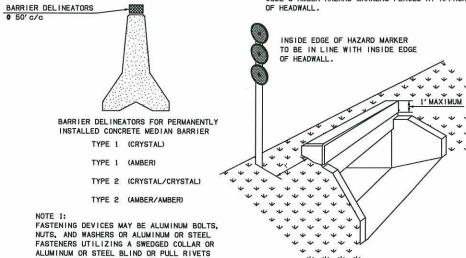
BARRIER DELINEATOR SHALL BE PLACED AT 50' 0/0 (MAX). DELINEATOR SHALL HAVE 6" (MIN.) REFLECTIVE AREA. SEE THE 2009 STANDARD SPECIFICATIONS FOR DETAILS. DELINEATOR TO BE INSTALLED AS RECOMMENDED BY THE MANUFACTURER.

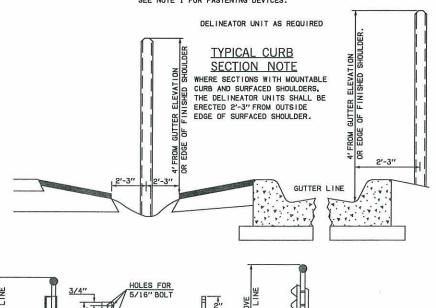
ALL DELINEATION WILL BE EITHER JD-2/JD-1 MANUFACTURED BY VEGA CORPORATION OR ASTRO OPTICS OR APPROVED

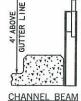
OF THE SELF PLUGGING TYPE (PULL PIN. CLIPPED FLUSH, REMAINS IN RIVET WHEN FINISHED). ALL NUTS SHALL BE SELF LOCKING.

WHEN HEADWALL IS 2'-3" OR LESS FROM EDGE OF SHOULDER, USE MONODIRECTIONAL CODE 3 AMBER HAZARD MARKER FOR ONE-WAY ROADWAY (NON-EXPRESSWAY) AND FOR TWO-WAY ROADWAY. USE BI-DIRECTIONAL CODE 3 AMBER HAZARD MARKERS PLACED AT APPROACH END OF HEADWALL.



WHEN BOLTS AND NUTS ARE USED FOR DELINEATOR ASSEMBLIES. THE BOLT ENDS ARE TO BE SUFFICIENTLY DEFORMED TO RESIST VANDALISM. SEE NOTE 1 FOR FASTENING DEVICES.





CHANNEL BEAM HANDRAIL "H" BEAM POST

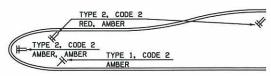
SECTION "A-A" GALVANIZED STEEL ANGLES 5/16" MINIMUM THICKNESS

CHANNEL BEAM

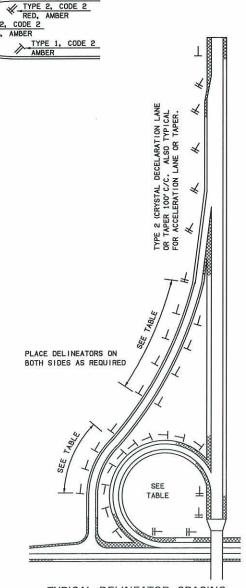
GUARD RAIL

WEIGHT PER M= 2.75 lbs/ft. "H" BEAM POST

FOR ATTACHING DELINEATOR POSTS TO GALVANIZED STEEL ANGLES, USE 5/16" X 3/4" GALVANIZED STEEL BOLTS. FOR ATTACHING DELINEATORS POST OR GALVANIZED STEEL ANGLES TO ALUMINUM OR "H" BEAM HANDRAIL POST, USE 5/16" X 1" GALVANIZED STEEL BOLTS. FOR ATTACHING GALVANIZED STEEL ANGLES TO CONCRETE POSTS, USE TWO 5/16" X 2" GALVANIZED STEEL EXPANSION SLEEVES AND WASHERS FOR EACH BOLT. TYPE 2 DELINEATORS SHALL BE THE SAME AS SHOWN ABOVE EXCEPT THAT REFLECTORS ARE MOUNTED ON BOTH SIDES OF THE POST. COLOR OF THE REFLECTORS SHALL BE IN CONFORMANCE WITH THE MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES, LATEST REVISION.



TYPICAL DELINEATOR PLACEMENT AT MEDIAN OPENINGS



TYPICAL DELINEATOR SPACING FOR INTERCHANGE RAMPS

DELINEATORS SHALL NORMALLY BE PLACED ON THE RIGHT SIDE OF RAMPS EXCEPT WHEN REQUIRED OUTSIDE OF CURVE.

WHEN RADIUS ON RAMP CURVES IS LESS THAN 2500', DELINEATORS SHALL BE PLACED ON OUTSIDE OF CURVE AND SPACED AS SHOWN ON TABLE FOR "SPACING ON CURVES", OR OMIT DELINEATORS WHEN WI-8 CHEVRON SIGNS

MAXIMUM SPACING OF DELINEATORS ON RAMPS SHALL BE 100'.

RADIUS IN FEET UP TO	SPACING ON	SPACING IN ADVANCE AND BEYOND CURVES		
AND	CURVE			
INCLUDING	CONTRACTOR OF THE PARTY OF THE	FIRST	SECOND	THIRD
2500'	100'	200'	200'	200'
1000'	90'	150'	200'	200'
900'	85'	150'	200'	200'
800'	80'	150'	200'	200'
700'	75'	100'	200'	200'
600'	70'	100'	150'	200'
500'	65'	75'	125'	200'
400'	55'	50'	100'	200'
300'	50'	50'	100'	175'
250'	40'	50'	100'	150'
200'	35'	30'	50'	125'
150'	30'	20'	50'	90'
50'	20'	20'	50'	90'

DATE DESCRIPTION

ELIMINATE NORMAL DELINEATOR WHEN CODE 3 IS WITHIN 1/4 SPACING DISTANCE

ON ONE-WAY ROADWAY (NON-FREEWAYS), CONSTRUCT MONO-DIRECTIONAL TYPE 1. CODE 1 DELINEATORS ON OUTSIDE OF CUIRVES HAVING A RADIUS OF 2500' OR LESS.

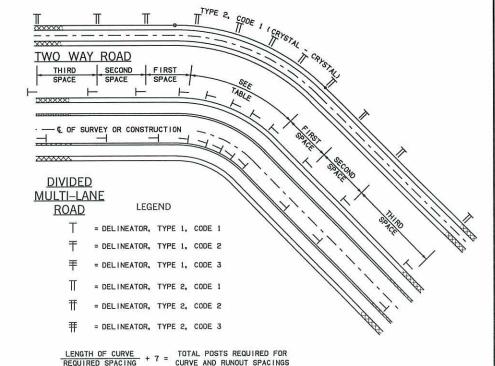
ON TWO-WAY ROADWAYS. CONSTRUCT BI-DIRECTIONAL TYPE 2. CODE 1 DELINEATORS ON OUTSIDE OF CURVES HAVING A RADIUS OF 2500' OR LESS.

ON FREEWAYS, CONSTRUCT MONO-DIRECTIONAL TYPE 1, CODE 1 DELINEATORS ON RIGHT SIDE OF ROADWAYS AT 528' SPACING ON THROUGH LANE.

EXCEPT ON FREEWAYS, DELINEATOR SPACING ON THRU LANE CURVES SHALL BE BASED ON CENTERLINE OF SURVEY OR CONSTRUCTION BASE LINE. PLACEMENT SHALL BE EVENLY SPACED AS REQUIRED IN TABLE.

MATERIALS SPECIFICATIONS

THE WEIGHT OF EACH POST BEFORE GALVANIZING & PUNCHING SHALL BE 1.12 lbs/ft. THE WEIGHT TOLERANCE SHALL BE ±3-1/2%.



BASIS OF PAYMENT ITEM UNIT ITEM DELINEATORS EA 853

APPROVED BY

TRAFFIC STANDARD

STANDARD DELINEATOR UNITS

2009 SPECIFICATIONS

DU1-1

Mars DATE 8/5/10

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