation of any kind whatsoever, to file any further claim or request for equitable adjustment of any type, for any reasonably foreseeable cause that shall arise out of or as a result of this Change Order or the impact of this Change Order on the remainder of the Work under this contract. Contractor agrees to perform the abovedescribed work in accordance with the above terms and in compliance with applicable Sections of the Contract Documents. This Change Order is hereby agreed to, accepted and approved, all in accordance with the General Conditions of the Contract Documents.

Accepted by Contractor _____ Date: _____

Approved by Agency _____ Date: _____

385 N Arrowhead Ave, San Bernardino, CA 92415 | Phone: 800.442.2283 Fax: 909.387.4323
www.SBCounty.gov
www.SBCounty.gov/dph/dehs

SAN BERNARDINO COUNTY

Public Health
Environmental Health Services

RETAIL FOOD PLAN CHECK - OFFICIAL PLAN REVIEW REPORT

FACILITY NAME				REINSPECTION DATE	INSPECTOR	DATE
LELAND'S COFFEE (1ST FLOOR)				Not Specified	Guy Surber	2/1/2023
LOCATION				PERMIT EXPIRATION	IDENTIFIER: None	
105 N LELAND NORTH WY, SAN BERNARDINO, CA 92408					SERVICE: 126 - PLAN CHECK FIELD INSPECTION	
TIME IN	TIME OUT	FACILITY ID	RELATED ID	PE	RESULT: 05 - CORRECTIVE ACTION / FOLLOW UP REQU	
10:00 AM	10:45 AM	Not Specified	SR0113492	1765	ACTION: 03 - REINSPECTION REQUIRED	

RETAIL FOOD PLAN CHECK - PlnCk PEP/School Prep New 0-1,499 SqFt

See the following pages for the code sections and general requirements that correspond to each violation listed below.

17K832 Plans - Preliminary Inspection

Compliance Date: Not Specified
Not In Compliance
Reference - Reference Number - SBC Policy

Inspector Comments: A preliminary inspection was conducted today at Leland's Coffee Shop at the San Bernardino Airport. A final inspection will be required.

Observed that hot water was not available at sinks, and must be verified at final inspection. Observed that merchandiser and under counter one door refrigerator were holding at or below 41F. Units will be moved to new outlets, and must be verified to be holding at or below 41F at final inspection.

Observed that equipment was installed and covered with plastic. Contact reviewed this equipment with me, and it appears to be as described on plans. Equipment must be verified to be as indicated on plans and ANSI certified at final inspection.

Observed majority of finishes installed throughout facility. Observed Rheem Retex-18 tankless water heater installed in food facility and janitorial area. Restrooms have individual insta-hot type water heaters at handwashing sinks. See correction.

Observed floor sink at under counter refrigerator (its eventual location in preparation area), one floor sink at three compartment sink, and one floor sink at handwashing sink next to three compartment sink.

Continue with construction as per approved plans.

Upon final inspection:
1. Ensure the water temperature reaches a minimum 120F at all sinks
2. Ensure all refrigeration units are holding at 41F or below
3. All equipment must be installed and operating
4. Have Health Permit Application filled out and check for permit fee ready

Provided operator with health permit application. Application will be collected at final inspection.

Description: Preliminary inspection.

17K050 Equipment - Construction - 6"

Compliance Date: Not Specified
Not In Compliance
Reference - HSC - 114169(b), 114268(b)

Inspector Comments: Observed that merchandiser refrigerator that will be part of front counter has casters.

Remove casters and ensure that this unit has approved legs as described below.

Description: All equipment, including shelving, must be supported by six (6) inch high, easily cleanable legs, commercial castors, or completely sealed in position on a four (4) inch high continuously coved base or concrete curb to facilitate ease of cleaning.

17K088 Equipment - General - ANSI

Compliance Date: Not Specified
Not In Compliance
Reference - HSC - 114130(b)

Inspector Comments: 1. Contact stated that two pieces of equipment in seating area will not remain there. The merchandiser refrigerator is part of front counter, and the small refrigerator will be located in preparation area where floor sink is located.

Move equipment into these locations by final inspection.

Description: All new and replacement food-related and utensil related equipment shall be certified or classified for sanitation by an American National Standards Institute (ANSI) accredited certification program (NSF, ITS, ETL, EPH, UL Sanitation or CSA).

385 N Arrowhead Ave, San Bernardino, CA 92415 | Phone: 800.442.2283 Fax: 909.387.4323
www.SBCounty.gov
www.SBCounty.gov/dph/dehs

SAN BERNARDINO COUNTY

Public Health
Environmental Health Services

RETAIL FOOD PLAN CHECK - OFFICIAL PLAN REVIEW REPORT

FACILITY NAME	DATE
LELAND'S COFFEE (1ST FLOOR)	2/1/2023
LOCATION	INSPECTOR
105 N LELAND NORTH WY, SAN BERNARDINO, CA 92408	Guy Surber

17K099 Equipment - Refrigeration - Insufficient

Compliance Date: Not Specified

Not In Compliance

Reference - HSC - 114002

Inspector Comments: This note is added for reference and does not require action at this time.

Contact stated that four door upright refrigeration unit on plans (#25) will not be installed, that area in which it was to be installed will be customer area, and that undercounter one door refrigerator will be only refrigeration in facility. Menu has prepackaged items and coffee.

Contact stated that items in refrigerator will be milk and cream for coffee, and that these items will be delivered frequently enough that this one door under counter refrigerator will have capacity to hold potentially hazardous food that is in facility. This amount of refrigeration is approved on a performance basis. If an inspection finds that facility has inadequate refrigeration, additional ANSI certified refrigeration must be provided at that time.

Description: Insufficient refrigeration listed on the plans; add additional refrigeration as listed below.

17K100 Floors - Acceptable Materials

Compliance Date: Not Specified

Not In Compliance

Reference - CCDEH Guidelines - CCDEH

Inspector Comments: Floors were not installed in preparation area.

Contact stated that epoxy floor with integral coved base will be installed. Ensure that epoxy floor consists of two part epoxy that is troweled on, and that integral coved base is as described in Floors-General-Requirements in this report.

Description: Quarry tile, ceramic tile, commercially approved sheet vinyl (with a minimal wear layer thickness of 0.055 inch) and some commercial grade two part epoxy coatings (or seamless troweled epoxy floor systems) are acceptable.

17K112 Floors - General - Requirement

Compliance Date: Not Specified

Not In Compliance

Reference - HSC - 114268

Inspector Comments: Observed tile floor installed with tile at floor/wall interface that did not have cove in storage room to left of Leland's Coffee Shop.

Install tile coved base next to tile floor in this location.

Description: Floor surfaces in all areas in which food is prepared, packaged, or stored, where any utensil is washed, where refuse or garbage is stored, where janitorial facilities are located, in all toilet and handwashing areas and in employee change and storage areas shall be of an approved type that continues up the wall four (4) inches, in a seamless manner, forming a 3/8 inch minimum radius cove as an integral unit.

17K152 General Protection - Sneeze Guards - Display

Compliance Date: Not Specified

Not In Compliance

Reference - HSC - 114060(a)

Inspector Comments: Facility has been changed from plans. Sneeze guard is required at pony wall between new customer area and preparation area.

Install sneeze guard in this location that is durable, nonabsorbent, smooth, easy to clean, permanent, and that blocks sneezes in a straight line to food or sanitizing areas that originate between top of pony wall and a minimum of 60 inches above the floor from any customer accessible location. Ensure that any spaces or gaps between panels or between panel and wall are a maximum of 1/4 inch.

Description: Food on display shall be protected from contamination by the use of packaging, counter, service line, or sneeze guards that intercept a direct line between the customer's mouth and the food being displayed.

17K240 Plans - Submittal - new or remodel

Compliance Date: Not Specified

Not In Compliance

Reference - HSC - 114380(a)

Inspector Comments: Facility has changes to employee areas, customer areas, and equipment that will be installed that are not reflected on approved set of plans.

Email an updated set of plans that show the food facility with layout and equipment as it will be installed, storage area that is not adjacent to food facility, and restrooms that may be used in lieu of using public restrooms with insta-hot type water heaters by janitorial area. Include make and model number of all equipment in plans.

Description: A person proposing to build or remodel a food facility shall submit 3 sets of complete, easily readable plans drawn to scale, and specifications to the enforcement agency for review, and shall receive plan approval before starting any new construction or remodeling of any facility for use as a retail food facility.

385 N Arrowhead Ave, San Bernardino, CA 92415 | Phone: 800.442.2283 Fax: 909.387.4323
www.SBCounty.gov
www.SBCounty.gov/dph/dehs

SAN BERNARDINO COUNTY

Public Health
Environmental Health Services

RETAIL FOOD PLAN CHECK - OFFICIAL PLAN REVIEW REPORT

FACILITY NAME	DATE
LELAND'S COFFEE (1ST FLOOR)	2/1/2023
LOCATION	INSPECTOR
105 N LELAND NORTH WY, SAN BERNARDINO, CA 92408	Guy Surber

17K302 Storage - General

Compliance Date: Not Specified

Not In Compliance

Reference - CCDEH Guidelines - CCDEH

Inspector Comments: Contact stated that storage room adjacent to Leland's Coffee Shop will most likely not be used, and that another storage room will be used (location where all deliveries of food to airport must first be brought for screening). This area has wholesale type storage racks, VCT flooring, and rubber coved base. The items that will be stored in this area are prepackaged non-potentially hazardous, and milk and cream.

This storage area is under review, and may require installation of different finishes. If refrigeration must be installed in this area, because milk and cream will be held there, then approved flooring and coved base must be installed in this storage room. Plan update must include make and model number of refrigerators, and finishes in this room.

Description: In addition to dry food working storage (i.e., over and under counter storage) and refrigeration storage, provide an adequate sized room or area for dry food backup storage and other food related storage items, which is equipped with a minimum of 32 linear feet (3-tier high = 96 feet) of approved ANSI Certified (NSF, UL, or ITS) wire rack shelves.

17K383 Vermin - Air curtain - Delivery Doors

Compliance Date: Not Specified

Not In Compliance

Reference - CCDEH Guidelines - CCDEH

Inspector Comments: Observed that front sliding doors to terminal were within 100 feet of Leland's Coffee Shop, and that these doors did not have an air curtain. This is under review, and may require a different delivery door for Leland's Coffee Shop or air curtains at these doors to terminal.

Description: Delivery doors shall be equipped with a microswitch activated air curtain device that delivers an air velocity of at least 750 feet per minute, measured three (3) feet above the floor. The curtain of air shall cover the entire width of the door. For delivery doors that are wider than four (4) feet, the air curtain must produce an air velocity of at least 1600 feet per minute, as measured three (3) feet above the floor.

17K405 Structure - Walls - Behind Sinks

Compliance Date: Not Specified

Not In Compliance

Reference - CCDEH Guidelines - CCDEH

Inspector Comments: Observed that wall behind mop sink that Leland's Coffee Shop will use did not have approved wall covering that extended beyond sink for a minimum of 18 inches on each side of sink.

Extend tile back splash in this area so that it extends for a minimum of 18 inches beyond both sides of mop sink. Observed that floors, coved base, and ceiling in the janitorial/mop sink area that Leland's Coffee Shop employees will use were approved (sheet vinyl with integral coved base, painted gypsum board ceiling).

Description: The wall surfaces behind and adjacent all sinks (including Handwash and Mop sinks) shall be covered with fiberglass reinforced polyester (FRP), stainless steel, tile, or the equivalent. The approved wall cover must extend up the wall at least four (4) feet from the coved base and cover the walls behind the sink and accompanying drainboards to a minimum of eighteen (18) inches on both sides.

17K707 Construction - Hot Water Heater - Insufficient

Compliance Date: Not Specified

Not In Compliance

Reference - Reference Number - SBC Policy

Inspector Comments: 1. Observed that one (1) Rheem Retex-18 tankless water heater, rated at 2.5 GPM (gallons per minute) at 49F rise in water temperature, was installed in Leland's Coffee shop that has one (1) three compartment sink with one (1) faucet and one (1) sprayer and two (2) handwashing sinks. The minimum rating for these fixtures at a 50F rise in water temperature is 5 GPM. Contact stated that ventilation for tank water heaters could not be installed in facility, and for that reason tank water heaters could not be installed.

Install a second Rheem Retex-18 tankless water heater for Lelands' Coffee Shop, and ensure that the two tankless water heaters are plumbed in parallel (the hot water out lines from the water heaters come together in a T joint, and one hot water line serves facility).

2. Observed one (1) Rheem Retex-18 tankless water heater rated at 2.5 GPM at 49F, that serves mop sink that Leland's Coffee Shop uses (within 200' of coffee shop). This water heater is only plumbed to mop sink, and exceeds minimum requirement of 2GPM.

3. Observed that restrooms have insta-hot type water heaters at each sink.

The restroom that the employees use (adjacent to janitorial/mop sink area) is under review. Either these handwashing sinks, men's and women's, must be plumbed to one approved water heater, or the restroom in the TSA area (approval from TSA required) could be used by Leland's Coffee Shop employees. In this later case, one approved water heater must be plumbed to the handwashing sinks (2) in the men's and women's restroom (one handwashing sink each which currently have insta-hot type water heater), and the wainscot must be extended to all walls in the restrooms (observed tile on two walls in each restroom). Observed that these TSA restrooms had approved floor, coved base, and ceiling. Observed that restrooms adjacent to janitorial/mop sink area had sheet vinyl floors and coved base, tile walls, and painted gypsum board ceiling.

Description: The proposed hot water heater is insufficient. Provide an approved hot water heater with a minimum energy input rating as listed below.

Overall Inspection Comments

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SAN BERNARDINO COUNTY

Public Health
Environmental Health Services

RETAIL FOOD PLAN CHECK - OFFICIAL PLAN REVIEW REPORT

FACILITY NAME	DATE
LELAND'S COFFEE (1ST FLOOR)	2/1/2023
LOCATION	INSPECTOR
105 N LELAND NORTH WY, SAN BERNARDINO, CA 92408	Guy Surber

Preliminary inspection conducted at Leland's Coffee Shop at San Bernardino Airport. Final inspection required.

FREE Classes to L.E.A.R.N!

Liaison Education And Risk Network (L.E.A.R.N.) is a FREE class based on the fundamentals of Active Managerial Control and the Centers for Disease Control and Prevention's five risk factors that lead to foodborne illnesses. Find out when the next L.E.A.R.N. class is by checking our calendar.

Total # of Images: 0

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 6** **PRESENTER: Jeff Barrow, Director of Development**

SUBJECT: APPROVE CHANGE ORDER NO. 1 IN THE AMOUNT OF $33,800 WITH AEC MORENO CORPORATION FOR A TOTAL CONTRACT AMOUNT NOT TO EXCEEED $83,799.98 FOR THE 2ND FLOOR CONCESSION STAND IMPROVEMENTS PROJECT

SUMMARY

This proposed change order addresses necessary updates to the existing 2nd floor concession stand buildout in order to meet end user needs, as well as the current San Bernardino County of Public Health Codes. For example, new storage room finishes, additional tile surface at existing mop sink, relocation of cabinet and sink, as well as other updates are included in Change Order No. 1.

RECOMMENDED ACTION(S)

Approve Change Order No. 1 with AEC Moreno Corporation in the amount of $33,800.00 for the 2nd Floor Concession Stand Improvements Project for a total contract not to exeed $83,799.98; and authorize the Chief Executive Officer to execute all related documents.

FISCAL IMPACT

None. Funding for this project is included in the adjusted San Bernardino International Airport Authority Fiscal Year 2022-2023 Budget in the Capital Project Fund, Account 52585 - Terminal Improvements in the amount of $832,000 of which $142,256 is available to fund the Second Floor Concession Stand Improvement Project in the amount of $83,799.98.

PREPARED BY:	Kevin Vejar
CERTIFIED AS TO AVAILABILITY OF FUNDS:	Mark Cousineau
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

On March 8, 2022, the San Bernardino International Airport Authority (SBIAA), in partnership with Breeze Airways, announced the commencement of air passenger service from SBD to SFO which started August 4, 2022. To complete the work necessary to support this service, the Airport needs to contract for provision of airport food and beverage concessions to support the flying public. After completion, some updates to the 2nd floor concession stand buildout were required in order to meet the end user needs while meeting the current Health Department codes.

- Original Project Cost: $49,999.98
- Proposed Change Order No. 1: $33,800.00
- New Project Cost: $ 83,799.98

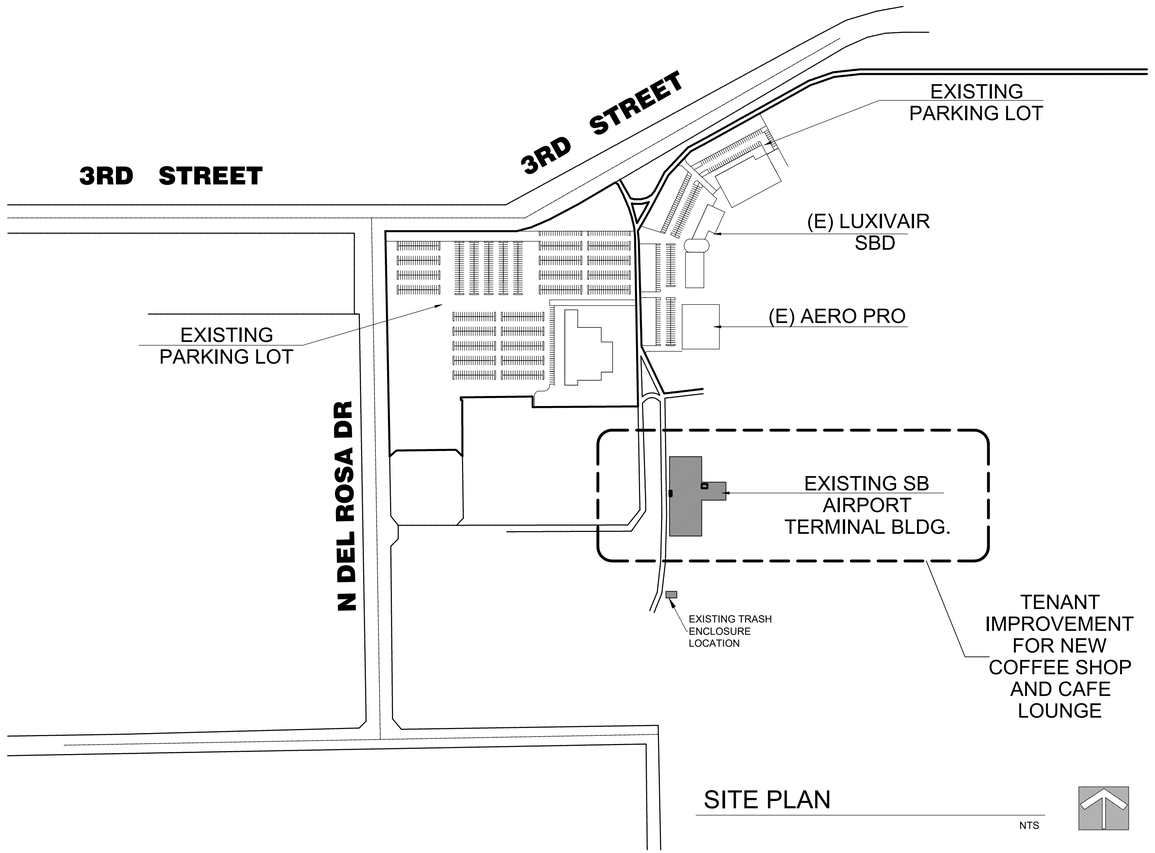
Staff recommends the Commission approve the above recommended action.

Attachments:

1. Plans
2. Change Order No. 1
3. Health Department Report

TENANT IMPROVEMENT FOR CAFE LOUNGE

FOR SAN BERNARDINO INTERNATIONAL AIRPORT TERMINAL BLDG.



SITE PLAN

NTS

BUILDING SUMMARY

PROPOSED COFFEE SHOP:	388.00 SQ. FT.
PROPOSED CAFE LOUNGE:	1,003.00 SQ. FT.

SCOPE OF WORK

TENANT IMPROVEMENTS INCLUDE THE CONSTRUCTION OF NEW COUNTER SPACE, ELECTRICAL FIXTURES & PLUMBING TO ACCOMMODATE PROPOSED TARMAC LOUNGE TO BE LOCATED ON THE 2ND LEVEL INSIDE OF SAN BERNARDINO INTERNATIONAL AIRPORT TERMINAL BUILDING.

OCCUPANT LOAD CALCULATION

CAFE LOUNGE (2ND FLOOR):
KITCHEN AREA = 248.00 SQ. FT.
PER TABLE 1004.5 KITCHEN AREAS 200 SQ. FT. GROSS PER OCCUPANT
248.00 / 200.00 =1.24 OCCUPANTS= 1 OCCUPANT

SEATING AREA = 477.00 SQ FT.
PER TABLE 1004.5 UNCONCENTRATED TABLES AREAS 15 SQ. FT. NET PER OCCUPANT
477.00 / 15.00 =31.8 OCCUPANTS= 32 OCCUPANTS

CONSTRUCTION NOTES

1. IT IS UNLAWFUL TO MAKE ANY CHANGES OR ALTERATIONS OF THESE PLANS WITHOUT THE APPROVAL OF EHS. THE APPROVAL OF THIS PLAN AND SPECIFICATIONS SHALL NOT BE CONSTRUED TO PERMIT THE VIOLATION OF ANY LAW. THESE PLANS SHALL BE KEPT AT THE SITE DURING THE CONSTRUCTION PHASE.
2. A PRELIMINARY INSPECTION SHALL BE DONE WHEN THE FLOORS, WALLS, AND CEILING FINISHES ARE COMPLETE AND THE EQUIPMENT IS IN PLACE. A FINAL INSPECTION WILL BE NEEDED IN ORDER TO RECEIVE HEALTH PERMIT APPROVAL FROM THIS AGENCY. HEALTH PERMIT APPROVAL IS REQUIRED PRIOR TO OPENING THE FOOD FACILITY OR STORING FOOD OR BEVERAGES. WHEN WORK ON THE PROJECT HAS PROGRESSED TO THE POINT OF REQUIRING AN INSPECTION, PLEASE CONTACT US AT LEAST FIVE (5) WORKING DAYS IN ADVANCE IN ORDER TO HELP US ACCOMMODATE YOUR REQUEST.
3. WHERE PIPELINES ENTER A WALL, CEILING, OR FLOOR, THE OPENING AROUND THE LINE SHALL BE TIGHTLY SEALED.
4. ALL PLUMBING LINES MUST BE AT LEAST SIX (6) INCHES OFF THE FLOOR AND 1/2 INCH AWAY FROM WALLS AND NOT CROSS ANY AISLE, TRAFFIC AREA OR DOOR OPENING.
5. ENSURE THE SAFE IS MOUNTED ON A SOLID CURB WITH APPROVED BASE COVE AROUND IT (3/8" RADIUS BASE OF APPROVED MATERIAL).
6. ALL CONDENSATE DRAIN LINES SHALL BE PROPERLY SLOPED AS PER THE APPLICABLE LOCAL PLUMBING ORDINANCES.

PROJECT DATA

A.P.N.:	N/A
ZONING:	PF-FACILITY/ COMMERCIAL OFFICE
OWNER	SAN BERNARDINO INTERNATIONAL AIRPORT 1601 E 3RD. STREET SAN BERNARDINO, CA 92408
APPLICANT:	SAN BERNARDINO INTERNATIONAL AIRPORT 1601 E 3RD. STREET SAN BERNARDINO, CA 92408
DESIGNER:	AEC MORENO 236 W. ORANGE SHOW RD., STE. 112 COLTON, CA 92324 PHONE NO.: (909) 440-2855
LEGAL DESCRIPTION:	PORTION OF LOT 11, BLOCK 49, RANCHO SAN BERNARDINO RECORDED MAP BOOK 7, PAGE 2
CITY:	SAN BERNARDINO
COUNTY:	SAN BERNARDINO
STATE:	CALIFORNIA
CONSTRUCTION TYPE:	TYPE V-B
OCCUPANCY GROUP:	A-2
APPLICABLE CODES:	ALL WORK SHALL COMPLY WITH THE 2019 CALIFORNIA BUILDING CODE 2019 CALIFORNIA PLUMBING CODE 2019 CALIFORNIA ELECTRICAL CODE 2019 CALIFORNIA MECHANICAL CODE 2019 CALIFORNIA FIRE CODE 2019 CALIFORNIA ENERGY CODE 2019 CALIFORNIA GREEN BUILDING STANDARDS CODE
NUMBER OF STORIES:	TWO STORY
AUTOMATIC FIRE SPRINKLERS:	YES - EXISTING TO PROTECT IN PLACE

SHEET INDEX

A-1. SITE PLAN
A-1.1. 1ST FLOOR TERMINAL BUILDING (REFERENCE PLANS)
A-1.2. 2ND FLOOR TERMINAL BUILDING (REFERENCE PLANS)
A-2. 2ND STORY FLOOR PLAN (CAFE LOUNGE)
A-2.1. 1ST STORY EQUIPMENT PLAN & FINISH SCHEDULE (CAFE LOUNGE)
A-2.2. 2ND STORY AS-BUILT FLOOR PLAN (CAFE LOUNGE) RESTROOM REFERENCE PLANS
A-2.3. 2ND STORY AS-BUILT FINISH SCHEDULE PLAN (CAFE LOUNGE) RESTROOM REFERENCE PLANS
A-2.4. 2ND STORY AS-BUILT FINISH SCHEDULE PLAN (CAFE LOUNGE) RESTROOM REFERENCE PLANS
A-3. 2ND STORY ELEVATIONS (CAFE LOUNGE)
A-4. 2ND STORY ELEVATIONS (CAFE LOUNGE)
E1.0. ELECTRICAL NOTES
E2.0. LIGHT PLAN
E2.1. PHOTOMETRIC PLAN
E2.2. ELECTRICAL SPECS
E3.0. POWER PLAN
E4.0. SINGLE LINE DIAGRAM
E4.1. SINGLE LINE DIAGRAM
E5.0. ELECTRICAL DETAILS
P0.1. PLUMBING NOTES AND LEGENDS
P0.2. PLUMBING SCHEDULES
P1.0. PLUMBING FLOOR PLANS
P2.0. PLUMBING FLOOR PLANS

VICINITY MAP



MAP NOT TO SCALE

AEC | MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.aecmoreno.com

NEW CAFE LOUNGE
FOR SAN BERNARDINO TERMINAL AIRPORT

SITE PLAN

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	HEALTH DEPARTMENT REVISION #1 (11/16/2022), MODIFY KITCHEN AREA	TB		11/16/22
2	REVISION #2 (12/08/2022)	MD		12/08/22

AEC | Moreno Corp.
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SUITE 112
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Fax: (909) 533-2263

REGISTERED PROFESSIONAL ENGINEER
HECTOR M. MORENO
No. C 66015
EXP. 06/30/24
CIVIL
STATE OF CALIFORNIA

HECTOR M. MORENO R.C.E.
EXP. 06/30/24

DATE: 01-05-23

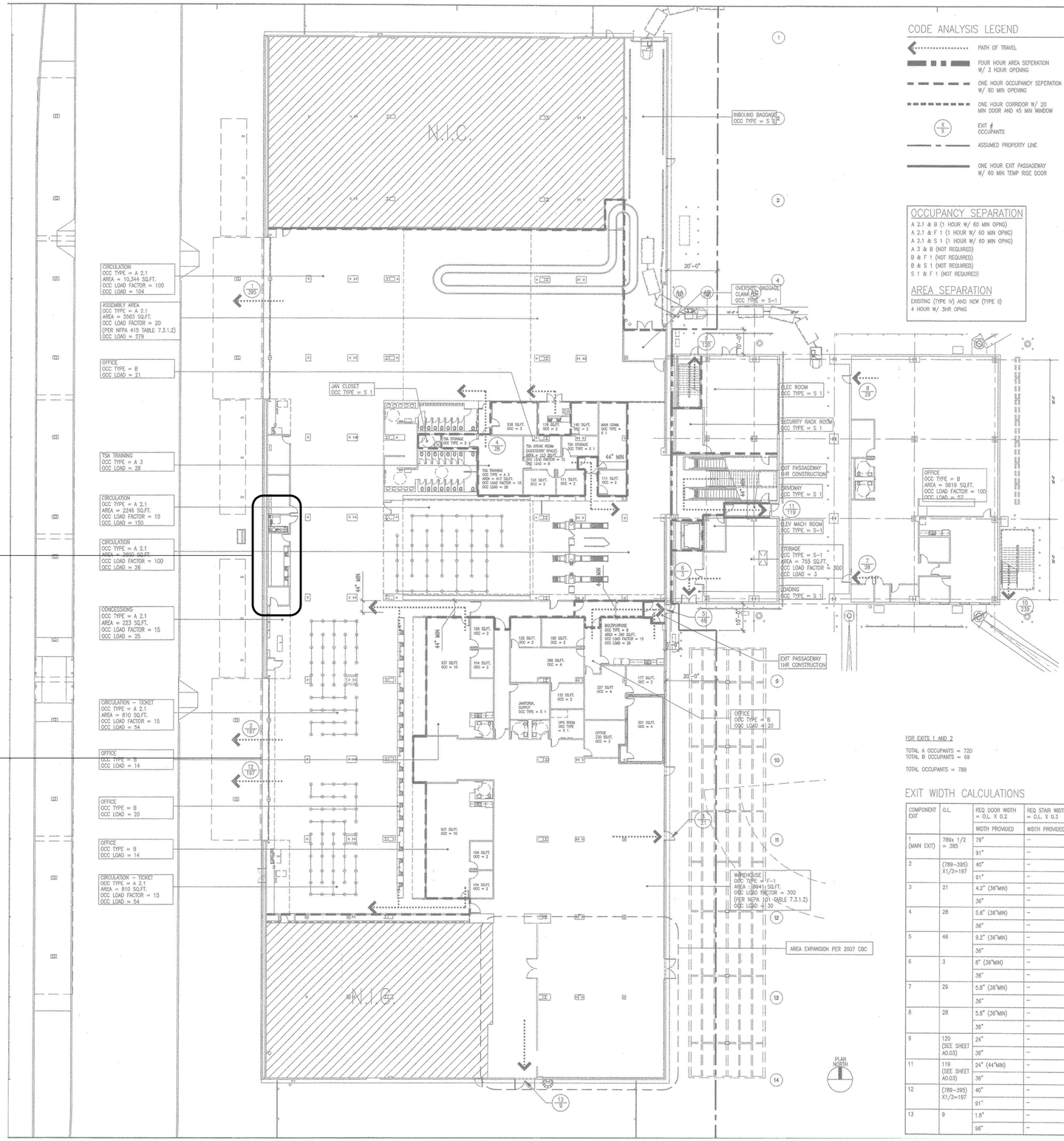
SHEET NO: A-1

reference:

NEW LELAND'S COFFEE SHOP
LOCATED INSIDE SAN BERNARDINO
AIRPORT TERMINAL BUILDING
1ST FLOOR

PROVIDE AIR CURTAIN AT DELIVERY DOOR. DELIVERY DOORS SHALL BE EQUIPPED WITH A MICROSWITCH ACTIVATED AIR CURTAIN DEVICE THAT DELIVERS AN AIR VELOCITY OF AT LEAST 750 FEET PER MINUTE, MEASURED THREE (3) FEET ABOVE THE FLOOR. THE CURTAIN OF AIR SHALL COVER THE ENTIRE WIDTH OF THE DOOR. FOR DELIVERY DOORS THAT ARE WIDER THAN FOUR (4) FEET, THE AIR CURTAIN MUST PRODUCE AN AIR VELOCITY OF AT LEAST 1600 FEET PER MINUTE, AS

MEASURED THREE (3) FEET ABOVE THE FLOOR.



FOR EXITS 1 AND 2

TOTAL A OCCUPANTS = 720
TOTAL B OCCUPANTS = 69

TOTAL OCCUPANTS = 789

EXIT WIDTH CALCULATIONS

COMPONENT EXIT	O.L.	REQ DOOR WIDTH = O.L. X 0.2	REQ STAIR WIDTH = O.L. X 0.3
		WIDTH PROVIDED	WIDTH PROVIDED
1 (MAIN EXIT)	789x 1/2 = 395	79"	--
		91"	--
2	(789-395) X1/2=197	40"	--
		91"	--
3	21	4.2" (36"MIN)	--
		36"	--
4	28	5.6" (36"MIN)	--
		36"	--
5	46	9.2" (36"MIN)	--
		36"	--
6	3	8" (36"MIN)	--
		36"	--
7	29	5.8" (36"MIN)	--
		36"	--
8	28	5.8" (36"MIN)	--
		36"	--
9	120 (SEE SHEET A0.03)	24"	--
		36"	--
11	119 (SEE SHEET A0.03)	24" (44"MIN)	--
		36"	--
12	(789-395) X1/2=197	40"	--
		91"	--
13	9	1.8"	--
		96"	--

1ST STORY FLOOR PLAN /TERMINAL BUILDING

SCALE:NTS

CODE ANALYSIS LEGEND

- PATH OF TRAVEL
- FOUR HOUR AREA SEPERATION W/ 3 HOUR OPENING
- ONE HOUR OCCUPANCY SEPERATION W/ 60 MIN OPENING
- ONE HOUR CORRIDOR W/ 20 MIN DOOR AND 45 MIN WINDOW
- EXIT # OCCUPANTS
- ASSUMED PROPERTY LINE
- ONE HOUR EXIT PASSAGEWAY W/ 60 MIN TEMP RISE DOOR

OCCUPANCY SEPARATION

A 2.1 & B (1 HOUR W/ 60 MIN OPNG)
A 2.1 & F 1 (1 HOUR W/ 60 MIN OPNG)
A 2.1 & S 1 (1 HOUR W/ 60 MIN OPNG)
A 3 & B (NOT REQUIRED)
B & F 1 (NOT REQUIRED)
B & S 1 (NOT REQUIRED)
S 1 & F 1 (NOT REQUIRED)

AREA SEPARATION

EXISTING (TYPE V) AND NEW (TYPE II)
4 HOUR W/ 3HR OPNG

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NEW CAFE LOUNGE
FOR SAN BERNARDINO TERMINAL
AIRPORT
1ST FLOOR
TERMINAL BUILDING
(FOR REFERENCE)

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	HEALTH DEPARTMENT REVISION #1 (11/10/2022)	TB		11/10/22
2	HEALTH DEPARTMENT REVISION #2 (12/08/2022)	MD		12/08/22

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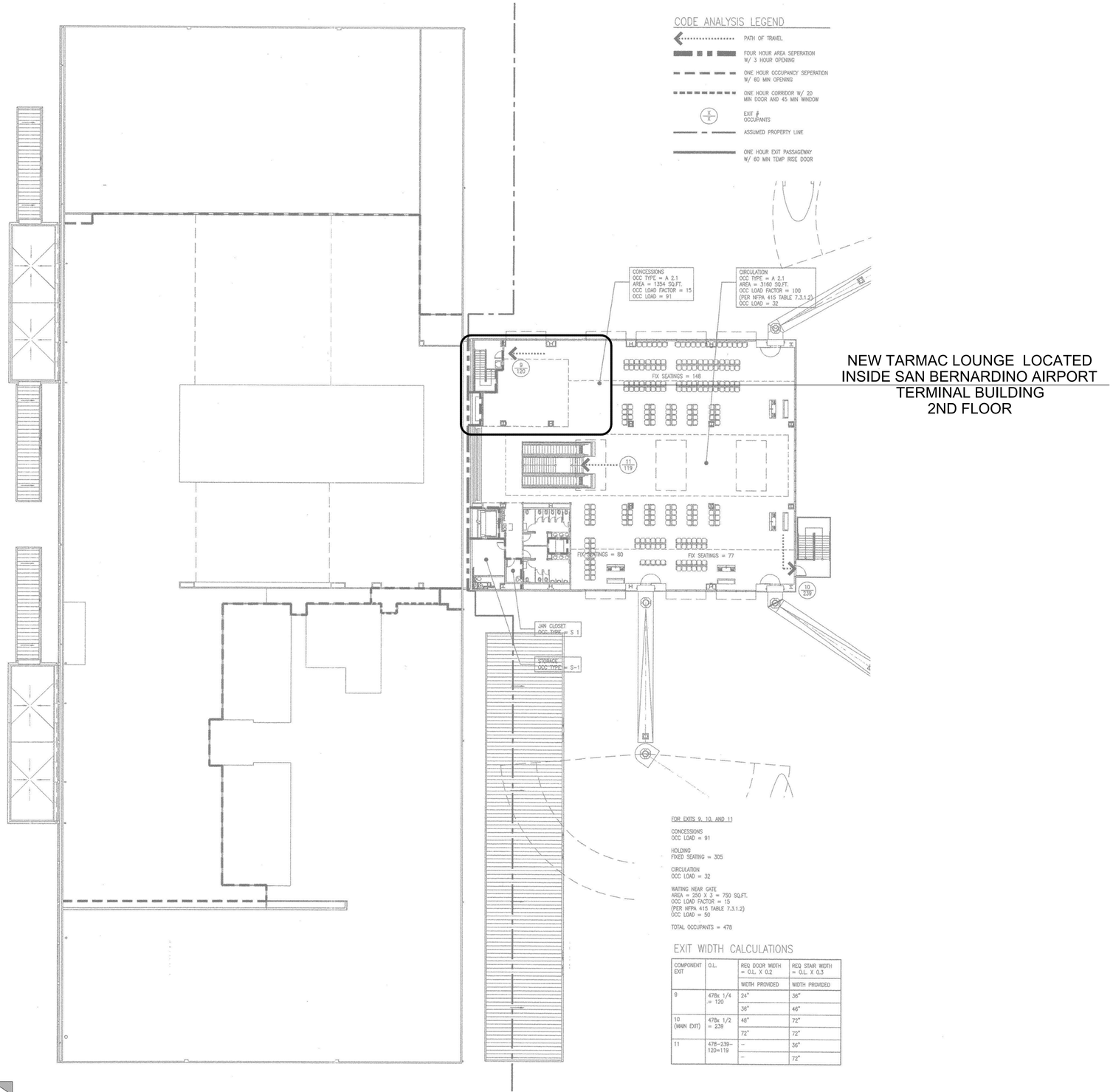
REGISTERED PROFESSIONAL ENGINEER
HECTOR M. MORENO
No. C 66015
EXP. 06/30/24
CIVIL
STATE OF CALIFORNIA

HECTOR M. MORENO R.C.E.
EXP. 06/30/24

DATE: 01-05-23

SHEET NO: A-1.1

reference:



EXIT WIDTH CALCULATIONS

COMPONENT EXIT	O.L.	REQ DOOR WIDTH = O.L. X 0.2	REQ STAIR WIDTH = O.L. X 0.3
		WIDTH PROVIDED	WIDTH PROVIDED
9	478x 1/4 = 120	24"	36"
		36"	46"
10 (MAIN EXIT)	478x 1/2 = 239	48"	72"
		72"	72"
11	478-239-120=119	--	36"
		--	72"

2nd STORY FLOOR PLAN /TERMINAL BUILDING

SCALE:NTS

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NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	HEALTH DEPARTMENT REVISION #1 (11/3/2022)	TB		11/16/22
2	HEALTH DEPARTMENT REVISION #2 (12/08/2022)	MD		12/09/22

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HECTOR M. MORENO R.C.E.
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DATE: 01-05-23

SHEET NO: A-1.2

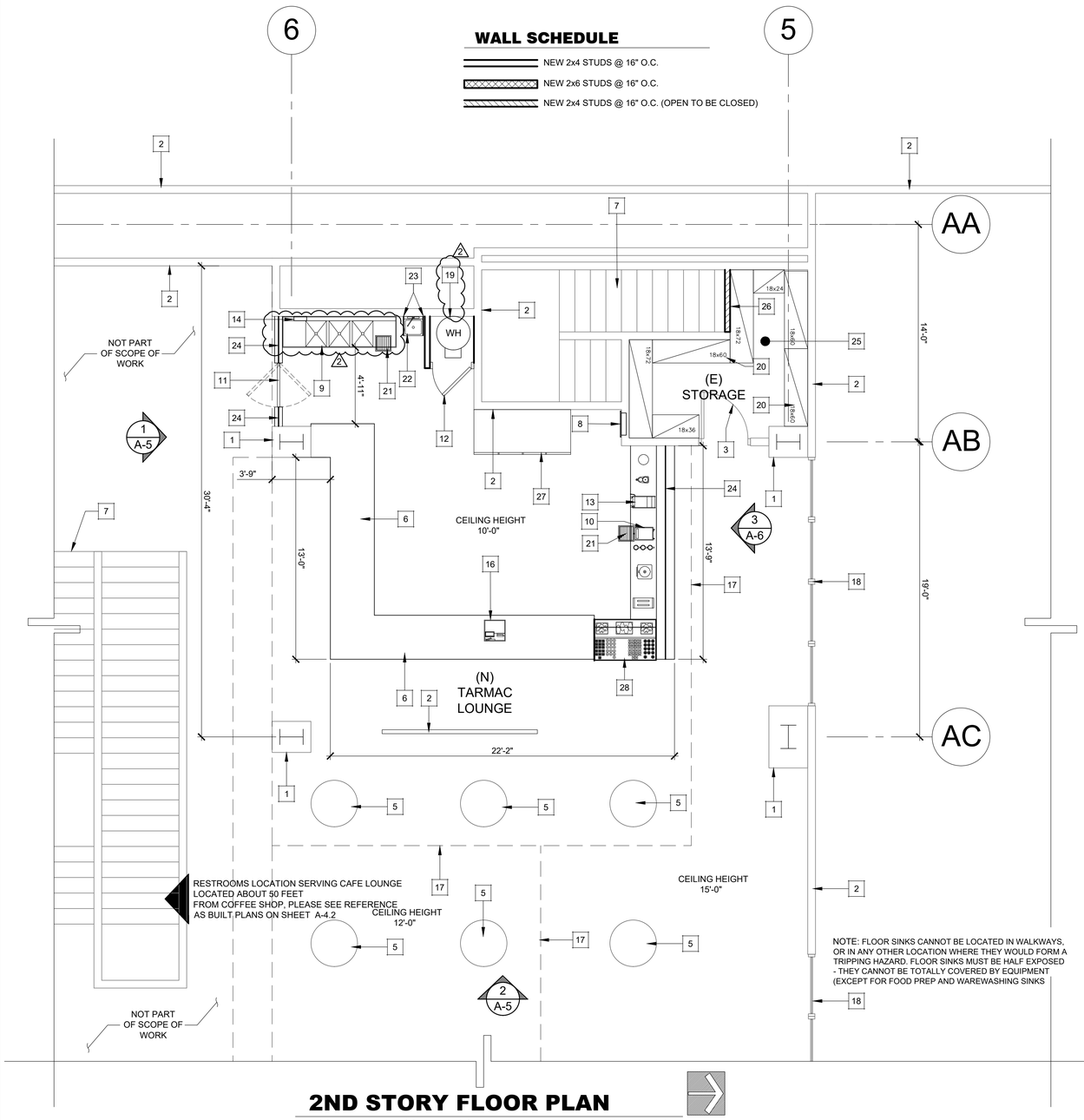
reference:

WALL SCHEDULE

NEW 2x4 STUDS @ 16" O.C.

NEW 2x6 STUDS @ 16" O.C.

NEW 2x4 STUDS @ 16" O.C. (OPEN TO BE CLOSED)



2ND STORY FLOOR PLAN /CAFE LOUNGE

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

NUMBERED KEY NOTES

1. EXISTING COLUMNS TO PROTECT IN PLACE
2. EXISTING WALL TO PROTECT IN PLACE
3. EXISTING DOOR TO PROTECT IN PLACE,CONTRACTOR TO VERIFY DOOR IS LOCKABLE
4. NEW DECORATIVE RAILING
5. NEW TARMAC LOUNGE HIGH TOP TABLES
6. NEW COUNTER WITH HEIGHT OF 34 INCHES
7. EXISTING STAIRS WILL BE CLOSED
8. EXISTING ELECTRICAL PANEL TO PROTECT IN PLACE
9. NEW THREE COMPARTMENT WARE-WASHING SINK, MANUFACTURE ELKAY, MODEL SS8354L , SHALL COMPLY WITH MINIMUM DIMENSIONS OF 18"X18"X12" DEEP COMPARTMENTS WITH 2-18"X18" DRAINBOARDS
10. NEW SINGLE COFFEE BREW MACHINE
11. NEW 3'-0"X 3'-6" SALOON DOOR
12. NEW 2'-6"X6'-8" DOOR WITH VENTS, ONE LOCATED 12 INCHES FROM CEILING AND ONE LOCATED 12 INCHES FROM FLOOR
13. NEW COUNTER WITH HEIGHT OF 36 INCHES
14. NEW STAINLESS STEEL NAPKIN DISPENSER
15. NEW WESTLAKE REFRIGERATOR MODEL # WKR-23B (REFRIGERATOR), WKF-23B (FREEZER)
16. NEW REGISTER MACHINE
17. CEILING HEIGHT CHANGE
18. EXISTING WINDOWS TO PROTECT IN PLACE
19. NEW WATER HEATER MAKE: RHEEM MODEL: ES50-12-G WITH RATING INPUT OF 12 KW (MUST MEET MINIMUM RATING OF 7 KW)
20. NEW 4-TIERS DRY STORAGE RACK TOTAL OF 32 LINER FEET PROVIDED (3-TIER HIGH = 96 FEET) OF APPROVED ANSI CERTIFIED (NSF, UL, OR ITS) WIRE RACK SHELVES.
21. NEW 12"X12"X10" FLOOR SINK
22. NEW STAINLESS STEEL HAND SINK
23. INSTALL 6" HIGH STAINLESS STEEL SPLASH GUARD
24. INSTALL 12" HIGH TEMPERED GLASS SNEEZE GUARD ON TOP OF 48" LOW WALL
25. NEW STORAGE ROOM IS EQUIPPED WITH A MINIMUM OF 32 LINEAR FEET (3-TIER HIGH = 96 FEET) OF APPROVED ANSI CERTIFIED (NSF, UL, OR ITS) WIRE RACK SHELVES.
26. EXISTING OPENING TO BE CLOSED WITH NEW 2x4 STUDS @ 16" O.C.
27. NEW EVEREST 3 DOOR REFRIGERATOR , STAINLESS STEEL, MODEL NUMBER EBRF3.
28. NEW DUAL SERVICE REFRIGERATED AIR CURTAIN MERCHANDISER. FOOD ON DISPLAY SHALL BE PROTECTED FROM CONTAMINATION BY THE USE OF PACKAGING, COUNTER, SERVICE LINE, OR SNEEZE GUARDS THAT INTERCEPT A DIRECT LINE BETWEEN THE CUSTOMER'S MOUTH AND THE FOOD BEING DISPLAYED. ENSURE THAT REFRIGERATED DISPLAY CASE IS INSTALLED ON LEGS, BECAUSE IT IS PART OF THE CUSTOMER/EMPLOYEE BARRIER.

The Tarmac Lounge Menu 2nd floor

Drinks
Water
Soda
Lemonade
Powerade
Monster
Organic Chocolate Milk
Coffee

Bakery
Premade Cinnamon Rolls
Bagels

Pre-Packaged Snacks:
Animal Crackers
Cheez Itz
Chewy Fruit Bar
Chex Mix
Chips
Corn Nuts
Ding Dongs
Famous Amos
Jack Links
Mamba
Mini Pretzels
Muffin
Oreos
Pistachios
Rice Crispy
Sweet & Salty

ACCESSIBILITY NOTES & DETAILS

11B-306.2 TOE CLEARANCE

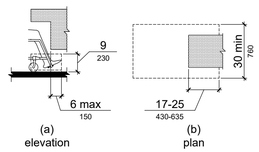
11B306.2.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN THE FINISH FLOOR OR GROUND AND 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED TOE CLEARANCE AND SHALL COMPLY WITH 306.2.

11B306.2.2 MAXIMUM DEPTH. TOE CLEARANCE SHALL EXTEND 25 INCHES (635 MM) MAXIMUM UNDER AN ELEMENT.

11B306.2.3 MINIMUM REQUIRED DEPTH. WHERE TOE CLEARANCE IS REQUIRED AT AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE TOE CLEARANCE SHALL EXTEND 17 INCHES (430 MM) MINIMUM UNDER THE ELEMENT.

11B306.2.4 ADDITIONAL CLEARANCE. SPACE EXTENDING GREATER THAN 6 INCHES (150 MM) BEYOND THE AVAILABLE KNEE CLEARANCE AT 9 INCHES (230 MM) ABOVE THE FINISH FLOOR OR GROUND SHALL NOT BE CONSIDERED TOE CLEARANCE.

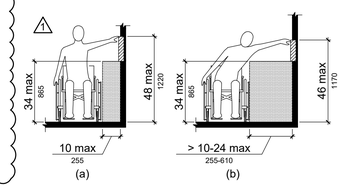
11B306.2.5 **WIDTH.** TOE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM.



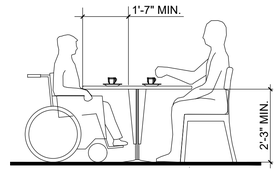
11B-308.3.2 OBSTRUCTED HIGH REACH

WHERE A CLEAR FLOOR OR GROUND SPACE ALLOWS A PARALLEL APPROACH TO AN ELEMENT AND THE HIGH SIDE REACH IS OVER AN OBSTRUCTION, THE HEIGHT OF THE OBSTRUCTION SHALL BE 34 INCHES (865 MM) MAXIMUM AND THE DEPTH OF THE OBSTRUCTION SHALL BE 24 INCHES (610 MM) MAXIMUM. THE HIGH SIDE REACH SHALL BE 48 INCHES (1220 MM) MAXIMUM FOR A REACH DEPTH OF 10 INCHES (255 MM) MAXIMUM. WHERE THE REACH DEPTH EXCEEDS 10 INCHES (255 MM), THE HIGH SIDE REACH SHALL BE 46 INCHES (1170 MM) MAXIMUM FOR A REACH DEPTH OF 24 INCHES (610 MM) MAXIMUM.

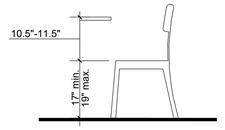
EXCEPTIONS:
1. THE TOP OF WASHING MACHINES AND CLOTHES DRYERS SHALL BE PERMITTED TO BE 36 INCHES (915 MM) MAXIMUM ABOVE THE FINISH FLOOR.
2. OPERABLE PARTS OF FUEL DISPENSERS SHALL BE PERMITTED TO BE 54 INCHES (1370 MM) MAXIMUM MEASURED FROM THE SURFACE OF THE VEHICULAR WAY WHERE FUEL DISPENSERS ARE INSTALLED ON EXISTING CURBS.



ACCESSIBLE CHAIR & TABLES

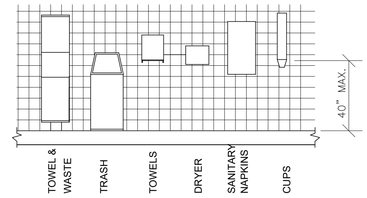


ACCESSIBLE TABLES SHOULD PROVIDE KNEE SPACE AT LEAST A 2'-3"HIGH BY 2'-6" WIDE WITH 1'-7" OF FOOT ROOM.



DINING ROOM CHAIRS SHOULD HAVE A SEAT 10.5" TO 11.5" BELOW THE TOP OF THE TABLE AND ARMREST 7"-8" ABOVE THE SEAT. TO COORDINATE WITH ACCESSIBLE TABLE, THE SEAT HEIGHT SHOULD BE 18".

ACCESSORIES



ACCESSORIES:

1. WHERE TOWEL, SANITARY NAPKIN AND WASTE RECEPTACLES AND SIMILAR DISPENSING AND DISPOSAL FIXTURES ARE PROVIDED, AT LEAST ONE OF EACH TYPE IS TO BE LOCATED WITH ALL OPERABLE PARTS, INCLUDING COIN SLOTS, WITHIN 40" FROM THE FLOOR.
2. MOUNT MIRRORS WITH BOTTOM EDGE NO MORE THAN 40" FROM FLOOR.
3. LOCATE TOILET TISSUE DISPENSERS ON WALL WITHIN 12" OF FRONT EDGE OF TOILET SEAT.

11B-306.3 KNEE CLEARANCE

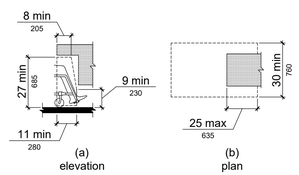
11B306.3.1 GENERAL. SPACE UNDER AN ELEMENT BETWEEN 9 INCHES AND 27 INCHES ABOVE THE FINISH FLOOR OR GROUND SHALL BE CONSIDERED KNEE CLEARANCE AND SHALL COMPLY WITH 306.3.

11B306.3.2 MAXIMUM DEPTH. KNEE CLEARANCE SHALL EXTEND 25 INCHES MAXIMUM UNDER AN ELEMENT AT 9 INCHES ABOVE FLOOR OR GROUND.

11B306.3.3 MINIMUM REQUIRED DEPTH. WHERE KNEE CLEARANCE IS REQUIRED UNDER AN ELEMENT AS PART OF A CLEAR FLOOR SPACE, THE KNEE CLEARANCE SHALL BE 11 INCHES DEEP MINIMUM AT 9 INCHES ABOVE THE FINISH FLOOR OR GROUND, AND 8 INCHES DEEP MINIMUM AT 27 INCHES ABOVE THE FINISH FLOOR OR GROUND.

11B306.3.4 CLEARANCE REDUCTION. BETWEEN 9 INCHES (230 MM) AND 27 INCHES (685 MM) ABOVE THE FINISH FLOOR OR GROUND, THE KNEE CLEARANCE SHALL BE PERMITTED TO REDUCE AT A RATE OF 1 INCH (25 MM) IN DEPTH FOR EACH 6 INCHES (150 MM) IN HEIGHT.

11B306.3.5 **WIDTH.** KNEE CLEARANCE SHALL BE 30 INCHES (760 MM) WIDE MINIMUM.



AEC | MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.aecmoreno.com

NEW CAFE LOUNGE FOR SAN BERNARDINO TERMINAL AIRPORT

2ND STORY FLOOR PLAN (CAFE LOUNGE)

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	HEALTH DEPARTMENT REVISION #1 (11/16/2022)	TB		11/16/22
2	HEALTH DEPARTMENT REVISION #2 (12/08/2022)	MD		12/08/22

AEC | Moreno Corp.
236 W. ORANGE SHOW RD.
SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263

REGISTERED PROFESSIONAL ENGINEER — HECTOR M. MORENO — No. C 66015 — EXP. 06/30/24 — STATE OF CALIFORNIA — CIVIL

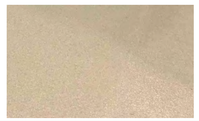
HECTOR M. MORENO R.C.E.
EXP. 06/30/24

DATE: 01-05-23

SHEET NO: A-2

reference:

COLORS & MATERIALS

SYM.	DESCRIPTION	MATERIAL
1	WEST WALL FINISH MATERIAL 4X8 CERAMIC TILE COLOR: WHITE -GLOSSY FINISH	
2	COUNTER TOP HIMACS SOLID SURFACE COLOR: ARTIC WHITE	
3	SEATING AREA FLOOR: 12" X 24" PORCELAIN TILE COLOR: RAY GRAY MATTE FINISH	
4	UNDER COUNTER AND PARTITION LOW WALL FINISH 6"X36" RECTANGLE WALL TILE COLOR: WHEAT-586 MATTE FINISH	
5	COFFEE PREP. , ORDER TAKING, AND DISH WASHING AREA STAINED CONCRETE WITH STAIN SEAL COLOR: LIGHT GRAY	

FINISH SCHEDULE

NO.	ROOM NAME	FLR.	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING	REMARKS
01	COFFEE PREP AREA	C.S.	C.S.B	–	–	–	C.T.	DRYWALL (104)	CEILING HEIGHT: 10'-0"
02	ORDER TAKING AREA	C.S.	C.S.B	–	–	–	C.T.	DRYWALL (104)	CEILING HEIGHT: 10'-0"
03	ORDER PICK UP AREA	C.S.	C.S.B	–	–	–	C.T.	DRYWALL (104)	CEILING HEIGHT: 10'-0"
04	DISH WASHING AREA	C.S.	C.S.B	C.T.	–	–	C.T.	DRYWALL (104)	CEILING HEIGHT: 10'-0"
05	HIGH TOP TABLE AREA	P.T.	–	–	–	–	–	ACT	CEILING HEIGHT: 13'-6" CEILING HEIGHT: 10'-0"
06	(E)STORAGE	C.S	C.S.B	(104)	(104)	(104)	(104)	DRYWALL (104)	CEILING HEIGHT: 10'-0"

FINISH LEGEND

QT = QUARRY TILE
FRP = FIBERGLASS REIF. PLASTIC PANELING
ACT = ACOUSTICAL CEILING TILE, WASHABLE, NON-ABSORBENT, WHITE COLOR
C.T. = CERAMIC TILE
C.B. = CERAMIC TILE WITH 3/8"RADIUS COVE SHALL BE BE INTEGRAL TO FLOOR
P.T. = PORCELAIN TILE

SS = STAINLESS STEEL
QB = QUARRY TILE, RECESSED COVE BASE, WITH 3/8"RADIUS COVE SHALL BE INTEGRAL TO FLOOR
C.S. = STAINED CONCRETE W/ STAIN SEAL
C.S.B = STAINED CONCRETE BASE WITH STAIN SEAL WITH 3/8"RADIUS COVE SHALL BE INTEGRAL TO FLOOR
(104) = WATER RESISTANT DRYWALL WITH GLOSS ENAMEL PAINT

NOTE:

1. CONCRETE FLOORS ARE TO BE SEALED WITH A COMMERCIAL-GRADE SEAMLESS TROWELED EPOXY FLOOR SYSTEM, OR USDA (OR EQUIVALENT) APPROVED PENETRATING SEALER, WHICH IS NONABSORBENT, GREASE AND ACID RESISTANT. NON-APPROVED SEALERS (LIKE POLYURETHANE) AND EPOXY PAINTS (I.E. ANY FORM OF GARAGE FLOOR PAINTS AVAILABLE AT RESIDENTIAL HOME STORES) ARE NOT ACCEPTABLE.

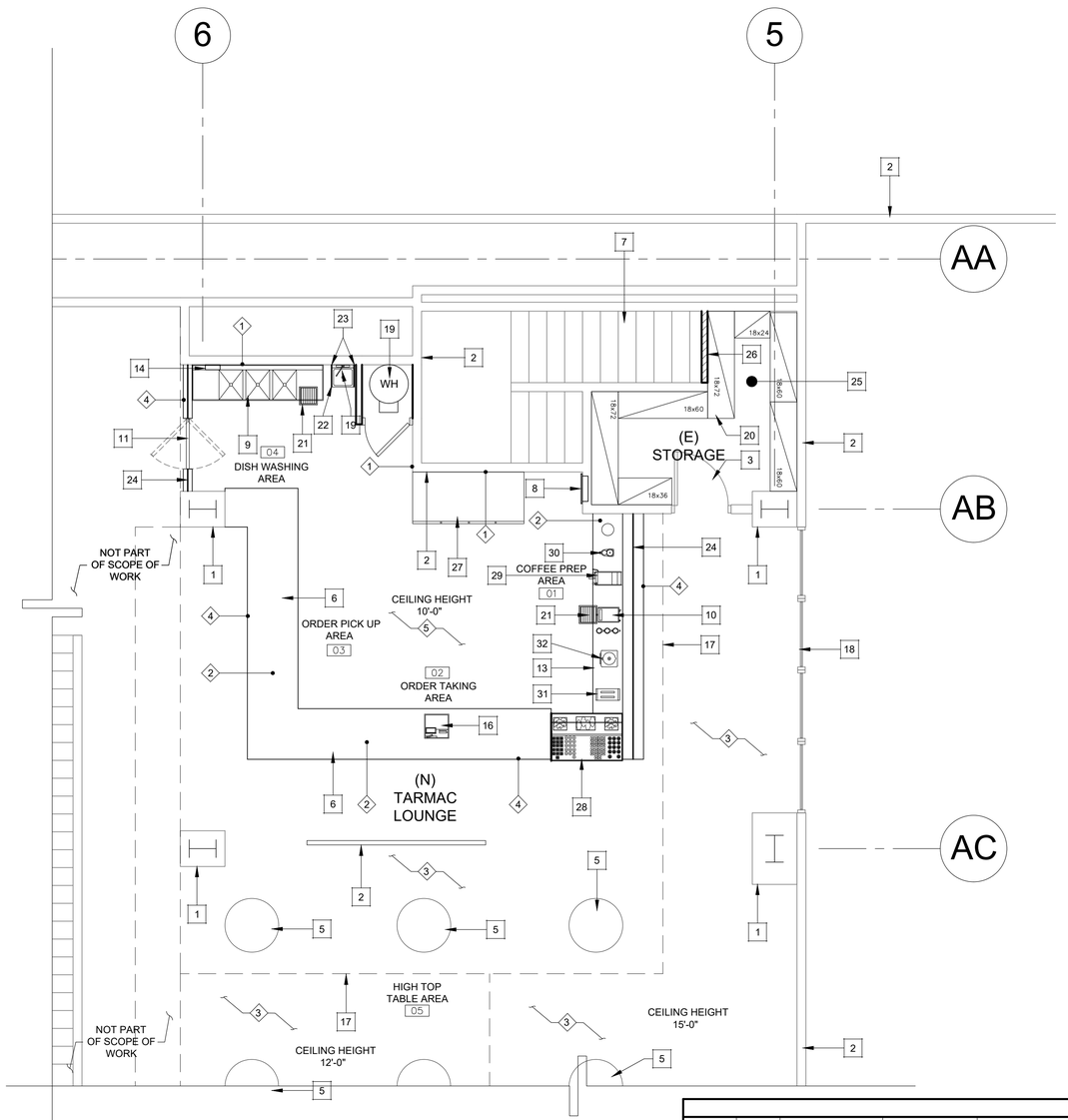
2. USE APPROVED (SMOOTH, NONABSORBENT, DURABLE, WASHABLE AND LIGHT IN COLOR) ACOUSTIC CEILING PANELS OVER ALL AREAS IN WHICH FOOD IS PREPARED, PACKAGED, OR STORED, WHERE ANY UTENSIL ARE WASHED, WHERE REFUSE OR GARBAGE IS STORED, WHERE JANITORIAL FACILITIES ARE LOCATED, IN ALL TOILET AND HANDWASHING AREAS AND IN EMPLOYEE CHANGE AND STORAGE AREAS.

3. FLOOR SURFACES IN ALL AREAS IN WHICH FOOD IS PREPARED, PACKAGED, OR STORED, WHERE ANY UTENSIL IS WASHED, WHERE REFUSE OR GARBAGE IS STORED, WHERE JANITORIAL FACILITIES ARE LOCATED, IN ALL TOILET AND HANDWASHING AREAS AND IN EMPLOYEE CHANGE AND STORAGE AREAS SHALL BE OF AN APPROVED TYPE THAT CONTINUES UP THE WALL FOUR (4) INCHES, IN A SEAMLESS MANNER, FORMING A 3/8 INCH MINIMUM RADIUS COVE AS AN INTEGRAL UNIT.

4.FLOORING UNDER EQUIPMENT AND AT THE BASE COVES SHALL BE COMPLETELY SMOOTH. FLOOR SURFACES WHICH CONTAIN SLIP RESISTANT AGENTS SHALL BE RESTRICTED TO TRAFFIC AREAS ONLY.

5. THE WALLS AND CEILINGS OF ALL ROOMS SHALL BE OF A DURABLE, SMOOTH, NONABSORBENT, AND EASILY CLEANABLE SURFACE.

6. THE WALL SURFACES BEHIND AND ADJACENT ALL SINKS (INCLUDING HANDWASH AND MOP SINKS) SHALL BE COVERED WITH FIBERGLASS REINFORCED POLYESTER (FRP), STAINLESS STEEL, TILE, OR THE EQUIVALENT. THE APPROVED WALL COVER MUST EXTEND UP THE WALL AT LEAST FOUR (4) FEET FROM THE COVED BASE AND COVER THE WALLS BEHIND THE SINK AND ACCOMPANYING DRAINBOARDS TO A MINIMUM OF EIGHTEEN (18) INCHES ON BOTH SIDES.



2nd STORY EQUIPMENT PLAN & FINISH SCHEDULE CAFE LOUNGE

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

NOTE:

1. ALL NEW AND REPLACEMENT FOOD-RELATED AND UTENSIL RELATED EQUIPMENT SHALL BE CERTIFIED OR CLASSIFIED FOR SANITATION BY AN AMERICAN NATIONAL STANDARDS INSTITUTE (ANSI) ACCREDITED CERTIFICATION PROGRAM (NSF, ITS, ETL, EPH, UL SANITATION OR CSA).
2. ALL EQUIPMENT, INCLUDING SHELVING, MUST BE SUPPORTED BY SIX (6) INCH HIGH, EASILY CLEANABLE LEGS, COMMERCIAL CASTORS, OR COMPLETELY SEALED IN POSITION ON A FOUR (4) INCH HIGH CONTINUOUSLY COVED BASE OR CONCRETE CURB TO FACILITATE EASE OF CLEANING.

NUMBERED KEY NOTES

1. EXISTING COLUMNS TO PROTECT IN PLACE
2. EXISTING WALL TO PROTECT IN PLACE
3. EXISTING DOOR TO PROTECT IN PLACE
4. NEW DECORATIVE RAILING
5. NEW HIGH TOP TABLES SERVING TARMAC LOUNGE
6. NEW COUNTER WITH HEIGHT OF 34 INCHES
7. EXISTING STAIRS WILL BE CLOSED
8. EXISTING ELECTRICAL PANEL TO PROTECT IN PLACE
9. NEW THREE COMPARTMENT WARE-WASHING SINK, MANUFACTURE ELKAY, MODEL SS8354L , SHALL COMPLY WITH MINIMUM DIMENSIONS OF 18"X18"X12" DEEP COMPARTMENTS WITH 2-18"X18" DRAINBOARDS
10. NEW STAINLESS STEEL SINGLE COFFEE BREW MACHINE
11. NEW 3'-0"X 3'-6" SALOON DOOR
12. NOT IN USE
13. NEW COUNTER WITH HEIGHT OF 36 INCHES
14. NEW STAINLESS STEEL NAPKIN DISPENSER
15. NOT IN USE
16. NEW REGISTER MACHINE
17. CEILING HEIGHT CHANGE
18. EXISTING WINDOWS TO PROTECT IN PLACE
19. NEW WATER HEATER MAKE: RHEEM MODEL: ES50-12-G WITH RATING I NPUT OF 12 KW (MUST MEET MINIMUM RATING OF 7 KW)
20. NEW 4-TIERS DRY STORAGE RACK TOTAL OF 32 LINER FEET PROVIDED
21. NEW 12"X12"X10" FLOOR SINK,FLOOR SINKS CANNOT BE LOCATED IN WALKWAYS, OR IN ANY OTHER LOCATION WHERE THEY WOULD FORM A TRIPPING HAZARD. FLOOR SINKS MUST BE HALF EXPOSED - THEY CANNOT BE TOTALLY COVERED BY EQUIPMENT (EXCEPT FOR FOOD PREP AND WAREWASHING SINKS
22. NEW STAINLESS STEEL HAND SINK
23. INSTALL 6" HIGH STAINLESS STEEL SPLASH GUARD
24. INSTALL 12" HIGH TEMPERED GLASS SNEEZE GUARD ON TOP OF 48" LOW WALL
25. NEW STORAGE ROOM IS EQUIPPED WITH A MINIMUM OF 32 LINEAR FEET (3-TIER HIGH = 96 FEET) OF APPROVED ANSI CERTIFIED (NSF, UL, OR ITS) WIRE RACK SHELVES.
26. EXISTING OPENING TO BE CLOSED WITH NEW 2x4 STUDS @ 16" O.C.
27. NEW EVEREST 3 DOOR REFRIGERATOR , STAINLESS STEEL, MODEL NUMBER EBRF3.
28. NEW DUAL SERVICE REFRIGERATED AIR CURTAIN MERCHANDISER. FOOD ON DISPLAY SHALL BE PROTECTED FROM CONTAMINATION BY THE USE OF PACKAGING, COUNTER, SERVICE LINE, OR SNEEZE GUARDS THAT INTERCEPT A DIRECT LINE BETWEEN THE CUSTOMER'S MOUTH AND THE FOOD BEING DISPLAYED. ENSURE THAT REFRIGERATED DISPLAY CASE IS INSTALLED ON LEGS, BECAUSE IT IS PART OF THE CUSTOMER/EMPLOYEE BARRIER.
29. NEW ESPRESSO MACHINE
30. NEW COFFEE BEAN GRINDER
31. NEW STAINLESS STEEL SLICE TOASTER
32. NEW BLENDER

EQUIPMENT CHECKLIST

SYMBOL	ITEM #	ITEM	MANUFACTURER	MODEL NUMBER	NSF, ANSI, ITS, ETL EPH, UL OR CSA LISTED	SPECIALLY FABRICATED	GAS	ELECTRICAL	HOT WATER	COLD WATER	DIRECT WASTE	INDIRECT WASTE
10	1	COFFEE BREW MACHINE	BUNN	38700.0043	NSF UL			●				
28	2	AIR CURTAIN MERCHANDISER	AVANTCO	BCAC-48	ETL			●				
12	3	REFRIGERATOR	WESTLAKE	WKR-23B (FRIDGE) WKF-23B (FREEZER)	ETL NSF UL			●				
9	4	3-COMPARTMENT SINK	ELKAY	SS8354L	NSF				●	●	●	
20	5	4-TIERS DRY STORAGE RACK	REGENCY	460SW18"KIT	NSF							
22	6	HAND SINK	ELKAY	EHS-14X	NSF ANSI				●	●	●	
19	7	WATER HEATER	RHEEM	ES50-12-G	NSF			●	●	●	●	
27	8	3 UPRIGHT DOOR REFRIGERATOR	EVEREST	EBRF3	NSF			●				
29	9	ESPRESSO MACHINE	ASTRA	GS-022	UL NSF CSA ETL			●	●			
30	10	COFFEE BEAN GRINDER	ESTELLA CAFFE	ECEG26	NSF ETL			●				
31	11	SLICE COMMERCIAL TOASTER	AVA TOAST	184MDT4	ETL			●				
32	12	BLENDER	BLENDTEC STEALTH	885 MODEL S885C2901-B1GB1D	UL CSA NFS			●				

*INSERT LENGTH OF RACK IN INCHES (EX: 36" LONG MODEL NUMBER WILL BE 460SW1836KIT)

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Office: (909) 440-2855
Fax: (909) 533-2263
www.aecmoreno.com

NEW CAFE LOUNGE FOR SAN BERNARDINO TERMINAL AIRPORT

2ND STORY EQUIPMENT PLAN & FINISH SCHEDULE (CAFE LOUNGE)

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

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2	HEALTH DEPARTMENT REVISION #2 (12/08/2022)	MO		12/08/22

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236 W. ORANGE SHOW RD.
SUITE 112
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Office: (909) 440-2855
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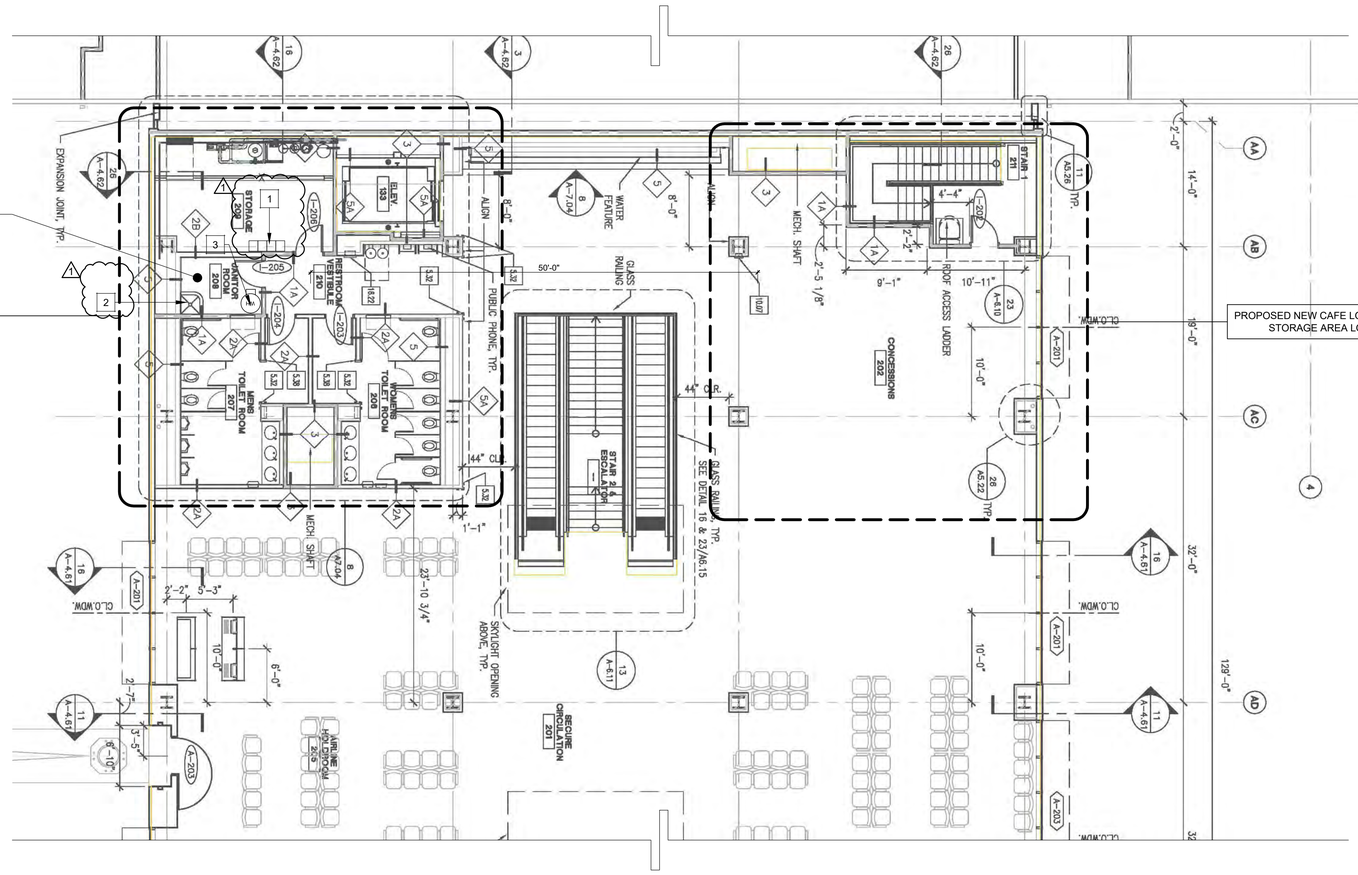
REGISTERED PROFESSIONAL ENGINEER HECTOR M. MORENO No. C 66015 EXP. 06/30/24 CIVIL STATE OF CALIFORNIA

HECTOR M. MORENO R.C.E.
EXP. 06/30/24

DATE: 01-05-23

SHEET NO: A-2.1

reference:



2nd STORY AS-BUILT FLOOR PLAN

(REFERENCE PLANS) SCALE:1/8" = 1'-0"

NUMBERED KEY NOTES

1. NEW METAL LOCKERS 12"Wx12"Dx36"H. LOCKERS MUST BE INSTALLED ON SIX(6) INCH HIGH, EASILY CLEANABLE LEGS, CANTILEVERED OFF THE WALL, OR ON A MINIMUM FOUR (4)INCH HIGH CONTINUOUSLY COVED CURB ON PLATFORM. L-ANGLE LEGS ARE NOT ACCEPTABLE.
2. EXISTING MOP SINK FLOOR MOUNTED 32"X32"X12" DEEP, CORNER TYPE W/ STAINLESS STEEL DRAIN AND CAP.
3. EXISTING INSTANTANEOUS WATER HEATER SERVING MOP SINK, MEN'S AND WOMEN'S RESTROOMS TO BE REMOVED AND REPLACED WITH WATER HEATER MAKE: RHEEM MODEL: ES50-12-G WITH RATING INPUT OF 12 KW (MUST MEET MINIMUM RATING OF 6 KW)

AEC | MORENO CORPORATION
www.aecmoreno.com
236 W. ORANGE SHOW RD. SUITE 112
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Office: (909) 440-2855
Fax: (909) 533-2263

NEW CAFE LOUNGE FOR SAN BERNARDINO TERMINAL AIRPORT

2ND STORY AS-BUILT FLOOR PLAN (CAFE LOUNGE) RESTROOM REFERENCE PLANS

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

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REGISTERED PROFESSIONAL ENGINEER
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No. C 66015
EXP. 06/30/24
CIVIL
STATE OF CALIFORNIA

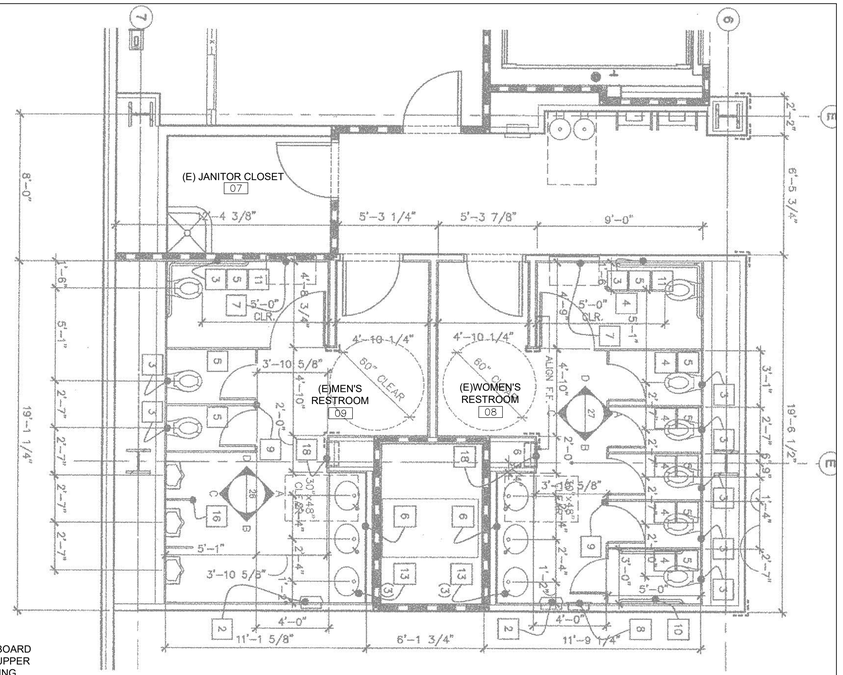
HECTOR M. MORENO R.C.E.
EXP. 06/30/24

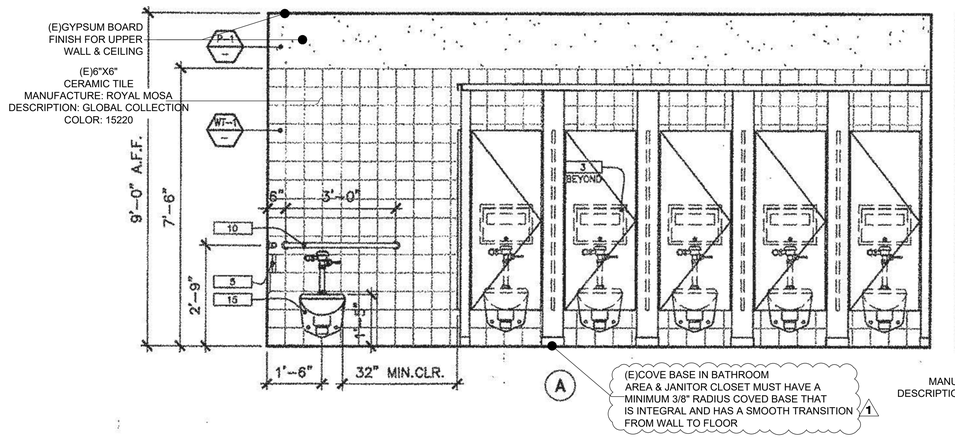
DATE: 01-05-23

SHEET NO: A-2.2

reference:

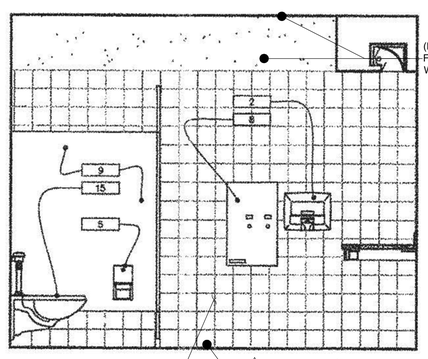
1	BOBRICK	B-3942 – SEMI-RECESSED PAPER TOWEL DISPENSER/WASTE RECEPTACLE
2	BOBRICK	B-7507 115V – RECESSED HAND DRYER
3	BOBRICK	B-221 – CLASSIC SERIES SURFACE MOUNTED SEAT-COVER DISPENSER
4	BOBRICK	B-270 – CONTURA SERIES SURFACE MOUNTED SANITARY NAPKIN DISPENSER
5	BOBRICK	B-2888 – SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER
6	BOBRICK	B-165 2436 – MIRROR WITH STAINLESS STEEL CHANNEL FRAME
7	KOALA KARE	KB110-SSRE – RECESSED MOUNTED STAINLESS STEEL FINISH BABY CHANGING STAT
8	BOBRICK	B-3500 25 RECESSED NAPKIN/TAMPON VENDORS
9	–	TOILET PARTITIONS – (MANUFACTURER TBD)
10	BOBRICK	B-5806 x 36 – 1 1/4" DIA. STAINLESS STEEL GRAB BARS W/ SNAP FLANGE
11	BOBRICK	B-5806 x 42 – 1 1/4" DIA. STAINLESS STEEL GRAB BARS W/ SNAP FLANGE
12	BOBRICK	B-5050 – MATRIX SERIES SURFACE-MOUNTED SOAP DISPENSER
13	BOBRICK	B-822 – LAVATORY-MOUNTED SOAP DISPENSER
14	–	MIRROR W/ STAINLESS STEEL FRAME ALL AROUND
15	–	TOILET (SEE PLUMBING DWGS.)
16	–	URINAL (SEE PLUMBING DWGS.)
17	–	URINAL PARTITIONS – (MANUFACTURER – TBD)
18	BOBRICK	B-39003 – RECESSED PAPER TOWEL DISPENSER/WASTE RECEPTACLE





A

(E)COVE BASE IN BATHROOM AREA & JANITOR CLOSET MUST HAVE A MINIMUM 3/8" RADIUS COVED BASE THAT IS INTEGRAL AND HAS A SMOOTH TRANSITION FROM WALL TO FLOOR 1

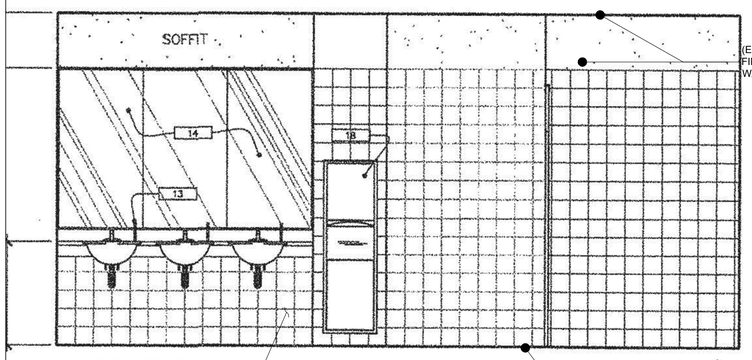


(E)6"X6" CERAMIC TILE
MANUFACTURE: ROYAL MOSA
DESCRIPTION: GLOBAL COLLECTION
COLOR: 15220

B

1 (E)COVE BASE IN BATHROOM AREA & JANITOR CLOSET MUST HAVE A MINIMUM 3/8" RADIUS COVED BASE THAT IS INTEGRAL AND HAS A SMOOTH TRANSITION FROM WALL TO FLOOR

27 WOMENS CONCOURSE TOILET ROOMS

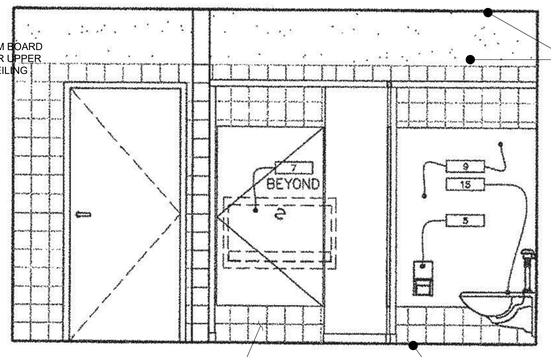


(E)GYPSUM BOARD FINISH FOR UPPER WALL & CEILING

(E)6"X6" CERAMIC TILE
MANUFACTURE: ROYAL MOSA
DESCRIPTION: GLOBAL COLLECTION
COLOR: 15220

C

1 (E)COVE BASE IN BATHROOM AREA & JANITOR CLOSET MUST HAVE A MINIMUM 3/8" RADIUS COVED BASE THAT IS INTEGRAL AND HAS A SMOOTH TRANSITION FROM WALL TO FLOOR



(E)GYPSUM BOARD FINISH FOR UPPER WALL & CEILING

(E)6"X6" CERAMIC TILE
MANUFACTURE: ROYAL MOSA
DESCRIPTION: GLOBAL COLLECTION
COLOR: 15220

D

NOTE:

1 (E)COVE BASE IN BATHROOM AREA & JANITOR CLOSET MUST HAVE A MINIMUM 3/8" RADIUS COVED BASE THAT IS INTEGRAL AND HAS A SMOOTH TRANSITION FROM WALL TO FLOOR

RESTROOMS

SCALE: 1/4"=1'-0

2

FINISH SCHEDULE

NO.	ROOM NAME	FLR.	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING	REMARKS
07	JANITOR CLOSET	TRZ	TRZB	CT	CT	CT	CT	DRYWALL (104)	CEILING HEIGHT: 10'-0"
08	WOMEN'S RESTROOMS	TRZ	TRZB	CT	CT	CT	CT	DRYWALL (104)	CEILING HEIGHT: 10'-0"
09	MEN'S RESTROOMS	TRZ	TRZB	CT	CT	CT	CT	DRYWALL (104)	CEILING HEIGHT: 10'-0"

FINISH LEGEND

QT = QUARRY TILE
FRP = FIBERGLASS REIF. PLASTIC PANELING
ACT = ACOUSTICAL CEILING TILE, WASHABLE, NON-ABSORBENT, WHITE COLOR
C.T. = CERAMIC TILE
C.B. = CERAMIC TILE WITH 3/8"RADIUS COVE SHALL BE BE INTEGRAL TO FLOOR
P.T. = PORCELAIN TILE
SS = STAINLESS STEEL
QB = QUARRY TILE, RECESSED COVE BASE, WITH 3/8"RADIUS COVE SHALL BE INTEGRAL TO FLOOR
C.S. = STAINED CONCRETE W/ STAIN SEAL
C.S.B = STAINED CONCRETE BASE WITH STAIN SEAL WITH 3/8"RADIUS COVE SHALL BE INTEGRAL TO FLOOR
(104) = WATER RESISTANT DRYWALL WITH GLOSS ENAMEL PAINT
TRZ = TERRAZO
TRZB = TERRAZO BASE WITH 3/8" RADIUS COVE, INTEGRAL TO FLOOR

NOTE: CONCRETE FLOORS ARE TO BE SEALED WITH A COMMERCIAL-GRADE SEAMLESS TROWELED EPOXY FLOOR SYSTEM, OR USDA (OR EQUIVALENT) APPROVED PENETRATING SEALER, WHICH IS NONABSORBENT, GREASE AND ACID RESISTANT. NON-APPROVED SEALERS (LIKE POLYURETHANE) AND EPOXY PAINTS (I.E. ANY FORM OF GARAGE FLOOR PAINTS AVAILABLE AT HOME STORES) ARE NOT ACCEPTABLE.

AEC | MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.aecmoreno.com

NEW CAFE LOUNGE
FOR SAN BERNARDINO TERMINAL AIRPORT
2ND STORY AS-BUILT FINISH
SCHEDULE PLAN (CAFE LOUNGE)
RESTROOM REFERENCE PLANS

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	HEALTH DEPARTMENT REVISION #1 (11/10/2022)	TB		11/10/22
2	HEALTH DEPARTMENT REVISION #2 (12/06/2022)	MD		12/06/22

AEC | Moreno Corp.
236 W. ORANGE SHOW RD.
SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263

REGISTERED PROFESSIONAL ENGINEER
HECTOR M. MORENO
No. C 66015
EXP. 06/30/24
CIVIL
STATE OF CALIFORNIA

HECTOR M. MORENO R.C.E.
EXP. 06/30/24

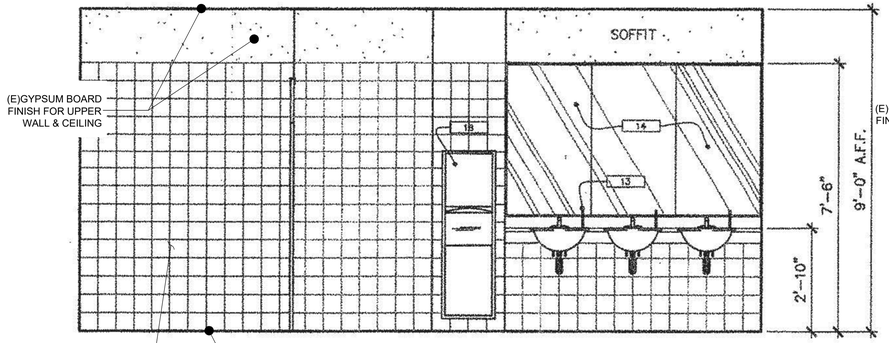
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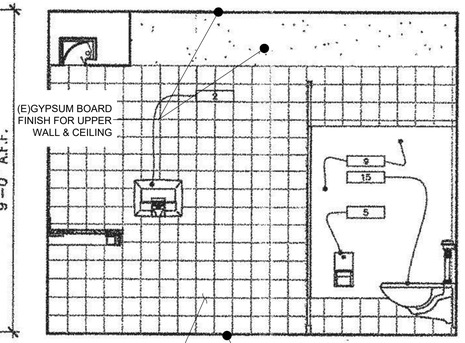
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reference:

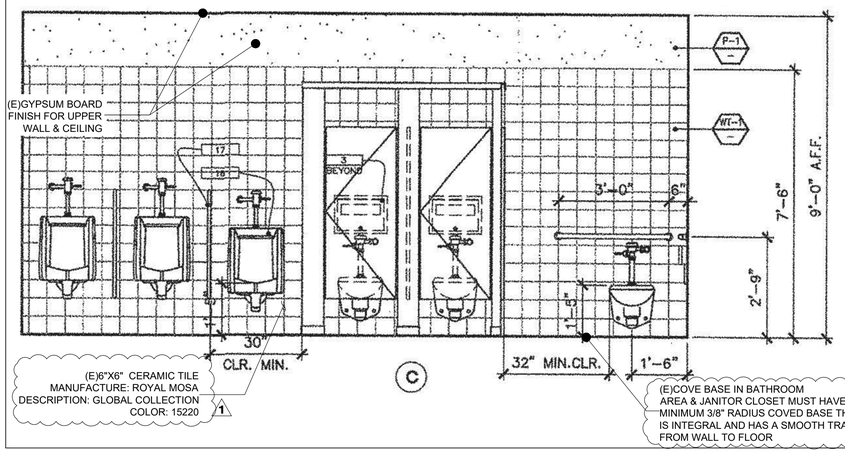
1	BOBRICK	B-3942 -- SEMI-RECESSED PAPER TOWEL DISPENSER/WASTE RECEPTACLE
2	BOBRICK	B-7507 115V - RECESSED HAND DRYER
3	BOBRICK	B-221 - CLASSIC SERIES SURFACE MOUNTED SEAT-COVER DISPENSER
4	BOBRICK	B-270 - CONTURA SERIES SURFACE MOUNTED SANITARY NAPKIN DISPENSER
5	BOBRICK	B-2888 - SURFACE MOUNTED MULTI-ROLL TOILET TISSUE DISPENSER
6	BOBRICK	B-165 2436 - MIRROR WITH STAINLESS STEEL CHANNEL FRAME
7	KOALA KARE	KB110-SSRE - RECESSED MOUNTED STAINLESS STEEL FINISH BABY CHANGING STATION
8	BOBRICK	B-3500 25 RECESSED NAPKIN/TAMPON VENDORS
9	--	TOILET PARTITIONS - (MANUFACTURER TBD)
10	BOBRICK	B-5806 x 36 - 1 1/4" DIA. STAINLESS STEEL GRAB BARS W/ SNAP FLANGE
11	BOBRICK	B-5806 x 42 - 1 1/4" DIA. STAINLESS STEEL GRAB BARS W/ SNAP FLANGE
12	BOBRICK	B-5050 -- MATRIX SERIES SURFACE-MOUNTED SOAP DISPENSER
13	BOBRICK	B-822 - LAVATORY-MOUNTED SOAP DISPENSER
14	--	MIRROR W/ STAINLESS STEEL FRAME ALL AROUND
15	--	TOILET (SEE PLUMBING DWGS.)
16	--	URINAL (SEE PLUMBING DWGS.)
17	--	URINAL PARTITIONS - (MANUFACTURER - TBD)
18	BOBRICK	B-39003 - RECESSED PAPER TOWEL DISPENSER/WASTE RECEPTACLE

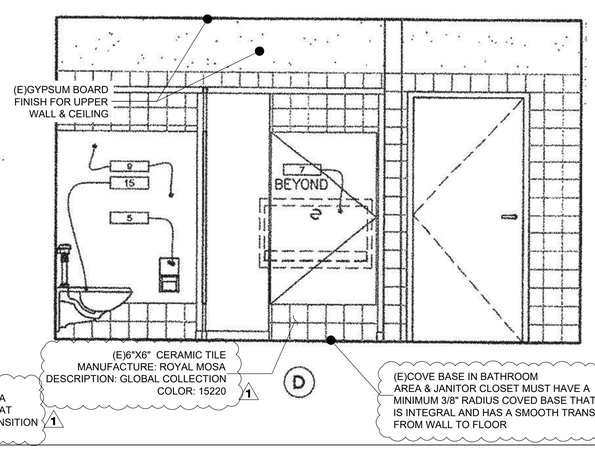
30 ACCESSORY MOUNTING HEIGHTS AND SCHEDULE

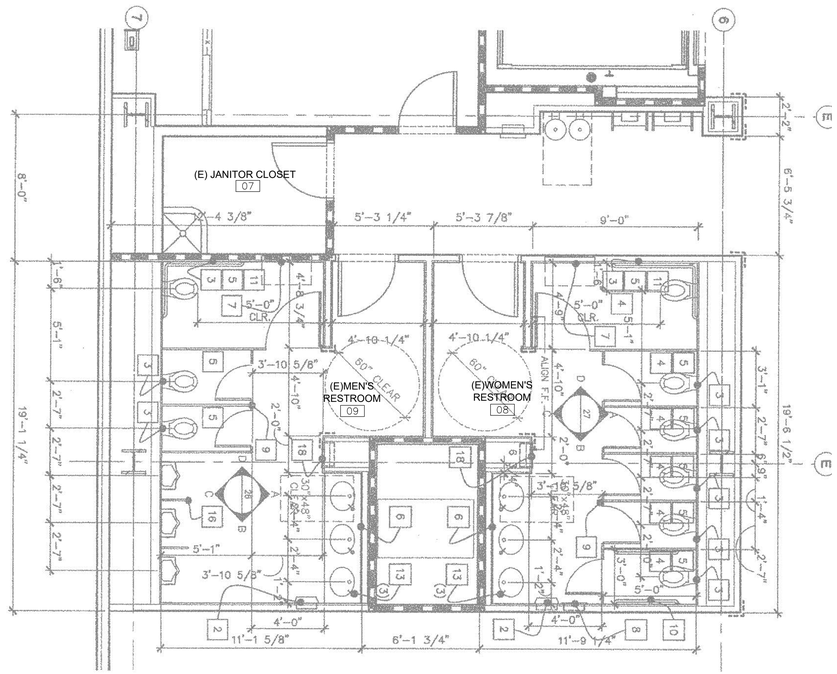




26 MENS CONCOURSE TOILET ROOMS







RESTROOMS

SCALE: 1/4"=1'-0

FINISH SCHEDULE

NO.	ROOM NAME	FLR.	BASE	WALLS NORTH	WALLS EAST	WALLS SOUTH	WALLS WEST	CEILING	REMARKS
07	JANITOR CLOSET	TRZ	TRZB	CT	CT	CT	CT	DRYWALL (104)	CEILING HEIGHT: 10'-0"
08	WOMEN'S RESTROOMS	TRZ	TRZB	CT	CT	CT	CT	DRYWALL (104)	CEILING HEIGHT: 10'-0"
09	MEN'S RESTROOMS	TRZ	TRZB	CT	CT	CT	CT	DRYWALL (104)	CEILING HEIGHT: 10'-0"

FINISH LEGEND

QT	=	QUARRY TILE	SS	=	STAINLESS STEEL
FRP	=	FIBERGLASS REIF. PLASTIC PANELING	QB	=	QUARRY TILE, RECESSED COVE BASE, WITH 3/8"RADIUS COVE SHALL BE INTEGRAL TO FLOOR
ACT	=	ACOUSTICAL CEILING TILE, WASHABLE, NON-ABSORBENT, WHITE COLOR	C.S.	=	STAINED CONCRETE W/ STAIN SEAL
C.T.	=	CERAMIC TILE	C.S.B	=	STAINED CONCRETE BASE WITH STAIN SEAL WITH 3/8"RADIUS COVE SHALL BE INTEGRAL TO FLOOR
C.B.	=	CERAMIC TILE WITH 3/8"RADIUS COVE SHALL BE INTEGRAL TO FLOOR	(104)	=	WATER RESISTANT DRYWALL WITH GLOSS ENAMEL PAINT
P.T.	=	PORCELAIN TILE	TRZ	=	TERRAZO
			TRZB	=	TERRAZO BASE WITH 3/8" RADIUS COVE, INTEGRAL TO FLOOR

NOTE: CONCRETE FLOORS ARE TO BE SEALED WITH A COMMERCIAL-GRADE SEAMLESS TROWELED EPOXY FLOOR SYSTEM, OR USDA (OR EQUIVALENT) APPROVED PENETRATING SEALER, WHICH IS NONABSORBENT, GREASE AND ACID RESISTANT. NON-APPROVED SEALERS (LIKE POLYURETHANE) AND EPOXY PAINTS (I.E. ANY FORM OF GARAGE FLOOR PAINTS AVAILABLE AT HOME STORES) ARE NOT ACCEPTABLE.

AEC MORENO CORPORATION
www.aecmoreno.com
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263

NEW CAFE LOUNGE
FOR SAN BERNARDINO TERMINAL
AIRPORT

2ND STORY AS-BUILT FINISH
SCHEDULE PLAN (CAFE LOUNGE)
RESTROOM REFERENCE PLANS

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	HEALTH DEPARTMENT REVISION #1 (11/12/2022)	TB		11/16/22
2	HEALTH DEPARTMENT REVISION #2 (12/30/2022)	MD		12/06/22

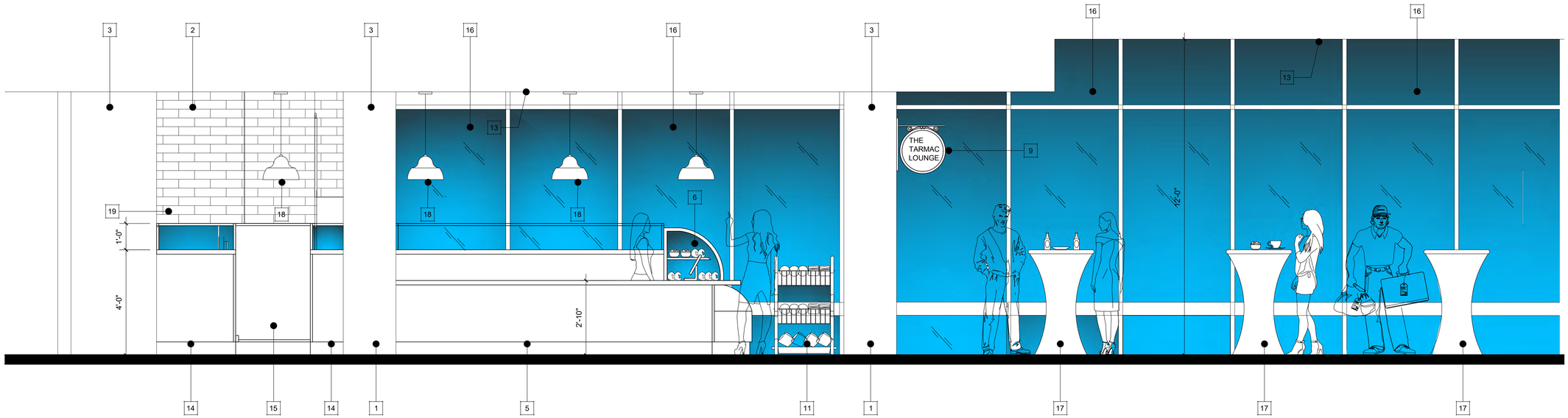
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236 W. ORANGE SHOW RD.
SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263

REGISTERED PROFESSIONAL ENGINEER HECTOR M. MORENO No. C 66015 EXP. 06/30/24 CIVIL STATE OF CALIFORNIA

HECTOR M. MORENO R.C.E.
EXP. 06/30/24
DATE: 01-05-23

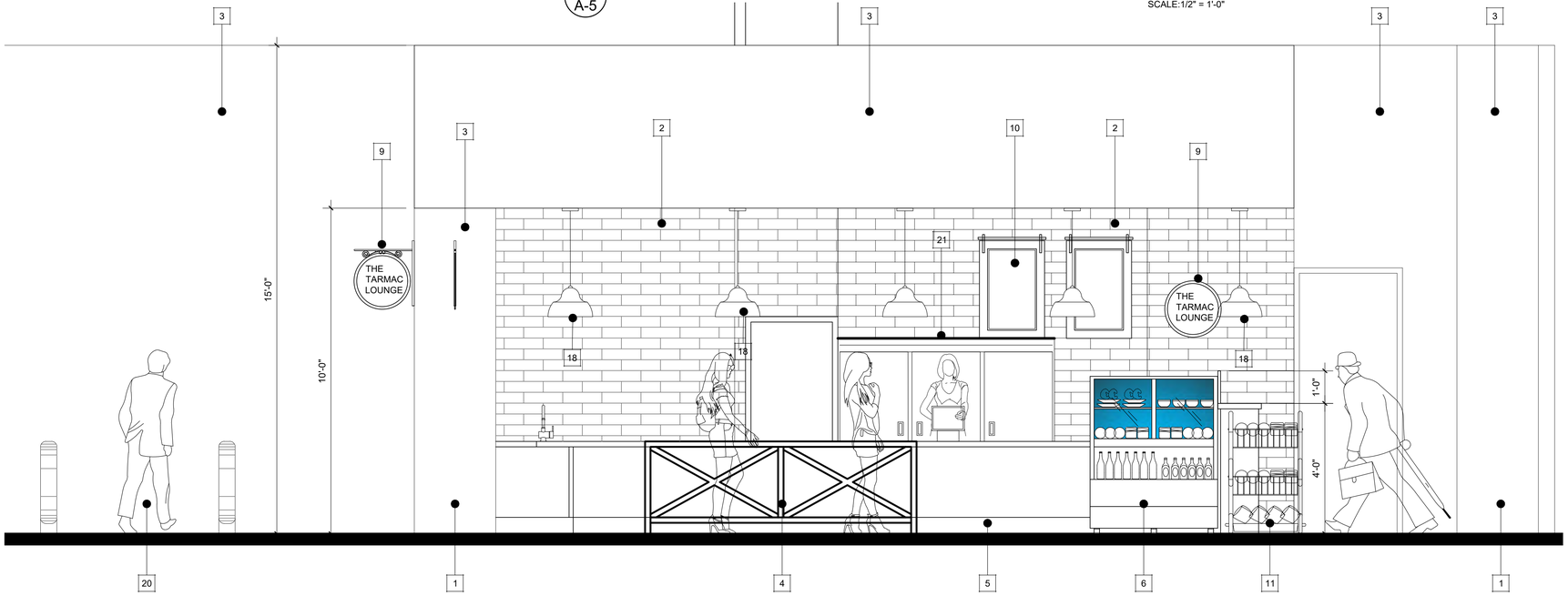
SHEET NO:
A-2.4

reference:



1 A-5 **LEFT ELEVATION-CAFE LOUNGE**

SCALE:1/2" = 1'-0"



2 A-5 **FRONT ELEVATION-CAFE LOUNGE**

SCALE:1/2" = 1'-0"

NUMBERED KEY NOTES

1. EXISTING COLUMNS TO PROTECT IN PLACE
2. NEW WHITE CERAMIC TILE
3. EXISTING SMOOTH STUCCO FINISH , SHERWIN WILLIAMS WHITE SNOW SW9541
4. NEW 34" HIGH DECORATIVE METAL RAILING
5. NEW 34" HIGH COUNTER
6. NEW DUAL SERVICE REFRIGERATED AIR CURTAIN MERCHANDISER
7. NEW STAINLESS STEEL DOUBLE COFFEE BREW MACHINE
8. EXISTING SUSPENDED CEILING PANELS
9. NEW COFFEE SHOP LOGO
10. NEW WOOD BOARD MENU
11. NEW TRIPLE BASKET DISPLAY RACK
12. EXISTING WALL TO PROTECT IN PLACE
13. EXISTING CEILING WATER RESISTANT DRYWALL WITH ENAMEL PAINT
14. NEW 48" HIGH PONY WALL AND 12" HIGH TEMPERED GLASS (TOTAL HIGH 60" INCHES) WITH CERAMIC TILE ONE SIDE (INSIDE STAND) AND LAMINATE AS FORMICA IN THE OTHER SIDE (EXTERIOR AREA)
15. NEW 3'-0"X 3'-6" SALOON DOOR
16. EXISTING FIXED WINDOWS TO PROTECT IN PLACE
17. NEW STANDING TABLE
18. NEW LED BLACK PENDING LAMP
19. NOT IN USE
20. EXISTING ELECTRIC STAIRS
21. NEW EVEREST 3 DOOR REFRIGERATOR , STAINLESS STEEL, MODEL NUMBER EBRF3.

AEC moreno CORPORATION
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SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.aecmoreno.com

NEW CAFE LOUNGE FOR SAN BERNARDINO TERMINAL AIRPORT

CAFE LOUNGE 2ND STORY ELEVATIONS

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	APPROVED BY	DATE
1	HEALTH DEPARTMENT REVISION #1 (1/17/2023), AIRPORT REVISION #1 (1/18/2023)	TB		1/18/23
2	REVISION #2 (12/08/2022)	MD		12/08/22

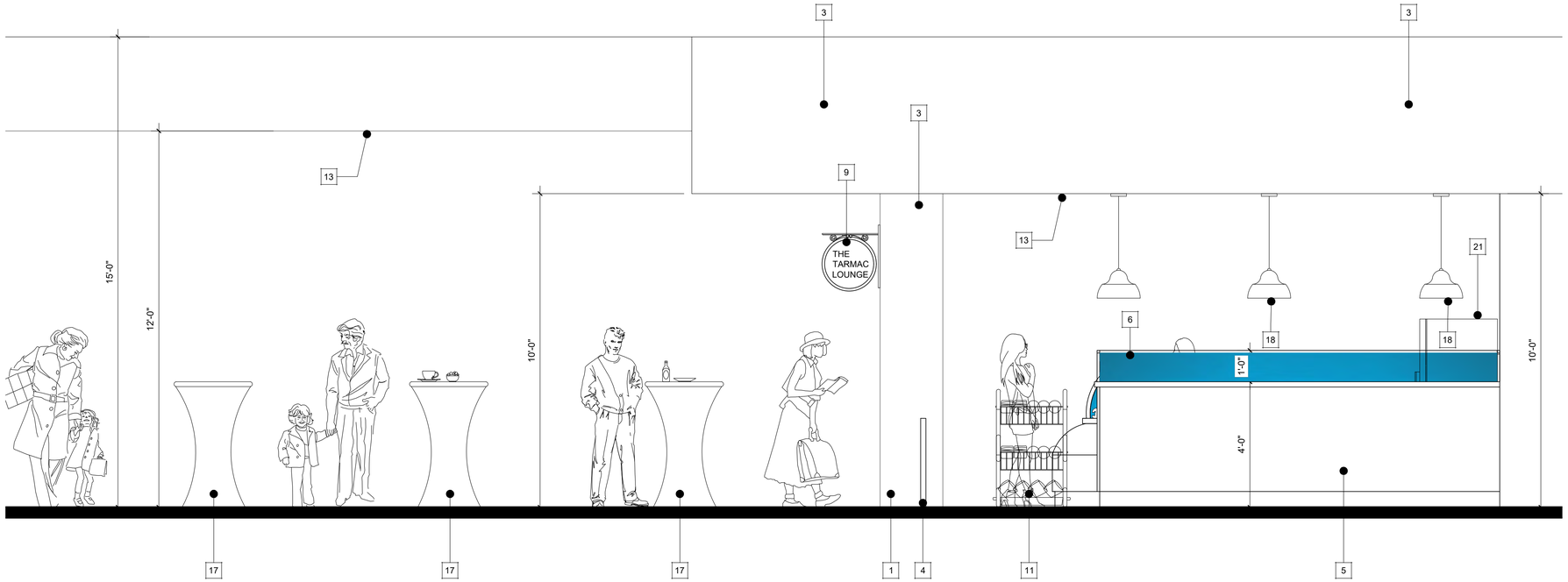
AEC | Moreno Corp.
236 W. ORANGE SHOW RD.
SUITE 112
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Office: (909) 440-2855
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REGISTERED PROFESSIONAL ENGINEER
HECTOR M. MORENO
No. C 66015
EXP. 06/30/24
STATE OF CALIFORNIA
CIVIL

HECTOR M. MORENO R.C.E.
EXP. 06/30/24
DATE: 01-05-23

SHEET NO: A-3

reference:



NUMBERED KEY NOTES

1	EXISTING COLUMNS TO PROTECT IN PLACE
2	NEW WHITE CERAMIC TILE
3	EXISTING SMOOTH STUCCO FINISH , SHERWIN WILLIAMS WHITE SNOW SW9541
4	NEW 34" HIGH DECORATIVE METAL RAILING
5	NEW TWO LEVELS COUNTER TOP, 36" HIGH LOWER COUNTER, AND 48" HIGH TOP COUNTER WITH 12" HIGH TEMPERED GLASS ON TOP(TOTAL HIGH 60" INCHES)
6	NEW DUAL SERVICE REFRIGERATED AIR CURTAIN MERCHANDISER
7	NEW STAINLESS STEEL DOUBLE COFFEE BREW MACHINE
8	EXISTING SUSPENDED CEILING PANELS
9	NEW COFFEE SHOP LOGO
10	NEW WOOD BOARD MENU
11	NEW TRIPLE BASKET DISPLAY RACK
12	EXISTING WALL TO PROTECT IN PLACE
13	EXISTING CEILING WATER RESISTANT DRYWALL WITH ENAMEL PAINT
14	NEW 48" HIGH PONY WALL AND 12" HIGH TEMPERED GLASS (TOTAL HIGH 60" INCHES) WITH CERAMIC TILE ONE SIDE (INSIDE STAND) AND LAMINATE AS FORMICA IN THE OTHER SIDE (EXTERIOR AREA)
15	NEW 3'-0"X 3'-6" SALOON DOOR
16	EXISTING FIXED WINDOWS TO PROTECT IN PLACE
17	NEW STANDING TABLE
18	NEW LED BLACK PENDING LAMP
19	NEW WESTLAKE REFRIGERATOR MODEL # WKR-23B (REFRIGERATOR), WKF-23B (FREEZER)
20	EXISTING ELECTRIC STAIRS
21	NEW EVEREST 3 DOOR REFRIGERATOR , STAINLESS STEEL, MODEL NUMBER EBRF3.

3 / A-5

RIGHT ELEVATION-CAFE LOUNGE

SCALE:1/2" = 1'-0"

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NEW CAFE LOUNGE FOR SAN BERNARDINO TERMINAL AIRPORT

CAFE LOUNGE 2ND STORY ELEVATIONS

APPLICANT / DEVELOPER:
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294 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTON WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVIED BY	APPROVED BY	DATE
1	HEALTH DEPARTMENT REVISION #1 (11/30/2022)	TB		11/16/22
2	HEALTH DEPARTMENT REVISION #2 (12/09/2022)	MD		12/09/22

AEC | Moreno Corp.
236 W. ORANGE SHOW RD.
SUITE 112
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Fax: (909) 533-2263

REGISTERED PROFESSIONAL ENGINEER
HECTOR M. MORENO
No. C 66015
EXP. 06/30/24
CIVIL
STATE OF CALIFORNIA

HECTOR M. MORENO R.C.E.
EXP. 06/30/24
DATE: 01-05-23

SHEET NO: A-4

reference:

1. PROVIDE ALL MATERIALS AND LABOR AS REQUIRED TO ACHIEVE A COMPLETE AND OPERATING SYSTEM.

2. COORDINATE AND OBTAIN APPROVALS FROM ALL RESPECTIVE UTILITY COMPANIES AS REQUIRED FOR A COMPLETE AND OPERATING INSTALLATION.

3. INSTALL RACEWAY SYSTEMS AS FOLLOWS:
   a. USE ELECTRIC METALLIC TUBE CONDUIT IN ALL AREAS PROTECTED ABOVE CEILING OR IN WALLS.
   b. USE RIGID GALVANIZED STEEL IN ALL AREAS EXPOSED TO WEATHER OR PHYSICAL DAMAGE,
   c. USE FLEXIBLE METALLIC CONDUIT ONLY IN AREAS AS PERMITTED BY LOCAL CODE AUTHORITY, USE SEAL-TITE IN AREAS EXPOSED TO WEATHER.
   d. USE COMPRESSION TYPE FITTINGS FOR ELECTRICAL METALLIC TUBING WHERE UTILIZED.
   e. USE P.V.C. CONDUIT UNDERGROUND WITH CODE SIZED GROUND.
      CONDUIT RISERS AND STUBS ABOVE GRADE SHALL BE I.M.C. WITH HALF-LAPPED TAPE COVERING OR P.V.C. COATING.
   f. THE USE OF ROMEX OR BX IS NOT PERMITTED.

4. ALL NEW WIRING SHALL BE COPPER TYPE "THHN/THWN" - U.O.N..

5. ALL CEILING MOUNTED ELECTRICAL DEVICES AND/OR EQUIPMENT SHALL BE SUPPORTED FROM THE CEILING GRID, NOT FROM CEILING TILE.

6. ALL FIXTURE, DEVICE, ETC... LOCATIONS SHALL BE VERIFIED WITH ARCH. DRAWINGS AS WELL AS EQUIPMENT SUPPLIER REQUIREMENTS PRIOR TO ANY ROUGH-IN WORK.

7. ALL LIGHTING FIXTURES SHALL BE MOUNTED AND SUPPORTED IN ACCORDANCE WITH OSHA STANDARDS,
THE 2019 CALIFORNIA ELECTRICAL CODE, AND THE CALIFORNIA ENERGY CODE.

8. CONTRACTOR SHALL PROVIDE LIGHTING FIXTURE MOUNTING KITS AS REQUIRED TO SUIT THE EXACT TYPE OF CEILING TO WHICH THEY ARE MOUNTED.

9. THESE DRAWING ARE DIAGRAMMATIC AND REPRESENT THE INTENT OF EQUIPMENT, DEVICES, ETC... TO BE CONNECTED AND THE CIRCUITS TO WHICH THEY ARE TO BE CONNECTED TO. CONTRACTOR SHALL INSTALL ALL CONDUIT, J-BOXES, ETC... AS REQUIRED FOR A COMPLETE AND OPERATING SYSTEM.

10. ALL EXTERIOR EQUIPMENT SHALL BE WEATHERPROOF.

11. ALL WORK SHALL COMPLY WITH THE 2019 CALIFORNIA ELECTRICAL CODE AND THE 2019 CALIFORNIA ENERGY CODE.

12. ALL EQUIPMENT SHALL BE NEW AND BEAR A "UL" LABEL - U.O.N..

13. CONTRACTOR SHALL SECURE AND PAY FOR ALL NECESSARY BUILDING PERMITS.

14. COMPLETE ELECTRICAL INSTALLATION SHALL BE GUARANTEED IN WRITING FOR A PERIOD OF (1) YEAR - U.O.N..

15. CONTRACTOR SHALL INCLUDE IN BID - COSTS FOR ALL HVAC CONTROL COMPONENTS, CONDUITS, DEVICES, ETC... AS DEEMED NECESSARY FOR A COMPLETE AND OPERATING HVAC SYSTEM. REFER TO MECHANICAL DRAWINGS, DIAGRAMS AND SPECS FOR THOSE ITEMS REQUIRED UNDER THE ELECTRICAL SECTION OF THIS CONTRACT.

16. CONTRACTOR SHALL VISIT SITE PRIOR TO BID DATE, TO VERIFY ALL EXISTING CONDITIONS TO BE ENCOUNTERED IN THE INSTALLATION OF ALL NEW EQUIPMENT, FIXTURE DEVICES,FEEDERS, ETC... EXACT INSTALLATION METHOD AND REQUIREMENTS SHALL BE VERIFIED AND DETERMINED PRIOR TO BID DATE. CONTRACTOR SHALL IMMEDIATELY NOTIFY ELECTRICAL ENGINEER OF ANY REQUIRED MODIFICATIONS WHICH ARE NOT SHOWN ON THESE DRAWINGS. SUBMITTAL OF BID INDICATES CONTRACTOR IS COGNIZANT OF ALL JOBSITE CONDITIONS AND WORK TO BE PERFORMED.

17. ALL EQUIPMENT ELECTRICAL CHARACTERISTICS, NEMA CONFIGURATION, LOCATIONS, AND CONNECTION REQUIREMENTS SHALL BE VERIFIED PRIOR TO ANY ROUGH-IN WORK.

18. CONTRACTOR SHALL FURNISH THE FOLLOWING SHOP DRAWINGS FOR PRIOR APPROVAL:
   a. ALL SUBMITTED LIGHT FIXTURES.
   b. ALL ELECTRICAL SERVICE EQUIPMENT, DISTRIBUTION EQUIPMENT AND PANELBOARDS.
   c. OTHER ITEMS AS SPECIFICALLY INDICATED.

19. COMPLETE ELECTRICAL SYSTEM SHALL BE GROUNDED IN ACCORDANCE WITH THE PRESENTLY ADOPTED EDITION OF THE CALIFORNIA ELECTRICAL CODE (CEC).

20. PENETRATIONS OF ALL FIRE RATED WALLS OR CEILINGS SHALL BE FIRE RATED IN ACCORDANCE WITH ALL LOCAL AND NATIONAL CODES.

21. PROVIDE RIVETED ON ENGRAVED PLASTIC NAMEPLATES (BLACK WITH WHITE LETTERS) FOR ALL MAJOR ELECTRICAL EQUIPMENT.

22. PROVIDE THE OWNER WITH ONE SET OF ELECTRICAL "AS-BUILTS" AT THE COMPLETION OF THE JOB.

23. ALL DEVICES MOUNTED BACK TO BACK ON THE FIRE RATED WALL SHALL BE MOUNTED WITH 24" MINIMUM HORIZONTAL OFFSET.

24. THE EXISTING CONDITIONS SHOWN ARE FROM AVAILABLE RECORD DRAWINGS AND SHOWN FOR REFERENCE ONLY. CONTRACTOR SHALL VERIFY ACTUAL EXISTING CONDITIONS AT SITE PRIOR TO SUBMITTING BID. ALL DEMOLITION, ALTERATION, EXTENSION, RELOCATION, REHABILITATION WORK SHALL BE INCLUDED IN CONTRACT. NO ADDITIONAL ALLOWANCE OR CHANGE ORDERS WILL BE ACCEPTED.

25. CONTRACTOR IS RESPONSIBLE TO RELOCATE OR REMOVE FROM WALLS, CEILINGS, FLOOR SPACES, ETC. ANY EXISTING CONDUITS, WIRES, BOXES, FITTINGS, FIXTURES OR OTHER ELECTRICAL EQUIPMENT WHICH INTERFERES WITH TENANT IMPROVEMENT WORK. PROVIDE CIRCUIT CONTINUATION REQUIRED FOR ALL EXISTING OUTLETS, FIXTURES, EQUIPMENT, ETC. SCHEDULED TO REMAIN.

26. LOCATION OF OUTLET SHOWN IS APPROXIMATE ONLY AND OUTLET MAY BE MOVED TO SUIT EQUIPMENT LAYOUT. COORDINATE WITH ARCHITECT AND/OR TENANT REPRESENTATIVES FOR EXACT LOCATION.

27. PANELBOARDS SHALL BE PROVIDED WITH TYPEWRITTEN PANEL SCHEDULE MOUNTED INSIDE EACH PANEL AND ENGRAVED PRIMARY/SECONDARY PANEL LABELS FROM SWITCHBOARD.

28. VERIFY ALL DISCONNECT SWITCHES, FUSE SIZES AND TYPES WITH MECHANICAL EQUIPMENT MANUFACTURER PRIOR TO INSTALLATION.

29. A SEPARATE GROUNDING CONDUCTOR SHALL BE RUN IN ALL NON METALLIC CONDUIT RUNS.

30. ALL ELECTRICAL DEVICES SHOWN WITH (E) ARE EXISTING TO REMAIN AND (N) ARE NEW.

31. THE UNGROUNDED AND GROUNDED CONDUCTORS OF EACH MULTI-WIRE BRANCH CIRCUIT SHALL BE GROUPED BY WIRE TIES OR SIMILAR MEANS IN AT LEAST ONE LOCATION WITHIN THE PANELBOARD OR OTHER POINT OF ORIGINATION. PROVIDE APPROVED HANDLE TIE AT CIRCUIT BREAKER AS REQUIRED.

32. ELECTRICAL RECEPTACLE OUTLETS AND SWITCHES, INCLUDING COMMUNICATION SYSTEM RECEPTACLES, SHALL BE LOCATED NOT LESS THAN 15" MEASURED TO THE BOTTOM OF THE BOX OR MORE THAN 48" MEASURED TO THE TOP OF THE BOX A.F.F.

33. PROVIDE GROUND CONDUCTOR IN ALL FEEDER AND BRANCH CIRCUITS, SIZED PER CODE, UNLESS OTHERWISE INDICATED.

34. ALL PANELS, SWITCHES, ETC. SHALL HAVE SUFFICIENT GUTTER SPACE AND LUGS TO ACCOMMODATE CONDUCTORS SHOWN. ALL PANELBOARDS SHALL BE EQUIPPED WITH BOLT-ON CIRCUIT BREAKERS PER PANEL SCHEDULE.

35. ELECTRICAL EQUIPMENT AND MATERIALS SHALL BE FASTENED TO STRUCTURE SO AS TO RESIST MOVEMENT DUE TO SEISMIC FORCES. REQUIREMENTS SHALL BE AS SPECIFIED BY THE STATE OF CALIFORNIA AND LOCAL CODES AND ORDINANCES.

36. THE FEEDER LENGTHS SHOWN ON DRAWINGS ARE AN APPROXIMATE FOR VOLTAGE DROP CALCULATIONS. CONTRACTOR SHALL FIELD-VERIFY THE EXTENT OF THE WORK UNDER WHICH HE WILL BE OBLIGATED TO OPERATE IN PERFORMING HIS CONTRACT.

37. WINSTON ENGINEERING INC DOES NOT DETERMINE THE MAKE OR MODEL OF ANY EQUIPMENT U.O.N.

FIRE LIFE SAFETY NOTES

UNDER DESIGN/BUILD FIRE/LIFE SAFETY CONTRACTOR SHALL INVESTIGATE THE EXTENT OF REQUIRED SCOPE OF WORK WITH FIRE MARSHAL AND OTHER AUTHORITIES HAVING PLAN CHECK AND INSPECTION AUTHORITIES AND PROVIDE AND SUBMIT FIRE/LIFE SAFETY (FIRE ALARM SYSTEM) CONSTRUCTION DOCUMENTS TO AHJ. APPROVAL SHALL BE OBTAINED PRIOR TO THE INSTALLATION OF THE SYSTEM.

CONTRACTOR SHALL PROVIDE AS PART OF FIRE ALARM SYSTEM:

* CONSTRUCTION DOCUMENT AND SHOP DRAWINGS, EQUIPMENT LIST WITH CSFM LISTING NUMBERS.

* SYSTEM SHALL BE PEER TO PEER NETWORK CAPABLE AND MICROPROCESSOR BASED.

* COORDINATE WITH MECHANICAL, PLUMBING AND FIRE PROTECTION SYSTEM DRAWINGS FOR ALL REQUIRED FIRE ALARM DEVICES UNDER MECHANICAL, PLUMBING & FIRE PROTECTION AND PROVIDE INTERCONNECTING WIRING FOR A COMPLETE WORKING SYSTEM.

3PL	THIRD PARTY LOGISTICS
AC	AIR CONDITIONING
ACC	ACCESSIBLE
ACT	ACOUSTICAL CEILING TILE
ADJ	ADJUSTABLE
AFF	ABOVE FINISHED FLOOR
AHJ	AUTHORITIES HAVING JURISDICTION
AMP	AMPERE
AOR	ARCHITECT OF RECORD
APPROX	APPROXIMATE
BOH	BACK OF HOUSE
BLDG	BUILDING
CAB	CABINET
CKT	CIRCUIT
CL	CENTER LINE
CLG	CEILING
CLR	CLEAR OR CLEARANCE
COL	COLUMN
COMP	COMPARTMENT
CONST	CONSTRUCTION
CONT	CONTINUOUS
CTR	CENTER
CW	COLD WATER
CWF	COLD WATER FILTERED
CX	COMMISSIONING
CXA	COMMISSIONING AGENT
DEG	DEGREES
DET	DETAIL
DIA	DIAMETER
DISP	DISPENSER
DIM	DIMENSION
DM	DESIGN MANAGER
DN	DOWN
DWG(S)	DRAWING(S)
EA	EACH
EC	ELECTRICAL CONTRACTOR
EG	EXHAUST GRILLE
EL	ELEVATION
ELEC	ELECTRICAL
EM	EMERGENCY
EQ	EQUAL
EQUIP	EQUIPMENT
EXIST OR (E)	EXISTING
EXP	EXPOSED
EXT	EXTERIOR
FC	FIXTURE CONTRACTOR/INSTALLER
FCO	FLOOR CLEANOUT
FD	FLOOR DRAIN
FF&E	FURNITURE, FIXTURE AND EQUIPMENT
F&I	FURNISH AND INSTALL
FIN	FINISH
FLR	FLOOR
FOH	FRONT OF HOUSE
FRP	FIBERGLAS REINFORCED PANEL
FS	FLOOR SINK
FT	FOOT OR FEET
GC	GENERAL CONTRACTOR
GFCI	GROUND FAULT CIRCUIT INTERRUPTER
GND	GROUND
HC	HOLLOW CORE
HDW	HARDWARE
HM	HOLLOW METAL
HORIZ	HORIZONTAL
HR	HOUR
HS	HAND SINK
HT	HEIGHT
HVAC	HEATING, VENTILATING AND AIR CONDITIONING
HW	HOT WATER
ID	INSIDE DIAMETER
LC	LICENSEE
LL	LANDLORD
LV	LOW VOLTAGE
MAX	MAXIMUM
MC	MECHANICAL CONTRACTOR
MECH	MECHANICAL
MEP	MECHANICAL, ELECTRICAL AND PLUMBING
MFR	MANUFACTURER
MIN	MINIMUM
MS	MOP SINK
NIC	NOT IN CONTRACT
NTS	NOT TO SCALE
OA	OVER ALL
OC	ON CENTER
OD	OUTSIDE DIAMETER
PC	PHOTOCELL
PD	PRODUCTION DESIGNER
PDM	PROJECT DEVELOPMENT MANAGER
PLAM	PLASTIC LAMINATE
POS	POINT OF SALE
R	RADIUS
REF	REFERENCE
REQ('D)	REQUIRE(D)
REV	REVISION
RG	RETURN GRILLE
RND	ROUND
RT	ROOF TOP
SC	SOLID CORE
SF	SQUARE FEET
SHT	SHEET
SIM	SIMILAR
SPEC	SPECIFICATION
SQ	SQUARE
SST	STAINLESS STEEL
SUSP	SUSPENDED
TEL	TELEPHONE
TEMP	TEMPORARY
TW	TEMPERED WATER
TYP	TYPICAL
UC	UNDERCOUNTER
UON	UNLESS OTHERWISE NOTED
VD	VENDOR DIRECT
VERT	VERTICAL
VIF	VERIFY IN FIELD
W	SANITARY WASTE
WH	WATER HEATER
WP	WEATHER PROOF
WCO	WALL CLEANOUT

POWER OUTLETS

FLOOR	WALL	CEILING	
			DUPLEX - NON CONTROL
			QUADRUPLEX- NON CONTROL
			DUPLEX-VOICE-DATA
			GFCI DUPLEX
			SIMPLEX
	EM		EMERGENCY DUPLEX
	EM		EMERGENCY QUADRUPLEX
	EM		EMERGENCY SIMPLEX
	CTR		COUNTERTOP DUPLEX
	IG		ISOLATED GROUND DUPLEX
	CR		CONTROLLED DUPLEX RECEPTACLE
	NEMA XXX		SINGLE NEMA OUTLET
	XP		EXPLOSION PROOF DUPLEX
	XP		EXPLOSION PROOF SIMPLEX
			SPLIT WIRE
	TR		TAMPER RESISTANT
CR CR	NS		NON STANDARD - VERIFY MOUNTING HEIGHT WITH ARCHITECT CONTROLLED DUPLEX / QUAD RECEPTACLE

TELECOM

FLOOR	WALL	CEILING	
			VOICE OUTLET WITH 1"C.O.
			DATA OUTLET WITH 1"C.O.
			VOICE-DATA WITH 1"C.O.
	CR		CARD READER
	BG		EMERGENCY BREAK GLASS
	PB		PUSH BUTTON
	S	S	SPEAKER - AV

WIRING

	3/4" CONDUIT WITH 2#12 WIRES, UON. GROUND WIRE NOT SHOWN.
#	3/4" CONDUIT WITH 3#12 WIRES, UON. GROUND WIRE NOT SHOWN.
##	3/4" CONDUIT WITH 4#12 WIRES, UON. GROUND WIRE NOT SHOWN.
1LA-1,3,5 ##	CONDUIT HOMERUN TO PANEL BOARD 1LA WITH CIRCUIT 1,3,5
	CAPPED CONDUIT
	CONDUIT RUN UNDERGROUND OR UNDER THE FLOOR SLAB
	CONDUIT TURNING DOWN
	CONDUIT TURNING UP
	CONDUIT BREAK

LIGHTING

FLOOR	WALL	CEILING	
			RECESSED DOWNLIGHT
			1X4 SURFACE MOUNTED LIGHT
			2X4 SURFACE MOUNTED LIGHT
			4FT WALL MOUNTED LIGHT
	EM		1X4 EMERGENCY LIGHT
	EM		2X4 EMERGENCY LIGHT
			2X4 RECESSED LIGHT
			EXIT SIGN 1 FACE CEILING MOUNTED, U.O.N.
			EXIT SIGN 1 FACE LEFT ARROW CEILING MOUNTED, U.O.N.

SWITCHES/CONTROLS

FLOOR	WALL	CEILING	
	$T		LIGHT SWITCH - TIME OPERATED
	$		LIGHT SWITCH - SINGLE POLE
	$D		LIGHT SWITCH - DIMMABLE SINGLE POLE
	$3D		LIGHT SWITCH - DIMMABLE THREE WAY (PROVIDES CONTROL IN TWO LOCATIONS)
	$K		LIGHT SWITCH - KEY OPERATED
	$P		LIGHT SWITCH - WITH PILOT LIGHT
	$TO		SWITCH - WITH THERMAL OVERLOAD
	$LV		LIGHT SWITCH - LOW VOLTAGE
	$OSD		LIGHT SWITCH - DIMMABLE OCCUPANCY SENSOR
	D		DIMMER
	OS	OS	OCCUPANCY SENSOR
	PC		PHOTOCELL
		PP	OCCUPANCY SENSOR POWER PACK
	OR		OVERRIDE SWITCH
			ELECTRICAL PUSH BUTTON

SINGLE LINE DIAGRAM

	CIRCUIT BREAKER SWITCH
	FUSE - INLINE
	FUSE SWITCH
	FUSED-SWITCH BUS PLUG
CB	CIRCUIT BREAKER - ENCLOSED
GFR	GROUND FAULT RELAY
A	AMMETER
M	DIGITAL METER U.O.N.
	TRANSFORMER - DELTA WYE-GROUNDED
XXXXX XXXXX XXXXX XXXXX	PANEL

SHEET NO.	SHEET TITLE
E1.0	GENERAL NOTES
E2.0	LIGHTING
E2.1	PHOTOMETRICS STUDY
E2.2	PHOTOMETRICS STUDY DETAILS
E3.0	POWER PLAN
E4.0	EXISTING SINGLE LINE DIAGRAM
E4.1	PANEL SCHEDULES
E5.0	ELECTRICAL DETAILS

FIRE ALARM & SECURITY SYSTEMS: FIRE ALARMS AND SECURITY SYSTEMS ARE NOT PART OF THIS CONTRACT. DESIGN-BUILD CONTRACTOR WILL SUBMIT AS SEPARATE PERMIT FOR APPROVAL

SCOPE OF WORK

MINOR ALTERATION OF EXISTING CAFE LOUNGE IN AIRPORT.

AEC MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
OFFICE: (909) 440-2855
Fax: (909) 533-2263
www.aemoreno.com

NEW CONCESSION STAND FOR SAN BERNARDINO TERMINAL AIRPORT

CAFE LOUNGE - LEVEL 2

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	DATE
	INITIAL SUBMITTAL		12-02-2022

WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER ANTHONY WINSTON No. E-20881 ELECTRICAL STATE OF CALIFORNIA

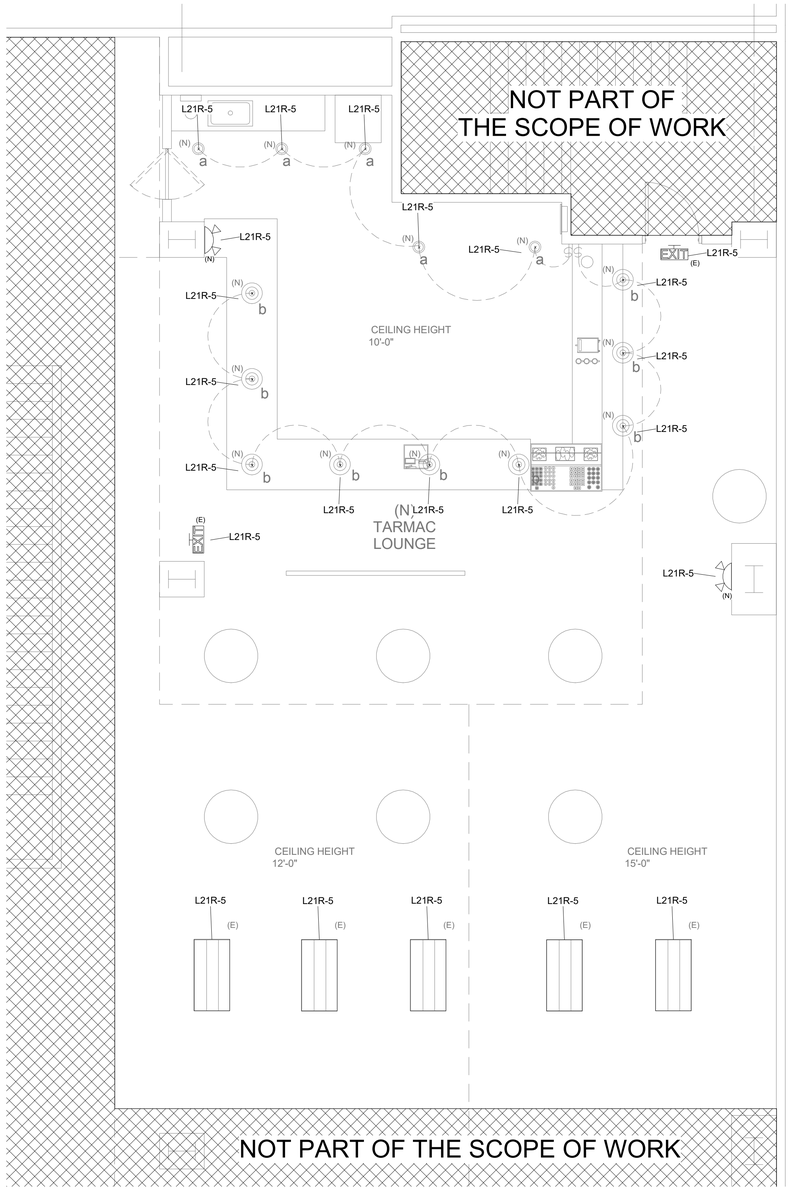
DATE: 10-27-2022

SHEET NO:
E1.0

SHEET NAME:
GENERAL NOTES

CAFE LOUNGE - LIGHTING SCHEDULE

FIXTURE SYMBOL	DESCRIPTION	VOLTAGE (V)	POWER (W)
(N) a	NEW DIRECTIONAL RECESSED LIGHTS - MANUFACTURER TBD	120V	13W
(N) b	NEW PENDNT LIGHT - MANUFACTURER TBD	120V	100W
EXIT (E)	EXISTING EXIT SIGN - MANUFACTURER TBD	120V	1.5W
(N)	NEW EMERGENCY LIGHTING - LITHONIA LIGHTING-ELM4L	120V	2.5W
(E)	EXISTING 2X4 TROFFER LIGHTS - MANUFACTURER TBD	120V	40W



2 CAFE LOUNGE - LIGHT PLAN
Scale 1/4" = 1'-0"

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	INITIAL SUBMITTAL			12-02-2022

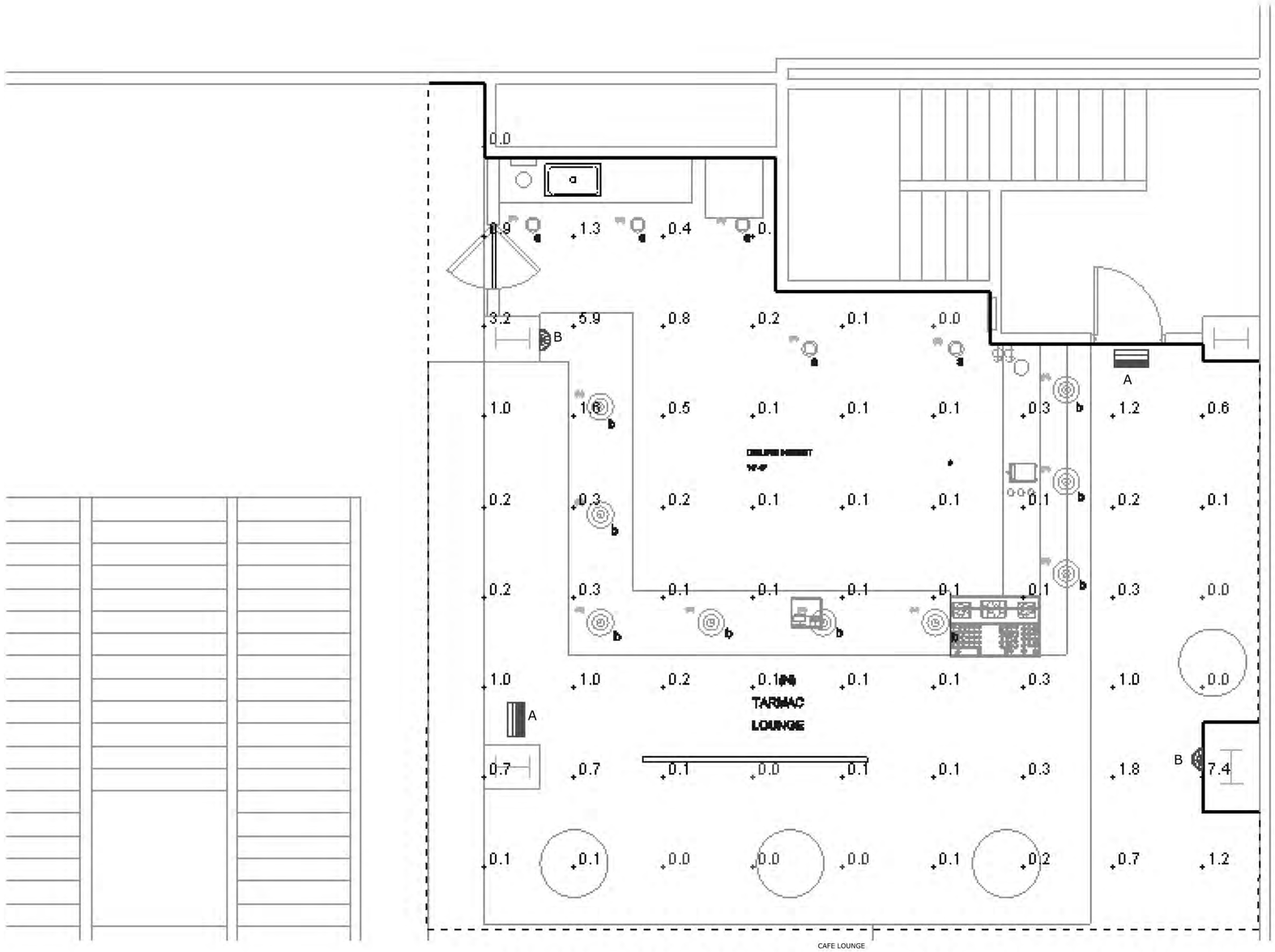
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REGISTERED PROFESSIONAL ENGINEER
ANTHONY WINSTON
No. E-20881
ELECTRICAL
STATE OF CALIFORNIA

DATE: 10-27-2022

SHEET NO:
E2.0

SHEET NAME:
LIGHTING



Schedule

Symbol	Label	Image	QTY	Manufacturer	Catalog Number	Description	Lamp	Number Lamps	Filename	Lumens per Lamp	Lumen Multiplier	LLF	Wattage	Efficiency	Distribution	Polar Plot	Notes
	A		3	Lithonia Lighting	LHQM LED	QUANTUM LED EMERGENCY COMBO (ONE HEAD ONLY)		1	LHQM_LED.ies	Absolute	1	1	1.5	100%	DIRECT, SC-0=0.43, SC-90=0.5		WITH 90 MIN BACKUP BATTERY
	B		3	Lithonia Lighting	ELM4L	ELM4L SP640L		1	ELM4L.ies	345	1	1	2.5	100%	DIRECT, SC-0=0.53, SC-90=0.52		WITH 90 MIN BACKUP BATTERY

Statistics

Description	Symbol	Avg	Max	Min	Max/Min	Avg/Min
CAFE LOUNGE	+	0.6 fc	7.4 fc	0.0 fc	N/A	N/A

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SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	APPROVED BY	DATE
	INITIAL SUBMITTAL			12-02-2022

WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-8600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER ANTHONY WINSTON No. E-20881 ELECTRICAL STATE OF CALIFORNIA

DATE: 10-27-2022

SHEET NO:
E2.1

SHEET NAME:
PHOTOMETRICS STUDY

LITHONIA LIGHTING

Catalog Number	
Notes	LIGHT A
Type	

FEATURES & SPECIFICATIONS

INTENDED USE — Suitable for applications requiring both exit sign and unit equipment. Attractive, 8" tall, streamlined design is great for above-the-door applications and other tight fits. Optional high-output version with remote lamps are ideal for emergency egress lighting. **Certain airborne contaminants can diminish integrity of acrylic and/or polycarbonate.** Click here for Acrylic-Polycarbonate Compatibility Guide for suitable uses.

CONSTRUCTION — Engineering-grade thermoplastic housing is impact-resistant, scratch-resistant and corrosion-proof. UL94V-0 flame rating. UV-stable resin resists discoloration from natural and man-made light sources.

Rugged unibody housing snaps together with no additional fasteners. Faceplate and back cover are interchangeable on housing. Positive snap-fit tabs hold faceplate securely, yet are easily removable for lamp compartment access. Universal, directional chevrons inverts are easily removed and reinverted.

Uniform graphics illumination without shadows or hot spots. Letters are 6" high with 3/4" stroke, with 100 ft. viewing distance rating based upon UL924 standard.

LEDs mounted on primary circuit boards for ease of maintenance. Low-energy LED lamp in sign operates in normal (AC input) and emergency (DC input) modes.

Low-profile, integrated test switch/pilot light. Easily viewed bright red states indicator.

Unique track-and-swivel arrangement permits full range of direction of lamp head adjustment. Universal J-box mounting pattern. Two ¾-in. access for maintenance. Conduit entry position on top of unit.

U.S. Patent No. 6,848,798; 6,499,866; 6,142,648; 5,797,673; D379,373; 5,526,251; D484,272; D477,672; 5,611,163; 5,446,502.

OPTICS — Twin LED lamp heads operate in emergency (DC input) mode with 12 series-parallel white LEDs in each head. Provides redundant light sources to ensure emergency lighting performance. The typical life of the unit LED lamp is 10 years.

ELECTRICAL — Dual-voltage input capability (120/277V). Edge connector on printed circuit board ensures long-term durability.

Current-limiting charger maximizes battery life and minimizes energy consumption. Provides low operating costs.

Short-circuit protection — current-limiting charger circuitry protects printed circuit board from shorts.

Thermal compensation adjusts charger output to provide optimum charge voltage relative to ambient temperature.

Regulated charger voltage maintains constant-charge voltage over a wide range of line voltages. Prevents over/undercharging that shortens battery life and reduces capacity.

Filtered charger input minimizes charge voltage ripple and extends battery life.

AC/DC reset allows battery connection before AC power is applied and prevents battery damage from deep discharge.

Single multi-color LED indicator is display two-state charging, test activation and three-state diagnostic test. Test switch provides manual activation of 30-second diagnostic testing for on-demand visual inspection. Self-diagnostic testing for 30 seconds every 30 days, 30 minutes at 180-day interval, and 90 minutes annually. Diagnostic evaluation of LED light source, AC-to-DC transfer, charging and battery condition.

Battery: Sealed, maintenance-free nickel-cadmium battery delivers 90-minute capacity to emergency lamps. Two-state constant-current charge maximizes battery life and automatically recharges after battery discharge. Low-voltage disconnect prevents excessively deep discharge that can permanently damage the battery. Optional high-output battery to power both local and optional LED remote lamp heads simultaneously.

INSTALLATION — Universal mounting canopy for top-and-end mount. Back mount standard for single face only. Housing snaps to canopy with positive-locking tabs. Can locking pin secures housing to canopy.

Easily-removed mounting knockouts. Conduit entry knockout for 1/2" flexible conduit. 3-box pattern on back panel.

Catalog Number

Notes

Type

LITHONIA LIGHTING

QUANTUM® Thermoplastic Exits

LHQM LED

LED Lamp Head
Nickel-Cadmium Battery

HO RO

LISTINGS — UL damp location listed standard 50°-104°F (10°-40°C). Meets UL 924, NFPA 101 (current Life Safety Code), NEC and OSHA illumination standards. Meets all applicable FCC Title 47, Part 15, Subpart B requirements.

BUY AMERICAN — Product with the BAA option is assembled in the USA and meets the Buy American government procurement requirements under FAR, DFARS and DOT. Please refer to www.acuitybrands.com/buy-american for additional information.

WARRANTY — 5-year limited warranty. (Battery is prorated). This is the only warranty provided and no other statements in this specification sheet create any warranty of any kind. All other express and implied warranties are disclaimed. Complete warranty terms located at www.acuitybrands.com/support/warranty/terms-and-conditions

Note: Actual performance may differ as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25°C.
Specifications subject to change without notice.

† Unit Signs Certified in the CA Title 20 Appliance Efficiency Database.

Looking for Controller Select-readily available configurations? Click here to visit Contractor Select™ spec sheets at gls.eu.www.mediaclassifieds.com

ORDERING INFORMATION Lead times will vary depending on options selected. Consult with your sales representative. **Example:** LHQM LED G

LHQM	LED								
Family	**Lamp type**		**Housing color**		**Letter color**		**Options**		
LHQM Stencil face, single face plate with extra face plate	LED	Two 1.5W/9.6V white LED	(blank)	White	R	Red	HO	High-output Ni-cad [1]	NOM	Meets Mexican standards [2]
			B	Black	G	Green	HO RO	High-output option, less lamp heads	NOM SALIDA	Salida signage (non-UL) [2]
							SD	Self-diagnostics	BAA	Buy Americain Act Compliant

Notes:
1 When operating ELMWM † (LHMR) T or LHL SQ † remotes off of HO battery, temperature range of LHQM LED is limited to 60°-104°F (20°-40°C), with a 48-hour battery recharge time.
2 Only available in HO or HO RO options. Not available with SD battery for options.
3 Only available in white. NOM standard.
4 Only compatible with self-diagnostic option, (on) HO SD)
5 Only compatible with HO or HO RO with SD option. See spec sheet ELA-Q-LED.
6 Only available with HO or HO RO option. Not available with SD option. See spec sheet ELEMWM or LLEMS for more information and other color options. See page 2 for product images. When operating ELMWM † or ELMRE † remotes off of HO battery, temperature range of LHQM LED is limited to 60°-104°F (20°-40°C), with a 48-hour battery recharge time.
7 See spec sheet ELA-WG.
8 See spec sheet ELA-Series.
9 When operating ELMWM † or ELMRE † remotes off of HO battery, temperature range of LHQM LED is limited to 60°-104°F (20°-40°C), with a 48-hour battery recharge time.
10 Not available with SD. Only compatible with HO or HO RO option. When operating ERE SQ † remotes off of HO battery, temperature range of LHQM LED is limited to 60°-104°F (20°-40°C), with a 48-hour battery recharge time.

LHQM LED QUANTUM® Exit/Unit Combo

Accessories: *Order as separate catalog number.*			
ELA SD CLEO309	Single, LED indoor remote head, white, self-diagnostics, 9.6V [4,5]	ELA WG3	Wiregaard, 30" W x 13-1/2" H x 6" D [7]
ELA T SD CLEO309	Twin, LED indoor remote head, white, self-diagnostics, 9.6V [4,5]	ELA LQMS512	12" white stem kit [7]
ELA SD QWP LE009	Single, LED weather-proof remote head, gray, self-diagnostics, 9.6V [4,5]	ERE W SGL SQ M12	Single, LED indoor remote head, square, ivory white, .75W, 3.6V-12V voltage sensing [7,9]
ELA T SD QWP LE009	Twin, LED weather-proof remote head, gray, self-diagnostics, 9.6V [4,5]	ERE W T SQ M12	Twin, LED indoor remote head, square, ivory white, 1.5W, 3.6V-12V voltage sensing [7,9]
ELA B T SD QWP LE009	Twin, LED weather-proof remote head, black, self-diagnostics, 9.6V [4,5]	ERE GY SGL WP SQ M12	Single, LED weather-proof remote head, square, gray, 1W, 3.6V-12V voltage sensing [9]
ELMWM LP2200, DWNHO SGL	Single LED Wet Location remote head, white, 1.2W, 190 lumens [6]		
ELMRE LP2300, SGL	Single LED indoor remote head, white, 1.2W, 150 lumens [6]	ERE GY T WP SQ M12	Twin, LED weather-proof remote head, square, gray, 2W, 3.6V-12V voltage sensing [9]
ELMWM LP2200, DWNHO T	Twin LED Wet Location remote head, white, 1.2W, 220 lumens [6]		
ELMRE LP2205, T	Twin LED indoor remote head, white, 1.2W, 110 lumens [6]		

Indoor/Wet location ELMRE and ELMRW remotes



ELMRE LP2205, SGL

ELMRE LP2205, T



ELMRW LP2200, DOMTHO SGL

ELMRW LP2200, DOMTHO T

Remotes Compatability Matrix								
LHQM LED Catalog	**Non-SD Indoor**		**Non-SD Outdoor**		**SD Indoor**		**SD Outdoor**	
	SINGLE	TWIN	SINGLE	TWIN	SINGLE	TWIN	SINGLE	TWIN
LHQM LED HO	ELMRE LP2205, SGL*	ELMRE LP2205, T*	ELMRW LP2200, SGL*	ELMRW LP2200, T*	X	X	X	X
LHQM LED HO RO	ELMRE LP2205, SGL*	ELMRE LP2205, T*	ELMRW LP2200, SGL*	ELMRW LP2200, T*	X	X	X	X
LHQM LED HO SD	X	X	X	X	ELA SD CLEO309	ELA T SD CLEO309	ELA SD QWP LE009	ELA T SD QWP LE009
LHQM LED HO RO SD	X	X	X	X	ELA SD CLEO309	ELA T SD CLEO309	ELA SD QWP LE009	ELA T SD QWP LE009

*Available as alternate values. See spec sheet for more information. When operating twin configurations (ELMRW/ELMRE/ERE SQ) the temperature range of the LHQM LED HO is limited to 60°-104°F (20°- 40°C), with a 48-hour battery recharge time.

LHQM LED QUANTUM® Exit/Unit Combo

SPECIFICATIONS

Electrical Primary Circuit				
	Typical LED life†	Supply voltage	Max amps	Max watts
Red and green LED	10 years	120	.05	4.3
		277	.03	4.3

BATTERY

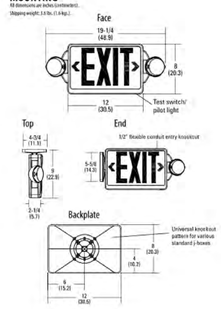
Ni-Cad				
Voltage	Typical Shelf life†	Typical life†	Maintenance†	Temperature range*
9.6	3 years	6-8 years	none	50-104°F (10-40°C)

1 Based on continuous operation.
2 At 77°F (25°C).
3 All life safety equipment, including emergency lighting, path of egress, must be maintained, serviced and tested in accordance with all National Fire Protection Association and local codes. Failure to perform the required maintenance, service or testing could jeopardize the safety of occupants and will void all warranties.
4 Temperature range where unit will provide capacity for 90 minutes. Higher and lower temperatures affect life and capacity.
5 Battery life is negatively impacted by many variables including temperature, charging rate, number of cycles and deep discharges due do long periods of time without AC power.

Remote Output Capacity			
Standard unit	Combo	Combo/high-output battery (HO)	Combo/high-output (HO) and no heads (HO)
9VA	6VA	28W	47W

MOUNTING

All dimensions are inches (centimeters).
Shipping weight: 3.0 lbs (1.4 kg).

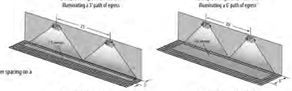


LAMP PHOTOMETRICS

QUANTUM LED SERIES – SINGLE COVERAGE
3W Total White LEDs
Using a single unit at a typical 7.5' mounting height delivers an average illuminance of 1.0 FC over a distance of 2H on a 3' path of egress and 10' on a 6' path of egress.



QUANTUM LED SERIES – MULTIPLE COVERAGE
3W Total White LEDs
Using multiple units at a typical 7.5' mounting height delivers 2X' center-to-center spacing on a 3' path of egress and 2Y' center-to-center spacing on a 6' path of egress.



EXTENDED RUN-TIME FOR HIGH-OUTPUT EXITS

Product	Run time
LHQM LED HO (no remotes)	3.6 hours
LHQM LED HO RO (no remotes)	7.5 hours

LITHONIA LIGHTING

Catalog Number	
Notes	LIGHT B
Type	

Contractor Select™

ELM4L

Quantum® Contemporary Commercial LED Emergency Light



The Lithonia Lighting® Quantum® ELM4L Emergency Light is suitable for emergency lighting applications such as stairways and hallways. Its high performance LED lamp heads makes the ELM4L ideal for safely illuminating the path of egress for applications requiring attractive LED unit equipment with quick installation and unparalleled performance for 7.5' to 24' mounting heights. It can be wall or ceiling mounted and will provide 90 minutes of emergency power in the case of power loss.

FEATURES:
- Test switch and status indicator.
- UL indoor damp location 50°F to 104°F (10°C to 40°C) listed standard.
- For use with 120-277VAC input

† Small Battery Chargers Certified in the CA Title 20 Appliance Efficiency Database.

Catalog Number	UPC	Description	Supply Voltage	Input Wattage		Input Amps		Pallet Qty
				120	277	120	277	
ELM4L	195729196287	Quantum® LED Adjustable Optics 640 lumens, 4.6W, 1 emergency Light, White housing	120-277VAC, 50/60Hz	3.3D	3.3D	0.03Σ	0.03Σ	432

Accessories: *Order as accessory catalog number.*	
ELA WG3	Wiregaard 15-1/4" W x 13-3/4" H x 6" D (Back,mount only), See spec sheet ELA-WG.
WPPS1309-W	Wire protective cantilal shield (must be used for wet location applications)

Specifications

INTENDED USE:
Provides a minimum of 90 minutes illumination for the rated wattage upon loss of AC power to meet and exceed code required emergency lighting. Ideal for applications requiring attractive LED unit equipment with quick installation and unparalleled performance for mounting heights from 7.5' TO 30'.

CONSTRUCTION:
The housing is a standard white thermoplastic with a compact and low-profile contemporary design. It is SVA flame rated, impact resistant, scratch resistant and corrosion proof. The UV-stable resin resists discoloration from natural and man-made light sources. The back plate contains a universal j-box mounting pattern to facilitate ease of installation on a wide variety of j-boxes and the front housing allows tool-less access for ease of maintenance.

OPTICS:
The typical life of the LED is 10 years. Two 3.3W LED Lamps.

ELECTRICAL:
Multi-voltage 120-277, 50/60Hz standard. Emregency unit provided with test switch, status indicator and rechargeable battery. Sealed, maintenance-free nickel-cadmium battery provides 90 minutes of emergency power.

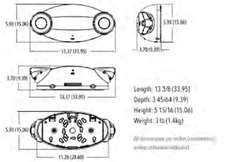
INSTALLATION:
Wall and ceiling mount. Tool-less removal of front cover from back-plate for ease of installation and maintenance.

LISTINGS:
UL damp location listed standard and wet location listed when used with the WPPS accessory, all at 50-104°F (10-40°C). Meets or exceeds all applicable requirements for UL 924, NFPA 101 (current Life Safety Code), NFPA 70 (NEC), NOM (Norma Oficial Mexicana), California Energy Commission Title 20 section 1605.3 (W)(4), FCC Title 47, Part 15, Subpart B and OSHA. List and labeled to comply with Canadian Standards C22.2 No. 141-10.

WARRANTY:
5-year limited warranty. Complete warranty terms located at:
www.acuitybrands.com/support/customer-support/terms-and-conditions

Note: Actual performance may differe as a result of end-user environment and application.
All values are design or typical values, measured under laboratory conditions at 25°C.
Specifications subject to change without notice.

Dimensions



Length: 13 3/8 (33.95)
Depth: 3 45/64 (9.39)
Height: 5 15/16 (15.06)
Weight: 3 lb (1.4kg)

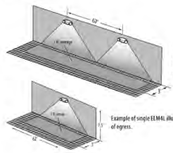
All dimensions are inches (centimeters) unless otherwise indicated.

Spacing guidelines

Maximum Spacing Guidelines — ELM4L †						
Mounting Height	**Illumination Level**	**Single Luminaire**		**Multiple Luminaire**		**Application Notes**
		3' Path of Egress	**6' Path of Egress**	**3' Path of Egress**	**6' Path of Egress**	
7.5'	1FC Avg*	62'	58'	67'	60'	150 Candlepower, 8' wide, and 52' high with 80/50/20 reflectances
10'	1FC Avg*	62'	58'	67'	60'	
13'	1FC Avg*	52'	49'	66'	58'	Partial open area: 200' X 75' X 30' with 80/50/20 reflectances
18'	1FC Avg*	52'	48'	64'	60'	
12'	1FC Avg*	52'	48	62'	59'	
16'	1FC Avg*	52'	44	61'	58'	
20'	1FC Avg*	44'	42'	60'	58'	
24'	1FC Avg*	34'	34	42'	58'	

Notes:
1 Also meets the additional illumination requirements of NFPA 101: 1FC minimum and max:min ration of 40:1.

*Note: To see complete photometric report or download the .ies file for this product, visit Lithonia Lighting ELM4L and ELM4L home page.



MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
OFFICE: (909) 440-2855
Fax: (909) 553-2263
www.aemoreno.com

NEW CONCESSION STAND FOR SAN BERNARDINO TERMINAL AIRPORT

CAFE LOUNGE - LEVEL 2

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	DATE
	INITIAL SUBMITTAL		12-05-2022

WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER ANTHONY WINSTON No. E-20881 ELECTRICAL STATE OF CALIFORNIA

DATE: 10-27-2022

SHEET NO:
E2.2

SHEET NAME:
PHOTOMETRICS STUDY DETAILS

CAFE LOUNGE

EQUIPMENT CHECKLIST

SYMBOL	ITEM #	ITEM	MANUFACTURER	MODEL NUMBER	NSF OR EQUIVALENTE, ANSI	SPECIALLY FABRICATED	GAS	ELECTRICAL	HOT WATER	COLD WATER	DIRECT WASTE	INDIRECT WASTE
10	1	COFFEE BREW MACHINE	BUNN	38700.0043	NSF			●				
12	2	AIR CURTAIN MERCHANDISER	AVANTCO	BCAC-48	NSF			●				
12	3	REFRIGERATOR	WESTLAKE	WKR-23B (FRIDGE) WKF-23B (FREEZER)	NSF			●				
9	4	3-COMPARTMENT SINK	ELKAY	SS8354L	NSF				●	●	●	
20	5	4-TIERS DRY STORAGE RACK	REGENCY	460SW1836KIT	NSF							
22	6	HAND SINK	ELKAY	EHS-14X	NSF				●	●	●	
19	7	INSTANTANEOUS WATER HEATER	CHRONOMITE	SR-20L/277 HTR-I	NSF			●	●	●	●	

NUMBERED KEY NOTES

8 EXISTING ELECTRICAL PANEL TO PROTECT IN PLACE

9 NEW THREE COMPARTMENT WARE-WASHING SINK, MANUFACTURE ELKAY, MODEL SS8354L

10 NEW STAINLESS STEEL SINGLE COFFEE BREW MACHINE

11 NEW 3'-0"X 3'-6" SALOON DOOR

12 NEW DUAL SERVICE REFRIGERATED AIR CURTAIN MERCHANDISER

13 NEW COUNTER WITH HEIGHT OF 36 INCHES

14 NEW STAINLESS STEEL NAPKIN DISPENSER

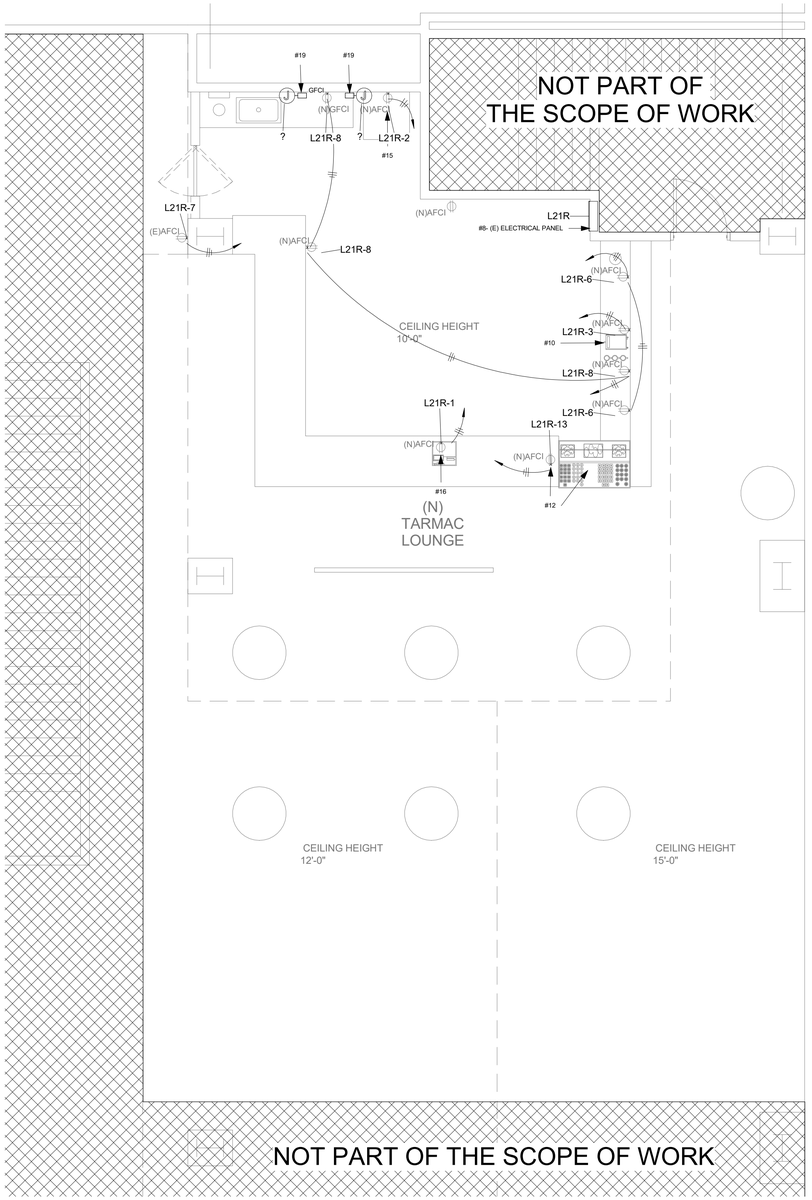
15 NEW WESTLAKE REFRIGERATOR MODEL # WKR-23B (REFRIGERATOR), WKF-23B (FREEZER)

16 NEW REGISTER MACHINE

17 CEILING HEIGHT CHANGE

18 EXISTING WINDOWS TO PROTECT IN PLACE

19 NEW INSTANTANEOUS WATER HEATER



2 CAFE LOUNGE- POWER PLAN

Scale 1/4" = 1'-0"

AEC MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
OFFICE: (909) 440-2855
Fax: (909) 533-2263
www.aemoreno.com

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CAFE LOUNGE - LEVEL 2

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	APPROVED BY	DATE
	INITIAL SUBMITTAL			12-20-2022

WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER
ANTHONY WINSTON WU
No. E-20881
ELECTRICAL
STATE OF CALIFORNIA

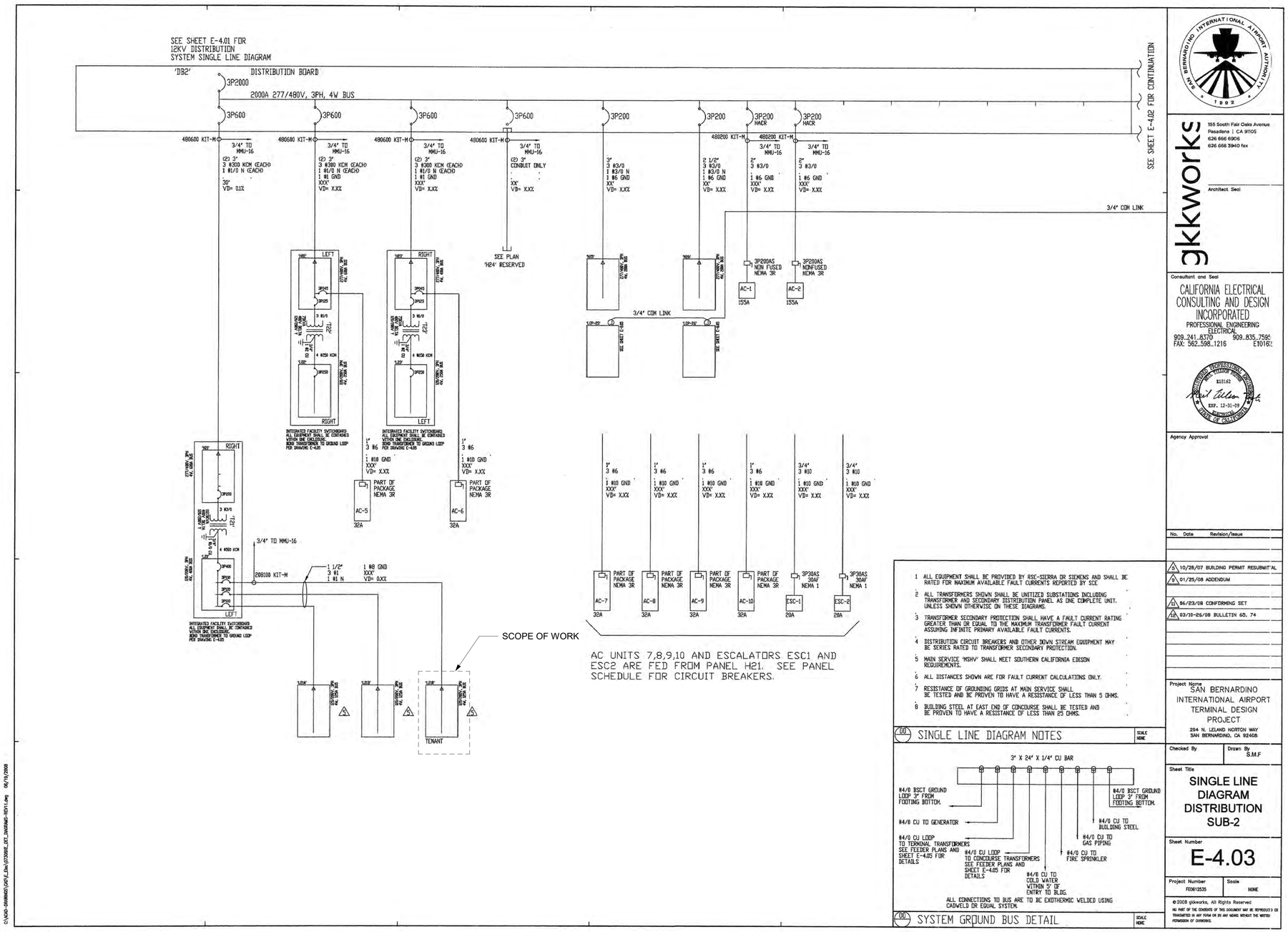
DATE: 10-27-2022

SHEET NO:
E3.0

SHEET NAME:
POWER PLAN

GENERAL NOTES

1. PANEL IS EXISTING AND IS TO REMAIN AS IS. PANEL BEING USED IS L21R. SEE EXISTING SINGLE LINE DIAGRAM ON SHEET E4.0



1. ALL EQUIPMENT SHALL BE PROVIDED BY SSC-SIEMBA OR SIEMENS AND SHALL BE RATED FOR MAXIMUM AVAILABLE FAULT CURRENTS REPORTED BY SCE.
2. ALL TRANSFORMERS SHOWN SHALL BE UNITIZED SUBSTATIONS INCLUDING TRANSFORMER AND SECONDARY DISTRIBUTION PANEL AS ONE COMPLETE UNIT. UNLESS SHOWN OTHERWISE ON THESE DIAGRAMS.
3. TRANSFORMER SECONDARY PROTECTION SHALL HAVE A FAULT CURRENT RATING GREATER THAN OR EQUAL TO THE MAXIMUM TRANSFORMER FAULT CURRENT ASSUMING INFINITE PRIMARY AVAILABLE FAULT CURRENTS.
4. DISTRIBUTION CIRCUIT BREAKERS AND OTHER DOWN STREAM EQUIPMENT MAY BE SERIES RATED TO TRANSFORMER SECONDARY PROTECTION.
5. MAIN SERVICE 'MSHV' SHALL MEET SOUTHERN CALIFORNIA EDISON REQUIREMENTS.
6. ALL DISTANCES SHOWN ARE FOR FAULT CURRENT CALCULATIONS ONLY.
7. RESISTANCE OF GROUNDING GRIDS AT MAIN SERVICE SHALL BE TESTED AND BE PROVEN TO HAVE A RESISTANCE OF LESS THAN 5 OHMS.
8. BUILDING STEEL AT EAST END OF CONCOURSE SHALL BE TESTED AND BE PROVEN TO HAVE A RESISTANCE OF LESS THAN 25 OHMS.

00 SINGLE LINE DIAGRAM NOTES — SCALE: NONE

00 SYSTEM GROUND BUS DETAIL — SCALE: NONE

C:\GKD-DRAWINGS\GKPLA_Rev\012535E_ST_SHEETS.dwg 04/15/2008

gkkworks
155 South Fair Oaks Avenue
Pasadena | CA 91105
626 666 6906
626 666 3940 fax

Architect Seal

Consultant and Seal
CALIFORNIA ELECTRICAL CONSULTING AND DESIGN INCORPORATED
PROFESSIONAL ENGINEERING
ELECTRICAL
909..241..8370 909..835..7595
FAX: 562..598..1216 E10162

Agency Approval

No.	Date	Revision/Issue
3	10/28/07	BUILDING PERMIT RESUBMITTAL
2	01/25/08	ADDENDUM
1	06/23/08	CONFORMING SET
12	03/10-26/08	BULLETIN 65, 74

Project Name
SAN BERNARDINO INTERNATIONAL AIRPORT TERMINAL DESIGN PROJECT
294 N. LELAND NORTON WAY
SAN BERNARDINO, CA 92408

Checked By | Drawn By: S.M.F

Sheet Title
SINGLE LINE DIAGRAM DISTRIBUTION SUB-2

Sheet Number
E-4.03

Project Number: FED012535 | Scale: NONE

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AEC MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
OFFICE: (909) 440-2855
Fax: (909) 533-2263
www.aemoreno.com

NEW CONCESSION STAND FOR SAN BERNARDINO TERMINAL AIRPORT

CAFE LOUNGE - LEVEL 2

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED DRAWING	APPROVED BY	DATE
	INITIAL SUBMITTAL			12-02-2022

WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER ANTHONY WINSTON No. E-20881 ELECTRICAL STATE OF CALIFORNIA

DATE: 10-27-2022

SHEET NO:
E4.0

SHEET NAME:
EXISTING SINGLE LINE DIAGRAM

Branch Panel: L21R

Location:
Supply From:
Mounting: Recessed
Enclosure: Type 1

Volts: 208/120 THREE PHASE
Phases: 3
Wires: 4

A.I.C. Rating: EXISTING
Mains Type:
Mains Rating: 200 A
MCB Rating: 200 A

Notes:

CKT	Circuit Description	Trip	Poles	A		B		C		Poles	Trip	Circuit Description	CKT
L21R-1	Receptacle - POS	20 A	1	180 VA	230 VA					1	20 A	Receptacle - EQ #15	L21R-2
L21R-3	Receptacle - EQ #10	20 A	1			1600...							L21R-4
L21R-5	Lighting - BEHIND COUNTER	20 A	1					1173...	360 VA	1	20 A	Receptacle - COUNTER B	L21R-6
L21R-7	Receptacle - BACK DOOR	20 A	1	180 VA	540 VA					1	20 A	Receptacle - COUNTER A	L21R-8
L21R-9													L21R-...
L21R-...													L21R-...
L21R-...	Receptacle - EQ #12	20 A	1	150 VA									L21R-...
L21R-...													L21R-...
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L21R-...													L21R-...
		Total Load:		1280 VA		1600 VA		1533 VA					
		Total Amps:		11 A		14 A		13 A					

Legend:

Load Classification	Connected Load	Demand Factor	Estimated Demand	Panel Totals	
Lighting	1173 VA	125.00%	1466 VA		
Receptacle	1260 VA	100.00%	1260 VA	**Total Conn. Load:**	4413 VA
General Loads	1980 VA	100.00%	1980 VA	**Total Est. Demand:**	4706 VA
				Total Conn. Current:	12 A
				Total Est. Demand Current:	13 A

Notes:

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236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
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SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

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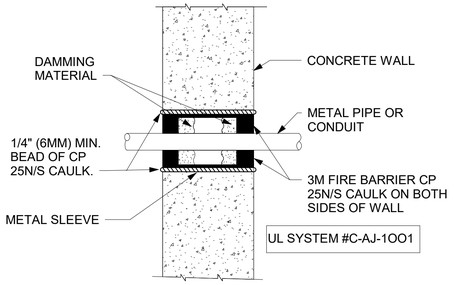
WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER
ANTHONY WINSTON
No. E-20881
ELECTRICAL
STATE OF CALIFORNIA

DATE: 10-27-2022

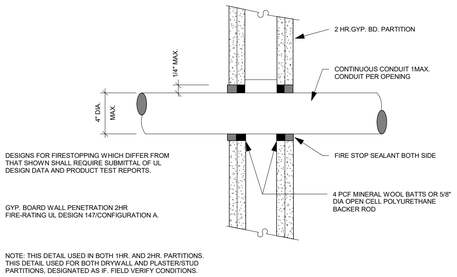
SHEET NO:
E4.1

SHEET NAME:
PANEL SCHEDULES



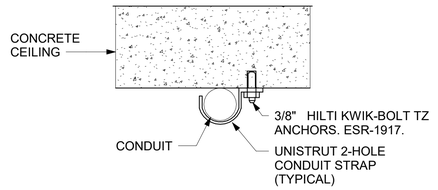
CONDUIT PENETRATION-CONCRETE WALL

Scale 12" = 1'-0"



FIRE RATED-CONDUIT PENETRATION DETAIL

Scale 12" = 1'-0"

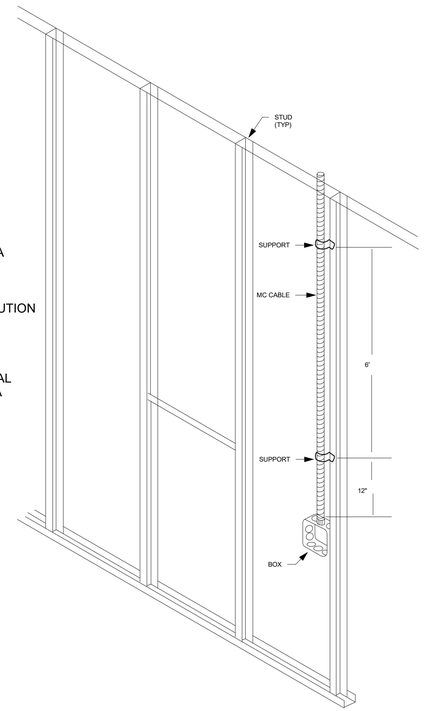


CONDUIT SUPPORT

Scale 12" = 1'-0"

USE OF MC CABLES FOR BRANCH WIRING SHALL COMPLY WITH THE FOLLOWING:

1. CONVENTIONAL CONDUIT AND WIRES SHALL BE PROVIDED FROM PANEL BOARD TO A JUNCTION BOX LOCATED IN AN ACCESSIBLE CEILING SPACE.
2. MC CABLE WITH FULLY RATED GROUND WIRE CAN BE RUN FROM JUNCTION BOX TO RESPECTIVE DEVICE. JUNCTION BOX SHALL BE LOCATED AS CLOSE TO THE DISTRIBUTION SIDE AS POSSIBLE.
3. NO MC CABLE SHALL RUN EXPOSED OR VISIBLE.
4. USE MANUFACTURER APPROVED TOOLS AND METHODS FOR CUTTING CABLES. METAL JACKET SHALL BE CAREFULLY CUT WITHOUT DAMAGING THE CONDUCTOR. INSERT A PLASTIC BUSHING TO PROTECT WIRING
5. SUPPORT MC CABLE AND SECURE AT INTERVAL NO EXCEEDING 6'-0". (SEE DETAIL)



MC CABLE BRANCH WIRING DETAIL

Scale 12" = 1'-0"

AEC MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
OFFICE: (909) 440-2855
Fax: (909) 533-2263
www.aemoreno.com

NEW CONCESSION STAND FOR SAN BERNARDINO TERMINAL AIRPORT

CAFE LOUNGE - LEVEL 2

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	DATE
	INITIAL SUBMITTAL		12-20-2022

WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER
ANTHONY WINSTON WIN
No. E-20881
ELECTRICAL
STATE OF CALIFORNIA

DATE: 10-27-2022

SHEET NO:
E5.0

SHEET NAME:
ELECTRICAL DETAILS

PLUMBING SPECIFICATIONS:

1. GENERAL

A. CONTRACTOR SHALL PERFORM ALL WORK SO AS TO CONFORM TO LOCAL, STATE AND NATIONAL CODES, AND THE REQUIREMENTS OF LOCAL AUTHORITIES HAVING JURISDICTION.

B. CONTRACTOR SHALL VISIT THE SITE PRIOR TO BIDDING TO VERIFY LOCATION, ELEVATIONS AND SIZES OF ALL EXISTING PLUMBING AND INFORM THE ARCHITECT OF ANY DISCREPANCIES.

C. FOR EXACT SPECIFICATIONS, MOUNTING HEIGHTS, COLORS, AND LOCATIONS OF ALL PLUMBING FIXTURES, REFER TO ARCHITECTURAL DRAWINGS.

D. ACCURATE AS-BUILT DRAWINGS SHALL BE MADE DURING CONSTRUCTION AND SUBMITTED FOR APPROVAL UPON COMPLETION OF INSTALLATION.

E. THE CONTRACTOR SHALL FURNISH ALL MATERIALS, LABOR, EQUIPMENT, TRANSPORTATION, AND SERVICES NECESSARY FOR THE COMPLETION OF THE WORK.

F. THESE DRAWINGS SHOW THE GENERAL SCHEME OF INSTALLATION AND ARE DIAGRAMMATIC IN SCOPE. THE CONTRACTOR SHALL BE RESPONSIBLE FOR COORDINATING HIS WORK WITH ARCHITECT AND ALL OTHER TRADES. THIS INCLUDES COORDINATING THE LOCATION, SIZE AND ELEVATION OF ALL OPENINGS.

G. CONTRACTOR SHALL BE RESPONSIBLE FOR TESTING AND START-UP OF THE SYSTEM. CONTRACTOR SHALL FILE, SECURE AND PAY FOR ALL NECESSARY APPROVALS, PERMITS AND INSPECTIONS. ALL WORK SHALL BE GUARANTEED TO BE FREE FROM DEFECT FOR ONE YEAR AFTER ACCEPTANCE OF THE INSTALLATION BY OWNER. ALL WORK SHALL BE IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE.

H. THE PLUMBING SYSTEM SHALL BE TESTED IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE. CONTRACTOR TO COORDINATE TESTS WITH LOCAL OFFICIALS.

I. DETAILS OF CONSTRUCTION AND OF WORKMANSHIP WHERE NOT SPECIFICALLY DESCRIBED HEREIN OR INDICATED ON THE DRAWINGS SHALL BE SUBJECT TO THE ENGINEER'S APPROVAL. IT IS THE INTENT OF THESE SPECIFICATIONS TO PROVIDE COMPLETE SYSTEMS, LEFT IN GOOD WORKING ORDER, READY FOR OPERATION.

2. INSTALLATION

A. ALL HOT WATER PIPING SHALL BE INSULATED PER TABLE 123-A, SECTION 123 OF THE BUILDING ENERGY EFFICIENCY STANDARDS, 2019 EDITION.

B. LAVATORIES IN RESTROOMS SHALL HAVE 0.4 GPM FLOW RESTRICTORS ON HOT WATER SUPPLY. PROVIDE STRAINER DRAIN AND OVERFLOW ON ALL SINKS.

C. CONDENSATE PIPING SHALL BE INSTALLED AT A SLOPE OF 1%.

D. SEWER PIPING SHALL BE INSTALLED AT A SLOPE OF 2%.

E. WRAP ALL IRON AND COPPER PIPE AND FITTINGS BELOW SLAB OR GRADE WITH 8 MIL POLYETHYLENE WRAP AND 6" MINIMUM ENVELOPE OF CLEAN SAND ALL AROUND PIPE IN ACCORDANCE WITH ANSI/AWWA STANDARD C105/A21.5-82.

F. WATER PIPING SHALL BE TYPE "K" BELOW GRADE TO 5 FEET OUTSIDE OF BUILDING AND TYPE "L" ABOVE GRADE, HARD DRAWN COPPER TUBING, WITH WROUGHT COPPER FITTINGS. BRAZE ALL JOINTS WITH LEAD-FREE BRAZING ALLOY. ALL WATER PIPING SHALL BE INSULATED.

G. CONDENSATE DRAIN PIPING SHALL BE TYPE "M" HARD DRAWN COPPER TUBING WITH WROUGHT COPPER FITTINGS, 95/5% ANTIMONY/TIN SWEAT JOINTS. RUN CONDENSATE DRAIN PIPING UNDER THE ROOF DECK. INSULATE ALL CONDENSATE DRAIN PIPING WITHIN BUILDING INTERIOR.

H. ALL ROOF PENETRATIONS SHALL RECEIVE LEAD PIPE FLASHING WITH SCREW CLAMP AND ELASTOMERIC SEALANT AND BE HOT ASPHALT PATCHED WITH 4 PLY. ALL WORK SHALL BE DONE BY AN APPROVED ROOFING CONTRACTOR.

I. WHERE DEVICES REQUIRING ACCESS (VALVES, CLEANOUTS, ETC.) WOULD OTHERWISE BE RENDERED INACCESSIBLE BY BUILDING CONSTRUCTION, PROVIDE FRAMED ACCESS DOOR. ACCESS DOOR FINISHES SHALL BE COORDINATED WITH ARCHITECT.

3. SCOPE OF WORK

THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE FURNISHING AND INSTALLATION OF ALL FIXTURES, MATERIALS, PIPING, AND COMPONENTS AS REQUIRED FOR A COMPLETE AND OPERATIONALLY FUNCTIONAL SYSTEM. SCOPE OF WORK SHALL INCLUDE BUT NOT BE LIMITED TO:

A. INSTALLATION OF ABOVE GROUND SANITARY DRAIN WASTE AND VENT PIPING.
B. INSTALLATION OF CLEANOUTS IN SANITARY DRAINAGE SYSTEMS.
C. INSTALLATION OF DOMESTIC HOT AND COLD WATER PIPING INCLUDING ANTI-WATER HAMMER SHOCK ABSORBERS, VALVES, STOP VALVES, FLEX-SUPPLIES, DIELECTRIC UNIONS BETWEEN DISSIMILAR PIPING MATERIALS, ETC.
D. INSTALLATION OF FIXTURES INCLUDING WALL HANGERS, SUPPORTS, STOP VALVES, FLEX- SUPPLIES, DRAINS, TRAPS, STRAINERS, FAUCETS, SOAP DISPENSERS, ESCUTCHEONS, SEATS, AND OTHER DEVICES AS SHOWN ON THE DRAWINGS AND INDICATED IN THE SCHEDULE OF PLUMBING FIXTURES.
E. TESTING OF THE PLUMBING SYSTEM INCLUDING AIR OR WATER TEST OF DRAINAGE SYSTEM ROUGHINGS, SMOKE TEST OF FINISHED DRAINAGE SYSTEM AND PRESSURE TEST OF DOMESTIC WATER SYSTEMS.
F. DISINFECTION OF THE DOMESTIC WATER SUPPLY SYSTEM.
G. INSTALLATION OF FIBERGLASS INSULATION, FITTING COVERS, AND JACKETS ON ALL HOT AND COLD DOMESTIC WATER PIPING.
H. DESIGN, FURNISHING, AND INSTALLATION OF SEISMIC BRACING.
I. CUTTING AND PATCHING AS REQUIRED.
J. PERMITS, INSPECTIONS, APPROVALS, AND CERTIFICATES, INCLUDING FEES.
K. 1 YEAR FULL GUARANTEE OF ALL WORKMANSHIP.

4. SANITARY DRAINAGE

A. BELOW GRADE SANITARY WASTE AND VENT PIPING SHALL BE ABS SOLID WALL SCHEDULE 40 ASTM D 2661, FITTINGS SHALL BE MANUFACTURED TO ASTM 3311 ABOVE GROUND SANITARY WASTE AND VENT PIPING SHALL BE NO-HUB CAST I RON MANUFACTURED TO ASTM A74 OR CISPI 301.

B. PIPING ARRANGED IN GROUPS OF TWO OR MORE LINES, WHICH PENETRATE TWO OR MORE FLOORS, SHALL BE ENCLOSED IN SHAFT HAVING A FIRE RESISTANCE RATING IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 2, 2019 CALIFORNIA BUILDING CODE.

C. CLEANOUTS FOR SANITARY DRAINAGE SYSTEMS SHALL BE LOCATED IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE.

D. ALL VENT PENETRATIONS THROUGH BUILDING ROOF SHALL BE MADE WATER-TIGHT BY THE USE OF PROPER FLASHING MATERIALS. SUBMIT FLASHING DETAILS FOR APPROVAL BY THE ARCHITECT.

E. VENTS SHALL TERMINATE NOT LESS THAN 6" ABOVE ROOF. VENTS SHALL NOT TERMINATE BELOW OR WITHIN 10' HORIZONTALLY OF ANY DOOR, WINDOW, FRESH AIR INTAKE OR OTHER VENTILATION OPENING. WHERE 10' HORIZONTAL CLEARANCE CANNOT BE MAINTAINED, EXTEND VENT TO AT LEAST 3' ABOVE VENTILATION OPENING.

PLUMBING SPECIFICATIONS (CONT.):

4. SANITARY SEWER (CONT.)

C. CLEANOUTS FOR SANITARY DRAINAGE SYSTEMS SHALL BE LOCATED IN ACCORDANCE WITH THE CALIFORNIA CODE OF REGULATIONS, TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE.

D. ALL VENT PENETRATIONS THROUGH BUILDING ROOF SHALL BE MADE WATERTIGHT BY THE USE OF PROPER FLASHING MATERIALS. SUBMIT FLASHING DETAILS FOR APPROVAL BY THE ARCHITECT.

E. VENTS SHALL TERMINATE NOT LESS THAN 6" ABOVE ROOF. VENTS SHALL NOT TERMINATE BELOW OR WITHIN 10' HORIZONTALLY OF ANY DOOR, WINDOW, FRESH AIR INTAKE OR OTHER VENTILATION OPENING. WHERE 10' HORIZONTAL CLEARANCE CANNOT BE MAINTAINED, EXTEND VENT TO AT LEAST 3' ABOVE VENTILATION OPENING.

5. DOMESTIC WATER

A. DOMESTIC COLD AND HOT WATER PIPING SHALL BE TYPE "L",HARD-DRAWN COPPER TUBE. FITTINGS SHALL BE WROUGHT COPPER. SWEAT JOINTS SHALL BE MADE USING 95%-5%, LEAD-FREE ANTIMONY/TIN SOLDER.

B. ALL POTABLE WATER PIPING SHALL BE DISINFECTED AS PER AWWA STANDARD C601-54 AND AS REQUIRED BY THE LOCAL BUILDING AND HEALTH DEPARTMENT CODES.

C. ANTI WATER-HAMMER SHOCK ABSORBERS SHALL BE WATTS SERIES 15 SIZED IN ACCORDANCE WITH THE MANUFACTURERS RECOMMENDATIONS.

D. PROVIDE STOP VALVES FOR ALL DOMESTIC WATER CONNECTIONS TO FIXTURES EXCEPT WHERE GATE VALVES ARE INDICATED ON THE DRAWINGS OR FAUCET IS PROVIDED WITH INTEGRAL STOPS.

E. PROVIDE CHROME PLATED, BRASS ANGLE STOP VALVES FOR ALL FIXTURES NOT HAVING INTEGRAL STOPS.

F. ALL PIPE, FITTINGS, FIXTURES, ETC. THAT CONTACT POTABLE WATER FOR HUMAN CONSUMPTION SHALL SHOW APPROVAL TO NSF 61, ANNEX G. REFERENCE SECTION 604.11, CALIFORNIA PLUMBING CODE, 2019 EDITION, AND HEALTH AND SAFETY CODE SECTION 116875.

6. CONDENSATE DRAIN

A. PIPING FOR PRIMARY AND SECONDARY CONDENSATE DRAINAGE SHALL BE HARD DRAWN COPPER TUBE, MINIMUM DWV WEIGHT.

B. FITTINGS FOR CONDENSATE DRAINAGE PIPING SHALL BE WROUGHT COPPER WITH 95/5% ANTIMONY/TIN SWEAT JOINTS.

C. TRAP SEAL DEPTH FOR AIR CONDITIONING CONDENSATE DRAINS SHALL NOT BE LESS THAN:

AC UNIT STATIC PRESSURE	MIN. TRAP SEAL DEPTH
LESS THAN 1" W.C.	3"
1" TO 2" W.C.	4"
MORE THAN 2" W.C.	6"

7. NATURAL GAS

A. GAS SYSTEM SHALL BE SCHEDULE 40 BLACK STEEL WITH MALLEABLE IRON FITTINGS. VALVE SHALL BE LUBRICATED PLUG TYPE, SIMILAR TO CRANE #250.

B. ALL BRANCH CONNECTIONS SHALL BE MADE ON THE TOP OR SIDE OF HORIZONTAL LINES.

C. GAS PIPING SHALL NOT BE RUN IN OR THROUGH SUPPLY AIR DUCTS, CLOTHES CHUTES, CHIMNEYS, VENTS, OR DUMBWAITERS.

D. VALVES, UNIONS OR RUNNING THREAD SHALL NOT BE LOCATED IN ANY AIR PLENUM.

E. PORTIONS OF GAS PIPING SYSTEMS INSTALLED IN CONCEALED LOCATIONS SHALL NOT HAVE UNIONS, TUBING FITTINGS, OR RUNNING THREADS.

F. HANGERS AND SUPPORTS SHALL BE OF MATERIAL OF SUFFICIENT STRENGTH TO SUPPORT THE LOADS IMPOSED. HANGERS AND STRAPPING MATERIAL SHALL BE OF SIMILAR MATERIALS AS THE PIPING TO AVOID GALVANIC ACTION.

G. INTERVAL OF SUPPORT: GAS PIPING SHALL BE SUPPORTED AT DISTANCES NOT EXCEEDING THE SPACING SPECIFIED IN TITLE 24, PART 5, 2019 CALIFORNIA PLUMBING CODE.

H. PROVIDE INDIVIDUAL VALVE FOR EACH GAS OUTLET. THE VALVE SHALL BE ACCESSIBLE AND ADJACENT TO THE APPLIANCE.

I. PROVIDE A UNION BETWEEN EACH APPLIANCE AND THE APPLIANCE GAS VALVE.

J. GAS OUTLETS WHICH DO NOT CONNECT TO APPLIANCES SHALL BE CAPPED GAS-TIGHT.

K. PROVIDE A DRIP LEG AHEAD OF EACH APPLIANCE SHUTOFF VALVE.

L. PORTIONS OF THE GAS PIPING SYSTEM INSTALLED IN CONCEALED LOCATIONS SHALL BE TESTED BEFORE THE PIPING IS COMPLETELY CONCEALED.

M. THE GAS PIPING SYSTEM SHALL BE TESTED WITH AIR OR AN INERT GAS. THE SYSTEM SHALL BE TESTED TO A PRESSURE OF 1 1/2 TIMES THE SYSTEM WORKING PRESSURE, BUT NOT LESS THAN 3 PSI. GAS PIPING SYSTEMS SHALL MAINTAIN THE FULL-TEST PRESSURE FOR A PERIOD OF 10 MINUTES.

N. THE GAS PIPING SYSTEM SHALL BE PURGED TO A SAFE LOCATION. PIPING SHALL NOT BE PURGED INTO THE COMBUSTION CHAMBER OF AN APPLIANCE.

8. HANGERS AND SUPPORTS

A. ALL FIXTURES SHALL BE SUPPORTED INDEPENDENTLY OF THE PIPING SYSTEM. SEE "FIXTURES" SECTION OF "NOTES AND SPECIFICATIONS" AND FIXTURE SCHEDULE NOTES.

B. MAXIMUM SPACING OF SUPPORTS FOR VERTICAL PIPING SHALL NOT EXCEED:

TYPE OF PIPING	MAXIMUM SPACING
HUBLESS CAST IRON SOIL LINES	AT BASE AND EACH FLOOR NOT TO EXCEED 15'
THREADED STEEL PIPE	AT EVERY OTHER FLOOR NOT TO EXCEED 25'
COPPER TUBE	AT EVERY FLOOR NOT TO EXCEED 10'
SCHEDULE 40 PVC	AT EVERY FLOOR PLUS MID-FLOOR GUIDES

PROVIDE RISER CLAMPS, WALL BRACKET HANGER, ETC. AS REQUIRED

C. MAXIMUM SPACING OF SUPPORTS FOR HORIZONTAL PIPING SHALL NOT EXCEED:

TYPE OF PIPING	MAXIMUM SPACING
HUBLESS CAST IRON SOIL PIPE	AT EVERY OTHER JOINT (EVERY JOINT WHERE OVER 4')
THREADED STEEL PIPE (3/4" OR LESS)	AT 10' INTERVALS
THREADED STEEL PIPE (1" OR LARGER)	AT 12' INTERVALS
COPPER TUBE (1-1/2" OR LESS)	AT 6' INTERVALS
COPPER TUBE (2" OR LARGER)	AT 10' INTERVALS
SCHEDULE 40 PVC	AT 4' INTERVALS

D. ALL RISERS SHALL BE SUPPORTED AT THE BASE.

E. PROVIDE CAPABILITY FOR EXPANSION AND CONTRACTION IN ALL PIPING AS INDICATED BELOW:

TYPE OF PIPING	TYPE OF PROVISIONS
DRAIN LINES IN UNHEATED AREAS	EXPANSION FITTING AT 125'
DOMESTIC HOT WATER LINES	EXPANSION LOOP AT 100'

GENERAL NOTES:

1. ALL CONSTRUCTION AND MATERIALS SHALL BE AS SPECIFIED AND IN ACCORDANCE WITH ALL APPLICABLE CODES, LAWS, ORDINANCES, PERMITS AND OTHER CONTRACT DOCUMENTS
2. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE ACCURATE PLACEMENT OF ALL NEW CONSTRUCTION ON THE SITE VERIFY
3. THE CONTRACTOR SHALL VERIFY ALL SITE CONDITIONS AND DIMENSIONS, AND VERIFY EXACT LOCATIONS AND ELEVATIONS OF PIPING POINTS ON CONNECTION BY MEANS OF PHYSICAL EXCAVATION AND SELECTIVE DEMOLITION BEFORE STATING WORK. SHOULD A DISCREPANCY APPEAR IN THE CONTRACT DOCUMENTS OR BETWEEN THE CONTRACT DOCUMENTS AND EXISTING CONDITIONS, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTION ON HOW TO PROCEED
4. SEWER,WATER, AND STORM DRAIN SYSTEMS INDICATED IN THESE DRAWINGS SHALL EXTEND TO PLUMBING/CIVIL POINTS OF CONNECTION AT 5' OUTSIDE OF THE BUILDING(S) UNLESS OTHERWISE NOTED. CONTINUATION OF THESE PIPING SYSTEMS ARE INDICATED ON THE CIVIL DRAWINGS WITH CORRESPONDING ASSOCIATED MATERIALS SPECIFIED UNDER A SEPARATE SECTION OF THE PROJECT SPECIFICATIONS. ALL SUCH PIPING SHALL BE INSTALLED IN A MANNER TO PROVIDE PROPER CONNECTION TO THE INVERT ELEVATIONS INDICATED ON CIVIL DRAWINGS. WHERE SIZES DIFFER BETWEEN PLUMBING AND CIVIL DRAWINGS, CONTRACTOR SHALL PROVIDE TRANSITION FITTINGS AS NECESSARY TO ALLOW FOR PROPER CONNECTION
5. HORIZONTAL SOIL, WASTE, GREASE WASTE AND TRAP PRIMER PIPING WITHIN THE BUILDING SHALL BE INSTALLED CONCEALED WITHIN WALLS, BELOW FINISHED FLOOR, OR BELOW FINISH SLAB AS APPLICABLE UNLESS NOTED OTHERWISE. ALL OTHER HORIZONTAL PIPING WITHIN BUILDING SHALL BE INSTALLED CONCEALED ABOVE CEILING OR WITHIN WALL AS APPLICABLE UNLESS NOTED OTHERWISE. ALL VERTICAL PIPING SHALL BE INSTALLED CONCEALED WITHIN WALLS UNLESS NOTED OTHERWISE. NO PIPING SHALL BE INSTALLED IN EXPOSED LOCATIONS UNLESS SPECIFICALLY NOTED AS SUCH ON PLANS
6. HORIZONTAL CONDENSATE PIPING SHALL SLOPE AT 1/8" PER FOOT UNLESS NOTED OTHERWISE
7. NATURAL GAS PIPE SIZING CALCULATIONS ARE BASED ON A CALORIC CONTENT OF 1,000 BTU'S PER CUBIC FOOT.
8. PIPING BETWEEN EACH PLUMBING FIXTURE AND THE NEAREST BRANCH OR MAIN PIPING RUN SHALL BE SIZED TO MATCH THE CORRESPONDING FIXTURE SCHEDULE CONNECTION SIZE AT A MINIMUM UNLESS NOTED AS A LARGER SIZE ON PLANS. PIPE HEADERS IN WALLS SERVING BANKS OF FIXTURES SHALL BE FULL LINE SIZE FROM THE UPSTREAM END OF THE BRANCH LINE TO THE END TERMINAL UNLESS NOTED OTHERWISE.
9. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS, ROUGH IN DIMENSIONS, AND MOUNTING HEIGHTS OF ALL FIXTURES, EQUIPMENT, ACCESS PANELS, HOSE BIBBS, RECESSED HOSE BIBBS, OVERFLOW DRAIN TERMINATION POINTS, AND OTHER EXPOSED PLUMBING ELEMENTS. WHERE DIMENSIONS ARE NOT INDICATED, SEEK ARCHITECT'S DIRECTION AND/OR APPROVAL
10. ACCESS PANELS:
    A. WHERE POSSIBLE USE SAME ACCESS PANEL FOR SHUT-OFF VALVES, MIXING VALVES, TRAP PRIMER AND WATER HAMMER ARRESTORS AND/OR OTHER INTERIOR WALL COMPONENTS WHEN LOCATED DIRECTLY ADJACENT IN SAME IMMEDIATE VICINITY
11. CLEANOUTS:
    A. PROVIDE CLEANOUTS PER CPC
    B. INTERIOR CLEANOUTS SHALL BE WALL CLEANOUTS RATHER THAN FLOOR CLEANOUTS UNLESS OTHERWISE NOTED. CLEANOUTS SHALL BE READILY ACCESSIBLE AND SHALL BE CAREFULLY COORDINATE WITH CASEWORK, EQUIPMENT, AND OTHER ITEMS TO AVOID CONFLICT. NOT ALL REQUIRED CLEANOUTS ARE INDICATED ON PLANS. WALL CLEANOUTS IN FINISHED SPACES SHALL BE INSTALLED IN ACCESS PANELS. SEE SPECIFICATIONS FOR ACCESS PANEL REQUIREMENTS
12. EXTERIOR YARD BOXES AND CLEANOUTS SHALL BE INSTALLED AT EXACT LOCATIONS INDICATED ON PLANS. IN THE EVENT OF A CONFLICT OR DISCREPANCY, NOTIFY THE ARCHITECT AT ONCE FOR INSTRUCTION ON HOW TO PROCEED.
13. EXTERIOR WATER SHUT OFF VALVES AND GAS SHUT-OFF COCKS SHALL BE INSTALLED WITHIN CONCRETE YARD BOXES. YARD BOX AND CLEANOUT COVERS SHALL BE CLEARLY STAMPED WITH "WATER", "GAS", OR "SEWER? AS APPLICABLE. YARD BOXES SHALL BE EQUIVALENT TO "CHRISTY" MODEL NO. B03. VALVES SHALL BE INSTALLED AND PROPERLY POSITIONED WITHIN YARD BOX TO ALLOW FOR FULL RANGE OF OPERATION, MAINTENANCE, REPAIR, AND REPLACEMENT. ALL YARD BOXES AND CLEANOUT COVERS SHALL ALIGN WITH SCORED HARDSCAPE JOINTS PER LANDSCAPE PLANS. YARD BOX SHALL BE CONCRETE. SEWER CLEANOUT COVERS SHALL BE BRASS. REFER TO SPECIFICATIONS FOR ADDITIONAL INFORMATION
14. VERIFY EXACT LOCATIONS OF ALL MECHANICAL AND/OR OTHER EQUIPMENT INSTALLED BY OTHERS AND REQUIRING PLUMBING CONNECTIONS PRIOR TO ORDERING OF MATERIALS OR INSTALLATION. COORDINATE EXACT ROUGH-IN LOCATIONS AND REQUIREMENTS WITH OTHER INSTALLING CONTRACTORS AS APPLICABLE PRIOR TO INSTALLATION.
15. ADA LAVATORIES AND SINKS SHALL BE PROVIDED WITH ADA INSULATED TRAP AND SUPPLY COVERS AS SPECIFIED
16. ADA WATER CLOSETS SHALL BE INSTALLED WITH FLUSH VALVE ACTUATOR HANDLE LOCATED ON THE WHEEL CHAIR ACCESS SIDE
17. SHUT OFF VALVES, SHUT OFF COCKS, WATER CONTROL DEVICES, CLEANOUTS, AND OTHER PIPING APPURTENANCES SHALL BE THE SAME SIZE AS PIPING SERVED UNLESS NOTED OTHERWISE
18. REFER TO MECHANICAL DRAWINGS FOR MECHANICAL MANDATORY MEASURES AND ASSOCIATED REQUIREMENTS
19. REFER TO ARCHITECTURAL DRAWINGS FOR LOCATIONS OF ALL FIRE RATED ASSEMBLIES. PROVIDE FIRESTOPPING AT PENETRATIONS THROUGH FIRE RETARDANT CONSTRICTION IN ACCORDANCE WITH SPECIFICATIONS
20. PENETRATIONS OF FIRE RESISTIVE WALLS, FLOORS-CEILINGS, AND ROOF CEILINGS SHALL BE PROTECTED AS REQUIRED IN CBC SECTION 714
21. DOMESTIC WATER PIPING AND COMPONENTS SHALL BE PROVIDED AND INSTALLED IN COMPLIANCE WITH CALIFORNIA AB 1953 LEGISLATION. WHICH LIMITS THE ALLOWABLE LEAD CONTENT IN CERTAIN DOMESTIC WATER SYSTEM COMPONENTS.

DRAWING SCHEDULE

P0.1 PLUMBING NOTES AND LEGENDS
P0.2 PLUMBING SCHEDULES
P1.0 PLUMBING FLOOR PLANS
P2.0 PLUMBING DETAILS

ACE MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.acemoreno.com

NEW CONCESSION STAND FOR SAN BERNARDINO TERMINAL AIRPORT

CAFE LOUNGE - LEVEL 2

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED BY	APPROVED BY	DATE
	INITIAL SUBMITTAL			11.23.2022
1	FIRST SUBMITTAL			

WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER
FRANCISCO A. COLLADO
35561
MECHANICAL
STATE OF CALIFORNIA

DATE: _____

SHEET NO:
P0.1

SHEET NAME:
PLUMBING NOTES AND LEGENDS

SYMBOLS AND ABBREVIATIONS

		DOMESTIC COLD WATER PLUMBING
		DOMESTIC HOT WATER PLUMBING
		VENT PLUMBING
		SANITARY/WASTE PLUMBING
WCO		WALL CLEANOUT
VTR		VENT TO ROOF
SOV		SHUT OFF VALVE
TYP	(TYP)	TYPICAL DETAIL CALLOUT
		PIPE UP
		PIPE DOWN
		BOTTOM CONNECTION
		TOP CONNECTION

PLUMBING FIXTURE SCHEDULE

MARK	FIXTURE	ROUGH-IN SIZE				REMARKS
		S/W	V	CW	HW	
L-1	LAVATORY (WALL MOUNT)	1-1/2"	1-1/2"	1/2"	1/2"	WALL-MOUNT LAVATORY AMERICAN STANDARD "LUCERNE" MODEL #0356.421 WHITE, POWERS MODEL #115A5 "TEMP-TAP" THERMOSTATIC FAUCET (FAUCET COMES PRE-SET TO 105°F - THE P.C. MUST ADJUST THE TEMPERATURE LIMIT STOP TO 110°F) STOPS AND CHECKS, INSTALL WITH BRASSCRAFT 1/2" BRAIDED FLEX SUPPLIES, 1/4 TURN ANGLE STOPS AND CHROME PLATED ONE PIECE ESCUTCHEONS. GRID STRAINER WITH CHROME PLATED P-TRAP, CHROME PLATED TRAP-ARM, AND CHROME PLATED ESCUTCHEON. P-TRAP AND WATER SUPPLIES SHALL BE WRAPPED WITH TRUEBRO LAVGUARD #102.
TP-1	TRAP PRIMER	-	-	1/2"	-	LEAD-FREE, SANI GUARD AUTOMATIC TRAP PRIMER, ALL BRONZE BODY W/ INTEGRAL VACUUM BREAKER. MN: ZURN Z1022-XL
WCO	WALL CLEANOUT	LINE SIZED	-	-	-	ZURN #1443 SQUARE WALL CLEANOUT, DURA-COATED CAST IRON BODY, GAS AND WATER TIGHT TAPERED THREAD PLUG AND NICKLE BRONZE SECURED SQUARE, SMOOTH WALL ACCESS COVER AND FRAME
FS-1	FLOOR SINK	2"	2"	-	-	CECO 908-3 12"x12"x8" FLOOR SINK WITH 3" OUTLET. ACID RESISTANT ENAMEL ON CAST IRON, INCLUDES DOME STRAINER, INSTALL WITH 3/4" TOP GRATE

HOT WATER PIPE INSULATION

PIPE DIAMETER	INSULATION THICKNESS
1/2"	3/4"
3/4"	3/4"
1"	1-1/2"
1-1/4" THRU 2"	1-1/2"

PLUMBING FIXTURE CALCULATION (COFFE LOUNGE)

MARK	DESCRIPTION	QTY	2019 CPC APPENDIX A			
			FU EACH		FU TOTAL	
			WASTE	WATER	WASTE	WATER
HS-1	HAND SINK	1	2	1.5	2	1.5
3CS-1	3 COMPARTMEN SINK	1	2	3	2	3
CB-1	COFFEE BREW	1	2	0.5	-	0.5
FS-1	FLOOR SINK	1	-	-	-	-
				TOTALS =	4	5

FROM CHART A103.1 OF THE CPC, 5 WATER FIXTURE UNITS IS EQUIVALENT TO 5 GPM. TO KEEP THE PRESSURE DROP AT LESS THAN 4 PSI FOR 100 FEET OF PIPE, A 3/4" MAIN WATER LINE IS NEEDED. HERE WE HAVE A 1-1/2" TAP SO WE WILL CONNECT TO THIS ONE.

FROM TABLE 703.2 OF THE CPC, 4 SEWER FIXTURE UNITS WILL NEED A 2" MAIN SEWER LINE. WE WILL CONNECT TO THE CLOSEST EXISTING SEWER LINE (4" SEWER). ALSO FROM TABLE 703.2 OF THE CPPC, 4 SEWER FIXTURES UNITS WILL NEED A 1-1/2" VENT. WE WILL CONNECT TO THE 2" VENT TAB (A 2" VENT CAN HANDLE 24 FIXTURE UNITS).

HOT PLUMBING FIXTURE CALCULATION (COFFE LOUNGE)

MARK	DESCRIPTION	QTY	2019 CPC APPENDIX A	
			FU EACH	FU TOTAL
			HOT WATER	HOT WATER
HS-1	HAND SINK	1	0.75	0.75
3CS-1	3 COMPARTMEN SINK	1	1.5	1.5
CB-1	COFFEE BREW	1	-	-
FS-1	FLOOR SINK	1	-	-
			TOTALS =	2.25

FROM CHART A103.1 OF THE CPC, 2.25 WATER FIXTURE UNITS IS EQUIVALENT TO 3 GPM. TO KEEP THE PRESSURE DROP AT LESS THAN 4 PSI FOR 100 FEET OF PIPE, A 3/4" MAIN HOT WATER LINE IS NEEDED. A 3/4" MAIN HOT WATER LINE WILL BE USED.

THE ELECTRIC HEATER RHEEM HU ES50-12-G WITH A TANK CAPACITY OF 50 GALLONS, 12 KW (208 V/3 PHASE) AND A HEAT RECOVERY OF 2.07 GPM WILL BE USED. THIS HEATER CAN PROVIDE 31 MINUTES OF HOT WATER AT PEAK FLOW.

1

MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.aecmoreno.com

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WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-5600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER
FRANCISCO A. COLLADO
35561
MECHANICAL
STATE OF CALIFORNIA

DATE: _____

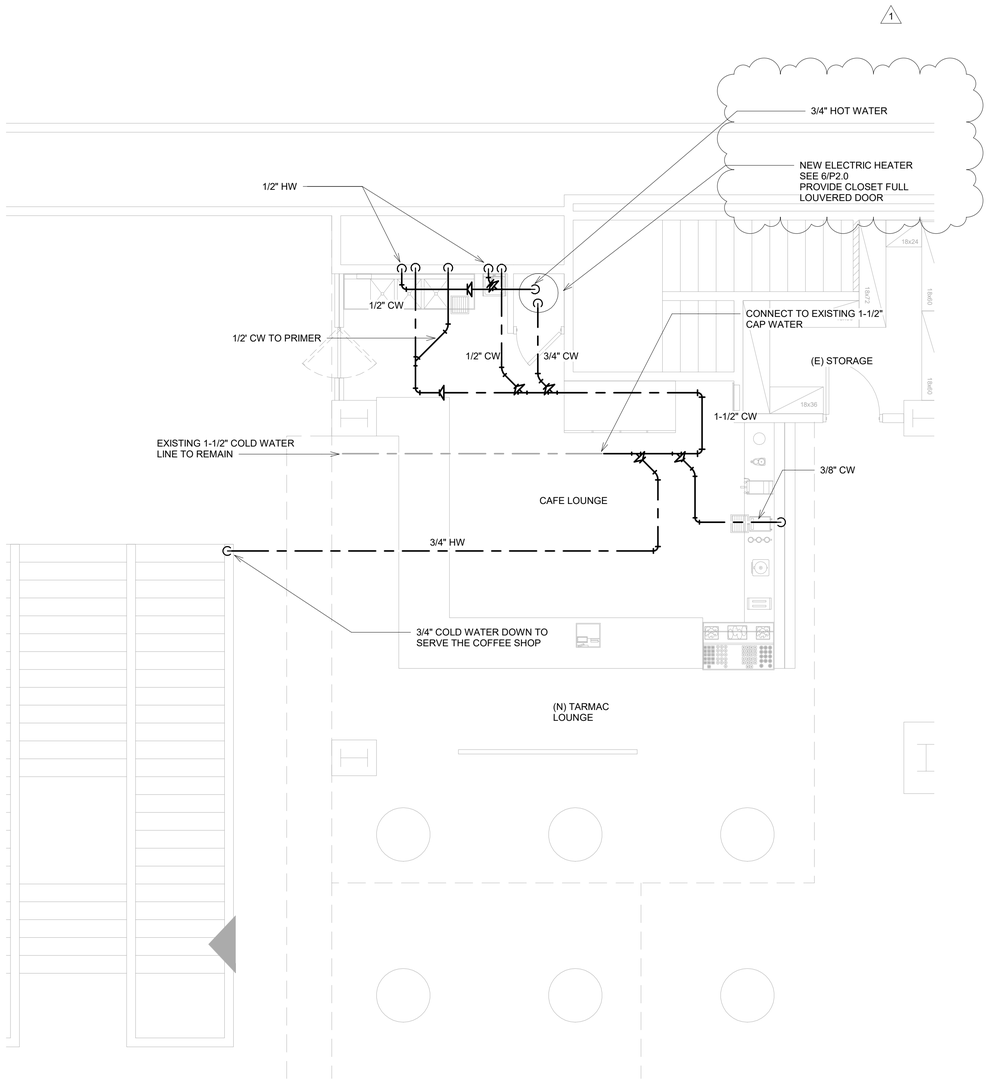
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P0.2

SHEET NAME:
PLUMBING SCHEDULES

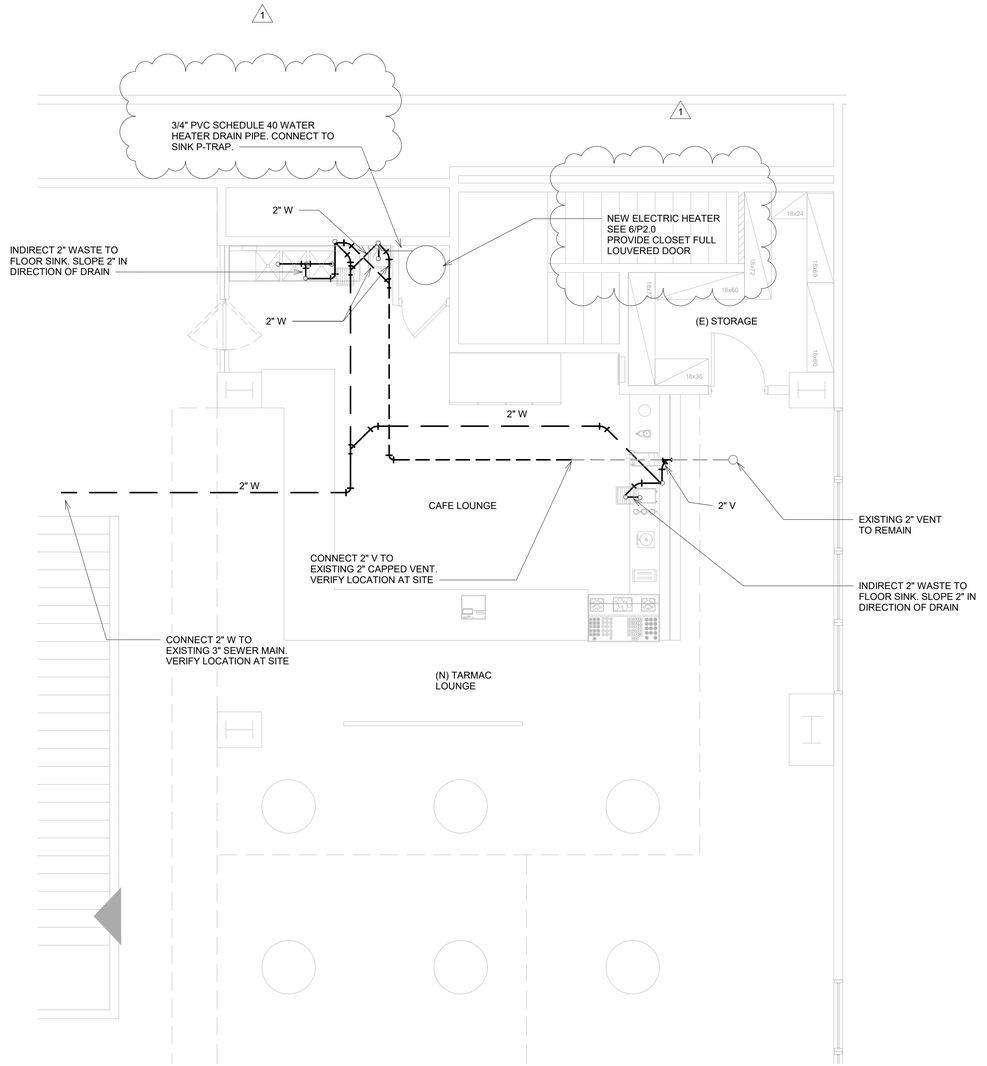
PLUMIBNG NOTES:

1) THE THREE-COMPARTMETN SINK WILL HAVE TWO (2) DRAINBOARDS.

2) THE SIZE OF THE SINK COMPARTMENTS AND DRAINBOARDS MUST BE LARGE ENOUGHT TO ACCOMODATE THE LARGEST VESSEL OR UTENSIL USED. HOWEVER, THE MINIMUM SIZE SHALL BE 18"X18" DEEP COMPARTMENTS WITH 18"X18" DRAINBOARDS OR 16"X20"X12' DEEP WITH 16"X20" DRAINBOARDS.



1 CAFE LOUNGE - CW AND HW PLUMBING
1/4" = 1'-0"



2 CAFE LOUNGE- WASTE and VENTING PLUMBING
1/4" = 1'-0"

AEC MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.aecmoreno.com

NEW CONCESSION STAND FOR SAN BERNARDINO TERMINAL AIRPORT

CAFE LOUNGE - LEVEL 2

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	REVISED DATE	APPROVED BY	DATE
1	FIRST SUBMITTAL			11.23.2022
	INITIAL SUBMITTAL			

WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6800
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER
FRANCISCO A. COLLADO
35561
MECHANICAL
STATE OF CALIFORNIA

DATE: _____

SHEET NO:
P1.0

SHEET NAME:
PLUMBING FLOOR PLANS

Heavy Duty Electric Commercial Water Heaters



Available in 50, 85 and 120 Gallon Tank-Type Models

▶ 6 KW thru 81 KW

Rheem-Ruud Electric Commercial Water Heaters are suitable for general commercial hot water applications and are also ideal for point-of-use installations. A single unit can be used as a booster heater to satisfy the hot water requirements of commercial dishwashers. A single temperature storage unit, when installed with a mixing valve, will supply two temperatures in food service establishments.

Construction Features:

- **System Sentinel** – immersion thermostat models employ an element diagnostic panel, utilizing light emitting diodes (L.E.D.), corresponding to the number and location of each heating element. This system monitors the on-off function of the electric heating elements.
- **Long life ASME tank design** – proprietary steel formulation with high temperature porcelain enamel to maximize corrosion resistance resulting in a superior tank design.
- **LIFEGUARD heating elements** – separate screw-in type elements feature a stainless steel outer sheath of INCO-LOY 840, surrounding a Nichrome wire filament, to resist water chemical corrosion and burn-out even in air or sediment...for long element life and long life performance.

Elements are directly immersed in the water for maximum recovery efficiency (98%) and are safely changed by simply screwing new ones into the tank. LIFEGUARD elements feature a three (3) year limited warranty.

- **Full port, full flow brass drain valve**
- **Minimal heat loss design** – 85% of the tank surface area on all Rheem-Ruud Commercial Electric products are insulated with 3" of rigid polyurethane foam insulation providing superior insulating qualities. Unlike other designs, Rheem-Ruud Commercial Electrics can achieve 85% because of the unique compact layout of the heating elements. **This results in heat losses less than the energy used by a 100 watt light bulb during a 48 hour standby period!**

208, 240, 277 and 480 Voltages

Surface Mounted and Immersion Thermostat Models

Certifications and Ratings:

- **Efficiency** – in accordance with ANSI test procedures, these models tested below the maximum allowable standby loss levels of current ASHRAE standards. [Part of the Federally mandated Energy Policy Act (EPact)]. Also exceeds energy efficiency codes of all states including California Energy Commission (CEC).
- **Safety and construction** – These products are design certified by Underwriters Laboratories (UL) to meet UL standard 1453 as electric booster and commercial storage tank water heaters. All models are North Carolina code compliant. **CERTIFIED FOR A 150 PSI MAXIMUM WORKING PRESSURE (150 PSI FOR ASME MODELS).**
- **Optional construction** – ASME construction is available on immersion thermostat models.

Continued on reverse

Heavy Duty Electric continued

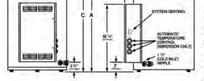
MODEL NUMBERS

INPUT KW	SURFACE MOUNTED THERMOSTATS Tank Capacity In Gallons			IMMERSION THERMOSTATS Tank Capacity In Gallons		
	50	85	120	50	85	120
6	ES06-6-G	EP85-6-G	EP120-6-G	EP50-6-G	EP85-6-G	ET120-6-G
9	EP50-9-G	EP85-9-G	EP120-9-G	EP50-9-G	EP85-9-G	ET120-9-G
12	EP50-12-G	EP85-12-G	EP120-12-G	EP50-12-G	EP85-12-G	ET120-12-G
15	EP50-15-G	EP85-15-G	EP120-15-G	EP50-15-G	EP85-15-G	ET120-15-G
18	EP50-18-FS	EP85-18-G	EP120-18-G	EP50-18-G	EP85-18-G	ET120-18-G
24	EP50-24-G	EP85-24-G	EP120-24-G	EP50-24-G	EP85-24-G	ET120-24-G
27	EP50-27-G	EP85-27-G	EP120-27-G	EP50-27-G	EP85-27-G	ET120-27-G
30	EP50-30-G	EP85-30-G	EP120-30-G	EP50-30-G	EP85-30-G	ET120-30-G
36	EP50-36-G	EP85-36-G	EP120-36-G	EP50-36-G	EP85-36-G	ET120-36-G
45	EP50-45-G	EP85-45-G	EP120-45-G	EP50-45-G	EP85-45-G	ET120-45-G
54	EP50-54-G	EP85-54-G	EP120-54-G	EP50-54-G	EP85-54-G	ET120-54-G
81	N/A	N/A	N/A	N/A	EP85A-81-GS	ET120A-81-GS

- **Fuse type** – the "G" in the model number represents Class G fuses.
- **Thermostat staging** – E models (immersion thermostat) 24 kW and above (18 kW for 208V), may be centered with additional thermostat(s) for staging. Add "E" after fuse type designation. Recommended on 81kW models. Example: E85-36-G becomes E85-36E-GS.
- **ASME construction** – E models (immersion Thermostat) may be ordered with ASME certified construction. Add "A" after capacity designation. Example: E85-36-G becomes E85A-36-G.
- **UL Sanitation compliance** – all models are UL Sanitation (NSF®) compliant when equipped with the octonal ring seal kits: E10XG – A5048SS, E15XG – A5049SS, E20XG – A5038SS.
- **Solid state low water cut-off** – E models (immersion Thermostat) may be ordered with probe type cut-off for field installation (AP8438).

DIMENSIONAL INFORMATION All dimensions shown in English (and Metric)

MODEL NUMBER	UNITS	A	B	C	D	E	APPROX. SHIPPING WEIGHT (LBS.) EMPTY	FULL
E(S)50	inches	45-5/8	39-1/4	36-1/4	32	19	273 lbs	591 lbs
	mm	1159	997	921	813	483	124 kgs	268 kgs
E(S)85	inches	57-13/16	39-1/4	49-1/2	44	20	360 lbs	945 lbs
	mm	1468	997	1257	1118	508	163 kgs	429 kgs
E(S)120	inches	67-3/8	39-1/4	59-3/4	54	21	430 lbs	1103 lbs
	mm	1710	997	1518	1372	533	195 kgs	500 kgs



- **System Sentinel** – all models employ a diagnostic panel utilizing light emitting diodes (L.E.D.), corresponding to the number and location of each heating element. L.E.D.'s are energized when the electric elements are operating. An unlit L.E.D. pinpoints the exact location of a non-functioning element, making element operation diagnosis simple and positive.

The minimum distance to provide adequate clearance for protection of combustible material is 0 inches from jacket and 19 inches from access door. However, additional clearance for accessibility to permit inspection and servicing such as removing heating elements or checking controls must be provided. All models are approved for installation on combustible flooring.

Heavy Duty Electric continued

ELECTRICAL CHARACTERISTICS

INPUT KW	NO. OF ELEMENTS	ELEMENT WATTAGE	FULL LOAD CURRENT IN AMPERES 208V 1 Phase	208V 3 Phase	240V 1 Phase	240V 3 Phase	SURFACE MOUNTED No. of T'Stats	Number of Fuses	Number of Connectors	IMMERSION THERMOSTATS Number of Fuses	Staged T'Stats No. of T'Stats	KW Step Size
6	3	2000	29	17	25	14	29	1	4	2	6	6
9	3	3000	43	25	38	22	35	1	4	2	6	9
12	3	4000	58	33	50	29	43	1	4	2	6	12
15	3	5000	72	42	63	36	54	1	4	2	6	15
18	3	6000	–	–	75	43	65	1	4	2	6	18
18	6	3000	87	50	–	–	–	1	12	4	12	9
24	6	4000	116	67	100	58	87	1	12	4	12	12
27	6	4500	130	75	113	65	98	1	12	4	12	13.5
30	6	5000	144	84	125	73	108	1	12	4	12	15
36	6	6000	–	–	150	87	130	1	12	4	12	18
36	9	4000	173	100	–	–	–	1	18	6	18	12
45	9	5000	217	125	188	109	163	1	18	6	18	15
54	9	6000	260	150	225	130	195	1	18	6	18	18
81	9	9000	–	–	–	–	–	1	18	6	18	27

Thermostat Staging –
On all immersion thermostat models, 24 kW and above (18kW for 208V), additional thermostats can be provided so that the maximum element input will not exceed 18 kW - 27 kW per step. Temperature differential between steps can be set as desired.

Note: Thermostat staging recommended on 81kW models.

WATER TEMPERATURE RATINGS

Model Number	Tank Capacity Gallons	Tank Capacity Liters	Thermostat Type	Minimum Delivered Temperature	Maximum Delivered Temperature	High Temperature Limit
E(S)50	50	189	Surface	80°F (43°C)	180°F (82°C)	190°F (88°C)
E(S)85	85	322	Surface	130°F (54°C)	180°F (82°C)	190°F (88°C)
E(S)120	119.5	454	Surface	130°F (54°C)	180°F (82°C)	190°F (88°C)
E30	30	180	Immersion	90°F (32°C)	120°F (49°C)	200°F (93°C)
E85	85	322	Immersion	90°F (32°C)	120°F (49°C)	200°F (93°C)
E120	119.5	454	Immersion	90°F (32°C)	120°F (49°C)	200°F (93°C)

RECOVERY CAPACITIES Recovery in U.S. Gallons/Hr. (GPH) and Litres/Hr. (CPH) @ Various Temperature Rises

INPUT KW	EQUIVALENT BTU/HR.	UNITS	40°F (22°C)	50°F (28°C)	60°F (33°C)	70°F (39°C)	80°F (44°C)	90°F (50°C)	100°F (56°C)	110°F (61°C)	120°F (67°C)	130°F (72°C)	140°F (78°C)
6	20,473	GPH	82	68	61	55	51	48	45	43	41	39	38
		CPH	301	256	232	209	194	181	171	161	154	147	142
9	30,709	GPH	123	102	92	82	77	72	68	65	62	59	57
		CPH	451	384	348	314	290	271	256	243	232	222	213
12	40,946	GPH	124	99	83	71	62	55	50	45	41	38	35
		CPH	451	359	302	258	226	200	181	164	149	137	127
15	51,183	GPH	155	124	103	89	78	69	62	56	52	48	44
		CPH	567	451	376	324	284	252	226	205	187	172	160
18	61,420	GPH	156	149	124	106	93	83	74	68	62	57	53
		CPH	570	542	451	387	339	302	271	248	226	208	193
24	81,893	GPH	249	199	165	142	124	110	99	90	83	75	71
		CPH	908	725	602	516	451	401	361	329	302	278	258
27	92,129	GPH	279	223	186	160	140	124	112	102	93	86	80
		CPH	1018	814	678	581	508	452	406	370	339	313	290
30	102,366	GPH	310	248	207	177	155	138	124	113	103	95	89
		CPH	1131	904	753	646	565	502	452	411	377	348	323
36	122,839	GPH	372	298	248	213	186	165	149	135	124	115	106
		CPH	1357	1085	904	775	678	603	542	493	452	417	387
45	153,548	GPH	465	372	310	266	233	207	186	169	155	143	133
		CPH	1696	1356	1130	969	847	753	678	616	565	521	484
54	184,258	GPH	556	447	372	319	279	248	223	203	186	172	160
		CPH	2028	1630	1356	1163	1018	904	814	740	678	626	581
81	276,388	GPH	836	670	558	479	419	372	335	305	279	258	239
		CPH	3049	2444	2035	1745	1527	1357	1222	1111	1018	940	873

Heavy Duty Electric continued

Other Features:

- **Integral Fusing** – all models have integral fusing for each element.
- **Anode Rods** – two (2) magnesium anodes are installed in each tank to ensure long life and corrosion resistance.
- **Temperature and Pressure Relief Valve** – AGA/ASME rated and factory installed.
- **Electrical Connections** – all models have a control box with multiple knock-outs on side to size selections to match the National Electric Code. Sizes range from 1/2" to 2". A grounding screw is provided for attaching an equipment grounding conductor.
- **Single Panel Control Box** – with hinged door, provides immediate access to all electrical components and elements.
- **Terminal Block** – all models are equipped with U.L. listed terminal blocks for simplicity of installation. The terminal block will accept either copper or aluminum field connect wire.
- **120 Volt Control Circuit** – all units are furnished with a fused 120 volt control circuit. All controls thermostats, high temperature limit, etc.) are operated off of this basic 120 volt control circuit. This circuit is created by an internal multi-tap transformer of unique design that has four (4) taps for the primary voltages, 208, 240, 277 and 480.
- **Water Connections** – hot outlet and cold inlet are 1-1/2" NPT dielectric nipples which prevent excessive turbulence of heated water and results in optimum tank draw.

Recommended Specifications:

Water heater(s) shall be model: _____, manufactured by RHEEM-RUUD, having electrical input of _____ kW and a recovery rate of _____ GPH at a 100°F temperature rise. Water heater(s) shall have a storage capacity of _____ gallons. Water heater(s) shall have the UL seal of certification and be factory equipped with an AGA/ASME rated temperature and pressure relief valve. Tank(s) shall have a double coating of high temperature porcelain enamel and furnished with magnesium anode rods rigidly supported. Water heater(s) shall meet or exceed the standby loss requirements of ASHRAE. Tank(s) shall have a working pressure of 150 psi, and shall be completely assembled. Water heater(s) shall be approved-listed and constructed in accordance with UL Sanitation (NSF®). Water heater(s) shall be equipped with LIFE-GUARD "screw-in" type elements featuring a stainless steel outer sheath of INCO-LOY 840 materials. Tank shall be insulated with 3" of rigid polyurethane foam insulation. Water heater(s) shall be constructed with a SYSTEM SENTINEL element diagnostic panel utilizing light emitting diodes. Each LED will correspond to the number and location of the heating elements and monitor their on-off function. Water heater(s) shall be provided with thermal power circuit fusing, control circuit fusing, magnetic contactors, 120 volt control circuit transformer and surface-mounted thermostat or immersion thermostat(s) with manual reset high limit control. 1-1/2" inlet and outlet water connections shall be provided. Water heater(s) shall be covered by a three year limited warranty against tank leaks.

Add for ASME construction
Water heater(s) shall be constructed in accordance with the requirements of the ASME Boiler and Pressure Vessel Code, Section IV Part HLW.

Limited Warranty:

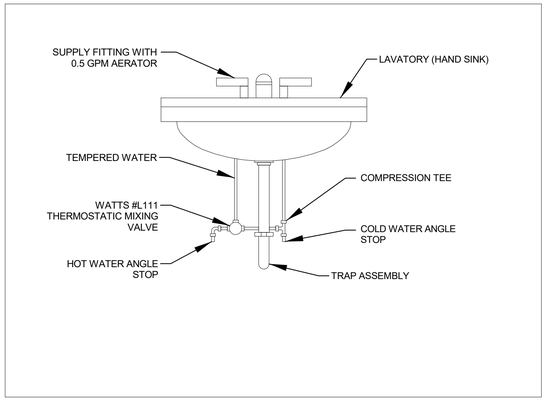
This product features a three year limited warranty against tank leaks. Please refer to Commercial Warranty information brochure for complete warranty information.

COMMERCIAL WATER HEATERS

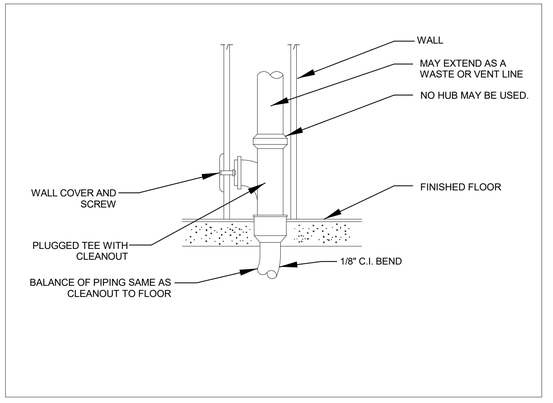
In keeping with its policy of continuous progress and product improvement, Rheem-Ruud reserves the right to make changes without notice.

Rheem Water Heaters • 101 Bell Road • Montgomery, Alabama 36117-4201 • www.rheem.com
Rheem Canada Ltd./Ltée • 125 Edgeware Road, Unit 1 • Brampton, Ontario L6Y 0P3

6 ELECTRIC WATER HEATER - CUT SHEETS
NTS

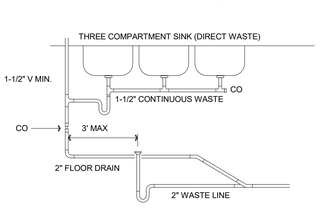


4 P7 LAVATORY INSTALLATION
NTS

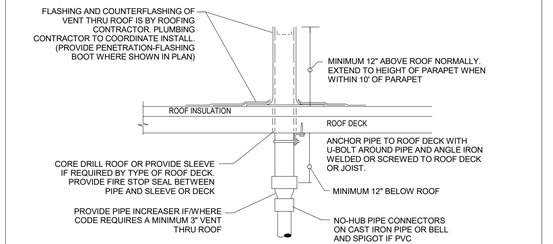


1 P4 WALL CLEANOUT
NTS

SECTION 704.3, 1997 UNIFORM PLUMBING CODE THREE COMPARTMENT POT AND PAN SINKS INSTALLED IN COMMERCIAL KITCHENS SHALL BE DIRECTLY CONNECTED TO THE PLUMBING WASTE SYSTEM PROVIDED THERE IS A FLOOR DRAIN OR FLOOR SINK INSTALLED WITHIN FIVE FEET IMMEDIATELY DOWNSTREAM OF THE SINK WASTE LINE, IN THE SAME ROOM AND NO OTHER FIXTURES CONNECTED TO THE WASTE LINE

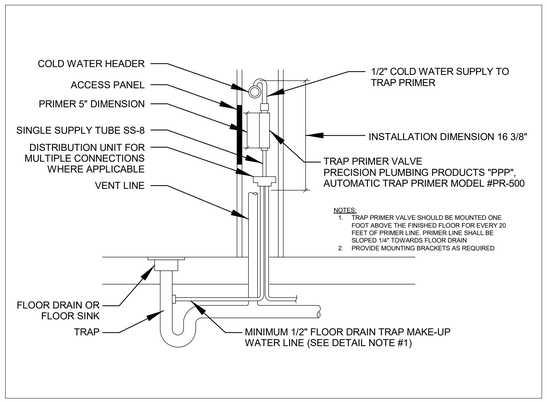


5 P10 THREE COMPARTMENT SINK
NTS



REFER TO PLANS FOR VTR PIPE SIZES AND LOCATIONS. LOCATE VTR MINIMUM THREE FEET FROM PROPERTY LINE, OR TEN FEET HORIZONTAL OR THREE FEET VERTICAL ABOVE ANY BUILDING OPENING OR FRESH AIR INTAKE, OR ONE FOOT FROM ANY VERTICAL SURFACE. LOCATE VTR MINIMUM 18" FROM PARAPET, EXPANSION JOINT, EQUIPMENT CURB, ETC. OFFSET IN CEILING SPACE WHERE REQUIRED TO MEET THESE CONDITIONS.

2 P3 VENT TO ROOF
NTS

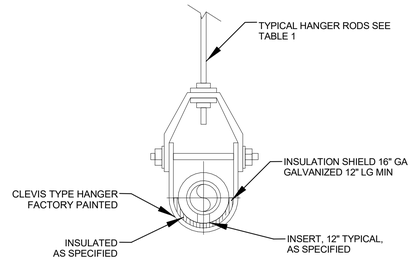


7 P2 TRAP PRIMER AND FLOOR DRAIN
NTS

HANGERS AND SUPPORT (2019 CPC TABLE 313.3)			
PIPE MATERIAL	TYPES OF JOINTS	HORIZONTAL	VERTICAL
CAST-IRON HUBLESS	SHIELDED COUPLING	~~EVERY OTHER JOINT~~, UNLESS OVER 4' THEN SUPPORT EACH JOINT	BASE AND EACH FLOOR A MAXIMUM OF 15'
COPPER TUBE AND PIPE	SOLDERED OR BRAZED	1-1/2" AND SMALLER 6'-2" AND LARGER, 10'	EACH FLOOR NOT TO EXCEED 10'
STEEL PIPE FOR GAS	THREADED OR WELDED	1/2", 6'; 3/4" AND 1", 8'; 1-1/4" & LARGER, 10'	1/2", 6'; 3/4" AND 1", 8'; 1-1/4" & LARGER, EVERY FLOOR

NOTES:
1. SUPPORT ADJACENT TO JOINT, NOT TO EXCEED 18" (457 MM)
2. BRACE NOT TO EXCEED 40' (12,192 MM) INTERVALS TO PREVENT HORIZONTAL MOVEMENT.
3. SUPPORT AT EACH HORIZONTAL BRANCH CONNECTIONS.
4. HANGERS SHALL NOT BE PLACED ON THE COUPLING
5. VERTICAL WATER LINES SHALL BE PERMITTED TO BE SUPPORTED IN ACCORDANCE WITH RECOGNIZED ENGINEERING PRINCIPLES WITH REGARD TO EXPANSION AND CONTRACTION, WHERE FIRST APPROVED BY THE AUTHORITY HAVING JURISDICTION

HANGER ROD SIZE TABLE 313.6	
PIPE AND TUBE SIZE	ROD SIZE
(INCHES)	(INCHES)
1/2 - 4	3/8"
5 - 8	3/8"
10 - 12	3/8"



PIPE HANGER DETAIL
NTS

3 P1 PIPE HANGER DETAIL
NTS

MORENO CORPORATION
236 W. ORANGE SHOW RD. SUITE 112
SAN BERNARDINO, CA 92408
Office: (909) 440-2855
Fax: (909) 533-2263
www.aemoreno.com

NEW CONCESSION STAND FOR SAN BERNARDINO TERMINAL AIRPORT

CAFE LOUNGE - LEVEL 2

APPLICANT / DEVELOPER:
JEFF BARROW
294 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

PROJECT ADDRESS:
105 N LELAND NORTH WAY
SAN BERNARDINO,CA 92408

NO.	REVISION	DATE	APPROVED BY	REVISED DATE
1	INITIAL SUBMITTAL FIRST SUBMITTAL	11.23.2022		

WINSTON ENGINEERING INC
8605 Santa Monica Blvd Ste 63454
West Hollywood, CA 90069
951-902-6600
info@winstoneng.com www.winstoneng.com

REGISTERED PROFESSIONAL ENGINEER FRANCISCO A. COLLADO 35561 MECHANICAL STATE OF CALIFORNIA

DATE: _____

SHEET NO:
P2.0

SHEET NAME:
PLUMBING DETAILS

Inland Valley Development Agency
San Bernardino International Airport Authority
1601 E. 3rd Street
San Bernardino, CA 92408
Phone: (909) 382-4100 FAX: (909) 382-4106

Change Order 1 to Contract: 2nd Floor Concession Improvements Project, dated January 10, 2023 by and between: San Bernardino International Airport Authority (Agency), and AEC Moreno Inc. (Contractor), the Contractor is hereby directed to make the following change in contract work:

ITEM	DESCRIPTION OF CHANGES	TYPE	AMOUNT
1-1	Health Department Upgrades	**Add**	**$33,800.00**
	Total Cost for Change Order 1.		**$33,800.00**

Original Contract Amount: **$ 49,999.98**
Proposed Change Order 1: **$ 33,800.00**

New Contract Amount: **$83,799.98**

ACCEPTANCE:

Contractor accepts the terms and conditions stated above as full and final settlement of any and all claims arising from this Change Order and acknowledges that the compensation (time and cost) set forth in the Change Order comprises the total compensation due for the work or change defined in the Change Order, including all impact on any unchanged work. By signing the Change Order, the Contractor acknowledges and agrees that the stipulated compensation includes payment for all Work contained in the Change Order, plus all payment for the interruption of schedules, extended overhead costs, delay, and all impact, ripple effect or cumulative impact on all other Work under this Contract. The signing of the Change Order acknowledges full mutual accord and satisfaction for the change, and that the time and/or cost under the Change Order constitute the total equitable adjustment owed the Contractor as a result of the change. The Contractor agrees to waive all rights, without exception or reservation of any kind whatsoever, to file any further claim or request for equitable adjustment of any type, for any reasonably foreseeable cause that shall arise out of or as a result of this Change Order or the impact of this Change Order on the remainder of the Work under this contract. Contractor agrees to perform the abovedescribed work in accordance with the above terms and in compliance with applicable Sections of the Contract Documents. This Change Order is hereby agreed to, accepted and approved, all in accordance with the General Conditions of the Contract Documents.

Accepted by Contractor _____ Date: _____

Approved by Agency _____ Date: _____

385 N Arrowhead Ave, San Bernardino, CA 92415 | Phone: 800.442.2283 Fax: 909.387.4323
www.SBCounty.gov
www.SBCounty.gov/dph/dehs

SAN BERNARDINO COUNTY

Public Health
Environmental Health Services

RETAIL FOOD PLAN CHECK - OFFICIAL PLAN REVIEW REPORT

FACILITY NAME				REINSPECTION DATE	INSPECTOR	DATE
THE TARMAC LOUNGE (2ND FLOOR)				Not Specified	Guy Surber	2/1/2023
LOCATION				PERMIT EXPIRATION	IDENTIFIER: None	
105 N LELAND NORTH WY, SAN BERNARDINO, CA 92408					SERVICE: 126 - PLAN CHECK FIELD INSPECTION	
TIME IN	TIME OUT	FACILITY ID	RELATED ID	PE	RESULT: 05 - CORRECTIVE ACTION / FOLLOW UP REQU	
10:45 AM	11:23 AM	Not Specified	SR0113493	1765	ACTION: 03 - REINSPECTION REQUIRED	

RETAIL FOOD PLAN CHECK - PlnCk PEP/School Prep New 0-1,499 SqFt

See the following pages for the code sections and general requirements that correspond to each violation listed below.

17K832 Plans - Preliminary Inspection

Compliance Date: Not Specified

Not In Compliance

Reference - Reference Number - SBC Policy

Inspector Comments: A preliminary inspection was conducted today at Tarmac Lounge at the San Bernardino Airport. A final inspection will be required.

Observed that hot water was not available at sinks, and must be verified at final inspection.

Observed that coffee equipment, such as Espresso and grinder (everything but coffee brewing equipment which is currently Keurig that must be replaced), were not installed at time of this inspection.

Observed majority of finishes installed throughout facility. Observed Rheem Retex-18 tankless water heater installed down stairs from food facility (within 60 feet) and janitorial area. Restrooms have individual insta-hot type water heaters at handwashing sinks. See correction.

Observed floor sink at three compartment sink, and in walkway in front of proposed coffee equipment. See correction.

Continue with construction as per approved plans.

Upon final inspection:
1. Ensure the water temperature reaches a minimum 120F at all sinks
2. Ensure all refrigeration units are holding at 41F or below
3. All equipment must be installed and operating
4. Have Health Permit Application filled out and check for permit fee ready

Provided operator with health permit application. Application will be collected at final inspection.

Description: Preliminary inspection.

17K683 Plumbing - Floor Sink - Location ⚠ CRITICAL ⚠

Compliance Date: Not Specified

Not In Compliance

Violation Reference - Reference Number - SBC Policy

Inspector Comments: Observed that floor sink in front area where coffee brewing equipment will be installed was located completely in front of counter (not half-exposed beneath counter as in plans). This is not approved. There is a steel support beam beneath floor that prevents moving floor sink so that it is half-exposed at counter as counter was initially installed.

Contact stated that counter would be modified so that floor sink was half-exposed beneath counter, and that coved base would be reinstalled so that the recessed area under the counter and behind the floor sink would have continuous approved coved base, and that approved coved base would be continuous with coved base installed at the rest of this counter on both sides.

Ensure that counter is modified as contact indicated above.

Violation Description: Floor sinks cannot be located in walkways, or in any other location where they would form a tripping hazard. Floor sinks must be half exposed - they cannot be totally covered by equipment (except for food prep and warewashing sinks).

17K050 Equipment - Construction - 6"

Compliance Date: Not Specified

Not In Compliance

Reference - HSC - 114169(b), 114268(b)

Inspector Comments: Observed that merchandiser refrigerator that will be part of front counter was installed on floor.

Install approved legs as described below on this unit.

Description: All equipment, including shelving, must be supported by six (6) inch high, easily cleanable legs, commercial castors, or completely sealed in position on a four (4) inch high continuously coved base or concrete curb to facilitate ease of cleaning.

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SAN BERNARDINO COUNTY

Public Health
Environmental Health Services

RETAIL FOOD PLAN CHECK - OFFICIAL PLAN REVIEW REPORT

FACILITY NAME	DATE
THE TARMAC LOUNGE (2ND FLOOR)	2/1/2023
LOCATION	INSPECTOR
105 N LELAND NORTH WY, SAN BERNARDINO, CA 92408	Guy Surber

17K088 Equipment - General - ANSI

Compliance Date: Not Specified

Not In Compliance

Reference - HSC - 114130(b)

Inspector Comments: Observed Keurig coffee maker that did not have ANSI certification at floor sink where coffee brewing equipment on plans is located. This is not approved.

Install ANSI certified coffee equipment, and ensure that all equipment in facility is ANSI certified (remaining coffee equipment was not installed at time of this inspection).

Observed that one door upright refrigerator and merchandiser refrigerator were ANSI certified (ETL sanitation listed).

Description: All new and replacement food-related and utensil related equipment shall be certified or classified for sanitation by an American National Standards Institute (ANSI) accredited certification program (NSF, ITS, ETL, EPH, UL Sanitation or CSA).

17K099 Equipment - Refrigeration - Insufficient

Compliance Date: Not Specified

Not In Compliance

Reference - HSC - 114002

Inspector Comments: This note is added for reference and does not require action at this time.

Contact stated that three door upright refrigeration unit on plans (on wall with TV in front area) will not be installed, and that one door upright refrigerator will be only refrigeration in facility. Menu has prepackaged items and coffee.

Contact stated that items in refrigerator will be milk, prepackaged drinks, and cream for coffee, and that the potentially hazardous items will be delivered frequently enough that this one door upright refrigerator will have capacity to hold potentially hazardous food that is in facility. This amount of refrigeration is approved on a performance basis. If an inspection finds that facility has inadequate refrigeration, additional ANSI certified refrigeration must be provided at that time.

Description: Insufficient refrigeration listed on the plans; add additional refrigeration as listed below.

17K100 Floors - Acceptable Materials

Compliance Date: Not Specified

Not In Compliance

Reference - CCDEH Guidelines - CCDEH

Inspector Comments: Floor was not completely installed in facility. Contact stated that an epoxy floor would be installed in this area.

Ensure that epoxy floor is a two part epoxy that is troweled on, and that epoxy floor is installed with an integral epoxy coved base in front and back areas. Ensure that integral epoxy coved base is as described in Floors-General-Requirements in this report.

Observed tile walls and painted gypsum board ceilings in front and back areas.

Description: Quarry tile, ceramic tile, commercially approved sheet vinyl (with a minimal wear layer thickness of 0.055 inch) and some commercial grade two part epoxy coatings (or seamless troweled epoxy floor systems) are acceptable.

17K112 Floors - General - Requirement

Compliance Date: Not Specified

Not In Compliance

Reference - HSC - 114268

Inspector Comments: Observed that sheet vinyl floor was installed in janitorial area with mop sink that Tarmac Lounge employees will use, ant that slim foot coved base tile was installed over the sheet vinyl floor. This flooring installation is under review.

If flooring installation is not approved, install approved flooring/coved base in this area, such as quarry tile floor with quarry tile coved base installed next to floor, sheet vinyl with integral coved base, epoxy floor with integral coved base, or sealed concrete floor with slim foot coved base tile or stainless steel coved base. Please contact Plan Check at (800)442-2283 with questions prior to installing flooring and coved base if needed.

Observed painted gypsum ceiling in this janitorial area. Observed sheet vinyl with integral coved base, tile wall, and painted gypsum board ceiling in restrooms adjacent to mop sink that Tarmac Lounge employees will use.

Description: Floor surfaces in all areas in which food is prepared, packaged, or stored, where any utensil is washed, where refuse or garbage is stored, where janitorial facilities are located, in all toilet and handwashing areas and in employee change and storage areas shall be of an approved type that continues up the wall four (4) inches, in a seamless manner, forming a 3/8 inch minimum radius cove as an integral unit.

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SAN BERNARDINO COUNTY

Public Health
Environmental Health Services

RETAIL FOOD PLAN CHECK - OFFICIAL PLAN REVIEW REPORT

FACILITY NAME	DATE
THE TARMAC LOUNGE (2ND FLOOR)	2/1/2023
LOCATION	INSPECTOR
105 N LELAND NORTH WY, SAN BERNARDINO, CA 92408	Guy Surber

17K152 General Protection - Sneeze Guards - Display

Compliance Date: Not Specified

Not In Compliance

Reference - HSC - 114060(a)

Inspector Comments: Observed that sneeze guard was not installed at pony wall between customer area and front service area. Observed that sneeze guard was not installed at pony wall between customer area and three compartment sink.

Install sneeze guard in these locations that is durable, nonabsorbent, smooth, easy to clean, permanent, and that blocks sneezes in a straight line to food or sanitizing areas that originate between top of pony wall and a minimum of 60 inches above the floor from any customer accessible location. Ensure that any spaces or gaps between panels or between panel and wall are a maximum of 1/4 inch.

Description: Food on display shall be protected from contamination by the use of packaging, counter, service line, or sneeze guards that intercept a direct line between the customer's mouth and the food being displayed.

17K240 Plans - Submittal - new or remodel

Compliance Date: Not Specified

Not In Compliance

Reference - HSC - 114380(a)

Inspector Comments: Facility has changes to employee areas, customer areas, and equipment that will be installed that are not reflected on approved set of plans.

Email an updated set of plans that show the food facility with layout and equipment as it will be installed, storage area that is not adjacent to food facility, and restrooms that may be used in lieu of using public restrooms with insta-hot type water heaters by janitorial area. Include make and model number of all equipment in plans.

Description: A person proposing to build or remodel a food facility shall submit 3 sets of complete, easily readable plans drawn to scale, and specifications to the enforcement agency for review, and shall receive plan approval before starting any new construction or remodeling of any facility for use as a retail food facility.

17K302 Storage - General

Compliance Date: Not Specified

Not In Compliance

Reference - CCDEH Guidelines - CCDEH

Inspector Comments: Contact stated that storage room downstairs will be used for Tarmac Lounge storage (location where all deliveries of food to airport must first be brought for screening). This area has wholesale type storage racks, VCT flooring, and rubber coved base. The items that will be stored in this area are prepackaged non-potentially hazardous, and milk and cream.

This storage area is under review, and may require installation of different finishes. If refrigeration must be installed in this area, because milk and cream will be held there, then approved flooring and coved base must be installed in this storage room. Plan update must include make and model number of refrigerators, and finishes in this room.

Description: In addition to dry food working storage (i.e., over and under counter storage) and refrigeration storage, provide an adequate sized room or area for dry food backup storage and other food related storage items, which is equipped with a minimum of 32 linear feet (3-tier high = 96 feet) of approved ANSI Certified (NSF, UL, or ITS) wire rack shelves.

17K383 Vermin - Air curtain - Delivery Doors

Compliance Date: Not Specified

Not In Compliance

Reference - CCDEH Guidelines - CCDEH

Inspector Comments: Observed that Tarmac Lounge on second floor was removed from sliding doors at terminal entrance downstairs, and that there were walls and self-closing doors between this facility and the sliding doors downstairs, with the exception of the escalator and stairs. Facility is several hundred feet from these doors.

Description: Delivery doors shall be equipped with a microswitch activated air curtain device that delivers an air velocity of at least 750 feet per minute, measured three (3) feet above the floor. The curtain of air shall cover the entire width of the door. For delivery doors that are wider than four (4) feet, the air curtain must produce an air velocity of at least 1600 feet per minute, as measured three (3) feet above the floor.

17K405 Structure - Walls - Behind Sinks

Compliance Date: Not Specified

Not In Compliance

Reference - CCDEH Guidelines - CCDEH

Inspector Comments: Observed that wall behind mop sink that Tarmac Lounge employees will use did not have approved wall covering that extended beyond sink for a minimum of 18 inches on each side of sink.

Extend tile back splash in this area so that it extends for a minimum of 18 inches beyond both sides of mop sink.

Description: The wall surfaces behind and adjacent all sinks (including Handwash and Mop sinks) shall be covered with fiberglass reinforced polyester (FRP), stainless steel, tile, or the equivalent. The approved wall cover must extend up the wall at least four (4) feet from the coved base and cover the walls behind the sink and accompanying drainboards to a minimum of eighteen (18) inches on both sides.

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RETAIL FOOD PLAN CHECK - OFFICIAL PLAN REVIEW REPORT

FACILITY NAME	DATE
THE TARMAC LOUNGE (2ND FLOOR)	2/1/2023
LOCATION	**INSPECTOR**
105 N LELAND NORTH WY, SAN BERNARDINO, CA 92408	Guy Surber

17K707 Construction - Hot Water Heater - Insufficient

Compliance Date: Not Specified

Not In Compliance

Reference - Reference Number - SBC Policy

Inspector Comments: 1. Observed that one (1) Rheem Retex-18 tankless water heater, rated at 2.5 GPM (gallons per minute) at 49F rise in water temperature, was installed down stairs (within 60') of Tarmac Lounge that has one (1) three compartment sink with one (1) faucet and one (1) sprayer and one (1) handwashing sinks. The minimum rating for these fixtures at a 50F rise in water temperature is 4.5 GPM. Contact stated that ventilation for tank water heaters could not be installed in facility, and for that reason tank water heaters could not be installed.

Install a second Rheem Retex-18 tankless water heater for Tarmac Lounge, and ensure that the two tankless water heaters are plumbed in parallel (the hot water out lines from the water heaters come together in a T joint, and one hot water line serves facility).

2. Observed one (1) Rheem Retex-18 tankless water heater rated at 2.5 GPM at 49F, that serves mop sink that Tarmac Lounge uses (within 200' of lounge). This water heater is only plumbed to mop sink, and exceeds minimum requirement of 2GPM.

3. Observed that restrooms (adjacent to janitorial area that Tarmac Lounge employees will use) have insta-hot type water heaters at each sink.

The restroom that the employees use (adjacent to janitorial/mop sink area) is under review. Either these handwashing sinks, men's and women's, must be plumbed to one approved water heater, or the restroom in the TSA area (approval from TSA required) could be used by Tarmac Lounge employees. In this later case, one approved water heater must be plumbed to the handwashing sinks (2) in the men's and women's restroom (one handwashing sink each which currently have insta-hot type water heater), and the wainscot must be extended to all walls in the restrooms (observed tile on two walls in each restroom). Observed that these TSA restrooms had approved floor, coved base, and ceiling. Observed that restrooms adjacent to janitorial/mop sink area had sheet vinyl floors and coved base, tile walls, and painted gypsum board ceiling.

Description: The proposed hot water heater is insufficient. Provide an approved hot water heater with a minimum energy input rating as listed below.

Overall Inspection Comments

Preliminary inspection conducted at Tarmac Lounge at San Bernardino Airport. Final inspection required.

FREE Classes to L.E.A.R.N!

Liaison Education And Risk Network (L.E.A.R.N.) is a FREE class based on the fundamentals of Active Managerial Control and the Centers for Disease Control and Prevention's five risk factors that lead to foodborne illnesses. Find out when the next L.E.A.R.N. class is by checking our calendar.

Total # of Images: 0

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 7** **PRESENTER: Stephen McIntyre, Airport Maintenance Manager**

SUBJECT: AUTHORIZE STAFF TO ADVERTISE A REQUEST FOR PROPOSALS (RFP) FOR HEATING, VENTILATION, AND AIR CONDITIONING (HVAC) CONTRACTORS

SUMMARY

Approval of this item will allow staff to advertise requests for proposals from HVAC contractors.

RECOMMENDED ACTION(S)

Authorize staff to advertise a Request for Proposals (RFP) for Heating, Ventilation, and Air Conditioning (HVAC) services in accordance with San Bernardino International Airport Authority (SBIAA) purchasing policies and procedures.

FISCAL IMPACT

None at this time.

PREPARED BY:	Stephen McIntyre
CERTIFIED AS TO AVAILABILITY OF FUNDS:	N/A
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

SBIAA contracts HVAC services from qualified contractors for the following SBIAA owned buildings: Former commissary building, World Wide Wings (flight school), International Terminal & Jet Bridge, Luxivair SBD (FBO), customs building, rental car building (Hertz), Domestic Terminal & Jet Bridges, ARFF station/Badging Office, Guang Lin Café (restaurant on Del Rosa), belly cargo building, Maintenance Building, UAS Center Admin Building, Hangar 763 offices and annex, Air Traffic Control Tower, Sheriff's Hangar, and three (3) IVDA facilities that include: Norton Regional Event Center, former BX building, and DFAS 1.

This item is for approval to advertise an RFP from HVAC contractors only. Proposals received from this solicitation will be evaluated, and the most competitive proposal will be presented to the SBIAA Commission for consideration and approval at a future meeting.

Staff recommends the SBIAA Commission approve the above recommended action.

Attachments:

1. List of Facilities

INLAND VALLEY DEVELOPMENT AGENCY (IVDA) 3 LOCATIONS		
1. DFAS 1 building	1. Norton Regional Event Center	2. Former BX building
SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY (SBIAA) 15 LOCATIONS		
2. Domestic terminal	3. Guang Lin Café (restaurant)	4. Maintenance building
5. Hangar #763 & annex	6. Belly cargo building	7. Customs offices
8. ARFF station/badging	9. Luxivair SBD (FBO)	10. UAS Center admin
11. Air traffic control tower	12. World Wide Wings (flight school)	13. Former commissary building
14. International terminal	15. Sheriff's hangar	16. Rental car building (Hertz)

17.

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 8** **PRESENTER: Jennifer Farris, Assistant Secretary of the Commission**

SUBJECT: APPROVE MEETING MINUTES: JANUARY 25, 2023

SUMMARY

Submitted for consideration and approval by the San Bernardino International Airport Authority (SBIAA) Commission: Meeting minutes of the regular meeting held Wednesday, January 25, 2023.

RECOMMENDED ACTION(S)

Approve meeting minutes of the regular meeting held January 25, 2023.

FISCAL IMPACT

None.

PREPARED BY:	Jennifer Rodriguez
CERTIFIED AS TO AVAILABILITY OF FUNDS:	N/A
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

None.

Attachments:

1. January 25, 2023 meeting minutes

SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY

REGULAR MEETING COMMISSION ACTIONS

WEDNESDAY, JANUARY 25, 2023

3:00 P.M. (Closed Session, immediately followed by Open Session)

MAIN AUDITORIUM – Norton Regional Event Center 1601 East Third Street, San Bernardino, CA

A regional joint powers authority dedicated to the reuse of Norton Air Force Base
for the economic benefit of the East Valley

Commission Members	
City of Colton	
Mayor Frank J. Navarro, President	Present
Councilmember John Echevarria (alt)	Present (in audience)
City of Loma Linda	
Councilmember Rhodes Rigsby	Present
Mayor Phillip Dupper (alt)	Absent
County of San Bernardino	
Supervisor Dawn Rowe	Present
Supervisor Joe Baca, Jr. (alt)	Absent
City of San Bernardino	
Mayor Helen Tran	Absent
Councilmember Theodore Sanchez	Present
Mayor Pro Tem Fred Shorett (alt)	Present
City of Highland	
Mayor Pro Tem Penny Lilburn	Present
Mayor Larry McCallon (alt)	Present (in audience)
Staff Members and Others Present	
Michael Burrows, Chief Executive Officer	Scott Huber, Counsel, Cole Huber, LLP
Mark Gibbs, Director of Aviation	Catherine Pritchett, Director of Administration
Mark Cousineau, Director of Finance	Jeff Barrow, Director of Development
Jennifer Farris, Assistant Secretary of the Commission	Amber Casarez, Marketing Manager
Jonathan Galvan, Airport Manager	Mark Dennis, IT Manager

The Regular Meeting of the San Bernardino International Airport Authority was called to order by President Frank Navarro at approximately 3:06 p.m. on Wednesday, January 25, 2023.

A. CALL TO ORDER / ROLL CALL

Roll call was duly noted and recorded by voice.

Members of the Commission and staff joined Councilmember Theodore Sanchez in the Pledge of Allegiance.

B. CLOSED SESSION PUBLIC COMMENT

There was no closed session public comment.

C. CLOSED SESSION

There were no closed session items.

D. REPORT ON CLOSED SESSION

There were no closed session items to report.

E. ITEMS TO BE ADDED OR DELETED

There were no items to be added or deleted.

F. CONFLICT OF INTEREST DISCLOSURE

1. President Frank Navarro stated Commission members should note the item(s) listed which might require member abstentions.

   There were no conflicts noted.

G. **INFORMATIONAL ITEMS**

Mr. Michael Burrows, Chief Executive Officer, presented the following informational items:

2. Informational Items
   a. Chief Executive Officer's Report
   b. Policies and Procedures Update
   c. Report on Audit
   d. Report on appointment of ad hoc members for SBIAA, Inc.
   e. Report on annual airport operations for calendar year 2022

2a. President Frank Navarro acknowledged Councilmember John Echevarria who was present in the audience and welcomed him as a newly appointed alternate SBIAA Commission Member.

2b. Ms. Catherine Pritchett, Director of Administration, provided a brief update on Agenda Item No. 2b.

2c. Mr. Mark Cousineau, Director of Finance, provided a brief report on Agenda Item No. 2c.

2d. Mr. Michael Burrows, Chief Executive Officer provided a brief report on Agenda Item No. 2d. It was the consensus of the Commission for Secretary Penny Lilburn, Supervisor Dawn Rowe, and Mayor Pro Tem Fred Shorett to be appointed to the Ad Hoc Committee for SBIAA, Inc.

2e. Mr. Mark Gibbs, Director of Aviation, referenced an overhead entitled "2022 Operational Results" (as contained on pages 021-029 in the Agenda Packet) and provided a brief report on Airport Operations for Calendar Year 2022.

H. COMMISSION CONSENT ITEMS

Let the record reflect that all votes were done by roll call with each Commissioner's name and vote stated by voice.

3. Register of Demands – December 28, 2022
4. Register of Demands – January 25, 2023
5. Receive and file Treasurer's Report for October 31, 2022 for the San Bernardino International Airport Authority (SBIAA)
6. Receive and file Treasurer's Report for November 30, 2022 for the San Bernardino International Airport Authority (SBIAA)
7. Approve the filing of a Notice of Completion for the construction contract with Black Coffee Sign Fabricators, Inc. for the Rental Carport Awning Project, and authorize the release of retained funds
8. Approve the filing of a Notice of Completion for the construction contract with Tri-Valley Industries, Inc. for the West Annex Roof Repair Project
9. Approve Meeting Minutes: November 17, 2022 (Special)

ACTION: Approve Agenda Item Nos. 3-9

RESULT:	**ADOPTED [UNANIMOUSLY]**
MOTION/SECOND:	Rigsby / Rowe
AYES:	Lilburn, Navarro, Rigsby, Rowe, Sanchez, and Shorett.
NAYS:	None.
ABSTENTIONS:	None.
ABSENT:	None.

I. COMMISSION ACTION ITEMS

Let the record reflect that all votes were done by roll call with each Commissioner's name and vote stated by voice.

10. Adopt Resolution No. 2023-01 of the San Bernardino International Airport Authority (SBIAA) proclaiming the existence of a temporary emergency due to extensive damage to SBIAA Storm Drain Channels for the purpose of temporarily suspending bidding requirements; and delegating the authority for related actions to the Chief Executive Officer

Ms. Catherine Pritchett, Director of Administration, provided a brief report on Agenda Item No. 10.

ACTION: Adopt Resolution No. 2023-01 of the San Bernardino International Airport Authority (SBIAA) proclaiming the existence of a temporary emergency for the purpose of temporarily suspending bidding requirements; and delegating the authority for related actions to the Chief Executive Officer.

RESULT:	**ADOPTED [UNANIMOUSLY]**
MOTION/SECOND:	Rigsby / Lilburn
AYES:	Lilburn, Navarro, Rigsby, Rowe, Sanchez, and Shorett.
NAYS:	None.
ABSTENTIONS:	None.
ABSENT:	None.

11. Adopt Resolution No. 2023-02 of the San Bernardino International Airport Authority (SBIAA) authorizing submission of Form 130 – Designation of Applicant's Agent Resolution to the State of California's Emergency Management Agency; and delegate authority for emergency related actions to the Chief Executive Officer

Ms. Catherine Pritchett, Director of Administration, provided a brief report on Agenda Item No. 11.

ACTION: Adopt Resolution No. 2023-02 authorizing submission of Form 130 – Designation of Applicant's Agent Resolution to the State of California's Emergency Management Agent; and delegate authority for emergency related actions to the Chief Executive Officer.

RESULT:	**ADOPTED [UNANIMOUSLY]**
MOTION/SECOND:	Rigsby / Rowe
AYES:	Lilburn, Navarro, Rigsby, Rowe, Sanchez, and Shorett.
NAYS:	None.
ABSTENTIONS:	None.
ABSENT:	None.

12. Consider and adopt proposed budget adjustments for Fiscal Year 2022-2023

Mr. Mark Cousineau, Director of Finance, referenced the "Proposed Budget Adjustments Table" found on page 080 of the Agenda Packet and provided a brief report.

ACTION: Consider and adopt budget adjustments reflected in the "Proposed Budget Adjustments Table" for Fiscal Year 2022-2023.

RESULT:	**ADOPTED [UNANIMOUSLY]**
MOTION/SECOND:	Rigsby / Sanchez
AYES:	Lilburn, Navarro, Rigsby, Rowe, Sanchez, and Shorett.
NAYS:	None.
ABSTENTIONS:	None.
ABSENT:	None.

13. Approve Change Order No. 2 with Goss Construction Company, Incorporated which carries a cost impact of $91,478.41 for the runway 6/24 Joint and Spall Repair Project

Mr. Mark Gibbs, Director of Aviation, referenced an overhead map and provided a brief report on Agenda Item No. 13.

ACTION: Approve Change Order No. 2 with Goss Construction Company, Incorporated with a cost impact of $91,478.41 for the Runway 6/24 Joint and Spall Repair Project; and authorize the Chief Executive Officer to execute all related documents.

RESULT:	**ADOPTED [UNANIMOUSLY]**
MOTION/SECOND:	Rigsby / Shorett
AYES:	Lilburn, Navarro, Rigsby, Rowe, Sanchez, and Shorett.
NAYS:	None.
ABSTENTIONS:	None.
ABSENT:	None.

14. Approve Change Order No. 1 with Griffith Company with a project cost savings of $317,477.26 for the Taxiway Shoulder Improvement Project

Mr. Mark Gibbs, Director of Aviation, referenced an overhead map and provided a brief report on Agenda Item No. 14.

ACTION: Approve Change Order No. 1 with Griffith Company with a project cost savings of $317,477.26 for the Taxiway Shoulder Improvement Project; and authorize the Chief Executive Officer to execute all related documents.

RESULT:	**ADOPTED [UNANIMOUSLY]**
MOTION/SECOND:	Rigsby / Lilburn
AYES:	Lilburn, Navarro, Rigsby, Rowe, Sanchez, and Shorett.
NAYS:	None.
ABSTENTIONS:	None.
ABSENT:	None.

15. Approve an agreement with DBT Transportation Services, LLC (DBT) for the installation of a Thales ILS 420 Glideslope in an amount of $232,780.58 with a 10% contingency not to exceed $23,278

Mr. Mark Gibbs, Director of Aviation, provided a brief report on Agenda Item No. 15.

ACTION: Approve an agreement with DBT Transportation Services, LLC (DBT) for installation, calibration, and certification of a new ILS 420 Glideslope in an amount of $232,780.58 with a 10% contingency not to exceed $23,278; and authorize the Chief Executive Officer to execute all related documents.

RESULT:	**ADOPTED [UNANIMOUSLY]**
MOTION/SECOND:	Rigsby / Sanchez
AYES:	Lilburn, Navarro, Rigsby, Rowe, Sanchez, and Shorett.
NAYS:	None.
ABSTENTIONS:	None.
ABSENT:	None.

16. Approve Amendment No. 2 to the Professional Services Agreement with Aviatrix Communications, LLC in an amount not to exceed $220,000 for marketing and outreach initiatives supporting passenger service at SBD International Airport

Ms. Amber Casarez, Marketing Manager, provided a brief report on Agenda Item No. 16.

Commissioners requested that Aviatrix Communications, LLC provide a presentation at a later meeting specifying marketing campaign metrics and results for the SBD Airport.

ACTION: Approve Amendment No. 2 to the Professional Services Agreement with Aviatrix Communications, LLC in an amount not to exceed $220,000 in a total not to exceed contract amount of $720,000; and authorize the Chief Executive Officer to execute all related documents.

RESULT:	**ADOPTED [UNANIMOUSLY]**
MOTION/SECOND:	Rigsby / Sanchez
AYES:	Lilburn, Navarro, Rigsby, Rowe, Sanchez, and Shorett.
NAYS:	None.
ABSTENTIONS:	None.
ABSENT:	None.

17. Approve the purchase of three (3) 2022 Chevrolet Colorado Vehicles to be used as airport maintenance support vehicles from Mark Christopher Chevrolet in an amount not to exceed a combined total of $110,000.00

Mr. Jonathan Galvan, Airport Manager, provided a brief report on Agenda Item No 17.

ACTION: Approve the purchase of three (3) new 2022 Chevrolet Colorado Trucks for Grounds Maintenance in an amount inclusive of taxes, titles, and DMV fees totaling $109,561.15, plus an allowance for any unforeseen ancillary costs in the amount of $438.85 with Mark Christopher Chevrolet for a total not to exceed amount of $110,000; and authorize the Chief Executive Officer to execute all related documents.

RESULT:	**ADOPTED [UNANIMOUSLY]**
MOTION/SECOND:	Shorett / Lilburn
AYES:	Lilburn, Navarro, Rigsby, Rowe, Sanchez, and Shorett.
NAYS:	None.
ABSTENTIONS:	None.
ABSENT:	None.

18. Approve Amendment No. 2 to the service agreement with SITA Information Networking Computing USA, Inc. (SITA) for upgrades to passenger processing equipment at Airline Gate #2 in the Domestic Terminal in an amount not to exceed $12,494.83

Mr. Mark Dennis, IT Manager, provided a brief report on Agenda Item No 18.

ACTION: Approve Amendment No. 2 to the service agreement with SITA Information Networking Computing USA, Inc. to upgrade passenger processing equipment at Airline Gate #2 in the Domestic Terminal in an amount not to exceed $12,494.83; and authorize the Chief Executive Officer to execute all related documents.

RESULT:	**ADOPTED [UNANIMOUSLY]**
MOTION/SECOND:	Rigsby / Sanchez
AYES:	Lilburn, Navarro, Rigsby, Rowe, Sanchez, and Shorett.
NAYS:	None.
ABSTENTIONS:	None.
ABSENT:	None.

19. Consider and discuss the SBD Good Neighbor Program Quarterly Report

Mr. Mark Gibbs, Director of Aviation, introduced Ms. Rosemary Barnes, Aviatrix Communications.

Ms. Barnes referenced a PowerPoint presentation entitled "San Bernardino International Airport – Quarterly Report: January 2023" (as contained on pages 115-140 in the Agenda packet) and provided a brief report.

This item was for discussion purposes only; no formal action was taken.

ACTION: Consider and discuss the SBD Good Neighbor Program quarterly report.

20. Review Status of the Action Plan for the San Bernardino International Airport Authority (SBIAA) through June 30, 2023

Mr. Michael Burrows, Chief Executive Officer, referenced a PowerPoint presentation entitled "June, 2023 –Airport Focal Areas" (as contained on pages 143-145 in the Agenda Packet) and provided a brief report on Agenda Item No. 20.

This item was for discussion purposes only; no formal action was taken.

ACTION: Review the Action Plan for the San Bernardino International Airport Authority through June 30, 2023.

J. ADDED AND DEFERRED ITEMS

There were no items to be added or deferred.

K. OPEN SESSION PUBLIC COMMENT

There were no open session public comments

L. COMMISSION MEMBER COMMENT

There were no Commission Member comments.

M. ADJOURNMENT

There being no further business before the Commission, President Frank Navarro declared the meeting adjourned at 4:06 p.m.

Approved at a Regular Meeting of the San Bernardino International Airport Authority on Wednesday, February 22, 2023.

Jennifer Farris
Assistant Secretary of the Commission

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 9** **PRESENTER: Mark Cousineau, Director of Finance**

SUBJECT: CONSIDER AND ADOPT PROPOSED BUDGET ADJUSTMENTS FOR FISCAL YEAR 2022-2023

SUMMARY

The proposed adjustments to the Fiscal Year 2022-2023 San Bernardino International Airport Authority's (SBIAA) budget are to fund the increase in various expenses related to improvements, repairs and replacement work required to initiate and expand passenger air service and airport operations. This proposed adjustment for Fiscal Year 2022-2023 is detailed in the "Proposed Budget Adjustments Table."

RECOMMENDED ACTION(S)

Consider and adopt budget adjustment reflected in the "Proposed Budget Adjustments Table" for Fiscal Year 2022-2023.

FISCAL IMPACT

The composition for the requested adjustments are detailed in the "Proposed Budget Adjustments Table". The combined net effect on the San Bernardino International Airport Authority's Fiscal Year 2022-2023 Budget, if approved, would be a decrease in net income of $112,750. SBIAA has sufficient revenues in the current adopted budget, cash on hand, and other resources to cover the net effect for this budget adjustment.

PREPARED BY:	Mark Cousineau
CERTIFIED AS TO AVAILABILITY OF FUNDS:	Mark Cousineau
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

On May 16, 2022, the Commission conducted a budget workshop to receive information and provide direction on proposed expenditures and capital projects totaling $2,492,233 to prepare for the initiation of new passenger service. The SBIAA Executive Ad Hoc Committee previously reviewed this portfolio of proposed expenditures. It was anticipated that the proposed expenditures would bridge Fiscal Years 2021-2022 and 2022-2023, affecting both fiscal years based on the work performed in each fiscal year.

On June 22, 2022, the San Bernardino International Airport Authority (SBIAA) Commission adopted the SBIAA Budget for Fiscal Year 2022-2023. SBIAA staff determined the following adjustments are necessary based on changes since the budget was approved.

The net effect of the proposed budget adjustments is a decrease of budgetary net income by $112,750. The total increase in revenues and estimated revenues in the proposed budget adjustments is $166,700 and the total increase in the proposed expenditures is $279,450. The increase in budgetary revenues are an anticipated recovery of costs from the responsible party for a property loss and a federal grant to rehabilitate the airfield vehicle access road. Increases in budgetary expenditures are repairs to the existing instrument landing system ($3,900); airport roadway infrastructure repairs ($46,000); increased consultant services to support the hydrogen hub grant application ($50,000); anticipated repairs and maintenance of Domestic Terminal mechanical systems ($40,000); engineering support for airfield vehicle access road rehabilitation ($132,800); and to clear a budgetary deficit caused by an unplanned self-insured emergency property repair ($6,750).

PROPOSED BUDGET ADJUSTMENTS TABLE

	Proposed Adjustments			Approved Budget	Proposed Adjustments	Adjusted Budget
Expenditures & Transfers Out						
A	General Fund	50423	- NAVIDS/ATCT Repairs	$ 11,000	$ 3,900	14,900
B	General Fund	51810	- Insurance Claims	-	46,000	46,000
C	Capital Project Fund	52605	- Airport Green Energy Element Project	100,000	50,000	150,000
D	General Fund	50443	- Contract Services-Airline Support	157,208	40,000	197,208
E	Capital Project Fund	FAA2301	- FAA-AOA Vehicle Access Road	-	132,800	132,800
F	Property Management Fund	51811	- Emergency Repairs - Uninsured	-	6,750	6,750
			Increase (Decrease) in expenditures & transfers out		279,450	
Revenues & Transfers In						
B	General Fund	41931	- Insurance Claims Recovery		46,000	46,000
E	Capital Project Fund	41900	- Grant Revenue-FAA		120,700	
			Increase (Decrease) in revenues & transfers in		166,700	
			Net Budget Adjustment, Expenses in Excess of Revenues		$ 112,750	

Notes:

A: Increase of $3,900 for additional parts, installation, and calibration of the lightning damaged instrument landing system.

B: Increase of $46,000 to repair curb, gutter, and stormwater sewer damage at Victoria and "W" Street that will be recovered from the responsible party.

C: Increase of $50,000 in professional services support for green energy Hydrogen Hub grant application.

D: Increase of $40,000 to carry out anticipated expeditious repairs and maintenance of mechanical systems at the Domestic Terminal including, but not limited to, jet bridges and the baggage handling system.

E: Increase of $132,800 for the design, paving, and construction management of the airfield vehicle access road funded through the Bipartisan Infrastructure Law and administered by the FAA.

F: To establish the budget and cure the deficit for an unplanned and self-insured property loss in which work was performed to remove, make safe, and replace a knocked down street light standard near Victoria and "U" Street.

Staff recommends the Commission approve the proposed budget adjustments.

Attachments:

1. None.

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 10** **PRESENTER: Jeff Barrow, Director of Development**

SUBJECT: APPROVE A CONSTRUCTION CONTRACT WITH JERGENSEN CONSTRUCTION FOR THE CITY CREEK BYPASS CHANNEL MAINTENANCE AND REPAIR PHASE 1 PROJECT IN AN AMOUNT NOT TO EXCEED $96,335.20

SUMMARY

Staff received bids from contractors for the City Creek Bypass Channel Maintenance and Repair Phase 1 Project on January 22, 2023. All bids were considerably above the estimate for construction. Staff redesigned the project and issued for bidding. The Clerk of the Board received new bids on February 9, 2023. The proposed construction provides for repairs needed immediately to the City Creek Bypass Channel.

RECOMMENDED ACTION(S)

Approve a construction contract with Jergensen Construction for the City Creek Bypass Channel Maintenance and Repair Phase 1 Project in an amount not to exceed $96,335.20; and authorize the Chief Executive Officer to execute all related documents.

FISCAL IMPACT

None. Funding for this project is included in the adjusted San Bernardino International Airport Authority (SBIAA) Fiscal Year 2022-2023 Budget in the Capital Project Fund, Account 52563 in the amount of $100,000 of which $100,000 is available to fund this contract.

PREPARED BY:	Jim Harris, Consultant
CERTIFIED AS TO AVAILABILITY OF FUNDS:	Mark Cousineau
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

The City Creek Bypass channel is located north of the SBD International Airport. It runs parallel to 3rd Street between Victoria and Sterling Avenues. The channel conveys stormwater runoff from the Cities of San Bernardino and Highland and excess flows from City Creek. The water flows through County Flood Channels, through the SBIAA owned City Creek Bypass Channel and ultimately discharges into the Santa Ana River. The Channel was originally constructed in the 1950's by the Air Force to prevent flooding onto the then Leland Norton Air Force Base. Over these many decades, the channel construction is now failing in sections and requires yearly maintenance and repair to keep the channel working as intended. Location Map is attached. Recent storms have caused major damage to several of the concrete side wall structures. Photos are attached.

Staff prepared construction drawings addressing eight (8) areas comprised of the most damaged locations. A budget was developed using the previous project costs for removal and replacement of concrete and removal of trash and excess soil. The original estimate used a multiplier of 70% from the previous known costs due to the recent inflation of costs for materials. The actual quotes came in at 100% over the estimate. Funds are not available to complete the entire project. Staff modified the scope and reissued the bid documents for bidding purposes. The available funding is $100,000. This modified project does address the most critical items which includes removal and replacement of three (3) side panels, clearing of grub throughout the channel from plants and debris, and weed abatement at construction joints for entire channel.

The Clerk of the Board received construction bids for the modified project on February 9, 2023. The Bid Tab Sheet is attached:

- Jergensen Construction $96,335.20
- Los Angeles Engineering $96,416.00
- AEC Moreno, Inc. Declined to submit bid.
- Leonidas Builders Declined to submit bid.

Staff recommends the Commission approve the above recommended actions.

Attachments:

1. Location Map
2. Photos of Damage
3. Bid Tabulation
4. Original Request for Proposal
5. New Request for Proposal



City Creek Bypass Channel - 1 mile east to west



CITY CREEK BYPASS CHANNEL, WALL FAILURE AND UNDERMINE, AREA 1





CITY CREEK BY PASS CHANNEL, WALL FAILURE AND CRACKING, AREA 2 ABOVE AND AREA 4 BELOW



SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY (SBIAA)

Request for Proposals

LOG SHEET

Project/Contract Name: City Creek Bypass Channel Repair and Maintenance Project Phase I – RE-BID

DUE DATE: Thursday, February 9, 2023 **TIME: 10:00 A.M.**

#	COMPANY NAME	RESPONDENT	ADDRESS	PHONE #	AMOUNT OF BID	RECEIVED
1	Jergensen Construction, Inc.	Todd Jergensen, President	9320 Daisy Rd., Oak Hills, CA 92344	(760) 947-4545	$96,335.20	6:17 A.M. 02/09/2023
2	Los Angeles Engineering, Inc.	Aaron O' Brien, Secretary	633 N. Barranca Ave., Covina, CA 91723	(951) 736-7600	$96,416.00	9:31 A.M. 02/09/2023
3						
4						
5						
6						
7						
8						

*SUBMITTED BIDS OPENED AND READ BY JENNIFER FARRIS, ASSISTANT SECRETARY OF THE COMMISSION; RESPONSE LOG PREPARED/REVIEWED BY SBIAA STAFF.

ACCEPTED BY JENNIFER FARRIS, ASSISTANT SECRETARY OF THE COMMISSION

Jennifer Farris

December 20, 2022

Subject: Request for Proposal

Reference: City Creek Bypass Channel Repair and Maintenance, Phase 1

Background

The City Creek Bypass Channel (CCBC) conveys rainwater runoff from the area north of the San Bernardino International Airport (SBIAA) and ultimately discharges into the Santa Ana River. SBIAA owns and maintains a portion of the channel that is one mile in length and averages 32 feet in width at the earthen bottom between Victoria Avenue and Sterling Ave in the City of San Bernardino. The CCBC sides are unreinforced 3-inch-thick concrete originally placed in the 1950's. There are 19 energy dissipaters that lower the elevation by 19 feet from east to west. There is in place a 5-year permit from the Santa Ana Regional Water Board to enter the channel for the repair and maintenance of the CCBC. SBIAA is in the first year of the permit.

SBIAA is requesting that the Contractor submit a completed Schedule of Prices (attached below). The SOP includes some essential work items and two alternate locations for consideration. The Contractor shall provide prices for all locations and Alternative items. The successful bid will be the total cost for all items. The successful Contractor shall then submit the Addendum to Purchase Order and required Insurance information after notification.

General Work Requirements

The Channel requires repairs and maintenance to keep the channel work as intended. Included below are the requirements for each location and general work required for the entire channel length (5,280 feet). The length of each area is approximate only. The width of each panel is 12.3'. Contractor shall field verify all dimensions.

Contractor shall access the channel primarily from the south side of 3rd Street. Some areas located on the south side of the channel can be accessed through the existing chain link fenced area. Contractor is responsible for removing and reinstalling the fence in kind if this option is used.

When working from 3rd Street, the Contractor shall be aware that any damage to existing landscaping or irrigation systems is the responsibility of the Contractor.

Contractor shall develop a plan for entering the channel locations for review prior to beginning the work. Prior contractors used the existing channel bottom to build a means of placing construction

equipment into the Channel. If this option is used, the disturbed silt shall be removed and disposed. The amount removed shall be a part of the total amount of soil noted below.

Maintenance and Repair Permit Requirements:

1. Per the attached Permit, since we are disturbing less than one acre, a SWPPP is not required.
2. Contractor shall adhere to all other permit requirements, except as noted in 6 below.
3. All concrete removed from the channel shall be legally disposed of offsite at a location chosen by the Contractor. SBIAA cannot provide a location to accept the removed soil.
4. No silt can be stockpiled in the channel.
5. No equipment shall be left in the channel bottom at the end of each day.
6. The Agency shall perform a bird survey to determine if any endangered species of raptor are nesting. This will occur two weeks prior to the beginning of construction. If any birds are found, there may be some modification to this plan so as not to disturb the nest.

Construction notes related to the attached photos:

1. Saw cut, remove, and legally dispose of the entire channel wall between the marked area.
2. Saw cut, remove, and legally dispose of the required area needed to install only the horizontal wall component. This is for the installation of the top edge component shown on the attached detail is **not** included in this work.
3. Relocate existing riprap needed to install the vertical wall component and safely return the riprap to its original location. Do not damage any of the existing wall components.
4. ~~Add new riprap to this location. Riprap will be ½ ton rough cut rock. This will not include any rock under the ½ ton limit. Any smaller pieces will not be accepted.~~
5. Provide new sand underneath each removed panel and compact to 90%.

Attachment A: Project Details and Specifications
Attachment B: Addendum to PO and Company Information Sheets

Specific Work Requirement:

Area 1: Location is approximately 100 feet west of Hangar way on 3rd Street. This sidewall has completely failed and undermined subsequent panels. Contractor will remove the existing wall between the marked area lines and replace in its entirety and include a new vertical section. Approximate length of work is 38 feet. Construction notes 1, 3, 5.



Area 1 Undermined



Area 1:



Area 2 is located opposite of Area 1 and is also approximately 38 feet in length.

Construction notes: 1, 3, 5.



Area 3 is located between Hangar way and Victoria Avenue. The concrete wall is new and must be protected in place. The additional work is 18 feet long and includes the installation of the horizontal wall component at toe per the attached details. Construction notes; 2, 3, and 5.



Area 4 is located between Hangar way and Victoria Avenue. The concrete wall shall be removed and replaced in its entirety. The additional work is approximately 15 feet long and includes the installation of the horizontal wall component at toe per the attached details.

Construction notes; 1, 3, and 5.



Area 5 is located at the east end of the channel near Victoria Avenue. The concrete wall is new and must be protected in place. The additional work is approximately 20 feet long and includes the installation of the vertical wall component per the attached details.

Construction notes; 2, 3, and 5



Area 6 is located opposite of Area 5. The concrete wall is new and must be protected in place. The additional work is 22 feet long and includes the installation of the vertical wall component at toe the attached details. Construction notes; 2, 3, and 5.



Area 7 is located just west of Area 5. The concrete wall is new and must be protected in place. The additional work is 24 feet long and includes the installation of the horizontal wall component at toe per the attached details. Construction notes; 2, 3, and 5.



Area 8 is located adjacent to Area 6. The concrete wall shall be removed and replaced in its entirety. The additional work is approximately 15 feet long and includes the installation of the horizontal wall component at toe per the attached details. Construction notes; 1, 3, and 5.



Additional Work Items:

1. Clear and Grub entire channel. This work includes removing and legally disposing all trash, debris, and plants from the 5,280 foot long by 32-foot-wide channel. Also remove all debris from the inlet and outlet structures.
2. Apply Roundup to all concrete joints where plants are growing.
3. Remove and legally dispose of 400 yards of excess silt from the Channel.

Additional Information:

Bid Submission: Submit the Construction Bid to Ms. Jennifer Farris, Clerk of the Board, 1601 E 3rd Street, San Bernardino International Airport, San Bernardino, CA no later than 10:00 a.m. on Tuesday January 10, 2023.

Clarifications:

Any project questions, please submit to Jim Harris in writing at jharris@sbdairport.com no less than five days prior the bid opening.

Site Walk:

SCHEDULE OF PRICES

Area	Description	Area	Cost per SQ/FT	Total Cost
1	Provide all Labor, Material, and Equipment to modify the Channel Side Slope Panel as noted for the lump sum price of:	467 sq. ft.		
1a	Provide all Labor, Material, and Equipment to modify the Channel Vertical Panel Addition as noted for the lump sum price of:	134 sq. ft.		
2	Provide all Labor, Material, and Equipment to modify the Channel Side Slope Panel as noted for the lump sum price of:	467 sq. ft		
2a	Provide all Labor, Material, and Equipment to modify the Channel Vertical Panel Addition as noted for the lump sum price of:	134 sq. ft.		
3a	Provide all Labor, Material, and Equipment to modify the Channel Vertical Panel Addition as noted for the lump sum price of:	54 sq. ft.		
4	Provide all Labor, Material, and Equipment to modify the Channel as noted for the lump sum price of:	185 sq. ft.		
4a	Provide all Labor, Material, and Equipment to modify the Channel Vertical Panel Addition as noted for the lump sum price of:	45 sq. ft.		
5a	Provide all Labor, Material, and Equipment to modify the Channel Vertical Panel Addition as noted for the lump sum price of:	60 sq. ft.		
6a	Provide all Labor, Material, and Equipment to modify the Channel Vertical Panel Addition as noted for the lump sum price of:	66 sq. ft.		

A	Provide all Labor, Material, and Equipment to remove 400 cubic yards of silt for the lump sum price of:			
B	Provide all Labor, Material, and Equipment to Clear and Grub including debris removal for the lump sum price of:			
C	Provide all Labor, Material, and Equipment to apply weed killer to all concrete joints in the channel where weeds are growing for the lump sum price of:			
	TOTAL COST FOR BASE BID:			

PROJECT ALTERNATES

Area	Description	Area	Cost per SQ/FT	Total Cost
7	Provide all Labor, Material, and Equipment to modify the Channel Side Slope Panel as noted for the lump sum price of:			
8	Provide all Labor, Material, and Equipment to modify the Channel Side Slope Panel as noted for the lump sum price of:	185 sq. ft.		
8a	Provide all Labor, Material, and Equipment to modify the Channel Vertical Panel Addition as noted for the lump sum price of:	54 sq. ft.		
	TOTAL COST FOR ALTERNATES:			

TOTAL BID (Base Bid + Alternates): _____

SUBMITTED BY: _____ _____

COMPANY SIGNATURE

January 30, 2023

Subject: Request for Proposal

Reference: City Creek Bypass Channel Repair and Maintenance, Phase 1 - Rebid

Background

The City Creek Bypass Channel (CCBC) conveys rainwater runoff from the area north of the San Bernardino International Airport (SBIAA) and ultimately discharges into the Santa Ana River. SBIAA owns and maintains a portion of the channel that is one mile in length and averages 32 feet in width at the earthen bottom between Victoria Avenue and Sterling Ave in the City of San Bernardino. The CCBC sides are unreinforced 3-inch-thick concrete originally placed in the 1950's. There are 19 energy dissipaters that lower the elevation by 19 feet from east to west. There is in place a 5-year permit from the Santa Ana Regional Water Board to enter the channel for the repair and maintenance of the CCBC. SBIAA is in the first year of the permit.

SBIAA is requesting that the Contractor submit a completed Schedule of Prices (attached below). The SOP includes some essential work items and two alternate locations for consideration. The Contractor shall provide prices for all locations and Alternative items. The successful bid will be the total cost for all items. The successful Contractor shall then submit the Addendum to Purchase Order and required Insurance information after notification.

General Work Requirements

The Channel requires repairs and maintenance to keep the channel work as intended. Included below are the requirements for each location and general work required for the entire channel length (5,280 feet). The length of each area is approximate only. The width of each panel is 12.3' or as noted below. Contractor shall field verify all dimensions.

Contractor shall access the channel primarily from the south side of 3rd Street. One area has access only from the south side of 3rd Street. Some areas located on the south side of the channel can be accessed through the existing chain link fenced area. Contractor is responsible for removing and reinstalling the fence in kind if this option is used.

When working from 3rd Street, the Contractor shall be aware that any damage to existing landscaping or irrigation systems is the responsibility of the Contractor.

Contractor shall develop a plan for entering the channel locations for review prior to beginning the work. Prior contractors used the existing channel bottom to build a means of placing construction equipment into the Channel. If this option is used, the disturbed silt shall be removed and disposed.

Maintenance and Repair Permit Requirements:

1. Per the attached Permit, since we are disturbing less than one acre, a SWPPP is not required. See Attachment C.
2. Contractor shall adhere to all other permit requirements, except as noted in 6 below.
3. All concrete removed from the channel shall be legally disposed of offsite at a location chosen by the Contractor. SBIAA cannot provide a location to accept the removed soil.
4. No silt can be stockpiled in the channel.
5. No equipment shall be left in the channel bottom at the end of each day.
6. The Agency shall perform a bird survey to determine if any endangered species of raptor are nesting. This will occur two weeks prior to the beginning of construction. If any birds are found, there may be some modification to this plan so as not to disturb the nest.

Construction notes related to the attached photos:

1. Saw cut, remove, and legally dispose of the entire channel wall between the marked area.
2. Provide new sand underneath each removed panel and compact to 90%.

Attachment A: Project Details and Specifications
Attachment B: Addendum to PO and Company Information Sheets
Attachment C: Permit

Specific Work Requirement:

Area 1: Location is approximately 100 feet west of Hangar way on 3rd Street. This sidewall has completely failed and undermined subsequent panels. Contractor will remove the existing wall between the marked area lines and replace in its entirety. Approximate length of work is 38 feet. Construction notes 1 and 2.

Area 1



Area 1 Undermined



Area 1:



Area 2 is located opposite of Area 1 and is also approximately 38 feet in length.

Construction notes: 1 and 2.



Area 4 is located between Hangar way and Victoria Avenue. The concrete wall shall be removed and replaced in its entirety. The additional work is approximately 15 feet long and includes the installation of the horizontal wall component at toe per the attached details.

Construction notes; 1 and 2.



Additional Work Items:

1. Clear and Grub entire channel. This work includes removing and legally disposing all trash, debris, and plants from the 5,280 foot long by 32-foot-wide channel. Also remove all debris from the inlet and outlet structures.
2. Apply Roundup to all concrete joints where plants are growing.

Additional Information:

Bid Submission: Submit the Construction Bid to Ms. Jennifer Farris, Clerk of the Board, 1601 E 3rd Street, San Bernardino International Airport, San Bernardino, CA no later than 10:00 a.m. on Tuesday February 9, 2023.

Clarifications:

Any project questions, please submit to Jim Harris in writing at jharris@sbdairport.com no less than five days prior the bid opening.

Site Walk: If you have already walked the site, there is no need to attend. If you need to see the area, meet at the southwest corner of 3rd Street and Victoria Avenue On Friday February 3rd at 1000.

SCHEDULE OF PRICES

Area	Description	Area	Cost per SQ/FT	Total Cost
1	Provide all Labor, Material, and Equipment to modify the Channel Side Slope Panel as noted for the lump sum price of:	467 sq. ft.		
2	Provide all Labor, Material, and Equipment to modify the Channel Side Slope Panel as noted for the lump sum price of:	467 sq. ft		
4	Provide all Labor, Material, and Equipment to modify the Channel as noted for the lump sum price of:	185 sq. ft.		
A	Provide all Labor, Material, and Equipment to Clear and Grub including debris removal for the lump sum price of:	Lump Sum		
B	Provide all Labor, Material, and Equipment to apply weed killer to all concrete joints in the channel where weeds are growing for the lump sum price of:	Lump Sum		
	TOTAL COST FOR BASE BID:			

TOTAL BID (Base Bid): _____

SUBMITTED BY: _____ _____

COMPANY SIGNATURE

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 11** **PRESENTER: Stephen McIntyre, Airport Maintenance Manager**

SUBJECT: APPROVE AMENDMENT NO. 1 TO THE PROFESSIONAL SERVICES AGREEMENT WITH JBT AEROTECH CORPORATION IN THE AMOUNT OF $53,499.16, FOR A TOTAL NOT TO EXCEED CONTRACT AMOUNT OF $150,000.00 TO PERFORM TERMINAL PASSENGER BOARDING BRIDGE (PBB) REPAIRS

SUMMARY

On November 17, 2022, the San Bernardino International Airport Authority (SBIAA) Commission approved a professional services agreement with JBT AeroTech Corporation to provide preventative maintenance and as-needed repairs for three (3) PBB's in an amount not to exceed $96,500.84. Continual daily use, and routine inspections have identified additional repairs necessary to continue the safe and reliable use of the PBB's supporting passenger aircraft boardings at SBD International Airport. This additional funding is anticipated to cover the cost of repairs necessary at this time.

RECOMMENDED ACTION(S)

Approve Amendment No. 1 to the Professional Services Agreement with JBT AeroTech Corporation in the amount of $53,499.16, for a total not to exceed contract amount of $150,000.00; and authorize the Chief Executive Officer to execute all related documents.

FISCAL IMPACT

None. In the event that the proposed budget adjustment is approved on today's agenda, funding for this contract will be included in the then adjusted San Bernardino International Airport Authority (SBIAA) Fiscal Year 2022-2023 Budget in the General Fund, Account 50443 - Contract Services-Airline Support in the amount of $197,208 of which $106,855 is available to fund Amendment No. 1 with JBT AeroTech Corporation.

PREPARED BY:	Jonathan Galvan
CERTIFIED AS TO AVAILABILITY OF FUNDS:	Mark Cousineau
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

The San Bernardino International Airport Authority (SBIAA) is responsible for ongoing maintenance and repair of the Domestic Terminal Passenger Boarding Bridges (PBB's – aka: Jet Bridges). PBB's are a critical component to passenger boarding operations at SBD and require ongoing inspection and routine maintenance to ensure safe and reliable operation. JBT AeroTech Corporation is an industry leader in servicing specialized airport equipment that includes PBB's. To ensure the integrity of each PBB, a proactive approach through routine, scheduled inspection and servicing intervals serves to minimize unforeseen maintenance issues and limits a potential cause of airline delays.

Staff recommends that the SBIAA Commission approve the above recommended action.

Attachments:

1. None.

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 12** **PRESENTER: Mark Gibbs, Director of Aviation**

SUBJECT: APPROVE AMENDMENT NO. 1 TO THE PROFESSIONAL SERVICES AGREEMENT WITH LSA ASSOCIATES, INC. IN THE AMOUNT OF $47,000 FOR A TOTAL NOT TO EXCEED CONTRACT AMOUNT OF $97,000

SUMMARY

The San Bernardino International Airport Authority (SBIAA) contracts with LSA Associates, Inc. (LSA) to provide a certified airport wildlife biologist, as required by the Federal Aviation Administration (FAA) for commercial service airports. Wildlife activity occuring at SBD this fical year has required additional services from LSA to analyze and track wildlife activity on and in the vicinity of the airport in accordance with FAA requirements. This activity was not anticipated at the beginning of Fiscal Year 2022-2023.

RECOMMENDED ACTION(S)

Approve Amendment No. 1 with LSA Associates, Inc. in the amount of $47,000 for a total not to exceed contract amount of $97,000; and authorize the Chief Executive Officer to execute all related documents.

FISCAL IMPACT

None. Funding for these services is included in the adjusted San Bernardino International Airport Authority (SBIAA) Fiscal Year 2022-2023 Budget in the General Fund, Account 50439 - Wildlife Management in the amount of $216,005 of which $157,735 is available to fund this amendment.

PREPARED BY:	Jonathan Galvan
CERTIFIED AS TO AVAILABILITY OF FUNDS:	Mark Cousineau
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

Aircraft activity at SBD International Airport (SBD) has continued to increase in recent years. Balancing growth and mitigating wildlife events through implementation of the Airport's FAA approved Wildlife Hazard Management Plan is required to minimize hazards to aircraft. Over the last year, SBD has experienced an increase in wildlife activity which produced a triggering event for a Wildlife Hazard Assessment described in FAR Part 139.337 b (3) as: An air carrier aircraft experiences an engine ingestion of wildlife. This event occurred and staff has engaged LSA Associates, Inc. to undertake this required 12-month wildlife study.

As the study comes to a close, additional funding to complete the assessment is needed. The FAA will be included to ensure the assessment meets FAA standards and produces actionable items that can be implemented to further the objective of airfield safety for all users.

Staff recommends the Commission approve the above recommended action.

Attachments:

1. None.

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 13** **PRESENTER: Mark Gibbs, Director of Aviation**

SUBJECT: APPROVE CHANGE ORDER NO. 3 WITH GOSS CONSTRUCTION COMPANY, INCORPORATED WHICH CARRIES A COST IMPACT OF $153,876.63 FOR THE RUNWAY 6/24 JOINT AND SPALL REPAIR PROJECT

SUMMARY

Change Order No. 3 incorporates the cost impacts associated with runway access limitations to work hours, weather delay related impacts, traffic control, and low temperature paint substitution. Due to the notable temperature decrease during night work that brought temperatures below paint application specifications, a paint substitution was necessary to ensure the paint properly adheres to the runway during application.

RECOMMENDED ACTION(S)

Approve Change Order No. 3 with Goss Construction Company, Incorporated with a cost impact of $153,876.63 for the Runway 6/24 Joint and Spall Repair Project; and authorize the Chief Executive Officer to execute all related documents.

FISCAL IMPACT

None. In the event that Change Order No. 3 is approved, the new contract amount would be $4,074,242.49, which would not require an adjustment to the approved Fiscal Year 2022-2023 Budget in the Capital Project Fund, Account 52603 - Runway Joint Seal Project in the amount of $4,183,012.00.

PREPARED BY:	Kevin Vejar
CERTIFIED AS TO AVAILABILITY OF FUNDS:	Mark Cousineau
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

On May 25, 2022, the San Bernardino International Airport Authority (SBIAA) Commission authorized the award of a contract with Goss Construction Co. Inc. for the Runway 6/24 Joint and Spall Repair Project. This project provides for the re-construction of expansion joints between each of the concrete panels throughout the runway. The project includes repair of minor concrete spalls prior to reconstructing the expansion joints, and re-painting the runway upon successful completion of the joint and spall repair work.

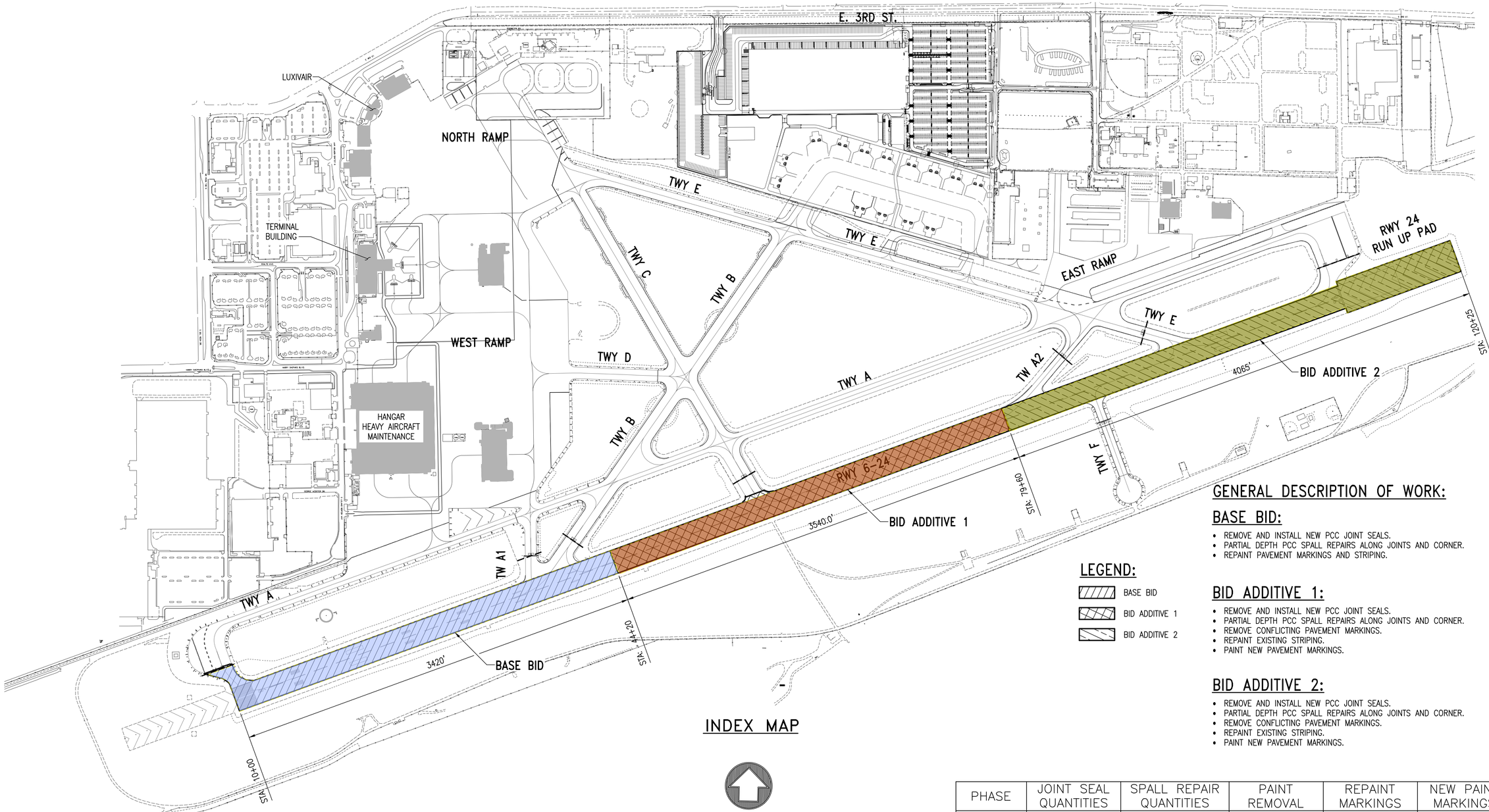
During the course of construction, staff determined that runway access limitations on work hours, weather delay related impacts, traffic control, and low temperature paint was needed to properly complete the necessary scope of work, in consideration of runway availability and utility for airfield tenants.

- Original Project Amount $ 3,834,388.40
- Executed Change Order No. 1 $ (5,500.95)
- Executed Change Order No. 2 $ 91,478.41
- Proposed Change Order No. 3 $ 153,876.63
- New Project Amount $ 4,074,242.49

Staff recommends the Commission approve the above recommended action.

Attachments:

1. Site Map.
2. Proposed Change Order No. 3.



INDEX MAP

0 200' 400' 800'

SCALE: 1"=400'

GENERAL DESCRIPTION OF WORK:

BASE BID:

- REMOVE AND INSTALL NEW PCC JOINT SEALS.
- PARTIAL DEPTH PCC SPALL REPAIRS ALONG JOINTS AND CORNER.
- REPAINT PAVEMENT MARKINGS AND STRIPING.

LEGEND:

- BASE BID
- BID ADDITIVE 1
- BID ADDITIVE 2

BID ADDITIVE 1:

- REMOVE AND INSTALL NEW PCC JOINT SEALS.
- PARTIAL DEPTH PCC SPALL REPAIRS ALONG JOINTS AND CORNER.
- REMOVE CONFLICTING PAVEMENT MARKINGS.
- REPAINT EXISTING STRIPING.
- PAINT NEW PAVEMENT MARKINGS.

BID ADDITIVE 2:

- REMOVE AND INSTALL NEW PCC JOINT SEALS.
- PARTIAL DEPTH PCC SPALL REPAIRS ALONG JOINTS AND CORNER.
- REMOVE CONFLICTING PAVEMENT MARKINGS.
- REPAINT EXISTING STRIPING.
- PAINT NEW PAVEMENT MARKINGS.

PHASE	JOINT SEAL QUANTITIES	SPALL REPAIR QUANTITIES	PAINT REMOVAL	REPAINT MARKINGS	NEW PAINT MARKINGS
BASE BID	78,650 LF	170 SQUARE FEET	1,200 SF	70,000 SF	2,300 SF
ADDITIVE 1	77,350 LF	300 SQUARE FEET	1,000 SF	32,000 SF	2,000 SF
ADDITIVE 2	79,700 LF	160 SQUARE FEET	4,000 SF	58,000 SF	29,000 SF

MARK	REVISIONS	BY	APPR.	DATE

REGISTERED PROFESSIONAL ENGINEER — DUKE S. YOUNG — No. C69209 — Exp. 6/30/22 — STATE OF CALIFORNIA — 01/1/20

PREPARED BY

AECOM
999 TOWN & COUNTRY ROAD
ORANGE, CALIFORNIA 92868
T: 714.567.2400
F: 714.567.2729
www.aecom.com

SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY

APPROVED BY: _____ JULY 2020 DATE

APPROVED BY: _____ DATE

SAN BERNARDINO INTERNATIONAL AIRPORT

RUNWAY 6-24 JOINT AND SPALL REPAIR PROJECT

OVERALL PROJECT PLAN

DATE: JULY 1, 2020

DRAWING NUMBER: C-101

SHEET NUMBER: 5 OF 23

DWG Name: C:\Temp\PDFs\60632796_SBD Rwy Repair\900-CAD_GIS\910_CAD\PCC Runway Slab Seal\Sheets\Civil\ C-101.dwg
CAD Generated: Jul 01, 2020 - 2:52pm User: gallardoa

Inland Valley Development Agency
San Bernardino International Airport Authority
1601 E. 3rd Street
San Bernardino, CA 92408
Phone: (909) 382-4100 FAX: (909) 382-4106

Change Order 3 to Contract: Runway 624 Joint and Spall Repair Project, dated May 25, 2022 by and between: San Bernardino International Airport Authority (Agency), and Goss Construction Company Inc. (Contractor), the Contractor is hereby directed to make the following change in contract work:

ITEM	DESCRIPTION OF CHANGES	TYPE	AMOUNT
3-1	Low Temperature Paint Substitution	**Add**	**$14,663.40**
3-2	Funding for Additional Traffic Control	**Add**	**$28,843.43**
3-3	Additional Costs for Change in Work Hours and Pull Back	**Add**	**$90,369.80**
3-4	Weather Delay	**Add**	**$20,000.00**
	Total Cost Change Order 3.		**$153,876.63**

Original Contract Amount:	**$3,834,388.40**
Previously Approved Change Order No. 1:	**$5,500.95**
Previously Approved Change Order No. 2:	**$91,478.41**
Proposed Change Order No. 3:	**$153,876.63**
New Contract Amount:	$4,074,242.49

ACCEPTANCE:
Contractor accepts the terms and conditions stated above as full and final settlement of any and all claims arising from this Change Order and acknowledges that the compensation (time and cost) set forth in the Change Order comprises the total compensation due for the work or change defined in the Change Order, including all impact on any unchanged work. By signing the Change Order, the Contractor acknowledges and agrees that the stipulated compensation includes payment for all Work contained in the Change Order, plus all payment for the interruption of schedules, extended overhead costs, delay, and all impact, ripple effect or cumulative impact on all other Work under this Contract. The signing of the Change Order acknowledges full mutual accord and satisfaction for the change, and that the time and/or cost under the Change Order constitute the total equitable adjustment owed the Contractor as a result of the change. The Contractor agrees to waive all rights, without exception or reservation of any kind whatsoever, to file any further claim or request for equitable adjustment of any type, for any reasonably foreseeable cause that shall arise out of or as a result of this Change Order or the impact of this Change Order on the remainder of the Work under this contract. Contractor agrees to perform the above-described work in accordance with the above terms and in compliance with applicable Sections of the Contract Documents. This Change Order is hereby agreed to, accepted and approved, all in accordance with the General Conditions of the Contract Documents.

Accepted by Contractor _____ Date: _____

Approved by Agency _____ Date: _____

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 14** **PRESENTER: Mark Gibbs, Director of Aviation**

SUBJECT: APPROVE AWARD OF A PROFESSIONAL SERVICES AGREEMENT WITH AECOM TECHNICAL SERVICES, INC. IN AN AMOUNT NOT TO EXCEED $132,723 FOR ENGINEERING DESIGN SERVICES FOR THE AOA VEHICLE ACCESS ROAD PROJECT

SUMMARY

Approval of the proposed agreement with AECOM Technical Services, Inc. (AECOM) would provide engineering design services that include development of roadway paving, grading, and striping, plans and specification bid packages for the AOA Vehicle Access Road Project in accordance with Federal Aviation Administration (FAA) requirements.

RECOMMENDED ACTION(S)

Approve the award of a Professional Services Agreement with AECOM Technical Services, Inc. for engineering design services for the AOA Vehicle Access Road Project in an amount not to exceed $132,723; and authorize the Chief Executive Officer to execute all related documents subject to technical and conforming changes as approved by legal counsel.

FISCAL IMPACT

None. In the event that the proposed budget adjustment is approved on today's agenda, funding for this project will be included in the then adjusted San Bernardino International Airport Authority (SBIAA) Fiscal Year 2022-2023 Budget in the Capital Project Fund, Account FAA2301 - FAA-AOA Vehicle Access Road in the amount of $132,723.

PREPARED BY:	Mark Gibbs
CERTIFIED AS TO AVAILABILITY OF FUNDS:	Mark Cousineau
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

On October 26, 2022, the SBIAA Commission approved staff to solicit Statements of Qualifications (SOQ's) for design engineering services and construction management services for this project. At this time, the proposed action is for approval of engineering design (only) with AECOM in order to further refine the effort necessary for construction management services during the future construction phase of this project. Construction management services from this solicitation may be brought back to the SBIAA Commission for consideration at a later date.

The bid notice for this project was advertised in newspapers of general circulation that included: San Bernardino County Sun, Riverside Press Enterprise, the El Chicano, and the Black Voice on multiple dates for each newspaper. The bid notice was posted to the agency website and sent to six (6) specialized airport engineering design firms familiar with Federal Aviation Administration (FAA) requirements, and known to provide the requested services. From this solicitation, one (1) proposal was received by the Assistant Secretary of the Commission on February 13, 2023, from AECOM. This proposal was found to be responsive to the SOQ, and the firm qualified to perform the work in accordance with FAA professional services requirements.

As required by the FAA for grant funded professional service contracts, an Independent Fee Estimate (IFE) will be performed by a separate neutral firm familiar with this type of work to analyze the project scope and fee for services. Dependent upon the resultant IFE, the final fee may be an amount less than $132,723, but not more than the amount approved by the SBIAA Commission.

Staff recommends the SBIAA Commission approve the above actions.

Attachments:

1. Form of Professional Services Agreement.

SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY

AGREEMENT FOR PROFESSIONAL SERVICES

AOA Vehicle Access Road Project

This AGREEMENT FOR PROFESSIONAL SERVICES (the "Agreement" or "Contract") is made and entered into as of _____2023, by and between the SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY ("SBIAA"), a joint powers authority created pursuant to Government Code Sections 6500, et seq., and _____ (the "Consultant"). SBIAA and the Consultant are jointly the "Parties," and each entity is separately a "Party," to this Agreement.

NOW, THEREFORE, IN CONSIDERATION OF THE MUTUAL PROMISES CONTAINED IN THIS AGREEMENT AND FOR OTHER GOOD AND VALUABLE CONSIDERATION, THE RECEIPT OF WHICH IS ACKNOWLEDGED, THE PARTIES AGREE, AS FOLLOWS:

1. SUPERVISION OF CONSULTANT. The SBIAA staff personnel identified in Exhibit "B," shall be responsible for the supervision of any work to be performed by the Consultant or by any other consultants, subcontractors, or sub consultants retained by the Consultant to perform work for the SBIAA under this Agreement. The work to be performed by the Consultant is set forth in the Scope of Services attached to this Agreement as Exhibit "A" and incorporated herein by this reference. SBIAA reserves the right to approve or disapprove the Consultant's selection of any or all: employees; agents; contractors, subcontractors; and sub consultants to be used by the Consultant in the fulfillment of Scope of Services, during the term of this Agreement. The Consultant shall not undertake any work under the terms of this Agreement, unless authorized to do so by one of the SBIAA staff personnel identified in Exhibit "B." SBIAA staff personnel that are not identified in Exhibit "B" are not authorized to request services from the Consultant.

2. TERM OF AGREEMENT. The term of this Agreement shall commence on the date first appearing in this Agreement and will terminate on _____, 2023 or upon the completion of the work described in the Scope of Services, whichever occurs first, unless earlier terminated, as provided in this Agreement.

3. SCOPE OF CONSULTANT SERVICES. The SBIAA retains the Consultant to provide the professional services, or work, set forth in the Scope of Services. The Consultant agrees to perform the work set forth in the Scope of Services attached to this agreement as Exhibit "A" and incorporated into this Agreement by this reference. Consultant also agrees to adhere to the schedule depicted in Exhibit "A" and incorporated into this Agreement by reference. Additionally, the Consultant shall ensure that its

primary contact person, or designee for its performance of such work, shall be available to the SBIAA staff via electronic communication (such as email, pager, cell phone, or telephone) on a 24-hour per day basis during the Term of this Agreement.

4. PAYMENT BY SBIAA FOR WORK PERFORMED BY CONSULTANT.

A. The SBIAA shall compensate the Consultant for the performance of the work as described in the "Scope of Services", Exhibit "A", in an amount not-to-exceed _____ as detailed in the Fee Schedule, Exhibit "C".

B. The compensation designated in Section 4.A shall be the "Total Fee" for the performance of the work and the delivery of the final work product materials, as set forth in the "Scope of Services". The Total Fee shall include, but not be limited to, the salaries of all subcontractors retained by the Consultant to perform work pursuant to this Agreement and shall be inclusive of all costs and expenses incurred for mileage, travel, graphics, telephone, printing, fax transmission, postage, copies and such other expenses related to completion of these tasks as set forth in the "Scope of Services".

C. The Consultant shall invoice the SBIAA for work performed by the Consultant, as set forth in the "Scope of Services", Exhibit "A", each calendar month on a percentage completed basis during the term of the project. SBIAA shall pay all undisputed portions of Consultant's invoices within thirty (30) days of receipt.

D. Each invoice of the Consultant shall clearly set forth the names of the individual personnel of the Consultant and any individual subconsultants or subcontractors utilized by the Consultant, during the time period covered by the invoice, a detailed description of the professional services rendered by each named individual during such time period, the respective hourly rates of each named individual and the actual time expended by each named individual. Each invoice of the Consultant shall be accompanied by copies of all third party invoices for other direct costs incurred by the Consultant during such time period and payment releases from subcontractors retained by Consultant for all such work performed by subcontractors thirty (30) days preceding the date of the invoice.

E. Other services which the SBIAA may in its discretion request the Consultant to perform in writing which are not covered within the Scope of Services shall be paid for by the SBIAA at the applicable hourly rate schedule and cost and expense schedules for such work as set forth in Exhibit "C".

F. The Consultant shall submit invoices for processing and payment by the SBIAA under this Agreement to:

San Bernardino International Airport Authority
Attention: Director of Development

1601 East Third Street, Suite 100
San Bernardino, California 92408

5. NOTICE TO PROCEED. Upon execution of this Agreement, at the sole discretion of the SBIAA, the SBIAA will issue a written Notice to Proceed to the Consultant as a formal means to engage the Consultant to perform the specific work required accomplish the "Scope of Services" described in Section 3. Consultant shall not commence the performance of any work described above until provided a written Notice to Proceed from the SBIAA authorizing said work.

6. RECORDS RETENTION. All records, maps, photographs, field notes, data, information, specifications, computations, certified payroll records, correspondence or other documents generated by or on behalf of the Consultant for performance of the work set forth in the "Scope of Services", supporting documents, and all other records pertaining to the use of funds paid to the Consultant under this Agreement shall be retained by the Consultant at the San Bernardino International Airport during the performance of the "Scope of Services". Upon the completion of the "Scope of Services", the Consultant shall surrender all said documents to the SBIAA.

7. INDEMNIFICATION AND DEFENSE.

A. Consultant shall defend, indemnify and hold harmless the SBIAA, its members, officers, employees, representatives, attorneys and agents from and against any and all actions, suits, appeals, proceedings, claims, demands, losses, costs, and expenses, including legal costs and attorney fees, to the extent arising from the willful or negligent acts or omissions of the Consultant, its officers, employees, subcontractors, subconsultants and agents, in the performance of work under the Scope of Services. This indemnification obligation of Consultant shall not apply to the extent that any such action, suit, proceeding, claim, demand, loss, cost, or expense is determined by a court of competent jurisdiction to be caused by the willful conduct or negligence of the SBIAA, its officers or employees.

B. Consultant shall also defend the SBIAA, its members, officers, employees, representatives, attorneys and agents from and against any and all actions, suits, appeals, proceedings, claims, demands, losses, costs, and expenses, including legal costs and attorney fees, arising from the performance of the Consultant under this Agreement, including but not limited to acts or omissions normally covered by comprehensive, general or automobile liability insurance.

C. The indemnification provided by the Consultant may not be construed or interpreted as in any way restricting, limiting, or modifying Consultant's insurance obligations or other obligations under this Agreement and is independent of the such insurance obligations and other obligations. Compliance by the Consultant with the

insurance requirements and other obligations under this Agreement shall not in any way restrict, limit, or modify its indemnification obligations under this Agreement.

D. SBIAA shall be entitled to recover its reasonable attorney fees and court costs incurred in enforcing these indemnification clauses.

E. These indemnification clauses shall survive the expiration or earlier termination of this Agreement until all claims against SBIAA involving any of the indemnified matters are fully, finally, and absolutely barred by applicable statutes of limitations.

F. The insurance required or carried by Consultant under the provisions of Section 8 of this Agreement shall not be deemed to limit the Consultant's duty of indemnity and defense which arises under this Section 7.

8. INSURANCE. The Consultant shall maintain insurance coverage as set forth in this Section 8 throughout the term of this Agreement. The Consultant shall maintain insurance policies issued by an insurance company or companies authorized or approved to do business in the State of California and that maintain during the term of the policy a "General Policyholder's Rating" of at least A(v), as set forth in the then most current edition of "Best's Insurance Guide," as follows:

A. The Consultant, and each of its subcontractors, shall maintain comprehensive automobile liability insurance of not less than $5,000,000 combined single limit per occurrence for each vehicle leased or owned by the Consultant or its subcontractors and used in performing work under this Agreement.

B. The Consultant, and each of its subcontractors, shall maintain Workers' Compensation insurance or a state-approved Self-Insurance Program in an amount and form to meet all applicable requirements of the Labor Code of the State of California, including Employer's Liability with $1,000,000 limits, covering all persons providing services and all risks to such persons under this Contract.

C. The Consultant shall maintain an insurance policy covering liability for errors and omissions of the Consultant in performing the Scope of Services in an amount of not less than $5,000,000 per claim and in the aggregate.

D. Consultant shall maintain liability insurance written on an "occurrence" policy form, covering personal and bodily injury, death and property damage, arising out of or relating to services provided by Consultant under this Agreement, with single limit coverage of at least $5,000,000 per occurrence with an aggregate limit of at least $5,000,000. Such policy of liability insurance shall name the SBIAA its officers, officials, employees, and agents as additional insureds and such liability insurance policy shall not contain any intra-insured exclusions as between insured

persons or organizations. The liability coverage shall include all coverage typically provided by a Broad Form Comprehensive General Liability Endorsement and shall further include contractual liability coverage.

E. Concurrent with the execution of this Agreement and prior to the commencement of any work by the Consultant, the Consultant shall deliver to the SBIAA certificates evidencing the existence of the insurance coverage required by this Agreement, which coverage shall remain in full force and effect continuously throughout the term of this Agreement. Each policy of insurance, except workers compensation insurance and errors and omissions insurance, that Consultant purchases in satisfaction of the insurance requirements of this Agreement, shall name the SBIAA as an additional insured. Additionally, each policy of insurance that Consultant purchases in satisfaction of the insurance requirements of this Agreement shall provide that the policy may not be cancelled, terminated or modified in scope of coverage as it applies to the services to be provided by Consultant under this Agreement, except upon thirty (30) days prior written notice to the SBIAA.

F. Consultant shall be the first or primary named insured under each insurance policy.

G. Consultant's liability insurance policy (ies) shall be endorsed as needed to provide cross-liability coverage for Consultant and SBIAA and to provide severability of interests.

H. Consultant's liability policy(ies) shall be endorsed as needed to provide that the insurance afforded by those policies to the additional insured is primary and that all insurance carried by SBIAA is strictly excess and secondary and shall not contribute with Consultant's liability insurance.

I. The coverage afforded to SBIAA as an additional insured under Consultant's liability insurance policy(ies) must be at least as broad as that afforded to the Consultant and may not contain any terms, conditions, exclusions, or limitations applicable to SBIAA that do not apply to the Consultant.

J. Consultant's liability insurance coverage may be provided by a combination of primary, excess, and umbrella policies, but those policies must be absolutely concurrent in all respects regarding the coverage afforded by the policies. The coverage of any excess or umbrella policy must be at least as broad as the coverage of the primary policy.

K. The insurance requirements set forth above are independent of Consultant's exculpation, indemnification, and other obligations under this Agreement and shall not be construed or interpreted in any way to restrict, limit, or modify those

exculpation, indemnification, or other obligations or to limit the Consultant's liability under this Agreement.

L. Except for Professional Liability Insurance for Errors and Omissions Coverage, the consultant agrees to cause the insurance companies issuing their respective insurance to waive any subrogation rights that those companies may have against SBIAA (their additional insured). If the waivers of subrogation are not contained in the insurance policies, Consultant waives any right it may have against SBIAA on account of any loss or damage to the extent that the loss or damage is insured under their respective insurance policies.

9. OWNERSHIP AND REUSE OF DOCUMENTS AND OTHER MATERIALS AND INFORMATION. All maps, photographs, data, information, reports, drawings, specifications, computations, notes, renderings, correspondence or other documents generated by or on behalf of the Consultant for performance of the work set forth in the Scope of Services shall not be subject to copyright in the United States or any other country, and will be available for examination by the public, and shall be the property of SBIAA, as of the time of their preparation and upon payment by the SBIAA, and shall be delivered to SBIAA upon written request to the Consultant.

10. PRESS RELEASES. Press or news releases, including photographs or public announcements, or confirmation of the same related to the work to be performed by the Consultant under this Agreement shall only be made by the Consultant with the prior written consent of the SBIAA.

11. CONFIDENTIALITY OF MATERIALS AND INFORMATION. The Consultant shall keep confidential all reports, notes, observations, information, and data acquired or generated in performance of the work set forth in the Scope of Services, all of which SBIAA deems to be confidential. None of such confidential materials or information may be made available to any person or entity, public or private, without prior written consent of SBIAA.

12. DEFAULT AND REMEDIES.

A. Either party may terminate this Agreement for cause if the other party fails to fulfill its obligations that are essential to the completion of the work per the terms and conditions of the Agreement. The party initiating the termination action must allow the breaching party an opportunity to dispute or cure the breach.

B. The terminating party must provide the breaching party seven (7) days advance written notice of its intent to terminate the Agreement. The notice must

specify the nature and extent of the breach, the conditions necessary to cure the breach, and the effective date of the termination action. The rights and remedies in this clause are in addition to any other rights and remedies provided by law or under this Agreement.

C. **Termination by SBIAA**: The SBIAA may terminate this Agreement in whole or in part, for the failure of the Consultant to:

1. Perform the services within the time specified in this contract or by SBIAA approved extension;

2. Make adequate progress so as to endanger satisfactory performance of the Project; or

3. Fulfill the obligations of the Agreement that are essential to the completion of the Project.

Upon receipt of the notice of termination, the Consultant must immediately discontinue all services affected unless the notice directs otherwise. Upon termination of the Agreement, the Consultant must deliver to SBIAA all data, surveys, models, drawings, specifications, reports, maps, photographs, estimates, summaries, and other documents and materials prepared by or for Consultant under this Agreement, whether complete or partially complete.

SBIAA agrees to make just and equitable compensation to the Consultant for satisfactory work completed up through the date the Consultant receives the termination notice. Compensation will not include anticipated profit on non-performed services.

SBIAA further agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

If, after finalization of the termination action, SBIAA determines the Consultant was not in default of the Agreement, the rights and obligations of the parties shall be the same as if the SBIAA issued the termination for the convenience of SBIAA.

D. **Termination by Consultant**: The Consultant may terminate this Agreement in whole or in part, if SBIAA:

1. Defaults on its obligations under this Agreement;

2. Fails to make payment to the Consultant in accordance with the terms of this Agreement;

3. Suspends the Project for more than 180 days due to reasons beyond the control of the Consultant.

Upon receipt of a notice of termination from the Consultant, SBIAA agrees to cooperate with Consultant for the purpose of terminating this Agreement or portion thereof, by mutual consent. If SBIAA and Consultant cannot reach mutual agreement on the termination settlement, the Consultant may, without prejudice to any rights and remedies it may have, proceed with terminating all or parts of this Agreement based upon the SBIAA's breach of the contract.

In the event of termination due to SBIAA's breach, the Consultant is entitled to invoice SBIAA and to receive full payment for all services performed or furnished in accordance with this Agreement and all justified reimbursable expenses incurred by the Consultant through the effective date of termination action. SBIAA agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

E. In no event shall either Party be liable to the other for any indirect, special, or consequential damage regardless of whether such claim of liability arises in contract or in tort.

13. TERMINATION OF AGREEMENT FOR CONVENIENCE

A. SBIAA may, by written notice to the Consultant, terminate this Agreement for its convenience and without cause or default on the part of Consultant. Upon receipt of the notice of termination, except as explicitly directed by the SBIAA, the Contractor must immediately discontinue all services affected.

B. Upon termination of the Agreement The Consultant must deliver to SBIAA all data, surveys, models, drawings, specifications, reports, maps, photographs, estimates, summaries, and other documents and materials prepared by or for Consultant under this contract, whether complete or partially complete.

C. SBIAA agrees to make just and equitable compensation to the Consultant for satisfactory work completed up through the date the Consultant receives the termination notice. Compensation will not include anticipated profit on non-performed services.

D. SBIAA further agrees to hold Consultant harmless for errors or omissions in documents that are incomplete as a result of the termination action under this clause.

14. NOTICES. All notices shall be in writing. Notices shall be presented in person or by certified or registered United States Mail, return receipt requested, postage prepaid or by overnight delivery by a nationally recognized delivery service to the addresses set forth below. Notice presented by mail shall be deemed effective on the third business day following the deposit of the notice with the United States Postal Service. This Section 14 shall not prevent the Parties from giving notice by personal

service or telephonically verified fax transmission, which shall be deemed effective upon actual receipt of such personal service or telephonic verification. Either Party may change its address for receipt of written notice by notifying the other Party in writing of a new address for delivering notice to such Party.

CONSULTANT: _____
_____
_____

SBIAA: San Bernardino International Airport Authority
Attention: Chief Executive Officer
1601 East Third Street, Suite 100
San Bernardino, CA 92408

15. COMPLIANCE WITH LAW. Notwithstanding any contrary provision in any exhibit to this Agreement, Consultant shall comply with all local, state, and federal laws, including, but not limited to, environmental acts, rules and regulations applicable to the work to be performed by the Consultant under this Agreement. Consultant shall maintain all necessary licenses and registrations for the lawful performance of the work required of the Consultant under this Agreement.

16. EQUAL OPPORTUNITY CLAUSE During the performance of this contract, the Consultant agrees as follows:

A. The Consultant will not discriminate against any employee or applicant for employment because of race, color, religion, sex, or national origin. The Consultant will take affirmative action to ensure that applicants are employed, and that employees are treated during employment, without regard to their race, color, religion, sex, sexual orientation, gender identify, or national origin. Such action shall include, but not be limited to, the following: employment, upgrading, demotion, or transfer; recruitment or recruitment advertising; layoff, or termination; rates of pay or other forms of compensation; and selection for training, including apprenticeship. The Consultant agrees to post in conspicuous places, available to employees and applicants for employment, notices to be provided setting forth the provisions of this nondiscrimination clause.

B. The Consultant will, in all solicitations or advertisements for employees placed by or on behalf of the Consultant, state that all qualified applicants will receive considerations for employment without regard to race, color, religion, sex, or national origin.

C. The Consultant will send to each labor union or representative of workers with which it has a collective bargaining agreement or other contract or understanding, a notice to be provided advising the said labor union or workers' representatives of the Consultant's commitments under this section and shall post copies of the notice in conspicuous places available to employees and applicants for employment.

D. The Consultant will comply with all provisions of Executive Order 11246 of September 24, 1965, and of the rules, regulations, and relevant orders of the Secretary of Labor.

E. The Consultant will furnish all information and reports required by Executive Order 11246 of September 24, 1965, and by rules, regulations, and orders of the Secretary of Labor, or pursuant thereto, and will permit access to his books, records, and accounts by the administering agency and the Secretary of Labor for purposes of investigation to ascertain compliance with such rules, regulations, and orders.

F. In the event of the Consultant's noncompliance with the nondiscrimination clauses of this contract or with any of the said rules, regulations, or orders, this contract may be canceled, terminated, or suspended in whole or in part and the Consultant may be declared ineligible for further Government contracts or federally assisted construction contracts in accordance with procedures authorized in Executive Order 11246 of September 24, 1965, and such other sanctions may be imposed and remedies invoked as provided in Executive Order 11246 of September 24, 1965, or by rule, regulation, or order of the Secretary of Labor, or as otherwise provided by law.

G. The Consultant will include the portion of the sentence immediately preceding paragraph (A) and the provisions of paragraphs (A) through (G) in every subcontract or purchase order unless exempted by rules, regulations, or orders of the Secretary of Labor issued pursuant to section 204 of Executive Order 11246 of September 24, 1965, so that such provisions will be binding upon each subcontractor or vendor. The Consultant will take such action with respect to any subcontract or purchase order as the administering agency may direct as a means of enforcing such provisions, including sanctions for noncompliance*: Provided, however*, that in the event a contractor becomes involved in, or is threatened with, litigation with a subcontractor or vendor as a result of such direction by the administering agency the Consultant may request the United States to enter into such litigation to protect the interests of the United States.

17. CONSULTANT AND EACH SUBCONTRACTOR ARE INDEPENDENT CONTRACTORS. The Consultant shall at all times during the performance of any work described in the Scope of Services, or when providing other services to SBIAA, be

deemed to be an independent contractor. Neither the Consultant nor any of its subcontractors shall at any time or in any manner represent that it or any of its employees are employees of the SBIAA or any member agency of the SBIAA. The SBIAA shall not be requested or ordered to assume any liability or expense for the direct payment of any salary, wage or benefit to any person employed by Consultant or its subcontractors to perform any item of work or services.

18. SEVERABILITY. Each section of this Agreement shall be construed as a separate and independent covenant and agreement. If any term or provision of this Agreement or its application to certain circumstances shall be declared invalid or unenforceable, the remainder of this Agreement, or the application of such term or provision to circumstances other than those to which it is declared invalid or unenforceable, shall not be affected, and each term and provision of this Agreement shall be valid and enforceable to the fullest extent permitted by law.

19. ENTIRE AGREEMENT. This Agreement constitutes the entire agreement between the Parties. This Agreement supersedes all prior negotiation, discussions and agreements between the Parties concerning the subject matters covered in it. The Parties intend this Agreement to be the final expression of their agreement with respect to the subjects covered in it, and that it is a complete and exclusive statement of such terms.

20. AMENDMENT OR MODIFICATION. This Agreement may only be modified or amended by a document that is duly approved and executed by each of the Parties. Any such modification or amendment shall be valid, binding and legally enforceable only if in written form and executed by both Parties, following all necessary approvals and authorizations for such execution.

21. GOVERNING LAW AND CHOICE OF VENUE. This Agreement shall be governed by the laws of California. Any legal action arising from or related to this Agreement shall be brought in the Superior Court of California in and for the County of San Bernardino or in the United States District Court, Central District of California.

22. NON-WAIVER. Failure of either Party to enforce any provision of this Agreement shall not constitute a waiver of the right to compel enforcement of the same provision or any remaining provisions of this Agreement.

23. ASSIGNMENT. This Agreement may not be assigned by the Consultant without the prior written consent of the SBIAA.

24. REPRESENTATIONS OF PERSONS EXECUTING AGREEMENT. The persons executing this Agreement warrant that they are duly authorized to execute this Agreement on behalf of and bind the Party each purports to represent.

25. EXECUTION IN COUNTERPARTS. This Agreement may be executed in one or more counterparts, each of which will constitute a duplicate original.

26. EFFECTIVENESS OF AGREEMENT AS TO THE SBIAA. This Agreement shall not be binding on the SBIAA, until approved by the governing board of the SBIAA and signed by an authorized representative of the Consultant, approved as to form by SBIAA counsel, and executed by the authorized representatives of SBIAA.

27. CONFLICTS OF INTEREST.

A. Consultant represents that it has no interests adverse to the SBIAA or its individual member entities, at the time of execution of this Agreement. Consultant agrees that, during the term of this Agreement, the Consultant shall not enter into any agreement or acquire any interests detrimental or adverse to the SBIAA or its individual member entities.

B. Additionally, Consultant represents and warrants to SBIAA that Consultant and any partnerships, individual persons or any other party or parties comprising Consultant, together with each subcontractor that may be retained to perform services pursuant to this Agreement, do not have and, during the term of this Agreement, shall not acquire any property ownership interest, business interests, professional employment relationships, contractual relationships of any nature or any other financial arrangements relating to the SBIAA, property over which the SBIAA has jurisdiction or any members or staff of the SBIAA that have not been previously disclosed in writing to SBIAA, and that any such property ownership interests, business interests, professional employment relationships, contractual relationships or any nature or any other financial arrangements will not adversely affect the ability of the Consultant to perform the services to SBIAA as set forth in this Agreement.

28. NON-EXCLUSIVITY. This Agreement shall not create an exclusive relationship between the SBIAA and the Consultant for the services set forth in Exhibit "A" or any similar or related services. The SBIAA may, during the term of this Agreement, contract with other consultants for the performance of the same, similar or related services as those that may be performed by the Consultant under this Agreement. This Agreement only sets forth the terms upon which any such services will be provided to the SBIAA by the Consultant, as set forth in this Agreement.

29. CIVIL RIGHTS ACT OF 1964, TITLE VI – CONTRACTOR CONTRACTUAL REQUIREMENTS. During the performance of this Agreement, the Consultant, for itself, its assignees and successors in interest agrees as follows:

A. Compliance with Regulations. The Contractor (hereinafter includes consultants) will comply with the Title VI List of Pertinent Nondiscrimination Acts and Authorities, as they may be amended from time to time, which are herein incorporated by reference and made a part of this contract.

B. Nondiscrimination. The Consultant, with regard to the work performed by it during the Agreement, shall not discriminate on the grounds of race, color, or national origin in the selection and retention of subcontractors, including procurements of materials and leases of equipment. The Consultant shall not participate either directly or indirectly in the discrimination prohibited by the Nondiscrimination Acts and Authorities, including employment practices when the contract covers any activity, project, or program set forth in Appendix B of 49 CFR part 21.

C. Solicitations for Subcontracts, Including Procurements of Materials and Equipment. In all solicitations either by competitive bidding or negotiation made by the Consultant for work to be performed under a subcontract, including procurements of materials or leases of equipment, each potential subcontractor or supplier shall be notified by the Consultant of the contractor's obligations under this Agreement and the Nondiscrimination Acts and Authorities on the grounds of race, color, or national origin.

D. Information and Reports. The Consultant shall provide all information and reports required by the Acts, the Regulations, and directives issued pursuant thereto and will permit access to its books, records, accounts, other sources of information, and its facilities as may be determined by the SBIAA or the Federal Aviation Administration (FAA) to be pertinent to ascertain compliance with such Nondiscrimination Acts and Authorities and instructions. Where any information required of a Consultant is in the exclusive possession of another who fails or refuses to furnish this information, the Consultant shall so certify to the SBIAA or the FAA, as appropriate, and shall set forth what efforts it has made to obtain the information.

E. Sanctions for Noncompliance. In the event of the Consultant's noncompliance with the non-discrimination provisions of this Contract, the SBIAA shall impose such Contract sanctions as it or the FAA may determine to be appropriate, including, but not limited to:

1. Withholding of payments to the Consultant under the Contract until the Consultant complies, and/or

2. Cancellation, termination, or suspension of the Contract, in whole or in part.

F. Incorporation of Provisions. The Consultant shall include the provisions of paragraphs A through E in every subcontract, including procurements of materials and leases of equipment, unless exempt by the Acts, the Regulations, and directives issued pursuant thereto. The Consultant shall take such action with respect to any subcontract or procurement as the SBIAA or the FAA may direct as a means of enforcing such provisions including sanctions for noncompliance. Provided, however, that in the event a Consultant becomes involved in, or is threatened with, litigation with a subcontractor or supplier because of such direction, the Consultant may request the SBIAA to enter into such litigation to protect the interests of the SBIAA and, in addition, the Consultant may request the United States to enter into such litigation to protect the interests of the United States.

30. AIRPORT AND AIRWAY IMPROVEMENT ACT OF 1982, SECTION 520 - GENERAL CIVIL RIGHTS PROVISIONS. The Contractor agrees to comply with pertinent statutes, Executive Orders and such rules as are promulgated to ensure that no person shall, on the grounds of race, creed, color, national origin, sex, age, or disability be excluded from participating in any activity conducted with or benefiting from Federal assistance.

This provision binds the Contractor and subcontractors from the bid solicitation period through the completion of the contract. This provision is in addition to that required by Title VI of the Civil Rights Act of 1964.

31. DISADVANTAGED BUSINESS ENTERPRISES.

A. **Contract Assurance (§26.13)** - The Consultant or subcontractor shall not discriminate on the basis of race, color, national origin, or sex in the performance of this Agreement. The Consultant shall carry out applicable requirements of 49 CFR Part 26 in the award and administration of DOT assisted contracts. Failure by the Consultant to carry out these requirements is a material breach of this Agreement, which may result in the termination of this Agreement or such other remedy, as the recipient deems appropriate, which may include, but is not limited to:

1. Withholding monthly progress payments;

2. Assessing sanctions;

3. Liquidated damages; and/or

4. Disqualifying the Contractor from future bidding as non-responsible.

B. **Prompt Payment (§26.29)** - The prime Consultant agrees to pay each subcontractor under this prime Contract for satisfactory performance of its Contract no later than 30 days from the receipt of each payment the prime Consultant receives from the SBIAA**.** The prime Consultant agrees further to return retainage payments to each subcontractor within 30 days after the subcontractor's work is satisfactorily completed. Any delay or postponement of payment from the above referenced time frame may occur only for good cause following written approval of the SBIAA**.** This clause applies to both DBE and non-DBE subcontractors.

32. LOBBYING AND INFLUENCING FEDERAL EMPLOYEES. Consultant certifies by signing this Agreement, to the best of his or her knowledge and belief, that:

A. No Federal appropriated funds have been paid or will be paid, by or on behalf of the Consultant, to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with the awarding of any Federal contract, the making of any Federal grant, the making of any Federal loan, the entering into of any cooperative agreement, and the extension, continuation, renewal, amendment, or modification of any Federal contract, grant, loan, or cooperative agreement.

B. If any funds other than Federal appropriated funds have been paid or will be paid to any person for influencing or attempting to influence an officer or employee of any agency, a Member of Congress, an officer or employee of Congress, or an employee of a Member of Congress in connection with any Federal grant, the Consultant shall complete and submit Standard Form-LLL, “Disclosure of Lobby Activities,” in accordance with its instructions.

C. The undersigned shall require that the language of this certification be included in the award documents for all sub-awards at all tiers (including subcontracts, subgrants, and contracts under grants, loans, and cooperative agreements) and that all sub-recipients shall certify and disclose accordingly.

This certification is a material representation of fact upon which reliance was placed when this transaction was made or entered into. Submission of this certification is a prerequisite for making or entering into this transaction imposed by section 1352, title 31, U.S. Code. Any person who fails to file the required certification shall be subject to a civil penalty of not less than $10,000 and not more than $100,000 for each such failure.

33. ACCESS TO RECORDS AND REPORTS. The Consultant shall maintain an acceptable cost accounting system. The Consultant agrees to provide the SBIAA, the Federal Aviation Administration and the Comptroller General of the United States or any of their duly authorized representatives access to any books, documents, papers, and

records of the Consultant which are directly pertinent to the specific Contract for the purpose of making audit, examination, excerpts and transcriptions. The Consultant agrees to maintain all books, records and reports required under this Contract for a period of not less than three years after final payment is made and all pending matters are closed.

34. COPELAND "ANTI-KICKBACK" ACT. Consultant must comply with the requirements of the Copeland "Anti-Kickback" Act (18 USC 874 and 40 USC 3145), as supplemented by Department of Labor regulation 29 CFR part 3. Consultant and subcontractors are prohibited from inducing, by any means, any person employed on the project to give up any part of the compensation to which the employee is entitled. The Consultant and each subcontractor must submit to the SBIAA, a weekly statement on the wages paid to each employee performing on covered work during the prior week. SBIAA must report any violations of the Act to the Federal Aviation Administration.

35. RIGHTS TO INVENTIONS. All rights to inventions and materials generated under this Agreement are subject to regulations issued by the FAA and the SBIAA of the Federal grant under which this Agreement is executed.

36. TRADE RESTRICTION CLAUSE. By submission of an offer, the Consultant/Offeror certifies that with respect to this solicitation and any resultant contract, the Offeror:

A. is not owned or controlled by one or more citizens of a foreign country included in the list of countries that discriminate against U.S. firms published by the Office of the United States Trade Representative (USTR);

B. has not knowingly entered into any contract or subcontract for this project with a person that is a citizen or national of a foreign country included on the list of countries that discriminate against U.S. firms as published by the USTR; and

C. has not entered into any subcontract for any product to be used on the Federal project that is produced in a foreign country included on the list of countries that discriminate against U.S. firms published by the USTR.

This certification concerns a matter within the jurisdiction of an agency of the United States of America and the making of a false, fictitious, or fraudulent certification may render the maker subject to prosecution under Title 18 USC Section 1001.

The Offeror/Consultant must provide immediate written notice to SBIAA if the Offeror/Consultant learns that its certification or that of a subcontractor was erroneous when submitted or has become erroneous by reason of changed circumstances. The Consultant must require subcontractors provide immediate written notice to the Consultant if at any time it learns that its certification was erroneous by reason of changed circumstances.

Unless the restrictions of this clause are waived by the Secretary of Transportation in accordance with 49 CFR 30.17, no contract shall be awarded to an Offeror/ Consultant or subcontractor:

1. who is owned or controlled by one or more citizens or nationals of a foreign country included on the list of countries that discriminate against U.S. firms published by the USTR or

2. whose subcontractors are owned or controlled by one or more citizens or nationals of a foreign country on such USTR list or

3. who incorporates in the public works project any product of a foreign country on such USTR list.

Nothing contained in the foregoing shall be construed to require establishment of a system of records in order to render, in good faith, the certification required by this provision. The knowledge and information of a contractor is not required to exceed that which is normally possessed by a prudent person in the ordinary course of business dealings.

The Offeror/ Consultant agrees that, if awarded a contract resulting from this solicitation, it will incorporate this provision for certification without modification in all lower tier subcontracts. The Consultant may rely on the certification of a prospective subcontractor that it is not a firm from a foreign country included on the list of countries that discriminate against U.S. firms as published by USTR, unless the Offeror/ Consultant has knowledge that the certification is erroneous.

This certification is a material representation of fact upon which reliance was placed when making an award. If it is later determined that the Consultant or subcontractor knowingly rendered an erroneous certification, the Federal Aviation Administration (FAA) may direct through the SBIAA cancellation of the contract or subcontract for default at no cost to the SBIAA or the FAA.

37. CERTIFICATION REGARDING DEBARMENT AND SUSPENSION (NON-PROCUREMENT) – TITLE 2 CFR PART 180 & TITLE 2 CFR PART 1200. The contract agreement that ultimately results from this solicitation is a “covered transaction” as

defined by Title 2 CFR Part 180. Bidder must certify at the time they submit their proposal that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction. The bidder with the successful bid further agrees to comply with Title 2 CFR Part 1200 and Title 2 CFR Part 180, Subpart C by administering each lower tier subcontract that exceeds $25,000 as a "covered transaction".

CERTIFICATE REGARDING DEBARMENT AND SUSPENSION (BIDDER OR OFFEROR)

By submitting a bid/proposal under this solicitation, the bidder or offeror certifies that neither it nor its principals are presently debarred or suspended by any Federal department or agency from participation in this transaction.

CERTIFICATION LOWER TIER CONTRACTS REGARDING DEBARMENT

The successful bidder, by administering each lower tier subcontract that exceeds $25,000 as a "covered transaction", must verify each lower tier participant of a "covered transaction" under the project is not presently debarred or otherwise disqualified from participation in this federally assisted project. The successful bidder will accomplish this by:

1. Checking the System for Award Management at website: http://www.sam.gov;

2. Collecting a certification statement similar to the Certificate Regarding Debarment and Suspension (Bidder or Offeror), above;

3. Inserting a clause or condition in the covered transaction with the lower tier contract.

If the FAA later determines that a lower tier participant failed to disclose to a higher tier participant that it was excluded or disqualified at the time it entered the covered transaction, the FAA may pursue any available remedy, including suspension and debarment of the non-compliant participant.

38. ENERGY CONSERVATION REQUIREMENTS. The Consultant and all subcontractors agree to comply with mandatory standards and policies relating to energy efficiency that are contained in the state energy conservation plan issued in compliance with the Energy Policy and Conservation Act (42 USC 6201*et seq*).

39. FEDERAL FAIR LABOR STANDARDS ACT (FEDERAL MINIMUM WAGE). All contracts and subcontracts that result from this solicitation incorporate by reference the provisions of 29 CFR part 201, the Federal Fair Labor Standards Act (FLSA), with the same force and effect as if given in full text. The FLSA sets minimum wage, overtime pay, recordkeeping, and child labor standards for full and part-time workers.

The Consultant has full responsibility to monitor compliance to the referenced statute or regulation. The Consultant must address any claims or disputes that arise from this requirement directly with the U.S. Department of Labor – Wage and Hour Division.

40. OCCUPATIONAL SAFETY AND HEALTH ACT OF 1970. All contracts and subcontracts that result from this solicitation incorporate by reference the requirements of 29 CFR Part 1910 with the same force and effect as if given in full text. The employer must provide a work environment that is free from recognized hazards that may cause death or serious physical harm to the employee. The employer retains full responsibility to monitor its compliance and their subcontractor's compliance with the applicable requirements of the Occupational Safety and Health Act of 1970 (20 CFR Part 1910). The employer must address any claims or disputes that pertain to a referenced requirement directly with the U.S. Department of Labor – Occupational Safety and Health Administration.

41. TEXTING WHEN DRIVING. In accordance with Executive Order 13513, "Federal Leadership on Reducing Text Messaging While Driving" (10/1/2009) and DOT Order 3902.10 "Text Messaging While Driving" (12/30/2009), FAA encourages recipients of Federal grant funds to adopt and enforce safety policies that decrease crashes by distracted drivers, including policies to ban text messaging while driving when performing work related to a grant or sub-grant.

In support of this initiative, SBIAA encourages the Consultant to promote policies and initiatives for its employees and other work personnel that decrease crashes by distracted drivers, including policies that ban text messaging while driving motor vehicles while performing work activities associated with the project. The Consultant must include the substance of this clause in all sub-tier contracts exceeding $3,500 that involve driving a motor vehicle in performance of work activities associated with the project.

42. FAA GRANT ASSURANCES. The FAA grant assurance covenants as are hereby made applicable to the Consultant for all work and services performed by the Consultant as set forth in the "Scope of Services".

43. CONFLICT OF INTEREST – SBIAA REPRESENTATIVES. Consultant acknowledges that the SBIAA uses ethical business practices in the selection of its Consultants and in its other contracting practices. Consultant certifies that neither it nor its employees or agents have, with an intent to establish or maintain a business relationship with the SBIAA or any department thereof, provided any gift or sponsorship having a value of more than a fifty and 00/100 dollar ($50.00) value, in total or aggregated total, to: (i) any person working on behalf of the SBIAA involved in the negotiation of this Agreement; (ii) any member of any department of the SBIAA procuring items or services from the Consultant under this Agreement; and/or (iii) any person with authority to negotiate this or any other contract on behalf of the SBIAA. Further, Consultant certifies that neither it nor its employees or agents shall at any time in the future, with an intent to establish or maintain a business relationship with the SBIAA or any department thereof, provide any gift or sponsorship having more than a fifty and 00/100 dollar ($50.00) value, in total or aggregated total, to: (i) any person working on behalf of the SBIAA involved in the negotiation of this Agreement; (ii) any member of any department of the SBIAA procuring items or services from the Consultant under this Agreement; and/or (iii) any person with authority to negotiate this or any other contract on behalf of the SBIAA.

The Consultant acknowledges the obligations as set forth in this Section 43 by the initials of the agent signing on behalf of the Consultant appearing below:

_____
(initial here)

44. CONFLICT OF INTEREST – CAMPAIGN CONTRIBUTIONS. The Consultant represents and warrants that it has reviewed and is familiar with the governing provisions of the California Government Code and the regulations promulgated there under by the Fair Political Practices Commission ("FPPC") regarding campaign contributions to appointed members of the governing body of the SBIAA. The Consultant further represents and warrants that neither the Consultant, nor any number of individuals employed by the Consultant or other contractors and Subcontractors of the Consultant, or any others acting on behalf of or in concert with the Consultant, have contributed to: (i) any member of the governing body of the SBIAA, (ii) any election committee of any member of the governing body of the SBIAA, (iii) any "friends of" election committee of any member of the governing body of the SBIAA, or (iv) any political action committee ("PAC") representing, acting with or on behalf of any member of the governing body of the SBIAA, an amount in the aggregate of more than Two Hundred Fifty and 00/100 Dollars ($250.00) within the period commencing twelve (12) months prior to the date of the official action by the governing body of the SBIAA to approve this Agreement. The Consultant covenants and warrants that for the period of time commencing as of the date of the approval of this Agreement by the governing body of the SBIAA and for ninety (90) calendar days thereafter, similarly no such campaign and/or fund-raising contributions aggregating in excess of $250.00 from the Consultant and other contractors and Subcontractors of the Consultant, or others action on behalf of or in concert with the

Consultant, when aggregated with campaign contributions paid pursuant to the preceding sentence for the prior twelve (12) month period, shall be made to any member of the governing body who participated in the official action to approve this Agreement. Such $250.00 limitation shall apply for the period of time commencing twelve (12) months prior to the date of the official action of the governing body of the SBIAA to approve this Agreement and for ninety (90) calendar days thereafter and all such campaign contributions within said fifteen (15) month period of time shall be aggregated for purposes of the FPPC rules and regulations. Any breach of this Section 19, whether intentional or unintentional, shall be deemed to be a material breach of this Agreement.

The Consultant acknowledges the obligations as set forth in this Section 44 by the initials of the agent signing on behalf of the Consultant appearing below:

_____
(initial here)

45. FAIR POLITICAL PRACTICES COMMISSION FORMS AND FILINGS. The provisions of this Section 45 shall apply to the Consultant, its employees and/or agents providing or supervising the services to the SBIAA as set forth in this Agreement. The Consultant acknowledges and represents and warrants that the Consultant is aware of the requirements of the Fair Political Practices Commission ("FPPC") of the State of California, including the statutory requirements and the rules and regulations promulgated pursuant thereto, and the obligations and duties of third party contractors such as the Consultant to complete and timely submit the required FPPC reporting forms.

By the execution and acceptance of this Agreement with the SBIAA, the Consultant hereby agrees that no later than the first day of April (April 1) of each calendar year, or any other date as designated by SBIAA legal counsel or the Clerk of the Board, the Consultant shall submit, and/or cause its employees and/or agents providing or supervising the services to the SBIAA as set forth in this Agreement to submit, to the Clerk of the Board any reporting form or filing published and/or required by the FPPC which SBIAA legal counsel or the Clerk of the Board should deem appropriate and so request of the Consultant, properly and fully completed in accordance with the instructions of the FPPC, which instructions shall be provided to Consultant by the Clerk of the Board, identifying the appropriate and necessary economic disclosures of the Consultant, its employees and/or agents who perform services by, through or on behalf of the Consultant to the SBIAA pursuant to this Agreement.

Further, the Consultant recognizes that it is neither the duty nor the responsibility of the SBIAA, its staff and/or legal counsel to review or seek additional information from the Consultant as to any information submitted to the SBIAA in the required FPPC reporting forms. The Consultant further understands that the Consultant, its principals, shareholders, and certain employees and/or agents could be subjected to fines and civil penalties imposed by the FPPC in the event any documentation submitted

by the Consultant is deemed to be inadequate either by the FPPC or any other State or local prosecutorial office. Under some circumstances, such inadequacies for failure to comply with the FPPC requirements may also involve criminal sanctions.

The Consultant shall further defend, indemnify and hold harmless the SBIAA, its officers, employees, representatives, and agents, for any and all violations by the Consultant regarding FPPC reporting compliance requirements that result in any liability or financial loss to the SBIAA, its officers, employees, representatives, and agents, by reason of the failure of the Consultant to comply with the provisions of this Section 45, including staff costs, attorney fees and any and all other costs as may be incurred by the SBIAA, its officers, employees, representatives, and agents due to any alleged violations of the FPPC reporting requirements by the Consultant.

The Consultant acknowledges the obligations as set forth in this Section 45 by the initials of the agent signing on behalf of the Consultant appearing below:

_____
(initial here)

46. CLEAN AIR AND WATER POLLUTION CONTROL. Consultant agrees to comply with all applicable standards, orders, and regulations issued pursuant to the Clean Air Act (42 USC § 740-7671q) and the Federal Water Pollution Control Act as amended (33 USC § 1251-1387). The Consultant agrees to report any violation to SBIAA immediately upon discovery. SBIAA assumes responsibility for notifying the Environmental Protection Agency (EPA) and the Federal Aviation Administration.

Consultant must include this requirement in all subcontracts that exceeds $150,000.

47. CONTRACT WORKHOURS AND SAFETY STANDARDS ACT REQUIREMENTS. The following provisions are applicable to Contracts that exceed $100,000 and employs laborers, mechanics, watchmen, and guards. This includes members of survey crews and exploratory drilling operations:

A. Overtime Requirements.

No Consultant or subcontractor contracting for any part of the contract work which may require or involve the employment of laborers or mechanics shall require or permit any such laborer or mechanic, including watchmen and guards, in any workweek in which he or she is employed on such work to work in excess of forty hours in such workweek unless such laborer or mechanic receives compensation at a rate not less than one and

one-half times the basic rate of pay for all hours worked in excess of forty hours in such workweek.

B. Violation; Liability for Unpaid Wages; Liquidated Damages.

In the event of any violation of the clause set forth in paragraph A above, the Consultant and any subcontractor responsible therefor shall be liable for the unpaid wages. In addition, such Consultant and subcontractor shall be liable to the United States (in the case of work done under contract for the District of Columbia or a territory, to such District or to such territory), for liquidated damages. Such liquidated damages shall be computed with respect to each individual laborer or mechanic, including watchmen and guards, employed in violation of the clause set forth in paragraph A above, in the sum of $10 for each calendar day on which such individual was required or permitted to work in excess of the standard workweek of forty hours without payment of the overtime wages required by the clause set forth in paragraph A above.

C. Withholding for Unpaid Wages and Liquidated Damages.

The Federal Aviation Administration or the SBIAA shall upon its own action or upon written request of an authorized representative of the Department of Labor withhold or cause to be withheld, from any monies payable on account of work performed by the Consultant or subcontractor under any such contract or any other Federal contract with the same prime contractor, or any other Federally-assisted contract subject to the Contract Work Hours and Safety Standards Act, which is held by the same prime contractor, such sums as may be determined to be necessary to satisfy any liabilities of such contractor or subcontractor for unpaid wages and liquidated damages as provided in the clause set forth in paragraph B above.

D. Subcontractors.

The Consultant or subcontractor shall insert in any subcontracts the clauses set forth in paragraphs A through D and also a clause requiring the subcontractor to include these clauses in any lower tier subcontracts. The prime contractor shall be responsible for compliance by any subcontractor or lower tier subcontractor with the clauses set forth in paragraphs A through D of this section.

48. PROHIBITION OF SEGREGATED FACILITIES.

A. The Consultant agrees that it does not and will not maintain or provide for its employees any segregated facilities at any of its establishments, and that it does not and will not permit its employees to perform their services at any location under its control where segregated facilities are maintained. The Consultant agrees that

a breach of this clause is a violation of the Equal Employment Opportunity clause in this Contract.

B. “Segregated facilities,” as used in this clause, means any waiting rooms, work areas, rest rooms and wash rooms, restaurants and other eating areas, time clocks, locker rooms and other storage or dressing areas, parking lots, drinking fountains, recreation or entertainment areas, transportation, and housing facilities provided for employees that are segregated by explicit directive or are in fact segregated on the basis of race, color, religion, sex, or national origin because of written or oral policies or employee custom. The term does not include separate or single-user rest rooms or necessary dressing or sleeping areas provided to assure privacy between the sexes.

C. The Consultant shall include this clause in every subcontract and purchase order that is subject to the Equal Employment Opportunity clause of this Contract.

DRAFT

SAN BERNARDINO INTERNATIONAL
AIRPORT AUTHORITY,
a joint powers authority

Date: _____ By: _____
Michael P. Burrows
Chief Executive Officer

ATTEST:

By: _____
Assistant Secretary of the Commission

Approved as to form and legal content:

Mirau, Edwards, Cannon, Lewin & Tooke, LLP
A Limited Liability Partnership

By:_____
Michael Lewin

CONSULTANT

Date: _____ By: _____

DRAFT

EXHIBIT A

SCOPE OF SERVICES

FOR

AOA VEHICLE ACCESS ROAD

DRAFT

EXHIBIT B

SUPERVISORY STAFF PERSONNEL

SBIAA Staff:

Chief Executive Officer
Director of Aviation
Director of Development
Airport Manager

DRAFT

EXHIBIT C

FEE SCHEDULES

DRAFT

TO: San Bernardino International Airport Authority Commission

DATE: February 22, 2023

ITEM NO: 15

PRESENTER: Mark Gibbs, Director of Aviation

SUBJECT: APPROVE CHANGE ORDER NO. 2 WITH GRIFFITH COMPANY WHICH CARRIES A COST IMPACT OF $344,358.76 FOR THE TAXIWAY SHOULDER IMPROVEMENT PROJECT

SUMMARY

Change Order No. 2 addresses sub-base material in a portion of the Taxiway A1 shoulder section, fillet section at the west end of Taxiway A, additional asphalt material and related work to tie-in electrical vault grades and taxiway intersections. The additional work required on Taxiway A1 included removing 6" of native material, and placing crushed aggregate base. The fillet section at the west end of Taxiway A also required sub-base material to properly construct the taxiway shoulder at this location.

RECOMMENDED ACTION(S)

Approve Change Order No. 2 with Griffith Company with a cost impact of $344,358.76 for the Taxiway Shoulder Improvement Project; and authorize the Chief Executive Officer to execute all related documents.

FISCAL IMPACT

None. In the event Change Order No. 2 is approved, the new contract amount would be $4,010,531.50, which would not requre an adjustment to the approved Fiscal Year 2022-2023 Budget in the Capital Project Fund, Account 52270 - Taxiway Shoulder Improvement Project in the amount of $4,332,270.00.

PREPARED BY:	Kevin Vejar
CERTIFIED AS TO AVAILABILITY OF FUNDS:	Mark Cousineau
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	Michael Burrows

BACKGROUND INFORMATION

On November 24, 2021, the San Bernardino International Airport Authority (SBIAA) Commission authorized Staff to advertise construction plans for this project. Project plans and specifications were advertised as a Notice Inviting Bids on the SBIAA website and notices published in four (4) local newspapers in accordance with SBIAA Policies and Procedures, and Federal Aviation Administration (FAA) Procurement Requirements. Two (2) qualified contractors submitted sealed bids on January 11, 2022, of which Griffith Company submitted the most competitive bid proposal for this project.

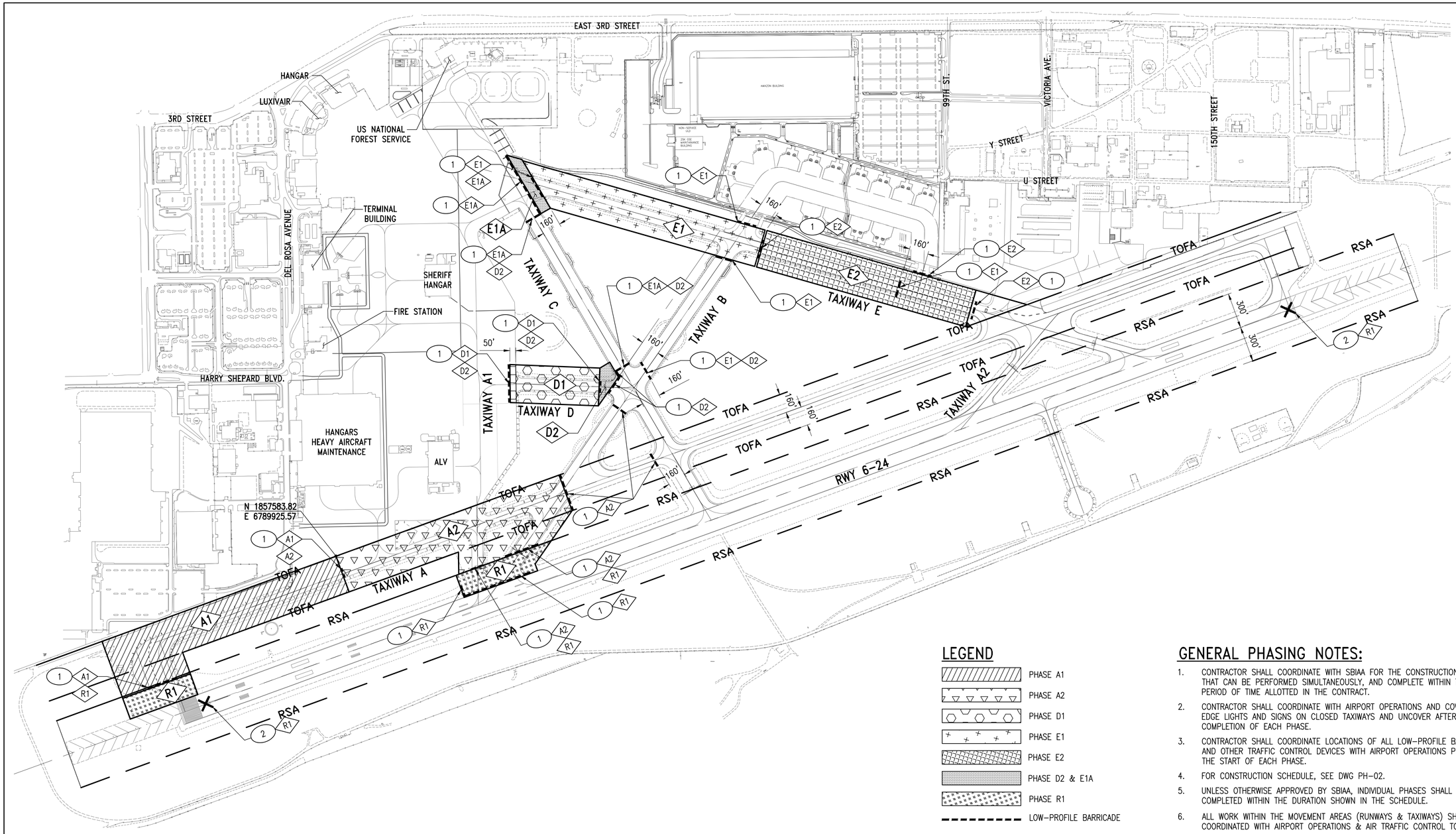
During the course of construction, Staff determined the native material in a portion of the Taxiway A1 shoulder area, and fillet section at the west end of Taxiway A required additional sub-base material.

- Original Project Amount: $ 3,983,650.00
- Previously Approved Change Order No. 1: $ (317,477.26)
- Proposed Change Order No. 2: $ 344,358.76
- New Project Amount: $4,010,531.50

Staff recommends the Commission approve the above recommended action.

Attachments:

1. Site Map.
2. Proposed Change Order No. 2.



LEGEND

- PHASE A1
- PHASE A2
- PHASE D1
- PHASE E1
- PHASE E2
- PHASE D2 & E1A
- PHASE R1
- LOW-PROFILE BARRICADE
- PORTABLE LIGHTED RUNWAY CLOSURE MARKER
- XX — PHASE NUMBER
- RSA — RUNWAY SAFETY AREA

GENERAL PHASING NOTES:

1. CONTRACTOR SHALL COORDINATE WITH SBIAA FOR THE CONSTRUCTION PHASES THAT CAN BE PERFORMED SIMULTANEOUSLY, AND COMPLETE WITHIN THE TOTAL PERIOD OF TIME ALLOTTED IN THE CONTRACT.
2. CONTRACTOR SHALL COORDINATE WITH AIRPORT OPERATIONS AND COVER ALL EDGE LIGHTS AND SIGNS ON CLOSED TAXIWAYS AND UNCOVER AFTER THE COMPLETION OF EACH PHASE.
3. CONTRACTOR SHALL COORDINATE LOCATIONS OF ALL LOW-PROFILE BARRICADES AND OTHER TRAFFIC CONTROL DEVICES WITH AIRPORT OPERATIONS PRIOR TO THE START OF EACH PHASE.
4. FOR CONSTRUCTION SCHEDULE, SEE DWG PH-02.
5. UNLESS OTHERWISE APPROVED BY SBIAA, INDIVIDUAL PHASES SHALL BE COMPLETED WITHIN THE DURATION SHOWN IN THE SCHEDULE.
6. ALL WORK WITHIN THE MOVEMENT AREAS (RUNWAYS & TAXIWAYS) SHALL BE COORDINATED WITH AIRPORT OPERATIONS & AIR TRAFFIC CONTROL TOWER.
7. ADDITIONAL COORDINATION FOR PHASING OF THE WORK WILL BE REQUIRED DURING FIRE SEASON.

PHASING CONSTRUCTION NOTES:

(1) INSTALL LOW-PROFILE BARRICADE PER DETAIL 1 ON DWG PH-03 DURING PHASE SHOWN ON PLAN.

(2) PLACE PORTABLE LIGHTED RUNWAY CLOSURE MARKER PER DETAIL 7 ON DWG PH-03 DURING PHASE SHOWN ON PLAN.

0 200' 400' 800'

SCALE: 1"=400'

MARK	REVISIONS	BY	APPR.	DATE

REGISTERED PROFESSIONAL ENGINEER — DIRK S. YOUNG — No. C69209 — Exp. 6/30/22 — CIVIL — STATE OF CALIFORNIA — 10/15/21

PREPARED BY

AECOM
999 TOWN & COUNTRY ROAD
ORANGE, CALIFORNIA 92868
T: 714.567.2400
F: 714.567.2729
www.aecom.com

SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY

APPROVED BY: _____ 10/15/21 DATE

APPROVED BY: _____ DATE

SAN BERNARDINO INTERNATIONAL AIRPORT

TAXIWAY SHOULDER IMPROVEMENT PROJECT
OVERALL TAXIWAY CONSTRUCTION PHASING PLAN

DATE 10/15/21

DRAWING NUMBER PH-01

SHEET NUMBER 6 OF 34

DWG Name: C:\Temp\PDF's\60331156 SBIAA Pvmt & Joint Repair\900-Work\910-CAD\Twy Shoulders\Sheets\Civil\ PH-01.dwg
CAD Generated: Oct 13, 2021 - 10:42am User: gallardoo

Inland Valley Development Agency
San Bernardino International Airport Authority
1601 E. 3rd Street
San Bernardino, CA 92408
Phone: (909) 382-4100 FAX: (909) 382-4106

Change Order 2 to Contract: Taxiway Shoulder Improvement Project, dated June 22, 2022 by and between: San Bernardino International Airport Authority (Agency), and Griffith Company. (Contractor), the Contractor is hereby directed to make the following change in contract work:

ITEM	DESCRIPTION OF CHANGES	TYPE	AMOUNT
2-1	Remove and Replace Silty Material with CAB	**Add**	**$132,499.17**
2-2	Additional AC &CAB on Fillet	**Add**	**$62,497.41**
2-3	Remove dirt from Twy A and Impact CAB	**Add**	**$55,836.17**
2-4	Additional Grading & Paving on Twy D&B	**Add**	**$29,875.28**
2-5	Electrical Vault Lid Raise (ROM)	**Add**	**$20,000.00**
2-6	Unforseen Concrete Removals	**Add**	**$4,560.60**
2-7	Additional Work on the Fillet Area	**Add**	**$9,090.13**
2-8	Asphalt Pavement for the Fillet Area	**Add**	**$30,000.00**
	Total Cost for Change Order 2.		**$344,358.76**

Original Contract Amount:	**$ 3,983,650.00**
Executed Change Order 1:	**$ 317,477.26**
Proposed Change Order 2:	**$344,358.76**
New Contract Amount:	**$4,010,531.50**

ACCEPTANCE:

Contractor accepts the terms and conditions stated above as full and final settlement of any and all claims arising from this Change Order and acknowledges that the compensation (time and cost) set forth in the Change Order comprises the total compensation due for the work or change defined in the Change Order, including all impact on any unchanged work. By signing the Change Order, the Contractor acknowledges and agrees that the stipulated compensation includes payment for all Work contained in the Change Order, plus all payment for the interruption of schedules, extended overhead costs, delay, and all impact, ripple effect or cumulative impact on all other Work under this Contract. The signing of the Change Order acknowledges full mutual accord and satisfaction for the change, and that the time and/or cost under the Change Order constitute the total equitable adjustment owed the Contractor as a result of the change. The Contractor agrees to waive all rights, without exception or reservation of any kind whatsoever, to file any further claim or request for equitable adjustment of any type, for any reasonably foreseeable cause that shall arise out of or as a result of this Change Order or the impact of this Change Order on the remainder of the Work under this contract. Contractor agrees to perform the above described work in accordance with the above terms and in compliance with applicable Sections of the Contract Documents. This Change Order is hereby agreed to, accepted and approved, all in accordance with the General Conditions of the Contract Documents.

Accepted by Contractor _____ Date: _____

Approved by Agency _____ Date: _____

	TO: San Bernardino International Airport Authority Commission **DATE: February 22, 2023** **ITEM NO: 16** **PRESENTER: Michael Burrows, Chief Executive Officer**

SUBJECT: REVIEW STATUS OF THE ACTION PLAN FOR THE SAN BERNARDINO INTERNATIONAL AIRPORT AUTHORITY (SBIAA) THROUGH JUNE 30, 2023

SUMMARY

On December 16, 2015, the SBIAA Commission adopted a Strategic Plan and in January 2020 updated its Business Plan and near term outlook. This helped identify key dates and deliverables in an effort to focus San Bernardino International Airport Authority (SBIAA) Staff and Resources to increase organizational, operational efficiencies and results.

RECOMMENDED ACTION(S)

Review the Action Plan for the San Bernardino International Airport Authority through June 30, 2023.

FISCAL IMPACT

None. The proposed plan identifies staff resources for which funding is included in the General Fund of the adopted San Bernardino International Airport Authority (SBIAA) Budget for Fiscal Year 2022/23.

PREPARED BY:	Michael Burrows
CERTIFIED AS TO AVAILABILITY OF FUNDS:	Mark Cousineau
APPROVED AS TO FORM AND LEGAL CONTENT:	Scott Huber
FINAL APPROVAL:	SBIAA Commission

BACKGROUND INFORMATION

The Action Plan identifies key dates and deliverables in an effort to focus San Bernardino International Airport Authority (SBIAA) Staff and Resources to increase organizational and operational efficiencies.

This status is offered for consideration and review. Updates and adjustments should be made, as appropriate, at each monthly interval.

For review and discussion.

Attachments:

1. SBIAA Action Plan.

June 30, 2023 – Airport Focal Areas



- Ensure Operational & Financial Stability
- Stabilize Revenue Streams & Sources
- Good Neighbor Program
- Airport Outreach:
  - Business Retention & Expansion
- Solar Project
- Runway Repair Project
- Grant Programs & Initiatives
- International Trade
- San Manuel Development

San Bernardino International Airport Authority

Action Plan for SBIAA (6/30/23)

Month	Key Initiative	Key Resources	Completion Date
January, 2023	Airport Operations Update; FAA Reporting; Good Neighbor Report	SBIAA Commission, CEO, Director of Aviation, Airport Manager, Director of Finance	January, 2023
February , 2023	Mid-Year Budget Adjustments; Emergency Exercise	Director of Aviation, Airport Manager, Director of Finance, Director of Administration	February, 2023
March, 2023	Audit Report; Legislative Updates; Las Vegas service, Operational Updates	CEO, Director of Administration, Director of Aviation, Director of Finance	March, 2023
April, 2023	Grant Program & Initiatives; DOE grant application	Director of Finance, Director of Aviation, Project Manager	April, 2023
May, 2023	International Trade Initiatives; Draft Annual Budget Preparation and Review; Initiate Refunding	SBIAA Commission & Committee, CEO, Director of Finance, Exec Staff	May, 2023
June, 2023	Adopt Annual Budget	SBIAA Commission & Committee, CEO., Aviation Director, Director of Finance, Exec Staff	June, 2023

- Critical Path for Commission Buy-In & Implementation; Aggressive Timeline May Impact Capital Plan

SBIAA Near-Term Action Plan – Implementation

February, 2023

- Stabilize Tenants & Infrastructure
- Review Operational Plans
- Runway & Taxiway Improvements
- Implement New Operational Software
- Complete 2020/21 Airport Marketing Efforts & Initiatives
- Air Passenger Service
- International Trade
- Legislative Program

Sub-Initiative Status:

