

# SAFETY SOLUTIONS GUIDE



## THE 3 GOLDEN RULES OF TRENCH SAFETY

Trenches 5 ft or deeper require a protective system — OSHA 1926.652



### 1 SLOPE IT

Slope trench walls away from the trench at a safe angle determined by the onsite competent person.



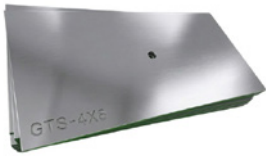
### 2 SHORE IT

Brace the walls with hydraulic shoring to stop soil movement.



### 3 SHIELD IT

Work inside a trench box that protects crews from cave-ins.



## Road Plates



Secure plates against shifting and ensure proper plate overlap to prevent hazards.

| Size            | Weight |
|-----------------|--------|
| 4' x 6'         | 984    |
| 4' x 8'         | 1,312  |
| 4' x 10'        | 1,640  |
| 5' x 8'         | 1,640  |
| 5' x 10'        | 2,050  |
| 5' x 12'        | 2,460  |
| 6' x 10'        | 2,460  |
| 6' x 12'        | 2,952  |
| 8' x 10'        | 3,280  |
| 8' x 12'        | 3,936  |
| 8' x 16"        | 5,248  |
| 8' x 20"        | 6,560  |
| 8' x 20" x 1.5" | 9,760  |

## Cold-Mix Asphalt

Cold Patch 60LB Bags



## Bedding Boxes



Keep spoil, loads and equipment at least 2 ft back from the edge excavation.

| Size    | Weight |
|---------|--------|
| 7 Yard  | 6,120  |
| 9 Yard  | 6,890  |
| 12 Yard | 8,690  |



## Steel Trench Boxes

Spreaders 2'-20' Custom sizes available upon request.

Spreader weight = #41 Linear foot Ea.



Vertical Pipe Clearance:  
12' Tall Box - 109"  
10' Tall Box - 89"  
8' Tall Box - 65"

| H' X L' x Panel Thickness | Weight |
|---------------------------|--------|
| 4' x 8' x 4"              | 2,515  |
| 4' x 10' x 4"             | 3,395  |
| 4' x 12' x 4"             | 3,770  |
| 4' x 16' x 4"             | 4,340  |
| 4' x 20' x 4"             | 5,910  |
| 4' x 24' x 4"             | 6,743  |
| 4' x 28' x 6"             | 10,250 |
| 6' x 10' x 4"             | 4,338  |
| 6' x 12' x 4"             | 4,700  |
| 6' x 16' x 4"             | 5,620  |
| 6' x 20' x 4"             | 7,650  |
| 6' x 24' x 4"             | 9,370  |
| 6' x 28' x 6"             | 12,660 |
| 8' x 8' x 4"              | 5,062  |
| 8' x 10' x 4"             | 5,330  |
| 8' x 12' x 4"             | 6,710  |
| 8' x 16' x 4"             | 7,890  |
| 8' x 20' x 4"             | 10,340 |
| 8' x 24' x 4"             | 11,600 |
| 8' x 28' x 6"             | 13,912 |
| 10' x 8' x 4"             | 5,220  |
| 10' x 10' x 4"            | 6,400  |
| 10' x 12' x 4"            | 7,860  |
| 10' x 16' x 4"            | 9,628  |
| 10' x 20' x 4"            | 11,900 |
| 10' x 24' x 4"            | 13,800 |
| 10' x 24' x 6"            | 15,070 |
| 10' x 28' x 6"            | 15,200 |
| 12' x 10' x 4"            | 8,200  |



## Manhole Boxes 4-Sided

Removable doors available



A competent person must inspect daily and after rain to identify hazards.

| H' x W' x L'   | Weight |
|----------------|--------|
| 4' x 8' x 8'   | 2,863  |
| 4' x 10' x 10' | 3,831  |
| 6' x 10' x 10' | 5,840  |
| 8' x 8' x 8'   | 6,636  |
| 8' x 10' x 10' | 7,318  |



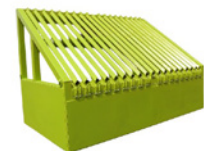
## Trench Bridges

Wheels Optional



Walkways over trenches 6 ft or deeper require guardrails.

| Size |     |
|------|-----|
| 6'   | 12' |
| 8'   | 16' |
| 10'  | 20' |



## Sifter Screen/Material Separators



Stand clear — never work under loads being lifted or screened.

| Size                        | Weight |
|-----------------------------|--------|
| Box 12 Yard Adj Minus 1"-6" | 5,900  |



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**BECAUSE EVERY TRENCH  
DESERVES A GUARDIAN.**



## Modular Aluminum Panel Systems

**\*2-Sided \*3-Sided \*4-Sided Configuration available**

Install and use only per the manufacturer's tabulated data.

| H' x L'                           | Weight |
|-----------------------------------|--------|
| MAPS 2' x 3'                      | 51     |
| MAPS 2' x 4'                      | 66     |
| MAPS 2' x 5'                      | 80     |
| MAPS 2' x 6'                      | 95     |
| MAPS 2' x 7'                      | 109    |
| MAPS 2' x 8'                      | 124    |
| MAPS 2' x 10'                     | 153    |
| MAPS 2' x 12'                     | 182    |
| MAPS Wheel Kit                    |        |
| MAPS Stacking Brackets (Set of 4) |        |
| MAPS Adjustable Legs (Set of 4)   |        |



## Confined Space Equipment

Before entry and continuously while occupied. Test top, middle and bottom — gases stratify.

### Item

8" D/C Blower  
8" x 25" Blower Duct  
12" D/C Blower  
12" x 25" Blower Duct  
Gas Monitor  
BTS Davit Arm Kit  
BTS Davit Truck Base  
BTS Tripod System



## Pipe Plugs

Never stand in line with a pressurized plug; release pressure first.

### Item

Pipe Plugs 4" - 60"  
Cleaning Ball  
20' Lift Line

## Pipe Testing Equipment

### Size

SDR 35 | SDR 26  
Deflection Gauges 6" - 15"  
Leak Locator Test Panel  
Leak Locator Kit  
Leak Locator Reel 500'



## Hydraulic Shoring

**Bare or Mounted W/ 3/4" Finland Form**

Install top-down, remove bottom-up — always from outside the trench.

| Size      | Cylinder Range | Color Code |
|-----------|----------------|------------|
| Rail Size |                |            |
| 1.5       | 17" - 27"      | Yellow     |
| 3.5'      | 22" - 36"      | Red        |
| 5'        | 28" - 46"      | Green      |
| 7'        | 34" - 55"      | Blue       |
| 9'        | 42" - 69"      | Brown      |
| 12'       | 52" - 88"      | Black      |
| 16'       | 76" - 112"     | W/ #1 Ext  |
| 20'       | 94" - 130"     | W/ #2 Ext  |
|           | 108" - 144"    | W/ #3 Ext  |
|           | 144" - 180"    | W/ #4 Ext  |

\* Rails fit all cylinder ranges



## Hydraulic End Shore

Match the cylinder range to the trench width while maintaining reserve stroke for proper installation

| Rail Size | Cylinder Range         | Weight             |
|-----------|------------------------|--------------------|
| 4' HD     | 28" - 46"<br>42" - 69" | 139 lbs<br>153 lbs |
| 5' HD     | 28" - 46"<br>42" - 69" | 139 lbs<br>153 lbs |
| 7' HD     | 28" - 46"<br>42" - 69" | 139 lbs<br>153 lbs |

## Tie-Off Blocks



## DAILY TRENCH CHECKLIST

- Protective system in place in any trench 5 ft or deeper.
- Ladder, ramp or exit within 25 ft of every worker at 4 ft+.
- Spoil, loads and equipment kept 2 ft back from the edge.
- Competent person inspects daily and after every rain.
- Air tested before entry where hazards may collect.
- Utilities located before the first cut — call 811.

**Call Us**  
*Se Habla Español*



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