

SECTION 028380
SANITARY LANDFILL FENCE (S-76)
(18' high perimeter containment)

1. DESCRIPTION

This specification shall govern all materials and work required to complete the perimeter containment fence.

2. MATERIALS

WOOD POLES shall be 25' long, southern yellow pine, class 6, poles in accordance with ANSI's "American National Standard Specifications and Dimensions for Wood Poles". Poles shall be treated in accordance with C-4 of the American Wood Preservers Association Standards with Creosote conforming to P-1 of said standards, to a minimum retention of 10 pounds per cubic foot.

WIRE FABRIC shall be 2" by 4", 14 gage, 72" wide, and galvanized.

ZINC-COATED (GALVANIZED) STEEL WIRE STRAND shall be in accordance with ASTM A 475 and shall be 3" 7 strand EHS grade with a minimum breaking strength of 6,650 lb and with Class B coating.

EYEBOLT shall be of 2" steel rod with a minimum shank length of 9.75" (or 1" larger than the pole diameter) and an eye diameter of 1.25". The eyebolt along with the required bolt and washer shall be galvanized. The bolt shall restrain a 1,500 pound load.

STEEL SHACKLE shall be galvanized steel, load rated at a minimum of 2 tons, weldless with screw pin, and shall secure the wire, the wire fabric and wire strands to the eyebolts.

PREFORMED GRIP shall be constructed of helically formed galvanized steel, when applied, encircles the steel wire strand. Two types shall be required; splice grip and terminal grip. The splice grips shall consist of a set of gripping legs at each end for splicing which is used for splicing. The guy grip shall have one looped end as a terminal and the other end with gripping legs for connection to the steel strand. Load capacity of grips shall exceed wire strand capacity.

3. CONSTRUCTION METHODS

The largest end of the pole goes into the ground!

Poles shall be spaced at 25' centers. Embedment of poles shall be between 6.5' and 7'. Maximum allowable horizontal tolerance from true alignment shall be 4".

Backfill around pole shall be cement stabilized sand mixed at a ratio of 1 sack Portland cement per cubic yard of sand. The backfill shall be well compacted around pole after proper alignment has been achieved.

Corner and end bracing shall be placed at all openings and corners.

Wire Fabric shall be spliced such that the capacity of splice is not less than 90% of that of the unspliced section.

4. FENCE OPERATION

The fence is designed to be lowered when the wind speed is anticipated to exceed 60 MPH. This is done by disconnecting the upper two rows of wire fabric and folding them onto the lower row, resulting in a 3 ply fence 6' high.

When indicated on the plans, after the fence has been completely installed, the Contractor will be required to completely lower the fence to the 6' position. The fence shall then be corrected of any operational deficiencies, and restored to its normal position by the Contractor. This shall be considered subsidiary work.

Sequence of lowering shall generally be as follows:

1. Remove tie wires connecting the fabric to the top wire strand within 30' of end or corner connection.
2. Disconnect top row of shackles beginning at end or corner connection.
3. Use shackles from top row to connect the lowered top strand with the lower intermediate strand.
4. Retention the lowered top strand and connect at end or corner connection.
5. Retie wire fabric within 30' of end or corner section along the lowered top wire strand.
6. Remove tie wire connecting the fabric to the upper intermediate wire strand within 30' of end or corner connection.
7. Disconnect upper intermediate row of shackles beginning at end or corner connection.
8. Use shackles from the upper intermediate row to connect the lowered upper intermediate strand with the bottom strand.
9. Retention the lowered upper intermediate strand at end or corner connection
10. Retie wire fabric within 30' of end or corner section along the lowered upper intermediate strand.

5. EXTRA MATERIALS

The Contractor shall provide the Sanitation Department with the following materials:

ITEM	QUANTITY
Galvanized Steel Wire Strand	1,000 Ft. Roll
Galvanized Shackles	50
Preformed Splices Grip	25
Preformed End Grip	25
Wire Fabric	100 Ft. Roll

The extra materials shall be furnished to the Sanitation Department storage yard at the landfill and shall be considered subsidiary to the project.

6. MEASUREMENT & PAYMENT

Unless indicated otherwise in the Proposal, Sanitary Landfill Fence shall be by the linear foot along the center line of the fence and shall include but not be limited to post, wire, connections, splices, sand backfill, corner and end sections, etc.

Payment shall fully compensate the Contractor for all materials, labor, equipment, and other incidentals required to install the fence.