**3-PART CSI MASTERFORMAT SPECIFICATION**

**SECTION 079513.19**

**PARKING DECK EXPANSION JOINT COVER ASSEMBLIES**

REV 10/23

1. GENERAL
	* + 1. SUMMARY
				1. Section includes parking deck expansion joint cover assemblies.es:
			2. Related Requirements:
				1. Section 079100 "Preformed Joint Seals" for preformed foam and extruded-silicone joint seals.
			3. COORDINATION
				1. Coordinate sizes and locations of expansion joint cover assemblies with joint widths and assumed movement.
			4. action SUBMITTALS
				1. Comply with Division 01 requirements.
				2. Product Data: Manufacturer's specifications and technical data edited specifically for proposed system, including specific requirements indicated.

Detailed specification of construction and fabrication.

* + - * 1. Shop Drawings: Indicate joint device profile, dimensions, location in the work, affected adjacent construction, anchorage devices, and location of splices.
				2. Samples: For each expansion joint cover assembly and for each color and texture specified, full width by 6 inches (150 mm) long in size.
			1. Informational submittals
				1. Sustainable Design Submittals:

Building Product Disclosure Requirements: To encourage the use of building products that are working to minimize their environmental and health impacts, provide the following information when available:

Material Ingredients Documentation demonstrating the chemical inventory of the product.

* + - 1. closeout submittals
				1. Manufacturer's Installation Instructions and Operation & Maintenance: Indicate installation, operation and maintenance requirements and rough-in dimensions
				2. Provide manufacturer’s written warranty.
			2. DELIVERY, STORAGE AND HANDLING
				1. Comply with Division 01 requirements.
				2. Furnish units in longest practicable lengths to minimize field splicing.
				3. Include factory-fabricated closure materials and transition pieces, T-joints, corners, curbs, cross-connections, and other accessories as required to provide continuous expansion joint cover assemblies.
				4. Packing and Shipping: Deliver products in original unopened packaging with legible manufacturer's identification.
				5. Store per manufacturer’s instructions.

Store in dry area out of direct sunlight.

1. PRODUCTS
	* + 1. MANUFACTURERs
				1. Subject to compliance with requirements, provide products from the following manufacturer:

Nystrom
9300 73rd Avenue North
Minneapolis, MN 55428
PH: (800) 547-2635
www.Nystrom.com

* + - 1. SLAB-TO-SLAB PARKING AND OPEN-AIR STRUCTURE EXPANSION CONTROL SYSTEMS
				1. Aluminum Hinged Heavy Duty System Surface Application.

Basis-of-Design Product: Subject to compliance with requirements, provide Nystrom Model EJN-PD

Design Criteria:

Exposed Sight-Line: **[As indicated on Drawings] <Insert width>.**

Total Horizontal Movement: **[As indicated on Drawings] <Insert width>.**

Vertical Movement: 5 deg upward, 15 deg downward.

Material: Aluminum

Finish: Mill.

Attachment Method: Mechanical fasteners.

Load Capacity: Light vehicular traffic.

Fire-Resistance Rating: Provide expansion control system and fire-barrier assembly with a rating not less than [**that of adjacent construction**] <**Insert rating**>.

Moisture Barrier: Manufacturer's standard.

* + - * 1. Rubber Coated Heavy Duty System Surface Application.

Basis-of-Design Product: Subject to compliance with requirements, provide Nystrom Model EJN-RCP

Design Criteria:

Exposed Sight-Line: **[As indicated on Drawings] <Insert width>.**

Total Horizontal Movement: **[As indicated on Drawings] <Insert width>.**

Vertical Movement: 5 deg, 1 inch (25 mm).

Material: Aluminum

Finish: EPDM Rubber coated, Black.

Attachment Method: Mechanical anchors.

Load Capacity: Light vehicular traffic.

Retain "Fire-Resistance Rating" and "Moisture Barrier" subparagraphs below if required.

Fire-Resistance Rating: Provide expansion control system and fire-barrier assembly with a rating not less than [**that of adjacent construction**] <**Insert rating**>.

Moisture Barrier: Manufacturer's standard.

* + - * 1. Seismic Pre-Compressed Parking Deck Foam System Recessed Application.

Basis-of-Design Product: Subject to compliance with requirements, provide Nystrom Model EJN-PDM

Design Criteria:

Exposed Sight Line: **[As indicated on Drawings] <Insert width>**.

System Width: **[As indicated on Drawings] <Insert width>**.

Minimum Joint Width: **[As indicated on Drawings] <Insert width>**.

Maximum Joint Width: **[As indicated on Drawings] <Insert width>**.

Material:

Silicone bellows with foam sealant.

Attachment Method: Self-compression with silicone sealant and 2 part epoxy.

Load Capacity: Vehicular Traffic.

* + - * 1. Seismic Aluminum Heavy Duty Flooring System Surface Application.

Basis-of-Design Product: Subject to compliance with requirements, provide Nystrom Model EJN-PTS

Design Criteria:

Exposed Sight-Line: **[As indicated on Drawings] <Insert width>.**

Minimum Joint Width: 1.38 inch (35 mm).

Maximum Joint Width: **[As indicated on Drawings] <Insert width>.**

Material: Aluminum

Finish: Mill

Attachment Method: Block out, concrete anchor, and backfill.

Load Capacity: Light vehicular traffic.

Retain "Fire-Resistance Rating" and "Moisture Barrier" subparagraphs below if required.

Fire-Resistance Rating: Provide expansion control system and fire-barrier assembly with a rating not less than [**that of adjacent construction**] <**Insert rating**>.

Moisture Barrier: manufacturer's standard.

* + - * 1. Seismic Aluminum Heavy Duty Flooring System Recessed Blockout Application

Basis-of-Design Product: Subject to compliance with requirements, provide Nystrom Model EJN-PTX

Design Criteria:

Exposed Sight-Line: **[As indicated on Drawings] <Insert width>.**

Minimum Joint Width: 1 inch (25 mm).

Maximum Joint Width: **[As indicated on Drawings] <Insert width>.**

Material: Aluminum

Finish: Mill.

Attachment Method: Block out, concrete anchor, and backfill.

Load Capacity: Light vehicular traffic.

Retain "Fire-Resistance Rating" and "Moisture Barrier" subparagraphs below if required.

Fire-Resistance Rating: Provide expansion control system and fire-barrier assembly with a rating not less than [**that of adjacent construction**] <**Insert rating**>.

Moisture Barrier: manufacturer's standard.

* + - * 1. Seismic Seal System Recessed Epoxy Bonded with Application, new construction.

Basis-of-Design Product: Subject to compliance with requirements, provide Nystrom Model EJN-EES

Design Criteria:

Exposed Sight-Line: **[As indicated on Drawings] <Insert width>.**

Minimum Joint Width: 3/4 inch (19 mm).

Maximum Joint Width: **[As indicated on Drawings] <Insert width>.**

Material: Santoprene Seal

Attachment Method: Block out, concrete anchor, and backfill.

Load Capacity: Light vehicular traffic.

Retain "Fire-Resistance Rating" and "Moisture Barrier" subparagraphs below if required.

Fire-Resistance Rating: Provide expansion control system and fire-barrier assembly with a rating not less than [**that of adjacent construction**] <**Insert rating**>.

Moisture Barrier: manufacturer's standard.

* + - * 1. Seismic Wing Parking System Recessed Blockout Application

Basis-of-Design Product: Subject to compliance with requirements, provide Nystrom Model EJN-WS

Design Criteria:

Exposed Sight-Line: **[As indicated on Drawings] <Insert width>.**

Minimum Joint Width: 2 inch (50 mm).

Maximum Joint Width: **[As indicated on Drawings] <Insert width>.**

Material: Aluminum

Finish: Mill.

Attachment Method: Block out, concrete anchor, and backfill.

Load Capacity: Light vehicular traffic.

Retain "Fire-Resistance Rating" and "Moisture Barrier" subparagraphs below if required.

Fire-Resistance Rating: Provide expansion control system and fire-barrier assembly with a rating not less than [**that of adjacent construction**] <**Insert rating**>.

Moisture Barrier: manufacturer's standard.

* + - * 1. Seismic Exterior Plaza System Topping Slab Deck Application.

Basis-of-Design Product: Subject to compliance with requirements, provide Nystrom Model EJN-TSS

Design Criteria:

Exposed Sight-Line: **[As indicated on Drawings] <Insert width>.**

Minimum Joint Width: 2 inch (50 mm).

Maximum Joint Width: **[As indicated on Drawings] <Insert width>.**

Material: Aluminum

Finish: Mill.

Attachment Method: Block out, concrete anchor, and backfill.

Load Capacity: Light vehicular traffic.

Retain "Fire-Resistance Rating" and "Moisture Barrier" subparagraphs below if required.

Fire-Resistance Rating: Provide expansion control system and fire-barrier assembly with a rating not less than [**that of adjacent construction**] <**Insert rating**>.

Moisture Barrier: manufacturer's standard.

* + - 1. SLAB-TO-WALL PARKING AND OPEN-AIR STRUCTURE EXPANSION CONTROL SYSTEMS
				1. Aluminum Hinged Heavy Duty System Surface Application

Basis-of-Design Product: Subject to compliance with requirements, provide Nystrom Model EJN-PDw

Design Criteria:

Exposed Sight-Line: **[As indicated on Drawings] <Insert width>**.

Total Horizontal Movement: **[As indicated on Drawings] <Insert width>**.

Vertical Movement: 5 deg upward, 15 deg downward.

Material: Aluminum

Finish: Mill.

Attachment Method: Mechanical anchors and epoxy.

Load Capacity: Vehicular traffic..

Fire-Resistance Rating: Provide expansion control system and fire-barrier assembly with a rating not less than [**that of adjacent construction**] <**Insert rating**>.

Moisture Barrier: Manufacturer's standard.

* + - * 1. Seismic Aluminum Heavy Duty Flooring System Surface Application.

Basis-of-Design Product: Subject to compliance with requirements, provide Nystrom Model EJN-PTSw

Design Criteria:

Exposed Sight-Line: **[As indicated on Drawings] <Insert width>**.

Minimum Joint Width: **[As indicated on Drawings] <Insert width>**.

Maximum Joint Width: **[As indicated on Drawings] <Insert width>**.

Material: Aluminum

Finish: Mill

Attachment Method: Block out, concrete anchor, and backfill.

Load Capacity: Light vehicular traffic.

Retain "Fire-Resistance Rating" and "Moisture Barrier" subparagraphs below if required.

Fire-Resistance Rating: Provide expansion control system and fire-barrier assembly with a rating not less than [**that of adjacent construction**] <**Insert rating**>.

Moisture Barrier: manufacturer's standard.

* + - * 1. Seismic Aluminum Heavy Duty Flooring System Recessed Blockout Application.

Basis-of-Design Product: Subject to compliance with requirements, provide Nystrom Model EJN-PTXw

Design Criteria:

Exposed Sight-Line: **[As indicated on Drawings] <Insert width>**.

Minimum Joint Width: **[As indicated on Drawings] <Insert width>**.

Maximum Joint Width:

Material: Aluminum

Finish: Mill.

Attachment Method: Block out, concrete anchor, and backfill.

Load Capacity: Light vehicular traffic.

Retain "Fire-Resistance Rating" and "Moisture Barrier" subparagraphs below if required.

Fire-Resistance Rating: Provide expansion control system and fire-barrier assembly with a rating not less than [**that of adjacent construction**] <**Insert rating**>.

Moisture Barrier: manufacturer's standard.

* + - * 1. Seismic Wing Parking System Recessed Blockout Application

Basis-of-Design Product: Subject to compliance with requirements, provide Nystrom Model EJN-WSw

Design Criteria:

Exposed Sight-Line: **[As indicated on Drawings] <Insert width>.**

Minimum Joint Width: 2 inch (50 mm).

Maximum Joint Width: **[As indicated on Drawings] <Insert width>.**

Material: Aluminum

Finish: Mill.

Attachment Method: Block out, concrete anchor, and backfill.

Load Capacity: Light vehicular traffic.

Retain "Fire-Resistance Rating" and "Moisture Barrier" subparagraphs below if required.

Fire-Resistance Rating: Provide expansion control system and fire-barrier assembly with a rating not less than [**that of adjacent construction**] <**Insert rating**>.

Moisture Barrier: manufacturer's standard.

* + - * 1. Seismic Exterior Plaza System Topping Slab Deck Application.

Basis-of-Design Product: Subject to compliance with requirements, provide Nystrom Model EJN-TSSw

Design Criteria:

Exposed Sight-Line: **[As indicated on Drawings] <Insert width>.**

Minimum Joint Width: 2 inch (50 mm).

Maximum Joint Width: **[As indicated on Drawings] <Insert width>.**

Material: Aluminum

Finish: Mill.

Attachment Method: Block out, concrete anchor, and backfill.

Load Capacity: Light vehicular traffic.

Retain "Fire-Resistance Rating" and "Moisture Barrier" subparagraphs below if required.

Fire-Resistance Rating: Provide expansion control system and fire-barrier assembly with a rating not less than [**that of adjacent construction**] <**Insert rating**>.

Moisture Barrier: manufacturer's standard.

1. EXECUTION
	* + 1. EXAMINATION
				1. Verify that rough openings for joint covers are correctly sized and located.
				2. Verify block outs are in place, where required.
			2. PREPARATION
				1. Provide anchoring devices for installation and embedment.
				2. Provide templates or rough-in measurements.
			3. INSTALLATION
				1. Install components and accessories to comply with manufacturer's instructions.

Exterior conditions: Heat weld splices and intersections to form a continuous joint system.

* + - * 1. Align work plumb and level, flush with adjacent surfaces.
				2. Rigidly anchor to substrate to prevent movement or misalignment.
				3. Where required install flexible fire barrier to comply with manufacturer's instructions.

END OF SECTION