Rhode Island Division of Public Utilities and Carriers

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Pipeline Safety Engineer

Cape Cod Pipeline Safety Seminar 2011





Meter Set Protection

What are the odds of one of your gas meters getting hit by a car resulting in an explosion?

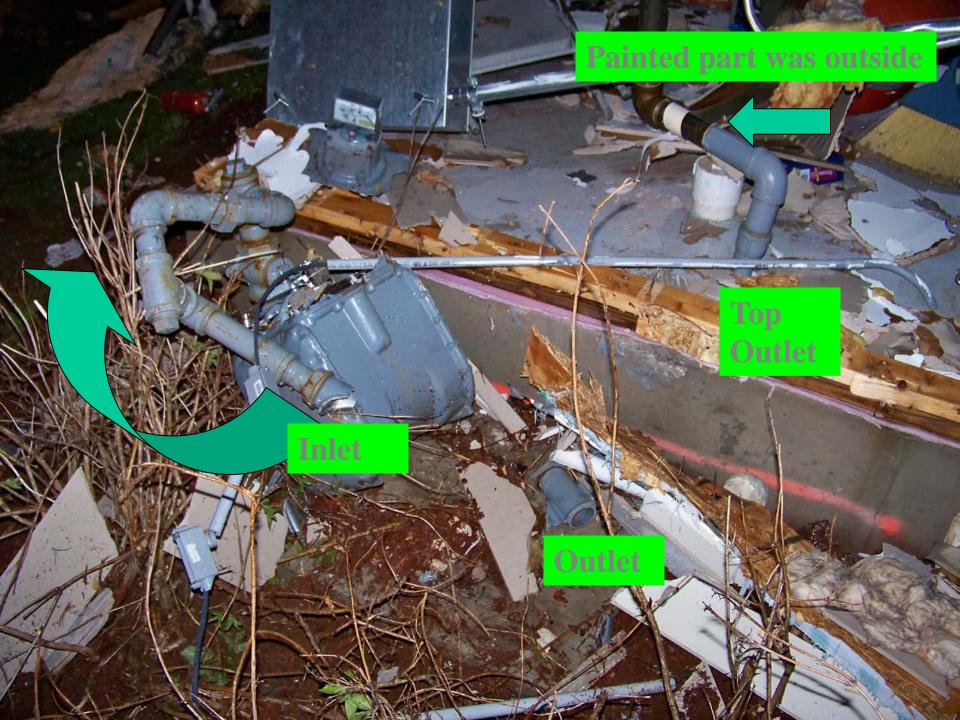
In Rhode Island we have about 186,000 gas meters.

1 explosion divided by 186,000 meters equals =

1/186,000 =

.0000053763





October 11th, 2000 Cromwell, Connecticut

49 CFR §192.353

Customer meters and regulators: Location

(a) Each meter and service regulator whether inside or outside of a building, must be installed in a readily accessible location and be *protected from* corrosion and *other damage*.

"Protection of meters and regulators"

September 15th, 2003 Washington, DC

Federal Regulations

- 192.353 Customer Meters and Regulators: Location.
 - (a) Each meter and service regulator, whether inside or outside a building, must be installed in a readily accessible location and be protected from corrosion and other damage, including, *if installed outside a building, vehicular damage that may be anticipated.* However, the upstream regulator in a series may be buried.

"Other Damage"

What should we consider when protecting meter sets from "other damage"?









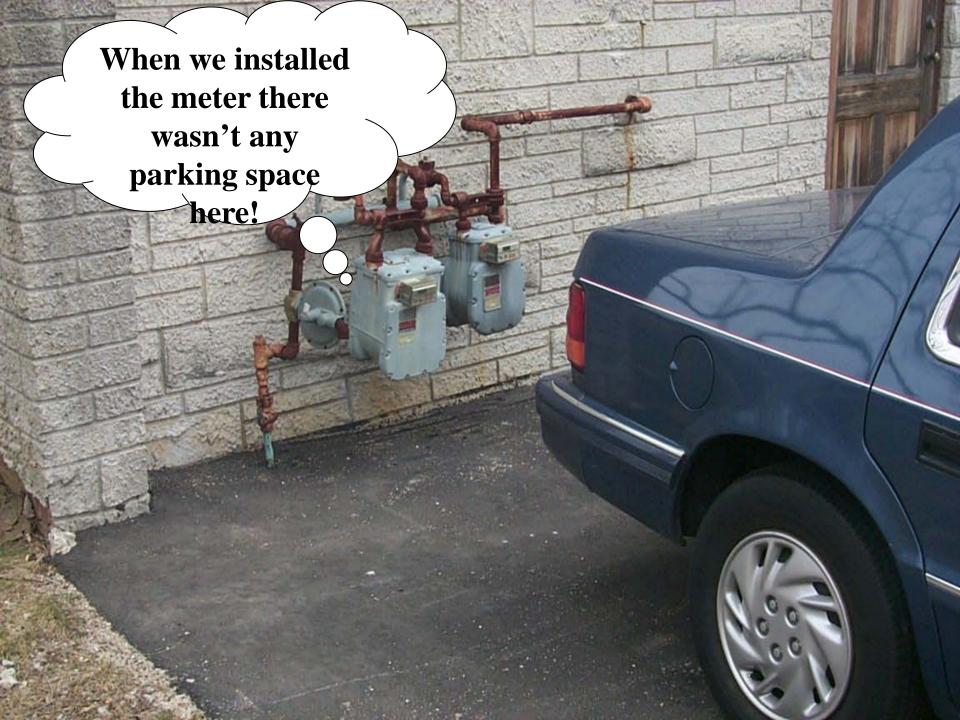


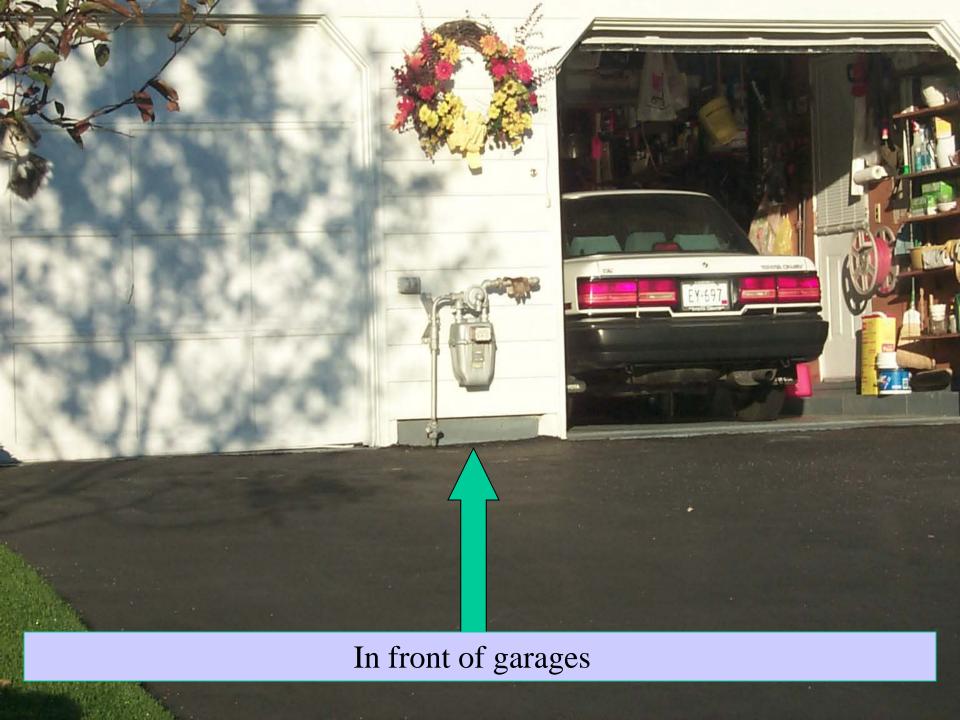
"Vehicular Damage that may be anticipated"

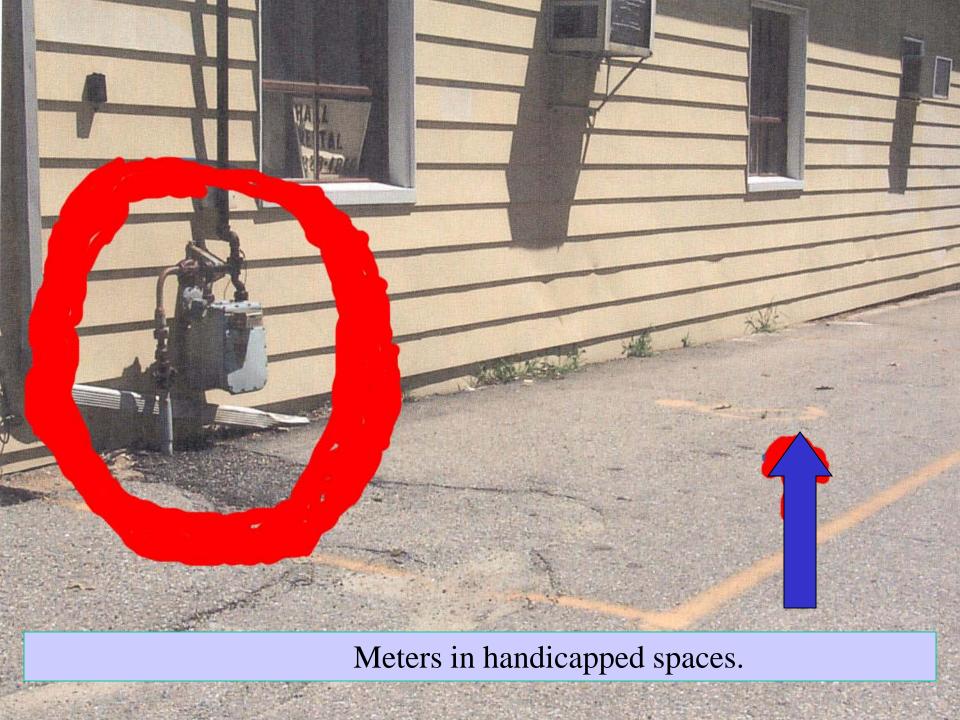
What should we consider when protecting meter sets from "Vehicular damage that may be anticipated."



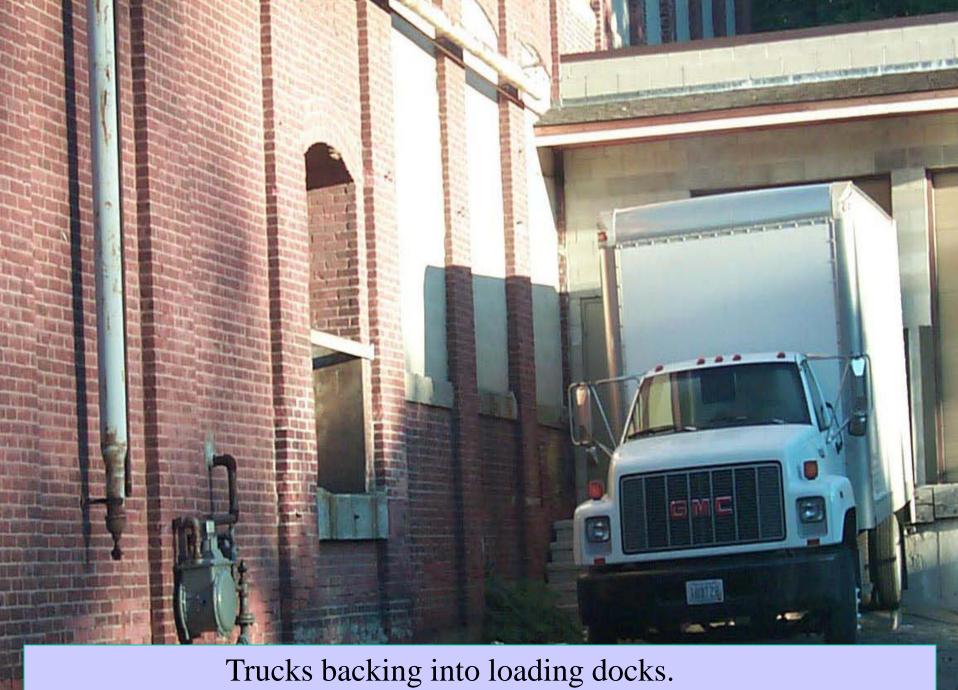














Snow plows: 2:00 in the morning during a blizzard.





What

is

Adequate

Protection?





Is one pole enough?



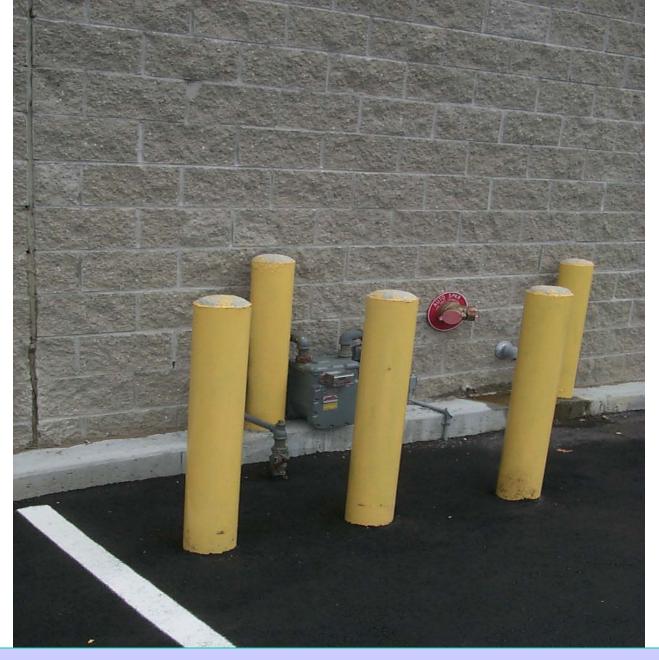
Can you drive a car through the opening.







Post size matters, just keep adding them until you have enough.



But you don't have to go overboard by adding too many posts.



But you don't have to go overboard by adding too many posts.

F=MA

• Force equals mass times acceleration...

F=MA

• Acceleration varies...

- Consider someone backing up at 5-10 mph.
- Skidding on ice.
- A snow plow operating at 10-15 mph

F=MA

Mass also varies...

- A dump truck with 10 yards of crushed stone
- A cement truck with 10 yards of cement
- A flatbed trailer with 20 tons of i-beams















Landscape Lighting

Customize With Graphics

"AD" Value! Display Graphics to Promote Your Company!

- Low Density Polyethylene (LDPE) Plastic!
- 57" Tall! Lower Heights Available!
- Fits 6" Diameter Standard Post!
- Ultra Violet (UV) LED Technology!
- White LED's Have 75,000 Hour Rating! Color LED's Have 100,000 Hour Rating!

Easily Update Promotions!











BEFORE AFTER

PVC] FOR 4"

Protects & Be **Unsightly Woo**

- Snaps together in 4 pier
- Covers posts up to 9 fee
- Simple to install
- Inexpensive
- · Maintenance Free
- · Strong, Resilient, Exteri
- Easy to clean
- · Available in White or Wo
- · Two trim collars with ea

(Trim collars come as a 2 pc. s

SPECIFICATIONS		
	PPC-49	PPC-69
MATERIAL	PVC	PVC
MATERIAL THICKNESS	1/8"	1/8"
WALLTHICKNESS	5/16"	5/16"
INSIDE DIMENSIONS	3-3/4"	5-5/8"
OUTSIDE DIMENSIONS	4-5/16"	6-3/16"

PART#	F
PPC-49-*	
PPC-TC4-*	Τ
PPC-69-*	
PPC-TC6-*	I
*Dlease I	ΙΟΔ

Please use

Installation II

Hollow Pipe



Cement Filled

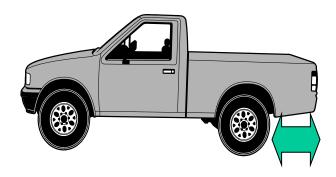


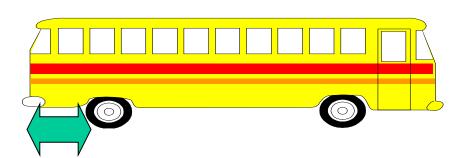
Cement adds bulk but not strength.

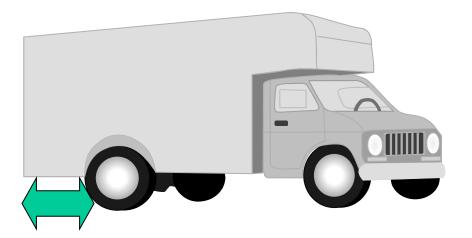
Height

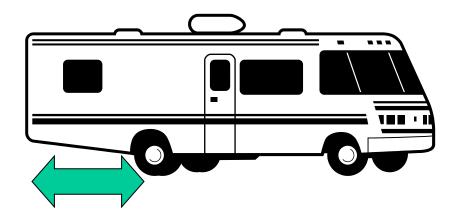


Set back









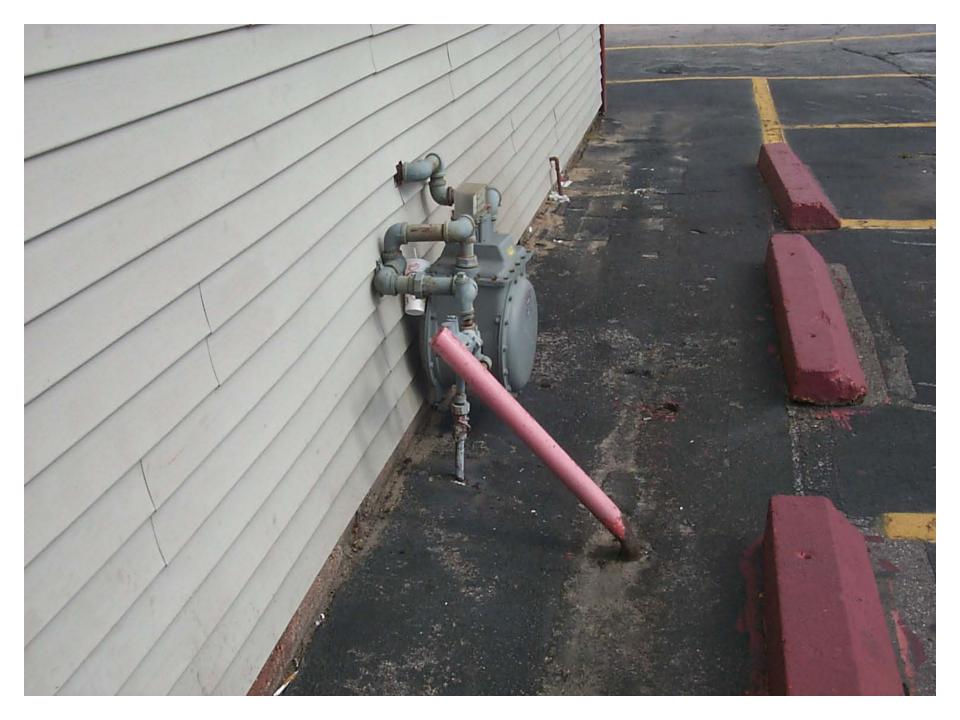


Consider Reflective Tape?



Last point:

Repair posts after they get damaged...



Boots on the ground

- 1.) Leak Survey Technicians
 - 2.) DigSafe Line Markers
 - 3.) AMR drivers
 - 4.) Service Technicians



Time's Up....

