

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Work includes but is not limited to the following:
 - 1. Establish clearing limits and vegetation to remain.
 - 2. Installation and maintenance of temporary erosion control facilities through project completion.
 - 3. Clearing and grubbing site of trees, shrubs, root masses, and other vegetation and organic soils.
 - 4. Removal of structures, slabs, foundations, pavements and other improvements.
 - 5. Removal and disposal of materials from site according to regulatory requirements.
 - 6. Protect from harm any trees, vegetation, existing structures, utilities, pavements, sidewalks, curbs, or other objects selected to remain.
 - 7. Furnish services and equipment as required.

1.2 RELATED SECTIONS

- A. Drawings and general provisions of Contract, including Supplementary Conditions and Division 1 Specification Sections, apply to this section. Coordinate related work specified in other parts of the Project Manual, including but not limited to following:
 - 1. 02500 - Temporary Erosion and Sediment Control.

1.3 REFERENCES

- A. This Section incorporates by reference the latest revisions of the following documents. They are part of this section insofar as specified and modified herein. The Contractor shall have one copy of each of the following documents at the job site. The bidder in submitting a bid acknowledges that he is familiar with the documents named in References and that they are incorporated into this document by reference. The Standard Plans and Policies apply only to performance and materials and how they are to be incorporated into the work. The legal/contractual relationship sections and the measurements and payment sections do not apply to this document.
 - 1. King County: 2005 Surface Water Design Manual (KCSWDM)
 - 2. Washington State Department of Transportation (WSDOT):
 - a. 2006 Standard Specifications for Road, Bridge, and Municipal Construction.
 - b. Standard Plans for Road, Bridge, and Municipal Construction, Current Edition
 - 3. American Public Works Association Standard Specifications
 - 4. Geotechnical Report: Burien Town Square – Private Development prepared by AMEC Earth & Environmental, Inc. dated April 6, 2006.

1.4 SUBMITTALS

- A. General: Comply with the appropriate Sections of Division 1.
- B. Submit demolition procedures and operational sequence for review and acceptance by Architect.
- C. Permits for transport and disposal of debris as required.

1.5 DESCRIPTION

- A. Construct and maintain erosion and sedimentation control in accordance with contract documents and City of Burien and King County requirements. Clear and grub site as indicated and as necessary to construct improvements. Save and protect from harm any trees, vegetation, or other objects selected to remain.

Remove from area to be cleared all other growth unless otherwise indicated or directed. All debris and organic material is to be removed from the site and disposed of properly.

1.6 EXISTING CONDITIONS

- A. Protection of Existing Improvements:
 - 1. Provide, erect, and maintain barricades, coverings, or other types of protection necessary to prevent damage to existing improvements.
 - 2. Restore any existing on or off-site improvements damaged by this work to their original condition, as acceptable to Architect. Restoration includes but is not limited to landscaping, pavement, walks, structures and fences.
 - 3. Restore to original grades and conditions, areas adjacent to site disturbed or damaged as a result of site preparation and demolition work.
- B. Objectionable Noises: Conform to local governing requirements regarding Noise Control.
- C. Maintain vehicular and pedestrian traffic routes:
 - 1. Ensure minimum interference with roads, streets and adjacent facilities.
 - 2. Do not close or obstruct streets, fire lanes, sidewalks, alleys or passageways without permission from authorities having jurisdiction.
 - 3. Obtain necessary Right Of Way permits to allow work and closures as required.
 - 4. If required by governing authorities, provide alternate routes around closed or obstructed traffic ways.
- D. Site Utilities
 - 1. Advise utility companies of excavation activities before starting excavations. Locate and identify underground utilities passing through work area before starting work.
 - 2. Coordinate with utility purveyors shut offs and removals or abandonments at least two weeks (10 working days) prior to work.
 - 3. If underground utilities are encountered in locations other than indicated, immediately advise utility owners before proceeding. Amend project record documents to show actual locations. Protect existing utilities not indicated to be removed.

1.7 DIMENSIONS AND LAYOUTS

- A. Furnish, set and mark all line and location stakes, including offsets and general construction staking. When work requiring control is being performed, all necessary related equipment, supplies and instruments shall be on site. A qualified layout engineer, surveyor, or technical specialist must be assigned to the Contractor's crew for this work. This equipment and personnel must be available, at no additional cost to the Owner for the purpose of verifying layout, conformance of grading design, and certifying the accuracy of work on the site.
- B. Preserve all benchmarks and stakes and provide for the replacement of any that are displaced or missing. Any monuments disturbed during construction are to be reset at the Contractor's expense.
- C. Review all utility purveyor, and City, County or State records relative to the existing underground utilities. Avoid damage to these facilities and restore all utilities at Contractor's expense.
- D. Notify the Owner's Representative immediately if underground utilities not shown on the project documents are encountered.

PART 2 - PRODUCTS

2.1 TEMPORARY FENCING

- A. Temporary chain link fencing: minimum 6-foot height, line posts at 8 foot on center maximum. Two-inch chain link mesh fence. Posts to be set on concrete blocks. Temporary gate posts to be embedded in earth minimum of 2'-6", driven mechanically. Include stabilized footing blocks, gates for each area enclosed and security measures with minimum chains and keyed padlocks.
- B. Orange clearing limits fencing: plastic mesh fencing, approximately 4 feet high, per City of Burien standards.

PART 3 - EXECUTION

3.1 EXAMINATION

- A. Verify limits of clearing, grubbing, and site improvement removal with Owner prior to commencing work.
- B. Obtain required permits and permission from local governing authorities and Owner prior to commencing work.
- C. Prior to beginning site removals and clearing, meet with Owner's Representative and review all proposed utility layouts on site. Indicate all existing trees, shrubs and landscaping as well as site improvements that will be affected by construction. Coordinate removals of landscape materials with Owner.

3.2 TEMPORARY EROSION CONTROL

- A. Refer to the temporary erosion and sedimentation control (TESC) requirements on the drawings and in Section 02500 Erosion Control. Adhere to all City of Burien and King County erosion control requirements. The more stringent requirement shall apply. Prevent erosion leaving the site from any portions of the site and/or from flowing onto adjacent property for the duration of the construction.

3.3 PROTECTION OF EXISTING ON-SITE OBJECTS

- A. Follow the additional measures noted in the contract documents to protect the existing trees adjacent to utility installations. Dig by hand or use air excavation (or other approved methods) for excavation within the tree protection zone. Mechanized equipment is not allowed. All roots encountered are to be cut with a saw and coated per Arborist direction, not ripped with equipment.
- B. Use all means necessary to protect existing elements of the site not designated to be removed. Protect adjacent property and the public from damage or injury.
- C. Do not drive, park or maneuver in any way heavy equipment or materials beyond the limits of clearing, unless previously coordinated with and approved by Owner's Representative and City.
- D. Notify owners of underground facilities at least four full business days prior to commencing any excavation. Provide a schedule of the excavation to all owners of the underground facilities as required by Section 2(12) of Chapter 144 Washington State Laws.
- E. Coordinate all work with Puget Sound Energy at least five working days before construction.
- F. Maintain and do not disturb, disconnect or damage all existing water, gas, irrigation, lighting, power, telephone, sewer, storm, or other surface/sub-surface structures that are not shown as being abandoned

or removed in the Documents. The Contractor, in the performance of the work, is responsible for all expenses arising from damaged utilities/structures.

- G. Maintain existing pavement for as long a period as possible in order to provide maximum erosion control protection.
- H. Maintain all roads, storm drains, sewer and water lines, except where closures are specifically required by the work and approved by the City. If required by the City, provide alternate routes around closed or obstructed traffic ways. Contractor is to coordinate and obtain approval for all haul routes with the City, prior to construction.
- I. Protect all trees designated to remain on the property. Replace with a tree of like size and quality any tree which is not designated for removal and which is destroyed, damaged, or disfigured by the Contractor because of careless negligence (in the opinion of the Architect) at no additional cost to the Owner. Protect all shrubs, plantings, and ground cover beyond the clearing limits or as shown to be protected in the documents.

3.4 SITE IMPROVEMENT REMOVALS

- A. Remove or abandon existing underground utilities below the proposed building structure, and as shown on plans. All materials that conflict with proposed improvements are to be removed. Dispose of all removed utilities as outlined in 3.8.
- B. Abandon existing underground utilities by plugging and as otherwise required in Standard Specifications Section 7-08.3(4) of WSDOT/APWA.
- C. Sprinkle excavated material and access roads as necessary to limit dust to lowest practicable level. Do not use water to extent causing flooding, contaminated runoff or icing.

3.5 DRAINAGE AND GROUNDWATER

- A. Install perimeter Temporary Erosion and Sedimentation Control (TESC) measures and flag or fence, as shown on plans, all clearing limits prior to clearing or grubbing of the site.
- B. Control all surface and sub-surface water in order to prevent damage to the project site and adjacent properties. Provide all means necessary to immediately resolve surface water drainage problems generated on the construction site. Protect disturbed areas from inclement weather and surface runoff during construction process to provide a suitable working platform for all phases of the construction. Provide proper grading to prevent standing water.
- C. Keep designated drainage ways open for drainage at all times. Provide temporary and permanent control of surface water and subsurface seepage to allow for site access, clearing and grading. Protect disturbed areas from inclement weather and surface runoff during construction to provide a suitable working platform for all phases of construction. Intercept and route around construction areas all ground water from upgradient sources, per the geotechnical recommendations. Read and follow the Geotechnical recommendations concerning sub-grade protection.
- D. Keep open pits and holes caused as a result of demolition work free of standing water. All water shall be discharged in a stabilized manner to the site TESC system. No sediment may leave the site, per Section 02500.
- E. Furnish, install, and operate all necessary machinery, appliances, and equipment to keep excavations free from water during construction. Dewater and dispose of the water so as to not cause damage to

public/private property or to cause a nuisance/menace to the public. Have at all times sufficient pumping equipment and machinery in good working condition for all ordinary emergencies, including power outages. Have available, at all times, competent workers for the operation of the pumping equipment.

- F. Control ground water to prevent softening of the base of the excavation or formation of quick conditions or boils during excavation. Design and operate dewatering systems so as to prevent removal of natural soils and to eliminate turbidity (i.e. suspended solids) of the discharge water.
- G. Keep all trenches, holes and pits free of water during clearing, grubbing, excavation, construction of structures and installation of drains. Control surface run-off so as to prevent collection of water in areas not indicated to hold run-off.
- H. Before beginning dewatering, if required, submit to the Architect a statement of the method, installation, and details of the dewatering system in accordance with Division 1.
- I. The release of ground water to its static level shall be performed in such a manner as to maintain the undisturbed state of the natural foundation soils, prevent disturbance of compacted backfill, and prevent floatation/movement of structures, pipelines, and sewers.

3.6 CLEARING

- A. The Contractor is to install perimeter Temporary Erosion and Sedimentation Control (TESC) measures and to install flagging or fencing, as shown on plans, of all clearing limits prior to clearing or grubbing of the site, per Section 02500 – Erosion Control. All water shall be contained in the site TESC system. No sediment may leave the site.
- B. Prior to site clearing and demolition, contact utility location service and have all underground utilities on the site and adjacent right of ways clearly marked. Locate flag and protect existing underground utilities to remain.
- C. Approximate locations of existing utilities have been obtained from available records and are shown for convenience. The contractor shall be responsible for verification of the locations shown and for discovery of possible additional utilities not shown so as to avoid damage or disturbance. The underground utility location service shall be contacted for field location prior to any construction. The Owner shall be contacted if a utility conflict exists.
- D. Specifically locate and establish clearing limits by physical means as required by the documents. The barrier fence shall be four (4) feet high and consist of welded wire or plastic fabric. A chain-link security fence shall also be allowed to establish the clearing limits.
- E. Clear areas of the site as required and designated for new construction. Remove trees and plantings in such a manner to protect those that are to remain. Cut and remove entire stumps of trees designated to be removed. Completely remove all roots, stumps, vegetation and all other organic debris within the clearing limits as required for new construction and as indicated on the documents.
- F. Save and protect trees indicated on plans to remain. Protect all off-site trees along adjacent roadways and on surrounding properties.
- G. Selectively remove specific trees flagged for removal outside of clearing limits, if identified by Architect.
- H. Dispose of clearing debris off site in a legal manner. Remove all debris and litter found on-site whether inside or outside the clearing limits.

3.7 DISPOSAL OF MATERIALS

- A. Remove all debris from the site. Leave the project area in a neat and orderly condition to meet the approval of the Owner/Owner's Representative. Make arrangements for the disposal of debris materials and protect the Owner/Owner's Representative from any and all damages arising there from. On-site debris burning will not be permitted.
- B. Haul all refuse resulting from the clearing and demolition operations to a waste facility secured by the Contractor. All hauling and disposal of debris and any material to be disposed of shall be at the Contractor's expense.
- C. Dispose of refuse from clearing and demolition in a manner consistent with government regulations. In no case shall refuse material be left on the project site, placed onto abutting private properties, or buried in embankments or trenches on the project site. Do not deposit debris in a stream or body of water, any public right of way or upon private property except by written consent of the private property owner and if permitted by the appropriate jurisdiction having authority. On-site burning is not allowed. Maintain hauling routes clean and free of debris resulting from work of this Section.

END OF SECTION