

**ADDENDUM NO. 1  
TO THE CONSTRUCTION DOCUMENTS  
for  
SITE IMPROVEMENT PROJECT  
TURNING POINTE BUSINESS PARK**

Date: November 6, 2015

To All Plan Holders:

The following changes, additions and/or deletions are hereby made a part of the Construction Documents for the above noted project, fully and completely as if the same were fully contained therein. All of the other terms, conditions and specifications of the original Invitation to Bid remain unchanged.

This Addendum must be acknowledged in the space provided in the Bid Schedule near the middle of page 6 of the Project Manual.

**The Submittal Date and Time is NOT changed. It remains November 13, 2015 @ 11:00 a.m.**

The modifications directed by the Addendum No. 1 are described in this page and the following attachments:

- |    |                                |         |
|----|--------------------------------|---------|
| 1. | Addendum Text:                 | 1 page  |
| 2. | Attachment:                    |         |
|    | a. Specification Section 02485 | 5 pages |

**CHANGES TO SPECIFICATIONS**

1. Delete the original Section 02480 in its entirety and replace it with the attached Section 02485.

**CHANGES TO DRAWINGS**

1. Sheet 3 of 5:

Delete the note referring to 81,000 cubic yards of fill located near the lower right corner of the sheet. The fill volume will be the same as the estimated cut volume shown of 30,000 cubic yards. **No fill will be imported from other areas.**

**END OF ADDENDUM NO. 1.**

**SECTION 02485  
SEEDING WORK**

**PART 1 – GENERAL**

**1.1 DESCRIPTION OF WORK**

- A. The seeding work includes, but is not necessarily limited to, the following:
  - 1. Salvage and stockpile existing topsoil.
  - 2. Spreading of stockpiled topsoil.
  - 3. Fine grading.
  - 4. Furnishing and application of soil amendments.
  - 5. Seeding as indicated.
- B. Stripping and stockpiling topsoil is specified in Section 02100.

**1.2 QUALITY ASSURANCE**

- A. General:
  - 1. Ship all seed, fertilizing and mulch materials with certificates of inspection required by the governing authorities. Comply with regulations applicable to these materials.
- B. Analysis and Standards:
  - 1. Package standard products with manufacturers certified analysis. For other materials, provide analysis by recognized laboratory made in accordance with methods established by the Association of Official Agricultural Chemists, wherever applicable.

**1.3 SUBMITTALS**

- A. Certification:
  - 1. Submit certificates of inspection as required by governmental authorities and manufacturer's or vendors certified analysis for seed, soil amendments and fertilizer materials. Submit other data substantiating that materials comply with specified requirements.
  - 2. Submit seed vendor's certified statement for each grass seed mixture required, stating botanical common name, percentage by weight and percentages of purity, germination and weed seed for each grass seed species.

**1.4 DELIVERY, STORAGE AND HANDLING**

- A. Packaged Materials:
  - 1. Deliver packaged materials in containers showing weight, analysis and name of manufacturer. Protect materials from deterioration during delivery and while stored at site.

**1.5 JOB CONDITIONS**

- A. General:

1. Proceed with and complete all seeding work as rapidly as portions of the site become available, working within seasonal limitations.
- B. Planting time:
1. Plant all seed during normal planting seasons. Correlate planting with specified maintenance periods to provide maintenance from date of completion of work.

**PART 2 – PRODUCTS**

2.1 FERTILIZER MATERIALS

- A. Fertilizer shall be a granular slow release all natural organic fertilizer with no chemical content, consisting of a fungal and bacterial biomass. The nutrient source shall be derived from fermented plant material along with nutrients such as cottonseed meal, soybean meal and trace elements all under constant sterile conditions with a minimum Nutrient (N-P-K) content of 7-2-1 BioSol Forte or approved
- B. Nutrient Specifications:
- |  |           |
|--|-----------|
| 1. Organic Matter                              | > 85%     |
| 2. Carbon Nitrogen Ratio                       | 5:1       |
| 3. Total Nitrogen                              | > 7%      |
| 4. Water Soluble Nitrogen                      | <0.5%     |
| 5. Phosphorus (P <sub>2</sub> O <sub>5</sub> ) | 2 – 4%    |
| 6. Potassium (K <sub>2</sub> O)                | 1%        |
| 7. pH Level                                    | 6.5 – 7.5 |
- C. All nutrients shall be derived from fermented plant material and not contain any urea, animal waste, animal by-products or sewage materials.
- D. Approved equals must be within the ranges shown for N-P-K. The cumulative N release rate must be not more than 70 percent the first 70 days after incubation (86<sup>0</sup> F.) with 100 percent release at 350 days or more.
- E. All fertilizer shall be furnished in standard unopened containers with weight, name of plant nutrients and manufacturer’s guarantee statement of analysis clearly marked, all in accordance with State and Federal Laws.

2.2 SEED MATERIALS

- A. Provide fresh, clean, new crop seed complying with tolerance for purity and germination established by the Official Seed Analysis of North America. Provide seed of species, proportions and minimum percentages of purity, germination and maximum percentage of weed seed, as follows:

<u>Kind and Variety</u>	<u>% By Weight</u>	<u>Minimum % Pure</u>	<u>Minimum % Germination</u>
1. Crested Wheatgrass	35%	94%	75%
2. Annual Ryegrass	20%	97%	90%
3. Sheep Fescue	18%	95%	80%
4. Hard Fescue	17%	95%	80%
5. Canada Bluegrass	10%	95%	80%
6. Weed Seed	2.0% (Max.)		
7. Inert & Other Crop	3.5% (Max.)		

- B. All seed shall be certified that it will meet all of the requirements of the Federal Seed Act (7 U.S.C. 1551-1610) and that it will comply with all of the seed and noxious weed laws for the State of Washington.
- C. All seed will be tested for current germination and to ensure that it is free of prohibited noxious weeds.

2.3 MULCH MATERIALS

- A. All mulch shall consist of a 50/50 blend of wood cellulose and a 100% virgin wood fiber mulch applied at the total application rate of 2,000 pounds per acre. Use Nature’s Own Wood Cellulose Mulch, Ranier Wood Fiber Mulch, or approved equals.
- B. Straw mulch shall not be used on this project.

2.4 ORGANIC TACKIFIER

- A. Use the organic tackifier J3000 Guar from Rantec Corporation, or an approved equal.

2.5 APPLICATION RATES

- A. Application rates for Fertilizer, Seed, Mulch and Tackifiers are as follows:

	<u>Material</u>	<u>Application Rate (lbs./acre)</u>
1.	Fertilizer	1,800
2.	Seed	60
3.	Mulch	2,000
4.	Tackifier	80

2.6 PREPARATION OF PLANTING SOIL

- A. Before seeding operations begin, clean topsoil of roots, plants, sods, stones, clay lumps and other extraneous materials harmful or toxic to plant growth.
- B. Mix specified soil amendments and fertilizers with topsoil at rates specified. Delay mixing of fertilizer if planting will not follow placing of planting soil within a few days.

**PART 3 – EXECUTION**

3.1 PREPARATION

- A. Preparation for Planting Grass Seed:
  - 1. Loosen subgrade to a minimum depth of 3”. Remove stones more than 1½” in any dimension, sticks, roots, rubbish and other extraneous matter.
  - 2. Spread topsoil to minimum depth of 3” and as required to meet lines, grades and elevations shown.
  - 3. Grade areas to be seeded to a smooth, even surface with loose, uniformly fine texture. Roll, rake and remove ridges and fill depressions as required to meet finish grade.

4. Moisten prepared areas before planting if soil is dry. Water thoroughly and allow surface moisture to dry before planting. Do not create a muddy soil condition.
5. Restore prepared areas to specified conditions if eroded or otherwise disturbed after fine grading and prior to planting.

### 3.2 PLANTING

#### A. Seeding:

1. Do not use wet seed or seed which is moldy or otherwise damaged in transit or storage.
2. Sow seed using a hydro-seeding machine. Do not seed when wind velocity exceeds 5 miles per hour.

#### B. Mulching Seeded Areas:

1. Immediately after seeding, all seeded areas shall be mulched uniformly at the rate specified above.
2. All mulch shall be anchored using the tackifier specified above and at the application rate specified above.

### 3.3 MAINTENANCE

#### A. General:

1. Begin maintenance immediately after completion of seeding.

### 3.4 CLEANUP AND PROTECTION

- A. During seeding work, store materials and equipment where directed. Keep pavements clean and work area in an orderly condition.
- B. Protect seeded areas and materials from damage due to seeding operations, operations by other contractors and trades and trespassers. Maintain protection during installation and maintenance periods. Treat, repair or replace damaged seeded areas as directed by the ENGINEER.

### 3.5 INSPECTION AND ACCEPTANCE

- A. When seeding work has been completed, including maintenance, ENGINEER will, upon request, make an inspection to determine acceptability.
- B. Where inspected seeded areas do not comply with the requirements, replace rejected work and continue specified maintenance until re-inspected by the ENGINEER and found to be acceptable.

**END OF SECTION 02480**