Tenant Improvement Design Criteria

Norman Y. Mineta San Jose International Airport

Issued April 15, 2019

SJC

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1. Vision

1.1 Introduction to the Airport

Norman Y. Mineta San Jose International Airport (SJC) is a medium-sized hub located in the heart of Silicon Valley. SJC provides the City of San Jose and the surrounding region of nearly four million people with efficient transportation to a variety of destinations worldwide. In addition to striving for on-time, convenient flights, the Airport aims to provide the flyer with an all-around memorable Airport experience from ticketing counter to gate. SJC is comprised of two terminals, Terminal A and Terminal B.

With the fast pace of Silicon Valley, the demand for flights is increasing dramatically. To keep up with demand, the Airport has been expanding its number of gates, flights, and destinations. With this expansion, the Airport has made it a goal to provide state of the art concessions that serve both the business and leisure traveler.

Intent of this Document

The purpose of this document is to familiarize concession tenants and their design professionals with the intricacies of Airport construction and to provide a consistent design intent and image throughout the Airport. This document is intended to establish minimum acceptable standards of design applicable to all concession locations throughout the Airport. Additionally, this design criteria will provide the Tenant's design and construction team with technical requirements, the process for submittals and approvals, and construction procedures.

That said, Tenants are encouraged to be innovative and creative in the design and layout of each space, incorporating quality materials and unique design solutions to showcase their concepts and to provide a superior guest experience. It is not the intent of the design criteria to provide the Tenant's design team with a design but rather to provide insight and guidance for the design and construction process with respect to Airport requirements and expectations.

Dimensions and details shown in this document illustrate anticipated building conditions but are for reference only. The actual "as-built" building conditions may vary and it is the sole responsibility of the Tenant's design team, whether designer or contractor, to verify the actual "as-built" conditions and implement all field investigations necessary.

While this document represents the majority of the information needed for concessions, it is the Tenant's responsibility to fully review and understand the most current version of all Airport standards. Further information on Airport standards can be found within the Tenant's lease agreement, and at: www.flysanjose.com/standards-and-guidelines.

1.2 Defining San Jose

SJC has identified three defining characteristics of the City of San Jose that are seen as inspirational concepts for the look and feel of concessions designs within the Airport: Agricultural History, Gateway to Silicon Valley, and Diversity. Tenants are encouraged to incorporate elements into their concessions designs that evoke one or more of these characteristics.

Agricultural History

Before San Jose was a technology hub, the Santa Clara Valley was filled with orchards and farmland. It was known as the "Garden City" and the "Valley of Heart's Delight." It was one of the largest suppliers of produce for the United States for much of the twentieth century. This rich history evokes images of vintage farm equipment, crates with vintage labels, fresh food, and farmers markets. This is still evident in the area today along with California's focus on fresh and healthy food. These concepts can be modernized and serve as inspiration for concession designs.

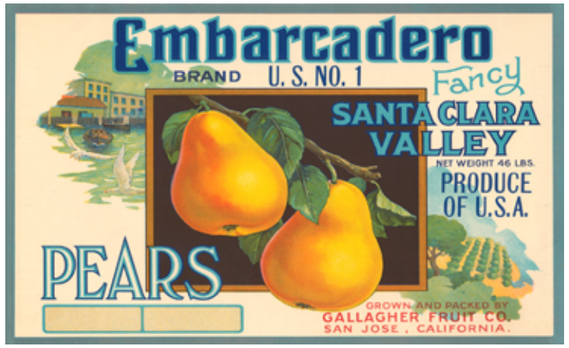
Gateway to Silicon Valley

Today, San Jose is known as the Gateway to Silicon Valley and a center of tech innovation throughout the world. The region is home to thousands of internationally-known companies, including Google, Intel, Cisco, Apple, HP, Adobe, Applied Materials, eBay, and many more. These companies have developed a unique Silicon Valley culture with open office space concepts, which relate to the open food hall and marketplace trends discussed throughout this document.

Silicon Valley evokes imagery of microchips, digital elements, clean lines, transparency and openness. The design of Terminal A and B incorporate this as inspiration; the design of Terminal B was inspired by the complexity of an electronics cable, and Terminal A was inspired by a computer's motherboard.

Diversity

San Jose is one of the most diverse cities in the United States, with many different racial and ethnic groups represented and contributing to a unique cultural landscape. This diversity is reflected in neighborhoods, food, festivals, and traditions throughout the City. Dining, retail and even special events within the Airport concessions environment should showcase and reflect the diversity and vibrancy found in the City.



Vintage Fruit Label

The Valley of Heart's Delight

The Santa Clara Valley is
To those who hold it dear
A veritable Paradise
Each season of the year.
One loves it best in April
When fruit trees are in bloom;
And a mass of snowy blossoms
Yield a subtle sweet perfume.
When orchard after orchard
Is spread before the eyes
With the whitest of white blossoms
'Neath the bluest of blue skies.
No brush could paint the picture
No pen describe the sight
That one can find in April
In "The Valley of Heart's Delight."

— Clara Louise Lawrence

Early 20th century view of Santa Clara Valley

Fruit processing and packing in the 1940's

1.2 Defining San Jose

San Pedro Square Market

Food Hall Concept in Google Office

Tet Festival

Obon Festival

Little Italy Street Festival

Celebration of Aztec New Year

1.3 Concessions Design Vision

In the pages that follow, the Airport has set forth its vision and goals for both Terminal A and B concessions to assure achievement of the highest possible quality. The Airport values working together jointly as one team, focused on a single outcome, following a process that should be rewarding to all team members. These thoughts have guided the development of the SJC Tenant Improvement Design Criteria. The Concessionaire and its Tenants will benefit greatly from an understanding of quality standards as set forth in this document with the goal and purpose to achieve the best possible finished project.

Goals of SJC Concessions

SJC's goals for the Airport concessions are to:

- Establish a unified concessions environment while allowing for individualized expressions.
- Create an attractive and modern look and feel that is unique to SJC.
- Celebrate creativity and flexibility.

To that end, two organizational concepts and seven design principles have been established to guide the design of the concession tenant spaces to meet these goals.

Within the design principles, certain elements are required to establish a consistency among the concessions designs. Select elements are not required but are strongly encouraged in order to bring new and unique experiences to Airport guests. While these principles establish a framework, individuality and creativity are encouraged and supported. All elements should be designed to be consistent with a Tenant's individual branding.

Organization of this Document

This design criteria document is organized from overall to specific.

- **Section 1**
  Describes the overall SJC Concessions Vision.
- **Section 2**
  Describes the organization of the concessions into Neighborhood Nodes and describes two concepts (Café and Marketplace) that define the character of these Nodes.
- **Section 3**
  Describes seven design principles for achieving the Café and Marketplace concepts, which apply to individual concessions tenants.
- **Section 4**
  Describes technical requirements for individual concessions tenants.
- **Section 5**
  Describes individual Tenant submission requirements and construction procedures.

1 Gather

2 Engage

3 Transparency

4 Embrace

5 Brand

6 Light

7 Variation

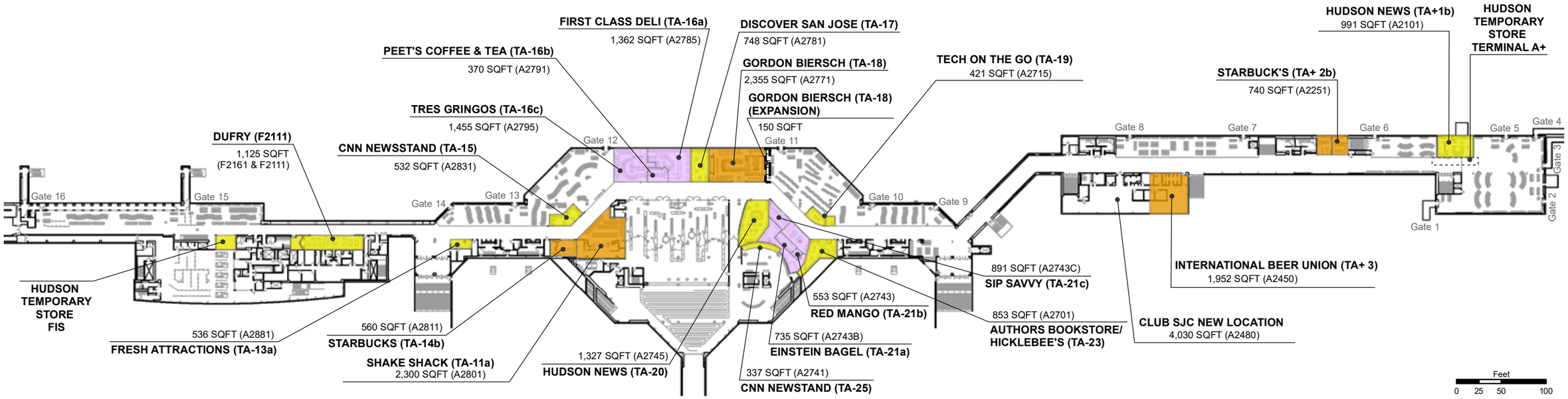
1.4 Definitions and Abbreviations

A.F.F. – Above Finished Floor.
After Hours – Time between the latest arriving flight, and earliest leaving flight. Generally 11:30pm-4:00am.
Airport – The Norman Y. Mineta San Jose International Airport (SJC).
Airport Project Coordinator (APC) – A person from the Airport Planning and Development Department serving as the single point of contact for tenants on issues of design and construction.
Air Operations Area (AOA) – The airfield area with any aircraft operations. This is a controlled and secured area.
Airside – The secured side of the terminal.
Authority Having Jurisdiction (AHJ) – City Department resonsible for the review and permitting of tenant projects.
Base Building – Building elements currently existing at the Airport.
CD Form B – Construction document to be submitted to the Property Manager for review after the approval of SD Form A.
Code Enforcement – Authority having jurisdiction over all matters pertaining to establishment and enforcement of building and construction requirements and standards at the Airport.
Conceptual Design – Design submitted to the Property Manager for Senior Staff Review
Design Control Area (DCA) – The transition area at the storefront of the tenant lease area. Elements within the DCA shall also comply with the guidelines for storefront, signage, lighting requirements, and merchandise display, and are subject to Airport approval.
Edge-Lit Canopy – Concessions storefront canopy characterized by a continuous linear LED light fixture at its front edge.
Escort – A person with an Airport issued Escort Badge whose sole purpose is to escort non-badged personal throughout the secured area.
Experience-Driven – A quality of dining or retail concessions that focuses on memorable guest experiences and interactive engagement.
Floating Kiosk – Small freestanding boutique shops located within the hold room seating areas.
Flow-Through Retail – Retail that has low display areas and provides guests the opportunity to walk through the space in an interactive way.
Hold Room – Seating areas adjacent to gates.
In-Line Concession – Concessions that are on the east side of the concourse in each Terminal, arranged in a line down the concourse.
Kiosk – An individual, self-contained concession unit that provides preparation, display, or selling space as well as storage. These are typically located on the west side of the concourse on the holdroom seating area side of each terminal.
Landside – The unsecured side of the terminal.
Mall Wall – The temporary barricade around the lease area during demolition and construction.
Neutral Band – A horizontal band above the storefront opening defining the signage zone and providing a transition to the terminal finishes.
Off-peak Hours – Periods of less traffic in the Airport Terminals.
Pre-Construction Meeting – A critical staff meeting to be held prior to the beginning of any major Tenant Improvement Project.
SD Form A – Schematic Design Form A to be submitted to the Property Manager for review after the approval of conceptual design.
Senior Staff – A Team of Airport representatives comprised of the Director of Aviation, Assistant Director of Aviation, and Deputy Divison Directors.
Storefront Enclosure – The architectural enclosure that is the public façade within the neutral frame. This includes the neutral frame, neutral band, neutral piers, and the floor surface in the Design Control Area.
Supplemental Signage – Additional signage provided by the tenant, which must be approved by the Airport.
Tenant Improvement Project – Any Project proposed by a new or existing Tenant to be submitted to the Airport for review.
Tenant Property Manager – A person from the Airport Finance Division serving as the single point of contact for tenants on submittals.

2. Organizational Concepts

2.1 Terminal A

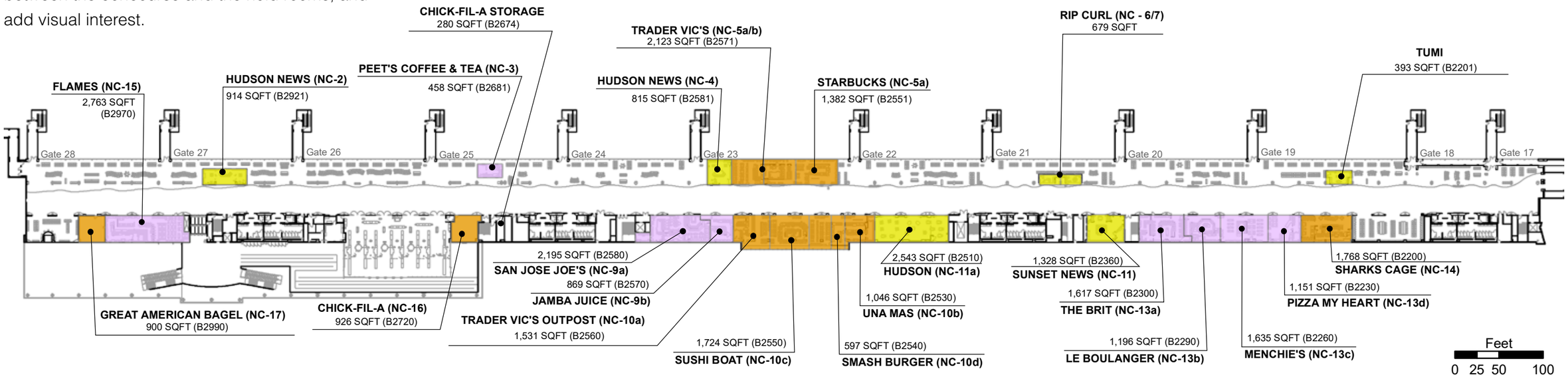
Terminal A, originally opened in 1990, was renovated in 2010. The organization and floor pattern of Terminal A is designed around the concept of unique elements plugging into a central motherboard. The glass curtainwall is slanted outward and provides unobstructed views of the airfield from the gate seating areas. Terminal A is comprised of an International Arrivals facility on the south, the main Terminal A space in the center, and a linear concourse extension to the north. The ceilings of Terminal A are lower than Terminal B in general and are stepped in height to define the concourse walkway and the gate seating areas.



Existing Terminal A Concession Spaces

2.2 Terminal B

Terminal B was completed in 2010, and was the first passenger terminal in the United States to be certified LEED Silver. Terminal B represents the state-of-the-art in Airport architecture and design, and SJC strives to continue that into the future. It is characterized by a long, linear single-loaded concourse with gates and seating areas on the west side. Terminal B's main design feature is a tall, daylit space with a roof that dapples the light from above, and two continuous clerestories, which take advantage of the plentiful sunshine in the region and provide indirect natural day lighting. The double-height east wall of the concourse, clad with decorative wood panels, is intended to remain as a distinct design feature. An undulating floor pattern along the full length of the concourse is intended to blur the line between the concourse and the hold rooms, and add visual interest.

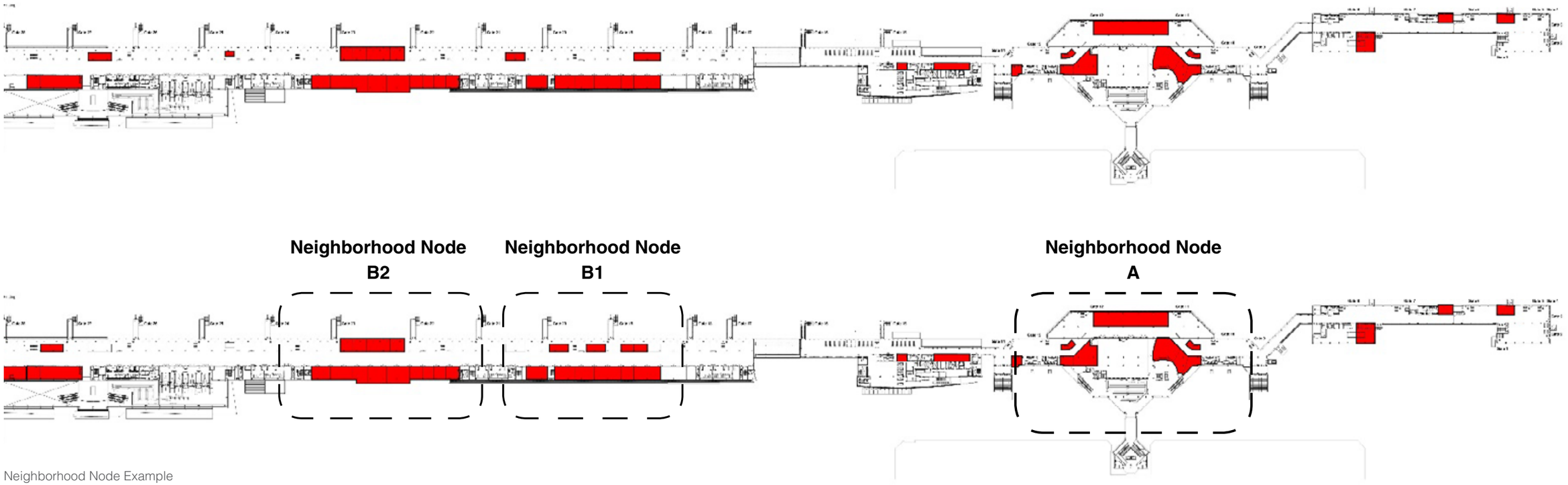


Existing Terminal B Concession Spaces

2.3 Neighborhood Nodes

Neighborhoods within cities often present a cohesive collection of dining and retail opportunities to its residents and visitors. In San Jose, neighborhoods such as Santana Row have a distinct character and the storefronts share some common elements, but there is also freedom for each space to establish its own identity. There is a greater collective spirit that attracts people to it, and in turn contributes to the success of each individual business.

At SJC, the concessions will be organized and grouped into nodes within the terminals, creating an urban density much like neighborhoods within a city. Concessions should be double-loaded on the concourse as much as possible. Elements including unique signage and canopies will highlight and unify concession nodes, creating a vibrancy that will attract guests to them. Each node should offer a variety of dining, shopping, and seating opportunities that work together as a group to serve a variety of passengers. Within the nodes, café or marketplace concepts can be realized, or even a combination of both.

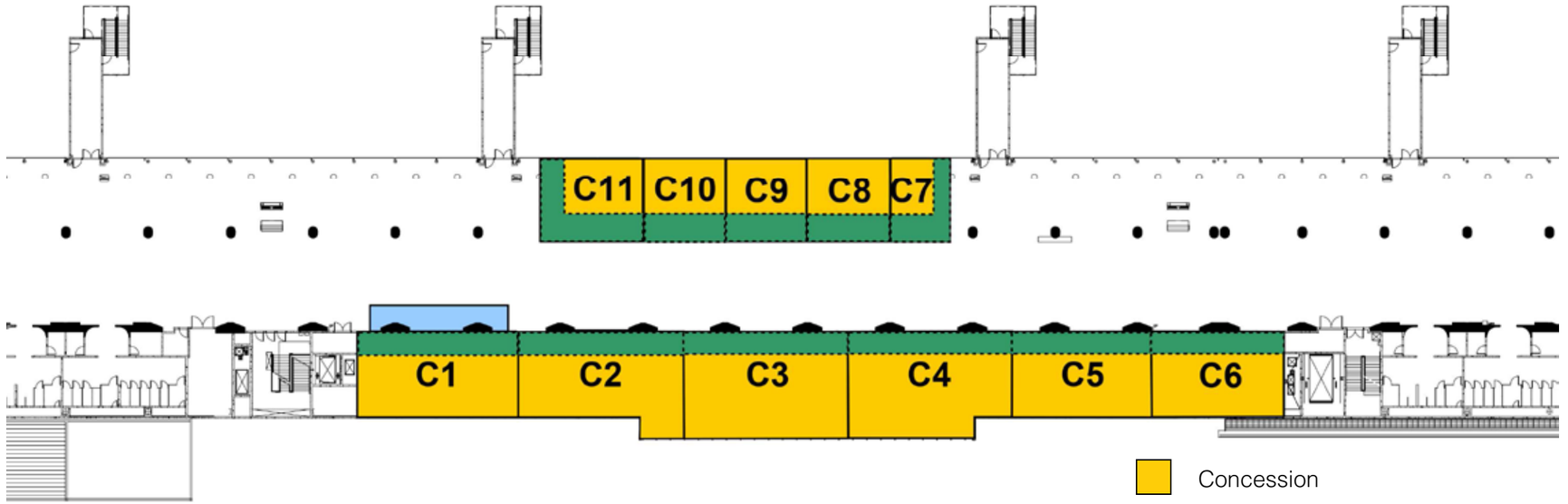


Neighborhood Node Example

2.4 Café Concept

Inspired by sidewalk cafés in Paris, izakayas in Tokyo alleyways, and Santana Row in San Jose, the café concept strives to create an indoor/ outdoor atmosphere that encourages guests to stop, explore, and watch the activity on the concourse, the kitchen, or the airfield. Food and beverage concessions should offer a variety of seating options in close proximity to the concourse, or in café seating areas as permitted by SJC. Retail concessions should offer interactive or flow-through merchandise displays that are easily visible from the concourse. Visual connections should be made between seating areas, kitchens, bars, retail, and people walking by on the concourse. Each concession is encouraged to be entirely unique, while common elements such as signage and canopies bring cohesiveness to the whole.

Example Node Plan



Neighborhood Node – Double-Loaded Cafe

Sidewalk Cafés

Izakayas

Café Concept - Terminal B In-Line Concessions

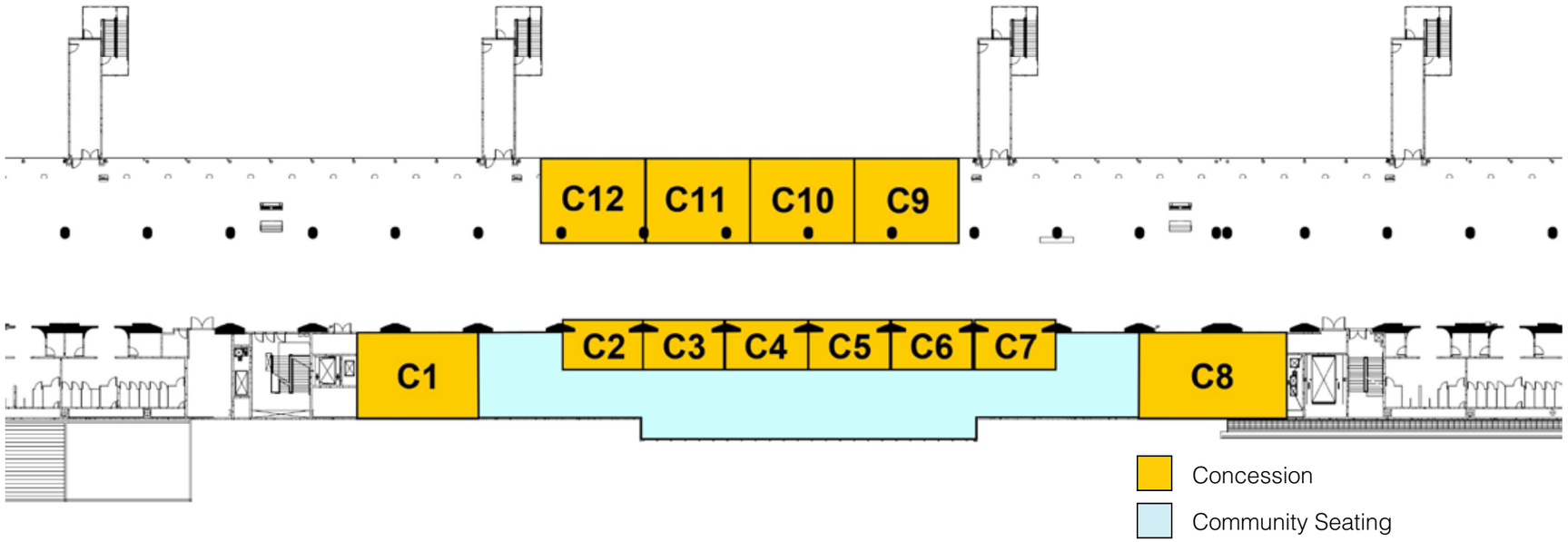
Café Concept - Terminal B Kiosks

Café Concept - Terminal A Kiosks

2.5 Marketplace Concept

Inspired by food halls and markets across the country, including DeKalb Market Hall in Brooklyn, Grand Central Market in L.A., and San Pedro Square in San Jose, the Marketplace concept creates a shared environment where passengers are offered multiple opportunities in one open space. Each concession should specialize in specific offerings, and work together to offer a variety of offerings that attract guests or groups of guests to visit more than one concession. A variety of seating options including grab-and-go, fresh markets, counter seating, and common, shared sit-down seating should be incorporated into the concept. A strong emphasis is placed on the collective marketplace atmosphere, and each concession should have an open visual connection with other concessions. Front-of-house kitchens are encouraged. Concessions are encouraged to share kitchens, equipment and storage as appropriate. Retail concessions should be mixed in, and open flow-through concepts are encouraged.

Example Node Plan



Neighborhood Node – Walk-Through Marketplace

Grand Central Market

DeKalb Market Hall

Marketplace Concept - Terminal B In-Line Concessions

Marketplace Concept - Interior

SJC

3. Design Principles & Component Guidelines

Gather

Goal

Create an inviting and active environment by locating diners and shoppers in close proximity to the concourse, encouraging people to gather and activate the space. For branding, a crowd can become just as important as a sign. Potential strategies include minimal separation between concourse and seating areas, café style seating placed before signage, and flow-through merchandise zones.

3.1.1 Seating Zones
3.1.2 Counter Zones
3.1.3 Café Seating Zones
3.1.4 Merchandise Display Zones

Grand Central Market

1 Gather

3.1.1 Seating Zones

Along the concourse circulation, flexible two-top and high-top café style seating is encouraged. Activate the edge of the space and allow for easy circulation into the establishment. Within the depth of the space, use furniture to divide seating areas; a community table or booth seating can separate seating zones. Plan the bar or open concept kitchen in a prominent location, directly adjacent to or highly visible from the concourse circulation. In addition to traditional bar counter seating, lounge seating in the bar area will encourage guests to linger and increase the spend.

3.1.2 Counter Zones

Tenants are encouraged to create social seating options for guests, such as community tables and bar top seating. Providing power for 50% or more of seats is recommended. Consideration should be given within the seating area to allow for roller board luggage storage.

3.1.3 Café Seating Zones

Café seating on the concourse in encouraged in locations permitted by the Airport. Café seating areas are permitted to extend a maximum of 12'-0'' into the concourse from the lease line in specifically designated areas. Café seating areas must be separated from the concourse by a café railing. Seating zones on the concourse must ensure cleanliness and maintenance of floor. See *Section 3.4.7 Café and Alcohol Railings*.

3.1.4 Merchandise Display Zones

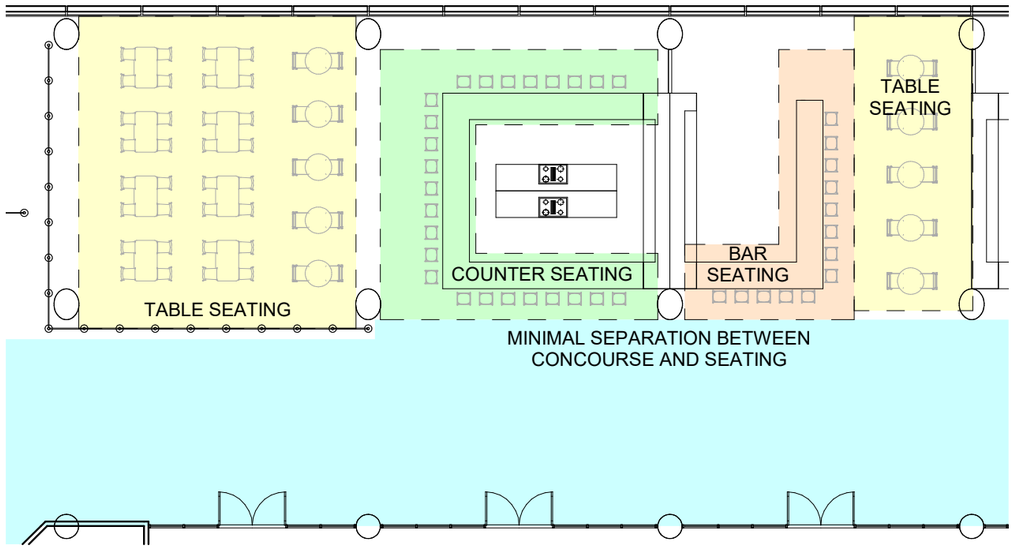
To reinforce visual merchandising, a Merchandise Display Zone, defined as the area running the full width of the storefront and five feet of the store depth, should be given special attention in design. Merchandise should be set aside for professional quality displays.

- Tenants are encouraged to emphasize this area with high quality finishes, lighting, ceiling height changes and other special visual distinctions of all exposed surfaces. Materials and finishes shall be selected for their suitability to a high traffic retail environment, as well as their design sensibility.
- Tenants are encouraged to utilize distinctive, high quality, and appropriate display techniques which best showcase the Tenant's merchandise. Displays should artfully feature products. Placards, posters, and advertising media are not acceptable.
- Display windows shall be transparent and open to the store.
- The ceiling above the Merchandise Display Zone shall be incorporated as part of the edge-lit canopy design.
- Tenants shall install lighting to accent merchandise displays.
- All walls within this zone shall incorporate high quality finish materials. Materials such as stone tile, wood panels, high quality wall coverings, and the use of trim and other decorative treatments shall be used. Slatwall and pegboard fixture systems are not acceptable.

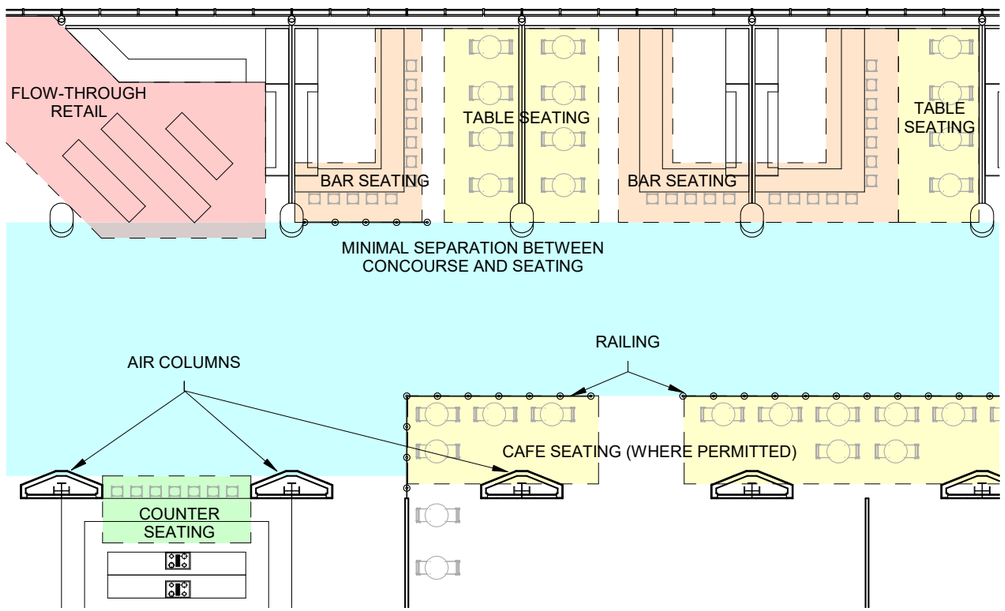
Flexible Seating along Concourse Circulation

Bar Counter Seating

1 Gather



Gather Diagram - Terminal A



Gather Diagram - Terminal B

Terminal A Example

Terminal B Example

2 Engage

Goal

Engage guests by creating visual connections to preparing and cooking food, crafting cocktails, and interaction with products. Encourage experience-driven dining and retail. Potential strategies include a front-of-house kitchen, locating a bar near the concourse, and creating unique and interactive ways to engage with staff and products. Allow for sightlines into and through the Tenant space.

3.2.1 Experience-Driven Dining
3.2.2 Experience-Driven Retail
3.2.3 Front-of-House Kitchen
3.2.4 Bar and Serving Areas

Teppanyaki

2 Engage

3.2.1 Experience-Driven Dining

Put the kitchen on display when appropriate for the concept. Allow guests to engage with the chef visually and verbally. Create a memorable experience that can enhance the brand. The open kitchen concept creates curious interest and foot traffic.

3.2.2 Experience-Driven Retail

The use of interactive displays and virtual technology is encouraged. Allow guests to touch and feel the product or update their wardrobe with a virtual dressing room. This allows for access to a greater product range in a reduced footprint and generates traffic.

Retail locations should use a mixture of different product display areas. It is recommended the concessionaire provide digital displays to supplement static merchandising areas.

3.2.3 Front-of-House Kitchen

Refer to precedent images for examples of well-curated open kitchen concepts. Hoods shall be clad in a noncombustable material in unison with the design concept for the concession. Exposed hoods are heavily discouraged unless decorative in design.

Exhaust systems for food preparation shall be fabricated entirely from stainless steel, incorporate an integral fire suppression system, and comply with regulations of the AHJ.

For technical requirements, reference Section 4.6.3 Food Preparation Areas.

3.2.4 Bar and Serving Areas

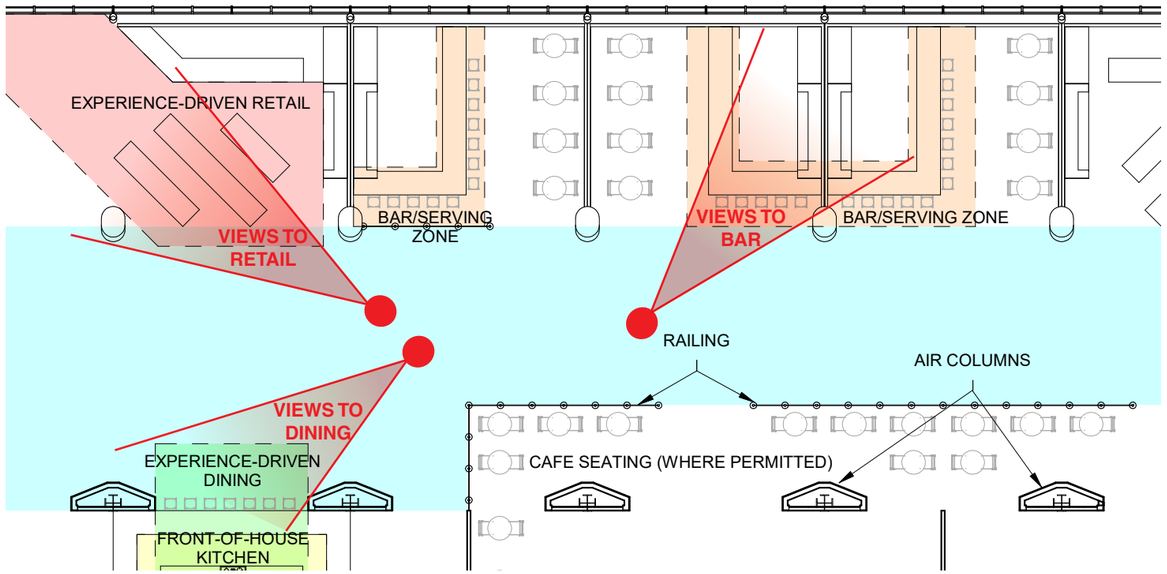
Make the bar a focal point of the design; preference is for the bar to be located at or near the front of the space and easily visible from the concourse. Allow guests to visually and verbally engage with service staff. The bar area is a unique opportunity for branding within the space and should celebrate the concept. Support service areas should be concealed from public view with well-designed millwork. Avoid placing server stations in areas with direct sight lines from the concourse circulation.

For technical requirements, reference Section 4.6.2 Bars.

Experience-Driven Retail - Clothing

Experience-Driven Dining

2 Engage



Engage Diagram - Terminal B

Experience-Driven Dining

Experience-Driven Dining

Experience-Driven Retail - Music

Experience-Driven Bar Service

3 Transparency

Goal
Maintain views through concessions to the airfield and the concourse.

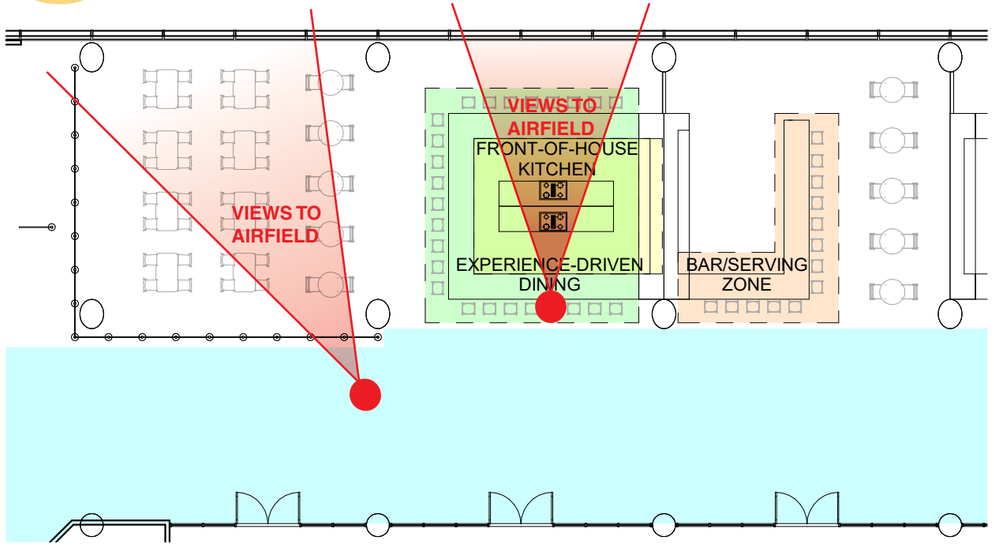
3.3.1 Maintain views to airfield
Required for all kiosks in Terminal A and B.

Kiosks are permitted to have one full-height wall or closed space perpendicular to the airside (west) curtain wall. All other walls, counters, merchandise displays, and shelving are permitted to be 48” maximum in height. Open shelving suspended around a bar is permitted at a minimum of 8’-0” A.F.F. If additional full-height walls are necessary for the operation of the concession, they will be reviewed on a case-by-case basis by the Airport.

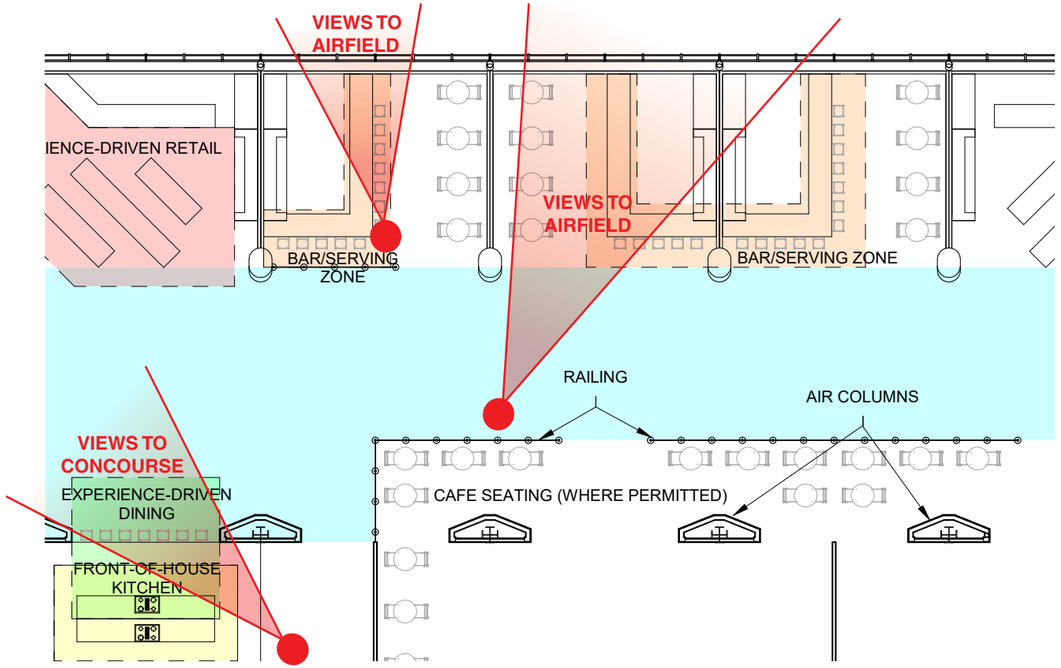
3.3.2 Provide views to concourse
In-line Concessions in Terminal A and B are encouraged to minimize storefront elements to order to maintain views to the concourse from within.

View to Airfield

3 Transparency

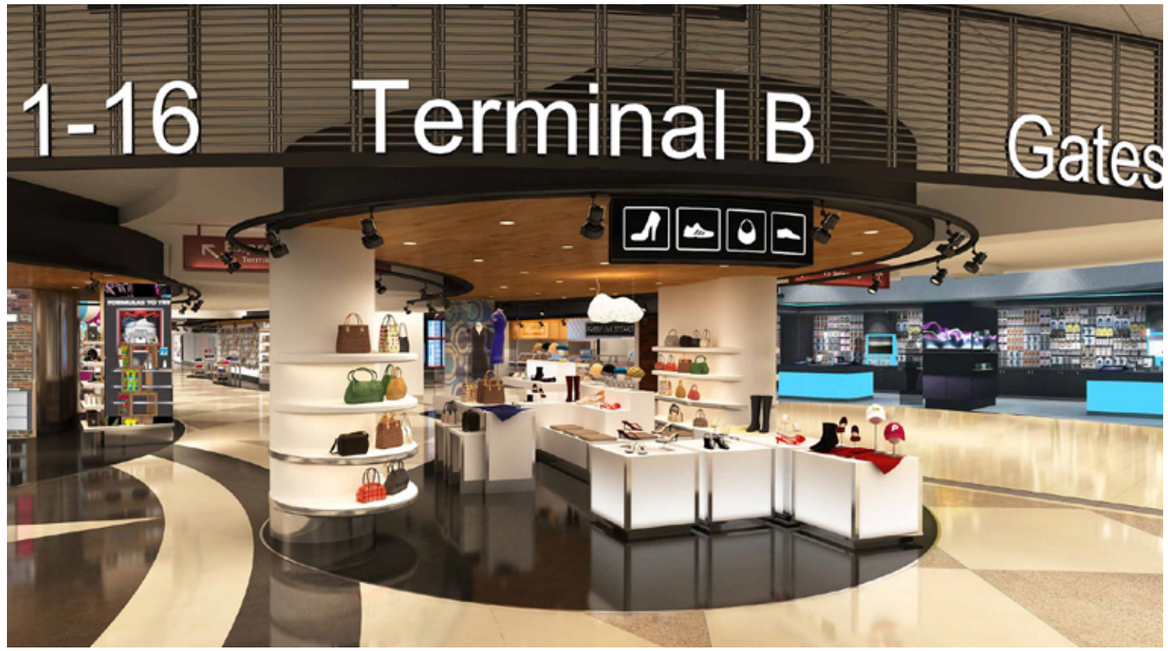


Transparency Diagram - Terminal A



Transparency Diagram - Terminal B

Transparency - Dining



Transparency - Retail

Embrace

4

Goal
Embrace passengers by reaching out to the concourse with design elements and creating a threshold.

3.4.1 Edge-Lit Canopy
3.4.2 In-Line Concession Storefront
3.4.3 Kiosk Storefront
3.4.4 Floating Kiosks
3.4.5 Display Cases and Shelving
3.4.6 Counters
3.4.7 Café and Alcohol Railings
3.4.8 Queuing and Point of Sale
3.4.9 Base Building Architecture
3.4.10 Closure Systems

Dining Example with Canopy

4 Embrace

3.4.1 Edge-Lit Canopy

Required for all concession spaces.

The Edge-Lit Canopy emphasizes a streetscape environment and unifies all concessions within SJC. The canopy is required to be edge-lit and have a specific profile, but creativity is encouraged in the extrusion of that profile. Some possible forms include, but are not limited to, a solid canopy, cloud panels, or a trellis. Additional individuality is encouraged through use of material, lighting, and color. The canopy should be incorporated into the overall concession design and brand. Potential materials include, but are not limited to, wood, metal and perforated metal.

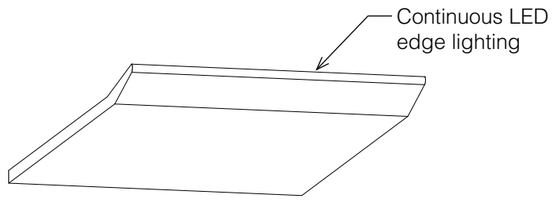
The canopy must function as the following:

- A visually unifying element helping to establish the San Jose International Airport brand.
- The armature upon which storefront signage will be attached or suspended from.
- The armature from which the blade sign will be suspended from (Terminal A only).

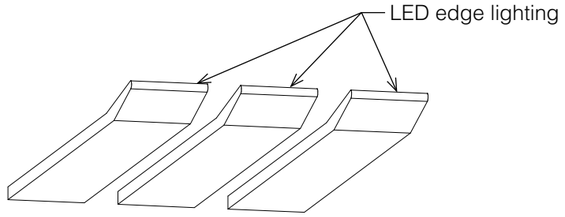
Optional functions include:

- The armature for Tenant's decorative and task lighting.
- The armature for menu boards (Marketplace concept only).
- The armature for exhaust hoods (front-of-house kitchen and marketplace concepts).
- The armature for suspended shelving.

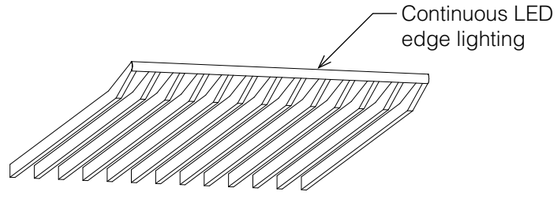
Canopies must extend at least 5'-0" into the concession space, but tenants are encouraged to extend the canopy further into the interior space and have it become the ceiling or incorporate it into the overall ceiling design. All MEP equipment within publicly-accessible concession spaces must be concealed. Canopies cannot impact sprinkler spray patterns, existing lighting, or airflow. The following section details establish the profile and dimension parameters for in-line, kiosk and marketplace canopies.



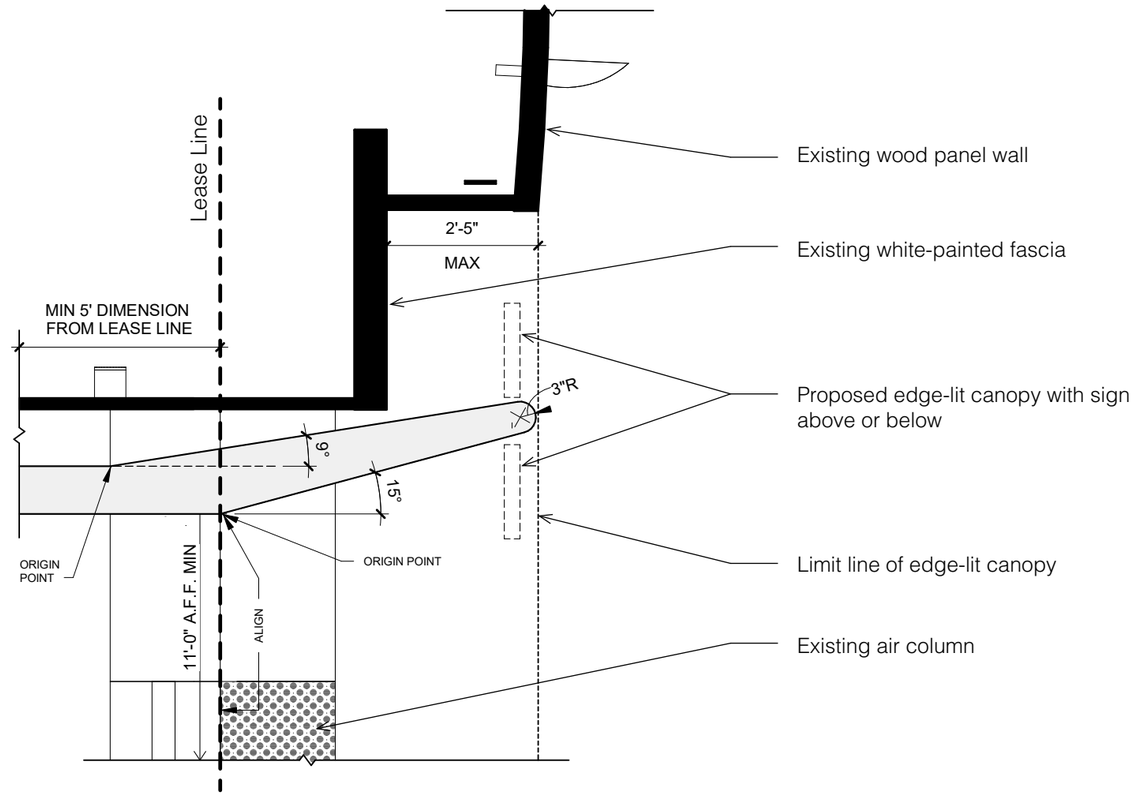
Solid or Perforated Panel Canopy



Solid or Perforated Panel Cloud Canopies



Trellis Canopy



Terminal B In-Line Concession Canopy Section

Terminal B In-Line Concession Canopy Example

4 Embrace

Kiosk Edge-Lit Canopies

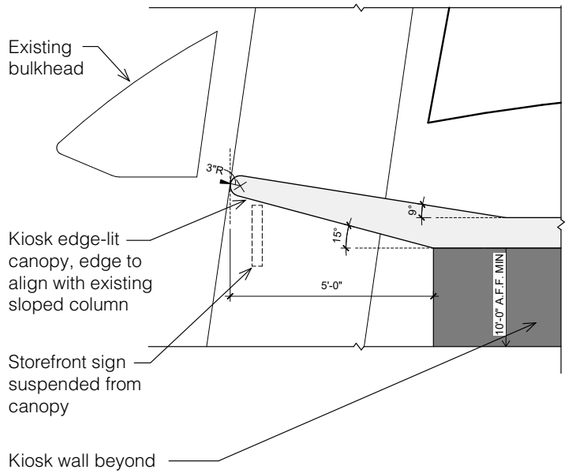
Kiosk canopies may be supported from opaque kiosk elements (such as kitchen, storage, or refrigeration enclosures), placed on columnar supports, or a combination thereof. The kiosk canopies are not permitted to be suspended or attached to the base building structure above. The San Jose International Airport, prior to construction, must approve any penetrations to the base building floor or ceiling. If the canopy is supported from below (i.e. on columns) those supports must be either finished to be consistent with the design of the kiosk or wrapped by the Tenant with high quality displays and/or finishes to match the Tenant counters and cabinetry.

In locations where kiosks are visible from above (such as the “Meet and Greet” Kiosk in Terminal B), the canopy must also serve as a screen to hide from view the back-of-house functions and any equipment, plumbing, electrical lines, or other items that may create an unpleasant visual clutter. In such conditions, the top of the canopy itself must have a clean, finished appearance with no visible conduit or structural fasteners. The canopy top must be kept free of dust, grease, and refuse that may otherwise accumulate there.

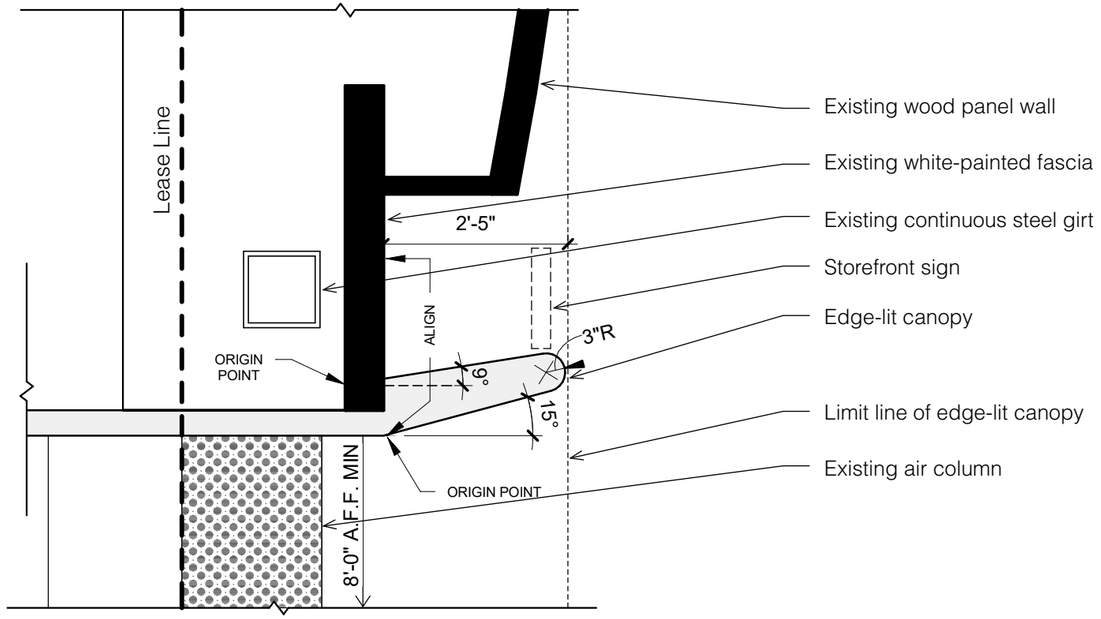
Marketplace Portal Edge-Lit Canopy

Permitted for Marketplace Concept only.

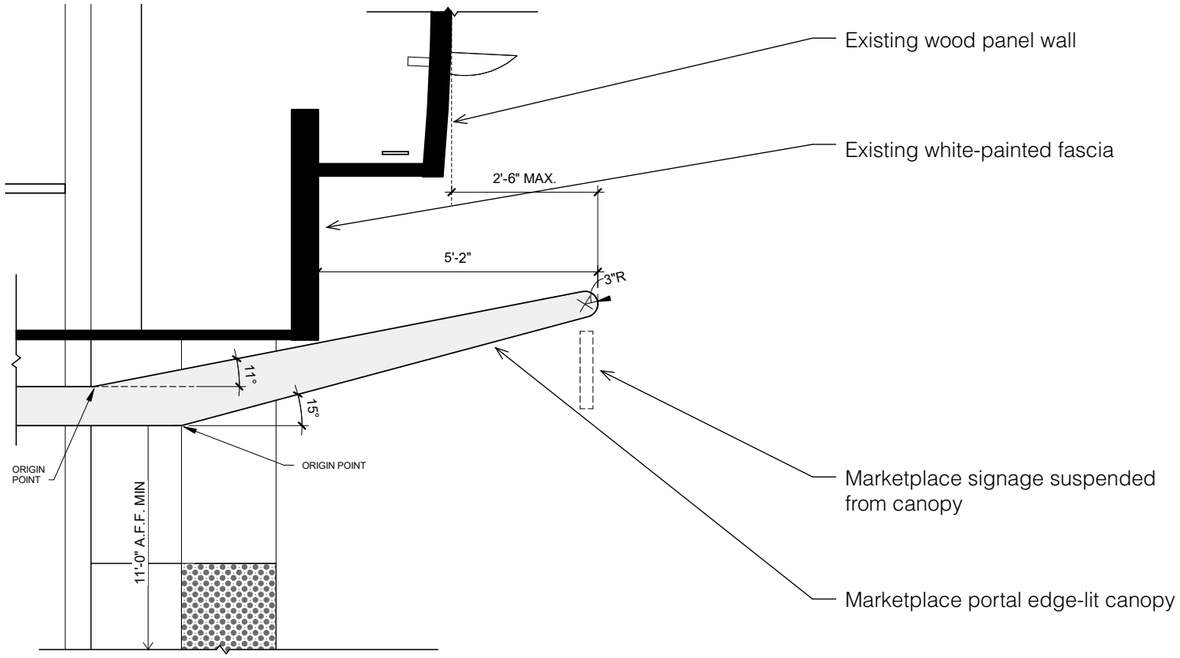
The portal canopy emphasizes the entrance to the marketplace. It is required to be edge-lit and have a specific profile. The portal canopy is allowed to extend into the concourse farther than the standard edge-lit canopy; see Marketplace Portal Edge-Lit Canopy detail for dimensional requirements.



Terminal B Kiosk Canopy Section
(Terminal A Kiosk Canopy Similar)



Terminal B In-Line Concession Canopy Section - Low Soffit Condition



Marketplace Portal Edge-Lit Canopy

3.4.2 In-Line Concession Storefront

A storefront is a Tenant's primary means of expression because it conveys their brand identity, character, and promise. For In-line concessions along the east side of the concourse in Terminals A and B, the following storefront guidelines are to be used to assure the highest quality storefront expressions are realized. Storefronts shall be designed, fabricated, and installed by the Tenant at the Tenant's sole expense. Storefront designs that allow maximum exposure of the Tenant area are ideal. Storefronts shall feature well-designed architectural elements and be a minimum of 75% transparent through the predominant use of glass or open access. Totally open storefronts are encouraged.

Tenants are encouraged to select high quality, richly-finished materials in the construction of their storefront that are appropriate to the brand and also complementary to the character and image of the San Jose International Airport.

Acceptable Materials and Details

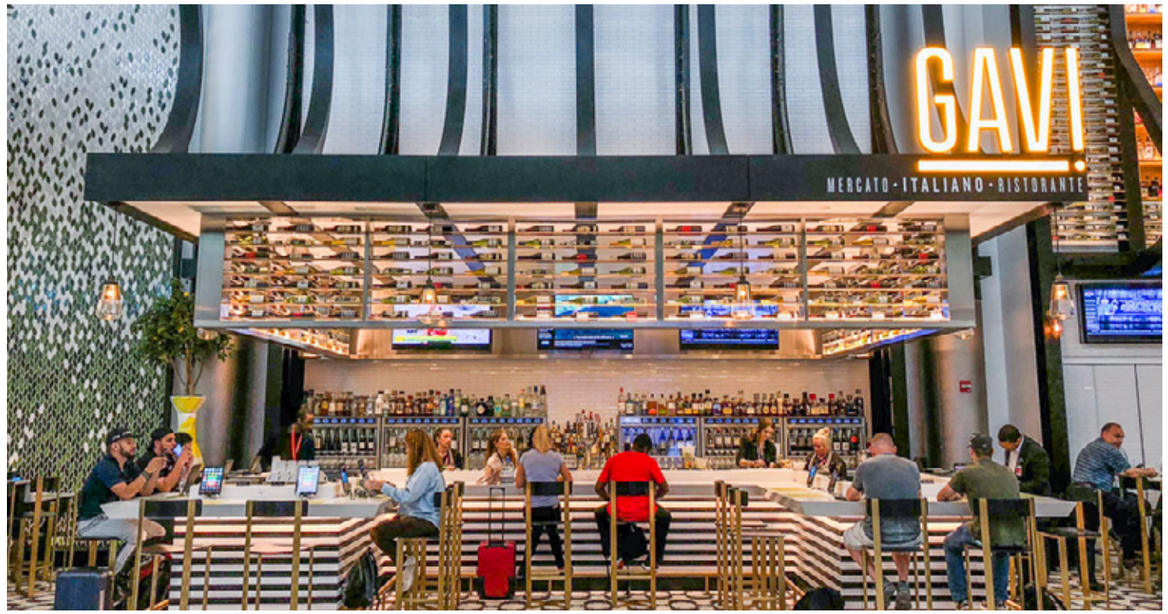
- Marble, granite, quartz, and other exotic stones.
- Metals including copper, stainless steel, chrome, aluminum in both polished and satin finishes.
- Sandblasted, cast, etched, back-lit glass.
- Glass tile, tile mosaics.
- Finished hardwoods of premium grade quality in accordance with American Woodworking Institute standards.
- Factory painted metal extrusions or panels.
- High performance or specialized paints and plasters.
- Accents of decorative resin panels.

Unacceptable Materials and Details

- Pegboard and pegboard fixture systems.
- Vinyl wall covering or wall paper.
- Carpet, fabric, or other textile materials.
- Shingles of any material.
- Plexiglass other than signs.
- Plastic panels.
- Anodized or mill finished aluminum.
- Painted gypsum board below 8'-6" AFF.
- Plastic laminate.
- Stucco, EFIS, or heavily textured plaster.
- Faux finishes of any kind.

The use of LED panels, flat screen monitors, plasma, LCD, or other video displays may be considered in a Tenant storefront facing the Airport concourse in Terminal A or B, provided the equipment is designed into the storefront composition and not a free-standing unit. Video screens located a minimum of 2'-0" inside their lease line are acceptable inside a Tenant's leased space.

Branded Storefront with Glass Wall



Unique Branding for Storefront

4 Embrace

In Terminal B, the storefront height will be determined by the base building soffit located above. In the “high soffit” condition, the storefront can have a maximum height of 13’-0.” In the “low soffit” condition (as in the north end of Terminal B), the maximum storefront height can be 8’-4”.

Storefront Construction

- Storefront shall be self-supporting.
- Entry height into storefront shall be a minimum of 8’-4” in Terminal B and 8’-0” in Terminal A.
- Storefront opening width shall be a minimum 6’-0”.
- For greater transparency, a storefront glazing system with minimal use of mullions or frames is recommended.
- Glass storefront systems that exceed 10’-0” in height shall be a minimum of ¾” thick. Architectural glazing clips or stainless steel fix point systems are required.
- All storefronts shall have a 10” high base of brushed stainless steel.

Additional Guidelines for Food and Beverage Tenants

- Tenants are encouraged to keep their storefronts open, without any glazing.
- Limited use of decorative panels is acceptable as an accent feature that carries the Tenant identity through colors, materials, and graphics.
- Low walls or rails may be used at the lease line to separate the public concourse from the Tenant space. Low walls or rails are required at lease line if alcohol is served. See *Section 3.4.7 Café and Alcohol Railings*.
- If low walls are used, they shall be glass or other suitable transparent or translucent materials and be as minimal as possible.

Storefront open to Concourse

Unique Ceiling Feature

3.4.3 Kiosk Storefront

Kiosk concessions are located along the west side of the concourse in Terminals A and B. These concessions are required to maintain views to the airfield, with no storefront walls, reference *Section 3.3.1*. Therefore, the kiosk storefront becomes the canopy, signage, railings, lighting, and interior design and furnishing of the kiosk. These elements will be relied upon to attract guests and convey the brand, and care should be taken to create unique and thoughtfully designed spaces.

- Entry and exit from the kiosk must comply with local jurisdiction and ADA requirements, and take into account passengers with luggage. A 6'-0" clear entry/exit opening must be provided.
- There shall be no physical barrier to the public except railing in concessions serving alcohol.
- All transactions are to take place within the kiosk.
- The kiosk shall be open with minimal framework. A maximum of one opaque full height wall is permitted. All other opaque walls are limited to 48" A.F.F. Reference *Section 3.3.1 Maintain views to airfield*.
- Kiosks are encouraged to be open. If glass walls are to be used, they should have minimal stainless steel mullions, fixed-point hardware connections, or vertical butt joint glazing.
- Components of the Tenant's construction may be floor supported. The edge-lit canopy and ceiling may be supported from the terminal structure above, if approved by the Airport.
- Minimum ceiling heights are 9'-10". Maximum height of the kiosk is 11'-0" above the finish floor for Food and Beverage kiosks (to help disguise venting) and 10'-0" for all other kiosks.

The use of LED panels, flat screen monitors, plasma, LCD, or other video displays may be considered in a Tenant storefront facing the Airport concourse in Terminal A or B, provided the equipment is designed into the storefront composition and not a free-standing unit. Video screens located a minimum of 2'-0" inside their lease line are acceptable inside a Tenant's leased space.

Additional Guidelines for Food and Beverage Tenants

- Food and Beverage Kiosks requiring ventilation through base building ceiling must obtain written permission from the Airport prior to construction.
- In the event that ventilation through the Airport ceiling is required, and the kiosk must therefore exceed the 11'-0" height limitation, any surface above 11'-0" must be set back a minimum of 3'-0" from the Tenant's lease line on all sides in order to maintain the visual lightness desired by these guidelines.

3.4.4 Floating Kiosks

Floating kiosks are small boutique shops located within the hold room seating areas or directly adjacent to the concourse. These high-end Tenants are encased inside very transparent forms where the merchandise itself is on display from all sides. With this in mind, the look of the merchandise and the Tenant's construction will be somewhat specific and will reinforce this concept of high-end display.

The materials, signage, graphics, and display concepts should work together to create the Tenant's kiosk as a glowing transparent object within the hold rooms and concourses.

- The enclosure shall not be greater than the agreed upon square footage.
- There is no restriction to the shape of the enclosure, other than it must meet these guidelines, be approved by the Airport, and be consistent with Accessibilty guidelines.

Bar Seating with Canopy

Transparent Storefront

Unique Retail Storefront

4 Embrace

Floating Kiosk Storefronts

Since the interior, as well as the exterior, of these kiosks will be visible to the public, kiosk design must be submitted to the Airport for review and receive approval before fabrication. This includes, but is not limited to layout, materials, furniture, graphics, displays, and lighting.

- The enclosure and premises shall be designed, fabricated, and installed by the Tenant at the Tenant's sole expense.
- The kiosk shall be an occupied space, where the airport traveler enters and walks through the interior. Flow-through retail concepts are encouraged.
- Materials and finishes should be representative of the high-end quality and craftsmanship expected by international travelers.
- The Tenant is encouraged to be creative and innovative regarding the display of merchandise and lighting.
- Graphics should be designed as a part of the space to complement the sophisticated design elements layered throughout the premises.

Tenants are encouraged to select high quality, richly-finished materials in the construction of their kiosk that are complementary to the character and image of the San Jose International Airport.

Acceptable Kiosk Materials

- Sandblasted, cast, etched, back-lit glass.
- Glass tile, tile mosaics.
- Accents of marble, granite, quartz and other exotic stones.
- Accents of metals including copper, stainless steel, chrome, aluminum in both polished and satin finishes.
- Accents of finished hardwoods of premium grade quality in accordance with American Woodworking Institute standards.
- Accents of decorative resin panels.
- Factory painted metal extrusions or panels.
- High performance or specialized paints and plasters.

Unacceptable Kiosk Materials

- Simulated versions of stone or wood.
- Brick or simulated brick.
- Pegboard and pegboard fixture systems.
- Vinyl wallcovering or wall paper.
- Carpet, fabric, or other textile materials.
- Rustic stone material, patterns, wood siding or shingles.
- Plexiglass other than signs.
- Laminate or translucent plastic panels.
- Anodized or mill finished aluminum.
- Painted gypsum board below 7'-6" A.F.F.

Unique Lighting Incorporated into Storefront

Unique Lighting Elements

3.4.5 Display Cases and Shelving

Encouraged for retail concessions.

Tenants are encouraged to build display cases into their storefronts, cash wraps, and service counters. Display cases highlight products and add interest to the concourse. Cases shall be very transparent, well-lit, contemporary in design, and highly refined. Display case content is to be well-curated and frequently updated.

All shelving within stores should be either painted or polished metal, tempered shatterproof glass, or solid core laminate. Painted or stained wood will be considered on a case-by-case basis as an alternative shelving material.

Specific Guidelines

- Display cases incorporated into counter fronts shall not be more than 4’-0” in height.
- Light fixtures illuminating the case shall not cause glare into the public view.
- Case framework shall be minimal using glass clip, fixed-point systems, or polished metal frames.
- Open shelving suspended around a bar is permitted at a minimum of 8’-0” A.F.F.

Tenants may choose to apply letters or logos on the inside surface of the display case glass. Letters and/or logos shall be sized appropriately to maintain clear views into the case.

Additional Guidelines for Food and Beverage Tenants

- All display cases shall be adequately lighted and vented toward the inside of the Tenant space only.

3.4.6 Counters

Concessionaires and Tenants shall be responsible for verifying design compliance with all applicable local, state, and national codes. Particular attention shall be given to the visual organization of the product display areas. Equipment layout, graphics, and materials shall be submitted to the Airport for approval.

- All counters must conform to the Americans with Disabilities Act (ADA) requirements and all applicable state and national laws.
- Approved countertop and counterfront materials include natural stone such as marble and granite; clear glass; brushed stainless steel; glazed ceramic tile; quartz surfaces, synthetic polymer solid surface such as Corian and Avonite; and wood with clear finish. Laminate countertops are not acceptable.
- Glass case counterfronts shall be a maximum height of 4’-0” above the finish floor. Casework glass shall occur no lower than 1’-6” above the finish floor.
- Provide concealed edge lighting in counter designs where appropriate.
- Recesses in the top counter surface for cash registers, point of sale equipment, etc. shall be set back a minimum of 6” from the front edge of the counter.

Additional Guidelines for Food and Beverage Tenants

- All Food and Beverage Tenants are encouraged to have a “take away” counter.
- The display of fresh and prepared foods is encouraged at the counter.
- Particular attention shall be given to the visual organization of the serving area.
- All food serving equipment, serving tray storage and rails, cup dispensers, utensils, straws, napkins, trays, etc. shall be fully recessed into the countertop in permanent holders and organized in a neat and orderly manner.
- Sneeze guards shall be architecturally compatible with counter design and in accordance with code.

Retail Display Example

Counter Example

Display Case Example

3.4.7 Café and Alcohol Railings

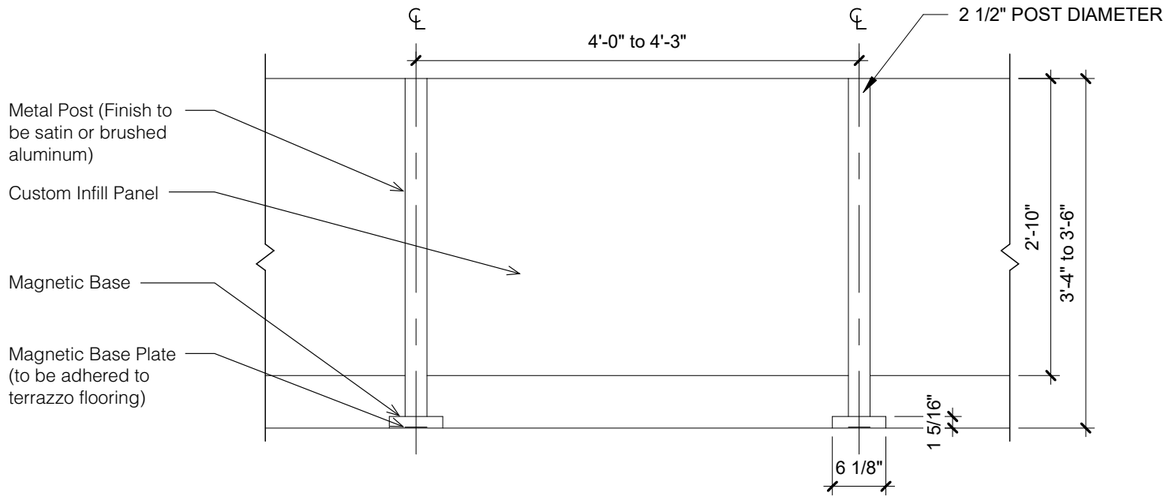
Required for all concession spaces that have café seating or serve alcohol.

A railing is required to delineate concession café seating space from the concourse, or areas that serve alcohol from the concourse. The railing is required to be a non-permanent element, that can be moved for cleaning. Attachments or penetrations through the concourse terrazzo flooring will not be permitted. The railing is required to have specific base, post, and infill panel sizes and spacings. See Café and Alcohol Railing Detail below for more information.

The infill panels can be custom, and designs should be consistent with overall Tenant design and branding. Possible materials include frosted tempered glass, acrylic, metal, and wood. Planters and planter boxes will not be permitted.

Recommended manufacturers:
Visiontron, Lavi Industries, or equal.
http://www.visiontron.com/
https://www.lavi.com/en/home

For café and alcohol railing technical requirements, reference Section 4.6.9 Café and Alcohol Railings.



Café and Alcohol Railing Detail

Café Railing Examples

Alcohol Railing Example

3.4.8 Queuing and Point of Sale

The point of sale may be digital and can be freestanding or integrated into a millwork assembly. Traditional point of sale shall comply with counter guidelines. Both digital and traditional point of sale locations shall be designed in concert with the overall design concept of the Tenant space and have an integrated appearance.

Queuing is to occur within the Tenant's leased space and is not allowed to impose upon the concourse circulation or adjacent hold rooms. Special consideration should be given to the queuing plan, which is to be submitted and reviewed by the Airport. Use of stanchions or similar temporary barriers is highly discouraged.

3.4.9 Base Building Architecture

Existing column covers in Terminal A and the west side of Terminal B should not be painted, wrapped or modified in any way. The Terminal B Air Columns on the east side of the concourse shall not be painted, wrapped or modified in any way, except as noted in *Section 3.5.8*. The air flow out of the air columns must be maintained and no concession element may block it. In Terminal B, the bulkhead on the west side of the concourse should not be blocked or altered by any concession element, except for attachment of blade sign support as noted in *Section 3.5.4*. The soffit and wood panel wall on the east side of Terminal B shall not be altered in any way except as noted in *Section 3.4.1*.

3.4.10 Closure Systems

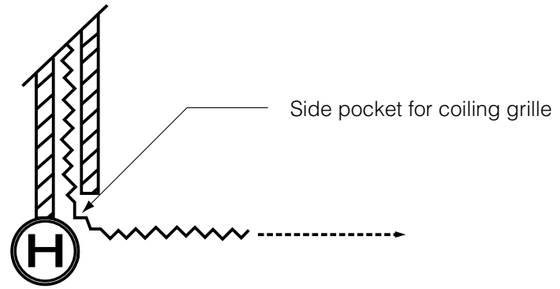
Required for all concession spaces.

In-Line Concession closure doors will be one of the following:

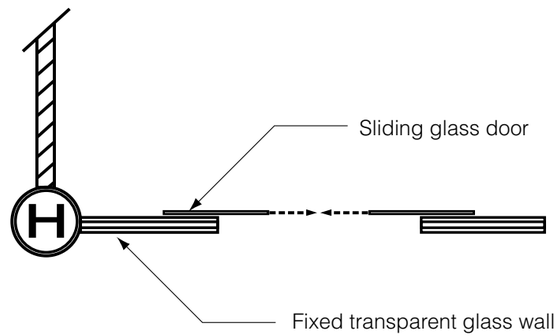
- Swing frameless glass doors on pivots with an eight (8) inch minimum high bottom rail in an approved finish.
- Single track sliding glass door with flush track.
- Aluminum and glass sliding doors with concealed storage.
- Sliding aluminum grille door with recessed top hung track in an approved finish. No floor track is allowed. Infill panels for folding screens to be tempered glass not Lexan.
- Rolling overhead aluminum grille with recessed side tracks.

If swing doors are used, a setback of thirty-six (36) inches minimum from lease line is required to allow for doors to swing. In the case of sliding storefronts at the lease line or if the closure is greater than thirty-six (36) inches, then the Design Control Area extends to the closure line.

Kiosk Closure:
A security gate or grille will be permitted to close off a bar or retail merchandise area from public areas and/or patron seating areas during closed hours. Roll down gates will not be permitted in locations on the west side of the concourse.



Closure Systems - Coiling Grille Example



Closure Systems - Sliding Door Example

5 Brand

Goal

Create consistent signage branding that is unique to SJC. Different signage types, including storefront sign, marquee signs, and blade signs allow clear visibility along concourse. Unique logos enable passengers to easily distinguish and be drawn to different concessions.

California Theater Marquee Sign

5 Brand

3.5.1 General Signage Guidelines

All Tenants are required to have two signs: A storefront sign, and either a marquee sign or blade sign.

Signage should establish and convey individual concession identity and brand, but also contribute to the overall San Jose International Airport streetscape environment. Imaginative, progressive, and creative signage is encouraged, but common elements present a unified concession environment to the guest. Signage shall be designed, fabricated, installed, and maintained by the Tenant at the Tenant's sole expense. All storefront signage is subject to Airport approval.

Tenant signage must not interfere with the Airport Wayfinding Signage. All signage is to be of the highest quality construction. Shop fabrication and painting is required. All wiring, raceways, transformers, etc. must be concealed. All signs, bolts, fasteners, mounting brackets, clips, etc. shall be of stainless steel, aluminum, brass, or bronze. No black iron materials of any type are acceptable. All signage must be installed as per national, state, and local codes.

Any signs requiring braille shall be compliant with the most recent version of the Title 24 Chapter 11B Accessibility Requirements and the Americans with Disabilities Act Accessibility Guidelines (ADAAG).

Garden Theater Marquee Sign

San Pedro Square Market Sign

State and Paramount Theaters Marquee Sign

Japantown Gate Sign

Blade Sign with Lighting

Acceptable Sign Types

Applicable to Storefront Signs, Marquee Signs, and Blade Signs.

1. Individual, internally-illuminated channel letters with back-lit acrylic or resin edge lighting:

- Laser cut acrylic, wood or metal channel letters, internally lit with LED modules. Sign letters may be painted, gilded, brushed, or polished metal.
- Illuminated sign faces can be specified with translucent materials in any color.
- Sign faces to be printed with special translucent inks, or a custom translucent vinyl.
- Style Options
  - » Fully illuminated (both letters and returns are illuminated).
  - » Front illuminated (only letter fronts are illuminated).
  - » Back-lit / Halo (letterforms are back-lit, creating a halo effect).
- A prototype is recommended to ensure proper spacing between letters and proper offset from the wall.

2. LED neon:

- Refer to renderings and precedent images for reference. Proposed signage to be reviewed and approved by Airport prior to fabrication.
- Recommended manufacturers:
  LED Neon Flex, Californeon, or equal.
  https://ledneonflex.com/
  https://www.californeon.com/

3.5.2 Storefront Sign

Required for all concession spaces.

Each Tenant will provide a maximum of one Storefront Sign and/or logo per storefront face. If a Tenant's storefront occurs on a corner, resulting in two storefront faces, one Storefront Sign will be permitted for each face.

For In-line concession spaces in Terminal B, Storefront signs can be suspended below or attached to the top of the Edge-Lit Canopy. For kiosks in Terminal B, and all concessions in Terminal A, the Storefront sign must be suspended below the Edge-Lit Canopy. Refer to precedent and render images.

3.5.3 Marquee Sign

Required for all In-line (east side) concession spaces in Terminal B.

Inspired by classic theater signage, the vertically oriented edge lit signage creates a modernized version of retro branding.

The sign shall have solid color, static LED edge lighting, vertical lettering, and color logo (where desired). Refer to precedent and render images.

Refer to Marquee Sign examples and Sign Detail 1 on the following page for more information. The Tenant must provide ample structural blocking behind the concourse's drywall fascia to support the weight of the marquee sign.

3.5.4 Blade Sign

Required for all kiosks (west side) in Terminal B, and all concessions in Terminal A.

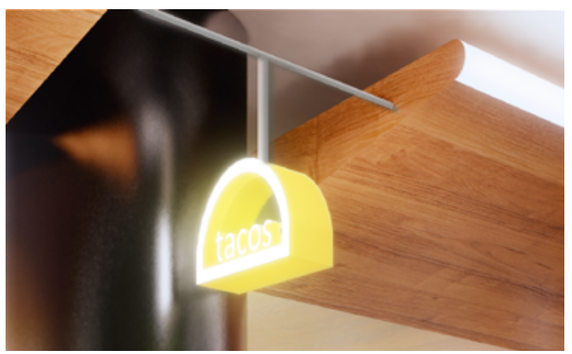
Blade signs are perpendicular to the storefront and the flow of passengers. Blade signs provide visibility from a distance to passengers in the concourse. They provide identity for the Tenants and are intended to convey the personality of the Tenant with text, logo, or three-dimensional objects.

The sign shall have solid color, static LED edge lighting, vertical lettering, and color logo (where desired). Refer to precedent and render images.

Refer to Blade Sign examples and Sign Detail 2 on the following page for more information. The Tenant must provide ample structural blocking behind the concourse's drywall fascia to support the weight of the blade sign.

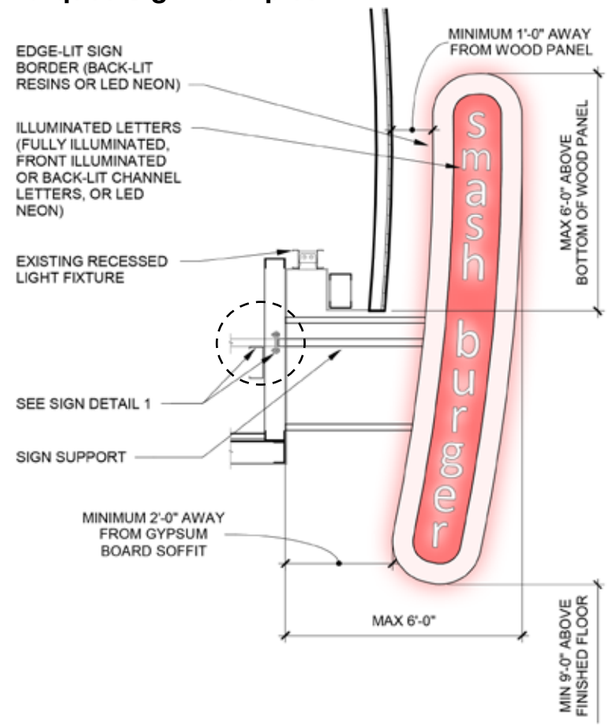
Storefront Sign Example

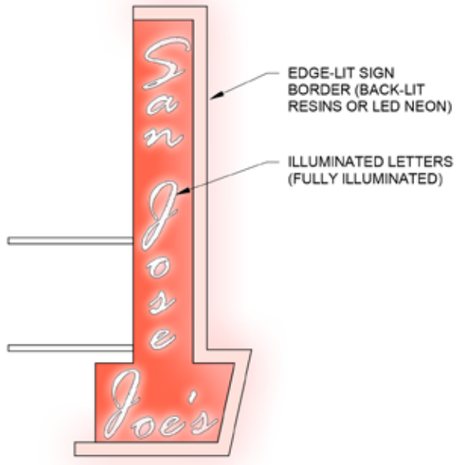
Marquee Sign Example

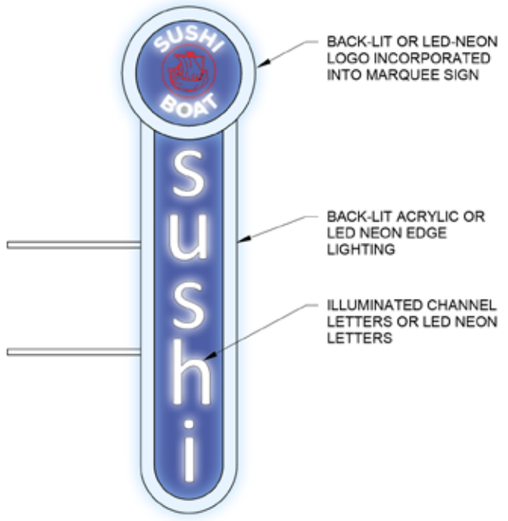


Blade Sign Example

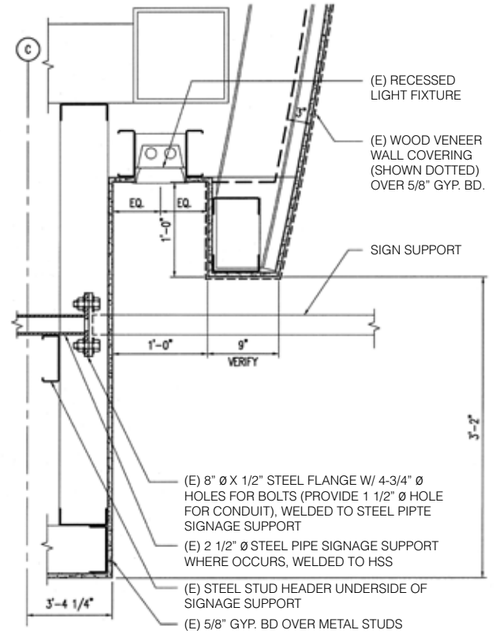
Marquee Sign Examples



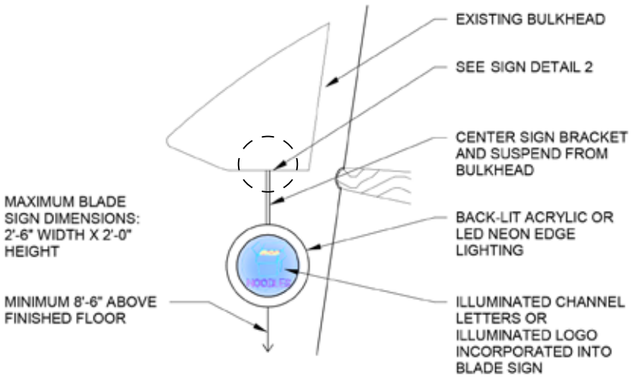


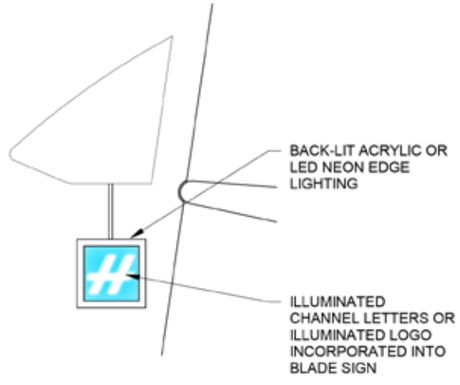


Sign Detail 1 - Terminal B Soffit Condition

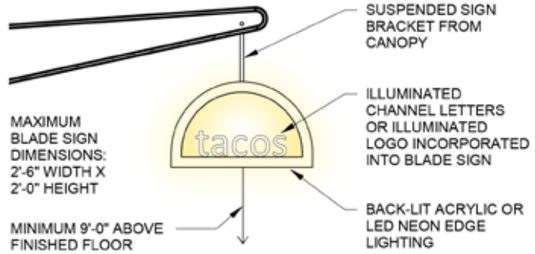


Blade Sign Example - Terminal B

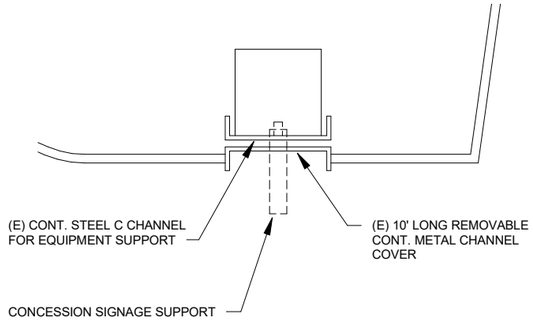




Blade Sign Example - Terminal A



Sign Detail 2 - Terminal B Bulkhead Condition



3.5.5 Promotional Signage

Promotional signage shall be displayed only within the Tenant's leasable space. Signage is not permitted to block or obstruct circulation spaces.

3.5.6 Store Hour and Health Inspection Signage

Required for all concession spaces.

All Concession Tenants at San Jose International Airport, in both Terminal A and B, are required to display their store hours in a visible and legible format. The following guidelines for the display of store hours is intended to provide a consistent, proven method for the required display of a Tenant's hours of operation. Both in-line and kiosk venues shall adhere to these guidelines. Suggested signage manufacturers include 2/90 Sign Systems, Apco, or approved equal.

Each Tenant will have a store hours sign that is split into two inserts. The top insert (3" tall by 6" wide) will contain the Tenant's logo and/or name. The bottom insert (4" tall by 6" wide) will contain the Tenant's hours of operation.

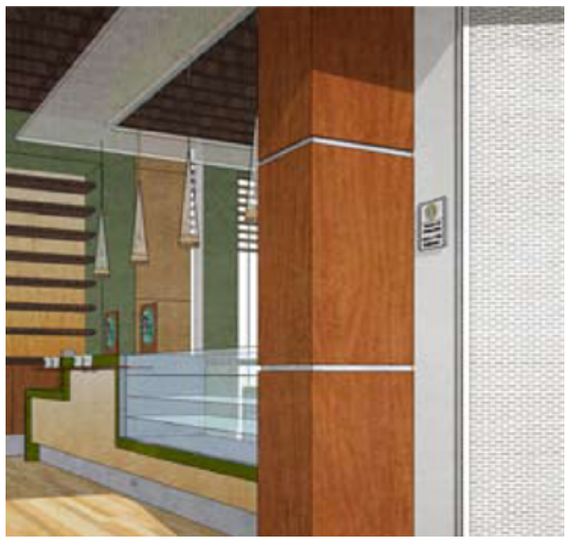
A durable insert material, such as aluminum or ABS, is highly encouraged due to high-traffic airport conditions. Tenants are encouraged to use the same insert material for both top and bottom inserts.

Similar to the insert material, Tenants are encouraged to select a high-quality, durable copy material that will stand the test of airport traffic. Durable forms of copy application, such as engraved and ADA are encouraged.

The Tenant's logo and/or name, located on the top insert, should be clear and easy to read. It is recommended that a professional graphic designer prepare the Tenant's logo art on the top insert in a logical, attractive arrangement. The bottom insert will contain the Tenant's hours of operation. The hours of operation must appear in 60 point Bank Gothic Medium typeface and should also be well-arranged by a professional graphic designer.

All Tenants, both In-line and kiosk, must center their 7" tall by 6" wide Modular sign 5'-0" above finish floor. Signs can be placed on the outside face, or inside corner of a tenants wall, column or vertical surface. If in-line concession tenants in Terminal B wish to attach a sign to the inside face of a base building air column return, pressure-sensitive installation must be used in this case. Store hours signs should be carefully located on a Tenant's storefront in an intentional, easily-seen location. When mounting a sign to a transparent or translucent material such as glass, care should be taken to obscure the back of the sign that will be visible from within the store. Proposed Store Hour Signage locations must be included as part of submittal package.

Typical Store Hours Sign



Store Hour Sign on Column Return

5 Brand

Rails
Rails are to be made of extruded aluminum and specified as thin. Top rail is 3” tall by 6” wide and bottom rail is 4” tall by 6” wide for an overall sign dimension of 7” tall by 6” wide.

Inserts
Standard inserts are ABS, aluminum or wood grain laminate. Tenant may choose appropriate insert that works with their overall venue design. Copy applications include vinyl letters, silkscreen, engraved, subsurface, photopolymer ADA, subsurface ADA, applied ADA and laser-print.

End Caps
End Caps must be used to secure inserts to rail. Tamper resistant feature is required.

Mounting Methods
Pressure-Sensitive Installation

- Pressure-sensitive mounting intended for smooth, hard surfaces. Not recommended for select wall coverings. May be used with Silastic bonding. When mounting on transparent storefront material such as glass, care should be taken to obscure back of sign visible from the store within.

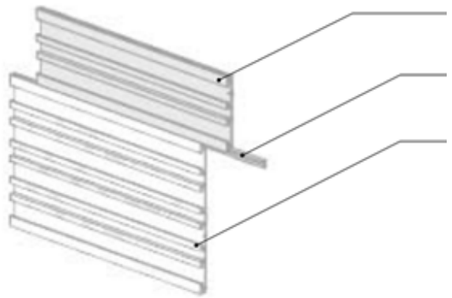
Screw-On Installation

- Screw-on mounting for surfaces where pressure-sensitive installation is not applicable.

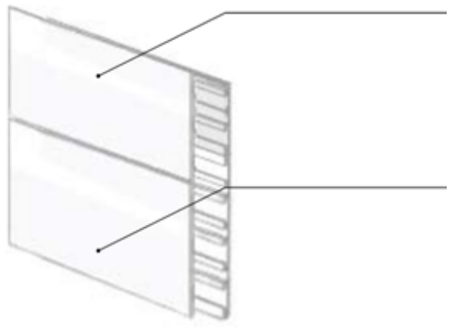
Health Inspection Signage
Storefront should also contain a interchangeable sign, similar in size and detailing to Store Hour Signage, to place health inspection results.

Pressure-Sensitive Installation

Screw-On Installation



Rails



Inserts

End Caps

3.5.7 Menu Boards

Menu boards are a key aspect in supporting the architectural design of each concession. Because of their importance, the design of these elements shall be produced by a professional graphic designer retained by the Tenant. In conjunction with this, any food photography must be produced by a professional food stylist. Tenants are encouraged to consider menuing as part of the overall composition of their space, and go beyond conventional placement standards. Traditional internally-illuminated menu boards will be prohibited. Tenants may choose to use LCD technology in their menu boards.

If Food and Beverage Tenants wish to have menu boards, the boards shall be produced to be an integral part of the venue's general design concept. The menu board layout, letter style, and quality of color illustration or photography, plus fabrication technique shall be submitted to Airport for review and approval prior to fabrication.

- Menu boards must be permanent in nature and shall be mounted behind the primary service counter, to an available wall surface, most likely on the wall behind the cash wrap.
- Customized menu boards with an artisan quality and illumination by surface light fixtures are most desired. Internally illuminated menu boards are not acceptable.
- Construction may be of smooth-finished or painted wood, metal, glass or resin panel.
- Individual, dimensional words attached directly to an opaque wall or surface (most likely on the opaque kitchen, refrigerator, storage enclosure, or canopy) is acceptable.
- The surface of the menu board must be of a non-glare material to ensure comfortable visibility and maximum legibility.
- The placement of the menu boards, their height above the floor, and the size of the text used in listing the menu items and prices shall be designed so as to be legible 5'-0" prior to the "order here" point in the queue.
- Photographs of food or beverage are not encouraged but are acceptable on the menu board provided they are designed as an integral part of the menu board. Photographs shall be professionally produced and must accurately represent the products being sold.
- Additional signage on the menu board is limited to one designated Tenant trade name or logo. Nationally and/or internationally recognized branded logos of menu items being offered are acceptable as additional signage subject to Airport approval.
- Movable, portable, temporary, and hand-written signs are not acceptable.

3.5.8 Air Columns

At high-soffit locations in Terminal B, a limited area at the top of the air columns can receive a vinyl wrap to tie in concession brand and/or color palette. Perforations within the air column may not be covered. Drawings are required for Airport approval.

Air Column Examples

Finish Material - Wall Example

3.5.9 Finish Materials

Floors

The floor finish material should be durable, high quality, and compatible with the design and brand of the concession. Tenants must choose a flooring material for their lease space that matches the building floor level at the lease line. If the Tenant chooses to install a flooring material that is of a different height than the adjacent building floor level, the Tenant is responsible for providing a code compliant transition between the lease space floor level and the building floor level.

Acceptable Flooring Materials

- Terrazzo
- Natural stone
- Marble
- Ceramic or porcelain tile
- Hardwoods
- Stained or polished concrete

Unacceptable Flooring Materials

- Sheet vinyl
- Resilient vinyl tile (VCT)
- Cork
- Painted or sealed concrete
- Carpet and carpet tile
- Laminated wood products (such as Pergo)

For flooring technical requirements, reference Section 4.3.1 Flooring.

Walls

Partitions should be clad in a decorative material selected from the list below and in harmony with the design concept for the space. A limited amount of wall may be painted in alignment with Tenant's design and branding. Special attention should be paid to specification of durable materials, especially in high traffic areas. Stainless steel corner guards may be recommended in high traffic areas.

Acceptable Wall Materials

All materials must be non-combustible, type 1A and fire resistant.

- Plastic Laminates – These must be shop applied. No imitation of natural materials such as wood or stone will be accepted. No plastic laminates are allowed on the storefronts or exposed corners or heavy traffic areas of the interior of the stores.
- Natural Materials – Materials allowed include marble, granite, travertine, solid wood, all natural wood veneers. Woods must be stained and/or sealed.
- Metals – Metals allowed include stainless steel, copper, brass, bronze, and anodized aluminum.
- Tile – Tile allowed includes ceramic and porcelain.
- Glass – Glass allowed includes tempered or laminated safety glass – clear, green, mirrored and back painted.

Other Wall Materials

These materials are not encouraged but may be permitted upon approval by the Airport.

- Glass Block
- Fabric and Canvas Finishes
- Vinyl or Fabric Wall Coverings

The Tenant must provide a durable, continuous, minimum 6" base around the perimeter of the lease space. The material must complement the flooring and must be compatible with the storefront finishes. Compatible materials may include stainless steel, stone, ceramic and porcelain tile, and marble. All materials are subject to Airport approval. Rubber, vinyl, and carpet bases are not acceptable.

For interior partition technical requirements, reference Section 4.3.4 Interior Partitions.

Ceilings

Ceilings are to be constructed of non-combustible, fire resistant materials. Continuing the canopy into the space as a ceiling element is a highly desired design solution. Other types of specialty ceilings such as wood slat, felt baffles, or metal ceilings are encouraged to add dynamism to the design concept. Acceptable standard materials include mineral fiber acoustic tile ceilings and gypsum board.

For ceiling technical requirements, reference Section 4.3.3 Ceiling Systems.

3.5.10 Colors

The color palette shall align with the branding and design concept of the Tenant. Consideration to avoid trendy colors is encouraged if not in direct alignment with the design. The Airport reserves the opportunity to recommend revisions to the proposed color palette.

Finish Material - Flooring Example

Finish Material - Ceiling Example

6 Light

Goal
Encourage lighting schemes that integrate into the concession and concourse design.

3.6.1 Storefront Lighting
3.6.2 Mood and Accent Lighting

Unique Accent Lighting Incorporated into Ceiling

6 Light

3.6.1 Storefront Lighting

Encouraged for all concession spaces.

At Edge-Lit Canopy, utilize integrated linear LED lighting; refer to renderings and precedent images for inspiration. Creative and unique accent lighting on the canopy, storefront, or storefront portal is also encouraged.

For lighting technical requirements, Reference Section 4.3.6 Lighting Systems and Criteria.

3.6.2 Mood and Accent Lighting

Encouraged for all concession spaces.

Accent lighting has the ability to transform the identity of a space. Tenants are encouraged to seek unique, attractive, and creative lighting designs which resonate with the brand and augment a memorable experience for the guest. Accent lighting is a key component of a multi-tiered lighting strategy and can become the key component of a successful design implementation. Refer to precedent images in this section and throughout this document for concession lighting design examples.

Pendant fixtures shall be of a consistent design throughout the space, with freedom to select from a family of similar products. At bar or open kitchen locations, fixtures shall maintain consistent spacing. LED under-counter lighting is encouraged along entire run of counters or bars.

A visual light element at the rear of the space is encouraged, as this is an opportunity for branding as well as luring guests into the depth of the space.

General lighting should maintain code required minimum light levels and create a welcoming feeling into the space. Lighting in kitchen, prep, and back-of-house spaces is to maintain code required light levels and conform to the Airport's general lighting standards.

Unique Lighting Fixtures

Unique Lighting above Bar

Concourse Lighting Incorporated into Concession Lighting

Variation 7

Goal
Encourage variety of seating, new dining opportunities, and flexible components to allow for new passenger experiences.

3.7.1 Fresh Food Market
3.7.2 Variety of Seating Options
3.7.3 Grab-and-Go
3.7.4 Shared Kitchen

Varied Seating Options

7 Variation

3.7.1 Fresh Food Market

Fresh food markets, sourcing local specialty items, help define the San Jose experience. Consider designing the space with multiple zones offering pre-cooked items, fresh cheeses and deli meats, bakery goods, and fruits and vegetables. Pre-prepared salads are acceptable; however, a salad bar concept is discouraged. A small dry goods area may be added to enhance the dining experience.

3.7.2 Variety of Seating Options

Encouraged for all Food and Beverage concessions.

Tenants are encouraged to create a variety of seating options for guests to define their own experience and privacy level. Examples include bar top, lounge, booth, banquette, chef's table, community table, and traditional two and four top seating. Tenants are encouraged to provide power to 50% or more of the seats.

3.7.3 Grab-and-Go

Units shall be premanufactured and must comply with all applicable building and health codes. Finishes should match the concept of the brand and be reviewed by the Airport prior to procurement.

3.7.4 Shared Kitchen

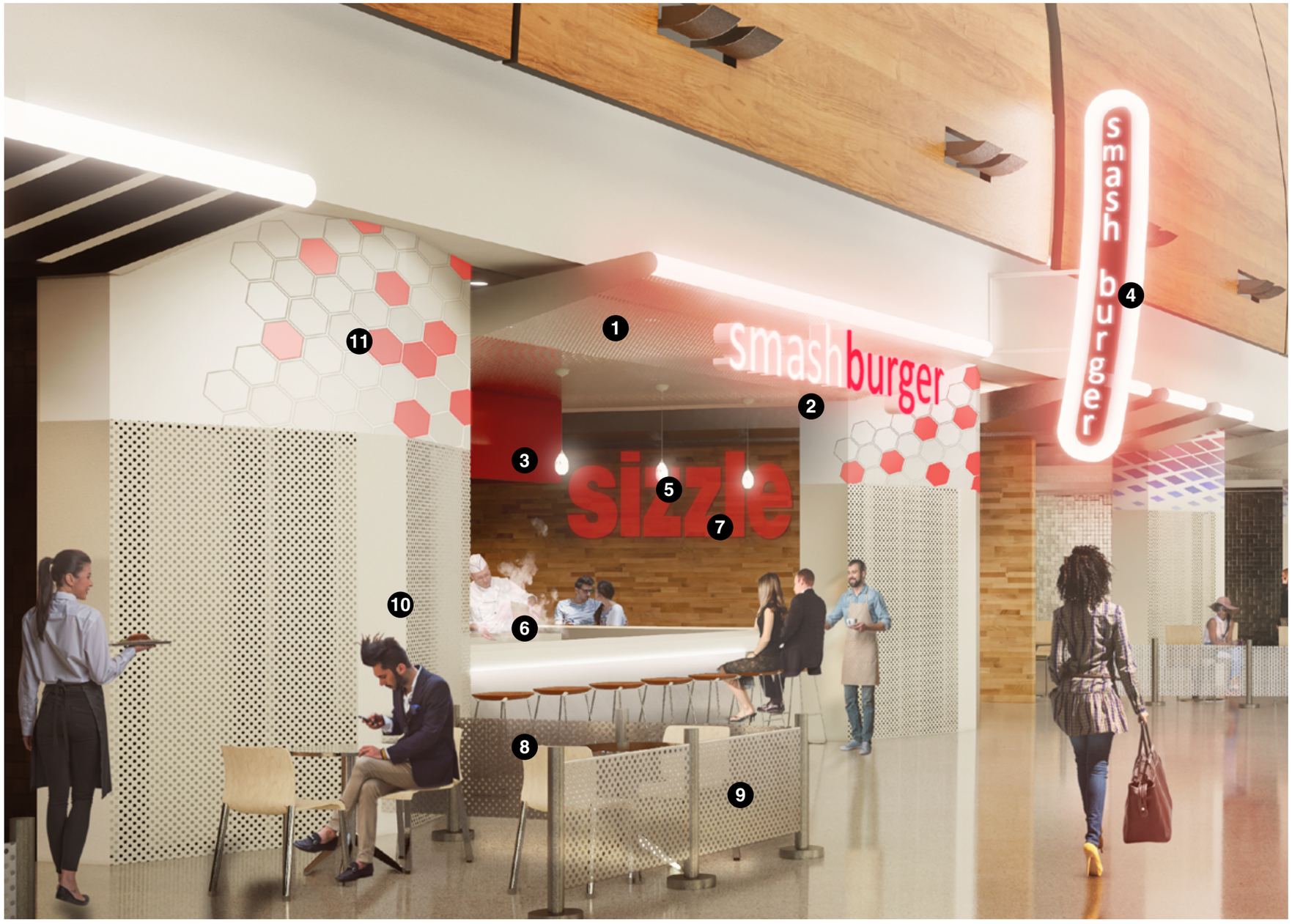
Within the marketplace concept, Tenants are encouraged to explore the possibility of shared kitchen facilities. When appropriate for the food concept, an open kitchen – ideally located near the concourse circulation – is recommended.

Food Hall

Grab-and-Go Merchandise

Varied Seating Options

Exhibit I: Terminal B In-Line Concession Example



1. 3.4.1 Edge-Lit Canopy
2. 3.5.2 Storefront Sign
3. 3.2.3 Front-of-House Kitchen
4. 3.5.3 Marquee Sign
5. 3.6.2 Pendant Lighting
6. 3.2.1 Experience-Driven Dining
7. 3.5.5 Interior Branding - promotional signage
8. 3.7.2 Variety of Seating Options
9. 3.4.7 Café Railing
10. 3.4.9 Base Building Architecture - Air Column
11. 3.5.8 Air Column - Branding

Exhibit II: Terminal B Kiosk Example

1. 3.5.4 Blade Sign
2. 3.4.1 Edge-Lit Canopy
3. 3.1.2 Gather - bar directly adjacent to concourse
4. 3.5.2 Storefront Sign
5. 3.4.6 Bartop with brand appropriate materials and undercounter lighting. Undercounter storage and equipment on bar side.
6. 3.7.2 Variety of Seating Options
7. 3.3.1 Transparency - only one solid wall on one side of kiosk
8. 3.3.1 Transparency - kiosks to maintain views to airfield
9. 3.6.2 Unique Accent and Mood Lighting
10. 3.4.7 Alcohol Railing
11. 3.4.9 Base Building Architecture - Bulkhead
12. 3.4.9 Base Building Architecture - Column

Exhibit III: Terminal A Kiosk Example

1. 3.5.4 Blade Sign
2. 3.4.1 Edge-Lit Canopy
3. 3.2.3 Front-of-House Kitchen
4. 3.6.2 Pendant Lighting
5. 3.2.1 Experience-Driven Dining
6. 3.3.1 Transparency - only one solid wall on one side of kiosk
7. 3.5.2 Storefront Sign
8. 3.4.6 Bartop with brand appropriate materials and undercounter lighting. Undercounter storage and equipment on kitchen side.
9. 3.4.7 Café Railing
10. 3.3.1 Transparency - kiosks to maintain views to airfield
11. 3.4.9 Base Building Architecture - Column

Exhibit IV: Marketplace Example

1. 3.4.1 Edge-Lit Canopy
2. 3.2.1 Experience-Driven Dining
3. 3.5.2 Storefront Sign
4. 3.5.3 Marquee Sign
5. 3.5.8 Air Column - Branding
6. 3.1.2 Gather - seating directly adjacent to concourse
7. 3.4.1 Marketplace Portal Edge-Lit Canopy
8. 3.2.3 Front-of-House Kitchen - with branding and sign shelf opportunities
9. 3.4.9 Base Building Architecture - Air Column

SJC

4. Technical Information

4.1 General Information, Code Compliance, and Reference Sheet

This part of the manual pertains to the technical design parameters which Tenants are required to observe. Each leased premise is a combination of design control elements within which the Tenant's designer must operate.

All Tenants must design their premises on the basis of accessible design as required by Local, State, and Federal codes.

Design Control Area

To ensure a high standard of presentation by each Tenant, and necessary continuity of base building design, the Airport has located Design Control Areas within the Leased Premises. The Design Control Area is the area within the Leased Premises that adjoins the common area of the terminal within thirty-six (36) inches of the lease line. Within this Design Control Area, the Airport may control aspects of Tenant's design.

Architectural, Mechanical, Electrical, and Plumbing Code Compliance

All Architectural, MEP/FP and Special Systems construction and alterations must comply with all applicable City, State and Federal guidelines, including:

- California Building Code, latest edition adopted by the City of San Jose.
- Title 24 of the California Code of Regulations, latest edition.
- County of Santa Clara Department of Environmental Health requirements.
- National Fire Protection Administration (NFPA) and State Fire marshal requirements.
- City of San Jose Department of Public Works Standards Specifications and Standard details.
- All Airport Design and Sign Standards.
- California Electrical Code, latest edition.
- California Mechanical Code. Latest edition.
- California Plumbing Code, latest edition.
- California Fire Protection Code, latest edition.
- California Energy codes, latest edition.
- Occupational Safety and Health Act (OSHA) standards
- The Americans with Disabilities Act (ADA) standards.
- Variances: In instances where two or more codes are at variance, the most restrictive requirements shall apply.

Standards: MEP/FP/SS Equipment and installation shall conform to applicable standards including:

- American National Standards Institute (ANSI).
- Electronics Industries Association (EIA).
- Institute of Electrical and Electronics Engineers (IEEE).
- National Electrical Manufacturers Associations (NEMA).
- American Society of Mechanical Engineers (ASME).
- American Society for Testing and Materials (ASTM).
- Air Movers Control Association (AMCA).
- Illuminating Engineering Society (IES).

Underwriters Laboratories (UL) listing is required for all equipment and materials where such listing is offered by the Underwriters laboratories or certified by Nationally Recognized testing Laboratory (NRTL).

4.2 Sustainability

The Airport supports the City of San Jose's Green Building Policy and strongly encourages all Tenants to incorporate sustainable practices in the construction and operation of their leased space. This includes utilizing renewable materials, products, and procedures, which have a low impact on the environment.

The following are recommended tools for incorporating Green Design:

California Green Building Standards Code (CALGreen) (Part 11 of Title 24)

- http://www.bsc.ca.gov/Home/CALGreen.aspx
- Non-residential Mandatory requirements apply to building alterations with a project permit valuation of $200,000 or more.

LEEDv.4 – ID+C Interior Design and Construction

- https://www.usgbc.org/articles/getting-know-leed-interior-design-and-construction-idc
- LEED for Interior Design and Construction (LEED ID+C) enables project teams, who may not have control over whole building operations, the opportunity to develop indoor spaces that are better for the planet and for people.

California Green Business Network

- https://greenbusinessca.org/
- The California Green Business Network leads the state and nation in working with small to medium sized businesses to create a green economy.

Green Seal

- http://www.greenseal.org/Home.aspx
- In accordance with the City of San Jose's Environmentally Preferable Purchasing Policy (EP3), it is recommended that Tenants incorporate products that are approved by the non-profit organization "Green Seal" where possible.

Consideration of the following environmental criteria should be given when choosing materials:

- Rapidly renewable materials (i.e. bamboo, linoleum)
- Recycled content materials (i.e. ceramic tiles, ceiling tiles)
- Forest Stewardship Council (FSC) certified wood
- Low emitting paints, adhesives, sealants and composite wood products
- Local/Regional materials

4.3 General Building Requirements

4.3.1 Flooring

1. The Tenant and its contractor will not cut holes or openings of any description in any part of the structural floor slab without prior written approval from the Airport.
2. Tenant's contractor must scan the floor area prior to core drilling of structural slats to avoid structural elements and utilities. Results of the scan must be provided to the Airport upon completion.
3. The maximum live load shall not exceed 100 PSF.
4. The Tenant shall choose a flooring material within the lease space that matches the building floor level at the lease line. Should the Tenant desire to install a flooring material that is of a different height than the adjacent building floor level, the Tenant is responsible for providing a code compliant transition between the lease space floor level and the building floor level. Depressed floor slabs will not be permitted. All structural modifications and infills must be approved by the Airport and installed by a qualified contractor.

4.3.2 Waterproofing Requirements

1. All flooring must have a reinforced impermeable waterproofing system with a minimum wall application of 8'' high. The waterproofing system is required to be tested and inspected by a qualified inspector for water tightness.
2. Recommended products include Schluter Ditra Uncoupling Membrane, NobleSeal TS, or equal. Installation and detailing of these systems are to be per manufacturer's specifications and recommendations.
3. It should be verified by the Tenant's design team that the waterproofing product is appropriate for the flooring material specified.
4. All architectural penetrations through the flooring material are required to be sealed per the waterproofing system manufacturer's specifications and recommended details so that any liquid on the floor will not leak through the penetrations.
5. Tenant is required to conduct 24-hour flood testing. The Tenant will submit an MOP to the Airport Project Coordinator and the AHJ for review. The 24-hour flood test must have a minimum of 1 inch of water.

4.3.3 Ceiling Systems

1. Accessible-type ceilings shall be provided in all areas where existing mechanical ducts, conduit raceways, shut-off-valves, etc. are located.
2. Suspended ceiling panels, if installed, shall meet the following physical properties:
    - » Surface Burning Characteristics
        - ◊ Flame spread: Maximum of 25, UL Class
        - ◊ Smoke Development: 50 or less
    - » Sound Transmittance Coefficient (STC) - 30 minimum
    - » Noise Reduction Coefficient (NRC) - 0.45 minimum
3. Suspended ceiling support systems, if installed, shall conform to the following requirements:
    - » Suspension systems shall not be visible from the concourse or adjacent stores.
    - » Suspension systems shall be grid type, either exposed or concealed, to accept various types of ceiling panels and/or gypsum wallboard.
    - » System components shall support the ceiling assembly with a maximum deflection of 1/360 of the span of any component.
    - » Where a suspension system is to be installed in a high moisture environment, such as commercial kitchen, use of roll formed aluminum grid shall be required.
    - » Ceiling systems shall be supported directly from the structure or may be indirectly supported by a secondary intermediate support system, which will provide stiffness equal to that of the originally tested elements.
    - » All access panels, grills, and diffusers are to be mounted in the ceiling and painted to match.

4.3 General Building Requirements

4.3.4 Interior Partitions

1. The base building will provide demising walls as indicated on the lease exhibits. The Tenant is required to maintain separation requirements as reflected in the lease exhibits. If fire rated walls or other existing construction must be opened or cut through to extend services to a lease space, the tenant must preserve the original rating and construction.
2. Use metal studs only.
3. Tenants must comply with acoustical requirements in the demising wall per the Sound Transmission Class (STC) Planning Matrix in *Section 4.3.7 Acoustics and Public Address System*.
4. Wall construction will include fire rated gypsum board as required by the base building architectural documents.
5. All tenant walls are to be finished. Paint finish, if utilized, will be primer and two coats quality Latex. Paints that do not exceed VOC and chemical component limits of Green Seal's Standard GS-11 requirement should be considered. If other materials are used, reference *Section 3.5.9 Finish Materials*.
6. Permanent attachment to structure must be approved by the APC.
7. Tenants are permitted to furr-out around columns with systems that are self-supporting or free standing within their lease space. If heavy shelving or attachments are to be installed, the demising wall must be reinforced.

4.3.5 Visible Store Tops

1. Where the top of a store is exposed to views from above, the Airport requires that the top of the store be finished. Designs and materials, which are consistent with the architectural detail of both the store and the terminal in which the store is located, and which require minimum maintenance, should be used.
2. No conduit, wiring, plumbing, or mechanical apparatus shall be visible from above or below.
3. No storage is permitted on store tops.
4. Access doors and ladders must be designed into the space.
5. Store tops should be designed so as to allow for minimal accumulation of dust and debris.

All store tops shall be maintained and cleaned on a regular basis.

4.3.6 Lighting Systems and Criteria

All lighting to comply with the following requirements.

4.3.6.1 Lighting General Requirements

1. All lighting is to be LED.
2. Lighting fixtures shall meet the requirements of this Design Criteria Manual as well as the building code requirements of exit and emergency lighting including handicapped accessibility standards.
3. Lighting shall be compliant with Title 24 Building Energy Efficiency Standards.
4. Breaker switching is not permitted.
5. Lighting dimmers are permitted.
6. High efficacy lamps with color temperatures between 2700 degrees Kelvin and 3500 degrees Kelvin with a Color Rendering Index of 80CRI or higher, are required. Light-emitting diodes (LED) are the standard unless not feasible. Any other lighting sources must be Approved by the Airport. Other, more efficient lighting types may be acceptable as they become available. Electronic ballasts, low voltage transformers, switches and dimming equipment shall be used as required for a complete installation.

4.3.6.2 Code Compliance

All lighting must be Title 24 (T-24) compliant. Some of the T-24 requirements are outlined below. The tenant is responsible for compliance with all T-24 requirements based on latest Code Edition.

1. Certificates of Compliance are required to be submitted at the time a building permit application is submitted. Certificates of Compliance provide all design information necessary to show that the proposed project will comply with Energy standards. Construction may not begin until Certificates of Compliance are reviewed and approved.
2. Certificates of Installation shall be signed by a person with an approved license. Certificates of Installation certify that installed equipment and system meet or exceed the design criteria specified in the approved Certificates of Compliance. Code enforcement officials may conduct field inspections to verify information submitted by builders.
3. At the end of construction, Certificates of Acceptance verify that an acceptance test has been performed by qualified contractors on all specified systems to ensure they are installed correctly and function adequately. If inspections or the acceptance test identify noncompliant or nonfunctional systems, these defects must be fixed.
4. Manufactured lighting equipment, products, and devices must be appropriately certified by the Energy Commission (Appliance Efficiency Regulations - Title 20 California Code of Regulations). In addition, all components of the systems considered together as installed shall meet all applicable requirements for the application for which they are installed.

4.3 General Building Requirements

4.3.6.3 Lighting Controls

1. The following lighting controls systems must comply with the applicable part of the Title 20 Appliance Efficiency Regulations: Time switch Lighting controls (Automatic, Astronomical, Multi-Level Astronomical, Outdoor astronomical), Daylighting controls (Automatic Daylight controls, Photo controls), Dimmers, Occupant sensing controls (Occupant sensors, Motion sensors, Vacancy sensors, Partial on sensors, Partial off sensors).
2. Indoor Lighting controls shall meet all mandatory requirements including: Area controls, Multi-Level Lighting controls, Automatic Shut-off Controls, Automatic Daylighting Controls and Demand Responsive Lighting Controls.
3. Outdoor Lighting controls shall meet all mandatory requirements including: Automatic Shut-off Controls, Independent Controls, Controls for Luminaires mounted below 24 feet and application specific controls.
4. Sign lighting controls shall include Automatic Shut-off controls and dimming controls. Outdoor lighting signs shall have a photo control in addition to an automatic time-switch control or shall have an astronomical time-switch control.

4.3.6.4 Storefront Lighting

1. Ambient lighting from the public concourse will not be sufficient to illuminate the Design Control Area (DCA) and create the desired visual impact needed for retail applications. A high level of illumination (50-100 foot candles at the floor) shall be provided by the Tenant within the DCA. These are for temporary egress lighting and will be on the emergency power circuit. The recommended storefront lighting levels and contrast ratios are listed below.
2. Lighting in the DCA and particularly on the storefront and store entry is restricted as follows
    - » Light sources utilized for this purpose must be LED.
    - » Provide a minimum of 100 foot-candles (fc), maintained at the floor level of the DCA.
    - » Lights must be selected and placed to avoid glare to the public concourse.

Storefront Lighting Level Matrix		
	Maximum Contrast Ratio	Minimum Maintained Illuminance
Show Windows - General	3:1	150fc
Shop Windows - Display	5:1	250fc
Floor at Shop Entry (Storefront Control Zone)	3:1	100fc

4.3.6.5 Additional Lighting Requirements

1. Prohibited types of interior lighting include:
    - » Moving
    - » Exposed Neon (LED Neon is acceptable)
    - » Strobe (except for fire alarms and barrier-free fixtures)
2. All fixtures are to be high standard.
3. All track lighting, except previously approved decorative track fixtures, shall be installed out of public view.
4. All illuminated signs, graphics, and lighting within the Design Control Area will be on separate time clocks connected to the Tenant's distribution panel. The Airport will set hours of operation, and Tenant must follow.
5. The lighting level within the concessions is very important in helping to create an open and inviting atmosphere. The actual level of lighting necessary will vary by unit location and type; however, even if a specific shop desires "ambient lighting" to create an atmosphere, it is important that enough light be provided to ensure that consumers can pass safely through the area.
6. Excessively bright lights waste electricity and become a visual nuisance both to the consumers and to the overall image of the Concessions Program. A recommended maximum of one hundred (100) foot candles for general internal lighting is suggested. Care must be taken to ensure that spotlights do not raise temperatures in the shop above comfortable levels.
7. Spot lighting of specific displays, as long as the maximum illumination levels are not exceeded, and the light does not create "glare" visible from other shops or public walkways, is permitted. However, the number of spot lights utilized in a single shop may be limited at the Airport's discretion.
8. Exposed raceways, crossovers, conduits, conductors, transformers, and other equipment are not permitted.

4.3 General Building Requirements

4.3.7 Acoustics and Public Address System (Voice Evacuation System)

1. Tenants are required to minimize the transmission of sound from their lease space to the concourse and adjacent tenants.
2. The Tenant must provide the following as a minimum:
    - » Noise Criteria (NC) Values complying with the Heating, Ventilation, and Air Conditioning (HVAC) systems as generally accepted practice by the American Society of the Heating, Refrigeration and Air Conditioning Engineers (ASHRAE), Sound and Vibration Chapter 46, Table 34 Design Guidelines for HVAC-Related Background Sound in Rooms, latest Edition. NC Level outside a tenant space as a result of the HVAC system should be limited to NC 40 in any adjacent occupied space or Airport lease space.
    - » HVAC systems and equipment will be installed with vibration isolators as accepted practice by ASHRAE, Sound and Vibration Chapter 46, Table 45 Selection Guide for Vibration Isolators, 1999 Edition.
    - » The minimum Sound Transmission Class (STC) value between tenant spaces for non-critical noise intrusion is STC 47.
    - » Minimum partition STC for critical noise adjacencies such as beverage tenants, food preparation, cleaning areas, and dish washing adjacent to sensitive tenant STC 55 with consideration for plumbing noise vibration isolation. Higher STC values may be required based on space planning. See the STC matrix outlined below.
    - » Space planning for adjacent tenants will need to be considered and the Tenant's Design Team should inquire as to adjacencies.
    - » Impact Isolation Criteria (IIC) will be a minimum of 50 for all hard surfaced floor areas above occupied spaces.
    - » All waterproofing underlayment material must also be rated to increase the IIC class of the floor assembly. Examples of isolation underlayment material manufacturers are:
        - ◊ Noble Seal
        - ◊ NCA Products
        - ◊ Ekasonic
        - ◊ Kinetic Noise Control
    - » Music, video, and television entertainment and background paging systems are permitted with Airport approval. However, the volume of sound must be controlled to limit the levels to the lease space boundaries and not intrude into the adjacent lease spaces or the public concourse, so that the Terminal Background Paging System and Emergency Messaging System can be clearly heard without interference from lease space sound systems. The noise from any lease space to the exterior shall not exceed 6 dBA above the ambient level. The ambient level is 50 dBA; therefore, the maximum level for the lease space will not exceed 56 dBA. The Tenant must have a technical equipment contractor ready to repair any such technologies that do not comply with Airport standards.
3. Sound Transmission Class (STC) Planning Matrix: Tenants will be required to maintain minimum STC rating for the interior partitions per the following matrix.

	Business Center	Café	Concession Storage	Duty Free	News	Passenger Service	Quick Serve	Retail	Sit Down	Terminal	Toilet
Business Center	X	50						45		45	
Café	50[1]	X		45	45					45	
Concession Storage			40							40	
Duty Free		45		X		45		45		45	
News					X				45	40	50[1]
Passenger Service						X				40	50[1]
Quick Serve							X			40	50[1]
Retail	45							X		45	50[1]
Sit Down					45		45	45	X		50
Terminal	45	45			40		40	40	45	X	
Toilet					50[1]		50[1]	50[1]			X

1) Double wall to isolate plumbing noise

4. The voice evacuation system provided for fire alarm annunciation is located throughout the Airport, and serves as the main terminal public address system when not in use for fire related functions. The evacuation system is distributed throughout the Terminals, including the concession lease spaces. The tenant is required to incorporate this system in their lease finish-out and use the designated Airport contractor for modifications, installations and testing. However, any tenant music, video, or multimedia system must not be tied into the Airport's voice evacuation system, with the exception of muting in the event of an emergency voice evacuation message.

4.4 Building Systems

The Airport's building systems are designed to satisfy requirements of the design standards for the Airport functions and responsibilities for office areas, ticketing areas, the public concourse and holdrooms. The basic Airport design criteria is typically not sufficient to support concession development. Supplemental requirements or unique conditions of concession tenant development may demand that supplemental equipment be installed by a contractor qualified to perform work at the Tenant's expense.

Plans must show all routing and connections of new services to existing lines, ductwork, piping, telephones, distribution switchboards, or distribution panels. The tenant must demonstrate that existing utilities will support new lease space design loads, and provide to the APC completed heat loss/gain and electrical power calculation forms.

4.4.1 Mechanical

1. The Tenant must verify the existing air supply to the lease space and determine how much more, if any, is needed. The Heating, Ventilation, and Air Conditioning (HVAC) design of each lease space must meet the following criteria:
    - » Heating – Winter inside comfort design temperature: 75°F db.
    - » Cooling – Summer inside comfort design temperature: 75°F db.
    - » Outside design temperatures – As indicated in the current edition of the ASHRAE Handbook of Fundamentals, 2½% conditions.
    - » Chilled water coils should be designed for a 28°F temperature differential.

    The existing maximum supply air to lease areas is calculated at 2.4 cfm/s.f. The Tenant is responsible for supplying supplemental HVAC if additional conditioned air is required because of increased loads in the lease space.
2. The Tenant shall provide the engineering design and installation of the HVAC system including the following:
    - » All medium pressure ductwork from the main trunk ducts to the Variable Air Volume (VAV) boxes, including duct taps and control dampers.
    - » Fan powered VAV boxes and modifications to the temperature control system, depending on the existing system in the lease area.
    - » All low-pressure ductwork, including that necessary for supply, return air, exhaust, and make-up air.
    - » All grilles and diffusers for supply, return air, exhaust, and make-up air.
    - » All required controls. All equipment must be Delta controls compatible with existing direct digital and direct analog controls (DDC and DAC), used in the terminal.
    - » A heating system using fan powered VAV boxes with hot-water coils and the required heating-water piping with strainers on incoming water lines.
    - » All supplemental cooling and heating service must be designed by the tenant's engineer and installed by a qualified contractor. Supplemental chilled and heated water air-handling units may be installed within the Tenant's lease space or, with special Airport approval, may be installed at locations as directed and approved by the APC. Air handling units shall be double-walled, insulated units.
3. All mechanical must be Title 24 (T-24) compliant. Some of the T-24 requirements are outlined below. The tenant is responsible for compliance with all T-24 requirements based on latest Code Edition.
    - » Certificates of Compliance are required to be submitted at the time a building permit application is submitted. Certificates of compliance provide all design information necessary to show that the proposed project will comply with Energy standards. Construction may not begin until Certificates of Compliance are reviewed and approved.
    - » The compliance document shall include Field Inspection Checklist.
    - » At the end of construction, Certificates of Acceptance verify acceptance tests have been performed on all specified systems and equipment to ensure they are performing in accordance with the Energy Standards.
    - » The installing contractor, engineer of record or owner agent shall be responsible for documenting the results of the acceptance test. They shall be responsible for issuing a Certificate of Acceptance.
    - » Mechanical equipment must be certified by manufacturer as complying with the mandatory requirements of Title 20 Appliance Efficiency Regulations. It is the responsibility of the designer to specify products in that meet these requirements.
    - » Mechanical equipment shall meet all mandatory requirements including: Equipment requirements, Ventilation Requirements, Pipe and Duct Distribution Systems requirements, HVAC System Control requirements and Water Heating Requirements.

4.4 Building Systems

4.4.1 Mechanical (continued)

4. Mechanical work may require a permit by the AHJ depending on scope. If required, a fee will be collected before the job can start and the work must be inspected upon completion.
5. The Tenant is responsible for maintenance of mechanical systems in the lease space.
6. Labeling for mechanical equipment shall have high durability. Labels for outdoor locations shall be waterproof and ultraviolet (UV) resistant. Permanent markers shall not be used for labeling.
7. Mechanical drawings shall be signed and stamped by a Professional engineer registered in the State of California. Engineers shall include the expiration date of their registration when they sign, seal or stamp all mechanical design documents produced for the City of San Jose.
8. Maintain waterproofing of floors, walls, and roof.
9. The tenant is responsible for the installation of all equipment, ducts, diffusers, insulation, controls, appurtenances, and electrical connections required for the maintenance of required conditions in lease space.
10. 2-Way type control valves are required for HHW and CHW modulation, unless otherwise directed by the Airport.
11. Tenant shall provide horizontal suspended fan coil units within the ceiling plenum of their space and connect to capped, chilled, and heating water piping to provide heating and cooling. The Tenant shall connect to outside air ductwork for code required ventilation air.
12. The Airport will determine if return air from the premises can be recirculated.

4.4 Building Systems

4.4.2 Electrical

1. The Tenant is responsible for the engineering design and installation of a complete and functional electrical service for the lease space. Panels and transformers are to be located within the lease space, unless otherwise approved in writing by the APC. Service voltage will be 277/480v, 3-phase, 4 wire.
2. Electrical Permits: If a new electrical circuit is added, the AHJ electrical inspector will need to inspect. A fee will be collected before the job can start.
3. Dedicated circuits shall be provided by concession tenants for their equipment, and should be tied into their panel boards. Small Tenants without tenant panel(s) shall obtain dedicated circuit(s) from the closest available electrical panel. No Tenant equipment shall be connected to Airport's circuits or receptacles. Exception to this only with prior approval by Airport's authority.
4. Electrical drawings shall be signed and stamped (or sealed) by Professional electrical engineer registered in the State of California. Engineers shall include the expiration date of their registration when they sign, seal or stamp all electrical design documents produced for the City of San Jose.
5. The Tenant engineer is required to ensure that capacity is available and determine source. The Tenant engineer is responsible to hire any needed electrical contractor to take test reading for capacity and to field check any and all needed circuits.
6. Any outdoor lighting changes or additions, including temporary construction lighting, must be coordinated with Airport Operations to ensure there are no impacts to the Air Traffic Control Tower visibility.
7. Show north arrow and graphic scale(s) for all scaled plans and details.
8. All wires and busbars shall be copper, aluminum wires or busboards are not allowed.
9. MC cables are not allowed behind walls or in other concealed spaces; they must be in an accessible space.
10. Use minimum ¾" conduit for all wiring. Call out a neutral conductor for each circuit when running multiple circuits in the same conduit. Use minimum No. 12 AWG "THWN" conductors for power circuits, and minimum No. 14 AWG "THWN" for control circuits. No. 10 and smaller should be solid, No. 8 and larger should be stranded.
11. Identification of all branch circuits shall be based on field verification. Relying on as-builts alone is discouraged.
12. Location of all duct detectors shall be shown on as-built drawings. As-built drawings shall include all concealed wiring and equipment location. Signage for all equipment should be provided on ceiling grid T-bar. The signage should be small and concealed as much as possible.
13. Tenants are required to provide metering for load checking.
14. Metering for Tenant(s) is provided only for load checking, billing is done per square feet.
15. Labeling for electrical equipment shall have high durability. Labels for outdoor location shall be waterproof and ultravoilet (UV) resistant. Permanent markers shall not be used for labeling.
16. Electrical equipment shall be energy efficient. Low voltage dry-type distribution transformers shall comply with T-24 certification requirements. Power distribution system shall comply with latest T-24 requirements.
17. Voltage drop: The maximum combined voltage-drop on both installed feeder conductors and branch circuit conductors to the farthest connected load or outlet must not exceed five percent. The maximum allowed voltage drop on feeders is 2%.
18. Height requirements for: receptacles, light switches, disconnect switches, card readers, thermostats, alarm controls and similar devices must meet all applicable accessibility standards. Minimum height measured from the finished floor to the bottom of the outlet box shall be 15 inches. Maximum height from floor to the top of the outlet box shall be 48 inches. If the reach is over an obstruction, such as a kitchen base cabinet with a depth of 20 to 25 inches, the maximum height is reduced to 44 inches for forward approach and 46 inches for side approach. Outlets that do not satisfy these specifications are acceptable only if comparable outlets that meet the specifications are provided within the same area and are accessible.
19. Ground fault circuit interrupter (GFCI) protection is required at locations for 15 and 20 amp receptacles. GFCI protection must be installed in readily-accessible locations including kitchens, bathrooms, indoor wet locations, locker rooms with showers, outdoor areas, garages, rooftops, and within 6 feet of the outside edge of any sink. Each cover plate must be permanently marked. A GFCI device must be used when replacing receptacles in locations that are required to be GFCI.
20. Receptacles for heating, air-conditioning or refrigeration equipment on a rooftop must conform to the following requirements: A receptacle must be located on the same level and within 25 feet of the equipment. Exterior receptacles, electrical devices and their cover plates must be suitable for the environment in which they are installed. When exposed to rain or water conditions, electrical devices must be listed for "Wet Locations."
21. Switches serving light fixtures require a neutral conductor to be brought to the outlet box.
22. All exterior conduit installed below 10' must be rigid steel.
23. Electrical work may require a permit by the AHJ depending on scope. If required, a fee will be collected before the job can start and the work must be inspected upon completion.
24. Electrical drawings shall be signed and stamped by a Professional engineer registered in the State of California. Engineers shall include the expiration date of their registration when they sign, seal, or stamp all electrical design documents produced for the City of San Jose.

4.4 Building Systems

4.4.3 Emergency Power

1. Tenant shall relocate all Exit signs to suit the Tenant design fit out.
2. All Exit signs shall be connected to an Emergency Lighting Circuit.
3. Exit signs shall be illuminated.
4. The Tenant shall not be provided standby power.

4.4.4 Plumbing

1. The Tenant is responsible for the engineering design and installation of a complete and functional plumbing system for the lease space.
2. All sanitary, vent, and cold-water piping must connect to existing lines in the immediate tenant area and be furnished and installed by the tenant. For food service areas, all tenant drainage piping must be connected to grease waste lines extending to grease interceptors. Additional requirements are available through the APC. Heat trace will be required on all lines from the source point out to ensure flow.
3. The Tenant is responsible for providing necessary measures to prevent water leakage for plumbing systems in the lease space. All aboveground sanitary waste, drain and vent piping shall be cast iron. PVC piping or copper shall not be used for aboveground for sanitary, drain, waste or vent piping within buildings. All underground sanitary waste, drain, and vent piping shall be CISP. All aboveground cold-water piping shall be copper Type K only. Mechanical press fittings are not allowed. Minimum cold water (CW) connection shall be ¾ inch.
4. All plumbing piping penetrating architectural walls shall be sleeved and sealed completely. The tenant shall provide a hard-wired moisture detection system in mop sinks that shall be tied to a local alarm. A means of notifying the Airport facility shall be provided in case of leaks. A water intrusion barrier shall be required to cover at least 8” up the wall.
5. A special inspection of the plumbing system shall be performed prior to acceptance. Inspection should include testing for leaks and defects in new piping and parts of existing piping that have been altered, extended, or repaired.
6. Plumbing work may require a permit by the AHJ depending on scope. If required, a fee will be collected before the job can start and the work must be inspected upon completion.
7. The Tenant is responsible for maintenance of plumbing systems in the lease space.
8. Labeling for plumbing equipment shall have high durability. Labels for outdoor locations shall be waterproof and ultraviolet (UV) resistant. Permanent markers shall not be used for labeling.
9. Plumbing drawings shall be signed and stamped by a Professional engineer registered in the State of California. Engineers shall include the expiration date of their registration when they sign, seal or stamp all mechanical design documents produced for the City of San Jose.
10. Maintain waterproofing of floors, walls, and roof.

4.4.5 Domestic Water/Vent

1. The water piping serving the Tenant’s equipment and fixtures will be installed by the Tenant using piping material specifications authorized by the Airport.
2. The routing of the water piping shall not occur over the existing CTX equipment.
3. Island vent piping will be required to be installed by the Tenant.
4. Vent piping for fixture rough-ins will route to the vent stub out furnished.
5. A back flow preventer must be provided on main cold water service connection.

4.4.6 Kitchen Grease

1. The Tenant will route greasy waste from the kitchen dishwashers, pot sinks and other fixtures and equipment with waste effluent.
2. The horizontal waste lines shall be sloped at ¼’’ per foot and have a minimum of four (4) inch diameter.
3. The grease interceptor will be a pre-cast concrete design with manholes extended to grade for cleaning. Routine cleaning of the grease interceptor will be performed by the Tenant, at the Tenant’s sole cost.

4.4 Building Systems

4.4.7 Natural Gas

1. All Tenants must obtain their gas through PG&E. The Airport does not provide gas services.
2. The Tenant will route gas piping from the Tenant gas stub out provided in the ceiling of the Concourse Level.
3. The Tenant is responsible for for the installation of gas meters.
4. The gas piping within the ceiling space will be required to be welded, labeled and tested.

4.4.8 Fire Protection

The Tenant is responsible for designing, performing all work in accordance with, and installing all fire protection and life safety features required by the Airport, City of San Jose and applicable codes for this type 1A building. The Tenant must use the Airport's sole source contractor for fire alarm and fire sprinkler system programming controls.

1. The Tenant shall provide the engineering design, modification and installation of the fire sprinkler and alarm system, which shall comply with design standards prepared for the Airport. In general, the fire protection system shall include:
    - » The design, modification, and installation of fire sprinkler system(s).
    - » The design and installation of adequate fire protection systems for all equipment as required (e.g.; kitchen).
    - » The kitchen hood fire protection systems shall be connected to the building fire alarm system, for supervision of the system only.
    - » The Airport terminals are equipped with an audible and visual fire alarm detection system which exceeds the minimum code in agreement by Variance.
    - » The tenant shall provide one-hour, fire rated partitions, with appropriate fire rated opening protection between tenant spaces.
    - » The tenant shall be responsible for maintaining fire rated partitions, walls, roofs and ceilings along tenant lease lines.
2. Permit(s) required for the relocation of the fire alarm speaker and strobes to suite the Tenant fit out is the sole responsibility of the Tenant. The Tenant is also responsible for tie-in to Airport alarm system.
3. The fire sprinkler system throughout the complex, which exceeds the minimum code in agreement by Variance, must be maintained in the Tenant space. The Permit(s) required for the relocation of fire components to suite the Tenant fit out is the sole responsibility of the Tenant.
4. It is the responsibility of the Tenant to isolate the effected sprinkler system zone valve and drain piping system to install new fire sprinkler systems designed to meet the Tenant's requirements as conditioned above.

4.4.9 Telephone Service

1. The Airport has deployed a new voice and data cabling infrastructure, a new Voice Over Internet Protocol (VOIP) telephone system, and a new converged voice/data/video network to accommodate the shared-use business plan. These components were designed with sufficient capacity to support all voice requirements on the Airport campus. The STS telephone program takes advantage of this inherent economy of scale to offer tenant voice services at competitive rates.
2. The Airport will offer tenants a full telephone service on a voluntary basis. This will include access to shared dial tone (purchased in bulk from AT&T), voice mail, telephone instruments, long distance options and on-site support and maintenance.

4.4.10 Structural

1. Identification of all structural elements shall be based on field verification. Relying on as-builts alone is discouraged.
2. Structural drawings shall be signed and stamped by a Professional engineer registered in the State of California. Engineers shall include the expiration date of their registration when they sign, seal or stamp all structural design documents produced for the City of San Jose.
3. All areas that may be affected by core drilling must be scanned prior to drilling using the Ground Penetrating Radar (GPR) method. The Tenant must submit a copy of the GPR results prior to core drilling.
4. No structural modifications may commence on the base building without prior approval from the Airport.
5. Any equipment, millwork, or signage greater than 5'9'' or heavier than 400 pounds fully loaded must be seismically braced per the California Building Code.

4.4 Building Systems

4.4.11 Shutdowns

All electrical and fire shutdowns must be done overnight and coordinated at least two weeks in advance with the Airport Project Coordinator. The Tenant's contractor and sub-contractors should expect to attend at least one (1) meeting with Airport representatives prior to the shutdown.

4.4.11.1 Electrical Shutdowns

1. Electrical shutdowns must be done between the hours of 11:30pm and 4:30 am but may be delayed due to a late flight
2. The Tenant's contractor must submit a Notice of Work as well as the stamped and signed electrical drawings to the Airport Project Coordinator at least two weeks in advance.
3. The Airport's Project Coordinator will provide the Tenant with single line diagrams and panel schedules based off the Tenant's approved drawings.
4. The Tenant must attend at least one (1) meeting with Airport staff prior to shutdown to discuss potential impacts and shutdown procedures.
5. The Tenant's electrical subcontractor is required to create a detail Method of Procedure (MOP) indicating a procedure for the work as well as all elements that the shutdown will effect.
6. The Tenant is expected to verify all field conditions prior to electrical shut-down and is strongly encouraged to not rely on as-builts.
7. Depending on the scope of work, an electrical inspector may be required to attend the shutdown. Please coordinate with the appropriate inspector using an inspection request form at least 48 hours in advance.
8. If the electrical shutdowns effect any Security Card Readers or doors the Tenant may be required to hire Security Guard(s) to monitor unalarmed doors. If required, the Airport Project Coordinator will send the Tenant a list of allowed companies for Security Guards.

4.4.11.2 Fire Sprinkler Shutdowns

1. Any work that involves draining sprinkler lines or putting the fire alarm system in test mode shall be performed between the hours of 11:30pm and 4:30am unless otherwise approved by the Airport Project Coordinator.
2. The Tenant's contractor must submit a Notice of Work as well as the stamped and signed electrical drawings to the Airport Project Coordinator at least two weeks prior to shutdown.
3. The Airport's Project Coordinator will provide the Tenant with fire zone drawings based on the Tenant's approved drawings to identify impacted areas.
4. The Tenant's fire subcontractor must attend at least one (1) on site meeting with Airport staff prior to the shutdown.
5. The Tenant's contactor shall take a photo of the pressure on the gauge prior to draining any sprinkler lines. When filing the lines, the Tenant's contractor shall ensure that the pressure matches the pressure prior to draining.
6. Lines should be both drained and refilled in a slow and controlled manner to avoid the bursting of pipes. Because of this, draining and refilling the system may take up to an hour each dependent on the project's location. Tenant should account for the time it takes to drain and fill the lines when creating their Method of Procedure.
7. The Tenant must hire a Siemens XLS certified Fire Watch to monitor the Fire Alarm Control Panel whenever the fire alarm system is placed in test or the sprinkler lines are drained. Please contact your Airport Tenant Coordinator to get a list of companies that have Airport badged Siemens certified employees.
8. Depending on the area effected, the Tenant may be required to hire additional Fire Watches to walk the spaces that are affected by the shutdown. The additional fire watches do not need to be Siemens Certified, but must be badged and able to walk the area without escort.

4.4.12 Building Management System

1. All Tenants are required to be tied into the Airport Fire Systems. Additionally, Airline Tenants must tie their lighting and HVAC systems into the Airport's Building Management System. The Airport will perform commissioning to show that the new equipment is correctly set up and controllable, the graphics are correct, and any existing systems and equipment wasn't negatively impacted and operational. The Tenant is to contact their Airport Project Coordinator for details on the Building Management System as well as sole sourcing contacts.

4.5 Information Technology

4.5.1 General Information Technology (IT) Requirements

1. All Information Technology work should be coordinated with the Airport and the Airport's cabling vendor. Please contact your Airport Project Coordinator for the Airport's current vendor.
2. No Tenant or contractor equipment can be placed in Airport IDF rooms (due to Airport Security Policies PCI)
3. Each Tenant shall have enterprise campus network through software-based policy and network segmentation from the edge of the network to the application.
4. If the Tenant is planning on connecting to Airport Infrastructure, Airport IT will configure the uplink port between the Airport switch and Tenant equipment with their assigned virtual network identifier (VNI) provided by the Airport.
5. The Airport network switches are a shared use network for common use devices. The network infrastructure cannot accommodate technical requirements for non-common devices in common use areas.

4.5.2 Premises Distribution System

The Premises Distribution System is comprised of the Active and Passive Infrastructure installed and maintained by SJC Airport.

The Airport has a business model to allow the efficient utilization of the Airport's technical infrastructure through implementation of a flexible and scalable IT environment. This environment, referred to as the IT Flexible Provisioning Environment (FPE), allows a partnership between the airlines, other airport tenants, and the airport that permits the dynamic assignment of airport physical resources, and provides a common network infrastructure that increases operational efficiency and reduces operating costs for all parties. There are numerous benefits to providing a common IT infrastructure for all tenants. These benefits are applicable to both the initial implementation and ongoing support costs:

1. Initial Implementation Costs – Provisioning a single, shared infrastructure results in cost savings when compared to the deployment of individual, proprietary networks. If each system or tenant is required to install proprietary conduit, cabling, and network components, the resultant total implementation costs exceed the cost of a shared installation.
2. Support Costs – The initial capital costs of a system represents only a portion of the total cost of owning and operating the system. By supporting only one network, SJC lowers its operational costs and the resultant costs (through rates and charges) for its Tenants.
3. Lower Future Deployment Costs – A flexible and scalable IT infrastructure allows SJC to cost-effectively implement new technologies as they become appropriate.

4.5.3 Airport Passive Infrastructure Policy

The Airport Passive Infrastructure is any data, video and telecommunications cabling infrastructure that includes the physical cabling (copper and fiber), conduits, racks, patch panels that tie the cabling together. This infrastructure is owned and maintained by SJC.

4.5.3.1 Cabling Installation and Ownership

1. All data, video and telecommunications infrastructure installed by SJC is for the sole use of SJC and its Tenants. No sub-letting (with or without compensation) to other parties will be permitted without written authorizations from SJC Properties in consultation with SJC IT.
2. SJC provides all cabling between communications rooms. Horizontal cabling from communications rooms to end devices at wall outlets must be provided by an SJC-approved contractor hired by the Tenant. All installations of new cabling must be approved by and scheduled through SJC IT as described in the PDS Procedures section of this section. All video, data and telecommunications cabling installed on the SJC campus shall be installed in accordance with these SJC PDS Policies and Procedures and conform to industry standards applicable at the time.
3. All SJC Passive Infrastructure installed at SJC will terminate in one of the SJC supplied and provisioned SJC IDF Communications Rooms.
4. All access to SJC IDF Communications Rooms will be controlled by SJC IT. Tenant representatives that have been approved to provide horizontal cabling that will require access to a SJC IDF Communication Room will require escort by a SJC IT representative. Escorting procedures are outlined in the SJC Data Center – Communications Room Access Policy.
5. Escorting by an SJC IT employee may be subject to an hourly charge as defined in the Airport Rate Resolution.

Any and all exceptions to these policies and procedures shall be requested in writing by the Tenant and will be approved by the SJC Airport Director and responded to in writing. No exception will be granted without SJC written authorization.

4.5 Information Technology

4.5.3.2 Terminations

1. All Plenum Unshielded Twisted Pair (UTP) and horizontal cabling installed in SJC communications rooms will terminate in SJC provided RJ-45 patch panels. Terminations will be consistent with ANSI/TIA/EIA Category 6 cable standards. Specialty cabling required for specific applications will be terminated according to manufacturers' standards.
2. Each UTP cable installed will support a single device. All horizontal runs shall be point-to-point from the communications room to the outlet location with all four pairs of each cable terminated in a single jack. Splitting of cable pairs from a horizontal run will not be allowed. SC connectors will be used for all fiber terminations on the campus.
3. A maximum of 12 drops can be requested by the Tenant. Any more drops than this and the Tenant will be required to provide their own network equipment in their lease space.

4.5.3.3 Labeling

All cables installed in SJC facilities will be labeled according to industry cable management standards. Labeling requirements for Tenant or third party installations will be provided by an SJC IT representative prior to installation. Tenants must complete the required labeling prior to SJC acceptance of the installation.

4.5.3.4 Cable Assignments

An SJC IT representative shall provide cable assignments for all Tenant applications and systems in accordance with the established procedures in the SJC Procedures Section of this document. Any Tenant use of cables that have not been specifically assigned may be subject to disconnection without notice.

4.5.3.5 Cross-connections

All cross connections required to provision specific circuits shall be performed by SJC IT personnel. In no instance shall anyTenant or Tenant representative perform any cross-connection involving SJC cabling.

4.5.3.6 Cabling Standards

The following provides a summary of the standards that have been adopted by SJC in developing the passive portion of the PDS.

1. All cable (fiber and copper) is required to run through cable tray or conduit. SJC IT will validate that there is sufficient space for the cable runs. Any additional conduit or cable tray that will be required to be installed will be coordinated with SJC Properties and SJC IT through the SJC FORM A/B process described in the procedures section of this document.
2. Horizontal UTP – SJC has standardized on the use of Category 6 blue cabling for all horizontal applications at SJC as part of an overall structured cabling solution. The structured cabling solution installed at SJC shall conform to existing solution agreements. This solution will provide complete end-to-end horizontal channels that are certified to meet the ANSI/TIA/EIA Category 6 standard. The channel includes all cabling and termination equipment within the SJC communications rooms.
3. Riser Copper – The riser copper cabling installed at SJC shall also be part of the agreed upon solution. This copper Unshielded Twisted Pair (UTP) cabling shall consist of Category 3 cabling that is capable of supporting voice applications, as well as legacy data protocols such as RS-232, RS-485, etc. All riser terminations in the SJC communications rooms shall utilize industry standard 110 blocks.
4. Additional cabling standards:
    - » ANSI/TIA/EIA-598-C–2005
    - » ANSI/TIA-606-B-2012
    - » ANSI/TIA-607-B-2011
    - » ANSI/TIA-758-B–2012
    - » ANSI/TIA-942-A-2012

4.5.3.7 Riser Fiber

The riser fiber installed at SJC shall consist of a flexible system that fully supports a dynamic environment. The system provides single mode fiber. The SJC fiber standard is Single Mode Fiber.

4.5.3.8 Maintenance of the SJC Passive Infrastructure

All maintenance and troubleshooting of the SJC Passive Infrastructure shall be performed by an SJC IT employee, or SJC designated representative. In no instance shall any Tenant or Tenant representative perform any modifications to SJC cabling.

4.5 Information Technology

4.5.3.9 Video Service Requirements

Tenants requiring satellite installation for video entertainment services shall submit installation requirements and plans including roof penetration and mounting details, to SJC utilizing the SJC Form A/B process described in the procedures section of this document, prior to the commencement of installation. SJC retains the right to coordinate all Tenant video installations with potential providers and Tenants in an effort to streamline the Passive Infrastructure requirements.

4.5.4 Tenant Passive Infrastructure Policy

The Tenant Passive Infrastructure is any data, video and telecommunications cabling infrastructure that includes the physical cabling (copper, fiber and coaxial), conduits, racks, patch panels that tie the cabling together. This infrastructure is allowed only in the Tenant Intra-Leased space, or in the space between the Tenant Intra-Leased space and the nearest SJC Communications Room. Cabling within the Tenant Intra-Leased space is maintained by the Tenant and the cabling between the Tenant Intra-Leased space and the SJC Communications room is maintained by SJC IT. Should the Tenant contract expire, SJC will determine whether the Tenant must remove and dispose of all associated components.

4.5.4.1 Cabling Installation and Ownership

1. All data, video and telecommunications infrastructure installed by Tenant is for the sole use of that Tenant.
2. Tenant passive infrastructure is allowed only in the Tenant Intra-Leased space, or in the space between the Tenant Intra-Leased space and the nearest SJC IDF Communications Room. Cabling within the Tenant Intra-Leased space is maintained by the Tenant and the cabling between the Tenant Intra-Leased space and the SJC IDF Communications room is maintained by SJC IT.

All Tenant Passive Infrastructure installed at SJC will terminate within the Tenant's Intra-Leased Space, or at the SJC TV Minimum Point of Entry for television services. This applies to intermediate connection needs for signal bifurcation and/or re-amplification.

4.5.5 Airport Active Infrastructure Policy

The SJC Active Infrastructure includes all of the electronics that are part of the network. This includes all switches, routers, bridges, etc. that allow for the transfer of data across the network. This active infrastructure is owned and maintained by SJC.

4.5.5.1 Active Equipment Installation and Ownership

1. All SJC active network equipment is the sole property of SJC. All SJC active network equipment shall be installed by SJC or approved network support vendor. All SJC network equipment installed on the SJC campus shall be installed in accordance with SJC IT procedures (listed in 4.7.1) and conform to SJC standards for Active Infrastructure.
2. All active network equipment that is part of the PDS and installed by SJC is for the sole use of SJC and its Tenants.
3. Any and all exceptions to these policies and procedures will be granted in writing by the Director of Aviation. No exception will be granted without SJC written authorization.

4.5.5.2 Active Equipment Configuration, Maintenance and Troubleshooting

1. All configuration, maintenance and troubleshooting of the active network equipment of the PDS shall be performed by SJC or their support vendor. In no instance shall any Tenant, or Tenant representative perform any modifications to SJC equipment.
2. The unique business model of the Airport requires that the enterprise campus network support multiple Tenant maintaining isolation among the networks (i.e. airline tenants, concessionaires, City, etc.) in addition to independence from the physical devices and forwarding of traffic. All virtual network assignments shall be made by SJC IT. Tenants who require access to their assigned virtual network shall provide their own logical addressing and necessary routing between their assigned virtual network. SJC IT will assign IP addressing in situations where Tenant requires data connectivity to SJC systems.
3. Configuration, maintenance and troubleshooting of all Tenant end devices and peripherals are the sole responsibility of the Tenant. SJC assumes no responsibility for the operation of these devices.
4. SJC does not provide Internet access or private WAN data circuits for Tenants. Tenants should be prepared to work with external communication services providers to acquire and maintain these services.

4.5 Information Technology

4.5.5.3 SJC Network Infrastructure and Technology

1. The following provides a summary describing the SJC network infrastructure and technology that have been adopted by SJC in developing the active portion of the PDS.
    - » SJC provides a high availability 99.999% uptime network.
    - » SJC network is monitored 24x7.
    - » SJC Network is fully documented and includes all equipment inventory, configuration and physical, logical network topology diagrams. All provisions of the network are subject to the Operation Security Polices for Information System and Technology
    - » The use of remote access through the SJC VPN is only authorized for specific business needs.
    - » No dial-in access is allowed to devices connected to the SJC network. VPN access will be provisioned as required for remote monitoring and support.
    - » The SJC network is a PCI-DSS compliant as a service provider. SJC completes an on-site audit on an annual basis to maintain its PCI compliance. The most recent PCI compliance document is located on the SJC website.

4.5.5.4 WAN Links

All WAN links to the Tenant specific virtual network shall be provided and configured by the Tenant and shall utilize the passive portion of the PDS as described in this document. The connection to the active portion of the PDS shall be via a standard Ethernet connection and shall be coordinated with the SJC IT representative.

4.5.6 Wireless Policy

Tenants may install private unlicensed wireless systems within their own exclusively leased space only.

1. Responsibility – Tenant takes full responsibility of devices; Airport is not responsible for any wireless devices belonging to Tenant.
2. Security – Airport is not responsible for any detriments to the Tenant's system that occurs as a result of lack of security.
3. Tenant is responsible for monitoring the RF spectrum to prevent any sort of passive attacks on their wireless system.

4.5.7 Rates and Charges

Consistent with the City's rate and charges resolution for the Airport, SJC may charge Tenants for the use of the PDS infrastructure and the services described herein.

4.5.8 Premises Distribution System Procedures

All procedures related to the Premises Distribution System (comprised of the Active and Passive Infrastructure installed and maintained by SJC Airport) must follow the following procedures.

4.5.8.1 New Projects – Tenant Improvement (TI) or Construction

Infrastructure projects that are a part of construction, renovation or TI projects typically follow the standard SJC Tenant Improvement procedures outlined in the Tenant Improvement Guidelines Document. SJC IT is engaged as part of the Airport team for the Tenant's requests. This Tenant Improvement Guidelines document is available from the Tenant's SJC Property Manager and on the SJC.org website.

4.5.8.2 New Infrastructure or Telephone Requests

Projects that are not part of a construction, renovation or TI project addressed in the section above regarding New Projects, will follow the Tenant Improvement Design Criteria (this document). This process requires the completion of SD Form A and processing through the SJC Property Manager. They will route the Tenant's request to the correct SJC IT representative for review. The SJC Property Manager will contact the Tenant and advise how to proceed.

4.5 Information Technology

4.5.8.3 Standard Process

1. Tenant will be instructed to provide necessary submittal documents depending on the requirement. Typically this includes a request to submit (4) complete sets of documents to SJC IT for review at least thirty (30) days prior to the anticipated project start date.
2. SJC IT Response - SJC IT will send written review comments and a PDS utilization plan to the Tenant. This letter will advise Tenant to either forward original drawings or reproducible documents for signature, or revise and resubmit the documents. The Response will also contain an SJC plan for PDS usage showing all termination locations, cross-connect points, co-location assignments and related charges. Approximate time required: 15 days from receipt of submittal.
3. SJC Authorization - When all review comments have been resolved, SJC will sign the Tenant's construction documents and issue an authorization letter.

Record Drawings - Within 30 days of completion of construction, Tenant must provide to SJC IT record drawings which accurately represent all as-built conditions.

4.5.8.4 Cable Requests/Assignments

1. Standard Voice
   - » Demarcation – All Public Switched Telephone Network (PSTN) provisioning will terminate in the specified demarcation areas of the campus. Public providers (LEC and CLEC) will be assigned equipment installation and demarcation areas within the main communications room in the individual building(s).
   - » Standard voice circuits will be extended over the SJC PDS to Tenant leased spaces by SJC personnel. Routing and pair assignments will be performed solely by SJC IT.
   - » Requests for demarcation extension must be made to SJC IT through the SD Form A at least ten (10) working days prior to termination of the circuit and should include at least:
     - ◊ PSTN provider and anticipated date of circuit provisioning
     - ◊ Tenant name and contact information
     - ◊ Circuit identification number
     - ◊ Specific Tenant location for extension
     - ◊ Any restrictions on SJC IT access to Tenant space and/or escort requirements.
   - » SJC will provide a service agreement and quote for related PDS circuit provisioning charges within two (2) working days of receipt of request. A service agreement signed by an authorized Tenant representative is required prior to demarcation extension.
2. Ethernet Requests / Assignments
   - » All Ethernet transport will be provided via the SJC supplied and managed network. To facilitate requests for services the following procedures shall be adhered to:
   - » Request for Services – Tenant shall submit an initial request for Ethernet services shall be submitted using the Tenant Improvement process described above. The information to be provided shall include the following as a minimum:
     - ◊ Number of Ethernet drops required.
     - ◊ Location of Ethernet drops.
     - ◊ Minimum bandwidth required.
     - ◊ Policy Access requirements.
     - ◊ Tenant contact information.
   - » SJC IT Response – SJC IT will review the initial request for services and provide a written response. The written response will include a network utilization plan, estimated duration for configuration/implementation, and costs for services.
   - » Pre-implementation conference. Prior to implementing the Ethernet provisioning, a conference will be held with Tenant and SJC IT representatives. The purpose of this conference will be to discuss the implementation plan, configuration requirements, scheduling, and other issues that will affect the implementation.
   - » Configuration records. After implementation, SJC IT will provide the Tenant with configuration records detailing the implementation and specific configurations.
   - » Other – Other connectivity requirements will be negotiated and coordinated with individual Tenants as required. Provisioning and maintenance of the PDS remains under the sole purview of SJC.
3. WAN Links
   - » Demarcation – Wide Area Network (WAN) links may either terminate in an SJC Communications Room or in the Tenant leased space. Extensions of WAN links into Tenant spaces shall be over the SJC structured cabling system. Requests for extension of a WAN link to the Tenant leased space should follow the Moves, Adds, and Change procedures described below.
   - » SJC will provide a service agreement and quote for related PDS circuit provisioning charges within two (2) working days of receipt of Tenant's request. A service agreement signed by an authorized Tenant representative is required prior to demarcation extension.

4.5 Information Technology

4.5.8.5 Moves Adds and Changes

Requests for Moves Adds and/or Changes (MAC) to existing circuit provisioning should be made to their assigned SJC Property Manager. No Tenant employee or representative may perform changes or additions to the PDS including altering the termination of a wall jack. Charges for MAC's will be according to agreements entered into between the City and Tenant.

4.5.8.6 Contact Information and Hours

For any service requests, Tenants should call the Airport Help Desk at 408 392-1170. Tenant's service call will be routed to the correct technician and will be serviced based on agreements entered into between the City and Tenant. Support technicians will be available on-site between 8am and 5pm Monday through Friday. For after hour emergencies, Tenants should call the Airport Communications Center at 408-277-5100 and a SJC IT representative will be notified. The Airport strongly encourages all Tenants to contact SJC IT with all questions prior to placing any orders. See *Exhibit E*, the Communication and Data Circuit Notice Form, to assist in the process.

4.5.8.7 Site Escort Services

SJC IT will arrange for escort services as necessary when Tenant representatives need access to SJC IDF Communications Rooms. Requests for escort to perform routine maintenance or cable installations should be submitted at least two (2) working days in advance. Site escort services for emergency repairs will be provided according to the service level agreement entered into with each Tenant.

4.5.8.8 Service Agreements

If any of the services described in this document are requested or required by Tenant, the City and Tenant will enter into an agreement setting forth the specific services provisioned, the levels of support, and the associated costs.

4.6 Food and Beverage Specific Requirements

4.6.1 General Requirements

1. Any clutter or unsightly equipment such as boxes, shelves, sinks, etc. shall be fully concealed from public view.
2. Particular attention shall be given to the visual organization of the rear and side walls of the preparation and serving area.
3. Equipment catalog cut sheets and layout shall be submitted for approval.

4.6.2 Bars

1. Floors must be a durable and cleanable material. If using tile, it must be sealed before bar equipment is installed.
2. Vinyl tubing is permitted to run under the floor for syrup and/or liquor lines only with the Airport's prior approval. Any syrup leaks shall be the sole responsibility of the Tenant.
3. All walls must be washable in the bar area.

4.6.3 Food Preparation Areas

1. Food preparation areas must meet all applicable health department requirements.
2. Doors must have a minimum dimension of thirty-six (36) inches by eighty-four (84) inches. Kitchen access doors shall have vision panels.
3. If the food preparation area is an integral part of the visible service area, it must meet all storefront criteria for finishes and lighting. If the food tenant preparation area is not intended to be part of the visible service area, a separation wall is required, and all doors must have automatic closers. Any food pass-through openings are to be minimal in size and are subject to Airport approval.
4. Walls – Food preparation and dishwashing areas:
    - » Walls must be ceramic tile or other durable and cleanable material to a minimum height of eighty-four (84) inches.
    - » All exposed columns and vulnerable corners in the kitchen area must be protected to the height of fifty-four (54) inches with stainless steel covers.
    - » Mounting blocking is required to support kitchen equipment and shelving. Do not support equipment off Tenant demising walls without consent of the Airport.
    - » Walls can be modified to accommodate recessed control panel for food services equipment (i.e. vent hoods) only with the Airport's approval.
    - » All wall and ceiling construction around kitchen exhaust canopies and cooking equipment must be of metal and stud construction with 0.5 inch cement board on the equipment side or be of cement block construction.
5. Floors – Floors in kitchens, food preparation and storage areas, counter and beverage service areas must be installed over a membrane waterproofing system that will result in a fully waterproofed surface, including an 8" high cove base backed with the membrane waterproofing. The Tenant is responsible for any damages caused by leakage from their space. See *Section 4.3.2 Waterproofing Requirements.*
6. Ceilings – The minimum ceiling height for the entire kitchen area is to be one hundred eight (108) inches. In preparation and serving areas, all ceilings to be durable and cleanable in compliance with building code and health code requirements.
7. Doors and Hardware – In Food and Beverage Areas:
    - » Wood doors – Solid core, plastic laminated finish
    - » Metal doors – Painted (not allowed within design control area)
    - » Metal frames – Painted
    - » Latching assembly – 32D finish, Stanley CB 1960 complete with 03 lever or equal
    - » Hinges – Three (3) per door, Schlage, ball bearing 32D finish
    - » Locks – Schlage, 32D finish or equal. Locks shall be as approved by the Airport, and a file copy of keys to access the unit and any related storage areas shall be provided to the Airport.
    - » Door stop – 32D finish, floor mounted preferred
    - » Door closure – Must be LCN series 4000 or 4100 or equal
    - » Door frames – Galvanized steel paint color to Airport approval
8. Cutlery – All cutlery storage and use must meet TSA and Airport security requirements storage and use requirements.

4.6.4 Food Service Equipment

1. Tenant equipment on counters is to be set back a minimum of 6" from the front counter edge and recessed into the countertop so that no portion exceeds 4'-6" high above finish floor. Self-serve soda machines may exceed this height upon review and approval of the Airport. Beverage machines and other miscellaneous equipment on the counter are subject to design review. No used equipment, nor trademark or supplier logos will be permitted on equipment within public view unless it is part of an Airport-sponsored program.
2. When necessary, screening of equipment cords and unfinished equipment backs will be required if visible from the public side. All paper goods and supplies are to be stored in areas not visible to the public.

4.6 Food and Beverage Specific Requirements

4.6.5 Service Counter Zone

1. All counters must meet criteria contained in Title 24, Chapter 11B California Building Code Accessibility Requirements and the Americans with Disabilities Act.
2. Counters must be set back a minimum of 3’-6” from the lease line to provide adequate circulation and queue space. The design should require customer queuing to be parallel to the storefront and not perpendicular into the concourse.
3. All counters and back walls visible to the public shall be restricted to durable, non-porous, easily cleanable materials. Counter front and countertop materials are limited to stone, metal, solid surface materials, glass, and ceramic tile. Simulated natural products and metal and plastic laminates are not acceptable materials for counter tops and counter fronts.
4. Counter recesses, angles, and other devices can be used to break up the length of the flat front.
5. All counter fronts are to have a 6” high recessed toe space by 4” deep. The face of this base should be covered in the same material as the adjacent floor or other durable material.
6. Trash receptacles for customer use must be concealed and built into the countertop millwork.
7. Napkins, condiments, utensils, straws, and trays must be set back a minimum of 6” from the front of the counter and must be dispensed from permanent holders recessed into the front countertop.
8. Rear stock storage rooms are not to be visible to the public.
9. Fluorescent lights used in the serving area must be equipped with parawedge louvers.
10. Roll up security grilles, if utilized, must be fully concealed during business hours.
11. A personnel access door in a counter front is permissible where no rear entry is available. It must be concealed by matching the adjacent counter front and countertop materials. Hinges and hardware must be concealed.

4.6.6 Displays

The following are specific requirements for the display of food and beverages.

1. Front counter - The use of built-in glass display cases is allowed. They should be a maximum of 5’-0” high above finish floor for in-line concessions and 4’-0” high for kiosks locations. These display cases must be constructed of a clear glass front, with stainless steel, brass, or other bright metal, and must sit on a standard 6-inch base. The width of display cases cannot exceed 25% of the counter frontage. Pre-fabricated display cases on countertops are not allowed.
2. All display cases must be lighted and vented. Light sources must not be visible. The sides and back of the case may be mirrored.
3. No displays or signs are permitted in the public concourse beyond the DCA unless approved by the Airport.
4. Back counter - storage units or pre-fabricated display cases may be installed at the tenant’s option at the back of the serving area. Any such unit shall adhere to the counter or display case specifications mentioned for materials above, except that storage counter doors must be polished stainless steel.
5. Sneeze guards must be set back a minimum of 6” from the counter edge and be a maximum height of 4’-6” above the finished floor. All horizontal joints are to be butt glazed for maximum visibility. Glazing must be of tempered glass or safety glass. No acrylic glazing is permitted.

4.6.7 Storage

1. The tenant’s supplies must be stored on appropriate racks or in cabinets within the tenant’s lease space. Such storage must be concealed from public view with doors or sliding panels.
2. Tenant to provide for interim used cooking oil storage within lease space.
3. Storage racks over 5’9’’ or greater than 400 pounds fully loaded must be seismically braced per the California Building Code.

4.6.8 Food and Beverage Mechanical Requirements

1. For in-line concession lease spaces that have a kitchen hood, the tenant shall provide a kitchen cooking exhaust air fan and hood. Hood is to be a “compensating” hood with outside tempered makeup air. A qualified contractor must install it and the submitted design must include sizing and roof penetrations by tenant. It may be necessary to use the Airport’s roofing contractor.
2. Roof exhaust fans must be of the belt drive, upblast, vertical discharge type, and must bear the AMCA certified ratings seals for air and sound performance. There must be a built-in grease drain. Grease protection to be provided which meets roof warranty requirements. It shall be the tenant contractor’s responsibility to install exhaust air ductwork from the tenant’s hood to the tenant’s exhaust fan on the roof.

4.6.9 Café and Alcohol Railings

1. Café and alcohol railings are required to have a magnetic base. The magnetic base plate is to be adhered to terrazzo flooring using epoxy or VHB tape as determined by Airport.
2. In the event the railing is to be removed, the Tenant is required to remove adhesive for the magnetic base plate, buff, and refinish terrazzo flooring.
3. The Tenant is required to review seismic requirements of the café and alcohol railings with the AHJ.

4.7 Retail-Specific Requirements

4.7.1 Retail Interiors

1. For retail units, the Design Control Area has been established from the lease line to five feet from the storefront.
2. Store layouts must be organized such that all queuing will be contained entirely within the leased area. Queuing into public circulation corridor is to be avoided. Queuing into store entranceways and interior circulation aisles should be minimized. All queuing must comply with local fire safety ordinances.
3. All display racks and stands shall be entirely contained within the leased area and shall not be located within entranceways. Display racks and stands shall not encroach into public circulation corridors unless approved by the Airport.
4. Aisles within stores must be designed and spaced for easy and safe movement and be compliant with current Accessibility codes. In general, interior layouts shall be designed for safety and convenience, shall utilize floor and wall surfaces that ensure safe and easy movement, and shall incorporate counter areas of suitable height and adequate knee space for people in wheelchairs.
5. All retail outlets shall have adequate storage areas. In order to ensure that storage is space efficient and orderly, all storage areas/rooms must be adequately fitted with shelving, racks, etc. Storage should be integrated into displays and use matching materials.
6. All equipment to be used within the retail operation shall be indicated on initial submissions. The installation of additional equipment, such as coolers, display racks, etc., shall require Airport approval.
7. Retail outlets may be required to incorporate the ATB Public Announcements System into their design and layouts.
8. Any display racks, stands, shelves, storage racks, etc. that are taller than 5’9’’ or greater than 400 pounds must be seismically braced per California Building Code requirements.

4.7.2 Storefronts

1. Storefronts must be supported directly from the building structural system where the necessary load-bearing capacity is available. The base building bulkhead and ceiling may not be used for such support. Base building conditions should be verified in field by Tenant.
2. Storefronts shall not interfere with existing electrical and mechanical services. In the event that alterations must take place, the Tenant must receive prior approval. In addition, all costs involved in altering electrical and or mechanical systems shall be the responsibility of the Tenant.
3. In the Design Control Area, fixed showcase units or portable showcase units (fixed in position) are allowed. Showcase units must be fully finished on all sides in approved materials.

5. Procedures & Submittals

5.1 Goals

The goals of this section are to:

- Assist Tenants in the safe, smooth and timely execution of their projects.
- Ensure compatibility with existing facilities and systems, other planned development as identified in the Airport Master Plan, compliance with Airport development guidelines, and maintain the quality of the facility and integrity of its systems.
- Ensure the project is efficiently coordinated and communication is maintained at all project phases, including minimizing impacts on other Airport Tenants and Airport operations.
- Ensure compliance with Airport operations requirements and regulations, including badging and security.
- Ensure compliance with all applicable building codes and state and local laws, regulations and ordinances.
- Ensure compliance with Airport construction guidelines, with City and State requirements for contractor licensing and bonding, and with permit requirements of all other governmental agencies having jurisdiction.
- Ensure Tenants and their contractors are aware of their responsibilities regarding potential exposure of occupants and workers to hazardous materials, substances, or pollutants.
- Enable the Airport to maintain an accurate database and map of its facilities and properties.
- Assist Airport Tenants with complying with their contractual requirement to obtain the written consent of Norman Y. Mineta San Jose International Airport (“Airport”) to make any alterations or additions to Airport property.

5.2 Tenant Design and Building Conditions

This Design Criteria document is general in nature and does not address every type of condition or detail individual Tenants may encounter in their particular areas. Tenants are required to discuss and plan an on-going review process during the early design stages with the Airport to determine additional approved design criteria specific to their space.

It is imperative that the Tenant develops a full understanding of what the base building provides in each Terminal, including Airport finishes, before any design work is started. The Airport will provide basic functional systems (i.e. mechanical, plumbing, electrical, fire protection, etc.) to which the Tenant will connect. Should the Tenant elect to connect to the Airport systems at a location other than the closest one provided, the Tenant must first request Airport approval, and if approved shall bear the cost to extend the desired services to that location.

Unless otherwise directed by the Airport, all Tenant equipment and system connections to Airport building mechanical, plumbing, electrical, and fire protection systems shall conform to Airport standards. Additionally, all information systems shall conform to the Airport information technology standards and standards for Tenants connecting to the Airport infrastructure.

Unless noted otherwise, the Tenant shall provide all finishes including, but not limited to, walls, floors, signage, ceiling, counter, shelving, cabinets and display cases. In addition, the Tenant shall be responsible for all connections required for their concessions. Each concession is required to tie into all building systems such as fire alarm and building management systems. The Tenant shall provide all ductwork, ductwork extensions, related controls for air distribution within the lease area, lighting, power, fixtures, wiring, accessories, panels, and metering required bringing power from the main electrical panel to the lease area. In addition, if required for operation and approved in writing by the Airport, all water piping and drainage facilities shall be the responsibility of the Tenant. The Airport will provide the Tenant with contact information for each of the Airport’s designated vendors in regards to fire protection, building management systems, lighting, etc.

Food preparation concessionaires shall provide all cooking equipment and fixtures and perform all necessary building modifications necessary to meet building, accessibility, and health code requirements.

5.3 Preliminary Submission Information

5.3.1 As-Builts

It is the responsibility of the Tenant to obtain at least one copy of the "Norman Y. Mineta San Jose International Airport Tenant Improvement Design Criteria" (this document) and to obtain one full set of as-builts describing the area of the Airport in which the Tenant's lease space is located for use by their architect. These documents, together with the Airport's Lease Requirements, will assist the architect in becoming familiar with the design criteria and engineering systems to which their design shall interface in order to produce a satisfactory preliminary submission. Construction Record documents for all Airport terminal areas may be obtained electronically by contacting the Project Manager in the Airport Planning and Development Division.

The Airport does not guarantee the accuracy of the information contained in drawings provided. Drawings and specifications may not reflect as-built conditions and it shall be the responsibility of the Tenant and the Tenant's Consultants to verify current documents to determine actual conditions that will be encountered during the construction of their facilities. The Tenant must confirm the actual size conditions and verify all job dimensions against the lease outline drawings before proceeding to final contract documents.

The Tenant is advised that specific locations identified on the Airport's as-builts contain fixed base building electrical and mechanical services passing through leased premises. The Tenant must accommodate these components with the design and ensure that appropriate access, as indicated in reference drawings, is provided.

Questions and requests for clarification regarding the Airport drawings and specifications should be directed to the assigned Airport Project Manager.

5.3.2 Site Visits

The Tenant is required to visit their project location prior to conceptual submittal to verify as-built conditions and gauge the feasibility of the project. Site visit must be scheduled with the Tenant's assigned Airport Property Manager at least one week in advance. For access to electrical, mechanical, and IDF rooms the Airport Property Manager must arrange with the assigned division per Airport Policy. The Tenant's contractor and engineer shall not contact Airport Facilities, Airport IT, or the MOD (Manager on Duty) directly.

5.4 Tenant Improvement Submission Process

5.4.1 Overview of the Process

The Tenant is required to submit a preliminary conceptual design package to their designated Property Manager that shall include a project description along with renderings and a material board (when applicable) for approval by Airport Senior Staff. Once the Tenant has received Senior Staff approval in writing from the assigned Project Coordinator, the Tenant shall submit a schematic design (SD Form A) submittal for review and comment by the Airport's design review staff. The Airport shall provide the Tenant with comments regarding their SD Form A submittal with a Form A Review Letter, and the Tenant shall subsequently make all the necessary revisions and submit the Construction Document (CD Form B) submittal. At this point, if the Tenant has adequately addressed each of the Airport's comments, the Airport will issue a Form B Review Letter granting approval to the Tenant to proceed with the permitting process. However, if any of the comments have not been addressed in their entirety, the Tenant will need to submit a revised Form B package to address any outstanding items prior to proceeding with the permitting process. The Tenant shall engage the services of a California licensed architect, food service consultant, mechanical, electrical, and structural engineers as needed for the particular project to prepare their respective design and construction drawings.

The Airport shall review and approve all aspects of Tenant improvements, including preliminary and final storefront and sign design, exterior materials specifications, interior layout and fit-out specifications, and the promotional displays and signage, before construction or implementation may occur. Tenants, their designers, and contractors must acquaint themselves thoroughly with the contents of this document so that their design and construction can proceed smoothly in a coordinated fashion.

After receiving approval from the Airport, the Tenant shall proceed to the permitting process with the Authority Having Jurisdiction (AHJ). All projects must be submitted to the AHJ prior to construction. If permits are not required, the AHJ with notify the Tenant Project Contact. If permits are required, the Tenant must pay all fees and submit a copy of their Permit and Final Approved Drawings to the Airport Project Coordinator prior to construction.

All questions, comments, and submissions relative to Tenant Improvement submissions should be addressed to the Tenant's assigned Property Manager at San Jose International Airport. After the designs have been approved and permitted, all questions regarding construction should be addressed to the Tenant's assigned Project Coordinator in the Planning and Development Division at San Jose International Airport.

5.4 Tenant Improvement Submission Process

5.4.1 Overview of the Process (continued)

The summary of the submission process is the following:

1. Conceptual Design Submittal and Airport Senior Staff Review
2. Schematic Design Form A Submittal and Airport Review
3. Construction Documents Form B Submittal and Airport Review
4. Permitting by the Authority Having Jurisdiction (AHJ)

5.4.2 Conceptual Submittal

The first step in the approval process is to submit a preliminary conceptual design package to the Tenant's assigned Airport Property Manager that shall include a project description along with renderings and a material board (when applicable) for approval by Airport Senior Staff. The Tenant is required to obtain as-builts of the proposed project area as well as schedule site-walks of the proposed project area prior to conceptual design. The as-builts and site-walks will advise the Tenant of current conditions and give the Tenant a gauge of the feasibility of the project. More information on as-builts and site walks can be found in *Section 5.3 Preliminary Submission Requirements*.

5.4.3 Schematic Design (Form A) Submittal

Upon Airport Senior Staff approval, the Tenant may proceed with submitting a Schematic Design (Form A). The purpose of the schematic design submission is to provide the Airport's Tenant design review team with an opportunity to comment on the design at an early stage so that the team's requirements can be incorporated into the Tenant's final construction documents. A completed Schematic Design Form A Application should be included with the submission. The application can be found at https://www.flysanjose.com/standards-and-guidelines. Note all of the checkboxes on the SD Form A; they should be a guide to assist in the planning of the project.

5.4.3.1 Schematic Design (Form A) Submittal Requirements

The schematic design Form A submittal will consist of a single PDF with the following information:

1. Site plan showing the location of the lease space within each Terminal, including a construction access plan.
2. Preliminary floor plan, reflected ceiling plan, and demolition plan (minimum ¼" = 1'-0") indicating interior design concept.
3. Typical interior elevations of all areas visible to the public (minimum ¼" = 1'-0").
4. Storefront elevation, including any graphics and signage, and indicating all materials and finishes (minimum ¼" = 1'-0"). Color rendering of Tenant storefront, including any proposed signage.
5. Preliminary sign details, generic menu boards and graphics, (minimum 1½" = 1'-0").
6. A preliminary schedule of finishes.
7. Egress Plans consistent with the most recent version of the California Building Code.
8. Preliminary schematic drawings of mechanical/electrical/ plumbing (MEP) connections and locations.
9. Preliminary project schedules.
10. All ADA clearances, turnarounds, and counter heights as required by the latest version of the California Building Code.
11. Equipment cut-sheets and specifications.

5.4 Tenant Improvement Submission Process

5.4.3.2 Common Errors of Schematic Design (Form A) Submittals

1. Failure to provide a complete description of the work, why it is being done, and a description of the current use versus planned use.
2. Failure to provide a plan of the project area with a description of the features on the plan, the location of the project in relation to the building site, the names of adjacent Tenants or Airport operational areas that may be impacted by the project, and a north arrow.
3. Failure to identify or explain telecommunication needs.
4. Failure to include a schedule that identifies the expected design review period and the construction period and to recognize a realistic time frame for Airport and other agency review.
5. Failure to take appropriate action in response to comments on the Conceptual Design provided by Airport Senior staff.
6. Failure to include equipment specifications and cut-sheets.
7. Incomplete Form A Application sheet.
8. Failure to consolidate all files and attachments into a single PDF.

5.4.3.3 Schematic Design (Form A) Airport Review

The Schematic Design Form A submission should be submitted to the Tenant's assigned Airport Property Manager. Upon arrival of submittal, the Property Manager will review the submission for completeness and accuracy based on Senior Staff comments on the Conceptual Design. If the submittal is incomplete or has not properly incorporated the changes required from the conceptual design review, the Property Manager may reject the submittal and require a resubmittal.

If the submittal contains all of its required elements, the form will be sent to the Airport Tenant Improvement Reviewers for review. The Airport will use its best efforts to finalize its review within ten (10) working days from the receipt of submittal and will advise the Tenant in writing on issues of noncompliance, discrepancies, and required changes. The Airport will notify the Tenant of its comments in the form of a Form A Review Letter. The Form A Review letter will contain comments from each of the Airport's divisions. In addition, the letter will provide the following information:

- Contacts from the Airport and AHJ for the project.
- Permitting Instructions and requirements.
- General Information such as hours of work, security information, terrazzo care, and more as applicable to the project.

Unless otherwise advised, the Tenant is to then submit a Construction Document Form B responding to each of the Airport's comments on the Form A Review Letter. Details on the Construction Document Form B can be found in *Section 5.4.4*.

If the project scope changes, the Tenant should discuss these changes with their Airport Property Manager. The Airport Property Manager will decide if the change in scope is of such a nature that the Schematic Design Form A must be resubmitted and re-reviewed.

5.4 Tenant Improvement Submission Process

5.4.4 Construction Document (Form B) Submittal

Upon receipt by the Tenant of the Airport's Form A Review Letter, the Tenant shall prepare and submit a Construction Document Form B with complete drawings and specifications, amended as requested. The Construction Document (Form B) shall be a PDF file containing a Construction Document Review Application Form, responses to each comment on the Airport's Form A Review Letter, construction drawings, and any additional information requested from the Form A review letter. The drawing specifications shall be prepared by qualified designers and/or engineers licensed in the State of California, utilizing standard engineering practices and conforming to the Design Criteria and the provisions of the architectural, environmental, and engineering requirements in the following sections.

5.4.4.1 Architectural and Engineering Drawings and Specification Requirements

1. Drawings are to be of a standard sheet size 24" x 36".
2. A key plan showing the location of the lease space including structural grid indicators within each Terminal, and include a construction access plan showing requested laydown area indicating the duration of the project.
3. Floor plan (minimum ¼" = 1'-0") indicating the following:
    - » Storefront construction materials, colors, and finishes.
    - » Security grille location (if required).
    - » Location of partitions and type of construction.
    - » Locations of any Tenant-provided toilet rooms, indicating dimensioned placement of plumbing fixtures.
4. Reflected ceiling plans (minimum ¼" = 1'-0") indicating the following:
    - » Ceiling materials and conditions.
    - » Ceiling heights.
    - » Location of all light fixtures, manufacturer's name and catalog number, lamps to be used, and mounting methods (recessed, surface, etc.).
    - » Location of sprinkler heads.
    - » Location of HVAC grilles.
    - » Location of exit signs, emergency exit lighting, etc.
5. Storefront elevation and section (minimum ¼" = 1'-0").
6. Typical interior elevations of all areas visible to the public (minimum ¼"=1'-0").
7. Interior finishes schedule.
8. Detailed signage drawings and connection details (minimum 1½" = 1'-0") providing elevation and section views, indicating letter style and size, all colors and materials, methods of illumination, color of illuminate, and voltage requirements. It is mandatory for food tenants to include menu board details as well as any proposed method of temporary signage (sales, daily or weekly specials) including location, size, materials, color, letter type, and framing method.
9. Mechanical drawings, including electrical, lighting, HVAC, plumbing and sprinkler, and load summaries. Drawings must be to scale and indicate placement of all MEP equipment, connected electrical loads, and weights of heavy equipment, cases, etc.
10. Plans to show utility connections for water, sewer, grease interceptor, electrical, telephone, and lighting.
11. Temporary construction barrier partition plan ("Mall Wall") (minimum ¼" = 1'-0"), and partition elevation (minimum ¼-" = 1'-0"). The Tenant must provide details of architectural temporary barricades, including dust and sound control measures. The entire Mall Wall must be covered with a Tenant provided wrap containing the words "Coming Soon" and a picture or logo of the new concession. See *Exhibit A* for more details.
12. Furnishing plan, specifications, materials and color selections, including samples.
13. Specifications.
14. Any other special facilities or installations in respect of the Tenant's work or which affect the Airport's facilities such as vaults and kitchen equipment. Drawings must indicate weight of heavy equipment (i.e. safes), outlet mounting height, refrigeration equipment, show cases, etc.
15. A dimensional location plan of all roof openings, required for any Tenant roof mounted equipment.
16. If specified in the Form A Review Letter, provide an asbestos abatement plan. No work may proceed in any area requiring asbestos removal until approval of the asbestos abatement plan by the Airport.
17. All ADA clearances, turnarounds, and counter heights as required by the latest version of the California Building Code.
18. Egress drawings and occupancy load calculations.
19. Traffic Control Plan: If traffic, both vehicular and pedestrian, is to be impacted in any way, submit a traffic plan that outlines the impact and a proposal to effectively reroute traffic or other mitigation measures. Section 12 Construction Area Traffic Control Devices of the City of San Jose Department of Public Works Standard Specifications also apply.

5.4 Tenant Improvement Submission Process

5.4.4.2 Standard Drawings Notes Requirements

The following notes must be on all drawings submitted for approval:

1. One set of permitted drawings is to be kept on site by the Tenant and available for checking at all times during construction.
2. All materials to meet flame spread rating requirements of AHJ.
3. All construction must be type A-1.
4. Demising walls are not designed to be load-bearing.
5. Align all tile floor control joints with base building floor joints, at the expense of the Tenant.
6. All work must be scheduled and approved by the Airport so that it does not interfere with Airport operations.
7. The Airport requires a Building Permit be obtained by the Tenant from the AHJ prior to commencing any site work. A copy of this permit must be submitted to the Airport Project Manager prior to the beginning of construction.
8. No cutting, coring, or attachment of inserts to the existing precast concrete elements, or application of adhesives paints or sealants, will be allowed without prior approval of the Airport. Adequate notice shall be undertaken prior to the intended installation. No penetration of the Terrazzo will be permitted.
9. All Hot Work will require a signed Airport hot work permit. See *Exhibit D*.
10. The Tenant's contractor shall provide the Airport 2 weeks' Notice prior to the start of work. This applies to the start of construction and to activities during construction that require a Notice of Work or work that may affect or require the assistance of Airport staff, which includes but is not limited to any hot work and electrical or fire sprinkler shut-downs.
11. Environmental Requirements
    - » The Airport supports the City of San Jose's Green Building Policy and strongly encourages all Tenants to incorporate sustainable practices in the construction and operation of their leased space. Additional information about sustainability can be found in *Section 4.2*.
    - » Some projects may have additional environmental requirements. If applicable, your assigned Airport Property Manager will inform Tenant of additional requirements.

5.4.4.3 Common Errors of Construction Document (Form B) Submittals

1. Proceeding with work before approval is given; the Airport has the authority to stop all work that has not been given approval to proceed or is not complying with Airport requirements, including any safety or security infractions.
2. Not including an approved construction wall, along with approved door hardware, to enclose any work in or within view of public areas. See *Exhibit A*.
3. Incomplete submissions. Submittal plans must include a Form B Application, responses to all Form A staff comments, and all plans, specifications, and calculations for the project.
4. Failure to follow CADD standards as outlined in *Exhibit B*.
5. Lack of information or gaps in text due to formatting issues.
6. Failure to respond to all Form A Airport staff comments.
7. Failure to submit the Construction Document Form B as a single complete PDF package. Submittals containing multiple individual documents will be rejected.

5.4 Tenant Improvement Submission Process

5.4.4.4 Airport Approval to Proceed and Resubmittals

The Construction Document (Form B) submission should be submitted to the Tenant's assigned Airport Property Manager. Upon arrival of submittal, the Property Manager will review the submission for completeness. If the submittal is incomplete or has not properly incorporated the changes required from the conceptual design review, the Property Manager may reject the submittal and require a resubmittal. If the submittal contains all of its required elements, the form will be sent to the Airport Tenant Improvement Reviewers for review. The Airport will use its best efforts to finalize its review within ten (10) working days from the receipt of submittal. Then, the Airport shall send the Tenant a Form B Review Letter approving the drawings and Issue Airport Approval to Proceed with Permitting with the Authority Having Jurisdiction, or a rejection and request for a Revised Form B. If a Revised Form B is required, the drawings must be changed and resubmitted for approval along with an item by item response sheet indicating where the required modifications are located in the revised drawings. The Form B Review Letter will detail all of the changes required. If a Revised Form B is required, the Tenant should expect another ten (10) working day review from the Airport prior to Airport Approval to Proceed with Permitting.

5.4.5 Review by the Authority Having Jurisdiction (AHJ)

Once the Tenant has received the Airport Approval to Proceed with Permitting, the Tenant may submit the construction documents to the Authority Having Jurisdiction. The Form B Review Letter will identify the Authority Having Jurisdiction and provide contact information for the AHJ. Depending on the project, the AHJ may be the Building Department or the Department of Public Works Structural Engineering and Code Inspection Division (SECI). All projects, regardless of scope of work, must be submitted to the proper AHJ. If permitting is not required, the Tenant Project Manager will be notified by the AHJ. The AHJ will not accept any submittal that does not contain an Airport Approval to Proceed with Permitting.

Once submitted to the AHJ, the project plan review will take approximately 4-6 weeks depending on the scope of work. The Tenant may be required to revise and resubmit drawings based on the AHJ's comments. The Tenant will be required to coordinate and pay all plan check fees with AHJ. Once the plan check is completed and there are no outstanding fees, the AHJ will issue a set of stamped and signed construction documents along with the required permits, instructions for inspection, etc. Once received, the Tenant must submit a copy of the permit and stamped and signed construction documents to their Airport Project Coordinator. The Tenant may then begin to coordinate construction.

5.4.6 Estimated Project Cost and Fee

The Airport does not have any fees for conceptual design, schematic design, and construction document review. However, it is the sole responsibility to the Tenant to hire the necessary California licensed engineers and architect needed to create these submittals. The Authority Having Jurisdiction will have a fee for plan review and permitting. These fees are determined by the AHJ and based on the scope of the project. Additionally, any project that requires a permit will need to be inspected by the AHJ after construction. AHJ inspection fees vary based on scope and trades involved. The cost of construction is the sole responsibility of the Tenant. The Airport will not provide financial aid for Tenant Improvement Projects.

5.4.7. Additional Notes on Correspondence and Submittals

Prior to Airport approval to proceed with permitting, all correspondence regarding the proposed project should be directed to the Airport Property Manager. After Airport Approval to Proceed with Permitting has been granted, all correspondence should be directed to the Airport Project Coordinator.

Both the Form A and Form B Submission Applications can be found on the Airport's website at https://www.flysanjose.com/standards-and-guidelines.

5.5 Tenant Improvement Construction Procedures

5.5.1 Preconstruction Meeting

If indicated in the Tenant's Form A Review Letter, larger scale projects will require a pre-construction meeting prior to the beginning of construction. If required, after receiving the required permit(s) from the AHJ, the Tenant shall conduct a pre-construction conference prior to the start of work. The meeting shall include the Tenant's Project Manager, the Contractor's on-site superintendent and project manager, as well as Airport Project Liaisons. The Tenant is to contact their Airport Project Coordinator for a list of the required Airport attendees. All pre-construction meetings shall be held in the Airport Administrative Offices located at 1701 Airport Boulevard. The meeting, which will be led by the Tenant or the Tenant's contractor, should include a clear agenda that discusses, but is not limited to, the following items:

1. The scope of work and location of the project.
2. The project's schedule with clear milestones marked, including beginning and end of construction.
3. Contractor parking.
4. Badging of employees to work at the Airport. Badges will be provided by the Airport. Any employee working at the Airport must present their badge when requested by an Airport employee.
5. Security plans and access. See https://www.flysanjose.com/standards-and-guidelines for Security Plan Template.
6. Inspection requests and inspection process.
7. Emergency contact list including one 24/7 point of contact.
8. Vehicle identification, permitting, operating requirements (ramp and/or movement area authorization) and parking.
9. Traffic Control plans.
10. Material delivery schedules and routes of delivery trucks.
11. If the AHJ is performing inspections, then AHJ forms are to be used.
12. Location of contractor lay-down area (storage of materials and equipment) if other than in the construction area.
13. Weekly construction meetings with minutes, including drawing clarifications, change orders, submittals, and RFI summaries and an updated project schedule.
14. Scheduled Electrical and Fire Shut-downs.
15. Mall Wall plans and Security information concerning Mall Wall locks and prohibited items.
16. Project closeout items and submittals.

5.5.1.1 Preconstruction Meeting Documents Required

Several documents are required prior to the beginning of the construction that should be submitted to the Airport Project Coordinator prior to the scheduled day of the preconstruction meeting. If these documents are not submitted, the Tenant's contractor may not begin to mobilize and start construction. The following documents are required prior to the scheduled day of the preconstruction meeting:

1. One (1) physical copy and one (1) digital copy of the project's permit and stamped and signed construction documents.
2. One (1) copy of the contractor's insurance policy (Certificate of Insurance). Please note that if the contractor's insurance policy is not consistent with the insurance requirements outlined in the Tenant's lease agreement, the certificates will be rejected and resubmission will be required.
3. One (1) original copy of the Contractor's payment bonds along with a written approval by the City's Attorney Office. It is the sole responsibility of the Tenant to submit the bonds to the Attorney's Office for review. The Airport will not accept the payment bonds without an approval letter (or email) by the City Attorney.
4. The Contractor's Hot Work Policy to be used for all hot work. Please note that the policy must be at least as stringent as the Airport's Hot Work Policy.
5. Complete project construction schedule as well as a construction phasing and operation plan.
6. If cranes are being used, a copy of the approved FAA Form 7460.
7. If core drilling is being performed, a copy of the GPR scanning results.
8. A signed copy of the Contractor's Security Plan.
9. A completed Notice of Work for the project. See *Exhibit C* for the Notice of Work Template.

In addition to the documents above, the Tenant must bring sufficient copies of the pre-construction agenda and schedule to each of the meetings for all attendees. The Tenant is expected to conduct the meeting and add any other points of discussion as pertinent to the project onto the agenda.

5.5 Tenant Improvement Construction Procedures

5.5.2 General Construction Guidelines

1. Contractor will accomplish the work described in the permit application without interfering with any other construction, maintenance, operation, or other activity authorized by the Airport and understands the Airport has the right to suspend the permitted work when any conflicts or interference occur for such a time as it deems necessary.
2. The work site shall be maintained as safe, clean, and orderly at all times.
3. Tenant and Tenant's contractor will restore contiguous areas affected by the improvements to original condition.
4. Contractor shall obtain all necessary Federal, State, County and City permits and shall comply with all applicable laws, codes, and regulations in addition to Airport rules and regulations regarding security badging.
5. Contractors working on Airport-controlled facilities or property must be duly licensed and provide proof of adequate insurances.
6. Contractor is responsible for contacting Underground Service Alert to identify buried utilities before digging.
7. Follow all other guidelines and information presented in this document.

5.5.3 Construction Site Access and On-Site Coordination

Construction sites may be accessed by lock and key, badge card scanner, or cyber lock. Depending on the location of the project, the site access may have different restrictions. In Public Areas, the contractor will have stricter requirements on tools, access, and hours of work. At a minimum, the Project Manager and Project Superintendent must be badged with escorting privileges. It is the responsibility to ensure that site-access is restricted to badged personal and personal under escort.

The Tenant will be required to coordinate all access and on-site activities with the designated Airport Project Coordinator from the Planning and Development Division. The contractor should schedule weekly on-site coordination meetings. Each meeting shall have an agenda determined by the contractor as well as a three week lookahead.

The Tenant is to coordinate all after-hours work, including but not limited to hot work, electrical shutdowns, fire alarm/sprinkler shutdowns, and excessively loud work with the Manager on Duty prior to beginning the work.

All projects occurring within the Airport's "Aircraft Movement Area" are subject to Airport and Federal Aviation Administration (FAA) rules and regulations under 14 Code of Federal Regulations (CFR) Part 139. Prior coordination and planning with the Airport and FAA to gain access to the Aircraft Movement Area is required.

5.5.4 Public Safety Requirements

Tenants and their contractors must pay particular attention to matters concerning safety while working near and around public areas of the Airport. It is the Tenant's responsibility to ensure that their contractors employ safety-conscious practices and the standards set by authorities having jurisdiction. Tenants and their contractors shall comply with and will adhere to all instructions regarding public safety, which may be issued during the course of construction by the Airport. If contractors fail to adhere to Public Safety Requirements they may be fined by both the Airport and TSA.

5.5 Tenant Improvement Construction Procedures

5.5.5 Cooperation and Mutual Responsibility of Contractors

Since there may be other Airport contractors, sub-contractors, subordinate sub-contractors, premises wiring contractors, special system contractors, airline system contractors, and other Tenant finish contractors working within or adjacent to the work site during the performance of the Tenant's work, the Tenant must anticipate in its scheduling, procurement, and cost estimating that its work will be interfered with or delayed from time to time by the acts or omissions of other contractors. Tenants must be prepared to work with the Airport and other contractors and sub-contractors to the maximum extent possible to avoid or mitigate any delay or hindrance of each other's work.

The Tenant's contractor shall afford the Airport and separate contractors reasonable and safe access to and across the Work Site and reasonable opportunity for the introduction and storage of their materials and equipment and the execution of their work within or adjacent to the Tenant's contractor Work Site. The Tenant shall coordinate their contract work with the work of other contractors to ensure that conflicting processes are not performed at the same time. The Airport may also require that certain facilities and areas be used concurrently by the Tenant's contractor and other persons.

If any part of the Tenant's contractor's work depends on the proper execution or results upon the work of the Airport or of any other contractor, the Tenant's contractor shall monitor and keep itself informed of the progress and details of such work of other contractor or the Airport by attendance at weekly construction meetings. If Tenant's contractor, through its acts or omissions, causes loss, damage, or delay to the work or property of any separate contractor, sub-contractor, or subordinate sub-contractor, the Tenant's contractor shall promptly report the damage to the Airport Project Coordinator and remedy such loss, damage or delay, or otherwise settle with such other contractor or sub-contractor by agreement or otherwise.

The Tenant's contractor shall obtain the approval of the Airport and notify all other affected contractors at least forty-eight (48) hours before commencing work, which may block access, or otherwise cause undue difficulty to occupants or users of property affected, and shall restore such access to a useable condition.

If the Tenant's contractor requires that utility shut-offs or similar events will occur during the course of construction, a Notice of Work shall be given to the Airport a minimum of two (2) weeks in advance. The Airport Project Coordinator will then issue that Notice to all parties that may be affected by the shutdown. The Tenant is to provide a detailed method of procedure (MOP) for shutdowns as well as information regarding all potential impacts to other equipment/ loads, Airport operations and Tenant operations.

5.5.6 Damages During Construction

The Tenant assumes sole responsibility for all damages to the existing facilities caused by Tenant Improvement Project work and will take immediate steps to replace or repair such damages. The contractor shall maintain the path of travel to and from the work area in a clean manner. The contractor shall clean the path of travel as needed and remove any dust and debris from the path of travel. Additionally, the contractor shall pay special attention to ensure proper cleaning and reporting of any spilling from construction vehicles as well as FOD on the Airside.

5.5 Tenant Improvement Construction Procedures

5.5.7 Temporary Barricades

Prior to demolition or construction, in order to prevent damage to adjacent leased premises and the public area, as well as to ensure proper security to the leased premises, the Tenant will be required to construct lease area temporary partitions and signage ("Mall Walls"). If a Mall Wall is required it will be noted in the project's Form A and Form B Review Letters. The Mall Wall shall be compliant with the details listed in *Exhibit A*. The exterior of the Mall Wall is to be painted white and contain signage that says "Coming Soon" with an advertisement for the project. All barricade signage should be submitted to the Airport Project Coordinator for approval prior to printing. If the contractor chooses to install the signage as a wall-wrap the contactor shall ensure there are no air bubbles or creases during installation. Prefabricated barricades are acceptable so long that they are as secure as the details outlined in *Exhibit A*.

The Tenant must also coordinate the Mall Wall set-up with Airport Security. Airport Security will create a lock and key issued to the contractor as well as a set for the Airport. Upon takeover of the premises, the Tenant will be completely responsible for the security of the premises. The Airport will not assume responsibility for damages including theft of the Tenant materials, fixtures or equipment for any reason whatsoever. Any tools that are stored behind the Mall-Wall as part of the Security Plan must be inspected and checked-in with the Manager on Duty and may not be taken out of the Mall Wall until construction is completed and tools are checked out. Tools will be required to remain stored in a locked box behind the mall wall when not in use. The Tenant is responsible for tool control and ensuring that no prohibited tools or items enter the Sterile area outside of the mall wall during the duration of the project. If tools are taken out of the space without check-out approval the contractor may be cited or fined by both the Airport and TSA.

All employees behind the Mall Wall must be badged or be under escort by a badged personnel. The contractor may not lock employees in the Mall Wall under any circumstances. No unbadged employees shall be permitted to work in the Mall Wall without supervision by an escort badged employee or a Security Watch. Failure to comply with Airport Security Requirements behind the Mall Wall may result in a citation or termination of the project.

5.5.8 Quality Control

The Tenant's contractor shall provide a quality construction product. To establish the level of quality, the Tenant, as a minimum, shall require its contractor to use the quality standards as apparent in the existing base building. This level of quality shall include without limitation, meeting or exceeding standards having to do with the grades, thickness, and strengths of construction and finish materials used. This level of quality also includes National or International Standards that must be met, any samples that must be submitted, any testing required assuring quality, any experience required of installers, all fabrication and installation tolerances and other related quality items.

All flooring must have a reinforced impermeable waterproofing system with a minimum wall application of 8'' high. All new or replaced water items such as floor drains will require full leak testing. Any damages to Airport or Tenant property caused by floor leakage and flooding will be the sole responsibility of the Tenant.

The Airport shall have the right to inspect all work, at any time and assure itself the minimum quality level required is being provided.

5.5.9 Substitution of Materials and Equipment

The Tenant may ask for substitution of specified material, equipment, or furnishings with equal or equivalent items only under the following circumstances:

1. The Tenant's contractor provides evidence to the Airport and the Tenant's Design Consultant which, in the Tenant Consultant's opinion, establishes that an item of specified material is not available.
2. The Tenant's contractor provides evidence which, in the Tenant Design Consultant's opinion, establishes that the specified item will have an unreasonable delivery time due to no fault of the Tenant's contractor.
3. If the special conditions of the Approved Contract Documents allow the use of equal or equivalent products.

5.5 Tenant Improvement Construction Procedures

5.5.10 Changes in the Work

All proposed modifications to the approved documents for the work must be submitted to the Airport Project Manager for review. No change order or other contract modification which materially changes the scope of the Improvements shall be executed without prior approval of the Airport. Any changes to the approved drawings must be submitted to the AHJ for permit prior to the work being done. If the Tenant chooses to proceed with work different from the drawing without contacting the AHJ, the Tenant is assuming full risk. A signed clarification drawing or RFI response altering the approved construction documents by the Project Architect or Engineer is required for any changes but is not sufficient as approval to change the scope of work. The clarification drawing or RFI response altering the approved construction documents must be submitted to the AHJ by the Tenant for approval prior to proceeding with the construction associated with the proposed change to the scope of work.

5.5.11 Defects and Uncovering Work

The Airport may elect to perform periodic site observations of the Tenant work as the work progresses. The purpose of these site observations is to determine on a periodic basis whether or not the Tenant contractor's work is adequate in providing the product expressed in the Design Intent and approved plans and specifications which the Airport approved in the Tenant's final design submittal. Defective Tenant work will be determined by comparing it to the Permitted Construction Contract Documents and approved Shop Drawings and Samples. Additionally, should the appearance and performance of any element of the work fail to conform to the standards of the trade for such work, that work may be declared defective.

The Tenant's contractor shall provide for the Airport and any party designated by the Airport all access including, but without limitation, ladders, access doors and ventilation needed to review the quality of the work.

5.5.12 Documents and Samples at the Work Site

The Tenant shall maintain at the work site on a current basis, one record copy of all approved drawings, specifications, addenda, change orders and change directives in good order and marked currently to record all changes made during construction, and copies of all approved Shop Drawings, Construction Drawings, Product Data and Samples for reference as necessary.

5.5.13 Access to Premises

Access to the Leased Premises for construction personnel and project materials will be as instructed by the Airport and may vary depending on the location of the particular area under construction. The Tenant is to work with its Property Manager to create a route to access the construction site which will need to be detailed in the Security Plan. Badge clearances will be based around that route, ensuring no unpermitted doors or areas are accessed.

5.5.14 Working Hours

Terminal Operations may result in contractors and suppliers being subjected to restrictions, which may be imposed by the Airport regarding the hours of work, scheduling and coordination of work. The tenant contractor must submit a work schedule for approval by the Airport.

In general, work shall be done during after hours. After hours are generally between 11:30 PM and 4:00 AM but may be delayed due to late fights. It is mandatory that the Airport Operations and the traveling public not be adversely affected during the course of this project. All work which is excessively loud, creates strong odors or could otherwise impact passengers must be performed after hours. Any hauling of materials, supplies, or demolition debris to and from the construction location shall be conducted during off-peak periods. Routes and schedules require approval from the Airport in order to limit impacts on Airport operations. If approved by the Airport, light day work may occur behind the Mall Walls. Any work being done overnight that may be disturbing to the Public must be coordinated with the Airport Project Coordinator and the Manager on Duty.

All fire sprinkler shutdowns and electrical shutdowns must be performed over night (11:30pm-4:00am). When performing fire sprinkler shutdowns, the contractor must incorporate the time it takes to drain the lines and fill the lines into their proposed work schedule. Shutdowns may be delayed further due to a late flight. The Tenant's contractor must contact the Manager On Duty each night before a fire or electrical shutdown for approval to proceed.

5.5.15 Construction Cranes

If a project requires a crane that is taller than the largest standing building in the immediate area, a Form FAA 7460-1 "Notice of Proposed Construction or Alteration" must first be submitted to the Airport for approval, and then submitted to the FAA. Once the FAA has responded, the Tenant must send a copy of the FAA "Letter of Determination" to the Airport.

5.5 Tenant Improvement Construction Procedures

5.5.16 Airport Security

It will be necessary for all tenants and construction personnel to comply with all applicable security regulations in effect at the Airport. Tenants and construction personnel shall adhere to security requirements such as:

- Airport Security Program (ASP)
- Airport SIDA Secured/SIDA Non-secured/Sterile/Non-SIDA Access and escorting policies
- Policy regarding Introduction/Possession of Prohibited Items in Sterile Areas of the Airport
- Airport Vehicle Media Program
- Keys and Lock Control

All tenants agree to follow the SJC ASP and Airport Rules and Regulations concerning security issues. Additionally, Tenants may be required to create a Security Plan with their Property Manager and follow the path of travel determined by the Security Plan throughout the duration of construction.

The Tenant understands that violations of the ASP or Rules and Regulations may result in the issuance of "Three Strikes" citations and Administrative Citations. Repeated Three Strikes offenses can result in the revocation of unescorted privileges within the SIDA/NON-SIDA areas. Administrative Citations can result in fines up to one thousand dollars ($1,000.00) to be paid by the individual employee or company it is issued to. The Tenant or its consultant companies also understand that they will be responsible for paying any security related fines assessed upon the Airport by the Transportation Safety Administration or other related governmental agency due to the actions of the Tenant employee's of employees of their sub-contractor.

Documents and information related to the above regulations as well as other security related requirements are available by request by emailing AirportSecurityCompliance@sanjoseca.gov.

The Airport prohibits unattended vehicles parked curbside. If for some reason the contractor/tenant needs to leave a vehicle unattended on the curbside, the contractor must coordinate with Airport Landside Operations and request that First Security curbside staff inspect the vehicle prior to the vehicle being left unattended. Curbside deliveries and off-hauling are limited to off-peak periods. Curbside deliveries may be delayed due to passenger traffic and Airport Operations.

5.5.17 Airport Security Plan

The project's Form A/B Review Letters will state if an Airport Security Plan is required. If it is a requirement, your Property Manager will provide you with a template to complete which outlines the following requirements:

- Contractor Information and Points of Contact.
- Access Points – personnel and vehicle access.
- Access Point Security.
- Key and Lock Control.
- Security Violations and Fines.
- Modification of Security Equipment.
- Project Specific Security – vehicle parking restrictions and restriction of prohibited items in the Sterile Area.
- Security Statements.

Construction activities will be restricted until your Airport Security Plan is approved. It will take a minimum of two weeks (10 business days) for Airport Security to complete the review. If the project impacts any portion of the secured boundaries, it must go through a review and approval process by the Transportation Security Administration (TSA). TSA approval may take extra time beyond the two week Airport Security review period.

5.5 Tenant Improvement Construction Procedures

5.5.18 Airport Badging

Portions of the project may be in areas where access is restricted for security reasons. Early application to the Airport Badging Office for all parties involved is recommended. Badging is a two-step process that may take several weeks. Each applicant must first submit documents for a background check and then go through badging testing after their background check is cleared. Background checks take approximately 2 weeks. All badging should be coordinated with the Tenant's signatory. The Project Coordinator and Property Manager will not act as a signatory on Tenant projects.

All construction personnel must be badged or be accompanied by an escort when entering the secure area. Escorts may escort up to five (5) unbadged personnel at a time. The sole job of an escort is to manage unbadged personnel. Escorts are not permitted to perform construction work while escorting. The Airport will not provide any escorts for Tenant work. If the Tenant requires additional escorts, they must contact their Project Coordinator for the contact information of an approved Security company. Tenant's contractors must return their badges within 30 days of project completion. Any lost, stolen, or unreturned badges will result in a fee.

5.5.19 Removal of Trash and Recyclables

The Tenant and contractors must adhere to the current and future rules and regulations concerning the Airport's Garbage and Recycling Program, including the use of the Airport-approved garbage and recycling bins. At a minimum, the Tenant must provide separate recycling bins for glass, plastic, and metals (if applicable) in addition to a separate garbage bin in both public and employee areas, and must separate all waste before removal from the Tenant space. All liquids must be removed from recyclable containers prior to disposal in recycle bins. Tenants should also separate their clean corrugated cardboard and place these in Airport-provided cardboard balers. Of most importance, paper and cardboard must be kept dry and separate from other recyclables and collected in clear plastic bags. Tenants must ensure all staff are trained to effectively separate waste to avoid contamination of the waste streams, and must adhere to any training or guidance provided by the Airport throughout their operations. In order to facilitate the removal of garbage and debris from the construction site, the Tenant shall confirm with the Airport as to the allowable locations for garbage bins.

5.5.20 Protection of the Property or Other Protection of Property

The Tenant's contractor shall take all reasonable safety precautions and shall provide all reasonable protection to prevent damage or loss to:

1. All the Work and all materials, equipment, systems, fixtures and furnishings to be incorporated therein, whether in storage on or off the work site, under the care, custody or control of the contractor, sub-contractor, subordinated contractors of any tier or suppliers.
2. Other property at the work site or adjacent thereto, including but without limitation, lawns, walks, pavements, roadways, structures, and utilities not designated for removal, relocation or replacement in the course of construction.

When material, equipment, debris or other items are being brought into or taken out of the terminal, the contractor shall take measures to protect the terrazzo, walls, columns, elevators, and other terminal infrastructure. Contractors shall use carts with non-skid wheels, pallet-movers with non-marking wheels and, as needed, place Masonite mats or other protective covering on the terrazzo and walls in order to prevent scuffing, scratches, gouges, skid marks and other damage to the terrazzo. Under no circumstance shall items be dragged across terrazzo floors.

5.5.21 Work Done in Public Areas

All work which is excessively loud, creates strong oders or could otherwise impact passengers must be done over night. Light day work may be done behind a mall wall.

The Airport will allow temporary scaffolding for the installation of storefronts and signs as necessary. Only scaffolding with non-marking rubber tires is permitted. All materials and equipment deliveries to the Leased Premises where the materials cross public area floors must be on dollies with non-marking rubber tires. All other construction work must take place within the Leased Premises.

5.5 Tenant Improvement Construction Procedures

5.5.22 Quiet Enjoyment

The Tenant and its contractors are responsible for ensuring that during construction of the Leased Premises the rules and regulations of the Airport are followed to ensure that other Tenants who are open for business may have quiet enjoyment for their premises. Primarily, any work which is excessively loud or disturbs the general flow of public traffic must be done after hours (11:30PM-4:00AM) so it does not disrupt passenger flow or Airline operations. Loud work may also cause an alarm inside of the Terminal area when performed during day operations.

5.5.23 Drilling or Cutting of Floors, Roofs, etc.

The Tenant and its contractors shall not cut holes or openings of any description in any part of the structure without the prior written approval of the Airport. The contractor shall scan the area prior to core drilling of concrete structures using the Ground Penetrating Radar (GPR) method. The contractor shall submit a copy of the GPR results to Airport staff, prior to core drilling, verifying that the area is clear of any conduits, rebar, post tension tendons, etc.

5.5.24 Parking

Remote parking of vehicles by the Tenant's workmen will be confined to those specific areas set aside for them. Contractor's trailers may only be parked in designated areas approved by the Airport in writing. Only specifically permitted vehicles will be allowed to park in the designated spaces. The Tenant will submit information to Airport Operations regarding the make and model of the car, license plate number, etc. Unmarked contractor vehicles shall receive a citation.

The Airport prohibits unattended vehicles parked curbside. Any parking /staging of vehicles at the curb for delivery or removal of materials must be coordinated with the Airport Operations Center and Landside Operations. The following information should be provided before the arrival / staging / parking of any vehicles at the curb and in close proximity to the terminal building to the extent possible:

- Company Name
- Vehicle type, color, and license plate number
- Reason for staging at the curb
- Anticipated length of stay at the curb

Upon arrival at the curb, the vehicle will be inspected by an Airport Security or Curb Enforcement Guard and a 'Parking Permit' placard will be placed in the vehicle authorizing its presence.

5.5.25 Engineering Requirements

Dedicated circuits are recommended for all new proposed electrical equipment. If existing outlets are used, the Tenant must verify that the load is within the panel's capacity and provide load calculations in their Construction Drawings. If there are any circuit breaker trips due to additional load on an existing receptacle, it may result in bill back costs for Airport response to reset. In addition, there may be a delay in Airport Facilities Response due to other workload.

All new wires and cabling shall be routed in conduit, be plenum rated or be routed in cable trays. Cabling shall not be abandoned in place. All unused existing cabling shall be removed. All new electrical wires and cables should be labeled.

Any equipment containing ice/water/refrigeration must have a local moisture sensor with alarms. The Tenant shall provide proof of this to the Airport it its Form B submission.

5.5.26 Hot Work Procedure

Any work requiring welding, cutting, grinding, or any other activity involving open flames, sparks, or other ignition sources that may cause smoke, fire, or can trigger fire detection systems is defined as Hot Work and requires an SJC Hot Work permit before beginning such operations (see *Exhibit D*). Additionally, the individual preforming the work must have successfully completed hot work safety training. The Tenants contractor is required to submit a separate Notice of Work and Hot Work Permit for each instance Hot Work is being perform. The Tenant's contractor shall provide the Airport with a copy of their company's Hot Work Policy and ensure that it at least as stringent as the Airport's Hot Work Policy. A Fire Watch must be present during all hot work and remain present for at least one hour after the hot work is completed.

The Airport prohibits Hot Work being performed in an area where the Fire Sprinkler system is drained. Thus, the Tenant may have to postpone their Hot Work if a different Tenant is planning a shutdown in that Area. During Hot Work, the Fire Alarm System must be placed in Test Mode with an Airport Approved Fire Watch at the Fire Control Panel. In some instances, after receiving explicit Airport approval, the contractor may be granted permission to cover smoke detection devices in lieu of place in the Fire Alarm System in Test Mode. If smoke detection devices are covered, the Tenant must uncover the devices immediately after the work is completed.

5.6 Occupancy and Project Close-Out

5.6.1 Inspections

The Authority Having Jurisdiction will inspect and test the Tenant's construction work (hereafter called the Work). The AHJ may perform any tests to observe the Tenant's contractor work to determine whether or not designs, materials used, manufacturing and construction processes and methods applied, and equipment, furnishings, fixtures, systems and finishes installed satisfy the requirements of the permitted construction drawings. The Tenant's contractor shall permit inspectors access and provide the means of access to the Work as well as whatever access and means of access is needed to off-site facilities used to store or manufacture materials, furnishings, fixtures and equipment to be incorporated into the Work, and shall respond to any other reasonable request to further the inspectors observations. Any tests required to be performed as a result of an inspector's observations shall not relieve the Tenant's contractor of any of its obligations under its owner-contractor agreement.

It is the Tenant's responsibility to schedule all inspections with the AHJ. The AHJ must be contacted at least 48 hours prior to the proposed inspection date using the Form given to the Tenant with their permit. The Tenant must submit a separate request to the AHJ for each trade inspection (Mechanical, Electrical, Plumbing, etc.). Fire inspections require a fire shutdown and must be performed overnight. It is advised that the contractor allow for a longer lead time with the fire inspection request. The AHJ is the only institution that may grant Temporary Occupancy to the Tenant.

The Tenant's contractor shall provide the Airport Coordinator with a punch list of outstanding items based on inspection results. The project cannot be closed out until all punch list items are completed.

5.6.2 Certificate of Substantial Completion

When the Airport determines that the Work or designated portion thereof is complete to its satisfaction, the Tenant will prepare a Certificate of Substantial Completion of the Work, which shall establish the date of substantial completion of the Work and initiate the Warranty Period. The Certificate shall state the responsibilities of the Tenant, the Airport and the Tenant's contractor for security, maintenance, property insurance premiums, and damage to the Work. It shall also state items still to be completed by the Tenant's contractor and fix the time within which the Tenant's contractor shall complete the items listed therein.

5.6.3 Final Inspection and Acceptance of the Work

The Tenant's contractor shall notify the Airport Project Coordinator in writing when all the punch list items have been completed and clean up has been done. The Tenant, the Tenant's Contractor and the representative of the Airport will then do a final site walk through to verify the completion of all punch list items. Final occupancy may only be granted by the AHJ. The Airport does not have the authority to grant Temporary or Final Occupancy of project spaces. Once final occupancy is granted, the Tenant must provide the Airport Project Coordinator with a final signed-off permit card, along with the as-built drawings in CAD and PDF formats.

5.6.4 Occupancy Permit

After the contractor receives final inspection, but before occupancy is permitted and the project can be accepted as complete, the following documents shall be provided by the Tenant:

- Final Sign-off by the Fire Department. The Fire Department provides this to the Airport. This must be obtained before acceptance is granted.
- If a fee was paid, a signed Occupancy Permit by the AHJ.
- Permit to Operate from Other Agencies if required.

5.6.5 Close-out

Completion of Construction – Leased Premises Requirements

1. The Tenant will submit one Maintenance Manual at completion of project on application for Certificate of Substantial Performance. Manual shall consist of approved stamped and signed shop drawings, extended warranties, project name and cover, etc. in a hard cover, black, vinyl, three ring, loose leaf binder. Separate data in individual sections with tabs.
2. The Tenant shall submit project record drawings ("As Builts") in the form of AutoCAD files in compliance with the CADD standards outlined in *Exhibit B* and PDF electronic files of each completed leased location. The Tenant shall forward as-built drawings with electronic copies (CD) to the Airport within thirty (30) days of acceptance. If available, Tenant is to provide Airport with Building Information Model.
3. The Tenant shall provide the Airport Project Coordinator with a copy of the final signed-off permit card.
4. Project Audit - If Airport fees were collected, the Airport will complete an audit of the project once the project is accepted. The results of the audit will be managed by the Tenant's Airport Property Manager for final resolution. The audit does not apply to the Building Department plan reviews or inspections.

5.7 Airport Contacts

Mineta San Jose International Airport
Planning and Development Division
(408) 392-3600
1701 Airport Blvd - Suite B1130
San Jose, CA 95110

Additional Airport contacts and Airport sole-sourcing contacts can be found at https://www.flysanjose.com/standards-and-guidelines

Issued April 15, 2019

SJC

6. Exhibits

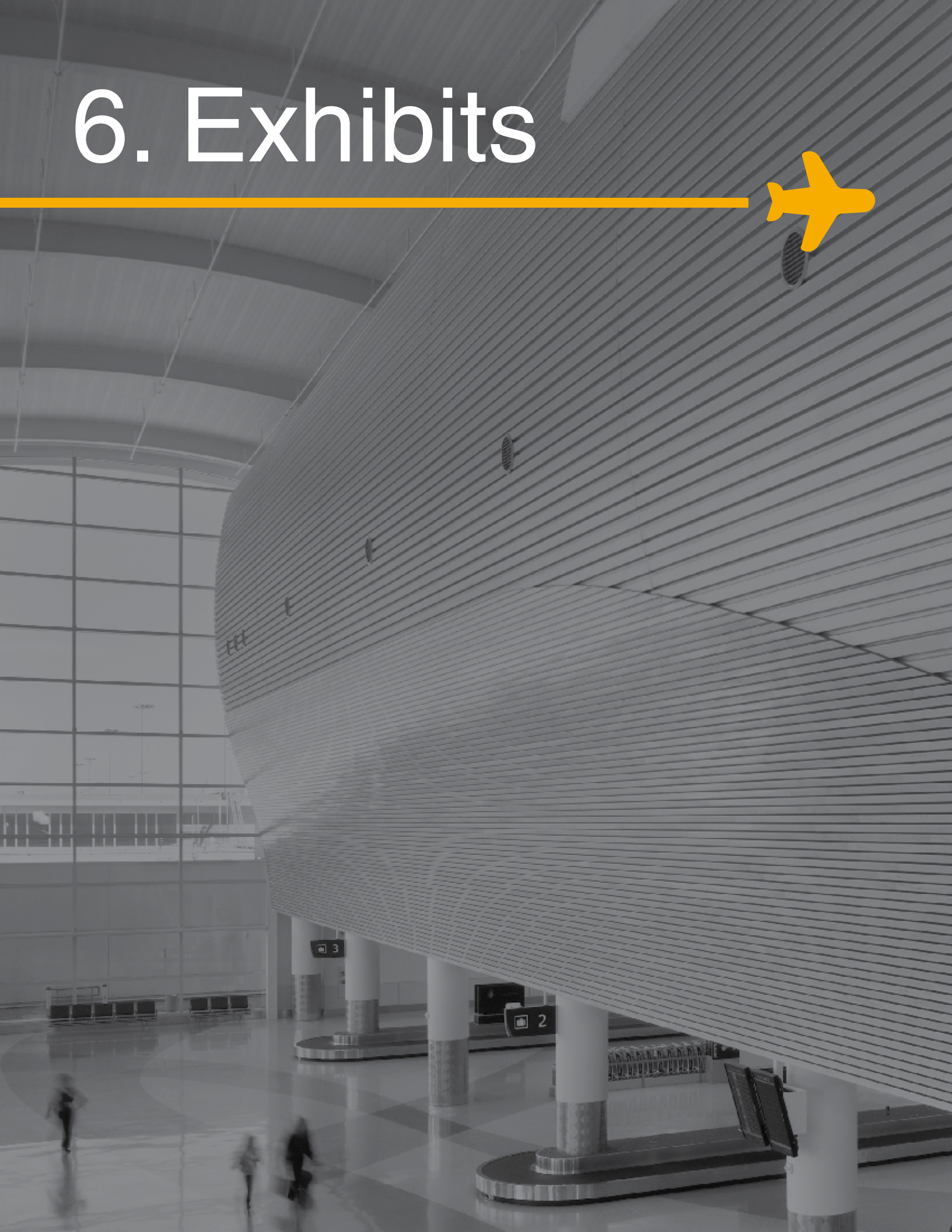
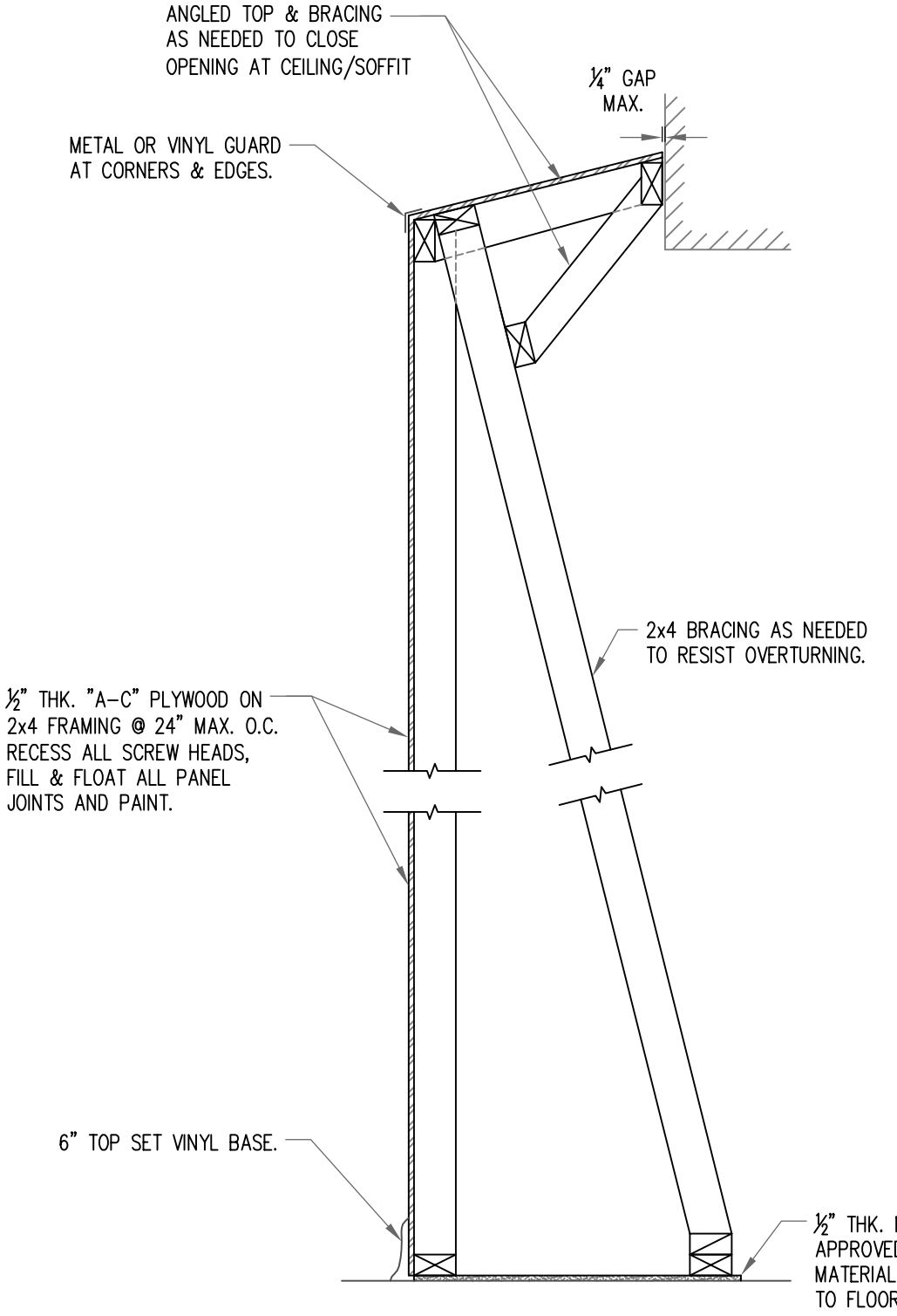


Exhibit A



NOTES:

1. ALL JOINTS BETWEEN WALL PANELS SHALL BE FLOATED AND PAINTED TO MIN. LEVEL 4 FINISH.
2. ALL SCREW HEADS SHALL BE RECESSED, FILLED AND PAINTED.
3. THE WALL SHALL BE PAINTED WITH KELLY MOORE "SWISS COFFEE" SATIN SHEEN PAINT.
4. THE BOTTOM OF THE WALL SHALL HAVE 6" HIGH VINYL FLOOR BASE. (BURKE #244 "OFF WHITE" OR APPROVED EQUAL).
5. THE TOP OF THE WALL SHALL BE FINISHED WITH A CONTINUOUS METAL EDGE.
6. CORNERS AND EDGES SHALL BE PROTECTED WITH A METAL EDGE GUARD WITH ROUNDED CORNERS AND CONCEALED FASTENERS OR HARD PLASTIC GUARD. THE GUARD SHALL EXTEND A MIN. OF 5' ABOVE THE FLOOR AND PAINTED WITH KELLY MOORE "SWISS COFFEE" SATIN SHEEN PAINT.
7. ATTACHING TO THE FLOOR IS NOT ALLOWED.
8. PROTECT THE FLOOR AND CEILING FROM DAMAGE.
9. ENSURE THERE ARE NO GAPS MORE THAN ¼" IN WIDTH AT OPENINGS INTO WORK SPACE (HEAD, JAMBS & SILL).
10. CROSS-BRACING SHALL BE INSTALLED ON THE INTERIOR SIDE OF THE WALL AS NEEDED TO PREVENT OVERTURNING.
11. PROVIDE SWING DOOR (OR PAIR OF DOORS) OF APPROPRIATE HEIGHT AND WIDTH FOR PASSAGE OF CONTRACTOR PERSONNEL AND EQUIPMENT.
12. DOOR(S) TO BE EQUIPPED WITH HASP TO ACCEPT CYBERLOCK ON PUBLIC SIDE OF WALL AND SLIDE BOLT ON WORK AREA SIDE OF WALL; (CYBERLOCK IS PROVIDED ON LOAN BY AIRPORT OPERATIONS – SECURITY AND MUST BE RETURNED AT COMPLETION OF WORK).

TYPICAL CONSTRUCTION WALL

N.T.S

NORMAN Y. MINETA SAN JOSE INTERNATIONAL AIRPORT

MINETA SAN JOSE INTERNATIONAL AIRPORT
AIRPORT PLANNING AND DEVELOPMENT
1701 AIRPORT BOULEVARD, SUITE B-1130
SAN JOSE, CA 95110

DRAWING TITLE: TYPICAL CONSTRUCTION WALL

DESIGNED BY:
DRAWN BY:
CHECKED BY:
APPROVED BY:
DATE: 8 July 2014

DRAWING NO:

SCALE: N.T.S

SHEET SIZE: 8.5x11

Exhibit B

DISCIPLINE DESIGNATORS

Discipline	Designator
- A -	Architectural
- B -	Geotechnical
- C -	Civil
- D -	Process
- E -	Electrical
- F -	Fire Protection
- G -	General
- H -	Hazardous Materials
- I -	Interiors
- L -	Landscape
- M -	Mechanical
- O -	Operations
- P -	Plumbing
- Q -	Equipment
- R -	Resource
- S -	Structural
- T-	Telecommunications
- V -	Survey (include pot holing, bldg corners, survey controls, benchmarks, etc.)
- W -	Civil Works
- X -	Other Disciplines
- Z -	Contractor/Shop Drawings

MODEL FILE TYPE DESIGNATORS

Model File Types		
Discipline	**Code**	**Definition**
General		
	BS	Border Sheet
	KP	Key Plan
Hazardous Materials		
	DT	Detail
	EL	Elevation
	LG	Legend
	PP	Pollution Prevention Plan
	SC	Section
	XD	Existing/Demolition Plan
Survey/Mapping		
	AL	Existing Airfield Lighting Plan
	CP	Existing Communication Plan
	EU	Existing Electrical Utilities Plan
	FU	Existing Liquid Fuel Utilities Plan
	HP	Hydrographic Survey Plan
	HT	Existing HTCW Utilities Plan
	IW	Existing Industrial Waste Water Plan
	LG	Legend
	NG	Existing Natural Gas Utilities Plan
	PB	Project Boundary
	PR	Existing Profile
	SC	Existing Section
	SP	Survey and Mapping Plan
	SS	Existing Sanitary Sewer Plan
	ST	Existing Storm Sewer Plan
	WA	Existing Domestic Water Plan

Model File Types		
Discipline	**Code**	**Definition**
Geotechnical		
	BL	Boring Location Plan
	LB	Boring Log
	LG	Legend
	SH	Schedule
Civil		
	AF	Airfield Plan
	AM	Airfield Pavement Marking Plan
	CP	Channel Plan
	DT	Detail
	EC	Erosion Control Plan
	EL	Elevation
	FU	Liquid Fuel Utilities Plan
	GP	Grading Plan
	IP	Installation Plan/Base Map
	IW	Industrial Waste Water Plan
	JP	Joint Layout Plan
	KP	Staking Plan
	LG	Legend
	NG	Natural Gas Utilities Plan
	PL	Project Location Map
	PR	Profile
	SC	Section
	SH	Schedule
	SP	Site Plan
	SS	Sanitary Sewer Plan
	ST	Storm Sewer Plan
	TS	Transportation Site Plan
	WA	Domestic Water Plan

Model File Types		
Discipline	**Code**	**Definition**
	XD	Existing/Demolition Plan
Landscape		
	DT	Detail
	EL	Elevation
	IP	Irrigation Plan
	LG	Legend
	LP	Landscape Plan
	SC	Section
	SH	Schedule
	XD	Existing/Demolition Plan
Structural		
	3D	Isometric/3D
	CP	Column Plan
	DT	Detail
	EL	Elevation
	EP	Enlarged Plan
	FP	Framing Plan
	LG	Legend
	NB	Non-Building Structures Plan
	NP	Foundation Plan
	SC	Section
	SH	Schedule
	XD	Existing/Demolition Plan
Architectural		
	3D	Isometric/3D
	AC	Area Calculations/Occupancy Plan
	CP	Reflected Ceiling Plan
	DT	Detail
	EL	Elevation

Model File Types		
Discipline	**Code**	**Definition**
	EP	Enlarged Plan
	FP	Floor Plan
	GR	Grid
	LG	Legend
	KP	Key Plan
	ML	Match Line
	MR	Match Line Reference
	QP	Equipment Plan
	RP	Roof Plan
	SC	Section
	SH	Schedule
	XD	Existing/Demolition Plan
Interiors		
	3D	Isometric/3D
	DT	Detail
	EL	Elevation
	EP	Enlarged Plan
	LG	Legend
	QP	Equipment Plan
	RP	Furniture Plan
	SC	Section
	SH	Schedule
	SP	Signage Placement Plan
	WP	System/Prewired Workstation Plan
	XD	Existing/Demolition Plan
Fire Protection		
	DG	Diagram
	DT	Detail
	FA	Fire Alarm/Detection Plan

Model File Types		
Discipline	**Code**	**Definition**
	FP	Fire Suppression Plan
	LG	Legend
	LP	Life Safety Plan
	SH	Schedule
	XD	Existing/Demolition Plan
Plumbing		
	DG	Diagram
	DT	Detail
	EL	Elevation
	EP	Enlarged Plan
	LG	Legend
	PP	Piping Plan
	SH	Schedule
	XD	Existing/Demolition Plan
Mechanical		
	3D	Isometric/3D
	DG	Diagram
	DT	Detail
	EL	Elevation
	EP	Enlarged Plan
	HP	HVAC Plan
	HT	HTCW Utilities Plan
	LG	Legend
	MD	Machine Design Plan
	MH	Material Handling Plan
	PP	Piping Plan
	QP	Equipment Plan
	SC	Section
	SH	Schedule

Model File Types		
Discipline	**Code**	**Definition**
	SP	Specialty Piping Plan
	XD	Existing/Demolition Plan
Electrical		
	AL	Airfield Lighting Plan
	AP	Auxiliary Power Plan
	CP	Exterior Communication Systems Plan
	DG	Diagram
	DT	Detail
	EU	Electrical Utilities Plan
	GP	Grounding System Plan
	LG	Legend
	LP	Lighting Plan
	PP	Power Plan
	SH	Schedule
	SS	Special Systems Plan
	XD	Existing/Demolition Plan
	PC	Power & Communication
Telecommunications		
	DG	Diagram
	DT	Detail
	LG	Legend
	SH	Schedule
	TP	Telephone/Data Plan
	XD	Existing/Demolition Plan

SHEET FILE TYPE DESIGNATORS

Sheet File type – Level 2 Discipline Designator			
Discipline	**Designator**	**Description**	**Content**
General			
	G-	All General	All or any portion of subjects in the following Level 2 Designators
	GI	General Informational	Drawing index, code summary, symbol legend, orientation maps
	GC	General Contractual	Phasing, schedules, contractor staging areas, fencing, haul routes, erosion control, temporary and special requirements
	GR	General Resource	Photographs, soil borings
Hazardous Materials			
	H-	All Hazardous Materials	All or any portion of subjects in the following Level 2 Designators
	HA	Asbestos	Asbestos abatement, identification, or containment
	HC	Chemicals	Toxic chemicals handling, removal or storage
	HL	Lead	Lead piping or paint removal
	HP	PCB	PCB containment and removal
	HR	Refrigerants	Ozone depleting refrigerants
Survey/Mapping			
	V-	All Survey/Mapping	All or any portion of subjects in the following Level 2 Designators
	VA	Aerial Survey	
	VF	Field Survey	
	VH	Hydrographic Survey	
	VI	Digital Survey	
	VU	Combined Utilities	
Geotechnical			

Sheet File type – Level 2 Discipline Designator			
Discipline	**Designator**	**Description**	**Content**
	B-	All Geotechnical	
Civil Works			
	W-	All Civil Works	
Civil			
	C-	All Civil	All or any portion of subjects in the following Level 2 Designators
	CD	Civil Demolition	Structure removal and site clearing
	CS	Civil Site	Plats, dimension control
	CG	Civil Grading	Excavation, grading , drainage, erosion control
	CP	Civil Paving	Roads, driveways, parking lots
	CI	Civil Improvements	Pavers, flagstone, exterior tile, furnishings, retaining walls, and water features
	CT	Civil Transportation	Waterways, wharves, docks, trams, railways, airfields, and people movers
	CU	Civil Utilities	Water, sanitary sewer, storm sewer, power, communications, fiber optic, telephone, cable television, natural gas, and steam systems
Landscape			
	L-	All Landscape	All or any portion of subjects in the following Level 2 Designators
	LD	Landscape Demolition	Protection and removal of existing landscaping
	LI	Landscape Irrigation	
	LP	Landscape Planting	
Structural			
	S-	All Structural	All or any portion of subjects in the following Level 2 Designators
	SD	Structural Demolition	Protection and removal

Sheet File type – Level 2 Discipline Designator			
Discipline	**Designator**	**Description**	**Content**
	SS	Structural Site	
	SB	Structural Substructure	Foundations, piers, slabs, and retaining walls
	SF	Structural Framing	Floors and roofs
Architectural			
	A-	All Architectural	All or any portion of subjects in the following Level 2 Designators
	AD	Architectural Demolition	Protection and removal
	AS	Architectural Site	
	AE	Architectural Elements	General architectural
	AI	Architectural Interiors	
	AF	Architectural Finishes	
	AG	Architectural Graphics	
	AB	Baggage System	
Interiors			
	I-	All Interiors	All or any portion of subjects in the following Level 2 Designators
	ID	Interior Demolition	
	IN	Interior Design	
	IF	Interior Furnishings	
	IG	Interior Graphics	Murals and visuals
Equipment			
	Q-	All Equipment	All or any portion of subjects in the following Level 2 Designators
	QA	Athletic Equipment	Gymnasium, exercise, aquatic, and recreational
	QB	Bank Equipment	Vaults, teller units, ATMs, drive-through

Sheet File type – Level 2 Discipline Designator			
Discipline	**Designator**	**Description**	**Content**
	QC	Dry Cleaning Equipment	Washers, dryers, ironing, and dry cleaning
	QD	Detention Equipment	Prisons and jails
	QE	Educational Equipment	Chalkboards, library
	QF	Food Service Equipment	Kitchen, bar, service, storage, and processing
	QH	Hospital Equipment	Medical, exam, and treatment
	QL	Laboratory Equipment	Science labs, planetariums, observatories
	QM	Maintenance Equipment	Housekeeping, window washing, and vehicle servicing
	QP	Parking Lot Equipment	Gates, ticket, and card access
	QR	Retail Equipment	Display, vending, and cash register
	QS	Site Equipment	Bicycle racks, benches, playgrounds
	QT	Theatrical Equipment	Stage, movie, rigging systems
	QV	Video/Photographic	Equipment Television, darkroom, and studio
	QY	Security Equipment	Access control and monitoring, surveillance
Fire Protection			
	F-	All Fire	Protection All or any portion of subjects in the following Level 2 Designators
	FA	Fire Detection and Alarm	
	FX	Fire Suppression	Fire extinguishing systems and equipment
Plumbing			
	P-	All Plumbing	All or any portion of subjects in the following Level 2 Designators

Sheet File type – Level 2 Discipline Designator			
Discipline	**Designator**	**Description**	**Content**
	PD	Plumbing Demolition	Protection, termination, and removal
	PS	Plumbing Site	Extensions and connections to Civil Utilities
	PP	Plumbing Piping	Piping, valves, and insulation
	PQ	Plumbing Equipment	Pumps and tanks
	PF	Foundation & Substructure	
	PG	General Information	
Process			
	D-	All Process	All or any portion of subjects in the following Level 2 Designators
	DD	Process Demolition	Protection, termination, and removal
	DS	Process Site	Extension and connection to civil utilities
	DL	Process Liquids	Liquid process systems
	DG	Process Gases	Gaseous process systems
	DP	Process Piping	Piping, valves, insulation, tanks pumps, etc.
	DQ	Process Equipment	Systems and equipment for thermal, electrical, materials handling, assembly and manufacturing, nuclear, power generation, chemical, refrigeration, and industrial processes
	DE	Process Electrical	Electrical exclusively associated with a process and not the facility
	DI	Process Instrumentation	Instrumentation, measurement, recorders, devices and controllers (electrical and mechanical)
Mechanical			
	M-	All Mechanical	All or any portion of subjects in the following Level 2 Designators

Sheet File type – Level 2 Discipline Designator			
Discipline	**Designator**	**Description**	**Content**
	MD	Mechanical Demolition	Protection, termination, and removal
	MS	Mechanical Site	Utility tunnels and piping between facilities
	MH	Mechanical HVAC	Ductwork, air devices, and equipment
	MP	Mechanical Piping	Chilled and heated water, steam
	MI	Mechanical Instrumentation	Instrumentation and controls
	MF	Foundation & Substructure	
	MG	General Information	
Electrical			
	E-	All Electrical	All or any portion of subjects in the following Level 2 Designators
	EA	Electrical Airfield Lighting and Navaids	Visual air navigation systems
	ED	Electrical Demolition	Protection, termination, and removal
	ES	Electrical Site	Exterior electrical systems (power, lighting, telecommunications, auxiliary)
	EP	Electrical Interior Power	Interior power
	EL	Electrical Interior Lighting	Interior lighting
	EI	Electrical Instrumentation	Controls, relays, instrumentation, and measurement devices
	ET	Electrical Interior	Telecommunications Interior telecommunications (telephone, network, voice and data cables)
	EY	Electrical Interior	Auxiliary Systems Interior auxiliary (alarms, nurse call, security, CCTV, PA, music, clock, and program)

Sheet File type – Level 2 Discipline Designator			
Discipline	**Designator**	**Description**	**Content**
	EF	Foundation & Substructure	
	EG	General Information	
Telecommunications			
	T-	All Telecommunications	All or any portion of subjects in the following Level 2 Designators
	TD	Telecommunications Demolition	Protection, termination, and removal
	TN	Data Networks	Network cabling and equipment
	TT	Telephone	Telephone systems, wiring, and equipment
Resource			
	R-	All Resource	All or any portion of subjects in the following Level 2 Designators
	RC	Resource Civil	Surveyor's information and existing civil drawings
	RS	Resource Structural	Existing facility structural drawings
	RA	Resource Architectural	Existing facility architectural drawings
	RM	Resource Mechanical	Existing facility mechanical drawings
	RE	Resource Electrical	Existing facility electrical drawings
Other Disciplines	X		
Contractor/Shop Drawings	Z		
Operations	O		

SJC LEVEL/LAYER TABLE

Name	Description	Color	Style
A-ANNO-DIMS-E	Witness/extension lines, dimension terminators, dimension text	7	Continuous
A-ANNO-LEGN-E		7	Continuous
A-ANNO-SYMB-E	Miscellaneous symbols	6	Continuous
A-ANNO-TEXT-E	Miscellaneous text and callouts with associated leaders	7	Continuous
A-AREA-LINE-E	Architectural area calculation boundary lines	4	Continuous
A-BAGS-CLMD-E	Claim Device	201	Continuous
A-BAGS-EQPM-E	Equipment	201	Continuous
A-BAGS-ICNV-E	Inbound Baggage Conveyor	7	Continuous
A-BAGS-OCNV-E	Outbound Baggage Conveyor	7	Continuous
A-CLNG-OPEN-E	Openings, ceiling/roof penetrations (see also A-FLOR-OVHD in Model File Type: Floor Plan)	8	Continuous
A-CLNG-SUSP-E	Suspended elements, ceiling mounted specialties (e.g., clocks, fans, etc.)	5	Continuous
A-COLS-ENCL-E	Column enclosures/fire protection	4	Continuous
A-DOOR-FULL-E	Full height (to ceiling) door: swing and leaf	3	Continuous
A-DOOR-PRHT-E	Partial height door: swing and leaf	6	Continuous
A-ELEV-PFIX-E	Plumbing fixtures	6	Continuous
A-EQPM-FIXD-E	Fixed equipment	4	Continuous
A-EQPM-MOVE-E	Moveable equipment	6	Continuous

Name	Description	Color	Style
A-EQPM-SECR-E	Security Checkpoint Equipment	0	Continuous
A-FLOR-CASE-E	Casework (manufactured cabinets)	3	Continuous
A-FLOR-CLSTE-E			
A-FLOR-EVTR-E	Elevator cars and equipment	2	Continuous
A-FLOR-FIXT-E	Floor mounted/Free standing miscellaneous fixtures	3	Continuous
A-FLOR-FURN-E	Furniture	7	Continuous
A-FLOR-HRAL-E	Stair and balcony handrails, guard rails	1	Continuous
A-FLOR-LEVL-E	Level changes, shafts, ramps, pits, breaks in construction, and depressions	6	Continuous
A-FLOR-OTLN-E	Floor outline/perimeter/building footprint	6	Continuous
A-FLOR-SPCL-E	Architectural specialties (e.g., toilet room accessories, display cases)	3	Continuous
A-FLOR-STRS-E	Stair risers/treads, escalators, ladders	2	Continuous
A-FLOR-TPTN-E	Toilet partitions	1	Continuous
A-GLAZ-FULL-E	Full height glazed walls and partitions (see A-WALL-CWMG for curtain walls)	1	Continuous
A-GLAZ-PRHT-E	Windows and partial height glazed partitions	1	Continuous
A-ROOF-CRTS-E	Crickets flow arrows flow info	1	Continuous
A-ROOF-OTLN-E	Roof perimeter/edge, roof geometry	6	Continuous
A-ROOF-PATT-E	Roof surface patterns, hatching	7	Continuous
A-ROOF-WALK-E	Roof walkways	3	Continuous

Name	Description	Color	Style
A-ROOF-WALL-E	Parapet walls and wall caps	2	Continuous
A-RSTR-CASE-E	Restroom casework		
A-RSTR-SINK-E	Restroom sinks		
A-RSTR-TLET-E	Restroom toilets		
A-RSTR-TPTN-DOOR-E	Restroom stall doors		
A-RSTR-TPTN-E	Restroom stall walls		
A-RSTR-URIN-E	Restroom urinals		
A-WALL-CNTR-E	Wall centerlines	5	Center2
A-WALL-FULL-EXTR-E	Exterior full height walls	2	Continuous
A-WALL-FULL-INTR-E	Interior full height walls	3	Continuous
A-WALL-MOVE-E	Moveable walls/partitions	5	Continuous
A-WALL-PRHT-E	Partial height walls (do not appear on Reflected Ceiling Plan)	1	Continuous
C-AIRF-AIDS-OTHR-E	Other airfield navigational aides	2	Continuous
C-AIRF-PROP-E	Airport property	84	Dashed
C-APRN-ACPK-E	Aircraft gate/stand parking area	4	Continuous
C-APRN-JOIN-E	Apron joints	2	Continuous
C-APRN-MOOR-E	Mooring points	2	Continuous
C-APRN-MRKG-E	Apron markings	4	Continuous
C-BLDG-OTLN-E	Buildings and other structures	7	Continuous
C-BLDG-OTLN-OFAP-E	Off Airport Buildings and other structures	0	
C-CHAN-CNTR-E	Channel centerline and survey report lines	5	DashDot2
C-PKNG-CNTR-E	Centerlines	1	Center2

Name	Description	Color	Style
C-PKNG-CURB-E	Curbs and gutters	3	Continuous
C-PKNG-EQPM-E	Parking Equipment (I.e. booths, gates, etc.)	4	Continuous
C-PKNG-FIXT-E	Parking lot fixtures (e.g., wheel stops, parking meters)	91	Continuous
C-PKNG-ISLD-E	Parking islands	4	Continuous
C-PKNG-OTLN-E	Parking lots	4	Continuous
C-PKNG-STRP-E	Parking lot striping, handicapped symbols, pavement markings	2	Continuous
C-PROP-LEAS-E	Lease line (exterior / ground lease)	6	Continuous
C-PROP-RWAY-E	Right of ways	7	RTOFWY
C-PVMT-GRVL-E	Pavement pattern - gravel	8	Continuous
C-RAIL-TRAK-E	Railroads	2	Continuous
C-ROAD-OTLN-E	Roads	4	Continuous
C-RUNW-BLST-E	Blast pad markings	1	Continuous
C-RUNW-CNTR-MARK-E	Centerline markings	1	Continuous
C-RUNW-DISP-E	Displaced threshold markings	1	Continuous
C-RUNW-EDGE-E	Airfield runway edges	6	Continuous
C-RUNW-IDEN-E	Runway numbers and letters	2	Continuous
C-RUNW-SIDE-E	Side stripes	4	Continuous
C-SITE-FENC-E	Fences and handrails	6	Continuous
C-SITE-WALK-E	Walks, trails and bicycle paths	2	Continuous
C-TAXI-CNTR-MARK-E	Centerline markings	1	Continuous
C-TAXI-OTLN-E	Taxiway - outlines	4	Continuous
G-ANNO-TEXT-E	Miscellaneous text and callouts with associated leaders	7	Continuous

Name	Description	Color	Style
G-ANNO-TTLB-E	Border and title block line work	7	Continuous
I-FURN-ACCS-E	Accessories (vestibule mats, partitions, draperies, clocks, trash cans, podiums, lamps, etc.)	1	Continuous
I-FURN-FLOR-E	Flooring (carpet, rugs, etc.)	2	Continuous
I-FURN-FREE-E	Free-standing furnishings (desks, beds, tables, dressers, credenzas, case goods)	6	Continuous
I-FURN-SEAT-E	Chairs, sofas, etc.	2	Continuous
M-DETL-EQUP-E	Equipment and fixtures	2	Continuous
M-HVAC-FDFF-E	Floor diffusers, registers, and grilles	162	Continuous
S-BEAM-CNTR-E	Beam centerlines	5	Center2
S-COLS-PRIM-E	Primary columns	6	Continuous
S-WALL-LOAD-E	Load bearing CMU walls	2	Continuous
T-ANNO-TEXT-E	Miscellaneous text and callouts with associated leaders	7	Continuous
V-COMM-EQPM-E	Other communications distribution equipment	21	Continuous

AIA LEVEL/LAYER TABLE

This appendix provides the level/ layer assignment tables for the following disciplines which are grouped based on their major discipline:

The following abbreviations/definitions apply to the layer tables:

Line Style – numeric values 0 – 11 are based on values in Table 3.1
Alphanumeric values refer to custom line style

Line Weight – MicroStation, wt = 1, AutoCAD wt = default for all levels/layers

Color – Color number (1-255)

V – Variable color or line style

Discipline: A - Architectural

ANNO - General Information
AREA - Area
BAGS - Baggage Handling Equipment
CLNG - Ceiling Information
COLS - Columns
DETL - Detail Information
DOOR - Doors
ELEV - Elevations
EQPM - Equipment
FLOR - Floor Information
GLAZ - Windows
LITE - Lights
PROP - Properties Information
ROOF - Roof Information
SECT - Sections
STAT - Demolition (used only in creating Existing Demolition model files)
WALL - Walls

Discipline: A - Architectural

ANNO - General Information

AIA Name	Description	Line Style	Color
A-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	0	V
A-ANNO-GRPH	Miscellaneous graphics	V	V
A-ANNO-KEYN	Reference keynotes with associated leaders	0	V
A-ANNO-LEGN	Legend & Schedule	0	V
A-ANNO-NOTE	General notes and general remarks	0	Y/2
A-ANNO-NPLT	Non-plotting graphic information	V	B/5
A-ANNO-PATT	Miscellaneous patterning and hatching	V	V
A-ANNO-REDL	Redlines	0	R/1
A-ANNO-REFR	Reference files	0	7
A-ANNO-REF1	Reference files	0	7
A-ANNO-REF2	Reference files	0	7
A-ANNO-REF3	Reference files	0	7
A-ANNO-REF4	Reference files	0	7
A-ANNO-REF5	Reference files	0	7
A-ANNO-REF6	Reference files	0	7
A-ANNO-REF7	Reference files	0	7
A-ANNO-REF8	Reference files	0	7
A-ANNO-REF9	Reference files	0	7
A-ANNO-REVS	Revisions	0	C/4
A-ANNO-SYMB	Miscellaneous symbols	V	M/6
A-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	0	V

AREA - Area

AIA Name	Description	Line Style	Color
A-AREA-IDEN	Room numbers, tenant identifications, area calculations	0	Y/2
A-AREA-LINE	Architectural area calculation boundary lines	0	C/4
A-AREA-OCCP	Occupant or employee names	0	Y/2
A-AREA-PATT	Area cross hatching	0	V

BAGS - Baggage Handling Equipment

AIA Name	Description	Line Style	Color
A-BAGS-CART	Cart/Tug	0	V
A-BAGS-CATW	Catwalk	0	V
A-BAGS-CLMD	Claim Device	0	201
A-BAGS-CONV	Baggage Conveyor	0	201
A-BAGS-CRBS	Curbside Baggage Conveyor	0	201
A-BAGS-CTRL	Control	0	V
A-BAGS-DIMM	Dimension	0	V
A-BAGS-DOOR	Doors	0	V
A-BAGS-ELEV	Elevation	0	V
A-BAGS-EQPM	Equipment	0	201
A-BAGS-ICNV	Inbound Baggage Conveyor	0	V
A-BAGS-IOSZ	Inbound Oversized Baggage Conveyor	0	V
A-BAGS-MKUP	Make-Up Device	0	201
A-BAGS-MTCH	Match Lines	0	V
A-BAGS-NOTE	Notes	0	Y/2
A-BAGS-OCNV	Outbound Baggage Conveyor	0	V
A-BAGS-OOSZ	Outbound Oversized Baggage Conveyor	0	V
A-BAGS-RAIL	Guardrail	0	V
A-BAGS-ROWY	Right-of-Way	0	V
A-BAGS-SCDR	Security Door	0	V
A-BAGS-SCNU	Screening Unit	0	V

A-BAGS-TBLK	Title Block	0	V
A-BAGS-TCBC	Ticket Counter Baggage Conveyor	0	V
A-BAGS-TEMP	Temporary	0	V
A-BAGS-TTRY	Tilt-Tray Baggage System	0	V
A-BAGS-VPRT	View Port Layer for Paper Space	0	V
A-BAGS-XFER	Transfer Baggage Conveyor	0	V
A-BAGS-XRAY	X-Ray Unit	0	201

CLNG - Ceiling Information

AIA Name	Description	Line Style	Color
A-CLNG-ACCS	Access panels	0	M/6
A-CLNG-CTLJ	Ceiling control joints	0	Y/2
A-CLNG-GRID	Ceiling grid	0	R/1
A-CLNG-LEVL	Level Changes	0	B/5
A-CLNG-OPEN	Openings, ceiling/roof penetrations (see also A-FLOR-OVHD in Model File Type: Floor Plan)	0	Gr/8
A-CLNG-PATT	Ceiling patterns	0	V
A-CLNG-SUSP	Suspended elements, ceiling mounted specialties (e.g., clocks, fans, etc.)	0	B/5
A-CLNG-TEES	Main tees	0	B/5

COLS - Columns

AIA Name	Description	Line Style	Color
A-COLS-ENCL	Column enclosures/fire protection	0	C/4

DETL - Detail Information

AIA Name	Description	Line Style	Color
A-DETL-GRPH	Graphics, gridlines, non-text items	V	V
A-DETL-INPD	Inch-pound-specific dimensions and notes	0	Y/2
A-DETL-METR	Metric-specific dimensions and notes	0	Y/2

DOOR - Doors

AIA Name	Description	Line Style	Color
A-DOOR-FULL	Full height (to ceiling) door: swing and leaf	0	M/6
A-DOOR-IDEN	Door number and symbol, hardware group, etc.	0	G/3
A-DOOR-PRHT	Partial height door: swing and leaf	0	M/6
A-DOOR-SYMB	Miscellaneous door symbols (e.g., overhead, bifold, pocket, etc.)	0	R/1

ELEV - Elevations

AIA Name	Description	Line Style	Color
A-ELEV-CASE	Wall-mounted casework	0	G/3
A-ELEV-FIXT	Miscellaneous fixtures	0	Y/2
A-ELEV-FNSH	Finishes, woodwork, trim	0	G/3
A-ELEV-GRPH	Elevation line work	V	V
A-ELEV-IDEN	Component identification numbers	0	Y/2
A-ELEV-OTLN	Building outlines	0	M/6
A-ELEV-PATT	Textures and hatch patterns	0	V
A-ELEV-PFIX	Plumbing fixtures	0	M/6
A-ELEV-SIGN	Signage	0	R/1

EQPM - Equipment

AIA Name	Description	Line Style	Color
A-EQPM-ACCS	Equipment access	0	M/6
A-EQPM-BELW	Equipment below Floor	0	C/4
A-EQPM-CLRN	Equipment clearance	0	C/4
A-EQPM-FIXD	Fixed equipment	0	C/4
A-EQPM-IDEN	Equipment identification numbers	0	M/6
A-EQPM-JETB	Airport Jetbridge	0	C/4
A-EQPM-MOVE	Moveable equipment	0	M/6
A-EQPM-NICN	Not in contract equipment	3	M/6
A-EQPM-OVHD	Overhead, ceiling mounted, or suspended equipment	0	M/6

FLOR - Floor Information

AIA Name	Description	Line Style	Color
A-FLOR-CASE	Casework (manufactured cabinets)	0	G/3
A-FLOR-EVTR	Elevator cars and equipment	0	Y/2
A-FLOR-EXPJ	Expansion and Seismic Joints	0	V
A-FLOR-FIXT	Floor mounted/Free standing miscellaneous fixtures	0	G/3
A-FLOR-FURN	Furniture Layers	0	V
A-FLOR-FURN-BOOK	Bookcases	V	V
A-FLOR-FURN-CHAR	Chairs	V	V
A-FLOR-FURN-CUST	Custom made furniture	V	V
A-FLOR-FURN-FILE	File cabinets	V	V
A-FLOR-FURN-HIDN	Surfaces Below	V	V
A-FLOR-FURN-MANF	Case Goods	V	V
A-FLOR-FURN-PNLS	System Panels	V	V
A-FLOR-FURN-SHLF	Shelving	V	V
A-FLOR-FURN-UPPR	Surfaces Overhead	V	V
A-FLOR-FURN-WKSF	System Work Surface	V	V
A-FLOR-HRAL	Stair and balcony handrails, guard rails	0	R/1
A-FLOR-IDEN	Room name, space identification text	0	G/3

A-FLOR-LEVL	Level changes, shafts, ramps, pits, breaks in construction, and depressions	0	M/6
A-FLOR-NUMB	Room/space identification number and symbol	0	G/3
A-FLOR-OTLN	Floor outline/perimeter/building footprint	0	M/6
A-FLOR-OTLN-RPRM	Room perimeter shape (Interior walls)	0	Y/2
A-FLOR-OVHD	Overhead items (skylights, overhangs etc.)	2	Gr/8
A-FLOR-PATT	Paving, tile, carpet patterns	0	V
A-FLOR-RAIS	Access (raised) flooring	0	G/3
A-FLOR-SIGN	Signage	0	R/1
A-FLOR-SPCL	Architectural specialties (e.g., toilet room accessories, display cases)	0	G/3
A-FLOR-STRS	Stair risers/treads, escalators, ladders	0	Y/2
A-FLOR-TPTN	Toilet partitions	0	R/1
A-FLOR-WDWK	Architectural woodwork (field built cabinets and counters)	0	G/3

GLAZ - Windows

AIA Name	Description	Line Style	Color
A-GLAZ-FULL	Full height glazed walls and partitions (see A-WALL-CWMG for curtain walls)	0	R/1
A-GLAZ-IDEN	Window number and symbol	0	G/3
A-GLAZ-PRHT	Windows and partial height glazed partitions	0	R/1
A-GLAZ-SILL	Window sills	0	B/5

LITE - Lights

AIA Name	Description	Line Style	Color
A-LITE-CLNG	Specialty ceiling lights not shown on Electrical Lighting Plan	0	C/4

PROP - Properties Information

AIA Name	Description	Line Style	Color
A-PROP-LEAS	Lease line (interior)	0	M/6

ROOF - Roof Information

AIA Name	Description	Line Style	Color
A-ROOF-CRTS	Crickets flow arrows flow info	0	R/1
A-ROOF-EXPJ	Expansion joints	0	B/5
A-ROOF-GUTR	Roof internal gutters	0	Gr/8
A-ROOF-HRAL	Stair handrails, nosings, guard rails	0	B/5
A-ROOF-LEVL	Level changes	0	B/5
A-ROOF-OPEN	Roof Open Below ('X' line symbol)	0	V
A-ROOF-OTLN	Roof perimeter/edge, roof geometry	0	M/6
A-ROOF-PATT	Roof surface patterns, hatching	0	V
A-ROOF-RFDR	Roof drains	0	R/1
A-ROOF-SPCL	Roof specialties, accessories, access hatches, dormers	0	G/3
A-ROOF-STRS	Stair risers/treads, ladders	0	B/5
A-ROOF-WALK	Roof walkways	0	G/3
A-ROOF-WALL	Parapet walls and wall caps	0	Y/2

SECT - Sections

AIA Name	Description	Line Style	Color
A-SECT-IDEN	Component identification numbers	0	Y/2
A-SECT-MBND	Material beyond section cut	0	B/5
A-SECT-MCUT	Material cut by section	V	V
A-SECT-PATT	Textures and hatch patterns	0	V

STAT - Demolition (used only in creating Existing Demolition model files)

AIA Name	Description	Line Style	Color
A-STAT-DEMO	Demolition	2	M/6
A-STAT-DEMO-PHS1	Demolition - phase 1	0	203
A-STAT-DEMO-PHS2	Demolition - phase 2	0	83
A-STAT-DEMO-PHS3	Demolition - phase 3	0	163
A-STAT-EXST	Existing to remain	0	G/3
A-STAT-FUTR	Future work	7	Y/2
A-STAT-MOVE	Items to be moved	6	M/6
A-STAT-NEWW	New work	0	C/4
A-STAT-NICN	Not in contract	3	Gr/8
A-STAT-PHS#	Phase numbers (#=1-9)	0	Y/2
A-STAT-RELO	Relocated items	2	B/5
A-STAT-TEMP	Temporary work	4	C/4

WALL - Walls

AIA Name	Description	Line Style	Color
A-WALL-CAVI	Cavity wall lines	0	R/1
A-WALL-CNTR	Wall centerlines	7	B/5
A-WALL-CWMG	Curtain wall mullions and glass	0	R/1
A-WALL-FIRE	Fire wall designators (patterning)	0	Y/2
A-WALL-FULL-EXTR	Exterior full height walls	0	Y/2
A-WALL-FULL-INTR	Interior full height walls	0	G/3
A-WALL-HEAD	Door and window headers (appear on Reflected Ceiling Plan)	0	R/1
A-WALL-IDEN	Wall identification/type text or tags	0	G/3
A-WALL-JAMB	Door and window jambs (do not appear on Reflected Ceiling Plan)	0	R/1
A-WALL-MOVE	Moveable walls/partitions	0	B/5

A-WALL-PATT	Wall insulation, hatching, and fill	0	V
A-WALL-PRHT	Partial height walls (do not appear on Reflected Ceiling Plan)	0	R/1
A-WALL-SPCL	Wall-hung/attached specialties (e.g., fixtures, grab bars (incl. handicap), telephone booths)	0	R/1

Discipline: B – Geotechnical

ANNO - General Information
BORE - Borings/Perc Holes

Discipline: B - Geotechnical

ANNO - General Information

AIA Name	Description	Line Style	Color
B-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	0	V
B-ANNO-KEYN	Reference keynotes with associated leaders	0	V
B-ANNO-LEGN	Legend & Schedule	0	V
B-ANNO-NOTE	General notes and general remarks	0	Y/2
B-ANNO-NPLT	Non-plotting graphic information	V	B/5
B-ANNO-PATT	Miscellaneous patterning and hatching	0	V
B-ANNO-REDL	Redlines	0	R/1
B-ANNO-REFR	Reference files	NA	NA
B-ANNO-REVS	Revisions	0	C/4
B-ANNO-SYMB	Miscellaneous symbols	V	M/6
B-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	0	V

BORE - Borings/Perc Holes

AIA Name	Description	Line Style	Color
B-BORE-ELEV	Boring elevations	0	G/3
B-BORE-FDTA	Field data	0	G/3
B-BORE-HOLE	Bore/perc hole number	0	Y/2
B-BORE-IDEN	Component identification numbers	0	Y/2
B-BORE-LDTA	Laboratory data	0	R/1
B-BORE-PATT	Soil/rock patterns	0	V

Discipline: C – Civil

AIRF - Airfield
AIRS - Airspace
ALGN - Alignments
ANNO - General Information
APRN - Apron
BLDG - Buildings and Structures
BORW - Borrow Areas
CHAN - Channels (waterway)
DETL - Detail Information
DOMW - Domestic Water
DRED - Dredging
ELEV - Elevations
FUEL - Liquid Fuel
GRAD - Grade Linework
GRID - Grid Lines
HELI - Heliports
INDW - Industrial Waste Water
JOIN - Joints
NGAS - Natural Gas
OVRN - Overrun Areas
PADS - Pads (Arm/Disarm, Calibrations, etc.)
PKNG - Parking Lots and Minor Roads
PROF - Profiles
PROP - Property
PVMT - Pavement
RAIL - Railroads
ROAD - Major Roads
RUNW - Runway
SECT - Sections
SITE - Site Improvement
SSWR - Sanitary Sewer
STAT - Demolition (used only in creating Existing Demolition model files)
STRC - Structures
STRM - Storm Drainage
SURV - Survey Lines
TAXI - Taxiways
TOPO - Topography
TRAF - Traffic

Discipline: C - Civil

AIRF - Airfield

AIA Name	Description	Line Style	Color
C-AIRF-AHOA	Aircraft / Helicopter Operations Area	3	84
C-AIRF-AIDC	Airfield Navigational Aid - Critical Area	0	Y/2
C-AIRF-AIDS	Airfield Navigational Aid - Site	0	Y/2
C-AIRF-AIDS-COMM	Communications airfield navigational aides	0	Y/2
C-AIRF-AIDS-GPS_	GPS airfield navigational aides	0	Y/2
C-AIRF-AIDS-ILS_	Airfield Instrument Landing System	0	Y/2
C-AIRF-AIDS-MCWV	Microwave airfield navigational aides	0	Y/2
C-AIRF-AIDS-OTHR	Other airfield navigational aides	0	Y/2
C-AIRF-AIDS-RADI	Radio airfield navigational aides	0	Y/2
C-AIRF-AIDS-RADR	Radar airfield navigational aides	0	Y/2
C-AIRF-AIDS-RMTE	Remote airfield navigational aides	0	Y/2
C-AIRF-AIDS-WTHR	Weather airfield navigational aides	0	Y/2
C-AIRF-DSRF-BLDR	Building Restriction Line	0	G/3
C-AIRF-DSRF-KEYH	Key holes	0	G/3
C-AIRF-DSRF-NMOV	Aircraft Non-Movement Area	0	G/3
C-AIRF-DSRF-OFA_	Object Free Area	0	G/3
C-AIRF-DSRF-OFZ_	Object Free Zone	0	G/3
C-AIRF-DSRF-POFA	Precision Object Free Area	0	G/3
C-AIRF-DSRF-RPZ_	Runway Protection Zone	0	G/3
C-AIRF-DSRF-RSA_	Runway Safety Area	0	G/3
C-AIRF-OBST-LINE	Airspace obstructions - Line	0	G/3
C-AIRF-OBST-POLY	Airspace obstructions - Polygon	0	G/3
C-AIRF-OBST-PPNT	Airspace obstructions - Point	0	G/3
C-AIRF-PROP	Airport property	3	84
C-AIRF-SIDA	Security Identification Display Area	3	84
C-AIRF-TRKL	Flight Track Line	0	Y/2
C-AIRF-TRKP	Flight Track Point	0	Y/2

AIRS - Airspace

AIA Name	Description	Line Style	Color
C-AIRS-ISOC	Approach surface isoclines	0	Y/2
C-AIRS-OTHR	Other airspace surfaces	0	G/3
C-AIRS-PART-APRC	FAR Part 77 Approach Surface	0	G/3
C-AIRS-PART-CONL	FAR Part 77 Conical Surface	0	G/3
C-AIRS-PART-HORZ	FAR Part 77 Horizontal Surface	0	G/3
C-AIRS-PART-PRIM	FAR Part 77 Primary Surface	0	G/3
C-AIRS-PART-TRNS	FAR Part 77 Transitional Surface	0	G/3
C-AIRS-TERP	TERPS surfaces	0	G/3

ALGN - Alignments

AIA Name	Description	Line Style	Color
C-ALGN-DATA	Alignment coordinates and curve data	0	G/3
C-ALGN-LINE	Alignments	4	Y/2

ANNO - General Information

AIA Name	Description	Line Style	Color
C-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	0	V
C-ANNO-KEYN	Reference keynotes with associated leaders	0	V
C-ANNO-LEGN	Legend & Schedule	0	V
C-ANNO-NOTE	General notes and general remarks	0	Y/2
C-ANNO-NPLT	Non-plotting graphic information	V	B/5
C-ANNO-PATT	Miscellaneous patterning and hatching	0	V
C-ANNO-REDL	Redlines	0	R/1
C-ANNO-REFR	Reference files	NA	NA
C-ANNO-REVS	Revisions	0	C/4
C-ANNO-SYMB	Miscellaneous symbols	V	M/6

C-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	0	V

APRN - Apron

AIA Name	Description	Line Style	Color
C-APRN-ACPK	Aircraft gate/stand parking area	0	C/4
C-APRN-ANOM	Aircraft non-movement area	0	C/4
C-APRN-CNTR	Centerlines	7	R/1
C-APRN-CNTR-IDEN	Centerline annotation	0	Y/2
C-APRN-DEIC	Aircraft Deicing Area	0	C/4
C-APRN-GRND	Grounding points	0	Y/2
C-APRN-HOLD	Holding position markings	0	R/1
C-APRN-IDEN	Annotation	0	Y/2
C-APRN-JOIN	Apron joints	0	Y/2
C-APRN-MOOR	Mooring points	0	Y/2
C-APRN-MRKG	Apron markings	0	C/4
C-APRN-OTLN	Airfield apron - outlines	0	C/4
C-APRN-SECU	Security zone markings	0	R/1
C-APRN-SHLD	Shoulder stripes	0	Y/2

BLDG - Buildings and Structures

AIA Name	Description	Line Style	Color
C-BLDG-IDEN	Building and other structure annotation	0	Y/2
C-BLDG-OTLN	Buildings and other structures	0	W/7
C-BLDG-PATT	Building hatching and patterns	0	V

BORW - Borrow Areas

AIA Name	Description	Line Style	Color
C-BORW-IDEN	Borrow/Spoil area annotation	0	Y/2
C-BORW-LINE	Borrow/Spoil area	2	Y/2

CHAN - Channels (waterway)

AIA Name	Description	Line Style	Color
C-CHAN-AIDS	Navigation aids and text	0	Y/2
C-CHAN-CNTR	Channel centerline and survey report lines	4	B/5
C-CHAN-CNTR-IDEN	Channel centerline and survey report lines - annotation	0	B/5
C-CHAN-DACL	De-authorized channel limits, anchorages, etc.	0	G/3
C-CHAN-DACL-IDEN	De-authorized channel limits, anchorages, etc. - annotation	0	G/3
C-CHAN-IDEN	Channel limits, anchorages, turning basins, disposal areas, etc. - annotation	0	M/6
C-CHAN-LIMT	Channel limits, anchorages, turning basins, disposal areas, etc.	0	M/6
C-CHAN-TURN	Turning points	0	Y/2

DETL - Detail Information

AIA Name	Description	Line Style	Color
C-DETL-CONC	Concrete	0	M/6
C-DETL-COVR	Covers and fittings	0	M/6
C-DETL-ERTH	Earth	0	G/3
C-DETL-FAST	Fasteners	0	R/1
C-DETL-FENC	Fencing	0	M/6
C-DETL-FILL	Fill	0	B/5
C-DETL-GENF	General features (miscellaneous items)	0	V
C-DETL-GRPH	Graphics, gridlines, non-text items	V	V
C-DETL-INPD	Inch-pound-specific dimensions and notes	0	R/1

C-DETL-METR	Metric-specific dimensions and notes	0	G/3
C-DETL-PAVE	Pavements	0	Y/2
C-DETL-PIPE	Piping	0	M/6
C-DETL-SPCF	Special features	0	Y/2
C-DETL-STRC	Structural metal	0	M/6
C-DETL-TANK	Tanks	0	Y/2
C-DETL-VLVE	Valves and fittings	0	Y/2

DOMW - Domestic Water

AIA Name	Description	Line Style	Color
C-DOMW-ABND	Abandoned piping	2	M/6
C-DOMW-DEVC	Connectors, faucets, reducers, regulators, vents, intake points, tanks, taps, backflow preventers, and valves	0	M/6
C-DOMW-FIRE	Fire lines	FIRE	R/1
C-DOMW-FTTG	Caps, cleanouts, crosses, and tees	0	M/6
C-DOMW-HYDR	Hydrants	0	R/1
C-DOMW-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
C-DOMW-MAIN	Main domestic water piping	WATERL	M/6
C-DOMW-METR	Meters	0	G/3
C-DOMW-NHYD	Non-potable hydrants/flushing hydrants	0	R/1
C-DOMW-NPOT	Non-potable water piping	NONPOT	M/6
C-DOMW-PITS-IDEN	Identifier tags, symbol modifier, and text	0	R/1
C-DOMW-PUMP	Booster pump stations	0	M/6
C-DOMW-REDC	Pressure reducing stations	0	M/6
C-DOMW-RSVR	Reservoirs	0	R/1
C-DOMW-RSVR-IDEN	Identifier tags, symbol modifier, and text	0	R/1
C-DOMW-SERV	Domestic water service piping	0	M/6
C-DOMW-SIGN	Surface markers/signs	0	R/1
C-DOMW-STNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
C-DOMW-TANK	Water storage tanks	0	R/1
C-DOMW-VENT	Vent pits	0	G/3
C-DOMW-VLVE	Valve pits/vaults	0	G/3

C-DOMW-WELL	Water well houses	0	R/1

DRED - Dredging

AIA Name	Description	Line Style	Color
C-DRED-LIMT	Dredge limit lines	0	C/4
C-DRED-OHWM	Ordinary high water marks	0	Y/2

ELEV - Elevations

AIA Name	Description	Line Style	Color
C-ELEV-FIXT	Miscellaneous fixtures	0	Y/2
C-ELEV-IDEN	Component identification numbers	0	Y/2
C-ELEV-OTLN	Building outlines	0	M/6
C-ELEV-PATT	Textures and hatch patterns	0	V
C-ELEV-SIGN	Signage	0	R/1

FUEL - Liquid Fuel

AIA Name	Description	Line Style	Color
C-FUEL-ABND	Abandoned piping	2	M/6
C-FUEL-DEFL	Defueling piping	0	M/6
C-FUEL-DEVC	Air eliminators, filter strainers, hydrant fill points, line vents, markers, oil/water separators, reducers, regulators, and valves	0	M/6
C-FUEL-FLOW	Flow direction arrows	0	M/6
C-FUEL-FTTG	Caps, crosses, and tees	0	M/6
C-FUEL-HYDR	Hydrant control pits	0	G/3
C-FUEL-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
C-FUEL-JBOX	Junction boxes, manholes, handholes, test boxes	0	R/1
C-FUEL-MAIN	Main fuel piping	LIQPET	M/6
C-FUEL-METR	Meters	0	G/3

C-FUEL-PITS-IDEN	Identifier tags, symbol modifier, and text	0	R/1
C-FUEL-PUMP	Booster pump stations	0	M/6
C-FUEL-SERV	Service piping	0	M/6
C-FUEL-STNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
C-FUEL-TANK	Fuel tanks	0	G/3
C-FUEL-TRCH	Fuel line trench	0	G/3
C-FUEL-VENT	Vent pits	0	G/3
C-FUEL-VLVE	Valve pits	0	G/3

GRAD - Grade Linework

AIA Name	Description	Line Style	Color
C-GRAD-EXST	Existing grade, ground line	3	M/6
C-GRAD-FNSH	Finished grade	0	C/4

GRID - Grid Lines

AIA Name	Description	Line Style	Color
C-GRID-FRAM	Frame	0	C/4
C-GRID-MAJR	Major grid lines	0	R/1
C-GRID-MINR	Minor grid lines	1	Gr/8
C-GRID-TEXT	Border text, annotation	0	Y/2

HELI - Heliports

AIA Name	Description	Line Style	Color
C-HELI-BLST	Blast pad and stopway markings	0	R/1
C-HELI-CNTR	Centerline	0	R/1
C-HELI-CNTR-MARK	Centerline markings	0	R/1
C-HELI-DISP	Displaced threshold markings	0	R/1
C-HELI-DIST	Fixed distance markings	0	R/1
C-HELI-FATO	Helipad FATO	0	R/1
C-HELI-IDEN	Heliport numbers and letters	0	Y/2
C-HELI-SHLD	Shoulder markings	0	M/6
C-HELI-SIDE	Side stripes	0	C/4
C-HELI-TDZM	Touchdown zone markers	0	M/6
C-HELI-THRS	Threshold markers	0	M/6
C-HELI-TLOF	Helipad take off and landing area	0	R/1

INDW - Industrial Waste Water

AIA Name	Description	Line Style	Color
C-INDW-ABND	Abandoned piping	2	M/6
C-INDW-DEVC	Grit chambers, meters, flumes, neutralizers, oil/water separators, ejectors, tanks, and valves	0	M/6
C-INDW-FLOW	Flow direction arrows	0	M/6
C-INDW-FTTG	Caps and cleanouts	0	M/6
C-INDW-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
C-INDW-JBOX	Junction boxes and manholes	0	R/1
C-INDW-LAGN	Lagoons	0	M/6
C-INDW-LIFT	Lift stations	0	M/6
C-INDW-MAIN	Main industrial waste water piping	IWASTE	M/6
C-INDW-PLNT	Treatment plants	0	M/6
C-INDW-RSVR-IDEN	Identifier tags, symbol modifier, and text	0	M/6
C-INDW-SERV	Industrial waste water service piping	0	R/1
C-INDW-SIGN	Surface markers/signs	0	R/1

C-INDW-STNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2

JOIN - Joints

AIA Name	Description	Line Style	Color
C-JOIN-CNSL	Construction joints - longitudinal	0	M/6
C-JOIN-CNST	Construction joints - transverse	0	M/6
C-JOIN-CNTL	Contraction joints - longitudinal	0	Y/2
C-JOIN-CNTT	Contraction joints - transverse	0	Y/2
C-JOIN-EDGE	Thickened edges	0	C/4
C-JOIN-EXPN	Expansion joints	0	12

NGAS - Natural Gas

AIA Name	Description	Line Style	Color
C-NGAS-ABND	Abandoned piping	2	M/6
C-NGAS-DEVC	Hydrant fill points, lights, vents, markers, rectifiers, reducers, regulators, sources, tanks, drip pots, taps, and valves	0	M/6
C-NGAS-DEVC-IDEN	Identifier tags, symbol modifier, and text	0	M/6
C-NGAS-FLOW	Flow direction arrows	0	M/6
C-NGAS-FTTG	Caps, crosses, and tees	0	M/6
C-NGAS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
C-NGAS-MAIN	Main natural gas piping	NTGASN	M/6
C-NGAS-METR	Meters	0	G/3
C-NGAS-PITS-IDEN	Identifier tags, symbol modifier, and text	0	R/1
C-NGAS-PUMP	Compressor stations	0	M/6
C-NGAS-REDC	Reducing stations	0	M/6
C-NGAS-SERV	Service piping	0	R/1
C-NGAS-SIGN	Surface markers/signs	0	R/1
C-NGAS-STNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
C-NGAS-VENT	Vent pits	0	G/3
C-NGAS-VLVE	Valve pits/boxes	0	G/3

OVRN - Overrun Areas

AIA Name	Description	Line Style	Color
C-OVRN-CNTR	Centerlines	7	R/1
C-OVRN-CNTR-IDEN	Centerline annotation	0	Y/2
C-OVRN-IDEN	Airfield overrun area - annotation	0	Y/2
C-OVRN-JOIN	Airfield overrun joints	0	Y/2
C-OVRN-OTLN	Airfield overrun area - outlines	0	C/4
C-OVRN-SHLD	Shoulder markings	0	C/4

PADS - Pads (Arm/Disarm, Calibrations, etc.)

AIA Name	Description	Line Style	Color
C-PADS-CNTR	Centerlines	7	R/1
C-PADS-CNTR-IDEN	Centerline annotation	0	Y/2
C-PADS-IDEN	Pads - annotation	0	Y/2
C-PADS-OTLN	Pad - outlines	0	C/4
C-PADS-SHLD	Shoulders with annotation	0	Y/2

PKNG - Parking Lots and Minor Roads

AIA Name	Description	Line Style	Color
C-PKNG-CARS	Graphic illustration of cars	0	Y/2
C-PKNG-CNTR	Centerlines	7	R/1
C-PKNG-CNTR-IDEN	Centerline annotation	0	M/6
C-PKNG-CURB	Curbs and gutters	0	G/3
C-PKNG-DRAN	Parking lot drainage slope indications	0	R/1
C-PKNG-EQPM	Parking Equipment (I.e. booths, gates, etc.)	0	C/4
C-PKNG-FIXT	Parking lot fixtures (e.g., wheel stops, parking meters)	0	91
C-PKNG-IDEN	Parking lot, minor road, and curb annotation	0	M/6

C-PKNG-ISLD	Parking islands	0	C/4
C-PKNG-OTLN	Parking lots	0	C/4
C-PKNG-STRP	Parking lot striping, handicapped symbols, pavement markings	0	Y/2

PROF - Profiles

AIA Name	Description	Line Style	Color
C-PROF-CUID	Existing grade and grading cuts - annotation	0	R/1
C-PROF-FILL	New work, grading fills	0	G/3
C-PROF-INLT	Curb and surface inlets, catch basins	0	G/3
C-PROF-MHOL	Manholes	0	R/1
C-PROF-PIPE	Piping	0	M/6
C-PROF-ROAD	Roads	0	Y/2

PROP - Property

AIA Name	Description	Line Style	Color
C-PROP-CONS	Construction limits/controls, staging area	11	W/7
C-PROP-ESMT	Easements	3	84
C-PROP-IDEN	Property annotation	0	M/6
C-PROP-LEAS	Lease line (exterior / ground lease)	0	M/6
C-PROP-RWAY	Right of ways	RTOFWY	W/7

PVMT - Pavement

AIA Name	Description	Line Style	Color
C-PVMT-ASPH	Pavement pattern - asphalt	0	Gr/8
C-PVMT-CONC	Pavement pattern - concrete	0	Gr/8
C-PVMT-GROV	Pavement Grooving	0	Gr/8
C-PVMT-GRVL	Pavement pattern - gravel	0	Gr/8
C-PVMT-IDEN	Road, parking lot, railroad, airfield pavement annotation	0	Y/2
C-PVMT-MRKG	Pavement markings	0	Y/2
C-PVMT-MRKG-WHIT	Roadway markings (white)	0	Y/2
C-PVMT-MRKG-YELO	Roadway markings (yellow)	0	Y/2
C-PVMT-PATT	Joint patterns, text and dimensions	0	V
C-PVMT-ROAD	Roads, parking lots, railroads, airfield pavements	0, RAILRD	Y/2
C-PVMT-SIGN	Other signs	0	Y/2

RAIL - Railroads

AIA Name	Description	Line Style	Color
C-RAIL-CNTR	Centerlines	7	R/1
C-RAIL-CNTR-IDEN	Centerline annotation	0	M/6
C-RAIL-EQPM	Railroad equipment (e.g., gates, signals)	0	91
C-RAIL-IDEN	Railroad - annotation	0	M/6
C-RAIL-TRAK	Railroads	0	Y/2
C-RAIL-YARD	Railroad Yard	0	Y/2

ROAD - Major Roads

AIA Name	Description	Line Style	Color
C-ROAD-CNTR	Centerlines	7	R/1
C-ROAD-CNTR-IDEN	Centerline annotation	0	M/6
C-ROAD-CURB	Curbs	0	M/6

C-ROAD-FCRB	Face of curb	0	R/1
C-ROAD-GRAL	Guardrails	0	M/6
C-ROAD-IDEN	Road, curb, and guardrail annotation	0	M/6
C-ROAD-LGTR	Lip of gutter	0	R/1
C-ROAD-OTLN	Roads	0	C/4

RUNW - Runway

AIA Name	Description	Line Style	Color
C-RUNW-ARST	Runway Arresting Gear Location	0	R/1
C-RUNW-BLST	Blast pad markings	0	R/1
C-RUNW-CNTR	Centerline	0	R/1
C-RUNW-CNTR-MARK	Centerline markings	0	R/1
C-RUNW-DISP	Displaced threshold markings	0	R/1
C-RUNW-DIST	Fixed distance markings	0	R/1
C-RUNW-EDGE	Airfield runway edges	0	M/6
C-RUNW-IDEN	Runway numbers and letters	0	Y/2
C-RUNW-INTS	Runway intersection	0	M/6
C-RUNW-LAHS	Runway land and hold short area	0	M/6
C-RUNW-SAFT	Runway Safety Area	0	M/6
C-RUNW-SHLD	Shoulder markings	0	M/6
C-RUNW-SIDE	Side stripes	0	C/4
C-RUNW-STWY	Runway stopway markings	0	R/1
C-RUNW-TDZM	Touchdown zone markers	0	M/6
C-RUNW-THRS	Threshold markers	0	M/6

SECT - Sections

AIA Name	Description	Line Style	Color
C-SECT-IDEN	Component identification numbers	0	Y/2
C-SECT-MBND	Material beyond section cut	0	B/5
C-SECT-MCUT	Material cut by section	0	C/4
C-SECT-PATT	Textures and hatch patterns	0	V

SITE - Site Improvement

AIA Name	Description	Line Style	Color
C-SITE-EROS	Riprap, revetments/stone protection, breakwaters, dikes, jetties, and drains	0	R/1
C-SITE-EROS-IDEN	Riprap, revetment/stone protection, breakwater, dike, jetty, and drain annotation	0	12
C-SITE-FENC	Fences and handrails	0	M/6
C-SITE-FENC-IDEN	Fence, handrail, ramp, sign, and trail annotation	0	M/6
C-SITE-IDEN	Site improvement annotation	0	M/6
C-SITE-IMPR	Site improvements (channel or levee features)	0	C/4
C-SITE-STRC	Structures (bridges, sheds, foundation pads, footings, etc.)	0	22
C-SITE-STRS	Stairs and ramps	0	M/6
C-SITE-WALK	Walks, trails and bicycle paths	V	Y/2

SSWR - Sanitary Sewer

AIA Name	Description	Line Style	Color
C-SSWR-ABND	Abandoned piping	2	M/6
C-SSWR-DEVC	Grease traps, grit chambers, flumes, neutralizers, oil/water separators, ejectors, and valves	0	M/6
C-SSWR-DEVC-IDEN	Identifier tags, symbol modifier, and text	0	M/6
C-SSWR-FILT	Filtration beds	0	G/3
C-SSWR-FILT-IDEN	Identifier tags, symbol modifier, and text	0	G/3
C-SSWR-FLOW	Flow direction arrows	0	M/6

C-SSWR-FTTG	Caps and cleanouts	0	M/6
C-SSWR-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
C-SSWR-JBOX	Junction boxes and manholes	0	R/1
C-SSWR-JBOX-IDEN	Identifier tags, symbol modifier, and text	0	R/1
C-SSWR-LAGN	Lagoons	0	G/3
C-SSWR-LEAC	Leach field	0	G/3
C-SSWR-MAIN	Sanitary sewer piping	SSWAF	M/6
C-SSWR-NITF	Nitrification drain fields	0	G/3
C-SSWR-PLNT	Treatment plants	0	M/6
C-SSWR-PUMP	Booster pump stations	0	M/6
C-SSWR-RSVR-IDEN	Identifier tags, symbol modifier, and text	0	G/3
C-SSWR-SERV	Sanitary sewer service piping	0	R/1
C-SSWR-SIGN	Surface markers/signs	0	R/1
C-SSWR-STNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
C-SSWR-TANK	Septic tanks	0	G/3

STAT - Demolition (used only in creating Existing Demolition model files)

AIA Name	Description	Line Style	Color
C-STAT-DEMO	Demolition	2	M/6
C-STAT-DEMO-PHS1	Demolition - phase 1	0	203
C-STAT-DEMO-PHS2	Demolition - phase 2	0	83
C-STAT-DEMO-PHS3	Demolition - phase 3	0	163
C-STAT-EXST	Existing to remain	0	G/3
C-STAT-FUTR	Future work	7	Y/2
C-STAT-MOVE	Items to be moved	6	M/6
C-STAT-NEWW	New work	0	C/4
C-STAT-NICN	Not in contract	3	Gr/8
C-STAT-PHS#	Phase numbers (#=1-9)	0	Y/2
C-STAT-RELO	Relocated items	2	B/5
C-STAT-TEMP	Temporary work	4	C/4

STRC - Structures

AIA Name	Description	Line Style	Color
C-STRC-IDEN	Bridges, piers, breakwaters, docks, floats, etc. - annotation	0	Y/2
C-STRC-OTLN	Bridges, piers, breakwaters, docks, floats, etc. - outlines	0	C/4
C-STRC-TOWR	Tower	0	C/4

STRM - Storm Drainage

AIA Name	Description	Line Style	Color
C-STRM-ABND	Abandoned piping	2	M/6
C-STRM-AFFF	AFFF lagoon/detention pond	0	G/3
C-STRM-CHUT	Chutes and concrete erosion control structures	0	R/1
C-STRM-CULV	Culverts	CULVRT	G/3
C-STRM-DEVC	Downspouts, flumes, oil/water separators, and flap gates	0	M/6
C-STRM-DRAN-IDEN	Identifier tags, symbol modifier, and text	0	G/3
C-STRM-EROS	Erosion control (riprap)	0	B/5
C-STRM-FLOW	Flow direction arrows	0	M/6
C-STRM-FMON	Flow monitoring station	0	M/6
C-STRM-FTTG	Caps and cleanouts	0	M/6
C-STRM-HDWL	Headwalls and endwalls	0	W/7
C-STRM-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
C-STRM-INLT	Inlets (curb, surface, and catch basins)	0	G/3
C-STRM-LAGN	Lagoons, ponds, watersheds, and basins	0	G/3
C-STRM-MAIN	Storm sewer piping	STRAF	M/6
C-STRM-MHOL	Manholes	0	R/1
C-STRM-PUMP	Pump stations	0	M/6
C-STRM-ROOF	Roof drain line	0	G/3
C-STRM-RSVR-IDEN	Identifier tags, symbol modifier, and text	0	G/3
C-STRM-SERV	Storm sewer service piping	0	R/1
C-STRM-SIGN	Surface markers/signs	0	R/1
C-STRM-STNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2

C-STRM-STRC	Storm drainage, headwalls, inlets, manholes, culverts, and drainage structures	0, STRAF	C/4
C-STRM-SUBS	Subsurface drain piping	0	G/3

SURV - Survey Lines

AIA Name	Description	Line Style	Color
C-SURV-DATA	Survey data (benchmarks and horizontal control points or monuments)	0	M/6
C-SURV-IDEN	Survey, baseline, and control line annotation	0	M/6
C-SURV-LINE	Survey, baseline, and control lines	2	C/4

TAXI - Taxiways

AIA Name	Description	Line Style	Color
C-TAXI-CNTR	Taxiway centerline	0	R/1
C-TAXI-CNTR-IDEN	Centerline annotation	0	Y/2
C-TAXI-CNTR-MARK	Centerline markings	0	R/1
C-TAXI-EDGE	Edge markings	0	C/4
C-TAXI-HOLD	Holding lines	0	Y/2
C-TAXI-IDEN	Annotation	0	Y/2
C-TAXI-JOIN	Taxiway joints	0	Y/2
C-TAXI-OTLN	Taxiway - outlines	0	C/4
C-TAXI-SHLD	Shoulder transverse stripes	0	Y/2

TOPO - Topography

AIA Name	Description	Line Style	Color
C-TOPO-AUCO	Noise Complaint	0	M/6
C-TOPO-AUST	Noise Monitoring Station	0	M/6
C-TOPO-AUZN	Noise Contour/Zone	0	M/6
C-TOPO-BKLN	Breaklines	4	W/7
C-TOPO-BORE	Boring locations	0	M/6
C-TOPO-COOR	Coordinate grid ticks and text	0	122
C-TOPO-DTMP	DTM points	0	M/6
C-TOPO-DTMT	DTM triangles	0	22
C-TOPO-FLZN	Flood Zone	0	M/6
C-TOPO-MAJR	Major contours	0	Y/2
C-TOPO-MAJR-IDEN	Major contours - annotation	0	Y/2
C-TOPO-MINR	Minor contours	0	G/3
C-TOPO-MINR-IDEN	Minor contours - annotation	0	G/3
C-TOPO-RTWL	Retaining wall	0	W/7
C-TOPO-SHOR	Shorelines, land features, and references	0	C/4
C-TOPO-SLOP	Cut/fill slopes	0	Y/2
C-TOPO-SLOP-FILL	Cut/fill slopes	0	Y/2
C-TOPO-SLOP-IDEN	Cut/fill slope, top/toe slope annotation	0	Y/2
C-TOPO-SLOP-TOPT	Top/toe slopes	0	M/6
C-TOPO-SLTP	Top/toe slopes	0	M/6
C-TOPO-SOUN	Soundings	0	150
C-TOPO-SPOT	Spot elevations	0	Y/2

TRAF - Traffic

AIA Name	Description	Line Style	Color
C-TRAF-IDEN	Airfield traffic area annotation	0	Y/2
C-TRAF-TYPA	Type A traffic area	4	C/4
C-TRAF-TYPB	Type B traffic area	6	C/4
C-TRAF-TYPC	Type C traffic area	10	C/4

Discipline: E – Electrical

AIRF - Airfield
ALRM - Fire Alarm / Detection Equipment
ANNO - General Information
BCNS - Beacons
BELL - Bell System
CABL - Cable System
CATH - Cathodic Protection System
CATV - Cable TV System
CCTV - Cable TV System
CIRC - Circuits
CLOK - Clock System
COMM - Communications
DETL - Detail Information
DIAG - Diagram Information
DICT - Central Dictation System
DISC - Other Discipline Information
DUCT - Underground Duct Bank (to be used when multiple systems are in one ductbank system)
ELEC - Electrical Support Equipment
EMCS - Energy Monitoring Control Systems
EMER - Emergency Equipment
FLOR - Floor Information
GRND - Ground System
INTC - Intercom/Public Address System
LITE - Lights
LTNG - Lightning Protection System
NURS - Nurse Call / Paging System
POLE - Utility Poles
POWR - Power
PRIM - Primary Electrical Cables
SCND - Secondary Electrical Cables
SECD - Secondary Electrical Cables
SERT - Security Systems
SOUN - Sound Systems
SPCL - Special Systems
SPEC - Special Systems
STAT - Demolition (used only in creating Existing Demolition model files)
TRAN - Transformers
TVAN - TV Antenna System

Discipline: E - Electrical

AIRF - Airfield

AIA Name	Description	Line Style	Color
E-AIRF-DEVC	Capacitors, voltage regulators, motors, buses, generators, meters, grounds, and markers	0	23
E-AIRF-DUCT	Ductbanks	EUDUCN	83
E-AIRF-JBOX	Junction boxes, pull boxes, manholes, handholes, pedestals, splices	0	23
E-AIRF-VALT	Airfield lighting vaults	0	G/3

ALRM - Fire Alarm / Detection Equipment

AIA Name	Description	Line Style	Color
E-ALRM-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-ALRM-SYMB	Miscellaneous alarm system symbols	0	203

ANNO - General Information

AIA Name	Description	Line Style	Color
E-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	0	V
E-ANNO-KEYN	Reference keynotes with associated leaders	0	V
E-ANNO-LEGN	Legend & Schedule	0	V
E-ANNO-NOTE	General notes and general remarks	0	Y/2
E-ANNO-NPLT	Non-plotting graphic information	V	B/5
E-ANNO-PATT	Miscellaneous patterning and hatching	0	V
E-ANNO-REDL	Redlines	0	R/1
E-ANNO-REFR	Reference files	NA	NA
E-ANNO-REVS	Revisions	0	C/4
E-ANNO-SYMB	Miscellaneous symbols	V	M/6
E-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	0	V

BCNS - Beacons

AIA Name	Description	Line Style	Color
E-BCNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-BCNS-MISC	Miscellaneous navaids - windcones and beacons	0	203
E-BCNS-STRB	Strobe beacons	0	203

BELL - Bell System

AIA Name	Description	Line Style	Color
E-BELL-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-BELL-SYMB	Bell system symbols	0	203

CABL - Cable System

AIA Name	Description	Line Style	Color
E-CABL-COAX	Coax cable	2	83
E-CABL-FIBR	Fiber optics cable	FIBOPT	83
E-CABL-IDEN	Cable identifiers	0	Y/2
E-CABL-MULT	Multi-conductor cable	V	83
E-CABL-TRAY	Cable trays and wireways	0	203

CATH - Cathodic Protection System

AIA Name	Description	Line Style	Color
E-CATH-ANOD	Sacrificial anode system	0	83
E-CATH-CURR	Impress current system	0	83
E-CATH-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-CATH-TEST	Test stations	0	83

CATV - Cable TV System

AIA Name	Description	Line Style	Color
E-CATV-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-CATV-SYMB	Cable television system symbols	0, CABLTV	203

CCTV - Cable TV System

AIA Name	Description	Line Style	Color
E-CCTV-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-CCTV-SYMB	Closed-circuit television system symbols	0	203

CIRC - Circuits

AIA Name	Description	Line Style	Color
E-CIRC-CTRL	Control and monitoring circuits	0	163
E-CIRC-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-CIRC-MULT	Multiple circuits	0	23
E-CIRC-SERS	Series circuits	0	203

CLOK - Clock System

AIA Name	Description	Line Style	Color
E-CLOK-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-CLOK-SYMB	Clock system symbols	0	203

COMM - Communications

AIA Name	Description	Line Style	Color
E-COMM-EQPM	Other communications distribution equipment	0	23
E-COMM-JBOX	Communication junction boxes, pull boxes, manholes, handholes, pedestals, splices	0	23

E-COMM-OVHD	Overhead communications/telephone lines	COMARN	C/4
E-COMM-OVHD-IDEN	Identifier tags, symbol modifier and text	0	Y/2
E-COMM-UNDR	Underground communications/telephone lines	COMUGN	C/4
E-COMM-UNDR-IDEN	Identifier tags, symbol modifier and text	0	Y/2
E-COMM-VALT	Communications vault	0	21

DETL - Detail Information

AIA Name	Description	Line Style	Color
E-DETL-GRPH	Graphics, gridlines, non-text items	V	V
E-DETL-INPD	Inch-pound-specific dimensions and notes	0	Y/2
E-DETL-METR	Metric-specific dimensions and notes	0	Y/2

DIAG - Diagram Information

AIA Name	Description	Line Style	Color
E-DIAG-GRPH	Graphics, gridlines, non-text items	V	V
E-DIAG-IDEN	Identifier tags, symbol modifier and text	0	Y/2
E-DIAG-INPD	Inch-pound-specific dimensions and notes	0	Y/2
E-DIAG-METR	Metric-specific dimensions and notes	0	Y/2

DICT - Central Dictation System

AIA Name	Description	Line Style	Color
E-DICT-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-DICT-SYMB	Central dictation system symbols	0	203

DISC - Other Discipline Information

AIA Name	Description	Line Style	Color
E-DISC-INFO	Clearances and working space information (NEC code, etc.)	0	G/3

DUCT - Underground Duct Bank (to be used when multiple systems are in one ductbank system)

AIA Name	Description	Line Style	Color
E-DUCT-MULT	Ductbank	EUDUCN	83
E-DUCT-MULT-IDEN	Identifier tags, symbol modifier and text	0	Y/2

ELEC - Electrical Support Equipment

AIA Name	Description	Line Style	Color
E-ELEC-DEVC	Capacitors, voltage regulators, motors, buses, generators, meters, grounds, and markers	0	23
E-ELEC-JBOX	Junction boxes, pull boxes, manholes, handholes, pedestals, splices	0	23
E-ELEC-SUBS	Other substation equipment	0	23
E-ELEC-SWCH	Fuse cutouts, pole mounted switches, circuit breakers, gang operated disconnects, reclosers, cubicle switches	0	23
E-ELEC-VALT	Vaults	0	21

EMCS - Energy Monitoring Control Systems

AIA Name	Description	Line Style	Color
E-EMCS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-EMCS-SYMB	Energy monitoring control system symbols	0	203

EMER - Emergency Equipment

AIA Name	Description	Line Style	Color
E-EMER-EMER	Emergency systems equipment	0	C/4

FLOR - Floor Information

AIA Name	Description	Line Style	Color
E-FLOR-IDEN	Room name, space identification text (copied from Architectural - Floor Plan model file)	0	G/3
E-FLOR-NUMB	Room/space identification number and symbol (copied from Architectural - Floor Plan model file)	0	G/3

GRND - Ground System

AIA Name	Description	Line Style	Color
E-GRND-CIRC	Circuits	0	C/4
E-GRND-DIAG	Ground system diagram	0	163
E-GRND-EQUI	Equipotential ground system	0	83
E-GRND-REFR	Reference ground system	0	23

INTC - Intercom/Public Address System

AIA Name	Description	Line Style	Color
E-INTC-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-INTC-SYMB	Intercom/PA system symbols	0	203

LITE - Lights

AIA Name	Description	Line Style	Color
E-LITE-APPR	Approach lights	0	203
E-LITE-APRN	Apron Lighting	0	M/6
E-LITE-CIRC	Lighting circuits (including crosslines and homeruns)	0	83
E-LITE-CIRC-NUMB	Lighting circuit numbers (e.g., panel/circuit number, wire/conduit size)	0	Y/2
E-LITE-CLNG	Ceiling mounted (surface/pendant) fixtures	0	203
E-LITE-CONS	Constant Current Regulators	0	V
E-LITE-DIST	Distance and arresting gear markers and lights	0	203
E-LITE-EMER	Emergency fixtures (outline of light (if ceiling mounted) should go on E-LITE-CLNG)	0	23
E-LITE-EXIT	Exit fixtures (outline of light (if ceiling mounted) should go on E-LITE-CLNG)	0	203
E-LITE-EXTR	Exterior lights	0	203
E-LITE-EXTR-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-LITE-FLOR	Floor mounted fixtures (e.g., stage)	0	203
E-LITE-IDEN	Light fixture identifier tags	0	Y/2
E-LITE-JBOX	Junction boxes	0	83
E-LITE-LANE	Hoverlane, taxilane, and helipad lights	0	203
E-LITE-OBST	Obstruction lights	0	203
E-LITE-PANL	Main distribution panels, switchboards, lighting panels	0	C/4
E-LITE-RNWY-GARD	Runway guard lights	0	V
E-LITE-ROOF	Roof lighting	0	203
E-LITE-RUNW-CNTR	Runway Centerline lights	0	203
E-LITE-RUNW-DTGS1	Runway Distance to go lights	0	M/6

E-LITE-RUNW-EDGE	Runway edge lights	0	203
E-LITE-RUNW-TDZN	Runway Touchdown Zone lights	0	203
E-LITE-SIGN	Taxiway guidance signs	0	203
E-LITE-SPCL	Special fixtures	0	203
E-LITE-SWCH	Lighting contactors, photoelectric controls, low-voltage lighting controls, etc.	0	163
E-LITE-TAXI-CNTL	Taxiway centerline lights	0	203
E-LITE-TAXI-EDGE	Taxiway edge lights	0	V
E-LITE-THRS	Threshold lights	0	203
E-LITE-WALL	Wall mounted fixtures	0	203

LTNG - Lightning Protection System

AIA Name	Description	Line Style	Color
E-LTNG-COND	Lightning protection conductors	0	203
E-LTNG-TERM	Lightning protection terminals	0	203

NURS - Nurse Call / Paging System

AIA Name	Description	Line Style	Color
E-NURS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-NURS-SYMB	Nurse call/paging system symbols	0	203

POLE - Utility Poles

AIA Name	Description	Line Style	Color
E-POLE-GUYS	Guying equipment	0	203
E-POLE-GUYS-IDEN	Guying equipment identifier tags, symbol modifiers, and text	0	Y/2
E-POLE-IDEN	Utility pole identifier tags, symbol modifier, and text	0	Y/2
E-POLE-UTIL	Utility poles	0	203

POWR - Power

AIA Name	Description	Line Style	Color
E-POWR-BUSW	Busways and wireways	0, BUSWAY, WIREWY	203
E-POWR-CABL	Cable trays	0	203
E-POWR-CIRC	Power circuits (including crosslines and homeruns)	V	83
E-POWR-CIRC-NUMB	Power circuit numbers (e.g., panel/circuit number, wire/conduit size)	0	Y/2
E-POWR-CLNG	Ceiling outlets (receptacles and switches)	0	83
E-POWR-FEED	Feeders	0	203
E-POWR-GENR	Generators and auxiliary equipment	0	C/4
E-POWR-JBOX	Junction boxes	0	83
E-POWR-MOTR	Motors and utilization equipment	0	C/4
E-POWR-PANL	Panelboards, switchboards, MCC, unit substations	0	C/4
E-POWR-SWCH	Disconnect switches, motor starters, contactors, etc.	0	163
E-POWR-URAC	Underfloor raceways	3	203
E-POWR-WALL	Wall/floor outlets (receptacles and switches)	0	83

PRIM - Primary Electrical Cables

AIA Name	Description	Line Style	Color
E-PRIM-OVHD	Overhead electrical utility lines	EPARN	C/4
E-PRIM-OVHD-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-PRIM-UNDR	Underground electrical utility lines	EPUGN	C/4
E-PRIM-UNDR-IDEN	Identifier tags, symbol modifier, and text	0	Y/2

SECD - Secondary Electrical Cables

AIA Name	Description	Line Style	Color

E-SECD-OVHD	Overhead electrical utility lines	ESARN	163
E-SECD-OVHD-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-SECD-UNDR	Underground electrical utility lines	ESUGN	163
E-SECD-UNDR-IDEN	Identifier tags, symbol modifier, and text	0	Y/2

SERT - Security Systems

AIA Name	Description	Line Style	Color
E-SERT-ACCS	Access control system symbols	0	23
E-SERT-BURD	Buried sensors	0	23
E-SERT-CLNG	Ceiling mounted sensors	0	23
E-SERT-FLOR	Floor mounted sensors	0	23
E-SERT-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-SERT-UNDR	Buried sensors	0	23
E-SERT-WALL	Wall mounted sensors	0	23

SOUN - Sound Systems

AIA Name	Description	Line Style	Color
E-SOUN-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-SOUN-SYMB	Sound system symbols	0	203

SPCL - Special Systems

AIA Name	Description	Line Style	Color
E-SPCL-IDEN	Special systems (UMCS, EMCS, CATV, etc.) identifier tags, symbol modifier, and text	0	Y/2
E-SPCL-JBOX	Junction boxes	0	83
E-SPCL-PANL	Panelboards, backing boards, patch panel racks	0	C/4
E-SPCL-SRFS	Surface Sensor System	0	V
E-SPCL-SYST	Special systems (UMCS, EMCS, CATV, etc.)	0	203
E-SPCL-TRAF	Traffic signal system	0	203

E-SPCL-TRAF-IDEN	Traffic signal identifier tags, symbol modifier, and text	0	Y/2

STAT - Demolition (used only in creating Existing Demolition model files)

AIA Name	Description	Line Style	Color
E-STAT-DEMO-PHS1	Demolition - phase 1	0	203
E-STAT-DEMO-PHS2	Demolition - phase 2	0	83
E-STAT-DEMO-PHS3	Demolition - phase 3	0	163

TRAN - Transformers

AIA Name	Description	Line Style	Color
E-TRAN-PADM	Pad mounted transformers	0	23
E-TRAN-PADM-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-TRAN-POLE	Pole mounted transformers	0	23
E-TRAN-POLE-IDEN	Identifier tags, symbol modifier, and text	0	Y/2

TVAN - TV Antenna System

AIA Name	Description	Line Style	Color
E-TVAN-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
E-TVAN-SYMB	TV antenna system symbols	0	203

Discipline: F - Fire Protection

AFFF - Aqueous Film Forming Foam System
ALRM - Fire Alarm / Detection Equipment
ANNO - General Information
CO2S - CO2 Sprinkler System
CTRL - Control Panels
DETL - Detail Information
FLOR - Floor Information
HALN - Halon System
IGAS - Inert Gas
LITE - Lights
LSFT - Egress Requirements
PROT - Fire Protection / Suppression Equipment
RATE - Fire Ratings
SMOK - Smoke/Pressurization Control
SPRN - Sprinkler System
STAT - Demolition (used only in creating Existing Demolition model files)
WATR - Water Supply and Distribution

Discipline: F - Fire Protection

AFFF - Aqueous Film Forming Foam System

AIA Name	Description	Line Style	Color
F-AFFF-EQPM	Equipment	0	82
F-AFFF-PIPE	Piping	0	82

ALRM - Fire Alarm / Detection Equipment

AIA Name	Description	Line Style	Color
F-ALRM-DTCT	Smoke/heat/other detectors	0	23
F-ALRM-INDC	Indicating appliances	0	83
F-ALRM-MANL	Manual fire alarm pull stations	0	23
F-ALRM-PHON	Fire service or emergency telephone stations	0	R/1

ANNO - General Information

AIA Name	Description	Line Style	Color
F-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	0	V
F-ANNO-KEYN	Reference keynotes with associated leaders	0	V
F-ANNO-LEGN	Legend & Schedule	0	V
F-ANNO-NOTE	General notes and general remarks	0	Y/2
F-ANNO-NPLT	Non-plotting graphic information	V	B/5
F-ANNO-PATT	Miscellaneous patterning and hatching	0	V
F-ANNO-REDL	Redlines	0	R/1
F-ANNO-REFR	Reference files	NA	NA
F-ANNO-REVS	Revisions	0	C/4
F-ANNO-SYMB	Miscellaneous symbols	V	M/6
F-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	0	V

CO2S - CO2 Sprinkler System

AIA Name	Description	Line Style	Color
F-CO2S-EQPM	Equipment	0	M/6
F-CO2S-PIPE	CO2 piping or CO2 discharge nozzle piping	0	M/6

CTRL - Control Panels

AIA Name	Description	Line Style	Color
F-CTRL-PANL	Control panels	0	23

DETL - Detail Information

AIA Name	Description	Line Style	Line Weight	Color
F-DETL-GRPH	Graphics, gridlines, non-text items	V	V	V
F-DETL-INPD	Inch-pound-specific dimensions and notes	0	0.35	Y/2
F-DETL-METR	Metric-specific dimensions and notes	0	0.35	Y/2

FLOR - Floor Information

AIA Name	Description	Line Style	Color
F-FLOR-IDEN	Room name, space identification text (copied from Architectural - Floor Plan model file)	0	G/3
F-FLOR-NUMB	Room/space identification number and symbol (copied from Architectural - Floor Plan model file)	0	G/3

HALN - Halon System

AIA Name	Description	Line Style	Color
F-HALN-EQPM	Halon equipment	0	22
F-HALN-PIPE	Halon piping	0	22

IGAS - Inert Gas

AIA Name	Description	Line Style	Color
F-IGAS-EQPM	Inert gas equipment	0	162
F-IGAS-PIPE	Inert gas piping	0	162

LITE - Lights

AIA Name	Description	Line Style	Color
F-LITE-EMER	Emergency fixtures	0	23
F-LITE-EXIT	Exit fixtures	0	203

LSFT - Egress Requirements

AIA Name	Description	Line Style	Color
F-LSFT-EGRE	Egress requirements designator	0	M/6
F-LSFT-OCCP	Occupant load for egress capacity	0	M/6
F-LSFT-TRVL	Maximum travel distances	0	M/6

PROT - Fire Protection / Suppression Equipment

AIA Name	Description	Line Style	Color
F-PROT-CABN	Fire hose cabinets	0	Y/2
F-PROT-EXTN	Fire extinguishers and fire extinguisher cabinets	0	Y/2
F-PROT-HOSE	Fire hoses	0	Y/2

RATE - Fire Ratings

AIA Name	Description	Line Style	Color
F-RATE-DOOR	Door fire ratings	0	C/4
F-RATE-WALL	Wall fire ratings	0	C/4

SMOK - Smoke/Pressurization Control

AIA Name	Description	Line Style	Color
F-SMOK-DAMP	Dampers	0	22

SPRN - Sprinkler System

AIA Name	Description	Line Style	Color
F-SPRN-CLHD	Sprinkler - ceiling heads	0	122
F-SPRN-COMB	Combination system	0	R/1
F-SPRN-OTHD	Sprinkler - other heads	0	122
F-SPRN-OTHR	Sprinkler - other	0	G/3
F-SPRN-PEND	Sprinkler - pendant	0	G/3
F-SPRN-PIPE	Sprinkler piping	SPRINK	C/4
F-SPRN-STAN	Standpipe system	0	Y/2

STAT - Demolition (used only in creating Existing Demolition model files)

AIA Name	Description	Line Style	Color
F-STAT-DEMO	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	M/6
F-STAT-DEMO-PHS1	Demolition - phase 1	0	203
F-STAT-DEMO-PHS2	Demolition - phase 2	0	83
F-STAT-DEMO-PHS3	Demolition - phase 3	0	163
F-STAT-EXST	Existing to remain	0	G/3
F-STAT-FUTR	Future work	7	Y/2
F-STAT-MOVE	Items to be moved	6	M/6
F-STAT-NEWW	New work	0	C/4
F-STAT-NICN	Not in contract	3	Gr/8
F-STAT-PHS#	Phase numbers (#=1-9)	0	Y/2
F-STAT-RELO	Relocated items	2	B/5
F-STAT-TEMP	Temporary work	4	C/4

WATR - Water Supply and Distribution

AIA Name	Description	Line Style	Color
F-WATR-CONN	Fire department connections	0	122
F-WATR-HYDR	Hydrants	0	122
F-WATR-PIPE	Piping	FIRE	C/4
F-WATR-PUMP	Fire pumps	0	122

Discipline: G – General

ANNO - General Information
GRID - Grid Lines
PLAN - Floor Information
SITE - Site Information

Discipline: G - General

ANNO - General Information

AIA Name	Description	Line Style	Color
G-ANNO-LEGN	Legend & Schedule	0	V
G-ANNO-NPLT	Non-plotting graphic information	V	B/5
G-ANNO-PATT	Miscellaneous patterning and hatching	0	V
G-ANNO-REDL	Redlines	0	R/1
G-ANNO-REFR	Reference files	NA	NA
G-ANNO-REVS	Revisions	0	C/4
G-ANNO-SYMB	Miscellaneous symbols	V	M/6
G-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	0	V
G-ANNO-TTLB	Border and title block linework	0	V

GRID - Grid Lines

AIA Name	Description	Line Style	Color
G-GRID-EXTR	Column grid outside building	7	B/5
G-GRID-IDEN	Column grid tags	0	R/1

PLAN - Floor Information

AIA Name	Description	Line Style	Color
G-PLAN-OTLN	Floor outline/perimeter/building footprint	0	M/6

SITE - Site Information

AIA Name	Description	Line Style	Color
G-SITE-OTLN	Site plan - key map	0	M/6

Discipline: H - Hazardous Materials

ANNO - General Information
BLDG - Buildings
DECN - Decontamination
DETL - Detail Information
DISP - Disposal Areas
FIXT - Emergency Fixtures
MNST - Monitoring Stations
POLL - Pollution Areas
SAMP - Sample Points
SECT - Sections
STAT - Demolition (used only in creating Existing Demolition model files)
STOR - Storage Facilities

Discipline: H - Hazardous Materials

ANNO - General Information

AIA Name	Description	Line Style	Color
H-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	0	V
H-ANNO-KEYN	Reference keynotes with associated leaders	0	V
H-ANNO-LEGN	Legend & Schedule	0	V
H-ANNO-NPLT	Non-plotting graphic information	V	B/5
H-ANNO-PATT	Miscellaneous patterning	0	V
H-ANNO-REDL	Redlines	0	R/1
H-ANNO-REVS	Revisions	0	C/4
H-ANNO-SYMB	Reference bubbles, matchlines and breaklines	V	M/6
H-ANNO-TEXT	Detail title text, text and associated leaders, notes	V	V

BLDG - Buildings

AIA Name	Description	Line Style	Color
H-BLDG-IDEN	Annotation	0	Y/2
H-BLDG-OTLN	Command posts, information centers	0	Y/2

DECN - Decontamination

AIA Name	Description	Line Style	Color
H-DECN-EQPM	Decontamination equipment	0	R/1
H-DECN-IDEN	Annotation	0	M/6

DETL - Detail Information

AIA Name	Description	Line Style	Color
H-DETL-GRPH	Graphics, gridlines, non-text items	V	V
H-DETL-INPD	Inch-pound-specific dimensions and notes	0	R/1
H-DETL-METR	Metric-specific dimensions and notes	0	G/3

DISP - Disposal Areas

AIA Name	Description	Line Style	Color
H-DISP-HAZW	Hazardous waste	0	B/5
H-DISP-IDEN	Annotation	0	M/6
H-DISP-MUNT	Munitions	0	B/5
H-DISP-TANK	Spill containment tanks	0	M/6

FIXT - Emergency Fixtures

AIA Name	Description	Line Style	Color
H-FIXT-EYEW	Emergency eyewashes	0	G/3
H-FIXT-SHOW	Emergency showers	0	G/3

MNST - Monitoring Stations

AIA Name	Description	Line Style	Color
H-MNST-AIRQ	Air quality	0	G/3
H-MNST-GWTR	Ground water	0	G/3
H-MNST-IDEN	Annotation	0	G/3
H-MNST-LAND	Landfill gas	0	G/3
H-MNST-SOIL	Soil gas	0	G/3
H-MNST-SWTR	Surface water	0	G/3

POLL - Pollution Areas

AIA Name	Description	Line Style	Color
H-POLL-CONC	Polluted area of concern	0	Y/2
H-POLL-IDEN	Annotation	0	Y/2
H-POLL-ORIG	Point of pollution origin	0	Y/2
H-POLL-POTN	Potential spill, emission, or release source	0	Y/2

SAMP - Sample Points

AIA Name	Description	Line Style	Color
H-SAMP-AIRS	Air samples	0	R/1
H-SAMP-BIOL	Biological samples	0	R/1
H-SAMP-GWTR	Ground water samples	0	R/1
H-SAMP-IDEN	Annotation	0	R/1

H-SAMP-MAGN	Magnetometer location points	0	R/1
H-SAMP-SEDI	Sediment samples	0	R/1
H-SAMP-SOIL	Soil samples	0	R/1
H-SAMP-SOLI	Solid material samples	0	R/1
H-SAMP-SWTR	Surface water samples	0	R/1
H-SAMP-WAST	Waste samples	0	R/1

SECT - Sections

AIA Name	Description	Line Style	Color
H-SECT-IDEN	Component identification numbers	0	Y/2
H-SECT-MBND	Material beyond section cut	0	B/5
H-SECT-MCUT	Material cut by section	0	C/4
H-SECT-PATT	Textures and hatch patterns	0	V

STAT - Demolition (used only in creating Existing Demolition model files)

AIA Name	Description	Line Style	Color
H-STAT-DEMO-PHS1	Demolition - phase 1	0	203
H-STAT-DEMO-PHS2	Demolition - phase 2	0	83
H-STAT-DEMO-PHS3	Demolition - phase 3	0	163

STOR - Storage Facilities

AIA Name	Description	Line Style	Color
H-STOR-HAZM	Hazardous materials	0	M/6
H-STOR-HAZW	Hazardous waste	0	M/6
H-STOR-IDEN	Annotation	0	M/6

Discipline: I – Interiors

ANNO - General Information
DETL - Detail Information
ELEV - Elevations
EQPM - Equipment
FLOR - Floor Information
FURN - Furniture
STAT - Demolition (used only in creating Existing Demolition model files)
SYST - Systems Furniture

Discipline: I - Interiors

ANNO - General Information

AIA Name	Description	Line Style	Color
I-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	0	V
I-ANNO-KEYN	Reference keynotes with associated leaders	0	V
I-ANNO-LEGN	Legend & Schedule	0	V
I-ANNO-NOTE	General notes and general remarks	0	Y/2
I-ANNO-NPLT	Non-plotting graphic information	V	B/5
I-ANNO-PATT	Miscellaneous patterning	0	V
I-ANNO-REDL	Redlines	0	R/1
I-ANNO-REVS	Revisions	0	C/4
I-ANNO-SYMB	Reference bubbles, matchlines and breaklines	V	M/6
I-ANNO-TEXT	Detail title text, text and associated leaders, notes	0	V

DETL - Detail Information

AIA Name	Description	Line Style	Color
I-DETL-GRPH	Graphics, gridlines, non-text items	V	V
I-DETL-INPD	Inch-pound-specific dimensions and notes	0	Y/2
I-DETL-METR	Metric-specific dimensions and notes	0	Y/2

ELEV - Elevations

AIA Name	Description	Line Style	Color
I-ELEV-CASE	Wall mounted casework	0	Y/2
I-ELEV-FIXT	Miscellaneous fixtures	0	G/3
I-ELEV-FNSH	Finishes, woodwork and trim	0	Y/2
I-ELEV-IDEN	Component identification numbers	0	B/5
I-ELEV-PATT	Textures and hatch patterns	0	V
I-ELEV-PFIX	Plumbing fixtures in elevation	0	R/1
I-ELEV-SIGN	Signage	0	R/1

EQPM - Equipment

AIA Name	Description	Line Style	Color
I-EQPM-ACCS	Equipment access	2	Gr/8
I-EQPM-CHLD	Child development (play toys, teaching rugs, play forms)	0	Y/2
I-EQPM-COPY	Copiers, fax machines, office equipment	0	Y/2
I-EQPM-FIXD	Fixed equipment	0	B/5
I-EQPM-IDEN	Equipment identification numbers	0	R/1
I-EQPM-MEDI	Medical (exam beds, dental chairs, etc.)	0	Y/2
I-EQPM-MOVE	Moveable equipment	2	B/5
I-EQPM-NICN	Not in contract equipment	1	Gr/8
I-EQPM-OVHD	Overhead, ceiling mounted, and suspended equipment	0	G/3
I-EQPM-STOR	Storage equipment	0	Y/2

FLOR - Floor Information

AIA Name	Description	Line Style	Color
I-FLOR-SIGN	Signage	0	M/6

FURN - Furniture

AIA Name	Description	Line Style	Color
I-FURN-ACCS	Accessories (vestibule matts, partitions, draperies, clocks, trash cans, lecturns, lamps, etc.)	0	R/1
I-FURN-ADPC	Automated Data Processing Components	0	Y/2
I-FURN-ARTW	Artwork	0	Y/2
I-FURN-CASE	Casegoods (desks, credenzas, beds, dressers, nightstands, wardrobes, etc.)	0	M/6
I-FURN-FLOR	Flooring (carpet, rugs, etc.)	0	Y/2
I-FURN-FREE	Free-standing furnishings (desks, beds, tables, dressers, credenzas, casegoods)	0	M/6
I-FURN-GRID	Planning grid/modular outline	0	C/4
I-FURN-IDEN	Furniture code identification	0	G/3
I-FURN-MISC	Miscellaneous furniture	0	Y/2
I-FURN-PLNT	Plants	0	R/1
I-FURN-SEAT	Chairs, sofas, etc.	0	Y/2
I-FURN-STOR	File cabinets, high density storage, shelving, storage cabinets	0	Y/2

STAT - Demolition (used only in creating Existing Demolition model files)

AIA Name	Description	Line Style	Color
I-STAT-DEMO-PHS1	Demolition - phase 1	0	203
I-STAT-DEMO-PHS2	Demolition - phase 2	0	83
I-STAT-DEMO-PHS3	Demolition - phase 3	0	163

SYST - Systems Furniture

AIA Name	Description	Line Style	Color
I-SYST-FURN	Furniture	0	Y/2
I-SYST-IDEN	Code identification	0	R/1
I-SYST-LITE	Lighting components	0	C/4
I-SYST-PATT	Patterns	0	V
I-SYST-PNLS	Panels	0	Y/2
I-SYST-POWR	Power, communication components	0	C/4
I-SYST-STOR	Storage components	0	Y/2
I-SYST-WALL	Systems furniture partition walls	0	Y/2
I-SYST-WKSF	Work surface components	0	Y/2

Discipline: L – Landscape

ANNO - General Information
DETL - Detail Information
IRRG - Irrigation System
PLNT - Plants
SITE - Site
STAT - Demolition (used only in creating Existing Demolition model files)

Discipline: L - Landscape

ANNO - General Information

AIA Name	Description	Line Style	Color
L-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	0	V
L-ANNO-KEYN	Reference keynotes with associated leaders	0	V
L-ANNO-LEGN	Legend & Schedule	0	V
L-ANNO-NOTE	General notes and general remarks	0	Y/2
L-ANNO-NPLT	Non-plotting graphic information	V	B/5
L-ANNO-PATT	Miscellaneous patterning	0	V
L-ANNO-REDL	Redlines	0	R/1
L-ANNO-REVS	Revisions	0	C/4
L-ANNO-SYMB	Reference bubbles, matchlines and breaklines	V	M/6
L-ANNO-TEXT	Detail title text, text and associated leaders, notes	V	V

DETL - Detail Information

AIA Name	Description	Line Style	Color
L-DETL-CABS	Cabinets, enclosures	0	Y/2
L-DETL-CONC	Concrete	0	R/1
L-DETL-ERTH	Earth	0	G/3
L-DETL-FENC	Fencing	0	M/6

L-DETL-FILL	Fill/cover material	0	B/5
L-DETL-FURN	Furniture, furnishings	0	Y/2
L-DETL-GATE	Gate	0	Y/2
L-DETL-GENF	General features (miscellaneous items)	0	M/6
L-DETL-GRAS	Grass, sod	0	G/3
L-DETL-GRPH	Graphics, gridlines, non-text items	V	V
L-DETL-INPD	Inch-pound-specific dimensions and notes	0	R/1
L-DETL-METR	Metric-specific dimensions and notes	0	G/3
L-DETL-STRC	Structural metal, supports	0	M/6
L-DETL-TKST	Tank Site	0	Y/2
L-DETL-VEGI	Planting details	0	G/3
L-DETL-VLVE	Valves, fittings	0	Y/2
L-DETL-WIRE	Wiring	0	M/6

IRRG - Irrigation System

AIA Name	Description	Line Style	Color
L-IRRG-COVR	Irrigation coverage, spray distribution patterns	0	B/5
L-IRRG-EQPM	Equipment (e.g., controllers, valves, RPBPs, etc.)	0	M/6
L-IRRG-HEAD	Irrigation heads, bubblers, and drip irrigation emitters	0	R/1
L-IRRG-IDEN	Annotation	0	Y/2
L-IRRG-PIPE	Piping	LAWNSP	M/6
L-IRRG-SPKL	Sprinklers	0	M/6

PLNT - Plants

AIA Name	Description	Line Style	Color
L-PLNT-BEDS	Planting beds	0	M/6
L-PLNT-BUSH	Bushes and shrubs (e.g., evergreen, deciduous)	0	83
L-PLNT-BUSH-LINE	Bush and shrub line	0	83
L-PLNT-CTNR	Containers or planters	0	R/1
L-PLNT-GRND	Groundcover and vines	0	82

L-PLNT-IDEN	Annotation	0	M/6
L-PLNT-MLCH	Mulches - organic and inorganic	0	G/3
L-PLNT-PLTS	Planting plants (e.g., ornamental annuals and perennials)	0	83
L-PLNT-SHAD	Shadow areas	0	B/5
L-PLNT-SPRG	Sprigs	0	G/3
L-PLNT-TREE	Trees (e.g., evergreen, deciduous, etc.)	0	83
L-PLNT-TREE-LINE	Tree line	TREEL	83
L-PLNT-TURF	Lawn areas (turfing limits)	0	23

SITE - Site

AIA Name	Description	Line Style	Color
L-SITE-BRDG	Bridges	0	22
L-SITE-DECK	Decks	0	232
L-SITE-FENC	Fencing	0	Y/2
L-SITE-FURN	Furnishings	0	C/4
L-SITE-GATE	Gate	0	Y/2
L-SITE-IDEN	Annotation	0	M/6
L-SITE-PLAY	Play structures	0	Y/2
L-SITE-POOL	Pools and spas	0	162
L-SITE-ROCK	Boulders and cobble	0	R/1
L-SITE-RTWL	Retaining walls	0	C/4
L-SITE-SPRT	Sports fields	0	Y/2
L-SITE-TUNL	Tunnels	0	22
L-SITE-WALK	Walks and steps	0	V

STAT - Demolition (used only in creating Existing Demolition model files)

AIA Name	Description	Line Style	Color
L-STAT-DEMO	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	M/6
L-STAT-DEMO-PHS1	Demolition - phase 1	0	203
L-STAT-DEMO-PHS2	Demolition - phase 2	0	83
L-STAT-DEMO-PHS3	Demolition - phase 3	0	163
L-STAT-EXST	Existing to remain	0	G/3
L-STAT-FUTR	Future work	7	Y/2
L-STAT-MOVE	Items to be moved	6	M/6
L-STAT-NEWW	New work	0	C/4
L-STAT-NICN	Not in contract	3	Gr/8
L-STAT-PHS#	Phase numbers (#=1-9)	0	Y/2
L-STAT-RELO	Relocated items	2	B/5
L-STAT-TEMP	Temporary work	4	C/4

Discipline: M – Mechanical

ACID - Industrial Waste Piping
AFRZ - Anti-Freeze
ALGN - Alignments
ANNO - General Information
BRIN - Brine Systems
CHEM - Chemical Treatment System
CNDW - Condenser Water System
COND - Condensate
CONT - Controls
CWTR - Chilled Water System
DETL - Detail Information
DIAG - Diagram Information
DISC - Other Discipline Information
DUAL - Dual Temperature Systems
DUST - Dust and Fume Collection Systems
ELEV - Elevations
EXHS - Exhaust
FLOR - Floor Information
GTHP - Geothermal Heat Pump System
HTCW - HTCW Utilities
HVAC - Heating, Ventilation and Air Conditioning
HWTR - Hot Water Heating System
HYDR - Hydraulic
INSL - Insulating (transformer) Oil
LUBE - Lubrication Oil
MACH - Machine Design
MATL - Material Handling
PENE - Penetrations
PROC - Process Piping
RCOV - Energy Recovery System
REFG - Refrigeration System
RWTR - Raw Water Piping
SECT - Sections
STAT - Demolition (used only in creating Existing Demolition model files)
STEM - Steam

Discipline: M - Mechanical

ACID - Industrial Waste Piping

AIA Name	Description	Line Style	Color
M-ACID-EQPM	Acid, alkaline, and oil waste equipment	0	M/6
M-ACID-PIPE	Acid, alkaline, and oil waste piping	ACIDWS	Y/2
M-ACID-VENT	Acid, alkaline, and oil waste vent piping	2	Y/2

AFRZ - Anti-Freeze

AIA Name	Description	Line Style	Color
M-AFRZ-PIPE	Anti-freeze piping	0	82
M-AFRZ-WAST	Waste anti-freeze piping	0	82

ALGN - Alignments

AIA Name	Description	Line Style	Color
M-ALGN-DATA	Alignment coordinates and curve data	0	G/3
M-ALGN-LINE	Alignments	4	Y/2
M-ALGN-STAT	Alignment stationing and tick marks	0	G/3

ANNO - General Information

AIA Name	Description	Line Style	Color
M-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	0	V
M-ANNO-KEYN	Reference keynotes with associated leaders	0	V
M-ANNO-LEGN	Legend & Schedule	0	V
M-ANNO-NOTE	General notes and general remarks	0	Y/2
M-ANNO-NPLT	Non-plotting graphic information	V	B/5

M-ANNO-PATT	Miscellaneous patterning and hatching	0	V
M-ANNO-REDL	Redlines	0	R/1
M-ANNO-REFR	Reference files	NA	NA
M-ANNO-REVS	Revisions	0	C/4
M-ANNO-SYMB	Miscellaneous symbols	V	M/6
M-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	0	V

BRIN - Brine Systems

AIA Name	Description	Line Style	Color
M-BRIN-EQPM	Brine system equipment	0	M/6
M-BRIN-PIPE	Brine system piping	BRINER, BRINES	Y/2

CHEM - Chemical Treatment System

AIA Name	Description	Line Style	Color
M-CHEM-EQPM	Equipment	0	121
M-CHEM-PIPE	Piping (includes fittings, valves)	0	121

CNDW - Condenser Water System

AIA Name	Description	Line Style	Color
M-CNDW-EQPM	Condenser water equipment	0	82
M-CNDW-PIPE	Condenser water piping	CONDWR, CONDWS	82

COND - Condensate

AIA Name	Description	Line Style	Color
M-COND-PIPE	Condensate piping (includes fittings, valves)	CDRNAF	G/3

CONT - Controls

AIA Name	Description	Line Style	Color
M-CONT-THER	Thermostats, controls, instrumentation, and sensors	0	R/1
M-CONT-WIRE	Low voltage wiring	1, 2	R/1

CWTR - Chilled Water System

AIA Name	Description	Line Style	Color
M-CWTR-EQPM	Equipment	0	122
M-CWTR-PIPE	Piping (includes fittings, valves)	CWR, CWS	122

DETL - Detail Information

AIA Name	Description	Line Style	Color
M-DETL-ACCS	Accessories	0	M/6
M-DETL-BOIL	Boilers	0	C/4
M-DETL-CABS	Cabinets	0	M/6
M-DETL-COIL	Coils and fin tubes	0	R/1
M-DETL-DUCT	Ducts	0	B/5
M-DETL-EQPT	Equipment and fixtures	0	Y/2
M-DETL-FANS	Fans	0	G/3
M-DETL-GENF	General features (miscellaneous items)	0	V
M-DETL-GRLS	Grilles and louvers	0	G/3
M-DETL-GRPH	Graphics, gridlines, non-text items	V	V
M-DETL-INPD	Inch-pound-specific dimensions and notes	0	R/1

M-DETL-INSL	Insulation and coverings	0	R/1
M-DETL-METR	Metric-specific dimensions and notes	0	G/3
M-DETL-MOTR	Motors	0	G/3
M-DETL-PIPE	Piping	0	Y/2
M-DETL-PUMP	Pumps and compressors	0	G/3
M-DETL-STRC	Structural support features	0	M/6
M-DETL-TANK	Tanks	0	Y/2
M-DETL-TRAP	Traps and drains	0	G/3
M-DETL-VENT	Vents	0	G/3
M-DETL-VLVE	Valves and fittings	0	Y/2
M-DETL-WIRE	Electrical wiring	0	R/1

DIAG - Diagram Information

AIA Name	Description	Line Style	Color
M-DIAG-GRPH	Graphics, gridlines, non-text items	V	V
M-DIAG-INPD	Inch-pound-specific dimensions and notes	0	R/1
M-DIAG-METR	Metric-specific dimensions and notes	0	G/3

DISC - Other Discipline Information

AIA Name	Description	Line Style	Color
M-DISC-INFO	Clearances and working space information	0, 1	G/3

DUAL - Dual Temperature Systems

AIA Name	Description	Line Style	Color
M-DUAL-EQPM	Equipment	0	22
M-DUAL-PIPE	Piping (includes fittings, valves)	DTR, DTS	22

DUST - Dust and Fume Collection Systems

AIA Name	Description	Line Style	Color
M-DUST-DUCT	Dust and fume ductwork	0	22
M-DUST-EQPM	Dust and fume collection equipment	0	22

ELEV - Elevations

AIA Name	Description	Line Style	Color
M-ELEV-FIXT	Miscellaneous fixtures	0	M/6
M-ELEV-IDEN	Component identification numbers	0	Y/2
M-ELEV-OTLN	Building outlines	0	M/6
M-ELEV-PATT	Textures and hatch patterns	0	V
M-ELEV-PFIX	Plumbing fixtures	0	M/6

EXHS - Exhaust

AIA Name	Description	Line Style	Color
M-EXHS-CDFF	Exhaust air ceiling registers and grilles	0	82
M-EXHS-DUCT	Exhaust ductwork	V	82
M-EXHS-EQPM	Equipment	0	82

FLOR - Floor Information

AIA Name	Description	Line Style	Color
M-FLOR-IDEN	Room name, space identification text (copied from Architectural - Floor Plan model file)	0	G/3
M-FLOR-NUMB	Room/space identification number and symbol (copied from Architectural - Floor Plan model file)	0	G/3

GTHP - Geothermal Heat Pump System

AIA Name	Description	Line Style	Color
M-GTHP-EQPM	Equipment	0	M/6
M-GTHP-PIPE	Piping (includes fittings, valves)	0	M/6

HTCW - HTCW Utilities

AIA Name	Description	Line Style	Color
M-HTCW-ABND	Abandoned piping	2	M/6
M-HTCW-CHLL	Main chilled water piping	0	M/6
M-HTCW-CHLP	Chilled water plant	0	M/6
M-HTCW-CHLS	Chilled water service piping	0	G/3
M-HTCW-DEVC	Rigid anchors, anchor guides, rectifiers, reducers, markers, meters, pumps, regulators, tanks, and valves	0	M/6
M-HTCW-FLOW	Flow direction arrows	0	G/3
M-HTCW-FTTG	Caps and flanges	0	M/6
M-HTCW-HTPL	Main high temperature piping	0	R/1
M-HTCW-HTPP	High temperature water plant	0	M/6
M-HTCW-HTPS	High temperature service piping	0	G/3
M-HTCW-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
M-HTCW-JBOX	Junction boxes, manholes, handholes, test boxes	0	R/1
M-HTCW-LTPL	Main low temperature piping	0	Y/2
M-HTCW-LTPS	Low temperature service piping	0	G/3
M-HTCW-PITS	Valve pits/vaults, steam pits	0	G/3

M-HTCW-PLNT-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
M-HTCW-PUMP	Pump stations	0	M/6
M-HTCW-RTRN	Return for all HTCW lines	0	B/5
M-HTCW-STML	Main steam piping	0	R/1
M-HTCW-STMS	Steam service piping	0	G/3
M-HTCW-STNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2

HVAC - Heating, Ventilation and Air Conditioning

AIA Name	Description	Line Style	Color
M-HVAC-ACCS	Equipment access doors	0, 1, 2	G/3
M-HVAC-CDFF	Ceiling diffusers, registers, and grilles	0	12
M-HVAC-DAMP	Fire and smoke dampers	0	R/1
M-HVAC-EQPM	Air system equipment	0	Y/2
M-HVAC-FDFF	Floor diffusers, registers, and grilles	0	162
M-HVAC-IDEN	Duct sizes	V	M/6
M-HVAC-RETN	Return ductwork	V	23
M-HVAC-ROOF	Roof mounted HVAC equipment	0	Y/2
M-HVAC-SUPP	Supply ductwork	V	C/4
M-HVAC-TAGS	Diffuser/register/grille tags and air flow arrows	0	M/6
M-HVAC-WDFF	Wall diffusers, registers, and grilles	0	Y/2

HWTR - Hot Water Heating System

AIA Name	Description	Line Style	Color
M-HWTR-EQPM	Equipment	0	12
M-HWTR-PIPE	Piping (includes fittings, valves)	HWR, HWS	12

HYDR - Hydraulic

AIA Name	Description	Line Style	Color
M-HYDR-EQPM	Hydraulic system equipment	0	M/6

M-HYDR-PIPE	Hydraulic system piping	0	Y/2

INSL - Insulating (transformer) Oil

AIA Name	Description	Line Style	Color
M-INSL-EQPM	Insulating oil equipment	0	M/6
M-INSL-PIPE	Insulating oil piping	0	Y/2

LUBE - Lubrication Oil

AIA Name	Description	Line Style	Color
M-LUBE-EQPM	Lubrication oil equipment	0	M/6
M-LUBE-PIPE	Lubrication oil piping	0	Y/2

MACH - Machine Design

AIA Name	Description	Line Style	Color
M-MACH-BASE	Machinery bases	0	Y/2
M-MACH-COMP	Miscellaneous machinery parts and components	0	Y/2
M-MACH-EXST	Existing machinery	0	G/3
M-MACH-FAST	Fasteners, nuts, and bolts	0	Y/2
M-MACH-LROT	Large rotating machinery (turbine and pump outlines)	0	M/6
M-MACH-MOTR	Machinery motors	0	M/6

MATL - Material Handling

AIA Name	Description	Line Style	Color
M-MATL-CRAN	Bridge cranes, jib cranes, and monorails	0	Y/2
M-MATL-HOIS	Hoists and hooks	0	Y/2
M-MATL-LIFT	Miscellaneous lifting equipment	0	M/6

PENE - Penetrations

AIA Name	Description	Line Style	Color
M-PENE-FLOR	Floor penetrations	2	G/3
M-PENE-ROOF	Roof penetrations	2	R/1

PROC - Process Piping

AIA Name	Description	Line Style	Color
M-PROC-EQPM	Equipment	0	M/6
M-PROC-PIPE	Process piping	0	Y/2

RCOV - Energy Recovery System

AIA Name	Description	Line Style	Color
M-RCOV-EQPM	Equipment	0	M/6
M-RCOV-PIPE	Piping (includes fittings, valves)	0	M/6

REFG - Refrigeration System

AIA Name	Description	Line Style	Color
M-REFG-EQPM	Equipment	0	M/6
M-REFG-PIPE	Piping (includes fittings, valves)	REFRD, REFRL, REFRS	M/6

RWTR - Raw Water Piping

AIA Name	Description	Line Style	Color
M-RWTR-EQPM	Raw water equipment	0	M/6
M-RWTR-PIPE	Raw water piping	0	Y/2

SECT - Sections

AIA Name	Description	Line Style	Color
M-SECT-IDEN	Component identification numbers	0	Y/2
M-SECT-MBND	Material beyond section cut	V	B/5
M-SECT-MCUT	Material cut by section	0	C/4
M-SECT-PATT	Textures and hatch patterns	0	V

STAT - Demolition (used only in creating Existing Demolition model files)

AIA Name	Description	Line Style	Color
M-STAT-DEMO	Demolition	2	M/6
M-STAT-DEMO-PHS1	Demolition - phase 1	0	203
M-STAT-DEMO-PHS2	Demolition - phase 2	0	83
M-STAT-DEMO-PHS3	Demolition - phase 3	0	163
M-STAT-EXST	Existing to remain	0	G/3
M-STAT-FUTR	Future work	7	Y/2
M-STAT-MOVE	Items to be moved	6	M/6

M-STAT-NEWW	New work	0	C/4
M-STAT-NICN	Not in contract	3	Gr/8
M-STAT-PHS#	Phase numbers (#=1-9)	0	Y/2
M-STAT-RELO	Relocated items	2	B/5
M-STAT-TEMP	Temporary work	4	C/4

STEM - Steam

AIA Name	Description	Line Style	Color
M-STEM-EQPM	Equipment	0	Y/2
M-STEM-PIPE	Steam piping	STEAM	Y/2

Discipline: P – Plumbing

ANNO - General Information
CMPA - Compressed Air
DETL - Detail Information
DIAG - Diagram Information
DISC - Other Discipline Information
DOMW - Domestic Water
FLOR - Floor Information
FUEL - Liquid Fuel
LGAS - Laboratory Piping
MDGS - Medical/Dental Piping
PENE - Penetrations
SANR - Sanitary Drainage Piping
STAT - Demolition (used only in creating Existing Demolition model files)
STRM - Storm Sewer

Discipline: P - Plumbing

ANNO - General Information

AIA Name	Description	Line Style	Color
P-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	0	V
P-ANNO-KEYN	Reference keynotes with associated leaders	0	V
P-ANNO-LEGN	Legend & Schedule	0	V
P-ANNO-NOTE	General notes and general remarks	0	Y/2
P-ANNO-NPLT	Non-plotting graphic information	V	B/5
P-ANNO-PATT	Miscellaneous patterning and hatching	0	V
P-ANNO-REDL	Redlines	0	R/1
P-ANNO-REFR	Reference files	NA	NA
P-ANNO-REVS	Revisions	0	C/4
P-ANNO-SYMB	Reference bubbles, matchlines and breaklines	V	M/6
P-ANNO-TEXT	Detail title text, text and associated leaders, notes	V	V

CMPA - Compressed Air

AIA Name	Description	Line Style	Color
P-CMPA-EQPM	Equipment	0	84
P-CMPA-PIPE	Piping	CMPAIR	83

DETL - Detail Information

AIA Name	Description	Line Style	Color
P-DETL-GRPH	Graphics, gridlines, non-text items	V	V
P-DETL-INPD	Inch-pound-specific dimensions and notes	0	Y/2
P-DETL-METR	Metric-specific dimensions and notes	0	Y/2

DIAG - Diagram Information

AIA Name	Description	Line Style	Color
P-DIAG-GRPH	Graphics, gridlines, non-text items	0, 2	V
P-DIAG-INPD	Inch-pound-specific dimensions and notes	0	R/1
P-DIAG-METR	Metric-specific dimensions and notes	0	R/1

DISC - Other Discipline Information

AIA Name	Description	Line Style	Color
P-DISC-INFO	Information and notes for other disciplines	V	V

DOMW - Domestic Water

AIA Name	Description	Line Style	Color
P-DOMW-ACCS	Equipment access doors	0	82
P-DOMW-CPIP	Domestic cold water piping	CLDWTR	123
P-DOMW-EQPM	Hot and cold water equipment	0	7
P-DOMW-FPIP	Domestic filtered water piping	0	83
P-DOMW-HPIP	Domestic hot water piping	HWTR, HWTRR	113
P-DOMW-RISR	Domestic hot and cold water risers	2	G/3
P-DOMW-RPIP	Domestic hot water recirculation piping	11	113

FLOR - Floor Information

AIA Name	Description	Line Style	Color
P-FLOR-IDEN	Room name, space identification text (copied from Architectural - Floor Plan model file)	0	G/3
P-FLOR-NUMB	Room/space identification number and symbol (copied from Architectural - Floor Plan model file)	0	G/3

FUEL - Liquid Fuel

AIA Name	Description	Line Style	Color
P-FUEL-EQPM	Equipment	0	24
P-FUEL-FGAS	Fuel gas piping	LIQPET	23
P-FUEL-FOIL	Fuel oil piping	FUELOR, FUELOS, FUELOV	23
P-FUEL-NGAS	Natural gas piping	NTGASN	23

LGAS - Laboratory Piping

AIA Name	Description	Line Style	Color
P-LGAS-EQPM	Equipment	0	24
P-LGAS-PIPE	Piping	OXYGEN, NITROG, HELIUM, HYDRGN, ACIDWS, DSTWTR, DIOWTR	23

MDGS - Medical/Dental Piping

AIA Name	Description	Line Style	Color
P-MDGS-EQPM	Equipment	0	24
P-MDGS-PIPE	Piping	OXYGEN, NITOXI, VACAIR	23

PENE - Penetrations

AIA Name	Description	Line Style	Color
P-PENE-FLOR	Floor penetrations	2	G/3
P-PENE-ROOF	Roof penetrations	2	R/1

SANR - Sanitary Drainage Piping

AIA Name	Description	Line Style	Color
P-SANR-COND	Condensate piping	0	83
P-SANR-EQPM	Equipment (e.g., sand/oil/water separators)	0	204
P-SANR-FIXT	Plumbing fixtures	0	M/6
P-SANR-FLDR	Floor drains, sinks, and cleanouts	0	M/6
P-SANR-PIPE	Piping	SSWAF	203

P-SANR-RISR	Sanitary risers	2	203
P-SANR-VENT	Vent piping	VENT	203

STAT - Demolition (used only in creating Existing Demolition model files)

AIA Name	Description	Line Style	Color
P-STAT-DEMO	Demolition	2	M/6
P-STAT-DEMO-PHS1	Demolition - phase 1	0	203
P-STAT-DEMO-PHS2	Demolition - phase 2	0	83
P-STAT-DEMO-PHS3	Demolition - phase 3	0	163
P-STAT-EXST	Existing to remain	0	G/3
P-STAT-FUTR	Future work	7	Y/2
P-STAT-MOVE	Items to be moved	6	M/6
P-STAT-NEWW	New work	0	C/4
P-STAT-NICN	Not in contract	3	Gr/8
P-STAT-PHS#	Phase numbers (#=1-9)	0	Y/2
P-STAT-RELO	Relocated items	2	B/5
P-STAT-TEMP	Temporary work	4	C/4

STRM - Storm Sewer

AIA Name	Description	Line Style	Color
P-STRM-PIPE	Storm drain piping	STRAF	163
P-STRM-RFDR	Roof drains	0, ROOFDN	163
P-STRM-RISR	Storm drain risers	2	163

Discipline: S – Structural

ANNO - General Information
BEAM - Beam
BRAC - Bracing
COLS - Columns
DECK - Deck
DETL - Detail Information
FEAT - Features
FNDN - Foundation
GRAT - Grating
GRDL - Grade Lines
GRID - Grid Lines
JOIN - Joints
JOIS - Open Web Joists
METL - Miscellaneous Metal
OPEN - Openings
PADS - Pads (Arm/Disarm, Calibrations, etc.)
PIPE - Piping
REIN - Reinforcing
SAFE - Safety Barriers
SECT - Sections
SLAB - Slabs
SPPT - Miscellaneous Supports
STAT - Demolition (used only in creating Existing Demolition model files)
STRS - Stairs and Elevators
TRUS - Trusses
WALL – Walls

Discipline: S - Structural

ANNO - General Information

AIA Name	Description	Line Style	Color
S-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text, welding symbols	0	V
S-ANNO-KEYN	Reference keynotes with associated leaders	0	V
S-ANNO-LEGN	Legend & Schedule	0	V
S-ANNO-NOTE	General notes and general remarks	0	Y/2
S-ANNO-NPLT	Non-plotting graphic information	V	B/5
S-ANNO-PATT	Miscellaneous patterning and hatching	0	V

S-ANNO-REDL	Redlines	0	R/1
S-ANNO-REFR	Reference files	NA	NA
S-ANNO-REVS	Revisions	0	C/4
S-ANNO-SYMB	Reference bubbles, matchlines and breaklines	V	M/6
S-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	0	V

BEAM - Beam

AIA Name	Description	Line Style	Color
S-BEAM-CNTR	Beam centerlines	7	B/5
S-BEAM-PRIM	Primary beams, girders	0, 2	C/4
S-BEAM-SECD	Secondary beams, girders	0, 2	M/6

BRAC - Bracing

AIA Name	Description	Line Style	Color
S-BRAC-LATL	Lateral bracing	0, 2	Y/2
S-BRAC-SHEA	Shear walls	0, 2	Y/2
S-BRAC-VERT	Vertical bracing	0, 2	Y/2

COLS - Columns

AIA Name	Description	Line Style	Color
S-COLS-CNTR	Column centerlines/working lines	7	10
S-COLS-MSC1	Miscellaneous columns (Type 1)	0	22
S-COLS-MSC2	Miscellaneous columns (Type 2)	0	22
S-COLS-MSC3	Miscellaneous columns (Type 3)	0	22
S-COLS-MSC4	Miscellaneous columns (Type 4)	0	22
S-COLS-PRIM	Primary columns	0	M/6
S-COLS-SCND	Secondary columns	0	Y/2

DECK - Deck

AIA Name	Description	Line Style	Color
S-DECK-FLOR	Floor deck	0, 2	G/3
S-DECK-OPEN	Openings and penetrations	0, 2	R/1
S-DECK-RBAR	Deck/slab reinforcing	0, 2	W/7
S-DECK-ROOF	Roof deck	0	G/3

DETL - Detail Information

AIA Name	Description	Line Style	Color
S-DETL-GRPH	Graphics, gridlines, non-text items	V	V
S-DETL-INPD	Inch-pound-specific dimensions and notes	0	Y/2
S-DETL-METR	Metric-specific dimensions and notes	0	Y/2

FEAT - Features

AIA Name	Description	Line Style	Color
S-FEAT-CMUW	CMU outline (no patterning)	0, 2	Y/2
S-FEAT-CNTR	Feature centerlines	7	B/5
S-FEAT-CONC	Concrete outline (no patterning)	0, 2	M/6
S-FEAT-GENL	General features (miscellaneous items)	0, 2	M/6
S-FEAT-WOOD	Wood outline (no patterning)	0, 2	Y/2

FNDN - Foundation

AIA Name	Description	Line Style	Color
S-FNDN-CNTR	Beam centerlines	7	B/5
S-FNDN-FTNG	Footings	0, 2	C/4
S-FNDN-GRBM	Grade beams	0, 2	C/4
S-FNDN-PEDS	Column pedestals	0, 2	C/4
S-FNDN-PILE	Piles (steel sheet, concrete, wood), piers, caisson piers, drilled piers	0, 2	Y/2
S-FNDN-RBAR	Foundation reinforcing	0, 2	W/7

GRAT - Grating

AIA Name	Description	Line Style	Color
S-GRAT-ELEV	Elevated grating (catwalks)	0, 2	G/3
S-GRAT-FLOR	Floor grating	0, 2	G/3
S-GRAT-SUBS	Subsurface grating	0, 2	G/3

GRDL - Grade Lines

AIA Name	Description	Line Style	Color
S-GRDL-EXGL	Existing ground	3	G/3
S-GRDL-FNGR	Finished grade	0	Y/2
S-GRDL-WATR	Water surface	0	G/3

GRID - Grid Lines

AIA Name	Description	Line Style	Color
S-GRID-HORZ	Primary grid lines (horizontal)	7	B/5
S-GRID-IDEN	Column I.D. tags	0	R/1
S-GRID-MSC	Miscellaneous grid lines (Type 1)	0	Gr/8
S-GRID-MSC2	Miscellaneous grid lines (Type 2)	0	Gr/8
S-GRID-MSC3	Miscellaneous grid lines (Type 3)	0	Gr/8
S-GRID-MSC4	Miscellaneous grid lines (Type 4)	0	Gr/8
S-GRID-VERT	Primary grid lines (vertical)	7	B/5

JOIN - Joints

AIA Name	Description	Line Style	Color
S-JOIN-CNST	Construction joints	0	G/3
S-JOIN-CTRL	Control/expansion joints	0	R/1

JOIS - Open Web Joists

AIA Name	Description	Line Style	Color
S-JOIS-BRDG	Bridging	2	R/1
S-JOIS-PRIM	Primary joists	0, 2	C/4
S-JOIS-SECD	Secondary joists	0, 2	M/6

METL - Miscellaneous Metal

AIA Name	Description	Line Style	Color
S-METL-MISC	Miscellaneous metal	0, 2	M/6

OPEN - Openings

AIA Name	Description	Line Style	Color
S-OPEN-MISC	Openings and penetrations	0, 2	R/1

PADS - Pads (Arm/Disarm, Calibrations, etc.)

AIA Name	Description	Line Style	Color
S-PADS-EQPM	Equipment pads	0, 2	M/6

PIPE - Piping

AIA Name	Description	Line Style	Color
S-PIPE-GATE	Gates (flap gates, sluice gates, other)	0, 2	G/3
S-PIPE-MISC	Miscellaneous piping/culverts	0, 2	Y/2
S-PIPE-TRSH	Trash racks	0, 2	G/3

REIN - Reinforcing

AIA Name	Description	Line Style	Color
S-REIN-RBAR	Rebar, welded wire mesh	0, 2	W/7

SAFE - Safety Barriers

AIA Name	Description	Line Style	Color
S-SAFE-FENC	Fencing	0	G/3
S-SAFE-HRAL	Handrails	0	G/3

SECT - Sections

AIA Name	Description	Line Style	Color
S-SECT-CMUW	CMU outline (no patterning)	0, 2	Y/2
S-SECT-CNTR	Centerlines	7	B/5
S-SECT-CONC	Concrete outline (no patterning)	0, 2	M/6
S-SECT-FNGR	Finished grade	0	Y/2
S-SECT-GENF	General features (miscellaneous items)	0, 2	M/6
S-SECT-JOIN	Joint materials (e.g., felt), vapor barrier, other	0, 2	R/1
S-SECT-MISC	Miscellaneous fasteners, anchor bolts, supports	0, 2	G/3
S-SECT-PRIM	Primary beams/girders outlines	0, 2	C/4
S-SECT-RBAR	Rebar, welded wire mesh	0, 2, WWFBRC	W/7
S-SECT-SHPS	Miscellaneous shapes, plates	0, 2	G/3
S-SECT-STLS	Wide flange shapes, plates, open web joists, decking	0, 2	G/3
S-SECT-WOOD	Wood outline (no patterning)	0, 2	Y/2

SLAB - Slabs

AIA Name	Description	Line Style	Color
S-SLAB-EDGE	Edge of slab	0, 2	Y/2
S-SLAB-OPEN	Openings and penetrations	0, 2	R/1
S-SLAB-RBAR	Slab reinforcing	0, 2	W/7

SPPT - Miscellaneous Supports

AIA Name	Description	Line	Color

		Style	
S-SPPT-MISC	Miscellaneous fasteners, anchor bolts, supports	0, 2	G/3
S-SPPT-SHPS	Miscellaneous shapes, plates	0, 2	G/3

STAT - Demolition (used only in creating Existing Demolition model files)

AIA Name	Description	Line Style	Color
S-STAT-DEMO	Demolition	2	M/6
S-STAT-DEMO-PHS1	Demolition - phase 1	0	203
S-STAT-DEMO-PHS2	Demolition - phase 2	0	83
S-STAT-DEMO-PHS3	Demolition - phase 3	0	163
S-STAT-EXST	Existing to remain	V	91
S-STAT-FUTR	Future work	7	Y/2
S-STAT-MOVE	Items to be moved	6	M/6
S-STAT-NEWW	New work	0	C/4
S-STAT-NICN	Not in contract	3	Gr/8
S-STAT-PHS#	Phase numbers (#=1-9)	0	Y/2
S-STAT-RELO	Relocated items	2	B/5
S-STAT-TEMP	Temporary work	4	C/4

STRS - Stairs and Elevators

AIA Name	Description	Line Style	Color
S-STRS-FRAM	Stair/elevator framing	0, 2	M/6
S-STRS-LADD	Ladders, ladder handrails, safety guard, grab bars	0, 2	G/3
S-STRS-RBAR	Stair reinforcing	0, 2	W/7

TRUS - Trusses

AIA Name	Description	Line Style	Color
S-TRUS-PRIM	Primary trusses	0, 2	C/4
S-TRUS-SECD	Secondary trusses	0, 2	M/6

WALL - Walls

AIA Name	Description	Line Style	Color
S-WALL-CONC	Concrete walls	0, 2	Y/2
S-WALL-HBAR	Horizontal/secondary reinforcement	0, 2	C/4
S-WALL-LOAD	Load bearing CMU walls	0, 2	Y/2
S-WALL-NONL	Non-load bearing CMU walls	0, 2	M/6
S-WALL-OPEN	Openings and penetrations	0, 2	R/1
S-WALL-OTLN	Wall outline	0, 2	Y/2
S-WALL-PCST	Precast walls	0, 2	Y/2
S-WALL-RBAR	Wall reinforcing	0, 2	W/7
S-WALL-STUD	Stud walls	0, 2	Y/2
S-WALL-VBAR	Vertical/primary reinforcement	0, 2	C/4

Discipline: T – Telecommunications

ALRM - Fire Alarm / Detection Equipment
ANNO - General Information
CABL - Cable System
CLOK - Clock System
COMM - Communications
DIAG - Diagram Information
DISC - Other Discipline Information
EQPM - Equipment
FLOR - Floor Information
JACK - Jacks
NURS - Nurse Call / Paging System
SOUN - Sound Systems
STAT - Demolition (used only in creating Existing Demolition model files)

Discipline: T - Telecommunications

ALRM - Fire Alarm / Detection Equipment

AIA Name	Description	Line Style	Color
T-ALRM-IDEN	Identifier tags, symbol modifier, and text	0	R/1
T-ALRM-SYST	Miscellaneous alarm system symbols	0	M/6

ANNO - General Information

AIA Name	Description	Line Style	Color
T-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	0	V
T-ANNO-KEYN	Reference keynotes with associated leaders	0	V
T-ANNO-LEGN	Legend & Schedule	0	V
T-ANNO-NOTE	General notes and general remarks	0	Y/2
T-ANNO-NPLT	Non-plotting graphic information	V	B/5
T-ANNO-PATT	Miscellaneous patterning and hatching	0	V
T-ANNO-REDL	Redlines	0	R/1
T-ANNO-REFR	Reference files	NA	NA

T-ANNO-REVS	Revisions	0	C/4
T-ANNO-SYMB	Miscellaneous symbols	V	M/6
T-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	0	V

CABL - Cable System

AIA Name	Description	Line Style	Color
T-CABL-COAX	Coax cable	2	83
T-CABL-FIBR	Fiber optics cable	FIBOPT	83
T-CABL-IDEN	Cable identifiers	0	Y/2
T-CABL-MULT	Multi-conductor cable	V	83
T-CABL-TRAY	Cable trays and wireways	0	203

CLOK - Clock System

AIA Name	Description	Line Style	Color
T-CLOK-IDEN	Identifier tags, symbol modifier, and text	0	R/1
T-CLOK-SYST	Clock system symbols	0	M/6

COMM - Baggage Handling Equipment

AIA Name	Description	Line Style	Color
T-COMM-APSY	Audio paging system	0	V
T-COMM-ATMS	Advanced traffic management system	0	V
T-COMM-AVID	Automatic vehicle identification system	0	V
T-COMM-BIDS	Baggage information display system	0	V
T-COMM-FIDS	Flight information display system	0	V
T-COMM-GISY	Gate information system	0	V
T-COMM-JBOX	Junction boxes	0	83
T-COMM-PMRC	Parking management and revenue control	0	V
T-COMM-VPSY	Visual paging system	0	V

DIAG - Diagram Information

AIA Name	Description	Line Style	Color
T-DIAG-GRPH	Graphics, gridlines, non-text items	V	V
T-DIAG-IDEN	Identifier tags, symbol modifier and text	0	Y/2
T-DIAG-INPD	Inch-pound-specific dimensions and notes	0	Y/2
T-DIAG-METR	Metric-specific dimensions and notes	0	Y/2

DISC - Other Discipline Information

AIA Name	Description	Line Style	Color
T-DISC-INFO	Information and notes for other disciplines	V	V

EQPM - Equipment

AIA Name	Description	Line Style	Color
T-EQPM-COMB	Distribution equipment for both copper and fiber optics	0	C/4
T-EQPM-COPP	Distribution equipment for copper	0	C/4
T-EQPM-FIBR	Distribution equipment for fiber optic	0	C/4
T-EQPM-OTHR	Other telecommunications equipment	0	C/4
T-EQPM-RELA	Relays, resistors, capacitors, and inducers	0	C/4

FLOR - Floor Information

AIA Name	Description	Line Style	Color
T-FLOR-IDEN	Room name, space identification text (copied from Architectural - Floor Plan model file)	0	G/3
T-FLOR-NUMB	Room/space identification number and symbol (copied from Architectural - Floor Plan model file)	0	G/3

JACK - Jacks

AIA Name	Description	Line Style	Color
T-JACK-COMB	Combination telephone and data/LAN jacks	0	203
T-JACK-DATA	Data/LAN jacks	0	203
T-JACK-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
T-JACK-PHON	Telephone jacks	0	203

NURS - Nurse Call / Paging System

AIA Name	Description	Line Style	Color
T-NURS-IDEN	Identifier tags, symbol modifier, and text	0	R/1
T-NURS-SYST	Nurse call system symbols	0	M/6

SOUN - Sound Systems

AIA Name	Description	Line Style	Color
T-SOUN-IDEN	Identifier tags, symbol modifier, and text	0	R/1
T-SOUN-SYST	Sound system symbols	0	M/6

STAT - Demolition (used only in creating Existing Demolition model files)

AIA Name	Description	Line Style	Color
T-STAT-DEMO-PHS1	Demolition - phase 1	0	203
T-STAT-DEMO-PHS2	Demolition - phase 2	0	83
T-STAT-DEMO-PHS3	Demolition - phase 3	0	163

Discipline: V - Survey/Mapping

AERI - Aerial Survey
AIRF - Airfield
ALGN - Alignments
ANNO - General Information
BCNS - Beacons
BLDG - Buildings
CATH - Cathodic Protection System
CHAN - Channels (waterway)
CIRC - Circuits
COMM - Communications
DOMW - Domestic Water
DUCT - Underground Duct Bank (to be used when multiple systems are in one ductbank system)
ELEC - Electrical Support Equipment
FUEL - Liquid Fuel
GRAD - Grade Linework
GRID - Grid Lines
GTHP - Geothermal Heat Pump System
HTCW - HTCW Utilities
INDW - Industrial Waste Water
LITE - Lights
NGAS - Natural Gas
POLE - Utility Poles
PRIM - Primary Electrical Cables
PROF - Profile
PROP - Property
PVMT - Pavements/Transportation
SECD - Secondary Electrical Cables
SECT - Sections
SITE - Site
SPCL - Special Systems
SSWR - Sanitary Sewer
STAT - Demolition (used only in creating Existing Demolition model files)
STRC - Structures
STRM - Storm Sewer
SURV - Survey Lines
TOPO - Topography
TRAN - Transformers
UTIL - Utilities

Discipline: V - Survey/Mapping

AERI - Aerial Survey

AIA Name	Description	Line Style	Color
V-AERI-BNDY	Aerial photography boundaries	0	M/6
V-AERI-INDX	Aerial photo index	0	W/7
V-AERI-PATH	Aerial flight lines/paths	11	22

AIRF - Airfield

AIA Name	Description	Line Style	Color
V-AIRF-DEVC	Capacitors, voltage regulators, motors, buses, generators, meters, grounds, and markers	0	M/6
V-AIRF-DUCT	Ductbanks	0	G/3
V-AIRF-JBOX	Junction boxes, pull boxes, manholes, handholes, pedestals, splices	0	R/1

ALGN - Alignments

AIA Name	Description	Line Style	Color
V-ALGN-DATA	Alignment coordinates and curve data	0	G/3
V-ALGN-LINE	Alignments	4	Y/2
V-ALGN-MARK	Alignment tick marks	0	G/3
V-ALGN-STAT	Alignment stationing and tick marks	0	G/3

ANNO - General Information

AIA Name	Description	Line Style	Color
V-ANNO-DIMS	Witness/extension lines, dimension terminators, dimension text	0	V
V-ANNO-KEYN	Reference keynotes with associated leaders	0	V
V-ANNO-LEGN	Legend & Schedule	0	V
V-ANNO-NOTE	General notes and general remarks	0	Y/2
V-ANNO-NPLT	Non-plotting graphic information	V	B/5
V-ANNO-PATT	Miscellaneous patterning and hatching	0	V
V-ANNO-REDL	Redlines	0	R/1
V-ANNO-REFR	Reference files	NA	NA
V-ANNO-REVS	Revisions	0	C/4
V-ANNO-SYMB	Miscellaneous symbols	V	M/6
V-ANNO-TEXT	Miscellaneous text and callouts with associated leaders	0	V

BCNS - Beacons

AIA Name	Description	Line Style	Color
V-BCNS-IDEN	Identifier tags, symbol modifier, and text	0	M/6
V-BCNS-MISC	Miscellaneous navaids - windcones and beacons	0	M/6
V-BCNS-STRB	Strobe beacons	0	M/6

BLDG - Buildings

AIA Name	Description	Line Style	Color
V-BLDG-IDEN	Building and other structure annotation	0	Y/2
V-BLDG-OTLN	Buildings and other structures	0	W/7

CATH - Cathodic Protection System

AIA Name	Description	Line Style	Color
V-CATH-ANOD	Sacrificial anode system	0	161
V-CATH-CURR	Impress current system	0	161
V-CATH-IDEN	Identifier tags, symbol modifier, and text	0	161
V-CATH-TEST	Test stations	0	161

CHAN - Channels (waterway)

AIA Name	Description	Line Style	Color
V-CHAN-AIDS	Navigation aids and text	0	Y/2
V-CHAN-CNTR	Channel centerline and survey report lines	4	B/5
V-CHAN-CNTR-IDEN	Channel centerline and survey report lines - annotation	0	B/5
V-CHAN-DACL	De-authorized channel limits, anchorages, etc.	0	G/3
V-CHAN-DACL-IDEN	De-authorized channel limits, anchorages, etc. - annotation	0	G/3
V-CHAN-IDEN	Channel limits, anchorages, turning basins, disposal areas, etc. - annotation	0	M/6
V-CHAN-LIMT	Channel limits, anchorages, turning basins, disposal areas, etc.	0	M/6

CIRC - Circuits

AIA Name	Description	Line Style	Color
V-CIRC-CTRL	Control and monitoring circuits	0	12
V-CIRC-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
V-CIRC-MULT	Multiple circuits	0	22
V-CIRC-SERS	Series circuits	0	82

COMM - Communications

AIA Name	Description	Line Style	Color
V-COMM-EQPM	Other communications distribution equipment	0	21
V-COMM-JBOX	Communication junction boxes, pull boxes, manholes, handholes, pedestals, splices	0	21
V-COMM-OVHD	Overhead communications/telephone lines	COMARX	81
V-COMM-OVHD-IDEN	Identifier tags, symbol modifier and text	0	81
V-COMM-UNDR	Underground communications/telephone lines	COMUGX	81
V-COMM-UNDR-IDEN	Identifier tags, symbol modifier and text	0	81
V-COMM-VALT	Communications vault	0	21

DOMW - Domestic Water

AIA Name	Description	Line Style	Color
V-DOMW-ABND	Abandoned piping	2	M/6
V-DOMW-DEVC	Connectors, faucets, reducers, regulators, vents, intake points, tanks, taps, backflow preventers, and valves	0	M/6
V-DOMW-FIRE	Fire lines	FIRE	R/1
V-DOMW-FTTG	Caps, cleanouts, crosses, and tees	0	M/6
V-DOMW-HYDR	Hydrants	0	R/1
V-DOMW-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
V-DOMW-MAIN	Main domestic water piping	WATRX	M/6
V-DOMW-METR	Meters	0	G/3
V-DOMW-NHYD	Non-potable hydrants/flushing hydrants	0	R/1
V-DOMW-NPOT	Non-potable water piping	NONPOT	M/6
V-DOMW-PITS-IDEN	Identifier tags, symbol modifier, and text	0	R/1
V-DOMW-PUMP	Booster pump stations	0	M/6
V-DOMW-REDC	Pressure reducing stations	0	M/6
V-DOMW-RSVR	Reservoirs	0	R/1
V-DOMW-RSVR-IDEN	Identifier tags, symbol modifier, and text	0	R/1
V-DOMW-SERV	Domestic water service piping	0	M/6
V-DOMW-SIGN	Surface markers/signs	0	R/1

V-DOMW-STNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
V-DOMW-TANK	Water storage tanks	0	R/1
V-DOMW-VENT	Vent pits	0	G/3
V-DOMW-VLVE	Valve pits/vaults	0	G/3
V-DOMW-WELL	Water well houses	0	R/1

DUCT - Underground Duct Bank (to be used when multiple systems are in one ductbank system)

AIA Name	Description	Line Style	Color
V-DUCT-MULT	Ductbank	EUDUCX	201
V-DUCT-MULT-IDEN	Identifier tags, symbol modifier and text	0	201

ELEC - Electrical Support Equipment

AIA Name	Description	Line Style	Color
V-ELEC-DEVC	Capacitors, voltage regulators, motors, buses, generators, meters, grounds, and markers	0	21
V-ELEC-JBOX	Junction boxes, pull boxes, manholes, handholes, pedestals, splices	0	21
V-ELEC-SUBS	Other substation equipment	0	21
V-ELEC-SWCH	Fuse cutouts, pole mounted switches, circuit breakers, gang operated disconnects, reclosers, cubicle switches	0	21
V-ELEC-VALT	Vaults	0	21

FUEL - Liquid Fuel

AIA Name	Description	Line Style	Color
V-FUEL-ABND	Abandoned piping	2	M/6
V-FUEL-DEFL	Defueling piping	0	M/6
V-FUEL-DEVC	Air eliminators, filter strainers, hydrant fill points, line vents, markers, oil/water separators, reducers, regulators, and valves	0	M/6
V-FUEL-FLOW	Flow direction arrows	0	M/6
V-FUEL-FTTG	Caps, crosses, and tees	0	M/6
V-FUEL-HYDR	Hydrant control pits	0	G/3
V-FUEL-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
V-FUEL-JBOX	Junction boxes, manholes, handholes, test boxes	0	R/1
V-FUEL-MAIN	Main fuel piping	LIQPET	M/6
V-FUEL-METR	Meters	0	G/3
V-FUEL-PITS-IDEN	Identifier tags, symbol modifier, and text	0	R/1
V-FUEL-PUMP	Booster pump stations	0	M/6
V-FUEL-SERV	Service piping	0	M/6
V-FUEL-STNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
V-FUEL-TANK	Fuel tanks	0	G/3
V-FUEL-TRCH	Fuel line trench	0	G/3
V-FUEL-VENT	Vent pits	0	G/3
V-FUEL-VLVE	Valve pits	0	G/3

GRAD - Grade Linework

AIA Name	Description	Line Style	Color
V-GRAD-EXST	Existing grade, ground line	3	M/6
V-GRAD-FNSH	Finished grade	0	C/4

GRID - Grid Lines

AIA Name	Description	Line Style	Color
V-GRID-FRAM	Frame	0	C/4
V-GRID-MAJR	Major grid lines	0	R/1
V-GRID-MINR	Minor grid lines	1	Gr/8
V-GRID-TEXT	Border text, annotation	0	Y/2

GTHP - Geothermal Heat Pump System

AIA Name	Description	Line Style	Color
V-GTHP-EQPM	Equipment	0	M/6
V-GTHP-PIPE	Piping (includes fittings, valves)	0	M/6

HTCW - HTCW Utilities

AIA Name	Description	Line Style	Color
V-HTCW-ABND	Abandoned piping	2	M/6
V-HTCW-CHLL	Main chilled water piping	0	M/6
V-HTCW-CHLP	Chilled water plant	0	M/6
V-HTCW-CHLS	Chilled water service piping	0	G/3
V-HTCW-DEVC	Rigid anchors, anchor guides, rectifiers, reducers, markers, meters, pumps, regulators, tanks, and valves	0	M/6
V-HTCW-FLOW	Flow direction arrows	0	G/3
V-HTCW-FTTG	Caps and flanges	0	M/6
V-HTCW-HTPL	Main high temperature piping	0	R/1
V-HTCW-HTPP	High temperature water plant	0	M/6
V-HTCW-HTPS	High temperature service piping	0	G/3
V-HTCW-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
V-HTCW-JBOX	Junction boxes, manholes, handholes, test boxes	0	R/1
V-HTCW-LTPL	Main low temperature piping	0	Y/2
V-HTCW-LTPS	Low temperature service piping	0	G/3

V-HTCW-PITS	Valve pits/vaults, steam pits	0	G/3
V-HTCW-PLNT-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
V-HTCW-PUMP	Pump stations	0	M/6
V-HTCW-RTRN	Return for all HTCW lines	0	B/5
V-HTCW-STML	Main steam piping	0	R/1
V-HTCW-STMS	Steam service piping	0	G/3
V-HTCW-STNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2

INDW - Industrial Waste Water

AIA Name	Description	Line Style	Color
V-INDW-ABND	Abandoned piping	2	M/6
V-INDW-DEVC	Grit chambers, meters, flumes, neutralizers, oil/water separators, ejectors, tanks, and valves	0	M/6
V-INDW-FLOW	Flow direction arrows	0	M/6
V-INDW-FTTG	Caps and cleanouts	0	M/6
V-INDW-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
V-INDW-JBOX	Junction boxes and manholes	0	R/1
V-INDW-LAGN	Lagoons	0	M/6
V-INDW-LIFT	Lift stations	0	M/6
V-INDW-MAIN	Main industrial waste water piping	IWASTE	M/6
V-INDW-PLNT	Treatment plants	0	M/6
V-INDW-RSVR-IDEN	Identifier tags, symbol modifier, and text	0	M/6
V-INDW-SERV	Industrial waste water service piping	0	R/1
V-INDW-SIGN	Surface markers/signs	0	R/1
V-INDW-STNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2

LITE - Lights

AIA Name	Description	Line Style	Color
V-LITE-APPR	Approach lights	0	M/6
V-LITE-DIST	Distance and arresting gear markers	0	M/6
V-LITE-FIXT	Exterior Lights	0	121
V-LITE-FIXT-IDEN	Identifier tags, symbol modifier, and text	0	121
V-LITE-LANE	Hoverlane, taxilane, and helipad lights	0	M/6
V-LITE-OBST	Obstruction lights	0	Y/2
V-LITE-RUNW	Runway lights	0	M/6
V-LITE-RUNW-CNTL	Runway Centerline lights	0	M/6
V-LITE-RUNW-TDZN	Runway Touchdown Zone lights	0	M/6
V-LITE-SIGN	Taxiway guidance signs	0	M/6
V-LITE-TAXI	Taxiway lights	0	M/6
V-LITE-THRS	Threshold lights	0	M/6

NGAS - Natural Gas

AIA Name	Description	Line Style	Color
V-NGAS-ABND	Abandoned piping	2	M/6
V-NGAS-DEVC	Hydrant fill points, lights, vents, markers, rectifiers, reducers, regulators, sources, tanks, drip pots, taps, and valves	0	M/6
V-NGAS-DEVC-IDEN	Identifier tags, symbol modifier, and text	0	M/6
V-NGAS-FLOW	Flow direction arrows	0	M/6
V-NGAS-FTTG	Caps, crosses, and tees	0	M/6
V-NGAS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
V-NGAS-MAIN	Main natural gas piping	NTGASX	M/6
V-NGAS-METR	Meters	0	G/3
V-NGAS-PITS-IDEN	Identifier tags, symbol modifier, and text	0	R/1
V-NGAS-PUMP	Compressor stations	0	M/6
V-NGAS-REDC	Reducing stations	0	M/6
V-NGAS-SERV	Service piping	0	R/1

V-NGAS-SIGN	Surface markers/signs	0	R/1
V-NGAS-STNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
V-NGAS-VENT	Vent pits	0	G/3
V-NGAS-VLVE	Valve pits/boxes	0	G/3

POLE - Utility Poles

AIA Name	Description	Line Style	Color
V-POLE-GUYS	Guying equipment	0	G/3
V-POLE-GUYS-IDEN	Guying equipment identifier tags, symbol modifiers, and text	0	G/3
V-POLE-IDEN	Utility pole identifier tags, symbol modifier, and text	0	G/3
V-POLE-UTIL	Utility poles	0	G/3

PRIM - Primary Electrical Cables

AIA Name	Description	Line Style	Color
V-PRIM-OVHD	Overhead electrical utility lines	EPARX	R/1
V-PRIM-OVHD-IDEN	Identifier tags, symbol modifier, and text	0	R/1
V-PRIM-UNDR	Underground electrical utility lines	EPUGX	R/1
V-PRIM-UNDR-IDEN	Identifier tags, symbol modifier, and text	0	R/1

PROF - Profile

AIA Name	Description	Line Style	Color
V-PROF-CUID	Existing grade and grading cuts - annotation	0	R/1
V-PROF-FILL	New work, grading fills	0	G/3
V-PROF-INLT	Curb and surface inlets, catch basins	0	G/3
V-PROF-MHOL	Manholes	0	R/1
V-PROF-PIPE	Piping	0	M/6
V-PROF-ROAD	Roads	0	Y/2

PROP - Property

AIA Name	Description	Line Style	Color
V-PROP-BRNG	Bearings and distance labels	0	M/6
V-PROP-CNTY	County Boundary	11	M/6
V-PROP-ESMT	Government easements/property lines	0	C/4
V-PROP-IDEN	Property annotation	0	M/6
V-PROP-LEAS	Lease line (surveyed)	0	M/6
V-PROP-LINE	Property lines (Existing recorded plats)	3	Y/2
V-PROP-LUSE	Land Use Area	11	M/6
V-PROP-MUNI	Municipal Boundary	11	M/6
V-PROP-QTRS	Quarter lines	11	M/6
V-PROP-RWAY	Right of ways	RTOFWY	W/7
V-PROP-SECT	Section lines	7	M/6
V-PROP-STAT	State Boundary	11	M/6
V-PROP-SXTS	Sixteenth lines (40 lines)	16THLN	M/6
V-PROP-ZONG	Zoning Areas	11	M/6

PVMT - Pavements/Transportation

AIA Name	Description	Line Style	Color
V-PVMT-IDEN	Road, parking lot, railroad, airfield pavement annotation	0	Y/2
V-PVMT-MRKG	Pavement markings	0	Y/2
V-PVMT-PATT	Joint patterns, text and dimensions	0	V
V-PVMT-ROAD	Roads, parking lots, railroads, airfield pavements	0, RAILS	Y/2

SECD - Secondary Electrical Cables

AIA Name	Description	Line Style	Color
V-SECD-OVHD	Overhead electrical utility lines	ESARX	61
V-SECD-OVHD-IDEN	Identifier tags, symbol modifier, and text	0	61
V-SECD-UNDR	Underground electrical utility lines	ESUGX	61
V-SECD-UNDR-IDEN	Identifier tags, symbol modifier, and text	0	61

SECT - Sections

AIA Name	Description	Line Style	Color
V-SECT-IDEN	Component identification numbers	0	Y/2
V-SECT-MBND	Material beyond section cut	0	B/5
V-SECT-MCUT	Material cut by section	0	C/4
V-SECT-PATT	Textures and hatch patterns	0	V

SITE - Site

AIA Name	Description	Line Style	Color
V-SITE-EROS	Riprap, revetments/stone protection, breakwaters, dikes, jetties, and drains	0	R/1
V-SITE-EWAT	Water features	0	162
V-SITE-FENC	Fences and handrails	0, FENCE	M/6
V-SITE-FENC-IDEN	Fence, handrail, ramp, and trail annotation	0	M/6
V-SITE-IDEN	Existing site feature/structure annotation	0	M/6
V-SITE-OTLN	Existing site features (play structures, bike racks, benches, recreational equipment)	0	C/4
V-SITE-STRC	Structures (bridges, sheds, foundation pads, footings, etc.)	0	22
V-SITE-STRS	Stairs and ramps	0	M/6
V-SITE-VEGE	Existing treelines and vegetation	0, TREEL	82
V-SITE-WALK	Walks, trails, and bicycle paths	0	Y/2
V-SITE-WATR	Water features	0	162

SPCL - Special Systems

AIA Name	Description	Line Style	Color
V-SPCL-IDEN	Special systems (UMCS, EMCS, CATV, etc.) identifier tags, symbol modifier, and text	0	151
V-SPCL-SYST	Special systems (UMCS, EMCS, CATV, etc.)	0	151
V-SPCL-TRAF	Traffic signal system	0	151
V-SPCL-TRAF-IDEN	Traffic signal identifier tags, symbol modifier, and text	0	151

SSWR - Sanitary Sewer

AIA Name	Description	Line Style	Color
V-SSWR-ABND	Abandoned piping	2	M/6
V-SSWR-DEVC	Grease traps, grit chambers, flumes, neutralizers, oil/water separators, ejectors, and valves	0	M/6
V-SSWR-DEVC-IDEN	Identifier tags, symbol modifier, and text	0	M/6
V-SSWR-FILT	Filtration beds	0	G/3
V-SSWR-FILT-IDEN	Identifier tags, symbol modifier, and text	0	G/3
V-SSWR-FLOW	Flow direction arrows	0	M/6
V-SSWR-FTTG	Caps and cleanouts	0	M/6
V-SSWR-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
V-SSWR-JBOX	Junction boxes and manholes	0	R/1
V-SSWR-JBOX-IDEN	Identifier tags, symbol modifier, and text	0	R/1
V-SSWR-LAGN	Lagoons	0	G/3
V-SSWR-LEAC	Leach field	0	G/3
V-SSWR-MAIN	Sanitary sewer piping	SSWAFX	M/6
V-SSWR-NITF	Nitrification drain fields	0	G/3
V-SSWR-PLNT	Treatment plants	0	M/6
V-SSWR-PUMP	Booster pump stations	0	M/6
V-SSWR-RSVR-IDEN	Identifier tags, symbol modifier, and text	0	G/3
V-SSWR-SERV	Sanitary sewer service piping	0	R/1
V-SSWR-SIGN	Surface markers/signs	0	R/1
V-SSWR-STNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
V-SSWR-TANK	Septic tanks	0	G/3

STAT - Demolition (used only in creating Existing Demolition model files)

AIA Name	Description	Line Style	Color
V-STAT-DEMO	Demolition (Note: comprehensive demolition is handled in Model File Type: Demolition Plan)	2	M/6
V-STAT-EXST	Existing to remain	0	G/3
V-STAT-FUTR	Future work	7	Y/2
V-STAT-MOVE	Items to be moved	6	M/6
V-STAT-NEWW	New work	0	C/4
V-STAT-NICN	Not in contract	3	Gr/8
V-STAT-PHS#	Phase numbers (#=1-9)	0	Y/2
V-STAT-RELO	Relocated items	2	B/5
V-STAT-TEMP	Temporary work	4	C/4

STRC - Structures

AIA Name	Description	Line Style	Color
V-STRC-IDEN	Bridges, piers, breakwaters, docks, floats, etc. - annotation	0	Y/2
V-STRC-OTLN	Bridges, piers, breakwaters, docks, floats, etc. - outlines	0	C/4
V-STRC-TOWR	Tower	0	C/4

STRM - Storm Sewer

AIA Name	Description	Line Style	Color
V-STRM-ABND	Abandoned piping	2	M/6
V-STRM-AFFF	AFFF lagoon/detention pond	0	G/3
V-STRM-CHUT	Chutes and concrete erosion control structures	0	R/1
V-STRM-CULV	Culverts	0	G/3
V-STRM-DEVC	Downspouts, flumes, oil/water separators, and flap gates	0	M/6
V-STRM-DRAN-IDEN	Identifier tags, symbol modifier, and text	0	G/3
V-STRM-EROS	Erosion control (riprap)	0	B/5

V-STRM-FLOW	Flow direction arrows	0	M/6
V-STRM-FMON	Flow monitoring station	0	M/6
V-STRM-FTTG	Caps and cleanouts	0	M/6
V-STRM-HDWL	Headwalls and endwalls	0	W/7
V-STRM-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
V-STRM-INLT	Inlets (curb, surface, and catch basins)	0	G/3
V-STRM-LAGN	Lagoons, ponds, watersheds, and basins	0	G/3
V-STRM-MAIN	Storm sewer piping	STRAFX	M/6
V-STRM-MHOL	Manholes	0	R/1
V-STRM-PUMP	Pump stations	0	M/6
V-STRM-ROOF	Roof drain line	0	G/3
V-STRM-RSVR-IDEN	Identifier tags, symbol modifier, and text	0	G/3
V-STRM-SERV	Storm sewer service piping	0	R/1
V-STRM-SIGN	Surface markers/signs	0	R/1
V-STRM-STNS-IDEN	Identifier tags, symbol modifier, and text	0	Y/2
V-STRM-SUBS	Subsurface drain piping	0	G/3

SURV - Survey Lines

AIA Name	Description	Line Style	Color
V-SURV-DATA	Survey data (benchmarks and horizontal control points or monuments)	0	M/6
V-SURV-IDEN	Survey, baseline, and control line annotation	0	M/6
V-SURV-LINE	Survey, baseline, and control line	2	C/4

TOPO - Topography

AIA Name	Description	Line Style	Color
V-TOPO-BKLN	Breaklines	4	W/7
V-TOPO-BORE	Boring locations	0	M/6
V-TOPO-COOR	Coordinate grid ticks and text	0	122
V-TOPO-DTCH	Ditches and swales	0, DITCH	G/3
V-TOPO-DTMP	DTM points	0	M/6
V-TOPO-DTMT	DTM triangles	0	22
V-TOPO-MAJR	Major contours	0	Y/2
V-TOPO-MAJR-IDEN	Major contours - annotation	0	Y/2
V-TOPO-MINR	Minor contours	0	G/3
V-TOPO-MINR-IDEN	Minor contours - annotation	0	G/3
V-TOPO-SHOR	Shorelines, land features, and references	0	C/4
V-TOPO-SLOP-TOPT	Top/toe slopes	0	M/6
V-TOPO-SOUN	Soundings	0	V
V-TOPO-SPEC	Species Site	0	Y/2
V-TOPO-SPOT	Spot elevations	0	Y/2
V-TOPO-WETL	Wetland	0	Y/2

TRAN - Transformers

AIA Name	Description	Line Style	Color
V-TRAN-PADM	Pad mounted transformers	0	21
V-TRAN-PADM-IDEN	Identifier tags, symbol modifier, and text	0	21
V-TRAN-POLE	Pole mounted transformers	0	21
V-TRAN-POLE-IDEN	Identifier tags, symbol modifier, and text	0	21

UTIL - Utilities

AIA Name	Description	Line Style	Color
V-UTIL-ELEC	Power lines, lights, telephone poles, communication lines	0, COMARX, COMUGX, EPARX, EPUGX, ESARX, ESUGX	C/4
V-UTIL-ELEC-IDEN	Power/communication annotation	0	Y/2
V-UTIL-IDEN	Utility annotation	0	Y/2
V-UTIL-LINE	Utilities	V	C/4
V-UTIL-NGAS	Gas lines, features, and valves	0, NTGASX	C/4
V-UTIL-NGAS-IDEN	Gas annotation	0	Y/2
V-UTIL-SSWR	Sanitary lines and manholes	0, SSWAFX	C/4
V-UTIL-SSWR-IDEN	Sanitary annotation	0	Y/2
V-UTIL-STEM	Steam lines and annotation	0	Y/2
V-UTIL-STRM	Storm sewer lines, culverts, manholes, and headwalls	0, STRAFX, CULVRT	C/4
V-UTIL-STRM-IDEN	Storm sewer annotation	0	Y/2
V-UTIL-WATR	Water lines, hydrants, tanks	0, WATRX	C/4
V-UTIL-WATR-IDEN	Water annotation	0	Y/2

Exhibit C

SJC NOTICE OF WORK

Project:
Title of Work:

Type of Notice: ☐ AOA ☐ Sterile ☐ Non-Secure ☐ Security Addendum
☐ Information Only ☐ Curbside Parking

Work to be Done for: ☐ Tenant ☐ Airport

Contactor Information:	**Tenant Information:**
Company Name: _____	Tenant Name: _____
Company Address: _____	Tenant Contact: _____
_____	Tenant Contact #: _____
_____	
Company Contact: _____	
Company Contact #: _____	

Date of Work:

Start Date: _____ Start Time: _____
End Date: _____ End Time: _____

Detailed Location of Work:	**Detailed Description of Work:**

Parking:

Parking Location: _____
Max No. of Vehicles: _____

Hot Work: ☐ Yes ☐ No *If yes attach Hot Work Permit

Tools:

Contractor Badge Type: ☐ SIDA ☐NON-SIDA ☐SIDA NON-SECURE ☐ NO BADGE
Escort Privileges: ☐ Yes ☐ No

Exhibit D

SJC HOT WORK PERMIT

THIS PERMIT MUST BE POSTED AT SITE OF HOT WORK OPERATIONS

HOT WORK OPERATOR TO COMPLETE:

					Pre ☑
Print Name					
Contact Number:		**Firm**			☐
Date: of Hot Work	**Est. Start Time:**	**AM PM**	**Est. Finish Time:**	**AM PM**	☐
Building:					☐
Location:					☐
					☐
Description of Hot Work:					☐
					☐

Permit Checklist	Post ☑
Flammable and combustible materials within a 35-foot radius of hot work have been removed or covered with fire retardant tarps or shields.	☐
All floors and surfaces within a 35-foot radius of the hot work have been swept free of combustible dust or debris.	☐
Any openings or cracks in the walls, floors, or ducts that are potential travel for sparks, heat, flames and smoke have been covered.	☐
An operable and appropriate fire extinguisher is available and accessible at the hot work area.	☐
Sprinkler heads that could be activated by hot work have been covered and protected.	☐
Smoke and heat detectors in the area of hot work have been covered to prevent false alarms.	☐
A Fire Watch has been posted during hot work operations and for **60 minutes** after hot work has been completed.	☐

I verify the above location has been examined and the precautions checked on the Permit Checklist will be taken to prevent fire.

Signed (Hot Work Operator): _____ DATE: _____

Date:	**Actual Start Time:**	**AM PM**		**TO BE COMPLETED POST HOT WORK**	**Actual Finish Time:**	**AM PM**	

FIRE WATCH TO COMPLETE:

Print Name _____ Print Name: _____

Local / Site Fire Watch — Building Fire Watch (if applicable)

Date:	**Actual Start Time:**	**AM PM**	**Actual Finish Time:**	**AM PM**	

FIRE WATCH SIGNOFF:

Hot work site was monitored for **60 minutes** following Hot Work and found fire safe.

Signed: _____ Signed: _____

Local / Site Fire Watch — Building Fire Watch (if applicable)

Upon completion of hot work and final fire check, return this permit to the PAI for cancellation

AUTHORIZATION: The information on this permit has been evaluated and permission is authorized for this hot work.

Signed: _____

Permit Authorizing Individual

PERMIT EXPIRES	**DATE**	**TIME**

IN CASE OF AN EMERGENCY, CALL (408) 277-8911

Revised 12/2018

Exhibit E

Mineta San Jose International Airport

Communication & Data Circuit Notice Form

It is recommended that prior to ordering any internet services, you contact Airport Technology Services at 408-392-1180 to discuss what services can be delivered at your location.
In an effort to manage resources and insure that tenants get service in a timely manner from their elected carrier, the Airport requires this form to be filled out and emailed to AirportTelecomHelpdesk@sjc.org prior to the installation date.

TENANT FILLS OUT

PLEASE PRINT CLEARLY AND FILL IN ALL THAT APPLY TO INSURE THAT COMMUNICATION SERVICES ARE DELIVERED TO THE CORRECT LOCATION ON THE PROMISED DUE DATE.

Request date				
Tenant/Company Name				
Physical address & room number				
Tenant Computer Vendor if applicable				
Contact name				
Contact phone/Email	Phone		Email	

DESCRIPTION OF WORK Describe existing use, proposed use and reason for the work. ☐ *More info attached.*

Service Provider				
Service Order Number				
Due Date				
Type of Service (Description of Work) POTS, DSL, T1, ASE.				
Circuit number				
The tenant is responsible for providing the last leg of copper or fiber from the closest IDF to their leased space in order to extend the circuits. Is that installed?	☐	Yes	☐	No
Require Layer 2 VLAN?	☐	Yes	☐	No
If Yes, how many ports?				

INCLUDED IN OUR SERVICE IS EASE, CUSS, A LAYER 2 VLAN AND Back Office

Require more than one Internet Connection?	☐	Yes	☐	No
If Yes, how many?				

Note: If scope of work changes, then applicant must re-apply.

TENANT CONTACT SIGNATURE_____ **DATE** _____

Submit original of this application and attachments to:

Shared Tenant Services (STS) that are available to include:
Phone and voicemail services provided through a Cisco Call Manager Unity Systems
Layer 2 VLANs that allow networking throughout the Airport without the expense of wiring a mesh of wire.

The tenant is responsible for providing the last leg of copper or fiber from the closest IDF to their leased space in order to extend the circuits. Is that installed?