



# ARCHITECTURAL STANDARDS MANUAL

Seattle-Tacoma International Airport

September 2003  
Revised December 2008



# CONTENTS

## I. Introduction

A. Overview .....	I - 1
B. Purpose of the Architectural Standards .....	I - 4

## II. Administration

A. Administration .....	II - 1
B. Ownership of Improvements .....	II - 4
C. Organization and Use of the Document.....	II - 4
D. Coordination with Other Standards.....	II - 6
E. Relationship to Other Programs.....	II - 6

## III. Project Review and Approvals Process

A. Review Process .....	III - 1
B. Review Schedule .....	III - 2
C. Variance Process .....	III - 2
D. Selection Criteria.....	III - 2
E. Applicable Codes .....	III - 4

## IV. Architectural Standards

A. Definition of Terminal Public Areas.....	IV - 1
B. Terminal Public Area Floor Plans and Photographs.....	IV - 3
C. Index of Materials/Finishes by Terminal Area.....	IV - 40
1. Pedestrian Bridges to Parking (Skybridges)	
2. Exterior Curbside - Ticketing Level	
3. Ticket Lobby	
4. Exterior Curbside - Baggage Claim Level	
5. Baggage Claim Lobby	
6. Baggage Claim Halls	
7. Promenade	
8. Esplanade	
9. Mezzanine Level	
10. Central Hall and South Hall (Future)	
11. Concourses A, B, C, and D	
12. North and South Satellites	
13. Satellite Transit System (STS) Stations	
14. International Arrivals, Federal Inspection Services (FIS)	
15. Elevators/Escalators/Moving Walkways	
16. Aircraft Passenger Loading Bridges	

- 17. Casework
- 18. Fixtures, Furnishings, Equipment
- 19. Specialty Items

## V. Materials, Means and Methods

- A. Overview of Format.....V - 1
- B. Extent of Technical Information .....V - 1
- C. Standard Requirements

### Exterior

Superstructure	B10
Floor construction	B1010
Cast-in-place concrete columns	B1010.10
Structural steel columns and bracing	B1010.20
Cast-in-place concrete beams	B1010.30
Structural steel beams	B1010.40
Cast-in-place concrete walls	B1010.50
Concrete masonry units	B1010.60
Exterior Closure	B20
Exterior Walls	B2010
Metal wall panels	B2010.10
Exterior soffits	B2010.20
Exterior louvers, grilles and screens	B2010.30
Exterior metal stairs	B2010.40
Metal railings	B2010.50
Apron lighting poles	B2010.60
Exterior painting	B2010.70
Parapets	B2010.80
Exterior Windows	B2020
Standard exterior windows	B2020.10
Glazed aluminum curtain walls	B2020.20
Structural glass curtain walls	B2020.30
Translucent wall and skylight systems	B2020.40
Glazing	B2020.50
Window hardware and accessories	B2020.60
Exterior Doors	B2030
Public entrance doors and frames	B2030.10
Metal exterior doors and frames	B2030.20
Door hardware	B2030.30
Glazing	B2030.40

Roofing	B30
Roof Coverings	B3010
Membrane roofing	B3010.10
Sheet metal	B3010.20

Roof Openings:	
Skylights	B3020.10

## Interior

Interior Construction	C10
Interior partitions	C1010.10
Railings	C1010.20
Interior grilles	C1010.30
Interior windows	C1010.40
Interior glazed partitions and storefronts	C1010.50

Interior Doors	C1020
Metal interior doors and frames	C1020.10
Plastic interior doors	C1020.20
Door hardware	C1020.30
Door accessories	C1020.40
Glazing	C1020.50

Interior Specialties	C1030
Louvers and vents	C1030.10
Signs	C1030.20
Wall and corner guards	C1030.30
Expansion control	C1030.40
Telephone enclosures	
<i>Refer to Telephone Lease</i>	
Toilet partitions	
<i>Refer to Restroom Design Standards</i>	

Stairways	C20
Interior Stair Finishes	C2020
Terrazzo stair finishes	C2020.10
Resilient stair finishes	C2020.20
Stair railings	C2020.30
Interior stair painting	C2020.40

Interior Finishes	C30
Interior Wall Finishes	C3010
Plastic laminate panels	C3010.10
Wood panels	C3010.20
Metal wall panels	C3010.30
Gypsum board	C3010.40



Tile wall finishes	C3010.50
Stone facing	C3010.60
Acoustical wall treatment	C3010.70
Fiber reinforced plastic coated panels	C3010.80
Interior wall painting	C3010.90
Fabric wall coverings	C3010.100
Column covers	C3010.110
Miscellaneous metal trim	C3010.120
Wall base	C3010.130
Wainscoting	C3010.140
<b>Interior Floor Finishes</b>	<b>C3020</b>
Tile	C3020.10
Terrazzo	C3020.20
Stone flooring	C3020.30
Resilient flooring	C3020.40
Carpet	C3020.50
Slip-resistant finishes	C3020.60
<b>Interior Ceiling Finishes</b>	<b>C3030</b>
Gypsum board	C3030.10
Acoustical tiles	C3030.20
Linear metal ceiling	C3030.30
Metal ceiling panels	C3030.40
<b>Fixtures, Furnishings, and Equipment</b>	
Services and Conveying Systems	D10
Elevators	D10.10
Escalators	D10.20
Moving walks	D10.30
Aircraft passenger loading bridges	D10.40
Baggage claim devices	D10.50
<b>Equipment</b>	<b>E1010</b>
Telephones:	
<i>Refer to Telephone Lease</i>	
Vending machines:	
<i>Refer to Retail Concession Tenant Design Guidelines</i>	
ATM machines:	
<i>Refer to Retail Concession Tenant Design Guidelines</i>	
Lockers:	
<i>Refer to Retail Concession Tenant Design Guidelines</i>	
Baggage carts:	
<i>Refer to Retail Concession Tenant Design Guidelines</i>	
Television monitors:	
<i>Refer to Retail Concession Tenant Design Guidelines</i>	

Unmanned passenger services	E1010.10
Vending Machines	
Newspapers	
Shoe Shine	
Change Machines	
Phone Card Machines	
Baggage Cart Rental	
Baggage Lockers	
Internet Kiosks	
Mailboxes	
Baggage storage units	E1010.20
Fire extinguisher cabinets	E1010.30
Fire hose cabinets	E1010.40
Movable queuing rails	E1010.50
Furnishings	E20
Fixed Furnishings	E2010
Fixed artwork:	
<i>Refer to Art and Exhibit Program</i>	
Fixed casework	E2010.10
Window coverings	E2010.20
Fixed multiple seating	E2010.30
Fixed floor mats	E2010.40
Fixed interior landscape containers	E2010.50
Movable Furnishings	E2020
Movable rugs and mats	E2020.10
Movable multiple seating	E2020.20
Tables	E2020.30
Waste and recycling receptacles	E2020.40
Ash trays	E2020.50
Movable interior landscape containers	E2020.60

## VI. Technical Appendix

A. Variance Request.....	VI - 1
B. Architectural Standards Update Request .....	VI - 2
C. Index of Existing (Non-Standard) Materials and Finishes by Terminal Area	VI - 3
D. Existing Fixtures, Furnishings and Equipment Photographs .....	VI - 16
E. CSI/CSC Unifomat for Building Construction .....	VI - 42
F. Abbreviations and Definitions .....	VI - 47
G. Environmental Criteria and Guidelines.....	VI- 49

## VII. General Index (Alphabetical by Subject)

## **I. INTRODUCTION**

### **A. Overview**

#### **Airport Comprehensive Design Manual**

In the future, the Architectural Standards will become one volume in a series of coordinated and consistent documents known as the Airport Comprehensive Design Manual, which will also include all Seattle-Tacoma International Airport (STIA) comprehensive design guidelines, standards by discipline, and regulatory and project process requirements. Each of the documents will be “living documents” which will be updated periodically over time. The Airport Comprehensive Design Manual will incorporate information needed for the many types of projects that occur at the airport thereby serving as a tool for all consultants. This manual will also be a resource for information related to the maintenance of airport facilities.

Currently, all work must be done in accordance with the STIA Regulations for Airport Construction (RAC). In the case of duplicate product and material information between these Architectural Standards and the RAC, the former shall govern. Design Consultants should refer to the following Document List (Section II Part D), which lists other STIA standards, and verify with their Port of Seattle Project Manager which standards are appropriate, on a project by project basis.

#### **Seattle-Tacoma International Airport Design Guidelines**

The STIA Design Guidelines, completed in August of 1999, outline the overall design vision for the airport as being a “Premier, World Class Airport”. To facilitate this vision, the guidelines cover design strategies, design criteria and design review information. The intent of the STIA Design Guidelines is to provide direction to all project teams involved in the design of facilities within the terminal complex. It is the responsibility of each design team to review and achieve the goals outlined in the STIA Design Guidelines.

#### **Vision and Goals of the Architectural Standards**

##### **General**

As part of the development process, the Architectural Standards Team identified the vision and goals for the document. This was a necessary and primary step in the process of developing architectural standards which will be supportive and will be a definitive part of the future Airport Comprehensive Design Manual. Not only have the vision and goals identified the purpose of the Architectural Standards, but they have

shaped the design of the document and provided criteria to guide decisions for product and material standards.

## Vision

- The Architectural Standards implement the vision of the STIA Design Guidelines and promote a consistent image throughout the public areas of the passenger terminal complex.
- The Architectural Standards require the use of architectural materials and details that provide a durable, cleanable, and repairable environment at a reasonable cost.
- The Architectural Standards require adherence to guidelines that support the Airport's aim to minimize construction's impact on the planet while providing an interior environment that is healthy and comfortable for the public and employees.
- The Architectural Standards have a user-friendly organization and format that clearly communicate design requirements.
- The airport is a Port of Seattle controlled environment and the Architectural Standards guide a creative process resulting in the use of materials that are selected and detailed in consideration of their visual character as well as their maintainability.

## Goals

- The Architectural Standards will clearly indicate types of materials or finishes that shall be used and why they were selected.
- The Architectural Standards will document existing materials to facilitate matching and repairing.
- The Architectural Standards will provide performance information where possible, rather than indicating sole source materials. This will allow a more competitive process during construction and will also allow new products to be considered as older products are discontinued.
- The long-term availability of materials will be an important consideration in developing the Architectural Standards.

## Administration

- The Architectural Standards are maintained and updated by the Aviation Facilities Department.
- The Architectural Standards will be incorporated into the future Airport Comprehensive Design Manual.
- For each project, the Port of Seattle Project Manager is responsible for continuous monitoring to ensure compliance with the Architectural Standards.
- The Port of Seattle Project Team (including the Project Manager, the Facilities Department, and the Sponsor Line of Business) and the Design Review Committee

review projects for compliance with the Architectural Standards and make final decisions regarding the acceptability of any variations from the standards.

## **FAA Requirements**

There are requirements for design of facilities at the airport related to Federal Aviation Administration (FAA) regulations and Advisory Circulars. Design Consultants should contact the Port of Seattle Project Manager early on in the project process to verify restrictions. Any change to the building envelope/enclosure requires the submittal of the FAA Form 7460-1. The Consultant should note means and methods issues related to construction condition restrictions/constraints in the contract documents. FAA documents are updated and changed regularly. Compliance with those guidelines referred to below or in the STIA Design Guidelines should not be considered as acceptance by FAA.

- Notice of Proposed Change or Alteration
  - FAA Form 7460-1: Notice of Proposed Change or Alteration for changes to the building exterior or envelope; including building size, shape, and materials; provide accurate (latitude and longitude) coordinates of all building corners and heights including highest points for modeling purposes; provide information of temporary structures such as construction cranes (type, maximum dimension, duration of existence)
  - AC 70/7460-2K, Proposed Construction or Alteration of Objects that May Affect the Navigable Airspace

Requirements/restrictions include, but are not limited to the following areas:

- Building Envelope Restrictions
  - AC150/5360-13: Airport Design
  - AC150/5360-9: Terminal Planning and Design
  - Part 77: Primary and transitional surfaces
  - United States Standard for Terminal Instrument Procedures – TERPS
- Interference with FAA Electronic Systems
  - False targets related to radar reflectivity and instrument landing systems; building envelope (each structure will be evaluated on a case by case basis relative to reflectivity and location), percentage of glazing, exterior materials, location and size of construction cranes
  - Interference with ground/air radio communications

- Requirements for radar studies; preliminary issues study by the Port of Seattle, FAA analysis
- Height restriction, radar line-of-sight, 470' MSL is a general guideline and not meant to establish a control elevation; each structure must be evaluated on a case by case basis relative to building location
- Airport Traffic Control Tower Sight Lines
  - Tower sight line shadow studies; building envelope, location and size of construction cranes
- Impacts to Airfield Operations
  - Glare affecting pilot vision during aircraft taxiing; exterior glazing and building materials

### **Proprietary Materials and Products**

The Port of Seattle is a public entity, and it prefers to avoid sole source procurement. The Port of Seattle can revert to sole source for reason of standardization with specific justification to resolve operational, maintenance, replacement, and availability issues. Proprietary products can be identified as standard for the airport if they are available from multiple vendors, thus preserving competition for selection. *Reference to a brand standard is not necessarily indicative of specific sole source, as the brand standard may be available from multiple suppliers.*

### **Environmental**

It is the intent of Seattle-Tacoma International Airport to encourage the use of materials and products that are made with local, renewable or recycled resources. To that end, preference will be given to products that contain a high percentage of recycled material and to those that are manufactured and/or resourced from within 500 miles of the Airport. In addition, fabricators and installers are required to utilize means and methods of design, installation, disposal and maintenance that are not only resource efficient but also will minimize the introduction of toxic substances into the interior of the Airport.

Project designers should incorporate design practices and features that promote energy efficiency and conservation. These include considerations relating to solar orientation, thermal insulation, sun-shading devices, fenestration, and daylighting.

## **B. Purpose of the Architectural Standards**

### **Purpose**

The Port of Seattle sets the standard for materials and products throughout all public areas. The intent is that interior and exterior architectural materials, furnishings and equipment will be controlled by the Port of Seattle. This will create a terminal that is

unified and consistent, which is a primary goal of the airport as stated in the STIA Design Guidelines. The Architectural Standards are developed to facilitate and define its achievement.

The Architectural Standards further define the intent of the STIA Design Guidelines. The definition of the guidelines is necessary in order to detail means by which a consistent visual image throughout the public areas of the passenger terminal complex can be achieved. By implementing the Architectural Standards, the Port of Seattle guides a creative process that results in a visual character for the airport terminal that can be maintained over time, and will achieve the desired image of the Seattle-Tacoma International Airport.

The Architectural Standards indicate types of materials, finishes, and products that shall be used and why they were selected. The intent of the Architectural Standards is to utilize architectural materials and details that provide a durable, cleanable, and repairable environment at a reasonable cost. Also, these Standards document existing materials to facilitate any necessary matching and repairing.

## **Approach**

Creating the Architectural Standards was a collaborative and interactive process that followed an approach similar to that used for planning and research. A Standards Core Team was assembled to discuss each element of the process including: identifying the vision and goals for the Architectural Standards, defining the content of the document, data gathering, developing a draft document, reviewing the draft, and developing the final Architectural Standards.

The following process was followed throughout the project. The Standards Core Team met to identify appropriate alternative solutions for issues and design conditions. The alternatives were reviewed at subsequent sessions, decisions made, and direction for succeeding work determined. The team also coordinated the Architectural Standards work with Design Consultants who were concurrently designing terminal development projects.

## **II. Administration**

### **A. Administration**

#### **General**

The Architectural Standards are maintained and updated by the Facilities Department. They will be periodically modified and updated with new information. It is the responsibility of the Design Consultant to verify that he/she has the latest version of all required Port of Seattle documents.

This document operates in conjunction with many others, all of which will become a part of the future Airport Comprehensive Design Manual. Design Consultants should review the document list (Section D) for further information on requirements for each particular project. Also, all projects must proceed in accordance with the STIA Regulations for Airport Construction (RAC), which is available from the Port of Seattle.

#### **Extent of Application**

For a complete listing of airport terminal areas that must comply with the Architectural Standards, refer to Section IV - Paragraph A - Definition of Terminal Public Areas. As a general rule this Standard covers visible architectural elements within public areas. Depending on the nature of the project, some may be required to match the existing materials and conditions in lieu of complying with the Architectural Standards (verify with the Port of Seattle Project Manager).

The Architectural Standards cover all new and existing materials that have been chosen to become a Seattle-Tacoma International Airport standard. Any existing material that is not standard, but may need to be referenced for use in small projects, is included in the Technical Appendix, Section VI.

There are numerous other STIA standards and guidelines which provide information and requirements for architectural materials at restrooms, signage, non-public areas, and offices. The Architectural Standard is set up for public spaces only; other areas are covered in separate standards; see following document list, Section D, for coordination with other standards.

This Architectural Standard does not govern the following areas that are covered in separate manuals (see following document list):

- Restrooms
- Retail/concessions



- Environmental graphic display, EGD (including advertising graphics)
- Roadway and garage signage
- Terminal signage
- Parking garage
- Port offices and maintenance facilities
- Non-public Tenant spaces

## **Procedures for Administration**

The following summarizes the procedures for administration of the Architectural Standards and describes and defines groups (Owner, User, Maintainer) and their responsibilities:

### **Responsibility of the Owner**

The Owners of the Architectural Standards are the Port of Seattle Air Terminal Line of Business and the Aviation Facilities Department. They are responsible for the successful implementation and long-term application of the Architectural Standards. They are ultimately accountable for the development, application, and enforcement of this document. Their responsibilities include:

- Obtaining input from and identifying needs of the airport terminal environment from the public, tenants, and employees.
- Establishing the level of quality for finishes that meet the expectations of the public, tenants, and employees.
- Providing information for updating and revising the Architectural Standards to reflect changing needs of the airport terminal environment.
- Providing feedback to Users on issues that affect the Architectural Standards.
- Reviewing the Architectural Standards periodically for conformance with the above.

### **Responsibility of the User**

The Users of the Architectural Standards are Aviation Administration, Aviation Project Management Group, Design Consultants, and Aviation Facilities Maintenance. They rely on the Architectural Standards as a basis for design and construction of projects that meet the vision and goals of Seattle-Tacoma International Airport. Their responsibilities include:

- Verifying that they have received the latest version of Architectural Standards.
- Becoming familiar with, and meeting the intent of the STIA Design Guidelines.
- Becoming familiar with, and conforming to the Architectural Standards.
- Using good judgment in the application of the Architectural Standards to the project.

- Requesting Owner approval of a material or product that varies from the Architectural Standards (using the Variance Request) if it is necessary because of specific conditions.
- Abiding by the requirements of the Architectural Standards without sacrificing creative and innovative solutions.
- Providing feedback to the Owner on the use of the Architectural Standards.
- Coordinating work with other applicable STIA standards and regulations.
- Presenting designs for selected projects to the Design Review Committee.

#### Responsibility of the Maintainer

The Maintainer of the Architectural Standards is the Aviation Facilities Department. They have the responsibility of updating of the document. Their responsibilities include:

- Keeping the Architectural Standards up-to-date with the latest revisions.
- Obtaining the latest information from the field concerning the adequacy of the Architectural Standards.
- Alerting the Owner and User to the need for revisions to the Architectural Standards that reflect constructed and operational conditions.
- Implementing and enforcing the use of the Architectural Standards.

#### Procedures for Use

The following summarizes the procedures for use of the Architectural Standards:

- The requirement to comply with the Architectural Standards is part of the required project information identified in the Request for Qualifications advertising work as part of the Design Consultant selection process.
- The Architectural Standards are part of the required project information transmitted to design consultants at the beginning of a project.
- The Port of Seattle Project Manager is responsible for providing the Design Consultant with the latest version of the Architectural Standards.
- The Design Consultant will meet with the Port of Seattle Project Manager during negotiation to review the Design Consultant scope and ensure that all aspects of the Architectural Standards are followed and planned well. This meeting will take place once the Design Consultants have familiarized themselves with the latest version of the Architectural Standards.
- The Professional Services Agreement and Design Consultant scope of services requires that the consultant be familiar with and conform to the Architectural Standards.

- The Port of Seattle Project Manager is responsible for seeing that the Design Consultant design is in conformance with and consistent with the Architectural Standards.
- Reviews by the Port of Seattle Aviation Facilities Department include verification of conformance with the Architectural Standards.
- The Port of Seattle Project Manager requires a Variance Request from the Design Consultant for any requested variance from the Architectural Standards.
- The Port of Seattle Project Manager forwards Variance Requests to the Facilities Department/Design Review Committee, which is the reviewing and approving/disapproving body for variances and conformance with the Architectural Standards.

## **B. Ownership of Improvements**

### **General**

The Architectural Standards govern improvements to public areas of Seattle-Tacoma International Airport terminal facilities exclusive of facilities leased to tenants. Facilities leased to Tenants that are in the view of the public are part of the visual image conveyed by the airport. As such, they must be of design quality and level of finish appropriate to supporting the goals of the STIA Design Guidelines. To achieve this, the Architectural Standards are a guide for the development of Tenant space and are indicative of the expectations of the Port of Seattle for Tenant improvements at the airport.

### **Improvements**

All improvements within leased space are the responsibility of the Tenant and shall be provided, installed, and maintained by the Tenant. Tenants retain ownership of their improvements for the term of their lease. Upon termination of the lease, ownership and disposition of fixed improvements to the lease space will be according to the Tenant Agreement. Non-fixed improvements shall be removed from the leased space. Damage, other than normal wear and tear, shall be restored by the Tenant to original condition upon termination of occupancy. Refer to the Port of Seattle Tenant Agreement for general conditions, and to the specific Tenant Agreement for detail conditions.

## **C. Organization and Use of the Document**

### **General**

To use the Architectural Standards there are many starting points, all of which are cross-referenced (See also, Table of Contents). For example, to find the requirements of an area within the airport, refer to the area by location and find the desired information by using the Index of Materials/Finishes by Terminal Area (Section IV – C); it, in turn, refers to the specific standard Requirements for Materials, Means, and Methods (Section V). To find the requirements of a specific material, use the General Index as it refers to specific standards within the Requirements for Materials, Means, and Methods.

### **Listing of Terminal Public Areas**

This section lists the public areas of the terminal facilities that are covered in the Architectural Standards including a brief description of each. Graphics and photos have been included to assist in describing the areas.

### **Index of Materials/Products by Terminal Area**

Organized by terminal area, this section tells the user which materials and products are present at each area by location (floors, ceilings, walls, etc.). Each material is referenced to a Materials, Means and Method section.

Note: Drawings are for reference only, not for construction. They are included for clarification and as guidance for layout and finishes.

### **Requirements for Materials, Means, and Methods**

This section of the Architectural Standards covers the most specific information for each material or product. It is not a guideline specification, it identifies standards, and as such will provide necessary design information. It includes relevant information pertaining to the “how, what, and why” for each item, along with any specific installation or maintenance considerations. It is organized based on the Construction Specification Institute (CSI) Unifomat in order to simplify referencing and accessing information. For convenience, each material or product section will also include reference to the appropriate CSI Masterspec Section.

### **Technical Appendix**

The Technical Appendix includes two forms; A. Variance Request and B. Architectural Standards Update Request. Section C includes the “Index of Existing (Non-Standard)

Materials and Finishes by Terminal Area” which references existing materials and products currently in place in the terminal facilities. Section D is a reference outline of the Construction Specification Institute (CSI) UniFormat organization utilized by the Architectural Standards. Abbreviations and definitions for terms used in the Standards are included in Section E.

## **General Index**

The General Index is a quick reference for locating information on specific materials and products.

## **D. Coordination with other Standards**

### **Document List**

#### Architecture and Interiors

Seattle-Tacoma International Airport Design Guidelines, August 16, 1999  
Regulations for Airport Construction (RAC), August 22, 1996  
Restroom Design Standards, November 1, 1999  
Retail Concession Tenant Design Guidelines, December 1997  
Communication Implementation Plan, August 1999  
POS Interim Landscape Design Standards for STIA, March 2000

#### Engineering

Mechanical Systems Standards, August 2, 1999  
Electrical Systems Standards, August 2, 1999  
Water and Sanitary Waste Systems Standards, August 2, 1999

#### Graphics and Signage

Advertising Graphic and Display Design Guidelines, 1996 Sky Sites Lease  
STIA Signing and Graphics Guidelines, Undated  
Environmental Graphic Design Master Plan, to be released Winter 2001  
Roadway and Garage Signage Master Plan, June 3, 1999 Draft

## **E. Relationship to other Programs**

### **Art and Exhibit Program**

All projects are required to coordinate with other Port of Seattle programs, such as the Art and Exhibit Program. Provisions for future art installations, for example, need to be included in most publicly visible projects.

### **III. PROJECT REVIEW AND APPROVALS PROCESS**

#### **A. Review Process**

##### **General**

- The Port of Seattle Project Team (Project Manager, Facilities Department, Sponsor Line of Business, and the Design Review Committee) reviews projects for compliance with the Architectural Standards. (See B. Review Schedule, below)
- Each project is reviewed for conformance with, and approval procedures identified in, the Regulations for Airport Construction (RAC).
- The Port of Seattle Project Manager requires a detailed submittal from the Design Consultant for any requested variance from the Architectural Standards.
- The submittal will be forwarded to the Facilities Department/Design Review Committee, which is the reviewing body for variance from the Architectural Standards.
- The Port of Seattle Project Team will respond in writing to the sponsor of the Variance Request, through the Project Manager, who will accept or reject the variance. The decision of the Facilities Department and Design Review Committee shall be final.

##### **Project Reviewers**

At the determination of the Port of Seattle Project Manager, the following could be included:

Port of Seattle Project Manager  
Aviation Facilities Department (Maintenance, Infrastructure, and Environmental)  
Design Review Committee  
Project Sponsor Line of Business  
STIA Fire Department  
Port of Seattle Police Department (for fixtures furnishings and equipment review)  
Airport Security (included in review, as required, for specific items and issues)  
US Federal Inspection Services (included in review, as required, for specific items and issues)  
FAA (included in review, as required, for specific items and issues)  
General Foreman Lock and Key Shop  
Factory Mutual

## **B. Review Schedule**

### **Project Reviews**

Project reviews for compliance with the Architectural Standards occurs simultaneously with the normal reviews scheduled for compliance with other requirements. The Port of Seattle Project Manager determines the review schedule. In addition, the Design Review Committee reviews for compliance with the Architectural Standards as part of its normal process. The actual extent and timing of review may vary depending on project complexity and schedule, and should be confirmed with the Port of Seattle Project Manager at the start of each project.

## **C. Variance Process**

The Architectural Standards are in place to implement the STIA Design Guidelines and the overall vision of the airport. It is not the intent of the variance process to become the norm for implementing design at the airport. Before entering into the process for requesting variance from the Architectural Standards, Design Consultants must first consult with the Port of Seattle Project Manager to identify the need for the variance. Upon confirmation of need, the Design Consultant is responsible for completing the Variance Request, documenting the condition of variance, and noting where it meets the Standards and where it does not. All variance materials are required to meet the selection criteria (Section III, D) for materials, means, and methods identified in this Architectural Standards. Additionally, a proven history of successful performance for materials and products offered as a variance shall be documented as part of the Variance Request. A formal submittal of this information is then required for review by the Aviation Facilities Department and the Design Review Committee prior to any decision for approval or denial of the Variance Request. The Variance Request review period is approximately three weeks.

## **D. Selection Criteria**

### **Purpose of Selection Criteria**

Selection criteria were established to determine the materials, methods, color, and other components or characteristics for inclusion in the Architectural Standards. These criteria must also be met for non-standard (variance) materials or products submitted to the Owner for approval.



The criteria are based upon the Port of Seattle's goals for Seattle-Tacoma International Airport's visual image and its maintenance experience. They establish a baseline level of quality and standardization for architectural finishes at the airport. Finally, they stipulate and define the decision process that establishes the Architectural Standards.

## **General**

Material or product will:

- Comply with applicable laws, regulations, and codes
- Meet documented industry standards
- Consider public health, safety, and welfare issues
- Comply with the STIA Design Guidelines and all other design standards, where applicable

## **Materials**

Material or product will define appropriate levels of:

- Visual character - supports the goals and visual design character expressed in the STIA Design Guidelines
- Durability - where it will be susceptible to damage and/or high abuse is expected, the material or product will disguise damage and wear (consider using a solid material/color textures to hide scratches, etc.); it must hide soiling and be resistant to wear, vandalism, and impacts; consider estimated life of material
- Maintainability - surfaces can be cleaned (consider using textures vs. smooth surfaces, and exposed fasteners vs. simple surfaces); use surfaces that can be easily replaced when damaged; consider maintenance requirements of the material or product
- Availability - consider the future availability of the material or product (it should easily match the original material); selection of materials or products that can be competitively purchased (to the extent possible)
- Environmental - sustainable resources should be a consideration, but are not a requirement
- Cost - material or product cost should be appropriate to its conditions of use and location and consider how the material creates or supports the desired visual character; it should be appropriate to its exposure to damage and level of maintenance (for example paint finish can be used in lieu of plastic laminate panel if it is located in an area that is out of public reach)

## Means and Methods

Material or product will be appropriate in regards to its:

- Location - appropriate to its location and the conditions of use (consider its proximity to potential damage and/or maintenance conditions); the goal is to have minimal impact on continuing airport operations during maintenance or replacement
- Repair - the material or product can be repaired without extraordinary efforts to protect public and/or impede operation of airport; it can be repaired using readily available tools and materials, and does not rely on sole source proprietary materials
- Replacement - the material or product detailing allows for removal and replacement of damaged material without disturbing adjacent surfaces or structure/substrates
- Protection - its detailing protects the integrity of the material or product when it is placed in locations that are susceptible to damage
- Accessibility - its detailing allows for easy maintenance, repair, and access where required (for example – ceilings, walls, casework)
- Installation - the material or product is not overly complex with regard to initial installation; no premium must be paid for initial labor to install the material
- Hazardous materials - consider how the product or its installation affect air quality and sound levels; once installed, consider if the material or product produces off-gassing and/or odors

## Miscellaneous

- Port of Seattle has a material library that includes samples of products included in the Architectural Standards. For availability, contact the Port of Seattle Project Manager.
- *Reference within this document to a brand standard is not necessarily indicative of specific sole source, as the brand standard may be available from multiple suppliers.*

## E. Applicable Codes

Design Consultants are required to meet all applicable laws, codes and regulations, including the Americans with Disabilities Act (ADA), and the Port of Seattle Life Safety Code. Refer to the RAC for applicable codes.

## IV. Architectural Standards

### A. Definition of Terminal Public Areas

- 1. Pedestrian Bridges to Parking (Skybridges):** The pedestrian bridges connecting the fourth floor of the Parking Garage to the Promenade including the zone from the automatic sliding doors at the garage to the point at which the bridge connects to the terminal building.
- 2. Exterior Curbside - Ticketing Level:** The curbside walkway between the departures roadway curb and the front of the terminal building.
- 3. Ticket Lobby:** The lobby at the departures level of the terminal from the entry doors at the terminal Curbside to the Esplanade, inclusive of connecting corridors to the Esplanade, extending from the north end of the terminal to the South Hall.
- 4. Exterior Curbside - Baggage Claim Level:** The curbside walkway between the arrivals roadway curb and the front of the terminal building.
- 5. Baggage Claim Lobby:** The lobby at the baggage claim (arrivals) level of the terminal from the entry doors at the Exterior Curbside to the Baggage Claim Hall, inclusive of the escalator wells and landing circulation areas between the Baggage Claim Halls, extending from the north end of the terminal to the South Hall (future).
- 6. Baggage Claim Halls:** The area around and inclusive of the baggage claim devices from the positive claim railings adjacent to the Baggage Claim Lobby to the walls opposite, extending between the Baggage Claim Lobby escalator circulation areas.
- 7. Promenade:** The mid-level (bridge level) between the arrivals and departures levels of the terminal from the Pedestrian Bridges to the escalator including the wells, adjacent elevator lobbies, and adjacent Promenade space.
- 8. Esplanade:** The circulation hall at the concourse level of the terminal between the Ticket Lobby and the Concourses extending from the north end of the terminal to the north side of the Central Hall and from the south side of the Central Hall to the South Hall.
- 9. Mezzanine Level:** The Mezzanine Level located above, and visible from the Esplanade. This is a non-passenger area and includes Port of Seattle, airline and other offices.

**10. Central Hall and South Hall (Future):** The large-scale public gathering spaces; Central Hall at the center of the terminal on the departures level, and South Hall at the south end of the terminal on the arrivals level.

**11. Concourses A, B, C, and D:** The concourses attached to the terminal building containing aircraft boarding gates at the departures level, including connecting corridors to the Esplanade and security checkpoints. (Concourse A will be replaced entirely with the South Terminal Expansion Project (future).

**12. North and South Satellites:** The satellite concourses detached from the terminal building containing aircraft boarding gates at the departures level.

**13. Satellite Transit System (STS) Stations:** The sub-grade stations for the STS including the escalator wells to and from the stations, as well as mezzanine levels. Stations at the Main Terminal, satellites, and concourses are included.

**14. International Arrivals, Federal Inspection Services (FIS):** The sterile areas for processing international arrivals passengers within the international corridor, immigration, ramp, and STS levels of the South Satellite, including the areas from the sterile corridor through the processing areas, recheck, security and greeters lobby.

**15. Escalators/Escalators/Moving Walkways**

**16. Aircraft Passenger Loading Bridges**

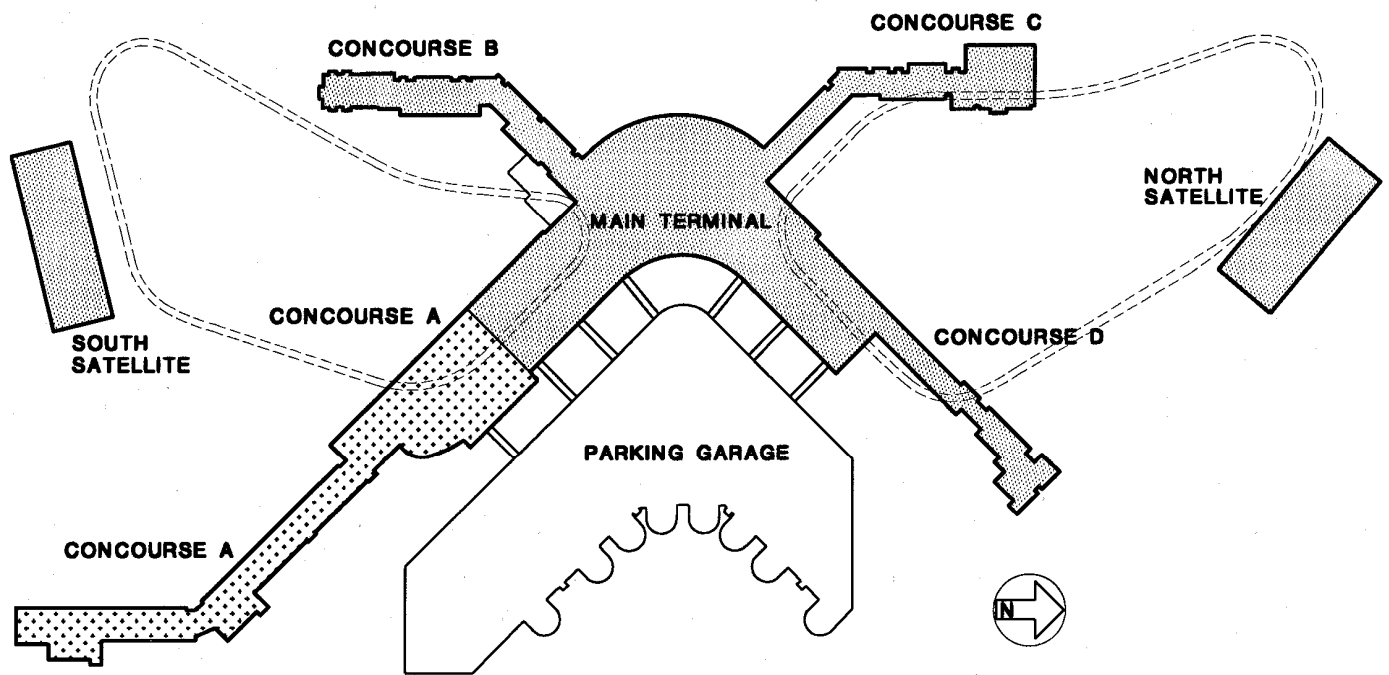
**17. Casework**

**18. Fixtures, Furnishings, Equipment**

**19. Specialty Items**

## **B. Terminal Public Area Floor Plans and Photographs**

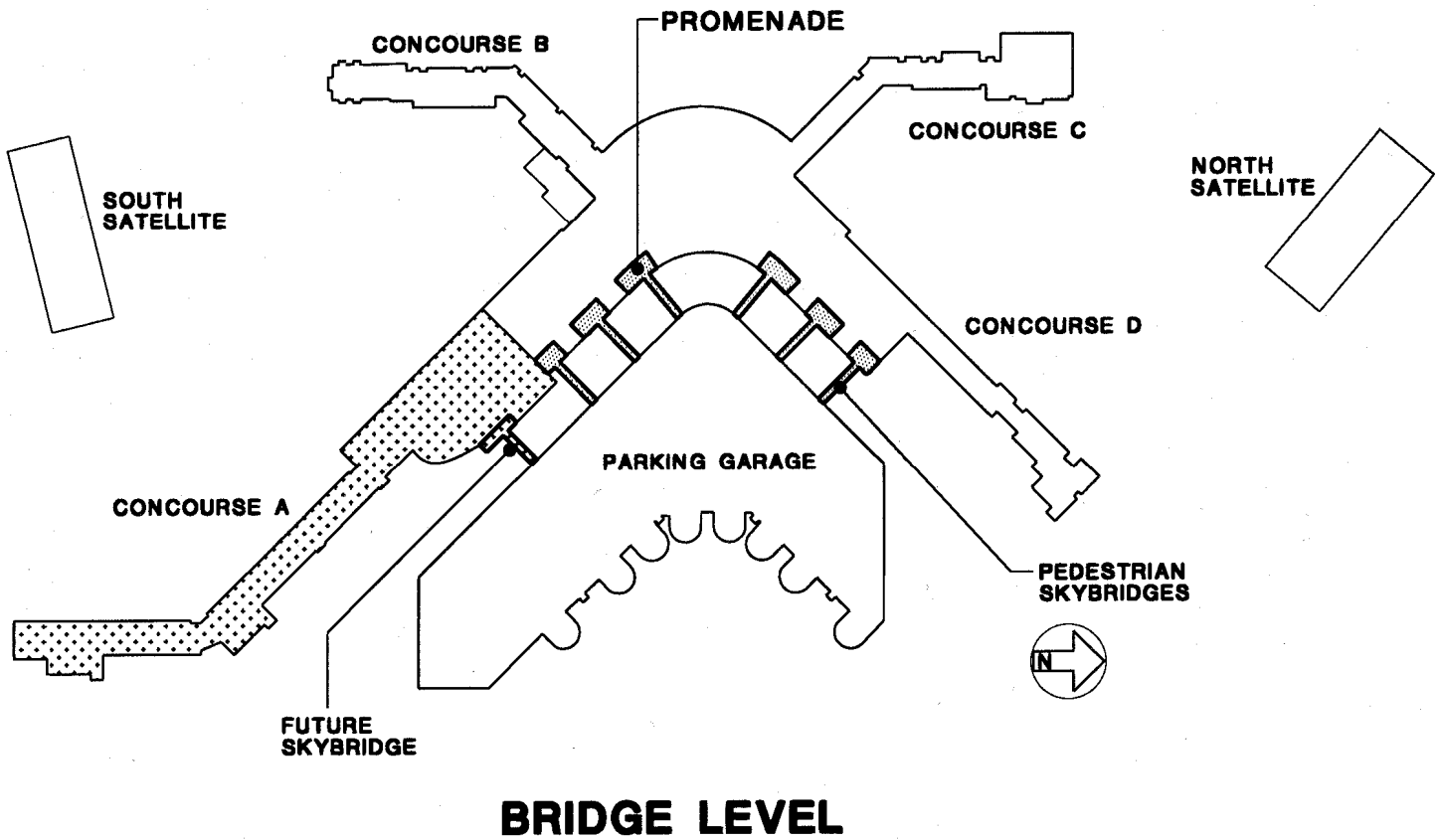
See following sheets



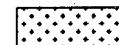
## GENERAL PLAN

### NOTE:

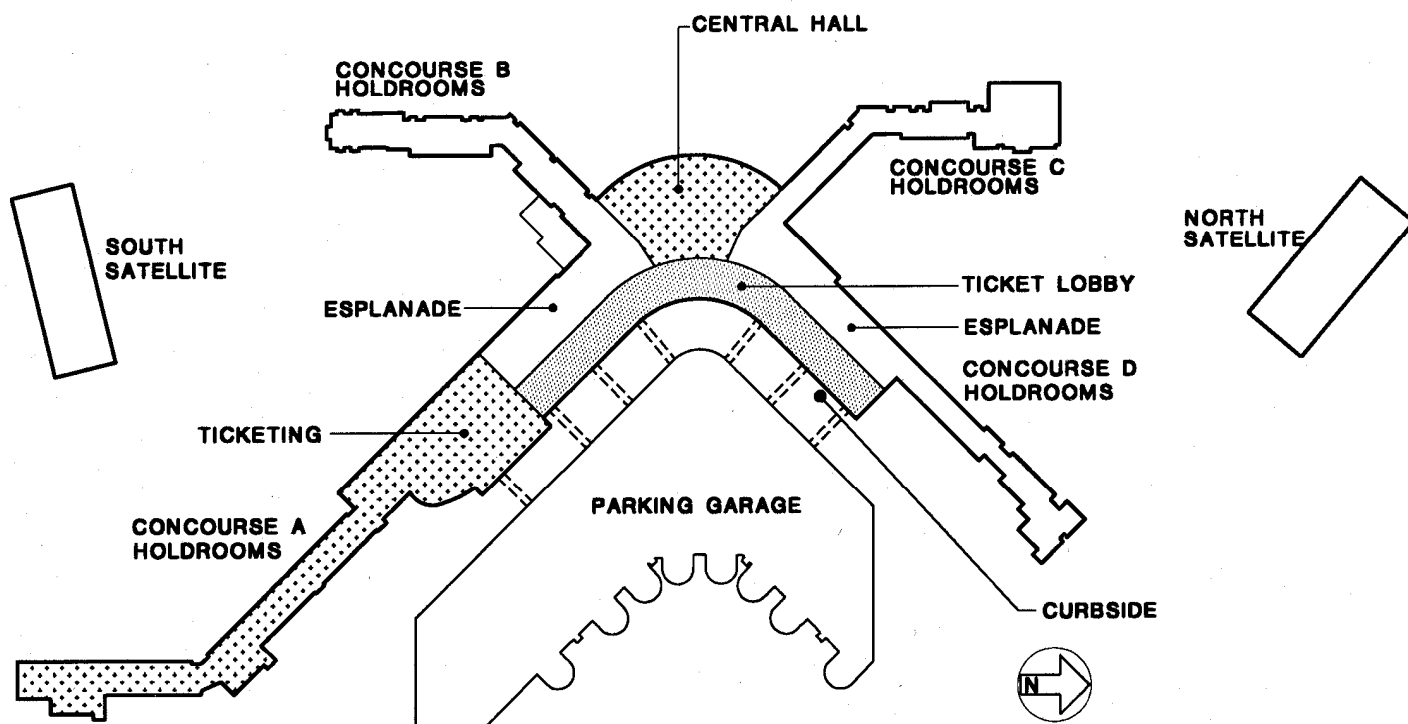
 **FUTURE AREAS**



**NOTE:**



**FUTURE AREAS**

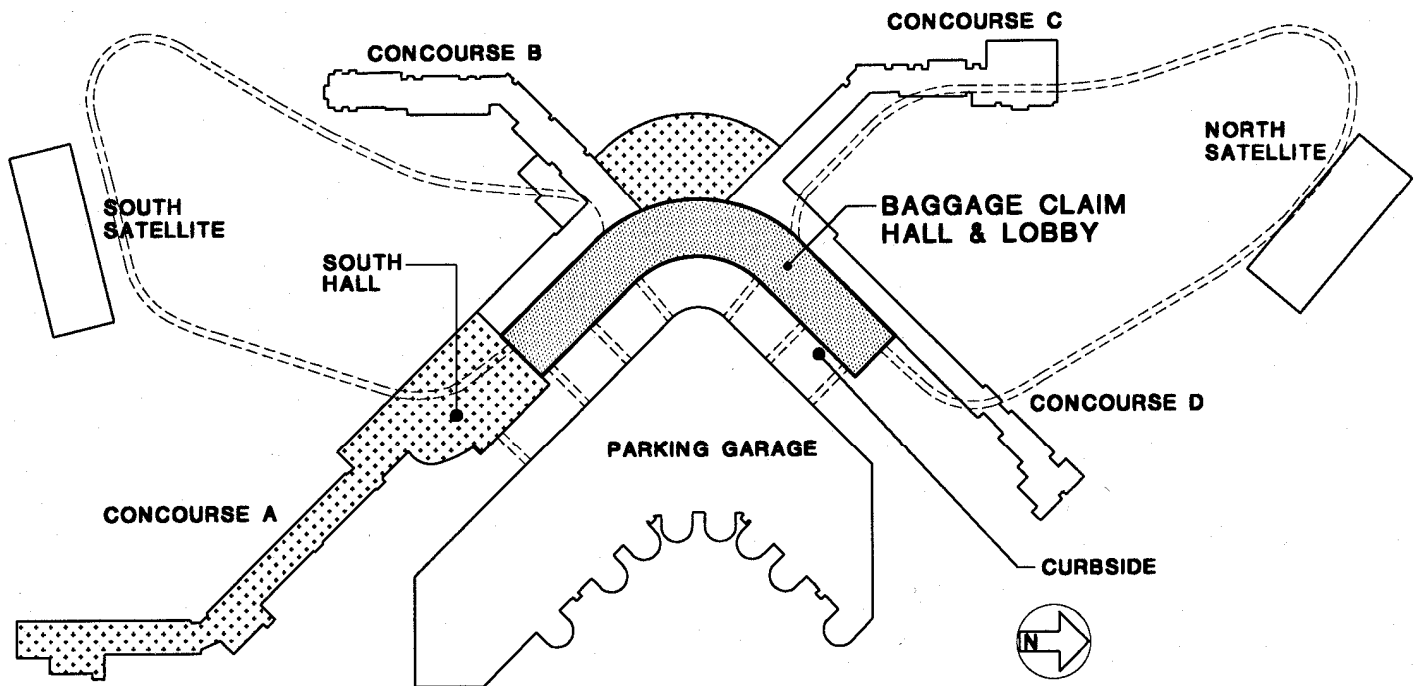


## TICKETING LEVEL

**NOTE:**



**FUTURE AREAS**



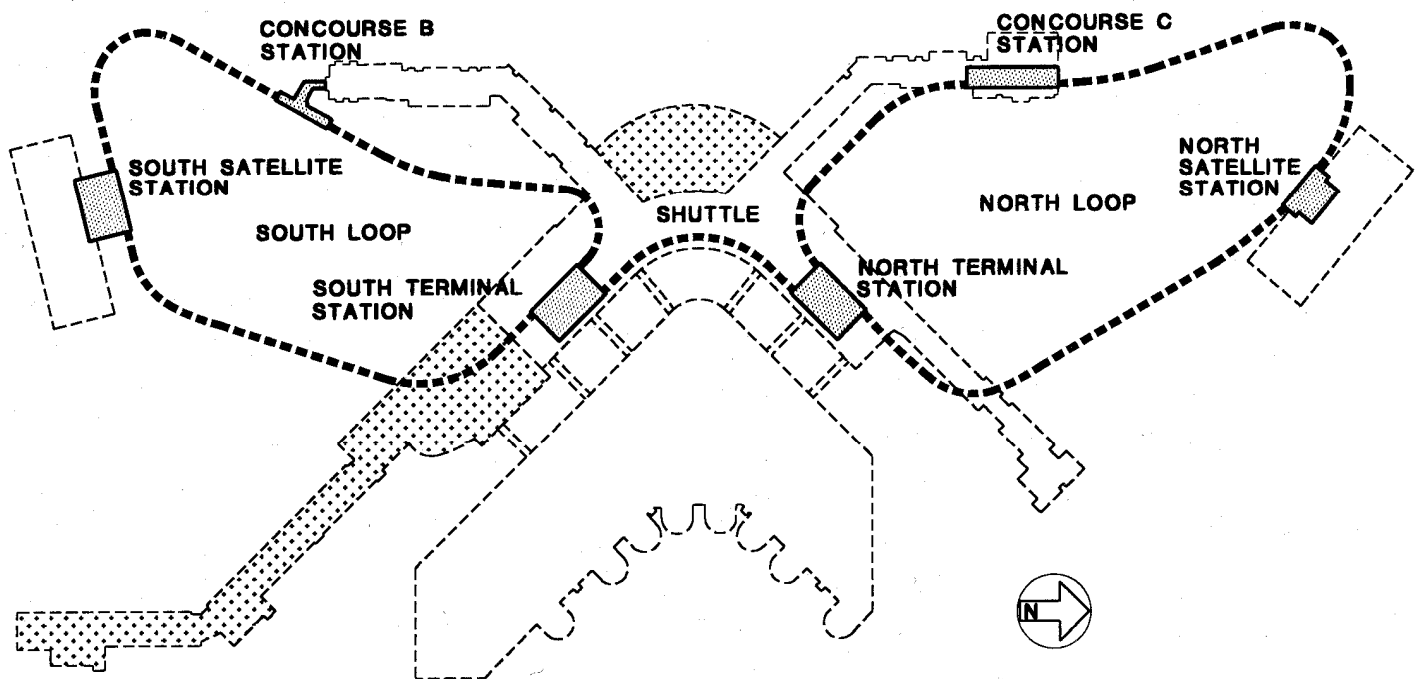
## BAGGAGE CLAIM LEVEL

NOTE:



FUTURE AREAS





## STS LEVEL

NOTE:



FUTURE AREAS



Pedestrian Bridge (Skybridge)



Exterior Curbside - Ticketing Level





Ticket Lobby



Exterior Curbside - Baggage Claim Level





Baggage Claim Lobby



Baggage Claim Hall





Baggage Claim Hall





Baggage Claim Hall



Promenade





Esplanade



Mezzanine  
(as shown above the Esplanade)  
Non-passenger Space



Central Hall (Future)  
Architect's Model





South Hall (Future)  
Architect's model



Concourse B



Concourse B





Concourse C



Concourse C



Concourse D





Concourse D



North Satellite



North Satellite





South Satellite



South Satellite





South Satellite



Main Terminal  
North STS Station





North STS Station



Main Terminal  
South STS Station





South STS Station



South STS Station  
International Arrivals Hall



Concourse B STS Station





Concourse C STS Station



## C. Index of Materials/Finishes by Terminal Area

### 1. Pedestrian Bridges to Parking (Skybridges)

**Walls:** not applicable

#### Floors

Carpet: tile .....	C3020.50
Walk-off mat .....	E2020.10

#### Ceilings

Metal: 4" linear perforated .....	C3030.30
-----------------------------------	----------

**Columns:** not applicable

#### Doors/Frames

Automatic doors	
Frames: anodized aluminum .....	B2030.10
Glass: tinted .....	B2030.40

#### Exterior

Window wall	
Mullions: anodized aluminum .....	B2020.20
Glass: tinted .....	B2020.50
Metal panel system .....	B2010.10
Roofing .....	B3010.10

#### Other

Steel trusses: paint finish .....	B1010.40
-----------------------------------	----------

### 2. Exterior Curbside - Ticketing Level

**Walls:** not applicable

#### Floors

Concrete: broom finish .....	B1010.80
------------------------------	----------

#### Ceiling

Metal: 4" linear perforated .....	C3030.30
-----------------------------------	----------

**Columns:** not applicable

**Doors/Frames:** not applicable

**Exterior:** not applicable

**Other**

Casework .....	E2010.10
Fixtures, furnishings, and equipment .....	E10 & 20

**3. Ticket Lobby****Walls**

Panel finish systems	
Wood .....	C3010.20
Plastic laminate .....	C3010.10
Stainless steel .....	C3010.30
Wainscoting .....	C3010.140
Base: backed stainless steel .....	C3010.130

**Floors**

Terrazzo	
Sand-float cementitious .....	C3020.20
Thin-set epoxy .....	C3020.20
Carpet	
Broadloom area rugs .....	E2020.10
Walk-off mat .....	E2010.40
Expansion control .....	C1030.40

**Ceilings**

Metal: 4" linear perforated .....	C3030.30
-----------------------------------	----------

**Columns**

Granite enclosure with vinyl corner guards .....	C3010.110
--	-----------

**Doors/Frames**

Automatic doors	
Frames: anodized aluminum .....	B2030.10
Glass: tinted .....	B2030.40
Standard doors	
Metal doors: paint finish .....	C1020.10
Metal frames: metal finish .....	C1020.10

**Exterior**

Window wall	
Mullions: anodized aluminum .....	B2020.20
Glass: tinted .....	B2020.50
Metal panel system .....	B2010.10
Parapets .....	B2010.80
Roofing .....	B3010.10

**Other**

Bracing .....	B1010.20
Guard rails: stainless steel with glass .....	C1010.20
Casework .....	E2010.10
Fixtures, furnishings, equipment .....	E10 & E 20
Specialty items .....	E10

**4. Exterior Curbside - Baggage Claim Level****Walls:** not applicable**Floors**

Concrete .....	B1010.80
----------------	----------

**Columns**

Concrete .....	B1010.10
----------------	----------

**Doors/Frames:** not applicable**Exterior:** not applicable**Other**

Fixtures, furnishings, equipment .....	E10 & E20
--	-----------

**5. Baggage Claim Lobby****Walls**

Panel finish system	
Wood .....	C3010.20
Plastic laminate .....	C3010.10
Stainless steel .....	C3010.30
Wainscoting .....	C3010.140
Base: backed stainless steel .....	C3010.130

**Floors**

Terrazzo	
Sand-float cementitious .....	C3020.20
Thin-set epoxy .....	C3020.20
Carpet	
Broadloom area rugs .....	E2020.10
Walk-off mat .....	E2010.40
Expansion control .....	C1030.40

## **Ceilings**

### **Metal**

4" linear perforated .....	C3030.30
12" plank perforated .....	C3030.40
Acoustical ceiling tile	
2' X 2' .....	C3030.20
Gypsum wall board: paint finish .....	C3030.10

## **Columns**

Granite enclosure with vinyl corner guards .....	C3010.110
Concrete .....	B1010.10
Concrete with metal casement: paint finish .....	B1010.10

## **Doors/Frames**

### **Automatic doors**

Frames: anodized aluminum .....	B2030.10
Glass: tinted .....	B2030.40

### **Standard doors**

Metal doors: paint finish .....	C1020.10
Metal frames: metal finish .....	C1020.10

## **Exterior**

### **Window wall**

Mullions: anodized aluminum .....	B2020.20
Glass: tinted .....	B2020.50

## **Other**

Bracing: painted steel .....	B1010.20
Guard rails: stainless steel with glass .....	C1010.20
Casework .....	E2010.10
Fixtures, furnishings, equipment .....	E10 & E20
Specialty items .....	E10

## **6. Baggage Claim Halls**

### **Walls**

#### **Panel finish system**

Wood .....	C3010.20
Plastic laminate .....	C3010.10
Stainless steel .....	C3010.30
Wainscoting .....	C3010.140
Base: backed stainless steel .....	C3010.130

### **Floors**

#### **Terrazzo**

Sand-float cementitious .....	C3020.20
-------------------------------	----------

Thin-set epoxy .....	C3020.20
Carpet	
Broadloom area rugs .....	E2020.10
Walk-off mat .....	E2010.40
Carpet (on baggage claim devices) .....	C3020.50
Expansion control .....	C1030.40

## **Ceilings**

Metal	
4" linear perforated .....	C3030.30
12" plank perforated .....	C3030.40

## **Columns**

Granite enclosure with vinyl corner guards .....	C3010.110
Concrete .....	B1010.10

## **Doors/Frames**

Standard doors	
Metal doors: paint finish .....	C1020.10
Metal frames: metal finish .....	C1020.10

**Exterior:** not applicable

## **Other**

Bracing: painted steel .....	B1010.20
Guard rails: stainless steel with glass .....	C1010.20
Positive claim rails: painted steel, stainless steel, perforated stainless steel .....	C1010.20
Claim devices: stainless steel, metal panel top surface .....	D10.50
Casework .....	E2010.10
Fixtures, furnishings, equipment .....	E10 & E20
Specialty items .....	E10

## **7. Promenade**

### **Walls**

Panel finish system	
Plastic laminate .....	C3010.10
Wainscoting .....	C3010.140
Base: backed stainless steel .....	C3010.130

### **Floors**

Terrazzo	
Sand-float cementitious .....	C3020.20
Thin-set epoxy .....	C3020.20

Carpet	
Broadloom .....	C3020.50
Expansion control.....	C1030.40

#### **Ceilings**

Metal: 4" linear perforated .....	C3030.30
-----------------------------------	----------

#### **Columns**

Granite enclosure with vinyl corner guards.....	C3010.110
Concrete.....	B1010.10

**Doors/Frames:** not applicable

#### **Exterior**

Window wall	
Mullions: anodized aluminum .....	B2020.20
Glass: tinted.....	B2020.50
Parapets.....	B2010.80

#### **Other**

Guard rails: stainless steel with glass .....	C1010.20
Casework .....	E2010.10
Fixtures, furnishings, equipment .....	E10 & E20
Specialty items .....	E10

### **8. Esplanade**

#### **Walls**

Panel Finish System	
Wood .....	C3010.20
Plastic laminate .....	C3010.10
Painted metal.....	C3010.30
Wainscoting .....	C3010.140
Base: backed stainless steel.....	C3010.130

#### **Floors**

Terrazzo	
Sand-float cementitious .....	C3020.20
Thin-set epoxy .....	C3020.20
Carpet	
Broadloom area rugs .....	E2020.10
Expansion control.....	C1030.40

#### **Ceilings**

Metal	
4" linear perforated .....	C3030.30

12" plank perforated .....	C3030.40
----------------------------	----------

#### **Columns**

Granite enclosure with vinyl corner guards .....	C3010.110
Stainless steel enclosure.....	C3010.110

#### **Doors/Frames**

Standard doors	
Metal doors: paint finish.....	C1020.10
Metal frames: metal finish.....	C1020.10

#### **Exterior**

Window wall	
Mullions: anodized aluminum .....	B2020.20
Glass: tinted.....	B2020.50
Metal panel system .....	B2010.10
Parapets.....	B2010.80
Roofing.....	B3010.10

#### **Other**

Guard rails - stainless steel with glass.....	C1010.20
Casework .....	E2010.10
Fixtures, furnishings, equipment .....	E10 & E20
Specialty items .....	E10
Roofing.....	B3010.10

### **9. Mezzanine Level**

The mezzanine level is a non-passenger area.

### **10. Central Hall and South Hall (Future)**

#### **Walls**

Panel Finish System	
Wood .....	C3010.20
Plastic laminate .....	C3010.10
Stainless steel .....	C3010.30
Cast-in-place concrete.....	B1010.50
Stone .....	C3010.60
Wainscoting .....	C3010.140
Gypsum wall board: paint finish .....	C3010.40
Base: backed stainless steel.....	C3010.130

#### **Floors**

Terrazzo	
Sand-float cementitious.....	C3020.20

Thin-set epoxy .....	C3020.20
Stone .....	C3020.30
Expansion control.....	C1030.40

## Ceilings

Metal	
4" linear perforated .....	C3030.30
12" plank perforated .....	C3030.40
Acoustical ceiling tile	
2' X 2' .....	C3030.20
Gypsum wall board: paint finish .....	C3030.10

## Columns

Steel	
Paint finish .....	B1010.20
Stainless steel enclosure .....	C3010.110

## Doors/Frames

Automatic doors	
Frames: anodized aluminum .....	B2030.10
Glass: clear .....	B2030.40
Standard doors	
Metal doors: paint finish.....	C1020.10
Metal frames: metal finish.....	C1020.10

## Exterior

Window wall	
Mullions: anodized aluminum .....	B2020.20
Glass: clear .....	B2020.50
Glass: fritted .....	B2020.50
Window wall	
Cable suspension .....	B2020.30
Glass: clear .....	B2020.50
Metal panel system .....	B2010.10
Parapets .....	B2010.80
Roofing .....	B3010.10

## Other

Guard rails: stainless steel with glass .....	C1010.20
Casework .....	E2010.10
Fixtures, furnishings, equipment .....	E10 & E20
Specialty items .....	E10



## 11. Concourses A, B, C, D

### Walls

Panel Finish System	
Plastic laminate .....	C3010.10
Wood .....	C3010.20
Metal .....	C3010.30
Fabric wrapped.....	C3010.100
Wainscoting .....	C3010.140
Gypsum wall board: paint finish .....	C3010.40
Base: backed stainless steel.....	C3010.130

### Floors

Terrazzo	
Thin-set epoxy .....	C3020.20
Carpet: broadloom .....	C3020.50
Expansion control.....	C1030.40

### Ceilings

Metal	
2' x 4' perforated.....	C3030.40
2' x 2' perforated.....	C3030.40
Acoustical ceiling tile	
2' x 2' tile .....	C3030.20
Gypsum wall board: paint finish .....	C3030.10

### Columns

Steel	
Textured finish .....	C3010.110
Stainless steel enclosure.....	C3010.110
Metal enclosure: paint finish .....	C3010.110
Gypsum wall board enclosure: paint finish .....	C3010.40

### Doors/Frames

Standard doors	
Metal doors: paint finish.....	C1020.10
Metal frames: metal finish.....	C1020.10

### Exterior

Window wall	
Mullions: anodized aluminum .....	B2020.20
Glass: clear.....	B2020.50
Glass: tinted.....	B2020.50
Glass: fritted .....	B2020.50
Translucent panel system.....	B2020.40
Skylight: translucent panel system.....	B2020.40
Metal panel system .....	B2010.10

Parapets .....	B2010.80
Roofing .....	B3010.10

#### **Other**

Guard rails: stainless steel with glass .....	C1010.20
Casework .....	E2010.10
Fixtures, furnishings, equipment .....	E10 & E20
Specialty items .....	E10

### **12. North and South Satellite**

#### **Walls**

Panel finish system	
Plastic laminate .....	C3010.10
Wood .....	C3010.20
Wainscoting .....	C3010.140
Gypsum wall board: paint finish .....	C3010.40
Base: backed stainless steel .....	C3010.130

#### **Floors**

Terrazzo	
Sand-float cementitious .....	C3020.20
Thin-set epoxy .....	C3020.20
Carpet: broadloom .....	C3020.50
Ceramic tile .....	C3020.10
Expansion control .....	C1030.40

#### **Ceilings**

Metal: 4" linear perforated .....	C3030.30
Gypsum wall board: paint finish .....	C3030.10

#### **Columns**

Steel	
Textured finish .....	C3010.110
Stainless steel enclosure .....	C3010.110
Metal enclosure: paint finish .....	C3010.110
Plastic laminate panel enclosure with vinyl corner guards .....	C3010.10

#### **Doors/Frames**

Standard doors	
Metal doors: paint finish .....	C1020.10
Metal frames: metal finish .....	C1020.10

#### **Exterior**

Window wall	
Mullions: anodized aluminum .....	B2020.20
Glass: tinted .....	B2020.50

Metal panel system .....	B2010.10
Parapets .....	B2010.80
Roofing .....	B3010.10

#### **Other**

Guard rails: stainless steel with glass .....	C1010.20
Casework .....	E2010.10
Fixtures, furnishings, equipment .....	E10 & E20
Specialty items .....	E10

### **13. Satellite Transit System (STS) Stations**

#### **Walls**

Panel finish system	
Wood .....	C3010.20
Plastic laminate .....	C3010.10
Wainscoting .....	C3010.140
Base: backed stainless steel .....	C3010.130

#### **Floors**

Terrazzo	
Sand-float cementitious .....	C3020.20
Thin-set epoxy .....	C3020.20
Expansion control .....	C1030.40

#### **Ceilings**

Metal	
4" linear perforated .....	C3030.30
12" plank perforated .....	C3030.40
2' X 2' perforated .....	C3030.40

#### **Columns**

Steel: stainless steel enclosure .....	C3010.110
--	-----------

#### **Doors/Frames**

STS doors	
Metal doors: stainless steel .....	C1020.10
Metal frames: stainless steel .....	C1020.10
Glass: clear .....	C1020.50
Standard doors	
Metal doors: paint finish .....	C1020.10
Metal frames: metal finish .....	C1020.10

**Exterior:** not applicable

#### **Other**

Casework .....	E2010.10
----------------	----------

Fixtures, furnishings, equipment .....	E10 & E20
Specialty items .....	E10

#### **14. International Arrivals, Federal Inspection Services (FIS) - Sterile Corridors, Immigration/Public Health Hall, Baggage Claim, Customs, Agriculture Hall, Greeters Lobby**

##### **Walls**

Panel finish system	
Plastic laminate .....	C3010.10
Wainscoting .....	C3010.140
Gypsum wall board: paint finish .....	C3010.40
Base: backed stainless steel.....	C3010.130

##### **Floors**

Terrazzo	
Sand-float cementitious .....	C3020.20
Thin set epoxy .....	C3020.20
Carpet: broadloom .....	C3020.50
Expansion control.....	C1030.40

##### **Ceilings**

Metal: 4" linear perforated .....	C3030.30
-----------------------------------	----------

##### **Columns**

Steel: plastic laminate panel enclosure with vinyl corner guards.....	C3010.110
--	-----------

##### **Doors/Frames**

Standard doors	
Metal doors: paint finish.....	C1020.10
Metal frames: metal finish.....	C1020.10

##### **Exterior**

Window wall	
Mullions: anodized aluminum .....	B2020.20
Glass: tinted.....	B2020.50
Metal panel system .....	B2010.10

##### **Other**

Guard rails: stainless steel with glass .....	C1010.20
Queue Rails: stainless steel, stainless steel panel .....	C1010.20
Claim devices: stainless steel, metal panel top surface .....	D10
Casework .....	E2010.10
Fixtures, furnishings, equipment .....	E10 & E20
Specialty items .....	E10

## 15. Elevators/Escalators/Moving Walkways

Elevators: stainless steel panel system .....	D10.10
Escalators .....	D10.20
Moving walkways .....	D10.30
Aircraft passenger loading bridges .....	D10.40
Baggage claim devices .....	D10.50

## 16. Aircraft Passenger Loading Bridges

<b>General</b> .....	D10.40
----------------------	--------

### Walls

Panel finish system	
Plastic laminate .....	C3010.10

### Floors

Carpet	
Broadloom .....	C3020.50

### Ceilings

Metal: 12" plank perforated .....	C3030.40
-----------------------------------	----------

**Columns:** not applicable

### Doors/Frames

Concourse entry/exit	
Metal doors: paint finish.....	C1020.10
Metal frames: stainless steel .....	C1020.10

### Exterior

Walls: paint finish .....	B2010.70
Soffit: paint finish.....	B2010.30
Stairs: galvanized.....	B2010.50

**Other:** not applicable

## 17. Casework

Ticket counters and bagwells.....	E2010.10
Airline customer service counters .....	E2010.10
Gate podiums and backwalls .....	E2010.10
Ticket lift podiums .....	E2010.10
Curbside check-in podiums.....	E2010.10
Gate card readers .....	E2010.10
Baggage service counters .....	E2010.10

Baggage claim storage units.....	E2010.10
Ground transportation information counters .....	E2010.10
Ground transportation service counters.....	E2010.10
Tour group counters.....	E2010.10
Public information counters.....	E2010.10
Solicitor's booth.....	E2010.10
Bus kiosks .....	E2010.10
Airport security counters and partitions.....	E2010.10
Miscellaneous partitions/railings .....	C1010.20
Flight information display equipment enclosures	<i>Refer to Signage Standards</i>
Baggage information display equipment enclosures	<i>Refer to Signage Standards</i>
Airport information equipment enclosures	<i>Refer to Signage Standards</i>
Hospitality information equipment enclosures	<i>Refer to Advertising Lease</i>
Foreign currency exchange counters	<i>Refer to Concessions Standards</i>
Bus counters	<i>Refer to Advertising Standards</i>
Travelers aid counter	<i>Refer to Advertising Standards</i>
Advertising	<i>Refer to Advertising Standards</i>

## 18. Fixtures, Furnishings, Equipment

Gate lobby multiple seating units .....	E2020.20
Gate lobby table units .....	E2020.30
Public area modular seating units.....	E2020.20
Public area benches.....	E2020.20
Public area table units.....	E2020.30
Trash receptacles.....	E2020.40
Ashtrays .....	E2020.50
Recycling units .....	E2020.40
Plant containers .....	E2020.60
Carpets/area rugs .....	E2020.10
Cable television monitors.....	E2010.10

## 19. Specialty Items

Telephone wall-mounted enclosures	<i>Refer to Telephone Lease</i>
Telephone free-standing enclosures	<i>Refer to Telephone Lease</i>
Telephone sit-down enclosures	<i>Refer to Telephone Lease</i>
Airport paging telephones	<i>Refer to Telephone Lease</i>
Fire extinguisher cabinets .....	E1010.10
Fire hose cabinets.....	E1010.40
Portable ticket lobby queue rails .....	E1010.50
Service alcoves .....	E1010.10
Unmanned passenger services .....	E1010.10
Vending machines	
Newspapers	



Shoe shine  
Change machines  
Phone card machines  
Baggage cart rental  
Baggage lockers  
Internet kiosks  
Mail boxes

## **V. Materials, Means and Methods**

### **A. Overview of Format**

#### **Section Number and Title**

Uses Construction Specification Institute (CSI) UniFormat numbering system.

#### **CSI Master Specification Reference Number**

For easy reference between the CSI Master Specification and the UniFormat Systems.

#### **Summary**

- Brief summary of products covered
- Related sections: lists related products/materials, and their section
- List materials/products covered in the section

#### **Design Requirements**

Lists appropriate information on the following:

- Visual character
- Method of application
- Performance requirements
- Accessories
- Installation
- Protection
- Maintenance
- Repair and replacement

#### **Materials/Products**

- Acceptable finishes, materials and products
- Fabrication requirements
- Maintenance requirements

### **B. Extent of Technical Information**

#### **Summary**

As described in Section II, parts A and D, the Architectural Standards cover all architectural elements visible to the public. Other STIA standards and guidelines provide information and requirements for architectural materials at restrooms, signage, non-public areas, and offices.

**The Architectural Standards do not govern the following areas that are covered in separate STIA manuals (see following document list):**

- Restrooms
- Retail/concessions
- Environmental Graphic Display, EGD (includes advertising, graphics and display)

- Roadway and garage signage
- Terminal signage
- Parking garage
- Port of Seattle offices and maintenance facilities
- Non-public tenant spaces

## **Document List**

### Architecture and Interiors

Seattle-Tacoma International Airport Design Guidelines, August 16, 1999  
 Regulations for Airport Construction (RAC), August 22, 1996  
 Restroom Design Standards, November 1, 1999  
 Retail Concession Tenant Design Guidelines, December 1997  
 Communication Implementation Plan, August 1999  
 POS Interim Landscape Design Standards for STIA, March 2000

### Engineering

Mechanical Systems Standards, August 2, 1999  
 Electrical Systems Standards, August 2, 1999  
 Water and Sanitary Waste Systems Standards, August 2, 1999

### Graphics and Signage

Advertising Graphic and Display Design Guidelines, 1996 Sky Sites Lease  
 STIA Signing and Graphics Guidelines, Undated  
 Environmental Graphic Design Master Plan, to be released Winter 2001  
 Roadway and Garage Signage Master Plan, June 3, 1999 Draft

CSI Master Specification Division: 03300

## **SUMMARY**

This section covers design requirements, materials and installation of finishes and treatments for cast-in-place concrete columns.

Related sections:

C3010.110      Column Covers

This section includes information on:

Stucco  
Pre-Cast Concrete Column Covers  
Manufactured Metal Cover  
Concrete Finish

## **DESIGN REQUIREMENTS**

- A. Choice of finishes and textures must take into consideration the materials ability to resist abuse and conceal slight imperfections or minor physical damages.
- B. Finish new concrete columns to closely match the appearance of existing columns.
- C. Plain (unfinished) cast-in-place concrete finish is preferred at columns although painted concrete is an acceptable finish. If plain sealed concrete finish is used, remove all scales, stains and form markings to ensure smooth and uniformly clean surfaces prior to application of sealer.
- D. Use only penetrating type concrete sealers. Film forming sealers may not be able to hold against outward moisture migration.
- E. Provide a permanent or non-sacrificial type anti-graffiti coating or other applicable soil and dirt control coating that does not alter the appearance of the concrete surface for all exposed surfaces accessible by the public.
- F. Preference is given to steel with a high percentage of recycled content (45% minimum.)

## **MATERIALS/PRODUCTS**

- A. Stucco
  - Acceptable finishes: Three-coat Portland cement plaster, white Portland cement for finish coat; smooth finish with sand aggregate in finish coat; sealed prior to finish
- B. Pre-Cast Concrete Column Covers
  - Acceptable finishes: Light sandblast to eliminate slight imperfections

**Section B10 - Superstructure**

**B1010.10**  
**Cast-in-Place Concrete Columns**  
2 of 2

CSI Master Specification Division: 03300

**Manufactured Metal Cover**

Acceptable materials:

Minimum 16 gauge smooth galvanized steel for durability at conditions accessible to the public  
All exterior fasteners or fasteners in wet areas to be series 300 stainless steel

Acceptable finishes:

Exterior and interior of metal panels to receive a shop-applied three-coat spray application of high performance fluorocarbon coating with a minimum of 70% Kynar 500 resin

**Concrete Finish**

Acceptable finishes:

Sealed plain concrete finish  
Painted, verify with Port of Seattle Project Manager  
Light sandblast finish; sandblast prior to sealing

CSI Master Specification Division: 05120

**SUMMARY**

This section covers design requirements, materials and installation of finishes of structural steel columns and bracings, which are exposed to public view. This section also includes finishing for fastener heads, nuts and washers used in conjunction with metal items that will be exposed in the finish work.

Related sections:

B1010.40	Structural Steel Beam
C3010.110	Column Covers

This section includes information on:

Paint Products

**DESIGN REQUIREMENTS**

- A. Ensure uniform finish color in all exposed portions.
- B. Match existing and adjacent exposed structural steel colors.
- C. Fasteners, nuts and washers finished to match adjacent steel.

**MATERIALS/PRODUCTS**

- A. Paint Products
  - Acceptable finishes: Urethane semi-gloss
  - Acceptable manufacturers: Tnemec Series 75 "Endura Shield"
  - Wasser "MC-Luster"
  - Sherwin Williams "Hi-Solids Polyurethane" B65 Series/B60V30
  - Carboline "Carbothane" 134 HS with flatting agent

- B. Paints and Sealers - General
  - Refer to Section VI Technical Appendix G, *Environmental Criteria and Guidelines*.

When paints or sealers must be applied on site, within the Airport interior, the product used must not exceed the maximum level of VOC's (volatile organic compounds) stipulated in the current guidelines of the South Coast Air Quality Management District (SCAQMD) Rule #1113.



CSI Master Specification Division: 03300

## **SUMMARY**

This section covers design requirements, materials and installation of finishes and treatments for cast-in-place concrete beams.

This section includes information on:

Stucco  
Pre-Cast Concrete Panels  
Manufactured Metal Cover  
Concrete Finish

## **DESIGN REQUIREMENTS**

- G. Concrete surfaces to be appropriately sealed prior to application of finishes. Choice of finishes and textures shall take into consideration the materials ability to resist abuse and conceal slight imperfections or minor physical damages.
- H. Use only penetrating type concrete sealers. Film forming sealers may not be able to hold against outward moisture migration.
- D. Provide a permanent or non-sacrificial type anti-graffiti coating or other applicable soil and dirt control coating that does not alter the appearance of the concrete surface for all exposed surfaces accessible by the public.

## **MATERIALS/PRODUCTS**

Stucco

Acceptable finishes:

Three-coat Portland cement plaster, white Portland cement for finish coat; smooth finish with sand aggregate in finish coat; sealed prior to finish

Pre-Cast Concrete Panels

Acceptable finishes:

Light sandblast to eliminate imperfections

Manufactured Metal Cover

Acceptable materials:

Minimum 18-22 gauge smooth galvanized steel, with detailing appropriate to maintain a flat surface appearance; all exterior fasteners or fasteners in wet areas to be series 300 stainless steel

Acceptable finishes:

Exterior and interior of metal panels to receive a three-coat spray applied high performance fluorocarbon coating with a minimum of 70% Kynar 500 resin

**Section B10 - Superstructure**

**B1010.30**  
**Cast-in-Place Concrete Beams**  
2 of 2

CSI Master Specification Division: 03300

Concrete Finish

Acceptable finishes:

Sealed plain concrete finish

Light sandblast finish; sealed prior to sandblast

CSI Master Specification Division: 05120

## **SUMMARY**

This section covers design requirements, materials and installation of shop finishes of structural steel beams that are exposed to public view. This also includes finishing for fastener heads, nuts and washers used in conjunction with metal items that will be exposed in the finish work.

Related sections:

B1010.40      Structural Steel Columns & Bracings

This section includes information on:

B. Paint Products

## **DESIGN REQUIREMENTS**

- Ensure uniform finish color in all exposed portions.
- Match existing and adjacent exposed structural steel colors.
- Fasteners, nuts and washers finished to match adjacent steel.

## **MATERIALS/PRODUCTS**

A. Paint Products

Acceptable finishes:

Urethane semi-gloss

Acceptable manufacturers:

Tnemec Series 75 "Endura Shield"

Wasser "MC-Luster"

Sherwin Williams "Hi-Solids Polyurethane" B65

Series/B60V30

Carboline "Carbothane" 134 HS with flatting agent

CSI Master Specification Division: 03300

## **SUMMARY**

This section covers design requirements, materials and installation of finishes and treatments for cast-in-place concrete walls.

This section includes information on:

- A. Stucco
- B. Pre-Cast Concrete Panels
- C. Manufactured Metal Panels

## **DESIGN REQUIREMENTS**

- Concrete surfaces to be appropriately sealed prior to application of finishes. Choice of finishes and textures shall take into consideration its ability to resist abuse and to conceal slight imperfections or minor physical damages.
- Textured finish is recommended, such as bush-hammered medium sandblast minimum.
- Use only penetrating type concrete sealers. Film forming sealers may not be able to hold against outward moisture migration.
- E. Provide a permanent or non-sacrificial type anti-graffiti coating or other applicable soil and dirt control coating that does not alter the appearance of the concrete surface for all exposed surfaces accessible by the public.
- For sidings and panels, provide clearances at panel edges, corners and transitions.
- Use concealed fasteners where practical.
- All structural and movement joints shall be appropriately covered.
- Refer to Section B1010.60

## **MATERIALS/PRODUCTS**

- A. Stucco
  - Acceptable finishes: Three-coat Portland cement plaster, white Portland cement for finish coat; smooth finish with sand aggregate in finish coat; sealed prior to finish
- B. Pre-Cast Concrete Panels
  - Acceptable finishes: Light sandblast to eliminate imperfections
  - Acceptable manufacturers: Tecon Pacific  
Architectural Precast Structures  
Panorama Building Systems, Ltd.  
Olympian Precast, Inc.  
Walters & Wolf Precast

**Section B10 - Superstructure**

**B1010.50**  
**Cast-in-Place Concrete Walls**  
2 of 2

CSI Master Specification Division: 03300

C. Manufactured Metal Panels      Refer to Section B2010.10



CSI Master Specification Division: 04220

**SUMMARY**

This section covers design requirements, materials and installation of finishes and treatment for concrete masonry units.

This section includes information on:

- A. Concrete Blocks
- B. Colored Mortar Pigments
- C. Moisture Control
- D. CMU Walls at Exterior Ramp Level

**DESIGN REQUIREMENTS**

- Exposed mortar joints between masonry units shall be visually and dimensionally consistent.
- Joints to be tooled concave. Other joint profiles may be allowed based on the ability to drain or shed water from the joint.
- For painted finishes, finish coat to be exterior masonry acrylic flat coating.
- Blocks and mortar to have water repellant additives; all finish surfaces to receive water repellant treatment.

**MATERIALS/PRODUCTS**

- A. Concrete Blocks
  - Acceptable materials: Hollow load bearing units; integrally colored  
Common  
Honed  
Split-faced finish
  - Acceptable finishes: Profiled face units (require approval by the Design  
Review Committee)
- B. Colored Mortar Pigments
  - Acceptable materials: Iron oxides and chromium oxides with demonstrated  
record of satisfactory performance in mortar mixes
- C. Moisture Control
  - Acceptable materials: Water repellant additives for blocks and mortar; surface  
applied water repellant treatment
- D. CMU Walls at Exterior Ramp Level
  - Acceptable finishes: "Black Pearl" by Sherwin Williams

CSI Master Specification Division: 07410

**SUMMARY**

This section covers design requirements, materials and installation of pre-manufactured metal wall panels, built up metal wall systems, and metal fascia systems for exterior wall systems. (For information on existing exterior metal wall panels see the Technical Appendix.)

This section includes information on:

- A. Metal Foam Panel Systems
- B. Preformed Metal Panel Systems
- C. Bronze Anodized Aluminum Panel Systems
- D. Aluminum Panel Systems
- E. Paint

**DESIGN REQUIREMENTS**

- The surface of the metal panel shall be smooth, dead flat. Textured surface not permitted because textured panels hold contaminants that increase streaking and are difficult to clean.
- Panels to be self-cleaning, with a finish that is durable to climatic conditions.
- Metal panels of the terminal to match existing anodized bronze color. Metal panels at the concourses are to match the existing white color. Refer to the following photographs.
- Projects that require matching existing, non-standard materials, refer to the Technical Appendix (verify requirements with Port of Seattle Project Manager).
- Specify systems that attain a watertight condition mechanically; where joint sealers are required, the sealer shall not streak or stain the panel surface. Sealant joints should be minimized.
- Radar reflection shall be taken into consideration for all airside exterior metal wall panels, see "FAA Requirements" in Section I.
- Panel material shall have a minimum Sound Transmission Class (STC) rating of 40. Refer to STIA Design Guidelines for information and requirements on acoustics for exterior walls.

**MATERIALS/PRODUCTS**

- A. Metal Foam Panel Systems

Acceptable materials:

"Galvalume" sheet coated with zinc-aluminum alloy  
Galvanized steel sheet (G90 hot dipped galvanized).

Preference is given to material with a high percentage of recycled content (minimum of 45%) and to products manufactured and sourced locally.

Acceptable finishes:

Fluoropolymer finish - Lilly "Visalure" 2 Metalescent" or  
an equivalent pearlescent finish

**Section B20 - Exterior Closure**

**B2010.10**  
**Exterior Wall - Metal Wall Panels**  
2 of 6

CSI Master Specification Division: 07410

- |  |  |
|--|--|
| Acceptable manufacturers:  | Centria, Inc.<br>ASP, Inc.<br>I.B.P., Inc.   |
| <br>   |  |
| B. Preformed Metal Panel Systems   |  |
| Acceptable finishes:   | The exterior and interior of the metal panels shall receive a three-coat, spray applied, high performance fluorocarbon coating containing a minimum of 70% Kynar 500 resin |
| <br>   |  |
| C. Bronze Anodized Aluminum Panel Systems  |  |
| Acceptable finishes:   | Color to match existing bronze anodized aluminum finishes  |
| <br>   |  |
| D. Aluminum Panel Systems  |  |
| Acceptable finishes:   | Clear or color anodized  |
| <br>   |  |
| E. Paint   |  |
| Acceptable materials:  | Any material at the ramp level, such as CMU, that is to be painted shall be painted Sherwin Williams "Black Pearl".  |
| <br>   |  |
| See Section VI Technical Appendix, G, <i>Environmental Criteria and Guidelines</i> , for requirements for any paint applied within the Airport's interior. |  |

CSI Master Specification Division: 07410



**Exterior Metal Wall Panels**  
**Main Terminal**

**Section B20 - Exterior Closure**

**B2010.10**  
**Exterior Wall - Metal Wall Panels**  
4 of 6

CSI Master Specification Division: 07410



**Exterior Metal Wall Panels**  
**Concourse D**



**Section B20 - Exterior Closure**

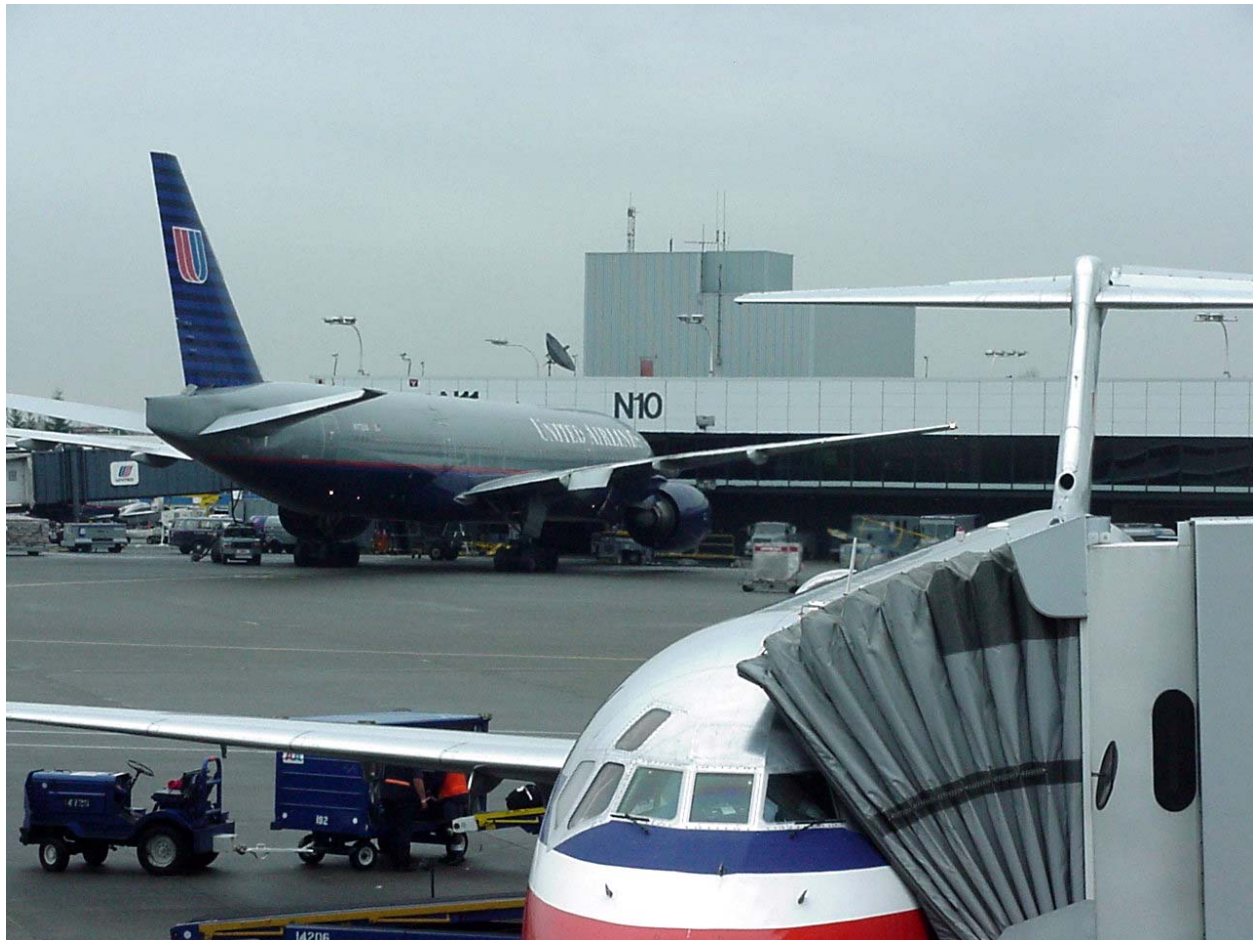
**B2010.10**  
**Exterior Wall - Metal Wall Panels**  
5 of 6

CSI Master Specification Division: 07410



**Exterior Metal Wall Panels**  
**Concourse D**

CSI Master Specification Division: 07410



**Exterior Metal Wall Panels**  
**North Satellite**

CSI Master Specification Division: 07410, 09510

**SUMMARY**

This section covers design requirements, materials and installation of exterior metal soffits.

This section includes information on:

- A. Linear Metal Ceiling System
- B. Metal Panel System
- C. Mineral Fiber Tile

**DESIGN REQUIREMENTS**

- The exterior soffit system along the terminal drive is to match the interior ceiling system within the ticket lobby. Refer to following photograph.
- The terminal drive metal soffit system is an interior/exterior system.
- Verify program use of each adjacent space. Soffits shall be rated as required by code; requirements vary with conditions.
- Soffit system to match adjacent wall panel system.

**MATERIALS/PRODUCTS**

- |                                |  |
|--------------------------------|--|
| A. Linear Metal Ceiling System |  |
| Acceptable materials:          | Match existing panel profile<br>Panel texture to be smooth<br>Perforations to match existing   |
| Acceptable finishes:           | Panels to have baked enamel finish, white color to match existing<br>Panels shall be formed to snap on and be securely retained on carriers without separate fasteners |
| B. Metal Panel System          |  |
| Acceptable materials:          | Minimum 20 gauge corrosion resistant sheet metal   |
| Acceptable finishes:           | Fluoropolymer exterior finish  |
| C. Mineral Fiber Tile          |  |
| Acceptable finishes:           | Used as soffits on ramp level of Concourses B, C, D only<br>Tiles must be white and utilize hold-down clips<br>Refer to following photographs                          |

CSI Master Specification Division: 07410



**Exterior Soffits**  
**Main Terminal**



CSI Master Specification Division: 09510



Exterior Soffit at Ramp Level

CSI Master Specification Division: 09510



Exterior Soffit at Ramp Level



CSI Master Specification Division: 10240

**SUMMARY**

This section covers design requirements, materials and installation of exterior louvers, grilles and screens. Refer to the STIA Mechanical Systems Standards for other relevant considerations.

This section includes information on:

- A. Aluminum
- B. Stainless Steel
- C. Galvanized Steel

**DESIGN REQUIREMENTS**

- All exterior louvers, grilles, and screens to be aluminum, stainless steel, or galvanized steel. Louvers shall be storm proof with 45-degree stationary blades.
- Color and finishes shall match or be visually compatible with adjacent wall finishes.
- Fasteners for aluminum members to be aluminum, stainless steel, or galvanized steel. Fasteners for steel or galvanized steel members to be stainless steel or galvanized steel. Fasteners for stainless steel members to be stainless steel.
- Finish fastener heads, which are exposed to view, to match adjacent surface.
- Preference should be given to materials with a high percentage of recycled content (minimum of 45%) and products manufactured and/or sourced from within 500 miles of the Airport.

**MATERIALS/PRODUCTS**

- A. Aluminum
  - Acceptable materials: Fabricate all blades and frames from extruded aluminum
  - Acceptable finishes: Clear or colored anodized  
Powder coated  
Primed and painted  
Enamel
- B. Stainless Steel
  - Acceptable finishes: No. 4 brushed metal finish  
Stainless steel flat surfaces to be non-directional 100 grit
- C. Galvanized Steel
  - Acceptable finishes: Brushed  
Powder coated  
Primed and painted  
Enamel

CSI Master Specification Division: 05510

**SUMMARY**

This section covers design requirements, materials and installation of exterior metal stairs.

This section includes information on:

- A. Stringers
- B. Treads
- C. Risers
- D. Landings
- E. Steel

**DESIGN REQUIREMENTS**

- All exterior metal stairs to be constructed of steel.
- Steel finish to be hot-dipped galvanized after fabrication.
- Slip resistance shall be addressed.
- Solid treads and risers (with no openings) are required. STIA exterior stairs are occasionally used for passenger loading and unloading.
- The Port of Seattle generally prefers that exterior stairs be covered (verify requirements with Port of Seattle Project Manager).
- Concrete treads are acceptable, subject to approval by the Design Review Committee.
- All bolts shall be galvanized.
- All sites welding shall be treated with a galvanized coating.
- Paint finishes are not allowed.
- Match visual appearance of existing stairs on Concourse B, C and D, refer to following photograph.
- Preference should be given to materials with a high percentage of recycled content (minimum of 45%) and products manufactured and/or sourced from within 500 miles of the Airport.

**MATERIALS/PRODUCTS**

- |              |                       |
|--------------|-----------------------|
| A. Stringers | Steel                 |
| B. Treads    | Steel safety flooring |
| C. Risers    | Steel sheet           |
| D. Landings  | Steel safety flooring |

E. Railings

Steel

**Section B20 - Exterior Closure**

**B2010.40**  
**Exterior Walls - Exterior Metal Stairs**  
2 of 2

CSI Master Specification Division: 05510



**Exterior Metal Stairs**

CSI Master Specification Division: 05520

## **SUMMARY**

This section covers design requirements, materials and installation of metal railings.

This section includes information on:

- A. Steel
- B. Stainless Steel

## **DESIGN REQUIREMENTS**

- Close exposed open ends of railings using same material as used in member.
- Wall mounted handrails shall be returned to the wall.
- Handrails are to be unpainted for ease of maintenance.
- Connections and accessories to be finished to match railing finishes.

## **MATERIALS/PRODUCTS**

- A. Steel
  - Acceptable materials: Hot-dipped galvanized after fabrication
- B. Stainless Steel
  - Acceptable finishes: Sheet material is required to be non-directional, 100 grit  
Formed or cast materials with flat faces are required to be non-directional, 100 grit  
Formed or cast materials with curved or shaped surfaces are required to be no. 4 brushed  
Bead blast finishes, sealers and coatings are not allowed

CSI Master Specification Division: 10340

## **SUMMARY**

This section covers design requirements, materials and installation of apron lighting poles.

This section includes information on:

A. Steel

## **DESIGN REQUIREMENTS**

- All apron lighting poles and connections to the building structure shall be constructed of steel.
- Height of apron lighting poles must conform to limitations and requirements set by the FAA.
- Conform to the visual design and character of existing lighting poles in Concourses B, C and D.
- Design shall include interior wiring with access hand holes.
- Verify requirements in STIA Electrical Systems Standards.
- Refer to following photograph.

## **MATERIALS/PRODUCTS**

A. Steel

Acceptable materials:

Steel finish shall be hot-dipped galvanized after fabrication



CSI Master Specification Division: 10340



Apron Lighting Poles - Building Mounted

CSI Master Specification Division: 09900

## **SUMMARY**

This section covers design requirements, materials and installation related to exterior painting.

This section includes information on:

- A. Powder Coating: Metals
- B. Paint Products: Metals
- C. Paint Products: Concrete
- D. Liquid Applied System
- E. Opaque Cementitious Paint System

## **DESIGN REQUIREMENTS**

- Finishes shall be cleanable and abrasion resistant.
- Allow for ease of matching finishes in-situ.
- NOTE: See Section VI Technical Appendix, G. *Environmental Criteria and Guidelines*, for requirements concerning paint used within the interior of the Airport.

## **MATERIALS/PRODUCTS**

- A. Powder Coating: Metals

Acceptable materials:

Opaque, translucent or transparent system appropriate for metal paint finish scheduled tubing and sheet material

Minimum 70-micron thick TGIC polyester based coating; prepare, pre-treat and apply coating to exposed metal surfaces to comply with coating manufacturer instructions

Primer and base coats as per manufacturer requirements

- B. Paint Products: Metals

Acceptable materials:

Primer: zinc-rich non-ferrous urethane primer, high solids polyamide epoxy or urethane, recommended by topcoat manufacturer for adhesion to new galvanized surfaces and compatibility with finish coat material

Intermediate coat: high solids polyamide epoxy or urethane

Finish coat: urethane

**Section B20 - Exterior Closure**

**B2010.70**

**Exterior Walls - Exterior Painting**

2 of 2

CSI Master Specification Division: 09900

**C. Paint Products: Concrete**

Acceptable materials:

Primer: exterior masonry acrylic primer, low-sheen

Intermediate coat: same as topcoat

Topcoat: exterior masonry acrylic flat coating, low sheen

**D. Liquid Applied System**

Acceptable materials:

Shall be appropriate for all paint finish scheduled  
substrate material

**E. Opaque Cementitious Paint System**

Acceptable materials:

Water based system compatible with substrate and  
appropriate to conditions of exposure

Acceptable finishes:

Sand aggregates may be used to achieve visual  
requirements

CSI Master Specification Division: N/A

## **SUMMARY**

This section covers design requirements, materials and installation related to parapets.

## **DESIGN REQUIREMENTS**

- Parapets, cants and curbs should be used to provide an overall pleasing and unified appearance for the building facade, concealing unsightly or complex roofscapes. Their design should respond to the specific conditions and sight lines of the individual project.
- All parapet construction and design must meet all local and applicable codes.

## **MATERIALS/PRODUCTS**

N/A

CSI Master Specification Division: 08500

**SUMMARY**

This section covers design requirements, materials and installation of metal exterior windows.

Related sections:

C2010.10	Exterior Walls - Metal Wall Panels
B2020.50	Exterior Windows - Glazing
B2020.60	Window Hardware and Accessories

This section includes information on:

- A. Aluminum Exterior Windows
- B. Stainless Steel Exterior Windows
- C. Exterior Window Glazing
- D. Painted Steel

**DESIGN REQUIREMENTS**

- Colors and finishes shall match or be compatible with the existing exterior window wall system.
- Energy performance shall be an important criteria of window selection. The energy performance of all new window assemblies must meet or exceed that of adjacent window systems.
- Ensure uniformity of color and visual appearance of all frame components and glazing surfaces.
- Windows can either be single or multiple fixed lites. Exterior operable windows are not allowed.
- Fasteners shall be concealed wherever practical, using the same metal type as that which is being fastened.
- Refer to following photographs.
- Preference will be given to products that contain a high percentage of recycled content and are manufactured and/or sourced from within 500 miles of the airport.

**MATERIALS/PRODUCTS**

- A. Aluminum Exterior Windows
  - Acceptable frame finishes: Clear or color anodized  
Powder coating
- B. Stainless Steel Exterior Windows



Acceptable finishes:

No. 4 brushed

C. Exterior Window Glazing

Refer to Section C2020.50

**Section B20 - Exterior Closure**

**B2020.10**

**Exterior Windows - Standard Exterior Windows**

2 of 4

CSI Master Specification Division: 08500

**D. Painted Steel**

Used for ramp level glazing only, where approved by the  
Design Review Committee

Acceptable finishes:

"Black Pearl" by Sherwin Williams

**Section B20 - Exterior Closure**

**B2020.10**

**Exterior Windows - Standard Exterior Windows**

3 of 4

CSI Master Specification Division: 08500



Exterior Windows  
Main Terminal

CSI Master Specification Division: 08500



Exterior Windows  
Concourse D

CSI Master Specification Division: 08900

## **SUMMARY**

This section covers design requirements, materials and installation of glazed aluminum curtain walls.

Related sections:

B2020.50      Exterior Windows - Glazing

This section includes information on:

- A. Glazed Aluminum Curtain Walls
- B. Glazing

## **DESIGN REQUIREMENTS**

- Ensure uniformity of color and visual appearance of all frame components and glazing surfaces.
- Coordinate the aluminum framing system interface with other exterior closure trades so as to provide for the proper functioning of the combined exterior wall system components.
- Single source responsibility to be maintained for the entire system including fabrication, installation and total coordination of all components of the curtain wall work.
- Curtain wall system shall meet all pertinent structural requirements and weather resistance requirements.
- Exposed fasteners finished to match adjacent aluminum.
- Provide stainless steel protection cover with non-directional, 100 grit, brushed finish along sill mullions at floor.

## **MATERIALS/PRODUCTS**

- A. Glazed Aluminum Curtain Walls

Acceptable frame finishes:

Exterior and interior aluminum to have a three-coat spray shop-applied high performance fluorocarbon coating with a minimum of 70% Kynar 500 resin

Acceptable suppliers:

Benson Industries  
Flour City Architectural  
Harmon Glass

**Section B20 - Exterior Closure**

**B2020.20**

**Exterior Windows - Glazed Aluminum Curtain Walls**

2 of 4

CSI Master Specification Division: 08900

B. Glazing

Acceptable glass manufacturers:

Refer to Section B2020.50

Guardian

PPG

Cardinal

Viracon

CSI Master Specification Division: 08900



Concourse A (Future)  
Model



CSI Master Specification Division: 08900



South Hall (Future)  
Model

CSI Master Specification Division: 08970

## **SUMMARY**

This section covers design requirements, materials and installation of exterior structural glass curtain walls.

Related sections:

B2020.50      Exterior Windows - Glazing

This section includes information on:

A. Structural Glass Curtain Walls

## **DESIGN REQUIREMENTS**

- Coordinate the structural glass curtain wall interface with other exterior closure trades so as to provide for the proper functioning of the combined exterior wall system components.
- Single source responsibility to be maintained for the entire system including fabrication, installation and total coordination of all components of the curtain wall work.
- Curtain wall system shall meet all pertinent structural requirements and weather resistance requirements.

## **MATERIALS/PRODUCTS**

A. Structural Glass Curtain Walls

Acceptable materials:

Laminated tempered glass  
Insulated units  
Suspended or ground-supported  
Fittings or metal mullions  
Glass fins

CSI Master Specification Division: 08950

**SUMMARY**

This section covers design requirements, materials and installation of translucent fiberglass walls and skylight systems.

This section includes information on:

- A. Aluminum Extrusions
- B. Skylight Systems
- C. Accessories

**DESIGN REQUIREMENTS**

- Coordinate the interface with other exterior closure trades so as to provide for the proper functioning of the combined exterior wall system components.
- Ensure uniformity of color and visual appearance of all frame components and glazing surfaces.
- Single source responsibility to be maintained for the entire system including fabrication, installation and total coordination of all components of the work.
- Shall meet all pertinent structural requirements, weather resistance requirements, and leakage control requirements.

**MATERIALS/PRODUCTS**

- A. Aluminum Extrusions
  - Acceptable finishes: Fluoropolymer finish: multiple coats; thermally cured; non-specular; as fabricated mechanical finish; acid chromate-fluoride-phosphate chemical coating
  - Acceptable products: Kynar 500 coating system  
Hylar 5000 coating system
- B. Skylight Systems
  - Acceptable manufacturers: Kalwal  
Skywall
- C. Accessories
  - Acceptable materials: Glazing gaskets, manufacturer standard extruded heat-cured silicone rubber  
Structural glazing adhesive; manufacturer recommended neutral curing silicone sealant

CSI Master Specification Division: 08950



Translucent Walls

CSI Master Specification Division: 08800

## **SUMMARY**

This section covers design requirements, materials and installation of exterior glazing.

Related sections:

B2020.10	Standard Exterior Windows
B2020.20	Glazed Aluminum Curtain Walls
B2020.30	Structural Glass Curtain Walls

This section includes information on:

### **A. Glazing**

## **DESIGN REQUIREMENTS**

- Gray tinted insulated glass to be used at concourses to relate to existing Concourses B, C and D. It is preferable that new glazing be lighter than the existing at the concourses. Within energy conservation goals increase natural daylight transmittance and enhance visibility.
- Clear low-E coated insulated glass is to be used in custom designed curtain wall, as used in the International Arrivals Hall.
- As translucent insulating panel is used as a secondary glazing material at Concourses B, C and D, new concourses may also use translucent insulating panel in a similar manner. Presently, Concourses B, C and D use translucent insulating panels by "Kalwall".
- Gray glass that is lighter than, but still compatible with, the existing dark gray glass at the Main Terminal shall be utilized in Main Terminal extensions.
- Translucent glazing will be required where visibility must be obscured. In such cases fritted glazing is preferred over sandblasting. Sandblasted finish to be used only in areas not accessible to the public.
- Float glass shall be 1/4" minimum thickness.
- Heat-treated float glass shall be 1/4" minimum thickness.
- Insulated glass shall be double glazed, dual sealed units, with air space between panes hermetically sealed with silicone at the perimeter of the unit.
- Vision glass shall be heat strengthened.
- Radar reflection on glass must be taken into consideration, for all airside exterior glazing, refer to "FAA Requirements" in Section I.
- Specify performance criteria for solar energy transmittance, shading co-efficient, ultraviolet transmittance, visible light transmittance and infrared transmittance.
- Exterior windows to have a Sound Transmission Class (STC) rating of 38 minimum.

**Section B20 - Exterior Closure**

**B2020.50**

**Exterior Windows - Glazing**

2 of 2

CSI Master Specification Division: 08800

**MATERIALS/PRODUCTS**

A. Glazing

Acceptable materials:

Clear insulated glass with low-E coating  
Clear insulated glass with low-E coating, with frit pattern  
Gray insulated glass, uncoated  
Gray insulated glass, uncoated, with sandblast  
Gray monolithic glass, uncoated  
Gray insulated glass with low-E coating  
Gray laminated insulated glass  
Translucent laminated glass

Acceptable manufacturers:

Viracon  
PPG  
LOF  
Guardian

CSI Master Specification Division: 08750

## **SUMMARY**

This section covers design requirements, materials and installation of exterior window hardware and accessories.

Related sections:

B2020.10	Standard Exterior Windows
B2020.40	Translucent Wall and Skylight Systems
B2020.50	Glazing

This section includes information on:

- A. Exterior Glazing Gaskets
- B. Interior Wedge Gaskets

## **DESIGN REQUIREMENTS**

- Hardware and accessories, when not concealed, must use the same basic materials as the window components to which they are attached, and have a compatible, if not matching, finish.

## **MATERIALS/PRODUCTS**

- |                             |   |
|-----------------------------|---|
| A. Exterior Glazing Gaskets |   |
| Acceptable materials:       | Cellular neoprene with shop molded corners                |
| B. Interior Wedge Gaskets   |   |
| Acceptable materials:       | Non-cellular neoprene with molded corners at vision areas |



CSI Master Specification Division: 08400

**SUMMARY**

This section covers design requirements, materials and installation of exterior entrance doors and frames.

Related sections:

B2030.30	Exterior Doors - Door Hardware
B2030.40	Exterior Doors - Glazing

This section includes information on:

- A. Stainless Steel Doors and Frames
- B. Aluminum Doors and Frames
- C. Glazing
- D. Painted Steel

**DESIGN REQUIREMENTS**

- All exterior entrance doors to be automatic sliding type doors.
- All exterior doors to have metal frame of stainless steel or aluminum.
- No exposed fasteners are allowed.
- All exterior doors to have full height glass.
- Automatic doors are to be the overhead motion sensing type.
- Preference will be given to products that contain a high percentage of recycled material and that are manufactured and/or sourced from within 500 miles of the Airport.

**MATERIALS/PRODUCTS**

- |                                     |   |
|-------------------------------------|---|
| A. Stainless Steel Doors and Frames |   |
| Acceptable finishes:                | Matte finish exposed, oiled   |
| B. Aluminum Doors and Frames        |   |
| Acceptable finishes:                | Clear or colored anodized<br>Color powder coated  |
| C. Glazing                          | Refer to Section B2030.40   |
| D. Painted Steel                    | Use only for exterior ramp level doors and frames, where<br>approved by the Design Review Committee |
| Acceptable finishes:                | "Black Pearl" by Sherwin Williams   |

CSI Master Specification Division: 08100

**SUMMARY**

This section covers design requirements, products and installation of exterior metal doors and frames

This section includes information on:

- A. Metal Door Frames
- B. Metal Doors
- C. Overhead Roll-up Doors

**DESIGN REQUIREMENTS**

- Exterior exit doors are to have required panic hardware.

**MATERIALS/PRODUCTS**

- |                           |   |
|---------------------------|---|
| A. Metal Door Frames      |   |
| Acceptable materials:     | Anodized aluminum: clear or colored; powder coated<br>Stainless steel: No. 4 brushed  |
|                           |   |
| B. Metal Doors            |   |
| Acceptable materials:     | Anodized aluminum: clear or colored; powder coated<br>Stainless steel: metal finish, No. 4 brushed<br>Hollow metal exterior doors: paint finish |
|                           |   |
| C. Overhead Roll-Up Doors |   |
| Acceptable materials:     | Galvanized<br>Non-painted<br>Fabric (used for high-speed roll-up doors at the ramp level)   |

CSI Master Specification Division: 08100



**Exterior Overhead Door**

**Section B20 - Exterior Closure**

**B2030.20**

**Exterior Doors - Metal Exterior Doors and Frames**

3 of 3

CSI Master Specification Division: 08100

*Photograph to follow*

High-Speed Roll-Up Door

CSI Master Specification Division: 08710

**SUMMARY**

This section covers design requirements, products and installation of door hardware.

This section includes information on:

- A. Hardware
- B. Accessories

**DESIGN REQUIREMENTS**

- Finishes and hardware types to be specified by the Port of Seattle.
- At all locations where fire-rated door and frame assemblies are required, provide assemblies which comply with the applicable National Fire Protection Association (NFPA) requirements and have been tested and labeled in accordance with ASTM standards by agency acceptable to governing authorities.
- UL Listing as required by code.

**MATERIALS/PRODUCTS**

- A. Hardware
  - Acceptable materials: Best Cylinders or Intellikey  
Finish US26D, verify hardware requirements with Port of  
Seattle General Foreman, Lock and Key Shop
- B. Accessories
  - Acceptable materials: Public exterior doors shall have a stainless steel  
kickplate, standard height is 12"; in areas of high use  
the height shall be 18"
  - Preference shall be given to products with a high  
percentage of recycled content (minimum of 45%).

CSI Master Specification Division: 08800

## **SUMMARY**

This section covers design requirements, materials and installation of exterior glazing in relation to exterior doors.

Related sections:

B2030.10	Exterior Doors - Public Entrance Doors and Frames
B2030.20	Exterior Doors - Metal Exterior Doors and Frames

This section includes information on:

### **A. Glazing Types**

## **DESIGN REQUIREMENTS**

- All door glazing must match adjacent window or curtain wall system glazing.
- Float glass shall be a minimum 1/4" thick.
- Heat-treated float glass shall be minimum 1/4" thick.
- Insulated glass shall be double-glazed, and dual sealed with air space between panes hermetically sealed with silicone at the perimeter of the unit.
- Vision glass is to be heat strengthened.
- Specify performance criteria for solar energy transmittance, shading co-efficient, ultraviolet transmittance, visible light transmittance and infrared transmittance.
- All exterior doors to have a Sound Transmission Class (STC) rating of 33 minimum.

## **MATERIALS/PRODUCTS**

### **A. Glazing Types**

Acceptable materials:

Clear insulated glass with low-E coating  
Clear insulated glass with low-E coating, with frit pattern  
Gray insulated glass, uncoated  
Gray insulated glass, uncoated, with sandblast  
Gray monolithic glass, uncoated  
Gray insulated glass with low-E coating  
Gray laminated insulated glass

Acceptable manufacturers:

Viracon  
PPG  
LOF  
Guardian

CSI Master Specification Division: 07500

**SUMMARY**

This section covers design requirements, materials and installation of membrane roofing.

This section includes information on:

- A. System Type
- B. Roof Type
- C. Walking Treads
- D. Reinforcement
- E. Fasteners

**DESIGN REQUIREMENTS**

- All membrane roofing shall be reinforced PVC single-ply membrane roofing.
- At roof walkways, penthouse door entries and other high traffic roof areas, walking treads shall be provided with a color contrasting to the field color to clearly define the pathways.
- Color to be approved by the Port of Seattle.
- Flame spread shall be a minimum 25 when tested in accordance with ASTM E84.
- Roofing shall meet Factory Mutual requirements for conditions of use, including minimum 1-120 Wind test at the Port of Seattle.
- Submit roof sections and construction details to the Port of Seattle Project Manager, for review with the Port of Seattle roofing consultant.

**MATERIALS/PRODUCTS**

- A. System Type  
Acceptable materials: Mechanically fastened over metal deck; seams hot air welded; fully adhered over insulating substrate
- B. Roof Type  
Acceptable materials: Typical roof field: 60 mil white or off-white PVC membrane  
Roof fields with limited access control and subject to moderate walking over the entire roof surface: 80-mil white or off-white PVC membrane
- C. Walking Treads  
Acceptable materials: 24" wide 90 mil PVC walking tread/pad, welded onto surface of 60 mil roofing membrane  
Color: light gray



**Section B30 - Roofing**

**B3010.10**  
**Roof Coverings - Membrane Roofing**  
2 of 2

CSI Master Specification Division: 07500

D. Reinforcement

Acceptable materials: Polyester

E. Fasteners

Acceptable materials: Galvanized steel: plain or with factory applied corrosion  
resistant coating

Acceptable manufacturers: Sarnafil Inc.  
Johns Manville  
Durolast

CSI Master Specification Division: 07610

## **SUMMARY**

This section covers design requirements, materials and installation of sheet metal roofing.

This section includes information on:

A. Sealant

## **DESIGN REQUIREMENTS**

- All sheet metal shall meet SMACNA Standards.
- Use only screw fasteners with integral cap and grommet. Face fasten sheet metal only. Fasteners to be compatible with the metal through which it is fastened.
- Do not use pop rivets on exposed sheet metal details.
- Choose a light color for high reflectivity.
- Give preference to material with a high percentage of recycled content (45% minimum).

## **MATERIALS/PRODUCTS**

A. Sealant

Acceptable materials:

Urethane construction sealant only

Acceptable products:

Kemcaulk 900

Sikaflex

Vulkem

CSI Master Specification Division: 08600

## **SUMMARY**

This section covers design requirements, materials and installation of skylights.

This section includes information on:

- A. Aluminum Extrusions
- B. Skylight Systems
- C. Glazing

## **DESIGN REQUIREMENTS**

- Ensure uniformity of color and visual appearance of all frame components and glazing surfaces.
- Single source responsibility to be maintained for the entire system; including fabrication, installation and total coordination of all components of the work.
- Skylight shall meet all pertinent structural requirements, energy efficiency, weather resistance and leakage control requirements..

## **MATERIALS/PRODUCTS**

- A. Aluminum Extrusions
  - Acceptable finishes: Fluoropolymer finish: multiple coats; thermally cured; non-specular, as fabricated mechanical finish; acid chromate-fluoride-phosphate chemical coating
  - Acceptable products: Kynar 500 coating system  
Hylar 5000 coating system
- B. Skylight Systems
  - Acceptable manufacturers: Okeeffe's, Inc.  
Super Sky Products, Inc.  
Evergreen House  
DeaMor  
Kalwal
- C. Glazing
  - Acceptable materials: Match existing skylights gray insulated glass with high performance low-E coating

CSI Master Specification Division: N/A

## **SUMMARY**

This section covers design requirements, materials and installation of interior Gypsum Wallboard (GWB) wall partitions.

Related sections:

C3010.10 Interior Wall Finishes - Plastic Laminate Panels  
C3010.20 Interior Wall Finishes - Wood Panels  
C3010.30 Interior Wall Finishes - Metal Wall Panels  
C3010.40 Interior Wall Finishes - Gypsum Board Wall Finishes  
C3010.50 Interior Wall Finishes - Fiber Reinforced Plastic Coated Panels  
C3010.60 Interior Wall Finishes - Interior Wall Painting  
C3010.70 Interior Wall Finishes - Wall Coverings

## **DESIGN REQUIREMENTS**

- Partition construction shall meet all applicable codes.
- All wall finishes and colors shall be neutral, light, and subtle.
- Gypsum wallboard finishes shall only be used in areas on wall or column covers which are not susceptible to damage and not accessible to the public. The exception shall be for use on temporary walls and columns as approved by the Port of Seattle Project Manager.
- In high traffic areas, a durable finish shall be used as a removable wainscot for protection from people and carts. In general the lowest 24" of walls receive the most damage, therefore a removable wainscot or base is required so that maintenance will not need to remove the entire wall panel if this section needs repair or replacement,
- Wainscot standard height shall be 35" to align with existing and future wainscot heights and the standard handrail height. Refer to Section C3010.10 for wainscot details of interior wall finishes.
- In general, GWB surfaces unless part of design theme, shall be painted with Sherwin Williams "Port Brew Super White", zero VOC, eggshell finish paint.
- In general, for maintenance purposes, wall surfaces shall have no texture.
- Preference is given to gypsum wallboard with a high percentage of recycled content and sourced from within 500 miles of the project site.

## **MATERIALS/PRODUCTS**

- Refer to Section VI Technical Appendix, G. *Environmental Criteria and Guidelines*, for information regarding acceptable paint products and processes.

Refer to related sections for detailed information.

CSI Master Specification Division: 05520

**SUMMARY**

This section covers design requirements, materials and installation of interior railings.

Related sections:

B2010.60	Exterior Walls - Metal Railings
C1010.50	Interior Glazed Partitions and Storefronts

This section includes information on:

- A. Glass Railing
- B. Metal Positive Claim Rail
- C. Stairwell/Ramp Railings
- D. Railings at Seismic Braces

**DESIGN REQUIREMENTS**

- Railings, guardrails, and metalwork shall be shop fabricated per code and industry standards.
- Guardrails shall conform to all applicable codes.
- Aluminum railings are not allowed.
- Glass panel sizes shall be selected to ensure easy removal and re-installation. Panels that are too heavy may be cumbersome and would need extra measures for safe handling.
- All rails and guardrails are to be provided with a 4" high base.
- Preference is given to products and materials with a high percentage of recycled content. All stainless steel components shall include a minimum of 45% recycled steel.

**MATERIALS/PRODUCTS**

A. Glass Railings

Acceptable materials:

Clear glazing with stainless steel handrail and base; base is required to protect the glass from maintenance procedures and carts; refer to typical detail

Acceptable finishes:

Stainless steel base: sheet material sanded finish is required to be: non-directional, 100 grit  
Formed or cast materials with flat faces are required to have sanded finish that is non-directional, 100 grit  
Formed or cast materials with curved or shaped surfaces are required to have a no. 4 brushed finish

Bead blast finishes, sealers and coatings are not allowed.



## Section C10 - Interior Construction

## C1010.20

### Railings

2 of 10

CSI Master Specification Division: 05520

- |                               |   |
|-------------------------------|---|
| Acceptable manufacturers:     | Julius Blum<br>Blumcraft<br>Livers Bronze Company<br>Newman Brothers Inc.: Econorail™ glass rail system |
| <br>                          |   |
| B. Metal Positive Claim Rails |   |
| Acceptable materials:         | Stainless steel handrail and base with perforated metal screen, refer to following photograph           |
| Acceptable finishes:          | Refer to above notes on stainless steel finishes  |
| <br>                          |   |
| C. Stairwell/Ramp Railings    |   |
| Acceptable materials:         | Stainless steel, refer to above notes on stainless steel finishes                                       |
| <br>                          |   |
| D. Railings at Seismic Braces |   |
| Acceptable materials:         | Stainless steel rails and handrails, for maintenance purposes infill panels and bases are not allowed   |
| Acceptable finishes:          | Refer to above notes on stainless steel finishes  |

**Section C10 - Interior Construction**

**C1010.20**

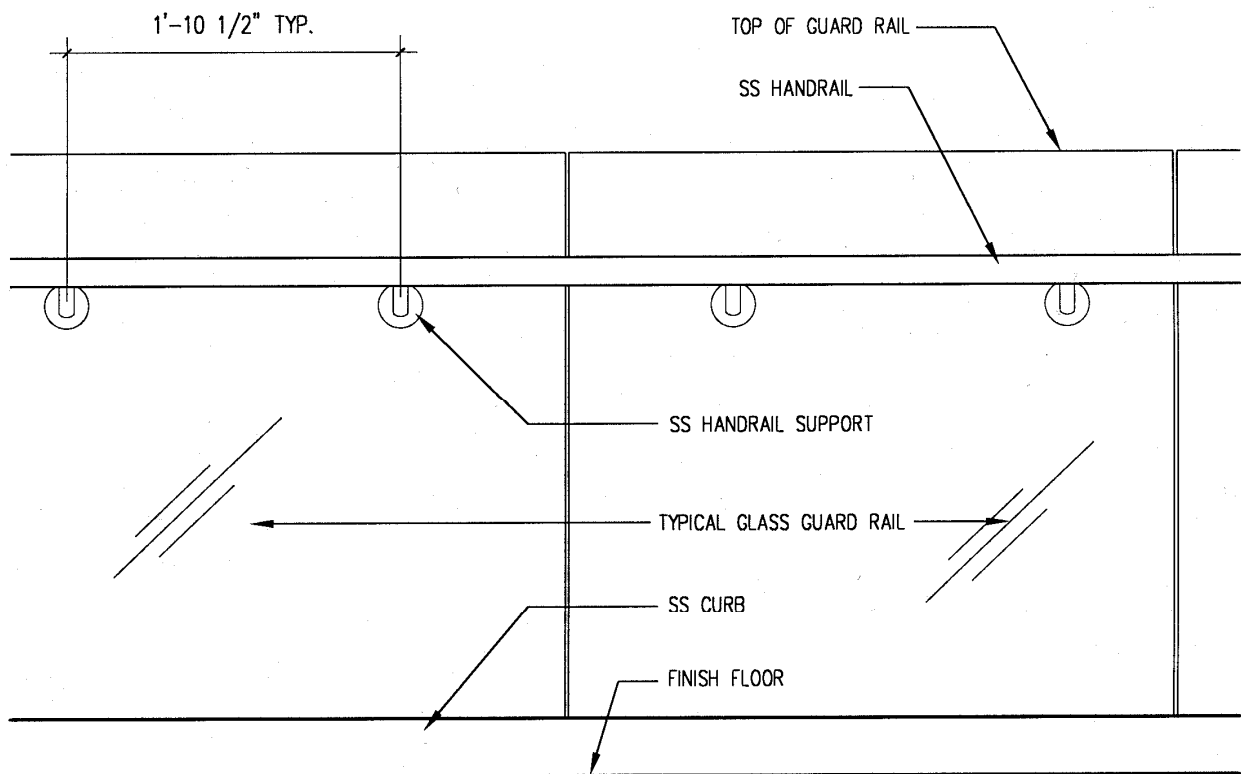
**Railings**

3 of 10

CSI Master Specification Division: 05520

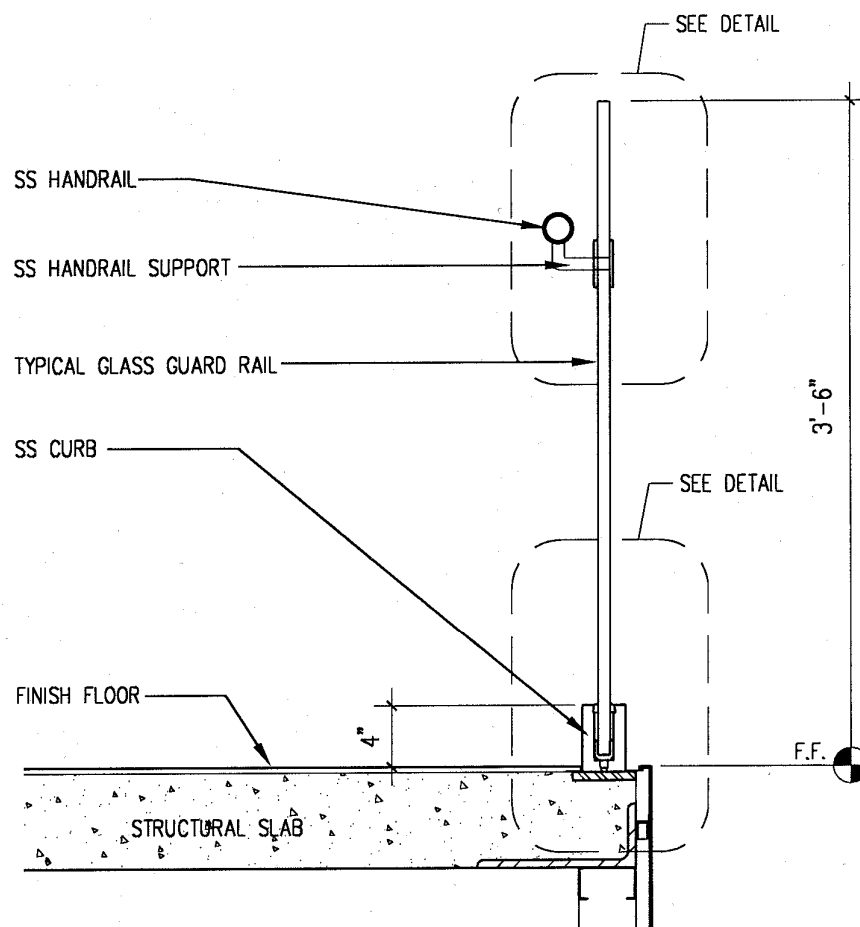


Metal Positive Claim Rail  
Baggage Claim



## TYPICAL GUARD RAIL ELEVATION

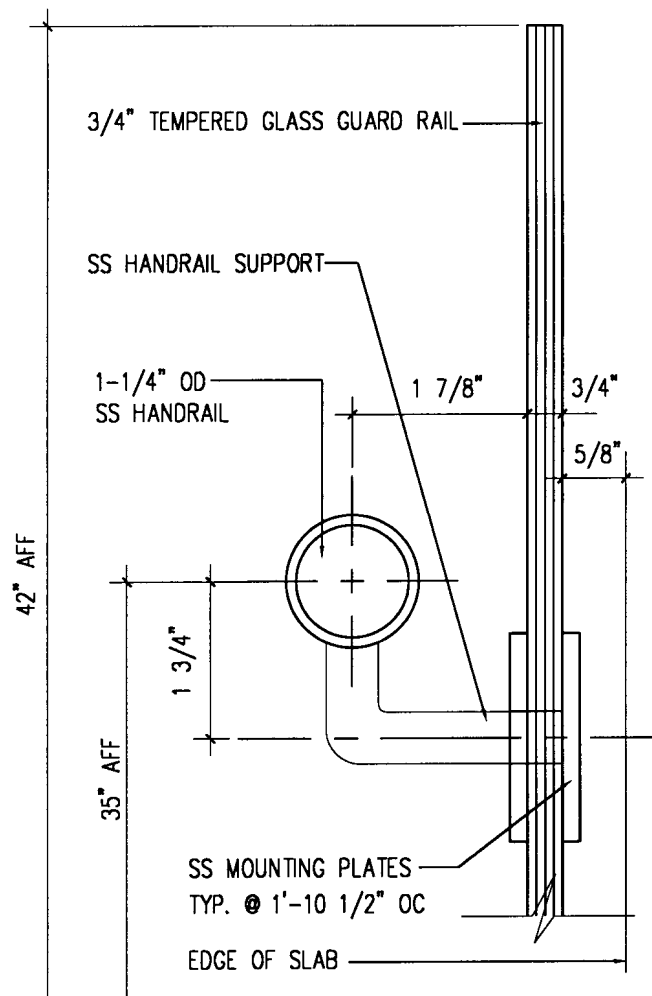
NTS; For Reference Only



## TYPICAL GUARD RAIL SECTION

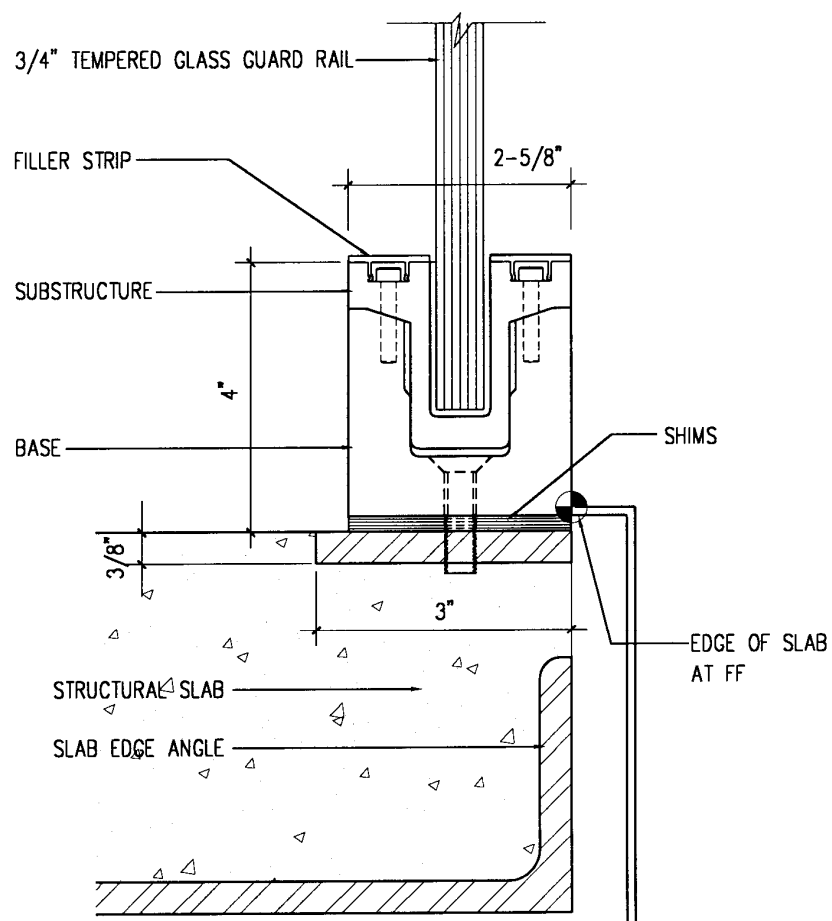
NTS; For Reference Only

CSI Master Specification Division: 05520



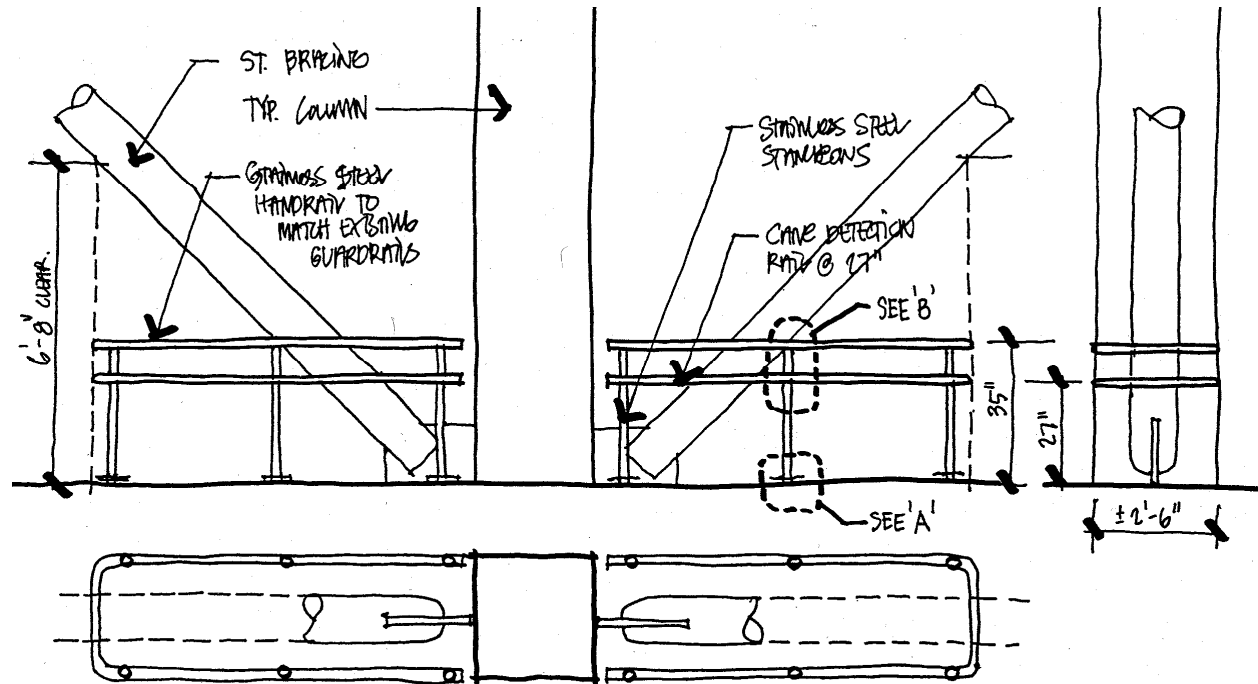
## GLASS GUARD RAIL TYPICAL DETAIL @ TOP

NTS; For Reference Only



## GLASS GUARD RAIL TYPICAL DETAIL @ BASE

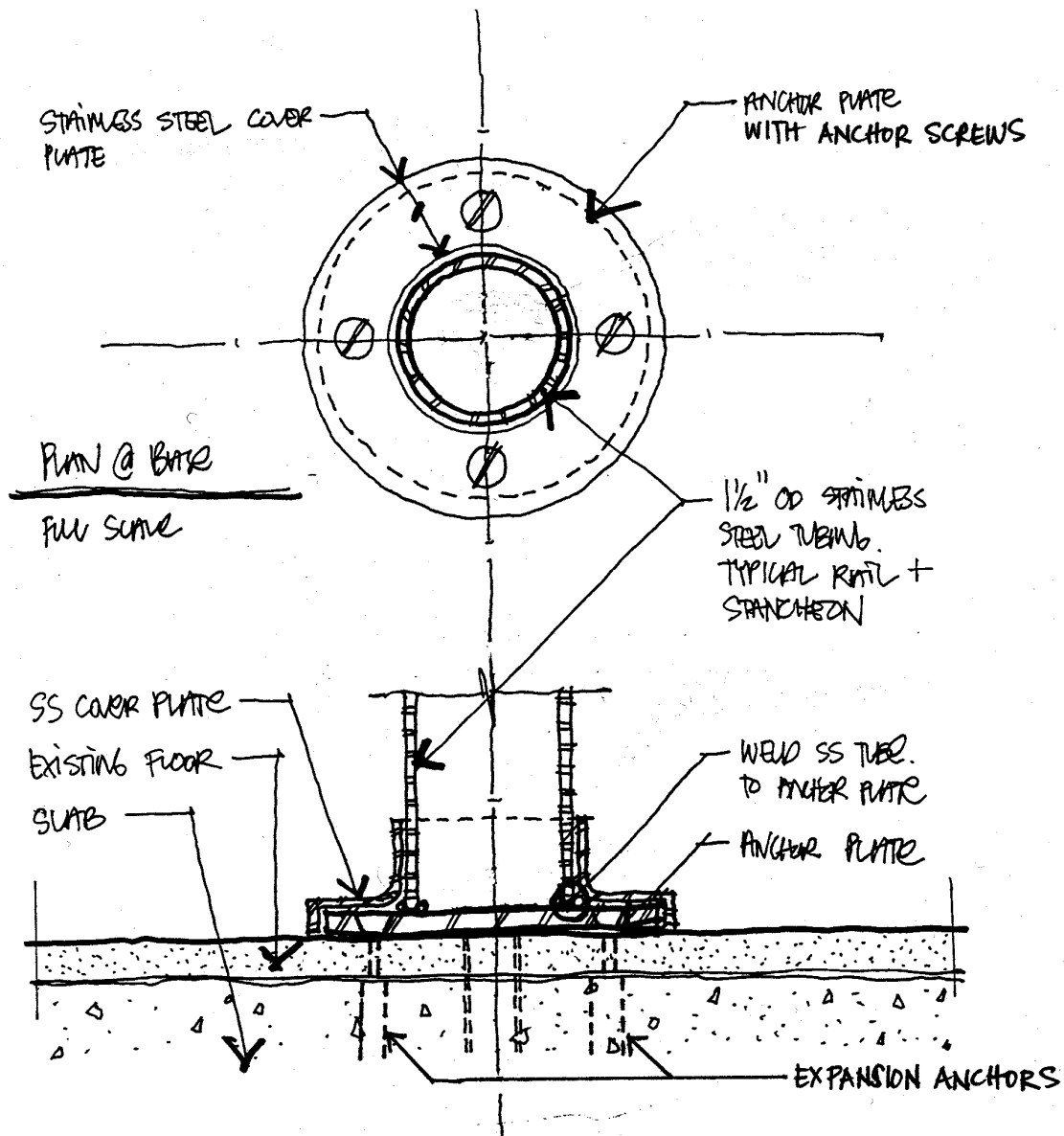
NTS; For Reference Only



## PLAN AND ELEVATION TYPICAL GUARDRAIL AT SEISMIC BRACES

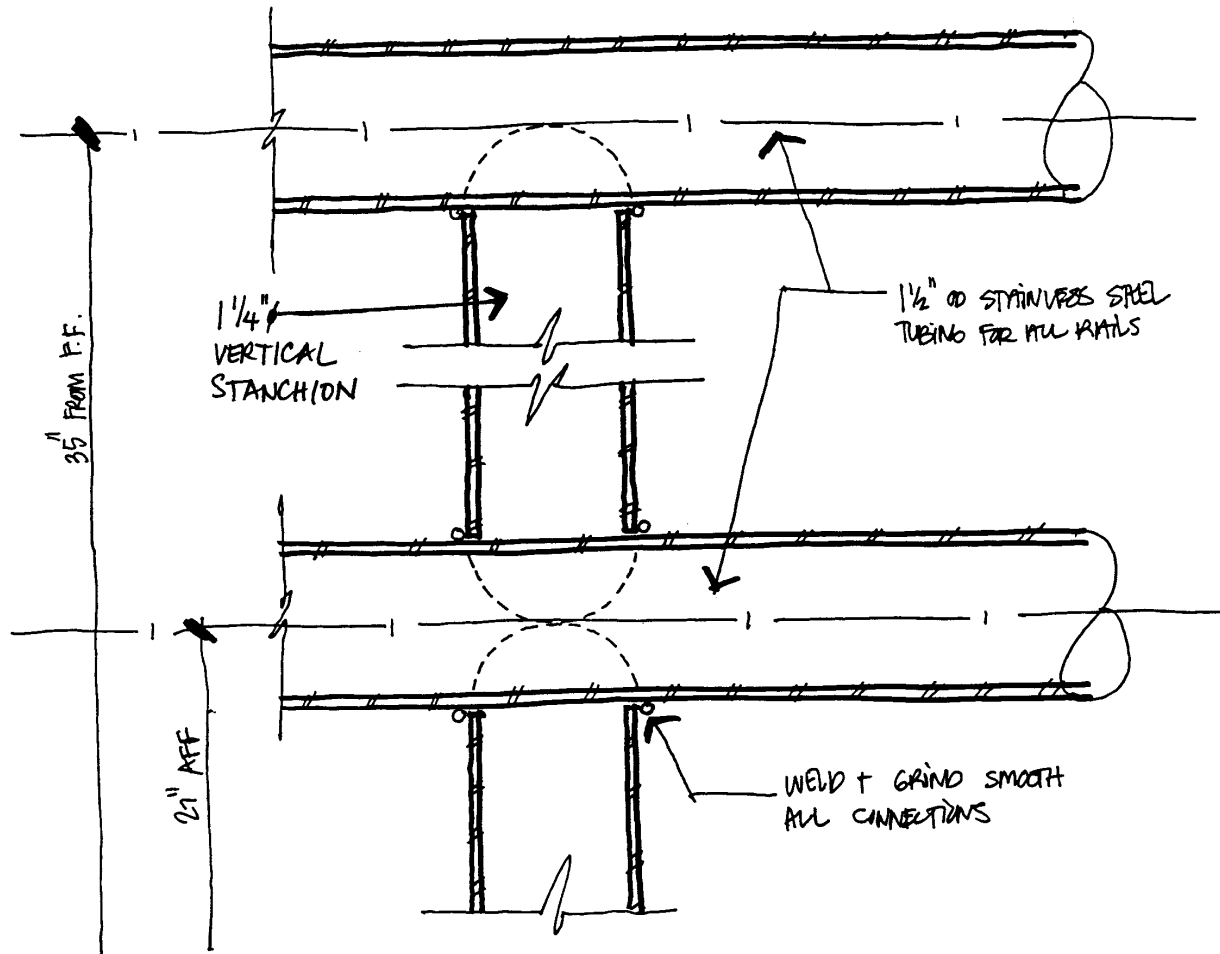
NTS; For Reference Only





## SECTION A: @ BASE

NTS; For Reference Only



## SECTION B: THRU VERTICAL STANCHION

NTS; For Reference Only

CSI Master Specification Division: 10240

## **SUMMARY**

This section covers design requirements, materials and installation of interior HVAC grilles.

Related sections:

See STIA Mechanical Systems Standards: Grilles, Registers and Diffusers

This section includes information on:

- A. Aluminum
- B. Stainless Steel
- C. Galvanized Steel

## **DESIGN REQUIREMENTS**

- All HVAC grilles shall be installed visually symmetrical and compatible with surrounding architectural elements.
- Grilles shall have a minimum 60% net free area.
- Color of grilles to match color of surrounding wall, subject to approval by the Port of Seattle.
- Blank-off panels to be fabricated from sheet metal, same metal and finish as louvers.

## **MATERIALS/PRODUCTS**

A. Aluminum  
Acceptable finishes: Enamel (typical); Shop applied? What kind of enamel?  
Add shop applied and low VOCs, but do not specify type.  
Fluoropolymer finish (optional) Shop-applied? Same as above.

B. Stainless Steel  
Acceptable finishes: Sheet material is required to be non-directional, 100 grit  
Formed or cast materials with flat faces are required to be non-directional, 100 grit  
Formed or cast materials with curved or shaped surfaces are required to be no. 4 brushed  
Bead blast finishes, sealers and coatings are not allowed

C. Galvanized Steel  
Acceptable finishes: Painted With what? Shop-applied? Same as above.

CSI Master Specification Division: 08500

## **SUMMARY**

This section covers design requirements, materials and installation of interior windows and glazing.

This section includes information on:

- A. Metal Window Frames
- B. Glazing

## **DESIGN REQUIREMENTS**

- Transparent glazing to be clear, non-colored glass.
- Translucent glazing will be required where visibility must be obscured. In such cases fritted glazing is preferred over sandblasting. Sandblasted finish to be used only in areas not accessible to the public.
- Where safety glazing is required, provide certified safety glazing.
- All glazing shall be tempered. Cut glass to size and shape and drill holes prior to tempering.
- Grind exposed edges smooth, using methods recommended by the manufacturer.
- Submit minimum 12" square samples for each glass type except clear monolithic glass.
- Window frames shall be unpainted for ease of maintenance.

## **MATERIALS/PRODUCTS**

### **A. Metal Window Frames**

Acceptable materials: Aluminum Do you still want Aluminum or do you wish to begin substituting Stainless Steel for all? Retain aluminum.  
Stainless steel

### **B. Glazing**

Acceptable materials: Clear glass  
Translucent laminated glass  
Sandblasted glass  
Fritted glass

CSI Master Specification Division: 08400

## **SUMMARY**

This section covers design requirements, materials and installation of interior glazed partitions.

Related sections:

C1010.20 Interior Construction - Railings

This section includes information on:

- A. Glazed Partitions and Storefronts
- B. Glazing
- C. Stainless Steel

## **DESIGN REQUIREMENTS**

- Glass partitions shall be of clear glass, sandblasted float glass, monolithic, fritted, or translucent glass only.
- Translucent or sandblasted glazing will be required where vision must be obscured.
- All glazing must be tempered. Cut glass to size and shape and drill holes prior to tempering.
- Glass panel sizes shall allow easy removal and re-installation. Panels that are too heavy may be cumbersome and would need extra measures for safe handling.
- Glass panels to be butt-jointed, no horizontal mullions.
- There shall be no mullions at the top of full-height partitions. All head supports shall be concealed in ceiling, and detailed per structural requirements.
- In cases where the glass panel height or width will exceed the limits set by the manufacturer, and will require mullions for support, the design shall be in keeping with current design and shall be submitted to the Design Review Committee for approval.
- Full height partitions at security areas are to be continuous along the floor to prevent the passing of items below.
- All glass partitions, free standing or with top supports, must have a stainless steel base of 4" height to match the standard glass guardrail system.
- Sandblasted glazing is not to be used where accessible to the public (fingerprints show easily).
- Where safety glazing is required, provide certified safety glazing.
- Grind exposed edges smooth, using methods recommended by manufacturer.
- Curved glazing may be used upon approval of the Design Review Committee.
- Preference shall be given to glass made with a high percentage of recycled content.

CSI Master Specification Division: 08400

**MATERIALS/PRODUCTS**

**A. Glazed Partitions and Storefronts**

Acceptable manufacturers:

Julius Blum/Blumcraft  
Livers Bronze Company  
Newman Brothers Inc.

**B. Glazing**

Acceptable materials:

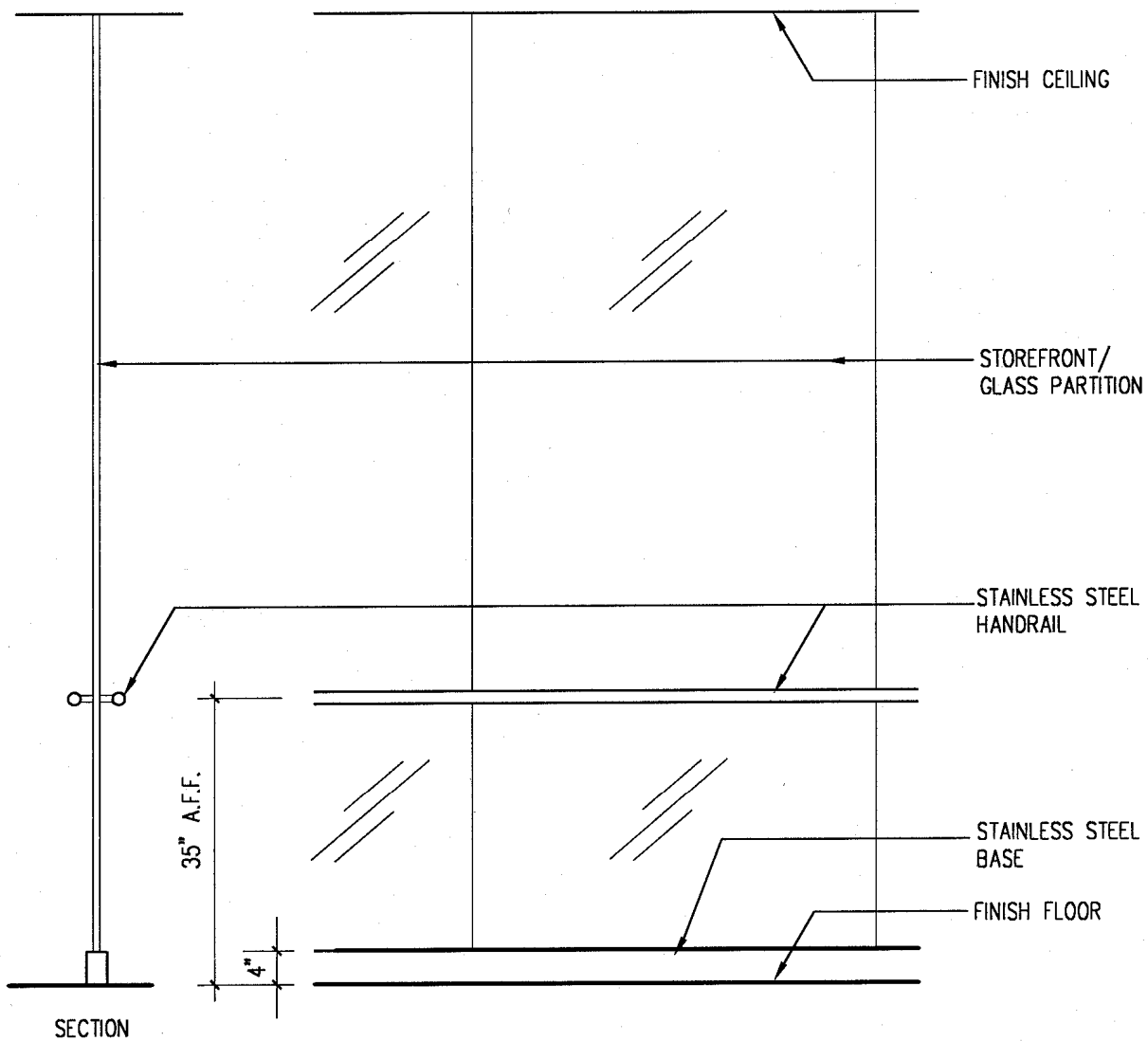
Clear glass  
Translucent laminated glass  
Monolithic float glass  
Sandblasted glass  
Fritted glass

**C. Stainless Steel**

Acceptable finishes:

Sheet material is required to be non-directional, 100 grit  
Formed or cast materials with flat faces are required to  
be non-directional, 100 grit  
Formed or cast materials with curved or shaped surfaces  
are required to be no. 4 brushed  
Bead blast finishes, sealers and coatings are not allowed

CSI Master Specification Division: 08400



## TYPICAL ELEVATION FULL HEIGHT GLASS PARTITION

NTS; For Reference Only



CSI Master Specification Division: 08100

**SUMMARY**

This section covers design requirements, materials and installation of metal interior doors and frames.

Related sections:

C1020.30	Interior Doors - Door Hardware
C1020.40	Interior Doors - Door Accessories
C1020.50	Interior Doors - Glazing

This section includes information on:

- A. Stainless Steel Doors and Frames
- B. Overhead Roll-Up Doors and Grilles
- C. Hollow Metal Doors

**DESIGN REQUIREMENTS**

- All metal door frames to be brushed stainless steel. Painted metal frames are subject to approval by Owner, and shall match the color of surrounding wall finishes. The Port of Seattle prefers unpainted frames to eliminate the cost and effort of repainting them.
- Bead-blasted finish, sealers and coatings are not allowed on any stainless steel finish.
- At all locations where fire-rated door and frame assemblies are required, provide assemblies which comply with the applicable National Fire Protection Association (NFPA) requirements and have been tested and labeled in accordance with ASTM standards by an agency acceptable to governing authorities.
- All doors to meet ADA requirements.
- UL listing as required by code.
- Preference will be given to products with a high percentage of recycled content (45% minimum) and products manufactured and sourced within 500 miles of the Airport.

**MATERIALS/PRODUCTS**

- A. Stainless Steel Doors and Frames
  - Acceptable materials: 16-gauge minimum
  - Acceptable finishes: Sheet material is required to be non-directional, 100 grit  
Formed or cast materials with flat faces are required to be non-directional, 100 grit  
Formed or cast materials with curved or shaped surfaces are required to be no. 4 brushed

Bead blast finishes, sealers and coatings are not allowed.

**Section C10 - Interior Construction**

**C1020.10**

**Interior Doors - Metal Interior Doors & Frames**

2 of 2

CSI Master Specification Division: 08100

**B. Overhead Roll-Up Doors and Grilles**

Acceptable materials:

Unpainted slats; fire protection rating as required

Acceptable finishes:

Anodized aluminum

Natural stainless steel, refer to above notes on stainless steel finishes

**C. Hollow Metal Doors**

Acceptable materials:

16-gauge minimum

**Section C10 - Interior Construction**

**C1020.20**

**Interior Doors - Plastic Interior Doors**

1 of 1

CSI Master Specification Division: 08220

**SUMMARY**

Plastic laminate-faced doors are not to be used in public areas.

## Section C10 - Interior Construction

## C1020.30 Interior Doors - Door Hardware 1 of 1

CSI Master Specification Division: 08710

### SUMMARY

This section covers design requirements, materials and installation of door hardware.

Related sections:

C1020.10	Interior Doors - Metal Interior Doors and Frames
C1020.40	Interior Doors - Door Accessories
C1020.50	Interior Doors - Glazing

### DESIGN REQUIREMENTS

- Coordinate with the Port of Seattle General Foreman, Lock and Key Shop, for detailed hardware information.
- Door pulls to be lever type.

### MATERIALS/PRODUCTS

#### A. Hardware

Acceptable products:

Best Series 35H, Core Housing 7, Lever Style 15, contour/ angle return, Trim Style H, Finish 626; verify with the Port of Seattle General Foreman, Lock and Key Shop

Intellikey

Acceptable finishes:

Standard stainless steel finish: US26D

CSI Master Specification Division: 08710

## **SUMMARY**

This section covers design requirements, materials and installation of interior door accessories.

Related sections:

C1020.10	Interior Doors - Metal Interior Doors and Frames
C1020.30	Interior Doors - Door Hardware
C1020.50	Interior Doors - Glazing

This section includes information on:

- A. Kickplates

## **DESIGN REQUIREMENTS**

- Each public door is required to have a stainless steel kickplate on the push side, standard height is 12".
- If door is located at a stairwell or is subject to high traffic the kickplate height shall be 18", verify with the Port of Seattle Project Manager.

## **MATERIALS/PRODUCTS**

- A. Kickplates

Acceptable products:

8400 Series 12" (or 18" as required) x US26D, Ives  
Or similar.

Preference shall be given to products that contain a high percentage of recycled material (45% minimum).

CSI Master Specification Division: 08800

## **SUMMARY**

This section covers design requirements, materials and installation of interior door glazing.

Related sections:

C1020.10	Interior Doors - Metal Interior Doors and Frames
C1020.30	Interior Doors - Door Hardware
C1020.40	Interior Doors - Door Accessories

This section includes information on:

A. Glazing

## **DESIGN REQUIREMENTS**

- Fire-rated glazing is required for all rated doors.
- Door relites are required to use clear, tempered glazing.
- Frames for glazing shall conform to requirements in Section C1020.10.
- Preference shall be given to products with metal components that contain a high percentage of recycled content (minimum 45%).

## **MATERIALS/PRODUCTS**

A. Glazing

Acceptable materials:

Tempered clear glass  
Translucent laminated glass  
Clear polished wire glass

CSI Master Specification Division: 10200

## **SUMMARY**

This section covers design requirements, materials and installation of interior louvers and vents.

Related sections:

Refer to STIA Mechanical Standards

This section includes information on:

- A. Aluminum
- B. Stainless Steel
- C. Galvanized Steel

## **DESIGN REQUIREMENTS**

- Installation of units shall be visually symmetrical and compatible with architectural requirements, reveals and recesses to fit accordingly.
- Finish to match surrounding wall or ceiling color, unless approved otherwise.
- Fasteners for aluminum members to be aluminum, stainless steel, or galvanized steel. Fasteners for steel or galvanized steel members to be stainless steel or galvanized steel. Fasteners for stainless steel members to be stainless steel.
- Finish exposed to view fastener heads to match adjacent surface.
- Louvers shall have stationary 45-degree blades.
- Preference will be given to products made with a high percentage of recycled content (45% minimum) and/or manufactured and sourced from within 500 miles of the Airport.

## **MATERIALS/PRODUCTS**

- |   |   |
|---|---|
| <p>A. Aluminum</p> <p>Acceptable finishes:</p>        | <p>Fabricate all blades and frames from extruded aluminum</p> <p>Anodized, clear or colored, powder coated, primed and painted, enamel</p>  |
| <p>B. Stainless Steel</p> <p>Acceptable finishes:</p> | <p>Sheet material is required to be non-directional, 100 grit</p> <p>Formed or cast materials with flat faces are required to be non-directional, 100 grit</p> <p>Formed or cast materials with curved or shaped surfaces are required to be no. 4 brushed</p> <p>Bead blast finishes, sealers and coatings are not allowed</p> |



**Section C10 - Interior Construction**

**C1030.10**

**Interior Specialties - Louvers and Vents**

2 of 2

CSI Master Specification Division: 10200

C. Galvanized Steel

Acceptable finishes:

Brushed

Powder coated

Primed and painted

Enamel

D. Paint Finishes

Refer to Section VI, Technical Appendix, G, *Environmental Criteria and Guidelines*, for acceptable paint procedures and products.

**Section C10 - Interior Construction**

**C1030.20**  
**Interior Specialties - Signs**  
1 of 1

CSI Master Specification Division: 10400

**SUMMARY**

This information is covered in the STIA Signing and Graphics Guidelines.

CSI Master Specification Division: 10260

## **SUMMARY**

This section covers design requirements, materials and installation of wall and corner guards.

Related sections:

C3010.90 Interior Wall Finishes - Column Covers

This section includes information on:

- A. Stainless Steel Corner Guards
- B. Vinyl Corner Guards

## **DESIGN REQUIREMENTS**

- Wall and corner guards to be stainless steel, fastened mechanically and with adhesive.
- Vinyl corner guards are allowed for use on granite column covers.
- Aluminum corner guards are not allowed.
- Color and finish to match wall surfaces and finishes, or match column finishes, whichever is deemed more visually compatible.
- Black stone-faced columns in terminal, where susceptible to damage, use black vinyl corner guards.
- Minimum height above finish floor to be 35".
- Preference is given to products with a high percentage of recycled content and manufactured and/or sourced from within 500 miles of the Airport.

## **MATERIALS/PRODUCTS**

- A. Stainless Steel Corner Guards
  - Acceptable finishes:
    - Sheet material is required to be non-directional, 100 grit
    - Formed or cast materials with flat faces are required to be non-directional, 100 grit
    - Formed or cast materials with curved or shaped surfaces are required to be no. 4 brushed
    - Bead blast finishes, sealers and coatings are not allowed
- B. Vinyl Corner Guards
  - Acceptable finishes:
    - To match black stone column facing

CSI Master Specification Division: 05810

**SUMMARY**

This section covers design requirements, materials and installation of architectural expansion joint covers used to conceal exposed joints at interior and exterior finishes.

This section includes information on:

- A. Metal Floor Cover Plates
- B. Metal Wall Cover Plates

**DESIGN REQUIREMENTS**

- All expansion joints at interior and exterior finishes shall be covered with the appropriate expansion joint covers.
- Ensure a smooth transition at interface of joint cover and adjacent floor finish.
- All floor expansion joints shall comply with ADA and applicable codes.

**MATERIALS/PRODUCTS**

- A. Metal Floor Cover Plates
  - Acceptable materials: Stainless steel satin finish  
Pre-finished aluminum
  - Acceptable products: MM Systems Series HDT 2-1 extra heavy duty
- B. Metal Wall Cover Plates
  - Acceptable materials: Stainless steel satin finish  
Pre-finished aluminum

**Section C10 - Interior Construction**

**C1030.40**  
**Expansion Control**  
2 of 2

CSI Master Specification Division: 05810



Typical Floor Expansion Joint

CSI Master Specification Division: 09400

## **SUMMARY**

This section covers design requirements, materials and installation of pre-cast terrazzo for interior stairs finishes.

Related sections:

C3020.20	Interior Floor Finishes - Terrazzo
C3020.60	Slip Resistant Finishes

This section includes information on:

- A. Pre-Cast Terrazzo
- B. Carborundum Nosing

## **DESIGN REQUIREMENTS**

- Terrazzo finish is to be used in all stairs in public circulation areas.
- Terrazzo colors and finishes on stairs must match or be compatible with the adjacent terrazzo floor finishes and other adjacent floor treatments.
- Use pre-cast terrazzo stair treads and risers, terrazzo base, and non-skid nosing inserts.
- To the maximum extent possible, use recycled glass and/or other recycled material as part of the aggregate mix (minimum 20%).

## **MATERIALS/PRODUCTS**

- A. Pre-Cast Terrazzo
- B. Carborundum Nosing                      Refer to Section C3020.60

**Section C20 - Stairways**

**C2020.20**

**Interior Stair Finishes - Resilient Stair Finishes**

1 of 1

CSI Master Specification Division: 09650

**SUMMARY**

Resilient floor finishes will not be used as a material for interior public area stairs.

CSI Master Specification Division: 05520

## **SUMMARY**

This section covers design requirements, materials and installation of interior stair railings for stairs in interior public areas.

Related sections:

C1010.20      Interior Construction - Railings

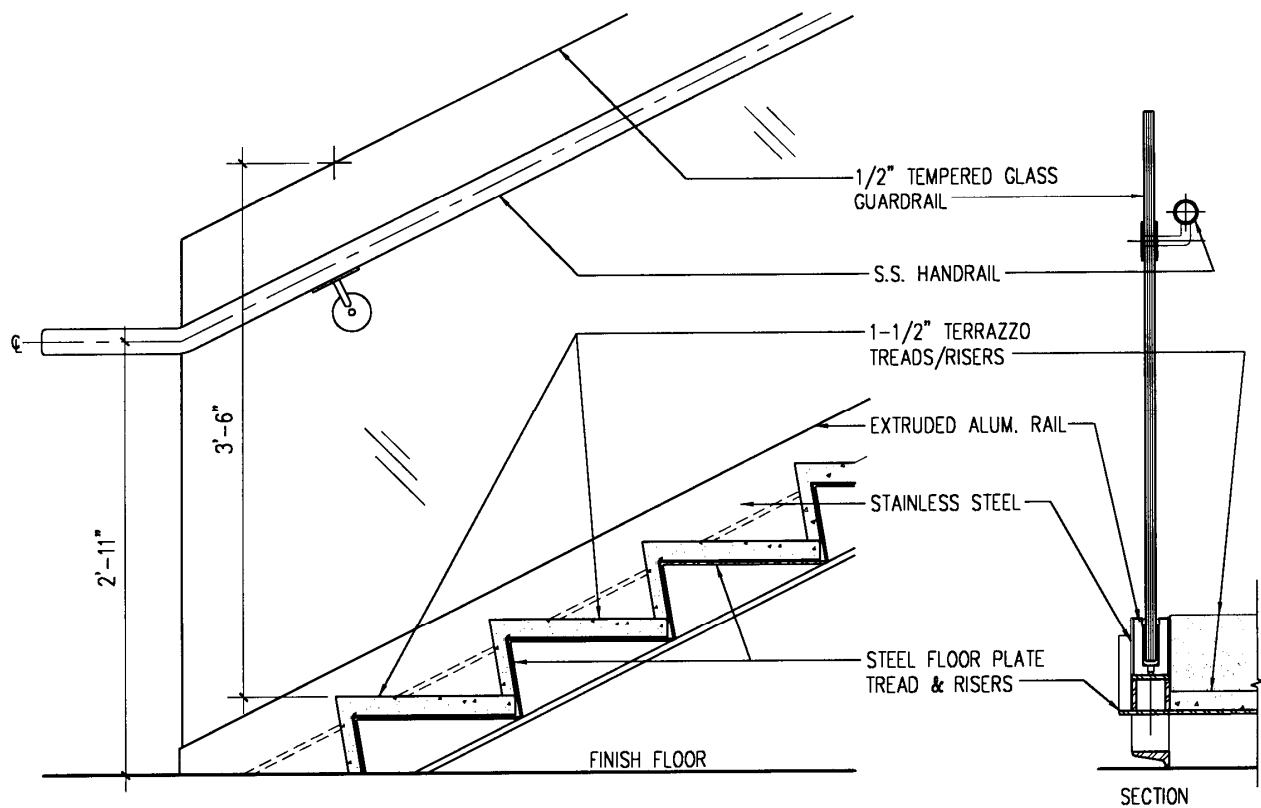
## **DESIGN REQUIREMENTS**

- Stair railings shall match the standard stainless steel and glass guardrail system for interior railings.
- Wall mounted railings shall use stainless steel round sections; profiled to match standard handrails. Coordinate with Section C1010.20 for details.
- Use concealed fasteners.
- Refer to typical stair railing detail on following page.
- Give preference to products with a high percentage of recycled content (minimum 45%).

## **MATERIALS/PRODUCTS**

Refer to Section C1010.20.





## TYPICAL STAIR RAILING

NTS; For Reference Only

CSI Master Specification Division: 09910

## **SUMMARY**

Paint finish will not be used on any stair surface in public areas, other than exposed to view steel stair structural supports and framing members.

Related sections:

B1010.20      Structural Steel Columns and Bracings

## **DESIGN REQUIREMENTS**

- Uniform finish color to be used in all exposed portions.
- Paint finish shall be cleanable.
- Painted GWB standard color is Sherwin Williams "Port Brew Super White".
- A 5'-0" high wainscot shall be painted in all stairwells using a paint which is three to four tint shades darker than the standard white.
- Walls shall be painted with the following mix: 3 parts satin and 2 parts eggshell.
- Ceilings shall be painted with a flat paint.

## **MATERIALS/PRODUCTS**

Refer to Section B1010.20 for acceptable finishes of steel members which are exposed to view.

Refer to Section VI Technical Appendix, G, *Environmental Criteria and Guidelines* for acceptable paint application procedures and products to be used within the interior of the Airport.

CSI Master Specifications Division: 06420

**SUMMARY**

This section covers design requirements, materials, fabrication and installation of pre-manufactured plastic laminate faced panels for interior wall finish systems.

Related sections:

C3010.120	Miscellaneous Metal Trim
C3010.130	Wall Bases

This section includes information on:

- A. Plastic Laminate
- B. Panel Trim

**DESIGN REQUIREMENTS**

- Use finishes and colors which give the overall wall surface a tidy and coordinated look, maintaining a matte, non-reflective, and non-shiny finish all throughout. Generally, light to medium neutral colors and a subtle pattern are preferred.
- Custom colors and textured plastic laminate finishes are not allowed.
- Plastic laminate panel walls must be provided with a separate wainscot panel of a relatively heavy-duty material such as stainless steel laminate or other acceptable metal laminate finishes. Although of different materials, wainscot finish and plastic laminate must be visually compatible. Standard wainscot height is 35" from finish floor. Refer to typical wall details.
- The use of concealed metal cleats for panel attachment, as well as the use of manageable panel sizes, will allow easy removal and replacement of individual panels for repairs and cleaning purposes.
- Details which allow removal and replacement of panels should not sacrifice the finished walls overall tidy and uncluttered appearance; do not use exposed fasteners.
- Maximum reveal widths between panels to be 1/4". Masonite spacers, black or dark painted, must be provided at reveal locations. Edges at reveals shall be stainless steel or aluminum trim. See typical wall details.
- Provide durable protection for all panel edges exposed to potential damage. Plastic laminate panels to be trimmed with either stainless steel flat bar, stainless steel half round panel trim, vinyl (PVC) panel trim, or aluminum trim. Stainless steel and other metal laminate wainscot panels to be trimmed with stainless steel flat bar.
- Preference is given to products that contain a high percentage of recycled content and that are manufactured and/or sourced from within 500 miles of the Airport.

CSI Master Specifications Division: 06420

- Metal edges shall be chamfered or rounded.
- Formed edges and joints in the plastic laminate panel face are not allowed.
- Plastic laminate that is produced to resemble wood is not to be used.
- Sealant at floor junctions shall be dark colored and detailed so as not to form a deep pocket that may collect dust and dirt.

**MATERIALS/PRODUCTS**

**A. Plastic Laminate**

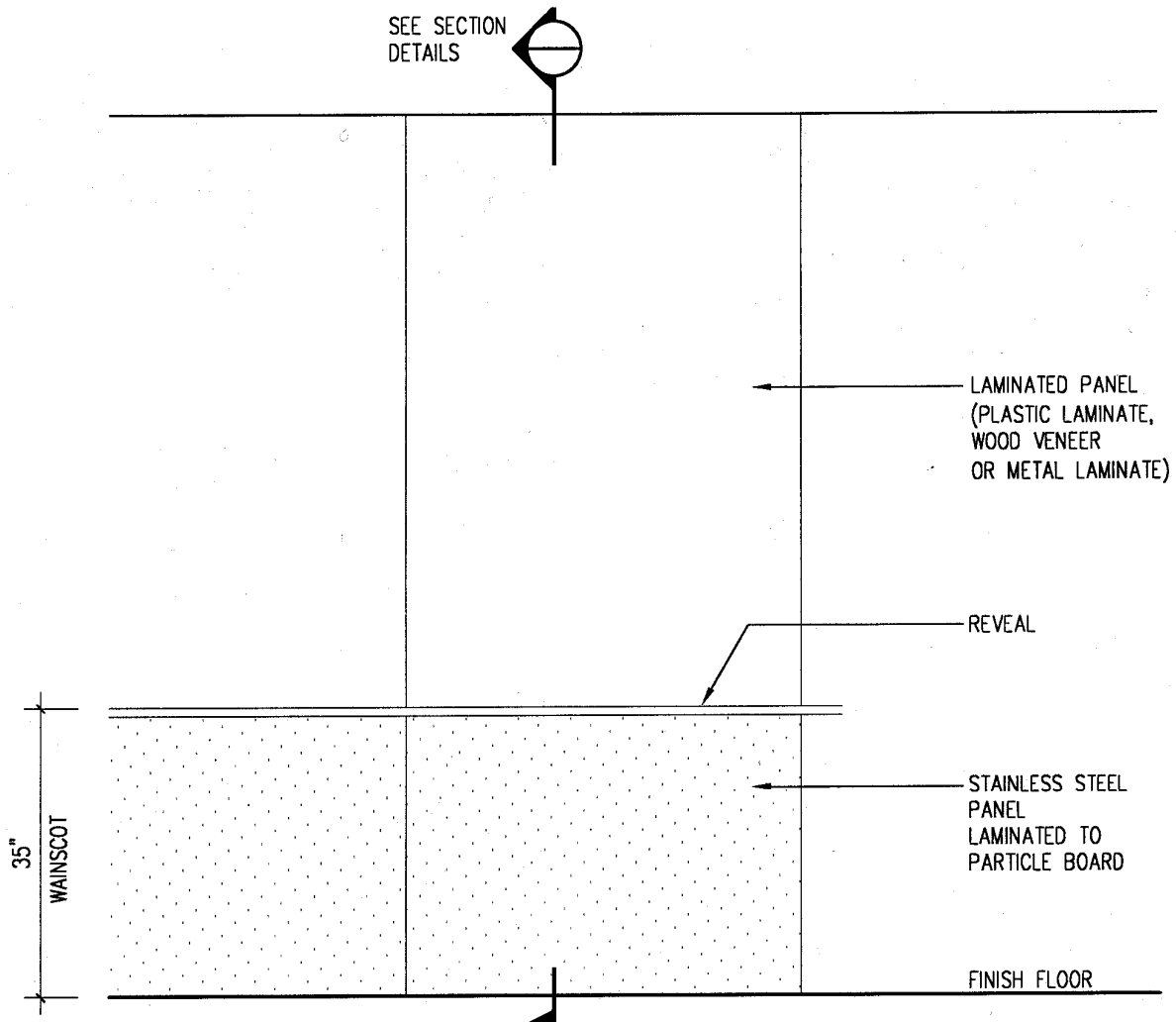
Acceptable finishes:	Colored high-pressure decorative laminate with solid color core, matte finish, neutral colors
Acceptable manufacturers:	Formica Nevamar Wilson Art InPro Sanparrel

**B. Panel Trim**

Acceptable materials:	Stainless steel flat bar or half round trim Aluminum trim PVC Edging to be 2 mm or 3 mm thick flat strip
Acceptable manufacturers:	Woodtape PVC Edging

Refer to Section VI Technical Appendix G, *Environmental Criteria and Guidelines*, for information about acceptable substrates and adhesives to use within the Airport interior.

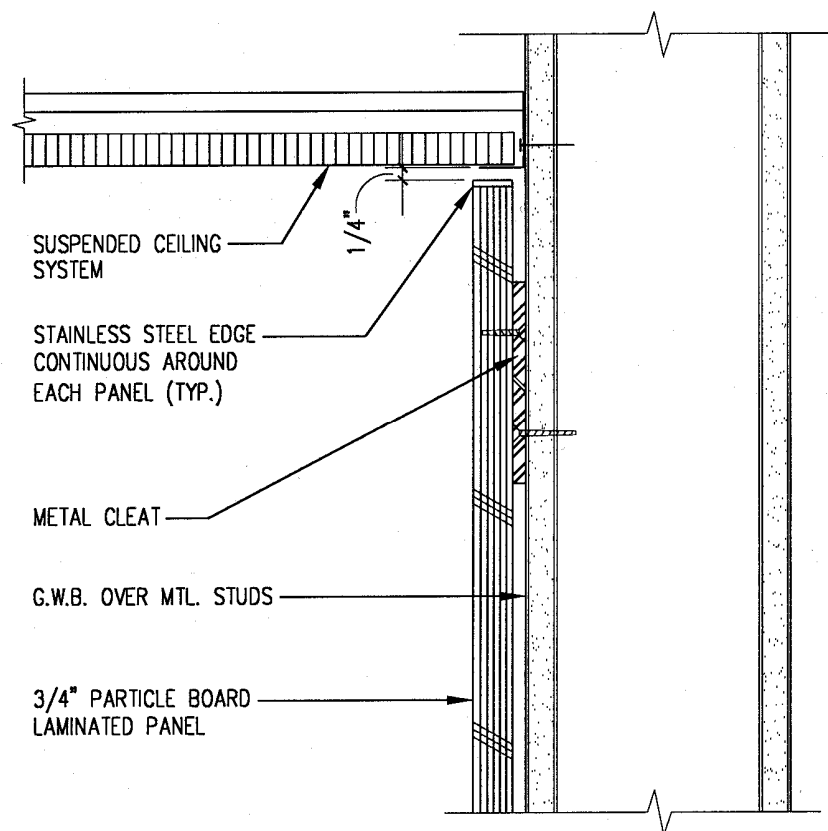
CSI Master Specifications Division: 06420



## TYPICAL WALL ELEVATION

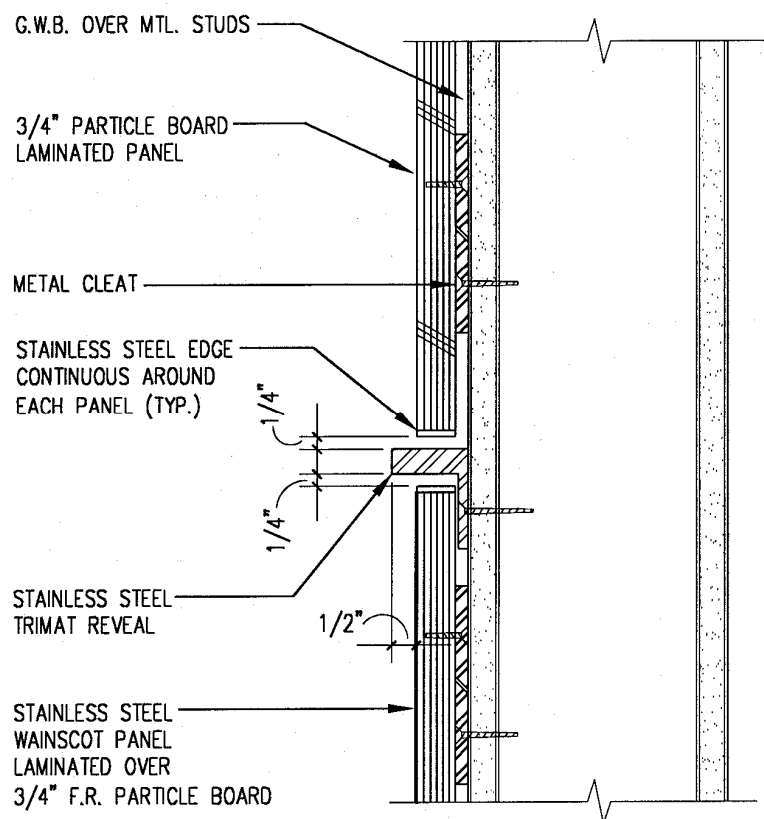
NTS; For Reference Only

CSI Master Specifications Division: 06420



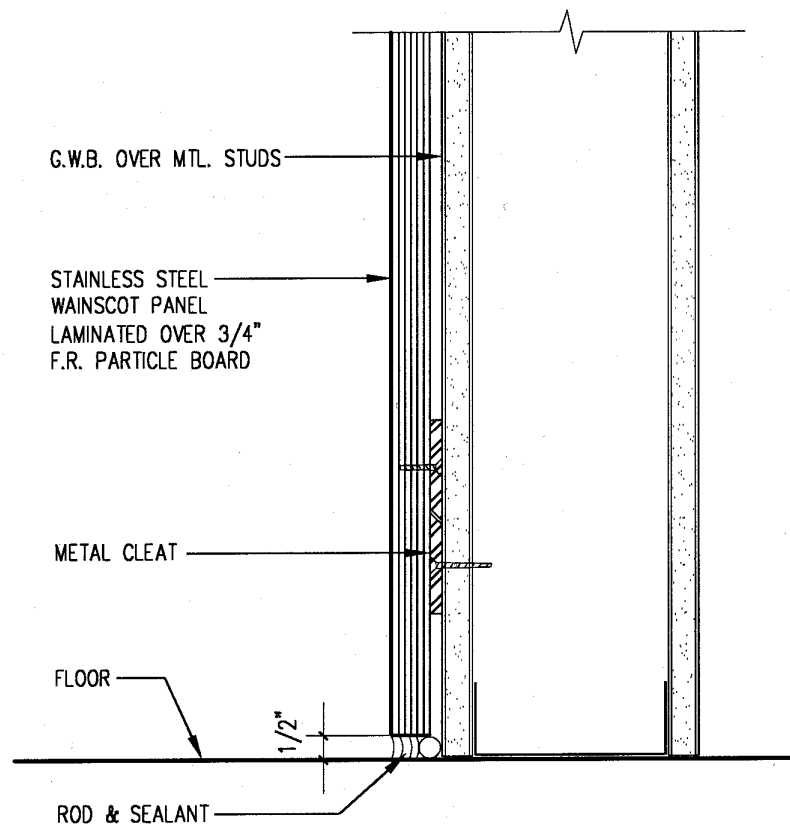
## WALL DETAIL @ CEILING

NTS; For Reference Only



## WALL DETAIL @ WAINSCOT TRANSITION

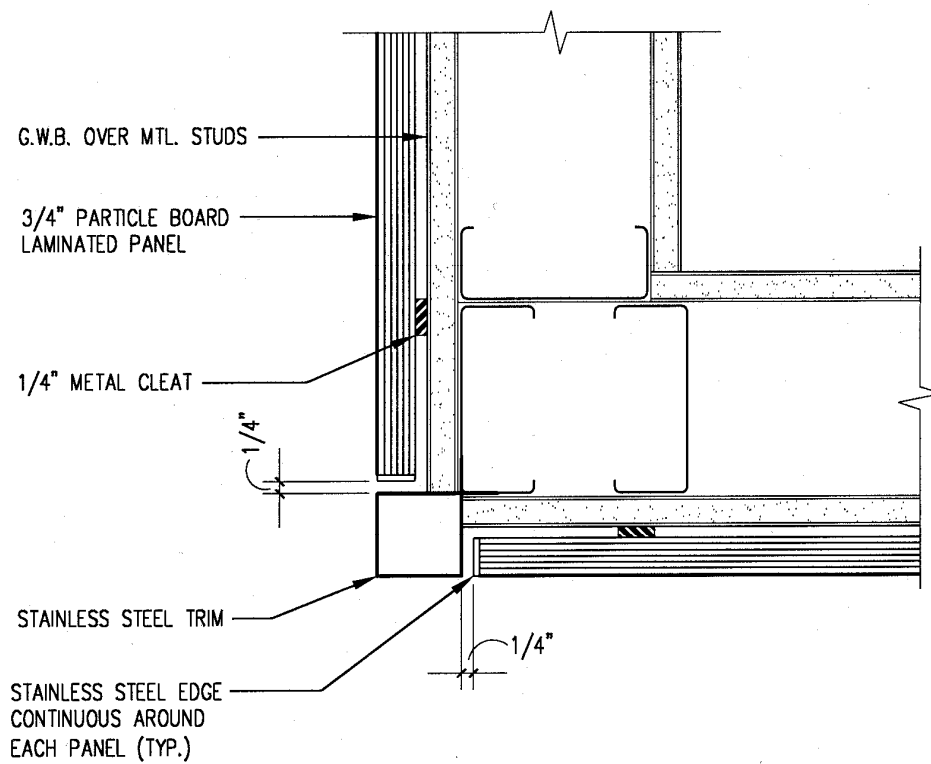
NTS; For Reference Only



## WAINSCOT DETAIL @ BASE

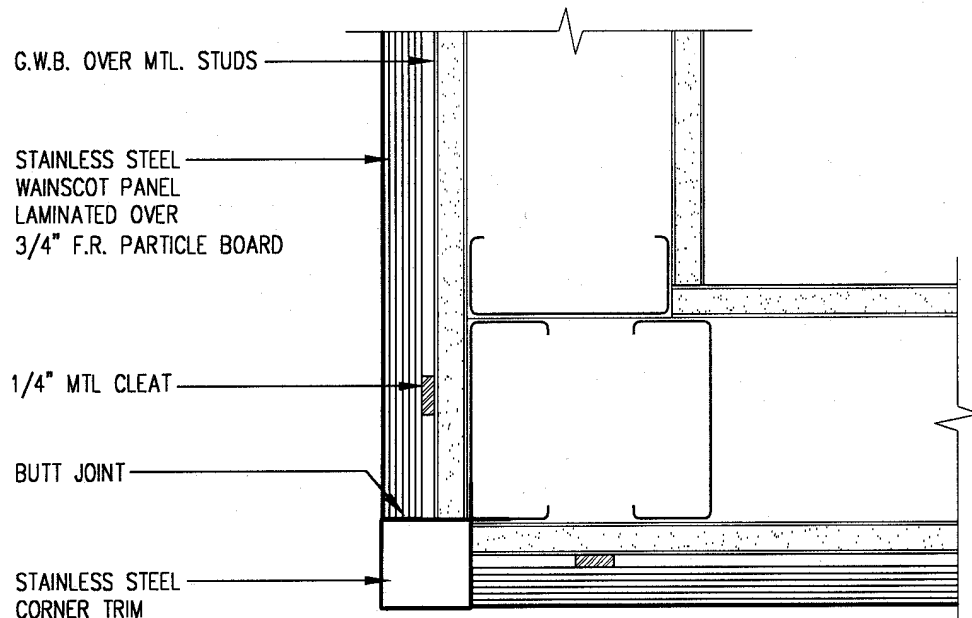
NTS; For Reference Only





## WALL DETAIL @ CORNER

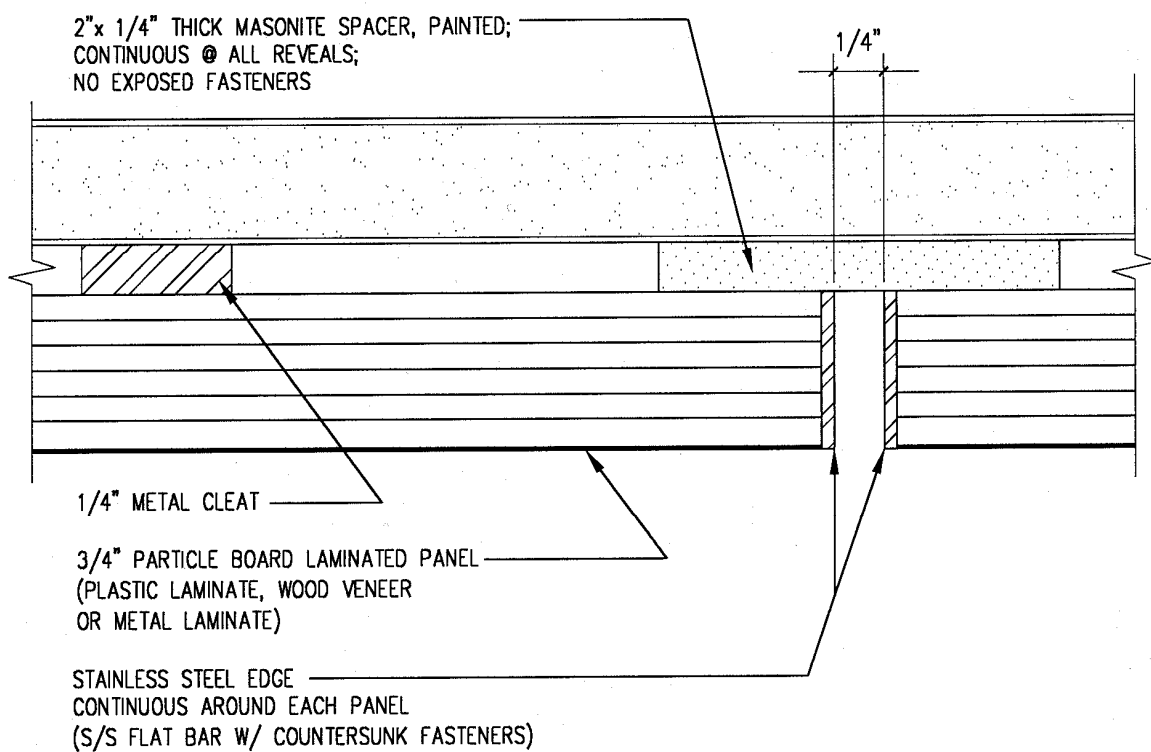
NTS; For Reference Only



## WAINSCOT DETAIL @ CORNER

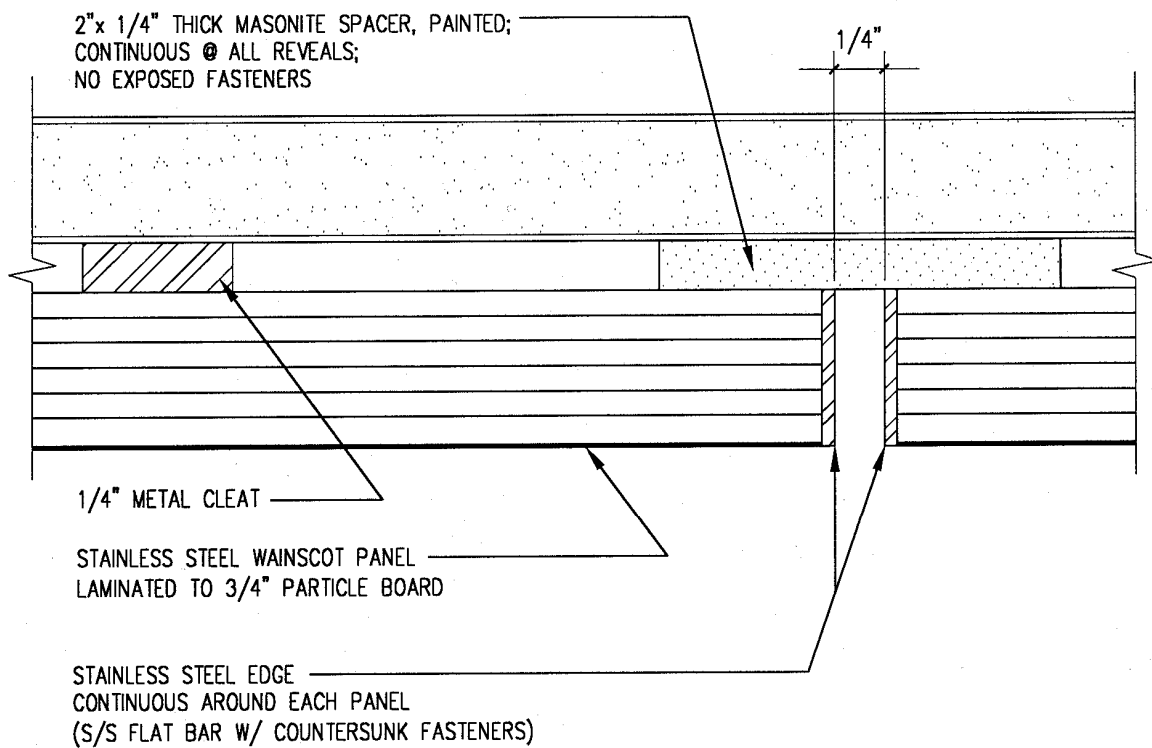
NTS; For Reference Only

CSI Master Specifications Division: 06420



## VERTICAL REVEAL BETWEEN PANELS

NTS; For Reference Only



## VERTICAL REVEAL BETWEEN WAINSCOT PANELS

NTS; For Reference Only

CSI Master Specifications Division: 06420

**SUMMARY**

This section covers design requirements, materials, fabrication and installation of pre-manufactured wood paneling for interior wall finish systems.

Related sections:

C3010.120	Miscellaneous Metal Trim
C3010.130	Wall Bases

This section includes information on:

- A. Architectural Wood Panel Work

**DESIGN REQUIREMENTS**

- Use uniform grained and light colored wood finishes to maintain an open and bright interior space quality, refer to following photographs.
- Wood finishes shall use only natural wood products. Any other material, such as plastic laminate, metal, synthetic wood, or any other finish material made to appear like wood will not be allowed.
- Wood panels to be used only in protected areas and in areas out of public reach.
- Wood panel walls shall be provided with a separate wainscot panel of a relatively heavy-duty material such as stainless steel laminate or other acceptable metal laminate finishes. Although of different materials, wainscot finish and wood finish must be visually compatible. Standard wainscot height is 35" from finish floor. Refer to typical wall details in Section C3010.10.
- The use of concealed metal cleats for panel attachment, as well as the use of manageable panel sizes, will allow easy removal and replacement of individual panels for repairs and cleaning purposes.
- Details which allow removal and replacement of panels should not sacrifice the finished walls overall tidy and uncluttered appearance, do not use exposed fasteners.
- Maximum reveal widths between panels to be 1/4". Masonite spacers, black or dark painted, must be provided at reveal locations. Panel edges at reveals to have stainless steel or aluminum trim. Refer to the typical wall details in Section C3010.10.
- Provide durable protection for all panel edges exposed to potential damage with stainless steel or aluminum flat bar.
- Sealant at floor junctions shall be dark colored and detailed so as not to form a deep pocket that may collect dust and dirt.

CSI Master Specifications Division: 06420

**MATERIALS/PRODUCTS**

**A. Architectural Wood Panel Work**

Acceptable products:

3/4" thick minimum all face solid veneer plywood panels with fire retardant finish; veneer thickness to comply with industry standards. Composite wood and adhesives used on any fabrications built for the interior of the Airport will contain no added urea-formaldehyde.

Acceptable species:

Preference will be given to regional and domestic wood species such as maple, oak, ash, madrone, cedar, fir, etc.

Anigre is no longer an acceptable species.

Acceptable finishes:

Transparent clear sealer

Transparent stain

Refer to the Section VI Technical Appendix G, *Environmental Guidelines and Criteria*, regarding sealers used within the interior of the Airport.

**Section C30 - Interior Finishes**

**C3010.20**  
**Interior Wall Finishes - Wood Panels**  
3 of 4

CSI Master Specification Division: 06420



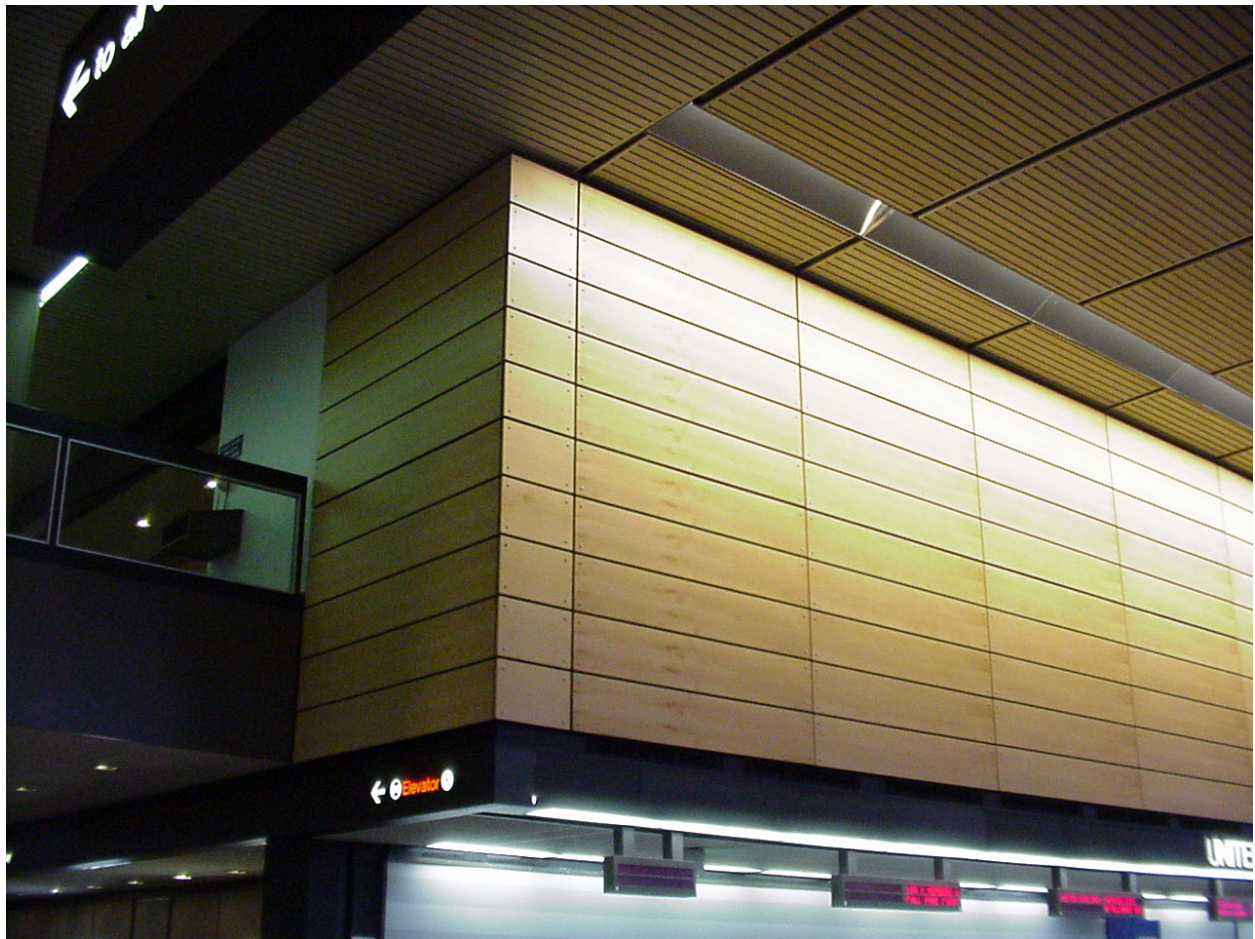
Wood Panels  
Ticket Lobby



**Section C30 - Interior Finishes**

**C3010.20**  
**Interior Wall Finishes - Wood Panels**  
4 of 4

CSI Master Specification Division: 06420



Wood Panels  
Ticket Lobby



CSI Master Specifications Division: 06420, 05050

**SUMMARY**

This section covers design requirements, materials, fabrication and installation of pre-manufactured sheet metal faced panels for interior wall finish systems.

Related sections:

C3010.120	Miscellaneous Metal Trim
C3010.130	Wall Bases

This section includes information on:

A. Sheet Metal

**DESIGN REQUIREMENTS**

- Use finishes which give the overall wall surface a matte, non-reflective look, and an even color tone throughout. Some variation in patina is acceptable.
- Finishes shall not exhibit visual changes when subjected to fingerprints and scratches.
- Metal wall panels shall be provided with a separate wainscot panel of the same metal material or another acceptable metal laminate finish. If of different materials, wainscot finish and metal panel finish shall be visually compatible. Standard wainscot height is 35" from finish floor. Refer to typical wall details in Section C3010.10.
- The use of concealed metal cleats for panel attachment, as well as the use of manageable panel sizes, will allow easy removal and replacement of individual panels for repairs and cleaning purposes.
- Details which allow removal and replacement of panels should not sacrifice the finished walls overall tidy and uncluttered appearance.
- Maximum reveal widths between panels to be 1/4". Masonite spacers, black or dark painted, shall be provided at reveal locations. Refer to the typical wall details in Section C3010.10.
- Provide durable protection for all panel edges exposed to potential damage with stainless steel flat bar or aluminum trim. Stainless steel or aluminum trim finish shall match or blend well with the metal panel finish and color.
- Exposed fasteners shall not be used.
- Sealant at floor junctions shall be dark colored and detailed so as not to form a deep pocket that may collect dust and dirt.
- Sandblasted finish, sealers and coatings are not allowed in any stainless steel finish.
- Preference will be given to products that contain a high percentage of recycled material, and products manufactured and sourced from within 500 miles of the Airport.

CSI Master Specifications Division: 06420, 05050

**MATERIALS/PRODUCTS**

A. Sheet Metal

Acceptable materials:

Stainless steel

Brass

Acceptable finishes:

Sheet material is required to be non-directional, 100 grit  
Formed or cast materials with flat faces are required to  
be non-directional, 100 grit

Formed or cast materials with curved or shaped surfaces  
are required to be No. 4 brushed

Bead blast finishes, sealers and coatings are not allowed

CSI Master Specifications Division: 09250, 09910

## **SUMMARY**

This section covers design requirements, materials and installation of metal joints, accessories, and gypsum panels for gypsum board interior wall finishes, column covers, ceilings and soffits.

Related sections:

C3010.90	Interior Wall Painting
C3010.110	Column Cladding
C3030.10	Gypsum Board Ceiling Finishes

This section includes information on:

- A. Gypsum Wallboard System

## **DESIGN REQUIREMENTS**

- All gypsum board surfaces shall be painted white, using the airport's standard color Sherwin Williams "Port Brew Super White".
- Walls shall be painted with the following mix: 3 parts satin and 2 parts eggshell.
- Tapered edges, with a three-coat finish system for all exposed work, flat wall finish, no textured treatments.
- Gypsum board finishes shall only be used in areas and at wall or column heights that are not susceptible to damage and not accessible to the public, such as upper walls and soffits. The exception shall be for use on temporary walls and columns as approved by the Port of Seattle Project Manager.
- Use corrosion resistant coated steel trims, control joints and accessories.
- Preference will be given to gypsum board with a high percentage of recycled content and manufactured within 500 miles of the Airport.

## **MATERIALS/PRODUCTS**

- A. Gypsum Board Wall System
  - Acceptable products: 5/8" thick type X fire-rated GWB

CSI Master Specifications Division: 09300

## **SUMMARY**

This section covers design requirements, materials, and installation of tiles for interior wall finishes.

## **DESIGN REQUIREMENTS**

- Tile will not be used as a wall finish material in any interior public area.
- Wall tiles may be allowed in Tenant provided finishes for retail spaces that are exposed to public view. Design requirements for these Tenant provided finishes will be addressed by the airport on a case-to-case basis, and must comply with the STIA Retail Concession Tenant Design Guidelines.
- Refer to the STIA Restroom Standards for wall tile finishes in restrooms.

## **MATERIALS/PRODUCTS**

N/A

CSI Master Specifications Division: 09750

**SUMMARY**

This section covers design requirements, materials, and installation of stone facing for interior wall finishes.

**DESIGN REQUIREMENTS**

- Stone facing shall not be used as a wall finish material in any interior public area other than in special areas such as the Central Terminal (future) and South Hall (future).
- The Port of Seattle approval is required for any intended use of stone wall facing in specially designated areas.
- Refer to the STIA Retail Concession Tenant Design Guidelines.

**MATERIALS/PRODUCTS**

N/A

CSI Master Specifications Division: 09840

## **SUMMARY**

This section covers design requirements, materials and installation of acoustic wall panels that provide acoustical treatment for interior walls.

Related sections:

C3010.100      Fabric Wall Coverings

This section includes information on:

- A. Acoustic Panel Core
- B. Fabric

## **DESIGN REQUIREMENTS**

- Acoustic wall panels shall be fabric covered as specified in Section C3010.100.
- The use of concealed metal cleats for panel attachment, as well as the use of manageable panel sizes, shall be used to allow easy removal and replacement of individual panels for repairs and cleaning purposes.
- Details which allow removal and replacement of panels should not sacrifice the finished walls overall tidy and uncluttered appearance. Exposed fasteners will not be allowed.
- Use square edge acoustic panels, provided with appropriate edge protection where edges are susceptible to damage.
- Use panels rated for "high impact" in areas accessible by the public.

## **MATERIALS/PRODUCTS**

- A. Acoustic Panel Core  
Acceptable materials:                      Acoustically absorbent semi-rigid fiberglass
- B. Fabric    Refer to Section C3010.100

CSI Master Specifications Division: 06600

**SUMMARY**

This section covers pre-manufactured fiber reinforced plastic covered panels for interior wall finish systems.

**DESIGN REQUIREMENTS**

- Fiber reinforced plastic will not be used as a wall finish material in any interior public area.

**MATERIALS/PRODUCTS**

N/A

CSI Master Specifications Division: 09910

**SUMMARY**

This section covers design requirements, products and application of paint finishes on interiors, and interior walls, ceilings, soffits and column covers. This includes opaque, transparent, and translucent coating systems that are either liquid or powder applied.

Related sections:

C3010.20	Wood Panels Wall Finishes
C3010.30	Metal Wall Panels
C3010.40	Gypsum Board Wall Finishes
C3010.110	Column Cladding
C3030.10	Gypsum Board Ceiling Finishes

This section includes information on:

- A. Opaque Paint System
- B. Translucent Paint System
- C. Transparent Paint System
- D. Liquid Applied System
- E. Powder Applied System

**DESIGN REQUIREMENTS**

- All GWB wall surfaces to be painted.
- Use the airport's standard white Sherwin Williams "Port Brew Super White", on all gypsum board surfaces of interior walls, ceilings, soffits and column covers in public areas.
- A 5'-0" high wainscot shall be painted in all public stairwells using a paint which is three to four tint shades darker than the standard white.
- Walls shall be painted with the following mix: 3 parts satin and 2 parts eggshell.
- Ceilings shall be painted with a flat paint.
- All liquid applied paint products shall be water based.
- Paint finishes shall be durable and allow ease of cleaning and maintenance.

**MATERIALS/PRODUCTS**

- A. Opaque Paint System

Acceptable materials:

Water based system compatible with substrate and appropriate to conditions of exposure

Acceptable finishes:

Walls shall be painted with a three-coat finish Sherwin Williams "Port Brew Super White"



CSI Master Specifications Division: 09910

- |  |  |
|--|--|
| B. Translucent Paint System<br>Acceptable materials: | Water based system compatible with substrate and appropriate to conditions of exposure                           |
| C. Transparent Paint System<br>Acceptable materials: | Water based system compatible with substrate and appropriate to conditions of exposure                           |
| D. Liquid Applied System<br>Acceptable materials:    | Appropriate for all paint finish scheduled substrate material  |
| E. Powder Applied System<br>Acceptable materials:    | Opaque, translucent or transparent system appropriate for metal paint finish scheduled tubing and sheet material |

Refer to Section VI Technical Appendix G, *Environmental Guidelines and Criteria*.

**Paints**

- The Port of Seattle prefers that paint be applied and cured offsite, within a controlled paint shop whenever possible.
- When paint must be applied on site, within the Airport interior, the paint used must not exceed the maximum level of VOC's (volatile organic compounds) stipulated in the current guidelines of the South Coast Air Quality Management District (SCAQMD) Rule #1113.

CSI Master Specification Division: 09720

## **SUMMARY**

This section covers design requirements, products and installation of metal trims, accessories, vinyl coated fabric and fabric wall covering for interior wall finishes.

Related sections:

C3010.70      Acoustical Wall Treatment

This section includes information on:

A. Fabric Wall Coverings

## **DESIGN REQUIREMENTS**

- Fabric material, colors and finishes shall be durable and able to maintain and sustain appearances. To ensure a neat appearance, use only non-staining, non-pigmented adhesives, and concealed cleats. If required, use stainless steel or aluminum trims and metal accessories.
- Use only woven fabrics and synthetic fabrics.
- Fabric wall coverings to be used only in low traffic passive areas; the fabric finish itself shall be above wainscot level. Avoid using in areas exposed to damage and abuse. Panel system should allow easy removal and replacement of individual panels without damage to adjacent panels; fabric to be directly glued down to core panel.
- Fabric wrapped panels shall be butt-jointed or use reveals between fabric panels. In cases where a reveal is necessary between a fabric panel and a panel of a different finish material, provide masonite spacers, painted to match or be compatible with the panel finishes. Maximum reveal width is 1/4".
- End walls exposed to traffic shall be appropriately protected to prevent damage to the fabric material.
- Preference will be given to materials with a high percentage of recycled content and/or made from rapidly renewable fibers.

## **MATERIALS/PRODUCTS**

A. Fabric Wall Coverings

Acceptable materials:

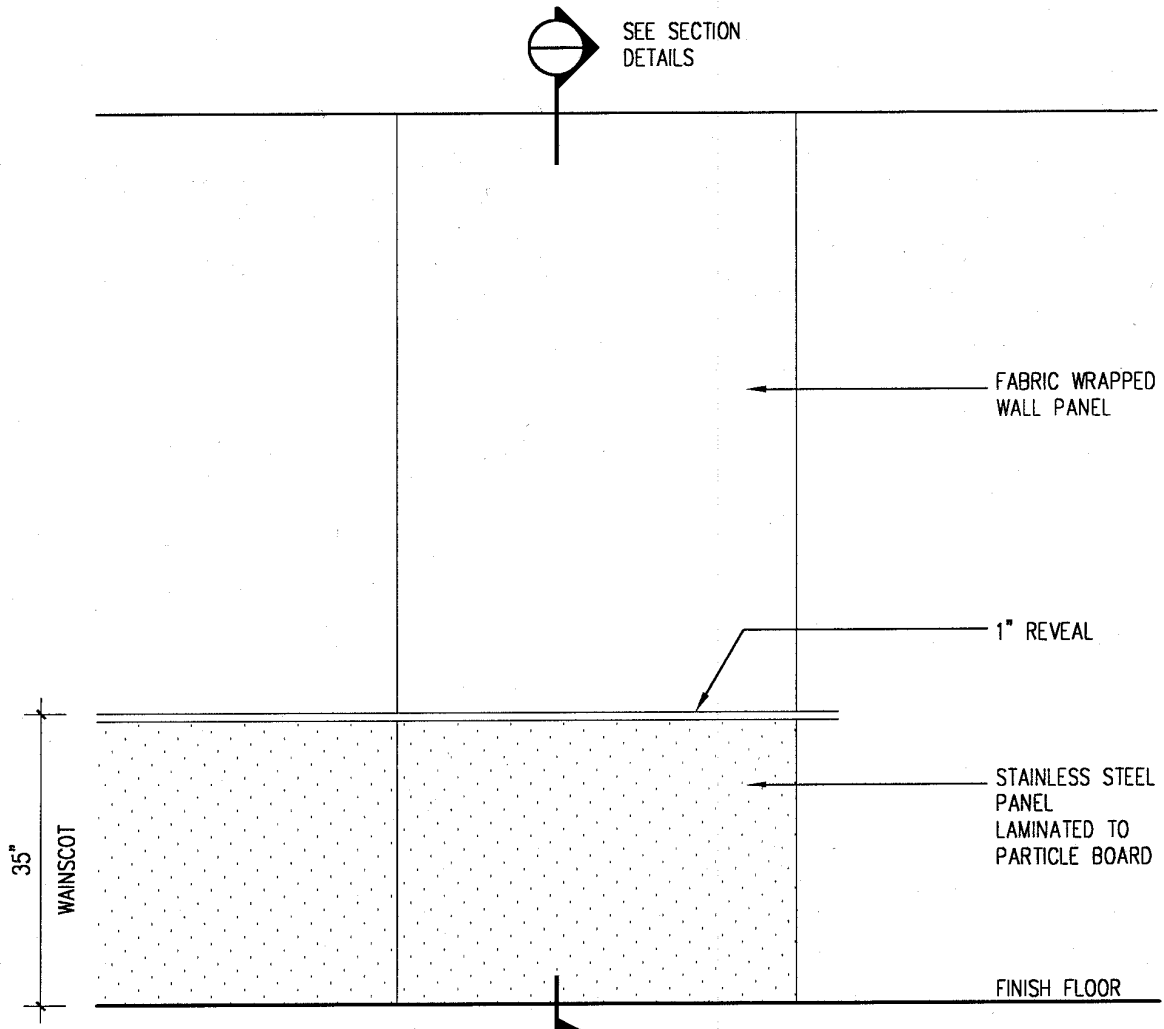
Vinyl Coated Fabrics

Wall Fabrics

Acceptable manufacturers:

Carnegie - Xorel

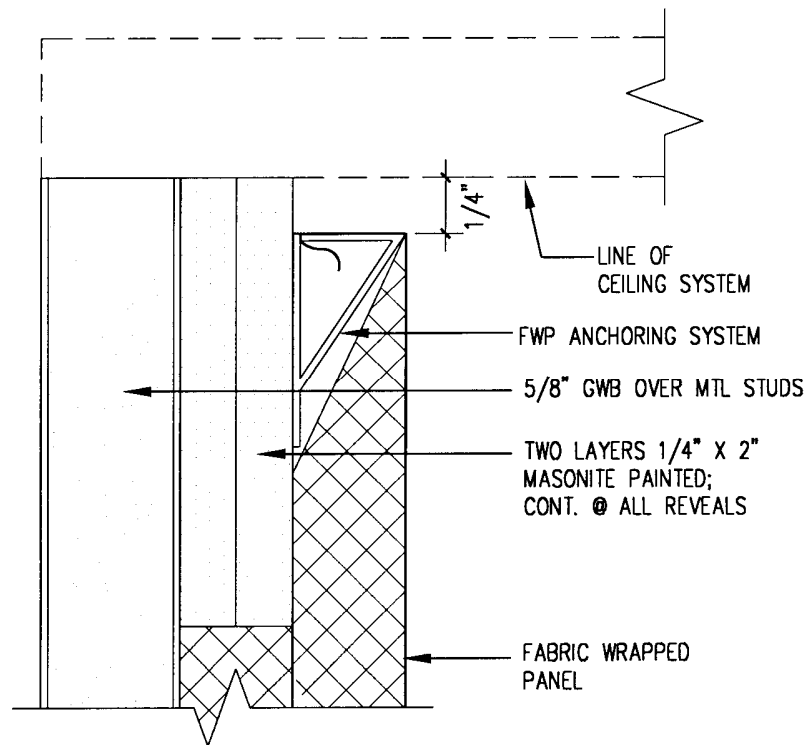
CSI Master Specification Division: 09720



## TYPICAL WALL ELEVATION

NTS; For Reference Only

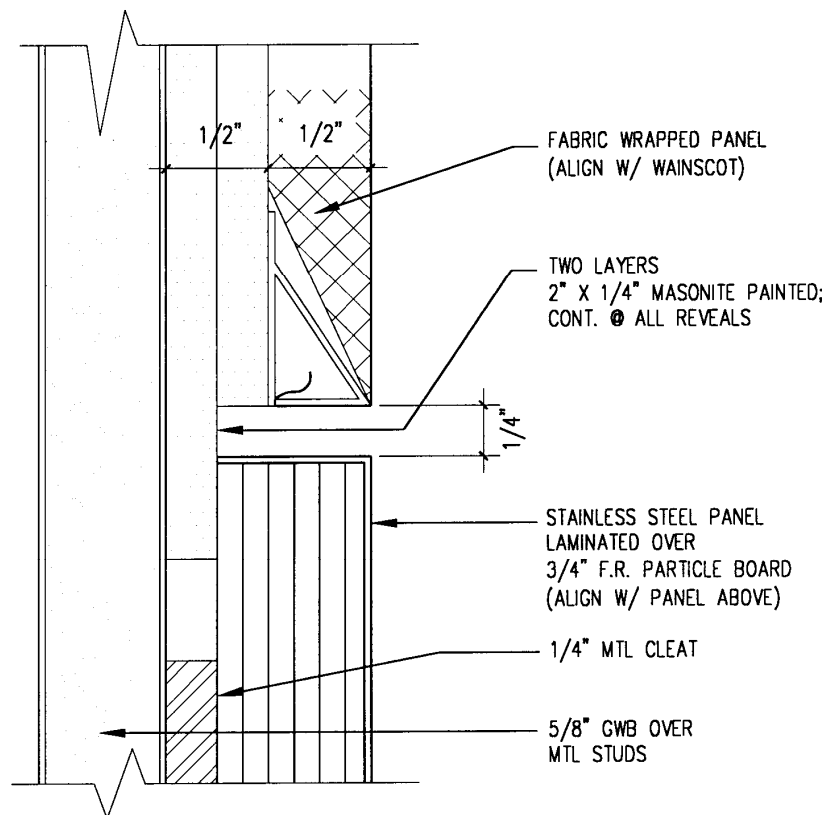
CSI Master Specification Division: 09720



## WALL DETAIL @ CEILING

NTS; For Reference Only

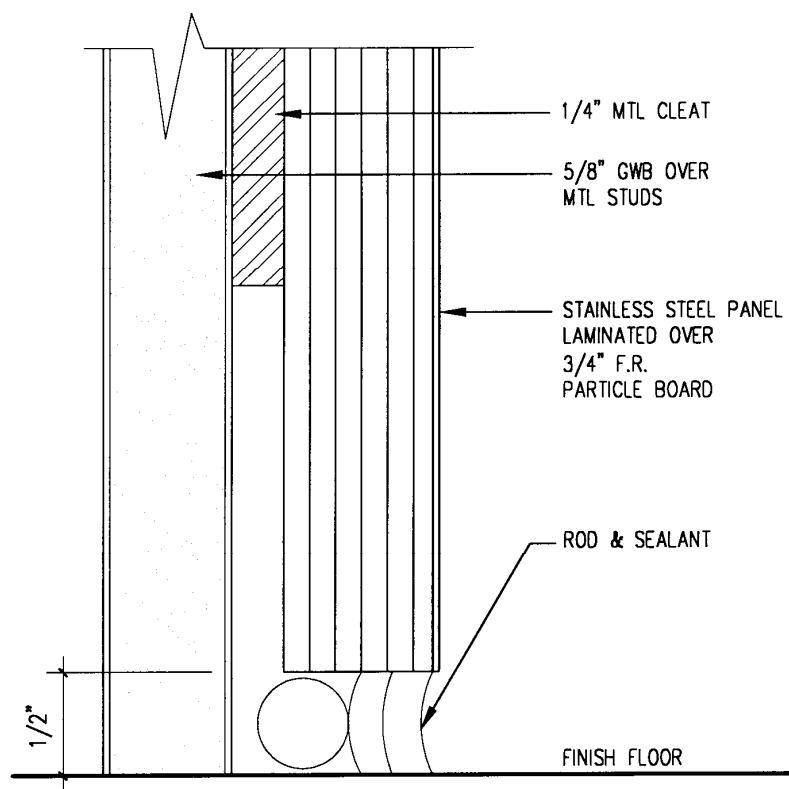
CSI Master Specification Division: 09720



## WALL DETAIL @ WAINSCOT TRANSITION

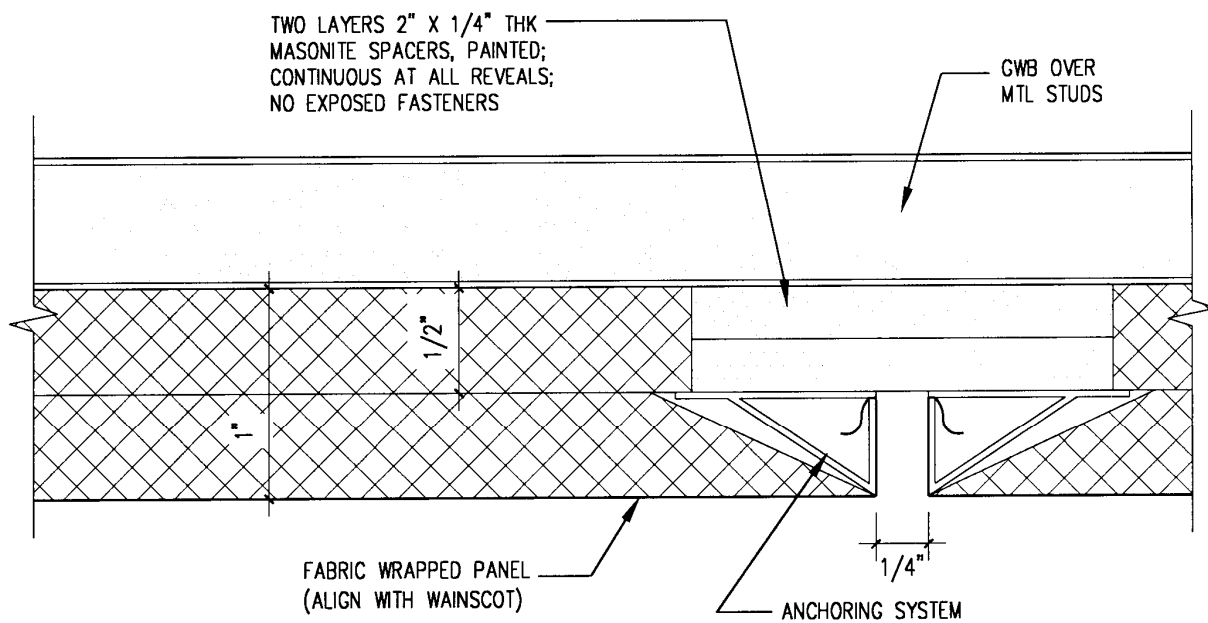
NTS; For Reference Only

CSI Master Specification Division: 09720



## WAINSCOT DETAIL @ BASE

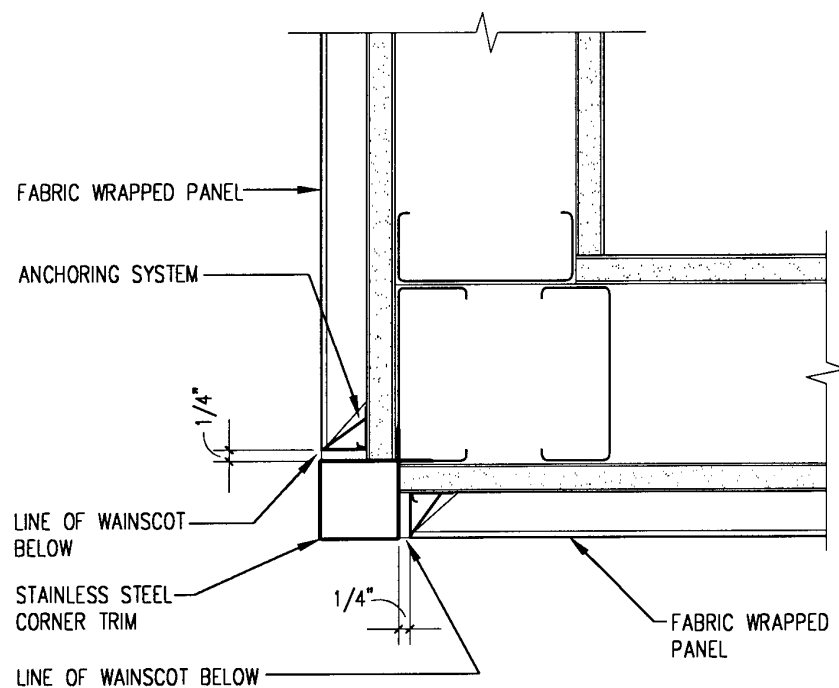
NTS; For Reference Only



## VERTICAL REVEAL BETWEEN PANELS

NTS; For Reference Only

CSI Master Specification Division: 09720



## WAINSCOT DETAIL @ CORNER

NTS; For Reference Only



CSI Master Specifications Division: 03400, 05580, 06420, 09250, 09750

**SUMMARY**

This section covers design requirements, materials and installation of finishes for interior columns.

Related sections:

C3010.40	Gypsum Board Wall Finishes
C3010.90	Interior Wall Painting

This section includes information on:

- A. Steel and Stainless Steel
- B. Granite
- C. Gypsum Board
- D. Glass Fiber Reinforced Gypsum(GFRG)
- E. Plastic Laminate
- F. Pre-cast Concrete

**DESIGN REQUIREMENTS**

- Finishes and surfaces shall be compatible and consistent with the general visual character of the other interior surfaces; including walls, ceilings and floors.
- Acceptable column cover materials are high-pressure plastic laminate, steel, stainless steel and granite, specified here for their durability and resistance to abuse in high traffic areas. These highly durable cover materials shall be used as a finish for all surfaces within the reach of the public. A different material can then be used above this height to mitigate costs (e.g. painted gypsum board). The use of painted GWB in areas deemed to be within public reach and other exceptions must be reviewed and approved by the Design Review Committee.
- Painted metal covers may be used only above the 35" wainscot height, or at an acceptable height as approved by the Design Review Committee.
- The Port of Seattle is to approve any use of textured steel to ensure that the surface will not collect dust and will be easy to clean.
- Always provide a base of 8" minimum height or a wainscot height of 35", whichever is applicable. Acceptable base and wainscot materials are stainless steel, granite, and high pressure plastic laminate to match the column cover.
- Columns must be protected with column corner guards of compatible durable material.
- Polished stainless steel finish is not allowed.
- Preference will be given to products with a high percentage of recycled content and those products manufactured and/or sourced from within 500 miles of the Airport.

CSI Master Specifications Division: 03400, 05580, 06420, 09250, 09750

- Sheet metal gage selected for damage resistance:
  - Stainless steel base - 14 or 16 gauge, backed with wood for impact resistance
  - Round columns - 14-gauge minimum unbacked
  - Square columns - 12-gauge minimum unbacked
  - Minimum 14 gauge is recommended for column covers
- For pre cast concrete columns, finish shall be light sandblasted to eliminate slight imperfections.
- New concrete columns shall match existing.

**MATERIALS/PRODUCTS****A. Steel and Stainless Steel**

Acceptable finishes:

Sheet material is required to be non-directional, 100 grit  
Formed or cast materials with flat faces are required to  
be non-directional, 100 grit  
Formed or cast materials with curved or shaped surfaces  
are required to be no. 4 brushed  
Bead blast finishes, sealers and coatings are not allowed

**B. Granite****C. Gypsum Board**

Acceptable finishes:

Paint, refer to Section C3010.90

**D. Glass Fiber Reinforced Gypsum (GFRG)**

Acceptable finishes:

Paint, refer to Section C3010.90

**E. Plastic Laminate**

Acceptable finishes:

Colored high-pressure decorative laminate with solid  
core, matte finish

Acceptable manufacturers:

Formica  
Nevamar  
WilsonArt  
Laminart  
InPro Sanparrel solid PET

**F. Pre-Cast Concrete**

Acceptable finishes:

Light sandblast

Acceptable manufacturers:

Refer to Section B1010.10

CSI Master Specification Division: 03400, 05580, 06420, 09250, 09750



**Granite Column Cladding**

CSI Master Specification Division: 03400, 05580, 06420, 09250, 09750



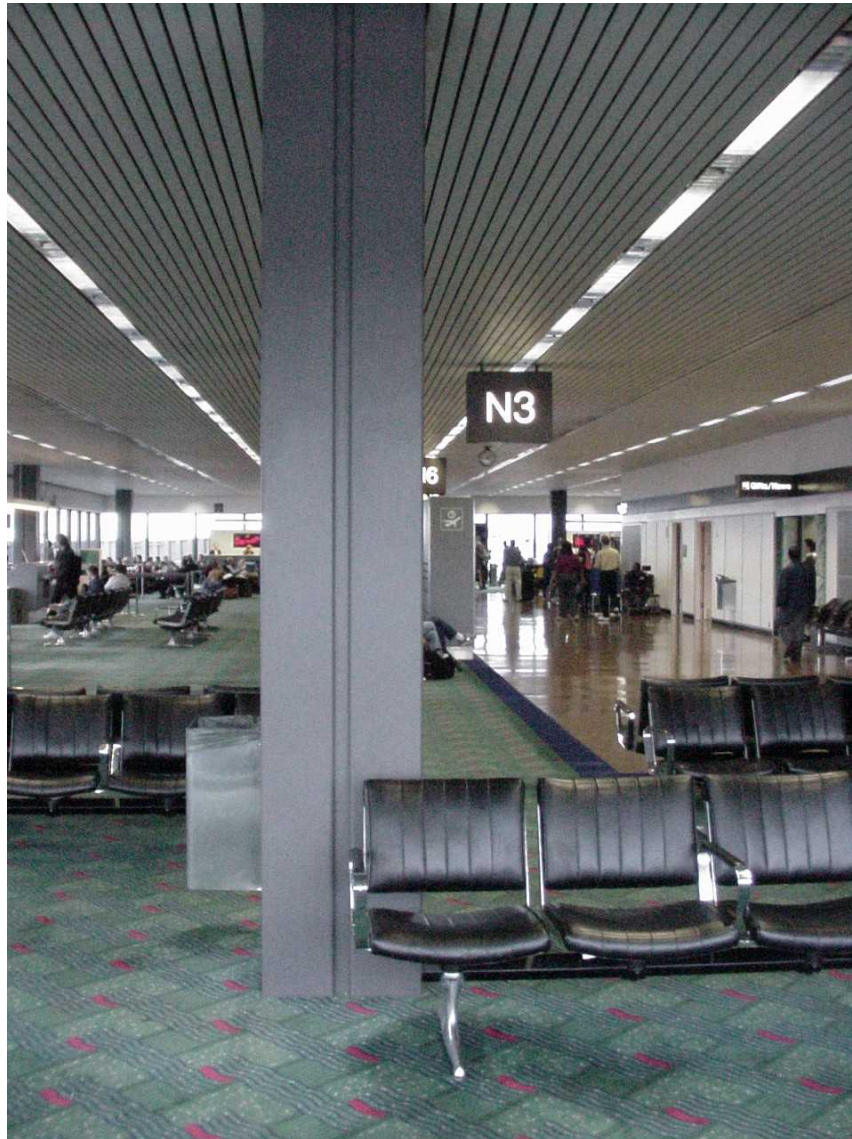
**Metal Column Cladding**  
Concourse C



**Section C30 - Interior Finishes**

**C3010.110**  
**Interior Wall Finishes - Column Covers**  
5 of 9

CSI Master Specification Division: 03400, 05580, 06420, 09250, 09750



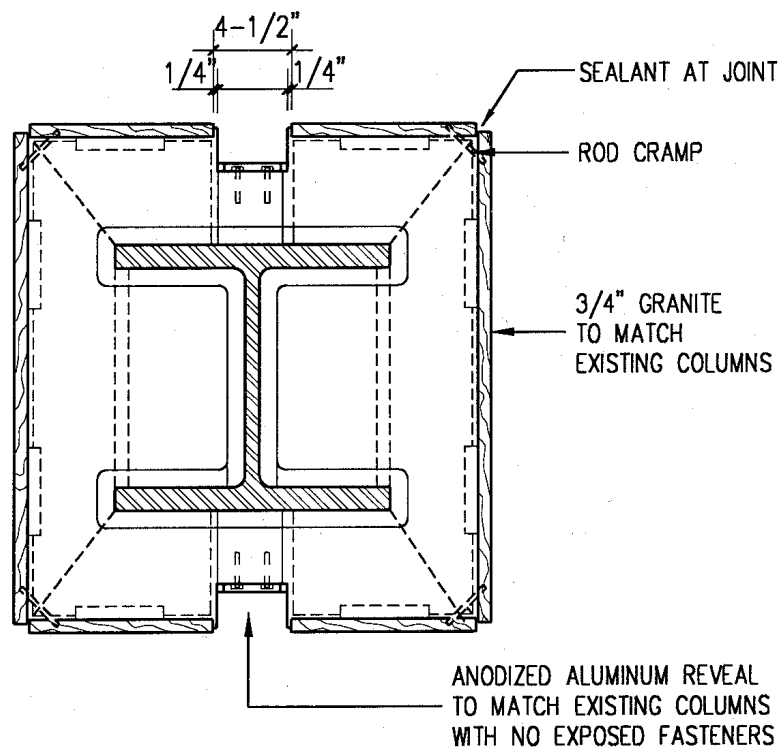
Plastic Laminate Column Cladding  
North Satellite

CSI Master Specification Division: 03400, 05580, 06420, 09250, 09750



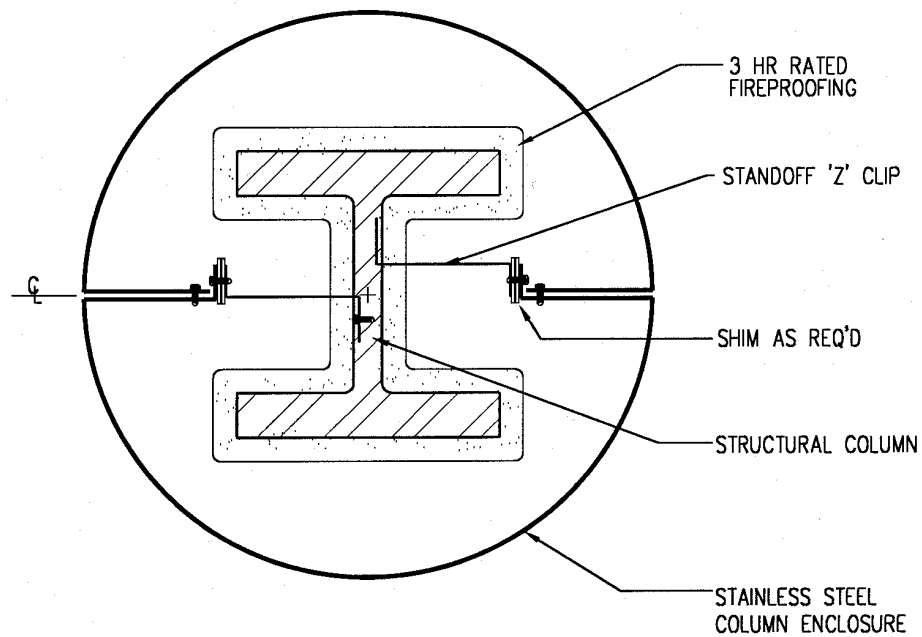
Exposed Concrete Column  
Bridge Level

CSI Master Specifications Division: 03400, 05580, 06420, 09250, 09750



## TYPICAL DETAIL GRANITE COLUMN COVER

NTS; For Reference Only

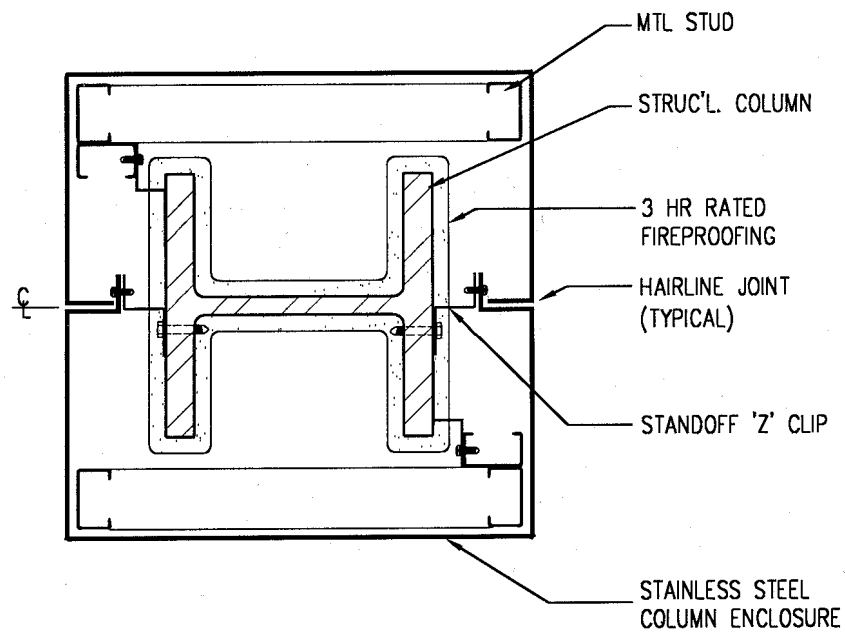


TYPICAL DETAIL METAL COLUMN COVER

NTS; For Reference Only



CSI Master Specifications Division: 03400, 05580, 06420, 09250, 09750



## TYPICAL DETAIL METAL COLUMN COVER

NTS; For Reference Only

CSI Master Specifications Division: 03400, 05580, 06420, 09250, 09750

**SUMMARY**

This section covers design requirements, materials and installation of finishes for interior columns.

Related sections:

C3010.40	Gypsum Board Wall Finishes
C3010.90	Interior Wall Painting

This section includes information on:

- G. Steel and Stainless Steel
- H. Granite
- I. Gypsum Board
- J. Glass Fiber Reinforced Gypsum(GFRG)
- K. Plastic Laminate
- L. Pre-cast Concrete

**DESIGN REQUIREMENTS**

- Finishes and surfaces shall be compatible and consistent with the general visual character of the other interior surfaces; including walls, ceilings and floors.
- Acceptable column cover materials are high-pressure plastic laminate, steel, stainless steel and granite, specified here for their durability and resistance to abuse in high traffic areas. These highly durable cover materials shall be used as a finish for all surfaces within the reach of the public. A different material can then be used above this height to mitigate costs (e.g. painted gypsum board). The use of painted GWB in areas deemed to be within public reach and other exceptions must be reviewed and approved by the Design Review Committee.
- Painted metal covers may be used only above the 35" wainscot height, or at an acceptable height as approved by the Design Review Committee.
- The Port of Seattle is to approve any use of textured steel to ensure that the surface will not collect dust and will be easy to clean.
- Always provide a base of 8" minimum height or a wainscot height of 35", whichever is applicable. Acceptable base and wainscot materials are stainless steel, granite, and high pressure plastic laminate to match the column cover.
- Columns must be protected with column corner guards of compatible durable material.
- Polished stainless steel finish is not allowed.

CSI Master Specifications Division: 03400, 05580, 06420, 09250, 09750

- Sheet metal gage selected for damage resistance:
  - Stainless steel base - 14 or 16 gauge, backed with wood for impact resistance
  - Round columns - 14-gauge minimum unbacked
  - Square columns - 12-gauge minimum unbacked
  - Minimum 14 gauge is recommended for column covers
- For pre cast concrete columns, finish shall be light sandblasted to eliminate slight imperfections.
- New concrete columns shall match existing.
- Preference will be given to products with a high percentage of recycled content and/or manufactured and sourced from within 500 miles of the Airport.

## MATERIALS/PRODUCTS

### C. Steel and Stainless Steel

Acceptable finishes:

Sheet material is required to be non-directional, 100 grit  
 Formed or cast materials with flat faces are required to be non-directional, 100 grit  
 Formed or cast materials with curved or shaped surfaces are required to be no. 4 brushed  
 Bead blast finishes, sealers and coatings are not allowed

### D. Granite

### C. Gypsum Board

Acceptable finishes:

Paint, refer to Section C3010.90

### D. Glass Fiber Reinforced Gypsum (GFRG)

Acceptable finishes:

Paint, refer to Section C3010.90

### G. Plastic Laminate

Acceptable finishes:

Colored high-pressure decorative laminate with solid core, matte finish

Acceptable manufacturers:

Formica  
 Nevamar  
 WilsonArt  
 Laminart  
 InPro Sanparrel

### H. Pre-Cast Concrete

Acceptable finishes:

Light sandblast

Acceptable manufacturers:

Refer to Section B1010.10

Refer to Section VI Technical Appendix G, *Environmental Guidelines and Criteria*, for information about acceptable adhesives and sealers.

**Section C30 – Interior Finishes**

**C3010.110  
Interior Wall Finishes - Column Covers**

3 of 9

CSI Master Specification Division: 03400, 05580, 06420, 09250, 09750



**Granite Column Cladding**

CSI Master Specification Division: 03400, 05580, 06420, 09250, 09750



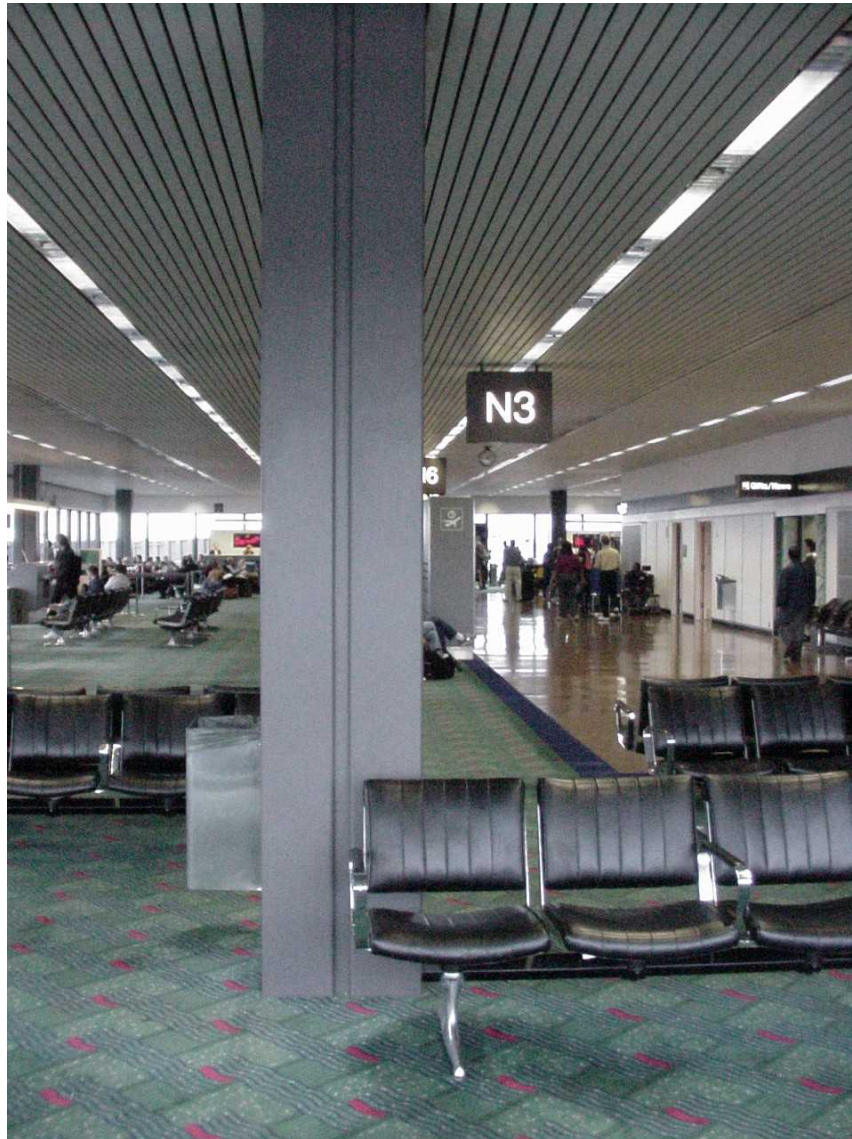
**Metal Column Cladding**  
Concourse C



**Section C30 - Interior Finishes**

**C3010.110**  
**Interior Wall Finishes - Column Covers**  
5 of 9

CSI Master Specification Division: 03400, 05580, 06420, 09250, 09750



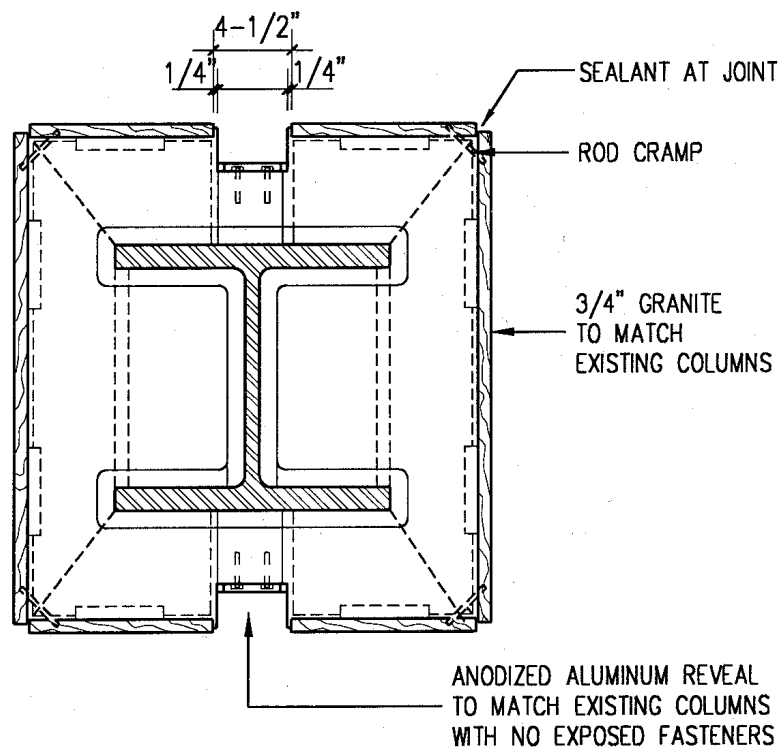
Plastic Laminate Column Cladding  
North Satellite

CSI Master Specification Division: 03400, 05580, 06420, 09250, 09750



Exposed Concrete Column  
Bridge Level

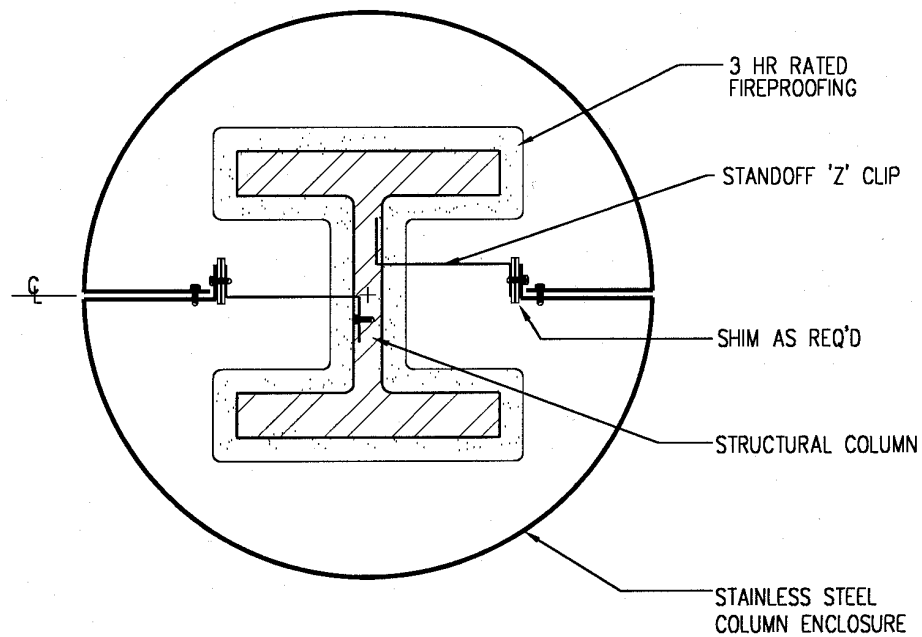
CSI Master Specifications Division: 03400, 05580, 06420, 09250, 09750



## TYPICAL DETAIL GRANITE COLUMN COVER

NTS; For Reference Only

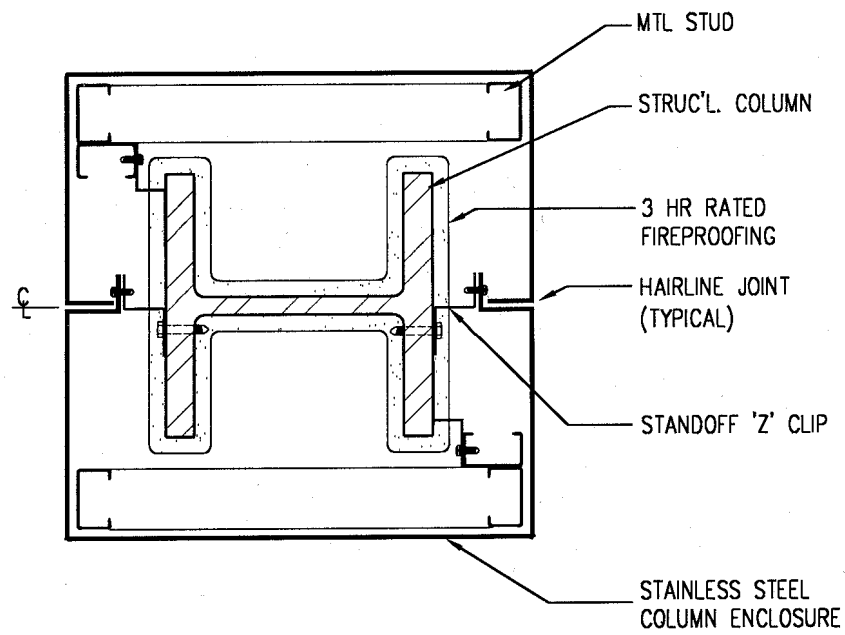




TYPICAL DETAIL METAL COLUMN COVER

NTS; For Reference Only

CSI Master Specifications Division: 03400, 05580, 06420, 09250, 09750



## TYPICAL DETAIL METAL COLUMN COVER

NTS; For Reference Only

CSI Master Specifications Division: 05050

## **SUMMARY**

This section covers design requirements, materials and installation of metal trims and metal accessories for various interior wall finish and column finish materials.

Related sections:

C3010.10	Plastic Laminate Panels
C3010.20	Wood Panels
C3010.30	Metal Wall Panels
C3010.110	Column Cladding

This section includes information on:

- A. Stainless Steel
- B. Aluminum

## **DESIGN REQUIREMENTS**

- Trim size and exposure shall be minimized so as not to interfere with the overall appearance of wall finish surfaces.
- All metal trims, edge covers and other metal accessories shall be stainless steel or aluminum.
- Preference is given to products with a high percentage of recycled content and/or manufactured within 500 miles of the Airport.

## **MATERIALS/PRODUCTS**

- A. Stainless Steel

Acceptable finishes:

Sheet material is required to be non-directional, 100 grit  
Formed or cast materials with flat faces are required to  
be non-directional, 100 grit  
Formed or cast materials with curved or shaped surfaces  
are required to be No. 4 brushed  
Bead blast finishes, sealers and coatings are not allowed

- B. Aluminum

Acceptable finishes:

Brushed aluminum

Refer to Section VI Technical Appendix G, *Environmental Guidelines and Criteria*, for information about acceptable adhesives and sealers.

CSI Master Specification Division: N/A

**SUMMARY**

This section covers design requirements, materials and installation of wall bases for interior wall and column cover finish systems.

Related sections:

C3010.10	Plastic Laminate Panels
C3010.20	Wood Panels
C3010.30	Metal Wall Panels
C3010.110	Column Cladding
C3020.20	Terrazzo Floor Finishes

This section includes information on:

- A. Stainless Steel
- B. Granite
- C. Pre-Cast Terrazzo
- D. Vinyl/Rubber Base
- E. Tile

**DESIGN REQUIREMENTS**

- Wall base material and finish shall be compatible with, if not similar to, the adjacent wall finish material and floor finish material.
- A base must be provided where a wainscoting of a durable material is not preferred.
- For new installations and renovations, base height is a minimum of 8" from finish floor. Base height shall also allow protection of wall surface from damage caused by floor maintenance equipment. Match adjacent existing base heights where necessary and applicable.
- Wall bases shall be stainless steel, granite, terrazzo or pre-cast terrazzo.
- 14 gauge or 16-gauge stainless steel shall be backed with wood for impact resistance; 10-gauge stainless steel shall be detailed for rigidity.
- Detail reveal or junction between base and wall/wainscot panel to allow removal of base and/or wall/wainscot panel without damage to either.
- Detail the junction between base and finish floor in such a way that dirt will not collect into the junction.
- Preference is given to products with a high percentage of recycled content.

## Section C30 - Interior Finishes

## C3010.130 Interior Wall Finishes - Wall Base 2 of 2

CSI Master Specification Division: N/A

### MATERIALS/PRODUCTS

- |                       |  |
|-----------------------|--|
| A. Stainless Steel    |  |
| Acceptable materials: | Steel laminated to particleboard   |
| Acceptable finishes:  | Sheet material is required to be non-directional, 100 grit<br>Formed or cast materials with flat faces are required to be non-directional, 100 grit<br>Formed or cast materials with curved or shaped surfaces are required to be No. 4 brushed<br>Bead blast finishes, sealers and coatings are not allowed |
| C. Granite            |  |
| Acceptable finishes:  | Honed  |
| D. Pre-Cast Terrazzo  |  |
| Acceptable finishes:  | Polished<br>Unpolished   |
| D. Vinyl/Rubber Base  | Not used in public spaces  |
| E. Tile               | Can be used for applications where tile floors and/or walls have been approved by the Design Review Committee  |

Refer to Section VI Technical Appendix, G, *Environmental Guidelines and Criteria*, for acceptable sealers, adhesives and coatings.

CSI Master Specifications Division: 05050, 06420

**SUMMARY**

This section covers design requirements, materials and installation of wainscoting for interior walls and columns.

Related sections:

C3010.10	Plastic Laminate Panels
C3010.20	Wood Panels
C3010.30	Metal Wall Panels
C3010.110	Column Cladding

This section includes information on:

- A. Stainless Steel
- B. Plastic Laminate
- C. Panel Trim

**DESIGN REQUIREMENTS**

- Where a wainscot is preferred in lieu of a base, the standard wainscot height shall be 35" from finish floor. Refer to Section C3010.10 for typical wainscot details.
- Wainscot panels shall have a heavy-duty finish, such as stainless steel laminate or high-pressure plastic laminate. Finish and colors must be visually compatible with, and consistent with, the overall wall appearance.
- The use of concealed metal cleats for panel attachment, as well as the use of manageable panel sizes, will allow easy removal and replacement of individual panels for repairs and cleaning purposes.
- Provide durable protection for all panel edges exposed to potential damage. Plastic laminate panels to be trimmed with stainless steel or aluminum trim or vinyl (PVC) panel trim. Stainless steel and other metal laminate panels to be trimmed with stainless steel or aluminum trim.
- Do not use exposed fasteners. Metal edges to be chamfered or rounded.
- Any product used to resemble wood is not to be used.
- Sealant at floor junctions must be dark colored and detailed so as not to form a deep pocket that may collect dust and dirt. Refer to Section C3010.10 details.
- Preference is given to products with a high percentage of recycled content.

CSI Master Specifications Division: 05050, 06420

**MATERIALS/PRODUCTS**

- |                           |  |
|---------------------------|--|
| A. Stainless Steel        |  |
| Acceptable finishes:      | Sheet material is required to be non-directional, 100 grit<br>Formed or cast materials with flat faces are required to<br>be non-directional, 100 grit<br>Formed or cast materials with curved or shaped surfaces<br>are required to be no. 4 brushed<br>Bead blast finishes, sealers and coatings are not allowed |
| B. Plastic Laminate       |  |
| Acceptable finishes:      | Colored high-pressure decorative laminate with solid<br>core, matte finish; neutral colors   |
| Acceptable manufacturers: | Formica<br>Nevamar<br>Wilson Art<br>InPro Sanparrel  |
| C. Panel Trim             |  |
| Acceptable materials:     | Stainless steel flat bar, or half-round trim<br>Aluminum flat bar, or half-round trim<br>PVC edging, 2 mm or 3 mm thick flat strip   |
| Acceptable manufacturers: | Woodtape PVC Edging  |

Refer to Section VI Technical Appendix G, *Environmental Guidelines and Criteria*, for information about acceptable adhesives and sealers.

CSI Master Specification Division: 09310

## **SUMMARY**

This section covers materials and installation of tiles for interior floor finishes.

This section includes information on:

### **A. Tile**

## **DESIGN REQUIREMENTS**

- High quality installation is of prime importance to minimize the risk of cracking.
- Use medium to medium light color palette, with minimal surface texture for easy and effective cleaning; coved bases for ease of maintenance.
- Use only porcelain ceramic tiles with integral material and color; minimum tile size 12" x 12".
- Use only medium or dark colored epoxy grout.
- Give preference to tiles that are made from a high percentage of recycled content and manufactured and/or sourced from within 500 miles of the Airport.

## **MATERIALS/PRODUCTS**

### **A. Tile**

Acceptable materials:

Unglazed  
Matte finish  
Slip resistant  
Cushion edge type  
Glazed (as accents only)



CSI Master Specification Division: 09400

**SUMMARY**

This section covers design requirements, materials and installation of thin set epoxy resin terrazzo, pre-cast terrazzo shapes for wall base and accessories, metal divider strips and other applicable interior terrazzo floor finish accessories.

Related sections:

C2020.10	Terrazzo Stair Finishes
C3020.60	Slip-Resistant Finishes

This section includes information on:

- A. Epoxy Resin Terrazzo
- B. Pre-cast Cove Bases
- C. Metal Divider Strips and Metal Control Strips
- D. Control Joint Fillers
- E. Carborundum

NOTE: Cementitious terrazzo is no longer acceptable for installation in the Airport.

**DESIGN REQUIREMENTS**

- Terrazzo floors are to be used in all high traffic and primary circulation public areas that require hard surface floors, including public stairs.
- Generally, a light color palette, with a maximum aggregate of size 5, should be used in all applications. Avoid bold patterns unless it is specially designated as artwork and approved by the Design Review Committee.
- To the maximum extent possible, the aggregate should include a high percentage of recycled glass, metal, and/or other material (minimum of 20%).
- Use zinc metal divider strips.
- Use a non-slip surface type sealer.
- Plastic dividers are not allowed.
- Preferable color for non-skid inserts at ramps is medium gray to maintain a tidy appearance, and to hide soiling and staining. The non-skid material shall be installed flush to the floor to minimize dirt entrapment and chipping.
- Base materials should be durable enough to resist abuse by terrazzo maintenance and buffing equipment. Ensure that base height is sufficient to protect the wall finish from equipment during maintenance procedures. Avoid base details that create pockets for dust and dirt to collect.

CSI Master Specification Division: 09400

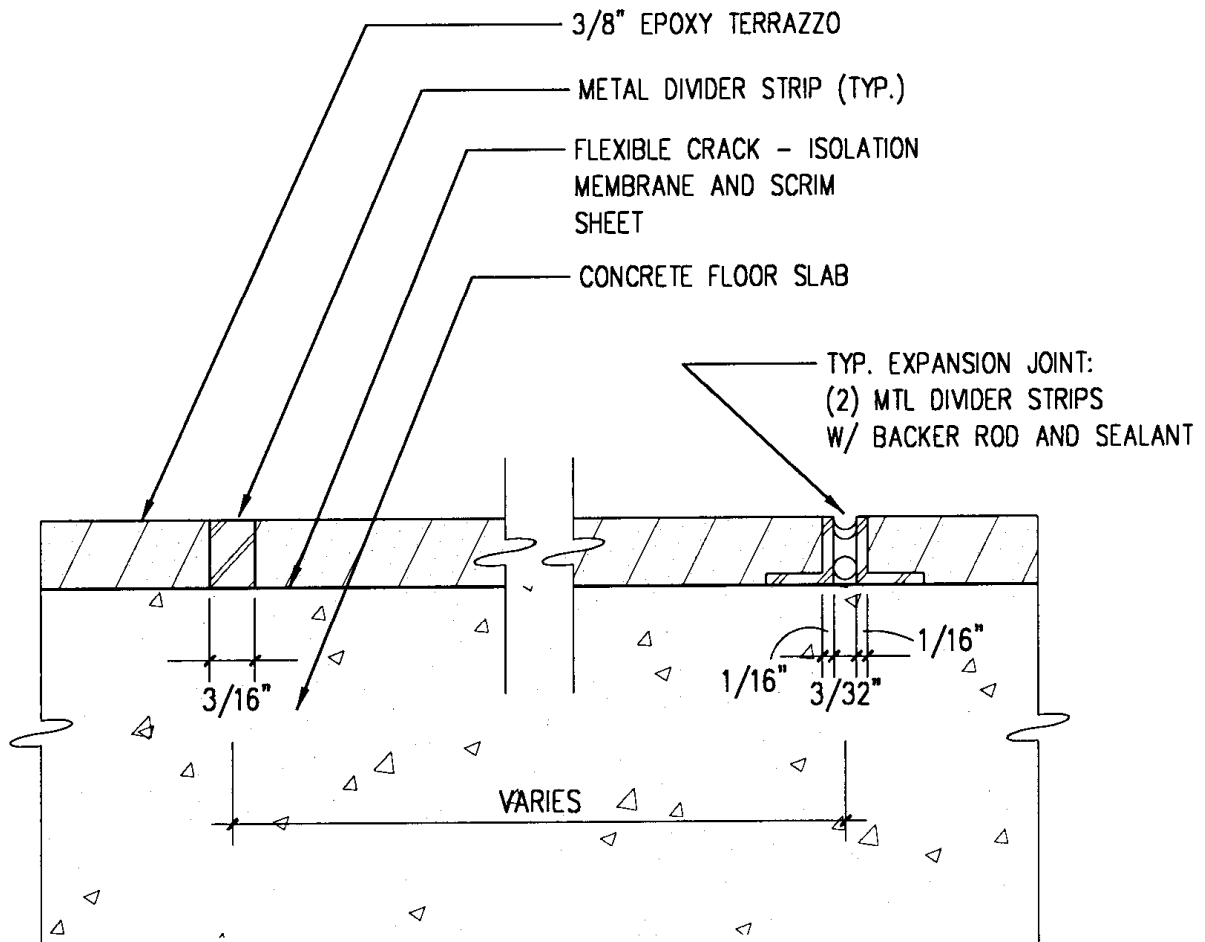
**MATERIALS/PRODUCTS**

- A. Epoxy Resinous Terrazzo  
Acceptable materials: 3/8" minimum thickness
  
- B. Pre-cast Cove Bases  
Acceptable materials: 3/4" radius cove, minimum
  
- C. Metal Divider and Metal Control Strips  
Acceptable materials: Minimum 16 gauge minimum zinc metal strips, 3/4" maximum width
  
- D. Control Joint Fillers  
Acceptable materials: Black epoxy
  
- E. Carborundum  
Acceptable materials: Non-skid inserts at ramps

NOTE: Cementitious Terrazzo is no longer acceptable for installation in the Airport.

Refer to Section VI Technical Appendix, G. *Environmental Criteria and Guidelines*, for requirements for sealers and adhesives.

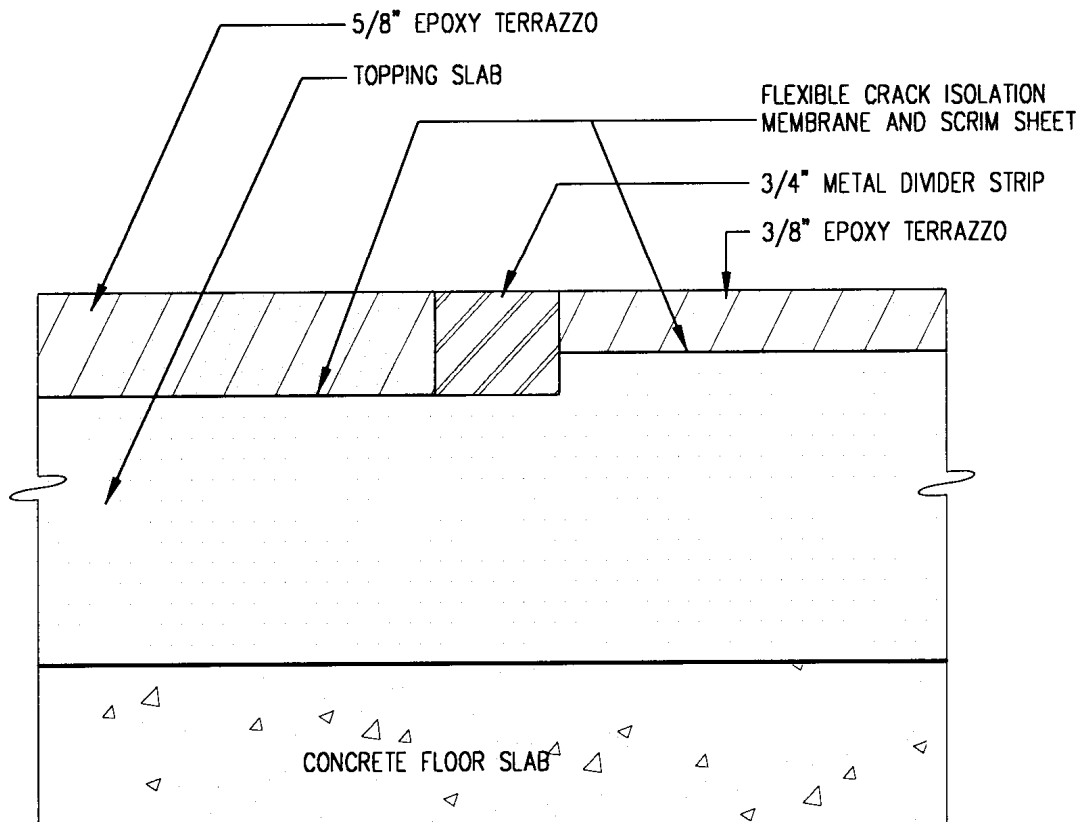
CSI Master Specification Division: 09400



## TYPICAL TERRAZZO FLOOR DETAIL

NTS; For Reference Only

CSI Master Specification Division: 09400



## TYPICAL TERRAZZO FLOOR DETAIL

NTS; For Reference Only

CSI Master Specification Division: 09630

**SUMMARY**

Stone flooring is not to be used as a finish material for any interior public space, except in special spaces such as the Central Terminal (future) and the South Hall (future).

Preference will be given to stone from domestic sources, when it is available.

**Section C30 - Interior Finishes**

**C3020.40**

**Interior Floor Finishes - Resilient Flooring**

1 of 1

CSI Master Specification Division: 09650

**SUMMARY**

Resilient flooring is not to be used as a finish material in any interior public space.

CSI Master Specification Division: 09680

**SUMMARY**

This section covers design requirements, products and installation of commercial broadloom, carpet tile and edge accessories for interior floor finishes.

This section includes information on:

- A. Broadloom Carpet
- B. Carpet Tiles

**DESIGN REQUIREMENTS**

- Preference is given to carpet tiles over broadloom.
- Carpet is to be used in low and moderate traffic areas, as well as in passive public areas, such as gate holdrooms.
- Carpet shall serve as a unifying element, and as such, should consist of a field pattern and an optional border pattern.
- For new installations do not use large graphic patterns that make seams difficult to match.
- For carpet tiles select patterns that permit random replacement of single tiles without disrupting the overall effect.
- Choose colors and patterns that can effectively camouflage dirt and stains, allow easy cleaning, maintenance and repairs. The Design Review Committee must approve all carpet selections.
- All carpet shall meet air quality test criteria of CRI (Carpet and Rug Institute) Green Label Plus certification.
- Preference will be given to products with a high percentage of recycled content.

**MATERIALS/PRODUCTS**

- |    |                      |  |
|----|----------------------|--|
| A. | Broadloom Carpet     |  |
|    | Acceptable products: | Multilevel textured loop<br>Flammability: less than or equal to .45, Class I<br>5/64" gauge (number of stitches/tufts per inch)<br>115,000 tufts per square yard (approx.)<br>18 x 24 pic woven polypropylene primary backing<br>Pile tuft shall be between .156" to .250"<br>Yarn weight: 32 ounces per square yard<br>Type 6,6 nylon yarn<br>Soil resistant fiber. |

**Section C30 - Interior Finishes**

**C3020.50**

**Interior Floor Finishes - Carpet**

2 of 3

CSI Master Specification Division: 09680

Solution dye (method of dyeing yarn)  
Yarn density: 5534 ounces per cubic yard  
Static control less than 3.5kV  
Smoke density (NFPA-258-T or ASTM-E-648): less than  
or equal to 450  
Methanamine Pill Test: self-extinguishing

**B. Carpet Tiles**

Acceptable products:

Flammability: less than or equal to .45, Class I  
5/64" gauge (number of stitches/tufts per inch)  
11.3 stitches per inch  
115,000 tufts per square yard (approx.)  
Pile tuft between .125" to .218"  
Yarn weight: 32 Ounces per square yard  
Type 6,6 nylon yarn  
Soil resistant fiber.  
Solution dye (method of dyeing yarn)  
Yarn density: 5534 ounces per cubic yard  
Smoke density (NFPA-258-T or ASTM-E-648): less than  
or equal to 450  
Methanamine Pill Test: self-extinguishing



CSI Master Specification Division: 09610

## **SUMMARY**

This section covers design requirements, materials and installation of slip-resistant inserts for terrazzo floor finishes.

Related sections:

C3020.20	Terrazzo Floor Finishes
C2020.10	Terrazzo Stair Finishes

This section includes information on:

A. Carborundum

## **DESIGN REQUIREMENTS**

- Non-skid inserts must be provided at stair tread nosings, ramps and other sloped floor surfaces, and shall be installed flush to the floor to minimize dirt entrapment and chipping of insert.
- A medium colored non-skid material is preferable to maintain a tidy appearance and hide soiling and staining.
- Preference will be given to product with a high percentage of recycled content.

## **MATERIALS/PRODUCTS**

A. Carborundum

Acceptable materials:

Aluminum oxide non-slips #46-70 grit for combination with matrix

CSI Master Specification Division: 09250, 09910

## **SUMMARY**

This section covers design requirements, materials and installation of metal joints, accessories, and gypsum panels for painted gypsum board interior ceiling and soffit finishes.

Related sections:

C3010.90 Interior Wall Painting

This section includes information on:

A. Gypsum Board Ceiling Systems

## **DESIGN REQUIREMENTS**

- Gypsum board ceiling finishes shall only be used in areas that are not easily susceptible to damage and soiling, and where ceiling space accessibility is not required.
- Gypsum board shall meet fire-resistance requirements and shall be water-resistant.
- All ceiling and soffits to be painted with the airport's standard color Sherwin Williams "Port Brew Super White".
- Ceilings shall be painted with a flat paint.
- Use corrosion resistant coated steel trims, control joints and accessories.
- Install smoke barriers as required by code. Smoke barriers to be clear glazing, and frameless with concealed fasteners.
- Preference will be given to products with a high percentage of recycled content and/or manufactured and sourced from within 500 miles of the Airport.

## **MATERIALS/PRODUCTS**

A. Gypsum Board Ceiling Systems

Acceptable materials:

Tapered edges

Acceptable finishes:

Three-coat paint finish system for all exposed work

Flat finish

Non-textured treatment

Refer to Section VI Technical Appendix G, *Environmental Criteria and Guidelines*, for information on acceptable adhesives, paint products and procedures.

CSI Master Specification Division: 09510

**SUMMARY**

This section covers design requirements, products and installation of pre-fabricated acoustical type ceiling panels for interior ceiling finishes.

This section includes information on:

- A. Acoustical Ceiling Panels
- B. Acoustical Suspension System

**DESIGN REQUIREMENTS**

- Use white acoustical panels that comply with all requirements for fire resistance, thermal, sound and noise reduction properties, deflection, contraction and expansion.
- To achieve a more uniform and well-maintained appearance, as well as to allow ease of handling, use only 2' x 2' size ceiling tiles.
- Installation shall allow ease of removal and replacement of damaged tiles.
- Ensure future availability of acoustic tile product to match initial installations.
- Suspension system will be the airport standard grid system as specified in this section.
- No concealed grids or splines will be allowed.
- Install smoke barriers as required by code. Smoke barriers to be clear glazing, and frameless with concealed fasteners.
- Preference will be given to products with high percentage of recycled content.

**MATERIALS/PRODUCTS**

- A. Acoustical Ceiling Panels
  - Acceptable materials: Size: 2' x 2'
  - Acceptable finishes: Color: white
- B. Acoustical Suspension System
  - Acceptable materials: 9/16" grid
  - Acceptable finishes: Color: white

CSI Master Specification Division: 09545

## **SUMMARY**

This section covers design requirements, products and installation of linear metal ceilings for interior ceiling finishes.

*Note: Ceilings were selected in 1999 through a competitive process. The selection was made after the Port of Seattle Facilities and other entities evaluated ceiling mock-ups installed by a number of vendors.*

This section includes information on:

### **A. Linear Metal Ceiling**

## **DESIGN REQUIREMENTS**

- All linear metal ceilings shall match existing. They shall be white perforated metal, baked enamel, fluorocarbon resin or powder coated, with adhered acoustic inserts.
- Ceiling color shall be white throughout so as to maintain a quality of openness and brightness in the interior spaces.
- Durability, ease of plank removal and replacement, as well as ease of cleaning should all be considered in product choice.
- Install smoke barriers as required by code. Smoke barriers to be clear glazing, and frameless with concealed fasteners.
- Preference will be given to product with a high percentage of recycled content (minimum 45%).

## **MATERIALS/PRODUCTS**

### **A. Linear Metal Ceiling**

Acceptable products: Simplex Ceilings  
12" wide, white perforated metal ceiling planks; perforation pattern #2 with 0.25" (1/4") unperforated border; 12% open area with stainless steel torsion spring suspension system installed with 0.40" aluminum Simplex "T" non-woven acoustical textile integral plenum barrier  
Refer to following photographs of existing ceiling finish  
Match existing 4" wide Paraline linear metal ceiling panels: Donn USG  
"Paraline 1 Integral Splice Perforated Texture Steel Ceiling"  
Color: white

Vendors:

*Building Specialties* Contact: Kevin Miller (Telephone: 425.488.9555)

*Audio Acoustics* Contact: Rod Morden (Telephone: 206.284.4730)  
*Mehrer Drywall* Contact: Doug Bixel (Telephone: 206.282.4288)



Linear Metal Ceiling  
Escalator Well





Linear Metal Ceiling  
Ticket Lobby

CSI Master Specification Division: 09510

## **SUMMARY**

This section covers design requirements, products and installation of metal ceiling panels for interior ceiling finishes.

*Note: Ceilings were selected in 1999 through a competitive process. The selection was made after the Port of Seattle Facilities and other entities evaluated ceiling mock-ups installed by a number of vendors.*

This section includes information on:

### **A. Metal Ceiling Panel**

## **DESIGN REQUIREMENTS**

- Ceiling color shall be white throughout so as to maintain a quality of openness and brightness in the interior spaces.
- All metal ceiling finishes shall be white perforated.
- Durability, ease of plank removal and replacement, as well as ease of cleaning should all be considered in product choice.
- Products with high recycled content and those that are manufactured locally will be given preference.
- Install smoke barriers as required by code. Smoke barriers to be clear glazing, and frameless with concealed fasteners.
- Steel panels shall be 20-gauge minimum. Aluminum panels shall be minimum 0.04" thick.
- Preference will be given to products with a high percentage of recycled content and those manufactured and/or sourced from within 500 miles of the Airport.

## **MATERIALS/PRODUCTS**

### **A. Metal Ceiling Panel**

Acceptable products:

Simplex "Snap-In" series

2' x 2' or 2' x 4'

Perforation pattern #2; 0.0625" (1/16") diameter holes at 0.226"; 45-degree staggered centers; 0.24" unperforated borders; baked enamel, fluorocarbon resin or powder coated; with adhered acoustic inserts

Color: white



CSI Master Specification Division: 14200

## **SUMMARY**

This section covers design requirements, materials and installation of public elevators.

Related sections:

D10.20	Escalators
D10.30	Moving Walks
C3010	Interior Wall Finishes

This section includes information on:

A. Elevators

## **DESIGN REQUIREMENTS**

- Cab sizes and weight capacities of elevators must be determined accordingly based on projected traffic volumes.
- Interior panels shall be either applied or removable panels of plywood or wood coreboard construction with plastic laminate or stainless steel facing. Plastic laminate finish as selected by the Architect and shall be subject to approval by Port of Seattle. Provide mounting method that prevents rattling or vibration.
- Any plywood, composite wood, or laminate adhesive used to fabricate surface finishes within the cab shall contain no added urea formaldehyde.
- Handrail to be 1 1/2" diameter brushed stainless steel tubular handrail at the sides and rear of the car as applicable.
- Base shall be non-directional 100 grit brushed stainless steel.
- Exposed fasteners are not allowed.
- Bumpers shall be installed on 3 sides of elevator cab to protect against damage by carts.
- Ceiling shall be stainless steel or wood panel.
- In passenger elevator cabs flooring is to be epoxy terrazzo or carpet as approved by the Design Review Committee. In service elevators flooring shall be rubber tile or other resilient flooring surface.
- Utilize standard manufacturer control panel layout and finishes that meet ADA requirements.
- See STIA Signing and Graphics Guidelines.
- Preference will be given to products with a high percentage of recycled content and/or those manufactured within 500 miles of the project.

## Section D10 - Services and Conveying Systems

### D10.10 Elevators 2 of 2

CSI Master Specification Division: 14200

#### MATERIALS/PRODUCTS

##### A. Elevators

Acceptable stainless steel finishes: Sheet material is required to be non-directional, 100 grit  
Formed or cast materials with flat faces are required to be non-directional, 100 grit  
Formed or cast materials with curved or shaped surfaces are required to be no. 4 brushed  
Bead blast finishes, sealers and coatings are not allowed

Acceptable manufacturers: Otis Elevator Company  
Montgomery/KONE Elevator Company  
Schindler Elevator Company  
Thyssen Elevator  
Winter and Bain

CSI Master Specification Division: 14300

## **SUMMARY**

This section covers design requirements, products and installation of escalators.

Related sections:

C3010	Interior Wall Finishes
D10.10	Elevators
D10.30	Moving Walks

This section includes information on:

A. Escalators

## **DESIGN REQUIREMENTS**

- Escalator widths and capacities shall be determined accordingly based on projected traffic volume and baggage size accommodation.
- In general, the Standards apply to the walls that enclose the escalators down to the next level. Wall finishes shall match those at the concourse or other terminal area from which the escalator begins. Refer to Section IV-C.
- Provide all required safety devices and features.
- Typical balustrade shall be clear glazing or stainless steel.
- Typical, decking, trim and skirt panels to be brushed stainless steel or black or bronze anodized metal as appropriate.
- Handrail color shall be black.
- Refer to following photographs of existing escalators.
- Preference will be given to products with a high percentage of recycled content and/or those manufactured within 500 miles of the project.
- 

## **MATERIALS/PRODUCTS**

A. Escalators

Acceptable stainless steel finishes: Sheet material is required to be non-directional, 100 grit  
Formed or cast materials with flat faces are required to be non-directional, 100 grit  
Formed or cast materials with curved or shaped surfaces are required to be no. 4 brushed

Acceptable manufacturers:

Bead blast finishes, sealers and coatings are not allowed

Otis Elevator Company

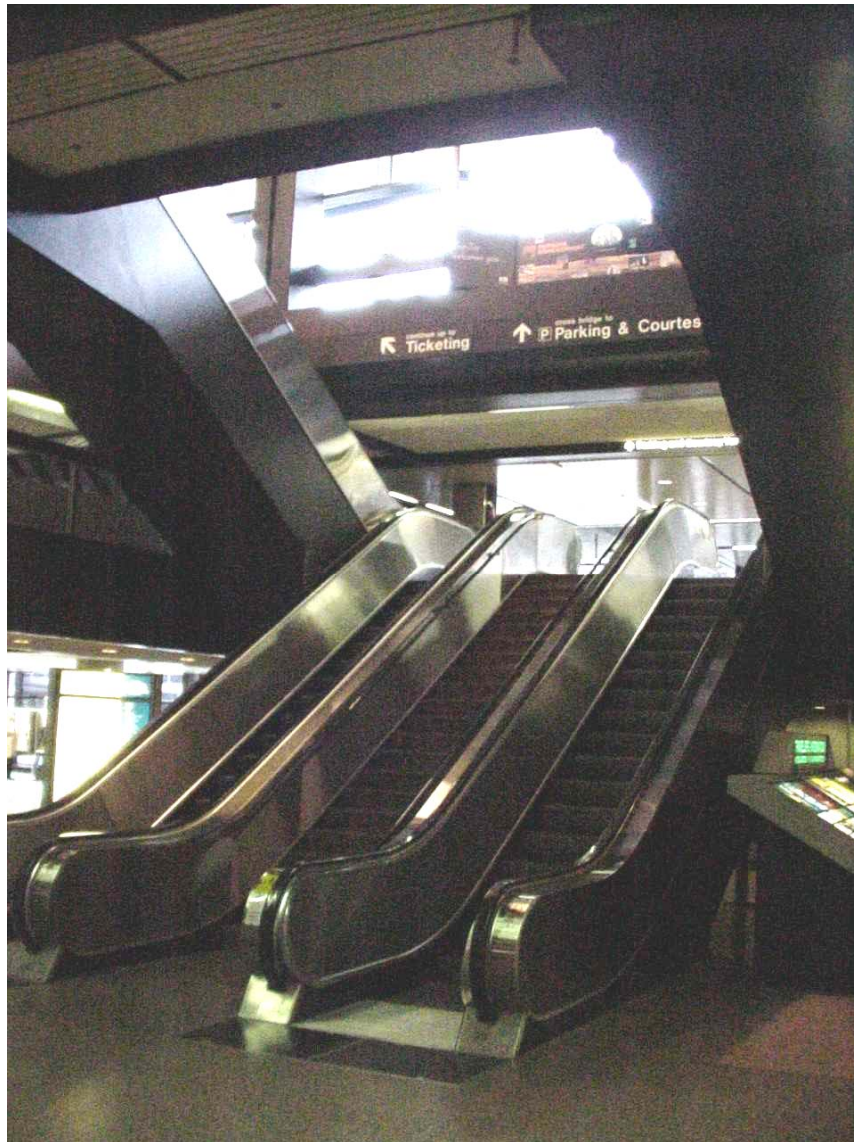
Montgomery/KONE Elevator Company

Schindler Elevator Company

## Section D10 - Services and Conveying Systems

### D10.20 Escalators 2 of 2

CSI Master Specification Division: 14300



Escalator Well

CSI Master Specification Division: 14300

## **SUMMARY**

This section covers design requirements, products and installation of moving walks.

Related sections:

C1010.10 Interior Construction – Railings

This section includes information on:

A. Moving Walks

## **DESIGN REQUIREMENTS**

- Width of moving walks must be determined accordingly based on projected traffic volumes.
- Provide all required safety devices and features.
- Typical balustrade to be clear glazing or brushed stainless steel.
- Typical decking, trim and skirt panels to be brushed stainless steel.
- Handrail color to be black.

## **MATERIALS/PRODUCTS**

A. Moving Walks

Acceptable stainless steel finishes: Sheet material is required to be non-directional, 100 grit  
Formed or cast materials with flat faces are required to be non-directional, 100 grit  
Formed or cast materials with curved or shaped surfaces are required to be no. 4 brushed  
Preference will be given to products with a high percentage of recycled content and/or those manufactured within 500 miles of the project.

Acceptable manufacturers: Bead blast finishes, sealers and coatings are not allowed  
Otis Elevator Company  
Montgomery/KONE Elevator Company  
Schindler Elevator Company  
Thyssen Elevator  
Winter and Bain

CSI Master Specification Division: 14950

**SUMMARY**

This section covers design requirements, products and installation of aircraft passenger loading bridges.

This section includes information on:

- A. Structural Steel
- B. High-Strength Alloy Steel
- C. High-Strength Bolts and Hinge Pins

**DESIGN REQUIREMENTS**

- The interior of loading bridges shall be durable and easy to clean.
- Ceiling shall be linear aluminum with a brushed aluminum finish.
- Emergency lighting as required by code.
- Black aluminum corner molding shall finish the ends of the ceiling plank and the top edge of the wall panels.
- Transition ramps shall have a 1/4" black ribbed rubber finish.
- Interior walls shall be floor to ceiling high-pressure laminate phenolic plastic panels with matte finish. Wall treatments in the pivoting sections shall be galvanized steel slats.
- Exterior to be painted custom color.
- Floors shall be carpet refer to Section C3020.50.
- Minimum interior clear dimensions to be as follows:

Minimum floor width	4'-10"
Minimum interior height	7'- 0"
Minimum inter-tunnel ramp width	4'- 8"
Minimum corridor width	4'-4 1/2"
- Support columns and other support structures for the loading bridges shall be finished to match or be compatible with the bridge's exterior finishes.
- Bag slides to be attached to service stairs, and shall be fully covered.
- Service door to be steel, half wire glass, hollow core, and to meet applicable fire rating requirements. Door shall open outward onto the landing and equipped with heavy-duty weather proof closer; provide a 30" 16 gauge stainless steel kick plate on the lower interior and exterior sides of door.
- See STIA Mechanical Systems Standards: Refer to Pre-conditioned Air Handling Units for Field Installation.
- See STIA Electrical Systems Standards: Rotary 400 Hertz Converters.
- Preference will be given to products with a high percentage of recycled content and those manufactured and sourced from within 500 miles of the Airport.

CSI Master Specification Division: 14950

**MATERIALS/PRODUCTS**

**A. Structural Steel**

Acceptable materials:

Structural tubes and shapes

Steel pipes

Steel sheets

Steel plate

Acceptable finishes:

Painted interior exposed steel surfaces: finish coat to be Sherwin Williams high solids Polane H polyurethane; dry film thickness to be 2-3 mils., color to match adjacent wallboards

Painted exterior surfaces: finish coat to be Sherwin Williams Polane H polyurethane total dry film thickness to be 6-20 mils

Polane polyurethane to be shop-applied only.

See Section IV Technical Appendix, G. *Environmental Criteria and Guidelines* for information regarding painting procedures and products that are permitted within the interior of the Airport.

**B. High-Strength Alloy Steel**

**C. High-Strength Bolts and Hinge Pins**



CSI Master Specification Division: 14540

## **SUMMARY**

This section covers design requirements, products and installation of baggage claim devices.

This section includes information on:

A. Baggage Claim Devices

## **DESIGN REQUIREMENTS**

- Provide all required safety devices and features.
- Shroud, trim, and base are to be stainless steel.
- Sloped palettes are to be stainless steel, PVC is not allowed.
- Crescent (flat) palettes are to be black.
- Provide guard rails at base of feed points.
- Provide continuous, smooth surfaces with no sharp edges.
- Preference will be given to products with a high percentage of recycled content and those manufactured and/ or sourced from within 500 miles of the Airport.

## **MATERIALS/PRODUCTS**

A. Baggage Claim Devices

Acceptable stainless steel finishes: Sheet material is required to be non-directional, 100 grit  
Formed or cast materials with flat faces are required to be non-directional, 100 grit  
Formed or cast materials with curved or shaped surfaces are required to be no. 4 brushed  
Bead blast finishes, sealers and coatings are not allowed

CSI Master Specification Division: N/A

## **SUMMARY**

This section covers design requirements, materials and installation of alcoves and service cores as enclosures for various unmanned passenger service equipment, including but not limited to: telephones, vending machines, newspaper racks, ATM machines, lockers, phone card machines, shoe shine stands, and mailboxes.

## **DESIGN REQUIREMENTS**

- Finishes and materials shall match or be compatible with adjacent wall, floor and ceiling finishes, as well as with the general visual character of the surrounding interior space.
- Ensure an orderly and uncluttered placement of the different service equipment their locations shall not disrupt the traffic flow within the terminal public areas.
- Unmanned passenger services will be recessed in alcoves or wall. Exceptions require approval from the Design Review Committee.

## **MATERIALS/PRODUCTS**

N/A

CSI Master Specification Division: N/A

## **SUMMARY**

This section covers design requirements, materials and installation of passengers' unclaimed baggage storage lockers in the baggage claim areas.

This section includes information on:

- A. Stainless Steel
- B. Metal

## **DESIGN REQUIREMENTS**

- Finishes and materials shall match the baggage claim area railings, or other major finish features within the baggage claim area.
- Ensure an orderly and uncluttered location for baggage lockers, which does not disrupt passenger activities within the baggage claim area, but is easily accessible to passengers.

## **MATERIALS/PRODUCTS**

- A. Stainless Steel

Acceptable stainless steel finishes: Sheet material is required to be non-directional, 100 grit  
Formed or cast materials with flat faces are required to be non-directional, 100 grit  
Formed or cast materials with curved or shaped surfaces are required to be no. 4 brushed  
Bead blast finishes, sealers and coatings are not allowed  
Preference shall be given to materials and products with a high percentage of recycled content and/or manufactured and sourced from within 500 miles of the Airport.

- B. Metal

**Section E10 – Equipment**

**E1010.20**  
**Baggage Storage Units**  
2 of 2

CSI Master Specification Division: N/A



Baggage Storage Units

CSI Master Specification Division: 10520

## **SUMMARY**

This section covers design requirements, materials and installation of fire extinguisher cabinets.

This section includes information on:

A. Fire Extinguisher Cabinets

## **DESIGN REQUIREMENTS**

- Cabinets shall be semi-recessed mounted, protruding not more than 2-1/2" from face of the wall. Each cabinet shall house one fire extinguisher and be sized accordingly.
- Provide a single break glass panel in solid door. Door material to be stainless steel or aluminum, satin anodized finish. Surface mounted door handle shall be finished to match door.
- Roll edge trim shall be the same material and finish as the door.
- There shall be no lettering on door or trim.
- Box to be steel sheet, factory painted.
- Break glass hammer to be attached with chain.
- Battery operated anti-theft alarm.

## **MATERIALS/PRODUCTS**

A. Fire Extinguisher Cabinets

Acceptable products:

"Architectural Series AL-2409-6R, Duo Break Glass Door" by Larsen's Manufacturing Company or matching product

Acceptable manufacturers:

Larsen's Manufacturing Company  
J.L. Industries  
Potter-Roemer Division/Smith Industries, Inc.  
Watrous Division of American Specialties

CSI Master Specification Division: 10520

## **SUMMARY**

This section covers design requirements, materials and installation of fire hose cabinets.

This section includes information on:

- A. Fire Hose Cabinets

## **DESIGN REQUIREMENTS**

- Cabinets to be mounted fully recessed, with overlapping trim. Door and cabinet trim shall be flush and of the same material and finish.
- Size to be 34" high by 26" wide by 8" deep.
- Provide break glass panel in solid door. Door material to be stainless steel or aluminum with satin anodized finish. Surface mount the door handle and finish it to match the door.
- There shall be no lettering on door or trim.
- Cabinet box to be factory painted sheet steel.
- Break glass hammer to be attached with chain.

## **MATERIALS/PRODUCTS**

- A. Fire Hose Cabinets
  - Acceptable products: "AL-HC2634-R, Duo Break Glass Door", by Larsen's Manufacturing Company or matching product
  - Acceptable manufacturers: Larsen's Manufacturing Company  
J.L. Industries  
Potter-Roemer Division/Smith Industries, Inc.  
Watrous Division of American Specialties

CSI Master Specification Division: 10450

**SUMMARY**

This section covers design requirements, materials and installation of movable queuing rails.

This section includes information on:

- A. Movable Queuing Rails

**DESIGN REQUIREMENTS**

- Rails to include concealed retractable belt.
- Provide a cover plate for the rail base.
- Refer to following photograph.

**MATERIALS/PRODUCTS**

- A. Movable Queuing Rails

Acceptable manufacturers:

Lavi Industries, Beltrac Public Guidance System, or  
matching product

Preference shall be given to products made with a high  
percentage of recycled content and/or manufactured  
and sourced within 500 miles of the Airport.

CSI Master Specification Division: 10450



Movable Queuing Rail



CSI Master Specification Division: 12320

## **SUMMARY**

This section covers design requirements, materials, fabrication and installation of all airport provided architectural casework including but not limited to: check-in counters and bagwells, gate podiums and backwalls, airline customer service counters, ticket lift podiums, gate card readers, curbside check-in counters, baggage service counters, baggage claim storage units, airport security counters, ground transportation service and information counters, bus kiosks, solicitors' booths, tour group counters, and public information counters.

This section does not cover the following items: flight information display equipment enclosures, baggage information display equipment enclosures, airport information equipment enclosures, hospitality information equipment enclosures, and foreign currency exchange counters. Refer to the STIA Signing and Graphics Guidelines, Environmental Graphic Design Master Plan, Advertising Graphic and Display Design Guidelines, and Retail Concession Tenant Design Guidelines.

This section includes information on:

- A. High Pressure Decorative Plastic Laminate
- B. Stainless Steel

## **DESIGN REQUIREMENTS**

- **In order to maintain a unified look throughout the terminal public areas, all casework and cabinetry designs, new counters and other related elements must consistently conform to the established standard casework design and appearance.** Refer to the **Casework Standards Manual** of Seattle-Tacoma International Airport published September 2003 and revised December, 2008.

The typical ticket counter details shown as reference drawings in this section establishes this standard design and appearance, and shall be used for all other airport provided service counters including but not limited to: check-in counter, curbside check-in counter, gate podium, baggage service counter, security counters, and miscellaneous traveler information counters.

- The typical single ticket counter dimensions are 36" clear inside width and 31" clear inside depth to accommodate the airport provided standard ticket counter insert. Always verify the exact ticket counter insert dimensions.
- For every double ticket counter positions provide a 42" wide bagwell and a stainless steel scale.
- Surface material must exhibit a matte and even appearance, and must be resistant to dents, scratches, nicks and other deformities caused by arbitrary public abuse.

CSI Master Specification Division: 1232

- Color and finish must be fade resistant, with a uniform color intensity throughout the finish, and shall not exhibit visual changes in color and the even appearance of the material when scratched or subjected to fingerprints.
- Casework design shall be based on modular panel components, factory produced, and interchangeable for flexibility.
- Assembly of components shall be by concealed mechanical fasteners. They shall be rigid, sturdy and give an overall neat and unobtrusive appearance, showing no loose or poorly constructed joints.
- Trims and edge protections shall be stainless steel, no. 4 brushed finish.
- Use commercial grade hardware, finish as appropriate. Use master keying system for all locks.
- Select materials that are expected to be available in the future.
- For gates at counters provide rigid and durable supports at the wall hinge location, such as tubular steel jambs and steel bar support assemblies within the stud wall.
- Designs for all backwalls behind service counters shall consistently conform to the established standard backwall details and appearance.
- Verify all insert dimensions with the Port of Seattle.
- Preference shall be given to material with a high percentage of recycled content (minimum 45%).

**MATERIALS/PRODUCTS**

A. High Pressure Decorative Plastic Laminate

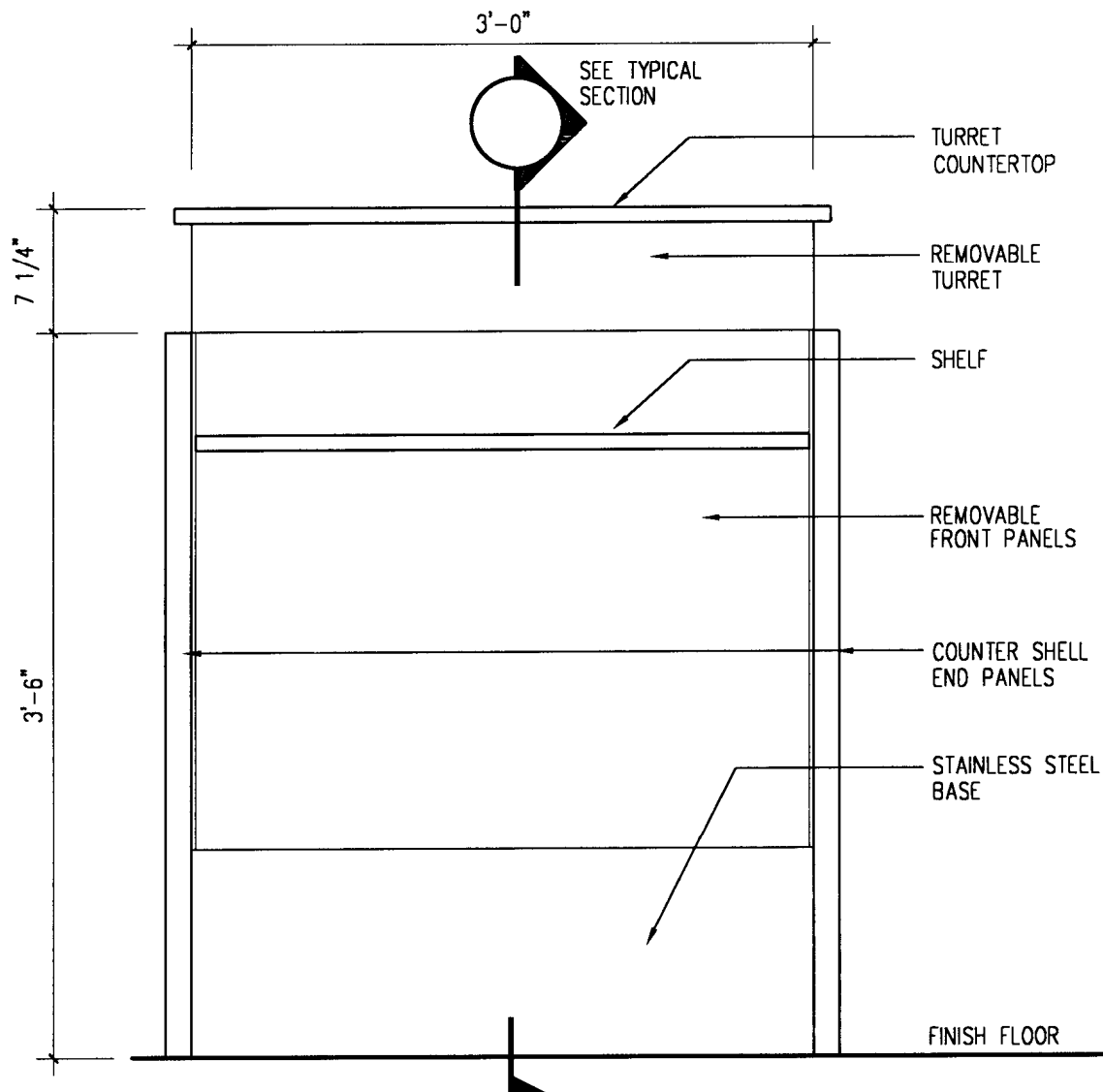
Acceptable finishes: Matte finish, non-glare

B. Stainless Steel

Acceptable stainless steel finishes: Sheet material is required to be non-directional, 100 grit  
Formed or cast materials with flat faces are required to be non-directional, 100 grit  
Formed or cast materials with curved or shaped surfaces are required to be no. 4 brushed  
Bead blast finishes, sealers and coatings are not allowed

Refer to Section VI Technical Appendix, G. *Environmental Criteria and Guidelines*, for acceptable adhesives, sealants, sealers and substrates.

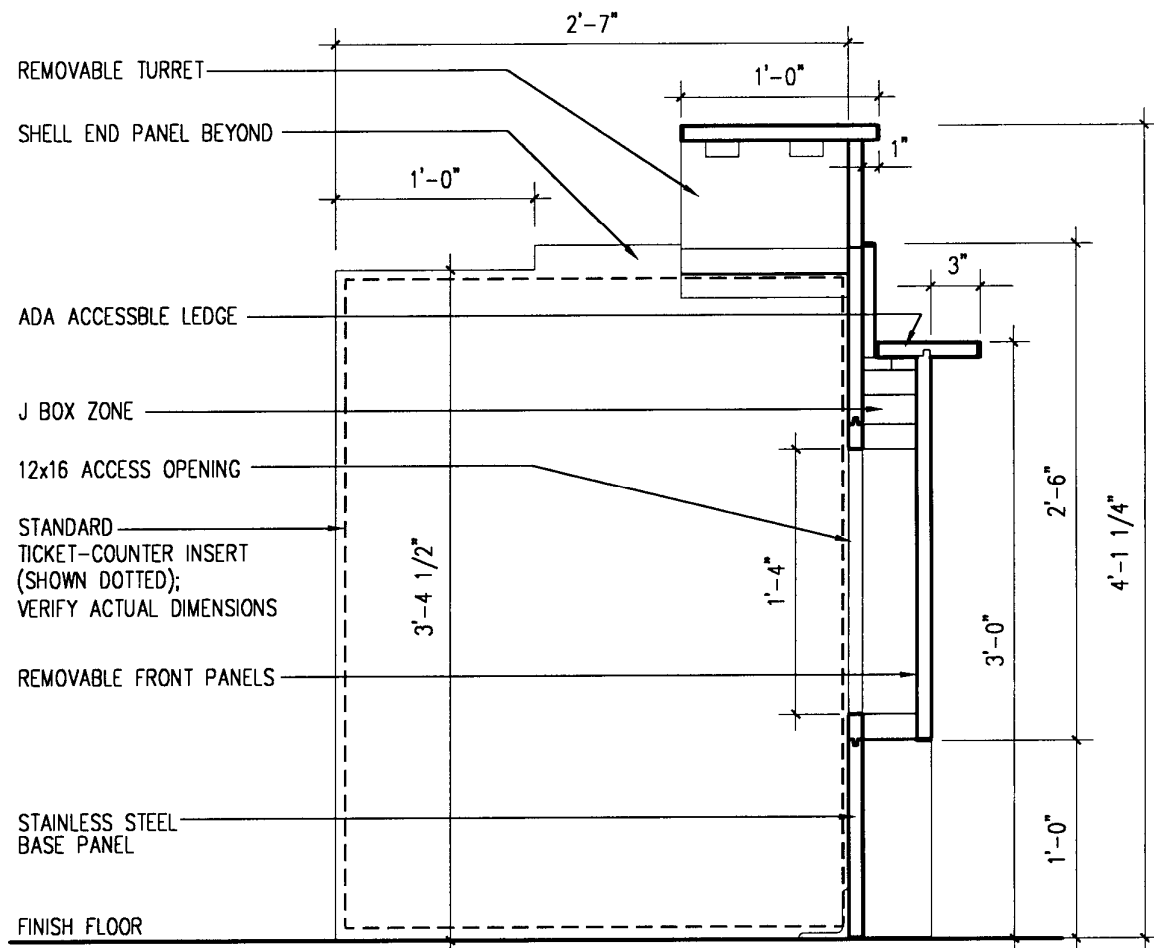
CSI Master Specification Division: 12320



## TYPICAL SINGLE TICKET COUNTER ELEVATION

NTS; For Reference Only

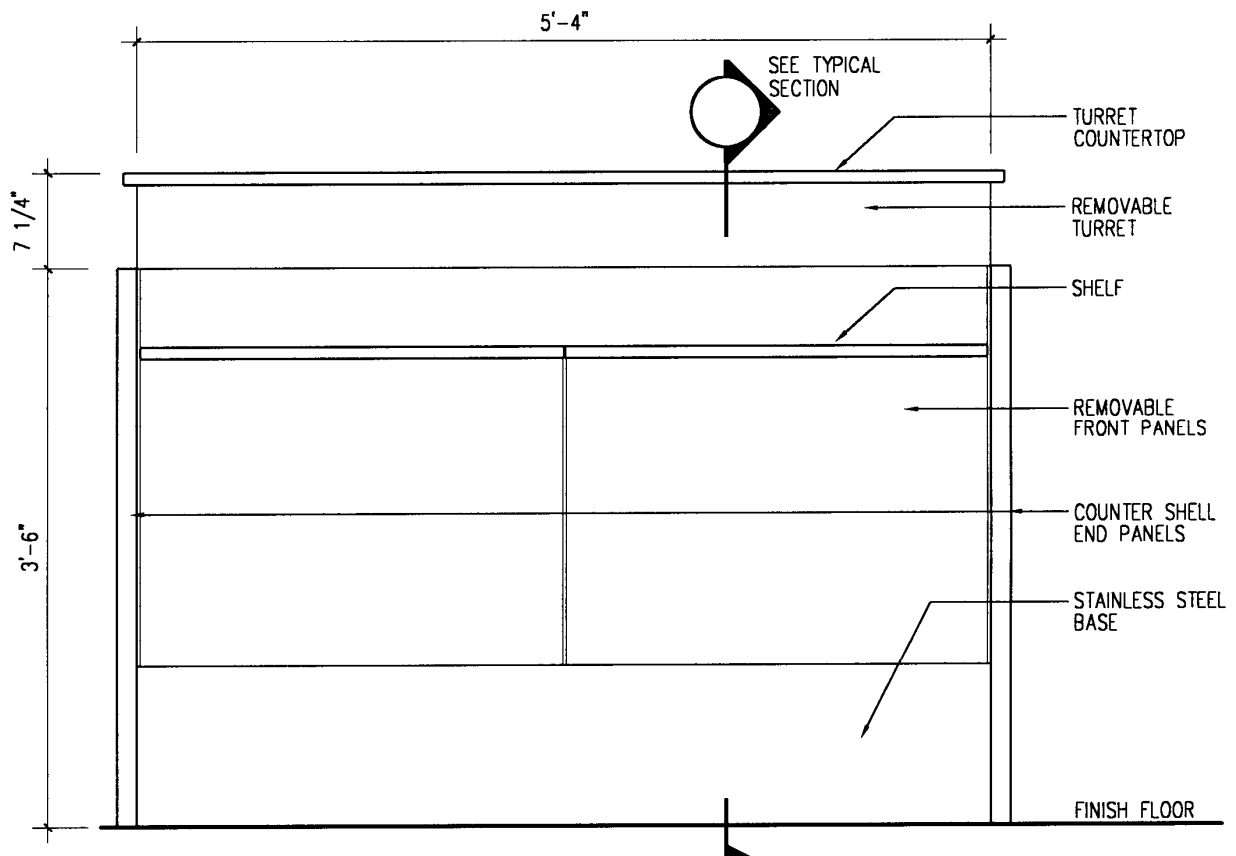
CSI Master Specification Division: 12320



## TYPICAL TICKET COUNTER SECTION

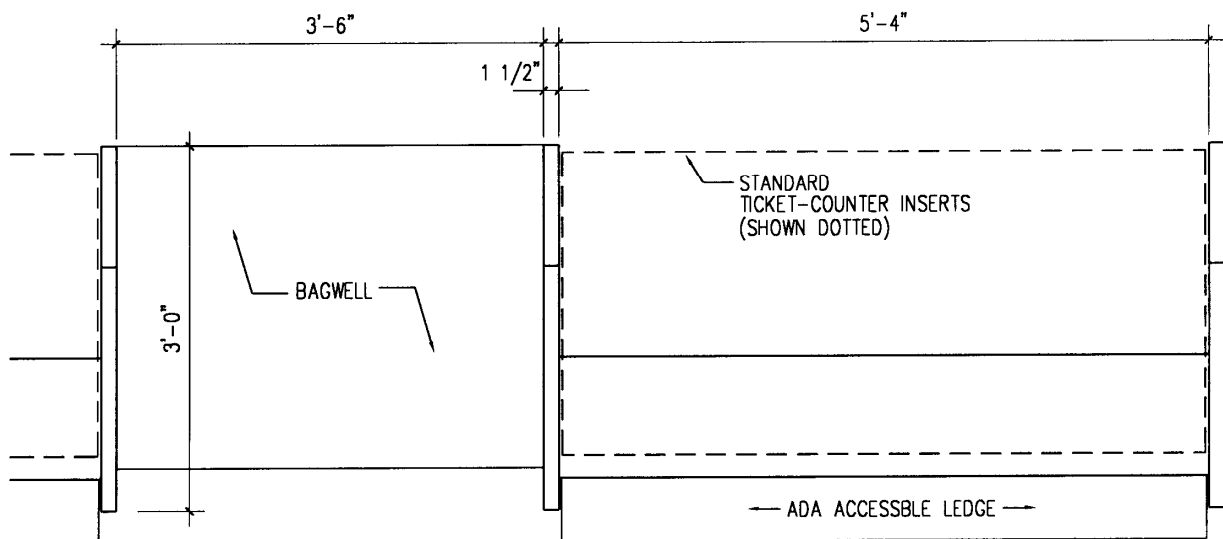
Used at Single and Double Ticket Counters  
NTS; For Reference Only

CSI Master Specification Division: 12320



## TYPICAL DOUBLE TICKET COUNTER ELEVATION

NTS; For Reference Only



## TYPICAL TICKET COUNTER PLAN

NTS; For Reference Only

*Graphics to Follow*

## **TYPICAL BACKWALL ELEVATION**

**NTS; For Reference Only**

CSI Master Specification Division: 12320

*Graphics to Follow*

## **TYPICAL BACKWALL DETAILS**

**NTS; For Reference Only**



**Section E2010 - Fixed Furnishings**

**E2010.20**  
**Window Coverings**  
1 of 1

CSI Master Specification Division: n/a

**SUMMARY**

Window coverings will not be used in any interior public spaces.

**Section E2010 - Fixed Furnishings**

**E2010.30**  
**Fixed Multiple Seating**  
1 of 1

CSI Master Specification Division: 12600

**SUMMARY**

Fixed multiple seating will not be used in any interior public areas.

CSI Master Specification Division: 12480

**SUMMARY**

This section covers design requirements, materials and installation of walk-off mats at building entrances.

Related sections:

C3020.20 Interior Floor Finishes - Terrazzo Floor Finishes

This section includes information on:

- A. Recessed Mat Frame
- B. Rubber Tire Mats
- C. Mat Installation Adhesive

**DESIGN REQUIREMENTS**

- Walk-off mats are in high traffic areas and must be durable. The mats are to be rubber tire floor mats and act as a transition from the exterior to the interior. 12" square tiles are to be set in a basket weave or checkerboard pattern.
- Mats will be recessed in frames set in terrazzo floors.
- The recessed mat frames will require corner pins or reinforcing and installation anchors.
- The floor mats will be installed from the center point so tiles at each edge will be not less than one-half tile and equal in width.
- Preference will be given to products with a high percentage of recycled content.

**MATERIALS/PRODUCTS**

- |                              |  |
|------------------------------|--|
| A. Recessed Mat Frame        |  |
| Acceptable materials:        | Size and style to fit floor mat type<br>Extruded aluminum shall be ASTM B 221, alloy 6063-T5<br>Provide edge members in single lengths |
| B. Rubber Tire Mats          |  |
| Acceptable materials:        | Units of edge grain laminated and chenille buffed rubber<br>tire mats 3/8" to 7/16" thick  |
| C. Mat Installation Adhesive |  |
| Acceptable materials:        | See Architectural Standards Section VI Technical<br>Appendix, G. <i>Environmental Criteria and Guidelines:</i><br>Adhesives.           |



**Section E2010 - Fixed Furnishings**

**E2010.50**  
**Fixed Interior Landscape Containers**  
1 of 1

CSI Master Specification Division: 12800

**SUMMARY**

Fixed interior landscaping will not be used in any interior public areas, but may be used in specially designated areas. Approval from the Port of Seattle is required for any intended use of fixed interior landscaping.

**Section E2020 - Movable Furnishings**

**E2020.10**  
**Movable Rugs and Mats**  
1 of 1

CSI Master Specification Division: 12480

**SUMMARY**

Movable rugs and mats will not be used in any interior public areas.

CSI Master Specification Division: 12600

**SUMMARY**

This section covers design requirements, materials and installation of movable multiple seating. This includes chairs, benches, and ganged seating units located in interior public areas such as hold rooms, baggage claim areas, ticket lobbies, and other major public areas.

This section includes information on:

- A. Stacking Arm Chairs
- B. Arm Chairs
- C. Ganged Seating Unit #1
- D. Ganged Seating Unit #2
- E. Ganged Seating Unit #3
- F. Ganged Seating Unit #4
- G. Ganged Seating Unit #5
- H. Ottoman
- I. Bench

**DESIGN REQUIREMENTS**

- Different seating options for interior public areas shall be provided so the public will have various waiting options.
- The ganged seating units have a similar and consistent design concept. These units are located in the public waiting areas.
- Seating with arms is to be provided in areas where people are prone to use the seats for sleeping.
- Preference will be given to products with high percentage of recycled content and/or manufactured within 500 miles of the project.

**MATERIALS/PRODUCTS**

- A. Stacking Arm Chairs  
Acceptable materials:

Perforated polymer seat, black  
Perforated polymer back, black  
Frame finish: metal with #PC00 nickel powder coat

- B. Arm Chairs  
Acceptable materials:

Tubular steel frame  
Back shell: glass filled nylon, black finish  
Seat shell: polypropylene, black finish  
Legs and arm finish: powder coat #PC00 nickel  
Base: tubular steel, powder coat #PC00 nickel  
23" W x 21" D x 32" H  
SH 18", AH 26"

CSI Master Specification Division: 12600

C. Ganged Seating Unit #1

Acceptable materials:

Upholstered ganged seating unit with 4 seats, 1 table, and arms  
Seat shell: perforated steel plate set in sectional steel  
Stretcher bar: steel  
Arm finish: aluminum, polished  
Base: aluminum  
Seat finish: upholstered vinyl, black  
Base finish: aluminum, polished  
Table finish: plastic laminate, black  
Two seat dimensions: 50 ½" W x 27 ½" D x 32 ¼" H  
SH: 17 ¼"

D. Ganged Seating Unit #2

Acceptable materials:

Upholstered ganged seating unit with 4 seats and arms  
Seat shell: perforated steel plate set in sectional steel  
Stretcher bar: steel  
Arm: aluminum  
Base: aluminum  
Seat finish: upholstered vinyl, black  
Base finish: aluminum, polished  
Two seat dimensions: 50 ½" W x 27 ½" D x 32 ¼" H  
SH: 17 ¼"

E. Ganged Seating Unit #3

Acceptable materials:

Upholstered ganged seating unit with 4 seats, 1 table, and arms  
Seat and back shell: 2.5 mm CR4 mild steel formed to shape  
Upholstery pads: preformed plywood inner support shapes  
Feet/arms: removable cast aluminum, polished  
Table tops: MDF, laminate, polyurethane bullnose edges or can be fabricated from perforated milled steel with roll edges. Composite wood and laminate adhesives shall contain no added urea formaldehyde.  
Beam and body shapes: Corrocoat metallic powder coating based on the combination of epoxy and polyester - top coating is a polyester clear coating to give a durable finish  
Seat finish: upholstered vinyl seat and back, black  
Table finish: plastic laminate, black, or perforated milled steel with rolled edges.  
Chair dimensions: 25 ½" W x 25 ½" D x 33" H  
Seat dimensions: 24" D  
Table dimensions: 23" W



- F. Ganged Seating Unit #4  
Acceptable materials:

Upholstered ganged seating unit with 4 seats and arms  
Seat and back shell: 2.5 mm CR4 mild steel formed to shape

**Section E2020 - Movable Furnishings, continued**

**E2020.20**  
**Movable Multiple Seating**  
3 of 8

CSI Master Specification Division: 12600

Upholstery pads: preformed plywood inner support shapes  
Feet/arms: Removable cast aluminum, polished  
Beam and body shapes: Corrocoat metallic powder coating based on the combination of epoxy and polyester - top coating is a polyester clear coating to give a durable finish  
Seat finish: upholstered vinyl seat and back, black  
Chair dimensions: 25 ½" W x 25 ½" D x 33" H  
Seat dimensions: 24" D

- G. Ganged Seating Unit #5  
Acceptable materials:

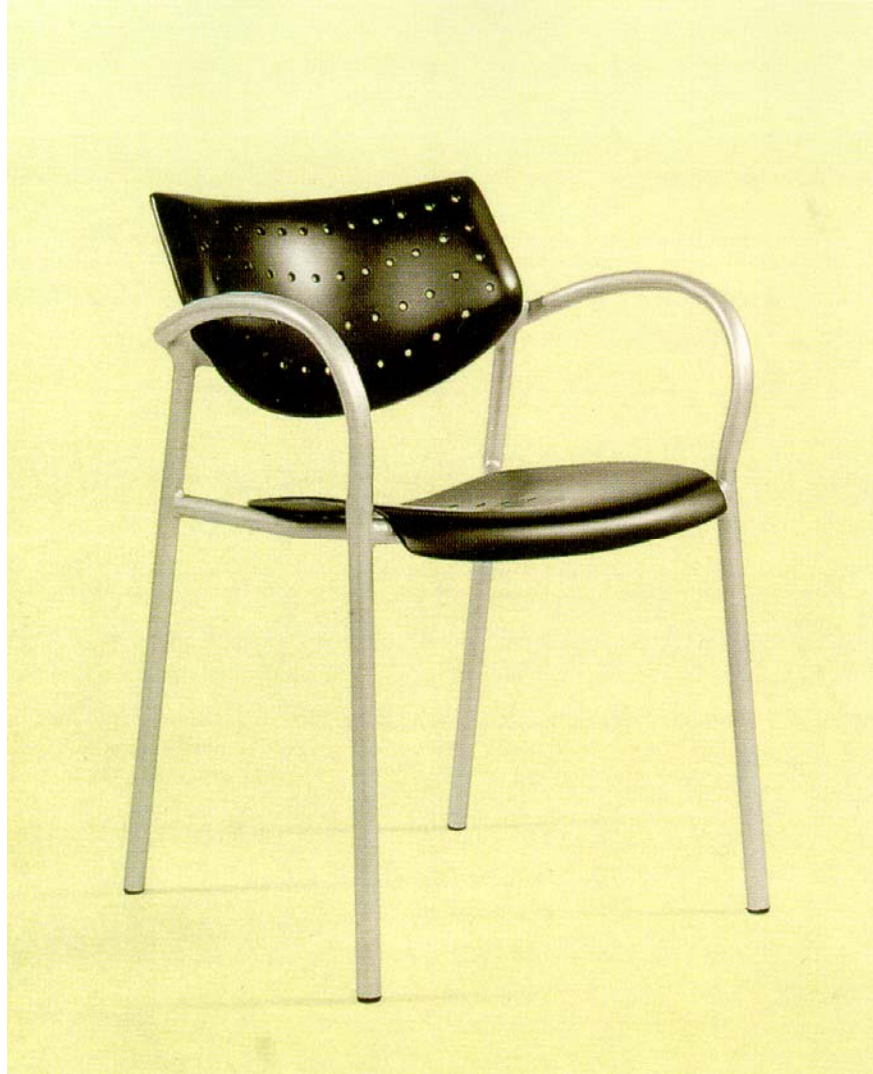
Upholstered ganged seating unit with 4 seats and arms  
Seat and back: aluminum mounted on a square section beam, which in turn is mounted on the base  
Base: extruded aluminum  
Feet: adjustable stainless steel  
Seat: upholstered pads fixed on top of aluminum  
Seat finish: upholstered vinyl seat and back, black  
Seat metal finish: powder coat finish on aluminum  
Frame: nylon powder coat, grey  
Three seat dimensions: 70" W x 27" D x 32" H

- H. Ottoman  
Acceptable materials:

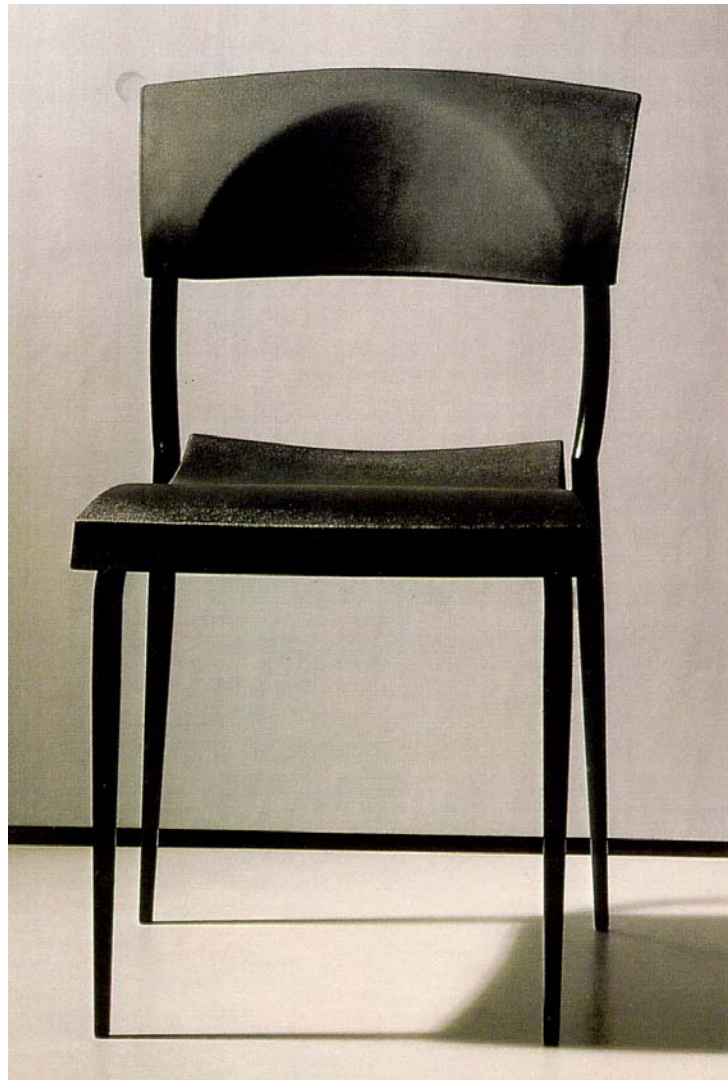
Upholstered  
Seat foam: Velva 40; thickness 3", density 2.5 to 2.6 lbs/cu. ft., compression 31 to 35 pounds  
Backrest foam: Velva 35; density 2.5 to 2.6 lbs/cu. ft., compression 31 to 35 pounds  
Framework: 5/8" veneer  
Backrest: solid wood  
Legs: sandblasted, plated steel  
Accepted manufacturer: Carnegie #6527, color #14

- I. Bench  
Acceptable materials: Seat:

Laminated fir with sandblasted, plated steel panels on each end  
Legs: 1/2" sandblasted steel plate  
Benches: ganged together unless noted otherwise



**STACKING ARM CHAIR**  
For Reference Only



**ARM CHAIR (Model shown w/out arms)**  
For Reference Only



## **GANG SEATING UNIT**

For Reference Only



## **GANGED SEATING UNIT**

For Reference Only





## **GANGED SEATING UNIT**

For Reference Only

CSI Master Specification Division: 12500

## **SUMMARY**

This section covers design requirements, materials and installation of tables in interior public areas such as holdrooms, baggage claim areas, ticket lobbies, and other major public areas.

This section includes information on:

- A. Table

## **DESIGN REQUIREMENTS**

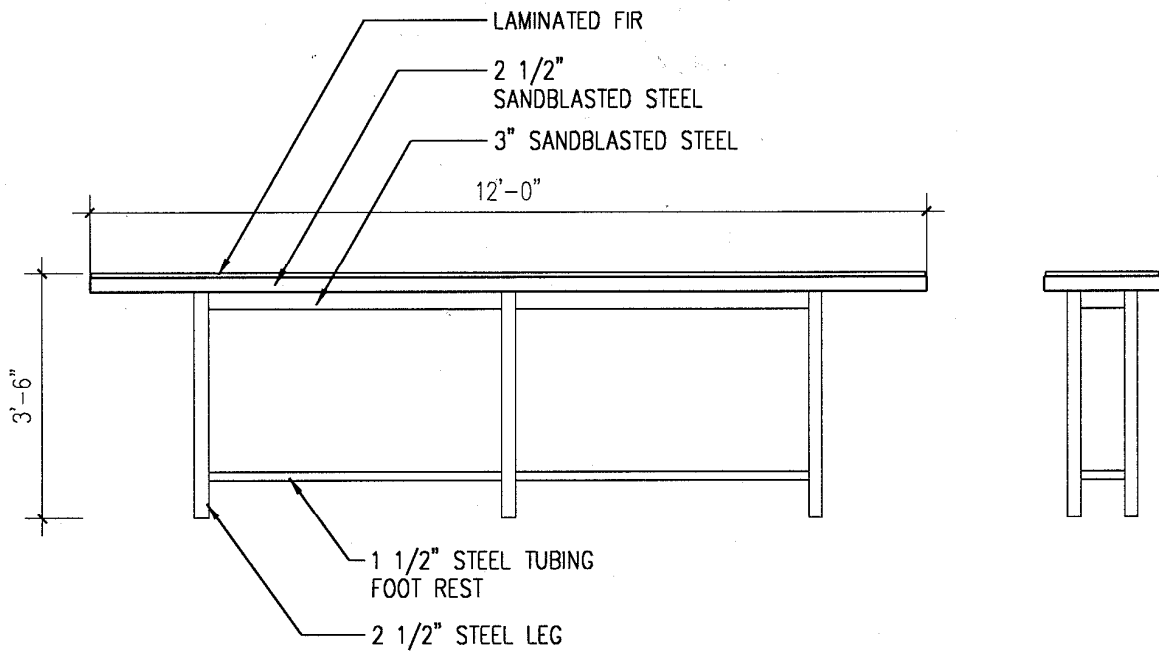
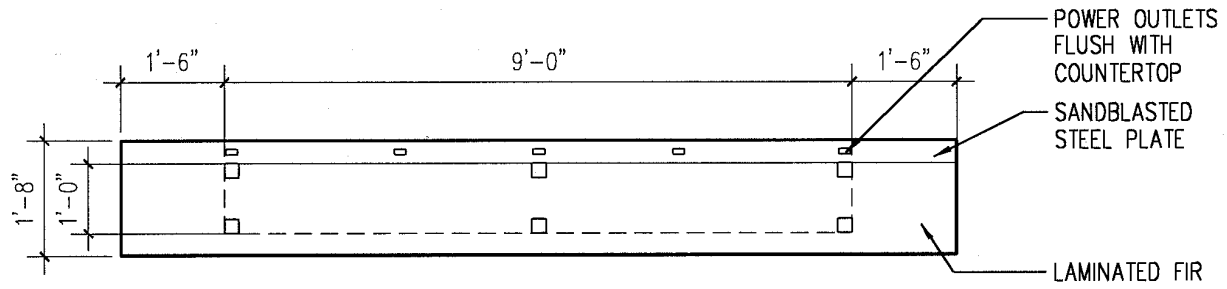
- Tables will be provided in selected public areas to provide alternative waiting options.
- See details of the custom table equipped with power sources, to be used in holdroom areas.

## **MATERIALS/PRODUCTS**

- A. Table

30" café table with solid surface top  
Column of 2" 15 gauge Steel tubing, cast iron base with  
4 nylon glides with ABS plastic adjustment knobs  
Table top finish: Richlite w/mineral oil finish  
Color: black  
Edge: square edge with slight ease  
Base: Falcon Base #1700

CSI Master Specification Division: 12500



## CUSTOM TABLE W/ POWER OUTLETS

For Reference Only



CSI Master Specification Division: 12500



CSI Master Specification Division: 12460

## SUMMARY

This section covers design requirements, materials, and installation of combined waste and recycling receptacles.

This section includes information on:

- A. Interior Waste/Recycle Receptacle
- B. Exterior Waste/Recycle Receptacle
- C. Supplemental Waste Receptacle

## DESIGN REQUIREMENTS

- Combined waste/recycle receptacles improve public access to recycling, reduce visual clutter, and minimize maintenance\*
- Multiple slots with corresponding internal liners that maintain separate streams of collected recyclables (paper, cans, and plastic) and waste
- Side-loading service doors are preferred over top-loading alternatives
- Labels that communicate recycle and waste disposal options using a combination of F&I sign shop approved text and symbols
- Distribute receptacles evenly throughout interior and exterior airport facilities, in high-traffic areas, and near point sources that generate waste

\*Stand-alone recycle and waste receptacles of similar design with distinguishing signage may be co-located as an alternative where combined waste/recycle receptacles are not practical.

## MATERIALS/PRODUCTS

### A. Interior Waste/Recycle Receptacle

Acceptable materials:	Steel or similarly durable metal (no fiberglass) Size not to exceed 41" W x 20" D x 37" H
Acceptable finishes:	Stainless Steel (satin, sandstone) Powdercoat Steel (F&I approved colors) Polyethylene lid (black w/ white graphics)
Acceptable manufacturer:	<a href="#">Forms+Surfaces</a>
Acceptable products:	Model: Transit Receptacle, stainless w/ sandstone finish Black polyethylene lid w/ white graphics

### B. Exterior Waste/Recycle Receptacle

Acceptable materials:	Steel or similarly durable metal (no fiberglass) Shall meet explosion guidelines
Acceptable finishes:	Stainless Steel (satin, sandstone) Powdercoat Steel (F&I approved colors) Steel or similarly durable metal lid (no ashtrays)
Acceptable manufacturer:	<a href="#">Forms+Surfaces</a>
Acceptable products:	Model: Dispatch litter and recycling receptacle Model: SLDIS-45-TD, Split stream for recycling/garbage Graphics: blue recycling and black garbage

CSI Master Specification Division: 12460

**C. Supplemental Waste Receptacle**

Acceptable products:

Cylindrical Stainless Steel as existing in terminal  
30" height, 18 3/8" diameter  
Frost Sanitation Accessories, Code 310  
Type 430, no. 4 brushed finish, with stainless steel top



Interior Waste\Recycle Receptacle



**Exterior Waste\Recycle Receptacle**



CSI Master Specification Division: 12460



Supplemental Waste\Recycle Receptacle

## **Section E2020 - Movable Furnishings**

**E2020.50**  
**Ash Trays**  
1 of 1

CSI Master Specification Division: 12460

### **SUMMARY**

Ash trays will be located only in designated exterior smoking areas and not within 25 feet of entry doors or ventilation air intakes..

This section includes information on:

- A. AshTrays

### **DESIGN REQUIREMENTS**

- Coordinate or match ash trays/ash urns design with that of exterior waste receptacle to achieve a consistent look and minimize visual clutter.

### **MATERIALS/PRODUCTS**

- A. Ash Trays

Acceptable manufacturer:

Landscape Forms, Inc.  
c/o Hartman Ltd.  
9004 SE 61<sup>st</sup> Street,  
Mercer Island, WA 98040  
(Telephone: 206.230.9110)

CSI Master Specification Division: 12830

## **SUMMARY**

Moveable interior landscape containers will not be used in any interior public areas, except in certain specially designated locations.

This section includes information on:

- A. Stainless Steel
- B. Aluminum

## **DESIGN REQUIREMENTS**

- Planters and other landscape containers must be in locations where they do not interfere with or block public view of directional and information signages.
- Design and finishes must be consistent with or compatible with the adjacent interior finishes.
- Use stainless steel or aluminum materials.
- Preference shall be given to products that contain a high percentage of recycled content and/or are manufactured within 500 miles of the project.

## **MATERIALS/PRODUCTS**

- A. Stainless Steel  
Acceptable finishes: No. 4, non-directional, 100 grit brushed finish
- B. Aluminum  
Acceptable finishes: Painted black

# VARIANCE REQUEST

Date: \_\_\_\_\_

## Architectural Standards

Seattle-Tacoma International Airport

Project name and number: \_\_\_\_\_

Port of Seattle Project Manager: \_\_\_\_\_

Submitted by: \_\_\_\_\_

Name: \_\_\_\_\_

Telephone #: \_\_\_\_\_

Variance material requested: \_\_\_\_\_

Proposed location: \_\_\_\_\_

Reason for request: \_\_\_\_\_

Material/product required by Architectural Standards: \_\_\_\_\_

Architectural Standards section title and number: \_\_\_\_\_

### Verify and check off each of the following:

#### Variance material/product will:

- \_\_\_\_\_ Comply with applicable laws, regulations and codes
- \_\_\_\_\_ Meet document industry standards
- \_\_\_\_\_ Consider public health, safety, and welfare issues
- \_\_\_\_\_ Comply with the STIA Design Guidelines and other design standards

#### Material or product will provide appropriate levels of:

(see Architectural Standards for further definition of the following terms)

- |                              |                    |
|------------------------------|--------------------|
| _____ Visual character       | _____ Durability   |
| _____ Maintainability        | _____ Availability |
| _____ Environmental Criteria | _____ Cost         |

Explain: \_\_\_\_\_

#### Material or product will be appropriate in regards to:

(see Architectural Standards for further definition of the following terms)

- |  |                    |
|--|--------------------|
| _____ Location                             | _____ Repair       |
| _____ Replacement                          | _____ Protection   |
| _____ Accessibility for maintenance        | _____ Installation |
| _____ Consideration of hazardous materials |                    |

Explain: \_\_\_\_\_

**NOTE:** Attach all pertinent product data (including product history of successful performance) and other back up information to support the request.

Approved/Disapproved by: \_\_\_\_\_

Date: \_\_\_\_\_

Comments: \_\_\_\_\_



# ARCHITECTURAL STANDARDS UPDATE REQUEST

Seattle-Tacoma International Airport

Port of Seattle Sponsor: \_\_\_\_\_

Date: \_\_\_\_\_

Submitted by: Name: \_\_\_\_\_

Telephone #: \_\_\_\_\_

Proposed section(s) to be updated: \_\_\_\_\_

(Include section and/or page #'s)

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Graphics/images/drawings to be updated: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_

Reason for request: \_\_\_\_\_

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Proposed update/change: (attach back up information and/or Variance Request form as necessary):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

---

## FOR FACILITIES DEPARTMENT ASSESSMENT

If revised, this change will impact the following STIA project(s):

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

This change should occur in the following airport locations:

\_\_\_\_\_  
\_\_\_\_\_  
\_\_\_\_\_

Approved/Disapproved by: \_\_\_\_\_

Date: \_\_\_\_\_

Comments: \_\_\_\_\_

\_\_\_\_\_

## C. Index of Existing (Non-Standard) Materials and Finishes by Terminal Area

For small-scale projects, it will occasionally be appropriate to reuse non-standard existing materials to match surrounding areas (verify scope with Port of Seattle Project Manager). If any of the following materials or finishes are used, they should match the existing. Therefore, a field survey may be necessary to distinguish the visual characteristics and repair of surrounding finishes. Refer to Section D - Existing Fixtures, Furnishings and Equipment Photographs.

### 1. Pedestrian Bridges to Parking (Skybridges)

Floors:	Carpet tile
Walk-off Mat:	Refer to "Materials, Means and Methods"
Ceilings:	4" linear perforated metal, refer to "Materials, Means and Methods"
Doors/Frames:	Automatic doors, refer to "Materials, Means and Methods"
Exterior:	Window wall, refer to "Materials, Means and Methods"; metal panel system; refer to "Materials, Means and Methods"
Other:	Steel trusses, match existing paint finish

### 2. Curbside - Ticketing Level

Floors:	Broom finish concrete, refer to "Materials, Means and Methods"
Ceiling:	4" linear perforated metal, refer to "Materials, Means and Methods"

### 3. Ticket Lobby

Walls:	Panel finish systems, Wood: standard veneer is anigre of veneer grade I per Architectural Woodwork Institute (AWI); 1/2" thick brushed aluminum natural finish banding on all edges except butt joints; standard color is "Pear Wood" Plastic laminate Stainless steel
Base:	Field verify existing
Floors:	Terrazzo Carpet: broadloom area rugs: custom Axminster carpeting; 80/20 wool/nylon blend; 32 ounce weight, as manufactured by US Axminster

	Walk-off mat: refer to "Materials, Means and Methods"
Ceilings:	4" linear perforated metal, refer to "Materials, Means and Methods"
Columns:	Granite enclosure with vinyl corner guards, refer to "Materials, Means and Methods"
Doors/Frames:	Automatic doors, refer to "Materials, Means and Methods"
Standard Doors:	<p>Metal doors: paint finish, no doors and frames shall be thinner than 18 gauge; security doors and frames shall be no thinner than 16 gauge, or shall be structurally reinforced at all hardware locations; when provided, glazing will comply with applicable codes and airport security requirements; finish shall be semi-gloss enamel; color shall match adjacent wall surfaces</p> <p>Plastic laminate: faced doors</p>
Exterior:	<p>Window wall</p> <p>Metal panel system</p>
Other:	<p>Bracing</p> <p>Guard rails</p>

#### **4. Curbside - Baggage Claim Level**

Floors:	Concrete
Ceilings:	Concrete
Columns:	Concrete

#### **5. Baggage Claim Lobby**

Walls:	<p>Panel finish systems</p> <p>Wood panels</p> <p>Plastic laminate panels</p> <p>Stainless steel panels</p>
Base:	Field verify existing
Floors:	<p>Terrazzo</p> <p>Carpet</p> <p>Walk-off mat</p>

Ceilings:	4" linear: perforated metal, linear baffles, perforated panels, embossed panels
Columns:	Granite enclosure with vinyl corner guards, refer to "Materials, Means and Methods"
Concrete:	Concrete, refer to "Materials, Means and Methods" Concrete with metal casement: paint finish
Doors/Frames:	Automatic doors Standard doors Metal doors and frames, paint finish: no doors and frames shall be thinner than 18 gauge; security doors and frames shall be no thinner than 16 gauge, or shall be structurally reinforced at all hardware locations; when provided, glazing will comply with applicable codes and airport security requirements; finish shall be semi-gloss enamel; color to match adjacent wall surfaces
Exterior:	Window wall
Other:	Bracing: painted steel Guard rails

## 6. Baggage Claim Halls

Walls:	Panel finish systems Wood: standard wood veneer is anigre of veneer grade I per Architectural Woodwork Institute (AWI), with 1/2" thick brushed aluminum natural finish banding on all edges, except butt joints; standard color is "Pear Wood" Plastic laminate: matte finished and shall be compatible with the existing wall panel system; trim and mechanical fasteners are dark bronze anodized aluminum; standard laminate color: Newsom Dunnick technical coating ND517 metallic polyurethane "Hammertone", satin finish, silver/blue-green color Stainless steel
Base:	Field verify existing
Floors:	Terrazzo Carpet (on baggage claim devices)
Ceilings:	4" linear perforated metal
Columns:	Granite enclosure with vinyl corner guards Concrete

Doors/Frames:	Standard doors Metal doors Plastic laminate: faced doors
Other:	Bracing: painted steel Guard rails Positive claim rails Claim devices: stainless steel

## 7. Promenade

Walls:	Panel finish system: plastic laminate
Base:	Field verify existing
Floors:	Terrazzo Carpet
Ceilings:	4" linear perforated metal
Columns:	Granite enclosure with vinyl corner guards Concrete
Exterior:	Window wall

## 8. Esplanade

Walls:	Panel finish systems Wood: standard wood veneer is anigre of veneer grade I per Architectural Woodwork Institute (AWI), with 1/2" thick brushed aluminum natural finish banding on all edges, except butt joints; standard color is "Pear Wood" Plastic laminate: plastic laminate panels used in non-leased public areas are matte finished and are compatible with the existing wall panel system; trim and mechanical fasteners are dark bronze anodized aluminum; plastic laminate panels exposed to public view shall comply with these guidelines: the use of plastic laminates to convey natural materials is not permitted; selected pattern, color and installation must be compatible with adjacent finish surfaces Stainless steel
Base:	Field verify existing
Floors:	Terrazzo Carpet: broadloom area rugs

Ceilings:	4" linear perforated metal: linear baffles; perforated panels, embossed panels
Columns:	Granite enclosure with vinyl corner guards Stainless steel enclosure
Doors/Frames:	Standard doors Metal doors: paint finish Plastic laminate: faced doors
Exterior:	Window wall Metal panel system
Other:	Guard rails

#### **9. Mezzanine Level** (non-passenger area)

#### **10. Central Hall**

The existing Central Hall will be replaced with entirely new spaces and finishes.

#### **11. Concourses A, B, C, D**

Walls:	Panel finish systems Metal Plastic laminate: Trim and mechanical fasteners are brushed aluminum; standard laminate color: Wilsonart #4621-8, "White Nebula", with aluminum edge binding Fabric wrapped Gypsum wallboard: paint finish is semi-gloss and is selected for durability, ease of maintenance and lack of noxious fumes during application; standard wall color is Preservative Paints "Rainier White" or approved equal; Sherwin Williams Promar 200 latex wall paint; color number 79-07 (Port color number P-9)
Base:	Field verify existing
Floors:	Terrazzo: thin-set epoxy Carpet: broadloom
Ceilings:	Metal: 2' x 4' perforated; 2' x 2' perforated; metal panel ceilings are nominal 24" by 48", Milgo/Bufkin pattern # 156, 47% open area, stagger pattern perforations, with bronze metallic painted finish, with 1 inch black Manville Linacoustic insulation over; finish is Sherwin Williams fast dry acrylic

product # Z99X8185; tint F78XXY13; on file at Sherwin Williams, 6<sup>th</sup> Avenue South, Seattle, WA

Acoustical: 2' x 2' tile

Gypsum wallboard: paint finish

Gate lobbies and ticket counters: sloped ceiling areas shall be gypsum board designed to match existing, including the architectural expression of the structure above; retail concessions and passenger lounges vary, verify in field

Columns:

Steel

Textured finish

Stainless steel enclosure

Metal enclosure: paint finish

Gypsum wallboard enclosure: paint finish

Doors/Frames:

Standard doors

Metal doors, paint finish: no doors and frames shall be thinner than 18 gauge; security doors and frames shall be no thinner than 16 gauge, or shall be structurally reinforced at all hardware locations; when provided, glazing will comply with applicable codes and airport security requirements; finish shall be semi-gloss enamel

Metal frames

Plastic laminate: faced doors

Exterior:

Window wall, refer to "Materials, Means and Methods"

Skylight: translucent panel system, refer to "Materials, Means and Methods"

Metal Panel System, refer to "Materials, Means and Methods"

Other:

Guard rails

## 12. North and South Satellite

Walls:

Panel finish systems

Plastic laminate panels: panels used in non-leased public areas are matte finished; trim and mechanical fasteners shall be dark bronze anodized aluminum; standard laminate color: North Satellite STS station is standard white; South Satellite escalator wall panels: Formica European Edition #1635 "Saddle Crimple"

Gypsum wallboard: paint finish is semi-gloss and is selected for durability, ease of maintenance and lack of noxious fumes during application; standard wall color is Preservative Paints "Rainier White" or approved equal in terminal areas

Wall Coverings: selected for durability, ease of maintenance and ease of obtaining replacement materials; lounges,

conference rooms, gate lobbies, etc.: Carnegie Xorel  
"Nexus" #6425, color W03/68; South Satellite Arrivals Hall:  
Carnegie Xorel "Random Stripe", color W17/36

Base:	Field verify existing
Floors:	Terrazzo Broadloom carpet Ceramic tile
Ceilings:	Metal: 4" linear perforated; refer to "Materials, Means and Methods"
Columns:	Steel Textured finish Stainless steel enclosure Metal enclosure: paint finish Plastic laminate: panel enclosure with vinyl corner guards
Doors/Frames:	Standard doors Metal doors, paint finish: no doors and frames shall be thinner than 18 gauge; security doors and frames shall be no thinner than 16 gauge, or shall be structurally reinforced at all hardware locations; when provided, glazing will comply with applicable codes and airport security requirements Plastic laminate: faced door
Exterior:	Window wall: Refer to "Materials, Means and Methods" Metal panel system: refer to "Materials, Means and Methods"
Other:	Guard rails

### **13. Satellite Transit System (STS) Stations**

Walls:	Panel finish systems Plastic laminate: Newsom Dunnick Technical Coating #ND517 metallic polyurethane "Hammertone", satin finish, silver/blue-green color
Base:	Field verify existing
Floors:	Terrazzo
Ceilings:	4" linear perforated metal, refer to "Materials, Means and Methods"
Columns:	Steel: stainless steel enclosure



Doors/Frames:	STS doors
	Metal Doors: stainless steel
	Metal Frame: stainless steel
	Glass: clear
	Standard doors
	Metal doors: paint finish
	Metal frames: metal finish

#### **14. International Arrivals, Federal Inspection Services (FIS)**

Walls	Panel finish system Plastic laminate Gypsum wallboard: paint finish Wood: standard veneer is anigre of veneer grade I per Architectural Woodwork Institute (AWI), with 1/2" thick brushed aluminum natural finish banding on all edges, except butt joints; standard color: "Pear Wood"
Base:	Field verify existing
Floors:	Terrazzo Broadloom carpet
Ceilings:	4" linear perforated metal, refer to "Materials, Means and Methods"
Columns:	Steel Plastic laminate: panel enclosure with vinyl corner guards
Doors/Frames:	Standard doors Metal doors: paint finish Metal frames
Exterior:	Window wall, refer to "Materials, Means and Methods"
Metal panel System:	Refer to "Materials, Means and Methods"
Other:	Guard rails Queue rails: stainless steel, stainless steel panel Claim devices: stainless steel, metal panel top surface

#### **15. Elevators/Escalators/Moving Walkways**

Elevators:	Refer to "Materials, Means and Methods"
Escalators:	Refer to "Materials, Means and Methods"

Moving Walkways: N/A

## 16. Aircraft Passenger Loading Bridges

Walls:	Panel finish system: plastic laminate
Floors:	Broadloom carpet
Ceilings:	Metal
Doors/Frames:	Concourse entry/exit Metal doors: paint finish Metal frames
Exterior:	Walls: paint finish Soffit: paint finish Stairs: paint finish

## 17. Casework

Ticket counters and bagwells:

Ticket counter surfaces which are exposed to public view are surfaced with plastic laminate, with the exception of baggage transfer surfaces, which are stainless steel

Counter tops/reveals: selected by Tenant, approved by the Port of Seattle; Nevamar ARP #S-6-1T textured "Black", or equal

Standard plastic laminate: Pionite #ST 606, "Taupe Suede", or Formica #917, "Tidal Sand Matte"

Backwall materials: paint, plastic laminate, metal, glass, composition epoxies and vinyl wallcoverings; carpet may be used only when part of a national corporate image program

Airline customer service counters: by Tenant

Typical casework units are plastic laminate-faced millwork with stainless steel trim

Gate podiums: by Port of Seattle and by Tenant

Typical casework units are plastic laminate-faced millwork with stainless steel trim

Maximum dimensions of podiums are 96" long by 32" deep by 50" high per station; podium surfaces which are exposed to

public view are surfaced with plastic laminate or natural materials approved by the Port of Seattle; exposed joints shall be minimized; Port of Seattle podiums shall match the design of existing podiums at gates S-11/12

Counter tops/reveals: selected by Tenant, approved by the Port of Seattle; Nevamar ARP #S-6-1T textured "Black", or equal

Standard plastic laminate: Pionite #ST 606, "Taupe Suede", or Formica #917, "Tidal Sand Matte"

Backwall materials: Paint, plastic laminate, metal, glass, wood, composition epoxies and vinyl wallcoverings; carpet may be used only when part of a national corporate image program

Gate lobby podium backwalls: maximum dimensions of podium backwalls are a length equal to the corresponding podium of 18" deep by 90" high; backwalls shall be designed to be compatible with the corresponding gate lobby podiums and to conceal all storage compartments and communications equipment; backwall graphics shall be located between 48" and 84" above the finish floor

Ticket lift podiums: by Port of Seattle and by Tenant

Typical casework units are plastic laminate-faced millwork with stainless steel trim

Curbside check-in podiums: by Tenant

Typical casework units are plastic laminate-faced millwork with stainless steel end panels and trim

Gate card readers: by Tenant

Typical card reader pedestal units are stainless steel panels and trim

Baggage claim service counters: by Port of Seattle and by Tenant

Typical casework units are plastic laminate-faced millwork with stainless steel end panels, trim, and bagwells

Color and finish are the Port of Seattle standard plastic laminate; counter height is 42"

Counter tops/reveals: selected by Tenant, approved by Port of Seattle; Nevamar ARP #S-6-1T textured "Black", or equal

Standard plastic laminate: Pionite #ST 606, "Taupe Suede", or Formica #917, "Tidal Sand Matte"

Backwall materials: paint, plastic laminate, metal, glass, wood, composition epoxies and vinyl wallcoverings; carpet may be used only when part of a national corporate image program

Baggage claim storage units:

Refer to "Materials, Means and Methods"

Ground transportation information counters: with Hospitality information counters

Ground transportation service counters (Rental Car):

Counter tops/reveals: Selected by Tenant, approved by Port of Seattle. Nevamar ARP #S-6-1T textured "Black", or equal

Standard plastic laminate: Pionite #ST 606, "Taupe Suede", or Formica #917, "Tidal Sand Matte"

Backwall materials:

Front face: paint, plastic laminate, metal, glass, composition epoxies and vinyl wall coverings; carpet may be used only when part of a national corporate image program;. Refer to STIA Signing and Graphics Guidelines for maximum dimensions of company name/logo; no extraneous signage on backwall

Back face: Nevamar #S-2-70T textured, "Contract Taupe"; everything concealed; no exposed shelving, coat hooks, etc.

Public information counters and backwalls:

Wood laminate millwork with light colored polymer countertops and stainless steel trim

Solicitor's booth: Wood laminate millwork with light grey colored plastic laminate countertops and stainless steel corner guards

Bus Kiosks: Refer to Retail Concession Tenant Design Guidelines and STIA Signing and Graphics Guidelines for additional information

Miscellaneous partitions/railings:

Refer to "Materials, Means and Methods"

Flight information display equipment enclosures:

Refer to STIA Signing and Graphics Guidelines for existing size and hardware requirements

Standard flight information display enclosures: suspended enclosure: Wilsonart #1595-6, "Black" or Pionite #ST 606, "Taupe Suede", or Formica #917, "Tidal Sand Matte"

Free standing enclosure: for use only in tenant leased areas;  
design by the Tenant, approved by the Port of Seattle

Ticket/baggage: claim lobby pedestal refer to Port of Seattle  
shop drawings; stainless steel base, Pionite "Black" #SE101  
AB "Suede" enclosure

Bridge level enclosure: for use only in skybridges serving  
satellites; designed by Tenant, approved by Port of Seattle

Gate lobby and ticket counter flight information display  
enclosures: flight information display enclosures in leased  
areas shall be designed by the Tenant, and approved by the  
Port of Seattle; design of gate lobby flight information  
display enclosures shall be closely coordinated with the  
corresponding podiums and backwalls

Baggage information display equipment enclosures:  
Incorporated within baggage claim device identification signage.

Hospitality information equipment enclosures:  
Typical units are plastic laminate-faced millwork with stainless  
steel trim

Foreign currency exchange counters:  
Refer to Retail Concession Tenant Design Guidelines and STIA  
Signing and Graphics Guidelines for additional information

Travelers aid counter:  
Refer to Retail Concession Tenant Design Guidelines and STIA  
Signing and Graphics Guidelines for additional information  
Plastic laminate-faced millwork with stainless steel trim, includes  
back counter

Advertising: Refer to Retail Concession Tenant Design Guidelines and STIA  
Signing and Graphics Guidelines for additional information

## **18. Fixtures, Furnishings, and Equipment**

Gate lobby multiple seating units: varies, Tenant or Port of Seattle provided  
Gate lobby table units: varies, Tenant or Port of Seattle provided  
Public area multiple seating units: Port of Seattle provided  
Public area benches: Port of Seattle provided  
Public area table units: Port of Seattle provided  
Trash receptacles: refer to "Materials, Means and Methods"  
Recycling units: Port of Seattle provided  
Plant containers: Port of Seattle provided

Public area carpets/area rugs: Port of Seattle provided  
Cable television monitors: vendor supplied

## **19. Specialty Items**

Telephone wall-mounted enclosures:

Standard wall mounted telephone enclosure for all areas of the main terminal, satellites, and parking garage, except for Concourses B, C, and D shall be Adco #20L or 21L depending on face direction; standard wall mounted telephone enclosure for Concourses B, C, and D shall be as above when located off the public corridor, and Adco #90L when located on the public corridor; standard pedestal mounted telephone enclosure shall be Adco #90L; when provided, ticket lobby courtesy phones shall be incorporated into the existing curbside conveyor system enclosures (dog houses), and shall include wall mounted telephones, task lighting and integral writing surfaces; exposed surfaces shall be eased and covered with plastic laminate, color to match adjacent surfaces; refer to Port of Seattle shop drawings for details

Telephone freestanding enclosures:

See above

Telephone sit-down enclosures:

See above

Unmanned passenger services:

Refer to Retail Concession Tenant Design Guidelines and STIA Signing and Graphics Guidelines for additional information

Vending machines: vendor supplied

Newspapers: vendor supplied

Shoe shine: vendor supplied

Change machines: vendor supplied

Phone card machines: vendor supplied

Baggage cart rental: vendor supplied

Baggage lockers: vendor supplied

Internet kiosks: vendor supplied

Cash machines: vendor supplied

**D. Existing Fixtures, Furnishings and Equipment Photographs**



Ticket Counters and Bagwell



Ticket Counters and Bagwell





Airline Customer Service Counter



Gate Podium



Ticket Lift Podium



Curbside Check-In Podium





Gate Card Reader



Ticket Lift Podium and Gate Card Reader



Baggage Claim Service Counter





## Ground Transportation Service Counters





Public Information Counters and Backwall



Public Information Counter



Solicitor's Booth





Flight Information Display Equipment Enclosure



Baggage Information Display Equipment Enclosure



Ground Transportation and Hospitality Information  
Equipment Enclosure





Travelers Aid Counter



Advertising





Public Area Multiple Seating



Trash Receptacle



Recycling Unit





Plant Container



Telephone Wall-Mounted Enclosures



Telephone Free-Standing Enclosure





Cash Machines - Vendor Supplied



Foreign Currency Exchange Counters



## E. CSI/CSC Unifomat for Building Construction

### CSI/CSC UniFormat for Building Construction Levels 1 - 4

#### A SUBSTRUCTURE

##### A10 FOUNDATIONS

##### A1010 Standard Foundations

Wall Foundations  
Column Foundations

##### A1020 Special Foundations

Driven Piles 02360  
Bored/Augured Piles 02370  
Shoring and Underpinning 02150  
Dewatering 02140  
Raft Foundations  
Cofferdams 02170

##### A1030 Other Special Foundations

**Slabs on Grade**  
Standard Slabs on Grade  
Structural Slabs on Grade  
Inclined Slabs on Grade  
Trenches  
Pits and Bases  
Subdrainage Systems 02710  
Perimeter Insulation 07210  
Other Slabs on Grade

##### A20 BASEMENT CONSTRUCTION

##### A2010 Basement Excavation

Excavation for Basement 02220  
Backfill and Compaction 02220  
Excavation Support Systems 02160  
Other Basement Excavation

##### A2020 Basement Walls

Basement Wall Construction  
Basement Wall Vertical  
Waterproofing 07100  
Basement Wall Dampproofing 07150  
Basement Wall Vapor Retarders  
and Insulation  
Basement Wall Interior Skin  
Other Basement Walls

#### B SHELL

##### B10 SUPERSTRUCTURE

##### B1010 Floor Construction

Floor Structural Frame  
Structural Interior Walls  
Supporting Floors  
Floor Decks, Slabs, and Sheathing  
Balcony Floor Construction  
Mezzanine Construction  
Ramps  
Floor Construction Vapor Retarders,  
Air Barriers, and Insulation  
Floor Construction Fireproofing 07250  
Floor Construction Firestopping 07270  
Other Floor Construction

##### B1020 Roof Construction

Roof Structural Frame  
Structural Interior Walls  
Supporting Roofs  
Roof Decks, Slabs, and Sheathing  
Canopies  
Roof Construction Vapor Retarders,  
Air Barriers, and Insulation  
Roof Construction Fireproofing 07250  
Roof Construction Firestopping 07270  
Other Roof Construction

##### B20 EXTERIOR CLOSURE

##### B2010 Exterior Walls

Exterior Wall Exterior Skin  
Exterior Wall Construction  
Exterior Wall Vapor Retarders,  
Air Barriers, and Insulation  
Exterior Wall Interior Skin  
Exterior Wall Assemblies 07480  
Parapets  
Exterior Louvers, Grilles,  
and Screens 10200  
Exterior Protection Devices  
for Openings 10700  
Exterior Balcony Walls and Railings  
Exterior Soffits  
Other Exterior Walls

##### B2020 Exterior Windows

Exterior Standard Windows  
Storefronts 08400  
Glazed Curtain Walls 08900  
Exterior Special Windows 08650

##### B2030 Exterior Doors

Exterior Entrance Doors 08400  
Exterior Utility Doors  
Large Exterior Special Doors 08300  
Special Use Exterior Doors 08300  
Exterior Gates  
Other Exterior Doors

##### B30 ROOFING

##### B3010 Roof Coverings

Deck Vapor Retarders and Insulation  
Shingles and Roofing Tiles 07300  
Manufactured Roofing 07400  
Membrane Roofing 07500  
Traffic Coatings 07570  
Horizontal Waterproofing 07100  
Sheet Metal Roofing 07610  
Flashing and Sheet Metal 07600  
Roof Specialties and Accessories 07700  
Manufactured Exterior Specialties 10340

##### B3020 Roof Openings

Skylights 07800  
Other Roofing Openings

CSI/CSC UniFormat

## C INTERIORS

### C10 INTERIOR CONSTRUCTION

#### C1010 Interior Partitions

Interior Fixed Partitions	
Interior Demountable Partitions	10615
Interior Operable Partitions	10650
Interior Balustrades and Screens	
Interior Windows	
Interior Glazed Partitions and Storefront	
Interior Partition Firestopping	07270
Other Interior Partitions	

#### C1020 Interior Doors

Interior Swinging Doors	
Interior Entrance Doors	08400
Interior Fire Rated Doors	
Interior Sliding and Folding Doors	
Interior Large Doors	
Interior Special Use Doors	08300
Interior Gates	
Other Interior Doors	

#### C1030 Interior Specialties

Division 10

Visual Display Boards	10100
Compartments and Cubicles	10150
Interior Louvers and Vents	10200
Service Wall Systems	10250
Wall and Corner Guards	10260
Fireplaces and Stoves	10300
Interior Identifying Devices	10400
Pedestrian Control Devices	10450
Lockers	10500
Postal Specialties	10550
Storage Shelving	10670
Telephone Specialties	10750
Toilet and Bath Accessories	10800
Scales	10880
Wardrobe and Closet Specialties	10900
Other Interior Specialties	

### C20 STAIRWAYS

#### C2010 Stair Construction

Cast-in-place Stair Construction	03300
Precast Concrete Stair Construction	03400
Metal Stair Construction	Division 5
Wood Stair Construction	06430
Fire Escapes	
Other Stair Construction	

#### C2020 Stair Finishes

Tile Stair Finishes	09300
Terrazzo Stair Finishes	09400
Stone Stair Finishes	09600
Unit Masonry Stair Finishes	09630
Resilient Stair Finishes	09650
Carpet Stair Finishes	09680
Special Flooring Stair Finishes	09700
Stair Treatment	09780
Stair Railings	
Stair Soffits	
Stair Construction Special Coatings	09800
Stair Painting	09900

### C30 INTERIOR FINISHES

#### C3010 Interior Wall Finishes

Concrete Wall Finishes	03350
Wood Wall Paneling	Division 6
Lath and Plaster Wall Finishes	09200
Gypsum Board Wall Finishes	09250
Tile Wall Finishes	09300
Terrazzo Wall Finishes	09400
Stone Facing Wall Finishes	09450
Acoustical Wall Treatment	09520
Special Wall Finishes	09540
Wall Carpet	09695
Special Interior Wall Coatings	09800
Interior Wall Painting	09920
Wall Coverings	09950

#### C3020 Interior Floor Finishes

Concrete Floor Finishes	03350
Tile Floor Finishes	09300
Terrazzo Floor Finishes	09400
Wood Flooring	09550
Stone Flooring	09600
Unit Masonry Flooring	09630
Resilient Flooring	09650
Carpet Flooring	09680
Special Flooring	09700
Access Flooring	10270
Floor Treatment	09780
Floor Painting	09900

#### C3030 Interior Ceiling Finishes

Concrete Ceiling Finishes	03350
Wood Ceiling Paneling	Division 6
Lath and Plaster Ceiling Finishes	09200
Gypsum Board Ceiling Finishes	09250
Acoustical Ceiling Treatment	09500
Special Ceiling Surfaces	09545
Special Ceiling Coatings	09800
Interior Ceiling Painting	09920

CSI/CSC Uniformat

## D SERVICES

<b>D10</b>	<b>CONVEYING SYSTEMS</b>	Division 14	
<b>D1010</b>	<b>Vertical Transportation Systems</b>		
	Dumbwaiters	14100	
	Elevators	14200	
	Escalators	14310	
	Lifts	14400	
<b>D1020</b>	<b>Other Transportation Systems</b>		
	Moving Walks	14320	
	Aircraft Passenger Loading Systems	14950	
<b>D1030</b>	<b>Other Conveying Systems</b>		
	Material Handling Systems	14500	
	Hoists and Cranes	14800	
	Turntables	14700	
	Scaffolding	14800	
<b>D20</b>	<b>PLUMBING SYSTEMS</b>	15400	
<b>D2010</b>	<b>Plumbing Fixtures</b>	15440	
	Water Closets		
	Urinals		
	Lavatories		
	Sinks		
	Showers		
	Bathtubs		
	Basins		
	Drinking Fountains/Coolers		
	Other Plumbing Fixtures		
<b>D2020</b>	<b>Domestic Water Distribution</b>		
	Water Supply Piping Systems	15410	
	Water Supply Equipment	15450	
	Water Supply Insulation	15250	
<b>D2030</b>	<b>Sanitary Waste Systems</b>		
	Waste and Vent Piping Systems	15410	
	Waste Piping Specialties	15430	
	Waste Piping Equipment	15450	
	Waste Piping Insulation	15250	
<b>D2040</b>	<b>Rain Water Drainage Systems</b>		
	Rain Water Drainage Piping Systems	15410	
	Rain Water Drainage Specialties	15430	
	Rain Water Drainage Insulation	15250	
<b>D2050</b>	<b>Special Plumbing Systems</b>	15480	
	Compressed Air Systems		
	Deionized Water Systems		
	Distilled Water Systems		
	Fuel Oil Systems		
	Gasoline Dispensing Systems		
	Helium Gas Systems		
	Liquefied Petroleum Gas Systems		
	Lubricating Oil Systems		
	Natural Gas Systems		
	Nitrous Gas Systems		
	Oxygen Gas Systems		
	Reverse Osmosis Systems		
	Vacuum Systems		
	Acid Waste Systems		
	Pool and Fountain Equipment and Piping	15475	
<b>D30</b>	<b>HEATING, VENTILATING, AND AIR CONDITIONING (HVAC) SYSTEMS</b>		
<b>D3010</b>	<b>Fuel Supply Systems</b>		
	Oil Supply Systems	15480	
	Gas Supply Systems	15480	
	Coal Supply Systems	15590	
	Other Fuel Supply Systems		
<b>D3020</b>	<b>Heat Generation Systems</b>	15550	
	Steam Boilers	15555	
	Hot Water Boilers	15555	
	Furnaces	15610	
	Fuel-Fired Heaters	15620	
	Auxiliary Equipment		
	Other Heat Generation Systems		
<b>D3030</b>	<b>Heat Rejection Systems</b>		
	Absorption Water Chillers	15680	
	Centrifugal Water Chillers	15680	
	Reciprocating Water Chillers	15680	
	Rotary-Screw Water Chillers	15680	
	Cooling Towers and Liquid Coolers		
	Refrigerant Compressors and Condensers		
	Heat Pumps	15770	
	Other Heat Rejection Systems		
<b>D3040</b>	<b>Heat Distribution Systems</b>		
	Air Distribution Systems		
	Steam Distribution Systems		
	Hydronic Distribution Systems		
	Special Exhaust Systems		
	Other Heat Distribution Systems		
<b>D3050</b>	<b>Heat Transfer</b>	15750	
	Heat Exchangers	15755	
	Package Terminal Air Conditioning Systems (PTAC)	15780	
	Air Coils	15790	
	Humidifiers	15810	
	Dehumidifiers	15820	
	Terminal Heat Transfer Units	15830	
	Energy Recovery Units	15845	
	Other Heat Transfer Units		
<b>D3060</b>	<b>HVAC Controls and Instrumentation</b>	15950	
	Energy Management and Conservation Systems	15960	
	HVAC Control Systems	15970	
	HVAC Sequence of Operation	15985	
	Gas Purging Systems		
	Other HVAC Controls and Instrumentation		
<b>D3070</b>	<b>Special HVAC Systems and Equipment</b>		
	Solar Energy Collection, Conversion, and Storage	13600	
<b>D3080</b>	<b>HVAC Systems Testing, Adjusting, and Balancing</b>		
	Mechanical Systems Testing, Adjusting, and Balancing	15991	
	Piping Systems Testing, Adjusting, and Balancing	15992	
	Air Systems Testing, Adjusting, and Balancing	15993	

CSI/CSC UniFormat

<b>D40</b>	<b>FIRE PROTECTION SYSTEMS</b>	
<b>D4010</b>	<b>Fire Protection Sprinkler Systems</b>	
	Wet Pipe Fire Sprinkler Systems	15330
	Dry Pipe Fire Sprinkler Systems	15335
	Pre-Action Fire Sprinkler Systems	15340
	Combination Dry Pipe and Pre-Action Fire Sprinkler Systems	15345
	Deluge Fire Sprinkler Systems	15350
<b>D4020</b>	<b>Standpipe and Hose Systems</b>	15375
	Fire Protection Standpipe	
	Fire Protection Valves, Hoses, and Cabinets	
<b>D4030</b>	<b>Fire Protection Specialties</b>	10520
	Fire Extinguishers, Cabinets, and Accessories	10522
	Fire Blankets and Cabinets	10526
	Wheeled Fire Extinguisher Units	10528
<b>D4040</b>	<b>Special Fire Protection Systems</b>	
	Foam Extinguishing Systems	15355
	Carbon Dioxide Extinguishing Systems	15360
	Halogen Agent Extinguishing Systems	15365
	Dry Chemical Extinguishing Systems	15370
<b>D50</b>	<b>ELECTRICAL SYSTEMS</b>	
<b>D5010</b>	<b>Electrical Service and Distribution</b>	
	Main Electrical Transformers	
	Secondary Electrical Transformers	
	Main Electrical Switchboards	
	Interior Electrical Distribution Transformers	
	Electrical Branch Circuit Panelboards	
	Enclosed Electrical Circuit Breakers	
	Motor Control Centers	
<b>D5020</b>	<b>Lighting and Branch Wiring</b>	
	Electrical Branch Wiring	
	Interior Lighting	16500
<b>D5030</b>	<b>Communication and Security Systems</b>	16700
	Alarm and Detection Systems	16720
	Clock and Programs Systems	16730
	Voice and Data Systems	16740
	Public Address and Music Systems	16770
	Television Systems	16780
	Other Communication and Security Systems	
<b>D5040</b>	<b>Special Electrical Systems</b>	16600
	Uninterruptible Power Supply Systems	16610
	Packaged Engine Generator Systems	16620
	Battery Power Systems	16630
	Cathodic Protection	16640
	Electromagnetic Shielding Systems	16650
	Lightning Protection Systems	16670
	Unit Power Conditioners	16680
<b>D5050</b>	<b>Electrical Controls and Instrumentation</b>	16900
	Electrical Systems Controls	16910
	Lighting Control Systems	16915
	Electrical Instrumentation	16940

CSI/CSC Uniformat

<b>D5060</b>	<b>Electrical Testing</b>	16950
	Electrical Systems Testing	16960

## E EQUIPMENT AND FURNISHINGS

<b>E10</b>	<b>EQUIPMENT</b>	Division 11
<b>E1010</b>	<b>Commercial Equipment</b>	
	Security and Vault Equipment	11020
	Teller and Service Equipment	11030
	Registration Equipment	11080
	Checkroom Equipment	11090
	Mercantile Equipment	11100
	Commercial Laundry and Dry Cleaning Equipment	11110
	Vending Equipment	11120
	Office Equipment	11680
<b>E1020</b>	<b>Institutional Equipment</b>	
	Ecclesiastical Equipment	11040
	Library Equipment	11050
	Theater and Stage Equipment	11060
	Instrumental Equipment	11070
	Audio-Visual Equipment	11130
	Detention Equipment	11190
	Laboratory Equipment	11600
	Medical Equipment	11700
	Mortuary Equipment	11780
<b>E1030</b>	<b>Vehicular Equipment</b>	
	Vehicular Service Equipment	11140
	Parking Control Equipment	11150
	Loading Dock Equipment	11160
<b>E1040</b>	<b>Other Equipment</b>	
	Maintenance Equipment	11010
	Solid Waste Handling Equipment	11170
	Food Service Equipment	11400
	Residential Equipment	11450
	Unit Kitchens	11460
	Darkroom Equipment	11470
	Athletic, Recreational, and Therapeutic Equipment	11480
	Planetarium Equipment	11650
	Observatory Equipment	11660
	Agricultural Equipment	11870
<b>E20</b>	<b>FURNISHINGS</b>	Division 12
<b>E2010</b>	<b>Fixed Furnishings</b>	
	Fixed Artwork	12100
	Fixed Casework	06410, 12300
	Window Treatment	12500
	Fixed Floor Grilles and Mats	12670
	Fixed Multiple Seating	12700
	Fixed Interior Landscaping	12800
<b>E2020</b>	<b>Movable Furnishings</b>	
	Movable Artwork	12100
	Furniture and Accessories	12600
	Movable Rugs and Mats	12670
	Movable Multiple Seating	12700
	Movable Interior Landscaping	12800

## F OTHER BUILDING CONSTRUCTION

<b>F10</b>	<b>SPECIAL CONSTRUCTION</b>	Division 13
<b>F1010</b>	<b>Special Structures</b>	
	Air Supported Structures	13010
	Pre-Engineered Structures	13120
	Other Special Structures	
<b>F1020</b>	<b>Integrated Construction</b>	
	Integrated Assemblies	13020
	Special Purposed Rooms	13030
	Other Integrated Construction	
<b>F1030</b>	<b>Special Construction Systems</b>	
	Sound, Vibration, and Seismic Construction	13080
	Radiation Protection	13090
	Special Security Systems	13950
	Other Special Construction Systems	
<b>F1040</b>	<b>Special Facilities</b>	
	Aquatic Facilities	13150
	Ice Rinks	13175
	Site Constructed Incinerators	13180
	Kennels and Animal Shelters	13185
	Liquid and Gas Storage Tanks	13200
	Other Special Facilities	
<b>F1050</b>	<b>Special Controls and Instrumentation</b>	
	Recording Instrumentation	13500
	Building Automation Systems	13800
	Fire Suppression and Supervisory Systems	13900
	Other Special Controls and Instrumentation	
<b>F20</b>	<b>SELECTIVE DEMOLITION</b>	02070
<b>F2010</b>	<b>Building Elements Demolition</b>	02070
	Minor Demolition for Remodeling	
	Selective Structural Demolition	
<b>F2020</b>	<b>Hazardous Components Abatement</b>	02080

## G BUILDING SITEWORK

<b>G10</b>	<b>SITE PREPARATION</b>	02100
<b>G1010</b>	<b>Subsurface Investigation</b>	02010
	Standard Penetration Tests	02012
	Seismic Investigation	02016
<b>G1020</b>	<b>Site Clearing</b>	
	Sod Stripping	02215
	Clearing and Grubbing	02110
	Shrub and Tree Removal	02115
<b>G1030</b>	<b>Site Demolition and Relocations</b>	02050
	Building Demolition	02060
	Site Elements Demolition	
	Structure Relocation	02120
	Utility Relocation	

<b>G1040</b>	<b>Site Earthwork</b>	02200
	Grading	02210
	Excavating, Backfilling, and Compacting	02220
	Soil Stabilization	02240
	Slope Protection and Erosion Control	02270
	Earth Dams	02290
<b>G1050</b>	<b>Hazardous Waste Remediation</b>	
<b>G20</b>	<b>SITE IMPROVEMENTS</b>	
<b>G2010</b>	<b>Roadways</b>	
	Roadway Base Courses	02230
	Flexible Roadway Pavement	
	Roadway Unit Pavers	02515
	Rigid Roadway Paving	
	Roadway Curb and Gutter	
	Roadway Appurtenances	02840
<b>G2020</b>	<b>Parking Lots</b>	
	Parking Lot Base Courses	02230
	Flexible Parking Lot Pavement	
	Parking Lot Unit Pavers	02515
	Rigid Parking Lot Paving	
	Parking Lot Curb and Gutter	
	Parking Lot Appurtenances	02840
<b>G2030</b>	<b>Pedestrian Paving</b>	
	Pedestrian Paving Base Courses	02230
	Flexible Pedestrian Pavement	
	Pedestrian Unit Pavers	02515
	Rigid Pedestrian Paving	
	Exterior Steps	
<b>G2040</b>	<b>Site Development</b>	02800
	Fountains	02820
	Fences and Gates	02830
	Recreational and Sports Facilities	
	Site and Street Furnishings	02870
	Exterior Signs	10430
	Footbridges and Underpasses	
	Flagpoles	10350
	Covers and Shelters	10530
<b>G2050</b>	<b>Landscaping</b>	02900
	Irrigation Systems	02810
	Shrub and Tree Transplanting	02910
	Soil Preparation	02920
	Lawns and Grasses	02930
	Trees, Plants, and Ground Covers	02950
	Landscape Maintenance	02970

CSI/CSC UniFormat

## **F. Abbreviations and Definitions**

### **Abbreviations**

ADA	Americans with Disabilities Act
A.F.F.	Above Finished Floor
Alum	Aluminum
ASTM	American Society of Testing Materials
ATM	Automated Teller Machine
AWI	Architectural Woodwork Institute
BIDS	Baggage Information Display Systems
CSI	Construction Specification Institute
CRI	Carpet and Rug Institute
C-O-C	Chain of Custody
DRC	Design Review Committee
EGD	Environmental Graphic Design
FAA	Federal Aviation Administration
FF	Finished Floor
FIDS	Flight Information Display Systems
FIS	Federal Inspection Services
F.R.	Fire-Rated
FSC	Forest Stewardship Council
GFRG	Glass Fiber Reinforced Gypsum
GWB	Gypsum Wallboard
HVAC	Heating, Ventilation, and Air Conditioning
NFPA	National Fire Protection Association
NTS	Not To Scale
POS	Port of Seattle
PVC	Polyvinyl Chloride
RAC	Regulations for Airport Construction
SCAQMD	South Coast Air Quality Management District

### **Abbreviations, continued**

SMACNA	Sheet Metal and Air Conditioning Contractors National Association
SS	Stainless Steel
ST	Steel
STIA	Seattle-Tacoma International Airport
STC	Sound Transmission Class
STS	Satellite Transit System
TGIC	Tri-Glycidil-Iso-Cyanurate
TYP	typical
UL	Underwriter's Laboratories
VOC	Volatile Organic Compound
W/	with

### **Definitions**

Positive claim rail	Railing barrier surrounding baggage claim area and devices for purpose of positively matching claimed baggage to owner
Sterile corridor	A secure corridor or pathway for purpose of providing circulation for inbound international passengers to access Federal Inspection Services
TGIC	Resin additive used in powder coating to provide UV stability

## **G. Environmental Criteria and Guidelines**

### **Adhesives and sealants**

All adhesives and sealants applied on site and within the interior spaces of the Airport will not exceed the VOC (volatile organic compounds) limits as set forth in the current guidelines of the South Coast Air Quality Management District (SCAQMD) Rule #1168. See their website: <http://www.aqmd.gov/rules/index.html>

Adhesives containing urea-formaldehyde are prohibited, whether shop-applied or applied on site. This includes adhesives for laminates and veneers as part of any assembly.

### **Carpet**

CRI (Carpet and Rug Institute) Green Label Plus certification (or its equivalent) is required for all new carpet and carpet tiles installed on site.

CRI Green Label certification is required for all carpet pad installed on site.

Preference will be given to materials with the highest percentage of recycled content. The minimum acceptable percentage is 45%.

Installers are required to demonstrate provisions for the recycling of used carpet that ensure the carpet and pad will not be landfilled or incinerated.

### **Composite Wood**

Use of composite wood (MDF, particleboard, plywood, agrifiber board, etc.) inside the Airport that is made with glues or resins that contain added urea-formaldehyde is prohibited. This prohibition includes any part of any assembly fabricated on or off site.

Preference will be given to the use of wood products made from FSC (Forest Stewardship Council) certified wood.

### **Paints**

All paints applied on site within those areas of the Airport occupied by employees and the public shall not exceed the VOC (volatile organic compounds) limits stipulated in the most current version of South Coast Air Quality Management District (SCAQMD) Rule #1113. See their website: <http://www.aqmd.gov/rules/index.html>.

Paint that is applied offsite or outside the occupied interior of the Airport is not required to meet these limits.

### **Construction Practices: Indoor Air Quality During Construction**



For all construction projects, renovations and remodels, contractors are required to develop and implement an Indoor Air Quality Management Plan for the construction and pre-occupancy phases of the project. The plan should:

Reference the five Design Approaches of the Sheet Metal and Air Conditioning National Contractors Association (SMACNA) IAQ Guideline for Occupied Buildings under Construction, 1995, Chapter 3.

Protect stored on-site or installed absorptive materials from moisture damage.

Provide filtration with a minimum MERV value of 8 at each return air grill located within the project's area, if air handlers are used during construction,

### **Construction Practices: Construction and Demolition Debris Management**

All contractors will make it a priority to divert construction waste and demolition debris from landfills or incinerators. Contractors are required to identify the means by which they will accomplish this diversion and provide a brief report to Port of Seattle personnel for their review.

Identify your waste management plan and assure that the hauler can provide the necessary services.

Ensure that material separated and designated for recycling does not become contaminated with non-recyclables.

Onsite separation of recyclables is preferable to comingling them. Separate these materials whenever possible.

## VII. GENERAL INDEX

ITEM	SECTION
Acoustical wall treatment .....	C3010.70
Acoustical tiles interior ceiling finishes .....	C3030.20
Administration .....	II - 1
Aircraft passenger loading bridges.....	D10.40
Applicable codes .....	III - 4
Apron lighting poles.....	B2010.60
Architectural Standards Update Request.....	VI - 2
Ash trays .....	E2020.50
Baggage storage units .....	E1010.20
Baggage claim devices .....	D10.50
Carpet .....	C3020.50
Cast-in-place concrete beams .....	B1010.30
Cast-in-place concrete columns.....	B1010.10
Cast-in-place concrete walls .....	B1010.50
Column covers .....	C3010.110
Concrete unit masonry.....	B1010.70
Coordination with other Standards.....	II - 6
CSI/CSC Unifomat for Building Construction.....	VI - 42
Door accessories (interior) .....	C1020.40
Door hardware exterior doors .....	B2030.30
Door hardware interior doors .....	C1020.30
Elevators .....	D10.10
Entrance doors and frames.....	B2030.10
Escalators .....	D10.20
Existing Fixtures, Furnishings and Equipment Photographs.....	VI - 47
Expansion control.....	C1030.40
Exterior louvers, grilles, and screens .....	B2010.30
Exterior metal stairs .....	B2010.40
Exterior painting .....	B2010.70
Exterior soffits .....	B2010.20
Fabric wall covering .....	C3010.100
Fiber reinforced plastic covered panels .....	C3010.80
Fire extinguisher cabinets .....	E1010.30

Fire hose cabinets.....	E1010.40
Fixed casework .....	E2010.10
Fixed floor mats.....	E2010.40
Fixed interior landscape containers .....	E2010.50
Fixed multiple seating .....	E2010.30
Glazed aluminum curtain walls .....	B2020.20
Glazing exterior doors .....	B2030.40
Glazing exterior windows .....	B2020.50
Glazing interior doors.....	C1020.50
Gypsum board interior ceiling finishes .....	C3030.10
Gypsum board interior wall finishes .....	C3010.40
Index of Existing (Non-Standard) Materials and Finishes by Terminal Area.....	VI - 3
Interior glazed partitions and storefronts.....	C1010.50
Interior grilles.....	C1010.30
Interior partitions .....	C1010.10
Interior stair painting.....	C2020.40
Interior wall painting .....	C3010.90
Interior windows .....	C1010.40
Linear metal ceiling .....	C3030.30
Louvers and vents.....	C1030.10
Materials/Finishes by terminal area .....	IV - 40
Membrane roofing.....	B3010.10
Metal ceiling panels.....	C3030.40
Metal exterior doors and frames .....	B2030.20
Metal interior doors and frames .....	C1020.10
Metal railings (exterior).....	B2010.50
Metal wall panels exterior walls.....	B2010.10
Metal wall panels interior wall finishes .....	C3010.30
Miscellaneous metal trim.....	C3010.120
Movable interior landscape containers.....	E2020.60
Movable multiple seating.....	E2020.20
Movable queuing rails .....	E1010.50
Movable rugs and mats.....	E2020.10
Moving walks.....	D10.30
Organization and Use of Document .....	II - 4
Overview .....	I - 1
Ownership of Improvements .....	II - 4

Parapets.....	B2010.80
Plastic interior doors.....	C1020.20
Plastic laminate panels .....	C3010.10
Purpose of Architectural Standards .....	I - 4
PVC roofing.....	B3010.10
 Railings .....	C1010.20
Relationship to other Programs.....	II - 6
Resilient flooring.....	C3020.40
Resilient stair finishes .....	C2020.20
Review Process .....	III - 1
Review Schedule .....	III - 2
 Selection Criteria.....	III - 2
Sheet metal (roofing).....	B3010.20
Signs .....	C1030.20
Skylights.....	B3020.10
Slip resistant finishes .....	C3020.60
Stair railings .....	C2020.30
Standard exterior windows.....	B2020.10
Stone facing interior wall finishes.....	C3010.60
Stone flooring .....	C3020.30
Structural glass curtain walls.....	B2020.30
Structural steel beams .....	B1010.40
Structural steel columns and bracings .....	B1010.20
 Tables .....	E2020.30
Terminal Public Areas .....	IV - 1
Terrazzo stair finishes .....	C2020.10
Terrazzo interior floor finishes.....	C3020.20
Tile interior floor finishes .....	C3020.10
Tile wall finishes .....	C3010.50
Translucent walls and skylight systems .....	B2020.40
 Unmanned passenger services.....	E1010.10
 Variance Process .....	III - 2
Variance Request.....	VI - 1
 Wainscoting.....	C3010.140
Wall and corner guards .....	C1030.30
Wall base .....	C3010.130

Waste and recycling receptacles .....	E2020.40
Window coverings .....	E2010.20
Window hardware and accessories .....	B2020.60
Wood panels .....	C3010.20