

PART 1 – GENERAL

1.1 RELATED DOCUMENTS

- A. Drawings and general provisions of the Contract, including General and Supplementary Conditions and Division 01 Specification Sections, apply to this Section.

1.1 SUMMARY

- A. This Section includes the following:
1. Clearing and grubbing of vegetation and debris.
 2. Removal and disposal of trees, shrubs, roots, stumps, brush, and other vegetation.
 3. Stripping and stockpiling topsoil.
 4. Removal and disposal of existing improvements and debris as indicated.
 5. Site dewatering and sediment control as required during clearing operations.
- B. Related Sections include, but are not limited to:
1. Division 31 Section "Earth Moving" for excavation, backfilling, and grading.
 2. Division 31 Section "Erosion and Sedimentation Controls" for soil erosion prevention and sediment control.
 3. Division 32 Section "Landscape Grading" for final grading and landscape preparation.
 4. Division 32 Section "Soil Preparation" for soil amendments and preparation.
 5. Division 01 Section "Temporary Facilities and Controls" for temporary erosion and sedimentation control measures.

1.2 REFERENCES, CODES, AND STANDARDS

- A. Applicable codes and standards include but are not limited to:
1. American National Standards Institute (ANSI) Z133.1 - American National Standard for Arboricultural Operations – Safety Requirements.
 2. Occupational Safety and Health Administration (OSHA) Standards, 29 CFR Part 1926 - Safety and Health Regulations for Construction.
 3. ASTM International:
 - a) ASTM D448 - Standard Classification for Sizes of Aggregate for Road and Bridge Construction.
 - b) ASTM D1556 - Standard Test Method for Density and Unit Weight of Soil in Place by the Sand-Cone Method.
 - c) ASTM D2487 - Standard Practice for Classification of Soils for Engineering Purposes (Unified Soil Classification System).
 4. U.S. Environmental Protection Agency (EPA) - Clean Water Act (CWA) for sediment control and stormwater management.
 5. Local and State Environmental Protection Regulations.

6. International Society of Arboriculture (ISA) Best Management Practices for Tree Removal and Protection.
7. National Fire Protection Association (NFPA) 241 - Standard for Safeguarding Construction, Alteration and Demolition Operations.

1.3 SUBMITTALS

A. Action Submittals:

1. Site Clearing Plan indicating limits of clearing, protection zones for existing trees to be preserved, stockpile locations, and sediment control measures.
2. Equipment List including types and capacity of equipment proposed for clearing operations.
3. Schedule of Clearing Activities including sequence and timing.
4. Waste Management Plan detailing disposal methods and recycling of cleared materials.
5. Certification of Compliance with applicable codes and standards.
6. Proposed Methods for Removal of Hazardous Vegetation or Material, if applicable.

B. Informational Submittals:

1. Copies of permits and notifications required for clearing operations.
2. Manufacturer's product data for erosion control products used during clearing.
3. Photographic documentation of site conditions before and after clearing.
4. Material Safety Data Sheets (MSDS) for chemicals or herbicides used, if any.

1.4 QUALITY ASSURANCE

- A. Perform site clearing work in accordance with recognized industry standards and manufacturers' recommendations.
- B. Personnel performing tree removal or trimming shall be certified arborists or experienced operators familiar with ANSI Z133.1 safety requirements.
- C. Maintain erosion and sediment controls at all times during clearing activities to prevent sedimentation of adjacent properties and water bodies.
- D. Comply with all local, state, and federal environmental regulations regarding protected species, wetlands, and historic resources.
- E. Pre-clearing meeting to be conducted with Owner, Contractor, and appropriate authorities to review clearing limits, protection measures, and safety protocols.

1.5 DELIVERY, STORAGE, AND HANDLING

- A. Store erosion control materials, such as silt fencing, wattles, and blankets, in a dry, protected area to prevent damage and contamination.
- B. Handle cleared materials to prevent spillage and facilitate recycling or disposal.

- C. Maintain equipment in good working order and free of oil, fuel, or other contaminants that could cause environmental damage.
- D. Protect stockpiled topsoil from erosion, contamination, and compaction. Cover stockpiles when not actively used.

1.6 WARRANTY

- A. Provide warranty for clearing operations that all work will be free of defects in workmanship and materials for a period of one year from date of final acceptance.
- B. Warranty includes responsibility for repair or replacement of any damage to adjacent protected trees, utilities, or improvements caused by clearing operations.
- C. Warranty includes ensuring that no undesirable vegetation or debris remains that could affect subsequent construction or landscaping.

PART 2 – PRODUCTS

2.1 MANUFACTURERS

- A. Erosion and Sediment Control Products:
 - 1. North American Green
 - 2. Profile Products LLC
 - 3. Best Management Products, Inc.
 - 4. Silt-Saver, Inc.
- B. Tree Protection Materials:
 - 1. Greenleaf Nursery Company
 - 2. Arborwear, Inc.
- C. Equipment Manufacturers (examples):
 - 1. Caterpillar Inc.
 - 2. John Deere
 - 3. Komatsu America Corp.

2.2 MATERIALS

- A. Erosion Control Materials: Silt fences, wattles, erosion control blankets, mulch, and soil stabilization products as specified in Division 31 Sections.
- B. Topsoil: Stockpiled native topsoil free of roots, debris, and contaminants.
- C. Disposal Containers: Containers and receptacles for collection and transport of cleared materials.
- D. Herbicides or Chemicals: Use only if specified and approved, and in accordance with applicable regulations and MSDS.

PART 3 – EXECUTION

3.1 EXAMINATION

- A. Verify that utility locations have been identified and marked. Notify utility companies and the Owner of conflicts prior to clearing.
- B. Confirm limits of clearing and grubbing with the Owner's representative.
- C. Identify trees, vegetation, or site features to be preserved or protected.
- D. Inspect erosion and sediment control measures to ensure they are installed and functioning before clearing begins.

3.2 PREPARATION

- A. Install sediment and erosion control devices around the perimeter of the clearing area and at appropriate points downslope.
- B. Mark and protect trees and vegetation to remain using fencing or barricades.
- C. Conduct a pre-clearing meeting with all personnel involved to review safety, environmental protection, and clearing procedures.

3.3 CLEARING AND GRUBBING

- A. Remove all trees, shrubs, brush, roots, stumps, and other vegetation within the designated clearing limits.
- B. Remove above and below ground parts of vegetation including roots and stumps to a minimum depth of 18 inches below finished grade or as otherwise indicated.
- C. Remove man-made improvements, debris, rubbish, and other obstructions encountered within the clearing limits.
- D. Dispose of cleared materials off-site or process for reuse or recycling in accordance with the Waste Management Plan.
- E. Topsoil stripping: Strip, stockpile, and protect topsoil from erosion and contamination for reuse in landscaping or site restoration.
- F. Minimize disturbance to soils outside designated clearing limits.

3.4 TREE PROTECTION

- A. Maintain protective fencing and barriers around trees and vegetation to remain throughout construction.
- B. Prohibit parking, storage of materials, and heavy equipment traffic within tree protection zones.
- C. Repair damage to roots, trunks, or branches caused during clearing operations in accordance with ISA Best Management Practices.

3.5 EROSION AND SEDIMENT CONTROLS

- A. Maintain and monitor erosion control devices continuously during clearing operations.

- B. Repair or replace damaged or ineffective controls immediately.
- C. Remove sediment accumulations from control devices before capacity is exceeded.
- D. Restore disturbed areas promptly to minimize erosion.

3.6 FIELD QUALITY CONTROL

- A. Conduct inspections at the start and completion of clearing operations.
- B. Verify that clearing limits are adhered to and protective measures are effective.
- C. Document and report any damage to protected trees, utilities, or structures.
- D. Confirm proper disposal of debris and cleared materials.

3.7 CLEANING

- A. Remove all debris, rubbish, and waste materials from site clearing activities daily or as needed to maintain safe and orderly conditions.
- B. Restore areas outside clearing limits disturbed by clearing operations to original or better condition.

3.8 PROTECTION

- A. Protect newly cleared and stripped areas from unauthorized access and damage.
- B. Maintain erosion and sediment controls in good condition until final site stabilization is achieved.
- C. Protect adjacent properties from damage or encroachment.

3.9 COMPLETION

- A. Notify the Owner upon completion of clearing activities for inspection and acceptance.
- B. Provide documentation of completed clearing, including photographic evidence and waste disposal records.

END OF SECTION

BUILDING FOR ROGERS FACILITIES DEPARTMENT
ROGERS, AR

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DEMX ARCHITECTURE
FAYETTEVILLE, AR