

Culvert Replacement, Bridge and Riparian Construction
Sandpiper East Apartments, Kelsey Creek, Bellevue WA

Addendum No 4.
01-23-2025

1. A question was asked as follows: Permit and Project Milestones indicate a date of September 16 for all work to be performed below the OHWM plans / OHWL permit. Section 06550 Seeding & Planting Part 3 3.1, A; states Non-irrigated plant material shall be installed between Oct. 1 & Mar. 1. Approximately 70-80% of the planting areas are below the established elevation of 160 and below the OHWM. With Addendum number two defining liquidated damages and the timeline without the condition of planting dates this appears to be a conflict.
 - a. Answer: All plant material specified below the OHWM should be planted before Sept 16th. Section 06550 Seeding and Planting 3.1, A, B has been revised to clarify this. Plantings above the OHWM must be completed prior to issuance of Physical Completion. Physical Completion is not tied to Liquidated Damages, see Addendum 2.

2. A question was asked as follows: On sheet SD01, there is a note on the left side of the project "...for removal of fire lane turnaround striping at end of project". When referencing the specifications, there appears to be no guidance on the requirements for the removal nor any details that would quantify or identify the removal requirements.
 - a. Answer: The Exhibits at the end of Section 01110 have been clarified to show the existing fire turnarounds that have been provided and noted the black out paint and re-striping to be done at end of project to restore parking. A note is also added to clarify that after the HMA overlay of the staging area at the end of the project, those parking stalls should also be re-striped.

3. A question was asked as follows: In the specification section 01110, a map with access routes has been provided. Within the map, additional sheets 3-5 are referenced. Can these be provided?
 - a. Answer: The Exhibits at the end of Section 01110 have been clarified to depict the two fire turnaround areas that have already been constructed and sheets 3-5 are no longer needed. The reference has been removed.

4. A question as asked as follows: With the forthcoming addendum 4, could you please address the lack of specified seed mix to be utilized. Plant schedule indicates Emergent Seed Mix but does not specify the blend/seed mix to be utilized or the lbs. per Ac or if Pure Live Seed (PLS) or Bulk.
 - a. Answer: An acceptable emergent see mix and rate of application has been added to the specifications Section 06550 Seeding and Planting 2.2 I. It has also been noted a similar mix can be submitted for review and approval as exact mixes can at times be hard to procure.

5. Please provide the latest plan holders list.
 - a. The latest plan holders list is attached.

Modifications to the Invitation to Bid:

1. Specification Section 06550 Seeding and Planting, 3.1.A, B have been revised to clarify the schedule for planting beneath the OHWM. In the same specification section, 2.2 I. Seed Mix has been added to specify an acceptable seed mix and rate. **Please replace Section 06550 with the attached.**
2. The Exhibits at the end of Section 01110 have been revised to clarify the restoration of the fire turnaround as parking lot striping and re-striping of any staging HMA overlay. **Please replace the Exhibits at the end of Section 01110 with the attached.**

Modifications to the Bid Plans:

1. Sheet S02 has been re-issued with a note aligning with the previous response in Addendum #3 regarding de-tensioning and abandoning any shoring tie backs that are utilized. **Please replace sheet S02 of the Bid plans with the attached.**

SECTION 06550

SEEDING AND PLANTING

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Work Planting shall be completed by the Contractor.
- B. Work in this section consists of furnishing all labor, equipment, and materials to establish trees, shrubs, and hardwood cuttings as noted on the Plans. Any substantive variance to this specification due to unforeseen conditions encountered on the site, weather conditions, plant availability, other construction activities, etc. must be approved by Construction Manager.
- C. Areas outside the limit of disturbance to be protected from damage. Any disturbance of trees, shrubs, or wetland areas outside the limit of disturbance shown on the Plans to be restored.

1.2 DEFINITIONS

- A. Establishment Period—A period when planting Work has been performed and initially accepted, and there is a Contract requirement to care for the planted areas in some way until the period ends.
- B. Native Plant (existing)—A variety of plant species occurring in its natural habitat without direct or indirect human actions.
- C. Noxious Weed—All weed designated by the Washington State Weed Board as injurious to public health, agriculture, recreation, wildlife, or all public or private property. The Washington Department of Agriculture (WDA) will be the authority in determination of noxious weed species.
- D. Riparian—Related to the bank, shore, or water-influenced areas of a watercourse or water body.
- E. Sensitive Areas—Defined areas such as Wetlands, natural water and riparian resources, special environmental zones, or where certain activities are restricted such as the use of chemicals.
- F. Specified Weeds—All noxious weeds as defined above, and all plant species identified in the Special Provisions or on the Plans as a species to be removed.

1.3 SUBMITTALS

- A. For all seed, the Contractor shall furnish the following documentation to the Construction Manager:
The state or provincial seed dealer license and endorsements.
- B. Copies of Washington State Department of Agriculture (WSDA) test results on each lot of seed.
Test results shall be within six months prior to the date of application.
- C. Submit certification before application of pesticide work begins, that when chemical weed control is used, that each applicator possesses a Washington Commercial Pesticide Applicator's License held in the individual's name. Submit a certification each time a new applicator begins application Work on the Project.
- D. Submit plant, seed, mulch, and pesticide product information prior to arrival of materials on site.

1.4 DELIVERY INSPECTION, STORAGE AND HANDLING

- A. The Contractor shall provide all planting equipment, hand tools, bags, and other necessary tools to perform planting and quality control. Heavy equipment utilized will be subject to an inspection prior to entry to the project site to ensure that it is clean and free of noxious weed seeds. Hand planting tools shall be long enough and wide enough to accommodate planting the specified size of native plants in a satisfactory manner. Planting bags shall be deep enough and in a condition to provide for the care and protection of the native plants.
- B. During shipping, plants shall be packed to provide protection against climate extreme, breakage and drying. Proper ventilation and prevention of damage to bark, branches, and root systems, must be ensured.
- C. Plants shall be delivered as close to planting locations as possible. Plants in storage must be protected against any condition that is detrimental to their continued health and vigor.
- D. Contractor shall take precautions to keep roots and stems moist during the planting operation and throughout the period that plants are stored on-site. Shipping containers containing native plants shall be opened only in full shade and shall not be exposed to direct sunlight.
- E. Plant materials shall not be handled by the trunk, limbs, or foliage but only by the container, ball, box or other protective structure. Plants shall have durable, legible labels stating correct scientific name and size. Ten percent of container grown plants in individual pots shall be labeled. Plants supplied in flats, rack, boxes, bags, or bundles shall have one label per group.
- F. Native plants are to be planted or prepared without further root or top pruning or culling. If pruning or culling appears necessary, or if mold, dry roots, evidence of injury or drying is seen, the condition shall immediately be reported to the Construction Manager.
- G. Contractor shall coordinate the delivery schedule with the Construction Manager.
- H. Plants will be inspected on-site by a Contracting Agency representative and possibly rejected for not meeting specification. Rejected plants must be removed immediately from site or red-tagged and removed as soon as possible. Rejected plants shall not be installed at the site.

PART 2 - PRODUCTS

2.1 INCIDENTALS

- A. Standard, incidental materials, products and equipment required to perform scope.

2.2 PLANT MATERIALS

- A. Plants shall be nursery grown in accordance with good horticultural practices under climatic conditions similar to or more severe than those of the project site within western Washington or as directed by the Construction Manager.
- B. Plants shall be true to species and variety or subspecies. No cultivars or named varieties shall be used.
- C. Plant species and size shall conform to those listed in the Plans or those supplied by the contractor.
- D. Container-Grown Plant Material:
 - 1. Containers shall include plastic pots, trays, or tubes (plugs).
 - 2. Plant material shall be grown in a container over time sufficient for new fibrous roots to have developed throughout the container and for the root mass to retain its shape and hold together when removed from the container.

3. Plants must be true to container size and shall be grown in the specified container size for a period of no less than one growing season prior to delivery. Plants shall not be excessively root bound.

E. Live Stakes:

1. Cutting stock shall be gathered during the dormant period and installed within 7 calendar days of harvest or as authorized by the Construction Manager. Cuttings shall not be gathered if temperatures are below 32°F (0°C).
2. Cuttings shall be protected from sun, wind, freezing, drying or injury before and during planting. Cuttings shall be stored upright in water immediately after harvesting up until they are installed. Stored material shall be examined frequently for signs of disease and planted before dormant bud development.
3. Cuttings shall be a minimum of 24 inches long (as specified in the plant lists) making the bottom cut slanted and below a dormant bud, and the top cut straight, ½ to 1 inch above a dormant bud. The diameter of pieces reserved for planting shall not be less than ½ inch thick.
4. Cuttings shall be installed such that stems intercept groundwater during low-water periods.

F. Deciduous Trees:

1. Plants shall be of typical form for the specified species. Height of branching shall bear a relationship to the size and species of tree specified and with the crown in good balance with the trunk. The trees shall not be “poled” or the leader removed.

G. Deciduous Shrubs:

1. Plants shall be of typical form for the specified species. Acceptable plant material shall be well shaped, with sufficient well-spaced side branches, and recognized by the trade as typical for the species grown in the region of the project.

H. Coniferous Trees:

1. Plants shall be of typical form for the specified species. Coniferous trees shall not be “poled” or the leader removed.

I. Seed Mix:

1. The emergent seed mix shall be as follows. The Contractor can submit an alternative mix for approval.

The following percentages are by weight of Pure Live Seed, applied at a rate of 40lbs per acre:

15% Slough Sedge (*Carex obnupta*)

15% Small-fruited Bulrush (*Scirpus microcarpus*)

20% Slender rush (*Juncus tenuis*)

20% Northwestern Mannagrass (*Glyceria occidentalis*)

10% Tufted Hairgrass (*Deschampsia cespitosa*)

10% Red Fescue (*Festuca rubra*)

10% Alsike Clover (*Trifolium hybridum*)

PART 3 - EXECUTION

3.1 PLANTING TIME AND CONDITIONS

- A. All plant material specified below the OHWM shall be installed by September 16th, matching the limit of the in water work window.
- B. The remaining planting above the OHWM shall adhere to the following schedule:
 - 1. Non-irrigated plant material shall be installed between October 1 and March 1.
 - 2. Deciduous plant material shall be installed between October 15 and November 30.
 - 3. Evergreen plant material shall be installed between October 15 and November 30.
 - 4. Cutting plant material shall be gathered and installed from October 15 to November 30.
- C. When drought, excessive moisture, frozen ground, expected freezing air temperatures or other unsatisfactory conditions prevail, planting installation shall be discontinued or as otherwise directed by the Construction Manager.

3.2 LIVE STAKE TRENCH PLANTING

- A. Trenches shall be up to 18 inches wide and deep enough to intercept shallow groundwater during low-flow conditions and at least 18 inches deep, as indicated on the Plans.
- B. When obstructions below ground affect the work, Contractor shall propose adjustments to plant material location, type of plant and planting method for review and approval by the Owner's Representative.
- C. Materials excavated shall be stockpiled on the side of the trench away from the stream.
- D. All plant material shall be set plumb and held in position until sufficient soil has been firmly placed around the stem. The base of the plant shall be level with the surrounding ground.
- E. Trenches shall be backfilled by hand to minimize root/stem damage and to limit air pockets near the roots.
- F. All plantings shall be watered immediately after backfilling, until saturated.
- G. Deciduous plant material shall be installed from October 15 to November 30.

3.3 PLANTING

- A. Plant layout shall be done as indicated on the Plans.
- B. When obstructions below ground affect the work, the Contractor shall propose adjustments to plant material location, type of plant and planting method.
- C. Plant pits for container plant material shall be dug to a depth equal to the height of the root mass as measured from the base of the root mass to the base of the plant trunk. Plant pits for bare-root

plant material shall be dug to a depth equal to the height of the root system. All plant pits shall be dug at least twice as wide as the root mass or root system to allow for root expansion. The sides of planting pits to be roughened to encourage root spread.

- D. All plant material to be set plumb and held in position until sufficient soil has been firmly placed around root system or ball. The base of the plant to be level with the surrounding ground.
- E. Containerized plants shall be removed from their containers and the root mass gently loosened to prevent root-bound conditions.
 - 1. The base of containerized plants to be set at the same grade as the surrounding soil; no roots should be exposed after planting. The base of containerized plants shall not be buried deeper than final grade.
 - 2. Prior to setting the plant in the pit, a maximum one fourth depth of the root mass, measured from the bottom, to be spread apart to promote new root growth. Do not compact soil around plant.
 - 3. Water each plant thoroughly after installed, ensuring the roots become saturated. the Contractor may add soil as necessary to replace any fill that settles below final grading during watering.
- F. For cuttings, prepare a pilot hole into the soil with rebar (slightly smaller diameter than cutting) if cutting cannot be easily installed into the ground. Cuttings shall be inserted, angled end down 18 inches below ground leaving a minimum of 1-foot above ground and a minimum of one to two dormant buds above ground.
- G. All plantings to be watered immediately after backfilling until saturated.

3.4 MAINTENANCE AND IRRIGATION/WATERING

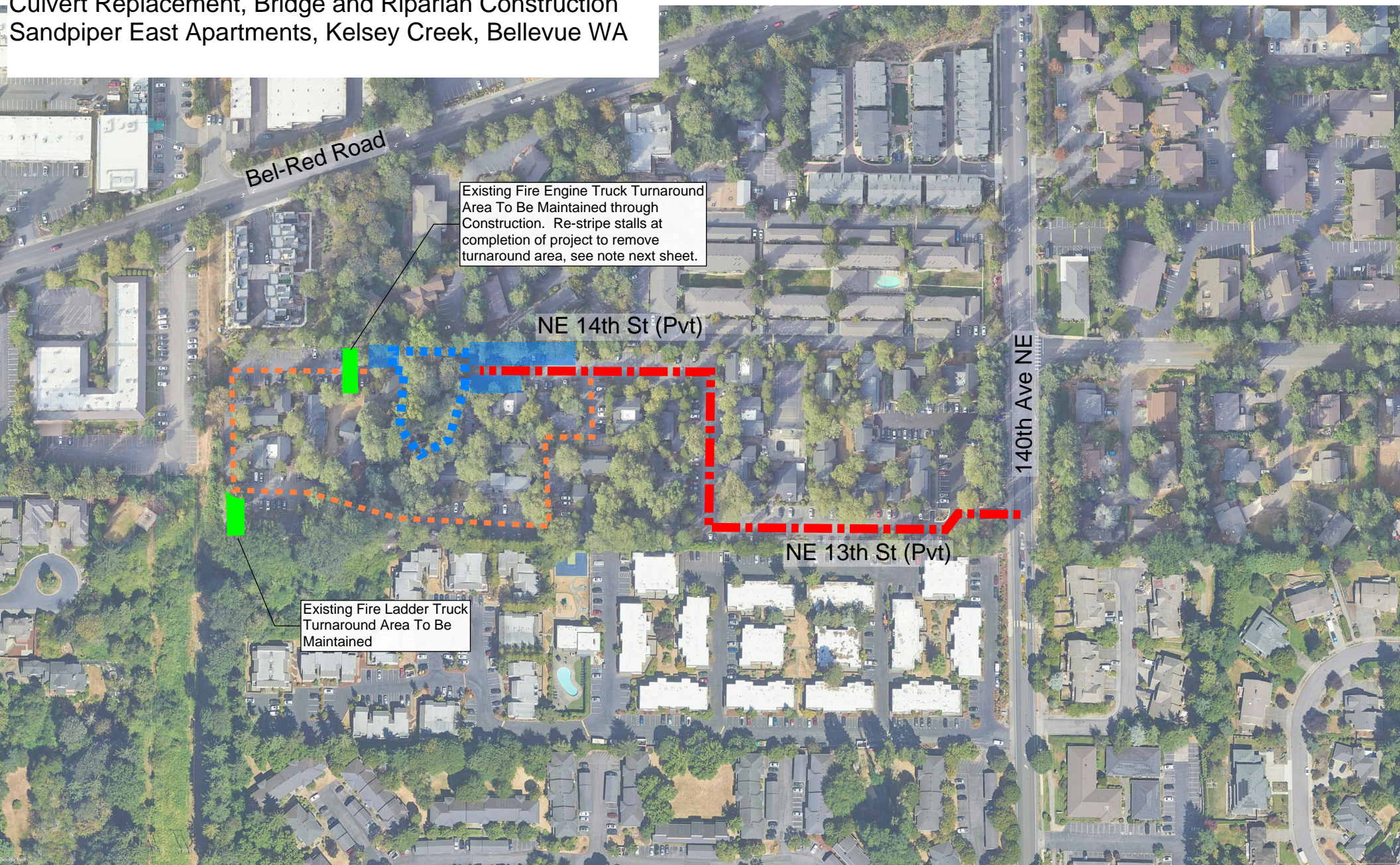
- A. Plant material installed in the initial phase of planting to be maintained in a healthy growing condition during installation. Installed plants shall be maintained to foster establishment.
- B. The site shall be maintained by the contractor for 12 months after planting is finished. Maintenance of plant material to include straightening plant material, pruning dead or broken branch tips; watering; eradicating weeds, insects and disease; documenting and control of invasive species; control of planted grasses to prevent competition with planted trees; and removing and replacing installed plants that are unhealthy and/or have been physically damaged beyond full recovery. Maintenance will also include removal of litter or other coarse material that inhibits growth and establishment of installed plants.
- C. At least one site visit will occur within two weeks of planting to make any adjustments to plant material. Additional visits may be required for watering and plant replacement.
- D. The plant material will be watered as necessary to prevent desiccation and to maintain an adequate supply of moisture within the root zone, until the end of November. An adequate supply of moisture is estimated to be the equivalent of 0.5-inch absorbed water per week, delivered in the form of rain or augmented by watering. Runoff, puddling and wilting from the watering operations to be prevented. Watering of other adjacent areas or existing plant material to be prevented.
- E. Noxious weeds and persistent non-native plants that inhibit growth and establishment of installed vegetation may be removed by hand. Invasive species in the restored areas may be controlled. Spring and fall inventories for invasive species to be taken for the 12-month period following restoration. Planted grasses to be controlled such that they do not compete with the planted trees.

- F. When settling occurs to the backfill soil mixture, additional backfill soil to be added to the plant pit or plant bed until the backfill level is equal to the surrounding grade. Serious settling that affects the setting of the plant in relation to the maximum depth at which it was grown requires replanting.
- G. A tree will be considered unhealthy or dead when the main leader has died back, or 25 percent or more of the branches have died. A shrub will be considered unhealthy or dead when 25 percent or more of the plant has died. Herbaceous plants shall be considered unhealthy or dead when the crown has not produced leaves or shoots during the growing season, or when the crown appears dried or decayed. Unhealthy or dead plant material to be replaced prior to the following growing season.

END OF SECTION

SITE ACCESS AND STAGING AREAS

Culvert Replacement, Bridge and Riparian Construction
Sandpiper East Apartments, Kelsey Creek, Bellevue WA



 Staging/laydown, see next page

 Project Disturbance Limits

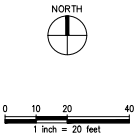
 Fire Truck Turnaround Areas to Remain

 Haul Route

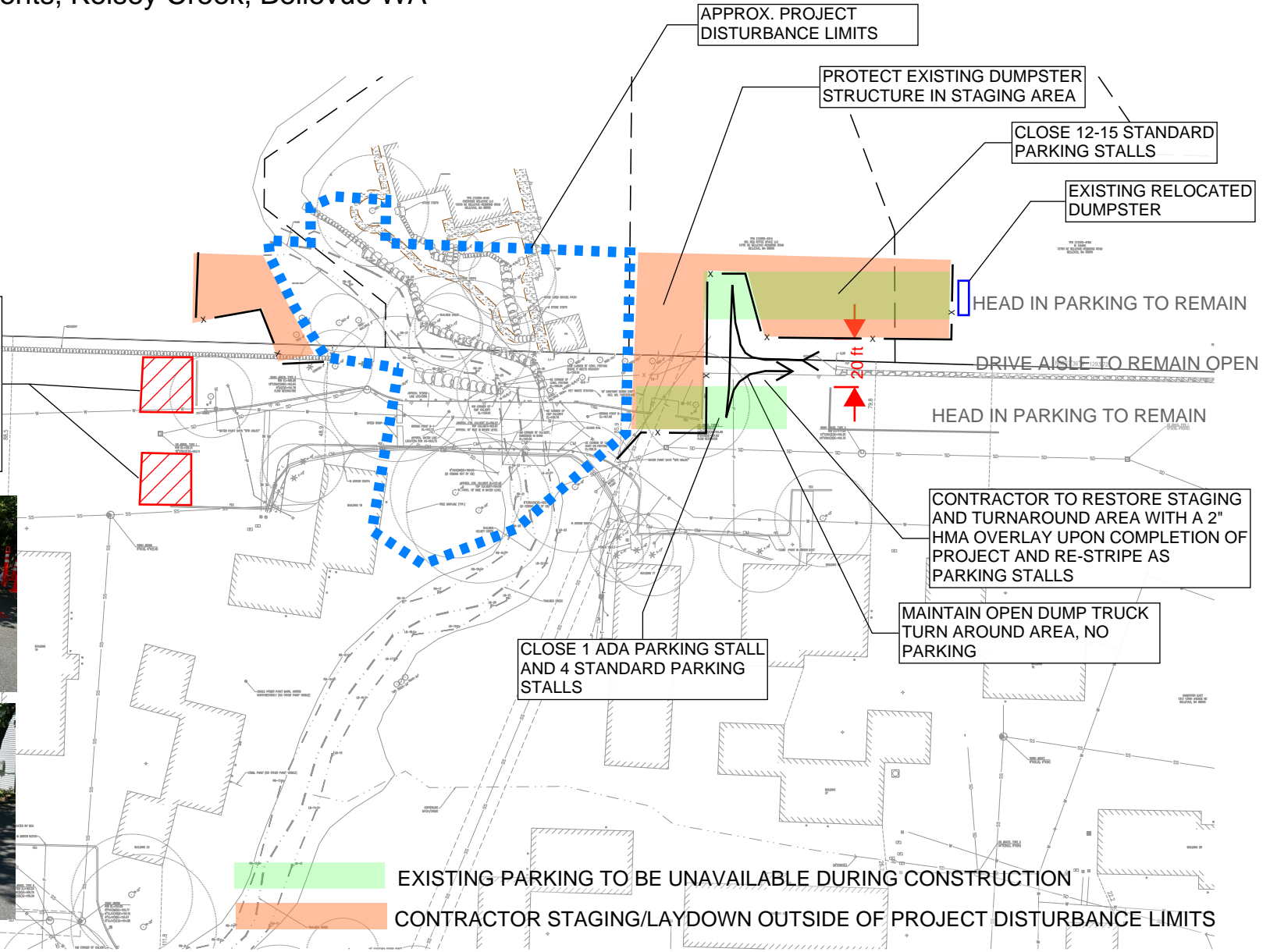
 Apartment Detour Route

STAGING/LAYDOWN ENLARGEMENT

Culvert Replacement, Bridge and Riparian Construction
Sandpiper East Apartments, Kelsey Creek, Bellevue WA



MAINTAIN INTERIM FIRE DEPARTMENT TURNAROUND DURING CONSTRUCTION. AFTER COMPLETION OF PROJECT, APPLY BLACK OUT PAINT TO FIRE LANE MARKINGS AND RE-STRIPE AS PARKING STALLS. SEE IMAGES BELOW OF EXISTING CONDITION.



APPROX. PROJECT DISTURBANCE LIMITS

PROTECT EXISTING DUMPSTER STRUCTURE IN STAGING AREA

CLOSE 12-15 STANDARD PARKING STALLS

EXISTING RELOCATED DUMPSTER

HEAD IN PARKING TO REMAIN

DRIVE AISLE TO REMAIN OPEN

HEAD IN PARKING TO REMAIN

CONTRACTOR TO RESTORE STAGING AND TURNAROUND AREA WITH A 2" HMA OVERLAY UPON COMPLETION OF PROJECT AND RE-STRIPE AS PARKING STALLS

MAINTAIN OPEN DUMP TRUCK TURN AROUND AREA, NO PARKING

CLOSE 1 ADA PARKING STALL AND 4 STANDARD PARKING STALLS

EXISTING PARKING TO BE UNAVAILABLE DURING CONSTRUCTION

CONTRACTOR STAGING/LAYDOWN OUTSIDE OF PROJECT DISTURBANCE LIMITS

BRIDGE GENERAL NOTES

- ALL MATERIAL AND WORKMANSHIP SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE PROJECT SPECIFICATIONS AND THE WASHINGTON STATE DEPARTMENT OF TRANSPORTATION "STANDARD SPECIFICATIONS FOR ROAD, BRIDGE AND MUNICIPAL CONSTRUCTION," DATED 2024, AND PROJECT SPECIAL PROVISIONS.
- ALL DIMENSIONS ARE HORIZONTAL OR VERTICAL UNLESS OTHERWISE SHOWN.
- THE CONTRACTOR SHALL PLAN AND CONDUCT THE WORK IN SUCH A MANNER THAT NO OBJECTS OR FOREIGN MATERIALS FALL FROM THE WORK ON THE EXISTING OR NEW BRIDGE TO THE CREEK CHANNEL BELOW. ALL WORK ASSOCIATED WITH THIS CONTAINMENT SYSTEM SHALL BE CONSIDERED INCIDENTAL TO THE CONTRACT.
- THE EXISTING CULVERT IS LOAD RESTRICTED. THE NORTH HALF OF THE ROADWAY OVER THE CULVERT IS CLOSED. LOADING ON THE SOUTH HALF OF THE ROADWAY SHALL BE LIMITED TO A SINGLE VEHICLE WITH A TOTAL WEIGHT OF 5 TONS OR LESS. THE CONTRACTOR SHALL PROVIDE ADEQUATE SHORING AND BRACING OF ALL STRUCTURAL MEMBERS AND EXCAVATIONS. SHORING AND BRACING SHALL CONSIDER THE SEQUENCE OF WORK AND NOT BE REMOVED UNTIL ALL FINAL CONNECTIONS ARE COMPLETE AND MATERIALS HAVE ACHIEVED THEIR DESIGN STRENGTH. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ALL SAFETY, STABILITY, METHODS, TECHNIQUES, SEQUENCES, AND PROCEDURES REQUIRED TO PERFORM THE WORK.

THE WEST SIDE OF KELSEY CREEK CAN BE ACCESSED VIA NE 13TH STREET.
- THE STRUCTURE DESIGN IS IN ACCORDANCE WITH THE REQUIREMENTS OF THE AASHTO LRFD BRIDGE DESIGN SPECIFICATIONS 9TH EDITION, 2020, AND AASHTO GUIDE SPECIFICATIONS FOR LRFD SEISMIC BRIDGE DESIGN, 2ND EDITION, 2011 WITH INTERIMS THROUGH 2015.
- THE GEOTECHNICAL ENGINEERING REPORT, SANDPIPER EAST APARTMENTS – KELSEY CREEK CROSSINGS, DATED NOVEMBER 15, 2023 IS THE BASIS FOR THE DESIGN.
- THE HYDRAULIC ENGINEERING BASIS OF DESIGN REPORT, KCHA FLOOD CONTROL IMPROVEMENTS, SANDPIPER EAST – NORTH CROSSING, DATED APRIL 1, 2023 IS THE BASIS FOR THE DESIGN.
- THE STRUCTURE SEISMIC DESIGN USES:

PGA	=	0.56g
A _s	=	0.61g
S _{ps}	=	1.31g
S _{pt}	=	0.84g
SITE CLASS	=	D
- DESIGN LOADS:

<u>DEAD LOAD:</u>	
CONCRETE, UNLESS NOTED OTHERWISE	155 PCF
PRECAST, PRESTRESSED CONCRETE GIRDERS	165 PCF
ASPHALT OVERLAY	140 PCF
<u>LIVE LOAD:</u>	
VEHICLE	AASHTO HL93 WITH IMPACT
- UNLESS OTHERWISE SHOWN IN THE PLANS THE CONCRETE COVER MEASURED FROM THE FACE OF THE CONCRETE TO THE FACE OF ANY REINFORCING STEEL SHALL BE 3 INCHES AT CONCRETE CAST AGAINST EARTH, AND 1 1/2 INCHES AT ALL OTHER LOCATIONS.
- CONCRETE SHALL BE CLASS 4000 UNLESS NOTED OTHERWISE BELOW.

END DIAPHRAGM	CLASS 4000
BRIDGE RAILING CURB	CLASS 4000
- CONCRETE STEEL REINFORCING SHALL BE ASTM A706, GRADE 60, UNLESS NOTED OTHERWISE.
- THE COLOR OF PIGMENTED SEALER FOR CONCRETE SURFACES SHALL BE WASHINGTON GRAY.
- ALL EXTERIOR CORNERS AND EDGES SHALL HAVE A 3/4" CHAMFER AND ALL INTERIOR CORNERS SHALL HAVE A 3/4" FILLET UNO.
- BRIDGE RAILING TYPE 3-TUBE, SEE BRIDGE RAILING SHEETS FOR NOTES.

TEMPORARY STRUCTURAL SHORING NOTES

- ALL COSTS IN CONNECTION WITH THE CONTRACT REQUIREMENTS DESCRIBED IN THESE NOTES SHALL BE INCLUDED IN THE BID ITEM "TEMPORARY STRUCTURAL SHORING AND MONITORING" AND WILL NOT BE PAID SEPARATELY.
- THE PRIMARY SHORING SYSTEM SHALL CONSIST OF A DRILLED SOLDIER PILE SYSTEM. USE OF AN ALTERNATIVE SYSTEM REQUIRES APPROVAL BY THE ENGINEER.
- THE TOP OF THE TEMPORARY STRUCTURAL SHORING SHALL BE AT OR ABOVE EXISTING GRADE.
- WHEN THE WORK IS COMPLETE, THE CONTRACTOR SHALL REMOVE STRUCTURAL SHORING AT THE SOUTH SIDE OF ABUT 1 TO A DEPTH OF 2 FEET BELOW THE FINISH GROUND LINE. THE REMAINDER OF THE STRUCTURAL SHORING AT THE SOUTH SIDE OF ABUT 1 SHALL BE REMAIN IN PLACE. OTHER LOCATIONS OF STRUCTURAL SHORING CAN BE REMOVED IN THEIR ENTIRETY AT THE CONTRACTOR'S OPTION.
- SHORING MONITORING
 - PRECONSTRUCTION SURVEY. PRIOR TO CONSTRUCTION, THE CONTRACTOR SHALL COMPLETE A WRITTEN AND PHOTOGRAPHIC LOG OF THE EXISTING CONDITION OF THE BUILDINGS ADJACENT TO THE PROPOSED BRIDGE. IT SHALL INCLUDE CONDITIONS THAT MIGHT BE MISCONSTRUED AS DAMAGE CAUSED BY THE ABSENCE OF, THE INSTALLATION OF, OR THE PERFORMANCE OF EXCAVATION SUPPORT AND PROTECTION SYSTEMS. THE SURVEY SHALL INCLUDE, AT A MINIMUM, THE BUILDINGS AT THE SOUTHWEST AND SOUTHEAST CORNERS OF THE PROPOSED BRIDGE. A LICENSED SURVEYOR SHALL DOCUMENT ALL EXISTING SUBSTANTIAL CRACKS IN EXISTING STRUCTURES. CRACK GAUGES MAY BE REQUIRED BY THE ENGINEER. THIS SURVEY SHALL BE SUBMITTED AS A TYPE 1 SUBMITTAL BEFORE THE START OF SHORING INSTALLATION.
 - SURVEY POINTS SHALL BE ESTABLISHED NEAR THE TOP OF THE SHORING WALL AT 15-FOOT INTERVALS. SURVEY POINTS SHALL ALSO BE ESTABLISHED ON THE ADJACENT BUILDINGS TO THE SOUTHWEST AND SOUTHEAST. THERE SHALL BE A MINIMUM OF THREE POINTS ON EACH BUILDING, SPACED AT A MINIMUM OF 15 FEET. THE LOCATION OF THESE POINTS SHALL BE IDENTIFIED IN THE STRUCTURAL SHORING SUBMITTAL.
 - MONITORING OF SURVEY POINTS SHALL INCLUDE VERTICAL AND HORIZONTAL MEASUREMENTS ACCURATE TO AT LEAST 0.01 FEET. THE FREQUENCY OF THE READINGS IS DEPENDENT ON THE CONSTRUCTION STAGE, AS NOTED BELOW:

CONSTRUCTION STAGE	MONITORING FREQUENCY
DURING EXCAVATION AND UNTIL WALL MOVEMENTS HAVE STABILIZED	TWICE WEEKLY
DURING EXCAVATION IF LATERAL WALL MOVEMENTS EXCEED D2 (SEE TABLE BELOW), OR AT THE DISCRETION OF THE ENGINEER	DAILY AT MINIMUM
AFTER EXCAVATION IS COMPLETE AND WALL MOVEMENTS HAVE STABILIZED, IF THE DATA INDICATES LITTLE OR NO MOVEMENT	WEEKLY
 - ESTABLISH A BASELINE READING OF THE LOCATION AND ELEVATION OF THE MONITORING POINTS BEFORE SHORING INSTALLATION. ESTABLISH A BASELINE READING OF THE MONITORING POINTS ON THE SHORING WALL PRIOR TO BEGINNING EXCAVATION.
 - SUBMIT SURVEY DATA TO THE GEOTECHNICAL ENGINEER AND CONTRACTOR'S SHORING ENGINEER WEEKLY. THE ENGINEER AND CONTRACTOR'S SHORING ENGINEER OF RECORD SHALL BE IMMEDIATELY NOTIFIED IF ANY UNUSUAL OR SIGNIFICANT INCREASE IN MOVEMENT OCCURS.
 - THE GEOTECHNICAL ENGINEER SHALL REVIEW SURVEY DATA AND PROVIDE AN EVALUATION OF WALL PERFORMANCE, ALONG WITH THE SURVEY DATA, TO THE ENGINEER AND THE CONTRACTOR'S SHORING ENGINEER OF RECORD ON AT LEAST A WEEKLY BASIS.
 - MONITORING SHALL CONTINUE UNTIL THE BACKFILL IS COMPLETE UP TO FINAL GRADES AND TERMINATION IS REVIEWED AND APPROVED BY THE ENGINEER AND GEOTECHNICAL ENGINEER.
 - AFTER SUBSTANTIAL COMPLETION, THE CONTRACTOR SHALL PERFORM A POST-CONSTRUCTION SURVEY FOR ALL FACILITIES FOR WHICH A PRE-CONSTRUCTION CONDITION SURVEY WAS PERFORMED. THE POST CONSTRUCTION CONDITION SURVEY SHALL IDENTIFY ALL CHANGES FOUND IN THE CONDITION OF THE FACILITY. THE POST-CONSTRUCTION SURVEY SHALL BE DOCUMENTED IN A POST-CONSTRUCTION SURVEY REPORT AND SUBMITTED AS A TYPE 2 SUBMITTAL.

TEMPORARY STRUCTURAL SHORING NOTES (CONT)

- SHORING DEFLECTION LIMITS AND MITIGATION MEASURES. SEE THE TABLE BELOW FOR D1 AND D2 VALUES FOR EACH SHORING WALL.

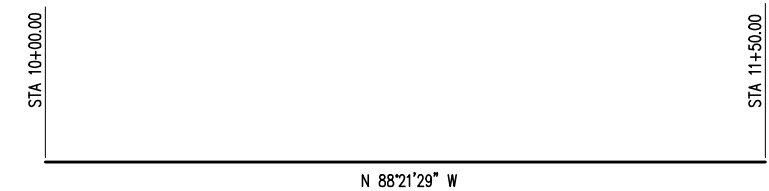
 IF LATERAL MOVEMENTS OF THE SHORING WALL EXCEEDS D1 OF TOTAL MOVEMENT OR D1 OF MOVEMENT OCCURS BETWEEN TWO CONSECUTIVE READINGS, STOP CONSTRUCTION OF THE SHORING WALL IN THE VICINITY OF THE AFFECTED PORTION OF WALL. IMMEDIATELY AND DIRECTLY NOTIFY THE ENGINEER, GEOTECHNICAL ENGINEER, AND CONTRACTOR'S SHORING ENGINEER OF RECORD.

 THE CONTRACTOR, ENGINEER, AND GEOTECHNICAL ENGINEER SHALL DETERMINE THE CAUSE OF DISPLACEMENT AND DEVELOP REMEDIAL MEASURES SUFFICIENT TO LIMIT WALL MOVEMENTS TO D2. THESE MEASURES MAY CONSIST OF INTERNAL BRACING (I.E. WALES AND RAKERS) AND/OR SOIL BERMING.

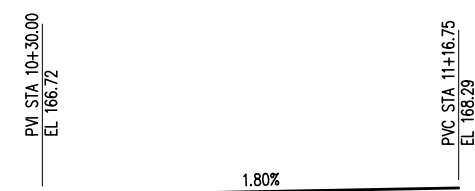
 THE FREQUENCY OF SHORING MONITORING SHALL BE INCREASED TO ONCE PER DAY UNTIL DIRECTED OTHERWISE BY THE GEOTECHNICAL ENGINEER.

 IF LATERAL MOVEMENT OF THE SHORING WALL EXCEEDS D2 TOTAL MOVEMENT, BERM SOIL AGAINST THE SUBJECT WALL TO ARREST THE WALL MOVEMENT AND NOTIFY THE ENGINEER IMMEDIATELY.

DEFLECTION LIMITS		
SHORING WALL	D1	D2
ABUT 1 SOUTH SIDE	0.5 INCH	1.0 INCH
ABUT 1 NORTH SIDE	1.0 INCH	2.0 INCH
ABUT 2 NORTH SIDE	1.0 INCH	2.0 INCH
- A SHORING PRECONSTRUCTION MEETING SHALL BE HELD AT LEAST 5 WORKING DAYS PRIOR TO THE INSTALLATION OF SHORING AND START OF EXCAVATION. ATTENDEES SHALL INCLUDE REPRESENTATIVES OF THE ENGINEER, THE GENERAL CONTRACTOR, THE EXCAVATION AND SHORING CONTRACTORS, THE GEOTECHNICAL ENGINEER, AND INSPECTION PERSONNEL. THE MEETING SHALL REVIEW THE STRUCTURAL SHORING SUBMITTAL AND THE REQUIREMENTS OF THESE NOTES.
- TIEBACKS ASSOCIATED WITH TEMPORARY STRUCTURAL SHORING SHALL BE DE-TENSIONED AND ABANDONED IN PLACE.

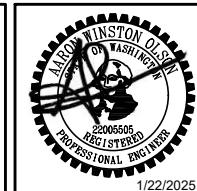


N-LINE ALIGNMENT AT BRIDGE



N-LINE PROFILE AT BRIDGE

FOOTING, FACTORED BEARING CAPACITY	
STRENGTH	12.96 KSF
EXTREME	20.11 KSF
SERVICE	29.51 KSF



NO.	DATE	BY	REVISION
1	1/22/2025	RCL	ADDENDUM 4



CULVERT REPLACEMENT, BRIDGE AND RIPARIAN CONSTRUCTION
SANDPIPER EAST APARTMENTS, KELSEY CREEK, BELLEVUE, WA

NE 14TH ST BRIDGE
BRIDGE GENERAL NOTES

DRAWN: RRT	PROJECT NO.: 2200204
DESIGN: RCL	SCALE: AS SHOWN
CHECKED: AWO	DATE: 11-2024
DRAWING NO.	S02
SHEET NO.	OF 38

Plan Holders List

Name	Email	Phone	Company	Type
Al Schumacher	aschumacher@jjhearthworks.com	2069638225	JJH Earthworks	General Contractor
OMA Construction, Inc.	b.akers@omaconstruction.com	2062621721	OMA Construction, Inc.	OMA Construction, Inc.
Beau christopherson	Beau@precisionoutdoors-llc.com	4256267670	Precision outdoors	Excavation
Granite Construction Company	bid.everett@gcinc.com	425-551-3100	Granite Construction Company	General
Mark Michalak C/O The Walsh Group	bid.wacivil@walshgroup.com	2063947300	Walsh Construction Company II, LLC	Civil Construction
Ryan Mitchell	bid@imcoconstruction.com	3606713936	IMCO Construction	General Contractor - Heavy Civil
Kailey Casey	bidinfo@tcplancenter.com	5095827424	Tri-City Construction Council	Tri-City Construction Council
Sarah Freeland	bids@interwest.biz	360-757-7574	Interwest Construction, Inc.	General Contractor
Estimating	bids@klbconstruction.com	4252979318	KLB Construction, LLC	Earthwork, underground utilities
Steve McClung	Bids@mcclungconstruction.com	360-761-7695	Mike McClung Construction Co	Construction
Ben Ashworth	Bids@razzconstruction.com	3608158126	Razz Construction, Inc.	Civil Construction Contractor
Matthew George Wagester	bids@rcnw.com	4252549999	Road Construction Northwest, Inc.	GC
Jake Oullette	bids@stellarj.com	3602257996	Stellar J Corporation	General Contractor
Brie Kidwell	brie@plancenternw.com	503-650-0148	Plan Center Northwest	Plan Center
David A Peterson	davidp@activeconstruction.com	2532481091	Active Construction Inc	General Contractor
Source Management	deltekplusonvia@gmail.com	2063739500	Onvia	Onvia
Derek Compton	derek.compton@grahamus.com	3609271529	Graham Contracting Ltd.	General Contractor
Dustin Slimp	dustins@eastslopeearthworks.com	5098997056	East Slope Earthworks	GC
BILL KARLE	ESTIMATING@HIGHMARKCC.COM	2533777012	HIGHMARK CONCRETE CONTRACTORS	GENERAL CONTRACTOR
Andy Smith	estimating@johansenci.com	3608296493	Johansen Construction Company	Johansen Construction Company
Charlotte Baskett	estimating@nwcascade.com	253-848-2371	Northwest Cascade Inc	General Contractor

Nicole Ballew	Estimating@outwestlandscape.com	3608632797	Out West Landscape & Irrigation Inc.	SUB Landscape construction
Gary Batt	gbatt@customrock.com	7606029200	Custom Rock Formliners	Manufacturer Formliners
Albert Eli	info@caestimatingsolutions.com	209-566-2455	CA Estimating Solutions	Consultant
Ron Jones	info@freshfamilyco.com	2067476890	Fresh Family LLC	construction \ hazardous waste removal
Humayun Aziz	info@mzbinc.com	9492544792	mzb eng inc	mzb eng inc
Joanna Rector	j.rector@pacificsteelgroup.com	8582511100	Pacific Steel group, LLC	LLC
James Phillips	jamesp@klbconstruction.com	4257544820	KLB Construction	For Profit
jayalakshmi jayalakshmi	jayalakshmi@construction.com	04133767032	Dodge Data & Analytics	Dodge Data & Analytics
Jared Koester	jkoester@midmtn.com	206-300-9172	MidMountain Contractors Inc.	Prime Contractor
John Gadberry	johng@earthworksolutions.com	4255015483	Earthwork Solutions	Earthwork Solutions
Michael Keyser	Keyserm@massanaconstruction.com	253-250-9832	Massana Construction Inc.	General Contractor - Heavy Highway Civil
Kurt Larson	kurt@zemekconstruction.com	2068495812	Zemek Construction	Subcontractor
Levi Nyberg	levi@highlinewa.com	360-319-9737	Highline Construction	Construction
Russell MacKay	mackayland@aol.com	425-771-3639	MacKay Landscape Serices LLC	LLC
Matthew Wagester	matt@rcnw.com	425-254-9999	Road Construction Northwest, Inc.	GC
max	maxs@pmowllc.com	4254952464	pmow	GC
MICHAEL J CAPLIS	Mick.westwater@comcast.net	4258913362	Westwater Construction company	general contractor
Michael S Achirmer Jr.	mschirmer@reigncityservices.com	2064574059	Reign City Services, LLC	Civil and Electrical
Nathan Dodson	nathan@ironcreekconstruction.com	4258305979	Iron Creek Construction LLC	General Contractor
Neet	neet@nwdumpsters	206-609-5813	NW Dumpsters	Certified Rental Dumpster service
Peter Heltzel	pheltzel@facetnw.com	4258225242	Facet	Facet
Plan Room	plancenter@djcoregon.com	5032740624	DJC Project Center	Other
Alex L	plans@dj.com	2066228272	Seattle Daily Journal of Commerce	Seattle Daily Journal of Commerce
Tina Spah	production@bxwa.com	425-258-1303	Builders Exchange of Washington, Inc.	Plan Center
Robyn Stevens	projectinfo@plancenter.net	509-328-9600	Spokane Regional Plan Center	Spokane Regional Plan Center

Jacob Zacharda	pwbids@kraemerna.com	4253955755	Kraemer North America	General Contractor
Robyn Johnson	robyn@bayshoreco.com	425-870-3407	Bayshore Construction Company	General Contractor
Ryan Thody	ryan.thody@dbmcontractors.com	2538381402	DBM Contractors, Inc.	DBM Contractors, Inc.
Ryan Burks	ryanb@activeconstruction.com	2532481091	Active Construction Inc.	Prime Contractor
Derrick Sas	sascon.dl@gmail.com	2536511374	SASCON, LLC	SASCON, LLC
Scott Jonas	scott.jonas@constructconnect.com	5134585892	Construct Connect	Construct Connect
Scott Nelson	scottn@scougalrubber.com	2066869190	Scougal Rubber Corp	Bearing manufacturer
luis yepez	sunsetwel@yahoo.com	4253510839	Sunset Company	Sunset Company
Francisco Mena	Topnotchalaska49@gmail.com	4255590544	Top Notch Contractors Inc.	General Contractor
Venkatesh Siva	venkatesh@blackridgeresearch.com	9179937467	Blackridge Research & consulting	Blackridge Research & consulting
Vern Orr	VOrr@spec.land	2069191316	Specialized landscape	General Contractor