ROUTE CLASSIFICATION										
For use of this form, see ATP 3-34.81/MCWP 3-17.4; the proponent agency is TRADUC.										
1. SERIAL NUMBER					2. TO	2. TO				
3. FOR II	NFOR	MATION			4. DAT	4. DATE/TIME GROUP				
5. NUMB	BER O	F SHEETS OR I	ENCLOSURES		6. REC	6. RECONNAISSANCE OFFICER/NCO				
7. UNIT					8. FOR	8. FORMATION				
9. SIGNA	ATURE	Ξ			I					
10. UNIT	'S USI	ED IN THE FOR	M (Please check)							
CENT	IMETE		IES 🗌 FEET	MILES	METERS	KILOMETERS		DE 🗌 F	AHRENHEIT	
11. MAP	S									
12. COU	INTRY				13. NA	ME				
14. EDIT	ION				15. SH	EET NUMBER				
16. SERI	IAL				17. SC	ALE				
				S	ECTION II					
1. ROUTI	E CLA	SSIFICATION (See Section VII, Bl	lock 7.1.)			2. LIMITED	BY SEC	TIONS	
1	/	2	/ 3 4	(5 Si) (5 ECTION III) () 5				
1. ROAD (See Se	CLAS	SSIFICATION /II, Block 7.2.)	2. WEATH	IER (Include last ra	ainfall, if known,	plus the temperature)	3. GRID REF	ERENCE	- START	
4. ROAD)		·							
:	SECT	ION A	5. PREFIX	6. LIMITED FACTORS	7. WIDTH	8. CONSTRUCTION	9. LENGTH	10. OB	STRUCTIONS	
11. START G	GRID	12. FORMULA								
-		13. SHOULDERS								
	SECT	ION B		1	1	1	r	-		
11. START G	GRID	12. FORMULA								
		13. SHOULDERS								
	SECT						Г			
11. START G	J RID	12. FORMULA								
	0F0T	13. SHOULDERS								
44. OTADT (SECT									
11. START G	JRID									
13. SHOULDERS										
2 MAP(S)			7		ASSESSMENT	(S)				
3 DETAILED SKETCH(ES)				8	PHOTOGRAPH(S)					
4 CALCULATION(S)				9	OTHER (Describe)					
5 WORK ESTIMATE(S)				10	OTHER (Describe):					
					10					

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REPLACES DA FORM 1247, WHICH IS OBSOLETE.

SECTION V									
1. OBSTRUCTIONS AND RECOMMENDATIONS FOR UPGRADES									
2. SERIAL	3. OBSTRUCTION DETAILS (Including existing MLC)	4. ROAD SECTION	5. GRID	6. RECOMMENDATION FOR UPGRADE (Including new MLC)	7. MANPOWER	8. EQUIPMENT/ VEHICLES	9. CONSTRUCTION MATERIAL	10. TIME	11. NEW MLC

a.	NAME

b. UNIT

c. DATE/TIME GROUP

d. SCALE

e. REMARKS

2. NOTES

SECTION VII						
7.1. FACTORS USED IN ROUTE CLASSIFICATION FORMULAS. For example, 3.5/X/70/3.9(OB)						
SERIAL FACTOR		SYMBOL	MEANING			
1	WIDTH	For example, 3.5 meters	The width of the narrowest part for any given section.			
		х	All-weather route - waterproof surface, never closed by weather other than snow or flooding.			
2	ROUTE TYPE	Y	Limited all-weather route - loose or light surface, sometimes reduced volumeof traffic due to bad weather.			
		Z	Fair weather route - quickly impassable in adverse weather.			
3	MLC	For example, 70	The maximum MLC of the vehicle which can use the route in convoy.			
4	OVERHEAD CLEARANCE	For example, 3.9	The minimum vertical distance between the route or road surface and any overhead obstruction. Only included if height is less than the required for the MLC.			
	OBSTRUCTION TO	(OB)	Temporary or single obstructions.			
5	TRAFFIC OTHER THAN A	(T)	Regular, recurrent and serious snow blockage.			
	BRIDGE	(W)	Regular, recurrent, and serious flooding.			
7.2. FAC	TORS USED IN ROAD CLASS	IFICATION FOR	RMULAS.			
SERIAL	FACTOR	SYMBOL	MEANING			
1	PREFIX	A	No limiting factors.			
		D				
	LIMITING FACTORS:		_			
	SHARP CURVES	с	Radius less than 25 meters and deflecting the direction more than 90. $^{\circ}$			
	STEEP GRADIENTS	g	Gradients of 7 percent or over.			
	POOR DRAINAGE	d	Inadequate or blocked drainage.			
2	WEAK FOUNDATIONS	f	Unstable, loose, or easily displaced.			
	ROUGH SURFACE	s	Likely to reduce convoy speed			
	EXCESSIVE CAMBER OR SUPER ELEVATION	j	Likely to cause heavy vehicle to skid or drag towards roadside.			
	DOUBTFUL CONDITIONS	?	Indeterminate or doubtful conditions expressed with ? and (). For example, (f?).			
	SHOULDERS	-	No symbol, but written reports should specify.			
3	WIDTH	/	Width of travelled way or total width including shoulders (when they are usable).			
	CONSTRUCTION MATERIAL:					
	TYPE X ROUTE	k	Concrete.			
		kb	Bituminous or asphaltic concrete.			
	TYPE X OR Y ROUTE	p rb	Paving brick or stone. Bitumen penetrated macadam, water-bound macadam with superficial asphalt or tar cover.			
4	TYPE Y ROUTE r I		Water-bound macadam, crushed rock or coral. Gravel or lightly metaled.			
	TYPE Y OR Z ROUTE nb		Bituminous surface treatment on natural earth, stabilized soil, sand-clay, and so forth.			
	TYPE Z ROUTE	n b v	Natural earth, stabilized soil, sand-clay, shell, cinders, and so forth. Bituminous construction. To be used alone only when type of bituminous construction cannot be determined. Various other types not mentioned above.			
5		(km)	The length of the section in kilometers may be added in brackets if desired			
		(OB)	Symbol at the end of the formula indicates existence of obstruction			
6	SNOW	NOW (T) Regular, recurrent and serious snow blockade.				
	FLOODING	(W)	Regular and sufficiently flooding which impedes traffic flow.			

7.2. FACTORS USED IN ROAD CLASSIFICATION FORMULAS. (continued)

NOTE. Consider the following as obstructions:

- · Overhead clearance less than 4.3 meters.
- · Reductions in road widths which limit traffic capacity, such as craters.
- · Gradients of 7 percent and over.
- Curves with less than a 25-meter radius and deflecting more than 90.
- · Ford and ferries.
- Example: B/c(f?)/3.2/4.8/p/(4.5km)(OB)(T)

According to the width, classify a route or road as follows:

- · Limited access. Up to 3.5 meters wide; it permits passage of isolated vehicles in one direction only.
- Single lane. From 3.5 to 5.5 meters wide; it permits use only in one direction at any one time.
- Single flow. From 5.5 to 7.5 meters wide; it permits isolated vehicles to pass or travel in the opposite direction to the main flow.
- · Double flow. Over 7.3 meters wide; it permits two columns of vehicles to proceed simultaneously.

7.3. MEASURING THE RADIUS OF AN EXSISTING CURVE.

Step 1. A chord AB is set out as shown and bisected at C, so that AC = BC = a.

Step 2. From point C, the perpendicular offset (x) is measured at point D on the curve.

Step 3. The radius is calculated from the formula.

 $R = \frac{\frac{2}{x} + \frac{2}{a}}{2x}$



7.4. CONVERSION FACTORS

U.S. UNITS	MULTIPLIED BY	EQUALS METRIC UNITS		
CENTIMETER	0.39370	INCH		
FOOT	0.30480	METER		
INCH	2.54000	CENTIMETER		
KILOMETER	0.62137	MILE		
METER	3.28084	FEET		
MILE	1.60934	KILOMETER		
	TEMPERTURE			
CENTIGRADE DEGREES	$C^o = \frac{5(F^\circ - 32)}{9}$	FAHRENHEIT DEGREES		
FAHRENHEIT DEGREES	$F^o = \frac{9C^o}{5} + 32$	CENTIGRADE DEGREES		

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7.5. SYMBOLS AND DESCRIPTIONS							
SYM	SYMBOLS DESCRIPTION						
17 📐	7/15	Sharp curve. Less than 25 meters (the figure indicates radius) [left] Series of sharp curves. The figures indicate the number of curves/radius [right]					
10-14% 7-10%	> 14%	Steep grade. Arrows point up hill; grade in percent (length of the arrows may show the length of the grade when the scale allows)					
4	120	Constriction. Left-Width Right-Total length					
_4	3.5	Arch constriction. Left-Width Right-Overhead clearance					
66	300	Tunnel. Left-Height Right-Length Bottom-Roadway and total width (include footpath)					
5	4	Underpass constriction. Width [left] and height [right]					
≜≜≜¦∳	₩4	<u>Obstacle bypass</u> . Easy-Can be crossed within the immediate vicinity by a NATO track equivalent to a 2.5-ton truck. Difficult-Can be crossed within the immediate vicinity, but some work will be necessary to prepare the bypass. Impossible-Can be crossed after repairing, building of a new construction, or by a detour.					
4.2		Level crossing. The figure indicates the height of the power line aboveground.					
3.5 <u>30</u> 6 <u>6</u> 3.6	0.4 C 0.6	Bridge. Arrow to the location Culvert. Arrow to location. Top segment-MLC Underneath-Roadway width Left-Overhead clearance Right-Overall length In the middle-Serial number Bottom-Diameter of pipe]					
>	<u> </u>	Limits of sector. Left Critical point. Right-to be numbered and described in a remark frame)					
		Concealment. Line of trees (deciduous) Left-Evergreen Right-Woods Possibility of driving off the road. Denoted by an arrow. For wheeled vehicles, the figure indicates the length of road where driving off is possible [left] or for tracked vehicles [right]).					
		<u>Ferry</u> . Arrow to the location Top-serial number and type (V = vehicle, P = pedestrian) Bottom-MLC					
3/V/1.6/X 18/2.5/G/0.4		 Ford. Arrow to the location. Top-serial number, type, current velocity of stream, seasonal limitations (V = vehicle, P = pedestrian, X = without seasonal limitations, Y = seasonal limitations). Bottom-length of crossing, width of ford, nature of bottom, depth (M = mud, C = clay, S = sand, G = gravel, R = rock, P = artificial paving). 					
		Difficult approach to cross-site. Symbol omitted for easy.					