SLOAN
SECURITY GROUP

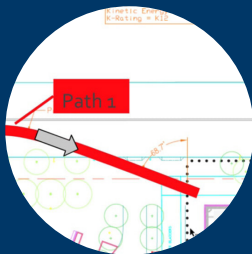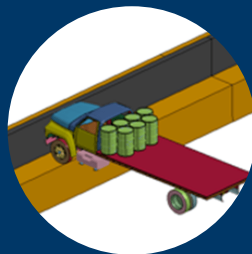**WWW.SLOANSG.COM/DESIGN**

Design and Engineering

ENGINEERING CAPABILITIES

Predict, Prevent, and Protect.

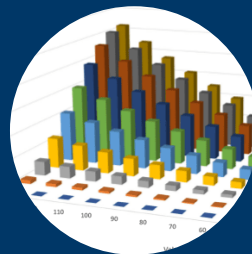### Perimeter Vehicle Vector Analysis

Vector analysis determines the minimum crash rating required at each location and can inform product selections.

Building Info Modeling (BIM)

BIM assists in predicting potential construction hazards, while validating the safety of the final security design.

Risk Assesment and Modeling

Risk assesments and risk modeling can improve safety and reduce costs associated with accidents and attacks.

Ballistic Attack Sightline Analysis

Sight-line software uses drones and 3D digital mapping to predict key attack points that can inform the final design.

DESIGN GUIDELINES

We Have High Standards.

Sloan has worked with many security standards and requirements from the Army Corps of Engineers, ASTM, NERC, and more.
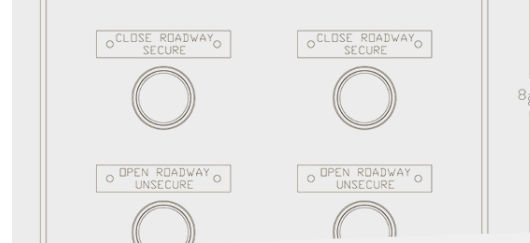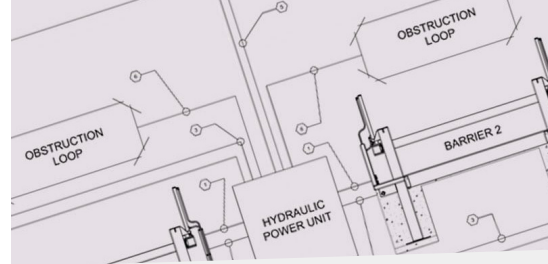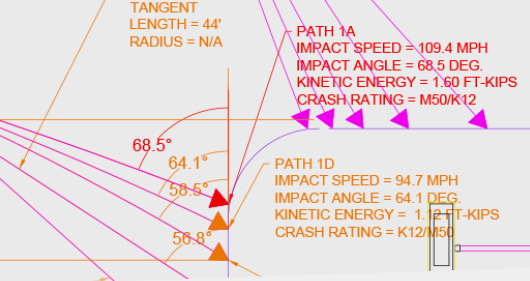
ASTM INTERNATIONAL

FEMA

CYBERSECURITY & INFRASTRUCTURE SECURITY AGENCY

NERC
NORTH AMERICAN ELECTRIC RELIABILITY CORPORATION

UKRI
Natural Environment Research Council

TANGENT
LENGTH = 44'
RADIUS = N/A

PATH 1A
IMPACT SPEED = 109.4 MPH
IMPACT ANGLE = 68.5 DEG.
KINETIC ENERGY = 1.60 FT-KIPS
CRASH RATING = M50/K12

68.5°
64.1°
58.5°
56.8°

PATH 1D
IMPACT SPEED = 94.7 MPH
IMPACT ANGLE = 64.1 DEG.
KINETIC ENERGY = 1.12 FT-KIPS
CRASH RATING = K12/M50

OBSTRUCTION
LOOP

OBSTRUCTION
LOOP

BARRIER 2

HYDRAULIC
POWER UNIT

CLOSE ROADWAY
SECURE

CLOSE ROADWAY
SECURE

OPEN ROADWAY
UNSECURE

OPEN ROADWAY
UNSECURE

DESIGN TEAM EXPERTISE

We'll Solve Your Most Difficult Design Challenges.

Sloan's diverse experience installing and repairing security equipment for over 30 years has enabled them to deliver some of the safest and most effective designs in the world.

Collaborative Design-Build Security Team

2D/3D Renderings and Construction Documentation

Crime Prevention Through Environmental Design (CPTED)

Access Control System Design & Design-Assist
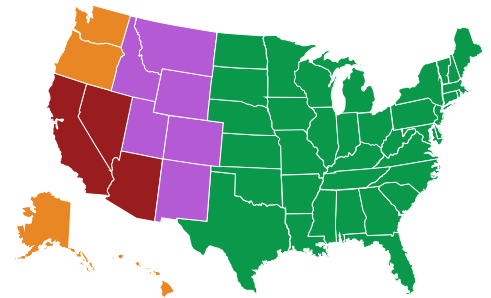
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