

SECTION 02900

LANDSCAPING RESTORATION

PART 1 - GENERAL

1.01 SECTION INCLUDES

- A. Provide all labor, material and equipment to replace preserved or new fences, guide rails, plantings, trees and miscellaneous appurtenances removed/disturbed by sewer construction.
- B. Provide same to seed and mulch all areas disturbed by Contractor's operations, both on and off the site.

1.02 RELATED SECTIONS

- A. Section 01010 - Summary of Work
- B. Section 01300 - Submittals
- C. Section 01390 - Color Audio-Video Electrography
- D. Section 01500 - Construction Facilities and Temporary Controls
- E. Section 01570 - Traffic Regulation
- F. Section 02110 - Site Clearing
- G. Appendix A - Standard and Special Construction Detailed Drawings

1.03 REFERENCES

- A. American Joint Committee of Horticultural Nomenclature, Latest Edition.
- B. American Standard for Nursery Stock, Latest Edition.
- C. Erosion and Sedimentation Pollution Control Plan Narrative.
- D. Pennsylvania Department of Transportation Publication 408/Latest Edition
- E. Pennsylvania Department of Transportation Publication 72 Standards for Roadway Construction, Series RC-0 to 100/Latest Edition.
- F. Pennsylvania Department of Transportation Publication No. 35 - Bulletin No. 15 - Approved Construction Materials

1.04 JOB CONDITIONS

- A. Protection: Use all means necessary to protect the materials of this Section before, during, and after installation and to protect the work and materials of all trades.
- B. Replacements: In the event of damage, immediately make all repairs and replacements necessary to

the approval of the Authority and at no additional cost to the Authority.

- C. Protection of Utilities: Protect existing facilities.
- D. Qualifications of Workmen: Provide at least one person who shall be thoroughly trained and experienced in the skills required, who shall be completely familiar with the design and application of work described for this Section, and who shall be present at all times during progress of the work of this Section and shall direct all work performed under this Section.

1.05 SUBMITTALS

- A. Submittals of certifications of quality, type, etc., shall be required where new material is used for restoration in PennDOT's Right-of-Way. Submit in accordance with Section 01300.
- B. Product certification may be required in other applications and shall be further directed herein.

PART 2 - PRODUCTS

2.01 PLANTS, SHRUBBERY, TREES

- A. Plants, shrubbery and trees shall be in kind (variety), either satisfactorily removed and preserved from Site Clearing, or new.

2.02 SEEDING

- A. Provide fresh, clean, new crop seed.
- B. Seed shall not contain more than .05% weed seed nor more than 3% inert matter or other crop seed.
- C. Seed mixtures shall normally be specified in the Erosion and Sedimentation Pollution Control Plan.
- D. When not specified above or elsewhere, the following mixture shall be used:

35% Kentucky Bluegrass of two varieties (common Kentucky, Marion, Delta or Newport)

45% Pennlawn Red Fescue

20% Perennial Ryegrass - Pelo, Manhattan or NK 100

2.03 PLANTING AND SEEDING ACCESSORIES

- A. Fertilizers, top soil, mulch and other required accessories shall be products used in standard agronomy guides.

2.04 FENCES

- A. Fences shall be in kind, either satisfactory preserved or new material of same design and type.

2.05 GUIDE RAIL

- A. Materials, if not preserved during and after removal, shall be replaced with material from an approved PennDOT source as listed in their Bulletin 15.

PART 3 - EXECUTION

3.01 GENERAL

- A. Inspect all areas to ensure they are ready to receive respective restoration required.
- B. Review photographs or video tapes (if made) to determine original conditions.
- C. Review condition of any preserved natural items for suitability for replanting.
- D. Contractor shall meet and discuss with property Owners the method and type of restoration being planned to preclude property Owner dissatisfaction with work.

3.02 PLANTS, SHRUBBERY, TREES

- A. Replacement, whether preserved or new, shall be made in excavated holes of proper size, backfilled with required mixed materials, then mulched and watered. Stake and guy as necessary.

3.03 SEEDING

- A. If an Erosion and Sedimentation Pollution Control Plan has been prepared for the project, it will contain a permanent seeding schedule.
 - 1. If not, Contractor shall prepare areas by placing 4-6 inches of topsoil, properly graded. Rake to remove stone over 1 1/2 inches, and other debris.
 - 2. Apply agricultural limestone 100 LB/1000 S.F. and 10-20-20 fertilizer, 25 LB/1000 S.F., till into soil.
 - 3. Apply seed, sowing half in one direction and half at a right angle. Total rate shall be 5 LB/1000 S.F.
 - 4. Rake lightly to cover seed.
 - 5. Mulch seeded area with clean straw at 3 bales/1000 S.F.

3.04 FENCE AND GUIDE RAIL

- A. These items, whether preserved or new, will be replaced to correct lines and grade.
- B. Guide rail shall be set to PennDOT Standards with reference to RC Standards No. RC 50, 52, 53, 54, 55.

3.05 MAINTENANCE (PLANTINGS)

- A. Maintenance until acceptance shall include pruning, cultivating, weeding, watering, and application of appropriate insecticides and fungicides necessary to maintain plants free of insects and disease.
 - 1. Re-set settled plants to proper grade and position. Restore planting saucer and adjacent material and remove dead material.
 - 2. Tighten and repair guy wires and stakes as required.
 - 3. Correct defective work as soon as possible after deficiencies become apparent and weather and season permit.
 - 4. Water trees, plants, and ground cover beds within the first 24 hours of initial planting, and not less than twice per week until final acceptance.

3.06 MAINTENANCE (SEEDING)

- A. Maintain seeded banks, ditches, lawns, medians, and fields to the extent of establishment only. Re-grade and re-seed washed out or eroded areas as required until a suitable cover is established and accepted by the Authority.