

358 Welded Mesh Secure Van Compound Plan

1. Project Overview

This document outlines the plan for constructing a secure, fully enclosed 358 welded mesh van compound at Kingdom Builders Preschool & Day Care, 8216 Central Ave SE, Albuquerque NM. The compound will protect three full-size vans from theft and unauthorized access using anti-climb welded mesh panels on all four walls plus a full mesh roof — eliminating any possibility of climbing over or through the enclosure.

Central Ave SE is one of Albuquerque's highest-crime corridors. Trespassers in this area are experienced climbers. A fence alone is not sufficient — the compound must be fully enclosed on all sides and the top.

Reference Photos

The left photo shows another day care's existing enclosure — welded mesh panels but insufficient overhead coverage and not adequately secure. The right photo shows the target design: a fully enclosed 358 anti-climb mesh compound with a complete overhead mesh roof. Kingdom Builders Preschool & Day Care must meet or exceed the security level shown on the right.



Nearby day care — insufficient overhead coverage, not secure enough



Target design — 358 anti-climb mesh walls + full overhead mesh roof

358 Welded Mesh Secure Van Compound Plan

2. Why 358 Welded Mesh

The 358 welded mesh system is the correct and only solution for this location and threat level:

No footholds or handholds	The 1/2" x 3" mesh openings are too small for fingers or toes. Even skilled climbers cannot scale this fence.
No-cut design	Tight mesh openings prevent standard bolt cutters from getting purchase on the wire. Requires specialty tools and significant time.
Full overhead roof required	358 mesh panels installed horizontally across the steel tube roof frame. Nothing gets in or out except through the gate.
Professional appearance	Powder-coated black or any RAL color. Clean, intentional look appropriate for a childcare facility.
CCTV-compatible	Flat, tight mesh creates no blind spots. Security cameras see through cleanly in any direction.
Proven security standard	Used at airports, correctional facilities, military installations, and schools worldwide.
20-year product warranty	Galvanized + powder-coated finish guaranteed against rust and corrosion. Very low maintenance.

3. Design Specifications

Based on standard full-size van dimensions: 20 ft long × 7 ft wide × 9 ft tall (high-roof models reach 9.5 ft). All walls and the roof must use 358 anti-climb mesh.

Interior width (min.)	25 ft — fits 3 vans side-by-side with door clearance
Interior length (min.)	22 ft — pull-through layout recommended
Wall height	12–14 ft posts clearing van rooflines + roof clearance
Wall panels	358 anti-climb welded mesh, 1/2" × 3" aperture, 8-gauge (4mm) wire, powder-coated black
Roof structure	Square HSS steel tube frame welded to post tops, spanning full compound footprint
Roof panel	358 mesh (same spec as walls) fastened across full roof frame
Posts	Square steel HSS posts in concrete footings, 8–10 ft spacing
Gate	12–14 ft sliding gate, 358 mesh, electric strike or heavy-duty padlock
Perimeter estimate	Approximately 180 linear feet
Finish	Hot-dip galvanized + polyester powder coat, matte black (RAL 9005) or custom color
CoA permit	Required for commercial fences over 6 ft — Development Services: (505) 924-3946
Engineering review	Recommended for roof frame per NM wind load requirements

358 Welded Mesh Secure Van Compound Plan

4. Signage (3 Signs)

Permanent signs over 6 sq ft require a CoA permit — CoA Planning: (505) 924-3601.

Sign 1 — Gate face	Kingdom Builders Preschool & Day Care name + logo on sliding gate or gate post. Backlit channel letters or illuminated vinyl on ACM panel backing.
Sign 2 — Street panel	Address + phone number visible from Central Ave. Reflective or backlit vinyl on street-facing post or ACM panel on mesh frame.
Sign 3 — Security notice	"Private Property — 24-Hour Video Surveillance" at eye level with stainless tamper-resistant hardware. Legal notice + deterrent.
Lighting	Motion-activated LED at gate entry complements signage and improves camera coverage overnight.
Permit cost	\$150–\$300 per sign permit from CoA Planning Dept.

5. Cost Estimate

Market-rate estimates for Albuquerque, early 2026. Obtain written quotes from at least 3 contractors before committing.

Item	Unit Cost	Estimate
358 mesh walls (180 LF, 12–14 ft posts)	\$35–\$55 / lin. ft	\$6,300 – \$9,900
Overhead mesh roof structure + panels	\$12–\$20 / sq. ft	\$6,500 – \$10,800 (est. 540 sq ft)
12–14 ft sliding gate (matching 358 mesh)	\$3,500 – \$6,000	\$3,500 – \$6,000
Electric gate operator (optional)	\$1,500 – \$3,500	\$1,500 – \$3,500
CoA fence permit	~\$500–\$1,000 flat	\$500 – \$1,000
Roof structural engineering stamp	\$1,000 – \$2,500 flat	\$1,000 – \$2,500
TOTAL ESTIMATED RANGE		\$19,300 – \$33,700

Signage, lighting, cameras, and landscaping not included. Contact Mission ABQ to discuss how you can help fund this project.

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6. Vendor Recommendations

Request bids from at least three vendors. Specify: (1) 358 anti-climb welded mesh panels, (2) full overhead mesh roof on steel HSS tube frame, (3) 12–14 ft sliding gate to match. Ask for NM contractor license number, liability insurance, and 1-year workmanship warranty in writing.

Vendor	Contact	Notes
Albuquerque Fence Co.	(505) 888-3533 abqfence.com	Family-owned since 1968. Commercial & industrial security specialists. Free estimates, bilingual.
Valley Fence Company NM	valleyfencecompanynm.com	50+ years in ABQ. Strong commercial track record. Request welded mesh enclosure experience specifically.
ABQ Fence Company	(505) 273-4824 abqfencecompany.com	Locally owned. Specializes in enclosures and custom security gates. Licensed and insured.
Freddy's Fence ABQ	fencealbuquerque.com	AFA member since 2013. Lifetime warranty on some products. Online quote tool.
MFR Corp / Metalco	mfrcorp.com (800) 422-9217	Manufactures Securite 358 — the exact product specified. 20-year warranty. Can refer NM installer.
Wallace Perimeter Security	wallaceperimetersecurity.com	Makes Rampart 358 enclosed vehicle compounds with roofs. Has engineering drawings for this project type.

Mission ABQ is a non-profit organization, established in 1999 to bring hope to a community in need, helping people turn the corner from a place of need to a place of service to others.

We do this by 1) Meeting people at their point of need (meeting real and felt needs) 2) Providing education and training in areas of need to bring individuals to a place of health and wholeness, and 3) Empowering people to care for and meet the needs of others.

