To accommodate the rapidly increasing Thorns and Timbers fan bases, the team owners wished to expand the east side of Providence Park Stadium.

Phased construction was imperative to occur primarily in the Thorns and Timbers off-seasons. However, the Timbers played so well, their 2017 and 2018 seasons were extended, pushing out the start dates for construction.

This left no room for float in the schedule. Could a unique renovation of this scale, on a publicly-owned facility with private interests, be designed and constructed during the variable phased construction windows and project budget? The expanded stadium, entrances, concessions, field, lighting, and team rooms all had to be completed and ready for the Timbers’ home opener.

A project of this speed and magnitude required KPFF’s structural and civil engineers to immediately develop phased plans, structural sketches, and utility designs at a rapid pace.

The result: On June 1, 2019, the Portland Timbers hosted Los Angeles FC in the renovated stadium for their season home opener! The stadium received its certificate of occupancy the day before. At kick-off time, Providence Park was filled with more fans, players and staff than ever before.

Providence Park's eastside expansion was uniquely challenging, but it stands today as a proud testament to Portland’s professional soccer teams and creative collaboration between engineers, architects, and contractors.

The project also won the PEOPLE’S CHOICE AWARD.
**Engineering Excellence Awards 2020**

**David Evans and Associates wins Best in Category (Transportation) for I-205: Johnson Creek—Glenn Jackson Bridge Phase 2 for ODOT**

Through immense teamwork, coordination, and innovation the project team was able to deliver this highly complex project, which helped (in part) to secure $5.3 billion of future transportation funding over 10 years as part of Keep Oregon Moving (House Bill 2017).

**Kennedy Jenks and Shannon & Wilson win Best in Category (Water, Wastewater & Storm Water Systems) for Tualatin Interceptor and Siphon Improvements Phase A for Clean Water Services**

The ground-breaking design of Phase A of the Tualatin Interceptor and Siphon set the new record for the tightest radius curve tunnel for a pipe of this diameter in North America, demonstrating that trenchless construction for a gravity collection system under highly constrained conditions can be accomplished with collaboration of designers and constructors.

Pictured at right, from left: Elliott Meacham, Shannon & Wilson; Rob Peacock, Kennedy Jenks; Wade Denny and Aaron Johns, Clean Water Services; Tom Paul, Mortenson Construction; Dean Wood, Kennedy Jenks; Andy Braun, Clean Water Services; and Ashley Heckman, Aldea Services.
Pictured above, from left (spanning pages 2 to 3): Amer Hmidan and Katelyn Jackson, ODOT; Mike Rice, DEA; Taylor Hart and Nate Schroeder, DKS Associates; Anthony Calcagno, Ed Chamberland and Scott McCanna, DEA; Paul Scarlett, ODOT; Ben Hert, Candi Roche and Ted Stewart, DEA; Adam Markell and Jason McNeil, ODOT; Nick Donnelly, DEA; Chris Ell, GRI; Jose Vilalpando, ODOT; Jay Hedberg, Kerr Contractors; and Awais Zubair, DKS Associates.

THANK YOU!

2020 ENGINEERING EXCELLENCE JUDGES

John Lewis, PE
Public Works Director
City of Oregon City

Kristina “Kristy” Fortuny, PE, Chief
Veterans Affairs Branch
U.S. Army Corps of Engineers, Portland District

Kevin Houser, PhD, PE (NE), LEED AP, Professor
School of Civil & Construction Engineering
Oregon State University

Joe Gehlen, PE (retired)
Kramer Gehlen & Associates

Bill Beyer, Advertising Director
Daily Journal of Commerce

Pictured above: Master of Ceremonies Dale Johannes greets the crowd. More than 300 members, guests and clients attended the annual awards dinner.
Three projects earn Grand Awards from a field of 22 entries

GRAND AWARD
RH2 ENGINEERING
Bethlehem Inn Redevelopment for Bethlehem Inn
RH2 donated professional engineering services for the water, sewer, stormwater and site design to Bethlehem Inn, a homeless shelter in Bend. The redevelopment resulted in the shelter doubling its capacity and increasing the number of services provided.

Pictured at right, from left: Gwenn Wysling, Bethlehem Inn; and Kyle Pettibone, RH2 Engineering.

GRAND AWARD
HDR Earthquake Ready Burnside Bridge Feasibility Study for Multnomah County
The on-time, on-budget Burnside Bridge Seismic Feasibility Study was completed in winter 2018, providing Multnomah County with a plan to retrofit the century-old bridge to withstand—and be operable after—a magnitude 8.0 earthquake.

Pictured below, from left: Mike Pullen, Multnomah County; Cassie Davis and Heather Catron, HDR; and Ian Cannon, Multnomah County.

photos by Julie Keeffe
GRAND AWARD
CORNFORTH
CONSULTANTS, INC.
Historic Columbia River Highway Trail for Federal Highway Administration Western Federal Lands Highway Division and Oregon Department of Transportation
Cornforth Consultants worked with FHWA and ODOT to recreate a roadway consistent with Samuel Lancaster’s vision of America’s first scenic byway and brought the partner agencies one step closer to re-establishing a continuous route from Troutdale to The Dalles.

Pictured above, from left: Keaton Nemes and Justin McCarley, Cornforth Consultants; Mac Lynde, ODOT; Brent Black and Gerry Heslin, Cornforth Consultants.

Otak wins Small Project Award for Kellogg Creek Emergency Bridge Replacement for City of Milwaukie

The Kellogg Creek Bridge Emergency Replacement was subtle in nature, yet deep in complexity.

It took a host of engineering, environmental, and economic solutions to design and build this robust and sustainable bridge project in one year.

Pictured above, from left: Larry Gescher, HP Civil; Kevin Timmins and Scott Nettleton, Otak; Jennifer Garbely, City of Milwaukie; Josh Smith, HP Civil; and Emily Swager, ODOT.
Honor Awards

AKS ENGINEERING & FORESTRY, LLC
Bull Mountain Trunk Improvements for Clean Water Services
The size and complexity of this project, with its adverse conditions and scheduling conflicts, among other challenges, would have taken as many as five years to complete. Instead, it was substantially complete one month ahead of an ambitious two-year schedule, and $1 million under budget.

Pictured at right, from left: Nadia Azaad-Dunn, Jason Wuertz and John Christiansen, AKS Engineering & Forestry; Jason Horner, Brad Crement and Andy Braun, Clean Water Services.

ANDERSON PERRY & ASSOCIATES, INC. and ADKINS ENGINEERING AND SURVEYING
Replacing the C-Flume (critical supply artery) for Klamath Irrigation District
The one thing you should know about this project is that with some creative engineering, it is possible to weave a nearly 1-mile-long, 10-foot diameter pipe over, under, and around major obstacles with extremely tight hydraulic constraints. Where there’s a will, engineers will find a way.

Pictured at right, from left: Brett Moore, Anderson Perry; Jon Moritz, Dan Scalas and Brian Pisan, Adkins Engineering.

CENTURY WEST ENGINEERING
Bend Municipal Airport Helicopter Operations Area for City of Bend
This project utilized three FAA grants, two ConnectOregon grants, and a share of local City of Bend funding to construct one of the largest helicopter-specific facilities in the West.

Pictured at right, from left: Matt Rogers, Century West Engineering; Gary Judd (retired), Bend Municipal Airport; and Tom Headley, Century West Engineering.
Honor Awards (continued)

DAVID EVANS AND ASSOCIATES, INC. SW 124th Avenue Improvements for Washington County
Local agencies came together with a common vision and shared funding strategy to increase employment opportunities, improve transportation safety, establish water supply resiliency, and reduce congestion along the corridor. This new corridor is helping keep the economy growing, people moving, and water flowing!

Pictured above, from left: Cory Burlingame and Tina Adams, Casso Consulting; Ted Stewart and Mike Hickey, David Evans and Associates, Inc.; Russ Knoebel, Washington County; Jeff Tucker, GeoDesign; Lynn Peterson, Metro; Abe Turki and Renus Keefkens, Washington County; and Gavin Oien, David Evans and Associates, Inc.

GRI and DAVID EVANS AND ASSOCIATES, INC. Chetco Point Memorial Trail for City of Brookings
A unified design and construction team having a common goal to bring greater public access to a spectacular scenic area can spark innovative engineering and deliver an ambitious project with limited funding and resources.

Pictured at left, from left: Chris Eli, GRI; Tony Baron, City of Brookings; and Anthony Calcagno, David Evans and Associates, Inc.
Honor Awards
(con’t from page 7)

GRI and KPFF
Clackamas Community College Transportation Improvements for inici group
This project meets the expected transportation needs of Clackamas Community College for the next 25 years. The parking lot doubles the number of parking stalls, provides ADA access and a location for personal vehicle drop-off.

Pictured at right, from left: Jack Gordon, GRI; Paul Dedyo, KPFF; Lindsi Hammond and Mike Maloney, GRI.

HARPER HOUF PETERSON RIGHELLIS, INC.
Blackburn Center (for Central City Concern) for Ankrom Moisan Architects
The Blackburn Center delivers a unique, integrated approach to treating homelessness by offering housing, health care, and employment under one roof, and provides a template for future projects.

Pictured above, from left: Mariah Kiersey and Ryan Grady, Ankrom Moisan Architects; and Alex Simpson, Harper Houf Peterson Righellis.

HARPER HOUF PETERSON RIGHELLIS, INC.
First Street Improvements for City of Woodburn
This project illustrates how a small town can revitalize its economy by enhancing and refining their downtown corridor, inviting future development and growth.

Pictured above, from left: Beau Braman, Harper Houf Peterson Righellis; Amanda Setzer, City of Woodburn; and Ben Austin, Harper Houf Peterson Righellis.
KELLER ASSOCIATES and SHANNON & WILSON
Grabhorn Reservoir Replacement - Progressive Design Build Delivery for Tualatin Valley Water District
The Grabhorn Reservoir Replacement shows that progressive design-build delivery results in cost savings and spurs innovation for complex and challenging projects.

Pictured above, from left: Jennifer Mead, Kyle Romney and Kevin Wood, Shannon & Wilson; Andrew Barrett, Tualatin Valley Water District; Peter Olsen, Keller Associates; Matt Duffy, Willamette Water Supply Program; and Arin Atiyeh, Emery and Sons Construction Group.

KITTELSON & ASSOCIATES, INC.
Blueprint for Urban Design for Oregon Department of Transportation
Communities throughout Oregon are increasingly becoming urbanized and placing various needs on the transportation system. This trend has caused the Oregon Department of Transportation (ODOT) to re-evaluate how to establish multimodal transportation facilities within an urban context. In response, ODOT developed the Blueprint for Urban Design.


PARAMETRIX
Kemmer Road Intersection for Washington County
The new roundabout improves mobility and safety in a rapidly growing area of Washington County. Increased traffic associated with a new high school and several residential developments now travels smoothly through the intersection, reducing pollution associated with idling cars.

Pictured at left, from left: Steve Boice, DKS Associates; John Willis, Parametrix; Charlie Stearns, Washington County; and Brian Bierwagen, Parametrix.
Honor Awards
(continued from page 9)

PARAMETRIX
Pacific City Wastewater Treatment Plant for Pacific City Joint Water-Sanitary Authority
Significant capacity and process improvements were made to the wastewater treatment plant to bring it into compliance and provide additional capacity for growth, all while keeping the plant operational throughout the entire process.

Pictured at right, from left: John Willis, Parametrix; Kirk Medina, Pacific City Joint Water-Sanitary Authority; and Michael Pyszka, Parametrix.

PBS ENGINEERING AND ENVIRONMENTAL
Ridgefield Outdoor Recreation Complex for City of Ridgefield
For two years in a row, the City of Ridgefield, WA has been the fastest growing city in the state, and needed a space where the community could gather for sports and other events. This project successfully meets those needs, while minimizing environmental impact.

Pictured at right, from left: Rich Darland and John Buehler, PBS; Brenda Howell and Bryan Kast, City of Ridgefield; and Elissa Peters, PBS.
Honor Awards
(continued)

PETE RSON STRU C TU R AL EN G IN E E R S
Hannah Mason Pump Station for Murraysmith and Portland Water Bureau
This innovative team came together to develop a highly efficient and sustainable, yet also visually appealing, pump station that complements the natural environment. The facility provides water service to the surrounding areas and eloquently serves the community.

Pictured at left, from left: Mike Punteny, Peterson Structural Engineers; Mike Carr, Murraysmith; and David Williams, Michael Willis Architects.

QUINCY EN GI NEER ING, INC.
US 101 @ OR 6 (Tillamook) for Oregon Department of Transportation
This project revitalized the City of Tillamook and brought an economic boost to the community. With a focus on urban renewal, the city was able to free up traffic along a busy bridge entering downtown and improve access to historic buildings and business.

Pictured at left, from left: Josh Goodall, Quincy Engineering; Chad Maxwell, Otak; Karen Tatman and Brett Karnes, Quincy Engineering; and Ian Machan, Murraysmith (formerly with Otak on this project).

WHAT IS ENGINEERING EXCELLENCE?
The Engineering Excellence Awards is an annual design competition which recognizes engineering firms for projects that demonstrate an exceptional degree of innovation, complexity, achievement and value.

A panel of judges is convened for a day to evaluate and select the best engineering projects based on criteria such as:

- Uniqueness and/or innovative applications of new or existing techniques;
- Future value to the engineering profession and enhanced public awareness/enthusiasm for the role of engineering;
- Social, economic and sustainable development considerations;
- Complexity; and
- Successful fulfillment of client/owner needs, including schedule and budget.

These projects attest to the continuing impact ACEC Oregon firms have on the quality of life in Oregon, southwest Washington and throughout the world.
Pictured above, from left (seated): André Bealer, Metro; ACEC Oregon Vice President and PAC Champion Mark Leece, PBS; ACEC Oregon Vice President Jason Tell, WSP; Mac Lynde, Oregon Department of Transportation; ACEC Oregon President-Elect Larry Fox, DOWL; ACEC Oregon Vice President Tonya Finley, David Evans and Associates, Inc.; Lynn Peterson, Metro. Standing: ACEC Oregon President Tony Roos, Kittelson & Associates, Inc.; and ACEC Oregon Executive Director Alison Davis.

Pictured at left, from left: Nate Schroeder, DKS Associates; Gavin Oien, David Evans and Associates, Inc.; ACEC Oregon Vice President Tina Adams, Casso Consulting; Krey Younger, GeoDesign; Renus Kelfkens, Washington County; and Paul Scarlett, Oregon Department of Transportation.

Pictured below left, from left: Stephen Eagar and Brittany Zeller, Central Geotechnical Services; and Mike Reynolds, Reynolds Engineering.

Pictured at left, from left: ACEC Oregon National Director and Past President Erik Peterson, Peterson Structural Engineers; Neil Fernando, Emerio Design; and ACEC Oregon Past President Troy Bowers, Murraysmith.