



## **DESIGN STANDARDS FOR: GENERAL CONSTRUCTION REQUIREMENTS**

This design narrative contains general requirements that must be followed by contractors/developers. This section includes a general overview only. The contractor/developer is responsible for adhering to all required local, State, and Federal laws.

The contractor/developer shall attend a preconstruction meeting with the park project manager or designated representative prior to starting work.

The Washington State Department of Transportation Standard Specifications for Road, Bridge, and Municipal Construction, latest edition, herein after referred to as the "Standard Specifications," shall govern all aspects of construction, unless superseded in writing by special provisions issued by the City of Bellingham Parks Department.

The following requirements shall supplement the Standard Specifications:

### **A. UTILITIES**

1. Provide employees with all accommodations required by the State Department of Health and other agencies. These accommodations shall be kept clean, neat, and sanitized, and shall not create any public nuisance.
2. Keep all areas clean, properly dispose of all refuse, and leave each site in a neat and sanitary condition.
3. Provide temporary portable fire extinguishers for project as required by code.
4. Provide and install temporary exit signs, as needed, to ensure a clear direction for emergency exit travel in occupied areas adjacent to the construction project.
5. Outdoor storage and staging operations may not impede egress, restrict fire fighting access, or present a fire exposure to existing buildings.
6. Notify Park's Representative in writing, on each occasion, of the intent to work near existing underground utility services or structures or when a new excavation operation is about to begin. Submit procedure for approval to assure safe and continuous operation of the services.
7. In the event utilities are damaged during construction, temporary services and/or repairs must be made immediately to maintain continuity of services at Contractor/developer's expense.

### **B. TEMPORARY FACILITIES**

1. The types of temporary support facilities required may include field offices, storage sheds, sanitary facilities, drinking water, first aid facilities, bulletin board, telephones, clocks, thermometer, project identification signs, clean up facilities, waste disposal service, and similar

miscellaneous general services, all as may be reasonably required for proficient performance of the Work and accommodation of personnel at the site including Park's personnel.

2. Locate temporary support facilities for convenience of users, and for minimum interference with construction activities. All placements shall be subject to review and approval by the Park's Representative.
3. Before project completion, remove all temporary facilities, such as water lines, gas lines, electric conduit and transformers, shoring and crane base, etc. unless indicated otherwise agreed to in writing by the Parks Project Manager. Restore site to original or new conditions, patching and filling as required to match adjacent surfaces.
4. Keep temporary services and facilities clean and neat in appearance. Operate in a safe and efficient manner.
5. Take necessary fire prevention measures. Do not overload facilities, or permit them to interfere with progress. Do not allow hazardous, dangerous or unsanitary conditions, or public nuisances to develop or persist on the site.
6. Coordinate the need and pay for all electrical power and service with the local public utility.
7. Provide and maintain security lighting as appropriate to provide general illumination of work area during nighttime hours. Provide general illumination of work area for all trades.
8. Unless otherwise agreed to in writing by the Parks Project Manager, all water shall be furnished by the contractor/developer. The contractor/developer shall pay all costs of temporary piping, including pressure reducing station, double backflow preventer, removal of piping and restoration of Park's utilities at the completion of the Work.
9. Contractor/Developer to provide self-contained, single-occupant toilet units of the chemical, aerated circulation, or combustion type, properly vented and fully enclosed with a glass fiber reinforced polyester shell or similar nonabsorbent material.
10. Contractor/Developer shall carry a cellular phone at all times while at the project site. Phone service will not be provided.

#### C. TEMPORARY ENCLOSURES

1. Barriers, Safety Guards, and Warnings: Provide for public protection as required by law and ordinance.
2. Keep streets and walks clean and free from obstructions.
3. Provide temporary enclosures to protect Work. Furnish, install, and maintain for the duration of construction all required tarpaulins, barricades, barriers, canopies, warning signs, steps, bridges, platforms, and other temporary construction necessary for proper completion of the Work. Maintain in compliance with all pertinent safety and other regulations.
4. Protect Work, stored products, and construction equipment from theft and vandalism, and protect premises from entry by unauthorized persons. No barbed wire permitted.

#### D. PARKING

1. Parking shall be provided on site to the greatest extent possible. Advise construction workers not to park in neighboring residential areas or in public parking areas.
2. Contractor/developer shall be responsible for obtaining meter hood and paying for all city metered parking spaces.

#### E. WORK AREA

1. Confine operations and storage to the designated work area.
2. Maintain the work area and site in a clean and orderly manner.
3. Conduct operations in a manner that is fire-safe for the work area and adjacent areas.
4. The local fire code is incorporated herein by reference; adhere to all applicable provisions as determined by the local fire department.
5. Dispose of all refuse and waste material off Park's property.
6. Do not stockpile waste material on Park property.
7. Immediately clean up any spilled material.
8. Clean all trash and debris from work area daily.
9. Provide on-site containers for collection of waste materials, debris, and rubbish. Coordinate dumpster location with Park's Representative.
10. Do not use Park's waste containers for construction waste.
11. Dispose of all flammable, hazardous, and toxic waste materials daily. Storage of these materials will not be permitted on site.

#### F. UTILITY LOCATIONS, MARKINGS, CONDUITS & SLEEVES

1. Call for utility locates.
2. Employ and pay for a locator service to locate and mark utilities in addition to the "DIAL DIG" service.
3. Before backfilling over any utilities, provide utility locator tape over all uncovered utilities.
4. Provide conduit sleeves of sufficient size under new pavements as directed by Parks Project Manager.

#### G. SITE CLEARING

1. Limit use of premises to work in areas indicated.
2. Do not disturb portions of site beyond areas in which the Work is indicated.
3. Contact Park Representative 72 hours in advance of clearing activities for approval of site clearing limits.
4. Install tree protection in accordance with design standards and as directed by Park's Representative.

## H. EARTHWORK

1. Call Park's Representative 48 hours (two working days) prior to beginning construction.
2. Comply with all WSDOT Standard Specifications
3. Stockpile materials on site within clearing limits and at locations approved by Park's Representative. Stockpile material on 6 mil plastic and cover nightly. Protect from weather if not being used.
4. Direct surface water away from stockpile site to prevent erosion or deterioration of materials.
5. Remove stockpile and leave area in a clean and neat condition.
6. Grade site surface to prevent freestanding surface water.
7. Maintain toe of material at least 6 feet from edges of trenches and excavations. Pile so surface water is prevented from flowing into excavations.
8. Provide free access to fire hydrants, water valves, meters; private driveways; and leave clearance to enable the free flow of storm water in gutters, conduits, and natural watercourses.
9. Verify excavation will not undermine footings or supports and cause damage to structures.
10. Protect plant life, lawns, and other features remaining as a portion of final landscaping or interim erosion control.
11. Protect benchmarks, property corners, horizontal control, existing structures, sidewalks, railings, paving, and curbs.
12. Protect pavement or paved areas intended to remain from damage.
13. Identify existing improvements to be salvaged for Park's Representative.
14. Notify Park's Representative where existing grades to be matched creates an adverse affect, such as blocking grading, abrupt change in grade, slopes steeper than allowed, and grades not conforming with ADA.
15. Where subgrade soils are loose, remove to solid bearing and replace material in compacted lifts.
16. Grade areas adjacent to building and structures in a manner that provides positive drainage away from structures and prevents ponding of water at building or structure.
17. Do not fill over ponded surface water or existing subgrade surfaces that are yielding, disturbed, or softened.
18. Suspend placing fill when the climatic conditions will not allow specified placement and fill compaction.
19. Protect exposed site material and subgrade from damage due to excess moisture and trafficking.
20. Dispose of waste, surplus, and unsuitable materials according to laws, regulations, and ordinances off site at a site obtained by Contractor.

I. EROSION CONTROL

1. Erosion control shall consist of planning, installing, inspecting, maintaining, and removing temporary erosion and sediment control Best Management Practices (BMPs) as shown on the drawings or as ordered by Park's Representative to prevent pollution of air and water, and control, respond to, and dispose of eroded sediment and turbid water during the life of the project.
2. In the event of conflict between these requirements and pollution control laws, rules, or regulations of other Federal, state, or local agencies, the more restrictive laws, rules, or regulations shall apply.
3. Coordinate stormwater requirements with City of Bellingham Stormwater Utility Engineer.
4. Develop and submit a Contractor's Erosion and Sediment Control Plan (CESCP)
5. Use all means necessary to prevent the erosion of freshly graded areas during construction or until such time that permanent drainage and erosion control measures are fully operational.
6. Install, maintain, and remove all erosion prevention, containment, and countermeasures BMPs during the life of the project.
7. Contain, cleanup and dispose of all sediment, turbid water, and water that does not meet pH water quality standards.
8. The Contractor/developer shall be solely responsible for any damages, fines, levies, or judgments incurred as a result of Contractor, subcontractor, or supplier negligence in complying with the requirements of this section.
9. In the event that temporary erosion and pollution control measures are required due to the Contractor's negligence, carelessness, or failure to install permanent controls as a part of the work as scheduled or are ordered by Park's Representative, such work shall be performed by the Contractor at his/her own expense.
10. In the event that areas adjacent to the work area are suffering degradation due to erosion, sediment deposit, water flows, water with elevated pH above allowable state standards, or other causes, Park's Representative may stop construction activities until the situation is rectified.
11. Before leaving project site, all trucks and equipment shall be inspected for mud and debris.
12. If mud or debris is tracked from the site it shall be cleaned up immediately.
13. All mud and debris shall be removed by vacuum sweeper. The Contractor shall have sufficient working vacuum sweepers on site at all times work is being performed. All sweepers shall have on-board water spray systems that shall be operating at all times.

END OF SECTION