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.

1.2 SECTION INCLUDES

A. Remove planting materials within areas of work, including root systems.

B. Remove existing above and below grade site improvements, including asphalt paving, walkways, utility and irrigation system components, and related items.

C. Protection of existing trees and planting areas as shown on drawings and designated to remain.

D. Clearing and grubbing.

E. Disconnecting, capping, sealing, and removal of site utilities.

F. Temporary erosion and sediment control measures.

1.3 REGULATORY REQUIREMENTS

A. Conform to applicable jurisdictional authority regulations and codes for disposal of debris.

B. Coordinate clearing Work with utility companies and Campus Facilities Department, where appropriate.

C. Maintain emergency access ways at all times.

1.4 REFERENCES

A. Geotechnical Reports: “Report of Geotechnical Investigation, SDSU Engineering Building, San Diego, CA” prepared by Group Delta Consultants, Inc. dated January 28, 2015, and any subsequent revisions

B. Standard Specifications for Public Works Construction ("Green Book"), 2012 Edition

C. Division 01 Specifications 01151, 01350, 01500, 01510, 01550, 01560, 01570, and 01732.

1.5 EXISTING CONDITIONS

A. Conduct demolition to minimize interference with adjacent buildings. Maintain protected egress and access at all times.

B. Provide, erect, and maintain temporary barriers and security devices as necessary to provide safe pathways, maintaining continuous separation of construction activity from areas occupied by pedestrians.

1.6 COMPENSATION FOR DAMAGED PLANTING

A. The Owner shall be compensated per requirements specified in the schedule below for all trees and shrubs damaged or destroyed. Compensation shall be deducted from Contractor's progress payments.

B. Injury is defined, without limitation, as all bruising, scarring, tearing, or breaking of roots, branches, or trunk, as defined by Architect.

C. The total value shown shall be paid to the Owner for a tree or shrub totally destroyed.

D. The correct pruning or removal of trees or shrubs in whole or in part, as specified in the plans, is not subject to the damage provisions under this section.

E. Repair of damaged tree or shrub will not relieve Contractor of payment for damage.

1.7 QUALITY ASSURANCE

A. Contractor Qualifications

1. Installing Company: Company specializing in demolition and site clearing work, with minimum 5 years documented experience in projects of similar scale and scope.

2. Installing Foreman: Individual specializing in demolition and site clearing work, with minimum 5 years documented experience in projects of similar scale and scope.

B. Conduct a preconstruction on-site with the Owner prior to the start of work.

PART 2 - PRODUCTS

Not Used

PART 3 - EXECUTION

3.1 SURFACE CONDITIONS

A. Inspection

1. Prior to work of this section, carefully inspect previously installed work. Verify all such work is complete to the point where this installation may properly commence.

2. Verify that work of this section may be installed in strict accordance with the original design, all pertinent codes and regulations, and all pertinent portions of the referenced standards.

3. In the event of discrepancy, immediately notify the Architect.

4. Do not proceed with installation in areas of discrepancy until all such discrepancies have been fully resolved.

3.2 PREPARATION

A. Verify that existing plant life and features designated to remain are tagged or identified.

B. Protect existing items which are not indicated to be altered.

C. Utility and Service Termination

1. Locate and identify existing utility, service and irrigation system components affected by work of this contract. Review existing record drawings, conduct site investigations, contact Underground Service Alert, and implement all other means necessary to define the location of underground systems.

2. Prior to beginning any demolition, properly disconnect and cap all water, gas and electrical power supply at appropriate disconnect locations. Obtain all necessary releases and approvals from serving utility companies.

3. Prior to demolition or disconnect, obtain Owners approval that such system does not impact facilities or systems beyond the extent of this contract.

4. Mark location of disconnected systems. Identify and indicate stub-out locations on Project Record Documents.

D. Coordinate the time and duration of all system disconnects with Owner.

E. Protection

1. Protect utilities that remain, from damage.

2. Protect trees, plant growth, and features designated to remain per Section 01568.

3. Protect bench marks and survey control points from damage or displacement during construction.

3.3 DEMOLITION

A. General Requirements

1. Prior to grading, the project area should be cleared of any existing sub-surface structures, surface vegetation, A.C., concrete, rubble, trash, pavement, debris, etc. Any buried organic debris or other unsuitable contaminated material encountered during subsequent excavation and grading work should also be removed. Demolition also includes, but is not limited to, surface structures such as signs, sign posts & footings, bollards & footings, and light pole bases.

2. Demolish in an orderly and careful manner. Protect existing supporting members and adjacent finishes.

3. Remove demolished materials from site as work progresses. Coordinate with Owner the time of day and route to remove demolished materials from premises. Upon completion of work, leave areas of work in clean condition.

4. Remove all buried debris, rubble, trash, or other material not deemed suitable by the Soils Engineer.

5. Excavations made for removal of any existing footings, utility lines, tanks, and any other subterranean structures, if encountered, on the site should be processed and backfilled, after removal of the structure, in the following manner:

   a. Clear the excavation bottom and side cuts of all loose and/or disturbed material

   b. Prior to placing backfill, the excavation bottom should be moisture conditioned to near optimum moisture content and compacted to at least 90 percent of the ASTM D-1557 laboratory test standard

   c. Backfill should be placed, moisture conditioned (i.e., watered and/or aerated as required and thoroughly mixed to a uniform, near optimum moisture content), and compacted by mechanical means in approximate 6 inch lifts. The degree of compaction obtained should be at least 90 percent of the ASTM D-1557 laboratory test standard

   d. If any of these excavations extend more than 3 feet below the proposed subgrade elevation, they should be backfilled with sand slurry (2-sack minimum) up to the bottom footing elevation

   e. In the event that unanticipated yielding conditions are encountered at the over excavation level, installation of stabilization elements consisting of Tensar BX 1200 geogrid, 12 inches of ¾-inch washed drain rock, and Mirafi 140 N filter fabric may be required. Detailed recommendations for the stabilization layer will be provided based on the on-site conditions encountered during grading

6. It is critical that any surficial subgrade materials disturbed during initial demolition and clearing work be removed and/or recompacted in the course of subsequent site preparation earthwork operations

7. Fill all voids or excavations resulting from clearing, demolition, or removal of vegetation with specified fill material per Section 310000. Compact soil backfill to 90 percent relative compaction per ASTM D 1557.

B. Pavement Removal

1. Remove concrete sidewalk, curb, and aggregate base where required for new construction as indicated on the Drawings.

2. Remove concrete paving by saw-cutting. Remove concrete paving, curb, and aggregate base at locations shown on drawings. Locate closest adjacent weakened plane joint to define start of saw-cutting.

3. Remove asphalt concrete paving & aggregate base by saw-cutting at locations shown on drawings. Remove asphalt paving and base material from site.

C. Landscaping and Planting Demolition

1. Remove grass and grass roots to a minimum depth of two inches below existing grade. Grub all roots to a depth of 12 inches below existing grade.

2. Remove trees and shrubs not designated to remain. Remove all stumps. Remove root ball and root systems to a depth of three feet below existing or finished grades, whichever is lower.

3. Discing and mixing of vegetation, trash, debris, and other deleterious materials with surface soils prior to grading is not permitted.

4. Remove all buried debris, rubble, trash, or other material not deemed suitable by the Soils Engineer.

5. Fill all voids or excavations resulting from clearing, demolition, or removal of vegetation per Section 310000 and Section 312333.

6. Re-compact all subgrade materials disturbed during demolition and clearing work in accordance with Section 310000.

D. Site Utilities, Services and Irrigation System Demolition.

1. Remove conduit and conductors, piping, drains, and other associated system components within the area of the work.

2. Temporarily terminate landscape system components in approved boxes or with approved caps, suitable for re-connection or extension.

3. Locate, identify, disconnect, and seal or cap off utilities indicated to be removed.

4. Do not interrupt utilities serving facilities occupied by the Owner or others.

5. Excavate for and remove underground utilities indicated to be removed.

E. Relocatable Structures and Fixture and Equipment Removal:

1. Remove existing relocatable structures as identified and shown on drawings and required by Architect.

2. Remove existing fixtures and equipment as identified and shown on drawings and required by Architect.

3. Verify all service connections to fixtures and equipment designated for removal have been properly disconnected.

4. Remove all conductors from conduit at all abandoned circuits.

3.4 REMOVAL

A. Remove debris, rock, and extracted plant life from site and dispose of in accordance with the regulations of jurisdictional authority.

3.5 DUST CONTROL

A. Provide for dust control under the provisions of the SWPPP.

B. Maintain all streets and public ways free of dust and mud as directed by local jurisdictional authority, including use of wash down and street sweeper equipment.

END OF SECTION