

Attachment A
Specifications/Requirements
Brown County Project # 2720

01300 - SUBMITTALS

PART 1 - GENERAL

1.1 DESCRIPTION

- A. This section defines administrative and submittal procedures for preparing and transmitting submittals.

1.2 PROJECT INFORMATION SUBMITTALS

A. Progress Schedule

1. A construction progress schedule shall be submitted to the Airport by the Contractor within seven (7) calendar days after written notice to proceed or award of contract and before first pay request submission.
2. Schedule shall indicate complete sequence of each construction category, indicating a time bar for each major category or unit of work to be performed. Work shall be properly sequenced and indicated work being fully completed within the scheduled time of completion or substantial completion.
3. Format of construction progress schedule shall be horizontal bar chart type with separate bar representing each major category of work.
4. Schedule shall be coordinated with all other Prime Contractors, subcontractors and material suppliers prior to submission. Contractor shall automatically update schedule whenever there is a significant change in progress, whether in a particular phase or total job progress.
5. Progress schedule shall incorporate, as a separate line item for each section, and trade, shop drawings, product data, and sample submissions. Schedule shall indicate preparation time, approval time, resubmissions, fabrications and installation time.

B. List of Subcontractors and Materials Suppliers

1. A List of Subcontractors and major material suppliers shall be submitted to the Airport by the Contractor within five (5) calendar days after notification of proposal acceptance and before award of contract.
2. List shall be in order of applicable specifications sections and shall contain heading of project name, project number, and date. List shall be used later in preparation of the materials list.
3. Format of list shall be Contractor's standard letterhead paper.
4. Contract and/or contracts will not be executed before list has been reviewed and accepted.
5. Do not substitute suppliers or subcontractors after list has been approved in writing by the Airport.

1.4 CONTRACTOR DATA SUBMITTALS

A. General

1. Each subcontractor and other affected party shall submit to the Prime Contractor, for transmittal to the Airport, all Test Results, Shop Drawings, Product Data, Qualifications, Certificates, Warranties, and Samples required herein and by the Technical Specification Sections, and the Prime Contractor shall submit said materials to the Airport within ninety (90) calendar days after written notice to proceed or award of contract.

B. Construction Photographs

1. Take four site photographs from differing directions each month.
2. Photograph significant errors discovered during construction from at least three different angles for record purposes.
3. Photograph general progress of the work.
4. Submit with periodic requests for payment and final project photographs.
5. Format: 5 x 7 matte finish photographs. Digital photographs are not acceptable.
6. Mark each photograph with date and time taken, orientation and project identification. Place in clear plastic jackets with left margin of holder punched for standard 3-1/2 inch center, 3-ring binder. Maintain binder on-site, submit at end of project.
7. Final Project Photographs: Take panoramic, overlapping site photographs from opposite sides each month.

C. Haul Route Video Log

1. Contractor shall video log all haul routes on local and/or airport roads or pavements (up to a state or county highway system road) and submit the video disk or video tape to the Airport prior to the start of hauling operations.

END OF SECTION

01500 - CONSTRUCTION FACILITIES AND TEMPORARY CONTROLS

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Conditions of the Contract apply to this Section.
- B. Furnish, install and maintain construction facilities and controls required for construction, remove upon completion of Work.
- C. Temporary Utilities include: Electricity, lighting, water and sanitary facilities.
- D. Temporary Controls include: Barriers, building lock-up, covered accesses, exterior enclosures, interior enclosures, protection of the Work, fire protection, and water control.
- E. Construction Facilities include: Access roads, material hoists and elevators, material storage, parking, personnel elevator, progress cleaning, project sign, and stairs.

1.2 QUALITY ASSURANCE

- A. Comply with Federal, State, and local codes and regulations and with utility company requirements.
- B. Comply with National Electric Code for Temporary Power.
- C. Comply with National Fire Protection Association (NFPA) and local fire marshall recommendations.
- D. Comply with specific requirements indicated and applicable local industry standards for construction work.
- E. Comply with applicable provisions of ANSI A10-Series standards on construction safety.

1.3 SUBMITTALS

- A. Temporary Services Plan: When requested by the Airport, provide written description and drawings illustrating plan for temporary facilities.
- B. Certification of Disposal: When requested by the Airport, provide written certification that waste materials, debris and rubbish are being disposed of in accordance with local, state and federal environmental regulations.

1.4 ENVIRONMENTAL CONDITIONS

- A. Make all required connections to existing utility systems with minimum disruption to services in the existing utility systems. When disruption of the existing service is required, do not proceed without the Airport's approval and, when required, provide alternate temporary service.

- B. Establish and initiate use of each temporary facility at time first reasonably required for proper performance of the work. Terminate use and remove facilities at earliest reasonable time, when no longer needed or when permanent facilities have, with authorized use, replaced the need.

PART 2 - PRODUCTS

2.1 TEMPORARY WATER

- A. Contractor shall schedule with the Airport to connect to existing facilities, provide installation, distribution sized to provide service required, maintenance, service and removal. Owner shall pay costs of water used.

2.2 TEMPORARY SANITARY FACILITIES

- A. Provide in compliance with laws and regulations.
- B. Contractor shall provide self-contained toilets. Contractor shall service, clean, and maintain the facilities and enclosures.
- C. Existing sanitary facilities may not be used during the construction period.

2.3 TEMPORARY ELECTRICAL

- A. Contractor shall schedule with the Airport to connect to existing facilities, provide installation, distribution sized to provide service required, maintenance, service and removal. Contractor shall pay costs of power used.
- B. Provide weatherproof, grounded, overload protected power distribution system sufficient to supply construction operations with power for tools, electric heating, and start-up testing of permanent electrically-powered equipment before its permanent connection to electrical system. Locate distribution access points so that entire construction area can be reached from 100 foot extension cords.
- C. Contractor's Option: Provide power for electric welding from either temporary power distribution system or engine-driven power-generator sets.
- D. Contractor to provide electric power to all construction trailers at Contractor's expense. Contractor shall provide meter for trailers and shall pay for all power used.

2.4 TEMPORARY LIGHTING

- A. Contractor shall schedule with the Airport to connect to existing facilities, provide installation, distribution sized to provide service required, maintenance, service and removal. Contractor shall turn off lighting when not in use. Contractor shall pay costs of power used.

- B. Provide sufficient temporary lighting to ensure proper workmanship everywhere by combined use of daylight, general lighting and portable task lighting. Provide general lighting with local switching to conserve energy during periods of varying activity.

2.5 FIRE PROTECTION

- A. Contractor shall provide portable fire extinguishing devices; quantity, size and type required to provide adequate coverage of areas under construction, and local fire marshal.

2.6 MATERIAL STORAGE

- A. Each Contractor shall provide and maintain watertight equipment and materials storage sheds with raised floors, on the site, within construction work area. Contractor shall designate locations which do not interfere with construction progress or result in repeated moves as construction progresses. Retain until adequate storage is available within the building.
- B. Material storage areas will not be available within existing building.

2.7 PARKING AND DELIVERIES

- A. Arrange for temporary parking areas for construction personnel.
- B. When site space is not adequate, provide additional off-site parking. Coordinate parking with the Airport.
- C. Adjacent public streets may not be used for construction personnel vehicle parking.

2.8 ACCESS ROADS

- A. At the completion of the project, all haul roads shall be returned to original conditions to the satisfaction of the airport.

2.9 BARRICADES AND FLASHERS

- A. Contractor, as pertinent to the work, shall provide barricades and flashers for protection of persons and property within enclosed area or outside of fenced area as required by Owner or applicable State or OSHA provisions.
- B. Provide barricades, covers, and other protection of openings in floors and roof.

2.10 SITE PROTECTION

- A. Contractor shall provide protection of the portions of streets, parking lots, drives, and any grass or landscape areas used for construction purposes or movement of vehicles and/or materials and equipment. Each aforementioned area shall be completely protected during operations and/or restored to condition they were in prior to construction. Restoration and protection work shall be done.

- B. Contractor shall provide protection and restoration for all streets, roads, walks, curbs, terraces, etc. due to work on this project.
- C. Contractor shall be responsible for securing all materials within construction area and must retrieve materials blown onto the airfield.
- D. All building materials and parked vehicles and equipment must be kept away a minimum of 10 feet on each side of perimeter fence.

2.11 HOISTING FACILITIES

- A. Contractor shall provide hoisting facilities as required for proper execution of work of all trades.

2.12 SCAFFOLDS

- A. Contractor shall furnish and maintain equipment such as scaffolding, fixed ladders, ramps, chutes, runways and the like as required for proper execution of their work.
 - 1. Underlay interior scaffolds with planking to prevent uprights from resting directly on the finished floor or substrata.

2.13 STAIRS

- A. The Contractor shall provide temporary stairs where ladders are inadequate for performing the Work. Maintain until permanent stairs can be used. Protect finished materials on permanent stairs with a durable protective covering to prevent damage or deterioration of finishes until time of acceptance.
- B. Record existing conditions and obtain verification from the Airport prior to use; protect existing stairs from damage; restore to satisfactory condition, approved by the Airport.
- C. Stairs in the existing building may not be used by construction personnel, unless coordinated with the Airport.

2.14 FIRST AID

- A. Contractor shall provide and maintain appropriate first aid materials for use by workmen during performance of the contract. Comply with OSHA and any applicable state and local requirements. Advise workmen of the location of first aid supplies.

2.15 SNOW REMOVAL

- A. Contractor shall provide snow removal to access site, storage areas, deliveries, workmen parking, and as required to maintain progress schedule.

PART 3 - EXECUTION

3.1 MAINTENANCE AND REMOVAL

- A. Maintain all temporary facilities and controls as long as needed for the safe and proper completion of the Work. Remove all such temporary facilities and controls as rapidly as progress of the Work will permit, or as directed by the Airport.

END OF SECTION

02050 - DEMOLITION

PART 1 - GENERAL

1.1 DESCRIPTION

- A. Conditions of the Contract and shall apply to this Section.
- B. Provide all labor, materials, and equipment to complete demolition of a an aircraft hangar or commercial style structure at 2009 airport Drive, Green Bay, WI. Work includes, but may not be limited to, grading the site to drain after demolition, placing top soil and grass seeding on the disturbed areas, commercial style security fence installation and a temporary security fence installed during demolition as to not interfere with air operations area (AOA) and necessary related work as indicated in the Contract Documents.
- C. Any licenses or permits, local or state, required for the Contractor's work shall be secured by the Contractor prior to commencing work.
- D. Contact Ronnie Sampson C.M., Airport Operations Supervisor, at 920-498-4800 for any additional site visit requests.

1.2 QUALITY ASSURANCE

- A. Reference Standards
 - 1. American National Standards Institute (ANSI): A 10.6, Safety Requirements for Demolition.
- B. Requirements of Regulatory Agencies
 - 1. Comply with applicable rules, regulations, codes, and ordinances of Local, State, and Federal Authorities.
 - 2. Comply with applicable rules and regulations of Public Utility Companies having jurisdiction over the work.
 - 3. The Contractor shall shut off, cut and cap all utility service (sewer, water, electricity, gas, etc.) to the buildings as required by state and/or local ordinances.
 - 4. Contractor shall obtain and pay for necessary permits, licenses, and certificates required.
 - 5. Give notices as required for and during performance of demolition work.
 - 6. Comply with local Fire Department requirements.
 - 7. Special attention is called to OSHA Safety and Health Standards dealing with demolition and asbestos (Parts 1926,850 through 1926,860 and Part 1910.1001).

1.3 PROJECT/SITE CONDITIONS

- A. Provide and maintain adequate catch platforms, warning lights, barricades, guards, weather protection, dust protection, fences, planking, bracing, shoring, piling, signs, and other items required for proper protection. Provide temporary barriers/walls/shelters as necessary to protect adjacent work and personnel from dust and falling debris, and to minimize noise transferred to Government's operations.
 - 1. If work is suspended due to weather delay, the sites shall be left as neat and orderly as possible before suspension of the Contractor's operations.
- B. Provide protection for workmen, public, adjacent construction and occupants of existing building(s).
- C. Provide adequate fire protection.
- D. Provide protection for adjacent private property.
- E. Provide protection for vents, utility lines, streets, sidewalks, light standards, hydrants, street signs, and fire alarm boxes.
- F. Make repairs or provide new all damage which is not part of the work on project site or to adjacent property to the Airport's satisfaction.
- G. Protect all material which is to be salvaged and/or remain.
- H. Explosives shall not be used.
- I. Make such explorations and probes as necessary to ascertain any required protection measures that shall be used before proceeding with demolition.
- J. The Airport assumes no responsibility for the actual condition of the items to be demolished. Conditions existing at the time of inspection for bidding purposes will be maintained by the Airport as far as practicable. However, variations may occur within the structures.
- K. The Contractor shall confine all operations, equipment, apparatus, storage of materials, etc., to the immediate area of work to the greatest possible extent. The Contractor shall observe and comply with all rules and regulations in effect at the work site, including, but not limited to, parking and traffic regulations, use of walks, security restrictions, hours of allowable ingress and egress, traffic within or to the work sites, etc.

1.4 SUBMITTALS

- A. Refer to Section 01300 for submittal requirements.
- B. Certificates and/or Letters
 - 1. Services
 - a. Evidence of discontinuation of services to building or structure requiring removal from appropriate agencies.

- b. Evidence of discontinuation of water or electrical lines used for demolition purposes.

1.5 RESPONSIBILITY FOR WORK

- A. Removal of all items requiring salvage.
- B. Coordinate activities to permit access by other trades required for the work, enabling them to complete work which is assigned to them.
- C. Accomplish all work required by drawings, including work specifically noted plus additional work related to specific work noted.
- D. Receive ownership of all material and equipment resulting from demolition operations, except items to be salvaged.
- E. Promptly remove all material and equipment which is Contractor's ownership and properly dispose of at an appropriate off-site location of Contractor's choice.
- F. Storage or sale of removed or salvaged materials will not be permitted on the site.
- G. Burning of debris on property not permitted.
- H. Store and protect all salvage material requiring reinstallation where directed by the Airport and/or where indicated on drawings.
- I. Mechanical and Electrical Components: Removal and/or demolition of all plumbing, mechanical and electrical components not requiring salvage or reuse.

1.6 DISCONNECTION OF SERVICES

- A. Prior to starting removal and/or demolition operations, the Contractor shall obtain required permits, pay required fees and coordinate disconnection of:
 - 1. Existing services:
 - a. Sewer, storm, water and gas.
 - b. Electrical service, telephone, fire alarm system, physical security system and any intercommunications.
 - c. Notify proper officials, persons or corporations owning same.
 - d. Cap all utilities requiring capping.
- B. Cutting of fire alarm systems and other electrical systems shall be accomplished in such a manner as to insure continued operation of the systems in remaining building(s).
- C. Feeders and wiring shall be removed back to source. All concealed conduit runs shall have all wire removed. All exposed conduits and boxes shall be removed unless noted otherwise. Removal shall consist of removing connecting equipment or device (i.e., branch or feeder breaker, amplifier, control panel, etc.). The branch device at the source shall then be labeled spare.

- D. Services to equipment shall be disconnected at unions, flanges, valves, or fittings.
- E. Precautions shall be taken while dismantling piping containing gas, gasoline, oil or other explosive or injurious fluids. Such piping shall be stored outdoors until fumes are removed.

1.7 MEASUREMENT AND PAYMENT

- A. All work under this section shall be incidental to the contract, unless otherwise indicated in the proposals.

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Contractor's normal equipment used for demolition purposes and which meets all safety requirements imposed on such equipment.

PART 3 - EXECUTION

3.1 SELECTIVE DEMOLITION

- A. Do all such work required in connection with this Project with due care, including shoring and bracing. Be responsible for any damage which may be caused by such work to any part or parts of existing building which are to remain.
- B. Where necessary to prevent collapse of any construction, install temporary shores, struts or bracing. Do not commence demolition work until all temporary construction is complete.
- C. Take precautions to guard against movement, settlement or collapse of any surrounding construction designated to remain and be liable for any such movement, settlement or collapse.
- D. During the execution of the work, provide, operate, and maintain all pumping equipment, suction and discharge lines in a number of capacity as required to keep basements and all pits free of water from any source whatsoever at all times.
- E. Contractor shall be responsible for any site restoration requirements of off-site disposal areas.

3.2 BUILDING DEMOLITION

- A. Demolish buildings completely and remove from site. Use such methods as required to complete work within limitations of governing regulations.
- B. Proceed with demolition in systematic manner, from top of structure to ground. Complete demolition work above each floor or tier before disturbing members on lower levels.

- C. Remove structural framing members and lower to ground by hoists, derricks, or other suitable means.
- D. Break up and remove concrete slabs-on-grade, unless otherwise shown to remain.
- E. Locate demolition equipment throughout structure and remove materials so as to not impose excessive loads to support walls, floors or framing.

3.3 BELOW GRADE DEMOLITION

- A. Concrete foundation walls shall be completely removed.
- B. Demolish and remove below grade wood, metal construction, and floor construction including concrete slabs-on-grade.
- C. Filling Basements and Voids
 1. Completely fill below grade areas and voids resulting from demolition of structures.
 2. Prior to placement of fill materials, ensure that areas to be filled are free of standing water, frost, frozen material, trash and debris.
 3. Backfill and compact in accordance with Section 02211.
 4. After fill placement and compaction grade surface to meet adjacent contours and to provide flow to surface drainage structures.

3.4 ADJUST AND CLEAN

- A. When demolition activities are completed, the disturbed area shall be graded so that no gradients in disturbed earth shall be steeper than a slope of 3 to 1 (horizontal to vertical). A layer of arable topsoil capable of supporting perennial grasses shall be spread over the disturbed area to a minimum depth of 4 inches. The area shall be seeded with a perennial grass capable of survival in this climate and maintained until the area is stabilized
- B. If work is suspended due to weather delay, the site shall be left as neat and orderly as possible before suspension of the Contractor's operations.
- C. Final cleaning of the site shall include removal of all tools, equipment, materials and rubbish in order to leave the site and premises in an orderly and neat condition.

END OF SECTION

02211 - EXCAVATION AND EMBANKMENT

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Unclassified excavation consisting of excavation of unsuitable material below subgrade as directed by the Airport.
- B. Borrow excavation of approved material required for the construction of embankment, backfilling, or for other portions of the Work in excess of the quantity of usable material available from required excavations.

1.2 MEASUREMENT AND PAYMENT

- A. All work under this section shall be incidental to the contract, unless otherwise indicated in the proposals.

1.3 REFERENCES

- A. Specification P-152, Excavation and Embankment, Standard Specifications for Airport Construction, State of Wisconsin, Department of Transportation, Bureau of Aeronautic

<http://wisconsindot.gov/Documents/doing-bus/aeronautics/airports/part2.pdf>

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Use suitable materials in compliance with 152-2.1 of the Standard Specifications.

PART 3 - EXECUTION

3.1 CONSTRUCTION METHODS

- A. Perform the Work of this Section in accordance with the "Construction Methods" article in Specification P-152 of the Standard Specifications for Airport Construction, except as amended by this Section.
- B. All density testing required for acceptance under Specification P-152 shall be the responsibility of the Contractor and performed by a certified independent soils testing laboratory. Field density testing reports shall be submitted to and approved by the Airport prior to construction of subsequent courses.

END OF SECTION

02925 - TURFING

PART 1 - GENERAL

1.1 SECTION INCLUDES

- A. Turfing consists of topsoiling to a minimum depth of 4", seeding, fertilizing and mulching of all graded areas within the project area as directed by the Airport.

1.2 MEASUREMENT AND PAYMENT

- A. All work under this section shall be incidental to the contract, unless otherwise indicated in the proposals.

1.3 REFERENCES

- B. Specification T-901, Seeding; Specification T-902, Fertilizing; Specification T-905 Topsoil and Salvaged Topsoil; and Specification T-908 Mulching, Department of Transportation, Bureau of Aeronautic

<http://wisconsindot.gov/Documents/doing-bus/aeronautics/airports/part10.pdf>

PART 2 - PRODUCTS

2.1 MATERIALS

- A. Topsoil shall be new topsoil from an off airport site.
- B. Seeding shall utilize Seed Mix No. 40.
- C. Fertilizer shall be Type B.
- D. Mulching shall be clean straw mulch.

PART 3 - EXECUTION

3.1 CONSTRUCTION METHODS

- C. Perform the Work of this Section in accordance with the "Construction Methods" article in the associated Specification in the Standard Specifications for Airport Construction, except as amended by this Section.

END OF SECTION

