

SCOPE OF WORK
FOR
REPLACING 250' OF THE EXISTING CHAIN-LINK PERIMETER FENCE
WITH 250' OF NEW CHAIN-LINK SECURITY FENCE
AND GRAVEL REPLENISHMENT AT THE
TERMINAL DOPPLER WEATHER RADAR FACILITY
ORLANDO INTERNATIONAL AIRPORT
ORLANDO, FL

1. GENERAL.

1.1. These specifications cover the requirements of the Federal Aviation Administration for removing 250' of the existing 8' high chain-link perimeter fence and installing a new 8' high chain-link security fence, along the south side of the TDWR plot. Also, installation of gravel at selected locations within the TDWR plot. Both activities are at the Terminal Doppler Weather Radar facility, Orlando International Airport, Orlando, FL.

1.2. The requirements of these specifications are intended to be in conformity with all current building and OSHA codes. If they are found to be in conflict, the contractor shall notify the pertinent FAA official prior to continuing. The contractor shall also adhere to all Federal, state, and local labor and safety statutes that may apply.

1.3. ACRONYMS AND ABBREVIATIONS.

CFM - Contractor Furnished Material
CO - Contracting Officer
COR - Contracting Officer's Representative
DO - District Office
FAA - Federal Aviation Administration
GA - Gauge of steel wire (US Steel Wire Gauge)
GFM - Government Furnished Material
MCO - Identifier for Orlando Int'l Airport, Orlando, FL
MAX - Maximum
MIN - Minimum
NTP - Notice To Proceed
SSC - System Support Center (local FAA)
TDWR - Terminal Doppler Weather Radar

2. CONDITIONS AFFECTING WORK.

2.1. SCOPE OF WORK. The scope of work shall include, but is not limited to, furnishing all labor, materials, tools, equipment, and services as necessary to replace the section of fence and to replenish three graveled areas. The general scope of work is as follows:

a) Remove approximately 250 linear feet of existing 8' high chain-link security fence, with barbed wire, after installing an 8' high temporary fence outside the perimeter fence so as to maintain security. Removal includes posts and concrete removal in their entirety, and complete fence disposal offsite.

b) Install new line and corner posts, embedded in new concrete, reusing holes caused by post removal.

c) Install 250' of new 8' chain-link fence (7' fabric with 1' barbed wire) per drawing SO-D-000369-C01.

d) Install ground rods and lengths of ground wire so as to properly ground fence corners and barbed wire.

e) Install limerock gravel to those areas inside the new fence line and identified on the drawings and by local FAA, not to exceed 86 tons (62 cubic yards).

2.2. SCHEDULING OF WORK. The scope of work under this contract requires working on operational FAA facilities. The contractor, therefore, will be required to coordinate his activities with the COR who will be identified at the preconstruction conference. The COR or his designated representative shall escort the contractor, and shall remain on site whenever the contractor is onsite. All work, including daily cleanup, shall be performed between the hours of 8:00 AM to 5:00 PM, Monday through Friday, unless otherwise coordinated with the local FAA.

2.3. EXISTING CONDITIONS.

2.3.1. ASBESTOS. No asbestos will be impacted during this contract.

2.3.2. LEAD. No lead will be impacted during this contract.

2.3.3. RESTROOMS. There are no restroom facilities at the site.

2.3.4. WATER. There are no water facilities at the site.

2.3.5. ELECTRICITY. Power may be made available to the contractor at the site on a day by day basis. Coordinate this need at the preconstruction conference.

2.4. SITE VISIT. The bidder is expected to carefully examine the site and all areas of proposed work to see firsthand the extent of work involved. The submission of a proposal will be considered prima facie evidence that the bidder has made such an examination and is satisfied as to the conditions to be encountered in performing the work. It shall be the responsibility of the bidder to make his own interpretations of existing site conditions as the drawings and specifications may not reflect all site characteristics. To schedule a site visit, contact Larry Montgomery, FAA MCO ENV SSC Manager, at (407)852-7845.

2.5. WORK LOCATION. The contractor will be responsible for obtaining all required insurance, bonding, badges, etc. as required by the CO.

2.6. WORK ACCESS. Access to the site requires passing through security gates. Therefore, the local FAA will escort the contractor to and from the site on a daily basis, unless alternate arrangements are agreed upon at the preconstruction conference. The contractor shall coordinate his schedule to the local FAA in order to secure a daily escort.

2.7. WORKERS. Due to security regulations, no foreign national workers will be allowed on the job site without 30 day notification and approval. Contact the SSC Manager for further information.

2.8. DEMOLITION. Any equipment or material to be removed, unless specified to remain the property of the FAA, shall become the property of the contractor and shall be transported from the site and disposed of in a legal manner. Demolition and removal work shall be performed in compliance with safety procedures, applicable requirements of the State and local regulations, and with Federal and FAA requirements.

2.9 SAFETY STANDARDS. Contractors shall comply with all applicable federal, state, and local requirements for protecting the safety of the contractors' employees, building occupants, and the environment. In particular, all applicable standards of the Occupational Safety and Health Administration (OSHA) shall be followed when working in accordance with this specification.

2.10 WORKING CONDITIONS. Construction/demolition shall in no way interfere with Air Traffic Control Operations. Extreme care shall be exercised so as not to cause any interference or interruption of service from this facility. The contractor shall have the overall responsibility for the performance and enforcement of all forms of protection within the premises against any damages due to work performed under this contract. Any damages incurred, as a result of construction activity during the performance of this contract, will be repaired/replaced immediately by the contractor at no cost to the FAA.

2.11. RESTRICTIONS. The new fence shall replace the existing fence; therefore, at no time, while unattended, shall there be a section of fencing missing so as to provide unobstructed access to the plot. Temporary fencing (8'tall) shall be erected outside the fenceline to be removed, and secured to adjacent fencing.

3. SUBMISSIONS.

Not applicable.

4. MATERIAL.

4.1. GENERAL. All material specified herein shall be supplied, transported, maintained, handled, installed and stored by the contractor. All material estimates and measurements are the responsibility of the contractor.

4.2. MATERIAL SPECIFICATIONS. All material shall adhere to the guidelines and specifications set forth in the latest editions of the UL, and ASTM publications. These specifications shall take precedence over site and standard drawings. Items 4.3. through 4.7. are major CFM items, however, they are not inclusive of all CFM items.

4.3. FENCE. Shall adhere to ASTM-A-392.

4.3.1. FABRIC. Steel chain-link fence, 84" high, 9 gauge galvanized steel wire, 2" mesh, BxB selvage, fence fabric. See drawing SO-D-100706-C02 for fence, gate, plunger and gate grounding details and SO-D-000369-C01 for all other fence and gate details. Omit reference to top rail. Approximately 315 linear feet (including gate) is required.

4.3.2. BARBED WIRE. 3 lines of barbed wire, atop fabric so as to yield an overall fence height of 8'. Barbed wire shall be 2-strand, 4-point (at 5" spacings), 12.5 ga galvanized wire.

4.3.3. CORNER POSTS. Galvanized steel pipe, 3" dia, SS40 ga, 10' long.

4.3.4. LINE POSTS. Galvanized steel pipe, 2" dia, SS40 ga, 10' long.

4.3.5. BRACE RAILS. Galvanized steel pipe, 1-1/4" dia, SS40 ga, length as required, with 3/8" dia adjustable truss bar.

4.3.6. OUTRIGGER. 45° outrigger atop posts for barbed wire support. Bend shall face outward and shall be pinned to post to prevent removal.

4.3.7. TENSION WIRE. 9 ga galvanized tension steel wire, interwoven, 4" from top and bottom of fence fabric (tension wire is used in lieu of top rail).

4.3.8. FABRIC CLIPS. 9 ga galvanized steel wire, for fastening tension wire to fabric and fabric to line posts, at 15" spacings.

4.4. GROUND ROD. 10' X 3/4" copper-clad ground rod, for fence corner and gate grounding, five required.

4.5. GROUND WIRE. Lengths and gauges as specified, stranded copper.

4.6. CONCRETE. Concrete, adhering to ASTM C 33 and ASTM C 94, having a 28-day compressive strength of 3,000 psi, with a 3 to 4 inch slump, and a maximum aggregate size of 3/4".

4.7. GRAVEL. #57 (3/4") limestone gravel, as specified.

5. INSTALLATION.

5.1. FENCING. Comply with all phases of these specifications, site drawing series CLT-D-ALS36C and reference drawings SO-D-100706-C02 and SO-D-000369-C01. These specifications shall take precedence over site and standard drawings.

5.1.1. Install 8' tall temporary fencing (approx. 270' needed), beyond the fence line to be removed. Temporary fencing shall be continuous and securely fastened to the endmost fence/post to remain, so as to provide an equal-to-existing barrier.

5.1.2. Remove approximately 250' of existing 8' tall fencing (fabric and posts) from the TDWP plot's south and southeast side, per the drawings. Dispose of old fence offsite.

5.1.3. Install fence posts at 10' (min) spacings, imbedded in concrete (min 3'-4" deep). Holes remaining after post removal can be reused for new posts. Allow concrete 48 hours to cure before stressing the posts.

5.1.4. Install chain-link fabric onto line posts, with galvanized clips at 15" centers, and terminate to corner posts with stretcher bars and bar bands.

5.1.5. Outriggers shall face outward, shall add 1' to the fence height, and shall mount the three strands of barbed wire.

5.1.6. The maximum acceptable gap from firm ground is 2" under fence.

5.2. GROUNDING. The fence and gate shall be grounded in the following manner (ignore contradicting references on standard drawings). Ground rods shall be driven to 12" below grade. All connections to ground rods and posts shall be made by exothermic weld.

5.2.2. FENCE GROUNDING. Ground the fence corner posts with a length of #4/0 bare ground wire from a ground rod to 1' above grade onto the corner post. The #4/0 shall be exothermically welded to the post.

5.2.3. BARBED WIRE GROUNDING. Ground the barbed wire at each corner with a bare stranded #6 clamped to each strand and

connected to a mechanically-attached ground lug on the corner post.

5.3. GRAVEL. Install gravel atop areas annotated on the drawings and by local FAA. New gravel shall be spread evenly and blend into surrounding gravel. New gravel depth should average 4", +/-.

6. CLEANUP.

6.1. Before final inspection, the contractor shall thoroughly clean within the construction limits and the surrounding areas affected by this work, including the following:

a. All construction facilities, debris, and rubbish shall be removed from the buildings and the site on a daily basis.

b. All tools, scaffolding, temporary utility connections, building, etc., belonging to the contractor or used under his direction shall be removed from the site.

6.2. All grounds, walkways, and other areas adjacent to the work shall be restored to the original condition before the contractor is released.

7. INSPECTIONS. The contractor shall allow the COR, or other persons designated by the CO, complete access to all portions of the work. The COR shall coordinate and schedule a final inspection date. All work shall be accepted when all work required by this contract, including punch list items, is finished and has passed inspection.