Statement of Qualifications

Alcantar & Associates

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ALCANTAR & ASSOCIATES
COMPANY PROFILE

Alcantar & Associates (Alcantar) was founded by Marcela Alcantar to fulfill a personal and professional mission to provide exceptional engineering and construction support services. Recent project experience has focused primarily construction staking and inspection of water resources and transportation projects including highway, roadway, utilities (water, sanitary, and drainage), dams, and tunneling. Alcantar is a SBA 8a and Hub Zone certified business and also holds WBE/MBE/DBE certifications in Oregon #2395, and Washington #D5F6817760. Our mission is to provide technical excellence, efficiency, and cost-effective solutions to meet our client's needs.

ALCANTAR & ASSOCIATES
COMPANY PROJECT EXPERIENCE

The staff and associates of Alcantar are a diverse group of professionals with backgrounds in the various technical disciplines required to competently handle civil, transportation, drainage, and water resources projects. By providing high quality professional engineering, construction, maintenance facility and experienced project management services, Alcantar has expanded its client base from year to year on a consistent basis. Clients benefit from our experience in design and construction challenges related to public site and transportation projects. Alcantar and Associates is registered with the Oregon CCB-182936 and our bonding capacity is $2.5 Million per project and $5M aggregate.

Construction Survey and Staking Selective Project Experience

Sandy River Conduit Relocation

Alcantar performed the construction staking for this project which included a 30-foot-diameter construction shaft alignment (depth of 85 feet); two drilled 9-foot diameter shafts (depth of 110 feet), and a 13-foot-diameter modified horseshoe tunnel running diagonally under the girder of the Sandy River. Alcantar provided marking coordination, differential leveling, and monitoring.

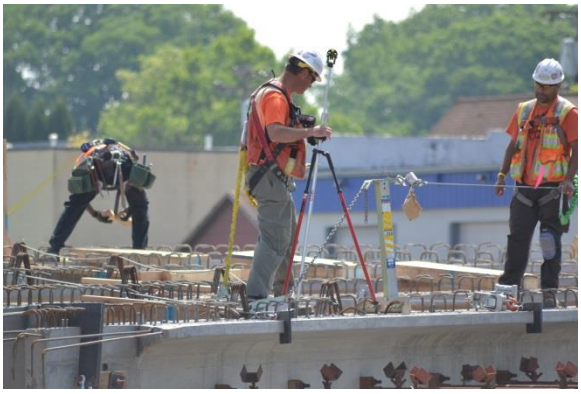
Portland - Milwaukie Light Rail East / West Segments

Alcantar was retained by Stacy and Witbeck to provide construction layout for the Portland to Milwaukie Light Rail East Segments.

Alcantar's construction layout task included:

- Project Control – Establishment and Verification
- As Built Survey
- CAD Support
- Field vs. Approved plans conflict resolution
- Provided 8 field crews on the project at one time.
- Compliance with SWI Project QA/QC Plan.
- Coordination with SWI and other subcontractor to complete work in accordance with the project schedule.

Tilikum Crossing Transit Bridge *Portland, OR*



The project work included the construction of a new transit bridge across the Willamette River to accommodate light rail, bus, bicycles and pedestrians.

Alcantar was retained by HNTB to provide a number of services including stormwater analysis and design, regulatory/environmental QA/QC review of plans & specifications, advisory role for permit compliance during construction & QA for the bridge construction layout by prime contractor (Kiewit).

Alcantar's task orders to date have included stormwater analysis and design for the runoff on the bridge, plans and specification review with respect to permits, review of the Environmental Compliance Plan, Spill Prevention Plan, Review of the environmental work plan for the piers including scour and erosion of river bottom soils and Quality Control of the survey control for the project.

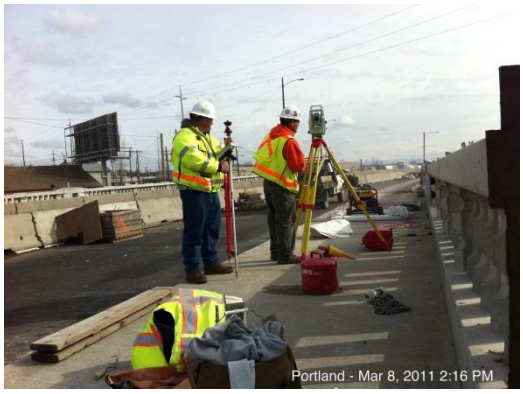
Now that the construction phase is underway, Alcantar must maintain staff availability for review turnaround on contractor documents and submittals so that the overall construction schedule can be maintained.

LRT South Corridor Mall Extension
Portland, OR.

Sub-contracted to Stacy Witbeck–Kiewit for construction staking services. Tasks Included:

- As build data collection to verify existing conditions.
- Construction staking for gas, water, sewer, street light poles, traffic signal poles, grading, sidewalks, ADA ramps, light rail platforms, and buildings.
- Construction staking for roadway and track centerlines and offsets.
- Calculations of horizontal and vertical project control points.
- Setting controls for construction layout.

Street Car Loop *Portland, OR.*



Sub-contracted to Stacy Witbeck–Kiewit for construction layout services. Tasks Included:

- Electronic files management and CADD point control files for project Construction layout.
- As build data collection to verify existing conditions.
- Construction layout for gas, water, sewer, street light poles, traffic signal poles, grading, sidewalks, ADA ramps, light rail platforms, and buildings.
- Construction layout for roadway and track centerlines and offsets.
- Calculations of horizontal and vertical project control points.
- Setting controls for construction layout.

Port of Portland HQP2 Airport Parking Lot Expansion *Portland, OR.*

Alcantar's services included construction staking to support to Hoffman Construction. Our efforts were instrumental in bringing the project to completion, on-time and on-budget.

Balch Consolidation Conduit
Portland, OR

This project is part of a group of improvements that the City of Portland Bureau of Environmental Services (BES) completed to reduce the discharge of combined sewer overflows (CSO) to the Willamette River. The construction scope of the project consisted of microtunneling approximately 6,700 feet at depths ranging between 40 to 75 feet below the surface. Six shafts were constructed along the microtunnel route to provide access and connect existing pipelines to the conduit.

Alcantar performed the construction staking for this project, which included vertical and horizontal location for the microtunnel, 8500 feet of pipeline that depths ranged from 20 to 70 feet, and the shafts which ranged from 24 to 33 feet in diameter at a 40 to 72 feet depth. Alcantar also supplemented the City's Settlement Monitoring program by proving special verification of frequented recorded information for surface utility settlement.

Bonneville Lock and Dam: Washington Shore Ladder Entrance Modifications

This work was for improvements to the entrance (downstream end) of the U.S. Army Corp of Engineers (USACE) Washington shore fish ladder. Work elements included water management, dive work, concrete cutting and boring, steel fabrication, fabrication and installation of gravity water supply system, fabrication and underwater installation of Lamprey Flume System, maintaining the fish ladder in a dewatered state, Government Furnished Property relocation, Government Furnish Property installation, and crane support for research operations.

Alcantar and Associates was responsible for supervision and coordination required to complete Surveying Services and Layout of work plans to USACE specifications.
Additional tasks included the following:

- Electronic submittal of the as build plans for this project.
- Conduct research of underground utilities in the project limits using as builds from the Agency
- Provided construction staking
- Provided surveying notes, surveying maps, tabulations of horizontal and vertical project control points.
- Set Survey Control Points to tie (survey) the found monuments.

Washington Park Interim Security Improvements *Portland, OR*

Alcantar was hired as a sub consultant to AECOM, Inc. for preliminary and final design to provide CAD drafting services. Drafting work was completed in Micro station conforming to the requirements of the Portland Water Bureau and the project CAD standards that were established at the beginning of the project. We provided qualified senior-level, experienced CAD technicians familiar with Micro station and AutoCad. The CAD technician was expected to work full time for the duration of the preliminary design (6 months) and final design (24 months). We worked as an integral team member with AECOM's project staff in AECOM's Portland Office.

Westmoreland Park Fish Passage – Phase II

Portland, OR

The Westmoreland Phase II Fish Passage Improvement Project improves fish and wildlife habitat in Crystal Springs Creek, a tributary of Johnson Creek, which flows to the Willamette River. The project is located at two locations in Portland, Multnomah County, Oregon: Westmoreland Park and the intersection of Tacoma Street and SE 21st Street.

The Westmoreland Park site includes removal of an existing shallow pond and re-grading of the existing channel to create a fish friendly stream channel surrounded by vegetated riparian zones and emergent wetlands. Also included will be trails and boardwalks to allow viewing of the streambank restoration channel. The Tacoma Street site includes the removal of an existing 48" diameter culvert under Tacoma Street and replacing it with a bridge for better fish passage. The replacement will involve right-of-way reconstruction including the re-routing of utilities.

Alcantar and Associates was responsible for the as-build contract documents and supervision and coordination required to complete surveying services and work plans to USACE specifications. Participated in the topographic mapping, 2D redlines contours of project as-builds, setting survey control point to tie the found monuments as well as construction staking.

Foster Fish Collection Facility Rebuild

Sweet Home, OR

Alcantar and Associates provided drafting services for Government-furnished sketches for the Foster Fish Facility in Microstation (Bentley) format. Our team created approximately 30 Cadd D size drawings and made them available for the Government to download from their FTP site and via email. All drawings were produced using CADD software in MicroStation (Bentley) version 8 software in design file format. The new drawings matched the original files including dimensional accuracy. These drawings were drafted using Tri-Services layering that conforms to Architecture Engineering and Construction (AEC) CADD Standards. The new drawings matched the original title blocks.

Residential and Commercial Construction Experience

Our experience also includes N**atural Habitat Restoration** services to successfully update and improve property appearance and to reduce ongoing maintenance costs inclusive of erosion control.
Services include:

- Removing existing grass (Manual and Mechanical).
- Site Grading (Manual and Mechanical-tractor and bobcat).
- Preparing of seed (cleaning of seeds).
- Applying grass seeding (with and without crack spreader).
- Transporting plants.
- Container planting.
- Applying Mulch.
- Developing planting plan.
- Building a retaining wall out natural bolder.
- Adding ornamental boulder to landscape.
- Stormwater management.

Residential Construction. Alcantar acted as the general contractor and self performed the site grading, erosion control, concrete work, sheet rock installation, planting and retaining wall.

Project Line items:

- Erosion Control
- Site Grading (Manual and Mechanical)
- Concrete foundation
- Wood framing
- Roofing
- Insulation
- Sheet rock
- Tile and wood flooring
- Window and Door Installation
- Planting
- Cabinetry

Commercial Construction. Broadway Streetscape Improvements, Phase II

Beaverton, OR

This was a $480,000 sidewalk improvement project located in the historic district of downtown Beaverton. This project helped to revitalize the region of downtown Beaverton and bring attention to the area as well as an increase patronage to the local businesses.

The project consisted of removing and replacing the sidewalk on the south side of SW Broadway Street between SW Watson Ave. and SW Hall Blvd. The project included new street lighting, tree planting, irrigation system, installation of a decorative brick plaza, replacement of water meters, sewer laterals, bike racks and metal fence.

Alcantar and Associates was hired as a subcontractor to Kodiak Pacific Construction to provide the following scope of work: coordination and installation of concrete sidewalks, ADA ramps, curb and gutter, foundation slab for a decorative brick plaza, and decommissioning of three coal storage rooms located underneath the existing sidewalk.

Due to the old age of the building and the location of the coal rooms (directly underneath the existing sidewalk), decommissioning of the coal rooms provided an interesting challenge. Alcantar and Associates was required to maintain access to the coal rooms through the basement of the adjacent building, and, due to the condition of the existing concrete, a slab over the top of the room would not suffice. Alcantar and Associates installed an entirely new wall system within the existing wall as well as auger piers into the subgrade in order to maintain the structural integrity of the building.

This project was completed in August 2015 ahead of schedule and under budget with limited impact to the local businesses.

Quality Assurance and Inspection Selective Project Experience

OR HWY 217: Sunset Highway – Tualatin Valley Highway Section

Portland, OR

This was a $42M highway modernization project for the Oregon Department of Transportation. The project includes the following elements:

- Adding a third northbound through lane on OR 217 from the TV Highway on-ramp to the Sunset Highway
- Building retaining walls and improving drainage on OR 217
- Paving and striping the project area and all the OR 217/U.S. 26 interchange ramps
- Lengthening the Wilshire Street overpass to accommodate the wider highway
- Improving visibility and safety on the Wilshire Street off-ramp in the OR 217/U.S. 26 interchange
- Restriping OR 217 southbound to add an auxiliary lane from the Wilshire Street on-ramp to the Walker Road off-ramp

Alcantar was hired as a subcontractor to Emery and Son's to complete the following scope of work: redrafting of all design drawings to bring them into electronic format for use in our construction staking work; quality assurance reviews of the design documents as part of our construction staking process; submittal of design change recommendations based on QA review; and construction layout and field vs approved plans conflict resolution.

Klawock Community Streets Paving

Klawock, AK

Quality Control management and inspection on this Federal Highway Project located in Klawock, AK. This project consisted of installation of culvert pipes and drainage systems, retaining walls, placement of aggregate base, grading and paving. Responsibilities included materials submittals, quality control reporting, and daily construction inspection. This project was completed in July 2014 on time and under budget.

Main St: OR99W – Rail Corridor

Tigard, OR

Project management and general inspection support for WH Pacific on the $3 Million ODOT project. This "Green Road" project, located in downtown Tigard, Oregon; consisted of replacement of existing underground utilities (sewer, water, electrical), installation of bioretention ponds, new street lighting system, irrigation and landscaping systems, sidewalk / driveway reconstruction and widening, and asphalt pavement. Alcantar and Associates responsibilities included daily field inspections, subcontractor and employee time tracking, quantity tracking for pay notes and material submittals. This project was completed in November 2014 on time and under budget.

USDA Forest Service – Tahoe National Forest

Before

After

North Star Construction and Engineering, Inc., along with our subcontractor Alcantar and Associates, were awarded the competitive bid small business contract for the Fallen Leaf Lake Bike Path. This is a Class 5 bike path near the intersection of Hwy 89 and Fallen Leaf Lake Road will lead to the Fallen Leaf Lake Campground. The bike path runs North and South parralleling Fallen Leaf Lake Road for appoximatly ½ mile. Work included clearing and grubbing, rock removal, tree removal, grading and compaction of existing ground as well as the placement and compaction of aggregate base. Asphalt pavement was placed on the aggregate base and striped.

North Star/Alcantar completed this project 4 weeks in advance giving the public access to the path in Summer 2014.

PDX-Hillsboro Airport *Hillsboro, OR.*

Alcantar served as a sub consultant to CH2MHILL for civil design support services.

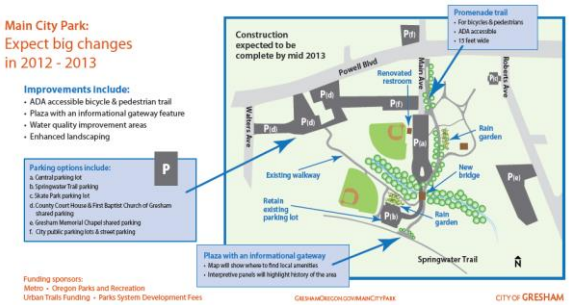
Designed, detailed, and prepared drawings and specifications for the storm water plans. This included, but not limited to coordinating and resolving conflict issues between existing and proposed conditions for existing utilities, runway, and taxiways among others.

Linneman Station Trailhead *Gresham, OR.* The development consisted of the revitalization of the existing Linnemann Station Building and Trailhead. Alcantar scope of work consisted of the parking lot design, utility coordination and stormwater design, procedures and schedule for operation and maintenance of these facilities. Alcantar design of the water quality facility requirements were fulfill by means of sumps, trapped catch basins, filter inserts, and a proposed vegetated infiltration pond. Alcantar & Associates designed the proposed water quality facilities to assure that each component provides a high percentage of the pollutants created by this type of development will not reach the public storm drain system.

Before

Before

After



- **Kake to Seal Point Road.** *Western Federal Lands Highway Division. Kake, Alaska*. Responsible for quality assurance, management, inspection, and materials testing for an 8.3 million dollar highway reconstruction project. Work consisted of earthwork (cuts/fills) subgrade stabilization and monitoring, installation of retaining walls, culvert pipes, production and placement of aggregate base. Additional tasks included material submittals, daily reports, and settlement plate monitoring.

- **South Moody and Southwest Meade (OHSU classroom building).** *City of Portland, Department of Transportation*. Responsible for the quality assurance of approximately 500 LF of road improvements, which included the unique complex placement of light type concrete as a road base. Additional task included inspection of sidewalk, curb, pavement placement, plan review and submittal and tracking of Daily reports, flagger and pilot call receipts and Construction Product list check.

- **Southwest Capitol Hill Road**. *City of Portland, Department of Transportation* Responsible for the quality assurance of approximately 1,800 LF of road improvements, which included the unique complex placement of light type concrete as a road base. Additional task included inspection of sidewalk, curb, pavement placement, plan review and submittal and tracking of Daily reports, flagger and pilot call receipts and Construction Product list check.

- **North Prescott Street- Interstate Ave- Skidmore Street.** *City of Portland, Department of Transportation*. Responsible for the quality assurance and inspection of approximately 1,200 LF of road improvements. Additional task included inspection of sidewalk, curb, pavement placement, plan review and submittal and tracking of Daily reports, flagger and pilot call receipts and Construction Product list check.

- **SW Sunset Boulevard**. *City of Portland, Department of Transportation*. Responsible for the inspection of the proposed road improvements. Additional task included inspection of sidewalk, curb, pavement placement, plan review and submittal and tracking of Daily reports, flagger and pilot call receipts and Construction Product list check.

- **Dorena and Cottage Grove Upgrades.** *US Army Corp of Engineers. Cottage Grove, Oregon*. Alcantar served as a subcontractor to Cloud Enterprises, LLC. The project consisted of upgrades to Lakeside Park at Cottage Grove Lake, and Schwarz Park at Dorena Lake. This project consisted of installation of new underground utilities including sewer, water, electrical, and phone lines at 5 camp sites at Schwarz Park as well as decommissioning septic tanks and sewer lines, removal of existing bathrooms, and installation of new vault-style toilets at Lakeside Park. Alcantar's responsibilities included; quality control, site safety, inspection, and survey and preconstruction accident, erosion control, quality control, emergency, and work project plans.

- **US-30 Roadside Development Project (ODOT).**Sub consultant to DEA. Responsibilities included the maintenance of daily reports, management of change orders, mobilizations, lump sum payouts, percentage payouts, job-site material verifications and inspections, and wage verifications. Also, inspected and monitored concrete curb and sidewalk placement, rock excavation, embankment in place, storm pipe placement, Monitored placement of non-reinforced and reinforced concrete, corrugated steel, aluminum and polyethylene drainage pipes. Verified and monitored placement of plants, shrubs, and trees. Monitored placement and erection of chain link fence.

Engineer Responsibilities as required by BLM

Engineering workload includes, but is not limited to, project cost estimates for fence construction and maintenance, road maintenance, spring developments, fire rehabilitation, and creek channel stabilization.

Project cost estimates encompass assembling materials lists which may include: fence posts, barbed wire, wire stays corner, and gates for fences, gravel and culverts for roads; head boxes, drain rock, pipes and plumbing for springs; boulders and straw waddles for creek channel stabilization.

Project cost estimates also include determining time, labor, and equipment needed for each project.

Contract preparation for each type of project includes writing specifications and assembling drawings and maps.

Survey and construction staking for each project as needed.

Contract inspection includes on the ground inspection of each type of project to ensure contractor is adhering to project design, specifications and all other contract requirements.

Perform condition assessments on recreation and administrative site facilities to document deficiencies and maintenance or repair needs.

Current projects in progress for 2015:

- Carlson Creek Head Cut Rehabilitation
- Cherry Spring Development
- Bone Creek Fire Fence Maintenance
- Miller Fire Fence Removal
- Mann Lake Shoreline Fence Construction
- Riley Field E.S.R. Fence Maintenance
- Western Basin Road Maintenance
- Willow Reservoir road Maintenance
- East Horton Mill Road Maintenance
- Stinking Water Road Maintenance
- Skull Creek Road Maintenance
- Moon Reservoir Road Maintenance
- Pipeline Network Road Maintenance
- Front Creek Mountain Road and Cattle-guard maintenance
- Fish Lake Low Water Crossings
- Fish Lake Recreation Site Condition Assessment
- Riddle Ranch Administrative Site Condition Assessment

Utility and Railroad Coordination Selected Project Experience

Alcantar experience includes performing Utility Coordination Services inclusive of providing all documents and deliverables necessary for the project in coordination with Agency Utility Liaison, the State Utility Liaison and the State Railroad Liaison. The following are selected project experience:

ODOT- Oregon Bridge Delivery Partners, *Oregon***.** Alcantar & Associates task assignments included:

A) Utility Coordination: Alcantar responsibilities included the identification of affected utilities; coordinate relocation scheduling and design; prepare and submit relevant reports; and resolve utility conflicts in coordination with OBDP, ODOT and any state or local agency involve on the OTIA III State Bridge Delivery Program for a period of one year.

B) Utility review and oversight: Alcantar responsibilities included independently oversight and review for accuracy and compliance with applicable laws and regulations and policy, the utility coordination, including all utility reports, correspondence, agreements, and reimbursement claims for the OTIA III State Bridge Delivery Program for a period of one year.

ODOT- Oregon Bridge Delivery Partners, Bundle 209- I-84 Dodson-Tanner Creek.

Alcantar & Associates served as a subcontractor to Parsons Brinckerhoff for utility coordination Alcantar was responsible for gathering utility information. The information was researched and assembled in a manner that OBDP's Utility Engineer could provide to affected stakeholders for relocation requirements. The task assignment included review of available information about existing utilities and prior rights and identification of potential conflicts. Alcantar & Associates obtained utility information from: Oregon Utility Notification Center ("OUNC") through the One-Call Center ("OCC"), in-field surveys of utility markups, as-built maps, communications with the utility, and other resources, as applicable.

Tri-Met -Washington Commuter Rail, *City of Beaverton, Tigard, Tualatin, and Washington County***.** Alcantar served as a sub consultant to URS for civil design support services. Specific responsibilities included:

At grade crossings: Designed, detailed, and prepared drawings and specifications for the street crossing plans. This included, but not limited to coordinating and resolving

A) Railroad coordination: Alcantar task included working with project manager to aid and support the railroad coordination to include notification to railroad of potential impacts; coordinate relocation scheduling and design; prepare and submit relevant reports; and resolve railroad conflicts in coordination with Agency.

B) Railroad review and oversight: Alcantar task included working with project manager to aid and support the oversight and review of the railroad coordination for accuracy and compliance with applicable laws and regulations and policy, all railroad reports, correspondence, agreements, and reimbursement claims.

Bureau of Environmental Services East Side CSO, *Portland, OR.*

Alcantar served as a sub consultant to PB for civil design support services under the UTILITY IDENTIFICATION AND RELOCATION PLAN. Task included:

A) Utility Coordination: Alcantar responsibilities included the identification of affected utilities; coordinate relocation scheduling and design; prepare and submit relevant reports; and resolve utility conflicts in coordination with local agency and utility owners.

B) Utility review and oversight: Alcantar responsibilities included assisting project manager to independently oversight and review for accuracy and compliance with applicable laws and regulations and policy, the utility coordination, including all utility reports, correspondence, agreements, and reimbursement claims for the ESCO project.

C) Used the utilities identified to ensure that all known utilities were indicated on the project plans, profiles, and sections. Alcantar used the conflict log to coordinate utility relocations and to note any utilities that may require special protection during project construction. As the project design progressed, Alcantar:

- Updated the affected utility agencies of the design status.
- Maintained an open, ongoing exchange of information with the agencies to facilitate the future relocation activities during construction.
- Maintained a Utility Location File with a log of source of utility locate (GIS, One-Call, as-builts, survey, potholes), any utility location disagreement arising from differing information sources, and resolution of location discrepancies. Utility locations will be referenced to plan/profile sheets.
- Using a secondary utility list developed a relocation plan for utilities directly impacted by the tunnel and appurtenant facilities construction.
- This work included design and/or implement specific utility relocations, coordination of utility relocations prepared by the utility agencies, documentation of utility relocations, and coordination with utility agencies to facilitate the future relocation activities during construction.

Portland International Airport Runway 10 R-28L (South Runway) Rehabilitation project.

Alcantar was retained by HNTB to provide storm water analysis and design for the In general the project work included the reconstruction of the existing 11,000 feet long by 150 feet wide asphalt runway and four connector taxiways with concrete; widening of the asphalt shoulders from 25 feet to 35 feet; removal of the lime cement-pozzolan-flyashsubbase material in the western third of the runway; replacement of the National Guard Bureau aircraft arresting systems; rehabilitation of the asphalt blast pads; partial removal of the east blast pad; and asphalt surface mill and inlay of the south runway connector taxiway exists within the runway safety area.

Alcantar's task included conducting an investigation of the existing utilities in the vicinity of the South Runway to evaluate the location and condition of the existing utilities, including the storm drain lines, sanitary sewer lines, de-icing collection lines, water lines, communication/electrical lines, and other utilities, crossing the South Runway or located elsewhere within the safety area. The investigation program consisted of examining base mapping of the project area, collecting and reviewing records of construction ("as built" information), conducting potholing and video inspection, evaluating and assessing the collected data, and conduction stormwater hydraulic analysis.

Alcantar stormwater analysis, design and report required constant update of calculations and adjustment to area drains due to continuous proposed runway design changes to the existing runways as describe above in the general project description. Alcantar's investigation and analysis for the proposed-existing utilities and storm system involved field explorations and inspections, records research, condition assessments, and capacity calculations.

City of Portland, Portland Water Bureau –N Vancouver Ave Bridge. This project consisted of the engineering design for the North Vancouver Avenue Bridge. Alcantar was a sub-contractor to DEA Inc. to provide waterline design services (preparation of construction documents) for the relocation of the waterline per City of Portland Water Bureau Standards utilizing Microstation V8 XM.

City of Portland, Portland Water Bureau- Foster Road Improvements. This project consisted of the engineering design for both a bridge improvement on SE Foster Road and an intersection improvement to the adjacent intersection, SE Barbara Welch Road. Alcantar was a sub to W&H pacific to provide engineering design services to prepare the waterline relocation plans as well as the traffic control plans. The plans were prepared for both the City of Portland Water Bureau and the City of Portland Transportation Bureau.

The staff and associates of Alcantar are a diverse group of professionals with backgrounds in the various technical disciplines required to competently handle civil, transportation, and water resources projects. By providing high quality professional engineering, construction management, and delivering construction project on time, on scope and on budget. Alcantar has expanded its client base from year to year on a consistent basis. Clients benefit from our experience in design and construction challenges related to public site and transportation projects.

Marcela Alcantar – President

Marcela Alcantar has over 25 years of extensive civil engineering experience managing architects, engineers, and construction personnel in cross-functional and/or multi-disciplinary teams to facilitate capital improvement projects from the initial planning phase to closeout. Her experience includes technical design, operations, development of budgets, schedules, and quality control; design of roadways, park/recreation facilities, storm water facilities, sanitary sewer systems, waterlines, site development, and hydraulic systems; engineering calculations, field checks, and site reconnaissance.

REGISTRATIONS:

ODOT - Bridge Inspector Certification
ODOT - ROW Descriptions Training
ODOT CAgT
ODOT HMAC
ODOT CBCI
Nuclear Gage Safety Certification
Hazmat Certification
USACE Quality Assurance Training
Colorado- FE Certification

PROJECT EXPERIENCE INCLUDES:

- **Tillikum Bridge – Tri-Met / HNTB Portland, Oregon.** The bridge is a new suspension transit bridge across the Willamette River that is intended to accommodate Light Rail, bus, bicycle and pedestrian traffic and a connection between southeast Portland the rest of the regional mass transit network. Mrs. Alcantar was involved in the environmental review of project plans and documents for regulatory compliance as well as the storm water analysis and specification review for submittal to the Design Build team.

- **OR 217 : Sunset Highway – Tualatin Valley Highway Section, Portland, Oregon** Alcantar provided construction staking for highway centerline, utilities, seven retaining walls of various construction, striping, illumination, signing, and a complex super-elevated bridge structure. Mrs. Alcantar was the overall project manager and principal-in-charge of making assignments, scheduling staff and ensuring the quality control and safety procedures are followed. Responsibilities included bid and contract review, explanation of roles, responsibilities and authority of team members, project documentation, review of claims, dispute resolution, development of accounting project budget/work breakdown to implementation of progress payments, periodic project status reports, approving revisions to contract, schedules, and participating in project review meetings with agency, designer of record and contractor to coordinate and gain consensus on construction document changes and cost adjustments.

- **Port of Portland- South Runway 10R/28L Rehabilitation Project.** Engineering design tasks included conducting an investigation of the existing utilities and the storm water hydraulic analysis in the vicinity of the South Runway to evaluate the location and condition of the existing utilities, including the storm drain lines, sanitary sewer lines, de-icing collection lines, water lines,

communication/electrical lines, and other utilities, crossing the South Runway or located elsewhere within the safety area. Also participated in engineering work necessary to complete design and preparation of plans and specs. This included providing formal design review, QA/QC, and cost estimating.

- **South Corridor- Portland Mall Tri Met Extension, Portland, OR**. Mrs. Alcantar was responsible for the electronic files management and CADD point control files for the Surveying Construction Staking. Responsibilities included to support crew on field as well as acting as party chief when need it. Other Tasks:
  - Support to surveying crew on project site to gather data to establish as build.
  - Support to surveying crew on project site for construction staking for gas, water, sewer, street light poles, traffic poles and signals, and proposed grading for sidewalk, ADA ramps, platforms and proposed buildings.
  - Worked on the project site to do construction staking including centerline and offset staking for road and track.
  - Performed field surveying notes and tabulations for field work.
  - Performed office calculations for horizontal and vertical project control points.
  - Performed office calculations for gas, water, sewer, street light poles, traffic poles, signals, and proposed grading for sidewalk, ADA ramps, and platforms.

- **City of Portland Water Bureau- Foster Road Improvements.** This project consisted of the engineering design for both a bridge improvement on SE Foster Road and an intersection improvement to the adjacent intersection, SE Barbara Welch Road. Mrs. Alcantar worked with W&H pacific to provide engineering design services to prepare the waterline relocation plans as well as the traffic control plans. The plans were prepared for both the Portland Water Bureau and the City of Portland Transportation Bureau.

- **United States Army Corps of Engineers (USACE)–Portland District –Contract E Indian Treaty Fishing Access Sites Washington and Oregon.** Alcantar served as a sub consultant to Fred Cooper Engineers for Civil Engineering support efforts. Mrs. Alcantar's responsibilities included:
  - Provided design plans, details, schedule (site plans, grading and paving plans, profiles, coordinate schedules for location of key features, drawing notes, and technical specifications markups language for all proposed improvements.
  - Provided construction quantity takeoff on a sheet by sheet basis at 60 and 90 percent.
  - Provided Microstation -CAD drafting support for approximately 25 structural, mechanical and electrical drawings.

- **HOST Development, St. Johns, OR.** Mrs. Alcantar was responsible for the creation of grading, erosion control, utility layout and site plans for this 103-lot subdivision. The project management efforts included maintaining project scheduling and developing cost estimates, as well as coordinating the approval of plans by leading the design team and participating on neighborhood, and government agency meetings. Coordinated strategy revisions as necessary, and responded to requests for information from governmental agencies, businesses, and the general public.

- **Sanitary Main for City of Turner, OR**. Mrs. Alcantar was responsible for developing alternatives to the City of Turner sanitary sewer system. This system consisted of 17,000 linear

feet of a 14-in force main. Also participated in the design of 18,00 L.F. of service laterals, the selection and sizing of two pump stations, and creating construction documents and special details such as railroad and bridge crossings.

- **Pioneer Road Planned Development, Drainage Hazard Analysis, Washington, County, OR.** Mrs. Alcantar was responsible for the analysis of the proposed site and greenway improvements in areas suspected of being within the 100-year floodplain. Also included the analysis of all proposed improvements for their inclusion within the 100-year floodplain by conducting a floodplain hydrology/hydraulic model analysis of the 29-lot subdivision.

- **Various Surveying Projects for the Denver Water Board, Denver, CO.** Mrs. Alcantar worked for the Denver water board performing numerous surveying tasks as a field crew surveying member. Surveying task included water treatment plan layout and elevation verification, existing waterline collection system data gathering for as build information, Water Board property boundary. Also performed worked as rodman and help run set up the equipment as well as running equipment from time to time.

REPRESENTATION AND CERTIFICATIONS

- Alcantar is 8a SBA certified :
  SBA Procurement Contract Specialist Yuri Dyson (503) 326-6692
- Alcantar is Oregon and Washington state certified as an W/M/DBE firm
- Alcantar is Self-certified as a Veteran Owned Business.
- Alcantar is registered with the Oregon CCB-182936.
- Cage Code 1QDZ4;
- DUNS# 129689357
- Alcantar and Associates Qualifies as a small business
- Alcantar and Associates is currently registered in the System for Award Management (SAM)