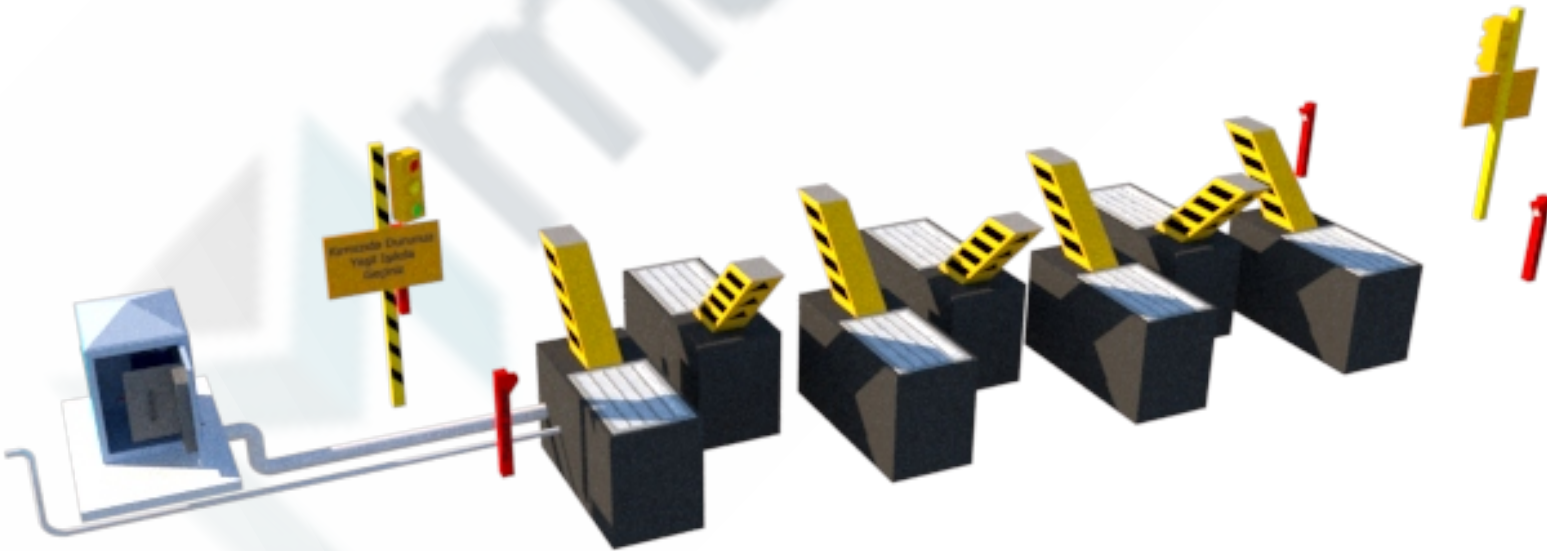


The IT-K12-WBB automatic hydraulic wedge group bollards have been designed to ensure the anti-terrorist defence. Current models are the result of our 40 years' experience in the security field and in excess of 20 years in the specific design and manufacture of automatic bollards.

The installation of IT-K12-WBB bollards is recommended for any sensitive site like company driveways, industrial driveways, research centres, embassies, police facilities and military bases. A large range of optional accessories is available to customize your system according to any security needs



AVAILABLE ITEMS

BOLLARD IT-K12-WBB TYPE 1 – NORMAL STEEL PAINTED

BOLLARD IT-K12-WBB TYPE 2 – STAINLESS STEEL BRUSHED (AISI 304)

BOLLARD IT-K12-WBB TYPE 3 - STAINLESS STEEL PAINTED

BOLLARD IT-K12-WBB TYPE 4 - NORMAL STEEL HOT DIP GALVANIZED

HEAD WITH MULTILED LIGHTING STRIP 20 LED POINTS

ACOUSTIC WARNING SIGNAL

ATTENTION: AVAILABLE ONLY FOR HEAD WITH MULTILED FLASHING LIGHT

ADHESIVE REFLECTING STRIP YELLOW-BLACK

FOUNDATION BOX WITH COUNTERFRAME AND REBARS

REMOTE RADIO RECEIVER

RADIO TRANSMITTER

TRAFFIC LIGHT WITH TWO LIGHTS (RED - GREEN)

INDUCTIVE DETECTOR FOR TWO INDUCTIVE LOOPS

INDUCTIVE LOOPS

HEATING RESISTANCE - TRANSFORMER - THERMOSTAT

HYDRAULIC SYSTEM UNIT

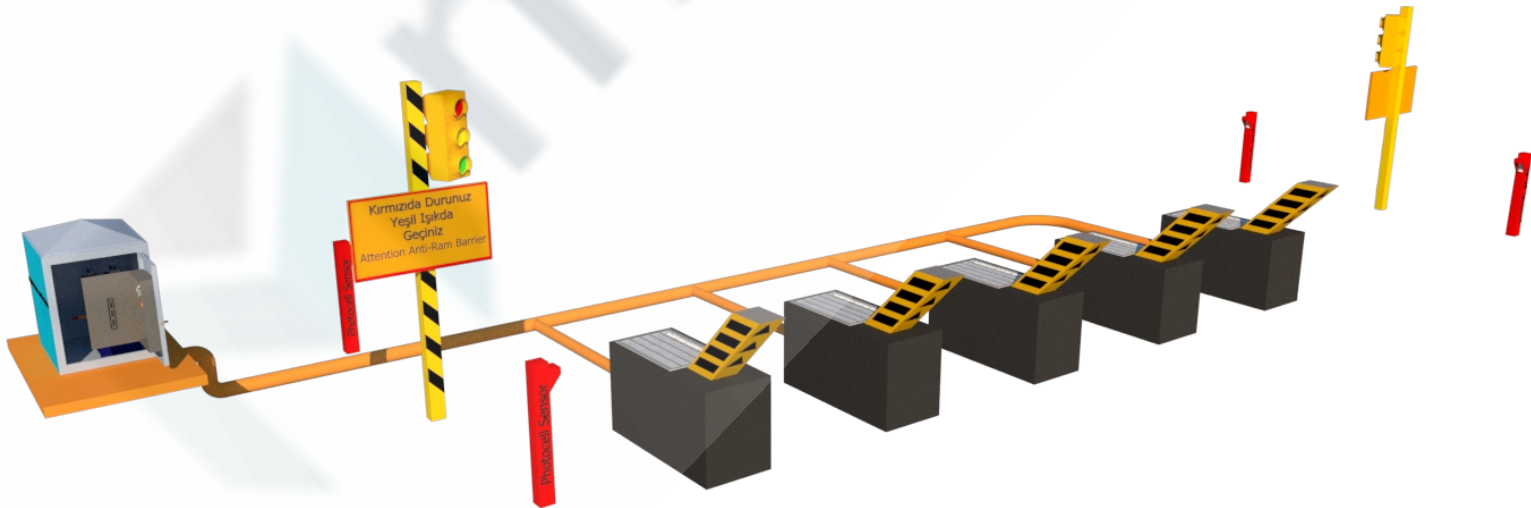
HYDRAULIC FIELD BOX Ip65

HYDRAULIC RUBBER PIPE LINE

Anti-Ram Angle Bollard Barrier , Counter Terror Wedge Bollard Barrier

These barrier types called pile type. It is one of our high security barrier types . Can work in groups and individually. It is one of the road blocker anti-ram barriers. Our anti-terrorist bollard barrier systems working as a group have foreign-approved crash test certificates. Our test standard is ASTM M50 (PAS 68, K12 8000 kg. 85 km/h).

Our barriers, which are one-way closure type, can be mounted in the opposite direction and can close the 2-way road. And it provides a higher security. Its design is completely owned by our company. Patent and design model right has been registered by our company. Absolutely cannot be copied. Mounting on the ground painfully and transmitting the entire load directly on the ground during impact, These barriers allow our barriers to stop heavier vehicles. Our Barriers are countering terrorism barriers



With its design, tank and panzer type vehicles cannot pass our pile type barriers. Despite its long length, one of the most important advantages of inclined mounting is that the depth mounting is less and it can be installed at a shallow depth.

Barriers can be mounted by changing the miter angle from each other (see Figure 1. In our photos). This mounting design is a very important advantage. At the security guard entrances that open directly to the road; It directly protects the entrance in every direction from right entrances - left entrances and vertically linear entrances in terrorist attacks with heavy vehicles. It is a stronger barrier. This feature is less in cylindrical pipe type bollard barriers.

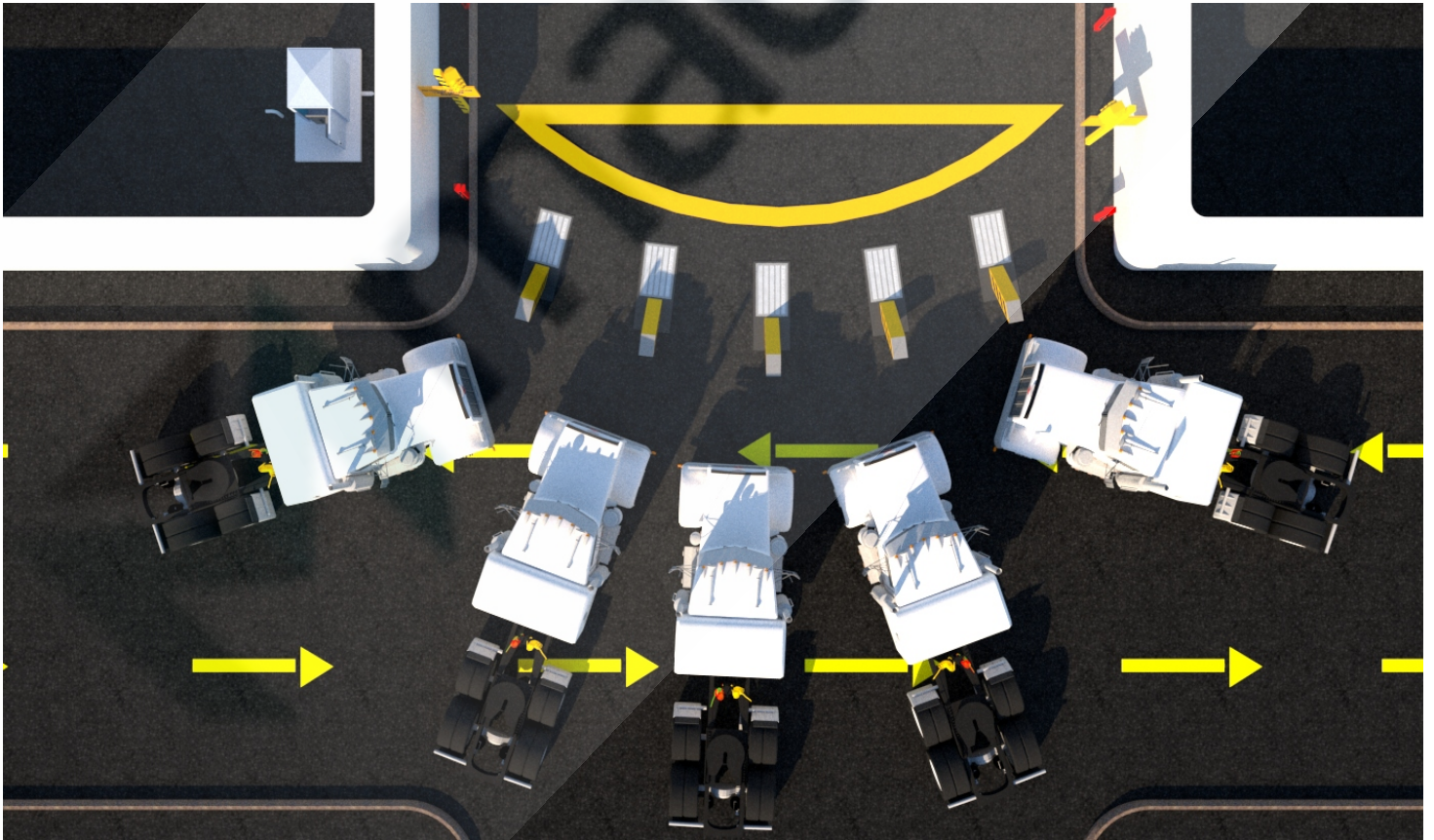
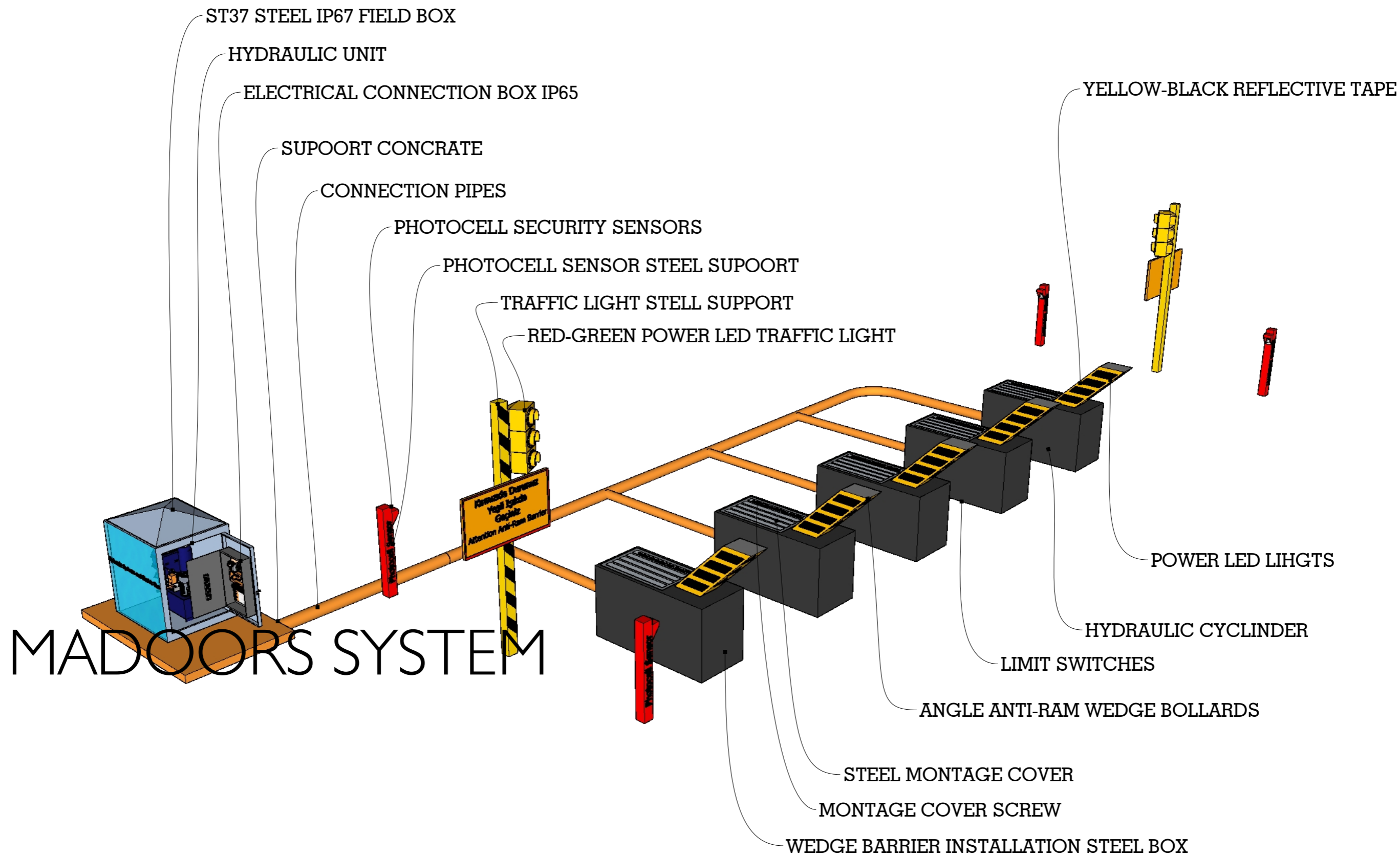


Figure 1.

TECHNICAL SPECIFICATION

WORKING SYSTEM	HYDRAULIC UNIT OR ELECTRO-MECHANICAL REDUCER MOTORS
OPERATING VOLTAGE	220 VOLT AC. OR 380 VOLT AC. 50/60 HZ.
OPERATING TEMPERATURE RANGE	- 45 / + 65 CELSIUS DEGREES
BOLLARD BODY	STAINLESS STEEL OR ST 37 STEEL
BOLLARD COVERING	HOT-DIP GALVANIZED , ELECTRO-STATIC PAINT , EPOXI PAINT
PROTECTION CLASS	IP 65 / IP 67
IMPACT TEST RATED	K12 / PAS68 (7500 KG. 80 KM/h)
REMOTE CONTROL	YES
CABLE CONTROL BUTTON	YES
SECURITY SENSORS	PHOTOCELL SENSORS OR LOOP SENSORS
TRAFFIC LIGHTS	R= 20 CM POWER LED GREEN/LED OR R=10 CM POWER LED GREEN/LED
DISCHARGE SYSTEM	YES
SPEED CONTROLLER	YES (EMERGENCY 2 SECONDS OPERATION)

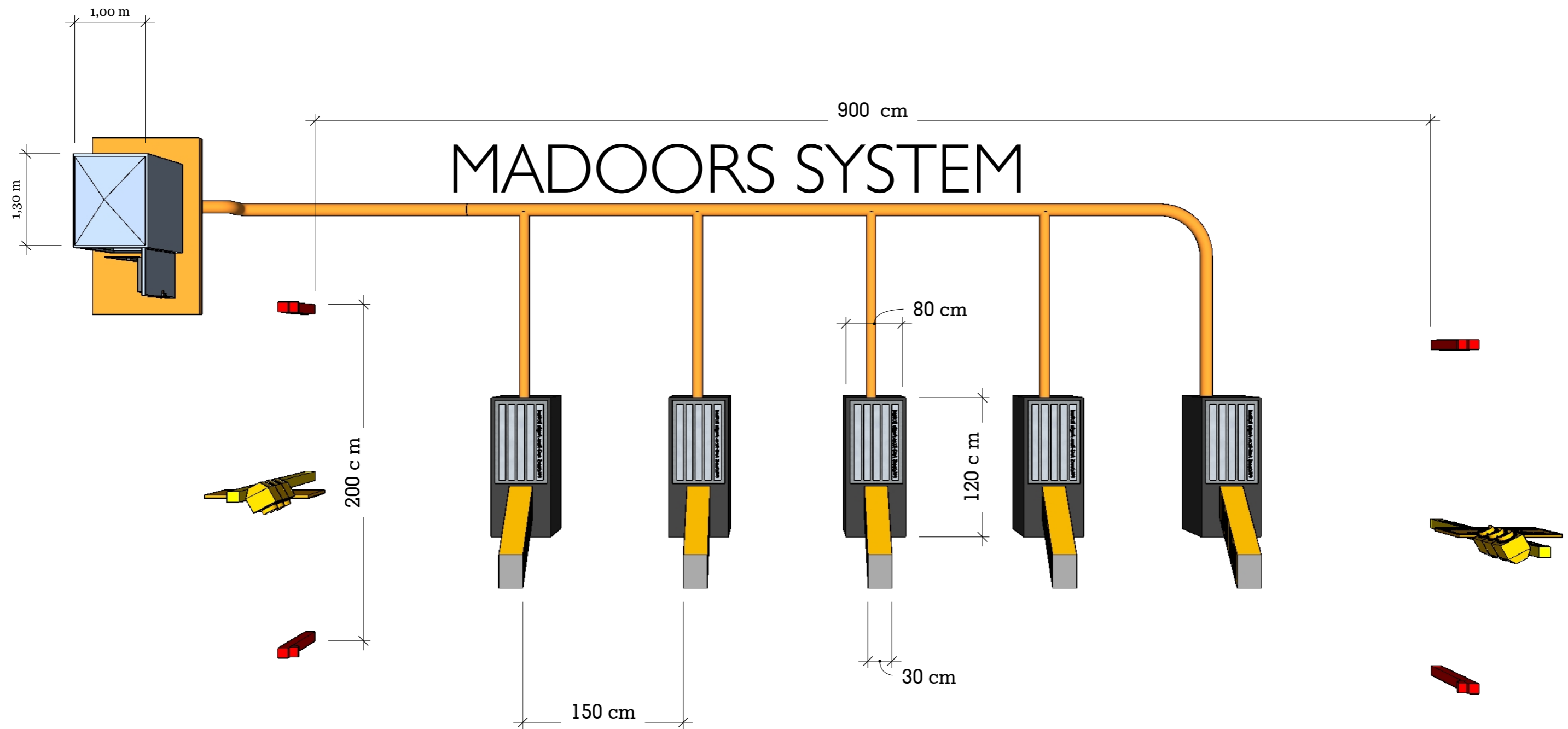


ANTI-RAM WEDGE BOLLARD BARRIERS

MADDOORS SYSTEM

IMPACT TEST RATED BARRIER SYSTEMS

REVISIONS	
MM/DD/YY	REMARKS
1	... / ... / ...
2	... / ... / ...
3	... / ... / ...
4	... / ... / ...
5	... / ... / ...



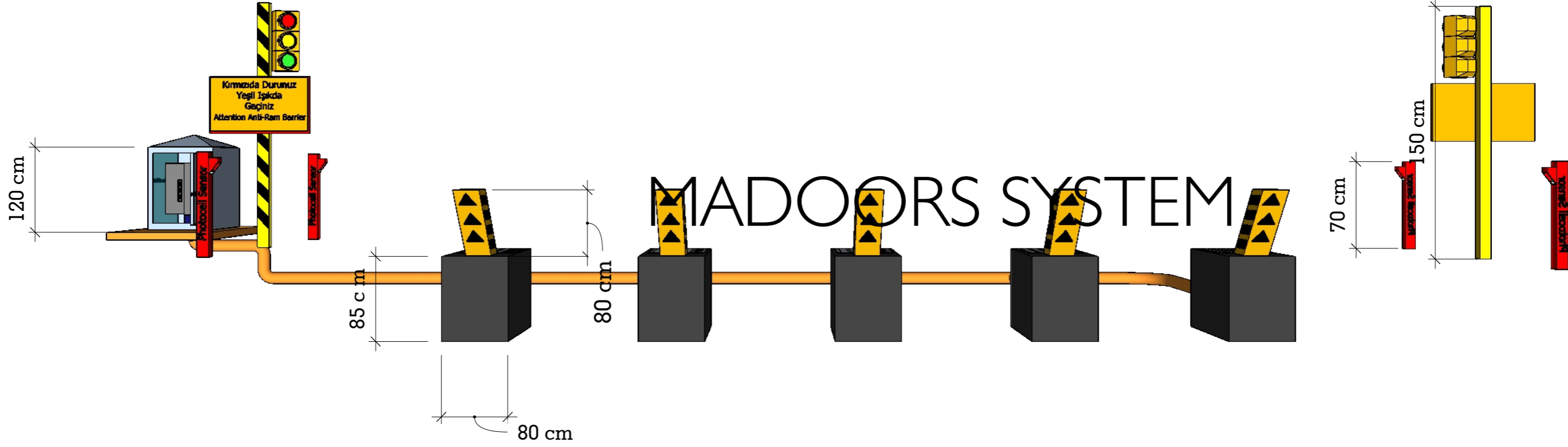
ANTI-RAM WEDGE BOLLARD BARRIERS

MADOORS SYSTEM

IMPACT TEST RATED BARRIER SYSTEMS

REVISIONS	
MM/DD/YY	REMARKS
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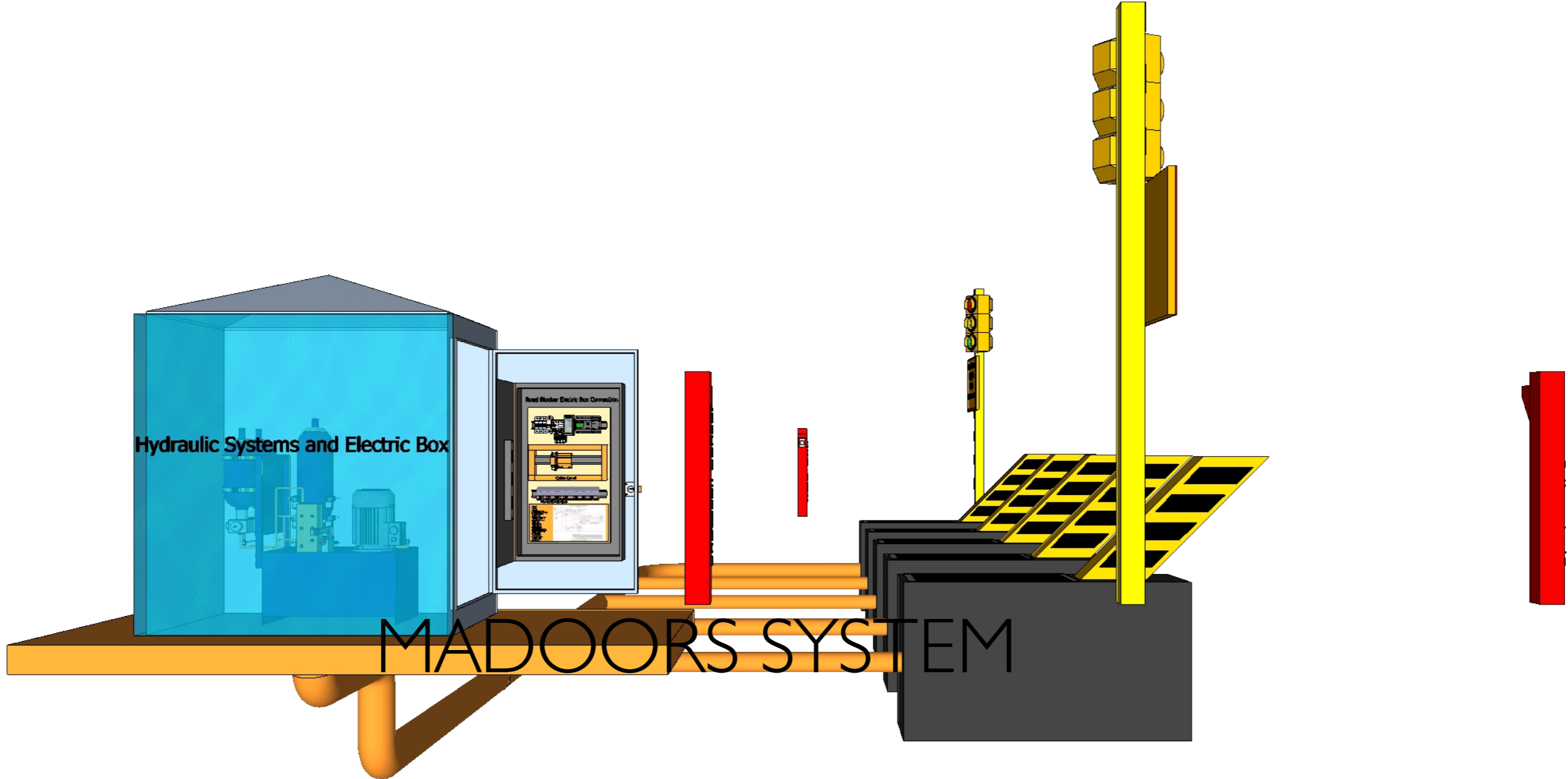
FRONT VIEW



ANTI-RAM WEDGE BOLLARD BARRIERS

MADDOORS SYSTEM
 IMPACT TEST RATED BARRIER SYSTEMS

REVISIONS	
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ANTI-RAM WEDGE BOLLARD BARRIERS

MADOORS SYSTEM
 IMPACT TEST RATED BARRIER SYSTEMS

REVISIONS	
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