<b>ROUTE CLASSIFICATION</b> For use of this form, see ATP 3-34.81/MCWP 3-17.4; the proponent agency is TRADOC.															
SECTION I															
1. SERIA	. SERIAL NUMBER 2. TO														
3. FOR INFORMATION								4. DATE/TIME GROUP							
5. NUMBI	ER OF	SHEETS OR E	NCLOSURES					6. RECONNAISSANCE OFFICER/NCO							
7. UNIT								8. FORMATION							
9. SIGNA	TURE														
10. UNITS USED IN THE FORM ( <i>Please check</i> )  CENTIMETERS INCHES FEET MILES METERS KILOMETERS CENTIGRADE FAHRENHEIT															
11. MAPS		EKS   INCI		IVIILL				METERS	KILOMETERS		LINTIGNAL		] FAIII	(LI	VIILII
12. COUN	NTRY							13. NAME							
14. EDITI	ON							15. SHEET NUMBER							
16. SERI	AL							17. SCALE							
							SEC1	TION II						_	
1. ROUTE	E CLA	SSIFICATION (S	See Section VII, Bi	lock 7.1.)							2. LIMITEI	D BY SI	ECTION	 \S	
	/	/	/	(	( )( )( )			)							
1	,	2	3 4	1		5			6 7	,					
							SECT	ION III							
		SIFICATION VII, Block 7.2.)	2. WEATHE	R (Include	la	st r	ainfall,	if known,	olus the temperature)	3. GF	RID REFEF	RENCE	- STAF	Т	
4. ROAD															
!				5. LIMITED 7. W FACTORS			/IDTH	DTH 8. CONSTRUCTION 9. LE			LENGTH 10. OBSTRUCTIONS				
11. START	GRID	12. FORMULA													
		13. SHOULDERS		•							•				
;	SECT	ION B													
11. START	GRID	12. FORMULA													
		13. SHOULDERS		!						'					
:	SECT	ION C													
11. START	GRID	12. FORMULA													
		13. SHOULDERS													
	SECT	ION D													
11. START	GRID	12. FORMULA													
		13. SHOULDERS		1			_			-				_	
14. GRID REFERENCE - END:															
	SECTION IV														
1. ENCLOSURES															
SERIAL				ATT	٩C	HF	D	SERIAL	TITLE				ATTA	CHI	ED
1 OVERLAY(S)				Ī			6	RAPID BRIDGE ASSESSMENT(S)							
2 MAP(S)			Ť	T		7		DETAILED BRIDGE ASSESSMENT(S)			Н				
3					Ť	Ħ		8		PHOTOGRAPH(S)					
4								9	OTHER (Describe):						
5 WORK ESTIMATE(S)			Ī	Ī		10	OTHER (Describe)	):							

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

SECT	TON VI
1. ROUTE CHART	
	a. NAME
	b. UNIT
	c. DATE/TIME GROUP
	d. SCALE
	e. REMARKS
2. NOTES	

Page 3 of 6

7.1. FAC	TORS USED IN ROUTE CLAS	SIFICATION FO	ORMULAS. For example, 3.5/X/70/3.9(OB)				
SERIAL	FACTOR	SYMBOL	MEANING				
1	WIDTH For exampl 3.5 meters		The width of the narrowest part for any given section.				
2		Х	All-weather route - waterproof surface, never closed by weather other than snow or flooding.				
	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		RMULAS.				
SERIAL	FACTOR	SYMBOL	MEANING				
		Α	No limiting factors.				
1	PREFIX	В	One or more limiting factors.				
	LIMITING FACTORS:	С					
	SHARP CURVES	C	Radius less than 25 meters and deflecting the direction more than 90.0				
	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	3 WIDTH /		Width of travelled way or total width including shoulders (when they are usable).				
	CONSTRUCTION MATERIAL:						
	TYPE X ROUTE	k	Concrete.				
4		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.				
	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	Natural earth, stabilized soil, sand-clay, shell, cinders, and so forth.				
		b v	Bituminous construction. To be used alone only when type of bituminous construction cannot be determined.  Various other types not mentioned above.				
5	LENGTH						
<u></u>		( km)	The length of the section in kilometers may be added in brackets if desired.				
6	OBSTRUCTIONS:	(OB)	Symbol at the end of the formula indicates existence of obstruction.				
	SNOW FLOODING	(T)	Regular, recurrent and serious snow blockage.				
	1 20001110	(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.

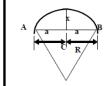
Example: B/c(f?)/3.2/4.8/p/(4.5km)(OB)(T)

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



## 7.4. CONVERSION FACTORS

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 DEGREE						
FAHRENHEIT DEGREES	$F^{o} = \frac{9C^{o}}{5} + 32$	CENTIGRADE DEGREES					

7.5. SYMBOLS AND DESCRIPTIONS								
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% 5-7% <b>4</b>	10-14% 7-10% 5-7% 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]						
<b>♣</b>	Obstacle bypass.  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.							
42 X	4.2 Level crossing. The figure indicates the height of the power line aboveground.							
3.5 30 6 3.6	© 0.6	Bridge. Arrow to the location  Top segment-MLC  Left-Overhead clearance In the middle-Serial number  Underneath-Roadway width Right-Overall length	Culvert. Arrow to location.  Top-Depth of fill  Bottom-Diameter of pipe]					
<b>&gt;</b>	Limits of sector. Left Critical point. Right-to be numbered and described in a remark frame)							
400 <b>4</b> 00 <b>0</b>	A A A A A A A A A A A A A A A A A A A							
13/V	<b>-</b>	Ferry. 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).						
_\/	<b>V</b> _	<u>Difficult approach to cross-site.</u> Symbol omitted for easy.						