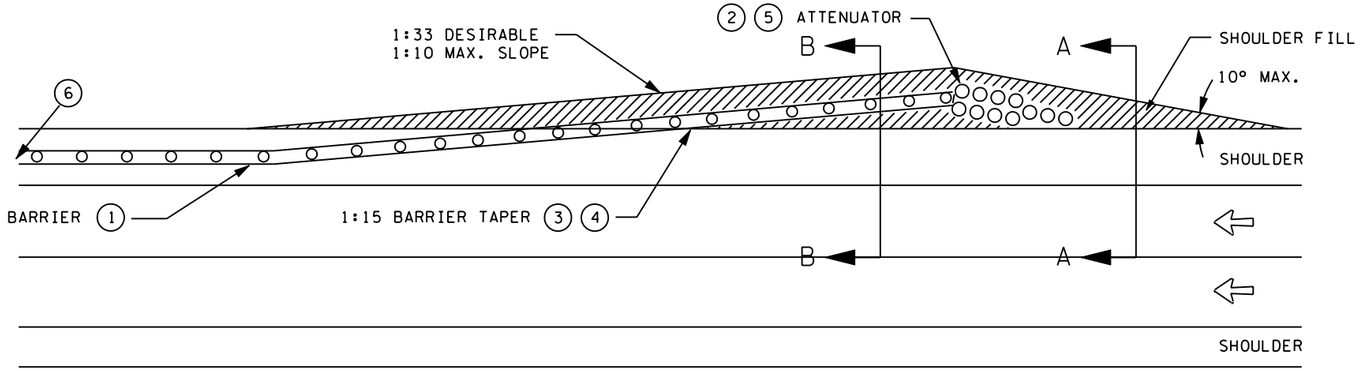
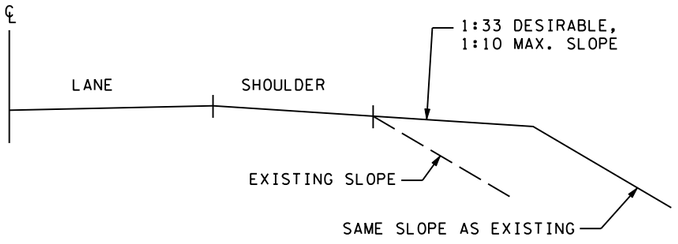
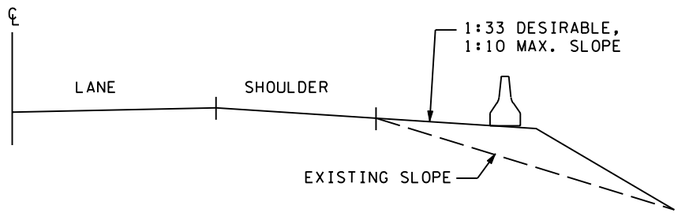




SECTION A-A



SECTION B-B

(1) IT IS DESIRABLE TO MAINTAIN FULL SHOULDER WIDTH WHENEVER POSSIBLE. IF NOT POSSIBLE, MINIMUM DESIRABLE LATERAL OFFSETS ARE BASED ON THE FOLLOWING POSTED SPEEDS:
70 MPH - 12.0 FEET
60 MPH - 8.0 FEET
50 MPH - 6.5 FEET
40 MPH - 5.0 FEET
FOR RESTRICTED CONDITIONS, LESSER OFFSETS MAY BE USED. THE OFFSETS SHOULD BE A MINIMUM OF 2 FEET UNLESS THE CONDITIONS ARE EXTREME. LATERAL OFFSETS ARE MEASURED TO THE BOTTOM OF THE BARRIER. BARRIER OFFSET FROM EDGE OF THRU LANE SHOULD NOT EXCEED 15 FEET.

(2) DESIRABLE TREATMENTS FOR EXPOSED BARRIER ENDS ARE; A CONNECTION TO EXISTING BARRIER; IMPACT ATTENUATOR; TAPER AWAY TO THE EDGE OF THE CLEAR ZONE; AND EXTENDING THROUGH A PLATE BEAM GUARDRAIL BY REMOVING A PANEL.

(3) A 1:10 TAPER MAY BE USED WHEN POSTED SPEED LIMIT IS 35 MPH OR LESS.

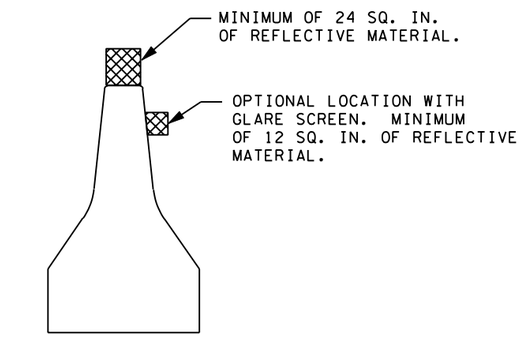
(4) IF THE BARRIER IS TO BE EXTENDED BEYOND THE SHOULDER, ADDITIONAL FILL WILL BE NEEDED IN ORDER TO PROVIDE A FLAT (1:33) APPROACH AREA TO THE BARRIER. FILL WILL BE INCIDENTAL TO BARRIER AND/OR IMPACT ATTENUATOR.

(5) THE IMPACT ATTENUATOR SHOULD BE OFFSET A MINIMUM OF 2 FT. FROM THE EDGE OF THE THRU LANE (SEE SAND BARREL OFFSET DETAIL). THE IMPACT ATTENUATOR SHOULD BE ORIENTED TO ACCOMMODATE THE PROBABLE IMPACT ANGLE OF AN ENCROACHING VEHICLE. FOR MOST ROADSIDE CONDITIONS, AN ANGLE APPROXIMATELY 10 DEGREES, AS MEASURED BETWEEN THE HIGHWAY AND THE IMPACT ATTENUATOR LONGITUDINAL CENTERLINE, IS CONSIDERED APPROPRIATE.

(6) FOR TWO LANE, TWO WAY TRAFFIC BOTH ENDS OF THE BARRIER SHOULD BE TREATED IN THE SAME MANNER AS DESCRIBED IN (2).

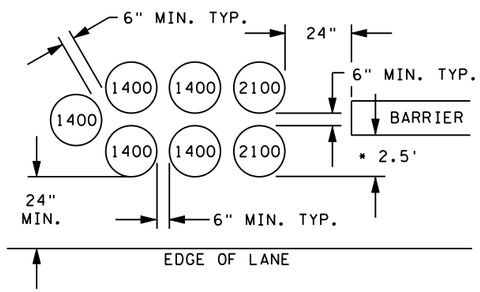
NOTE:
AT THE DIRECTION OF THE ENGINEER, OTHER APPROVED IMPACT ATTENUATORS CAN BE SUBSTITUTED IN LIEU OF THE SAND BARRELS ESPECIALLY WHERE REDIRECTION IS DESIRED OR AT WIDTH RESTRICTED AREAS.

SEE LAYOUT 19A FOR BARREL ARRAY SET UP.

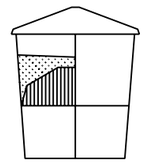


DELINEATOR @ 30' SPACING

SAND FILLED BARREL OFFSET

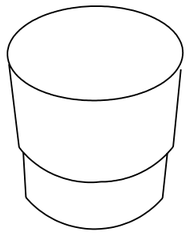


NOTE:
* DISTANCE MAY BE REDUCED TO MINIMUM OF 15 IN. THIS IS ACCEPTABLE ONLY WHERE A GREATER OFFSET WOULD CAUSE UNACCEPTABLE INTERFERENCE WITH TRAFFIC.

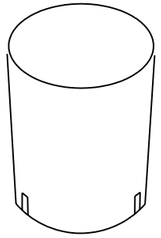


SEE MANUFACTURER INFORMATION FOR PROPER PROCEDURE TO FILL BARRELS WITH SAND.

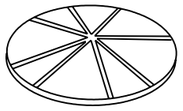
PORTABLE CONCRETE BARRIER PLACEMENT AND END TREATMENT



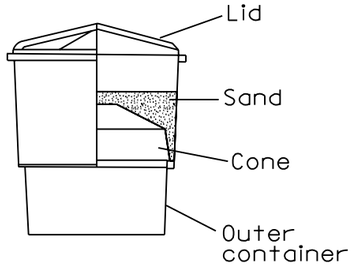
Model 640

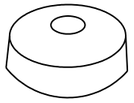


Model 960

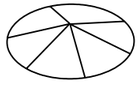


Lid





Model 90/180 cone



Model 320 cone

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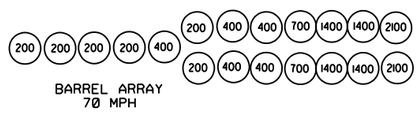
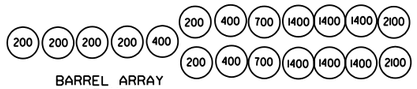
NOMINAL MASS		OUTER CONTAINER MODEL	CONE MODEL	LID	FILL HEIGHT FROM TOP (INCHES)
kg	lbs				
90	200	640	90/180	X	8.5
180	400	640	90/180	X	5
320	700	640	320	X	4
640	1400	640	–	X	3
960	2100	960	–	X	0

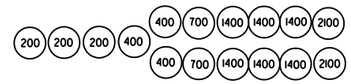
ENERGITE III



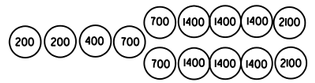
BARREL ARRAY
70 MPH



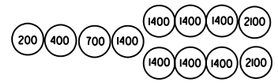
BARREL ARRAY
65 MPH



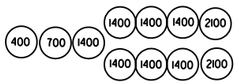
BARREL ARRAY
60 MPH



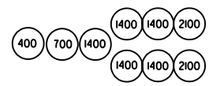
BARREL ARRAY
55 MPH



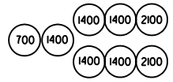
BARREL ARRAY
50 MPH



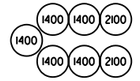
BARREL ARRAY
45 MPH



BARREL ARRAY
40 MPH



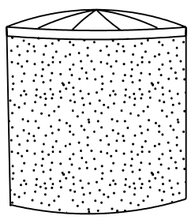
BARREL ARRAY
35 MPH



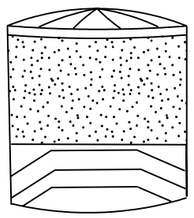
BARREL ARRAY
30 MPH

NOTE:
NUMBERS INDICATE STANDARD MODULE WEIGHTS IN POUNDS.
SEE MANUFACTURE FOR CURRENT STANDARDS.

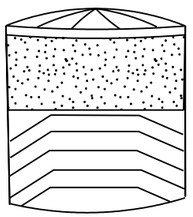
ENERGITE III



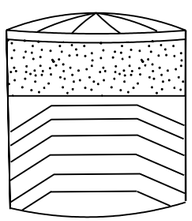
2100 L.B.



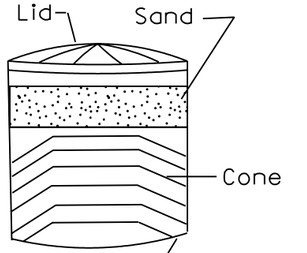
1400 L.B.



700 L..B.



400 L.B.



200 L.B.

BARREL WEIGHTS

NOTE:
CONES ARE INDIVIDUAL AND STACK TO HEIGHT REQUIRED BY MANUFACTURE FOR WEIGHT REQUIREMENTS (DRAWING DOES NOT REPRESENT CONE QUANTITIES)

NOMINAL MASS		FILL HEIGHT FROM TOP (INCHES)
kg	lbs	
90	200	12
180	400	8.5
320	700	6
640	1400	TOP
960	2100	TOP

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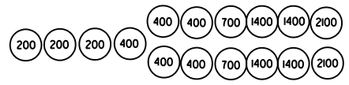
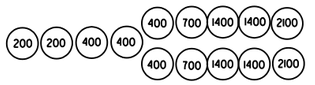
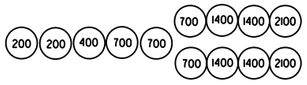
FITCH



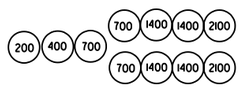
BARREL ARRAY
65 MPH



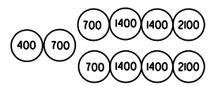
BARREL ARRAY
60 MPH



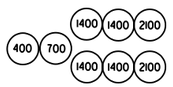
BARREL ARRAY
55 MPH



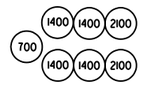
BARREL ARRAY
50 MPH



BARREL ARRAY
45 MPH



BARREL ARRAY
40 MPH

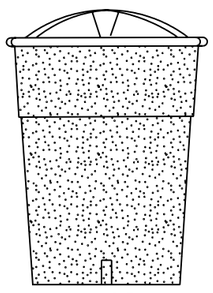


BARREL ARRAY
35 MPH

NOTE:
NUMBERS INDICATE STANDARD MODULE WEIGHTS IN POUNDS.
SEE MANUFACTURE FOR CURRENT STANDARDS.

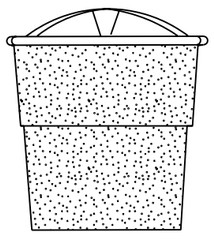
FITCH

FILL TO TOP



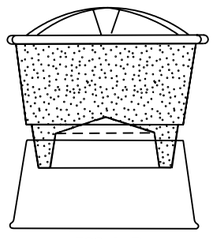
2100 L.B.

FILL 1" FROM TOP



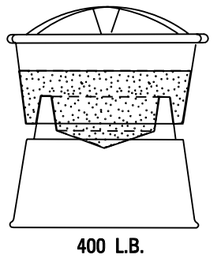
1400 L.B.

FILL 1" FROM TOP



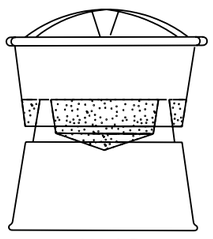
700 L..B.

FILL 6" FROM TOP



400 L.B.

FILL 11" FROM TOP

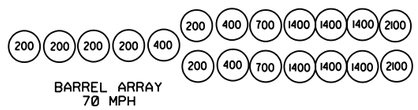


200 L.B.

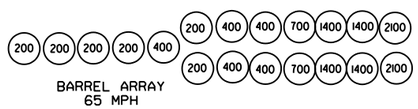
BARREL WEIGHTS
TrafFIX Devices, inc.

www.traffixdevices.com

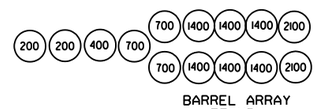
TRAFFIX



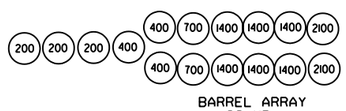
BARREL ARRAY
70 MPH



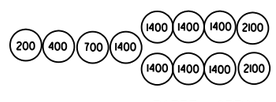
BARREL ARRAY
65 MPH



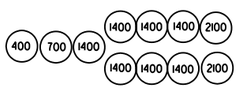
BARREL ARRAY
55 MPH



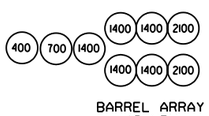
BARREL ARRAY
60 MPH



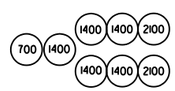
BARREL ARRAY
50 MPH



BARREL ARRAY
45 MPH



BARREL ARRAY
40 MPH



BARREL ARRAY
35 MPH

BARREL ARRAY
30 MPH

NOTE:
NUMBERS INDICATE STANDARD MODULE WEIGHTS IN POUNDS.
SEE MANUFACTURE FOR CURRENT STANDARDS.

TRAFFIX