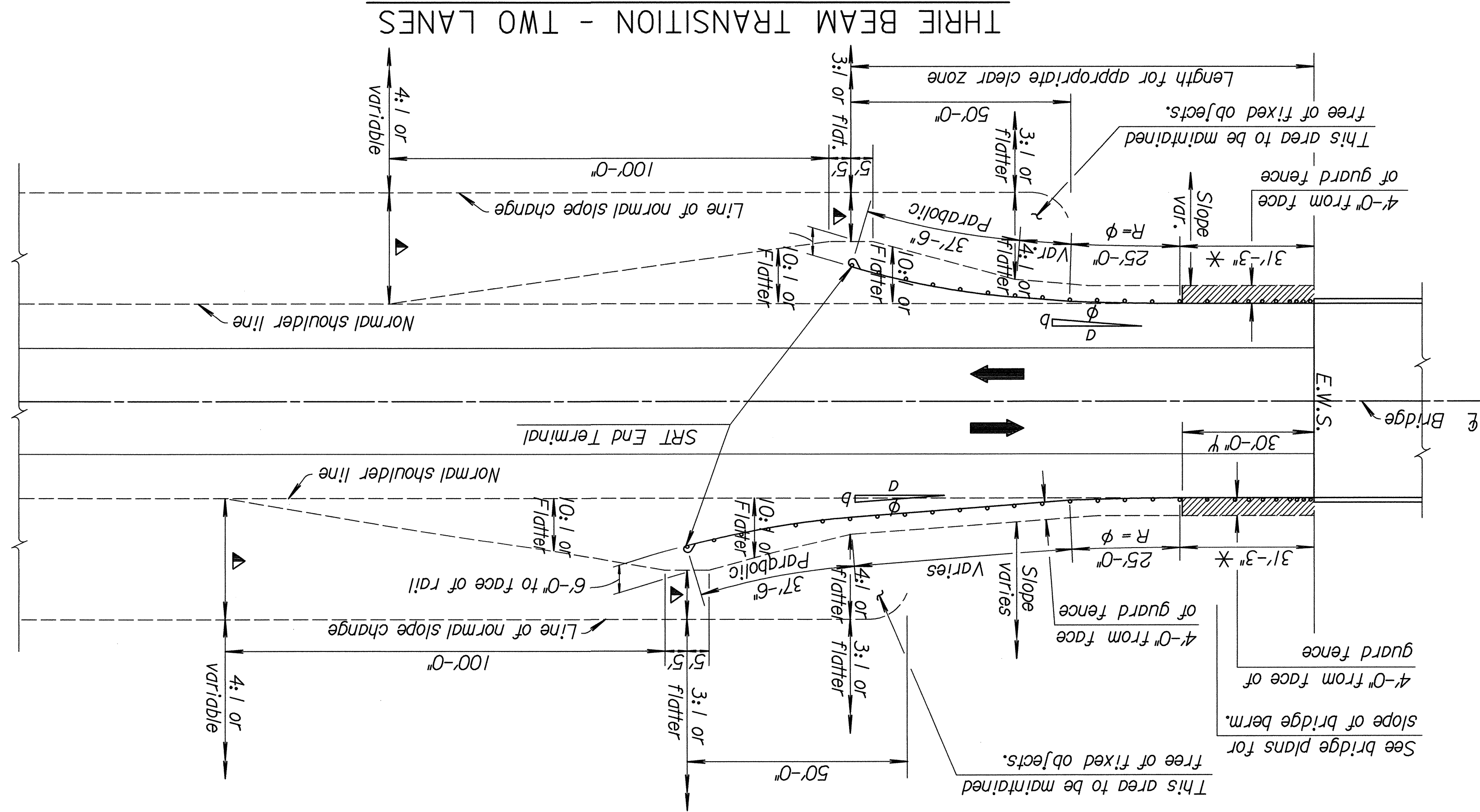
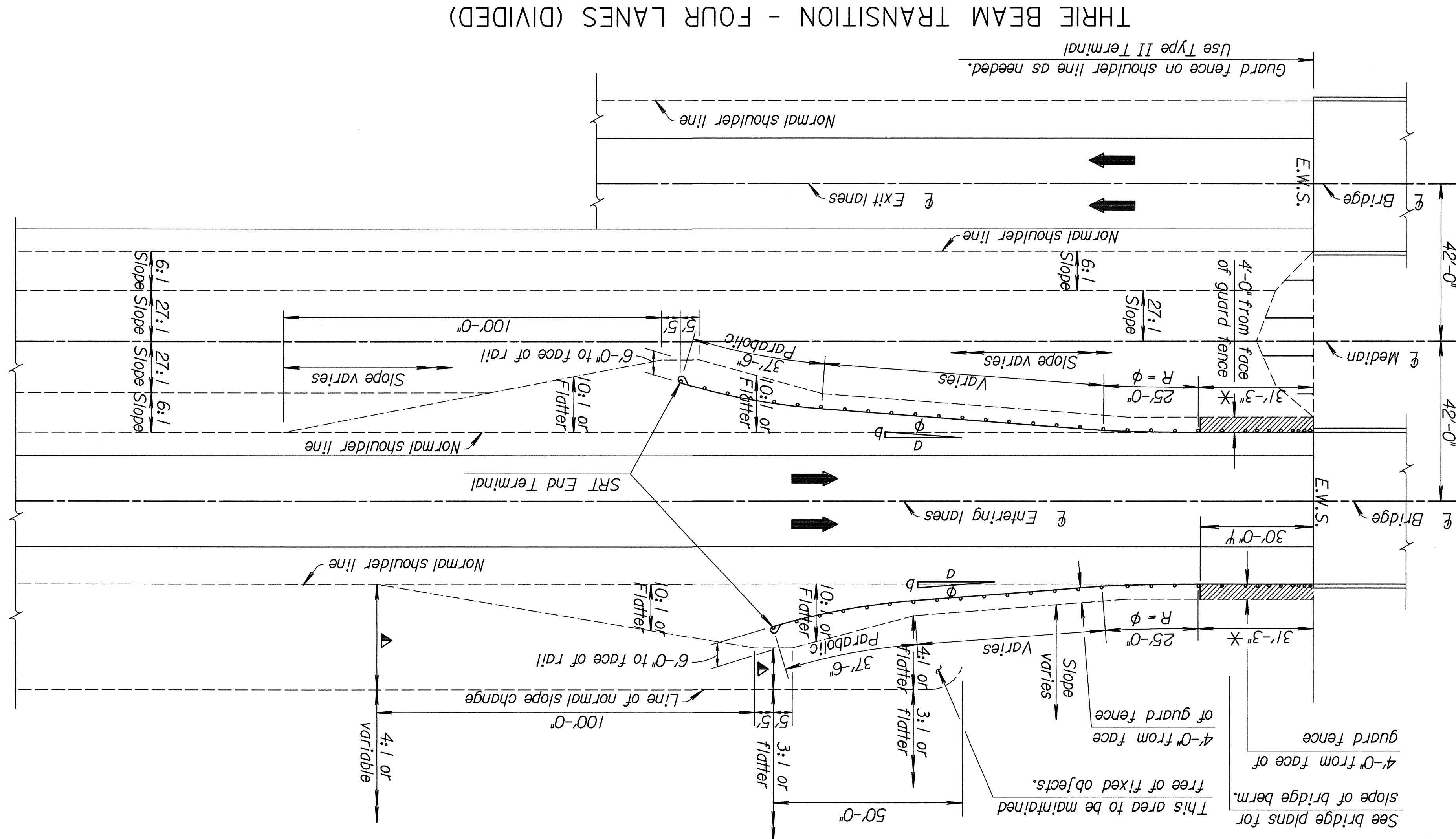
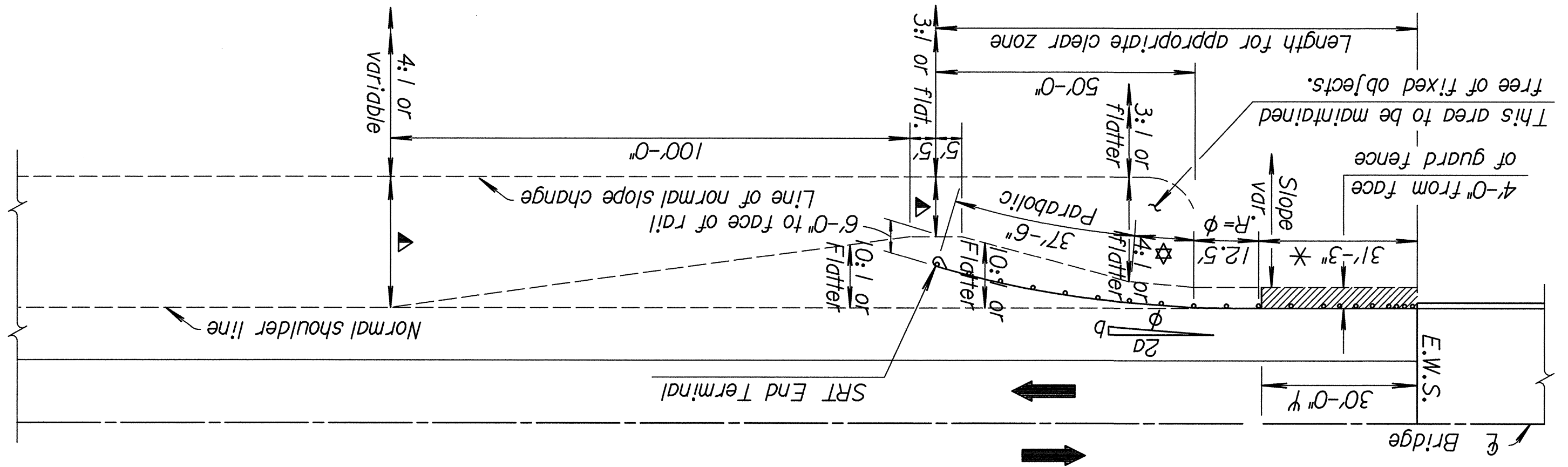


Note to Designer: Guard fence length of need shall be determined in accordance with the AASHTO Roadside Design Guide using $L_1 = 43.75'$ for flare rate of ab and $L_2 = 37.5'$ for flare rate of $2ab$. This sheet shall be used when the flared guard fence design with Sloped Rail Terminal is selected. Material for bituminous widening shall be included in the quantities as either Plant Mix Bituminous Mixture (Commercial Grade) or the mix used in the shoulder surfacing.



ALTERNATE TREATMENT - TWO LANES
Flare Rate = 2a:b



Note: Flare Rate of 2ab shall be used when guard fence is located inside the shy line. Length of curved portion of guard fence shall be 12.5 feet for flare rate of 2ab.

Design Parameters			
Design Speed (mph)	Flare Rate (gab)	Radius	Radius
40	9	225.92	17
50	11	275.76	21
60	13	325.64	26
70	15	375.55	30
80	17	425.46	35
90	19	475.37	40
100	21	525.28	45

- ☆ Tangent length on flare is a or $12.5'$ depending on calculated length of need.
- * Three Beam Transition. See Std. Drawing RD613 for details and general note.
- φ See Design Parameters table this sheet for radius and flare rate.
- ▲ Normal project side slope. See typical sections.
- ◇ See Std. Drawing RD621 for SRT details.
- ∇ Bituminous material placed on 4'-0" embankment widening unless flume inlet and slope drain is constructed.

NO.	DATE	REVISIONS	BY	APP'D
3	10-24-00	Revised Bituminous widening length	R.J.S. J.O.B.	
2	8-8-00	Added Bituminous widening	R.J.S. J.O.B.	
1	7-12-00	Revised tangent length on exit.	R.J.S. J.O.B.	

KANSAS DEPARTMENT OF TRANSPORTATION
RD612A

DESIGNED	QUANTITIES	DETAIL CK.	DESIGN CK.
TRACED	TRACE CK.	R.J.S.	B.M.B.
APP'D.	APP'D.	DATE	BY
James O Brewer	James O Brewer	12-11-00	

THREE BEAM TRANSITION - FOUR LANES (DIVIDED)