

LOW SPEED TABLE
LESS THAN 45 MPH (POSTED SPEED)

LOCATION	ELEVATION DIFFERENCE	DROP-OFF MITIGATION
LANE LINE, CENTER LINE, EDGE LINE	2" UP TO 3"	VERTICAL EDGE ALLOWED. DELINEATION REQUIRED.
	TRENCHES OVER 3"	USE STEEL PLATES TO COVER OPENINGS OR LOGITUDINAL TRENCHES AS DROP-OFFS USING WEDGES WITH APPROXIMATE 3:1 SLOPE OR FLATTER.
	PROTRUSIONS (I.E., UTILITY COVER OR HANDHOLE, UP TO 4" MAX.)	PROVIDE WEDGE AROUND THE PROTRUSION WITH APPROXIMATE 12:1 SLOPE OR FLATTER IN DIRECTION OF TRAFFIC AND APPROXIMATE 6:1 FLATTER TRANSVERSELY. CLOSE LANES TO TRAFFIC WHEN OVER 4"
LANE LINES OR CENTERLINES	3" - 4.5" MAX.	USE WEDGE WITH APPROXIMATE 1:1 SLOPE OR FLATTER.
	MORE THAN 4.5"	USE WEDGE WITH APPROXIMATE 3:1 SLOPE OR FLATTER.
SHOULDER DROP-OFF	MORE THAN 20"	PROVIDE MINIMUM 3' WIDE BUFFER AND USE WEDGE WITH APPROXIMATE 3:1 SLOPE OR FLATTER FOR OVERNIGHT EXPOSURE OR PROVIDE BARRIER SEPARATION.
	MORE THAN 36"	PROVIDE MINIMUM 10' WIDE BUFFER AND USE WEDGE WITH APPROXIMATE 3:1 SLOPE OR FLATTER FOR OVERNIGHT EXPOSURE OR PROVIDE BARRIER SEPARATION.

CLEAR ZONE WIDTHS TABLE
FOR PAVEMENT EDGE/SHOULDER DROP-OFF
IN CONSTRUCTION ZONES

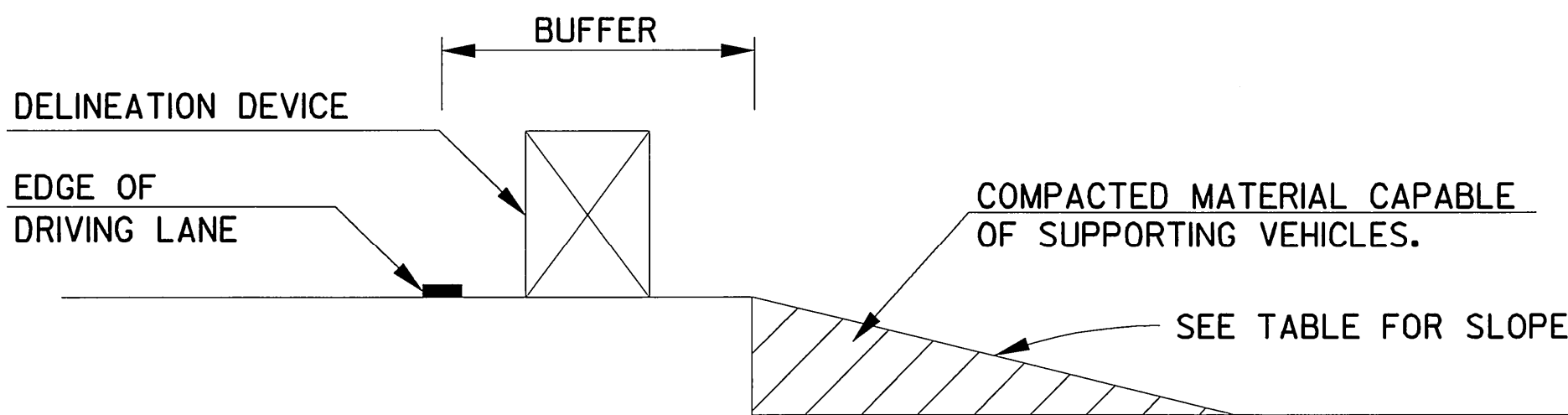
SPEED (MPH)	WIDTHS* (FT)
(60-70)	(30)
(55)	(23)
(45-50)	(16)
(30-40)	(13)

* MINIMUM DISTANCE FROM THE EDGE OF DRIVING LANE TO A DROP-OFF CONDITION

HIGH SPEED TABLE
EQUAL TO OR MORE THAN 45 MPH (POSTED SPEED)

LOCATION	ELEVATION DIFFERENCE	DROP-OFF MITIGATION
LANE LINE, CENTER LINE, EDGE LINE	2" UP TO 3"	VERTICAL EDGE ALLOWED. DELINEATION REQUIRED.
	TRENCHES OVER 2"	USE STEEL PLATES TO COVER OPENINGS OR LOGITUDINAL TRENCHES AS DROP-OFFS USING WEDGES WITH APPROXIMATE 3:1 SLOPE OR FLATTER.
CENTERLINE	3" - 4.5"	USE WEDGE WITH APPROXIMATE 3:1 SLOPE OR FLATTER.
	MORE THAN 4.5"	USE BARRIER SEPERATION.
LANE LINE OR AT EDGE LINE	3" - 4.5" MAX.	DAYLIGHT (NO NIGHTTIME EXPOSURE) USE WEDGE WITH APPROXIMATE 1:1 OR FLATTER SLOPE. NIGHTTIME USE WITH APPROXIMATE 3:1 OR FLATTER SLOPE.
	MORE THAN 4.5"	USE WEDGE WITH APPROXIMATE 4:1 SLOPE OR FLATTER.
SHOULDER DROP-OFF	3" - 8" MAX.	USE WEDGE WITH APPROXIMATE 3:1 SLOPE OR FLATTER.
	8" - 20"	PROVIDE MINIMUM 3' WIDE BUFFER AND USE WEDGE WITH APPROXIMATE 3:1 SLOPE OR FLATTER FOR OVERNIGHT EXPOSURE OR PROVIDE BARRIER SEPARATION.
	MORE THAN 20"	PROVIDE MINIMUM 10' WIDE BUFFER AND USE WEDGE WITH APPROXIMATE 3:1 SLOPE OR FLATTER FOR OVERNIGHT EXPOSURE OR PROVIDE BARRIER SEPARATION.

A. SHOULDER DROP-OFF TREATMENTS



1. THE CONTRACTOR MAY USE BARRIER IN LIEU OF DROP-OFF TREATMENT. WARNING DEVICES ARE REQUIRED.
2. DAILY INSPECTIONS SHALL BE CONDUCTED BY THE CONTRACTOR TO ASSURE THAT NO EROSION, EXCESSIVE SLOPES, RUTTING OR OTHER CONDITIONS EXIST. ANY DEFICIENCIES SHALL BE CORRECTED IMMEDIATELY.
3. COMPENSATION FOR THE PLACEMENT, MAINTENANCE AND REMOVAL OF COMPACTED MATERIAL REQUIRED FOR SHOULDER DROP-OFF TREATMENT SHALL BE INCLUDED IN OTHER ITEMS OF WORK.
4. IF PRACTICAL THE EXISTING VERTICAL EDGE DROP-OFF CAN BE COLD MILLED TO PROVIDE AN ACCEPTABLE SLOPE.
5. IF BUFFER DISTANCE IS LESS THAN 3 FEET, THE USE OF A POSITIVE BARRIER MAY NOT BE FEASIBLE. IN SUCH A CASE CONSIDER EITHER:
(1) NARROWING THE LANES A DESIRED 11 TO 12 FEET OR 10 FOOT MINIMUM.
(2) PROVIDE AN EDGE SLOPE INDICATED IN THE LOW OR HIGH SPEED TABLES.

GENERAL NOTES

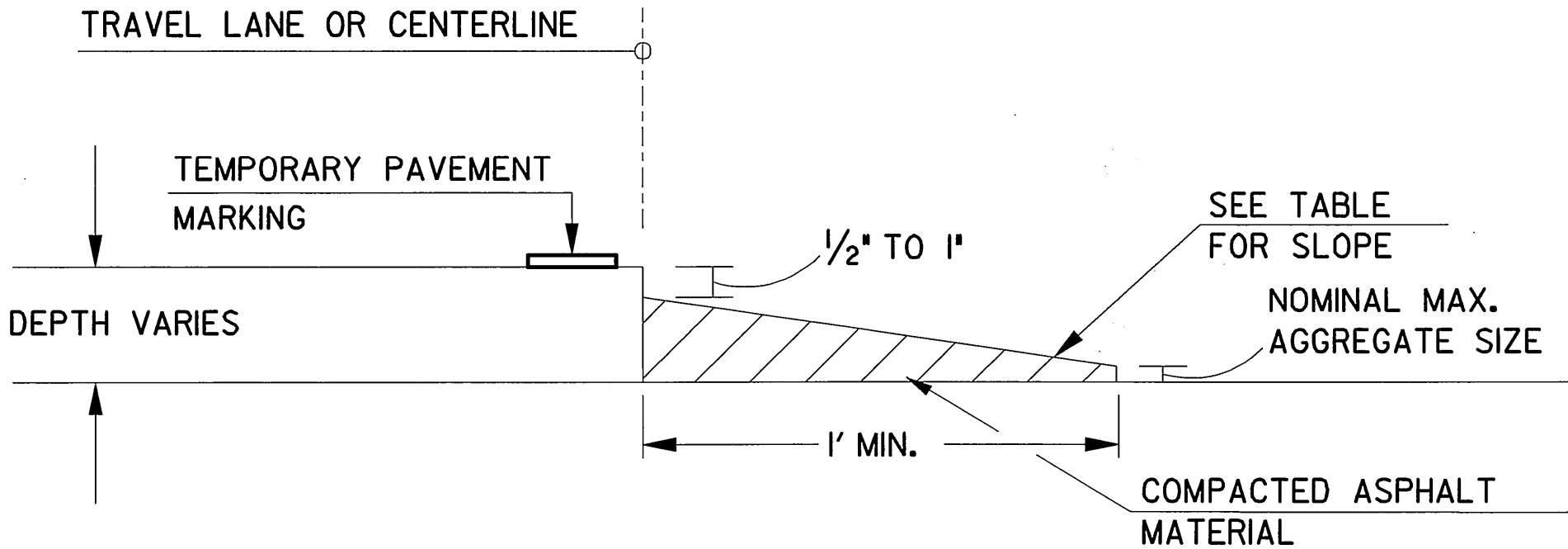
DROP-OFF CONDITION

1. DROP-OFF IS DEFINED AS A DIFFERENCE IN ELEVATION, PARALLEL TO ADJACENT TRAVEL LANES OR SHOULDER. ANY DROP-OFFS EQUAL TO OR EXCEEDING 2' ELEVATION DIFFERENCE CREATED DURING CONSTRUCTION, AND FALL WITHIN THE LIMITS OF THE CLEAR ZONE WIDTH TABLE, WILL REQUIRE APPLICATION OF MEASURES IN THE LOW OR HIGH SPEED TABLES.
2. ANY DROP-OFF CONDITION THAT IS CREATED AND ELIMINATED WITHIN THE NORMAL WORK DAY WILL NOT BE SUBJECT TO THE USE OF A DROP-OFF TREATMENT. HOWEVER, DELINEATORS AND WARNING DEVICES WILL BE REQUIRED IN ACCORDANCE WITH THE M.U.T.C.D. AND APPLICABLE ODOT STANDARDS.
3. DISTANCE FROM THE TRAVEL LANE TO THE BARRIER OR WARNING DEVICE SHOULD BE THE MAXIMUM PRACTICAL FOR PROJECT CONDITIONS.

DROP-OFF NOTES

1. THESE CONDITIONS AND TREATMENTS SHALL BE APPLIED ONLY IN WORK AREAS THAT FALL WITHIN A DESIGNATED WORK ZONE.
2. THE FOLLOWING ARE DEFINED AS ACCEPTABLE DELINEATION DEVICES:
 - A. VERTICAL PANEL
 - B. TYPE 1 OR TYPE 2 BARRICADES
 - C. DRUM
 - D. CONE (WHERE ALLOWED)
 - E. TUBULAR MARKER (WHERE ALLOWED)
 - F. IMPACT RECOVERY SYSTEM DEVICE
 - G. TEMPORARY FLEX TABS.
3. WHERE A BARRIER IS SPECIFIED, ANY OF THE TYPES BELOW MAY BE USED AS SHOWN IN THE PLANS:
 - A. TEMPORARY CONCRETE BARRIER WALL
 - B. TEMPORARY GUARDRAIL AND ANCHORAGES
 - C. TEMPORARY BARRIER CURB
 - D. TEMPORARY WATER FILLED BARRIERS

B. TRAVEL LANE DROP-OFF TREATMENT FOR MILLING OR RESURFACING



1. THIS TREATMENT APPLIES TO MILLING OR RESURFACING BETWEEN ADJACENT TRAVEL LANES.
2. WHENEVER THERE IS A DIFFERENCE BETWEEN ADJACENT TRAVEL LANES, THE W8-9A SIGN IS REQUIRED AT APPROPRIATE INTERVALS.

APPROVED BY TRAFFIC ENGINEER *David Smart*

DATE 2/10/06

OKLAHOMA DEPT. OF TRANSPORTATION
TRAFFIC STANDARD (ENGLISH)

PAVEMENT EDGE / SHOULDER DROP-OFF

1999 SPECIFICATIONS

TCS29-1

01E

T-529E