

FOOD DISTRIBUTION AND PROCESSING FACILITIES

PSM has a long history of providing structural design for food distribution centers, commercial freezers and processing plants. Because of our scope of projects, we have specialized knowledge of construction types, methods, and local codes for this particular building type. This is especially important for processing and cold storage facilities, where refrigeration machinery and insulation details significantly interface with the structural design. We also have significant long-term relationships with other experts in this field. Our experience in this type of structure allows us to provide economical designs and to respond rapidly with preliminary and final design documents.

Other industrial projects we have accomplished represent skills and design knowledge that build on and complement our experience in food processing and distribution.

BEN E. KEITH DISTRIBUTION CENTERS Dallas-Fort Worth, Texas, Oklahoma City, Oklahoma, Amarillo, Texas, and Missouri City, Texas

Each Distribution Center consists of close to 1,000,000 square feet in Freezer and Dry Stores Warehouse. Each project also includes several dock offices, a large, main plant office, a stand-alone Truck Maintenance Building, gatehouses, and other support buildings. We worked with other team members early in the design process to select an economical structural layout. PSM provided same-day response to most field questions as well as rapid turn-around of shop drawings.



RAILEX Walla Walla, Washington

This 200,000 square foot refrigerated warehouse provides cross-dock transshipment from trucks to a dedicated rail line, which brings Washington produce directly to East Coast markets. A similar facility was recently constructed in California.



Food Distribution and Processing (continued)

TERMINAL FREEZER
Oxnard, California

This 40,000 square foot freezer included a wood framed roof and multiple pipe bridges. An addition to this freezer is currently in design.



BORNSTEIN SEAFOODS FISH PROCESSING FACILITY
Astoria, Oregon

This facility, located at the mouth of the Columbia River on Astoria's historic waterfront, processes crab, shrimp, and other ocean catch. In addition to processing and cold storage, the plant includes retail and visitor accommodations. The \$12 million plant was constructed for the Port of Astoria.



PUBLIX DISTRIBUTION CENTER AND DAIRY PROCESSING FACILITY
Atlanta, Georgia

This \$50 million project includes 1,000,000 square feet of dry and perishable storage, supporting office, maintenance facilities, cafeteria, returns dock, and a dairy plant. The facility was designed in just under 3 months.



ALDI, INC.
Ohio, Pennsylvania, Kansas, Wisconsin, Iowa, New York

Our relationship with Aldi's, a grocery store chain in the Midwest and East, is typical of our work in the food distribution industry. In 1991, we designed a 400,000 square foot steel roof / tilt-up wall distribution center in Springfield, Ohio. This included a 320,000 square foot dry warehouse, 65,000 square foot refrigerated warehouse, and offices, lunchroom, and maintenance facility. We have since designed similar facilities in Pennsylvania, Wisconsin, Kansas and New York.



Food Distribution and Processing (continued)

**PUBLIX DISTRIBUTION CENTER
Deerfield, Florida**

This 800,000 square foot dairy products distribution center is constructed of exterior concrete tilt-up panels and steel roof joists. The size of the structure required use of an internal lateral load resisting system of structural steel braced frames. The building was designed for high wind loads arising from tropical storms.



**TWIN CITY FOODS PROCESSING RECONSTRUCTION
Stanwood, WA**

This project was designed and built on a fast-track basis, after a fire destroyed the entire plant. Total construction cost was over \$12 million for this pile supported facility, which included a freezer and processing area.



**PUBLIX MEAT AND DELI EXPANSION
Lakeland, Florida**

This project was an expansion of an existing complex to include a total of 90,000 square feet. The main floor is 60,000 square feet, and the upper floor 30,000 square feet. It is constructed with steel framing and insulated exterior wall panels. Construction cost was \$10 million.




**BRUNO'S GROCERY DISTRIBUTION CENTER
Birmingham, Alabama**

The Birmingham Distribution Center is a concrete tilt-up building with a steel roof and 40 foot high exterior concrete walls. It encompasses more than 1,000,000 square feet, including an adjacent 2-story office building.



COLD STORAGE PROJECTS:

Project	Location	Size	Features
Terminal Freezers	Oxnard, California	40,000 sf	<i>Wood-framed roof in high seismic zone.</i>
Lamb Weston Freezer and Processing Addition	American Falls, Idaho		<i>Precast concrete addition to an existing facility.</i>
Twin City Foods Freezer Rebuild	Arlington, Washington		
Crystal Cold Storage	San Antonio, Texas	25,000 sf	<i>Supported on drilled belled piers.</i>
National Frozen Foods Freezer and Processing	Moses Lake, Washington	110,000 sf	<i>Steel joist roof supported on concrete wall panels. Design/Build.</i>
Columbia Foods Freezer Rebuild	Winchester, Washington		
Nestle Freezer #3 and #4 repair	Othello, Washington		<i>Repairs to existing freezer roof trusses.</i>
Twin City Foods Freezer and Processing	Pasco, Washington	125,000 sf	
Sysco Warehouse Freezer and Cooler Additions	Kent, Washington	35,000 sf	<i>Steel joist roof, project included adding penthouse to existing roof structure.</i>
Telco Foods, Warehouse Additions	Colton, California	30,000 sf	
PDI Warehouse Additions	Ankeny, Iowa	146,000 sf	<i>Eight separate additions, with many types of construction.</i>
Associated Food Stores	Salt Lake City, Utah	200,000 sf Freezer	<i>Part of a larger 1,000,000 sf distribution center.</i>
Grocer's Supply Freezer Addition	Houston, Texas	40,000 sf	
Polynesian Cultural Center Freezer Building	Laie, Oahu, Hawaii	20,000 sf	
Aldi Distribution Centers	Oak Creek, Wisconsin, Olathe	450,000 sf Total	<i>Steel joist roof supported on concrete wall panels, with brick exterior.</i>

	Kansas, and Tully, New York	80,000 sf Freezer	
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OTHER RECENT PROJECTS:

- RDO/CALBEE PROCESSING PLANT AND FREEZER, Boardman, OR (2006)
- ENFIELD FARMS NEW REPACK FACILITY, Burlington, WA (2006)
- SPACE LLC NEW FREEZER BUILDING, Medford, OR (2005)
- REINHART FOODSERVICE WAREHOUSE EXPANSION, Prince George, VA (2005)
- SAFEWAY ICE CREAM PLANT ASSESSMENT, Bellevue, WA (2005)
- WA BEEF PROCESSING PLANT NUMEROUS ADDITIONS, Toppenish, WA (2004)
- SAFEWAY DISTRIBUTION CENTER ADDITIONS, Clackamas, OR (2004)
- IVAR'S NEW PROCESSING FACILITY, Mukilteo, WA (2004)
- TAYLOR SHELLFISH NEW FACILITY, Sheldon, WA (2004)
- SAKUMA BROTHERS FOOD PROCESSING EXPANSION, Burlington, WA (2003)
- TERMINAL FREEZERS ADDITIONS, Oxnard, CA (2003)
- TELCO DRY STORES ADDITION, Colton, CA (2001)
- SAFEWAY DAIRY PLANT SILO AND POST-EARTHQUAKE EVALUATION, Bellevue, WA (2001)
- SYSCO WAREHOUSE FREEZER AND COOLER ADDITIONS, Kent, WA (2001)
- TELCO FOODS WAREHOUSE ADDITIONS, Colton, CA (2001)
- FRITO-LAY DISTRIBUTION CENTER EXPANSION, Federal Way, WA (2001)
- PEPSI DISTRIBUTION CENTER ADDITION, Riverside, CA (2001)
- SIMPLOT POTATO PROCESSING PLANT EVALUATION, Hermiston, OR (2001)
- ASSOCIATED FOOD STORES NEW DISTRIBUTION CENTER, Salt Lake City, UT (2000)
- PDI FREEZER, DRY GROCERY, AND DAIRY ADDITIONS, Ankeny, IA (1999)
- TWIN CITY FOODS, NEW FREEZER AND PROCESSING FACILITY, Pasco, WA (1998)
- NATIONAL FROZEN FOODS, Moses Lake, WA (1997)
- GROCER'S SUPPLY FREEZER ADDITION, Houston, TX (1997)
- CASCADE CLEAR WATER CORP. EXPANSION, Burlington, WA (1996)
- GORDON FOODSERVICE DISTRIBUTION AND PROCESSING CTR, Springfield, OH (1996)