

① For object located within the traveled way where space is limited, Barrel Installation Line may be parallel to roadway centerline. In this case, Y dimension equals X dimension.

Possible Contract Items:
Embankment In Place
Temporary Crash Cushion

Possible Tabulation:
108-30

EMBANKMENT DIMENSIONS					
For Object Widths:	Sand Barrel Layouts Required	W	X	Y (must not be negative)	Z
3'-6" or less	1	24'-3"	V + 5'-3"	V + 3'-3"	3.73 V + 12'-0"
3'-7" - 10'-7"	2	25'-0"	V + 12'-3"	V + 10'-0"	3.73 V + 38'-0"
10'-8" - 17'-9"	3	25'-9"	V + 19'-3"	V + 17'-0"	3.73 V + 64'-0"
17'-10" - 32'-3"	4	26'-6"	V + 26'-3"	V + 24'-0"	3.73 V + 89'-0"

STANDARD ROAD PLAN

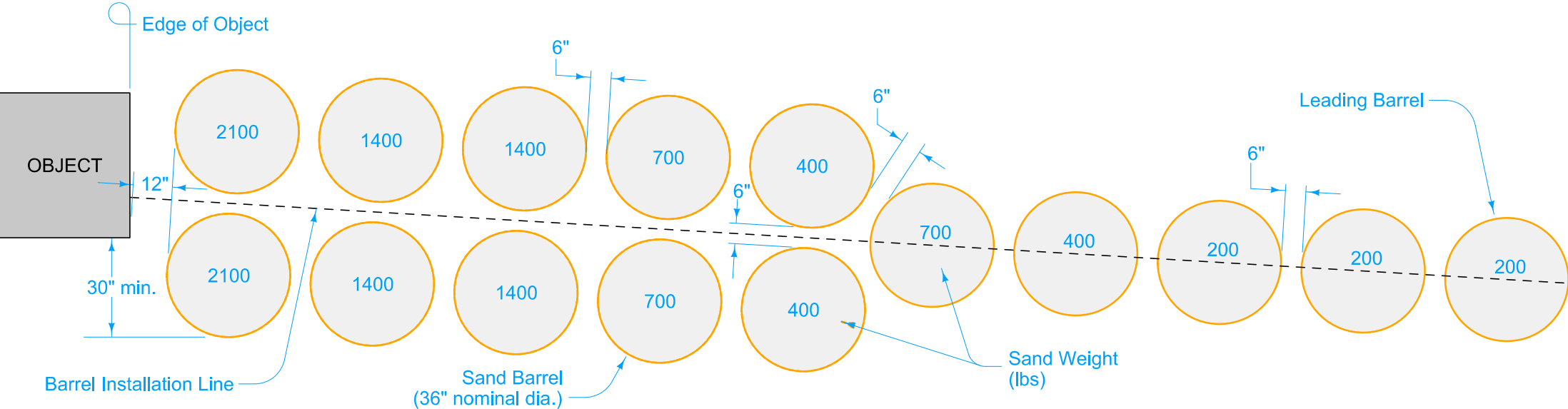
REVISIONS: Changed Obstacle to Object.

APPROVED BY DESIGN METHODS ENGINEER

TEMPORARY CRASH CUSHIONS
SAND BARREL

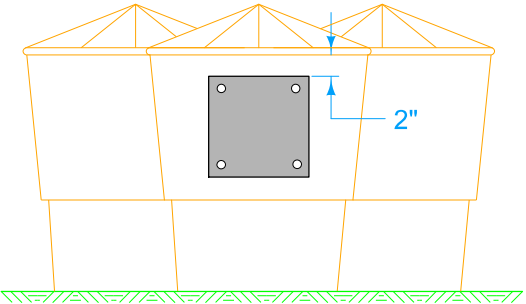
REVISION	
2	04-20-21
BA-500	
SHEET 1 of 2	

SAND BARREL LAYOUT

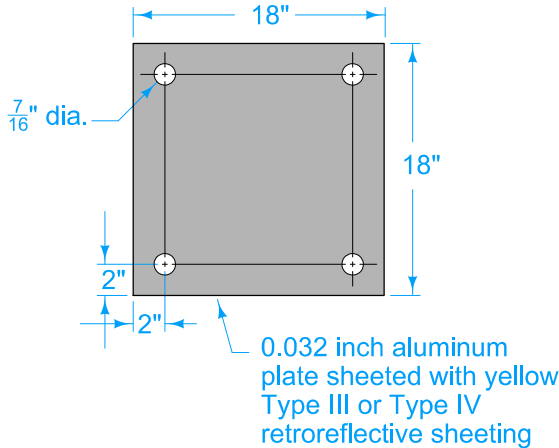


SAND BARREL DELINEATION

Mount marker plate on the leading barrel, centered on the barrel installation line.



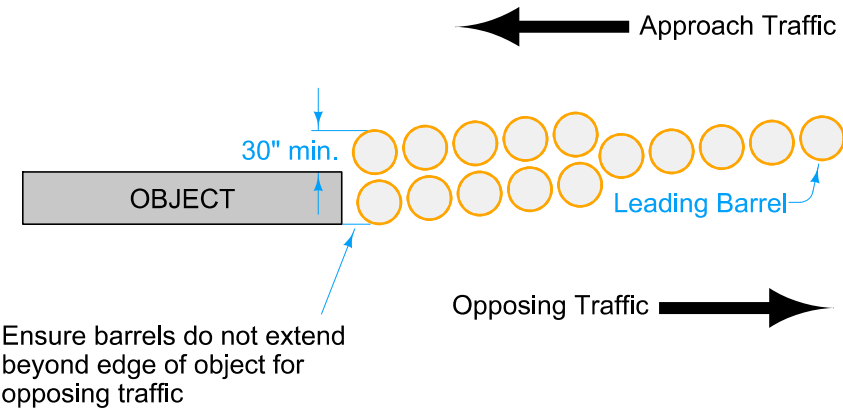
MARKER PLATE



Mount plate using four $\frac{3}{8}$ " bolts, nuts, and washers meeting the requirements of Article 4186.09 for Type A signs.

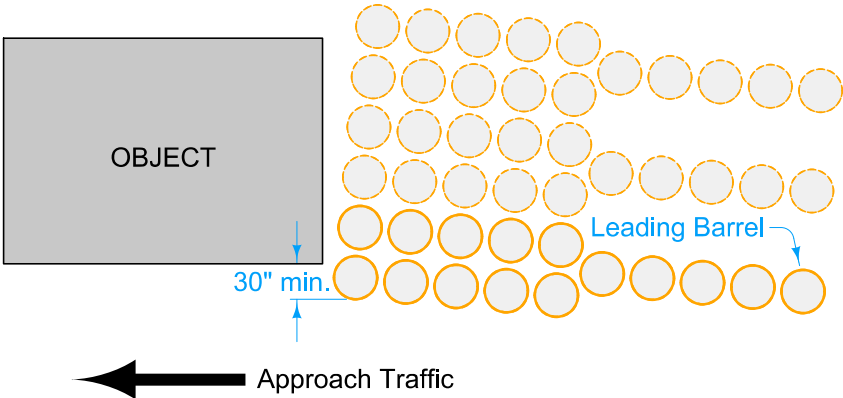
Self-adhesive sheeting meeting the above requirements may be substituted for the marker plate.

PROTECTING OBJECT BETWEEN OPPOSING TRAFFIC



PROTECTING WIDE OBJECT

For wide object, repeat sand barrel layout as needed
An installation consisting of multiple sand barrel layouts, similar to the one shown, will be measured as a single crash cushion.
All barrels separated by 6 inches.



IOWA DOT
STANDARD ROAD PLAN

REVISIONS: Changed Obstacle to Object.

Shant Miller
APPROVED BY DESIGN METHODS ENGINEER

TEMPORARY CRASH CUSHIONS
SAND BARREL

REVISION
2 04-20-21
BA-500
SHEET 2 of 2