KEY STAFF RESUMES

Consultant Name: Murray, Smith & Associates, Inc. ; **RFP #:** 25134 **[OR] Mini-Solicitation #:** _____

Project Name: Full-Service A&E Price Agreements for ODOT and Local Agency Transportation Projects

Name & Title: Kevin Thelin, P.E., Vice President

Name of firm (only if sub):

Role on this project: Project Manager

Active registration in Oregon (Y/N): Y

Discipline: Civil Engineering

Education: BSCE, Portland State University; BA, German, University of Oregon

Years of experience in discipline/role proposed for this project: 25

Key Expertise: *Project Management, QA/QC, Technical Reporting, Highway Improvements, Safety Improvements, Design Criteria, Permitting, Stormwater Management, Subsurface Utility Engineering, Public Involvement, and Const. Mgmt.*

"I just wanted to say thanks to you [Kevin Thelin] and your team for the presentation given at last week's meeting with NMFS. Your preparation and attention to detail, along with the quick follow-up with additional requested information, ensured that the liaison had the information he needed to make his decision to not require re-initiation. I have no doubt that your efforts saved many engineering hours and helped to keep the project on track for its scheduled bid opening."

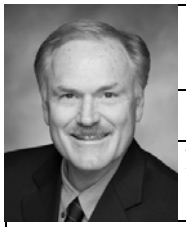
- Matt Freitag, ODOT PM, Region 1, on the I-5 Capitol Hwy - Willamette River Bridge Preservation Project

I-5 SB Auxiliary Lane Under Construction

Experience on relevant projects: ***Kevin Thelin, P.E.*** joined MSA in 1993 and was named a firm principal in 2002. He has spent much of his career at MSA working on ODOT-related projects, starting with the complex, multi-phase, decade-long Westside Corridor Project on US26 and continues to serve as one of MSA's lead contacts and project managers for the firm's ODOT work. Kevin is one of the firm's subsurface utility engineering and coordination specialists, having been instrumental in the firm's formal development of these services, which began with ODOT's OR99W in Newberg. He will ensure that key project goals and milestones are met and that all work is satisfactorily performed within established budgets.

- **US26: SE 111th – SE 176th,** ODOT, - *Project Manager*. See project description in proposal.
- **Springwater Trail: Rugg Rd. to Dee St.**, ODOT/Clackamas County - *Principal-in-Charge*. See project description in proposal.
- **I-5: Capitol Highway – Willamette River Bridge Sec.,** ODOT - *Project Manager*. Kevin led the design work and multiple design support studies for the DAP and Final PS&E packages. This project included several Agency-requested project additions on a fast-track schedule. He regularly demonstrated his ability to look ahead and anticipate questions and informational needs to keep the project moving on schedule.
- **I-5 at I-205 Interchange Project**, ODOT, Wilsonville, OR - *Project Manager*. Kevin led the design and subconsultant team for this fast-track JTA-funded project which included the addition of a two mile long "auxiliary" lane in the north bound direction of I-5 between Elligsen Rd. and I-205. Kevin also led the permitting efforts with Washington County, Clean Water Services and the City of Tualatin, including assembling all required CE Closeout documentation for this fast-track design.
- **US20: Philomath Couplet**, ODOT, Philomath, OR - *Project Manager*. Kevin led the design team, including an intensive public involvement process, for the reconstruction of an approximately 1.5 long section of US20/OR34 through downtown Philomath. He also led multi-agency coordination to secure permitting and clearances for this comprehensive modernization project.
- **OR47: Azalea St. - 2nd St. (Yamhill)**, ODOT, Yamhill, OR - *Assistant Project Manager*. This project included pavement reconstruction, new pedestrian facilities including sidewalks and a crosswalk with a flashing pedestrian signal. MSA provided full design engineering and construction contract administration and construction engineering services.
- **The Dalles Transportation Center - Environmental**, ODOT/MCCOG - *Project Manager*
- **US26: MP 49.20 - MP 57.45, Storm, Water Quality, Erosion Control,** ODOT - *Project Manager*
- **US26 @ Brookwood/Helvetia (Shute Rd.) - Utility Coord.,** ODOT, - *Project Manager*
- **US26: Military Cr- Salmonberry-Wolf Cr Sec.**, ODOT - *Project Manager*. See reference form.
- **Downtown Utility Undergrounding and Streetscaping**, City of Sandy, OR - *Principal-in-Charge*
- **5th Street Improvements**, City of Woodburn, OR - *Principal-in-Charge*. See reference form.
- **I-205: East Portland Freeway at Glisan St & Park Place**, ODOT - *Project Manager*
- **I-5 at Beltline Interchange – Stormwater Design and SUE**, ODOT - *Project Manager*

KEY STAFF RESUMES



Name & Title: William Hollings, P.E., Principal Engineer

Name of firm (only if sub):

Role on this project: Project Manager

Active registration in Oregon (Y/N): Y

Discipline: Civil Engineering

Education: BSCE, Bucknell University
MSCE, Oregon State University

Years of experience in discipline/role proposed for this project: 36

Key Expertise: *Project Management; PS&E Development; QA/QC; Utility Coordination; Hydraulics; Permitting; Public Involvement & Coordination; Bicycle & Pedestrian Improvements; Stormwater Management; Construction Management*

"I was very pleased with MSA's work with the City. And also their very exceptional follow-up on questions that came up even a year after the project was completed. They rate among one of the best firms the City has dealt with." – Nancy Leonard, City of Waldport City Manager

OR140: N. Fork Little Butte Cr. – Green Springs Hwy

Experience on relevant projects: ***Bill Hollings, P.E.***, principal engineer and MSA's Springfield office manager, was named a firm associate in 2005 and a principal engineer in 2007. Bill has successfully completed a variety of engineering and construction projects for government agencies, private industry and consulting firms. Bill has served in key project management, design and construction management roles for a large variety of ODOT projects over the past 10 years, including Regions 1, 2, 3 and 4.

- **US101: Manzanita Ave - Neahkahnie Creek,** ODOT - *Project Manager*. Bill is managing all aspects of this highway realignment and fish passage project in Manzanita, including specialized geotechnical engineering for a new 15-foot diameter tunnel.
- **OR18: Newberg-Dundee Bypass Phase 1, ODOT** - *Utility Coordination Project Manager*. This multiphase modernization project will create a new bypass around the cities of Newberg and Dundee. Utility coordination services range from conflict identification, prior rights analysis, relocation plan review through construction coordination services.
- **I-5: Willamette River – Martin Creek**, ODOT - *Project Manager*. Bill managed all aspects of this multi-discipline project in Lane County that included pavement preservation, roadside safety inventories and upgrades, environmental studies, bridge repairs, traffic control and detour plans, and multiple local agency coordination.
- **US20: Philomath Couplet**, ODOT - *Lead Project Engineer, Construction Project Manager*. Bill led the design and managed the construction support services of this project which included roadway realignment and widening, complex traffic control staging, extensive project reporting, fish-friendly culvert installations, bike lanes, pedestrian crossings, and ADA compliance.
- **Downtown Streetscaping Improvements**, City of Philomath, OR - *Project Manager*. As follow-on to the Philomath Couplet project, Bill is managing designs for extensive pedestrian improvements and streetscaping through downtown Philomath. Designs include wider decorative sidewalks, narrower streets, curb extensions, bike lanes, curbs and gutters, water quality facilities such as flow through planters, street lighting, landscaping and many other streetscaping amenities.
- **US101: Alsea Bay Bridge – William Keady Wayside (Waldport)**, ODOT - *Project Manager*. This project in Waldport included right-of-way acquisition, streetscaping and roadway design, utility undergrounding, public involvement, construction staging, and mobility considerations.
- **OR140: N. Fork Little Butte Cr. – Green Springs Hwy**, ODOT - *Project Manager*. Bill was the overall project manager for this three phase pavement preservation and safety project on 31 miles of OR140. Bill managed the design and permitting for all phases of the project which involved pavement preservation, stormwater management, culvert replacements, signage and guardrail improvements, and safety modifications including design and construction of two left turn lanes.
- **I-5 at Beltline Interchange,** ODOT, Eugene, OR - *Assistant Project Manager*
- **OR62: Corridor Solutions Unit 2,** ODOT, Medford, OR - *Utility Coord. Project Manager*
- **Bundle 314/316**, ODOT/OBDP, Ashland, OR - *SUE and Stormwater Project Manager*
- **US97 at Iris Lane,** ODOT, Culver, OR - *Project Manager*
- **US26: Military Cr- Salmonberry-Wolf Cr. Sec.,** ODOT - *Assistant Project Manager*
- **I-5 at OR214 Interchange (Woodburn) SUE**, ODOT, Woodburn, OR - *Project Manager*

KEY STAFF RESUMES

Name & Title: Gabe Crop, P.E., Civil Engineer, Associate

Name of firm (only if sub):

Role on this project: Project Manager; Roadway Design

Active registration in Oregon (Y/N): Y
Discipline: Civil Engineering

Education: BSCE, University of Portland

Years of experience in discipline/role proposed for this project: 9

Key Expertise: *Roadway Geometric Design, PS&E Development, ODOT & Multi-Agency Coordination, Signing & Striping, Traffic Control, Construction Inspection & Documentation*

"In my opinion, MSA did nothing short of an outstanding job on the I-5 preservation projects...Kevin Thelin, Troy Bowers and Gabe Crop set the standard for project management and delivery...Kevin, Troy and Gabe demonstrated a great attention to detail, were forward thinking and truly fit the role of 'augmenting ODOT staff'. MSA took ownership of these projects and were committed to the delivery of the projects even with the constant changes and uncertainties around the projects. These are the characteristics and qualities that made my job 'easy'."
- Tom Braibish, Region 1 Geo/Hydro Manager, ODOT

5th Street Improvements - City of Woodburn, Oregon

Experience on relevant projects: ***Gabe Crop, P.E.*** joined MSA in 2002 and has served in a variety of planning, design, management and construction administration roles on several street and highway improvement projects. He has practical, hands-on ODOT-specific experience developing comprehensive contract documents including all required project documentation by ODOT. He works hard to identify issues, potential problems and solutions very early in design by immersing himself in the project details from the get-go. Gabe also maintains ODOT certifications as a General Construction Inspector and Traffic Signal Inspector.

- **US26: SE 111th – SE 176th,** ODOT - *Assistant Project Manager*. Gabe is leading the design and coordinating the work of the team's five subconsultants for this very fast-track safety improvement and pavement rehabilitation project. See project description in proposal.
- **Downtown Streetscape Phase 2 Improvements**, City of Sherwood, OR - *Project Manager*. Gabe is currently managing the design for roadway, pedestrian and utility improvements.
- **I-5 at I-205 Interchange,** ODOT - *Assistant Project Manager*. Gabe completed and managed multiple design requirements for this project to add a two mile long NB lane on I-5. Gabe was the engineer of record for multiple sheets (104) and specifications. See reference form.
- **I-5: Capitol Hwy. – Willamette River Bridge**, ODOT - *Project Engineer/Assistant Project Manager*. Gabe completed the design requirements for multiple project elements for this comprehensive freeway project. Design work included fast-track development of several geometric improvements such as two auxiliary lanes and widening of multiple interchange ramps, all to improve operations.
- **5th Street Improvements**, City of Woodburn, OR - *Project Manager*. Gabe managed all improvement aspects of this street modernization project for the City to reconstruct and upgrade 5th Street. See reference form.
- **Downtown Utility Undergrounding, Streetscaping and Signal Improvements,** City of Sandy, OR - *Project Engineer*. Gabe served as project engineer and inspector for two new signals, including geometric curb extensions, in Sandy to improve pedestrian crossings. Work included extensive coordination with ODOT for approval.
- **US20: Wheeler St. - Market St. (Lebanon),** ODOT - *Project Engineer*. Gabe completed curb radii designs for truck turning movements for this intersection reconstruction project.
- **OR47: Azalea St. - 2nd St. (Yamhill)**, ODOT - *Design Engineer/Inspector*. Gabe completed roadway and storm drainage designs and served as full-time inspector to reconstruct three blocks of OR47 in downtown Yamhill.
- **I-205: East Portland Freeway at Glisan St & Park Place**, ODOT - *Design Engineer/ Inspector*. Gabe designed and provided construction inspection for these ramp widening and metering projects for seven ramps on I-205.
- **US26: Military Cr-Salmonberry-Wolf Cr.**, ODOT - *Prelim. Design Engineer*. Gabe developed preliminary highway realignment designs that balanced design criteria requirements and cost using b/c analysis to justify safety improvements at this top 10% SPIS site.
- **US20: Philomath Couplet**, ODOT - *Staff Engineer*

KEY STAFF RESUMES

Name & Title: **Chris Link, P.E., Civil Engineer, Associate**

Name of firm (only if sub):

Role on this project: Project Manager; Hydraulics Lead

Active registration in Oregon (Y/N): Y

Discipline: Civil Engineering

Education: BSCE, Oregon State University

Years of experience in discipline/role proposed for this project: 7/4

Key Expertise: *Stormwater Management & Design; Storm Drainage Design; Roadway Geometric Design; Erosion Control; InRoads Modeling; Safety Improvements; Permitting; Specifications; Cost Estimating; Bicycle and Pedestrian Improvements; Traffic Control and Staging*

"I'm not surprised that your stormwater tech memo sailed through without comment; it is an excellent report, comprehensive and clear".– Tim Dodson, ODOT/OBDP Liaison, regarding Chris's Stormwater Report for the Bundle 314 and Bundle 316 project.

Storm Drainage Improvements, US26: Military Cr. - Salmonberry - Wolf Cr. Sec.

Experience on relevant projects: ***Chris Link, P.E.*** joined MSA in 2005 after working as a roadway designer for WSDOT and was named a firm associate in 2010. Chris has served in a variety of project management, design and construction administration roles on several ODOT modernization, safety, transportation enhancement and preservation projects. Chris is a skilled designer particularly experienced in developing stormwater designs. He recently served on ODOT's Jobs and Transportation Act (JTA) Section 18 Stormwater Environmental Performance Standards Team. This multi-agency team developed improved water quality and stormwater management guidance for ODOT and Local Agency projects.

- **US26: MP 49.20 - MP 57.45, Storm, Water Quality, Erosion Control,** ODOT - *Lead Hydraulics Engineer*. Chris is leading the storm drainage and water quality analysis and designs as part of a larger ODOT project design team for this safety and operations project near Mt. Hood. The project will widen and improve an approximate 2.8 mile section of highway and will include installation of median barrier. Chris is coordinating closely with ODOT geotechnical, environmental and maintenance team members.
- **Springwater Trail: Rugg Rd. to Dee St.**, ODOT, Clackamas County - *Project Manager*. Chris is leading designs under the ODOT LA program with Clackamas County to improve the last two unpaved miles of the Springwater Trail near Boring. Designs will include stormwater management and conveyance facilities, roadway/trail intersection safety improvements and paving the existing gravel trail.
- **Hwy 99W Median Water Quality Facilities Project,** Clean Water Services - *Assistant PM/Hydraulics Engineer*. This project, funded by ODOT's Stormwater Retrofit Program, will install water quality facilities within ODOT's right-of-way along Hwy 99W in the cities of King City and Tigard. Chris is leading the design and is performing multi-agency coordination with the project partners.
- **I-5 at I-205 Interchange Project,** ODOT - *Hydraulics Engineer*. Chris performed the water quality analysis including the Water Quality Technical Report and led the hydraulic design for this project. The water quality and flow control designs for the 17.9 acres of total contributing impervious area resulted in No Effect determination for listed aquatic species, critical habitat and essential fish habitat.
- **Bundle 314/316**, ODOT/OBDP, Ashland, OR - *Stormwater Engineer*. MSA performed utility coordination and stormwater management tasks for these bridge reconstruction and replacement projects in Ashland. Chris performed water quality reporting and designs in order to treat project runoff prior to it discharging into Bear Creek.
- **The Dalles Transportation Center - Environmental**, ODOT/MCCOG - *Lead Stormwater Engineer*
- **US26: Military Cr. – Salmonberry – Wolf Cr. Sec.,** ODOT - *Assistant Project Manager/Project Engineer*. Chris performed design work including geometric design of the new roadway alignment, stormwater management and drainage designs. Prior to Final PS&E, Chris coordinated the inclusion of 10 miles of additional project work into the final bidding package at ODOT's request.
- **US97 at Iris Lane**, ODOT, Culver, OR - *Assistant Project Manager*. Chris performed design work and developed PS&E documents for this project that included new right and left turn lanes, stormwater management, and storm drainage improvements.
- **US20: Philomath Couplet**, ODOT, Philomath, OR - *Staff Engineer*
- **I-5: Willamette River – Martin Creek**, ODOT - *Project Engineer*
- **OR140: N. Fork Little Butte Cr. – Green Springs Highway**, ODOT - *Project Engineer*

KEY STAFF RESUMES

Name & Title: **Pete Slocum, P.E., S.E., Structural Design Project Manager**

Name of firm (only if sub): **OBEC Consulting Engineers**

Role on this project: Bridge/Structural Lead

Active registration in Oregon (Y/N): Y
Discipline: PE/SE No. 58885

Education: MSCE, BSCE, San Jose State University

Years of experience in discipline/role proposed for this project: 21

Key Expertise: *Temporary Shoring, Retaining Walls, Sound Walls, Bridges, Sign/Signal Structures, Specialty Structures*

"I highly recommend OBEC for Agency projects. I have worked with them on various scopes of work for over 16 years. These projects have included fish passage work to new interchanges with bridges, walls, detention ponds, etc. The work has included numerous environmental and utility constraints in addition to a high degree of stakeholder involvement. In addition to representing the Agency professionally, OBEC is a good steward of the public trust and their dollars."
- Karl C. Wieseke, ODOT Construction Project Manager

Carmen Diversion Bridge

Experience on relevant projects: As an accomplished civil and structural engineer for more than 20 years, ***Pete Slocum, P.E., S.E.*** has extensive experience designing and checking transportation infrastructure projects with a focus on retaining walls, specialty foundations and sign/signal structures. His specialized experience has included the design of high-quality, cost-effective temporary shoring, retaining walls, sound walls, as well as bridges and specialty structures. He brings a range of expertise to many bridge types, including pre-cast and cast-in-place concrete, steel, and timber.

- **I-5: Capitol Highway – Willamette River Bridge Sec.,** ODOT - *Structural Lead* for new sign bridge and cantilever sign designs as a sub-consultant to MSA.
- **I-5 at I-205 Interchange Project,** ODOT, Wilsonville, OR - *Structural Lead* for new sign bridge and cantilever sign designs as a sub-consultant to MSA. See reference form.
- **OR213: I-205 Jughandle Project,** ODOT, Oregon City, OR - *Senior Project Engineer/Checker* for seven retaining walls: two soil nail walls, one tieback and soldier pile wall, two MSE walls, one modular block wall, and one cast-in-place concrete wall.
- **I-5: Beltline Interchange Structures,** ODOT, Lane County, OR - *Senior Project Engineer* for extensive mechanically stabilized earth (MSE) walls.
- **I-5: Wilsonville to Hayesville Interchange Design-Build,** ODOT, Clackamas/Marion Counties, OR - *Checker* for the retaining wall portion of this design-build bridge replacement project and provided the design concept for the shoring and temporary detour bridge.
- **Zigzag River Bridge,** ODOT, Clackamas County, OR - *Senior Project Engineer* for a new structure that includes a retaining wall to help minimize impacts to the River.
- **N. Yamhill River (Moores Valley Road) Bridge,** Yamhill County, OR - *Senior Project Engineer* for the replacement of a 200-foot-long bridge over the North Yamhill River. The project included retaining walls as part of the bridge and roadway design.
- **Summer Creek (Murray Boulevard) Bridge,** City of Beaverton, OR - *Senior Project Engineer* for this bridge supported by conventional segmental retaining walls.
- **Portland and Western Railroad ("L" Street) Bridge,** ODOT, Columbia City, OR - *Senior Project Engineer* for the award-winning replacement of a bridge over the P&W railroad, including a large retaining wall to overcome design constraints.
- **West Valley View Bridge,** Jackson County, OR - *Senior Project Engineer* for this new bridge that included retaining walls.
- **US101 and NE 52nd Street Intersection,** ODOT, Newport, OR - *Senior Project Engineer* for this traffic safety project that improved traffic circulation and utilized a retaining wall as part of the overall improvement.
- **Ferry Street Bridge and Overpass Project,** ODOT, Eugene, OR - *Project Engineer* for this fast-tracked roadway and bridge improvement project. Within a period of four months, OBEC prepared plans for six bridges, three bridge rehabilitations, two new cast-in-place curved concrete bridges, and five retaining walls.

KEY STAFF RESUMES

Name & Title: **Bret Elithorp, PLS, Senior Project Surveyor/Team Lead**

Name of firm (only if sub): OBEC Consulting Engineers

Role on this project: Survey Lead

Active registration in Oregon (Y/N): Y
Discipline: Land Surveying, PLS# 63148

Education: BS, Surveying, Oregon Institute of Technology

Years of experience in discipline/role proposed for this project: 14

Key Expertise: *Location, Recovery, Retracement, and Monumentation Surveys; Photo Control Survey Verification*

"In my opinion, OBEC Consulting Engineers is a very accomplished and competent surveying firm, and I have no hesitation in recommending them for public agency project consulting services."
- Pat McDougal, PE, PLS, Senior Associate Engineer, City of Lake Oswego

US 26: SE 111th to SE 176th

Experience on relevant projects: ***Bret Elithorp, PLS,*** has 14 years of experience in surveying. As Sr. Project Surveyor and Team Lead in OBEC's Lake Oswego office, Bret's expertise includes performing standard location, recovery, retracement, and monumentation surveys as well as photo control survey verification. His experience also includes using GPS and conventional surveying techniques to establish and work in local datum plane coordinate systems. He has surveyed numerous public works projects from initial location survey through construction.

- **US26: SE 111th to SE 176th**, ODOT, Portland, OR - *Project Surveyor/Task Lead.* As a subconsultant to MSA, Bret led the survey work, including survey research; site reconnaissance; setting of horizontal and vertical control monuments; collecting GPS observations; running of digital level loops; processed and adjusted the control network; setting of aerial premarks; topographic survey – field work; confidence point collection and running of the confidence point report; monument recovery; merged field collected data with the data from aerial photography; drafting of topographic base map and creation of the final digital terrain model (DTM); drafted Horizontal Control, Monument Recovery and Retracement Survey for recording; preparation of descriptions and exhibit maps for right-of-way acquisitions.
- **US26: Military Cr- Salmonberry-Wolf Cr.**, ODOT - *Project Surveyor/Task Lead.* As a subconsultant to MSA, Bret led the survey work, including survey research; site reconnaissance; supplementing the existing horizontal and vertical control network with additional control monuments; topographic survey – field work; confidence point collection and running of the confidence point report; monument recovery; merged field collected data with existing Agency survey data; drafting of topographic base map and creation of the final digital terrain model (DTM); drafted Horizontal Control, Monument Recovery and Retracement Survey for recording; preparation of descriptions and exhibit maps for right-of-way acquisitions.
- **I-5 at OR214 Interchange (Woodburn) SUE,** ODOT, Woodburn, OR - *Project Surveyor/Task Lead.* As a subconsultant to MSA, OBEC is performing topographic survey to supplement previous Agency-prepared survey and to locate utility test holes performed by MSA.
- **Sunrise Corridor JTA (PE)**, ODOT, Portland, OR - *Project Surveyor/Team Lead.* This project involved survey research; site reconnaissance; supplementing the existing horizontal and vertical control network with additional control monuments; running of digital level loops; processing and adjusting the new the control monuments; topographic survey – field work; confidence point collection and running of the confidence point report; merging newly collected field data with the existing ODOT data; drafting of topographic base map and creation of the final digital terrain model (DTM); drafting ODOT right-of-way Roll Map; preparing descriptions and exhibit maps for right-of-way acquisitions; field staking of the acquisition parcels.
- **OR217 Active Traffic Management Project (PE)**, ODOT, Portland, OR - *Project Surveyor/ Team Lead*
- **OR213: I-205 – Redland Road Overcrossing**, ODOT, Oregon City, OR - *Project Surveyor/ Team Lead*

KEY STAFF RESUMES

Name & Title: Scott M. Schlechter, P.E., G.E., Associate

Name of firm (only if sub): GRI

Role on this project: Geotechnical Lead

Active registration in Oregon (Y/N): Y

Discipline: Civil/Geotechnical Engineer

Education: BS/MSCE, Oregon State University

Years of experience in discipline/role proposed for this project: 12/8

Key Expertise: *Seismic Design, Deep Foundations, Soil Structure Interaction, Retaining Structures*

ODOT sincerely appreciates GRI's outstanding and ahead of schedule delivery of this report for a set of complex subtle geological and geotechnical issues. Your ability to meet our demanding schedule was done so with excellent client service, great communication, and without safety or environmental incident in a high traffic, ecologically sensitive area. Well done!"

- Joe Squire, PE, ODOT Work Order Manager
Simpson Creek Curves Realignment

Simpson Creek Curves Realignment, ODOT

Experience on relevant projects: ***Scott Schlechter, P.E., G.E.*** has 12 years of transportation experience with GRI in the Pacific Northwest and leads GRI's earthquake engineering group. He led or is currently leading seismic and foundation studies or construction-phase services for the following projects:

- **OR Hwy 18 Newberg-Dundee Bypass, Phase I,** ODOT, Yamhill County, OR - *Lead Geotechnical Engineer*. Scott is leading the interdisciplinary ODOT/consultant design team to analyze geotechnical, landslide, and seismic hazards for the proposed 4-mile-long alignment, which includes 11 bridges and a 1,500-ft-long MSE wall. GRI is serving as the geotechnical engineer of record for five of the bridges. State-of-the-art cyclic testing and numerical modeling concluded the liquefaction potential of on-site Willamette Silt soils is low during the design-level earthquake, thereby saving substantial mitigation costs.
- **US20, Simpson Creek Curves Realignment,** ODOT, Lincoln County, OR - *Senior Engineer*. Project is located between MP 14.5 and 16.3 and included new roadway alignment, retaining walls, new bridge over Simpson Creek, two large cuts up to 150 ft high into sedimentary rock, repair of two landslides, and a large soil-nail wall. GRI was responsible for geotechnical engineering and preparation of construction documents for landslide repair, and soil-nail and tied-back soldier pile retaining structures. All work was completed in four months to qualify for federal funding.
- **ODOT/OBDP Bundle 224, I-84 East Hood River Interchange Reconstruction,** ODOT, OR - *Senior Engineer*. GRI provided geotechnical, seismic, and pavement design services for reconstruction of the I-84 at Highway 35 interchange. The existing three-span bridge was replaced with a 100-ft-long single-span bridge. New mechanically stabilized earth walls up to 23 feet high retain the sides of the abutment fill. Scott worked closely with ODOT and the structural design team to design foundations to resist seismically induced deformations and eliminate the need for costly ground improvement.
- **I-84, OTIA Bundle 206 Bridge Replacement,** ODOT, Morrow and Union Counties, OR - *Lead Geotechnical Engineer*. GRI assisted with design and construction of two I-84 bridge improvement/replacement projects. The Union County site was analyzed for single-span and three-span bridge configurations with complex construction considerations regarding clearances of existing retaining walls and embankment fills. The steep basalt profile and boulder and cobble fills required analysis of multiple foundation options and retaining wall configurations, including micropiles, driven H-piles, and drilled shafts, MSE retaining walls, and tied-back soldier pile and lagging walls.
- **US Hwy 58, UPRR Bridge Replacement, OTIA Bridge Bundle 106,** ODOT, Lane County, OR - *Senior Engineer*. GRI provided geotechnical services for a 350-foot-long, three-span bridge replacement over the UPRR rail lines. Design services included analysis of multiple bridge foundation and retaining wall configurations for the highly skewed alignment. The investigation addressed driven H-piles, drilled, cast-in-place piles, drilled piers using SHAFT, lateral pile design using L-Pile, slope stability using SLOPE/W, retaining walls, embankments, and seismic design considerations.

KEY STAFF RESUMES

Name & Title: Alexis Casey, Biologist

Name of firm (only if sub): Mason, Bruce & Girard, Inc.

Role on this project: Environmental Lead

Active registration in Oregon (Y/N): Y

Discipline: ODOT Biological Assessment Certificate of Qualification, 2009 Re-certified

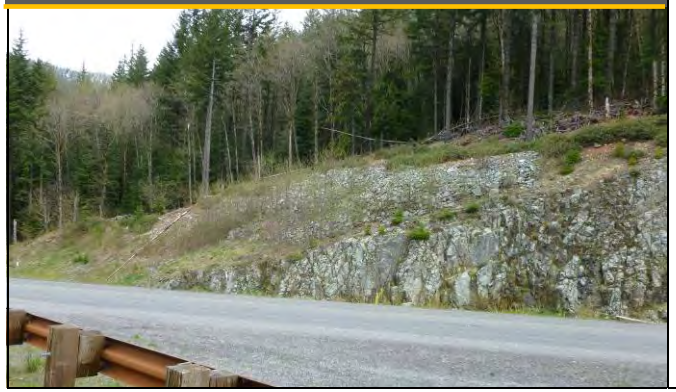
Education: B.S., Resource Management, University of California at Berkeley

Years of experience in discipline/role proposed for this project: 8

Key Expertise: *Rare and Invasive Plant Surveys; Fish and Wildlife Species and Habitat Surveys; Wetland Delineation/Permitting; Endangered Species Act (ESA) Compliance*

"I have been impressed by the high-quality work performed by MB&G's staff during the past twelve-years. I would recommend them to any entity that needs services in the field of environmental permitting, monitoring, aquatic biology or fish passage."
–Greg Apke, Statewide Fish Passage Program Leader, Oregon Department of Fish and Wildlife

US26: MP 49.2 to MP 57.45 (Safety Improvement) Project, ODOT



Experience on relevant projects: ***Alexis Casey*** conducts rare and invasive plant surveys and wildlife surveys; assesses impacts of development activities on wildlife, fish, and plant species listed under the federal ESA; and assists with wetland, fisheries, and habitat mapping. She was co-located on-site at Clean Water Services (CWS) for several months on the environmental review team, where she assisted with Environmental Plan Review and a variety of other environmental project needs. For one year, she worked directly for Oregon Department of Transportation (ODOT) Region 1 as a biologist. She was responsible for analyzing and documenting the impacts of projects and other department activities on federal and state listed species, biological systems, habitats and functions.

- **Springwater Trail: Rugg Road to Dee Street,** ODOT/Clackamas County, subconsultant to MSA, Clackamas County, OR - *Environmental Project Manager.* Currently managing multiple environmental tasks for the proposed improvements along the last remaining unimproved section of the Springwater Corridor. Tasks include preparation of a Joint Permit Application for submittal to the DSL and USACE, preparation of a Standard Local Operating Procedures for Endangered Species IV (SLOPES) to address potential project impacts to listed fish species, and preparation of a botanical clearance report and No Effect Memorandum to meet ODOT standards.
- **I-5 at I-205 Interchange,** ODOT, subconsultant to MSA, Washington County, OR - *Environmental Project Manager/Project Biologist.* Conducted a wetland/waters delineation and environmental site evaluation for a proposed auxiliary lane project along northbound I-5 near the I-205 interchange. Prepared a No Effect Memorandum Report and a Botanical Clearance Report for the proposed project.
- **US26: MP 49.2 to MP 57.45,** ODOT Region 1, Clackamas County, OR - *Assistant Environmental Project Manager.* Prepared USFS Biological Evaluations (Wildlife, Botanical, and Aquatics) for a large safety improvement project located between Rhododendron and Government Camp, Oregon. Prepared re-evaluation report evaluating the consistent validity of the proposed project with the 1998 *Mt. Hood Corridor EIS.* Prepared ESA compliance documents including a Biological Assessment (BA) for northern spotted owls and a programmatic BA for fisheries.
- **The Dalles Transportation Center - Environmental**, ODOT/MCCOG, subconsultant to MSA, The Dalles, OR - *Environmental Project Manager.* Prepared a No Effect Memorandum for this proposed transit facility/transportation center in The Dalles.
- **Market St. NE/Swegle Rd. NE Corridor Improvement Project,** City of Salem, OR - *Environmental Project Manager.* Currently managing multiple environmental tasks for the proposed improvements along Market St NE and Swegle Rd NE in eastern Salem. Tasks include a wetland delineation and preparation of a Joint Permit Application for submittal to the DSL and USACE, preparation of a Standard Local Operating Procedures for Endangered Species IV (SLOPES) to address potential project impacts to listed fish species, preparation of a fish passage plan for ODFW, and management of the cultural resource subcontractor.

KEY STAFF RESUMES

Name & Title: Leslie Finnigan, Western Regional Manager

Name of firm (only if sub): Universal Field Services, Inc.

Role on this project: Right-of-Way Lead

Active registration in Oregon (Y/N): Y

Discipline: Principal Real Estate Broker

Education: Elementary Education – Western Oregon University (4 years)

Years of experience in discipline/role proposed for this project: 26

Key Expertise: *Thorough understanding of the acquisition and relocation assistance processes in accordance with laws and regulations; Skilled Negotiator & Relocation Specialist; Excellent communication skills, both written and oral; Detail oriented; Diligent to project success needs*

"UFS is our go-to right-of-way services company. We have used many companies over the years and have found UFS to be the most thorough and capable of pulling through on either small projects or large ones. Our current project is very complex for acquisition and relocations. UFS has done a great job to getting issues solved, properties purchased and owners and tenants successfully relocated." - Jon Baker, Tri-Met (Retired)

North Interstate Bridge

Experience on relevant projects: ***Leslie Finnigan*** is involved in all phases of the land acquisition and relocation process in a management capacity. She brings over 26 years of experience to any project that Universal works on. Prior to working for Universal, Leslie was a Senior Right-of-Way Agent and Project Manager for Oregon Department of Transportation's Right-of-Way Section. Leslie was employed at Washington County for two years where she was a Right-of-Way Project Manager for several of their projects. As the Regional Manager and a Project Manager for Universal, she has project oversight and quality control on all projects in the Region.

- **5th Street Improvements,** City of Woodburn, OR - *Right-of-Way Project Manager.* Universal was a subconsultant to MSA for this street improvement project. Universal secured 23 rights-of-entry for this project for work on private property including driveway connections, retaining wall relocations and fence relocations.
- **US20: Philomath Couplet**, ODOT, Philomath, OR - *Right-of-Way Project Manager*. Universal worked on the early phases of this project, obtaining rights of entry, attending project team meetings and providing right-of-way cost estimates. Leslie worked closely with MSA during these early phases to develop and implement early ROW strategies for the 69 total files.
- **US101: Alsea Bay Bridge -Wm. Keady Wayside**, ODOT, Waldport, OR - *Right-of-Way Project Manager*. As part of a multi-discipline team led by MSA, Universal provided ROW services for 12 total files on this Transportation Enhancement project in the heart of downtown Waldport. Universal worked closely with the MSA roadway designers during negotiations and acquisitions, communicating weekly to coordinate the right-of-way with the ongoing design.
- **Jasper Trunk Sewer,** City of Springfield, OR - *Project Oversight.* Universal worked with MSA on this sewer line project for the City. Acquired easements from seven properties located outside the city limits but within the urban growth boundary which made these more complex.
- **Columbia River Crossing – Consulting Services,** Portland, OR/Vancouver, WA - *Project Oversight.* Universal has been involved in the Columbia River Crossing for five years, providing early right-of-way involvement at public meetings, preparing cost estimates and providing knowledge of the right-of-way process to the CRC.
- **OR213–I-205, Redland Road,** City of Oregon City, OR - *Project Oversight.* Universal was responsible for all phases of the right-of-way process for this project. There were four properties involved for this high profile project.
- **Munger Creek Bridge - Josephine County** - *Project Oversight.* Universal provided right-of-way services for the replacement and widening of this bridge on Munger Creek. There was one relocation involved that required extra assistance because of unusual circumstances.
- **Portland Milwaukie Light Rail,** TriMet - Corporate Oversight
- **Hawthorne-Hyacinth Project,** City of Salem - Corporate Oversight
- **99W–Territorial Hwy, Monroe,** ODOT - Project Manager
- **Highland-Glacier Couplet, Redmond,** ODOT - Project Manager
- **OR204-Elgin City,** ODOT - Project Manager

KEY STAFF RESUMES

Name & Title: Jeanne Lawson, Principal

Name of firm (only if sub): JLA Public Involvement

Role on this project: Public Involvement Lead

Active registration in Oregon (Y/N): N/A

Discipline:

Education: Southern Oregon University (coursework)

Years of experience in discipline/role proposed for this project: 30

Key Expertise: *Community Relations, Public Involvement Program Design & Management, Strategy, Meeting Design & Facilitation, Stakeholder And Public Values Identification And Analysis*

"I have had the opportunity to work with Jeanne in the facilitation of numerous advisory and policy committees. Her guidance in the selection and development of each committee and its charter, the decision strategies, as well as her commitment to working individually with each member, has been the key to successful outcomes for very diverse and difficult issues." – Jerri Bohard, ODOT Interim Deputy Director for Operations

Sunrise Project, I-205 to Rock Creek Junction Public Hearing, ODOT

Experience on relevant projects: ***Jeanne Lawson*** has unmatched experience in community relations, focused on designing and managing comprehensive public involvement programs. Jeanne has a strong reputation for developing effective public involvement and information programs on a wide range of public planning, policy and siting efforts, with a particular emphasis on transportation and water resources. Projects have ranged from neighborhood specific to large statewide and bi-state programs.

- **US20: Philomath Couplet,** ODOT Region 2 and City of Philomath, OR - *Public Involvement Senior Strategist.* As a subconsultant to MSA, Jeanne designed and implemented a successful public involvement program for this highly contentious and complicated design project through the City of Philomath. Community opposition to aspects of the project and turnover in the makeup of City Council threatened to upend the project at a key decision point. Issues included local access, business visibility, parking, right-of-way impacts and freight traffic. JLA developed a customized outreach strategy, formed and facilitated an Advisory Group, designed and facilitated large public meetings, developed targeted public information materials and conducted a door-to-door survey that gave the local decision makers the information they needed to overcome the obstacles and move the project forward successfully. This project has been recognized in the transportation community as a highly successful example of a polarized community coming to consensus through innovative public involvement.
- **Oregon Passenger Rail,** ODOT - *Public Involvement Senior Strategist.* Providing strategy guidance needed to maintain an integrated conversation that builds towards consensus for this 125-mile corridor planning effort. The project will select a passenger rail route between Portland and Eugene, as well as a variety of other system improvements. Jeanne facilitates the project's 50-member Corridor Forum, and provides specialized needs of this project including dispute resolution and decision making and consensus building strategies.
- **State Transportation Improvement Program (STIP) and Least Cost Planning Committee,** ODOT - *Meeting Facilitator.* Currently providing high-level meeting facilitation for a committee overseeing the criteria for the selection of projects to be included in the next update to the STIP. At the project's onset, Jeanne conducted interviews with each committee member and chartered the group.
- **Sunrise Project, I-205 to Rock Creek Junction Supplemental EIS,** ODOT Region 1 and Clackamas County - *Public Involvement Senior Strategist.* Designed and managed the comprehensive public involvement program for this NEPA process for a new limited access highway between I-205 and Rock Creek Junction in Clackamas County, as well as a variety of other system improvements. Jeanne was involved with this project for over 20 years; beginning with her lead in the public involvement effort for the early DEIS during the 1990s. The resulting preferred alternative has wide community support.

Other relevant projects:

- **Astoria/Warrenton Regional Refinement Plan – ODOT Region 2 and Cities of Astoria and Warrenton** - *Public Involvement Senior Strategist*
- **Flexible Fund Program Advisory Committee, OTC** - *Public Involvement Senior Strategist*
- **Van Buren St. Br. Replacement – ODOT/City of Corvallis** - *Public Involvement Senior Strategist*

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Key Staff Resumes for CA/CEI Services

Proposing Firm Name: Murray, Smith & Associates, Inc. **; RFP #: 25134**
RFP Title: Full-Service A&E Price Agreements for ODOT and Local Agency Transportation Projects

Name & Title: Kevin Thelin, P.E., Vice President

Name of firm (only if sub):

Role on potential project assignments: Project Manager

Years of experience in proposed role: 26

Key Expertise: *Construction Management and Administration; Project Management; QA/QC; Permitting; Technical Reporting; Safety Improvements; Street & Utility Improvements; Pedestrian and Bicycle Oriented Improvements; Downtown Plan Improvements; Design Criteria Management & Design Exceptions; Geometric Design; Stormwater Management; Subsurface Utility Engineering; Public Involvement*

"I just wanted to take a moment and compliment MSA on the professional manner in which you have managed the ODOT review period and moved the project forward [as] firmly and diplomatically as possible. Your close attention to administrative flow and proactively providing critical information … to ODOT staff has literally saved months of review time and confusion." - Dan Brown, Public Works Director, City of Woodburn

5th Street Improvements, City of Woodburn, OR

List Active Certification(s), Certification Number(s) and previous role(s) on relevant projects:

Kevin Thelin, P.E., Oregon PE #19,313, joined MSA in Portland in 1993 and was named a firm principal in 2002. He has a wide variety of construction and engineering experience and expertise, including construction management, street improvements, bicycle and pedestrian improvements, and stormwater treatment and conveyance facilities planning and design. Kevin currently leads our transportation team.

- **Highway 47, Azalea Street-2nd Street**, ODOT, Yamhill, OR - *Assistant Project Manager*. We provided complete construction oversight (contract administration, construction engineering, and inspection services) and full design engineering for this project. Project included pavement reconstruction, new pedestrian facilities including sidewalks and a crosswalk with a flashing pedestrian signal.
- **5th Street Improvements**, City of Woodburn, OR - *Principal-in-Charge*. We provided construction support services and led the preliminary and final design efforts for this street modernization and pedestrian improvements project. In changing 5th Street from a local neighborhood road to an access street with anticipated higher volumes of traffic, we put an emphasis on pedestrian-friendly roadway design.
- **I-5: Capitol Highway – Willamette River Bridge Sec.,** ODOT - *Project Manager*. Kevin led construction support services for the ODOT construction engineering and inspection team and the design work and multiple environmental and design support studies for the DAP and Final PS&E packages. This project included several Agency requested project additions on a fast-track schedule.
- **Downtown Utility Undergrounding and Streetscaping**, City of Sandy, OR - *Principal-in-Charge*. We completed construction administration, preliminary engineering, and final designs for this utility undergrounding, downtown streetscape/pedestrian enhancement and traffic signal installation project located on the **US26** couplet in the city of Sandy, Oregon. Close and consistent coordination with multiple utilities, ODOT, the City and the public throughout the construction and design phases was essential to meet the project goals.
- **Stowers Road Improvements**, City of Molalla, OR - *Principal-in-Charge*. We recently completed fast-track construction support services and designs for new ADA compliant sidewalks, curb gutter and full-depth pavement improvements for this limited budget project.
- **US 20: Philomath Couplet**, ODOT, Philomath, OR - *Project Manager*. Kevin provided support services to the ODOT construction engineering and inspection team and led the design efforts for the reconstruction of an approximately 1.5-mile long section of US 20/OR 34 through the center of the City of Philomath. He also led the utility coordination and relocation work associated with this project.
- **I-5 at I-205 Interchange,** ODOT - *Project Manager*.

Key Staff Resumes for CA/CEI Services

Name & Title: William Hollings, P.E., Principal Engineer

Name of firm (only if sub):

Role on potential project assignments: Project Manager

Years of experience in proposed role: 36

Key Expertise: *Construction Management and Administration, Project Management, Construction Feasibility Analyses, DAP and PS&E Development, Street, Highway, and Pedestrian Facility Design, QA/QC, Railroad Coordination*

"Bill is a great project manager. Invoices and status reports are prompt; he adapts and responds quickly to scope and schedule changes. He is extremely efficient in meetings, and works well with Agency staff." – Stephanie Serpico, former ODOT Agency Program Manager

US 20: Philomath Couplet

List Active Certification(s), Certification Number(s) and previous role(s) on relevant projects: ***Bill Hollings, P.E.***, ***Oregon PE # 13,265,*** an MSA principal engineer and our Springfield office manager, joined MSA in 2000 and was named a firm associate in 2005. Bill has 36 years of experience in the heavy civil and construction engineering field and has served in key project management, design, and construction management roles for a large variety of road and highway improvement projects for ODOT and other local municipalities. Bill is a highly practical, no-nonsense engineer with proven field experience in challenging construction conditions. He is intimately familiar with ODOT's construction engineering systems and requirements, including all final documentation requirements for auditable contract administration payment documentation systems and construction quality assurance plans.

- **I-5: Willamette River - Martin Creek,** ODOT - *Project Manager*. Bill managed construction services and design work for this "3R" pavement preservation project. We provided support services to the ODOT construction engineering and inspection team.
- **OR47: Azalea St. – 2nd St. (Yamhill)**, ODOT, Yamhill, OR - *Project Manager/Quality Control Compliance Specialist (QCCS)*. Bill oversaw and documented all required field testing and placement of construction materials, responded to contractor requests for information, supervised MSA's field inspector, and was the primary liaison between ODOT, the City of Yamhill, the contractor, Yamhill County and the general public. He led and documented weekly construction meetings with the contractor, the City and other interested parties.
- **OR140: North Fork Little Butte Creek – Green Springs Highway**, ODOT, Jackson and Klamath Counties, OR - *Project Manager*. Bill was the overall project manager for this three-phase pavement preservation project on 31 miles of Lake of the Woods Highway. We provided construction support services as well as complete design engineering and permitting services for all three phases of the project.
- **US20: Philomath Couplet**, ODOT, Philomath, OR - *Project Manager*. Bill led the development of plans, specifications and estimate during design which enabled him to effectively lead the construction phase of the project. The project included the realignment of a two-way 1.5-mile long section of US20/OR 34 through the center of the City of Philomath into a one-way couplet.
- **US101: Alsea Bay Bridge – William Keady Wayside**, ODOT, Waldport, OR - *Project Manager*. Bill led the construction support and design efforts for this project that included sidewalks, roadway reconstruction and paving, traffic signal replacement and utility undergrounding.
- **US26: Military Cr. - Salmonberry - Wolf Cr.,** ODOT - *Project Manager*. Bill provided senior level construction support and review and QA/QC for all design documents for this project, which improved highway geometry and safety by realigning a section of US26 near the summit of the Oregon Coast Range. The design work included geotechnical explorations, environmental assessments, right-of-way acquisition, stormwater management, and geometric design of the new roadway alignment.

Key Staff Resumes for CA/CEI Services

Name & Title: Gabe Crop, P.E., Civil Engineer, Associate

Name of firm (only if sub):

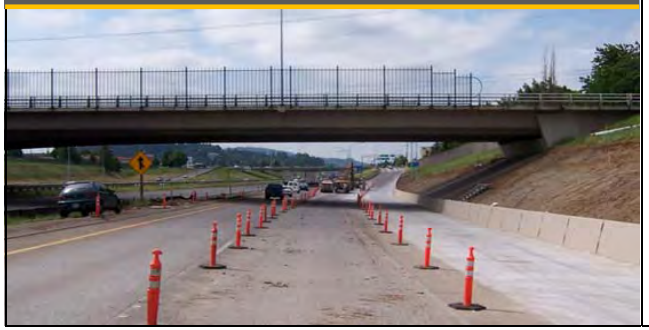
Role on potential project assignments: Project Coordinator/ Quality Manager

Years of experience in proposed role: 10

Key Expertise: *Construction Inspection & Documentation; Transportation Planning & Geometric Design; Safety Improvements; Pedestrian Facilities; ODOT Coordination; Traffic Control; Pavement Design; Guardrail & Barrier Evaluations*

"From my perspective as the CPM, Kevin Thelin, Troy Bowers, and Gabe Crop set the standard for project management and project delivery. At least once on each of my other projects I found myself thinking how much more smoothly the project would be going if MSA were on board. Kevin, Troy, and Gabe demonstrated a great attention to detail, were forward thinking, and truly fit the role of 'augmenting ODOT staff' (i.e. they operated seamlessly with the ODOT reviewers)…" – Tom Braibish, former ODOT CPM, current ODOT Region 1GeoHydro Sec. Mngr., ODOT

I-205: East Portland Freeway at Glisan St. & Park Place – CRCP Ramp Widening Under Burnside Bridge



List Active Certification(s), Certification Number(s) and previous role(s) on relevant projects:

Gabe Crop, P.E., Oregon PE # 70,713, joined MSA in 2002 and has served in a variety of planning, design and construction administration/engineering/inspection roles on several street and highway improvement projects. He has practical hands-on ODOT-specific field experience on many projects, knows the ODOT/APWA Specifications book forward and backward. He identifies issues and potential problems very early by immersing himself in the project details so that he can stay two steps ahead of the construction contractor. Gabe recently participated in a joint committee to develop a comprehensive consultant evaluation form for CA/CEI services and understands where greater attention is needed to successfully deliver CA/CEI services. Gabe's ODOT certification number is 43662. His certifications include:

- **General Inspector (CGI, pending challenge exam results)**
- **Traffic Signal Inspector (CTSI)**
- **Environmental/Erosion Inspector (CECI, renewing Spring 2013)**
- **Embankment Technician (CEbT, pending test results)**

- **I-5: Capitol Hwy. – Willamette River Bridge**, ODOT - *Project Coordinator*. Gabe provided construction support services including submittal review for over 200 submittals, schedule review for work over three years, weekly meeting participation, design changes and consultation for various questions that arose and completed the design requirements for multiple project elements for this comprehensive freeway project.
- **5th Street Improvements**, City of Woodburn, OR - *Project Manager/Quality Manager*. Gabe's construction management work included comprehensive submittal review, IGA development with ODOT and successive required signal inspection as a certified signal inspector, answering construction questions and other support tasks as requested by the City. He also managed all design aspects of this modernization project for the City to upgrade 5th Street.
- **I-5 at I-205 Interchange,** ODOT - *Project Coordinator*. Gabe completed and managed multiple construction management and design requirements for this project to add a NB lane on I-5. He reviewed submittals, provided consultation to the ODOT Construction Office, and was the engineer of record for multiple sheets (104) and specifications,.
- **OR47: Azalea St. – 2nd St. (Yamhill)**, ODOT - *Inspector*. Gabe served as full-time inspector and completed designs. He coordinated daily with City of Yamhill public works staff and the Contractor, and kept meticulous records for this interagency project.
- **2005 Region 1 ATMS Ramp Meters (Phase 7) and I-205: East Portland Freeway at Glisan St & Park Place,** ODOT - *Inspector*. Gabe designed and provided construction inspection for these ramp widening and metering projects for seven ramps on I-205. As daily inspector, Gabe worked under the supervision of ODOT Construction Office staff and was responsible for project documentation to meet federal requirements.
- **Pedestrian Signal Improvements,** City of Sandy, OR - *Project Coordinator/Inspector*. Gabe served as inspector and project engineer for two new signals, including geometric curb extensions, in Sandy to improve pedestrian crossings. Work included coordination with ODOT for approval.

Key Staff Resumes for CA/CEI Services

Name & Title: Chris Link, P.E., Civil Engineer, Associate

Name of firm (only if sub):

Role on potential project assignments: Project Coordinator/Quality Manager

Years of experience in proposed role: 8

Key Expertise: *Construction Engineering and Support; Roadway Geometric Design; InRoads Modeling; Design Exceptions; Specifications; Cost Estimating; Traffic Control & Staging; Signing; Striping; Bicycle & Pedestrian Improvements; Stormwater Management & Design; Erosion Control*

"The overall quality of the information provided is excellent, clearly defining each element and impact…It's a great document, full of excellent information. Thank you for giving me this opportunity to see and review such a fine piece of work" – Don Morris, TCP Designer regarding the project TMP and Chris' staging plans for the I-5: Willamette River – Martin Creek project

I-5: Willamette River - Martin Creek, ODOT

List Active Certification(s), Certification Number(s) and previous role(s) on relevant projects: ***Chris Link, P.E., Oregon PE #74,338,*** joined MSA in 2005 after working as a roadway designer for WSDOT and was named a firm associate in 2010. He has served in a variety of project management, design and construction administration roles on several ODOT modernization, safety, transportation enhancement and preservation projects. Chris is a skilled designer particularly experienced in developing InRoads roadway designs. His knowledge of ODOT specifications and design standards will allow him to ensure project elements are completed in accordance with ODOT expectations. Chris is currently scheduled to take ODOT's Certified Aggregate Technician class to become certified.

- **OR140: N. Fork Little Butte Cr. – Green Springs Highway**, ODOT - *Project Coordinator*. Chris was the primary contact with ODOT construction staff, providing grading cutsheets, reviewing submittals, responding to questions, and documenting as built conditions. He also performed the designs for the project including widening the highway to accommodate new left turn lanes at two locations, pavement rehabilitation, roadside safety upgrades, and storm drainage.
- **I-5: Willamette River – Martin Creek**, ODOT - *Project Coordinator*. Chris coordinated closely with ODOT R2 and R3 Technical Services, ODOT Pavement Section staff and R3 construction staff throughout project construction and design phases for this pavement preservation project. During construction, he coordinated directly with the lead inspector and assistant project manager to respond to inquiries, review submittals, review change requests, and document as-builts. He led the design of the project, including development of the traffic control, staging and detours plans.
- **US101: Alsea Bay Bridge – Wm. Keady Wayside (Waldport)**, ODOT, Waldport, OR - *Project Coordinator*. Chris developed the electronic roadway model and cutsheets used for construction and coordinated our construction support effort with ODOT staff. He worked closely with ODOT construction staff and utility owners to incorporate their relocations into the overall construction project.
- **US20: Philomath Couplet**, ODOT, Philomath, OR - *Project Coordinator*. Chris' work included construction engineering support, developing specifications, estimating, roadway design, and utility conflict analysis. He developed the electronic roadway model and cutsheets used for construction and responded to inquiries from ODOT construction staff.
- **US26: Military Cr. – Salmonberry – Wolf Cr.,** ODOT - *Project Coordinator*. Chris provided support to ODOT construction staff and performed design work including geometric design of the new roadway alignment, traffic control, staging, and stormwater management. He interfaced directly with the lead inspector and assistant PM, providing grading cutsheets, responding to inquiries, reviewing submittals, and reviewing change requests.
- **US97 at Iris Lane**, ODOT, Culver, OR - *Project Coordinator*. Chris was the primary interface with Region 4 construction staff during project construction. He performed design work and developed PS&E documents for this project which included new right and left turn lanes, stormwater management and storm drainage improvements.
- **Stowers Road Improvements**, City of Molalla, OR - *Project Coordinator*. Chris provided construction administration and design for this fast-track project which included pavement reconstruction, new curb, sidewalk, ADA ramps, storm drainage and waterline improvements. He led weekly construction meetings, reviewed submittals and pay apps, and responded to inquiries.

Key Staff Resumes for CA/CEI Services

Name & Title: Gwen Linscheid, P.E., Civil Engineer

Name of firm (only if sub):

Role on potential project assignments:
Inspector/Construction Designer

Years of experience in proposed role: 6

Key Expertise: *Construction Inspection & Documentation; Construction Engineering; Stormwater Conveyance & Management Design; Traffic Control, Roadway Modeling; Utility Coordination; Erosion Control*

I-5 @ I-205 Interchange

List Active Certification(s), Certification Number(s) and previous role(s) on relevant projects:

Gwen Linscheid, P.E., Oregon PE #78,547, joined MSA in 2006 and has served in a variety of construction support, analysis, design, and planning services on highway improvement projects that include transportation enhancements, stormwater repairs and water quality facilities. Her project documentation, organizational skills, and attention to detail promote clear understanding and project intents. Gwen's ODOT certification number is 44404. Her certifications include:

- **Drilled Shaft Inspector (CDSI)**
- **Concrete Technician (QCT, pending, class scheduled for Spring 2013)**

- **I-5: Tualatin River – Willamette River Bridge Sec.,** ODOT - *Inspector*. Gwen provided full-time construction inspection services under the direction of the ODOT Construction Office. She worked closely with ODOT Construction Managers and the Contractor to make design changes, resolve quality issues and complete detailed inspection reports for over 280 drilled shaft foundations. Gwen also participated in weekly construction meetings, assisted with review of the project's over 200 submittals and prepared the complete set of as constructed plans. She was the lead designer for this preservation project, performing a comprehensive evaluation of the existing storm sewers, completing roadway modeling for the auxiliary lane and other shoulder widening, and assisted with storm sewer, guardrail and barrier and traffic control design.
- **2012 Pavement Improvements Project,** City of Oregon City - *Inspector*. Gwen provided inspection services for this street rehabilitation, maintenance paving and ADA improvements project. She was also the lead designer, completing design on an extremely fast-track schedule to accommodate construction within the August/September paving season.
- **I-5 at I-205 Interchange Project,** ODOT- *Construction Designer*. During construction, Gwen assisted with submittal review and providing support to the ODOT field office. She also performed the roadway modeling for the new auxiliary lane, completed design of safety features and assisted with traffic control and storm sewer design.
- **US101: Alsea Bay Bridge – William Keady Wayside**, ODOT - *Construction Designer*. Gwen provided consultation and design modifications during construction of this Transportation Enhancement project that included new sidewalks, streetscaping, and other pedestrian improvements.
- **US20: Philomath Couplet,** ODOT - *Construction Designer*. Gwen completed as-constructed drawings and assisted with a post-construction inspection of this modernization project.
- **US26: Military Cr. - Salmonberry Road - Wolf Cr.,** ODOT- *Construction Designer*. Gwen assisted in the development of preliminary design plans for this project that improved the horizontal alignment and safety of the horizontal curves within the project limits. Gwen served as the traffic control designer and assisted with the stormwater management plan and storm system design.
- **Division Street Reconstruction Project,** PBOT, Portland, OR - *Construction Designer*. This Green Streets project will construct streetscaping, sidewalk, storm drainage, and sanitary sewer improvements on Division Street between SE 10th and 39th Avenue. Gwen provided project-wide utility coordination and relocation designs for BES sanitary sewer facilities on this project.

Key Staff Resumes for CA/CEI Services

Name & Title: Brendan O'Sullivan, P.E., Civil Engineer

Name of firm (only if sub):

Role on potential project assignments: Inspector

Years of experience in proposed role: 8

Key Expertise: *Construction Inspection; Construction Management; Stormwater System Analysis; Stormwater Drainage Design; Trenchless Technology; Transportation Planning & Geometric Design; Utility Conflict Analysis; Environmental Permitting; Cost Estimating*

Roadway Improvements - City of Sherwood, OR

List Active Certification(s), Certification Number(s) and previous role(s) on relevant projects:

Brendan O'Sullivan, P.E., Oregon PE #75,681, joined MSA in 2005 and has served in a variety of construction administration planning, and design roles on several street and highway improvement projects that include streetscape improvements, pedestrian enhancements, stormwater management, sewer rehabilitation and utility coordination. Brendan's ODOT certification number is 43911. His certifications include:

- **HMAC Inspector (HMAC)**
- **General Construction Inspector (CGI)**
- **Certified Density Technician (CDT, pending, class scheduled for Spring 2013)**

- **Roadway Improvements – Water Supply Improvements Project,** City of Sherwood, OR - *Inspector*. Brendan recently performed extensive construction management, field observation services, and design. The project included 3.5 miles of full width street improvements, sidewalks, street lighting, streetscaping, on-street parking, storm drainage improvements, and utility undergrounding, in addition to 18,500 feet of 48-inch diameter water transmission main, a 4.0 mg concrete reservoir, 2.0 mg reservoir upgrades, and a booster pump station.
- **2012 Pavement Improvements Project,** City of Oregon City - *Inspector*. Brendan completed inspection and administration of $1,200,000 of street rehabilitation, maintenance paving and ADA improvements.
- **US 20: Philomath Couplet,** ODOT, Philomath, OR - *Inspector*. Brendan assisted with on-call construction support and the development of final plans, specifications and estimates for the US 20: Philomath Couplet project for ODOT. His role included on-call inspection, contractor coordination and construction support, water quality facility design, erosion control design, cost estimating, plans development, and subconsultant coordination. This project included extensive sidewalk construction, ADA and pedestrian improvements, and environmental clearances.
- **I-5: Capitol Hwy. – Willamette River Bridge,** ODOT - *Office Support.* Brendan was engaged in construction support services and completed design work for this project. His role included video review and field inspection of over 70,000 feet of stormwater system pipe ranging in diameter from 12 to 60 inches, analysis, condition rating, system mapping, cataloging and repair/replacement recommendations and designs. His responsibilities also encompassed water quality facility design, detention facility design, drainage design, utility coordination and permitting acquisition from local agencies, including Clean Water Services and others.
- **US 101: Alsea Bay Bridge – William Keady Wayside**, ODOT, Waldport, OR - *Office Support*. Brendan assisted in the development of final plans, specifications and estimates for the US 101: Alsea Bay Bridge – William Keady Wayside project for ODOT in Waldport, Oregon. The project included extensive pedestrian improvements including constructing continuous sidewalks on both sides of US101, pedestrian plazas, curb extensions, improved crosswalks, pedestrian refuge islands, pedestrian scale lighting and improved signing. His role included utility coordination, utility conflict analysis and access management analysis.
- **I-5: Beltline Interchange**, ODOT, Eugene, OR - *Office Support.* Brendan assisted in the final plans, specifications and estimate development and developed extensive erosion control measures.

Key Staff Resumes for CA/CEI Services

Name & Title: Tyler Douglas, Field Engineering Tech.

Name of firm (only if sub): OBEC Consulting Engineers

Role on potential project assignments: QCCS/Inspector

Years of experience in proposed role: 9

Key Expertise: *Issue Resolution, Federal Aid, Project Close-out, Traffic Control, Erosion Control, Environmental Protection, Earthwork, Riprap Protection, Drainage & Sewers, Structure Excavation & Backfill, Structural Steel, Drilled Shafts, Driven Piles, Reinforced Concrete, Prestressed Concrete, Structure Coating, Retaining Walls, Aggregate Base & Paving, Curbs & Sidewalks, Metal Guardrail, Pavement Marking, Signs & Supports, Lighting & Signals, Seeding & Planting, Potable Water, Concrete Pavement*

S. Umpqua River (Pruner Rd.) Bridge
Douglas County, Oregon

List Active Certification(s), Certification Number(s) and previous role(s) on relevant projects:
Tyler's ODOT certification number 40998. His certifications include:

- Bridge Inspector (CBCI)
- Drilled Shaft Inspector (CDSI)
- General Inspector (CGI)
- Environmental/Erosion Inspector (CECI)
- HMAC Inspector (HMAC)
- Concrete Technician (QCT)
- Density Technician (CDT)
- Asphalt Technician (CAT I)
- Embankment Technician (CEbT)
- Aggregate Technician (CAgT)
- Traffic Control Supervisor

- **S. Umpqua River (Pruner Rd.) Bridge Replacement,** ODOT, Douglas County, OR - *Field Engineering Technician* for a new 588-foot-long steel plate girder bridge over the S. Umpqua River north of Riddle. The bridge rails consisted of 3-tube steel and the concrete approach rails were designed with an architectural textured finish.
- **Medford Street Paving (Oak and Taft Streets),** ODOT, Medford, OR - *Field Engineering Technician* for the reconstruction of two streets and an alley. Construction activities included earthwork; 548 feet of storm sewer; manholes; inlets; 1,750 feet of concrete curb and gutter; 7,830 square feet of sidewalk, valley gutters, and driveways; street lighting; and asphalt paving. Project challenges included staging construction around a busy freight trucking center and removal of petroleum-contaminated soil. Construction tasks included construction inspection, general documentation, quality and quantity documentation, and labor compliance to ODOT and Federal Standards.
- **Upton Road/Scenic Avenue,** City of Central Point, OR - *Field Engineering Technician* for the realignment of two adjacent three-way intersections; widening Upton Road, Scenic Avenue, 10th Street, and 3rd Street to three lanes including bike lanes; addition of sidewalks, curb and gutter, and pavement reconstruction; construction of new storm sewer with inlets, domestic water system improvements, sanitary sewer replacement, new signing and roadway striping; relocation of existing overhead and underground utilities; and right-of-way acquisition services.
- **N. Hazel Street – N. Tenth Street,** ODOT, Central Point, OR - *Field Engineering Technician* for this OTIA-funded project for full street improvements to five city blocks of existing residential gravel streets. This project includes providing new storm drainage system, domestic water mains, retaining walls, curbs, sidewalks, and paving.
- **Brown's Bridge Detour,** ODOT, Douglas County, OR - *Field Engineering Technician* for the construction of a very tightly constrained two-lane on-site diversion onto a 12-span 760-foot-long structural steel detour bridge over the N. Umpqua River in collaboration with Douglas County for the replacement of Brown's Bridge, currently being designed by OBEC and the Oregon Department of Transportation.

Key Staff Resumes for CA/CEI Services

Name & Title: Marissa Himmel, PE, Field Engineer

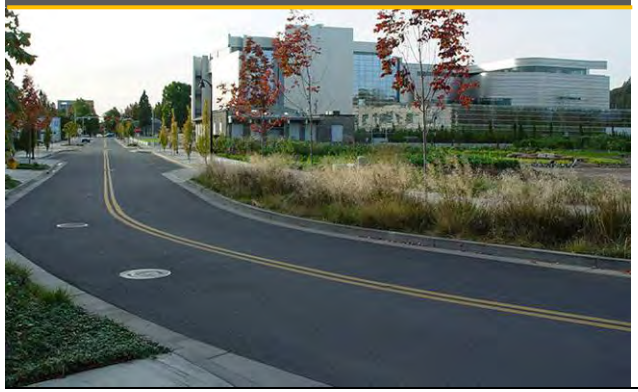
Name of firm (only if sub): OBEC Consulting Engineers

Role on potential project assignments: Inspector

Years of experience in proposed role: 7

Key Expertise: *Issue Resolution, Federal Aid, Project Close-out, Traffic Control, Erosion Control, Environmental Protection, Earthwork, Riprap Protection, Drainage & Sewers, Structure Excavation & Back fill, Drilled Shafts, Driven Piles, Reinforced Concrete, Prestressed Concrete, Structure Coating, Retaining Walls, Aggregate Base & Paving, Curbs & Sidewalks, Metal Guardrail, Pavement Marking, Signs & Supports, Lighting & Signals, Seeding & Planting, Potable Water*

Courthouse District Transportation Improvements, Eugene, Oregon



List Active Certification(s), Certification Number(s) and previous role(s) on relevant projects:

Marissa Himmel, P.E., Oregon PE #76,355, has seven years of CA/CEI experience and is familiar with Federal-aid projects. Generally, she is responsible for daily reports, contract administration, and quality documentation. As a field engineer, she carefully studies plans and specifications, and performs grade and elevation checks to help the construction contractor avoid any human errors and to help avoid potential "fatal flaws" during construction. Marissa has a wide variety of experience inspecting bridge and roadway construction projects. Marissa's ODOT certification number is 40804. Her certifications include:

- **Bridge Inspector (CBCI)**
- **General Inspector (CGI)**
- **Traffic Signal Inspector (CTSI)**
- **Traffic Control Supervisor**
- **Environmental/Erosion Inspector (CECI)**
- **HMAC Inspector (HMAC)**
- **Concrete Technician (QCT)**

- **Carmen Diversion Bridge Replacement,** Eugene Water & Electric Board, Lane County, OR - *Field Engineer* for the replacement of the existing 85-foot-long single-span steel girder bridge that carries Willamette National Forest Road No. 750 over the upper McKenzie River near the Carmen Smith Reservoir. The new structure is a single-span concrete bridge designed to blend in with the character of the site and accommodate both vehicle and pedestrian traffic.
- **Siletz River (Logsden Road) Bridge,** Lincoln County, OR - *Field Engineer* for the 360-foot-long, three-span continuous precast prestressed girder bridge to replace a deteriorated steel plate girder bridge. OBEC provided design, construction engineering, and project management services.
- **Willamina Creek (Willamina Cr Rd) Bridge,** Yamhill County, OR - *Field Engineer* for construction inspection of this three-span precast prestressed girder bridge 226 feet long and 34 feet wide. The project included surveying, right-of-way mapping, legalization documentation and descriptions, approach roadway realignment, hydraulics, erosion control design, traffic control plans, environmental documentation, permit acquisition, and public involvement.
- **Lower Sucker Creek (Holland Loop Road) Bridge,** ODOT, Josephine County, OR - *Field Engineer* for this three-span replacement structure that consists of precast prestressed concrete 60-inch bulb tee girders with a cast-in-place reinforced concrete deck. Interior support piers consist of single columns resting on drilled shafts while the end abutments are supported by driven steel piles. The new bridge will remain on the same alignment as the original and will include upgraded railings to meet current safety standards.
- **Courthouse District Transportation Improvements,** ODOT, Eugene, OR - *Field Engineer* responsible for inspection and contractor coordination for this project providing transportation improvements surrounding the new Federal Courthouse in the City of Eugene. Work involved both vehicular and pedestrian access improvements encompassing a several block area. New roadway sections, traffic signals, illumination, underground utilities, and storm drainage improvements were included.