

T-M

TRANSPORTATION-MARKINGS  
DATABASE: TRAFFIC CONTROL  
DEVICES

2nd Edition

Brian Clearman

Mount Angel Abbey

2008

**TRANSPORTATION-MARKINGS  
DATABASE: TRAFFIC CONTROL  
DEVICES**

TRANSPORTATION-MARKINGS  
DATABASE: TRAFFIC CONTROL  
DEVICESMARINE

Part Iii, Second Edition

Volume III, Additional Studies

Transportation-Markings: A Study in  
Communication Monograph Series

Brian Clearman

Mount Angel Abbey

2008

## Dedicated to my Grandparents:

Catherine Abbie Brady Sauers, 1878-1919  
Frederick William Sauers, 1869-1944

Annie Donaldson Clearman, 1879-1966  
Frederick William Des Coudres Clearman, 1871-1968

Copyright (c) Mount Angel Abbey, 2008  
All Rights Reserved

Library of Congress Cataloguing in Publication Data [1st ed]  
Clearman, Brian  
Database of transportation-marking phenomena : additional studies  
/Brian Clearman.  
p. cm. -- (Transportation-markings: v. 3 = pt. 1)  
"Monograph series."  
Includes indexes.  
Contents: i. Marine -- ii. TCD -- iii. Rail -- iv. Aero  
1. Transportation-markings--Databases. I. Title. II. Series:  
Clearman, Brian.  
Transportation-Markings : v. 3.  
TA 1245. C56 1984 vol. 3.  
629.04'5 a  
[629.04'5]--DC21

97-25496  
CIP

## TABLE OF CONTENTS

PREFACE	9
CHAPTER ONE INFORMATIVE SIGNS	
A Indexes	
1 Categories	11
2 Alphabetical	19
B Informative Signs	
1 Introduction, Overarching Terms & Message Configurations	
a) Overarching & Sub-Overarching Terms	27
b) Message Configurations	31
2 Destination & Distance Signs	34
3 Route Markers	
a) Introductory Note & Overarching Terms	39
b) Specialized Route Marker Terms	40
c) Route Marker Tabs	44
4 Mileposts	46
5 Signs Giving General Information (SGGI)	
a) Overarching Terms	49
b) Service Sign	52
c) Parking Signs	55
d) Recreation Signs	56
e) Other Signs	59
CHAPTER TWO WARNING SIGNS	
A Indexes	
1 Categories	67
2 Alphabetical	75
B Warning Signs	
1 Introductory Note, Message Configurations & Overarching Terms	

a) Introductory Note & Overarching Terms	85
b) Message Configurations	88
2 Roadway Alignment Signs	
a) Introductory Note & Overarching Terms	89
b) Specific Terms	91
3 Roadway Condition Signs	
a) Introductory Statements & Overarching terms	94
b) Specific Terms	95
4 Intersection Signs	
a) Introductory Note, & Overarching Terms	102
b) Specific Terms	103
5 Intermittent Moving Hazards Signs	106
6 Construction & Maintenance Signs	114
7 Other Hazards Signs	
a) General or Alternate Danger Signs	117
b) Miscellaneous Forms	119
c) Supplemental Plates/Plaques	123

## CHAPTER THREE REGULATORY SIGNS

A Indexes	
1 Categories	126
2 Alphabetical	134
B Regulatory Signs	
1 Introduction, Overarching/Sub-Overarching Terms & Messages	
a) General Note	145
b) Overarching and Sub-Overarching Terms	145
c) Messages	146
2 Priority Signs	148
3 Prohibitory & Restrictive Signs	
a) Prohibitory & Restrictive of Entry Sign	
1) One-Way & Both Direction Forms	151
2) Exclusion Categories of Vehicles Forms	152
3) Vehicular Exclusion: Weight, Height & Length Forms	154

4) Miscellaneous & Single Forms	155
b) Prohibitory & Restrictive: Turns & U-Turns Signs	156
c) Prohibitory & Restrictive: Overtaking (Passing) Signs	157
d) Prohibitory & Restrictive: Speed Limit Signs	158
e) Miscellaneous, Single Forms, & End of Prohibition or Restrictive Signs	160
4 Mandatory Signs	163
5 Standing & Parking Signs	172
6 Pedestrian Crossings Signs	178
7 Miscellaneous Regulatory Signs	181

## CHAPTER FOUR TRAFFIC SIGNALS

A Indexes	
1 Categories	183
2 Alphabetical	187
B Traffic Signals	
1 Traffic Control Signals	
a) Overarching Terms & General Note for Traffic Signals	191
b) Specific Entries	195
c) Messages	195
d) Traffic Signals Operations	199
2 Pedestrian Signals	200
3 Traffic Signals-Other Forms	202
4 Flashing Beacons	
a) Overarching Terms	206
b) Specific Terms	207
5 Lighting Devices	209
6 Grade/Level Crossing Signals	211

## CHAPTER FIVE TRAFFIC MARKINGS

A Indexes	
1 Categories	214

2	Alphabetical	221
B	Traffic Markings	
1	Overarching & Sub-Overarching Terms with General Notes	
a)	Overarching Terms with General Notes	229
b)	Sub-Overarching Terms	
1)	Broader Terms	233
2)	More Restricted Forms	235
2	Pavement & Curb Markings	
a)	Longitudinal Markings	236
1)	Center Line Markings	236
2)	Edge Lines	236
3)	Lane Markings	238
4)	Other Longitudinal Markings	240
b)	Transverse Markings	243
c)	Other Pavement & Curb Markings	245
d)	Physical Pavement Marking Forms	249
1)	Raised Pavement Markers	249
2)	Traffic Marking Physical Terms - Morphological/Physical	253
3)	Other Horizontal Markings	254
3	Hazard & Delineation Markings	
a)	Hazard/Obstruction Markings	256
b)	Delineators	259
c)	Barricades & Channelizing Devices	260

#### APPENDIX I: COMPARATIVE SURVEY OF SIGNS

i	Introduction	263
ii	Traffic Signs Systems	263
iii	Traffic Signs Approaches	265
iv	Traffic Sign Categories	267
v	The Chart	267
vi	Overarching Terms for Traffic Signs	279

#### APPENDIX II: TERMS FOR TRAFFIC CONTROL DEVICES 281





## PREFACE

The *T-M Database* (i, ii, iii, iv, v) of this Series draws together the several dimensions of T-M. It shares this drawing together function with the *T-M General Classification* (Part H). Perhaps paradoxically the two works draw together by focussing on the individual entity. Both studies illustrate the connections between T-M phenomenon as well as providing a focus on the individual unit. Yet in that process the full panoply of T-M is unfolded including their shared and connected state.

There are thousands of T-M forms. In addition there are many variant forms, alternative names, untold permutations. The sheer number of forms may obscure the common thread of T-M that interweaves the multifoliated multiplicity. Yet ultimately the multiplicity leads to the basic unity of Safety Aids of whatever kind. The variety and diversity point to a restricted system of messages serving one essential purpose: the promotion of safety. The perennial conundrum of the one and the many is found here in T-M. And the one and the many interact and explain each other.

The T-M Database examines the four modes of rail, road, acro, and marine T-M safety aids in separate studies though all remain components of Part I. The amount of labor required to prepare the Database precludes assembling all four modes of T-M in a single study (though eventually they may be united). A fifth element has been added that brings together the classifications of the four earlier studies.

There has been some confusion over the meaning of Transportation-Markings. Some users have interpreted the term as constituting a synonym for Pavement Markings. This is **Not** the case. **T-M** is a general, overarching term for all types of T-M forms. This perspective is reflected by the Library of Congress which employs T-M as a general heading in its Subject Headings. The Library of Congress includes various specific kinds of T-M forms under that general heading, including that of Pavement Markings. In order to reduce any confusion a hyphen has been added that conjoins Transportation and Markings: Transportation-Markings instead of Transportation Markings. Further information

on the use of the hyphen for T-M is included in the first edition Preface.

Classification has been a vital part of T-M from the beginning. It had been hoped to make heavy use of taxonomy in the Database Studies. But the use of the classification in the Database has proven to be problematical. Various T-M forms and classification numbers are not always reflected in the Database. And, conversely, terms of significance in the Database are not always reflected in the classification. As a result the classification did not have a direct role in the first edition of this Study. However, it has a greater role in this edition: Key terms among Sign, Marking and Signal forms have incorporated the classification designations from the classification. These key terms incorporate many other terms. Further information on the classification situation is included in the first edition.

The TCD Database has these basic subdivisions: Regulatory, Warning, Informative Signs, Traffic Signals, Traffic Markings, and two Appendices. The first presents a comparative review of Signs in various systems while the second discusses general TCD terms. The first Appendix is adapted from Part E, *International Traffic Control Devices*.

Acknowledgements for the first edition apply here as well.

## CHAPTER ONE

### INFORMATIVE SIGNS

#### 1A Indexes

##### 1A1 Category Index

#### Introduction, Overarching Terms & Message Configurations (1B1)

##### General Notes I, II

##### a) Overarching & Sub-Overarching Terms

Advance Direction & Direction Signs

Destination & Distance Signs

Directive Signs

Guide Signs

Guide & Information Signs

Indication Signs

Information Signs (I) [II is found on page 16]

Information & Direction Signs

Informational Signs

Informative Signs

Place & Route Identification Signs

Road Identification Signs

Route Markers/Route Marker Sign/Route Sign

Signs Giving Indications Only

Signs Giving General Information

##### b) Message Configurations

#### Destination & Distance Signs (1B2)

Advance Direction Signs

Advance Signs/Advance Guide Signs/One-Mile Sign/Two-Mile Sign

Approach Direction Signs

City Name Sign

Color-Coded Destination Sign

Community Interchange Sign

Confirmatory Sign

Descriptive Sign

- Destination Sign
- Destination & Distance Signs
- Diagrammatic Sign
- Direction Indicator
- Direction Sign
- Directive Sign
- Distance/Confirmation-Distance Sign
- Exit Direction Sign
- Exit Number Panel
- Expressway Directional Sign
- Expressway Interchange Sign
- Fingerboard Sign
- Fingerpost/Direction Post/Guide Posts/Signpost
- Gore Sign
- Interchange Sequence Signs
- Mileage Sign
- Next Exit Supplemental Sign
- Next (X) Area Sign/Next X Exit Sign
- Place Sign/Place Name Sign/Place Identification Sign
- Pull Thru Signs
- Street Name Sign/Street Name Plates
- Supplemental Advance Guide Sign
- Route Markers (1B3)
  - a) Introductory Note & Overarching Terms
    - Route Marker/Route Sign
    - Road Identification Sign
    - Route-Indicators
  - b) Specialized Route Marker Terms
    - Auxiliary Markers/Auxiliary Signs
    - Bicycle Route Markers
    - Combination Junction Signs
    - Confirming Route Assembly/Reassurance Assembly
    - Reassurance Route Marker
    - County Route Marker/County Route Sign
    - Forest Route Marker

- Interamerican Highway Route Marker
- Interstate Route Marker/Interstate Route Sign
- Off-Interstate Business Loop Marker/Off-Interstate Business Spur
- Pan American Road Route Marker
- Provincial Route Marker
- Road Marker
- State Route Marker/State Route Sign
- Trailblazers
- Trans-Canada Route Marker
- Trunk Route Marker
- US Route Marker
- c) Route Marker Tabs
  - General Note
  - Advance Turn Arrow Tabs/Advance Turn Arrow Auxiliary Sign/Advance Turn Arrow Markers/
  - By-Pass Tab/By-Pass Marker/By-Pass Auxiliary Sign
  - Cardinal Direction Tabs Signs/Cardinal Direction Auxiliary Signs/ Cardinal Auxiliary Marker
  - Directional Arrows Tab/Directional Arrows Marker/Directional Arrow Auxiliary Sign
  - End Marker/End Auxiliary Sign/End of Route Tab
  - Junction Tab Sign
  - Markers for Alternate Routes/Alternate Auxiliary Signs/Auxiliary Signs for Alternative Routes
    - Temporary Marker Tab/Temporary Auxiliary Sign
    - Alternate Marker/Alternate Auxiliary Sign
    - Bypass Marker
    - Relief Marker
    - Business Marker/Business Auxiliary Sign
    - Detour Marker/Detour Auxiliary Marker Sign
    - Detour Sign
    - Truck Route Marker/Truck Auxiliary Sign
  - Tab Signs
- Mileposts (1B4)
  - General Note

- Direction Stones
- Kilometre Stones
- Landmarks/Guide Sign
- Mark/Marker
- Mark Stones
- Mile Marker
- Mileposts/Mile Posts (I)
- Mileposts (II)
- Milestones
- Reference Location Sign/Intermediate Reference Location Sign
- Road Marker
- Stone Marker
- Signs Giving General Information (SGGI) (1B5)
  - General Note
    - a) Overarching Terms
      - Direction, Position, Or Indication Signs
      - Information, Facilities or Service Signs
      - General Information & Auxiliary Signs
      - General Information Signs
      - General Motorist Services Signs/Service Signs
      - General Service Signs
      - Indicative Signs
      - Indication Signs/Signs Giving Indications Only
      - Other Signs Providing Useful Information for Drivers of Vehicles/
        - Signs Giving Notice of Facilities Which May Be Useful to Road Users
      - Signs Giving General Information
      - Off-Road Facilities Signs
        - Recreation & Accommodations
        - Essential Services
        - Food & Fuel
      - Recreational & Cultural Interest Area Signs
        - General Services
        - Motorist Services
        - Accommodations Services

Land  
Water  
Winter

Routing to Specific Destinations  
Miscellaneous Information Signs  
Service Signs/Specific Service Signs

b) Services

Accommodations Sign/Hotel Sign/Motel Sign/Lodging Sign  
Airport Sign  
Ambulance Station Sign  
Breakdown Service Sign/Mechanical Help Sign/Mechanical Services  
Sign/Service Station Sign  
Carpool Information Sign  
Channel 9 Monitored Sign  
Emergency Dial XXX Sign  
Emergency Medical Sign  
Emergency Medical Services Sign  
Ferry Boat Sign  
First Aid Sign/First-Aid Sign/First Aid Station  
Filling Station Sign/Fuel Sign/Gas Sign/Gas Station Sign /Full (Diesel)  
Sign  
Food Sign/Restaurant Sign/Refreshment or Cafeteria Sign  
Hospital Sign  
International Symbol of Accessibility for the Handicapped Sign  
Litter Container Sign  
Next Services ... Miles Sign  
Pharmacy Sign  
Phone Sign/Telephone Sign  
Recreational Vehicle Sanitary Station Sign  
Travel Info Call 511 Sign

c) Parking

Authorized Parking Place Sign/Authorized Parking-Place Sign  
Parking Sign  
Parking Area Sign  
Parking Allowed Sign



- Parking Without Lights Sign
- Park & Ride Sign/Park & Ride Next Right Sign
- d) Recreation Signs
  - Boat Launch Ramp Sign
  - Camping Sign
  - Camping or Caravan Site Sign
  - Caravan Sign
  - Information Center Site Sign
  - Picnic Site Sign/Picnic Table Sign/Picnic Tables ... Miles Signs/Picnic Area Km (X Mile) Sign
  - Rest Area Sign
  - Roadside Parking Area ... Miles Sign/Roadside Rest ... Feet Sign
  - Roadside Table X KM (X Mile) Sign/Roadside Park X Km (X Mile)
  - Scenic Area Sign
  - Scenic Overlook Sign
  - Tent Camp Sign
  - Trailer Camp Sign/Trailer Camping Sign
  - Travel Information Sign
  - Trolley Park Sign
  - Viewpoint Sign
  - Youth Hostel Sign
  - Other Recreational & Cultural Interest Area Signs [Category]
- e) Other Signs
  - Access for Handicapped Sign
  - Advance Signs-Exit Motorway
  - Advised Itinerary for Heavy Vehicles Sign
  - Advisory Speed Sign
  - Beginning of Built-Up Area Sign/End of Built-Up Area Signs
  - Bicycle Route Sign
  - Bus Stop Sign
  - Bus Stop Sign/Tramway Stop Sign
  - County Sign
  - Crossover Sign/Advanced Crossover Sign
  - Cul-De-Sac Sign
  - Escape Lane Sign

General Speed Limits Sign  
Information Signs (II)  
Information Symbol Sign  
National Scenic Byway Sign  
No Through Road Sign  
Motorway Sign/End of Motorway Sign  
Parking Area Sign  
Pedestrian Activated Signal Sign  
Pedestrian Overpass Sign/Pedestrian Underpass Sign  
Police Sign  
Protected Pedestrian Walk Sign  
Radio Information Signing  
Radio-Traffic Information Sign/Radio-Weather Information Sign  
Recreation Area Sign  
Rest & Information Area Sign  
Rest Area Sign  
Recycling Collection Center Sign  
River & Lake Sign  
Road For Motor Vehicles Sign/End of Road For Motor Vehicle Sign  
Sanitary Facility Sign  
Signs Indicating Number & Direction of Traffic Lanes Sign  
Signs Indicating Closure of a Traffic Lanes  
Signs Notifying An Exit From a Motorway  
Tourist Information Center Signs/Welcome Center Signs  
Tourist-Orientated Directional Signs (TODS)  
Traffic Signal Speed Sign  
Trail Signs  
Turn Marker  
Weigh Station Signing  
    Advance Symbol Signs  
    All Trucks Commercial Vehicles Next Right Signs  
    Exit Direction Sign  
    Gore Signs  
Other Signs:  
    CASATC

Second Stage  
Tram Stop No. \_\_  
US MUTCD 1971  
Do Not Throw Litter  
Emergency & Authorized Vehicle Only  
Keep Off Wet Paint  
No Dumping Allowed  
No Fishing From Bridge

## 1A2 Alphabetical Index

Access for Handicapped Sign	59-60
Accommodations/Hotels/Motels/Lodging Sign	52
Advance/Advance Guide/One-Mile/Two-Mile Sign	34
Advance Direction & Direction Signs	27-28
Advance Direction Signs	34
Advance Itinerary for Heavy Vehicles Signs	60
Advance Signs-Exit Motorway	60
Advance Turn Arrow Tabs/Advance Turn Arrow Markers/Advance Turn Arrow Auxiliary Sign	44
Advisory Speed Sign	60
Airport Signs	52
Alternate Markers/Alternate Auxiliary Sign	45
Ambulance Station Signs	52
Approach Direction Signs	34-35
Authorized Parking Place Sign/Authorized Parking- Place Sign	56
Auxiliary Markers/Auxiliary Signs	40-41
Auxiliary Signs for Alternates Routes: Markers for Alternate Routes	45
Beginning of Built-Up Area/End of Built-Up Area Sign	60
Bicycle Route Marker	41
Bicycle Route Sign	60
Boat Launch Ramp Sign	57
Breakdown Service Sign/Mechanical Help Sign/ Mechanical Service/Service Station	52
Bus Stop Signs	60
Bus Stop Sign/Tramway Stop Sign	60
Business Marker/Business Auxiliary Sign	45

By-Pass Tabs	44
Bypass Tabs/By-Pass Markers/By-Pass Auxiliary Sign	45
Camping Sign	57
Campsite or Caravan Site Sign	57
Caravan Sign	57
Cardinal Direction Tab Sign/Cardinal Directional Marker/Cardinal Directional Auxiliary Sign	44
Carpool Information Sign	52
Channel 9 Monitored Sign	53
City Name Signs	35
Color-Coded Destination Signs	35
Combination Junction Sign	41
Community Interchange Signs	35
Confirming Route Assembly	41
Confirmatory Signs	35
County Route Markers/County Route Sign	41
County Sign	61
Crossover Sign/Advanced Crossover Sign	61
Cul-de-Sac Sign	61
Descriptive Signs	35
Destination Sign	36
Destination & Distance Signs	28, 34, 36
Detour Sign	45-46
Detour Marker/Detour Auxiliary Marker Sign	45
Diagrammatic Sign	36
Direction Indicator	36
Direction Indicator Sign	36-37
Directional Arrow Tab/Directional Arrow Marker/Directional Arrow Auxiliary Sign	44
Directional, Position, Or Indication Sign	49
Direction Stone	46
Direction Sign	37

Directive Sign	28, 35
Distance Sign/Confirmation-Distance Sign	35
Do Not Throw Litter Sign	66
Emergency & Authorized Vehicle Only Sign	66
Emergency Dial XXX Sign	53
Emergency Medical Care Sign	53
Emergency Medical Services Sign	53
End Marker/End Auxiliary Signs/End of Route Tab	45
Escape Lane Sign	61
Exit Direction Sign	37
Exit Number Panels	37
Expressway Directional Sign	37
Expressway Interchange Sign	37
Express Directional Signs	37
Ferry Boat Sign	53
Filling Station Sign/Fuel Sign/Gas Sign/ Gas Station Sign/Fuel (Diesel) Sign	53
Fingerboard Sign	37-38
Fingerposts/Direction Posts/Guide Posts/Signposts	38
First Aid Sign/First-Aid Sign/First Aid Station Sign	53
Food/Restaurant/Refreshment or Cafeteria Sign	54
Forest Route Markers	41-42
General Information & Auxiliary Sign	49
General Motorist Service Sign/Service Sign	50
General Speed Limits Sign	61
General Information Sign	49
Gore Sign	38
General Service Sign	50
Guide Signs	28
Guide & Information Signs	28
Hospital Sign	54

Indication Signs	28
Indication Signs/Signs Giving Indication Sign	50
Indicative Signs	50
Information Signs (II)	61
Information Center Site Signs	57
Information, Facilities or Services Signs	49
Information Signs (I)	28-29
Information Signs	28-29
Information & Direction Signs	29
Informational Signs	29
Information Symbol Signs	62
Informative Signs	27, 29
Interamerican Highway Route Marker	42
Interchange Sequence Sign	38
International Symbol of Accessibility for the Handicapped Sign	54
Interstate Route Marker Interstate Route Sign	42
Junction Tab Signs	45
Keep Off Wet Paint Signs	66
Kilometre Stones	46
Landmarks/Guide Sign	46
Litter Control Signs	55
Mark/Marker	46-47
Mark Stones	47
Markers for Alternate Routes/Alternate Auxiliary Sign/Auxiliary Signs for Alternative Routes	45
Messages	31-34
Mileage Sign	38
Mile Marker	47
Mileposts	46

Mileposts (II)	47-48
Mileposts/Mile Posts (I)	47
Milestones	48
Miscellaneous Information Signs	51
Motorway Sign/End of Motorway Sign	62
National Scenic Byway Sign	62
Next (X) Area Sign/Next (X) Exit Sign	38
Next Exit Supplemental Sign	38-39
Next Services ... Miles Sign	55
No Dumping Allowed Sign	66
No Fishing From Bridge Sign	66
No Through Road Sign	62
Off-Interstate Business Loop Marker/Off-Interstate Business Spur Marker	42
Off-Road Facilities Signs	51
Recreational & Accomodations Signs	
Essential Services Signs	
Food & Fuel Signs	
Other Recreational and Cultural Interest Area Signs [Category]	59
Other Signs	59
Other Signs Providing Useful Information For Drivers of Vehicles/Signs Giving Notice of Facilities Which May Be Useful to Road Users	50
Pan American Road Route Marker	42
Park and Ride Sign/Park and Ride Next Right Sign	56
Parking Allowed Sign	56
Parking Areas Signs	56
Parking Signs	55-56
Parking Without Lights Signs	56
Pedestrian Activated Signal Signs	62
Pedestrian Overpass Sign/Pedestrian Underpass	



Sign	62-63
Pharmacy Sign	55
Phone/Telephone Sign	55
Picnic Site/Picnic Table/Picnic Table ... Miles/ Picnic Area X km (X Miles) Signs	57
Place & Route Identification Signs	29
Place Sign/Place Name Sign/Place Identification Sign	39
Police Sign	63
Protected Pedestrian Walk Sign	63
Provincial Route Marker	42
Pull Thru Signs	39
Radio Information Signing	63
Radio-Traffic Information Sign/Radio-Weather Information Sign	63
Reassurance Assembly: Confirming Route ...	41
Reassurance Route Marker	42
Recreation & Cultural Interest Area Signs (General Services, Motorist Services, Accomodations Services, Land, Water, Winter)	51, 59
Recreation Area Sign	63
Recreation Sign	56
Recreational Vehicle Sanitary Station Sign	55
Recycling Collection Center Sign	63-64
Reference Location Sign/Intermediate Road Location Sign	48
Relief Marker	45
Rest Area Sign	57, 63
River & Lake Sign	64
Rest Area Sign	57
Rest & Information Area Sign	63
Road For Motor Vehicles/End of Road Vehicles Sign	64
Road Identification Signs	29, 40

Road Marker	43, 48
Roadside Parking Area ... Miles Sign/Roadside Rest ... Feet Sign	58
Roadside Table X km (X Mile Sign/Roadside Park X Km (X Mile) Sign	58
Route-Indicator	40
Route Markers/Route Marker Signs/Route Sign	30
Route Markers	39-40
Route Markers/Route Signs	40
Route Marker Tabs	44
Routing to Specific Destinations Sign	51
Sanitary Facility Signs	64
Scenic Area Signs	58
Scenic Overlook Signs	58
Second Stage/Tram Stop No. __	66
Service Signs/Specific Service Signs	51-52
Signing for Civil Defense/Emergency Management (Evacuation Route Marker/Evacuation Route Sign./ Area Closed Sign/Traffic Regulation Post Sign/Traffic Control Point Sign/ Emergency Speed Sign/Maintain Top Speed Sign/Road Use Permit sign/Road (Area) Use Permit Required For Thru Traffic Sign/ Emergency Aid Centers/Fallout Shelter Directional Signs/Shelter Directional Signs)	66
Signs Giving General Information (SGGI)	30, 49, 50
Signs Giving Indications Only Signs	30
Signs Indicating Number & Direction of Traffic Lane	64
Signs Indicating Closure of a Traffic Lane	64
Signs Notifying An Exit From a Motorway	64-65
State Route Marker/State Route Sign	43
Stone Marker	48
Street Name Signs/Street Names Places	39

Supplemental Advance Guide Signs	39
Tab Sign	46
Temporary Marker Tab/Temporary Auxiliary Sign	45
Tent Camp Sign	58
Tourist Information Center/Welcome Center Sign	65
Tourist-Orientated Directional Services Sign	65
Traffic Signal Speed Sign	65
Trail Blazer Signs	43
Trail Sign	65
Trailer Camp Signs/Trailer Camping Sign	58
Trans-Canada Route Markers	43
Travel Info Call 511 Sign	55
Travel Information Sign	58
Trolley Park Sign	59
Trunk Route Marker	43
Trunk Route Markers/Trunk Auxiliary Signs	46
Turn Marker: Marker For	65
US Route Markers	43
Viewpoint Sign	59
Weigh Station (Advance Symbols Signs/ All Trucks Commerical Vehicles Next Right Signs/ Exit Directions Signs/Gore Signs)	65-66
Youth Hostel Sign	59

## 1B Informative Signs

### 1B1 Introduction, Overarching Terms & Message Configurations

General Note I. Terminology for this range of Signs is complex. A variety of terms have been employed even to relatively recent times. UN 1949 employed Informative Signs and UN 1968 provided a truncated version with Parking Signs removed from Informative Signs. IAMM and US MUTCD have opted for Guide Signs. Informative Signs may be the most acceptable overall term though it is not universally employed. The contents of the category are very diverse. One might suggest that any Sign not in Warning Signs and Regulatory Signs is an Informative Sign.

General Note II. The General Classification (Part H), has eight subdivisions based on UN 1968. However, five of the groups can be reconfigured under a single heading of Destination and Distance Signs (US 1961 and IAMM 1967 headings) or under Guide Signs (Canada 1976) for this study. UN GERSS 1952 has these Signs under two headings but they too can be gathered together under one heading. A second major subdivision for this study is that of Route Markers. This is a major grouping for a variety of systems including those previously mentioned as well as ECAFE 1964. UN 1968 instead deploys Road Identification Signs which corresponds to Route Marker). The final UN 1968 topics are merged into Signs Giving General Information (SGGI).

The Overarching and Sub-Overarching terms are designated by OA (Overarching), and SOA (Sub-Overarching). Those terms which are actual Sign entities are designated E for Entries. A term may have two or even all three designators.

#### a) Overarching & Sub-Overarching Terms

ADVANCE DIRECTION & DIRECTION SIGNS [SOA/E]. This is a combined heading for UN 1949. The two sign types are separate for UN 1968, UN GERSS 1952, and ECAFE 1964. They correspond to Destination and Direction Signs of the Western Hemisphere. Both set of terms can be regarded as a subcategory; they

can also be viewed as separate entities.

References: UN 1968, UN GERSS 1952, ECAFE 1964

DESTINATION & DISTANCE SIGNS [SOA]. This is a basic category for the Database. It originates with IAMM 1967 and US 1961. Advance Direction & Direction Signs are comparable terms. The Signs give place destination as well as distance information to a given place.

Reference: IAMM 1967, US 1961

DIRECTIVE SIGNS [SOA]. This term from Tripp is a basic category within Information Signs for UK. Tripp augments the somewhat limited information of OBS through UK MOT 1950 for these Signs.

Reference: Trip 1950

GUIDE SIGNS [OA/SOA]. US MUTCD and IAMM 1967 employ this term as a general term for the category otherwise known as Informative Signs. Canada uses the term for what are otherwise known as Distance and Destination Signs within the Informative Signs category.

Reference: IAMM 1967, US MUTCD 1961

GUIDE & INFORMATION SIGNS. Manitoba employs a variant term that seemingly combines the terms in use in the US and in Canada.

Reference: Manitoba 2007

INDICATION SIGNS [OA/SOA]. For UN 1949 this term is one of two subdivisions of Informative Signs. It includes Parking Hospital, First-Aid, Mechanical Help, Filling Station and Priority Road Signs. LN 1939 employs the same term for the entire category of Informative Signs. LN 1931 has an alternative title of Signs Giving Indications Only. It can be noted that categories for older systems had fewer Signs than newer systems.

References: UN 1949, LN 1939, LN 1931

INFORMATION SIGNS (I). [OA/SOA/E]. This term is broad in meaning and occurs in various contexts. The Spanish language version of IAMM 1981 employs Information (Senales de Informacion) in place of Guide Signs as a general term.

US MUTCD 1961 includes a restricted term of Information Signs which was changed to General Information Signs in US MUTCD 1971. These Signs are of a miscellaneous character. See also: Information Signs (II), page 61.

Reference: IAMM 1981, US MUTCD 1961, 1971

INFORMATION & DIRECTION SIGNS. The Province of Ontario includes this variant term in place of Information Signs which is employed in Canada.

Reference: Ontario 2003

INFORMATIONAL SIGNS. Eliot 1960 and Sessions 1961 include this term.

This is a possibly historic term that includes a variety of Traffic Sign forms.

References: Eliot 1960, Sessions 1961

INFORMATIVE SIGNS [OA].

Classification #: 433

Form of Aid: Unlighted TCD Aid

Operation: Messages are displayed visually on Signboards. Alphanumeric and graphic symbols are displayed according to established patterns.

Comments: A term apparently introduced by UN 1949. It is the primary term for this category which includes Direction & Destination, Route Markers, Mile Posts, and Signs Giving General Information.

Reference: UN 1949

PLACE & ROUTE IDENTIFICATION SIGNS [Part-SOA]. This Sign subdivision is found in UN 1949 and CASATC 1950. It includes two forms of Signs. Both forms are found within the subcategory of Destination and Direction Signs.

Reference: UN 1949, CASATC 1950

ROAD IDENTIFICATION SIGNS [Possible SOA]. UN 1968 includes this designation which can be regarded as a single Sign though it is the equivalent of Route Markers, a multi-faceted entity. The sign is listed in Article 5 of the UN publication though not in the detailed Annexes.

Reference: UN 1968

ROUTE MARKERS/ROUTE MARKER SIGN/ROUTE SIGNS [SOA/E].

Classification #: 4331

Form of Aid: Unlighted TCD Aids

Operation: Messages are conveyed through agreed upon alphanumeric and graphic symbols. Signboards are of conventional shapes and sizes but they also include special shield and variant forms and also very small Signs or Tabs.

Comments: US MUTCD changed Route Markers to Route Signs though Route Markers are retained in this study. UN 1968 employs an apparently similar term, Road Identification Signs. Canada 1976 adds Signs to Route Markers. A segment, 1B3, of this study takes up general considerations of Route Markers,

References: Canada 1976, US MUTCD 1988, 2000

SIGNS GIVING INDICATIONS ONLY [OA]. This is the term of choice for LN 1931 for the general category of Informative Signs. See also Indication Signs.

Reference: LN 1931

SIGNS GIVING GENERAL INFORMATION (SGGI) [SOA]. This term from UN GERSS 1952 encompasses a spectrum of Signs giving various kinds of information. The term is a Sub-Overarching term for this Sign category. Other Systems have a variety of fragmented terms that together cover what this one term includes. UN 1968 has Other Signs Providing Useful Information for Drivers of Vehicles and Signs Giving Notice of Facilities Which May Be Useful to Road Users. CASATC 1950 has Signs of General Interest. Indicative Signs includes similar information in UN 1949.

IAMM 1967 includes General Information & Auxiliary Signs. Canada 1976 includes Off-Road Facilities Signs (Recreation and Accommodation Signs, Essential Services Signs, Food and Fuel Signs). Canada also has Miscellaneous Information Signs. US MUTCD 1961 includes an Information Signs category encompassing Rest and Information Area Signs, Service Signs, Parking Area Signs, Other Directional Signs, Mileposts, and a confusingly named Information Signs group (The last named was changed to General Information Signs in US 1971).

Reference: UN 1968, CASATC 1950, UN 1949

## b) Message Configurations

Message patterns have a threefold pattern in this category: 1) Destination & Distance (hereafter D & D), 2) Route Markers, and 3) Signs Giving General Interest. Messages are grouped by systems within those patterns.

IAMM'S D & D Signs have a white ground with black graphics and word symbols. High density traffic forms require a green ground with white graphic and word symbols.

UN 1968 has two configurations for D & D: either white or "light-coloured" symbols on dark ground or the reverse pattern; both are rectangular-shaped. UN 1949 follows a similar pattern with the added remark that Distance Signs end in an arrowhead.

ECAFE 1964 and UN GERSS 1952 Sign forms are virtually identical in most instances. However, there is a nuanced difference in D & D Signs. ECAFE calls for rectangular Signs with white ground and black letters (and presumably numbers as well). UN GERSS 1952 allows for either light ground and dark letters or the reverse pattern. The pattern chosen by ECAFE is the recommended one for GERSS.

Canada 1976 follows a pattern of white words, arrows, numbers on green ground. D & D Signs are rectangular though Fingerboard Signs end in an arrowhead. US MUTCD 1961 offers two patterns: black symbols on white ground or white symbols on either green or black ground. Newer editions permit white on green only. Limited variation is permitted with Color-coded Destination Signs, MUTCD 2003.

LN 1926 lacks D & D Signs. LN 1928 includes an Obligatory Direction Sign which displays a disc with blue ground and white arrow. LN 1931 specifies rectangular-shaped Signs which may end in arrowheads. Specific Sign color patterns are optional. However, red is not to be a major color for D & D. LN 1939 included two patterns: Blue ground with white lettering, or white ground or light yellow ground with black letters. Direction Signs can end in an arrowhead pattern.



While the information for CASATC 1950 is not complete it would appear that a pattern of white symbols on black ground was employed. Black symbols on white ground with black borders were in use for OBS by 1950.

IAMM 1967 employs rectangular-shaped Signs for Guide (Informative Signs) though a “special shape” can be adopted for Route Markers; this shape is often that of a shield. These Markers apparently have a white ground and black symbols.

UN 1968 allows rectangles or shields for Route Markers. Symbols are white or “light-coloured” on dark ground or the reverse. The UN 1949 pattern for Route Markers is similar.

ECAFE 1964 and UN GERSS 1952 have rectangular-shaped Route Markers with black symbols on white ground.

Canada 1976 provides a complex message situation. Trans-Canada Route Marker displays a white maple leaf with green lettering on a ground that is white and green. Provincial Route Markers can have a variety of color configurations. Tabs have black graphic symbols and rim on white ground. One form of the Junction Tab has a green ground with white letters, words, rim.

US Route Marker/Route Signs employs either a cut-out shield (the Sign plate is cut in the form of a shield rather than display a painted or embossed image on a standard plate. The cut-out shield dropped out of MUTCD 1971) or a shield graphic symbol on plate. Symbols have black numbers on white ground; the second form adds black ground. Interstate Route Markers have a cut-out shield with numbers in white on blue ground and word “Interstate” in white on red ground and white border in MUTCD 1971 and newer editions.

US State Markers are especially complex because of 50 models (US MUTCD 1948). Nearly all of these Markers are square in shape with black symbols, rims, borders and white ground. Frequently there is a white inset within a black ground. US MUTCD 1971 has a recommended form which consists of black letters, white

circle and black ground; seven states have adopted that form according to USDOT FHA 1979. State graphic designs include various shield shapes, state shapes, diamonds with one cut-out version, and one rectangular-shaped plate.

US MUTCD 1971 and later additions list other Route Marker forms including Business Loop and Spur (white on green), County (yellow on blue), Forest (white on brown). County and Forest types do not follow the shield forms (letters, numbers on plates without other design features). A national counties organization has a recommended County Marker design that some counties have adopted. Off-Interstate Business Route Sign displays white symbols on green ground.

CASATC 1950 has a rectangular-shaped Route Marker with emphasis on the vertical dimension. Arrows, letters, numbers are white on black ground.

IAMM 1967 employs rectangles with a vertical emphasis for General Information and Auxiliary Signs (Signs Giving General Interest). They have a blue ground with white insert. Black graphic symbols are applied to the white insert. White arrows, numbers, letters on the blue ground accompany the primary symbols.

Canada 1976 uses square plates for Off Road Signs (within the SGGI category). They have a brown ground and white symbols. Hospital and Airport Signs, in a different subdivision, are square with green ground and white symbols.

Other miscellaneous Signs from Canada include rectangular Sign plates with black symbols on white ground (County, First Aid), and white symbols on green (River & Lake). The Pedestrian Activated Signal Sign has black symbols on white ground but the Sign plate has a vertical emphasis. Canada 1985 replaces the older word version with one that has graphic symbols.

UN 1949 SGGI Signs are very similar to IAMM 1967 forms. UN 1968 Signs are in two forms: Other Signs Providing Useful Information for Drivers of Vehicles which have a blue ground and white symbols. Some of these forms are rectangular-shaped while others are square. Signs Giving Notice of Facilities May Be Useful to Road Users have a green or blue ground with white or yellow insert with black symbols (with some exceptions).

UN GERSS 1952 and ECAFE 1964 display black symbols on white ground for Informative Signs. UN GERSS permits, but does not recommend, a reverse pattern. ECAFE specifies rectangular-shaped signs.

US MUTCD 1971 changed many black symbols and borders on white ground to white symbols and borders on green ground. Newer editions display white on blue for Tourist-Orientated Directional Signs. Recreational and Cultural Interest Area Signs display white symbols and borders on brown ground.

LN 1939 has few Signs in this group. They include Parking Signs displaying a blue ground with a white letter "P." The First-Aid Signs had a dark ground, white rim, white insert, dark symbols. LN 1931 Signs were of the same pattern.

OBS 1950 employs black letters, red and yellow ground for the No Waiting Sign. Waiting Limited Signs display a blue ground, white letters and red rim. CASATC 1950 contains little information about this category of Signs.

#### 1B2 Destination & Distance Signs

ADVANCE DIRECTION SIGNS. This Sign provides place information and directional arrows but without mileage indications. This Sign overlaps with Direction Signs which see. It is found in LN and UN systems.

Reference: UN 1968

ADVANCE/ADVANCE GUIDE/ONE-MILE/TWO-MILE SIGN. This Sign indicates upcoming interchanges. US MUTCD 1961 includes the One-Mile Sign and the Two-Mile Sign as types of Advance Guide Signs. US MUTCD 1971 has a single Advance Guide Sign within which are various forms from quarter-mile to two miles. US MUTCD 1961 did not include the word "guide" in the name though these Signs are part of Advance Guide Signs.

References: US MUTCD 1961, 1971

APPROACH DIRECTION SIGNS. Only one source lists this Sign. This Sign appears to be similar to Advance Direction Signs. It is positioned before junctions

and includes route numbers and the name of the next place on the route.

Reference: Noble 1946

CITY NAME SIGNS. This term is an alternative to the Place Name Sign of UN 1968. It is seemingly within D & D.

Reference: IAMM 1967

COLOR-CODED DESTINATION SIGNS. These Signs included color-coded messages within a standard Sign in order to reduce confusion in a complex information situation.

References: US MUTCD 2003

COMMUNITY INTERCHANGE SIGN. This Sign was split off Interchange Sequence Sign in US MUTCD 1978. It is employed where several exits are required. Exits and distance to them are listed.

Reference: US MUTCD 1978.

CONFIRMATORY SIGN. This Sign is similar to the Confirmatory-Distance Sign of Canada 1976, or the Distance Sign of US 1961. The source of the Sign, UN 1968, offers little information on the Sign. The meaning confirms previously given information on place, route and distance.

Reference: UN 1968, Canada 1976, US 1961

DESCRIPTIVE SIGN. CASATC places this Sign within the Place and Route Identification Signs. It is a form of Place Name Sign though it may also fit the Signs Giving General Information group.

Reference: CASATC 1950

DIRECTIVE SIGN. This term is seemingly found only in Tripp who speaks of Directive Signs within the Informative Sign category. Tripp is a supplement to the OBS whose information is less complete.

Reference: Tripp 1950

DISTANCE SIGN/CONFIRMATION-DISTANCE SIGN. Term from US (1) and Canada (2). These Signs bear resemblance to both Advance Direction and

Direction Signs of UN 1968. The Canadian version includes no more than two towns while the US can include three.

References: Canada 1976, US 1961

DESTINATION SIGN. Canada 1976 provides several versions of this Sign which lists one to three place names with arrows but without distances. US has a similar Sign to that of Canada as well as a version with arrow and mileage data.

References: Canada 1976, US MUTCD 1961

#### DESTINATION & DISTANCE SIGNS.

General Note. This term is the Sub-Overarching heading for this group of Signs within Informative Signs. The Signs given directions and distances to one or more locations with directions indicated by arrows. IAMM 1967 has a category under this name though the Signs are not clearly tied to D & D Signs. US MUTCD 1961 has a category under the same name and individual Signs are clearly listed.

Mexico includes a variant form in which a Route Marker is added to the Place name, arrow and distance Sign.

Classification #: 4330

Form of Aid: Unlighted TCD Aid

Operation: Visual messages displayed through Signboards according to established patterns of color and alphanumeric and graphic symbols.

Comments: Term amalgamates two basic forms and incorporates a wide range of subdivisions from UN 1968.

References: US MUTCD 1961, IAMM 1967, RDM (IAMM) 1981

DIAGRAMMATIC SIGN. Term for a Guide Sign used for US expressways and freeways. It presents a graphic image of exit patterns. It provides information traditionally supplied by several forms of alphanumeric Signs. US MUTCD 1971 and newer editions include it. IAMM 1981 includes a similar Sign for Mexico.

Reference: US MUTCD 1971, IAMM 1981

DIRECTION INDICATOR. This seems to be an informal synonym from Noble for the Direction Sign.

Reference: Noble 1946

**DIRECTION SIGN.** This Sign, ending with an arrowhead, gives place name(s) and distance. It is distinct from Advance Direction Signs. It is found in UN, CASATC and ECAFE systems. The UN 1949 version of this Sign is clear and unambiguous. However, UN 1968 gives a less clear picture of it since some Direction Signs appear similar to the Advance Direction Sign. The Canadian Fingerboard Sign is very similar to the UN 1949 type which see. CASATC includes the Sign partly within Advance Direction & Direction Signs and partly within Place & Route ID Signs. One version has arrows, one has an arrowhead. Reference: UN 1949, CASATAC 1950, ECAFE 1964, Canada 1976

**EXIT DIRECTION SIGN.** A Sign placed before, or at, the gore. It displays route number/name, direction, destination, directional arrow symbols, information. Reference: US MUTCD 1961

**EXIT NUMBER PANEL.** The term "Panel" may be similar in meaning to Tab. This Aid accompanies US freeway and expressway signs and gives exit numbers at interchanges. Panels may suggest a large unit yet it can apparently have the size and possibly the function of a Tab. Panels can also have substantial size. Reference: US MUTCD 1971

**EXPRESSWAY DIRECTIONAL SIGN.** This term seems to include Expressway Interchange Signs though it offers a more encompassing term for the larger category of Expressway Signage. The Sign combines Route Marker and Destination Signs. Reference: US MUTCD 1961

**EXPRESSWAY INTERCHANGE SIGNS.** Term for a type of sub-overarching Sign encompassing Gore, Exit Direction, Advance, Next Exit Signs. It is from US 1961 and later editions of MUTCD. It may also be a specific Sign type. Reference: US MUTCD 1961

**FINGERBOARD SIGNS.** This term seems to describe the physical dimension rather than the Sign in its message role. However, the Fingerboard Sign is the formal name for the Sign in Canada 1976, and includes message, meaning and

physical dimensions. The Fingerboard is akin to UN 1949 Direction Signs and some UN 1968 Direction Signs. It is a rectangular-shaped board with an arrow-head end. It gives the name and distance of a single locale.

Reference: Canada 1976

FINGERPOSTS/DIRECTION POSTS/GUIDE POSTS/SIGNPOSTS. Noble 1946 offers several historic terms that can be regarded as Direction signs. Despite differences in names they are grouped together. Noble views Signposts and Fingerposts as synonyms. Direction Posts is more accurate for the function of offering directions; Guide Posts is yet another synonym. These Signs may be older than Milestones though not common until the turnpike era in the 18th century.

References: Noble 1946

GORE SIGN. Gore has the meaning of a triangular piece of land. Gore Signs are located in the gore formed by diverging roadways. They indicate the diverging roads and are the final Signs to mark those roadways. There are four forms though not all forms have specific names. Messages include exit, destination, route numbers, directions, through lanes.

Reference: US MUTCD 1971

INTERCHANGE SEQUENCE SIGNS. These Signs identify two and three interchanges in areas where interchanges are close together. The messages take the form of name or route numbers.

Reference: US MUTCD 1971

MILEAGE SIGN. US MUTCD 1971 changed the name of the Distance Sign to Mileage Sign. However, the US MUTCD 1978 reverted back to Distance Sign.

Reference: US MUTCD 1978

NEXT (X) AREA SIGN/NEXT X EXIT SIGN. These are advance Signs for Advance Guide Signs for historic, recreational and urban situations.

References: US MUTCD 1978, 2003

NEXT EXIT SUPPLEMENTAL SIGN. This Sign is employed where a series of

Exits are widely spaced; the mileage is added to the basic Sign. The word Sign appears in US MUTCD 1961. US MUTCD 1971 added the word Supplemental. Reference: US MUTCD 1961, 1971

PLACE SIGN/PLACE NAME SIGN/PLACE IDENTIFICATION SIGN. These Signs refer to boundaries or limits of a town or city. UN 1949 and some LN systems include the first named Sign. Place Identification Sign of UN 1968 refers to built up areas. International Road Federation includes City Name Sign from IAMM.

References: UN 1949, LN 1931, IAMM 1967, IRF 1984

PULL THRU SIGNS. This refers to a series of Signs for expressway and freeway interchanges exits that are replicated with the result of guiding or pulling motorists through a complex pattern of interchanges. The term appears in US MUTCD.

References: US MUTCD 1978, 1988

STREET NAME SIGN/STREET NAME PLATES. The sign follows standard shape and color configurations. They mark urban and rural roads and can include the name of the agency responsible for road and Sign. US MUTCD 1961 regards this Sign as a Direction & Destination Sign. The Sign displayed black symbols on white ground in US 1961 and white symbols on green ground in US 1971. Noble offers a slight variation with Street Name Plates.

References: US MUTCD 1961, 1971

SUPPLEMENTAL ADVANCE GUIDE SIGNS. US MUTCD 1971 added this Sign which gives destinations other than those of the Interchange Signs

Reference: US MUTCD 1971

### 1B3 Route Markers

#### a) Introductory Note & Overarching Terms

*The category of Route Markers for a variety of systems consists of one entity: The Route Marker. While there is variation in the actual number and letter symbols*



there is often just one form. However, a few national systems include a wide spectrum of Route Markers. This can create a problem if a system has a narrow range of such Devices yet a national system has many forms. It is possible that the many forms can be viewed as logical extension of the restricted forms of a system. The coverage for this study consists of Specialized Route Markers ( b ), and Route Marker Arrows and Tab Signs ( c ). Route Markers is retained in this study despite the decision of US MUTCD 2000 to drop the term for Route Markers in favor of Route Signs. The term Tab was employed extensively in the 1st edition for what are frequently termed Auxiliary Markers (... Signs). That practice has been reduced in this study though Tab is retained as a title for a type of Device even when not part of the name. US MUTCD 2000 and 2003 change Route Marker to Route Sign. However, Route Marker continues as the preferred term in this study though the newer term is included.

ROUTE MARKERS/ROUTE SIGN. Often this Device is a graphic symbol with a number that designates a route and possibly a few letters. A shield form is a common graphic symbol. The word Marker -- rather than the word Sign -- is historically a common element. Road systems in large, populous and politically complex nations may have entire series of Route Markers. The frequently employed shield form can vary from muted forms to full cut-out types. References: IAMM 1967, US MUTCD 1988 and earlier editions

ROAD IDENTIFICATION SIGNS. UN 1968 employs this term in place of Route Marker. UN 1968 does allow contracting parties to use a "route classification symbol" in place of rectangular-shaped Signs. Reference: UN 1968

ROUTE-INDICATORS. This term, from IAMM 1967, is seemingly a synonym for Route Marker (which IAMM 1967 also employs). Indicator is an infrequent term for T-M. Certain forms of older Railway Signals uses Indicator as a term. Reference: IAMM 1967

b) Specialized Route Markers Terms

AUXILIARY MARKERS/AUXILIARY SIGNS. These Markers accompany

Route Markers that denote a specific route. Auxiliary Markers denote junctions, route directions, turns, temporary, by-pass, alternate, business routes, detours. This study employed the Canadian term Tab for these Devices in the 1st edition. That was a mistake when applied to US forms. However, Tab does constitute a general term for that form of Marker.

Reference: Canada 1976, US MUTCD 1988, 2003

**BICYCLE ROUTE MARKERS.** This Marker is more akin to a Sign. It denotes roadways and portions of roadways assigned to bicycle usage. The Marker is applied to all road users: bicycles, motorists, pedestrians. It is found in Canada and in the US. US MUTCD 2000 retains Marker even though Route Markers are otherwise renamed Route Signs.

Reference: Canada 1976, US MUTCD 1988, 2000

**COMBINATION JUNCTION SIGN.** This Sign is a substitute for Junction Assembly when multiple Route Markers are required. In US MUTCD 1961 the Sign had a black ground, white rim, white words and insert, and black numbers. In US MUTCD 1971, and newer editions the ground color was changed to green.

Reference: US MUTCD 1961, 1971

**CONFIRMING ROUTE ASSEMBLY/REASSURANCE ASSEMBLY.** These Devices consist of a Cardinal Direction Marker (now Sign), and Route Marker (now Sign). The Confirming Assembly is positioned slightly past where numbered routes intersect. The Reassurance form employed in urban areas between intersections and past built-up areas.

References: US MUTCD 2000, 2003

**COUNTY ROUTE MARKER/COUNTY ROUTE SIGN.** The National Association of Counties (US) created this Marker to denote county roads and to distinguish the Marker from other forms. It is pentagonal-shaped with blue ground and yellow rim and symbols. It is first listed in US MUTCD 1971. US MUTCD 2003 replaces Route Marker with Route Sign.

Reference: US MUTCD 1971, 2003

**FOREST ROUTE MARKER.** This Marker denotes a US forest road. The Marker

has a brown ground, white symbols, and a parallelogram shape. It is included in US MUTCD editions and presumably from the US Forest Service.

Reference: US MUTCD editions

**INTERAMERICAN HIGHWAY ROUTE MARKER.** Route Markers under this heading denote the Central - American Highway - System. It is listed in IAMM 1967.

Reference: IAMM 1967

**INTERSTATE ROUTE MARKER/INTERSTATE ROUTE SIGN.** This Marker is of a cut-out shield form denoting highways of the US Interstate System. (Shields are of two forms: one is the image of a shield embossed on metal, and the other is an actual shield cut-out of metal sheeting).

Reference: US MUTCD 1961, 2003

**OFF-INTERSTATE BUSINESS LOOP MARKER/OFF-INTERSTATE BUSINESS SPUR MARKER.** Both versions are of the Interstate Marker cut-out version. They display a green ground with white words and numbers. The word "spur" or "loop" is added. The Markers denote an extension of the interstate route that branches off to a business center.

References: US MUTCD editions

**PAN AMERICAN ROAD ROUTE MARKER.** Route Markers under this heading mark the Panamerican-Highway-System.

Reference: IAMM 1967

**PROVINCIAL ROUTE MARKER.** These Markers are designed and provided by the Provinces of Canada. They are described in general terms in Canada 1976.

Reference: Canada 1976

**REASSURANCE ROUTE MARKER.** This Marker is very similar to the Confirming Route Marker. They are placed between urban intersections and outside built-up areas.

Reference: US MUTCD 1961

**ROAD MARKER.** A historic term that appears in the title of an AASHO publication in 1925.

Reference: Hawkins 7-92

**STATE ROUTE MARKER/STATE ROUTE SIGN.** This form of Route Marker is the most diverse form in the US with every state having such a Marker. A recommended form exists which is square in shape containing a white circle with the route numbers; only about seven states have adopted this model. The range of designs include that suggest Speed Limit Signs. TCDHB 1983 illustrates the several forms of State Route Markers. US MUTCD 2003 changes Route Marker to Route Sign.

Reference: TCDHB 1983, US MUTCD 1988, 2000

**TRAILBLAZERS.** This term refers to US practice though it may well be found in other systems. It is an assemblage consisting of a Route Marker, a Tab with the word "To," a Directional Tab and possibly a Cardinal Direction Tab. The assemblage is placed along urban and other roads, indicating directions to a numbered route. It is listed in US MUTCD 1961 and other editions.

Reference: US MUTCD 1961

**TRANS-CANADA ROUTE MARKER.** This Marker is found exclusively with Canada's Trans-Canada Highway.

Reference: Canada 1976

**TRUNK ROUTE MARKER.** An historic term that denotes the Route Marker for US main or trunk roads in the 1920s.

Reference: Sessions 1961

**US ROUTE MARKER.** These Markers are found with US Routes excluding highways of the Interstate System. The cut-out form was used in US MUTCD 1961 and earlier, but dropped out with US MUTCD 1971. The remaining version is a rectangle with black ground and white shield shape with numbers in black. The name of the state no longer appears in US MUTCD editions.

References: US MUTCD 1961, 1971

### c) Route Marker Tabs

General Note. US 1961 appears to add a great many specialized forms of Route Markers (termed Auxiliary Markers). While Canada 1976, a system akin to US practice in many respects, has few such Markers or so it seems. The seeming discrepancy is more a matter of semantics: various accoutrements and additions to basic Route Markers in Canada are termed Tabs not Markers while the US labels all of the limited scope entities as Markers though qualified by the word Auxiliary. The Canadian practice was followed in the 1st edition of this study. While that was a mistake the term Tab does constitute a general term for the auxiliary or qualifying form of Marker. Tabs can be viewed as appendages, extensions, supplements to primary Sign forms.

ADVANCE TURN ARROW TABS/ADVANCE TURN ARROW MARKERS/  
ADVANCE TURN ARROW AUXILIARY SIGN. These Tabs give advance information for a route that undergoes a turn or alter its direction. Tab and Route Marker usually display a horizontal format (in contrast to vertical arrangement of many other Tabs). This form is used in Canada and the US.

Reference: Canada 1976, US MUTCD 1988, 2000, 2003

BY-PASS TAB. This Tab accompanying a Route Marker indicates the branch of a main route which eventually reconnects with the main route. This form is employed in Canada.

Reference: Canada 1976

CARDINAL DIRECTION TAB SIGNS/CARDINAL DIRECTION MARKER/  
CARDINAL DIRECTION AUXILIARY SIGN. These Tabs indicate route directions (North, East, South, West). They are employed in Canada and the US.

Reference: Canada 1976, US MUTCD 1988, 2000, 2003

DIRECTIONAL ARROWS TABS/DIRECTIONAL ARROWS MARKERS/  
DIRECTIONAL ARROWS AUXILIARY SIGN. These Tabs denote a change in route due to a road alignment turn or direction change. The Tabs are arranged horizontally. See also Advance Turn Arrows.

References: Canada 1976, US MUTCD 1961, 1988, 2000, 2003

END MARKER/END AUXILIARY SIGN/END OF ROUTE TAB. This Tab indicates the End of a Route and accompanies the Route Marker.  
Reference: Canada 1976, US 1971, 2003

JUNCTION TAB SIGNS. This Tab, in conjunction with a Route Marker, denotes an approaching intersecting route.  
Reference: Canada 1976, US 1971

MARKERS FOR ALTERNATE ROUTES/ALTERNATE AUXILIARY SIGN/AUXILIARY SIGNS FOR ALTERNATIVE ROUTES. US 1961 includes a variety of Markers for Alternate Routes. Recent editions have changed Markers to Signs. These can be termed as of the Tab form since they have the form of a supplemental plate with a word form in close proximity to a Route Marker. They include:

TEMPORARY MARKER/TEMPORARY AUXILIARY SIGN. This indicates a non-permanent segment of regular route or a construction or emergency detour.

ALTERNATE MARKER/ALTERNATE AUXILIARY SIGN. This Tab indicates an official alternate for a portion of a route.

BYPASS MARKER/BY-PASS MARKER/BY-PASS AUXILIARY SIGN. This denotes a branch route through a city, congested or other area. The branch eventually rejoins the primary route. This is also listed with Tabs outside of this segment.

RELIEF MARKER. This form of Alternate Marker indicates a route that draws off vehicles from a congested route. US MUTCD 1961 gave this as an alternate name for the By-Pass Marker but was dropped by US MUTCD 1971.

BUSINESS MARKER/BUSINESS AUXILIARY SIGN. This Alternate Marker denotes a branch route into a commercial area.

DETOUR MARKER/DETOUR AUXILIARY MARKER SIGN. A temporary Marker denoting route temporarily closed by an emergency blocking or closing the standard route. Black on white ground motif of US 1961 is changed to black on orange in US 1971 and later. See Also Temporary Marker Tab. Now assigned to Temporary Traffic Control Devices in MUTCD 2000, 2003.

DETOUR SIGN. This Sign is a full synonym and alternate way of

indicating detours especially in emergencies. It displays an orange ground and black words within an arrow.

TRUCK ROUTE MARKER/TRUCK AUXILIARY SIGN. Device indicates an alternate route when appropriate for trucks to bypass regular numbered route.

References: USMUTCD, 1961, 1971, 1988, 2000, 2003

TAB SIGN. Overarching term for Route Marker Tabs in Canada.

Reference: Canada 1976

#### 1B4 Mileposts

General Note. Mileposts have had a long history yet they are ignored in a variety of Twentieth century systems. Noble 1946 provides many details on ancient, medieval and early modern Mileposts and Milestones in various forms. These terms are included since they represent a major component of TCDs. Quite possibly they continues in use even if officially overlooked.

DIRECTION STONES. This term from Noble is for Milestones in The Netherlands.

Reference: Noble 1946

KILOMETRE STONES. This term stems from French practice as recounted in Noble 1946. It is often an actual stone, white in color with pertinent information painted on the stone. Tops were painted according to the category of road. The stones give place names, distance, road numbers. They are pre-UN entities and current status is not known.

Reference: Noble 1946

LANDMARKS/GUIDE SIGN. Further terms from Noble 1946. He views various stones on or near roads as Landmarks and Guides to travellers.

Reference: Noble 1946

MARK/MARKER. Noble employs these terms in a very general sense. They too are historic in nature.

Reference: Noble 1946

**MARK STONES.** A historical term. It is found in early Britain and even before the use of Milliary/Milliaries.

Reference: Noble 1946

**MILE MARKER.** This term is employed by a USDOT brochure from 1979. It is identical with the Milepost. The brochure may possibly have employed that term in order to achieve symmetry with accompany Route Marker forms.

Reference: USDOT 1979

**MILEPOSTS/MILE POSTS (I).**

General Note. Traditional name for a narrow post or panel which indicates miles/kilometer from the beginning of route, political boundary, or other designated point. US MUTCD 1961 forms displayed black symbols on white ground or white symbols on either green or black ground. US MUTCD 1971 and newer editions stipulate white symbols on green ground. Mexico, according to IAMM 1967, combines Mileposts with Route Markers. They are similar to US forms except for a greater length for the more extensive message. A working group of ECAFE 1964 included Mileposts though they are not included in the 1964 Code. That form originates in India and is in the form of Route Markers and Distance & Direction Signs. Mileposts are apparently not included by other systems. Mile Marker and Reference Location Sign are similar or identical Devices which see. Mile Posts as two words comes from Blanchard.

Classification #: 4332

Form of Aid: Unlighted TCD Aid

Operations: Signboards attached to posts give basic information of distance to a given point.

Comments: One of a few Sign types in an earlier time. Now it is one of many forms. A variant form would be Milestones.

References: IAMM 1967, US MUTCD 1961, 1971, ECAFE 1964, Blanchard 1919

**MILEPOSTS (II).** Mileposts in the Roman version constitute a column-shaped



stone rather than a wood post. The term probably denotes a dual-message: a vertical Sign, and a lower-level Milestone form.

Reference: Noble 1946

MILESTONES. A historic term. Milestones range in age from ancient civilization types to 19th century forms. They are similar in message and meaning to US Mileposts. Noble sees the Milestone as stemming from the Roman “milia passum” with its meaning of 1000 paces made by human steps. Milestones were known as Milliaries and possibly were set up to mark distances between “Mansiones” (Posting Stations). Many were carved stones giving distance in numbers to the next mansione. The stones were columns and might be round, oval or square.

Reference: Noble 1946

REFERENCE LOCATION SIGN/INTERMEDIATE REFERENCE LOCATION SIGN. US MUTCD 2000 and 2003 replaced Route Marker with these terms. However, Route Marker is retained in the studies. The basic new term displays an integer (whole number) distance point. The intermediate form adds a decimal point between the Reference Location Signs. US MUTCD noted that Mileposts could be 1/10 or 1/20 miles apart but the information was not visible to motorists. Instead it may have been added to the reverse side of the post.

References: US MUTCD 1971, 2000, 2003

ROAD MARKER. Noble applies this term to a stone that, while not a Milestone, marks a road in some manner though the purpose is not clear.

Reference: Noble 1946

STONE MARKERS. Historic term from Noble. The actual use of these Markers is somewhat vague. It is possibly an alternate name for Milestone.

Reference: Noble 1946

## 1B5 Signs Giving General Information (SGGI)

Introductory Note. Two systems employ this term: ECAFE 1964 and UN GERSS 1952. However, neither system provides information on what constitutes that category. Other systems providing details on this form of Sign do not employ the terms of Signs Giving General Information. Instead, they use a variant term(s) for this category of Signs. But none of the variant terms encompasses the totality of these Signs as well as Signs Giving General Information. For that reason SGGI is adopted for the Database.

### a) Overarching Terms

DIRECTION, POSITION, OR INDICATION SIGNS. A second term from ECE 1995 that includes various words in a non-integrated manner. Many of these Signs are encompassed in the UN categories of Advance Direction, Direction, and Confirmatory Signs. Several new signs are also included. Indication Signs is an older overarching term for what Europeans now refers to as Informative Signs.

However, it now has a restricted meaning.

Reference: ECE 1995

INFORMATION, FACILITIES OR SERVICE SIGNS. ECE 1995 employs this less than integrated phrase for what UN 1968 refers to as Signs Giving Notice of Facilities Which May Be Useful to Road Users. Admittedly, an awkward phrase though it forms an overarching term.

References: ECE 1995, UN 1968

GENERAL INFORMATION & AUXILIARY SIGNS. This is the overarching term for SGGI signs in IAMM 1967.

Reference: IAMM 1967

GENERAL INFORMATION SIGNS. This category of Signs do not include guidance Signs in a direct way. The signs include political boundaries, geographical data and other information that refers to safety, general interest and transportation-related matters.

Reference: US MUTCD 2003

GENERAL MOTORIST SERVICES SIGNS/SERVICE SIGNS. Terms for Signs known as General Service Signs. US MUTCD 1971 has a general heading of Service Signs with the second term included in the description of the Sign.  
Reference: US MUTCD 1971

GENERAL SERVICE SIGNS. Signs for a wide range of traveler services including gas, food, lodging, medical services.  
Reference: US MUTCD 2003

INDICATIVE SIGNS. This is the overarching term for this category in UN 1949 though UN 1949 has only limited Signs in the category.  
Reference: UN 1949

INDICATION SIGNS/SIGNS GIVING INDICATIONS ONLY. LN 1931 and LN 1939 have only a few Signs corresponding to SGGI Signs and they are included in larger groups under these titles.  
References: LN 1931, LN 1939

OTHER SIGNS PROVIDING USEFUL INFORMATION FOR DRIVERS OF VEHICLES/SIGNS GIVING NOTICE OF FACILITIES WHICH MAY BE USEFUL TO ROAD USERS. UN 1968 encompasses SGGI entities within two groups headed by these terms.  
Reference: UN 1968

#### SIGNS GIVING GENERAL INFORMATION

Classification #: 4331

Form of Aid: Unlighted TCD Aid

Operation: Visual messages displayed through diverse alphanumeric and graphic symbol patterns.

Comments: A misnomer, Signs of General Interest (SOGI) was employed in the first edition. That term should have read Signs Giving General Information. It is possible that a garbled truncation of several terms may have taken place. The term General Interests Signs is a possible candidate.

References: ECAFE 1964, UN GERSS 1952

**OFF-ROAD FACILITIES SIGNS.** A major category in Canada. Signs indicate information and direction to off-road services and recreation facilities. They can be divided into three categories:

- RECREATION & ACCOMODATIONS
- ESSENTIAL SERVICES
- FOOD & FUEL

Reference: Canada 1976

**RECREATIONAL & CULTURAL INTEREST AREA SIGNS.** These are possibly not sub-overarching in nature though they represent a specific segment of a wide nature. The Signs includes parks, campgrounds, museums, art galleries. These Signs are divided into Symbol Signs, and Destination Guide Signs. The Signs employ white symbols and borders on brown ground. Symbol Signs are divided into these categories:

- GENERAL SERVICES
- MOTORIST SERVICES
- ACCOMODATIONS SERVICES
- LAND
- WATER
- WINTER

References: US MUTCD 1988, 2003

**ROUTING TO SPECIFIC DESTINATIONS.** Specific destinations in Canada require identification of routes. These include hospitals and airports. The term is a category reference.

Reference: Canada 1976

**MISCELLANEOUS INFORMATION SIGNS.** In Canada these Signs are those not otherwise listed. They include county boundaries, geographical features and lakes, and first aid facilities.

Reference: Canada 1976

**SERVICE SIGNS/SPECIFIC SERVICE SIGNS.** Term refers to Signs that gives business identification and directions information for various services as well as

approved attractions. A somewhat narrower category than it may appear.

Reference: US MUTCD 2003

#### b) Services

ACCOMODATIONS SIGN/HOTEL SIGN/MOTEL SIGN/LODGING SIGN. A variety of terms indicate the nearby presence of public lodging. Most newer systems include one of these Sign models. A graphic symbol representing a bed is employed by IAMM 1967 and UN 1968. Lodging for US MUTCD 1961 relied on word inscription; newer editions adopted graphic forms.

References: IAMM 1967, UN 1968, US MUTCD

AIRPORT SIGNS. This Sign indicates a nearby airport with a representation of a plane. It is a Service Sign not a Warning or Regulatory Sign. It is listed in IAMM 1967 and Canada 1976. US MUTCD 1971 includes a similar Sign. Canada 1985 adds a second form of this Sign displaying a small airplane (the original Sign included a representation of a commercial jet).

References: IAMM 1967, Canada 1976, Canada 1985, US MUTCD 1971

AMBULANCE STATION SIGN. Sign denotes ambulance service that meets specific standards including 24/7 operation and certified personnel.

Reference: US MUTCD 2003

BREAKDOWN SERVICE SIGN /MECHANICAL HELP SIGN/MECHANICAL SERVICES SIGN/ SERVICE STATION SIGN. The various terms employ a very similar graphic symbol: a large wrench bearing a resemblance to a pipe wrench. IAMM 1967 and 1981 add a directional arrow. Argentina displays two wrenches, without an arrow; a supplemental plate for mechanic service is included. Mexico displays a wrench of different form without other message.

References: IAMM 1967, 1971

CARPOOL INFORMATION SIGN. This Sign is posted on highways in areas where carpool sharing arrangements are available.

Reference: US MUTCD 2003

CHANNEL 9 MONITORED SIGN. Sign indicates radio service that provides emergency and travel-related information

Reference: US MUTCD 2003

EMERGENCY DIAL XXX SIGN. Sign for an emergency system for cellular phone communications.

Reference: US MUTCD 2003

EMERGENCY MEDICAL CARE SIGN. A Sign denoting an emergency medical facility.

Reference: US MUTCD 2003

EMERGENCY MEDICAL SERVICES SIGN. This Sign identifies medical facilities including hospitals, ambulances, emergency treatment centers that are designated as qualified installations.

Reference: US MUTCD 2003

FERRY BOAT SIGN. This Sign denotes ferry service and entrance. It displays a vehicle atop what appears to be a barge in water. It is a Service Sign rather than a Regulatory or Warning Sign.

Reference: IAMM 1967

FILLING STATION SIGN/FUEL SIGN/GAS SIGN/GAS STATION SIGN/FUEL (DIESEL) SIGN. These diverse terms refer to the same matter: a refueling facility for motor vehicles. The symbol is frequently a representation of a fuel pump. US MUTCD 1961 continued the practice of word inscriptions though that changed with the 1971 edition. Canada employs the term Fuel; US adds Gas while IAMM adds Station to Gas. UN 1949 and UN 1968 use Filling Station.

Seemingly there is no actual use of the term Petrol. IAMM adds an arrow while Argentina has its usual supplemental plate and no arrow. IAMM 1981 refers to "gasolina" while Argentina refers to "combustible". Ecuador and Mexico display a silhouette of a fuel pump without words or arrows. Canada 1985 adds a Fuel Sign (Diesel). It is very similar to the original Sign except for the letter "D" on the silhouette of the fuel pump.

References: US MUTCD 1961, US MUTCD 1971, Canada 1976, Canada 1985,

UN 1949, UN 1968

FIRST AID SIGN/FIRST-AID SIGN/FIRST AID STATION SIGN. This symbol bears a graphic image of a Christian cross for several system (Red Cross). UN 1949 and UN 1968 offers a Islamic Crescent (Red Crescent). UN 1968 employs a third symbol which is an Iranian Lion and Sun (Red Lion & Sun). IAMM has the standard Christian symbol with some variation of design and color in national exhibits. Argentina adds a supplemental plate. IAMM 1981 gives the hospital symbol (“H”) for Ecuador for first aid.

References: UN 1949, UN 1968, IAMM 1981

FOOD SIGN/RESTAURANT SIGN/REFRESHMENT OR CAFETERIA SIGN.

Restaurants are represented by what has become a nearly universal symbol: a crossed spoon and fork. But seemingly no knife. Argentina adds the usual supplemental plate and a portion of a plate with a knife and fork but no spoon. Ecuador has a knife and fork superimposed on a white plate serving as an insert within a square black sign plate. Mexico has a white knife and fork on square, black ground. The Refreshment or Cafeteria 1961 Sign of UN 1968 is represented by a coffee cup on saucer. US MUTCD 1961 continued to employ word inscriptions while newer editions moved to graphics. Canada 1976 employs a coffee cup and saucer; Canada 1985 adds a knife and fork.

References: IAMM 1981, UN 1968, US MUTCD 1961, Canada 1976, Canada 1985

HOSPITAL SIGN. This Sign indicates the nearby presence of a hospital. UN 1949 created a sign with the letter “H” accompanied by the word Hospital in the national language. This has become a nearly universal symbol. Various users have dropped the word including Canada 1976. ECE 1995 places this Sign in the Special Regulation category.

Reference: UN 1949, Canada 1976, ECE 1995

INTERNATIONAL SYMBOL OF ACCESSIBILITY FOR THE HANDICAPPED SIGN. This Sign is attached to General Service Signs to denote availability of ramps and restrooms for the physically handicapped.

Reference: US MUTCD 2003

LITTER CONTAINER SIGN. An advance Sign for turnouts and rest areas where containers are available.

Reference: US MUTCD 2003

NEXT SERVICES ... MILES SIGN. This Sign indicates distance to services rather than actual services. This Sign is from US MUTCD 1961.

Reference:

PHARMACY SIGN. Sign for a 24/7 qualified pharmacy within three miles of an interchange.

Reference: US MUTCD 2003

PHONE SIGN/TELEPHONE SIGN. This Sign denotes the nearby presence of a public pay phone. The graphic symbol for this phone is an obvious one: the handset of a conventional phone. US MUTCD 1961 employed a word inscription though a graphic symbolic representation was included in US MUTCD 1971. IAMM adds an arrow indicating location of the telephone. Argentina omits the arrows but adds a supplemental plate with the word telephone in Spanish.

Ecuador and Mexico omit the arrow.

References: US MUTCD 1961, 1971, IAMM 1967

RECREATIONAL VEHICLE SANITARY STATION SIGN. A Sign indicating location of facilities for dumping recreational vehicles waste.

Reference: US MUTCD 2003

TRAVEL INFO CALL 511 SIGN. Sign for information phone number for road conditions, weather and other data.

Reference: US MUTCD 2003

### c) Parking Signs

Parking Signs bears a strong resemblance to one another though under a variety of titles. Major titles and descriptions include:



AUTHORIZED PARKING PLACE SIGN/AUTHORIZED PARKING-PLACE SIGN. LN 1931 and LN 1939 have a Sign identical to later UN Signs though with a longer title. LN 1928 adds a hyphen.

References: LN 1928, LN 1931, LN 1939

PARKING SIGN. UN 1949, UN 1968 and other systems indicate Parking by the letter "P" without word inscriptions.

References: UN 1949, UN 1968

Some other Parking Signs are:

PARKING AREA SIGN. These Signs indicate the location of a parking area in an urban area. US MUTCD 1961 and later editions includes the word Parking heading with the letter "P" five times larger than the other letters and accompanied by an arrow indicating the location of the parking area.

Reference: US MUTCD 1961

PARKING ALLOWED SIGN. IAMM 1967 includes a Sign similar to the UN Sign. The Sign displays either the letter E or P according to the national language; an arrow is also included. Argentina omits the arrow and instead adds a supplemental sign referring to parking; Argentina follows this practice with many Guide Signs. Mexico omits the arrows and also lacks any words.

Reference: IAMM 1967

PARKING WITHOUT LIGHTS SIGN. OBS 1950 includes this Sign but few details are available.

Reference: OBS 1950

PARK & RIDE SIGN/PARK & RIDE NEXT RIGHT SIGN. In US MUTCD and newer editions this Sign indicates parking area where parking and public transport or car pool options are available. The variant version is found on Expressways.

Reference: US MUTCD 1978, 1988

d) Recreation Signs

**BOAT LAUNCH RAMP SIGN.** This Canadian 1985 Sign includes a display of a boat on trailer at a ramp on the edge of a body of water. Symbol and rim are white and the ground is brown.

Reference: Canada 1985

**CAMPING SIGN.** This Sign displays an illustration of a tent indicating the close proximity of a campsite. US also has a version of this Sign in graphic form.

References: IAMM 1967, UN 1968

**CAMPING OR CARAVAN SITE SIGN.** This Sign includes an illustration of a tent joining a representation of a small trailer. It indicates that both tents and travel trailers are permitted.

Reference: UN 1968

**CARAVAN SIGN.** This Sign indicates facilities near highways that are available for trailer site rentals. The Sign displays a representation of a small travel trailer.

Reference: UN 1968

**INFORMATION CENTER SITE SIGN.** This Sign appears in US MUTCD 1961 which includes a section on Rest and Information Signs. No other edition has that configuration and seemingly the sign has been reformulated or deleted.

Reference: US MUTCD 1961

**PICNIC SITE SIGN/PICNIC TABLE SIGN/PICNIC TABLES ... MILES SIGN/PICNIC AREA X KM (X MILES) SIGN.** These Signs indicate the nearby presence of the facility in question. Picnic Site is a UN term and includes representation of table and tree. Picnic Table Signs is from Canada 1976 and displays a detailed representation of a table. Picnic Tables ... Miles is from US MUTCD 1971 and is in a word form. The last named Sign appears in recent editions of MUTCD. Related Signs are under the heading of Roadside.

Reference: UN 1968, US MUTCD editions, Canada 1976

**REST AREA SIGN.** This Sign denotes a planned rest facility and is adjacent to a freeway or expressway. This US MUTCD 1961 Signs in a word inscription format. This is also true of newer editions.

References: US MUTCD 1961

ROADSIDE PARKING AREA ... MILE SIGN/ROADSIDE REST ... FEET SIGN. This Sign denotes rest areas near rural highways. These Signs are examples of Rest and Information Area Signs. These Signs are in an alphanumeric form.

Reference: US MUTCD 1961

ROADSIDE TABLE X KM (X MILE) SIGN/ROADSIDE PARK X KM (X MILE) SIGN. Terms in US MUTCD 2003 that seemingly give kilometers priority over miles.

Reference: US MUTCD 2003

SCENIC AREA SIGN. This advance Sign indicates scenic areas exiting from a highway or expressway on US highways. It is from US 1961 and appears in newer editions.

Reference: US MUTCD 1961

SCENIC OVERLOOK SIGN. US MUTCD 1978 and 1988 include this Sign. It follows the format of the Scenic Area and other related Signs. The Sign has two forms: an advance form indicating distance to the Scenic Area, and a more immediate form that omits distance but adds an arrow indicating locations.

References: US MUTCD 1978, 1988

TENT CAMP SIGN. This Canadian Sign closely resembles the Camping Sign of other systems which see.

Reference: Canada 1976

TRAILER CAMP SIGN/TRAILER CAMPING SIGN. This Sign is similar to the Caravan Site Sign which see. The Sign displays an image of a small trailer.

Reference: Canada 1976

TRAVEL INFORMATION SIGN. This Sign denotes a facility offering travel services. The Sign displays a large question mark.

Reference: Canada 1976

TROLLEY PARK SIGN. This Sign has an alternate title of Caravan Site. The graphic symbols closely resemble the Caravan Site Sign of UN 1968.  
Reference: IAMM 1967

VIEWPOINT SIGN. This Canadian Sign has a somewhat abstract appearance displaying two humans in pictograph form; one of whom is peering through a telescope. US MUTCD editions seem to lack a similar Sign yet Signs denoting Viewpoint and Vistapoint are commonplace in many areas.  
References: Canada 1985, US MUTCD editions

YOUTH HOSTEL SIGN. This Sign indicates nearby low cost lodging. A representation of tree and rustic house are displayed on the Sign.  
Reference: UN 1968.

Other Recreational and Cultural Interest Area Signs: A brochure of USDOT 1979 provides many more Signs than do MUTCD editions. These Signs have a brown ground, white symbols, white rim on square plates with curved corners. The plethora of Signs includes: Winter Recreation Area (snow flake), Marina (anchor), Viewing Area (camera), Rest Rooms (pictographs of woman and man; the woman is of the one-legged version), Food Service (egg, milk carton, apple, toast), Post Office (envelope), Mechanic (wrench), Ferry (car on barge with waves), First Aid (standard cross symbol in red), Parking (letter "P"), Swimming (pictograph of human and waves), Canoeing (human representation, canoe, waves), Motor Boating (boat, waves), Boat Launching Ramp (boat on trailer on ramp partly in water), Sail Boating (sail boat, waves), Ice Scating (human representation with skates), Water Skiing (human representation on skis in water), Snow Skiing (human representation with poles, skis), Fishing (fish, hook), Ranger Station (human representation, building, flag), Amphitheater (curved lines representing seating, rectangle representing stage), No Smoking (cigarette with red oblique bar), Picnic Area (picnic table), Camp Fire (pieces of crossed wood and flames).

e) Other Signs

ACCESS FOR HANDICAPPED SIGN. Canada 1985 includes this Sign which

displays a human in pictograph form in a wheel chair.  
Reference: Canada 1985

ADVANCE SIGNS-EXIT MOTORWAY. See Signs Notifying An Exit From Motorway.

ADVISED ITINERARY FOR HEAVY VEHICLES SIGN. A Sign that notifies trucks of advised itinerary. No details offered beyond that.  
Reference: ECE 1995

ADVISORY SPEED SIGN. This Sign is in the Informative Sign category rather than that of the Warning Sign Category. It advises appropriate speeds in various circumstances. The Sign has white symbols on a blue ground.  
Reference: ECE 1995

BEGINNING OF BUILT-UP AREA SIGN/END OF BUILT UP AREA SIGN. ECE 1995 has several versions of these Signs. The name of the area can be displayed in black letters on white ground and black rim, or in white letters on blue ground. The area can be graphically represented by silhouettes of a city with/without the name. The end of such areas can be represented by a red oblique bar over any of the previously described Signs.  
Reference: ECE 1995

BICYCLE ROUTE SIGN. This Sign alerts motorists and cyclists of an official bike route. It is white on green ground. It appears in US 1971 and newer editions.  
Reference: US MUTCD 1971

BUS STOP SIGN. This Sign includes a symbol of graphic representation of a bus indicating a scheduled stop.  
Reference: IAMM 1967

BUS STOP/TRAMWAY STOP. This Sign in UN 1968 displays an outline of the bus or tramway in black on white insert on blue ground. ECE 1995 regards these Signs as part of the Special Regulation category.  
Reference: UN 1968, ECE 1995

COUNTY SIGN. This Sign is from Canada 1976. It is the only system with a Sign under this name. It is in a word inscription form with the name of the County.

Reference: Canada 1976

CROSSOVER SIGN/ADVANCED CROSSOVER SIGN. US MUTCD 1988 includes this Sign. It indicates openings in the median of divided highways not marked by other Signs. It has white words and arrow on green with white rim. The Advanced Crossover form indicates distance to Crossover but without an arrow.

Reference: US MUTCD 1988

CUL-DE-SAC. This Sign from Canada 1976 indicates a street with a single entrance/exit. Dead End Street and No Outlet in US MUTCD 1971 are equivalents.

References: Canada 1976, US MUTCD 1971

ESCAPE LANE. This Sign from ECE 1995 is similar to the US Escape Ramp Sign. However, it is an Informative Sign not a Warning Sign. It displays a blue ground with white symbols except for a bar of white and red checks representing the escape lane.

Reference: ECE 1995

GENERAL SPEED LIMITS. This Sign from ECE 1995 is an Informative rather than a Regulatory Sign. It indicates general speed limits for a nation and may be posted near the national borders. The ground is blue and the name of the country and insert are in white. Speed limits for built-up areas, outside built-up areas, and expressways are presented in black within red circles.

Reference: ECE 1995

INFORMATION SIGNS (II). The name of this US MUTCD 1961 Sign may suggest a broad scope; however, it has a relatively restricted role. US MUTCD 1971 renamed this Sign category as General Information Signs which is more accurate. These Signs are not direct guidance Signs though they provide a variety

of information. The information can include political boundaries, geographical and cultural information. These Signs have diverse messages which are less tied to core TCD concerns. See also Information Signs (I), 1B1 (a).

References: US MUTCD 1961, US MUTCD 1971

**INFORMATION SYMBOL SIGN.** A Sign that identifies transportation or general information facility route.

Reference: US MUTCD 2003

**NATIONAL SCENIC BYWAY SIGNS.** Signs denoting roads designated National Scenic Byways or All-American Raods. Significance of roads can be based on archeological, cultural, historic, natural, recreational or scenic character.

Reference: US MUTCD 2003

**NO THROUGH ROAD.** This Sign indicates a road intended only for local use. The Sign has a blue ground, white bar representing a roadway and ended by a red box or bar.

References: UN 1968, ECE 1995

**MOTORWAY SIGN/END OF MOTORWAY SIGN.** These Signs denote the commencement of special operating rules on motorways as well as the end of these rules. ECE 1995 places these Signs in the Special Regulation category.

References: ECE 1995

**PEDESTRIAN ACTIVATED SIGNAL SIGNS.** This Sign, associated with Signals, is included by Canada 1976. It is listed in the Miscellaneous Information Signs for Canada and is in a word format.

Reference: Canada 1976

**PARKING AREA SIGNS.** Sign provides directions to public parking facility.

Reference: US MUTCD 2003

**PEDESTRIAN OVERPASS SIGNS/PEDESTRIAN UNDERPASS SIGNS.**

These ECE 1995 Signs portray a pictograph of a person descending a flight of steps in the first Sign, and a pictograph of a person ascending an incline in the

second sign.

Reference: ECE 1995

**POLICE SIGN.** Canada 1985 and US MUTCD 1988 include this Sign. It is a Guide or Information Sign with white letters and rim on blue ground.

Reference: Canada 1985, US MUTCD 1988

**PROTECTED PEDESTRIAN WALK SIGN.** This Sign denotes a walkway above or below motor vehicle level. The Sign displays a pedestrian walking between parallel dotted lines. It is seemingly found only with IAMM 1967.

Reference: IAMM 1967

**RADIO INFORMATION SIGNING.** This heading includes Radio-Weather Information Signs, and Radio-Traffic Information Signs.

Reference: US MUTCD 2003

**RADIO-TRAFFIC INFORMATION SIGNS/RADIO-WEATHER INFORMATION SIGN.** These Signs display white symbols and border on blue ground. The former sign is linked with traffic management systems. The latter Sign is employed where adverse weather is a common occurrence.

Reference: US MUTCD 2003

**RECREATION AREA SIGN.** Older editions of MUTCD included a brief entry for this Sign in contrast to the special segment in newer editions.

Reference: US MUTCD 1971, 2003

**REST & INFORMATION AREA SIGNS.** US MUTCD 1961 includes this Sign for a range of Sign types. The 1971 edition replaces that term with Rest Area, Scenic Areas and Recreation Area Signs.

Reference: US MUTCD 1961, 1971

**REST AREA SIGNS.** Signs denoting location of parking and restrooms.

Reference: US MUTCD 2003

**RECYCLING COLLECTION CENTER SIGN.** A Sign giving directions to a



recycling center.

Reference: US MUTCD 2003

RIVER & LAKE SIGNS. This Sign indicates River & Lake features that cross or parallel a numbered route.

Reference: Canada 1976

ROAD FOR MOTOR VEHICLES SIGNS/END OF ROAD FOR MOTOR VEHICLES. These Signs pertain to Roads not classified as motorways but having special rules. ECE 1995 places these Signs in the Special Regulation category.

Reference: ECE 1995

SANITARY FACILITY SIGNS. The name of this Sign suggests a wide range of facilities but the Sign symbols display only a representation of water running from a faucet in close proximity to a human hand. Argentina drops the arrow and adds a supplemental plate in word form. Venezuela displays a graphic of a large faucet. Mexico's version is a form of pictograph of faucet, water and hand.

Reference: IAMM 1967

SIGNS INDICATING NUMBER & DIRECTION OF TRAFFIC LANES SIGNS. These Signs are from ECE 1995. ECE provides three versions: arrows representing traffic lanes denoting a lane bifurcating into two lanes; a lane following a diagonal pattern adjusting to a straight direction, and lanes entering a divided highway zone.

Reference: ECE 1995

SIGNS INDICATING CLOSURE OF A TRAFFIC LANE. This ECE 1995 Sign has two versions: a white arrow representing a lane merging with an adjoining lane on a blue ground, and black arrows with one arrow ended by a black bar on a white ground.

Reference: ECE 1995

SIGNS NOTIFYING AN EXIT FROM A MOTORWAY. These Signs or Panels indicate the distance to an exit. The Panels are three in number of an elongated rectangular shape displaying diagonal white stripes on blue ground and with the

distance in kilometers. Advance Signs-Exit Motorway is a short-hand form probably coined by the compiler. It is included but only as an indicator for this correct form.

Reference: ECE 1995

**TOURIST INFORMATION CENTER SIGNS/WELCOME CENTER SIGNS.** These Signs are installed on freeways and expressways to indicate location of these centers.

Reference: US MUTCD 2003

**TOURIST-ORIENTATED DIRECTIONAL SIGNS (TODS).** These Signs display panel(s) identifying and giving directions to businesses that focus on tourist customers. TODS is a special segment of Guide Signs. US MUTCD 1988 lacks a hyphen while US MUTCD 2003 lacks TODS

References: US MUTCD 1988, 2003

**TRAFFIC SIGNAL SPEED SIGN.** This Sign is an Guide Sign in US MUTCD 1971 though listed as a Warning Sign in the 1961 edition. It displays the message of "Signal Set for \_\_\_MPH." It indicates a group of Signals coordinated for a given speed. Its color scheme is white on green in the 1971 edition and newer editions.

Reference: US MUTCD 1961, 1971

**TRAIL SIGNS.** Signs for providing information to road users on trails that have significance because of cultural, educational, educational import.

Reference: US MUTCD 2003

**TURN MARKER.** The term and shape (shield) strongly suggest a Route Marker. The message supports that notion yet the addition of the letter "L" or "R" denotes advance notice of an upcoming turn in the 1920s when the Sign was employed.

Reference: Hawkins 7-92

**WEIGH STATION SIGNING.** US Weigh Station Signs include forms:

ADVANCE SYMBOL SIGNS

ALL TRUCKS COMMERCIAL VEHICLES NEXT RIGHT SIGNS

EXIT DIRECTION SIGNS

GORE SIGN

These Signs have a green ground with white letters and numbers. One Sign, All Trucks Commercial Vehicles Next Right, has a black ground and white letters.

Reference: US MUTCD 1978

CASATC 1950 includes two public transit Signs though with few details documents:

SECOND STAGE

TRAM STOP NO. \_\_\_\_

US MUTCD 1971 includes a variety of Miscellaneous Signs with few details:

DO NOT THROW LITTER

EMERGENCY & AUTHORIZED VEHICLES ONLY

KEEP OFF WET PAINT

NO DUMPING ALLOWED

NO FISHING FROM BRIDGE

## CHAPTER TWO

### WARNING SIGNS

#### 1A Indexes

##### 1A1 Category Index

##### Introduction, Message Configurations & Overarching Terms (2B1)

###### a) Introductory Note & Overarching Terms

- Warning Signs

- Caution Signs

- Danger Signs/Danger Warning Sign

- Giving Warning of Danger

- Advance Warning Signs I, II

- Interactions of Vehicles With Other Moving Objects

- Non-Vehicular-Related Hazards Signs

- Prevention Sign

- Roadway-Related Hazards Sign

- Roadway & Environs Signs

- Traffic-Related Hazards Sign

- Warning Signs at Approaches to Intersections

- Warning Signposts

###### b) Message Configurations

##### Roadway Alignment Signs (2B2)

###### a) Introductory Note & Overarching Terms

- Curve Signs

- Dangerous Bends Sign/Bend Sign

- Dangerous Curves Sign

- Horizontal Alinement Changes Sign

- Roadway Alignment Signs

- Turns Sign

###### b) Specific Terms

- Bad Corner Sign

- Bends Sign/Left Bend Sign/Right Bend Sign/Single Bend to the Right,

- Left Sign
- Chevron Alignment Sign
- Combination Horizontal Alignment Sign/Advisory Speed Sign
- Combination Horizontal Alignment/Intersection Sign
- Curve, Left, Right, Sign/Single Curve, Left, Right Sign
- Curve Speed Signs
- Dangerous Corner Sign
- Dangerous Reverse Bend Winding to the Right, Left Signs
- Dangerous Sharp Turning to the Right.
- Double Bend, Left, Right Sign/Double Bend to the Right, Left Sign
- Large Arrow Sign/Directional Arrow/Bi-Directional Arrow
- Limited Sight Distance Sign
- Reverse Curve, Left, Right Signs
- Reverse Turn, Left, Right Signs
- Sharp Curve Sign
- Truck Rollover Sign
- Turn, Left, Right Sign/Single Turn, Left, Right Sign
- 270 Degree Curve Sign/270-Degree Loop Sign
- Sharp Turn Sign
- Winding Road Sign/Right Winding Road Sign/Left Winding Road Sign
- Roadway Conditions Signs (2B3)
  - a) Introductory Statements & Overarching Terms
    - Roadway Conditions Sign
    - Roadway Surface Conditions Sign/Special Roadway Features Signs/Road Surface Physical Conditions Signs
  - b) Specific Terms
    - Added Lane Signs
    - Bicycle Surface Condition Warning Sign
    - Bridge Ices Before Road Sign
    - Clearance Sign/Low Clearance Sign/Narrow Clearance Sign/Limited Width Sign
    - Bikeway Narrows Sign
    - Bumps Sign/Dips Sign
    - Checkerboard Sign
    - Cross-Drain or Dip Sign

Dangerous Shoulder Sign  
 Draw Bridge Sign/Hump Bridge Sign/Narrow Bridge Sign/Narrow  
 Structure Sign/One Lane Bridge Sign/Opening Bridge Sign/Swing  
 Bridge Sign  
 Gutter Sign  
 Loose Gravel Sign  
 Hill Sign/Dangerous Hill Sign/Dangerous Descent Sign/Dangerous Ascent  
 Sign/Dangerous Steep Descent to R or L Sign/Hill\_In\_Sign/Steep  
 Ascent Sign/Bike Hill Sign  
 Intersection Warning Signs  
 Lane Ends Sign  
 Right (Left) Lane Ends Sign  
 Lane Ends Merge Left (Right) Sign  
 No Traffic Sign  
 Pavement Drop-Off Sign  
 Pavement End Sign  
 \_\_\_% Grade Sign/Next\_\_\_Miles/\_\_\_% Grade [&]\_\_\_Miles Supplemental  
 Plates  
 Rough Road Sign  
 Road Narrows Sign/Narrow Road Sign/Carriageway Narrows  
 Signs/Pavement Narrows Sign/Lane Reduction Transition Sign/  
 Pavement-Width Transition Sign  
 Runway Truck Ramp\_\_\_Miles Sign/Runway Truck Ramp Sign  
 Sand/Gravel/Paved Supplemental Plates  
 Road Leads on to Quay or River Bank Sign  
 Road Narrows Dangerously Sign  
 Shoulder Signs  
 Soft Shoulder Sign  
 Low Shoulder Sign  
 Shoulder Drop-Off Sign  
 Speed Hump Sign  
 Truck Escape Ramp Sign  
 Truck Escape Ramp Sign  
 Runaway Truck Ramp Sign/Runaway Truck Ramp One Mile Sign  
 Uneven Lane Sign

- Uneven Road Sign
- Intersections Sign (2B4)
- a) Overarching Terms
  - Intersection Sign
  - Intersection Warning Sign
  - Concealed Road Sign/Hidden Signs, Plaques
  - Crossing Sign
- b) Specific Terms
  - Cross Road Sign/Cross-Road Sign/Crossroad Sign
  - Cross Street Sign
  - Crossing Sign
  - Dangerous Fork Sign
  - Dangerous T-Junction Sign
  - Delta Sign
  - Double Arrow Sign
  - Merge Sign/Merging Traffic Sign
  - Road Intersection Sign
  - Road in Which Another Road Ends at a Junction Sign
  - Road Junction Sign/Road Junction Sign
  - Side Road Sign
  - Signal Ahead Sign
  - Stop Sign Ahead Sign/Stop Ahead Sign
  - Successive Tees Sign
  - “T” Sign/T Intersection Sign/ T-Intersection Sign T-Symbol Sign
  - Traffic Circle Sign/Roundabout Sign
  - Two-Direction Arrow Sign
  - “Y” Sign/Y Intersection Sign/Y-Intersection Sign/Y-Symbol Sign
  - Yield Ahead Sign
- Intermittent Moving Hazards Signs (2B5)
  - Intermittent Moving Hazards Sign
  - Advance Crossing Sign/Crossing Sign
  - Advance School Warning Sign
  - Beware of Animals Sign
  - Bicycle Crossing Warning/Cyclists Entering or Crossing Sign
  - Cattle or Other Animal Crossing Sign

Cattle Crossing Sign  
 Children Sign  
 Congestion Sign  
 Cross Walk Sign  
 Crossing No Gates/Gates or Level Crossing Barrier/Level Crossing with  
 Barrier /Level Crossing Unguarded/Level Crossing/Guarded Level  
 Crossing/Level Crossing Guarded by Gate/Level Crossing Warning  
 Gate/Level  
 Crossing Stop Sign/Unguarded Level Crossing Sign/Unguarded Level-  
 Crossing Sign/Level-Crossing with Gates/Level-Crossing without  
 Gates/Railway Advance Warning/Railway Cross-Buck Sign/  
 Unprotected Railroad-Crossing/Protected Railroad Crossing  
 Deer Crossing Sign  
 Fallen Rock Sign/Falling Rock or Landslide Sign  
 Farm Machinery Sign  
 Grade Crossing Sign  
 Hazardous Condition Sign  
 High Water Sign  
 Deer Crossing Sign  
 Low Ground Clearance Plaque  
 Moose Crossing Sign  
 Motorized Traffic Sign  
 No Signal Sign  
 No Train Horn Sign  
 Pedestrian Crossing Ahead Sign/Pedestrian Crossing Sign/Pedestrian  
 Crossing Sign  
 Playground Ahead Sign/Playground Sign  
 Prepare to Stop Sign  
 Railroad Sign/Railway Level Crossing Sign  
 Range Cattle Sign  
 School Bus Stop Sign Ahead  
 School Crossing Warning Assembly/School Crossing Sign  
 School Crosswalk Sign  
 School Sign/School Ahead Sign/School Crossing Sign/School Zone Sign  
 School Speed Limits Sign



Slippery When Wet Bicycle Path Sign  
 Slippery When Wet Sign/Slippery Road Sign  
 Snowmobile Crossing Sign  
 Snowmobile Sign  
 Storage Space Sign  
 Train May Exceed 130 Kmh (80 Mph) Sign  
 Truck Crossing Sign/Truck Entrance Sign, Right, Left  
 Use Second Gear Sign/Use Lower Gear Sign/Trucks Use Lower Gear Sign  
 Vehicular Traffic Signs  
     Golf Cart Sign/Bicyclist Sign/Farm Vehicles Sign/Emergency  
     Vehicles/Horse-Drawn Vehicles Sign/Truck Crossing Sign  
 Construction & Maintenance Signs (2B6)  
     General Note  
     Construction & Maintenance Sign  
     Advance Road (Street) Construction Sign  
     Advance Closed Sign  
     Advance One Lane Road Sign  
     Advance Lane Closed Sign  
     Advance Detour Sign  
     Blasting Zone XXX Feet Sign/Turn Off 2-Way Radio Sign/End Blasting  
     Zone Sign  
     Road Work Sign/Road Works Sign  
     Road Repairs Ahead Sign  
     Road Work Ahead Sign/Road Works\_\_ Sign  
     Men Working Sign  
     US C & M Signs  
         Road Construction ... Feet Sign/Detour Ahead Sign/Road [Street]  
         Closed ... Feet/One  
         Lane Road ... Feet Sign/Men Working Sign/Fresh Oil Sign/Road  
         Machinery Ahead Sign/Shoulder Work Ahead Sign/Survey [Crew]  
         Party Sign/Flagger Sign/ Flagman... Feet Sign/Left [Right] Lane  
         Closed [Ahead] Sign/Men Working Sign/Single Lane ... Feet  
         Sign/Worker Sign/ Worker Sign/Blasting Zone\_\_Feet Sign/Off 2-Way  
         Radio Sign/End Blasting Zone Sign/End Construction Sign/Pilot Car  
         Follow Me Sign

- Canada C & M Signs
  - Roadside Diversion Sign/Detour Sign/Flagman Sign/Survey Crew Sign/Truck Entrance Signs
  - Construction Approach Warning Sign
  - Temporary TCD Sign/Temporary TCD Zone Devices
  - Temporary TCD Signs
- Other Hazards Signs (2B7)
  - a) General or Alternative Danger Signs
    - General Note
    - Alternate General Danger Sign
    - Alternate Sign
    - Dangers Other Than Those Indicated by Signs 1-6 Bis
    - General Danger Sign
    - Peligro Sign
    - Other Dangers Sign
  - b) Miscellaneous Sign
    - Additional Panels
    - Advance Traffic Control Sign
      - Stop Ahead Sign/Yield Ahead Sign/Signal Ahead Sign
    - Advisory Exit Speed Sign
    - Airfield Sign/Airplane Sign
    - Be Prepared To Stop Sign
    - Bicycle Crossing Warning Sign/Cyclists Entering or Crossing Sign
    - Bridle Path
    - Chevron/Chevron Alignment Sign
    - Cross-Wind Sign
    - Dead End Sign/No Outlet Sign
    - Divided Highway Ahead Sign
    - Divided Highway Sign/Divided Highway (Road) Sign
    - Divided Highway Ends Sign
    - Exit Sign
    - Factory Entrance Sign
    - No Passing Zone Sign
    - Notice Boards
    - Ramp Speed Sign

- Road Diversion Sign
- Rules of Road Sign
- Snowflakes Sign
- Speed Hump Sign
- Speed Reduction Sign
- Temporary Two-Way Ahead Sign
- Two-Way Traffic Sign
- Uneven Tracks Sign
- c) Supplemental Plates/Plaques
  - Advance Street Name Plaque
  - Advisory Speed Plate
  - Cross Traffic Does Not Stop Plaque
  - Dead End Plaque/No Outlet Plaques
  - Distance Plaque/Next Distance Plaque/Distance Ahead Plaque
  - Emergency Vehicle Sign/Emergency Signal Ahead Plaque
  - High-Occupancy Vehicle Plaque
  - Hill-Related Plaque
  - No Outlet Plaque
  - Photo Enforced Plaque
  - Share the Road Plaque
  - Supplemental Arrow Plaques
    - Advance Arrow Plaque/Diagonal Arrow Plaque/Directional Arrow Plaque
  - Supplemental Plaques
  - Traffic Circle Plaque
  - Truck Use Lower Gear Plaque

## 1A2 Alphabetical Index

Acute Angle Intersection: Concealed	102
Added Lane Sign	95
Additional Panels Sign	119
Advance Crossing Sign	107
Advance Detour Sign	115
Advance Lane Closed Sign	115
Advance One Lane Road Sign	115
Advance Road (Street) Construction Sign	115
Advance Closed Sign	115
Advance School Warning Sign	107
Advance Street Name Plaque	123
Advance Traffic Control Sign	119
Stop Ahead Sign	
Yield Ahead Sign	
Signal Ahead Sign	
Advisory Exit Speed Sign	119
Advisory Speed Plate	123
Advance Warning Sign, I, II	86
Airfield Sign/Airplane Sign	119
Alternative Sign	118
Alternative General Danger Sign	118
Bad Corner Sign	91
Bend Sign/Left Bend Sign/Right Bend Sign/Single	
Bend to the Right, Left Sign	91
Be Prepared to Stop Sign	120
Beware of Animals Sign	107
Bi-Directional Arrow: Large Arrow	92
Bicycle Crossing Warning Sign	107-108

Bicycle Surface Condition Warning Sign	95
Bike Hill Sign: Hill	98
Bikeway Narrows Sign	96
Blasting Zone XXX Feet Sign	116
Bridge Ices Before Road Sign	95-96
Bridle Path Sign	120
Bump Sign/Dip Sign	96
Carriageway Narrows Sign: Road Narrows	99-100
Cattle Crossing Sign	108
Cattle or Other Animal Crossing Sign	108
Caution Sign	86
Checkerboards	96
Chevron/Chevron Alignment Sign	120
Chevron Alignment Sign	91
Children Sign	108
Clearance Sign/Low Clearance Sign/Narrow Clearance/ Limited Width Sign	96
Combination Horizontal Alignment/Advisory Speed Sign	91
Combination Horizontal Alignment/Intersection Sign	91
Concealed Road Sign/Hidden Signs, Plaques	102
Congestion Sign	108
Construction & Maintenance Sign	114-115
Construction Approaching Warning Sign	117
Cross-Drain or Dip Sign	96-97
Cross Road Sign/Cross-Road Sign/Crossroad Sign	103
Cross Street Sign	103
Cross Walk Sign	108
Crossing No Gates Sign	108-109
Cross Traffic Does Not Stop Plaque	123
Cross-Wind Sign	120
Crossing Sign	103
Curves Sign	89-90
Curve, Left, Right Signs/Single Curve, Left, Right Sign	91-92
Curve Speed Sign	92

Cyclist Entering or Crossing Sign: Bicycle Crossing	107
Danger Sign/Danger Warning Sign	86
Dangerous Ascent Sign	98
Dangerous Bends/Bend Sign	90
Dangerous Corner Sign	92
Dangerous Curve Sign	90
Dangerous Descent Sign: Hill	98
Dangerous Fork Sign	103
Dangerous Hill Sign: Hill	98
Dangerous Shoulder Sign	97
Dangerous Steep Descent to Right, Left Signs: Hill	98
Dangerous Reverse Bend Winding to the Right, Left Sign	92
Dangerous Sharp Turning to the Left, Right Sign	92
Dangerous T-Junction Sign	103
Dangerous Other Than Those Indicated by 1-6 Bis Sign	118
Dead End Sign/No Outlet Sign	120
Dead End Plaque/No Outlet Plaque	123
Deer Crossing Sign	109
Delta Sign	104
Detour Sign: Roadside Diversion	117
Dips: Bumps	96
Directional Arrow: Large Arrow	92-93
Distance Plaque/Next Distance Plaque/Distance Ahead Plaque	123
Divided Highway Ahead Sign	120
Divided Highway Sign/Divided Highway (Road) Sign	120-121
Divided Highway Ends	121
Double Arrow	104
Double Bend, Left, Right Sign/Double Bend to the Right, Left Sign	92
Draw Bridge Sign/Hump Bridge Sign/Narrow Bridge Sign/Narrow Structures Sign/One Lane Bridge Sign/ Opening Bridge Sign/Swing Bridge Sign	97

Emergency Vehicle Sign/Emergency Signal Ahead Plaque	123-124
End Blasting Zone Sign: Blasting	116
End Construction Sign	114-15
Exit Sign	121
Factory Entrance Sign	121
Fallen Rock Sign/Falling Rock & Landslides Sign	110
Farm Machinery Sign	109
Flagger Sign/Flagman ... Feet Sign	116
Gates or Level Crossing Carrier Barrier: Crossing	108-109
General or Alternate Danger Sign	117-118
General Danger Sign	118
Giving Warning of Dangers Sign	86
Grade Crossing Sign	109-110
% Grade Plate	99
Guarded Level Crossing	108-109
Gutter (Uneven Road) Sign	97-98
Hazardous Conditions Sign	110
High Water Sign	110
Hill Sign	98-99
High-Occupancy Vehicle Plaque	124
Hill__in__ Sign: Hill	98
Hill-Related Plaque	124
Horizontal Alinement Changes Sign	90
Hump Bridge	97
Intersection Signs	102
Interaction of Vehicles with Other Moving Objects	87
Intersection Warning Signs	102
Intermittent Moving Hazards Signs	106-107
Lane Ends Sign	98
Lane Ends Merge Left (Right) Sign/Right (Left) Lane	

Ends Sign	
Lane Reduction Transitions Sign: Road Narrows	99-100
Large Arrow Sign/Directional Arrow/B-Directional Arrow	92-93
Left (Right) Lane Closed [Ahead] Sign	116-117
Level Crossing with Barrier: Crossing	108-109
Level Crossing Unguarded Sign: Crossing	108-109
Level Crossing Sign: Crossing	108-109
Level-Crossing Guarded by Gates	108-109
Level Crossing Stop Sign	108-109
Level-Crossing Warning Cross	108-109
Level-Crossing With Gates	108-109
Level-Crossing Without Gates	108-109
Limited Sight Distance Sign	93
Limited Width Sign: Clearance	96
Loose Gravel Sign	98
Low Clearance Sign: Clearance	96
Low Ground Clearance Plaque	110
Low Shoulder Sign: Shoulders	101
Men Working Sign	116-117
Merge Sign/Merging Traffic Sign	104
Messages	88-89
Moose Crossing Sign	110-111
Motorized Traffic Sign	111
Narrow Bridge Sign	97
Narrow Clearance Sign: Clearance	96
Narrow Road Sign: Road Narrow	99-100
Narrow Structure Sign	99
Next_Miles_% Grade/_Miles Supplemental Plates: % Grade	99
No Outlet Plaque	124
No Passing Zone Sign	121
Non-Vehicular-Related Hazard Sign	87



Notice Boards	121
No Signal Sign	111
No Traffic Signs	98
No Train Horn Sign	111
One-Direction Large Arrow Sign/Two-Direction Arrow Sign	100
One Lane Bridge Sign	98
One Lane Road ... Feet	114-115
Opening Bridge Sign	97
Other Hazards Sign	117
Other Dangers Sign	118-119
Pavement Drop-Off Sign	99
Pavement Ends Sign	99
Pavement Narrows Sign: Road Narrows	99-100
Pavement-Width Transition Sign	99-100
Pedestrian-Crossing Sign/Pedestrian Crossing Ahead Sign/Pedestrian Crosswalk Sign	111
Peligro Sign	118
% Grade/Next_Miles/% Grade [&]_Miles Supplemental Plates	99
Photo Enforced Plaque	124
Pilot Car Follows Me Sign	116-117
Playground Ahead Sign/Playground Sign	111
Prepare To Stop Sign	111
Prevention Sign	87
Protected Railroad Crossing	108-109
Railroad Sign/Railway Sign/Level Crossing Sign	111-112
Railway Advance Warning Sign	108-109
Railway Cross-Buck	108-109
Ramp Speed Sign	121
Range Cattle Sign	112
Reserved Bus Lane Sign/Reserve Lane Sign	112

Reverse Curve, Left, Right Sign	93
Reverse Turn, Left, Right Sign	93
Right Angle Intersection Sign: Concealed	102
Right Bend Sign: Bends	91
Right (Left) Lane Ends Sign	99
Road Construction ... Feet Sign/Detour Ahead Sign/Road [Street] Closed ... Feet Sign/One Lane Road...Feet Sign/ Men Working Sign/Fresh Oil Sign/Road Machinery Ahead Sign/Shoulder Work Ahead Sign/Survey [Crew] Party Sign/Flagger Sign/Flagman ...Feet Sign/Left [Right] Lane Closed [Ahead] Sign/Single Lane...Feet Sign/Worker Sign/Workers Sign/Blasting Zone_Feet Sign/Off 2-Way Radio Sign/End Blasting Zone Sign/ End Construction Sign/Pilot Car Follow Me Sign	116-117
Road Diversion Sign	121-122
Road Diversions Sign/Detour Sign/Flagmans Sign/ Survey Crew Sign/Traffic Enters Sign	117
Road in Which Another Road Ends at a Junction Sign	104
Road Intersection Sign	104
Road Junction Sign/Road Junctions Sign	104-105
Road Leads onto Quay or River Bank	100
Road Machinery Ahead Sign	116-117
Road Narrows Sign	99-100
Road Narrows Dangerously Sign	100
Road Repairs Ahead Sign	116
Roadside Diversion Sign/Detour Sign/Flagman Sign/ Survey Crew Sign/Track Entrance Sign	117
Road Work Sign/Road Works Sign	116
Road Work Ahead/Road Work__Ahead Sign	116
Roadway Alignment Sign	89
Roadway & Environs Signs	87
Roadway Conditions Sign	94-95
Roadway-Related Hazards Sign	87
Roadway Surface Conditions Sign/Special Roadway Features/Roadway Surface Physical Conditions Sign	95

Rough Road Sign	99
Roundabout Sign: Traffic Circle	106
Rules of Road Sign	122
Runway Truck Ramp Sign/Runway Truck Ramp	
One Mile Sign: Truck Escape	101
Runway Truck Ramp_Miles/Runway Truck Ramp Sign	100
Sand/Gravel/Paved Supplemental Plates: Truck Ramp	100
School Sign/School Ahead Sign/School Crossing Sign/ School Zone Sign	112
School Bus Stop Ahead Sign	112
School Crossing Warning Assembly/School Crossing Sign	112
School Crosswalk Sign	112
School Speed Limits Sign	113
Sharp Curve Sign	93
Sharp Turn Sign	94
Share The Road Plaque	124
Shoulder Signs	100-101
Soft Shoulder Sign/Low Shoulder Signs/Shoulder Drop-Off Sign	
Shoulder Work Ahead Sign	116-117
Side Road Sign	105
Signal Ahead Sign	105
Single Bend to Right, Left Sign: Bend	91
Single Curve, Left, Right Signs:	92
Single Lane ... Feet Sign	116-117
Single Turn, Left, Right Sign: Turn	94
Slippery Road Sign/Slippery When Wet Sign	113
Slippery When Wet-Bicycle Path Sign	113
Snowflakes Sign	122
Snowmobile Crossing Sign	113
Snowmobile Sign	113
Soft Shoulder Sign	100-101
Special Roadway Features Sign: Roadway Surface	95

Speed Hump Sign	101, 122
Speed Reduction Sign	122
Steep Ascent Hill Sign: Hill	98
Stop Ahead Sign/Stop Sign Ahead Sign	105
Storage Space Sign	113-114
Successive Turns Signs	105
Supplemental Arrow Plaque	124-125
Advance Arrow Plaque/Diagonal Arrow Plaque/ Directional Arrow Plaque	
Supplemental Plates/Plaques	125
Survey Crew Sign	114-115
Survey Crew/Truck Entrance Sign	117
“T” Sign/T Intersection Sign/T-Intersection Sign/ T-Symbol Sign	105-106
Temporary TCD/Temporary TCD Zone Device Sign	117
Temporary TCD Signs	117
Temporary Two-Way (Traffic) Ahead Sign	122
Traffic Circle Sign/Roundabout Sign	106
Traffic Circle Plaque	125
Traffic-Related Hazard Sign	87
Train May Exceed 130 KmH (80 MPH)	114
Truck Crossing Sign/Truck Entrance, Right, Left Sign	114
Truck Escape Ramp Sign	101
Truck Rollover Sign	93
Trucks Use Lower Gear Plaque	125
Turns, Left, Right/Single Left, Right Sign	93-94
Turn Off Two-Way Radio Sign: Blasting	116
Turns	90
270 Degree Curves Sign/270-Degree Loop Signs	94
Two-Direction Arrow Sign	106
Two-Way Traffic Sign	122
Uneven Lane Sign	101

Uneven Road Sign	101
Uneven Tracks Sign	122-123
Unguarded Level-Crossing/Unguarded Level Crossing	108-109
Unprotected Railroad-Crossing Sign	108-109
Use Second Gear Sign/Use Lower Gear Sign Truck Use Lower Gear Sign	114
Vehicular Traffic Signals	114
Golf Cart Sign/Bicyclist Sign/Farm Vehicle Sign/ Emergency Vehicle Sign/Horse-Drawn Vehicles Sign/ Truck Crossing Sign	
Warning Signs,	85-86
Warning Signs At Approach to Intersections Signs	87
Warning Signposts Signs	87
Winding Road Sign/Right Winding Road/Left Winding Road Sign	94
Worker Sign/Workers Sign	116-117
“Y”Sign/Y Intersection Sign/Y-Intersection Sign/Y- Symbol Sign	106
Yield Ahead Sign	106

## 2B Warning Signs

### 2B1 Introduction, Message Configurations & Overarching Terms

#### a) Introductory Note & Overarching Terms

The various TCD systems arrange Signs according to different principles. Some systems, such as UN GERSS 1952, focus on the individual Sign and offer only limited categories and other subdivisions. Canada by contrast, has produced a comprehensive system of subclasses and sections for all forms. UN 1968 provides a multi-level system of divisions and subdivisions for Regulatory Signs but it provides little in the way of an overarching structure. Because the Database is predicated on an overarching structure with various categories and other divisions it became necessary to look elsewhere for a structure. The resulting structure is a modified version of Canada's system. This structure places the various Warning Signs into one of a half-dozen categories. The identity and function of the Signs has not been lost even though the Signs have undergone rearrangement.

It may be noted that UN 1968 has more than one category for Warning Signs. All Signs for Intersections are an independent category divided into Regulatory and Warning sections; Level-Crossing Signs are a separate group. All other Warning Signs are considered together.

The structure for Warning Signs is simpler than for Regulatory Signs. Regulatory forms have four main sections and one of those segments has five subdivisions and one of those subdivisions has, in turn, five segments. Warning Signs has six basic segments with no further differentiation.

#### WARNING SIGNS.

Classification #: 431

Form of Aid: Unlighted TCD Aids

Operation: Messages presented through word and alphanumeric symbols displayed on Signboards.

Comments: This is the term of preference in the Western Hemisphere: IAMM, Canada, US. It is also employed by ECAFE 1964. Some past UK publications

also favor Warning Signs. The Database has adopted this usage.

References: US MUTCD editions,

CAUTION SIGNS. Hawkins 7-92 includes a reference to Caution Signs which stems from older US practice. Caution Signs were seemingly set apart from Warning Signs. However, Caution Signs include the diamond-shaped, black on yellow format associated with Warning Signs. By 1935 Caution Signs were part of the Warning Sign category in the US. This historical usage is more in the form of a subarching term and perhaps more appropriate in miscellaneous terms.

References: Hawkins 7-92

DANGER SIGNS/DANGER WARNING SIGNS. European sources favored the first term to and including UN 1949. The second is of a composite term employed by UN 1968 and also UN GERSS 1952 and the African system of CASATAC.

References: UN 1949, UN 1968, UN GERSS 1952, CASATAC 1952

GIVING WARNING OF DANGERS SIGNS. UK practice as outlined in Noble 1946 includes the curious amalgam of Warning and Informative Signs but also a schema in which Warning Signs are presented as Giving Warning of Dangers. The adjoining standard categories of Prohibitory, Informative, Mandatory in UK offer conventional terms.

Reference: Noble 1946

ADVANCE WARNING SIGNS (I). The 1944 UK Committee added Signs to be used in advance of a danger. The Signs were to be standard Warning Signs accompanied by a plate indicating distance to the danger. There are some present day Signs which approximate that approach in other systems.

Reference: Noble 1946

ADVANCE WARNING SIGNS (II). Seemingly this term refers to Signs for Construction, Maintenance and other Temporary TCD use. Yet it can appear as a broader term. US MUTCD 2000, 2003 include the term but Signs within it are not prefaced by the word Advance in older editions they are so prefaced.

References: US MUTCD 1988, 2000, 2003

**INTERACTION OF VEHICLES WITH OTHER MOVING OBJECTS.** A term in the 1st edition of Part E; it was replaced by Intermittent Moving Hazards in the 2nd edition and also in the 1st edition of this study.

Reference: Part E, 1st edition

**NON-VEHICULAR-RELATED HAZARDS SIGN.** A term of Jones and Hawkins. It is related to one division of the Traffic Related Category of MUTCD.

Reference: Jones and Hawkins 1997, US MUTCD 2000, 2003

**PREVENTION SIGN.** IAMM 1967 includes both Warning and Prevention Signs terms. They are seemingly employed interchangeably.

Reference: IAMM 1967

**ROADWAY-RELATED HAZARDS SIGN.** A term of Jones and Hawkins that is related to the MUTCD Roadway Related Category; it adds Signs to the basic terms.

Reference: Jones and Hawkins 1997

**ROADWAY & ENVIRONS SIGNS.** A term in the 1st edition of Part E that was replaced by the more conventional term of Roadway Alignment Signs.

Reference: Part E, 1st edition

**TRAFFIC-RELATED HAZARDS SIGN.** A term of Jones and Hawkins that is related to MUTCD Traffic Related Category. The term adds Sign to the core term.

Reference: Jones and Hawkins 1997

**WARNING SIGNS AT APPROACHES TO INTERSECTIONS.** A term from 1st edition of Part E that has been replaced by Intersection Signs.

Reference: Part E, 1st edition

**WARNING SIGNPOSTS.** An outline of British practice by Noble includes mention of Warning Signposts rather than Warning Signs. Signpost has the full meaning of Sign and not merely a wooden post on which Signs are fastened.

Reference: Noble 1946



## b) Message Configurations

Color, shape, graphic and word symbol arrangements are largely fixed for the various systems. These comments on messages refer to the several categories of Warning Signs except where noted. UN 1958 approves two Sign models: 1) The form associated originally with Europe consisting of an equilateral triangle with one point up. It has a white or yellow ground and red rim. 2) The "American" model with its diamond-shape and yellow ground and black rim. Word and graphic symbols for both models are black or dark blue.

UN GERSS 1952 and ECAFE 1964 add a third model: The double Sign consisting of a triangle above a rectangle or diamond-shaped plate from UK OBS 1950 and CASATC 1952. The ground color is yellow and the symbol is black or other dark color. Borders, if present, are black or another dark color. ECAFE 1964 permits a white ground with red borders.

IAMM 1967 specifies diamond-shaped Signs with yellow ground and black symbols and borders. Large Arrow and Railroad Crossbuck Signs are exceptions. The border of IAMM is similar to the rim of US and Canada.

UN 1949 employed equilateral triangles with one point up. The Priority Road Sign is an exception with its triangle with one point down. The Signs have a white or light yellow ground; borders are red with symbols that are black "or dark."

Canada 1976 employs diamond-shaped Signs with yellow ground. Borders and graphic and word symbols are usually black. Temporary Condition Signs display orange ground. The School Ahead Sign has a pentagon shape with white symbols and border. The borders are usually narrow and can be viewed as rims.

US MUTCD editions includes diamond-shaped Signs with black graphic and word symbols with yellow ground. Railroad Crossing Signs, Large Arrow Signs, Advisory Speed Plates are exceptions.

OBS 1950 two-part Signs employed white grounds with black symbols and borders for lower Signs. The upper Sign displayed a red border and white ground;

Sign shape was a triangle with one point up.

CASATC 1950 is similar to OBS except for a lower Sign ground color of yellow. Railway Crossbuck Signs have red borders and white ground. A variant South African form displays yellow border with black ground.

LN 1939 offers more flexible message configurations than more modern systems. Symbols can be either black or “very dark”; or white or “pale yellow.” Ground colors can be white, yellow, or “dark”. Border colors can be red for light ground colors or black or dark. Dark ground border colors are to be red.

While details are limited for LN 1926 some information is available. Grounds are to be dark, and the symbol colors to be light. Only the hollow Sign has a border. The LN 1928 Committee Report offered a variety of possibilities and refrained from mandating any single approach. Options included white symbols on dark blue ground; black symbols on white ground; black symbols on white ground with red border. The hollow triangle was to be red. LN 1931 does not include color patterns for Danger Signs. It can be noted that nearly all 1931 Signs are from 1926.

## 2B2 Roadway Alignment Signs

a) Introductory Note & Overarching Terms. This group of Signs has considerable coherence. Terms are limited even though a variety of road situations are included. These Signs include several forms. UN 1968 includes Bends but not Turns. Older European systems include a Turn Sign that can be described as a “Hairpin” Turn, and sometimes viewed as a Bend. UN GERSS 1952 and ECAFE 1964 include both Turns and Curves; the accompanying terminology includes only the overarching term. Western Hemisphere systems include both Curves and Turns. The term Bend is omitted. Bends and Curves appear to be synonyms though Turns are a separate entry.

CURVES SIGN. A possible sub-overarching term. IAMM includes all Signs involved with horizontal changes in alignment under this term. It suggests a less sharp, though immediate change. Other terms, including Bends and Turns, need to

be examined for a fuller meaning.

Reference: IAMM 1967

DANGEROUS BENDS SIGN/BENDS SIGN. UN 1968 employs Dangerous Bends or Bends for sub-overarching term. No names are given for the individual entities. Some members of the category are similar to those of UN GERSS 1952 and ECAFE 1964 though arrowheads are omitted.

References: UN 1968

DANGEROUS CURVES SIGN. This may appear to be a specific Sign title and that may be the case on occasion. But for ECAFE 1964 and UN GERSS 1952 it is a sub-overarching term for all forms of Curves. Those systems lack terms for individual entries in the category including the terms Bends and Turns.

References: ECAFE 1964, UN GERSS 1952

HORIZONTAL ALINEMENT CHANGES SIGN. A variety of terms are available for this category of Signs. This term comes from US MUTCD 1961. Yet an Canadian term, Roadway Alignment Sign, seems more adequate. Other terms include Curves (IAMM 1967) and Dangerous Curves (UN GERSS 1952, ECAFE 1964).

References: US MUTCD 1961, Canada 1976, UN GERSS 1952, ECAFE 1964

ROADWAY ALIGNMENT SIGNS.

Classification #: 4310

Type of Aid: Unlighted TCD

Operation: Messages displayed on Signboards. Display through color, alphanumeric, graphic symbols according to established patterns.

Comments: Canada 1976 employs this term for this category of Signs. The term encompasses the variety of Signs more adequately than other terms.

Reference: Canada 1976

URNS SIGN. This is a sub-overarching term yet it has a general character for a variety of Systems. It can be regarded as a synonym for other terms denoting changes in road alignment. It suggests a more sharp change in alignment as opposed to a more gradual, gentle change.

## b) Specific Terms

**BAD CORNER SIGN.** A historic term from US MUTCD 1935. It displayed black words on white ground.

Reference: *Hawkins 8-92*

**BENDS SIGN/LEFT BENDSIGN/RIGHT BENDSIGN/SINGLE BEND TO THE RIGHT, LEFT SIGNS.** The term Bend apparently first appears with LN 1926 then LN 1939. Both UN 1949 and UN 1968 employ Bend exclusively. Bend may suggest a gentle appearance similar to what is termed Curve in several systems. However, a general purpose Bend Sign in UN 1949 has the graphic symbol associated with Sharp Turn in older European systems; Sharp Turn has the visual appearance of a "Hairpin" Turn. Double Bends and Reverse Bends are separate terms.

Reference: UN 1926, LN 1939, UN 1949, UN 1968, UN GERSS 1952, ECAFE 1964

**CHEVRON ALIGNMENT SIGN.** This is a supplement or alternate to the Large Arrow Sign. The Chevron gives added attention to road alignment (horizontal) changes. It consists of bold chevrons in black on yellow ground embossed on rectangular-shaped plates.

References: US MUTCD 1978, 1988, Canada 1985

**COMBINATION HORIZONTAL ALIGNMENT SIGN/ADVISORY SPEED SIGN.** Turn or Curve Sign is combined with Advisory Speed Plaque indicating upcoming road condition with appropriate speed recommendation.

Reference: US MUTCD 2000

**COMBINATION HORIZONTAL ALIGNMENT SIGN/INTERSECTION SIGN.** Turn or Curve Sign with Cross Road or Side Road Sign. Signs indicate the situation of an intersection within curve or turn.

Reference: US MUTCD 2000

**CURVE, LEFT, RIGHT SIGN/SINGLE CURVE, LEFT, RIGHT SIGN.** Curve,

as already noted, is employed in Western Hemisphere systems and ECAFE 1964, UN GERSS. It indicates a change in alignment that, while not sharp, is immediate.

References: US MUTCD editions, Canada 1976, IAMM 1967, ECAFE 1964, UN GERSS 1952

**CURVE SPEED SIGN.** A Sign that advised recommended speed on curves.

Reference: US MUTCD 2000

**DANGEROUS CORNER SIGN.** Hawkins includes this Sign from the 1930 Manual. It is in a word form with black letters on white.

References: Hawkins 7-92

**DANGEROUS REVERSE BEND WINDING TO THE RIGHT, LEFT SIGN.** These Signs from CASATC 1950 are similar in design to the Double Bend Signs of UN 1968.

Reference: CASATC 1950

**DANGEROUS SHARP TURNING TO THE RIGHT SIGN.** This Sign from CASATC 1950 is somewhat similar to Reverse Turn Signs of Western Hemisphere systems. Apparently there is no comparable Sign to the left.

Reference: CASATC 1950

**DOUBLE BEND, LEFT, RIGHT SIGNS/DOUBLE BEND TO THE RIGHT, LEFT SIGNS.** League of Nations and UN 1968 employ the word "Double" for Signs with multiple bends/curves/turns. The graphic symbol shows a very dramatic and sharp double change in alignment; the actual road condition could have several such changes in close proximity.

References: LN 1939, UN 1968

**LARGE ARROW SIGN/DIRECTIONAL ARROW/BI-DIRECTIONAL ARROW.** These Signs indicate a sharp alignment change and can be employed to warn of impending curve or turn; they can also be used at T and Y intersections that constitute hazards. IAMM speaks of Directional and Bi-Directional Arrows. This Sign is found in IAMM 1967, US MUTCD editions. The IAMM and US

Signs are very similar though the titles differ. Older US MUTCD editions spoke of one Large Arrow with either a double arrow or a single arrow. The Signs were employed for curves and for T-intersections. New editions speak of Large Arrow Signs for both intersections and alignment. However the term for alignments has a single headed arrow. And intersections include only a double-headed Arrow.  
References: IAMM 1967, US MUTCD editions

LIMITED SIGHT DISTANCE SIGN. This Sign indicates the existence of curves where visual distance for stopping is inadequate. A supplemental plate listing the speed limit can be added.  
Reference: US MUTCD 1978

REVERSE CURVE, LEFT, RIGHT SIGNS. There are two forms: Right Reserve Curve Sign, and Left Reserve Curve Sign. This Sign is largely confined to the Western Hemisphere. Reverse has the same or similar meaning to "Double" in UN and LN practice. A Reverse Curve Sign indicates curves going in opposite directions and are close together.  
Reference: US MUTCD editions

REVERSE TURN, LEFT, RIGHT. This Sign has two forms: Right Reserve Turn Sign or Left Reserve Turn Sign. Similar to previous Sign except that it refers to two turns or one turn and one curve. Roadway features are in close proximity.  
Reference: US MUTCD editions

SHARP CURVE SIGN. Hawkin's essays on MUTCD include early US Signs. Sharp Curve is from Idaho in the 1920s. It is more the case of a variant name than a new form of horizontal road alignment Sign.  
Reference: Hawkins 7-92

TRUCK ROLLOVER SIGN. A Warning Sign for vehicles with high center of gravity when travelling on curves, turns of possible risk potential.  
References: US MUTCD 2003

TURN, LEFT, RIGHT SIGNS/SINGLE, LEFT, RIGHT SIGNS. Terms employed in the Western Hemisphere and also ECAFE 1964. Turns denote sharper curves.

Canada 1976 employs a Turn Sign of a less sharp design. It is positioned between Turns and Curves though it remains within the Turn configuration.

Reference: US MUTCD 1961, Canada 1976, ECAFE 1964

270 DEGREE CURVE SIGN/270-DEGREE LOOP SIGN. Two versions of one Sign appear in MUTCD. Signs of graphic design depict extreme curve such as are found in cloverleaf interchange.

Reference: US MUTCD 2003

SHARP TURN. Most older European systems included this sign which resembles a “hairpin” turn. UN 1949 has a Bend Sign of the same design.

Reference: LN 1931, UN 1949

WINDING ROAD SIGN/RIGHT WINDING ROAD SIGN/LEFT WINDING ROAD SIGN. This Sign indicates that at least three curves or turns are in close proximity for IAMM 1967. The Sign represents at least five curves for employment of the Sign in Canada and the US. Both have similar descriptions for the Sign. Both systems refer to Right Winding Road Sign and Left Winding Road Sign rather than Winding Road Sign with left and right forms. GERSS/ECAFE include the Sign within the Dangerous Curve category though there is no name for this specific form.

References: IAMM 1967, Canada 1976, US MUTCD editions, GERSS 1952,

## 2B3 Roadway Conditions Signs

a) Introductory Statements & Overarching Terms. It is possible to subdivide this segment of Warning Signs into many small pieces. However, numerous small fragments have limited value since the Signs less easily cohere in that state. Instead, various forms of these Signs are grouped into informal sections under the heading of Roadway Conditions. It can be debated what title this category should be given. Roadway Features would be a possible title as well as Roadway Conditions. However, Roadway Conditions is more inclusive and may more easily include both features and changes.

ROADWAY CONDITIONS SIGN.

Classification #: 4311

Form of Aid: Unlighted TCD

Operation: Messages displayed on Signboard. Visual display through color, symbols which are often graphic symbols but can include alphanumeric forms.

Comments: Term incorporates aspects of terms from Canada, IAMM and US. The following terms headed by Roadway Surface Conditions elaborates its foundations.

References: Canada 1976, IAMM 1967, US MUTCD editions

ROADWAY SURFACE CONDITIONS SIGN/SPECIAL ROADWAY FEATURES SIGN/ ROAD SURFACE PHYSICAL CONDITIONS SIGN. US 1961 employs Roadway Surface Conditions for a general name while Canada 1976 has Special Roadway Features. IAMM 1967 describes this category as "Signs -- indicating physical conditions of road's surface." Other systems often lack appropriate subdivision terms. The Database term of Roadway Conditions is an adaption of all three terms with emphasis on US 1961 and IAMM 1967.

References: US 1961, Canada 1976, IAMM 1967

#### b) Specific Terms

ADDED LANE SIGN. This Sign notifies motorists of the convergence of roadway without merging of traffic. The Sign displays an image of two roads converging flanked by a straight arrow and by a curved arrow that becomes straight.

Reference: US MUTCD 1988

BICYCLE SURFACE CONDITION WARNING SIGN. Sign indicates road or shared-use path situation that creates potential loss of control conditions.

Reference: US MUTCD 2000

BRIDGE ICES BEFORE ROAD SIGN. Sign indicates winter conditions before Bridge. Manitoba also includes a similar sign though under description of message instead of formal name. It displays a skidding car and thermometer accompanied by letter and number symbols.

Reference: US MUTCD 2003, Manitoba 2007



CLEARANCE/LOW CLEARANCE SIGNS/NARROW CLEARANCE SIGN/LIMITED WIDTH SIGN. Low Clearance Signs indicate limited space overhead for vehicles especially large trucks. Limited Width and Narrow Clearance Signs indicate narrowness of driving lanes or roadway. Symbols are frequently in feet or metres within arrows indicating clearance. One or more of these Signs are found in IAMM 1967, ECAFE 1964, UN GERSS 1952, Canada 1976, US MUTCD 1961. But not in UN 1968 and older European systems. Mexico has a variant form that includes a silhouette of a truck within arrows that indicates reduced horizontal or vertical clearance. Supplemental plates give the dimensions of the limited clearance. US forms evolved from words to symbol/word forms and to supplemental plates with words. US MUTCD 1978 dropped the plates.  
References: IAMM 1967, ECAFE 1964, UN GERSS 1952, Canada 1976, US MUTCD 1961

BIKEWAY NARROWS SIGNS. This US MUTCD Sign is in a word form and analogous to the Road Narrows Sign.  
Reference: US MUTCD 2000, 2003

BUMPS SIGN/DIPS SIGN. These are commonly employed terms and more specific than Uneven Road or they simply replace Uneven Road. The graphic symbol for Bump often manifests a single bump. The Dip symbol can have the image of a concave depression. US MUTCD 1961 employs word inscriptions though newer editions have graphic images. A variety of systems includes these Signs.  
References: US MUTCD editions, IAMM 1967, ECAFE 1967, UN GERSS 1952

CHECKERBOARD SIGNS. Terms includes a group of Signs employed in Canada. They denote end of road, major horizontal changes in alignment, and T-intersections. Some forms of the Signs include arrows while the termination form has checks without an arrow. They follow a yellow and black color scheme.  
Reference: Canada 1976

CROSS-DRAIN OR DIP SIGN. The Sign is a double-sign (familiar to OBS) and the graphic appearance is closer to a Bump Sign than a Dip Sign.

Reference: CASATC 1950

DANGEROUS SHOULDER SIGN. ECE 1995 adds this Sign of a graphic representation of a tilted car with one wheel on solid and one on unstable ground.

Reference: ECE 1995

DRAW BRIDGE SIGN/HUMP BRIDGE SIGN/NARROW BRIDGE SIGN/NARROW STRUCTURE SIGN/ONE LANE BRIDGE SIGN/OPENING BRIDGE SIGN/SWING BRIDGE SIGN. This amalgamation of different kinds of Signs may overly conflate a diverse topic. UN 1968 includes the Swing Bridge Sign represented by a graphic image of a single open span. The Draw Bridge Sign displays a double span as does Canada's Opening Bridge Sign. The former is from IAMM 1967 and the later from UN GERSS 1952. Mexico has a single span representation. The Hump Bridge Sign of OBS employs the graphic symbol of the Bump Sign. Manitoba has Narrow Bridge for the Sign that Canada 1976 termed Narrow Structure

Narrow Bridge, Narrow Structure and One Lane Bridge Signs all denote narrow passageways for vehicles rather than bridges that open. Only a limited number of systems include these Signs. The US formerly employed word inscriptions while other systems displayed graphic symbols. US MUTCD 1971 added a graphic image. Mexico in IAMM 1981 has a similar Sign. Canada 1976 broadens the concept by speaking of Narrow Structure but the graphic imagery is similar to that of IAMM 1967 and UN GERSS 1952. It can refer to culverts, subways, overpasses that decrease the width of the roadway. Educational Tabs with words in Canada 1976 were a transition feature from word to graphic symbols and therefore had a temporary nature.

References: UN 1968, IAMM 1967, UN GERSS 1952, Canada 1976, US MUTCD 1971

GUTTER SIGN. LN 1926 employs this for the English-language term though the imagery is the same as that for Uneven Road in other systems. However, the French word "Cassis" in 1926 is employed in Paris 1909 along with Uneven Road as the English translation.

Reference: LN 1926

LOOSE GRAVEL SIGN. This Sign refers to situations where gravel may be thrown up by passing vehicles.

References: UN 1968, US MUTCD 1967, IAMM 1967

HILL SIGN/DANGEROUS HILL SIGN/DANGEROUS DESCENT SIGN//DANGEROUS ASCENT SIGN/DANGEROUS STEEP DESCENT TO R OR L SIGN/HILL\_IN\_SIGN/STEEP ASCENT SIGN/BIKE HILL SIGN. The variety of names refers to a relatively narrow range of messages. However, the range of messages can be expanded by Sign models and variants. Hill can be a unitary sign that centers on descents but it can also branch out into descent and ascent forms. UN 1968 has separate Dangerous Descent and Steep Ascent Signs. US MUTCD 1978 includes a Steep Descent for Bicycle Signs. It displays a bike on black triangle signifying a sharp descent. Canada 1985 adds a Bike Hill Sign.

A graphic symbol displaying a black triangle surmounted by an auto facing upwards or downwards is the most common form of this Sign. UN 1968 includes versions of an auto, a percentage figure, or a ratio figure. US 1961 has only a word form. Canada 1976 includes a graphic symbol with a educational tab supplement with word form; that was dropped in 1985. US MUTCD 1971 followed Canadian practice. Older systems lack any Hill Sign.

References: UN 1968, US MUTCD 1961, 1971, Canada 1976, Canada 1985

LANE ENDS SIGN. A graphic symbol Sign that marks end of Lane. The older name was Lane Reduction Sign in US MUTCD 1988. The term also is a category term that includes two other Signs:

RIGHT (LEFT) LANE ENDS SIGN. This Sign can serve as advance for the Lane Ends Signs or for the:

LANE ENDS MERGE LEFT (RIGHT) SIGN. This Sign gives an added warning or underlines the need to merge.

References: US MUTCD 2000, 2003

NO TRAFFIC SIGNS. Sign employed on low-volume roads without pavement and where Traffic Signs are lacking.

Reference: US MUTCD 2000

PAVEMENT DROP-OFF SIGN. Canada 1985 includes this Sign but apparently no other system does so. It has an orange ground, black symbols and indicates an abrupt end to the pavement edge.

Reference: Canada 1985

PAVEMENT ENDS SIGN. This Sign indicates the extent of paved road for a given route. Some newer systems include it. Canada offers a graphic symbol with an image of pavement/unpaved roadway. US MUTCD 1961 includes a word description but the 1971 editions uses a graphic representation.

References: Canada 1976, US MUTCD 1961, 1971

\_\_% GRADE/NEXT \_\_MILE/ \_\_% GRADE [&] \_\_MILES SUPPLEMENTAL PLATES. These Plates can be added to Hill Signs in the US.

Reference: US MUTCD 1978

ROUGH ROAD SIGN. This Sign denotes a road in poor condition. The graphic symbol is of three or more bumps. UN GERSS 1952 includes it though UN 1968 does not.

References: UN GERSS 1952, UN 1968

ROAD NARROWS SIGN/NARROW ROAD SIGN/CARRIAGEWAY NARROWS SIGN/ PAVEMENT NARROWS SIGN/PAVEMENT-WIDTH TRANSITION SIGN/LANE REDUCTION TRANSITION SIGN. A variety of these terms refer to a closely focussed Sign type. Both UN 1949 and UN 1968 refer to Carriageway Narrows Signs. Canada 1976 refers to Pavement Narrows (Road Narrows, Road Narrows L/R in Canada 1985) while other systems employ Road Narrows. The graphic symbol is of two designs: UN GERSS 1952 and ECAFE 1964 show two thick lines wide at one end and narrow at the other which represents reduction of lanes. The more common form displays black lines outlining a road with multiple lanes that eliminates a lane in one direction. Surprisingly, the US in 1961 employed the graphic image though with rows of dashes to denote which lane kept/lost a lane. US MUTCD 1971 redesigned the Sign and dropped the dashes. US MUTCD 1978 renamed the Sign the Pavement-Width Transition Sign which is a literal description of the Aid. US MUTCD 1988

changed that name to Lane Reduction Transition Sign. US MUTCD 1961 also included a word inscription Sign under the heading of Road Narrows though that meant a road less than two-lanes in width rather than an elimination of a lane.

OBS 1950 employed one Sign form for Narrow Bridge or Road Narrows. It followed the usual double-Sign approach with a symbol identical to that of UN GERSS 1952 and ECAFE 1964. It included an appropriate word inscription. Narrow Road Sign from US MUTCD 1948 has the same meaning as Road Narrows. References: UN 1949, UN 1968, UN GERSS 1952, ECAFE 1964, US MUTCD 1961, 1971, 1988

RUNWAY TRUCK RAMP \_\_\_ MILES SIGN/RUNWAY TRUCK RAMP SIGN. These Signs denote escape ramps for runaway trucks on steep descents. References: US MUTCD 1978, 1988

SAND/GRAVEL/PAVED SUPPLEMENTAL PLATES. These can be added to the above Sign.

ROAD LEADS ON TO QUAY OR RIVER BANK SIGN. This Sign indicates close proximity to water or a dangerous water situation near a driving lane. Reference: UN 1968

ROAD NARROWS DANGEROUSLY. A term from CASATC 1950. Possibly a term similar to other Road Narrows Signs, or a Sign designating an especially narrow road. Reference: CASATC 1950

SHOULDER SIGNS. A Sign category that includes Soft Shoulder Sign, Low Shoulder Sign and Should Drop-Off Sign.

SOFT SHOULDER SIGN. This Sign gives warning of soft shoulder conditions. It displayed a word inscription in older MUTCD editions.

LOW SHOULDER SIGN. Signs indicates that the shoulder is less than three inches below driving lane.

SHOULDER DROP-OFF SIGN. Sign denotes a shoulder that is more than three inches below driving lane. Reference: US MUTCD editions

SPEED HUMP SIGN. Sign denotes “vertical deflection” whose function is to slow down traffic.

Reference: US MUTCD 2003

TRUCK ESCAPE RAMP SIGN. Sign is more of a category of Signs. They are placed before road grade, ramp. They include:

TRUCK ESCAPE RAMP SIGN

RUNAWAY TRUCK RAMP SIGN/RUNAWAY TRUCK RAMP ONE MILE SIGN.

A Regulatory Sign, Runaway Vehicles Only, can be added.

References: US MUTCD 2000, 2003

UNEVEN LANE SIGN. Sign for construction and maintenance areas indicating adjoining lanes are at different elevations.

Reference: US MUTCD 2000

UNEVEN ROAD. This term is a general term and can be replaced by more specific terms such as Bumps and Dips according to UN 1968. Uneven Road is represented by a graphic symbol of two bumps. Other systems have a similar term and image. The image denotes roughness in pavement, bumps, ridges, drain lines across roads and other impediments.

Reference: UN 1968

## 2B4 Intersections

### a) Overarching Terms.

#### INTERSECTION SIGNS

Classification #: 4312

Type of Aid: Unlighted TCD Aid

Operation: Signboard displays appropriate messages through color, design and symbols which are often graphic.

Comments: UN 1968 employs Intersection Signs as a basic category. However, that term includes both Warning and Regulatory Intersection Signs. IAMM uses Crossing Signs as a general term. Seemingly no system uses Intersection Signs as a major category only for Warning Signs under this heading. US MUTCD speaks of various situations where Warning Signs are employed. Canada has a section for intersections amongst many other sections. The term does encompass a broad range of such Signs and is employed here.

References: Canada 1976, US MUTCD editions

**INTERSECTION WARNING SIGN.** An alternate term for the primary term. It is a category term that includes Side Road, T-Symbol, Y-Symbol, Traffic Circle Signs.

Reference: US MUTCD 2003

**CONCEALED ROAD SIGNS/HIDDEN SIGNS, PLAQUES.** Canadian term for a sub-grouping of Signs. It has the meaning of Signs not visible to motorists approaching an intersection. Manitoba and Ontario refer to Hidden Signs at least as description of the workings of those Signs and Plaques. Canada 1976 gives images but not names for members of this class. The 1985 Sign Pattern Manual provides names for some forms:

Right Angle Intersection Signs

Acute Angle Intersection Signs

References: Canada 1976, Canada 1985

**CROSSING SIGN.** This term has two meanings. The IAMM version refers to Signs at junctions, cross roads, crossing. US MUTCD Advance Crossing and Crossing Signs refer largely to intermittent movements of pedestrians, animals, trucks, etc. Such intrusions can be random or relatively confined. See Intermittent Moving Hazards.

References: IAMM 1967, US MUTCD editions

#### b) Specific Terms

**CROSS ROAD SIGN/CROSS-ROAD SIGN/CROSSROAD SIGN.** Term is among oldest Road Signs of any form. This Sign is found in every system past and present in some form or other. There are two basic forms: St Andrew's Cross (X) and St George's Cross (+). UN 1968 offers both models; one for the European form of Sign; one for the American model. UN GERSS 1952 provides an alternate form in which the priority road is indicated by widening the axis of the cross symbols. Older European modes have a wide symbol on black ground.

References: UN 1968, UN GERSS 1952

**CROSS STREET SIGN.** This historic term originates with Manual on Street Traffic Signs, Signals, and Markings in 1930. It is possibly an early term for the current Cross Roads Sign.

Reference: Hawkins 7-92

**DANGEROUS FORK SIGN.** This Sign - which is similar to Y Symbol Signs - displays a representation of two forks set evenly at diagonal angles from the primary road. A second form has one fork set at an diagonal angle from a second vertical arrow while a third version bears resemblance to the Merging Traffic Sign.

References: US MUTCD editions

**DANGEROUS T-JUNCTION SIGN.** This CASATC Sign is similar to a T-Symbol Sign. It incorporates a Double Sign form which is the practice with other Signs in the CASATC system.

Reference: CASATC 1950



**DELTA SIGN.** This Mexican Sign appears in IAMM 1981. It indicates an intersection that has three branches connected with the intersections thereby forming a triangular island.

Reference: IAMM 1981

**DOUBLE ARROW SIGN.** This Sign denotes situations where traffic can flow in one direction on both sides of traffic islands, and various obstacles. A Canadian version is in a graphic form with both arrows and representation of an object while the US version has arrows only. Manitoba describes the Sign as a Traffic Island Sign. They have a primary role though not the formal name in the US and in Canada.

References: Canada 1976, US MUTCD 1961 and newer editions, Manitoba 2007

**MERGE/MERGING TRAFFIC SIGN.** This Sign indicates convergence of roadways rather than the intersection of roadways that remains separate and distinct. The symbol displays a vertical bar capped by an arrow head with a second bar converging at a diagonal angle. The Sign is seemingly confined to the Western Hemisphere. US MUTCD 1961 has a word form while the 1971 changed to graphic symbols.

References: US MUTCD 1961, 1971, IAMM 1967, Canada 1976

**ROAD INTERSECTION SIGN.** This Sign appears to represent an overarching category but instead it represents a single Sign in UN 1949. It is the only form of Intersection Sign other than the Roundabout Sign for that system. The Sign displays a St. Andrew's Cross.

Reference: UN 1968

**ROAD IN WHICH ANOTHER ROAD ENDS AT A JUNCTION SIGN.** This lengthy title from LN 1939 is similar to a Side Road Sign.

Reference: LN 1939

**ROAD JUNCTION SIGN/ROAD JUNCTIONS SIGN.** These Signs also give the sense of a general category but instead they refer to a single Sign. The first term is in a single form approximating the Side Road Sign while the second is similar to

IAMM 1967's Successive Tee Sign. Both are of the Double Sign format.  
References: OBS 1950, IAMM 1967

**SIDE ROAD SIGN.** This Sign denotes the intersection of a secondary road with the primary road. The graphic symbols consist of a black horizontal bar attached to a vertical bar; it has right and left versions. A variety of systems include the Sign. UN GERSS 1952 includes the sign though without naming it.  
References: Canada 1976, US MUTCD 1961, LN 1939, UN 1968, ECAFE 1964,

**SIGNAL AHEAD SIGN.** This Sign is from Canada 1985 indicates that motorists should be prepared to stop. The Sign is flanked by Flashing Beacons. The Sign can also be mounted with Beacons on a large background board, or Sign and Beacons can be free-standing.  
Reference: Canada 1985

**STOP SIGN AHEAD SIGN/STOP AHEAD SIGN.** This Sign indicates the nearness of a Stop Sign when there is limited-sight distance. It uses include an intersection where many accidents have occurred. The US 1961 version is in a word inscription format while newer editions include a graphic symbol of a Stop on the Stop Ahead Sign accompanied by an arrow. IAMM 1967 and 1981 have a word form and supplemental plate with distance to Stop Sign; Mexico instead has a graphic representation of a Stop Sign and arrow.  
References: IAMM 1967, Canada 1976, US MUTCD 1961 and newer editions, UN GERSS 1952

**SUCCESSIVE TEES SIGN.** This Sign displays two side roads branching off on opposite sides of a primary road in relatively close proximity but not directly across from each other. The focus of this Sign is similar to Signs for T-shaped intersections though slightly separated. UN 1968 includes a similar Sign but unnamed.  
Reference: IAMM 1967, UN 1968

**"T" SIGN/T INTERSECTION SIGN/T-INTERSECTION SIGN/T-SYMBOL SIGN.** This Sign, in the form of a "T", indicates an intersection where a left turn or a right turn is necessary. Canada 1976 adds the word "Intersection." Other

systems, including IAMM 1967, include the Sign.

Reference: Canada 1976, IAMM 1967, US MUTCD 2003

**TRAFFIC CIRCLE SIGN/ROUNDAABOUT SIGN.** These Signs indicate the approach of a circular or rotary junction. The graphic symbol displays three curved arrows arranged in a circular pattern. The term Traffic Circle Sign is supplied by IAMM 1967. The same Sign is known as an Roundabout for UN 1968 and OBS 1950.

Reference: IAMM 1967, UN 1968, OBS 1950

**TWO-DIRECTION ARROW SIGN.** This Sign is an Intersection Sign and is employed at T-Intersections. Newer US MUTCD editions contain both single and double arrow under the heading of Large Arrow Sign but in different categories.

References: US MUTCD 1988, 2000, 2003

**“Y” SIGN/Y INTERSECTION SIGN/Y-INTERSECTION SIGN/Y-SYMBOL SIGN.** This sign indicates a change in direction is required; the change is diagonal rather than a sharp turn to right or left. The symbol has the appearance of the letter “Y”. ECAFE 1964 and UN GERSS 1952 include the Sign though without a name. Canada 1975 adds the word “Intersection” to the Sign. The addition of “Symbol” is from the US.

Reference: ECAFE 1964, UN GERSS 1952, Canada 1976, US MUTCD 2000

**YIELD AHEAD SIGN.** The rationale for this Sign is similar to that of the Stop Ahead Sign: it is employed where there is too little visibility to see the intersection except at close range. The US MUTCD 1961 form is in a word inscription form but newer editions contain a graphic symbol of a Yield Sign on the Yield Ahead Sign. This Sign is also found in Canada.

Reference: US MUTCD 1961, Canada 1985

## 2B5 Intermittent Moving Hazards Signs

### INTERMITTENT MOVING HAZARDS SIGNS

Classification #: 4313

Type of Aid: Unlighted TCD Aid.

Operation. Visual Signboards display appropriate messages through color, design and symbols.

Comments: This term is from Canada 1976. Moving Hazards include pedestrians, school children, trains, and inanimate moving objects (including road surfaces that are slippery because of moisture and falling rocks). No other system has this category though some systems may include parts of it. There is a substantial merit in the Canadian approach and it is adopted/ adapted for the Database.

References: Canada 1976

ADVANCE CROSSING SIGN/CROSSING SIGN. US MUTCD 1978 distinguishes between Crossings and Advance Crossings. Advance Crossing indicates irregular entry onto a roadway by cyclists, animals, etc. Crossing Signs include double lines with graphic images indicating actual crossing. That is especially the case at human crossings.

Reference: US MUTCD 1978

ADVANCE SCHOOL WARNING SIGN. Sign serves as an Advance Sign for School Crossing Sign.

Reference: US MUTCD 2000

BEWARE OF ANIMALS SIGN. Animal-related Signs are found with only a few systems. However, more modern systems often include animal-related Signs: UN 1968, ECAFE 1964, and Western Hemisphere system. National codes may contain Signs missing from international codes. However, this first of the animal Signs is found only in ECAFE 1964. In most instances UN GERSS 1952 is the repository of Signs found in ECAFE though not in this case. The ECAFE 1964 representation is difficult to identify. It is perhaps a composite of several animals or possibly a water buffalo.

References: UN 1968, ECAFE 1964, UN GERSS 1952

BICYCLE CROSSING WARNING SIGN/CYCLISTS ENTERING OR CROSSING SIGN. These Signs denote bicycles crossing, entering a roadway. The Canadian version displays a bicycle without rider. US MUTCD 1971 has a similar Sign. The second Sign, from UN 1968, has a rider on bicycle; but as is often the case the rider is male. IAMM 1967 has an apparently unisex figure on a

bicycle.

References: US MUTCD 1971, Canada 1976, UN 1968, IAMM 1967

CATTLE OR OTHER ANIMAL CROSSING SIGN. This Sign has two versions for UN 1968: a domestic animal which may be a cow (though a quite stout cow), and a wild animal which may be a deer, stag, or similar beast.

Reference: UN 1968

CATTLE CROSSING SIGN. This Sign in IAMM 1967 bears a strong resemblance to the previous Sign from UN 1968. US MUTCD 1961 includes this Sign in word form; newer editions have graphic representations. Canada 1985 also includes this Sign.

References: IAMM 1967, UN 1968, US MUTCD 1961, Canada 1971

CHILDREN SIGN. A variety of systems with Children Signs lack School Signs (or vice versa). Apparently only IAMM 1967 has both. Children Signs refer to playground rather than school areas.

Reference: IAMM 1967

CONGESTION SIGN. This ECE 1995 Sign indicates areas of serious traffic congestion. It displays an illustration of three cars in close proximity.

Reference: ECE 1995

CROSS WALK SIGN. This Sign designates a cross walk rather than a pedestrian crossing though the two forms overlaps.

Reference: US MUTCD 1961

CROSSING NO GATES/GATES OR LEVEL CROSSING BARRIER/  
LEVEL CROSSING WITH BARRIER/LEVEL CROSSING UNGUARDED/  
LEVEL CROSSING/GUARDED LEVEL CROSSING/LEVEL CROSSING  
GUARDED BY GATES/LEVEL CROSSING WARNING CROSS/  
LEVEL CROSSING STOP SIGN/UNGUARDED LEVEL CROSSING/  
UNGUARDED LEVEL-CROSSING/LEVEL-CROSSING WITH GATES/  
LEVEL-CROSSING WITHOUT GATES/RAILWAY ADVANCE WARNING/  
RAILWAY CROSS-BUCK SIGN/UNPROTECTED RAILROAD-CROSSING/

**PROTECTED RAILROAD CROSSING.** Signs dealing with railway/-road/level-crossings are among the most common Warning Signs and included by all systems. Frequently these forms of Signs are a subdivision in themselves. Level-crossing is the preferred term in European practice and systems so influenced. There are a great many Sign terms in this group yet they refer to a relatively narrow range of messages thereby creating a considerable coherence. Railroad Advance Warning Signs in US MUTCD 1961 and newer editions are black on yellow with St. Andrew's Cross. Hawkins includes a Railroad Sign from ASSHO 1927 which displays a Saint George Cross (+).

Signs for Railway Crossings with gates only display a representation of a gate. Those lacking gates frequently display a picture of a locomotive or a section of track imposed on a St. Andrew's Cross. The US displays that cross accompanied by the letter "R" flanking the Cross; Ecuador also follows this practice. Cross Buck Signs are often a St. Andrew's Cross rather than a representation embossed on a Sign plate. US MUTCD 1971 moved Railway Crossbuck Signs to the Regulatory category from the Warning category.

References: US MUTCD editions, Hawkins 7-92, IAMM 1981, UN 1968

**DEER CROSSING SIGN.** Signs under this title are found in IAMM 1967 and US MUTCD 1961. IAMM employs a graphic representation very similar to that of the second Sign of UN 1968 (Cattle Crossing or Other Animal Crossing Sign). US MUTCD 1961 uses words though a graphic image is included in the 1971 edition. Canada 1985 also includes this Sign.

Reference: IAMM 1967, US MUTCD 1961, 1971, UN 1968

**FARM MACHINERY SIGN.** This Sign indicates places where farm machinery may be present on the road or crossing a road. The graphic representation is of a tractor with farm.

#### **GRADE CROSSING SIGNS**

Classification #: 4315

Type of Aid: Unlighted TCD

Operation: Signboard display messages according to established patterns.

Comments: These Signs are in the Intermittent Moving Hazards category.

However, the Classification lists them separately because TCDs for railway crossings constitute a special situation. A different approach to classification may have brought together all forms of Crossing Aids though this approach divides forms according to character of Device. The several forms are a major group though separated.

References: IAMM 1967, US MUTCD 1971

FALLEN ROCK SIGNS/FALLING ROCK OR LANDSLIDES SIGN. This and other Signs for inanimate objects may be regarded as relating to road conditions or possibly other hazards. However, they represent an off-and-on situation not directly tied to road-related situations. Signs with Graphic symbol display rock formations with pieces of rocks breaking loose. US MUTCD 1961 has a word inscription form while newer editions have a graphic form.

References: UN 1968, Canada 1976, US MUTCD 1961 and newer editions

HAZARDOUS CONDITION SIGN. This Sign from US MUTCD 1978 refers to bicycles. It displays a bicycle at a angle with curved line accompanying it. The format is similar to that of the Slippery When Wet Sign. A Supplemental Plate can have one of several messages including Slippery When Wet, Steel Deck, Rough Pavement, Ford, Bridge Joint.

Reference: US MUTCD 1978

HIGH WATER SIGN. This Sign may fit better in Other Hazards or Road Conditions. Yet the experience of fast rising water strongly suggests the Intermittent Moving Hazards category. Seemingly only the US includes this Sign. US MUTCD 1961 includes a listing of Other Warning Signs though without pictures

Reference: US MUTCD 1961

LOW GROUND CLEARANCE PLAQUE. Sign indicates road conditions that may cause trucks and trailers with long wheel base to become hung-up. This is a graphic symbol Sign. A Plaque in words can be added as an educational effort for a period of time.

Reference: US MUTCD 2003

MOOSE CROSSING SIGN. Canada 1985 appropriately adds a Moose Crossing

Sign displaying a great beast with dramatic antlers.

Reference: Canada 1985

MOTORIZED TRAFFIC SIGN. A US MUTCD 2000 term that became Vehicular Traffic Sign in 2003 which see.

Reference: US MUTCD 2003

NO SIGNAL SIGN. A Sign posted at railroad crossings that indicates Signals are absent from crossing.

Reference: US MUTCD 2003

NO TRAIN HORN SIGN. Sign indicates that trains have authorization to not sound horn at crossing.

Reference: US MUTCD 2000

PEDESTRIAN CROSSING AHEAD SIGN/PEDESTRIAN CROSSING SIGN/PEDESTRIAN CROSSWALK SIGN.. A Sign found in many systems. A single adult figure -- nearly always male -- is displayed between lines for UN 1968; some systems include one line and others no lines. US MUTCD 1961 retained word inscriptions for this Sign. Newer editions changed to graphic forms. Canada 1985 replaced older forms with pictographs.

References: US MUTCD 1961, UN 1968, Canada 1976, 1985, ECAFE 1964

PLAYGROUND AHEAD SIGN/PLAYGROUND SIGN. Few systems include these Signs. Canada 1976 includes a representation similar to that of IAMM 1967 (for the Children Sign) though the Sign refers to a playground situation. In newer editions of US MUTCD representation of a teeter-totter with pictograph figures.

Reference: Canada 1976, IAMM 1967, US MUTCD 2000, 2003

PREPARE TO STOP SIGN. This Manitoba Sign incorporates words, graphics and flashing lights for this Warning Sign. It gives advance warning of a Stop Sign.

Reference: Manitoba 2007

RAILROAD SIGN/RAILWAY/LEVEL CROSSING SIGNS. Basic terms for



Crossing Signs. Systems employ a variety of terms for similar Signs.  
Reference, Part Iii, 1st edition

RANGE CATTLE SIGN. This Sign appears in US MUTCD 1961. It is one of a series of Other Warning Signs. No representation is included.  
Reference: US MUTCD 1961

RESERVED BUS LANE SIGN/RESERVED LANE SIGN. Manitoba has several Signs for Lane-Use Control that are of a Warning configuration. These are absent from Canada 1976.  
Reference: Manitoba 2007

SCHOOL BUS STOP AHEAD SIGN. This Sign provides advance notice of school bus stops where there is limited site distance. Word message format is employed in US MUTCD 1971 and 1978 editions. Canada 1985 displays a silhouette of a bus with flashing light and pedestrians in pictograph forms.  
References: Canada 1985, US MUTCD 1971, 1978

SCHOOL CROSSING WARNING ASSEMBLY/SCHOOL CROSSING SIGN. It consists of School Advance Warning Sign and Diagonal Arrow Plaque that displays downward pointing diagonal arrow. The Assembly marks crosswalk at or near school. Ontario School Crossing Sign and Advance Sign display white symbols on blue ground. This is in contrast to Signs employing fluorescent yellow.  
Reference: US MUTCD 2003, Ontario 2003

SCHOOL CROSSWALK SIGN. Canada 1985 displays pictographs of two people over a horizontal line. An older version of this Sign had a large "X" and the word School.  
Reference: Canada 1985

SCHOOL SIGN/SCHOOL AHEAD SIGN/SCHOOL CROSSING SIGN/SCHOOL ZONE SIGN. These Signs display great diversity. The Canadian School Ahead Sign is pentagonal shaped with white rim, blue ground and white figures. Canada 1985 replaces old figures of humans with pictographs. The US

MUTCD 1971 School Advance Sign has a pentagonal-shaped black symbols on a yellow ground. The School Crossing Sign is similar but with lines added indicating a crosswalk. IAMM 1967 has a diamond-shaped sign with two non-descript children embossed on it. ECAFE 1964 and UN GERSS 1952 display two children with the male child the larger of the two. UN 1968 has a similar pattern.

References: Canada 1985, IAMM 1967, UN GERSS 1952, UN 1968

SCHOOL SPEED LIMITS SIGN. This is a partially Warning Sign and a partially Regulatory Sign. The word school in black and yellow is attached to Speed Sign or becomes an integral part of a School Speed Sign.

References: US MUTCD 1971 and newer editions

SLIPPERY WHEN WET-BICYCLE PATH SIGN. This Sign displays a bike with skid marks.

Reference: Canada 1985

SLIPPERY WHEN WET SIGN/SLIPPERY ROAD SIGN. This Sign denotes hazardous road during rain and other conditions. The graphic symbols can include an auto at an angle followed by lines representing skid marks. This Sign can also fit into other categories including the Road Conditions category. US MUTCD 1961 displayed word forms while newer editions have graphic forms.

References: Canada 1976, UN GERSS 1952, ECAFE 1964, US MUTCD 1961 and newer editions

SNOWMOBILE CROSSING SIGN. This Sign displays a silhouette of a snowmobile next to a graphic design of a crossing zone.

Reference: Canada 1985

SNOWMOBILE SIGN. This Sign is listed with Nonvehicular Signs which warn of situations in which unexpected intrusions into roadways may occur. Other forms involve pedestrians and animals. Yet the snowmobile is a form of vehicle.

Reference: US MUTCD 2003

STORAGE SPACE SIGN. Sign is found between road intersections and railroad crossings and indicates available space for storage of vehicles. A graphic symbol

Sign can be supplemented by Signs with word messages.

Reference: US MUTCD 2003

TRAIN MAY EXCEED 130 KMH (80 MPH) SIGN. Sign indicates when this speed is permitted. Sign posted between Advance Warning Sign and crossing.

Reference: US MUTCD 2003

TRUCK CROSSING SIGN/TRUCK ENTRANCE SIGN, RIGHT, LEFT. These Signs indicate where trucks cross a road or enter a road. These Signs appears to be confined to US MUTCD editions and Canada. The Canadian Truck Entrance Sign displays a truck next to a segment of road. One version has the truck to the left of the road representation while the truck is to the right in the second form. US MUTCD 1961 lacks a representation of the Truck Crossing Sign. Newer editions include a graphic representation in the Construction and Maintenance category (which is an older term in US though current in Canada).

References: Canada 1976, US MUTCD 1961 and newer editions

USE SECOND GEAR SIGN/USE LOWER GEAR SIGN/TRUCKS USE LOWER GEAR SIGN. These Signs refer to truck operations on steep slopes.

References: US MUTCD 1971 and newer editions.

VEHICULAR TRAFFIC SIGNS. These Signs indicate possible intrusion by specialized forms of vehicles. US MUTCD 2003 presents images of Signs without labels:

GOLF CART SIGN

BICYCLIST SIGN

FARM VEHICLES

EMERGENCY VEHICLES

HORSE-DRAWN VEHICLES

TRUCK CROSSING SIGN. Includes word and graphic symbol forms.

## 2B6 Construction & Maintenance Signs

General Note. It can be debated whether or not this segment is needed since most systems have a single Road Works Sign. However, at least two systems, Canada

and the US have many Signs of this sort and the segment therefore is needed. Both unitary Road Work Signs as well as the expanded Signs of those two systems are included. Wainright 2005 notes that signs with orange ground for work areas, etc are employed by an increasing number of nations. This suggests greater significance for C and M, Temporary TCD and allied categories.

#### CONSTRUCTION & MAINTENANCE SIGNS.

Classification #: 4314

Form of Aid: Unlighted TCD Aid

Operation: Visual Signboards display messages of color, design, graphic symbols.

Comments: Older US MUTCD editions included a major segment under this heading. That has been changed to Temporary TCDs. Canada has a similar heading. However, the older heading continues to have value and is employed as the general heading here.

References: US MUTCD editions, Canada 1976

ADVANCE ROAD (STREET) CONSTRUCTION SIGN. A Sign that is posted in advance of the beginning of construction, detours.

Reference: US MUTCD 1988

ADVANCE CLOSED SIGN. There are two forms of this Sign: Road (Street) Closed ( ) Feet or ( ) Miles.

Reference: US MUTCD 1988

ADVANCE ONE LANE ROAD SIGN. Sign for construction and other situations in advance of the lane change.

Reference: US MUTCD 1988

ADVANCE LANE CLOSED SIGN. Sign is positioned before a lane is closed. There are two versions: one indicating distance in feet, one in miles.

Reference: US MUTCD 1988

ADVANCE DETOUR SIGN. An temporary use Sign employed before detours.

Reference: US MUTCD 1988

BLASTING ZONE XXX FEET SIGN/TURN OFF 2-WAY RADIO SIGN/END BLASTING ZONE SIGN. The first Sign is an advance Sign for work site using explosives. The next two Signs are sequential with the first.  
Reference: US MUTCD 1988

ROAD WORK SIGN/ROAD WORKS SIGN. This general purpose Sign is the only Construction & Maintenance Sign for a variety of systems. It warns of the approach of a road work area. It is found in UN 1949 and UN 1968, UN GERSS 1952 and ECAFE 1964. Canada 1976 speaks of Road Work instead of Road Works. Canada's version has a pictograph character to it while other versions bear a more literal resemblance to the human form. UN GERSS 1952 is akin to the Canadian version though a variant design. The Road Repairs Ahead Sign of IAMM 1967 is similar.  
Reference: UN 1949, UN 1968, UN GERSS 1952, Canada 1976

ROAD WORK AHEAD SIGN/ROAD WORK \_\_SIGN. The first Sign is from US MUTCD 1961. It is an Advance Sign in yellow with black symbols. 1971 edition had a Sign in orange on black ground indicating mileage and omits "Ahead."  
References: US MUTCD 1961, 1971

ROAD REPAIRS AHEAD SIGN. This Sign is similar to the Road Work Ahead though the graphic representation is somewhat different. Mexico has a variant form of the IAMM Sign in IAMM 1981.  
Reference: IAMM 1981

The US has a broad range of Construction and Maintenance Signs (referred to as Temporary TCD in newer editions) These Signs include:

ROAD CONSTRUCTION ... FEET SIGN/DETOUR AHEAD SIGN/  
ROAD [STREET] CLOSED ... FEET/ONE LANE ROAD ... FEET SIGN/  
MEN WORKING SIGN/FRESH OIL SIGN/ROAD MACHINERY AHEAD  
SIGN/SHOULDER WORK AHEAD SIGN/SURVEY [CREW] PARTY  
SIGN/FLAGGER SIGN/FLAGMAN ... FEET SIGN/LEFT [RIGHT]  
LANE CLOSED [AHEAD] SIGN/SINGLE LANE ... FEET SIGN/  
WORKER SIGN/WORKERS SIGN/BLASTING ZONE\_\_FEET SIGN/

OFF 2-WAY RADIO SIGN/END BLASTING ZONE SIGN/  
END CONSTRUCTION SIGN/PILOT CAR CAR FOLLOW ME SIGN.

Reference: US MUTCD editions

Canada also has a variety of Signs in this category which is termed Temporary Conditions & Developments. Symbols consist of pictographs of person, flag and survey equipment. These Signs include:

ROADSIDE DIVERSION SIGN/DETOUR SIGN /FLAGMAN SIGN/  
SURVEY CREW/TRUCK ENTRANCE SIGNS.

CONSTRUCTION APPROACHING WARNING SIGN. A Sign that gives additional advance warning when specific obstruction has "limited sight distance."

Reference: US MUTCD 1988

TEMPORARY TCD/TEMPORARY TCD ZONE DEVICES. Such Devices are employed in road/street construction, maintenance, utility and "incident management operations." They include Signs but also other TCD forms.

Reference: US MUTCD 2000

TEMPORARY TCD SIGNS. Signs employed in temporary situations such as construction and maintenance. Signs have black symbols on orange ground. Fluorescent red-orange or yellow-orange ground are permitted.

Reference: US MUTCD 2003

## 2B7 Other Hazards Signs

General Note. This segment contains two groups of Signs: a) General or Alternative Danger Signs that are present in numerous systems, and b) miscellaneous forms found in one or, at most, a few other systems.

### a) General or Alternative Danger Signs

General Note. European systems have had two general purpose Danger Signs. One form continues to this day and displays a ! That form is termed General

Danger Sign or an equivalent title. The other form is a hollow Sign and associated with LN forms. There are three members of this group:

ALTERNATE GENERAL DANGER SIGN. The General Danger Sign bears this title in LN 1928. It is hollow in order to be usable in severe climatic conditions. LN 1926 has the same Sign where it is referred to as a Hollow Sign.  
References: LN 1926, LN 1928

ALTERNATIVE SIGN. LN 1931 employs this title for the hollow Sign.  
“[A]tmospheric conditions” dictate the use of the hollow Sign.  
Reference: LN 1931

DANGERS OTHER THAN THOSE INDICATED BY SIGNS 1-6 BIS. An awkwardly termed Sign. LN 1939 includes this Sign which has the standard shape and color. It displays a broad vertical bar which is termed an “exclamation mark” though it lacks the usual period. UN 1968 (Other Dangers) has a similar Sign with a conventional exclamation point. LN 1931 describes the graphic symbol as a vertical bar instead of an exclamation mark.  
Reference: LN 1939

GENERAL DANGER SIGN. LN 1939 includes the red hollow triangle Sign under this title. No mention of climatic factors in the accompanying description. It can serve as a substitute for the Other Danger Signs. A supplemental plate illustrates or describes the actual danger.  
References: LN 1926, LN 1928

PELIGRO SIGN. This Sign from Chile can be translated as Danger. It is used to advise the driver of the existence of some danger arising from problem or deficiency in the road: different levels of pavement, water drains, chuck holes, etc. It displays the normal warning shape of a diamond with yellow ground, and black dashes forming an octagon. It seems to be a type of general purpose or miscellaneous Danger Sign suggesting older European Signs .  
Reference: IAMM 1981

OTHER DANGERS SIGN. A Sign under this heading is found in UN 1949 and

UN 1968. The 1949 version has a vertical bar while the 1968 form has an exclamation point.

References: UN 1949, UN 1968

#### b) Miscellaneous Forms

ADDITIONAL PANELS. UN 1968 and ECE 1995 include a number of Panels including two for Warning Signs. These Panels are seemingly akin to Supplemental Panels in the US. One indicates the distance to a Warning Sign while the other indicates the length of roadway to which the Sign refers. Both are rectangular in shape with black letters and numbers on white ground.

References: UN 1968, ECE 1995

ADVANCE TRAFFIC CONTROL SIGNS. Category of Signs that are employed when a "primary traffic control device" can not be seen for an adequate distance by the user. They include:

STOP AHEAD SIGN

YIELD AHEAD SIGN

SIGNAL AHEAD SIGN

References: US MUTCD 2000, 2003

ADVISORY EXIT SPEED SIGN. This Sign indicates exit speed when road conditions and other factors require notification of the recommended speed. The Sign follows the standard Warning Sign colors of black on yellow. Word messages list the exit and speed limit, or ramp and speed limit.

Reference: US MUTCD and newer editions

AIRFIELD SIGN/AIRPLANE SIGN. These Signs indicate an airport or low-flying planes. UN 1968 includes the first Sign under Airfield with a representation of a commercial plane that refers to low-flying planes. IAMM 1967 employs the term Airplane which refers to an airport or to planes. An Airport Sign can also be found in Regulatory Signs.

References: UN 1968, IAMM 1967



BE PREPARED TO STOP SIGN. Sign employed to indicate traffic stopped by Traffic Signal; areas experiencing frequent congestion can also be marked by the Sign.

References: US MUTCD 2000, 2003

BRIDLE PATH SIGN. A Miscellaneous Sign for US MUTCD 1961. It is part of the Other Warning Signs list that lacks visual representations.

Reference: US MUTCD 1961

CHEVRON/CHEVRON ALIGNMENT SIGN. This Sign consists of rectangular shaped panels with each displaying a single large black chevron on yellow ground. It can replace or supplement the Large Arrow Sign. The Chevron gives *additional warnings of change in road alignment.*

References: US MUTCD editions, Canada 1985

CROSS-WIND SIGN. This Sign found in UN 1968 displays a representation of an airport wind-sock. IAMM 1967 has a version displaying a palm tree in full gale indicating strong side winds.

Reference: UN 1968, IAMM 1967

DEAD END SIGN/NO OUTLET SIGN. These Signs warn of a street lacking an outlet save the point of entry.

Reference: US MUTCD 1971

DIVIDED HIGHWAY AHEAD SIGN. Canada 1985 includes this Sign which displays a vertical black bar representing a highway intersected by horizontal bars with arrow heads pointing left and right.

Reference: Canada 1985

DIVIDED HIGHWAY SIGN/DIVIDED HIGHWAY (ROAD) SIGN. This Sign indicates the beginning of a section of highway divided by a barrier. An older version in the US had a word message while a new version displays a graphic symbol indicating the highway is to become divided. For a time a Supplemental Plate with a word inscription was retained. Other systems also have the Sign in graphic form.

References: US MUTCD edition, IAMM 1967, Canada 1976

**DIVIDED HIGHWAY ENDS SIGN.** This Sign announces the end of a divided road. US MUTCD 1971 included a word form which was dropped in favor of a graphic form in newer editions. Other Western Hemisphere systems include such a Sign. The Sign displays a reverse symbol of the Divided Highway Sign.  
References: US MUTCD editions, IAMM 1967, Canada 1976

**EXIT SIGN.** This Sign is listed in US MUTCD 1961 within the Miscellaney category. There is no illustration. The Sign appears in newer editions of US MUTCD as an Exit Only Sign. It is a Warning Sign in 1961 but appears in the Regulatory category in US MUTCD 1971 and newer editions.  
References: US MUTCD 1961, 1971, newer editions

**FACTORY ENTRANCE SIGN.** This Sign appears in US MUTCD 1961 as an example of a Miscellaneous Warning Sign. There is no representation.  
Reference: US MUTCD 1961

**NO PASSING ZONE SIGN.** This Sign indicates a No-Passing Zone marked by Pavement Markings. The Sign is pennant-shape (triangle with one point horizontal) with word inscription.  
References: US MUTCD 1978, 1988

**NOTICE BOARDS.** Noble 1946 includes this Sign which apparently refers to private Traffic Signs in the 19th century. The uses include caution (meaning danger) Signs at sharp curves, hills by cycling groups.  
Reference: Noble 1946

**RAMP SPEED SIGN.** Sign indicates recommended speed. It is a form of Advisory Speed Sign.  
Reference: US MUTCD 2003

**ROAD DIVERSION SIGN.** This Sign can be regarded as a road detour Sign though under a different name. It contains a graphic representation of a road detour route.

Reference: ECAFE 1964

**RULES OF ROAD SIGN.** This Sign indicates which side of the road motor vehicles travels on for a given country. ECAFE 1964 includes this Sign in three formats: Keep Right, Keep Left and Move to Right versions. The Signs are positioned at the borders of a nation.

Reference: ECAFE 1964

**SNOWFLAKES SIGN.** ECE 1995 includes this Sign with Additional Panels section. It indicates ice or snow conditions that create slippery road conditions. The sign is black on white. It is not clear why the Sign is a Regulatory Sign in Additional Panels. It is similar to the Slippery When Wet Sign, a Warning Sign in various systems.

Reference: ECE 1995

**SPEED HUMP SIGN.** In transportation parlance this Sign denotes a “vertical deflection” whose function is to slow down traffic.

Reference: US MUTCD 2003

**SPEED REDUCTION SIGN.** Sign warns of upcoming lowered speed limits.

Reference: US MUTCD 2003

**TEMPORARY TWO-WAY AHEAD SIGN.** IAMM 1967 alone includes this Sign. It can be contrasted with Signs indicating permanent two-traffic situations. Two-Way Traffic and Two-Way Traffic Ahead for Canada and the US are in the Regulatory category (though the US MUTCD 1971 edition included the Two-Way Sign as a Warning Sign).

Reference: IAMM 1967, US MUTCD 1971

**TWO-WAY TRAFFIC SIGN.** Sign indicates change from one-way to two-way roads. It can be installed on two-way roads at intervals to remind motorists it is a two-way route.

Reference: US MUTCD 1988

**UNEVEN TRACKS SIGN.** This is listed in US MUTCD 1961 without

explanation. It is listed in Other Warning signs none of whom are described. Newer editions of US MUTCD do not mention it. The Rough Road Sign may be similar to it.

Reference: US MUTCD 1961

c) Supplemental Plates/Plaques

**ADVANCE STREET NAME PLAQUE.** Plaque can be added to Intersection or Advance Traffic Control Signs thereby provide name of intersecting street.

Reference: US MUTCD 2000

**ADVISORY SPEED PLATE.** This is a Warning Sign not a Regulatory Sign. It accompanies appropriate Warning Signs where speed reduction is needed.

Reference: US MUTCD 1961 and newer editions.

**CROSS TRAFFIC DOES NOT STOP PLAQUE.** Plaque employed before Stop Sign for two-way stop-controlled intersection to indicate it is not a four-way or all-way stop. If affixed Stop Sign it has black symbols on white ground instead of black on yellow.

Reference: US MUTCD 2003

**DEAD END PLAQUES/NO OUTLET PLAQUES.** Plaques listed in US MUTCD 2000 but not the 2003 edition. They are added to Street Name Signs and indicate that ends in a dead end or there is no outlet save the entering route. Dead End and No Outlet Signs also are in use.

Reference: US MUTCD 2000

**DISTANCE PLAQUE/NEXT DISTANCE PLAQUE/DISTANCE AHEAD PLAQUE.** Distance Plaque includes the next two terms: Distance Ahead Plaque gives the distance of a condition noted by accompanying Warning Sign. Next Distance Plaque indicates the length of the condition indicated.

References: US MUTCD 2000, 2003

**EMERGENCY VEHICLE SIGN/EMERGENCY SIGNAL AHEAD PLAQUE.** The Sign indicates proximity of emergency facility. The Plaque denotes Signal

when in use.

Reference: US MUTCD 2003

**HIGH-OCCUPANCY VEHICLE PLAQUE.** Plaque attached to a Warning when a condition affecting the HOV lane is involved.

Reference: US MUTCD 2003

**HILL-RELATED PLAQUE.** A category which includes several forms of Signs including Distance Plaques, Use Low Gear, Trucks Use Lower Gear, 9% Grade, 9% XX Miles which see.

Reference: US MUTCD 2003

**NO OUTLET PLAQUE.** Employed with Street Sign to indicate no other exit from street.

Reference: US MUTCD 2000, 2003

**PHOTO ENFORCED PLAQUE.** Plaque indicates that regulations are enforced by a camera. When attached to a Warning Sign the Sign has black symbols and borders on yellow ground.

Reference: US MUTCD 2003

**SHARE THE ROAD PLAQUE.** Plaque warns Motor Vehicle Operators of slower means of transportation on road including bikes, golf carts, farm machinery.

Reference: US MUTCD 2000

**SUPPLEMENTAL ARROW PLAQUES.** These plaques are added to Warning Signs on an intersecting road when intersection and traffic condition are too close together to denote situation. There are three forms:

ADVANCE ARROW PLAQUE

DIAGONAL ARROW PLAQUE.

DIRECTIONAL ARROW PLAQUE

Reference: US MUTCD 2000, 2003

**SUPPLEMENTAL PLAQUES.** Plaques supply added information to that of the

accompanying Sign. Color pattern is that of the parent Sign. Plaques are square or rectangular.

References: US MUTCD 2003

**TRAFFIC CIRCLE PLAQUE.** Plaque added to Circular Intersection Sign; it gives advance notice of that Sign.

Reference: US MUTCD 2003

**TRUCK USE LOWER GEAR PLAQUE.** One of several Hill-Related Plaques. Provides information for truck operators in hilly areas.

Reference: US MUTCD 2000

CHAPTER THREE  
REGULATORY SIGNS

1A Indexes

1A1 Category Index

Introduction, Overarching Sub-Overarching Terms & Messages (3B1)

- a) General Note
- b) Overarching and Sub-Overarching Terms
  - Regulatory Signs
  - Signs Giving Definite Instructions
  - Signs Giving Definite Information
  - Priority Signs
  - Prohibitory or Mandatory Signs/Prohibitory and Mandatory Signs
- c) Messages

Priority Signs (3B2)

- Priority Signs
- Give Way/Yield Signs
- To Oncoming Traffic Signs
- Slow-Major Road Ahead Sign
- Stop Sign
  - Supplemental Plates/Plaques
    - Four-Way Plaque
    - All Way
  - Halt at Major Road Ahead
  - Priority Road Sign/End of Priority Sign
  - Additional Panels
  - Stop, Children Crossing Sign

Prohibitory & Restrictive Signs (3B3)

- Prohibitory & Restrictive Signs
- a) Prohibitive & Restrictive of Entry Signs
  - 1) One-Way & Both Directions Signs
    - No Entry Sign

Do Not Enter Sign  
Except Buses & Cyclists Plaques  
Direction Prohibited Sign  
Closed to all Vehicles in Both Directions Sign/Closed to all Vehicle Signs  
Wrong Way Sign

2) Exclusion Categories of Vehicle Signs

No Entry for Any Power Drive Vehicle Except Two-Wheeled Motor-Cycles Without Side-Car Sign/... Motor Cycles Sign/... Mopeds Sign/... Good Vehicles Sign/... Any Power Driven Vehicle Drawing a Trailer Other Than a Semi-Trailer or a Single Axle Trailer Sign/... For Pedestrians Sign/... For Animal-Drawn Vehicles Sign/ ... For Handcarts/... Power Driven Agricultural Vehicles Sign/ ... Vehicles Carrying Dangerous Goods for Which Special Sign Plating is Prescribed Sign

No Entry for Goods-Carrying Vehicle Sign/No Entry for Motor Vehicles Sign/No Entry for Bicycles Sign

Motor Traffic Prohibited Sign/Motor Lorries Prohibited Sign/Cycling Prohibited/Motorcycling Prohibited Sign/Riding Horses Prohibited Sign

No Trucks Sign/No Passengers Cars Sign/No Animal-Drawn Carts Sign/No Bicycles Sign/No Farm Machinery Sign

No Motor Vehicles Sign/No Truck Sign/Trucks Excluded Sign/Commercial Vehicles Excluded Sign/Pedestrians Excluded Sign/Vehicles with Lugs Prohibited Sign/Commercial Vehicles with Lugs Excluded Sign/Pedestrians and Bicycles Prohibited Sign/No Bicycles Sign/Bikes, Trucks, Motorcycles Prohibited Sign

Play Street: Prohibited All Vehicles\_\_To\_\_Unless Calling at Premises in the Street Sign

Selective Exclusion Sign

Traffic Prohibition Sign

3) Vehicular Exclusion: Weight, Height and Length Signs

No Entry for Vehicles Having an Over-All Width Exceeding ... Metres (... Feet) Sign/No Entry for Vehicles Having an Over-All Height Exceeding ... Metres (... Feet) Sign/No Entry for Vehicles Exceeding



.... Tons Laden Weight Sign/No Entry for Vehicles Having a Weight Exceeding ... Tons on One Axle Sign/No Entry for Vehicles or Combinations of Vehicles Exceeding ... Metres (... Feet) in Length Sign

Weight Limit Sign (LN 1931 and LN 1939)/Maximum Width of Vehicles Sign/Maximum Height of Vehicles Sign/No Entry for Vehicles Having an Axle Weight Exceeding ... Tons (UN 1949) Signs

Weight Limit ... Tons Sign/Axle Weight Limit ... Tons Sign/No Trucks Over ... Lbs Empty Weight Sign/Weight Limits ... Tons Per Axle ... ... Tons Gross Sign

Maximum Load Sign/Maximum Height Sign/Maximum Width Sign/ Maximum Load Per Axle Sign/Maximum Length Permissible Sign

4) Miscellaneous & Single Signs

Driving of Vehicles Less Than ... Metres (... Yards) Apart Prohibited Sign

b) Prohibitory & Restrictive: Turns & U-Turns Signs

No Left Turn Sign/No Right Turn Sign/Turning to the Left Prohibited Sign/Turning to the Right Prohibited Sign/No U-Turn Signs/No About-Turn (U-Turns) Signs/No Turns Sign/U-Turn Prohibition Sign

Turn Left (Right) Sign

No Turn Sign

No Turn on Red Sign/Right Turn on Red After Stop Sign

No Right Turn on Red Traffic Signal Sign

Do Not Block Crossroads Sign

c) Prohibitory and Restrictive: Overtaking (Passing) Sign

Overtaking Prohibited Sign/Overtaking By Goods Vehicle Prohibited Sign

Do Not Pass Sign

No Overtaking Sign

Stopping Prohibited Sign

d) Prohibitory and Restrictive: Speed Limits Sign

Maximum Speed Limited to the Figure Indicated Sign

Maximum Speed Zone Sign

Speed-Limit Sign/Speed Limit Sign

- Speed Limit 30 MPH Sign/30 MPH Speed Limits Sign
- Truck Speed Limit Sign/Night Speed Limit Sign/Minimum Speed Limit Sign/Truck Maximum Sign
- Speed Zone Ahead Sign/Reduced Speed Ahead Sign/Reduced\_\_Speed MPH Sign/Speed Limit\_\_& Minimum Speed Limit Sign
- e) Miscellaneous, Single Forms, & End of Prohibition or Restrictive Sign
  - Dangerous Goods Prohibition Sign
  - Fine Higher Plaque
  - Passing Without Stopping Prohibited Sign
  - Stop (Customs) Sign/Customs Sign/Stop Near Customs Sign
  - Use of Audible Warning Devices Prohibited Sign/Horn Blowing Prohibited Sign/Silence Sign
  - End of All Local Prohibitions Imposed on Moving Vehicles Sign/End of Speed Limit Sign/End of Prohibition of Overtaking Sign
  - Speed Limit De-Restriction Sign
  - End\_\_Mile Speed Sign
  - Additional Panels
  - Inspection Sign
  - Truck Inspection Station Sign/Commercial Vehicles Next Right Sign/Commercial Vehicles Next Right Sign/Truck Inspection Station Advance Sign/Truck Inspection Station Exit Signs
  - When Passing Workers Plaque
- Mandatory Signs (3B4)
  - Mandatory Signs
  - Direction to be Followed Sign
  - Compulsory Circulation Sign (I)
  - Compulsory Circulation Sign (II)
  - Pass This Side Sign
  - Divided Highway Crossing Sign
  - Keep Your Right Sign/Turn Left Only Sign/Turn Right Only Sign/Keep Straight Ahead Sign/Trucks to Right-Lane Sign/Two Way Traffic Ahead Sign/Pedestrians to the Left Sign/Center Lane-Left Turn Only Sign
  - Keep Right Sign/Keep Left Sign
  - Left (Right) Turn Only Lane Sign/Straight Through or Left (Right) Turn Only Lane Sign/Right or Left Turn Lane Only Sign/All Movements Permitted

Lane Sign/Straight Through Lane Only Sign/Double Right (Left) Turn  
 Only Sign/Straight Through & Double Left (Right) Turn Only Sign/Two  
 Way Left Turn Lane Sign/Three Lane Turn Movements Sign  
 Compulsory Roundabout Sign/Traffic Circle Sign  
 Compulsory Cycle Track Sign/Compulsory Foot-Path Sign/Compulsory  
 Track for Riders on Horseback Sign/Compulsory Minimum Speed Sign/  
 End of Compulsory Minimum Speed Sign/Snow Chains Compulsory Sign  
 Do Not Block Crossing Sign  
 Intersection Lane Control Signs  
 Lane-Use Control Signs  
     Mandatory Movement Signs/Optional Movement Signs/Mandatory Turn  
     Sign/Double Turn Sign  
 Mandatory Movement Lane Control Sign/Optional Movement Lane Control  
 Sign/Advance Intersection Movement Lane Control Sign  
     Supplemental Plaques: Left Lane/HOV+2/Taxi Lane/Center Lane/Right  
     Lane/Bus Lane/Left Two Lanes  
 Two Way Left Turn Only Sign/Center Lane-Left Turn Only Sign  
 Passing Lane Ahead Sign  
 Preferential Lanes Sign  
 Begin Right Turn Lane Yield to Bikes  
 Right (Left) Lane Must Turn Right (Left) Sign  
 Signs for Uphill Traffic Lane  
 Slow Moving Traffic Lane Signs  
 Signs Indicating a Regulation or Danger Warning Applying to One or More  
 Traffic Lanes  
     Compulsory Minimum Speed Applying to Different Lanes Sign/  
     Compulsory Minimum Speed Applying to One Lane Sign/Speed Limits  
     Applying to Different Lanes Sign  
 Signs Indicating Lanes Reserved for Buses  
 Slower Traffic Keep Right Sign/Trucks Use Right Lane Sign/Truck Lane\_\_  
 Sign/Keep Right (Left) Signs  
 Snowmobile Route Sign/Snowmobile Prohibition Sign  
 Truck Route Sign/All Trucks Commercial Vehicles Next Right Sign  
 Lane Use Restriction Sign  
 Yield Centre Lane to Opposing Traffic Sign

One Way Sign/One-Way Signs  
 Tunnel Sign  
 Keep Left (Right) Dual Carriageway Sign/Turn Left (Right) One Way Only Sign  
 Keep Left Sign/Turn Left Sign/Keep Left of Island Sign  
 Keep Right Except to Pass Sign  
 Left Lane for Passing Only Sign  
 One-Way Sign (II)  
 Overhead Preferential Only Lane/Preferential Only Lane Sign  
 Preferential Only Lane Sign for High-Occupancy Vehicles (HOV) Sign  
 Reversible Lane Control Sign  
 Road (Street) Closed Sign/Road Closed\_\_Miles Ahead -- Local Traffic Only Sign/Road-Closed Sign/Road Closed to Thru Traffic Sign  
 Slower Traffic Keep Right Sign/Slower Traffic Keep to Right Sign  
 Slower Traffic Use Right Lane Sign  
 Entry Only-One Way Street Sign  
 Travelpath Restrictions Sign  
 Standing & Parking Signs (3B5)  
 Standing & Parking Signs  
 Emergency Parking Sign  
 Parking Prohibited Signs/Standing & Parking Prohibited Signs/Alternate Parking Sign/Limited Duration Parking Zone Sign/Parking Signs  
 Handicapped Parking Sign  
 Limited Direction Parking Zone Exit Sign  
 Restricted Stopping & Waiting Sign  
 Waiting on Alternate Sides Sign  
 Parking Sign  
 Parking Prohibited Zone Sign/Parking Prohibited at Certain Times Zone Sign/Parking Zone Sign/End of Parking Prohibited Zone Sign/End of Parking Zone Sign  
 No Parking Sign/Restricted Parking Sign/No Parking & No Stopping Signs  
 No Parking Sign/No Waiting Sign/Parking Sign/Prohibition of Parking Sign  
 Waiting Prohibited Sign/Stopping Prohibited Sign  
 No Parking Sign/No Parking\_\_To\_\_Sign/No Parking Except Sundays & Holidays Sign/No Stopping Or Standing Sign/One Hour Parking Sign/

No Parking Loading Zone Sign/No Parking Bus Stop Sign/No Standing  
 Anytime Sign  
 No Parking on Pavement Sign/No Stopping on Pavement Sign/No Parking  
 Except on Shoulder Sign/No Parking Sign/Emergency Stopping Sign/  
 Emergency Parking Only Sign  
 No Waiting This Side Today Sign/Waiting to Limited To\_\_In Any Hours  
 Sign  
 No Parking Sign/Parking Sign  
 No Parking Sign/Bike Lane Sign  
 Multiple Parking Control Sign  
 No Parking/Bicycle Lane Sign  
 Parking Prohibition Signs in Rural Districts  
 Parking, Standing, & Stopping Sign  
 Rural Parking Control Signs  
     Rural Parking Control Sign  
     Rural Stopping Control Sign  
 Snow Route Sign  
 Stopping Is Prohibited Sign  
 Urban No Stopping Sign  
     Stopping Control Sign  
     Rush Period Stopping Control Sign  
     Part Time Stopping Control Sign  
 Urban Parking & Stopping Sign  
 Urban Parking Control Sign  
     Parking Control Sign  
     Part-Time Sign  
     Parking Sign  
 Pedestrian Crossing Sign (3B6)  
     Cross Ony at Cross Walks Sign  
     Emergency Restriction Sign  
     In Street Pedestrian Crossing Sign  
     No Pedestrian Crossing Sign  
     Pedestrian Corridors Sign  
     Pedestrian Crossing Sign  
     Pedestrian Crosswalk Sign/Playground Crossing Sign/School Crossing Sign

- Reserved Parking for Persons with Disabilities Sign
- Use Ped Signals Sign
- Yield to Peds Sign
- Use Cross Walk Sign
- Unsignalized Pedestrian Crosswalk Sign
- Cross on Green Light Only
- Cross on Walk Signal Only
- Push Button for Green Light
- Push Button for Walk Light
- Yield Here to Pedestrian Sign
- Miscellaneous Regulatory Signs (3B7)
  - Signing for Civil Defense/Emergency Management Signing
    - Evacuation Route Sign/Evacuation Route Sign
  - Area Closed Sign
  - Traffic Regulation Post Sign/Traffic Control Point Sign
  - Emergency Speed Sign/Maintain Top Safe Speed Sign
  - Road Use [1961 has Priority instead of Road Use] Sign/
    - Road (Area) Use Permit Required for Thru Traffic Sign
  - Emergency Aid Centers Sign
    - Decontamination Center Sign
    - Registration Center Sign
    - Welfare Center Sign
    - Medical Center
  - Fallout Shelter Directional Sign/Shelter Directional Sign
    - Emergency Shelter Sign/Chemical Shelter Sign/Fallout Shelter Sign/
    - Hurricane Shelter Sign
  - Bicycle Lane Signs
    - Bicycle Lane Ahead Sign
    - Right Lane Bicycles Only Sign
    - Bicycle Lane Ends Sign
  - Do Not Stop on Tracks Sign
  - Hazardous Cargo Sign/Hazardous Materials Sign
  - No Hitchhiking Sign
  - Photo Enhanced Sign
  - Shared-Use Path Restriction Sign

Stay in Lane Sign  
 Stop Here on Red Sign  
 Track Out of Service Sign  
 Traffic Laws Photo Enhanced Sign

1A2 Alphabetical Index

All Movements Permitted Lane: Left (R)	164-65
No About -Turns (U-Turns) Prohibited Signs: No Left Turn	156
Additional Panels	150, 162
All Trucks Commercial Vehicles Next Right Signs:	
Truck Route	169
Alternate Parking Signs: Parking Prohibited	172
Area Closed: Signing for Civil Defense	181
Axle Weight Limit ... Tons: Weight Limit	155
Begin Right Turn Lane Yield to Bikes	167
Bicycle Lane Sign/Bicycle Lane Ahead Sign/Right Lane Bicycles Only Sign/Bicycle Lane Ends Sign	181
Bikes, Trucks, Motor Cycles Prohibited: No M.V.	153-54
Center Lane - Left Turn - Only Sign: Keep Your	164
Center Lane - Left Turn - Only Sign: Two Way Left	167
Civil Defense Signs: Signing for Civil Defense	181
Closed to All Vehicles in Both Directions/Closed to All Vehicles Signs	152
Commercial Vehicles Next Right Sign: Truck	162
Commercial Vehicles Signs: No Motor Vehicles	153-54
Commercial Vehicles with Lugs Prohibited: No M.V.	153-154
Compulsory Circulation Sign (I)	163
Compulsory Circulation Sign (II)	163-64
Compulsory Cycle Track/Compulsory Foot-Path Sign/Compulsory Minimum Speed Sign.Compulsory Track for Riders on Horseback Sign	165
Compulsory Minimum Speed Applying to Different	

Lanes/Compulsory Minimum Speed Applying to One Lane Sign: Signs Indicating	168
Compulsory Roundabout Signs	165
Cross on Green Light Only Sign/Cross on Walk Signal Only Sign	180
Cross Only at Cross Walks Sign	178-179
Customs Signs: Stop Customs	160-161
Cycling Prohibited: Motor Traffic Prohibited Sign	153
Dangerous Goods Prohibition Sign	160
Direction Prohibited Sign	151-152
Direction to be Followed Sign	163
Disabled Person Parking Sign: Handicapped	173
Divided Highway Crossing Sign	164
Do Not Block Crossing Sign	165
Do Not Block Crossroads Sign	157
Do Not Enter Sign	151
Do Not Pass Signs	158
Do Not Stop on Tracks Signs	181
Double Turn Signs	166
Driving of Vehicles Less Than ... Metres (... Yards) Apart Prohibited Signs	155
Emergency Aids Centers Signs	181
Emergency Parking Only: No Parking	176
Emergency Parking Sign	172
Emergency Restriction Sign	179
Emergency Stopping Sign: No Parking On	176
End of Compulsory Minimum Speed: Compulsory	165
End ... Mile Speed Sign	161-2
End of all Local Prohibitions Imposed on Moving Vehicles Sign	161
End of Parking Zone Sign/End of Parking Prohibited Zone Sign: Parking Prohibited	174



End of Prohibition of Overtaking Sign	161
End of Speed Limits: End of All	161
Entry Only - One Way Street Sign	172
Evacuation Route Marker: Signing	181
Evacuation Route Sign	181
Except Buses & Cyclists Plaques	151
Exclusion Category of Vehicles Forms	152
Fallout Shelter Directional Sign/Shelter Directional Signs/Emergency Shelter Signs/Chemical Shelter Signs/Fallout Shelter Sign/Hurricane Shelter Signs	181
Fines Higher Plaque	160
Give Way Sign/Yield Sign	148
Halt at Major Road Ahead Sign	150
Handicapped Parking Sign	173
Hazardous Cargo Sign/Hazardous Materials Sign	182
Horn Blowing Prohibited Sign: Use of Audible	161
Inspection Signs	162
Intersection Lane Control Sign	165
In Street Pedestrian Crossing Sign	179
Keep Left (R) Dual Carriageway Sign	170
Keep Left Sign/Turn Left Sign/Keep Left of Island Sign	170
Keep Right Sign/Keep Left Sign	164
Keep Straight Ahead Sign: Keep Your	164
Keep Your Right Sign	164
Keep Right Except to Pass Sign	170
Keep Right (Left) Sign: Slower Traffic	168
Lane-Use Control Signs	165-66
Lane Use Restriction Sign	169
Left Lane for Passing Only Sign	170

Left (R) Turn Only Sign/Straight Through or Left (R)/ Turn Only Lane Sign	164-165
Limited Duration Parking Zone Exit Sign	173-174
Maintain Top Safe Speed: Signing for Civil Defense	181
Mandatory Movement Sign/Optional Movement Sign/ Mandatory Turn Signs/Double Turn Sign	166
Mandatory Signs	146, 163
Mandatory Movement Lane Control Sign/Optional Movement Lane Control Sign/Advance Intersection Movement Lane Control Signs [& Supplemental Plaques: Left Lane/HOV+2/Taxi Lane/Center Lane/Center Lane Right Lane/Bus Lanes Left Two Lane	166-167
Maximum Load Sign/Maximum Length Permissible Sign/Maximum Height Sign/Maximum Load Per Axle Sign/Maximum Width Sign	155
Maximum Height of Vehicles Sign: Weight limit	155
Maximum Speed Limited to the Figure Indicated Sign	158
Maximum Speed Zone Sign	158
Maximum Width of Vehicles Sign: Weight Limit	155
Messages	146-148
Minimum Speed Limit Sign	159
Miscellaneous Regulatory Sign	181
Miscellaneous & Single Forms	155-56
Miscellaneous, Single Forms, & End of Prohibitive on Restrictive Signs	160
Motor Traffic Prohibited/Sign Motor Lorries Prohibited Sign/Cycling Prohibited Sign/Riding Horse Prohibited/Motorcycling Prohibited Sign	153
Multiple Parking Control Sign	177
Night Speed Limit Sign: Truck Speed	159-160
No About Turn (U-Turns): No Left	156
No Animal-Drawn Carts Signs: No Trucks	153

No Bicycle Sign: No Trucks	153
No Entry Sign	151
No Entry for Any Power Driven Vehicle Sign Drawing a Trailer Other Than a Semi-Trailer or a Single Axle Trailer/... Motor Cycles/...Cycles/...Mopeds/... Good Vehicles/...Any??/...Pedestrians or Animal-Drawn Vehicles/...For Handcarts/...Power Driven Agricultural Vehicle/...Vehicles Carrying Dangerous Goods For Which Special Sign Plating is Prescribed Sign Preciscribed Sign/No Entry for Any Power Driven Vehicle Except Two-wheeled Motor Cycles w/o Side Car Sign	152-153
No Entry for Goods-Carrying Vehicles Sign/No Entry for Bicycles Sign/No Entry for Motor Vehicles Signs	153
No Entry for Vehicles Having an Axle Weight Exceeding Tones __Weight Limit Sign: Weight Limit	155
No Entry for Vehicles Having an Over-all Width Exceeding...Metres (...Feet) Sign/No Entry for Vehicles Having a Height Exceeding ... Metres (...Feet) Sign/ No Entry for Vehicles Exceeding ...Tons Laden Weight Sign/No Entry for Vehicles Exceeding...Tons on One Axle Sign/No Entry for Vehicles or Combination of Vehicles Exeeding...Metres (...Feet) in Length Sign	154-55
No Animal-Drawn Carts: No Trucks	153
No Bicycles Signs: No Motor Vehicles	153-154
No Bicycles Signs: No Trucks	153
No Farm Machinery Sign: No Trucks	153
No Hitchhiking Sign	182
No Left Turn Sign	156
No Motor Vehicles Signs	153-154
No Overtaking Sign	158
No Parking Sign	174-176
No Parking/Bike Lane Sign	176
No Parking Bus Stop Sign: No Parking	175-176
No Parking & No Stopping Sign: No Parking	174-175

No Parking__to__Sign	175-176
No Parking Except on Shoulder Sign: No Parking	176
No Parking Except Sunday & Holiday Signs : No Parking	175-176
No Parking Loading Zone Sign: No Parking	175-176
No Parking on Pavement Signs	176
No Parking Sign/Bike Lane Signs	176-177
No Parking Sign/Bicycle Sign	177
No Parking Sign/Parking Sign	176
No Passenger Cars Signs: No Trucks	153
No Pedestrian Crossing Signs	179
No Right Turn Sign: No Left	156
No Right Turn on Red Traffic Signal	157
No Trucks Sign	153
No Trucks Sign: No Motor Vehicle	153-154
No Trucks Over Lbs Empty Weight Limit Sign: Weight	155
No Turns Sign: No Left	156
No Turn Sign	157
No Turn on Red/Right Turn on Red After Stop Sign	157
No U-Turns Sign: No Left	156
No Standing Anytime Sign: No Parking	175-176
No Stopping on Pavement Sign: No Parking	176
No Stopping or Standing Sign: No Parking	175-176
No Waiting Sign: No Parking	175
No Waiting This Side Today Sign	176
One Hour Parking Sign: No Parking	175-176
One Way Sign/One-Way Sign	169-170
One Way Sign [II]	170-171
Optional Movement Sign: Mandatory	166
Overtaking Prohibited Sign/Overtaking by Goods Vehicle Prohibited Sign	157-158
One-way & Both Direction Forms	151
Overhead Preferential Only Lane Sign/Preferential Only Lane Sign	171

Parking Sign	174, 175, 176
Parking Control: Urban Parking	178
Parking Limit: Urban Parking	178
Parking Prohibited Zone Sign/End of Parking Prohibited Zone Sign/Parking Prohibited Zone Sign/Parking Prohibited at Certain Times Zone Sign/Parking Zone Sign	174
Parking Prohibited Signs/Standing & Parking Prohibited Signs/Alternate Parking Sign/Limited Duration Parking Zone Sign/Parking Sign	172-173
Parking Prohibition Signs in Rural Districts Signs	177
Parking Signs in Rural Districts	177
Parking, Standing and Stopping Sign	177
Part Time: Urban Parking Control	178
Part Time Stopping Control Sign: Urban	178
Pass This Side Sign	164
Passing Lane Ahead Sign	167
Passing Without Stopping Prohibited Sign	160
Pedestrian Corridor Sign	179
Pedestrian Crossing Sign	179
Pedestrian Crosswalk Sign	179-180
Pedestrians & Bicycles Prohibited Sign: No Motor	153-154
Pedestrians, Bicycles, Motor-Driven Cycles Prohibited Sign: No Motor Vehicles	153-154
Pedestrians Excluded Signs: No Motor Vehicles	153-154
Pedestrians to the Left Sign: Keep Your	164
Photo Enhanced Signs	182
Play Street: Prohibited All Vehicles__to__Unless Calling at Premises in the Streets Signs	154
Playground Crossing Sign: Pedestrian Crosswalk Sign	179-180
Preferential Lane Sign	167
Preferential Only Signs for High-Occupancy Vehicle (HOV)	171
Priority Signs	146, 148
Priority Road Signs/End of Priority Sign	150

Prohibition & Restriction of Entry Signs	151
Prohibitory & Restrictive Signs	150-151
Prohibitory & Restrictive Signs: Speed Limit Signs	158
Prohibitory & Restrictive Signs: Turns and U-Turns	156
Prohibitory & Restrictive: Overtaking (Passing) Signs	157
Prohibition of Parking Signs: No Parking Signs	175
Prohibitory or Mandatory Signs/Prohibitory and Mandatory Signs	146
Prohibitory Signs	146
Push Button for Green Light Sign/Push Button for Walk Light Sign	180
Reduced-Speed MPH Sign: Speed Zone	159-160
Reduced Speed Ahead Sign: Speed Zone Sign	159
Regulatory Signs	145-146
Reserved Parking for Persons with Disabilities Sign	180
Restricted Parking: No Parking Sign	174-175
Restricted Stopping or Waiting Sign	174
Reversible Lane Control Sign	171
Riding Horses Prohibited Signs: Motor Traffic	153
Right or Left Turn Lane Only Sign: Left (R)	164-165
Right (Left) Lane Must Turn Right (Left) Sign	167
Road (Street) Closed Sign/Road Closed to Thru Traffic Sign/Road Closed__Miles Ahead - Local Traffic Only Sign/Road-Closed Sign	171
Road Use Permit Regulations for Thru Traffic Sign: Signing for Civil Defense	181
Rural Parking Control Sign/Rural Stopping Control Sign	177
School Crossing Sign: Pedestrian Crosswalk	179-180
Selective Exclusion Signs	154
Shared-Use Path Restriction Sign	182
Signing for Civil Defense/Emergency Management Signing	181
Signs for Uphill Traffic Lane	167

Signs Giving Definite Instruction	146
Signs Giving Definite Information	146
Signs Indicating a Regulation or Danger Warning	
Applying to One or More Traffic Lanes Sign	168
Signs Indicating Lanes Reserved for Buses	168
Silence Sign	161
Slow - Major Road Ahead Sign	149
Slow Moving Traffic Lanes Sign	168
Slower Traffic Keep Right Sign	168
Slower Traffic Keep Right Sign/Slower Traffic Keep to Right Sign	171
Slower Traffic Use Right Lane Sign	171
Snow Chains Compulsory Sign: Compulsory	165
Snowmobile Route Sign/Snowmobile Prohibition Sign	169
Snow Route Conditions Sign	177-178
Speed Limit__& Minimum Speed Limit: Speed Zone Sign	159
Speed Limit Applying to Different Lanes Signs: Sign Indicating	168
Speed Limit Sign/Speed-Limit Sign	158-159
Speed Limit De-Restriction Sign	161
Speed Limit 30 MPH Sign/30 MPH Speed Limit Sign	159
Speed Zone Ahead Sign	159-160
Standing & Parking Sign	172
Stay in Lane Sign	182
Stop, Children Crossing Sign	150
Stop (Customs) Sign	160-161
Stop Here on Red Sign	182
Stop Near Customs Sign: Stop (Customs)	160-161
Stop Sign	149-150
Stopping is Prohibited Sign	178
Stopping Prohibited Sign	158
Stopping Prohibited: Waiting Prohibited Sign	175
Straight Through Lane Only Sign To Double Left (Right) Turn Only: Left (R)	164-165

Supplemental Plates/Plaques	
Four-Way Plaque/All Way Plaque/Left Lane	149-150
HOV+2/Taxi Lane/Center Lane/Right Lane/Bus Lane/Left Two Lanes: Mandatory Movement	166-167
30 MPH Speed Limits Sign: Speed Limit	159
Three Lane Turn Movement Sign: Left (R)	164-165
To Oncoming Traffic Sign	148, 149
Track Out of Service Sign	182
Traffic Circle Sign: Compulsory	165
Traffic Control Point Sign: Signing For	181
Traffic Laws Photo Enhanced Sign	182
Traffic Prohibition Sign	154
Traffic Regulation Post: Signing for Civil Defense	181
Travelpath Restriction Sign	172
Trucks Excluded Signs: No Motor Vehicle	153-154
Truck Inspection Station Sign/Truck Inspection Station Advance Sign/Truck Inspection Station Exit Sign	162
Truck Lane__Feet Signs: Slower Traffic	168
Truck Maximum Sign: Truck Speed	159
Truck Route Sign	169
Truck Speed Limit Sign	159-160
Trucks to Right-Lane Sign: Keep Your	164
Trucks Use Right Lane Sign: Slower Traffic	168
Tunnel Sign	170
Turn Left (R) Sign	156
Turn Left (Right) One Way Only Sign: Keep Left	170
Turn Left Only Sign/Turn Right Only Sign: Keep Your	164
Turning to the Left (Right) Prohibited Sign: No Left	156
Turns & U-Turns Sign	156
Two Way Left Turn Only Sign: Left (R)	164-165
Two Way Traffic Ahead Sign: Keep Your Right	164
Two Way Left Turn Only Sign	167
Unsignalized Pedestrians Crosswalk Sign	180



Urban No Stopping Sign/Stopping Control Sign/Rush Period Sign/Stopping Control Sign/Part Time Stopping Control Sign	178
Urban Parking & Stopping Sign	178
Urban Parking Control Sign/Parking Control Sign/ Part Time Sign/Parking Limit Sign	178
Use of Audible Warning Devices Prohibited Sign	161
Use Cross Walk Sign	180
Use Ped Signals Sign	180
U-Turn Prohibition Sign: No Left	156
Vehicular Exclusion: Weight, Height & Length Forms	154
Vehicular with Lugs Prohibited: No Motor Vehicles	153-154
Waiting Limited To__In Any Hour Sign	176
Waiting on Alternate Sides Sign	174
Waiting Prohibited Sign	175
Weight Limit Sign	155
Weight Limit...Tons Sign	155
Weight Limit...Tons Per Axle...Tons Gross Sign: Weight Limit	155
When Passing Worker Plaque	162
Wrong Way Sign	152
Yield Signs: Give Way	148
Yield Centre Lane to Opposing Traffic Sign	169
Yield to Peds Sign	180
Yield Here to Pedestrian Sign	180

## 3B Regulatory Signs

### 3B1 Introduction, Overarching/Sub-Overarching Terms and Messages

a) General Note. Regulatory Signs are generally known by this term without regard to system. Some past systems employed very different terms. Some systems follow a unitary notion of Regulatory Signs while other systems used categories of terms. Some regulatory systems focus on motorists and the response they are to execute; others systems focus more on a traffic and environment based approach. In the League of Nations and United Nations systems there have been historically two basic phases: prohibitions (acts not to be performed) and mandatory (acts that must be performed. Early terms included Signs Giving Definite Information divided into Signs Prohibiting Passage, and Signs Indicating an Obligation LN 1931). LN 1939 employed the sub-category terms as a general term: Prohibitory or Mandatory with each word as a subdivision. UN 1949 named the category Signs Giving Definite Instructions divided into Prohibitory and Mandatory Signs while UN 1968 employed the general term of Regulatory Signs but excluded certain specialized forms. UN 1968 added Priority Signs as a new sub-category.

Older editions of US MUTCD divided Regulatory Signs into Series including Right-of-Way, Speed, Movement, Parking, Pedestrians. That structure has value though it does not dominate the classification of this study. Canada divides these Signs into Right-of-Way Control Signs and Road Use Control Signs. UN GERSS has a simple division of Stop Signs, and Other Signs.

### b) Overarching and Sub-Overarching Terms

#### REGULATORY SIGNS.

Classification #: 432

Form of Aid: Unlighted TCD Aid

Operation; Vertical Signboards provide visual information through shape, color, symbols.

Comments: This category of sign provides information on traffic laws and regulations. Priority, prohibition and mandatory are major phases of these Signs.

A diverse range of terms have been employed for these Signs. The introductory paragraph of this chapter provides an overview.

References: UN GERSS 1952, US MUTCD editions

**SIGNS GIVING DEFINITE INSTRUCTIONS.** UN 1949 employed this term for what have become known as Regulatory Signs. The term was divided into Prohibitory and Mandatory Signs.

Reference: UN 1949

**SIGNS GIVING DEFINITE INFORMATION.** LN 1931 included this term which was divided into Signs Prohibiting Passage, and Signs Indicating an Obligation.

Reference: LN 1931

**PRIORITY SIGN.** A sub-overarching term first included by UN 1968. It covers a range of signs which relate to priority of traffic more than issues of mandatory action or prohibited actions.

Reference: UN 1968

**PROHIBITORY OR MANDATORY SIGNS/PROHIBITORY AND MANDATORY SIGNS.** These terms suggest major subdivisions of Regulatory Signs. However, they constitute a single category with each term separately representing one major phase of what has become known as Regulatory Signs. LN 1939 includes the first term, and CASATC the second.

References: LN 1939, CASATC 1950

**PROHIBITORY SIGNS.** This is a major sub-overarching term. It includes Signs calling for prohibition of an action.

Reference: UN 1949

**MANDATORY SIGN.** This sub-overarching term signifies actions that are to be carried out by motorists.

Reference: UN 1949

c) Messages

Messages are often specific to a given Sign. Nonetheless, information about messages for the categories of Signs in various systems can provide an general overview of that topic.

UN GERSS 1952 recommends a disc with light ground and darker border. Graphic or alphanumeric symbols are in darker colors. Rectangular plates follow a similar pattern. UN ECAFE 1964 follows a similar pattern though more specific: round plates with white or light yellow ground and red border with dark or black symbols. The presence of oblique bar indicates prohibition. The lack of the bar indicates a limitation or may call for compulsory action. Stop Signs have a variant pattern for both systems.

IAMM 1967 calls for round plates with white ground and black symbols and red border. Red oblique bars are added when needed. Canada 1976 employs rectangular plates (vertical axis primary) with white ground, and black borders and symbols. Turn Control Signs are square in shaped with white ground and black symbols. Those with red circle denote prohibition. While those with mandatory instructions display a green annular ring. Stop, Yield, Parking are at variance in shape, color and design. US MUTCD generally use rectangular-shaped plates with emphasis on vertical dimension. Grounds are white with black symbols and rim.

UN 1968 Signs are circular, with white or yellow ground, black symbols and red border for Prohibitive and Restrictive Signs. Oblique bars are red. Priority Signs are diamond-shaped with black rim, white bars and yellow or orange center. Mandatory Signs are circular with blue ground and symbols in white or light color. Standing and Parking Signs are circular with blue ground, red border and red oblique bars. The older UN 1949 instructions were similar though yellow became light yellow, and Mandatory Signs were white only for symbols.

LN 1931 for Signs Prohibiting Passage had red discs and white or pale yellow center. Signs Indicating an Obligation consisted of a disc for Direction to be Followed Sign which displayed an arrow. Colors were not specified save that red was not to dominate. The disc could be entirely in blue. The second Sign, Stop Near a Customs-House was a disc in red with circular white or pale yellow center.

A "dark horizontal stroke" and the word "Customs" completed the Sign. LN 1939 employed a red disc with white or yellow center. One-way or all entry prohibited signs included a horizontal bar. Mandatory Signs had a blue disc with white or yellow center for figure or arrow.

### 3B2 Priority Signs

#### PRIORITY SIGNS.

Classification #: 4320

Form of Aid: Unlighted TCD Aid

Operation: Messages displayed on Signboards. Message configurations were diverse because these Signs include singular Signs (e.g. Give Way/Yield Sign) as well as Signs following Regulatory patterns for given systems.

Comments: UN 1968 has created a new category of Signs termed Priority Signs that bridges some of the Signs of the Regulatory and Warning categories. The Stop Sign, the Yield/Give Way Sign, and Signs regulating the priority of vehicles are all part of this segment. While others systems may have created a subdivision for the Stop Sign and Yield Sign they do not have a priority group. The UN category is partly adopted for the Database; however, Warning Signs for priority use are found within the Warning category.

GIVE WAY/YIELD SIGN. This Sign requires stopping when traffic is present on intersecting routes. The Sign is triangular in shape with a single point downwards. UN 1968 refers to it as having a white ground and red border without other symbols. The IAMM 1967 version has a somewhat narrow border when Yield (or Ceda El Paso) is added and a wider one when no words are included. US MUTCD 1971 and newer versions have a very wide border that could nearly be considered as a ground color with a white insert and rim. The older Yield Sign displayed a yellow ground with black rim and the word "Yield" in black. ECE 1995 has a Give Way Sign similar to UN 1968 except that ECE permits a yellow ground. The Give Way Sign is not found in older system. Wainright notes that the Sign is nearly universal in scope.

References: IAMM 1967, US MUTCD 1971, ECE 1995, Wainright 2005

TO ONCOMING TRAFFIC SIGN. US MUTCD 2003 includes the Yield Sign

(No. R1-2) and To Oncoming Traffic Sign (No. R1-2A) but seemingly without explanation for the second Sign. It does not appear in previous editions.

Reference: US MUTCD 2003

**SLOW-MAJOR ROAD AHEAD SIGN.** UK included this Sign in OBS. It displays the triangle within circle from LN followed by message consisting of the word Slow followed by broad black horizontal bar intersected by a narrow vertical bar (akin to that of a Priority Road Sign) and concluded with the words "Major road ahead." The Sign may constitute a form of Yield. UK MOT and Noble 1946 also include this Sign.

References: OBS 1950, UK MOT, Noble 1946

**STOP SIGN.** This Sign indicates that a full stop is required before entering the intersection. UN 1968 has two models of the Stop Sign: the American model and the European model. Often times the European model is the first model though not in this instance. The first model is octagonal in shape with white rim, red ground, and the word "Stop" in white. The second model is circular in shape with a white or yellow ground with red border. Within this model is the Give Way Sign (Triangle with red border) and within that is the word "Stop." IAMM 1967 employs the American model. UN GERSS 1952 also adopted that model but added a black horizontal bar with vertical insert upon which the word "Stop" is printed in white; the ground color is also white. ECAFE 1964 employs the GERSS version. According to IAMM 1981 approves a choice of four words for the Stop message: Stop, Alto, Arrete, or Parada. UN 1949 employs the European model. LN 1939 has a similar Sign though it was classified as a Warning Sign. UN ECE 1995 has adopted the American model. OBS 1950 adopted the European model and added a plate with white ground, black rim and the word inscription: Halt at Major Road Ahead. CASATC 1950 deploys a disc with red border and white ground and a rectangular plate with the word "Stop."

References: UN 1968, IAMM 1967, UN GERSS 1952, ECAFE 1964, UN 1949, OBS 1950, LN 1939, CASATC 1950, US MUTCD editions

Stop Signs can be augmented by plates:

**SUPPLEMENTAL PLATES/PLAQUES:**

**FOUR-WAY PLAQUE.** Indicates number of intersections involved.

ALL WAY. Plaque can be used in place of Four-Way Plaque  
References: US MUTCD newer editions employ Plaques; older use Plates

HALT AT MAJOR ROAD AHEAD. This is the UK version of the Stop Sign. It combines the European model of the Stop Sign with a plate displaying white ground, black rim and a word inscription. See also Stop Sign.  
Reference: OBS 1950

PRIORITY ROAD SIGN/END OF PRIORITY SIGN. The first Sign denotes priority or right of way; the second indicates cessation of priority. These are apparently found only in UN 1949 and UN 1968. The first Sign is diamond shaped ("square with one diagonal vertical"). with black rim, white border, yellow or orange center. End of Priority Sign displays the same pattern with a black or gray band running diagonally across the plate. The band can also consist of black or gray lines.  
References: UN 1949, UN 1968

ADDITIONAL PANELS. ECE provides Additional Panels or supplemental plates denoting priority routes. The symbols display a segment of roadway at intersections with black symbols on white ground.  
Reference: ECE 1995

STOP, CHILDREN CROSSING SIGN. This Sign from Noble is a Regulatory Sign of the Mandatory form. Details on the message dimensions are lacking.  
Reference: Noble 1946.

### 3B3 Prohibitory & Restrictive Signs

#### PROHIBITORY & RESTRICTIVE SIGNS.

Classification #: 4321

Form of Aid: Unlighted TCD Aid

Operation. Messages displayed visually through vertical Signboards according to established message systems.

Comments: Older European systems included Prohibition and Mandatory forms. UN 1968, a more global system, includes restrictions as well as prohibitions of

behavior by motorists.

a) Prohibition & Restriction of Entry Signs

1) One-Way & Both Direction Forms

**NO ENTRY SIGN.** This Sign indicates entry prohibited for all vehicles. This Sign has two models. One displays a solid red disc save a horizontal white bar. The other displays a vertical black arrow with oblique bar. This Sign has a white or yellow ground with wide red border. There are alternate names for this Sign as the following discussion will indicate. Older European forms are very similar though LN 1928 has a full-width bar and a supplemental plate indicating No Entry. LN 1928 also offered an alternate form with No Entry painted on the disc. OBS 1950 employed a red disc with white bar, white border and black rim. No entry was embossed on the white bar in black letters. CASATC apparently did not include this Sign. Wainright regards this as a second sign that is nearly global in usage. References: LN 1928, OBS 1950, CASATC, Wainright 2005

**DO NOT ENTER SIGN.** This Sign is the equivalent of the No Entry Sign. US MUTCD 1961 employed the word inscription form with this Sign: a square Sign plate with white ground, black rim and the words "Do No Enter" in black. US now follows the UN pattern though the words "Do No Enter" are added. A supplemental plate with the words One Way may be added. A Wrong Way supplemental plate with white words on red ground was added by US MUTCD 1971. It is also included by Canada 1985. Canada 1976 included Educational Tabs for Signs in transition from word to graphic forms; these have been dropped. Reference: US MUTCD 1961, Canada 1985

**EXCEPT BUSES & CYCLISTS PLAQUE.** A Plaque intended to be affixed to Do Not Enter Sign.  
Reference: Manitoba 2007

**DIRECTION PROHIBITED SIGN.** The No Entry Sign becomes Direction Prohibited in UN GERSS 1952. This is the mandatory Direction to be Followed Sign with an oblique bar. UN 1968 has a different design for that Sign. IAMM



1967 employs the GERSS form which follows the second model of UN 1968.  
References: UN GERSS 1952, UN 1968, IAMM 1967

**CLOSED TO ALL VEHICLES IN BOTH DIRECTIONS SIGN/CLOSED TO ALL VEHICLES SIGN.** This Sign displays the basic form of red border and white or yellow ground. There are no other symbols displayed. It is included in UN 1968 and older European systems but not found in other systems. Older sources speak of Closed to All Vehicles without actually saying "In Both Directions."

Reference: UN 1968

**WRONG WAY SIGN.** Sign first appeared in US MUTCD 1971. It supplements the Do Not Enter Sign in situations where a wrong-way entry is a distinct possibility. It has a red ground with white rim and letters.

References: US MUTCD 1971, 2003

## 2) Exclusion Categories of Vehicles Forms

**NO ENTRY FOR ... SIGNS.** These are a diverse and numerous group of No Entry Signs that follow the basic no entry pattern though indicating different categories of exclusion. These Signs include:

**NO ENTRY FOR ANY POWER DRIVEN VEHICLE EXCEPT TWO-WHEELED MOTOR CYCLES WITHOUT SIDE-CAR/  
... MOTOR CYCLES/... CYCLES/... MOPEDS/GOODS VEHICLES/...  
ANY POWER DRIVEN VEHICLE DRAWING A TRAILER  
OTHER THAN A SEMI-TRAILER OR A SINGLE AXLE TRAILER/  
...FOR PEDESTRIANS/... FOR ANIMAL-DRAWN VEHICLES/  
...FOR HANDCARTS/...POWER DRIVEN AGRICULTURAL  
VEHICLES/...VEHICLES CARRYING DANGEROUS GOODS FOR  
WHICH SPECIAL SIGN PLATING IS PRESCRIBED**

UN 1968 employs the pattern of disc with white or yellow ground, red border, red oblique bar and graphic symbols representing the object of the exclusion. Many of the graphic symbols date back to the early twentieth century though representa-

tions of autos and trucks are periodically updated. ECE 1995 contains a variant of the No Entry ... Any Power Driven Vehicle Drawing a Trailer that lacks any qualifying words. A supplemental plate with tonnage can be added to the ECE Sign. ECE 1995 adds a Sign for truck transporting dangerous goods. The Sign displays an image of a truck in orange with red circle and bar.

References: ECE 1995

NO ENTRY FOR GOODS-CARRYING VEHICLES SIGN/NO ENTRY FOR MOTOR VEHICLE SIGN/NO ENTRY FOR BICYCLES SIGN. UN GERSS 1952 includes basic forms of this category of Signs though titles may differ with those of UN 1968.

References: UN GERSS 1952, UN 1968

MOTOR TRAFFIC PROHIBITED SIGN/MOTOR LORRIES PROHIBITED SIGN/CYCLING PROHIBITED SIGN/MOTORCYCLING PROHIBITED SIGN/RIDING HORSES PROHIBITED SIGN. LN 1928 offers an alternate formulation of No Entry Signs which are at variance with other LN systems. LN 1928 employs the Double-Sign system of UK.

Reference: LN 1928

NO TRUCKS SIGNS/NO PASSENGER CARS SIGN/NO ANIMAL-DRAWN CARTS SIGNS/NO BICYCLES SIGNS/NO FARM MACHINERY SIGN. For these Signs IAMM 1967 followed the UN GERSS 1952 pattern with circular discs and oblique bars. However, Sign names are different from similar Signs of other systems.

References: IAMM 1967, UN GERSS 1952

NO MOTOR VEHICLES SIGNS/NO TRUCK SIGNS/TRUCKS EXCLUDED SIGNS/COMMERCIAL VEHICLES SIGNS/PEDESTRIANS EXCLUDED SIGNS/VEHICLES WITH LUGS PROHIBITED/COMMERCIAL VEHICLES WITH LUGS PROHIBITED/PEDESTRIANS BICYCLES MOTOR-DRIVEN CYCLES PROHIBITED SIGNS/PEDESTRIANS AND BICYCLES PROHIBITED SIGNS/NO BICYCLES SIGNS/BIKES, TRUCKS, MOTORCYCLES PROHIBITED SIGNS. US MUTCD 1961 Signs contain word inscriptions exclusively though some US MUTCD 1971 Signs use graphic symbols. US

practice expanded graphic symbols, including the use of red discs and oblique bars in 1978. There is some overlap in Sign types between IAMM 1967 and US MUTCD 1961. Canada 1985 employs pictographs. IAMM 1981 includes a Mexican Sign combining prohibition on bikes, trucks and motorcycles together. References: UN GERSS 1952, UN 1968

PLAY STREET: PROHIBITED ALL VEHICLES \_\_ TO \_\_ UNLESS CALLING AT PREMISES IN THE STREET. OBS has, apparently, one Sign in this category. The Sign follows the Double-Sign pattern of OBS. CASATC 1950 apparently has no Signs in this category. References: OBS 1950, CASATC 1950

SELECTIVE EXCLUSION SIGN. A category term for various signs that indicate types of vehicles excluded from specific roads and streets. Examples include No Trucks, No Motor Vehicles, No Bikes. Reference: US MUTCD 2000

TRAFFIC PROHIBITION SIGNS. A term for Signs that prohibit various types of vehicles and pedestrians in specific situations. The term is attached to illustrations of the types Signs involved. Reference: US MUTCD 2003

### 3) Vehicular Exclusion: Weight, Height and Length Forms

UN 1968 offers five Sign models in this category. The Sign pattern consists of a disc with red border and white or yellow ground. The oblique bar is absent.

NO ENTRY FOR VEHICLES HAVING AN OVER-ALL WIDTH EXCEEDING ... METRES (... FEET) SIGN/NO ENTRY FOR VEHICLES HAVING AN OVER-ALL HEIGHT EXCEEDING ... METRES (... FEET) SIGN/NO ENTRY FOR VEHICLES EXCEEDING ... TONS LADEN WEIGHT SIGN/NO ENTRY FOR VEHICLES HAVING A WEIGHT EXCEEDING ... TONS ON ONE AXLE SIGN/NO ENTRY FOR VEHICLES OR COMBINATIONS OF VEHICLES EXCEEDING ... METRES (... FEET) IN LENGTH SIGN. Symbols consists of numbers, word abbreviations and graphic symbols indicating

the limits covered by the Sign. All symbols are in black. UN GERSS 1952 Signs are very similar to UN 1968 Signs except there is no Sign indicating maximum weight per axle limitations.

References: UN 1968, UN GERSS 1952

WEIGHT LIMIT SIGN (LN 1931 AND 1939)/MAXIMUM WIDTH OF VEHICLES SIGN/MAXIMUM HEIGHT OF VEHICLES (Both 1939 only) SIGN/NO ENTRY FOR VEHICLES HAVING AN AXLE WEIGHT EXCEEDING ... TONS (UN 1949) SIGNS. Pre-UN 1968 systems have Signs resembling UN Signs though LN 1931 and LN 1939 refers to "Limits" rather than "No Entry" when specified limits are exceeded.

References: US MUTCD 1961, 1971, 1978

WEIGHT LIMIT ... TONS SIGN/AXLE WEIGHT LIMIT ... TONS SIGNS/NO TRUCKS OVER ... LBS EMPTY WEIGHT SIGN/WEIGHT LIMITS ... TONS PER AXLE ... TONS GROSS SIGN. US 1961 has one Sign in this category: Weight Limits ... Tons Sign. US 1971 includes the other Sign versions. US MUTCD 1978 includes a graphic version of various Signs for trucks with tonnage limits.

References: IAMM 1967, UN 1968, OBS 1950, CASATC 1950

MAXIMUM LOAD SIGN/MAXIMUM HEIGHT SIGN/MAXIMUM WIDTH SIGN/MAXIMUM LOAD PER AXLE SIGN/MAXIMUM LENGTH PERMISSABLE SIGN. IAMM 1967 Signs closely resemble those of UN GERSS 1952 (which are those of UN 1968 as well). However, the names are different. OBS 1950 and CASATC 1950 apparently lacks Signs in this category.

References: IAMM 1967, UN GERSS 1952, OBS 1950, CASATC 1950

#### 4) Miscellaneous & Single Forms

DRIVING OF VEHICLES LESS THAN ... METRES (...YARDS) APART PROHIBITED SIGN. This UN Sign follows the established format with symbols that include graphic representations of autos as well as the necessary numbers indicating spacing distance.

Reference: UN 1968

## b) Prohibitory & Restrictive: Turns & U-Turns Signs

NO LEFT TURN SIGN/NO RIGHT TURN SIGN/TURNING TO THE LEFT PROHIBITED SIGN/TURNING TO THE RIGHT PROHIBITED SIGN/NO U-TURN SIGNS/NO ABOUT-TURN (U-TURNS) SIGNS/NO TURNS SIGN/ U-TURN PROHIBITION SIGN. These Signs present selective prohibitions as well as general prohibitions. UN 1968 message configurations include: Disc with white or yellow ground, red border and oblique bar over appropriate graphic symbol of arrow to left or right or curved. UN 1949 includes identical Right Turn and Left Turn Signs but no U-Turn Sign. UN 1949 speaks of Turning to the Right or Left Prohibited rather than No Right Turn or No Left Turn. UN GERSS 1952, IAMM 1967, ECAFE 1964 all follow that basic form. UN GERSS employs the UN 1949 names while IAMM and ECAFE use No Right Turn, No Left Turn, and No U-Turn. UN GERSS speaks of an About-Turn (U-Turn) Prohibited Sign. UN GERSS allows for an expanded Sign with word inscription. Krampen 1983 includes illustrations of that form and other similar forms. This form includes a rectangular shaped plate with the basic graphic form occupying the upper part of the plate while the word inscription "No U Turn" in black letters takes up the lower portion of that plate. This holds true for No Right Turn and No Left Turn Signs.

US MUTCD 1961 displays the standard US rectangular plate with black rim, white ground and black letters denoting No Left Turn, No Right Turn, No Turns and No U Turns. US MUTCD 1978 has two plates with the word inscription in the lower plate and the UN graphic symbol in the upper plate. There are word-only forms for No Right, No Left and No U Turns. No Turns is in a word format. Two systems, OBS 1950 and CASATC 1950 apparently lack Turn Prohibition Signs.

References: UN 1968, UN 1949, UN GERSS 1952, IAMM 1967, ECAFE 1964, US MUTCD 1968, 1971, 1978

TURN LEFT (RIGHT) SIGNS. These Signs from Canada may be unique to Canada: a green annular ring encircles left or right turn arrow (annular ring indicates an action that must be carried out). White ground with black arrow. A red ring with oblique bar, of course, indicates prohibition of a course of action. Reference: Canada 1976

NO TURN SIGN. This Sign has the same format as the previous Sign from Canada. It indicates a straight passage is required. It has a white ground and a black arrow surrounded by green annular ring.

Reference: Canada 1976

NO TURN ON RED SIGN/RIGHT TURN ON RED AFTER STOP SIGN. The first Sign appears in US MUTCD 1978. It replaces the second Sign added to US MUTCD 1971.

Reference: Canada 1976

NO RIGHT TURN ON RED TRAFFIC SIGNAL SIGN. Canada 1985 adds this Sign which includes the standard right turn arrow with oblique bar and disc combined with a representation of a Traffic Signal with red lens.

Reference: Canada 1985

DO NOT BLOCK CROSSROADS SIGN. This Sign from Mexico appears in IAMM 1981. It is placed at those city intersections which use do no use Traffic Signals. In such intersections, normally used by faster moving traffic, there are frequently formed lines for vehicles which obstruct transverse traffic and this Sign addressed that problem.

Reference: IAMM 1981

#### c) Prohibitory and Restrictive: Overtaking (Passing) Signs

OVERTAKING PROHIBITED SIGN/OVERTAKING BY GOODS VEHICLE S PROHIBITED SIGN. Overtaking, a more literal meaning, is used in Europe. UN 1968 has two forms of the first Sign. The first form, within the basic Regulatory Sign model, has graphic symbols displaying a black auto and a red auto; this signifies no passing. The other model has two black autos and an oblique bar signifying no passing. The second Sign also has two models for UN 1968. The message pattern is that of the general prohibition Sign: symbols either denote a red truck and black auto, or two black vehicles but with an oblique bar. UN GERSS 1952, ECAFE 1964, IAMM 1967 all include an Overtaking Prohibiting Sign with oblique bar. None employ the two color vehicle model. However, UN

1949 displays the two vehicle form but without the bar.

Reference: UN 1968, UN GERSS 1952, ECAFE 1964, IAMM 1967, UN 1949

DO NOT PASS SIGN. US MUTCD 1961 and newer editions employ a word inscription with black letters, black rim and white ground.

References: US MUTCD 1961 and newer editions

NO OVERTAKING SIGN. CASATC 1950 has a unique form of this Sign though the meaning is unclear: A two-part Sign with white disc and red border surmounting a rectangular plate with yellow ground and a graphic symbol of a curved arrow which overlaps a graphic symbol representing a roadway. The symbols are accompanied by a directional arrow.

Reference: CASATC 1950

STOPPING PROHIBITED SIGN. This Sign denotes places where it is prohibited to take on or drop off passengers. It appears in IAMM for Mexico.

Reference: IAMM 1981.

#### d) Prohibitory & Restrictive: Speed Limit Signs

MAXIMUM SPEED LIMITED TO THE FIGURE INDICATED SIGN. The basic speed regulatory Sign has a complex title for UN 1968. The Sign follows the standard pattern but with numbers rather than graphic symbols; letters are in black.

Reference: UN 1968

MAXIMUM SPEED ZONE SIGN. This ECE 1995 Sign displays the speed in black letters with red circle on a white rectangular shaped ground accompanied by the word Zone. The end of the Zone is marked by a similar Sign except for a black circle and an oblique band of black stripes.

Reference: ECE 1995

SPEED-LIMIT SIGN/SPEED LIMIT SIGN. This is the standard title for the Signs performing this function. UN 1949 has a hyphenated version. A supplemental plate (rectangular with a red rim) can be added that denotes the beginning

of the speed limit in question. UN GERSS 1952 includes a Speed Limit Sign that is similar though the word "Miles" is added to the Sign. Krampen, in his review of UN GERSS, includes a rectangular plate with the above display augmented by the words "Speed Limit". ECAFE 1964 follows the GERSS pattern. IAMM 1967 has the basic design with either Mile or KM added to the numbers. A supplemental plate can be added denoting either "Steady" speed or "Minimum" speed. IAMM 1981 includes national practices including a variant form of Speed Sign for Uruguay: maximum speed is indicated by placing a horizontal bar above the listed speed accompanied by a downward pointing arrow. Minimum speed is indicated by the reverse practice. A fixed or steady speed has a bar above and below the listed speed without an arrow. LN 1931 and LN 1939 Sign models follow the essential pattern though KM has been added. LN 1928 offers a large rectangular Sign plate though with white ground, black rim and words and numbers in black.

References: UN 1949, UN GERSS 1952, IAMM 1967, LN 1928, LN 1931

**SPEED LIMIT 30 MPH SIGN/30 MPH SPEED LIMITS SIGN.** These Signs represent UK practice and includes the actual speed limit in the name. The Signs refer to the limit for built-up area. Noble has a variant form that excludes the word "Speed."

References: UK MOT 1950, Noble 1946

**TRUCK SPEED LIMIT SIGN/NIGHT SPEED LIMIT SIGN/MINIMUM SPEED LIMIT SIGN/TRUCK MAXIMUM SIGN.** Speed regulation Signs in US MUTCD 1961 and newer editions contains many models that follow either the basic mode of white ground and black letters or a reversed pattern of black ground and white letters. The basic is rectangular with the word inscription Speed Limit followed by the speed. A Sign for Truck Speed Limit is square with the word "Truck" and the numbers denoting speed limit. A Sign denoting night speed has a black ground, the word "Night" and the maximum speed. A final Sign indicates Minimum Speed with those words and the appropriate speed. Canada has a similar Sign for night speed limits as well as the Truck Maximum Speed Sign.

Reference: US MUTCD 1961

**SPEED ZONE AHEAD SIGN/REDUCED SPEED AHEAD SIGN/REDUCED**



SPEED MPH/SPEED LIMIT\_\_ & MINIMUM SPEED LIMIT. These are further US Signs from the US MUTCD 1971, and newer editions, offer refinements in speed regulations.

Reference: US MUTCD 1971

e) Miscellaneous, Single Forms, & End of Prohibition or Restriction Signs

DANGEROUS GOODS PROHIBITION SIGN. Canada 1985 adds a Sign prohibiting high risks products from some routes. This Sign is related to the Dangerous Goods Route Sign in the Mandatory category. This Sign displays a black diamond with red circle and oblique bar imposed over it.

Reference: Canada 1985

FINES HIGHER PLAQUE. Supplemental Plaque indicates when higher fines are imposed for violations in specified roads and streets.

Reference: US MUTCD 2003

PASSING WITHOUT STOPPING PROHIBITED SIGN. For UN 1968 and for many Europeans the technical meaning of overtaking has the meaning of Passing for those in the Western Hemisphere. Passing is mentioned in UN 1968 but it has a different meaning. The Sign indicates a prohibition against passing a customs house. The Sign displays the basic regulatory pattern. However, it lacks an oblique bar and instead contains the word "Customs" in two languages with a black horizontal bar. The Sign can be employed for other purposes when the word "Customs" is dropped and other messages are inserted; however, examples are not given.

Reference: UN 1968

STOP (CUSTOMS) SIGN/CUSTOMS SIGN/STOP NEAR CUSTOMS SIGN. Customs Signs for UN 1949 and IAMM 1967 Signs are identical to UN 1968. However, the word "Customs" may or may not be included in IAMM. The Stop Near Customs Sign of LN 1939 is also identical to UN 1949. The Customs Sign is included within the Mandatory category for LN 1931. CASATC 1950 employs the OBS style of double Sign for Customs as well as for other purposes. The Sign, described as a Restriction Notice has a disc with a white ground, red

border, and a rectangular plate in yellow with the word "Customs" in black letters.

Reference: UN 1949, IAMM 1967, UN 1968, LN 1939, UN 1949, LN 1931

USE OF AUDIBLE WARNING DEVICES PROHIBITED/HORN BLOWING PROHIBITED SIGN/SILENCE SIGN. Horn restriction Signs are listed under a variety of names. The first named Sign is from UN 1968. It follows the standard format with a graphic symbol of a horn and obliqued bar. UN GERSS 1952 and ECAFE 1961 have the second Sign. IAMM 1967 has a similar Sign under the heading of "Silence."

References: UN 1968, UN GERSS 1952, ECAFE 1961

END OF ALL LOCAL PROHIBITIONS IMPOSED ON MOVING VEHICLES SIGN/END OF SPEED LIMIT SIGN/END OF PROHIBITION OF OVERTAKING SIGN. These Signs for UN 1968 have diverse purposes. However, the Sign format has many points of commonality with a core focus within that commonality: ending of prohibitions. These Signs are circular with a white or yellow ground. There are no borders though a rim color (black) can be included. The Signs display a diagonal band running from right to left. The band can be black, dark gray, or black and gray lines forming a band. A general ending of prohibition Sign lacks any symbol denoting the object of the prohibition. An ending of speed limitation includes a speed limit beneath the band. An ending of overtaking prohibition includes symbols of autos beneath the band. UN 1949 has a very similar End of Speed Limit Sign though not illustrated. .

Reference: UN 1968

Other speed restriction cancellation Signs include:

SPEED LIMIT DE-RESTRICTION SIGN. This Sign ending restrictions is from CASATC 1950. It consists of the Speed Sign with a black "x" over the speed limited printed on the lower plate. The OBS 1950 Speed Limit Ends Sign (Derestricted Sign) is classified as a Warning or Informative category Sign.

Reference: CASATC 1950, OBS 1950

END\_\_MILE SPEED SIGN. This Sign from US MUTCD 1961 has the same

size and format as the Speed Limit Sign with the addition of the word "End" above the listed speed limits. It is omitted from US 1971. Speed zones can be ended by posting Signs with a different speed limit thereby eliminating an end of speed Sign.

Reference: US MUTCD 1961, 1971

ADDITIONAL PANELS. ECE 1995 provides supplemental plates or Additional Panels which indicate the focus of Sign. These Panels include one of truck tractor and trailer, and one of a truck with trailer. They have black symbols on white ground; an exempt version is also provided. This form displays, for example, a trolley car accompanied by the word "except" denoting the Sign pertains to all forms of vehicles except the one displayed.

Reference: ECE 1995

INSPECTION SIGN. This Sign from Mexico appears in IAMM 1981. It consists of a representation of an uniform cap and denotes an inspection site. The representation of the cap is placed within a red circle without an oblique bar. Supplemental plates can further delineate the nature of the inspection.

Reference: IAMM 1981

TRUCK INSPECTION STATION SIGN/COMMERCIAL VEHICLES NEXT RIGHT SIGN/TRUCK INSPECTION STATION ADVANCE SIGN/ TRUCK INSPECTION STATION EXIT SIGNS. The first named Sign has a perhaps curious appearance: a graphic representation of a truck accompanied by a line ending in a circle containing, apparently, a weight indicator arrow denoting a truck inspection station. The second Sign is in a word form. The third and fourth Signs replicate the first accompanied by an Advance Sign with images of truck, scales and 2 km in words. These Signs are from Canada 1985. Most US Weight Inspection Signs are in the Informative category; One Sign, All Trucks Commercial Vehicles Right, is a Regulatory Sign. It has white words on black ground.

References: Canada 1985, US MUTCD editions

WHEN PASSING WORKERS PLAQUE. A Plaque that requires reduced speed when passing workers.

Reference: Manitoba 2007

### 3B4 Mandatory Signs

#### MANDATORY SIGN.

Classification #: 4322

Form of Aid: Unlighted TCD Aid

Operation: Visual messages displayed through vertical Signboards according to established systems.

Comments: Mandatory Sign is a basic element in European systems. It also is employed by UN 1968. While not a basic term in Western Hemisphere that function is present. A variety of Lane Control Signs in US MUTCD speak of Mandatory Movements. Canada employ green annular ring for this form of Sign. This complements red rings and oblique bars for prohibitions.

References: UN 1968, LN systems, US MUTCD editions, Canada 1976

DIRECTION TO BE FOLLOWED SIGN. This UN 1968 Sign has Left, Through, Right and Through/Right versions. The arrows are large, follow a contemporary design and are sans serif. This version follows the basic Mandatory Sign pattern. However, there is an alternate which consists of a rectangular plate with focus on the horizontal dimension and white rim, black ground and white arrows. The LN systems all have a model of this Sign. While LN 1928 has a different design for the arrow the format is similar to the newer models and mirrored by UN 1968; UN 1949 has the same model. UN GERSS 1952, ECAFE 1964, IAMM 1967 has a different model of this Sign: white ground, red border associated with other Regulatory Signs and black arrows. IAMM has a different name for this Sign (see next entry).

References: UN 1968, LN systems, UN GERSS 1952, ECAFE 1964, IAMM 1967.

COMPULSORY CIRCULATION SIGN (I). This Sign, displayed at intersections, indicates direction to be followed. The symbol is of a black horizontal arrow pointing to the right. See also Compulsory Circulation Sign (II).

Reference: IAMM 1967

COMPULSORY CIRCULATION SIGN (II). This Sign follows the same pattern as the first Compulsory Circulation Sign model except that the arrow points

downward. It is displayed on obstacles within the street and denotes direction to be followed.

Reference: IAMM 1967

PASS THIS SIDE SIGN. The UN 1968 Sign is very similar in purpose to the Compulsory Circulation Sign of IAMM 1967. The IAMM Sign parallels the second model (the first model is that of the European model; the second is the American; there are a few exceptions) of UN 1968; this is similar to that of UN GERSS 1952.

References: UN 1968, IAMM 1967, UN GERSS 1952

DIVIDED HIGHWAY CROSSING SIGNS. This Sign is listed in US MUTCD 1978. It consists of a supplemental plate attached to a Stop Sign that indicates an approach to a road that is physically divided. It can also stand alone. A graphic representation of the divided highway appears on the Sign plate.

Reference: US MUTCD 1978

KEEP YOUR RIGHT SIGN/TURN LEFT ONLY SIGN/TURN RIGHT ONLY SIGN/KEEP STRAIGHT AHEAD SIGN/TRUCKS TO RIGHT-LANE/TWO WAY TRAFFIC AHEAD SIGN/PEDESTRIANS TO THE LEFT SIGNS/CENTER LANE-LEFT TURN ONLY. These Signs are found in IAMM 1967. They follow the basic UN GERSS/IAMM/ ECAFE Regulatory Sign configurations. According to IAMM 1981, Mexico follows the UN form of a representation of barrier and arrow curving to the right. Newer editions of US MUTCD also include that form. Mexico also has an updated version of graphic symbols for the Trucks to Right Sign.

References: IAMM 1967, IAMM 1981, UN GERSS 1952, ECAFE 1964, US MUTCD editions

KEEP RIGHT SIGN/KEEP LEFT SIGN. These Signs indicate the need for motorist to pass on right (or left) of obstruction or other roadway feature.

References: US MUTCD editions

LEFT (RIGHT) TURN ONLY LANE SIGN/STRAIGHT THROUGH OR LEFT (RIGHT) TURN ONLY LANE SIGN/RIGHT OR LEFT TURN LANE ONLY

SIGN/ALL MOVEMENTS PERMITTED LANE SIGN/STRAIGHT THROUGH LANE ONLY SIGN/DOUBLE RIGHT (LEFT) TURN ONLY SIGN/STRAIGHT THROUGH & DOUBLE LEFT (RIGHT) TURN ONLY SIGN/TWO WAY LEFT TURN LANE SIGN/THREE LANE TURN MOVEMENTS SIGN. This series of Signs appears in Canada 1985. They are square with white rim, black ground, and white arrows.

Reference: Canada 1985

COMPULSORY ROUNDABOUT SIGN/TRAFFIC CIRCLE SIGN. This Sign displays a graphic symbol of a curved arrow broken into segments that form a circle. IAMM contributes the term Traffic Circle; the first term is from UN 1968.

Reference: IAMM 1967, UN 1968

COMPULSORY CYCLE TRACK SIGN/COMPULSORY FOOT-PATH SIGN/COMPULSORY TRACK FOR RIDERS ON HORSEBACK SIGN/COMPULSORY MINIMUM SPEED SIGN/END OF COMPULSORY MINIMUM SPEED SIGN/SNOW CHAINS COMPULSORY SIGNS. These Signs, while focussed on divergent objects, are similar in scope and appearance except for differences in graphic symbols. These Signs are from UN 1968. UN 1949 includes only the Cycle Track and Minimum Speed Signs.

References: UN 1968, UN 1949

DO NOT BLOCK CROSSING SIGN. This is a Mexican Sign that appears in IAMM 1981. It is a rectangular-shaped Sign with horizontal emphasis. The ground is white and the letters are black.

Reference: IAMM 1981

INTERSECTION LANE CONTROL SIGNS. Term in US MUTCD 2000, 2003 that replaces older Lane-Use Control Signs. It includes Mandatory Movement Lane Control Signs, Optimal Movement Lane Control Signs, Advance Intersection Lane Control Signs.

References: US MUTCD 2000, 2003

LANE-USE CONTROL SIGNS. The US has a series of Signs under this general heading. There are also other US MUTCD 1961 and newer editions Signs that are

similar to Direction to be Followed Signs though outside the Lane-Use Control category.

MANDATORY MOVEMENT SIGNS/OPTIONAL MOVEMENT SIGNS/MANDATORY TURN SIGNS/DOUBLE TURN SIGNS. They are rectangular in shape, with white ground and black lettering and arrows. The Optional Movement type offers an option which may either call for straight through passage or a turn passage. The Mandatory Turn Sign is square in shape with white ground, black rim and black lettering or symbols. The Double Turn Sign includes a turn-only lane and a turn or straight through option.

Mandatory Movement has one Sign form: arrow and one word: "Only." Optional has a double arrow indicating either a turn or straight-through direction but without any words. Mandatory Turn has a word message: "Left (Right) Lane Must Turn Left (Right)." Double Turn Sign combines the Mandatory and Optional Movement Signs and can be either left or right.

Canada has similar Signs under the heading of Overhead Lanes. These signs are white on black instead of black on white. They lack the Double Turn Sign but have other forms including Right or Left Turn Lane form, an All Movement form, Straight Through form and a Two Left Turn Form. The last two Signs exist in US but outside the Lane-Use group.

Reference: US MUTCD 1988

MANDATORY MOVEMENT LANE CONTROL SIGNS/OPTIONAL MOVEMENT LANE CONTROL SIGNS/ADVANCE INTERSECTION MOVEMENT LANE CONTROL SIGNS. US MUTCD 2000 alters the previous named group of Signs. Mandatory becomes the core term and Lane Control is attached to that term.

Mandatory Movement Lane Control Signs includes a series of Supplemental Plaques: LEFT LANE/HOV+2/TAXI LANE/CENTER LANE/RIGHT LANE/BUS LANE/LEFT TWO LANES.

Optional Movement Lane Control Signs indicate situations where there are at least two traffic movements from a lane or to place emphasis on

permitted actions traffic movements.

Advance Intersection Lane Control Signs. These Signs give indication of traffic configuration of lanes in advance.

Reference: US MUTCD 2000, 2003

TWO WAY LEFT TURN ONLY SIGN/CENTER LANE-LEFT TURN ONLY SIGN. The first term is the current term and denotes lane in center for left turns in both directions. There are two versions: arrows only and arrows with words. The second term is an older form.

Reference: US MUTCD 1971, 1978

PASSING LANE AHEAD SIGN. This Sign was added by Canada 1985. It displays a vertical arrow with arrowhead joined by a second arrow which branches off to the right indicating a passing lane is nearby.

Reference: Canada 1985

PREFERENTIAL LANES SIGNS. These Signs first appear in US MUTCD 1978. They denote lanes that are open according to the type of vehicle or number of riders. The Signs are marked by a black box or bar containing a white diamond. The forms include: Buses & Car Pool Only\_\_Hours\_\_Days; Buses and Four Riders Car Pool\_\_Hours\_\_Days; Restricted Lane Ahead; Restricted Lane Ends.

Reference: US MUTCD 1978

BEGIN RIGHT TURN LANE YIELD TO BIKES. This US Sign refers to a Lane-Use Control Sign in which motor vehicles and bicycles share the same driving lane. The Sign has black symbols on white ground.

Reference: US MUTCD 1978

RIGHT (LEFT) LANE MUST TURN RIGHT (LEFT) SIGN. These Signs are Mandatory Turn Signs within the Lane-Use Control Sign category.

Reference: US MUTCD 2003

SIGNS FOR UPHILL TRAFFIC LANE. This term has been replaced by Slow Moving Traffic Lane Signs which see.

Reference: US MUTCD 1961



SLOW MOVING TRAFFIC LANE SIGNS. This category term includes Trucks Use Right Lane Sign, Truck Lane 500 Feet Sign, and Slower Traffic Traffic Keep Right Sign.

Reference: US MUTCD 2000, 2003

SIGNS INDICATING A REGULATION OR DANGER WARNING APPLYING TO ONE OR MORE TRAFFIC LANES. ECE 1995 has created a "Special Regulations" sub-category within the Regulatory category that encompasses various Regulatory and Informative Signs. An attempt has been made in the Database to arrange these Signs according to UN categories. However, these Signs refer to Warning as well as Regulatory Signs. Yet they appear to have a Mandatory character and are placed here. They include three distinct Signs:

COMPULSORY MINIMUM SPEED APPLYING TO DIFFERENT LANES/  
COMPULSORY MINIMUM SPEED APPLYING TO ONE LANE/  
SPEED LIMITS APPLYING TO DIFFERENT LANES. These Signs have a blue ground, white arrows indicating lanes, white circle and white numbers indicating speed. A white disc, black numbers and red disc are present for speed limits.

Reference: ECE 1995

SIGNS INDICATING LANES RESERVED FOR BUSES. These Signs include a panel with white ground, three black arrows (representing lanes), and a blue disc superimposed on one downward pointing lane accompanied by the silhouette of a bus. A second displays three upward pointing arrows topped by a rectangular insert with the silhouette of a bus over one arrow.

Reference: ECE 1995

SLOWER TRAFFIC KEEP RIGHT/TRUCKS USE RIGHT LANE/TRUCK LANE\_\_FEET SIGNS/KEEP RIGHT (LEFT) SIGNS. These US MUTCD 1961 Signs are Mandatory Signs similar to other US Signs of this category. US MUTCD 1971 and newer editions offer graphic forms for Keep Right, Left Signs. However, word forms are retained. Canada has graphic forms for similar signs.

References: US MUTCD 1961, 1971, Canada 1985

**SNOWMOBILE ROUTE SIGN/SNOWMOBILE PROHIBITION SIGN.** Canada 1976 divides Regulatory Signs into categories based on functional needs. This is true of US as well. The European experience, by contrast, has created several sub-categories with precise boundaries. Therefore, such a Sign in UN parlance would be partly in Prohibition category and partly in Mandatory category. However the Signs are kept together in the Mandatory category reflecting Canadian practice. The Snowmobile Route displays a snowmobile within a green annular ring while the prohibition has a red ring and oblique bar. The ground of both Signs is white and the snowmobile symbol is in black.

Reference: Canada 1976, US MUTCD editions, UN 1968

**TRUCK ROUTE SIGN/ALL TRUCKS COMMERCIAL VEHICLES NEXT RIGHT.** These Signs are similar to Signs such as Slower Traffic Keep Right among others.

Reference: US MUTCD 1971

**LANE USE RESTRICTION SIGN.** This Canadian Sign indicates lanes off limit to a class of vehicle. It portrays a silhouette of a truck with red circle and oblique bar. A downward pointing arrow indicates the lane that is off-limits.

Reference: Canada 1985

**YIELD CENTRE LANE TO OPPOSING TRAFFIC SIGN.** This Sign added by Canada 1985 is in a word format.

Reference: Canada 1985

**ONE WAY SIGN/ONE-WAY SIGNS.** These are Signs Giving General Information for UN 1968, but they are Regulatory (with the character of Mandatory Signs) for the US. One version, with an elongated rectangular shape, follows the alternate design for UN Signs. The Sign has a black ground, white rim, white arrow and black lettering. A second form has the standard US rectangular shape and customary color and symbol configurations. US MUTCD 1978 adds additional plates for some of these Signs which include graphic symbols. ECE 1995 has this Sign in the Special Regulation category that encompasses Informative and Regulatory Signs. Noble 1946 opines that France may have first employed this Sign since he observed it in France long before its appearance

elsewhere.

References: UN 1968, US MUTCD 1978, ECE 1995, Noble 1946

TUNNEL SIGN. ECE 1995 includes this in the Special Regulation group. It is possibly a Mandatory Sign. Seemingly no other system has this Sign. The Tunnel Sign has the appearance of a tunnel entrance on white insert within a blue ground. It gives special rules for travelling in the tunnel. Ending of those rules is indicated by the same Sign with a diagonal red bar across the Sign panel.

Reference: ECE 1995

KEEP LEFT (RIGHT) DUAL CARRIAGEWAY SIGN/TURN LEFT (RIGHT) ONE WAY ONLY SIGNS. OBS 1950 includes these Mandatory Signs. Both include the two-sign format. They consist of a disc with white ground and red border accompanied by rectangular Sign plate with white ground, black border and black lettering and -- when required -- black arrows. Noble speaks of Dual Carriageway Sign without reference to Keep Left/Right. The meaning may be the same.

References: OBS 1950, Noble 1946

KEEP LEFT/TURN LEFT/KEEP LEFT OF ISLAND SIGNS. These terms are supplied by Noble 1946. They reflect official UK directives of 1946 though later OBS information is somewhat different.

Reference: Noble 1946

KEEP RIGHT EXCEPT TO PASS SIGN. Canada 1976 includes this Sign which indicates that drivers are to stay in the right lane except when passing.

Reference: Canada 1976

LEFT LANE FOR PASSING ONLY SIGN. This Sign from Mexico appears in IAMM 1981. It is rectangular shaped Sign with emphasis on the horizontal dimension and black letters on white ground.

Reference: IAMM 1981

ONE-WAY SIGN (II). CASATC 1950 includes a Sign very similar to UN Direction To Be Followed Sign. However, the ground color is red and the arrow is

yellow.

Reference: CASATC 1950

OVERHEAD PREFERENTIAL ONLY LANE/PREFERENTIAL ONLY LANE SIGN. Terms for category of Signs for these lanes on expressways and freeways. The first term is the fuller term though second term may have more usage. Older term referred to Signs as simply Preferential Signs.

References: US MUTCD 2000, 2003, 1978

PREFERENTIAL ONLY LANE SIGN FOR HIGH-OCCUPANCY VEHICLES (HOV) SIGN. This form of Sign provides instructions on use of specialized lanes.

Reference: US MUTCD 2003

REVERSIBLE LANE CONTROL SIGN. Sign that indicates lanes that are employed in alternate direction at specified times.

Reference: US MUTCD 2000

ROAD (STREET) CLOSED SIGN/ROAD CLOSED \_MILES AHEAD -- LOCAL TRAFFIC ONLY SIGN/ROAD-CLOSED SIGN/ ROAD CLOSED TO THRU TRAFFIC SIGN. These Signs indicate various types and degrees of closures of streets and roads. They are rectangular in shape with a horizontal axis. The ground color is white and letters and numbers are in black.

References: US MUTCD editions

SLOWER TRAFFIC KEEP RIGHT SIGN/SLOWER TRAFFIC KEEP TO RIGHT. The first Sign -- from US MUTCD 1971 -- has a meaning similar to that of Keep Right Except to Pass. The second Sign, from Canada 1976, indicates an added lane for slower traffic.

Reference: US MUTCD 1971, Canada 1976

SLOWER TRAFFIC USE RIGHT LANE. IAMM 1981 includes this Sign for Mexico. It is a rectangular shaped Sign with horizontal emphasis and black letters on white ground.

Reference: IAMM 1981

ENTRY ONLY-ONE WAY STREET SIGN. Peripatetic Noble found this Sign in London. It displays a red disc but instead of "No Entry" it announces entry to a one-way street.

Reference: Noble 1946

TRAVELPATH RESTRICTION SIGN. This US MUTCD Sign divides a path into pedestrian and bicycles portions. A representation of pedestrian and of bicycle accompany left and right (or right and left) word messages. The Sign is black on white ground.

Reference: US MUTCD 1978

### 3B5 Standing & Parking Signs

STANDING & PARKING SIGNS.

Classification #: 4323

Form of Aid: Unlighted TCD Aid

Operation: Visual messages displayed through vertical Signboards according to recognized practices.

Comments: Parking Signs are an integral part of Regulatory Signs for most systems. For some systems the Parking signs are elements within the spectrum of Regulatory Signs while in other systems they are a separate subdivision. The exception is UN 1968 which separates Standing and Parking Signs from Regulatory and also from Informative Signs since they are partly Informative Signs and Regulatory Signs. In the Database they are kept together in Regulatory except Signs that provide information about parking (e.g., Signs) indicating the location of parking areas.

Reference: UN 1968

EMERGENCY PARKING SIGNS. This term includes Emergency Parking Sign and Emergency Stopping Sign. They are employed on freeways.

Reference: US MUTCD 1988

PARKING PROHIBITED SIGNS/STANDING & PARKING PROHIBITED SIGNS/ALTERNATE PARKING SIGNS/LIMITED DURATION PARKING ZONE SIGNS/PARKING SIGNS. The Parking Prohibited Sign has an alternate

format approved by UN 1968: circular in shape with white or yellow ground, red border and red transverse bar. A symbol denoting Parking is added in black. A supplemental plate can be added with specifics of the prohibition as well as exceptions to the prohibition. ECE 1995 has the Parking Prohibited Sign in the Special Regulation category; the Sign is assigned here for the Database.

Alternate Parking Signs can be employed instead of the Parking Prohibition Sign when parking is approved on opposite sides of the street. Roman numbers or other symbols indicate the days for authorized parking on each side. The Roman numbers are printed on the Signs.

Additional panels of rectangular shape employing the same color format can be added that give information about parking regulations. These panels are termed: :

Model 1 is a supplementary Sign that indicates the meters that the Sign messages encompasses.

Model 2 gives kilometers accompanied by arrows.

Model 3 gives left, right, bidirectional horizontal arrows in meters.

Model 4 displays vertical arrows: up, down, bidirectional

UN 1968 and ECE 1995 include Additional Panels indicating the scope of parking prohibitions, restrictions. They consist of black arrows on white ground and may include distance in meters of the Sign in question.

References: UN 1968, ECE 1995

#### HANDICAPPED PARKING SIGN/DISABLED PERSON PARKING SIGN.

ECE 1995 includes this Sign with the Additional Panels segment. The Sign displays a pictograph of a wheel chair and person in white on blue ground. US MUTCD 1988 has a Reserved Parking Sign with symbol designating handicapped parking though not under that name. Manitoba and Ontario include the second Sign; official name not know but description of Sign indicates the general notion of the Sign.

Reference: ECE 1995, US MUTCD 1988, Manitoba 2007, Ontario 2003

LIMITED DIRECTION PARKING ZONE EXIT SIGN. This Sign from UN 1968 is square in shape with a light colored ground. A disc with the Parking Prohibition

Sign indication is displayed in light gray with a band diagonally over that message. The band is black, dark gray with an alternate of gray/black stripes.  
Reference: UN 1968

RESTRICTED STOPPING OR WAITING SIGN. This Sign from UN 1949 is the equivalent of the UN 1968 Parking Prohibited Sign.  
Reference: UN 1949, 1968

WAITING ON ALTERNATE SIDES SIGN. This Sign from UN 1949 is similar to the 1968 Alternate Parking Sign except that two sets of Roman numerals are present: side I (where waiting is prohibited on odd days) is placed on light ground, while side II (where waiting is prohibited on even days) is on dark ground.  
Reference: UN 1949, UN 1968

PARKING SIGN. This Sign is regarded as an Informative Sign for UN 1949 and LN 1939. This may help to explain why UN 1968 placed all Parking Signs together outside Regulatory and Informative Signs. Formerly, Parking Signs together were within Regulatory whether restrictive or not. However, UN GERSS 1952 and ECAFE 1964 subsumed all parking-related Signs under Regulatory Signs which is the practice of the Database. For UN GERSS 1952 and ECAFE 1964 the standard format for Regulatory Signs is followed.  
Reference: LN 1939, UN 1949, UN GERSS 1952, ECAFE 1964, UN 1968

PARKING PROHIBITED ZONE SIGN/PARKING PROHIBITED AT CERTAIN TIMES ZONE SIGN/PARKING ZONE SIGN/END OF PARKING PROHIBITED ZONE SIGN/END OF PARKING ZONE SIGN. These Signs from ECE 1995 include the standard UN graphic symbols on a rectangular shape with white ground accompanied by the word Zone. The end of restriction Signs displays the symbols in gray with an oblique bar in a band of narrow black stripes. These Signs are part of the Special Regulation category.  
Reference: ECE 1995

NO PARKING SIGN/RESTRICTED PARKING SIGN/NO PARKING & NO STOPPING SIGNS. These Signs are terms from IAMM 1967. They follow the

general lines of Regulatory Signs especially of the UN GERSS 1952 style of Sign configurations. The first letter gives the word for parking in the national language. The placing of an oblique bar imposed on it denotes No Parking. A "X" shaped symbol denotes No Parking and No Stopping. The Parking Sign can be accompanied by a supplemental plate adding additional information.

Reference: IAMM 1967, UN GERSS 1952

NO PARKING SIGN/NO WAITING SIGN/PARKING SIGNS/PROHIBITION OF PARKING SIGN. LN 1931 includes a square Sign with blue ground and white "P" for parking permitted areas. The traditional disc with blue ground, red border and oblique bar denotes No Waiting. The addition of "P" indicates No Parking. The older LN 1928 Parking Sign was circular in shape; the LN 1931 Sign is the same except for shape. The 1931 No Waiting Sign displayed a blue ground, red border accompanied by a supplemental plate with the word inscription "No Waiting." Noble 1946 refers to a Prohibition of Parking Sign in UK which follows the European practice. The variant name has the appearance of the No Parking Sign of LN 1931.

Reference: LN 1931, LN 1928, Noble 1946

WAITING PROHIBITED SIGN/STOPPING PROHIBITED SIGNS. The Parking Sign symbols of LN 1939 are followed in newer systems though the names of the Signs are different. A second form of Waiting Prohibited Sign included the word inscription, "No Waiting This Side on Even Dates" but the name of the Sign was unchanged.

Reference: LN 1939

NO PARKING SIGN/NO PARKING \_\_TO\_\_ SIGN/NO PARKING EXCEPT SUNDAYS & HOLIDAYS SIGN/NO STOPPING OR STANDING SIGN/ONE HOUR PARKING SIGN/NO PARKING LOADING ZONE SIGN/NO PARKING BUS STOP SIGNS/NO STANDING ANYTIME SIGN. Parking regulation Signs in US MUTCD 1961 and newer editions lack an overarching parking prohibition and restriction format that can be employed and refined through Supplemental Plates. Instead a series of Signs are needed to convey the intended messages. Prohibitive messages are in red while those permitting parking are in green. The Sign plates are rectangular with white ground, red or green rims and



red or green letters and numbers. A Guide Sign giving directions to parking areas has a white ground, is of larger size with green letters and appropriate areas. That Sign is outside of the Regulatory category. These Signs are for urban use. Rural Signs are larger in size than urban forms though they display the same format of white ground, red rims and red word and number messages.

Reference: US MUTCD 1961

NO PARKING ON PAVEMENT SIGN/NO STOPPING ON PAVEMENT SIGN/NO PARKING EXCEPT ON SHOULDER SIGN/NO PARKING SIGN/EMERGENCY STOPPING SIGN/EMERGENCY PARKING ONLY SIGNS. These rural Signs in US MUTCD 1961 were referred to in the previous paragraph. They are found on expressways and have a white ground, black rim and black words. In US MUTCD 1971 symbols are red on white ground except Emergency Signs which remain black on white. US MUTCD 1978 adds graphic forms for no parking in bus zones and in tow-away zones.

References: US MUTCD 1961, 1971, 1978

NO WAITING THIS SIDE TODAY/WAITING TO LIMITED TO\_\_IN ANY HOUR SIGNS. These Signs are from OBS 1950. The first has a red border, yellow grounds and white or black inscriptions. The second has a blue ground, red border and white inscriptions. They continue the double-sign tradition previously described.

Reference: OBS 1950

NO PARKING SIGN/PARKING SIGNS. CASATC 1950 also divides these Signs between Regulatory and Informative Signs. Parking restrictions display discs with yellow ground, black inscriptions and red borders. Parking Signs are rectangular with blue or yellow grounds and white or black inscriptions. They continue the double-sign tradition previously described.

Reference: CASATC 1950

NO PARKING SIGN/BIKE LANE SIGN. This US MUTCD 1978 Sign has two forms: word form and a graphic form. The word form has red letters on white ground with red rim and the word No in white on red inset. The second form has the traditional red circle and oblique bar on black P accompanied by the words

Bike Lane in red on white ground with red rim.

Reference: US MUTCD 1978

MULTIPLE PARKING CONTROL SIGN. These Canadian Signs have a dual module and triple module forms. The dual form has stopping and parking restrictions; the triple form has stopping, parking restrictions and limited duration information.

Reference: Canada 1976

NO PARKING/BICYCLE LANE SIGN. Sign indicates that no parking, stopping or standing is allowed in bicycle lane.

Reference: US MUTCD 2000

PARKING PROHIBITION SIGNS IN RURAL DISTRICTS. This US MUTCD 1988 Sign was replaced by a more encompassing term in new editions: Parking, Standing and Stopping Signs.

References: US MUTCD 1988, 2000, 2003

PARKING SIGNS IN RURAL DISTRICTS. A US MUTCD 1971 Sign replaced by an altered version in 1988 described in previous entry.

PARKING, STANDING, & STOPPING SIGN. A category Sign encompassing parking and related Signs.

References: US MUTCD 2000, 2003

RURAL PARKING CONTROL SIGNS. Canada 1976 includes a series of Signs under this heading:

RURAL PARKING CONTROL SIGN

RURAL STOPPING CONTROL SIGN

The first Sign has a letter "P" with red circle and oblique bar superimposed on it. The second Sign replaces the "P" with an octagon.

Reference: Canada 1976

SNOW ROUTE SIGN. This Sign indicates that stopping is prohibited during severe snow conditions.

Reference: Manitoba 2007

**STOPPING IS PROHIBITED SIGN.** This is a Mexican Sign in IAMM 1981. It denotes places where it is forbidden to board or let off passengers.

Reference: IAMM 1981

**URBAN NO STOPPING SIGNS.** Canada 1976 includes a series of Signs under this heading:

STOPPING CONTROL SIGN

RUSH PERIOD STOPPING CONTROL SIGN

PART TIME STOPPING CONTROL SIGN

The basic Sign displays a black octagon with red circle and oblique bar on white ground with black rim. The second Sign includes hours and days when the basic message is operative. The final Sign has longer periods of operation though less than full time.

Reference: Canada 1976

**URBAN PARKING & STOPPING SIGNS.** A category in US MUTCD 1988 that was replaced by Parking, Standing and Stopping Signs in newer editions.

Reference: US MUTCD 1988

**URBAN PARKING CONTROL SIGN.** Canada 1976 has several Signs within this group:

PARKING CONTROL SIGN

PART-TIME SIGN

PARKING LIMIT

The basic Sign displays a black "P" with oblique bar and circle in red on white ground with black rim. The second Sign gives hours and days for part-time prohibition. The Parking Limit Sign has two versions: 30 minute limit on certain days, hours and a 60 minute version

Reference: Canada 1976

3B6 Pedestrian Crossings Signs

**CROSS ONLY AT CROSS WALKS SIGN.** This Sign from Canada 1976 and US

MUTCD 1971 is in word form. It indicates passage permitted only within specified limits.

Reference: Canada 1976, US MUTCD 1971

EMERGENCY RESTRICTION SIGN. A category that includes Emergency Parking Only, Emergency Stopping Only, and Do Not Stop on Tracks Signs.

References: US MUTCD 2000, 2003

IN STREET PEDESTRIAN CROSSING SIGN. Sign gives reminders of laws for right of way at non-signalized crossings which may include adding the words "State law" to Sign.

Reference: US MUTCD 2000

NO PEDESTRIAN CROSSING SIGN. This Sign from Canada 1976 and US MUTCD editions indicates area closed to movement of pedestrians.

Reference: Canada 1976, US MUTCD editions

PEDESTRIAN CORRIDOR SIGN. A Sign in Manitoba display white graphic on black ground (which is the reverse of crosswalk) and supplemented by flashing lights.

Reference: Manitoba 2007

PEDESTRIAN CROSSING SIGN. ECE 1995 offers a new form of Pedestrian Crossing Sign consisting of a pictograph of a pedestrian crossing zebra stripes that represents a crossing. It has white graphics on a blue ground. ECE also has human representation in black between dashed lines within one triangular inset on blue ground in a square shaped Sign. A white figure on dashed lines on blue ground with white border and a shape suggests a triangle on rectangular base (or pentagram that is nearly triangular). These Signs are in the ECE Special Regulation category.

Reference: ECE 1995

PEDESTRIAN CROSSWALK SIGN/PLAYGROUND CROSSING SIGN/  
SCHOOL CROSSING SIGN. Canada 1976 has a distinctive Sign shape and configuration for these Signs: the key word is accompanied by a large bold "X"

signifying crosswalk.  
Reference: Canada 1976

**RESERVED PARKING FOR PERSONS WITH DISABILITIES.** Sign indicates that parking permitted only by those with valid disability permits.  
References: US MUTCD 2000, 2003

**USE PED SIGNALS SIGN.** This is a US Sign for bicycles. It displays those words in black on a white ground with rim and representation of a bicycle in black. Ped is an abbreviation for Pedestrian.  
Reference: US MUTCD 1988

**YIELD TO PEDS SIGN.** This Sign from US MUTCD 1988 is similar to the above Sign except for the word message.  
Reference: US MUTCD 1988

**USE CROSS WALK SIGN.** This Sign from US MUTCD 1978 includes the phrase Use Cross Walk accompanied by an arrow.  
Reference: US MUTCD 1978

**UNSIGNALIZED PEDESTRIAN CROSSWALK SIGN.** Overarching term for several forms of this category of Sign including Stop Sign forms.  
Reference: US MUTCD 2003

The following Signs refer to movements of pedestrians controlled by Traffic Signals:

CROSS ON GREEN LIGHT ONLY  
CROSS ON WALK SIGNAL ONLY  
PUSH BUTTON FOR GREEN LIGHT  
PUSH BUTTON FOR WALK LIGHT  
Reference: US MUTCD 2003

**YIELD HERE TO PEDESTRIAN SIGN.** Denotes midblock crosswalk without Signals.  
Reference: US MUTCD 2003

### 3B7 Miscellaneous Regulatory Signs

**SIGNING FOR CIVIL DEFENSE/EMERGENCY MANAGEMENT SIGNING.**  
Signs for Civil Defense emergencies have been renamed Emergency Management Signs. The Signs and descriptions are similar under both names. However, some Devices have been renamed. Signs on left (when present) are from US MUTCD 1988 and earlier editions. Signs on right (when present) are from US MUTCD 2000, 2003.

EVACUATION ROUTE MARKER/EVACUATION ROUTE SIGN.  
AREA CLOSED SIGN  
TRAFFIC REGULATION POST SIGN/TRAFFIC CONTROL POINT SIGN.  
EMERGENCY SPEED SIGNS/MAINTAIN TOP SPEED SIGNS  
ROAD USE [1961 has Priority instead of Road Use] PERMIT SIGN/ROAD (AREA) USE PERMIT REQUIRED FOR THRU TRAFFIC SIGNS  
EMERGENCY AID CENTERS SIGNS  
FALLOUT SHELTER DIRECTIONAL SIGNS/SHELTER DIRECTIONAL SIGNS/EMERGENCY SHELTER SIGNS/CHEMICAL SHELTER SIGN/FALLOUT SHELTER SIGN/HURRICANE SHELTER SIGN

These Signs almost always display black symbols on white ground with black rim. The Evacuation Sign, however, is white on blue ground with white rim. The Fallout Shelter Sign includes the radiation symbol in yellow and black.  
Reference: US MUTCD editions

**BICYCLE LANE SIGNS.** This term encompasses several related Signs. They are employed with Bicycle Lane Symbol Pavement Marking.

BICYCLE LANE AHEAD, an Advance Sign.

RIGHT LANE BICYCLES ONLY SIGN, employed periodically along lane.

BICYCLE LANE ENDS SIGN indicates end of lane.

References: US MUTCD 2000, 2003

**DO NOT STOP ON TRACKS SIGN.** Sign call for motorists not to stop on tracks; employed when it appears likely that motorists will be inclined to do so.

Reference: US MUTCD 2000

**HAZARDOUS CARGO SIGN/HAZARDOUS MATERIALS SIGN.** Sign indicates routes over which hazardous materials are permitted. The Cargo Sign is from US MUTCD 1988 and 2000; the 2003 edition changed it to Materials.  
Reference: US MUTCD 1988, 2000, 2003

**NO HITCHIKING.** This US Sign followed the word form format in the 1971 edition. US 1978 and newer editions have a graphic symbol displaying hand, thumb, and red circle with oblique bar.  
Reference: US MUTCD 1971, 1978

**PHOTO ENHANCED SIGN.** Sign attached to Regulatory Sign to indicate that the regulation denoted by Sign is under photo surveillance.  
Reference: US MUTCD 2003

**SHARED-USE PATH RESTRICTION SIGN.** Denotes paths shared by pedestrians and cyclists.  
Reference: US MUTCD 2003

**STAY IN LANE SIGN.** Sign employed in Construction and Maintenance zones where lane shifts prohibit changing of lanes by motorists.  
Reference: US MUTCD 2003

**STOP HERE ON RED SIGN.** Indicates stop line before Signal. One of several types of Traffic Signal Signs.  
Reference: US MUTCD 2003

**TRACK OUT OF SERVICE SIGN.** Sign indicates that railroad tracks are in place but out of service.  
Reference: US MUTCD 2003

**TRAFFIC LAWS PHOTO ENHANCED SIGN.** A Sign set up at political boundaries to indicate that some traffic laws under surveillance.  
Reference: US MUTCD 2003

CHAPTER FOUR  
TRAFFIC SIGNALS  
Chapter 4A Index

4A1 Category Index

Traffic Signals (4B1)

a) Overarching Terms & General Note for Traffic Signals

- General Notes I, II
- Electric Traffic Lights
- Highway Traffic Signals
- Light Signals
- Lighted Traffic Signals
- Road Signalling
- Road Signals
- Signals
- Signal Lights
- Signals for Vehicular Traffic
- Street Traffic Signals
- Traffic Lights/Traffic-Lights
- Traffic Light Signals
- Traffic Signals

b) Specific Entries

- General Note
- Traffic Control Signals
- Signals for Vehicular Traffic
- Street Traffic Signals

c) Messages

- US MUTCD
- Canada 1976
- UN GERSS 1952 & UN ECAFE 1964
- LN 1928/1931-33/1939



UK 1950

UN 1968

d) Traffic Signal Operations

General Note

Automatic Signals

Fixed-Time Signals/Fixed Time Signals

Manual Signals

Pretimed Signals

Traffic-Actuated Signals

Traffic-Adjusted Signals

Vehicle-Actuated Signals

4B2 Pedestrian Signals

Accessible Pedestrian Signals

Audible Pedestrian Signals

Pedestrian Crossing Signals

Pedestrian Signals/Signals for Pedestrians Only/Pedestrian-  
Operated Signals

Pedestrian Traffic Lights

Vibrotactile Pedestrian Devices

4B3 Traffic Signals-Other Forms

Cyclist Signals

Emergency-Traffic Signals/Traffic Control Signals for Emergency  
Vehicles/Emergency-Vehicle Traffic Control Signals/  
Emergency Signals

Ferry-Boat Landing Signals

In-Roadway Lights

Low-Flying Aircraft Signals

Miscellaneous Signals

Road Sound Signals

School Crossing Signals/School Area Traffic Signals/School Signals

Temporary Traffic Control Signals

Traffic Signals for One-Lane, Two-Way Facilities

Traffic Signals at Freeway Entrance Ramps/Traffic [Control] Signals  
for Freeway Entrance Ramps/Freeway Entrance Ramp Control  
Signals/Ramp Control Signals

Movable Bridge Signals/Drawbridge Signals/Swing Bridges/Traffic  
Signals at Drawbridges/Traffic Control Signals for Movable Bridges  
Lane Control Signals/Lane-Use Control Signals/Lane Direction Signals/  
Lane Direction Control Signals/Lane-Direction Control Signals  
Portable Traffic Control Signals  
Robots  
Traffic Lights for Special Vehicles  
Traffic Light Signs  
Transit Priority Signals

4B4 Flashing Beacons

a) Overarching Terms

Traffic Beacons  
Flashing Beacons  
Beacons

b) Specific Terms

Flash Lights  
Flashing Yellow Beacons/Flashing Red & Yellow Beacons  
Hazard Identification Beacons  
Intersection Control Beacons  
Speed Limit Sign Beacons  
Stop Beacons  
Stop Sign Beacons  
Warning Beacons

4B5 Lighting Devices

General Note  
Lighting Devices  
Flashing Warning Beacons  
Floodlights  
Hazard Identification Beacons (Flashing Electric Lights)  
Steady-Burning Electric Lamps/Steady-Burn Electric Lamps  
Warning Lamps  
Type A, Low-Intensity Flashing Warning Lights  
Type B, High-Intensity Flashing Warning Lights  
Type C, Steady-Burn Warning Lights  
Type D, 360-Degree Steady Burn Warning Lights

Special Lighting Units  
Advance Warning Arrow Panels/Arrow Panels  
Types A, B, C  
4B6 Grade/Level Crossing Signals  
Active Traffic Control Systems/Active Grade Crossing Warning  
Systems/Active Traffic Control Devices for Highway-Railroad  
Grade Crossing  
Autoflag  
Automatic Flagman  
Flashing-Light Signal/Flashing Light Signals  
Highway Grade Crossing Warning Devices  
Magnetic Flagman  
No Right (Left) Turn Signal  
Passive Traffic Control Systems  
Railroad Grade Crossing Signals  
Train Approach Signal/Train-Approach Signal  
Traffic Control Signals at or near Highway-Rail Grade Crossing  
Traffic Lights at Level Railroad Crossings  
Wavelight  
Wig Wag Signal/Wigwag Crossing Signal

Note: Part IV, *Composite Categories Classification and Index*, includes a Sound Traffic Signal segment. The entries are drawn from Bridge, Pedestrian and Grade/Level Crossing Signals. That group is not included here but the Signals in question are listed here. Most or all of them are closely linked to visual TCDs. They include: Movable Bridge Signals (which include Drawbridge and Swing Bridge), Audible Pedestrian Signals, Grade/Level Crossing Signals, and Road Sound Signals. See Signals in several sections of this chapter.

## 4A2 Alphabetical Index

Accessible Pedestrian Signals	200
Active Grade Crossing Warning System/Active Traffic Control Devices for Highway-Railroad Grade Crossing/ Active Traffic Control System	
Advance Warning Arrow Panel/Arrow Panels, Type A, Type B, Type C	211 210-211
Audible Pedestrian Signals	200
Autoflag	211
Automatic Flagman	211
Automatic Signals	199
Beacon	207
Cyclist Signal	202-203
Drawbridge Signal: Movable	204-205
Electric Traffic Lights	192
Emergency-Vehicle Traffic Control Signal: Emergency	203 203
Emergency Signals	203
Emergency-Traffic Signals	203
Ferry-Boat Landing Signals	203
Fixed-Time Signals/Fixed Time Signals	199
Flash Light	208
Flashing Beacons	206-207
Flashing-Light Signals/Flashing Light Signal	211-212
Flashing Yellow Beacons/Flashing Red & Yellow Beacon	208 208
Flashing Warning Beacon	209

Floodlights	209
Freeway Entrance Ramp Control Signals: Traffic	204
Grade/Level Crossing Signals	211
Hazard Identification Beacon	208
Hazard Identification Beacon (Flashing Electric Light)	209-210
Highway Grade Crossing Warning Devices	212
Highway Traffic Signals	192
In-Roadway Lights	203
Intersection Control Beacon	208
Lane Control Signals/Lane-Use Control Signals/ Lane Direction Signals/Lane Direction Control/ Lane-Direction Control Signals	205
Light Signal	192-193
Lighted Traffic Signals	193
Lighting Devices	209
Low-Flying Aircraft Signals	203
Magnetic Flagman	212
Manual Signals	199
Messages	195-199
Miscellaneous Signals	203
Movable Bridge Signals	204-205
No Right (Left) Turn Signals	212
Passive Traffic Control Signals	212
Pedestrian Crossing Signals	200
Pedestrian Signals	200
Pedestrian Signals/Pedestrian-Operated Signals	200-202
Pedestrian Traffic Lights	202

Portable Traffic Control Signals	205
Pretimed Signals	199
Railroad Grade Crossing Signals	212-213
Ramp Control Signals: Traffic Signals	204
Road Signals	193
Road Signalling	193
Road Sound Signals	203
Robots	205
School Crossing Signals/School Area Traffic Signals/School Signal	203-204
Signals	193
Signal Lights	193
Signals for Pedestrian Only: Pedestrian Signals	200-202
Signals for Vehicular Traffic	194, 195
Special Lighting Units	210
Speed Limit Sign Beacon	208
Steady-Burn Electric Lamp/Steady-Burning Electric Lamps	210
Stop Beacon	209
Stop Sign Beacon	209
Street Traffic Signals	194, 195
Swing Bridges: Movable	204-205
Temporary Traffic Control Signal	204
Traffic-Actuated Signal	200
Traffic-Adjusted Signal	200
Traffic Beacons	206
Traffic Control Signals	195, 199
Traffic Control Signals at or near Highway- Rail Grade Crossing	213
Traffic Control Signals for Emergency Vehicles: Emergency	203
Traffic Control Signals for Movable Bridges:	

Movable	204-205
Traffic Lights/Traffic-Lights	194-195
Traffic Lights at Level Railroad Crossing	213
Traffic Lights for Special Vehicles	205
Traffic Light Signs	206
Traffic Light Signals	194
Traffic Signal-Other Forms	202
Traffic Signals at Drawbridge: Movable	204-205
Traffic [Control] Signals at Freeway Entrance	
Ramps: Traffic Signal	204
Traffic Signals at Freeway Entrance Ramps	204
Traffic Signals for One-Lane, Two-Way Facilities	204
Traffic Lights/Traffic-Lights	193-194
Traffic Light Signals	194
Traffic Signals	191, 194-5, 199, 202
Traffic Signals-Operations	199
Train Approach Signal/Train-Approach Signal	213
Transit Priority Signals	206
Vehicle-Actuated Signals	200
Vibrotactile Pedestrian Device	202
Warning Beacon	209
Warning Lights, Type A, High Intensity Flashing	
Warning Lights/Type B, High Intensity Flashing	
Warning Lights/Type C, Steady-Burning Unit/ Type 360-Degree Steady-Burn Warning Lights	210
Wave Light	213
Wig Wag Signal/Wigwag Crossing Signals	213

## Chapter 4B Traffic Signal Entries

### 4B1 Traffic Signals

#### a) Overarching Terms & General Note for Traffic Signals

General Note I. Systems of Traffic Control Devices have long given detailed attention to Traffic Signs. Details on shapes, colors, graphic and other symbols and function are found even in early systems of a simple nature. Traffic Signals, by contrast, have received substantially less attention even in some relatively recent systems. This situation in part has been caused by a limited range of messages for Traffic Signals. Traffic Signals do not require the extensive coverage that Signs require. Nonetheless, the attention given to that form of TCD still seems limited. This is especially the case in European systems (which often extend beyond Europe) that give less coverage, include fewer forms, and often lump diverse forms under a few headings or even a single heading.

UN 1949 does not include Pedestrian Signals, and subsumes Level Crossing Signals under a broader heading ("Supplementary Provisions Concerning Level-Crossings that encompasses Signs, Signals, Sound Signals). UN GERSS 1952 omits Pedestrian Signals, refers somewhat indirectly to Level Crossing Signals and includes the single term of Traffic Signal for lighted TCDs. UN 1968 has more coverage than the previous two systems but, nonetheless, considers Signals under just two headings: Signals for Vehicular Traffic and Signals for Pedestrians.

In other nations, including Japan and many Western Hemisphere nations, the coverage is more substantial. Various Signals are given names in their own right, and more types of Signals are included. Traffic Signals have a larger place in TCD coverage and usage. Even an older document such as US MUTCD 1948 includes a broad range of specific Signal forms.

This situation creates a problem for the Database: UN 1968 provides an overall direction and structure for the coverage yet various Signals are missing in UN documents or at least have a diminished role. To address this problem the



Database has set up an organizational structure that -- though influenced by UN 1968 -- includes Signal forms more familiar outside of UN 1968 and outside Europe. The result may not represent a full correlation of the organization and Signals yet it may prove workable. Notes on differences in approaches to Traffic Signals are included in the coverage of this category.

General Note II. Traffic Signal definitions usually do not include lighted aids that do not have a signal function. Signals call for an action by the motorist that encompasses a choice of options. Other devices have a fixed meaning. These include Lighted Devices in construction or other temporary situation as well as Arrow Panels and Lighted Signs. They have a fixed meaning or -- in the case of Signs -- have a meaning attached to the Sign itself. However, in this Study the entries are based on the nature of the Aid not by the function. So that anything displaying a lighted dimension (save Signs where the Sign role is primary) is placed in this chapter. Therefore Traffic Signal has a more elastic meaning and includes Lighted Aids without an actual signal function.

**ELECTRIC TRAFFIC LIGHT.** A Wikipedia term for an early Signal and possibly differentiated from coverage of an older UK gas-powered unit.  
Reference: Wikipedia

**HIGHWAY TRAFFIC SIGNALS.** This term may appear to be a specialized form of Traffic Signal and even an archaic form. Yet it is a current and primary term for all forms of Traffic Signals in the US. In fact, most lighted TCD forms but not lighted Signs, Barricade Lights, Warning Lights) are included. Since the term is repeated in successive MUTCD editions the term may be a historic one. It retains pride of place even if not extensively employed elsewhere. Perhaps confusingly, the MUTCD subdivision for this topic is entitled Signals not Highway Traffic Signals. It is obvious that many Traffic Signals are not found on highways at all. A 1996 Proposed documents for a new edition of MUTCD indicated that the bare term of Signal was to be replaced by Highway Traffic Signals.  
Reference: MUTCD editions, Notice of Proposed Amendment (NOPA)

**LIGHT SIGNAL.** A plausible term for Traffic Signals though it fails to appear in any system; one printed source includes it. It is frequently found on Internet

search engines; admittedly the term can encompass diverse forms of Signals.  
Reference: Noble 1946

LIGHTED TRAFFIC SIGNAL. A term that appears in Part J. The all-lighted Signal adjoined a partially lighted older UK Semaphore Signal.  
Reference: Part J

ROAD SIGNALLING. This is a term in League of Nations publications that refers mostly to Road Signs. Signals had a restricted role in LN and Markings were entirely absent. Signs not Traffic Signals were the focus of the term.  
References: League of Nations 1928

ROAD SIGNALS. Zuniga includes this term in a 1969 essay. It may be of informal coinage since it is apparently not otherwise employed. *Protocol on Road Signs & Signals* (UN 1949) does not include Road Signals.  
References: Zuniga 1969, UN 1949, LN 1931

SIGNALS. A plausible title yet apparently not often found in the literature. It is a very general term lacking a mode-specific character. International Municipal Signal Association (IMSA) 1981 includes the term and it is a general heading in MUTCD documents (though not employed otherwise). Signals may be acceptable in a framework of Traffic Control Devices. This is analogous to the use of the bare term Markings when placed in a context of Traffic Control Devices.  
Reference: IMSA 1981

SIGNAL LIGHTS. Wikipedia at times speaks of Signals and Signal Lights. Are these synonyms for Traffic Lights? Is Signal Light at variance with Signal? The use of multiple authors and editors may explain the use of multiple terms.  
Reference: Wikipedia

SIGNALS FOR VEHICULAR TRAFFIC. This somewhat convoluted term is the primary term for UN 1968. It includes various forms and functions of various signals (Save pedestrian and level-crossing Signals). However, specific terms for Signal within that category are lacking. UN 1949 and UN GERSS 1952 use the more conventional term of Traffic Light Signals.

Reference: UN 1968

**STREET TRAFFIC SIGNALS.** Webster 1960/1966 is the only source in these studies employing this term. It is comparable to other terms of this category and has little to recommend it over more commonly employed Signal terms.

Reference: Webster 1960/1966

**TRAFFIC LIGHT/TRAFFIC-LIGHT.** Wikipedia shows a preference for this non-professional term(s) which may reflect an Internet practice. The term is described as “a finite state machine positioned at road intersections ... to indicate when it is safe to drive, ride or walk, using a universal color code.” Does the hyphenated form denote specific usages? Among older sources it apparently appears only in Noble 1946 which is largely a historical source.

Reference: Wikipedia

**TRAFFIC LIGHT SIGNALS.** This is the primary overarching term for UN GERSS 1952, UN 1949, and ECAFE 1964. It has more of an international cast than Traffic Control Signals though there is no specific usage in the Western Hemisphere. UN GERSS and ECAFE coverage of this form of TCD is exclusively under this term. UN 1949 considers Level Crossing Signals separately. It also appears in Noble 1946.

References: UN GERSS 1952, UN 1949, UN ECAFE 1964

**TRAFFIC SIGNALS.** General Comment. This may appear to be the primary term for Signals in TCD. Yet it is somewhat restricted in usage. Canada 1976, IMSA 1981 and several individual authors employ the term but seemingly there is little use beyond that. US MUTCD editions places the term within () after Traffic Control Signals. It is the general overarching term for the Database since it includes the key words of Traffic and Signal and can encompass many other related terms. Highway Traffic Signals continues to be essential in US practice.

Classification #: 4111

Form of Aid: TCD Lighted Aid

Operation: An all-lighted Device displaying alternating messages according to a pattern which frequently serves multiple-directions.

Comments: Traffic Signal serves as an overarching term for all regular and special forms in this study. It represents regular and special signals even those with separate classification numbers unless otherwise noted.

References: Canada 1976, IMSA 1981, US MUTCD editions

#### b) Specific Entries

General Note. It is perhaps curious that there are seemingly more overarching terms for Traffic Signals than terms for specific forms of such Signals. Several factors appear to be at work: overarching terms have a dual-purpose: they are overarching and specific at the same time. A second factor suggests that some systems have few Signals and what appears to be overarching may be little more than a reference to Signals with a stop-and-go function. Finally, Signals for some systems have a variety of functions within the overall term but lack names for those specific functions. This segment includes few additional terms though it does include references to previous terms.

**TRAFFIC CONTROL SIGNALS.** This term -- which is employed in various Western Hemisphere nations -- is quite possibly the most specific term for Signals controlling stop-and-go functions at intersections. It distinguishes between this function and more specialized functions; it also differentiates between terms encompassing many TCD Signal functions, and the specific intersection control function.

References: US MUTCD editions

**SIGNALS FOR VEHICULAR TRAFFIC.** This term from UN 1968 is an overarching term yet much of its content has reference to stop-and-go operations.  
Reference: UN 1968

**STREET TRAFFIC SIGNAL.** This term from Webster though somewhat vague suggests intersection usage as a primary function.

Reference: Webster 1960, 1966

#### c) Messages

US MUTCD:

1948:

Three or more lenses: Red, Yellow, Green (in that order)

Yellow means:

Indicates change in message (Y follows G)

Allows Vehicles in/near intersection to clear intersection

Flashing yellow: when stop and go character not required

Arrows: straight through/Left-turn/Right Turn/Wait (Don't Walk)/Walk

Color and Position of Lenses: (Top to Bottom/Left to Right): R/Y/G/

Straight Through/Left-turn/Right-turn/Wait (Don't Walk/Walk).

1961:

Circular Green: Proceed Straight Through, Right, Left

Steady Yellow: Red to follow soon/Green ending

Steady Red: Stop Before Crosswalk/or short of intersection

Green Straight-Through Arrow: Straight Through, no turns

Green Turn Arrow: 1971 simpler, clearer explanation

1971:

Circular Green: Proceed

Green Arrow: Proceed according to indication of arrow

Yellow Arrow: Green ending; red is about to activate

Circular Arrow: as above

Circular Red: Stop at stop line

Red Arrow: Arrow's direction not to be acted upon

Flashing Red: Stop before proceeding; rules for Flashing Red similar to those for the Stop Sign

Flashing Yellow: A caution Signal

1978:

This is similar to MUTCD 1971 except that 1971 required Sign for Right Turn on red while MUTC 1978, by contrast, required a Sign to prohibit that turn.

1988:

This is similar to MUTCD 1978 except that 1988 Flashing Red Arrow and Flashing Yellow Arrow is added. Meaning is that of Circular Red and Circular Yellow except that the Flashing Arrows directed only to drivers affected by arrows. Proposed amendments for a new edition of MUTCD appear similar to that of 1988 though the format of the material is markedly different. This applies to

the 2000 and 2003 editions as well.

#### CANADA 1976

Green: Vehicles can proceed straight through, turn left or right (unless turns prohibited)

Amber: Red signal to follow soon

Red: Stop vehicle before cross walk (or edge of intersection if none)

Green Arrows: Proceed following movements

Flashing Green Left Turn Arrow: Motorists can proceed left, right, or straight (unless another TCD prohibits straight or right turn movements)

#### UN GERSS 1952 & UN ECAFE 1964:

##### Three-color Signals:

Red: Vehicles are not to go beyond specified point (seemingly national agencies determine that point since it is not given in the document)

Green: The term proceed is not used; instead the message is: "traffic may pass the signal"

Amber: It follows green indication; vehicles not to pass unless too close for a safe stop

##### Two-color Signals:

Red plus Green: Meaning conforms to that of amber

Single Flashing (Intermittent) Amber: Message is "Proceed with caution"

Single Flashing (Intermittent) Red: Message is "Stop, then proceed with caution"

Vertical arrangement of lenses: Red, Amber, Green

Flashing Red at Intersections: Approved for intersections in these systems in contrast to UN 1968

Level Crossings: Two Red Lens. This parallels Western Hemisphere practice which requires two lens for this role

These systems refers to the needs of the color-blind by remarks about using shape and color to address that problem.

Portugese communication to that Committee provides more specific coverage of

Traffic Signals messages:

Red denotes Danger of Prohibition

Green denotes Road Clear

Amber denotes Attention

The order of lenses: red, amber, green

League of Nations:

LN 1928: There are some references to Red Lights but the coverage does not give a solid sense that these constitute Traffic Signals

LN 1931 (Revised 1933):

Red: Stop

Amber: Stop if not already in intersection; proceed through intersection if already in intersection

Green: All Clear

LN 1939: Committee adopted “the principle of the meaning attached to red, amber, and green lights” which may suggest that a full coverage of Traffic Signal communications had not been implemented. But the work of 1939 was not completed.

UK (Tripp) 1950:

Red: Stop, stay behind Stop Line

Red & Amber: This combination indicates Stop “but be prepared to go when the Green shows”

Green: Proceed

Amber: Stop unless in or very near to intersection

Green Arrow with Red Indication: Proceed according to meaning of arrow

UN 1968:

Non-Flashing:

Green: Proceed

Red: Do Not Proceed (Beyond Stop Line, equivalent)

Amber: Do Not Proceed unless vehicles proximity to stop line would make stopping unsafe

Flashing:

None in two-color or three-color system  
Green Arrow: Movement according to arrow  
Red, Amber Arrows: None in UN 1968

ECE 1995: Messages are similar in meaning to UN 1968 though with some changes:

Arrows can replace the solid colors of Red, Amber, Green (This has reference to situations other than lane directions).

Arrows have one of two forms: Colored arrows on black background, or black arrows on colored background.

#### d) Traffic Signal Operations

General Note. The terms of this segment are not directly Traffic Signal terms. Yet the terms of operations are often attached to the term Signal and thereby become a Signal term even if not in a physical or functional sense. Some systems do not refer to the operational dimension though other systems make that reference. Such terms are included for that reason.

**AUTOMATIC SIGNALS.** This term is found in some UK sources. It refers to a mechanical Signal in contrast to traffic control by police officers.

References: Trip 1950

**FIXED-TIME SIGNALS/FIXED TIME SIGNALS.** Some UK sources and MUTCD 1948 use this term. It is the equivalent of a Pretimed Signal.

References: US MUTCD 1948, Trip 1950

**MANUAL SIGNALS.** In some UK literature this term refers to police traffic regulation. Compare to Automatic Signals.

References: Trip 1950

**PRETIMED SIGNALS:** These Signals follow a predetermined pattern generated by electromechanical or electronic means. A series of Signals can be coordinated according to a schedule.

References: US MUTCD 1961, 1988



**TRAFFIC-ACTUATED SIGNAL.** These Signals operate according to traffic flow demands. A version known as Full Traffic Actuated refers to a Signal at an intersection where all approaches are actuated by traffic. Semi-Traffic Actuated Signals indicates Signal operation where only secondary approaches are actuated by traffic demand.

Reference: US MUTCD 1948

**TRAFFIC-ADJUSTED SIGNAL.** This term appears in MUTCD 1961. It is a form of Traffic-Actuated Signal in which adjustments in operations are made after monitoring traffic patterns over a broad area. The resulting pattern affects a series of installations.

Reference: MUTCD 1961

**VEHICLE-ACTUATED SIGNALS.** This UK term has the meaning of a Traffic-Actuated Signal.

References: Webster 1960, Trip 1950

#### 4B2 Pedestrian Signals

**ACCESSIBLE PEDESTRIAN SIGNALS.** Term for Signal with non-visual messages including audible, verbal, vibrating Signals.

Reference: US MUTCD 2003

**AUDIBLE PEDESTRIAN SIGNAL.** Term for a Signal that includes a sound dimension for the visually impaired. Sounds can include chimes and bird-calls.

Reference: Kuemmel 2000

**PEDESTRIAN CROSSING SIGNAL.** Lay 1990 refers to Signals for pedestrian crossings. Possibly pedestrian crossing and Signal were conflated in T-M studies and resulted in this term.

Reference: Lay 1990

**PEDESTRIAN SIGNALS/SIGNALS FOR PEDESTRIANS ONLY/**

**PEDESTRIAN-OPERATED SIGNALS.** General Comments. These Signals are for pedestrians rather than vehicles though they are tied to motor vehicular

movements and interact with Traffic Signal actions. Pedestrian Signals may be pre-timed or pedestrian-actuated. Only newer systems include these Signals. UN 1949 and UN GERSS 1952 both omit the Signal. Canada 1976 includes a Pedestrian Signal function though there is no specific title for the Signal. The last-named term is from Tripp 1950 and is the equivalent of the more commonly employed terms.

Classification #: 4112

Form of Aid: TCD Lighted Aid with possible sound and tactile dimensions.

Operation: A traditional all-lighted Aid with word and graphic symbols for pedestrian.

Comments: Sound and tactile elements have been added to some Pedestrian Signals. Signals linked to general Traffic Signal operations.

References: UN 1949, UN GERSS 1952, Canada 1976

The message component is made up of various forms of lights, words, and graphic symbols:

UN 1968 (and ECE 1995) employ non-flashing forms in a three-color version. Green indicates crossing may be made safely. Amber indicates do not cross but if in roadway continue movement. Red indicates vehicles are not to enter roadway. A two color form that includes a flashing green indication denoting the crossing period is nearly over and the red indication is about to be initiated. The two-color form is regarded as preferable to three-color forms though the latter is permitted. Lenses in these Signals display silhouettes of pedestrians: a standing figure for red and a walking figure for green.

US MUTCD 1948 employed standard Traffic Signal housing with circular lenses. The lens had an orange ground, black horizontal band the words "Walk" or "Wait" etched on the glass. Wait/Walk messages were changed to Walk and Don't Walk because the original messages have a similar appearance. A second form used neon tubing with the word messages of "Walk" and "Don't Walk"; both messages were to be in red.

US MUTCD 1961 used the message of Walk and Don't Walk exclusively. There

were two approved means of conveying the message: Green (Walk) and Red (Don't Walk) in gas-filled tubing, and White (Walk) and Orange (Don't Walk) in incandescent lighting. White contrasts with the latter Lunar White as does Orange with Portland Orange.

US MUTCD 1971. Messages were displayed from rectangular shaped units with negative (stop) messages in Portland orange, and positive (go) messages in Lunar white. The Don't Walk message displayed fixed lights which denoted no movements are to be made. A flashing message indicated the Walk message was turning to a Don't Walk message denoted too little time remained for a safe crossing. A steady Walk message indicates safe passage while a flashing message denotes vehicle-pedestrian conflict possible. US MUTCD 1978 continued the two box form of 1971 but also added a single box form for both messages. A graphic symbol was added in this edition that displayed a Portland orange hand and a Lunar White pedestrian silhouette; the older green and red gas-filled tubing form was dropped. US MUTCD 1988 has a similar pattern of technology and messages; that edition adds a single box form for both graphic symbol and word forms.

Canada 1976 displays a two-box form with orange and lunar white messages. Only the graphic symbols of orange hand and lunar white pedestrian are used.

PEDESTRIAN TRAFFIC LIGHTS. Term is a variant form from Wikipedia.  
Reference: Wikipedia

VIBROTACTILE PEDESTRIAN DEVICE. This Device employs a vibrating surface sensitive to touch for indicating the signal message.  
Reference: MUTCD 2000, 2003

#### 4B3 Traffic Signals-Other Forms

CYCLIST SIGNALS. UN 1968 refers to messages for a Traffic Signal employed for cyclists though no actual name is given. T-M Studies may have extrapolated the term from UN publications. The signal can include a graphic symbol of a cyclist on the Signal lens.

References: UN 1968, Part E

EMERGENCY-TRAFFIC SIGNALS/TRAFFIC CONTROL SIGNALS FOR EMERGENCY VEHICLES/EMERGENCY-VEHICLE TRAFFIC CONTROL SIGNAL/EMERGENCY SIGNALS. The basic term refers to a Signal that creates a right-of-way for emergency vehicles. The physical Signal form is similar to that of a standard Traffic Control Signal. A Sign indicating emergency services accompanies the Signal. UN 1968 refers to fire-fighting vehicles only. MUTCD 2003 employs the third term. The last term is found in T-M classifications. References: UN 1968, ECE 1995, US MUTCD editions

FERRY-BOAT LANDING SIGNALS. UN 1968 provides a signal message for Traffic Signals at Ferry-Boat Landings but does not give this Signal an actual name. The compiler may have coined the term from UN documents. Reference: Part E, UN 1968

IN-ROADWAY LIGHTS. Term for lights built into roadway. Messages indicate upcoming conditions that may require slowing or stopping. They are a special form of Traffic Signal though termed "Lights". Reference: US MUTCD 2003

LOW-FLYING AIRCRAFT SIGNALS. UN provides a message description for Signals for low-flying aircraft but there is no actual Signal name. The term may be coined from UN coverage of the message for these studies. Reference: Part E, UN 1968

MISCELLANEOUS SIGNALS. This term is a classification term for the Series. It includes Signals for Low-Flying Aircraft and Ferry-Boats. Reference: Parts E, H

ROAD SOUND SIGNALS. A term in Part J that was coined to distinguish Road Signals from rail, road, marine, aero Signals that were in close proximity. Reference: Part J

SCHOOL CROSSING SIGNALS/SCHOOL AREA TRAFFIC SIGNALS/

**SCHOOL SIGNALS.** Various terms are employed for regular Traffic Signals employed in school areas. These Signals have a pedestrian safety function. Flashing Beacons are also employed.  
References: US MUTCD editions

**TEMPORARY TRAFFIC CONTROL SIGNALS.** Terms for Signal employed in construction and other temporary traffic control zones.  
Reference: MUTCD 2003

**TRAFFIC SIGNALS FOR ONE-LANE, TWO-WAY FACILITIES.** This Signal appeared in US MUTCD 1978 though it seems likely that such a Signal existed before 1978. The Signal is intended for a bridge or tunnel too narrow for two vehicles to pass one another. While US MUTCD 1978 speaks of tunnels or bridges it would seem that narrow roads or damaged sections of roads would also require the Signal. Standard Traffic Signals are employed though conditions for use differ from standard Signals: the one-lane, two-way situation has a unique character: it assigns the right of way priority on an alternating basis for the same lane.  
Reference: US MUTCD 1978

**TRAFFIC SIGNALS AT FREEWAY ENTRANCE RAMPS/TRAFFIC [CONTROL] SIGNALS FOR FREEWAY ENTRANCE RAMPS/FREEWAY ENTRANCE RAMP CONTROL SIGNALS/RAMP CONTROL SIGNALS.** This Signal controls vehicles entering a freeway by admitting vehicles in increments through Traffic Signal indications. The Signals are of standard design and have at least two colors (Red and Green) and may add Yellow. This Signal is found in US MUTCD 1978. FHA (Amendments) replaces “at” with “for.” 2003 adds “Control”. The last two terms are from 1988.  
Reference: US MUTCD editions

**MOVABLE BRIDGE SIGNALS/DRAWBRIDGE SIGNALS/SWING BRIDGES/TRAFFIC SIGNALS AT DRAWBRIDGES/TRAFFIC CONTROL SIGNALS FOR MOVABLE BRIDGES.** US MUTCD 1978 and 1988 employ a new term that better describes bridges that move by rising or by revolving: Movable Bridge Signal indicates times when it is unsafe to proceed. Drawbridge

Signal is the most common term for these Signals. UN 1968 includes Signals for bridges within the Signals for Vehicular Traffic category. No specific name is given for the Signal that refers to swingbridges. Three-color Signals for Bridges display these messages: constant green indicates bridge is open to traffic; if long periods occur without closing the bridge then Flashing Yellow can be used. Red is for stop. FHA 1997 includes the last named term for the new edition of MUTCD. References: US MUTCD 1978, 1988, UN 1968

LANE CONTROL SIGNALS/LANE-USE CONTROL SIGNALS/LANE DIRECTION SIGNALS/LANE DIRECTION CONTROL SIGNALS/LANE-DIRECTION CONTROL SIGNALS. These multiple and variant terms apply to Signals regulating traffic for a given lane. The Signal is employed where periodical reversing of traffic is controlled (for example, rush hour variations of a temporary nature). The Signal refers largely to Canada and the US.

Messages include:

- Downward Green Arrow: Lane Open
- Steady Yellow "X": Vacate Lane/Lane to Close
- Steady Red "X": Lane Closed
- Flashing Yellow "X": Left Turn Permitted

References: Canada 1976, US MUTCD editions

PORTABLE TRAFFIC CONTROL SIGNALS. Term for a regular Traffic Signal that is needed for more than 30 days. A construction or maintenance project can extend the use of the Signal.

Reference: US MUTCD 1978

ROBOTS. A perhaps curious term for a standard Traffic Signal.

Reference: CASATC 1950

TRAFFIC LIGHTS FOR SPECIAL VEHICLES. This is a Wikipedia term for Signals in a special category of vehicles including buses and trams. Variant light systems can include light bars of white light in vertical or horizontal patterns.

Reference: Wikipedia

TRAFFIC LIGHT SIGNS. CASATC term for Traffic Signals. There are no Traffic Signs involved with the Device.  
Reference: CASATC 1950

TRANSIT PRIORITY SIGNAL. Manitoba and Ontario include this Signal which allows transit buses to have precedence over other traffic. A standard Traffic Signal adds a circular black ground with vertical white bar when on. See Also Traffic Lights for Special Vehicles.  
References: Manitoba 2007, Ontario 2003

#### 4B4 Flashing Beacons

##### a) Overarching Terms

TRAFFIC BEACONS. This seems to be an under-used term. Only a few US trade publications of a generally date vintage include the term. Yet it seems a plausible overarching term paralleling Traffic Signal and Traffic Marking.  
References: G.E. 1947, Eagle Signals

FLASHING BEACON. General Comments. This term is probably the most important overarching term for this category and the most important specific term. The term Signal often refers to a T-M form with multiple and changing messages. Beacon, by contrast, has an unchanging message (even if multiple or multi-faceted). Railway and road lighted forms are often viewed as Signals while marine and aero forms are often of the Beacon form. The Flashing Beacon resembles a marine Aid to Navigation in its functioning.

The Flashing Beacon is associated with a variety of Western Hemisphere nations as well as some Eastern Hemisphere nations (including Japan). It has a limited role in LN and UN systems. In fact, the Flashing Beacon with red lens is prohibited in UN 1968 for intersection control. By contrast, UN GERSS 1952 included both amber and red forms. Nations employing the Flashing Beacon have continued to do so after UN 1968. UN 1968 refers to several functions for the Flashing Beacon within the Traffic Signals for Vehicular Traffic category excluding the function noted above. UN 1968 permitted uses include a Signal for

low-flying airplane, and ferry-boat landing warnings. UN 1949 and UN 1968 allow for a single red lens at level-crossings; that contradicts the practice of nations that require two flashing lenses at crossings. Noble 1946 notes the use of flashing red lights (the term Flashing Beacon is not included) in France but that predates the UN systems. The older forms of the Flashing Beacon are of a unitary nature (housing of one unit with multiple lenses) while newer forms contain one or more segments of a single Traffic Signal housing.

The term Flashing Beacon is employed in Canada 1976, older editions of US MUTCD and in some traffic control and engineering literature. A logical alternative to Flashing Beacon would be the infrequently used Traffic Beacon.

US MUTCD 1971 and newer editions have largely eliminated the term Flashing Beacon; they instead use terms for specific forms: Hazard Identification, Speed Limit, Intersection Control, and Stop Beacons. The core term Beacon is included in newer editions of MUTCD. US MUTCD 1948 includes the color in the titles: Flashing Yellow Beacon, Flashing Red & Yellow Beacon. Succeeding editions of MUTCD vary in their treatment of Flashing Beacons. Some editions have brought the diverse forms of Flashing Beacons together while in other editions a more separated format is employed.

Classification #: 4121

Form of Aid: TCD Lighted Aid

Operation: Unvarying flashing messages though alternating for different directions of traffic (Yellow for caution; red for stop until road is clear).

Comments: There is no general consensus on the name for this Device. But Flashing Beacon constitutes an acceptable overarching term.

References: Canada 1976, US MUTCD 1961

BEACON. Older US MUTCD editions include Flashing Beacons; newer editions refer to specific forms with occasional references to Beacons as a generic term.

References: MUTCD editions

b) Specific Terms



FLASH LIGHTS. CASATC term for a red flashing light. There are two versions. One type with triangular-shaped sign denotes danger. The second version with a double sign of circular and rectangular shape denotes prohibition.

Reference: CASATC 1950

FLASHING YELLOW BEACON/FLASHING RED & YELLOW BEACON. US MUTCD 1948 includes the color(s) in the official name of Flashing Beacons. The Beacons in question conform to current forms under other names. US MUTCD 1948 does not include a Beacon under the title of Flashing Red Beacon and there is seemingly no reference in the literature. Though, of course, a Flashing Beacon with red-only lens is commonplace.

Reference: US MUTCD 1948

HAZARD IDENTIFICATION BEACON. US MUTCD 1971 and newer editions employ this term. Its functions existed before the title was employed. It consists of at least one circular yellow lens. It can mark obstructions, supplement Warning Signs, mid-block crosswalks and act as supplement to a variety of Regulatory Signs. See Also: Warning Beacon.

Reference: MUTCD 1971

INTERSECTION CONTROL BEACON. This form of Flashing Beacon may be the oldest form of this type of Signal. It is employed in a number of nations. This Beacon may have yellow-only lens, yellow and red lenses, or red-only lenses. At least two directions of traffic are covered by the Beacon. For Canada this is labeled a Flashing Beacon. At All-way Stops there are red lenses only.

References: US MUTCD 1971 and newer additions

SPEED LIMIT SIGN BEACON. This Beacon consists of one or two flashing yellow lenses accompanying a Speed Limit Sign. It is found in US MUTCD 1971 and newer editions. The 1988 edition allows a single lens version when the lens is oversized.

References: MUTCD editions

STOP BEACON. This Beacon seemingly replaces and broadens the older Stop Sign Beacon. It is employed as a supplement for Stop, Do Not Enter, and Wrong

Way Signs.

Reference: US MUTCD 2003

STOP SIGN BEACON. This MUTCD form accompanies a Stop Sign. It has one or two segments of a standard Traffic Signal and displays a flashing red light.

References: US MUTCD 1978

WARNING BEACON. FHA 1997 changes the name of the Hazard Identification Beacon for the new edition of US MUTCD.

Reference: FHA 1997

#### 4B5 Lighting Devices

General Note. US MUTCD includes a variety of Lighting Devices for Construction and Maintenance purposes. The Devices are not confined to the US though only the MUTCD has extensive coverage. Other sources, including Noble 1946, make references to Lights for special purposes including obstructions.

These Devices include:

#### LIGHTING DEVICES.

Classification #: 4126

Form of Aid: TCD Lighted Aid

Operation: A largely non-signal Device that displays flashing or fixed Lights primarily at construction/maintenance sites.

Comment: Lighting Devices supplement Signs, Barriers, Channelizing Devices. Some forms of Beacons can be included when in a Construction and Maintenance context.

References: US MUTCD 2003.

FLASHING WARNING BEACON. A form of Lighting Device that supplements Temporary TCD forms. The beacon operates continuously and denotes changing conditions in roadways and other functions.

Reference: US MUTCD 2000, 2003

FLOODLIGHTS. These Lights are included in this study since they can have

direct bearing on flagger stations and crossing zones in construction areas.  
Reference: US MUTCD 2003

**HAZARD IDENTIFICATION BEACONS (FLASHING ELECTRIC LIGHT)**  
. An older term for what is now termed Flashing Warning Light. Beacon may have suggested a signal Beacon.  
References: US MUTCD 1971

**STEADY-BURNING ELECTRIC LAMPS/STEADY-BURN ELECTRIC LAMPS.** These Lamps are of low wattage and yellow in color. They mark obstructions and barriers, and are added to longitudinal barriers for delineations of vehicles lanes through construction zones.  
Reference: US MUTCD 1988 (L), 2000, 2003 (R)

**WARNING LIGHTS.** These are portable units with lenses, and yellow in color. They can be either steady-burning or flashes. There are three forms:

TYPE A, LOW-INTENSITY FLASHING WARNING LIGHTS  
employed on Barricades, Drums, Vertical Panels, advance warning situations.

TYPE B, HIGH-INTENSITY FLASHING WARNING LIGHTS found at advance warning sites, or operates independently.

TYPE C, STEADY-BURN WARNING LIGHTS delineate detour-curve edges, lane changes, lane closures.

TYPE D, 360-DEGREE STEADY BURN WARNING LIGHTS

References: MUTCD editions

**SPECIAL LIGHTING UNITS.** These Units are trailer-mounted and supplement Signs, Pavement Markings, maintenance lighting.  
References: US MUTCD 1971 and newer editions

**ADVANCE WARNING ARROW PANELS/ARROW PANELS.** These are “sign panels with matrice of lights” that supplement other TCD forms. There are three forms:

Type A, Low speed urban streets functions.

Type B, “Intermediate facilities for maintenance or moving operations

on high-speed operations.”

Type C, “[H]igh-speed, high-volume construction projects [.]”

Messages are of four forms:

Left/Right Arrows- Flashing, sequential

Left/Right Chevrons- Sequential

Double Arrows- Flashing

Caution- Multiple lamps, direction not indicated

Arrow Panels is the short form of the term.

References: MUTCD editions

#### 4B6 Grade/Level Crossing Signals

ACTIVE TRAFFIC CONTROL SYSTEMS/ACTIVE GRADE CROSSING WARNING SYSTEM/ACTIVE TRAFFIC CONTROL DEVICES FOR HIGHWAY-RAILROAD GRADE CROSSING. These terms refer to flashing lights and gates at crossings. See Also: Passive Traffic Control Systems  
References: MUTCD 2000, 2003

AUTOFLAG. Corporate name for one brand of Wig-Wag Signal. Bryant Zinc Co seemingly did not use the term Wig-Wag. They described the Signal as an “Automatic Swinging Disc and Light Crossing Signal.”

References: Bryant Zinc Co. in <http://hom.att.net>

AUTOMATIC FLAGMAN. This term has been referred to as a Wig-Wag Signal though of a different configuration. When activated it displayed a swinging disc. The disc could be hidden behind a Sign reading “Look Listen” when not in use or the Disc could be seen but stationary. One brand of this was the Union Three Aspect Automatic Flagman.

References: King 1921, Solomon 2001, Brignano & McCullough 1981

FLASHING-LIGHT SIGNAL/FLASHING LIGHT SIGNAL. This term (and variant form) refers to Railroad Crossing Signals. It consists of two horizontal red flashing lights and indicates the presence of a train on the tracks on or near the crossing. MUTCD 1988 omits the hyphen. Single lens are allowed in UN practice which creates confusion with the Flashing Beacon in nations where such Beacons

are employed. UN 1949 has a section on level crossings but no specific name for Signals at level-crossings. UN 1968 subsumes level crossings into the Signals for Vehicular Traffic category. MUTCD 2000, 20003 speak of two forms: Post Mounted and Overhead Structures.  
References: US MUTCD editions

**HIGHWAY GRADE CROSSING WARNING DEVICES.** A term appearing in Part J of this Series. It is possibly a conflation of various terms that results in a general term. Possibly a currently non-located sources is responsible for the term.  
Reference: Part J

**MAGNETIC FLAGMAN.** A Wig-Wag Signal produced by the Magnetic Signal Company.  
Reference: Wikipedia

**NO RIGHT (LEFT) TURN SIGNAL.** US MUTCD 1961 includes this as a Signal. The device consists of a Sign topped by a flashing yellow Marker Lamp. Only this edition lists it as a Signal. MUTCD 1971 speaks of Sign but without mention of the Marker Lamp.  
Reference: US MUTCD 1961

**PASSIVE TRAFFIC CONTROL SYSTEMS.** Term seemingly refers only to railroad crossings and Signs and Pavement Markings at crossings.  
Reference: US MUTCD editions

**RAILROAD GRADE CROSSING SIGNAL.** General Comment. This is the equivalent of the Flashing-Light Signal though with a more explicit title. Flashing-Lights Signals tends toward vagueness outside of a railroad-crossing context. This term may be exclusive to US and listed in US MUTCD 1971. (It can be noted that IAMM 1967 reprints parts of US MUTC 1961 and thereby includes the term). Older editions of MUTCD employ the overall category heading of Railroad-Highway Grade- Crossing Protection while newer editions use Traffic Control Systems for Railroad-Highway Grade Crossings for the same purpose.

Classification #: 4126

Form of Aid: TCD Lighted Aid with possible sound and unlighted dimensions.

Operation: A multifaceted Device marking crossings. Flashing red lights are basic. Gates with Lights and Bells may be present.

Comments: Term includes diverse Aids which can include Level as well as Grade in the name. Diverse terms in this segment are subsumed by this term.

Reference: US MUTCD 1971, IAMM 1967

TRAIN APPROACH SIGNAL/TRAIN-APPROACH SIGNAL. This term and the variant form are catch-all terms for all forms of Lighted Safety Aids at Railway/-road crossings. It may be accompanied by the words "And Gates". The term refers mostly to the Western Hemisphere.

References: Canada 1976 (1st term), US MUTCD 1971 (2nd term)

TRAFFIC CONTROL SIGNALS AT OR NEAR HIGHWAY-RAIL GRADE CROSSING. Only the Signal part of the term may be a TCD while the remainder gives its specific locale. The Signal is employed at industrial sites and other places where train operations are very slow, intermittent such as for switching.

Reference: MUTCD editions

TRAFFIC LIGHTS AT LEVEL RAILROAD CROSSING. A Wikipedia variant terms that includes European and non-Western Hemisphere term of "Level."

Reference: Wikipedia

WAVELIGHT. Alternate term for Automatic Flagman. The mechanical movement of the metal flag was intended to simulate the waving of a red lantern by a railway worker. It was introduced by L.S. Brach Co. in 1912.

Reference: WRSC 1948

WIG WAG SIGNAL/WIGWAG CROSSING SIGNAL. A now obsolete Signal consisting of a red light mounted in a disc attached to a mechanism that acts as a pendulum. The second term offers a variant form.

References: US MUTCD 1948, 1961, King 1921

## CHAPTER FIVE

### TRAFFIC MARKINGS

#### 5A Indexes: Category and Alphabetical

##### 5A1 Category Index

#### Overarching & Sub-Overarching Terms with General Notes (5B1)

##### a) Overarching Terms with General Notes

General Notes I, II, III

Road Markings

Traffic Markings

Marking

Road Marking System

Marking & Delineation Devices

Marking Devices

Marking Systems

On-The-Roadway Markings

Road Marking & Delineation

Roadway Markings

Highway Markings

Carriageway Markings

Road/Traffic Markings

##### b) Sub-Overarching Terms

###### 1) Broader Terms

Alphanumeric Markings

Graphic Markings

Horizontal Markings

Horizontal Pavement Markings

Horizontal Signing

Pavement Markings

Pavement Surface Markings

Road Surface Markings

Road Delineation

Traffic Delineation Markings

Surface Markings

2) More Restricted Forms

Barricades & Channelizing Devices

Hazard Markings

Longitudinal Markings

Marked Surfaces

Multiple-Directions Markings

Object Markings

Obstruction Marking

Vertical Markings

Transverse Markings

Pavement & Curb Markings (5B2)

a) Longitudinal Markings

Longitudinal Markings

1) Center Line Markings

Center Line/Center-Line Markings/Centerlines/Center Markings/

Centerline Stripes/Pavement Centerlines

General Note

Centerline Markings for Shared-Use Paths

Directional Dividing Line

Double Center Lines

2) Edge Lines

Edge Lines/Edge Line Markings/Edge Line Pavement Marking/Edge

Markings/Edge-Markings/Edge of Carriageway Markings/Pavement

Edge Lines/Pavement Edge Line Markings/Pavement Edge

Markings/Border Lines Indicating the Limits of the Carriageway/

Carriageway Edgeline/Carriageway Limit Lines

3) Lane Markings

Channelizing Lines

Lane Lines

Lane Lines at Controlled Intersections

Lane Markings

Lane Reduction Transition Markings

Pavement-Width Transition Markings



- Reserved Lane Markings
- Road Markings for a Lane Reserved for Certain Categories of Vehicles
- Temporary Lane Markings
- Traffic Lane Markings
- 4) Other Longitudinal Markings
  - Continuous Lines for “Particular Situations”
  - Guide Lines for Turning Vehicles/Turn Markings/Turning Movements  
Of Vehicles Markings
  - Lane Lines & Right Edge Line Pavement Markings/Centerlines &  
Left Edge Line Pavement Markings/Yellow Centerline Pavement  
Markings/White Lane Pavement Markings/Lane Line Pavement  
Markings
  - Longitudinal Pavement Markings
  - Markings for Bicycle Lanes
  - Markings of Obstructions [Dual Category]
  - Markings at Particular Locations
  - Markings for Particular Situations
  - Marking Extensions Through Intersections or Interchanges/Pavement  
Marking Extensions Through Intersections
  - Markings for Other Circular Intersections
  - Markings for Roundabout Intersections
  - No-Passing Zone Markings/No-Passing Markings
  - Paved-Shoulder Markings
  - Pedestrian Lines
  - Street Clearance & Transit Vehicle Guide Lines
- b) Transverse Markings
  - Transverse Marking
  - Cross-Walk/Crosswalk Lines/Crosswalks/Crossing Markings/  
Pedestrian Crossings
  - Cyclist Crossings
  - Intersection Markings
  - Lines Indicating Points at Which Drivers Must Give Way
  - Oblique Parallel Lines
  - Railroad Crossing Markings/Railroad Crossing Advance Markings/  
Railroad-Highway Grade Crossing Pavement Markings/Approaches

- to Railway Crossing Markings/Highway-Rail Grade Crossing Pavement Markings
- Stop Lines/Stop Bars/Limit Lines
- Transverse Lines at Controlled Junctions/Transverse Lines at Uncontrolled Junctions
- c) Other Pavement & Curb Markings
  - Advanced Speed Hump Markings
  - Arrow Markings/Legend & Symbols/Word Markings/Word Messages/Word & Symbol Markings/Arrows
  - Approach Markings for Obstructions in Roadway/Markings of Obstructions
  - Bicycle Detector Markings
  - Colored Pavement
  - Curb Markings/Curb Markings for Parking Restrictions
  - Directional Markings
  - Dynamic Envelope Delineation Markings/Dynamic Envelope Markings/Dynamic Envelope Pavement Markings/Train Dynamic Envelope Pavement Markings
  - Exit & Entrance Interchange Ramp Markings
  - Intersection Pavement Markings
  - Median Islands Formed by Pavement Markings
  - No-Passing Pavement Markings
  - Parking Markings/Parking Space Markings/Marking of Parking Space Limits/Parking Space Lines
  - Paved-Shoulder Markings
  - Preferential Lane Word & Symbol Markings
  - Preferential Lane Longitudinal Markings for Motor Vehicles
  - Reflective Pavement Legends
  - Speed Hump Markings
  - Speed Measurement Markings
  - Standing & Parking Regulations Markings
  - Stop & Yield Lines Markings
  - Yield Lines
- d) Physical Pavement Markings Forms
  - General Note

- 1) Raised Pavement Markers
  - Raised Pavement Markers
  - Bi-Convex Reflectors
  - Cats-Eyes/Cats Eye-Retro Reflectors
  - Corner-Cube Reflectors
  - Lens-Type Reflector
  - Luminous Mark
  - Non-Reflective Markers
  - Non-Retro-Reflective Markers/Non-Retro Reflective Markers/  
Non-Retro-Reflective Ceramic Markers/Non-Retro-  
Reflective Buttons/Non-Retro-Reflective Raised Pavement  
Markers/Nonretro-Reflective Buttons
  - Protruding Markers
  - Raised Markings/Raised Horizontal Markings
  - Raised Pavement Markers (RPMs)
    - Raised Reflective Pavement Markers/Raised Reflective  
Markers/Reflective Pavement Markings/Markers
    - Snowplowable Reflective Markers/Recessed Reflective Marker
  - Raised Marking Systems
  - Raised Retro-Reflective Markers
  - Reflector Studs/Reflecting Road Studs/Catseyes
  - Reflecting Button
  - Reflective Markers
  - Retro-Reflection
  - Retro-Reflectorized Buttons
  - Retro-Reflective Markers
  - Retro-Reflective Marks
  - Reflex Reflectors
  - Rumble Strips/Rumble Stripes/Audible Roadway Delineation
  - Self-Luminous Reflectors
  - Studs
- 2) Traffic Marking Physical Terms-Morphological/Physical
  - General Note
  - Amber Markers/Green Markers/Red Markers
  - Bi-Directional Red & White Retro-Reflective Markers

- Bi-Directional Edgeline Markers
- Cats Eye Centerline Marking
- Channelization Markers
- Edgeline Raised Markers
- Painted Lines
- Raised Reflective Lane Markers
- 3) Other Horizontal Markings
  - Ceramic Marker
  - Collimating System
  - Coloured Cement Concrete Marking
  - Electrically Powered Emissive Markings
  - Expendable Markers
  - Formed-in-Place Markers
  - Hot-Applied Surface Marking
  - Magnetic Markers
  - Paint Markings
  - Pavement Surface Markings
  - Radioactive Emissive Markers
  - Snap-over Markers
  - Surface Dressing Markings
  - Traffic Paint Markings

5B3 Hazard & Delineation Markings

a) Hazard/Obstruction Markings

- General Note
- Approach Markings for Obstructions
- Hazard Markers
- High-Level Warning Devices (Flag Trees)
- Clearance Markers
- Markers for Objects in the Roadway/Markers Adjacent to the Roadway
- Markings for Objects in the Roadway/Markings Adjacent to The Roadway
- Markings of Obstructions
- Object Markers, Types I, II, III
- Object Markers on Shared-Use Path

Obstruction Pavement Markings/Pavement Markings for  
Obstructions

End of Road Marker/End-of-Roadway Markers/End-of-Roadway  
Markings

Reflective Markers

b) Delineators

General Notes

Delineators/Road Delineators/Road-Edge Delineators, Post  
Mounted Markers/Post-Mounted Delineators/Road-Edge  
Delineator Markers/Shoulder Delineation Markers/Roadside  
Delineators/Road-Delineation/Post Delineators/Road-side  
Delineators/Roadway Delineators

Delineators-Curb/Delineators

Guide Markers/Guide Posts

Bidirectional Reflective Delineators/Monodirectional Markers

Curb Markings for Roadway Delineation

c) Barricades & Channelizing Devices

General Notes

Channelizing Devices

Channelizing Devices-Traffic Cones

Traffic Cones/Tubular Markers/Cones/Vertical Panels/Portable  
Flasher Supports/Drums

Barricades, Types I, II, III

Heavy Barricades/Light Barricades

Barricades-Portable/Barricades-Permanent

## 5A2 Alphabetical Index

Advanced Speed Hump Markings	245
Alphanumerical Markings	233
Amber Markers/Green Markers/Red Markers	253
Approach Markings for Obstructions	256
Approach Markings for Obstructions in Roadway	245-246
Approaches to Railroad Crossing Markings/ Approaches to Railway Crossing Markings:	
Railroad Crossing	244
Arrow Markings/Arrows	245
Audible Roadway Delineation: Rumble Strips	252-253
Barricades, Types I, II, III	261-262
Barricades & Channelizing Devices	235, 260
Barricade-Portable/Barricade-Permanent	262
Bi-Convex Reflectors	249
Bicycle Detector Markings	246
Bi-Directional Red & White Retro-Reflective Markers	253
Bi-Directional Edgeline Markers	253
Bidirectional Reflective Delineators	260
Border Lines Indicating the Limits of the Carriageway Edge: Edge Lines	238
Carriageway Edgelines: Edgelines	238
Carriageway Markings	233
Cats Eye Centerline Markings	253
Cats-Eyes/Cats Eye-Retro Reflector	249-250
Catseyes: Reflecting Road Studs	251
Center Lines/Center-line Markings/Centerlines/ Centerline Stripes/Center Markings/Pavement Centerlines	237
Centerline Markings for Shared-Use Paths	237
Ceramic Markers	254

Channelization Markers	254
Channelizing Devices	260-261
Channelizing Devices-Traffic Cones	261
Channelizing Lines	239
Clearance Markers	256-257
Collimating System	254
Colored Pavement	246
Coloured Cement Concrete Markings	254
Cones: Traffic Cones	261
Continuous Line for "Particular Situations"	240
Corner-Cube Reflectors	250
Cross-Walk/Crosswalk Lines/Crosswalks/ Crossing Markings/Pedestrian Crossings	243
Curb Markings for Roadway Delineation	260
Curb Markings/Curb Markings for Parking Restrictions	246
Cyclist Crossings	243
Delineators	259
Delineation Devices/Delineators/Road Delineators/ Road-Edge Delineators/Post Mounted Markers/ Post-Delineators/Road-Edge Delineator Markers/Shoulder Delineator Markers/ Roadside Delineators/Roadway Delineators	259
Delineator-Curb/Delineators	259
Directional Dividing Line	237-238
Directional Markings	246
Double Center Lines	237-238
Drums: Traffic Cones	261
Dynamic Envelope Delineation Markings/ Dynamic Envelope Markings/Dynamic Envelope Pavement Markings	246-247
Edge Lines/Edge Markings/Edge-Markings/Edge of Carriageway Markings/Edge Line Pavement	

Markings/Pavement Edge Lines/Pavement Edge Line Markings/Pavement Edge Markings/ Border Lines Indicating the Limits of the Carriageway/Carriageway Edgelines/ Carriageway Limit Lines	238
Edgeline Raised Markers	254
Electrically Powered Emissive Markers	254
End of Road Markers/End-of-Roadway Markers/ End-of-Roadway Markings	258
Exit & Entrance Interchange Ramp Markings	247
Expendable Markers	254-255
Formed-in-Place Markers	255
Graphic Markings	233
Guide Lines for Turning Vehicles	240
Guide Markers/Guide Posts	260
Hazard & Delineation Markings	256
Hazard Markers	256
Hazard Markings	235
Hazard/Obstruction Markings	256
Heavy Barricades	262
Highway Markings	212
Highway-Rail Grade Crossing Pavement Markings: Railroad Crossing	244
High-Level Warning Devices (Flag Tree)	256
Horizontal Markings	254
Horizontal Pavement Markings	233
Horizontal Signing	233-234
Hot-Applied Surface Markings	255
Intersection Markings	243
Intersection Pavement Markings	247
Lane Lines	239



Lane Lines & Right Edge Line Pavement	
Markings/Markings/Centerlines & Left Edge	
Line Pavements/Yellow Centerline Pavement	
Markings/White Lane Pavement Markings/	
Lane Line Pavement Markings/White Lane	
Pavement Markings/Lane Line Pavement	
Markings	240-241
Lane Lines at Controlled Intersections	239
Lane Markings	238-239
Lane Reduction Transition Markings	239
Legends & Symbols: Arrow Markings	245
Lens-Type Reflectors	250
Light Barricades: Heavy Barricades	262
Limit Lines: Stop Lines	244
Lines Indicating Points at Which Drivers Must	
Give Way	244
Longitudinal Markings	235, 236-237, 240
Longitudinal Pavement Markings	241
Luminous Marks	250
Magnetic Markers	255
Marked Surfaces	235
Markers for Objects in the Roadway/Markers	
Adjacent to the Roadway	257
Markings	231
Marking Devices	232
Marking & Delineation Devices	231-232
Markings at Particular Locations	241
Markings Extensions Through Intersections or	
Interchanges/Pavement Markings Extensions	
Through Intersections	241-242
Markings for Bicycle Lanes	241
Markings for Objects in the Roadway/Markings	
Adjacent to the Roadway	257
Markings for Other Circular Intersections	242

Markings for Roundabout Intersections	242
Markings for Particular Situations	241
Marking of Obstructions	257
Marking of Obstructions (Dual Category)	241
Marking Parking Space Limits: Parking	247-248
Marking Systems	232
Median Islands Formed by Pavement Markings	247
Monodirectional Markers: Bidirectional	260
Multiple-Directions Markings	236
No-Passing Pavement Markings	247
No-Passing Zone Markings/No-Passing Markings	242
Non-Reflective Markers	250
Non-Retro-Reflective Markers/Non-Retro Reflective Markers/Non-Retro-Reflective Ceramic Markers/Non-Retro-Reflective Buttons/Non-Retro-Reflective Raised Pavement Markers/Nonretro-Reflective Buttons	250
Oblique Parallel Lines	244
Object Markers, Types I, II, III	257-258
Object Markers on Shared-Use Path	258
Object Markings	236
Obstruction Markings	236
Obstruction Pavement Markings	258
On-the-Roadway Markings	232
Paint Markings	255
Painted Lines	254
Parking Markings/Parking Space Markings/ Parking Space Lines/Parking Space Limits	247-248
Pavement and Curb Markings	236, 245
Pavement Centerlines: Center Lines	236-237
Pavement Edge Lines/Pavement Edge Line Markings/Pavement Edge Markings/Pavement	

Edgemarkings: Edgelines	238
Pavement Markings	234
Pavement Markings for Obstructions: Obstructions	258
Paved-Shoulder Markings	242
Pavement Surface Markings	234, 255
Pavement-Width Transition Markings	239
Pedestrian Crossings: Cross-Walk	243
Pedestrian Lines	242
Physical Pavement Markings	249
Portable Flasher Support: Traffic Cones	261
Post Delineators: Delineation Devices	259
Post Mounted Markers/Post-Mounted Markers	259
Preferential Lane Word & Symbol Markings	248
Preferential Lane Longitudinal Markings for Motor Vehicles	248
Protuding Markers	250
Radioactive Emissive Markers	244, 255
Railroad Crossing Markings/Railroad Crossing Advance Markings//Railroad-Highway Grade Crossing Pavement Markings	244
Raised Markings/Raised Horizontal Markings	250-251
Raised Marking Systems	250, 251
Raised Pavement Markers (RPM)	249
Raised Reflective Lane Markers	254
Raised Reflective Pavement Markers/Raised Reflective Marker/Reflective Pavement Markings/Markers	251
Raised Retro-Reflective Markers	251
Recessed Reflective Marker	251
Reflecting Road Studs: Reflector Studs	251
Reserved Lane Markings	239
Reflecting Buttons	251-252
Reflector Studs/Reflecting Road Studs/Catseyes	251
Reflective Markers	252, 258

Reflective Pavement Legends	248
Reflex Reflectors	252
Retro-Reflection	252
Retro-Reflective Marks	252
Retro-Reflector Markers	252
Retro-Reflectorized Buttons	252
Road-Delineation Markers: Delineation Devices	259
Roadway Delineation	234
Road Markings	230-231
Road Marking & Delineation	232
Road Markings for a Lane Reserved for Certain Categories of Vehicles	240
Road Marking System	231
Road Surface Markings	234
Roadside Delineators: Delineations Devices	259
Road/Traffic Markings	233
Roadway Delineation	234
Roadway Delineators: Delineation Devices	259
Roadway Markings	232
Rumble Stripes/Rumble Strips/Audible Roadway Delineation	252
Self-Luminous Reflectors	253
Shoulder Delineation Markers	259
Snap-Over Markers	255
Snowplowable Reflective Markers	251
Speed Hump Markings	248
Speed Measurement Markings	248
Standing & Parkings Regulations Markings	248
Stop & Yield Line Markings	249
Stop Lines/Stop Bars/Limit Lines	244-245
Street Clearance & Transit Vehicle Guide Lines	242
Studs	253
Surface Dressing Markings	255
Surface Markings	235

Temporary Lane Markings	240
Traffic Cones	261
Traffic Delineation Markings	234
Traffic Lane Markings	240
Traffic Markings	229, 231, 252, 253
Traffic Paint Markings	265
Train Dynamic Envelope Pavement Marking:	
Dynamic	246-247
Transverse Lines at Controlled Junctions/ Transverse Lines at Uncontrolled Junctions	245
Transverse Markings	236, 243
Tubular Markers/Cones/Vertical Panels/ Portable Flasher Drums: Traffic Cones	261
Turn Markings: Guide Lines	240
Turn Movements of Vehicles: Guide Lines	240
Vertical Markings	236
Vertical Panels: Traffic Cones	261
White Lanes Pavement Markings	241
Word & Symbol Markings: Arrows	245
Word Markings: Arrows	245
Word Messages: Arrows	245
Yield Lines	249

## 5B Traffic Markings

### 5B1 Overarching & Sub-Overarching Terms With General Notes

#### a) Overarching Terms with General Notes

General Note I. Traffic Markings and Road Markings are the primary terms in this coverage. Yet the unencumbered term of Markings needs be seriously considered since US MUTCD editions have centered on Markings as the general overarching term. However, the word Markings is generally not adequate especially when it is used alone. It needs to be placed within a TCD context in order to be adequate. There are several two-word terms that are more viable for these types of Markings. One of these, Pavement Markings, is often employed as an overarching term, and even though it encompasses much of the subject it does not cover all aspects. Road Markings and Traffic Markings are in a virtual “dead-heat” as the primary, overarching term for the subject; both are employed in the Database. Carriageway Markings can be considered as an additional alternative.

General Note II: If one focusses on the core elements of Signs and the core elements of Road/Traffic Markings there is little confusion over what the terms mean and what the respective functions are. But when one moves away from the core meaning then confusion can be generated over the meanings of Road/Traffic Markings, and of Signs. An explanation on how they differ, how they overlap, what constitutes their core identity is therefore needed.

Many Traffic Markings are of a horizontal nature while most of the remaining forms are vertical though of short stature. Signs are always vertical and in most instances well off the ground. One may not be able to say with precision what the height of a Marking can be, or that of a Sign but Signs are taller than vertical Markings. Road/ Traffic Markings denoting obstructions may have a more developed vertical dimension; nonetheless, the character of that Marking displays a similar pattern associated with horizontal devices. Markings may have word and numerical forms when horizontal. But Markings on the pavement with words and numbers are not Signs though OECD speaks of Traffic Markings as a kind of Horizontal Signing. Markings of a vertical nature may display graphic symbols

but these have a different character. Signs with graphic symbols (and without words/numbers) occupy a portion of the sign board but do not cover it. This is also true for Warning Chevron Signs in which the symbols occupy only part of the sign board.

Barricades and Channelizing Devices were part of Construction and Maintenance TCD forms for US MUTCD for a number of years. But they have been transferred to Traffic Markings. A vertical dimension is present yet the essential nature of Markings is present.

Markings may not exhibit all core characteristics (horizontal or very short, a lack of graphic/word symbols, symbols that encompass the surface) but one or more of the principles is solidly in evidence and all three may be present.

Homburger 1977 regards Milepost Markers as Markings. But MUTCD places Mileposts in Signs. The presence of word/number symbols supports the MUTCD view. Dangerous over-passes may be encompassed in Markings (black/yellow stripes) but even in that instance words and numbers which are present constitute Signs and have an identity separated from Markings.

Noble 1946, a major historical source, offers a variant view of Traffic Markings. He remarks that "white lines on carriageways (roadways) are also considered as being traffic signs." This suggests a broad view of Signs as including anything aiding road safety without regard to its character.

General Note III: Markings -- when employed as a short form of Traffic Marking -- is one component of Transportation-Markings. It is NOT a synonym for T-M despite the erroneous practice of those who redefine T-M as merely another term for Road/Pavement/Traffic/Carriageway Markings.

**ROAD MARKINGS.** The term Road Markings (along with Road Signs, Road Signs) is often employed in Europe (including documents detailing with European practice). There is a possible underlying philosophy in Europe that attaches TCD forms to the road while Western Hemispheric practice relates TCD forms to the movement of vehicles (that is, to traffic). That hypothesis may be little more than

speculation. European practice refers to Road Signals, Signs, and Markings but not have a Road Control Devices term (cp: Traffic Control Devices) This study views the term Road Markings as nearly as significant as Traffic Markings. References: UN 1968, UN ECE 1957, 1995

#### TRAFFIC MARKINGS.

General Note. This basic term requires a classification entry. However, the classification includes both Traffic Markings and Traffic Signs within an Unlighted category. And the subdivisions are the basic components of each form of Aid. There is currently no basic subdivisions under Traffic Marking (nor one under Traffic Signs either). The classification needs to be revised so as to include those basic components.

This term can be regarded as nearly in tandem with Road Markings. It is a frequently employed term especially in the Western Hemisphere. The term closely allies Pavement and other Markings with traffic situations. It is more directly related to movements of vehicle and pedestrian.

References: RDPHB 1981, Homburger 1977

MARKINGS. This may prove to be an overly inclusive term that can be confused with T-M or other forms of TCDs. This usage of the term is largely confined to the Western Hemisphere and especially to North America. Markings works within the context of TCD but its meaning becomes elusive when used independently. Within a TCD context Markings can become an overarching term similar to that of Road, Traffic Markings.

References: Canada 1976, MUTCD editions, RORT 1965 (UK)

ROAD MARKING SYSTEM. A term preceded by European that is a publication title. It can also serve as an overarching term that focusses on Markings as a system.

Reference: OECD 1975

MARKING & DELINEATION DEVICES. An overarching term for Pavement Markings, Raised Pavement Markers, Delineators. OECD describes these Devices as "... an information system providing continuous guidance to drivers on the road



... ." Information system can serve as a key focus for all of T-M.

Reference: OECD 1975, page 15

**MARKING DEVICES.** An overarching term for Pavement (Horizontal) Markings, Delineators, and Raised Pavement Markers.

References: OECD 1975

**MARKING SYSTEMS.** An overarching term for *Traffic Control Devices Handbook* (TCDHB) and OECD. The first source includes Road Surface Markings, Post-mounted Delineators, Object Markers. Curbs adjoining marked areas can also be included. Few details are available with second source.

References: OECD 1975, TCDHB 1983

**ON-THE-ROADWAY MARKINGS.** This term is a synonym of Roadway Marking as described by TCDHB. While it may appear to be narrower in scope yet its employment in that publication suggests a similar usage. A possible narrower meaning cannot be ruled out.

Reference: TCDHB 1981

**ROAD MARKING & DELINEATION.** This term is the title of an OECD publication. It is similar to a second OECD term: Marking & Delineation Devices.

Reference: OECD 1975

**ROADWAY MARKINGS.** A term apparently employed only by TCDHB. It can be used as a synonym for more frequently employed terms. The word "Roadway" seems to be the equivalent of Carriageway. TCDHB also refers to On-the-Roadway Marking which may suggest a narrower scope.

Reference: TCDHB 1983

**HIGHWAY MARKINGS.** This term, rarely employed, is a possible overarching term. Highway may suggest rural roads and therefore outside towns and cities. However, in US parlance, Highway can have a broader meaning as can be seen in the term Highway Signals. *Roadway Delineation Practices Handbook* (RDPHB) 1981 includes a few references to the term.

Reference: RDPHB 1981

**CARRIAGEWAY MARKINGS.** A term employed as an overarching term by a variety of sources especially in UK and European sources. Carriageway is the equivalent of roadway and Carriageway Markings may suggest Roadway Markings which see.

References: UN 1968, UN ECE 1995, RORT 1965, MOT 1969

**ROAD/TRAFFIC MARKINGS.** A combined term sometimes employed in the 1st edition. It was an attempt to employ two basic terms together. But not employed in this edition.

Reference: Part Iii, 1st edition

#### b) Sub-Overarching Terms

##### 1) Broader Terms

**ALPHANUMERIC MARKINGS.** A term in T-M classifications intended to bring together Surface Markings of specialized forms. A possible term from other sources.

References: Part E, Part H

**GRAPHIC MARKINGS.** A term in T-M classifications that brings together Surface Markings of specialized forms. A possible term in other sources.

References: Part E, Part H

**HORIZONTAL MARKINGS.** An alternative term for Pavement Markings that are generally horizontal in form. It can be viewed as a near-overarching term since it can encompass many forms of Pavement Markings.

References: OECD 1975, Part E, Part H

**HORIZONTAL PAVEMENT MARKINGS.** A term for Horizontal Markings other than Raised Pavement Markers.

Reference: OECD 1975

**HORIZONTAL SIGNING.** An apparent synonym for Road Markings for OECD.

Reference: OECD 1975

**PAVEMENT MARKINGS.** This term is absent from UN 1968 and ECE 1995, and little used in Europe. It is employed in UN GERSS 1952 and UN ECAFE 1964 and frequently used in the Western Hemisphere. ECAFE expands the term to include Curb/Kerb Markings. For Canada 1976 it is one of two subdivisions for this category. For US MUTCD it makes up one of several primary categories. References: UN 1968, ECE 1995, UN GERSS 1952, UN ECAFE 1964, Canada 1976

**PAVEMENT SURFACE MARKINGS.** A synonym or nearly so for Road Markings and related terms. Road Surface Markings (see following entry) appears to be the equivalent of this term. Reference: OECD 1975

**ROAD SURFACE MARKINGS.** For ECE 1995 and UN 1968 this term is an apparent synonym for Road Markings since both terms seemingly have the meaning of Pavement Markings. ECE 1995 Marking of Obstructions is within Road Markings; obstructions are apparently outside Surface Markings. References: ECE 1995, UN 1968

**ROADWAY DELINEATION.** This term can generate possible confusion. Often time the basic term, Delineator, refers to reflective elements on short posts at the edge of roadways. However, RDPHB 1981 defines Delineation devices as any object (other than Signs) that helps to guide, provides track data, directs vehicles on a roadway. Only Barricades and Channelizing Devices, and Obstruction Markings are not included; and it is possible that parts of those categories are also included. This use of Delineation qualifies as a sub-overarching term and possibly a partial overarching term. Reference: RDPHB 1981

**TRAFFIC DELINEATION MARKINGS.** A term from RDPHB references, and a possible alternative term for Roadway Delineation though a nuanced distinction may be present. Reference: RDPHB 1981

**SURFACE MARKINGS.** An infrequently employed term. It may be closer in meaning to Pavement Markings than Road or Traffic Markings though a broader usage cannot be ruled out. Surface Markings in ECE 1957 are those on the surface; they also include "Other Markings." See Also: Road Surface Markings. Reference: ECE 1957

## 2) More Restricted Forms

**BARRICADES & CHANNELIZING DEVICES.** These Devices are used in North American practice. They are often associated with Construction & Maintenance work though the US added a non-C & M section in 1978. Barricades are larger than many other Traffic Markings yet lack recognizable Sign elements. Channelizing Devices are often of small stature and movable. References: Hawkins 11-92, MUTCD 1988

**HAZARD MARKINGS.** Canada 1976 employs this term for various Obstruction Markings. It is conjoined with Delineation Markings thereby creating a basic category. All Markings, other than Pavement Markings, are in that combined group. Reference: Canada 1976

**LONGITUDINAL MARKINGS.** The primary characteristic of these Markings is that of length; such Markings parallel the direction of pavement. They consist of lines broken, and continuous, single and double. They indicate Centerlines, Lane Lines, Roadway edges, occasionally obstructions. The term is a general one for a variety of systems. References: UN 1968, UN ECE 1995, ECAFE 1964, GERSS 1952

**MARKED SURFACES.** The meaning of this term is not entirely clear. It is a component of Markings that includes longitudinal and transverse lines as well as arrows. Such Markings may possibly include situations where a more substantial part of the pavement is covered with paint or other materials. Reference: OECD 1975

**MULTIPLE-DIRECTIONS MARKINGS.** A term in T-M classifications that refers to Surface Markings of a specialized form that are brought together.  
References: Part E, Part H

**OBJECT MARKINGS.** A US term for various Obstruction Markings. It is the equivalent of Canada's Hazard Markings.  
References: US MUTCD 1961, 1971

**OBSTRUCTION MARKING.** A plausible term for TCDs yet is it employed in the literature? Admittedly it appears in these Studies. It is possible that the UN term Marking of Obstructions was reworked by the compiler into Obstruction Markings.  
Reference: T-M Studies; see also: UN 1968

**VERTICAL MARKINGS.** A term in T-M classifications and possibly other sources for Delineators and other Devices.  
References: Part E, Part H

**TRANSVERSE MARKINGS.** These Markings, in contrast to Longitudinal Markings, run across roadways. Crosswalk Markings and Stop Lines are common forms.  
Reference: RORT 1965, ECAFE 1964, UN 1968

## 5B2 Pavement & Curb Markings

### a) Longitudinal Markings

#### **LONGITUDINAL MARKINGS.**

Classification #: 4340

Form of Aid: TCD Unlighted Aid

Operation: Lines produced through paint, thermoplastics, Raised Pavement Markers that indicate driving lanes, no-passing lanes, roadway edges and other uses.

Comments: Lines highlighted by a linear character that is parallel with roads. Wainwright describes a situation in which some nations or regions employ yellow

for centerlines and white for edges. While others display a reverse pattern. Yet other nations have a nearly white color. An agreed-upon pattern for global usage is clearly lacking.

References: UN 1968, UN ECE 1995, US MUTCD editions, Wainright 2005

### 1) Center Line Markings

#### CENTER LINES/CENTER-LINE MARKINGS/CENTERLINES/CENTER MARKINGS/CENTERLINE STRIPES/PAVEMENT CENTERLINES

General Note. These terms refer to a common function: a line affixed to the center of a roadway that divides opposing directions of traffic. Canada 1976 employs a different term that may better describe the function: Directional Dividing Lines. The variety of lines and meanings can be summed up in a few basic norms.

UN GERSS 1952 and ECAFE 1964 speak of a single solid line that is not to be crossed. UN 1949 refers to Road Markings in general terms but without a precise description of Centerlines. UN 1968 has no precise term for this function though it does refer to the use of broken lines in that role. UN 1968 includes that function within the Traffic Lane Markings category. US MUTCD editions include a broken yellow line which indicates that passing (overtaking) is allowed. Double solid lines prohibit passing in both directions. A single yellow line in conjunction with a broken line prohibits passing in one direction (the lane in which the solid line appears). Canada, UN 1968, ECAFE 1964, UN GERSS 1952 all permitted yellow or white in color codes for this purpose. All but Canada 1976 permitted silver or light gray for fulfilling the requirements for white.

References: Canada 1976, ECAFE 1964, Lay 1991, UN 1968, UN GERSS 1952, US MUTCD editions

CENTERLINE MARKINGS FOR SHARED-USE PATHS. Term for Markings shared by bicycles, motor vehicles and other users.

Reference: US MUTCD 2000

DIRECTIONAL DIVIDING LINE. Canada 1976, as previously noted, employs a more descriptive term for Centerlines. Canada employs a broken yellow line in

rural areas while a single solid line denotes prohibition on passing. Undivided multi-lane highways are marked by a double solid line. Four lanes roads in urban areas have a single solid line. High speed highways have a double solid line.  
Reference: Canada 1976

DOUBLE CENTER LINES. This term appears in Hawkins (11-92) and refers to US MUTCD 1948. This appears to be a separate term. Other sources include variety of lines within the single term Center Lines but in this instance one form takes on a separate name and identity.  
Reference: Hawkins (11-92)

## 2) Edge Lines

EDGE LINES/EDGE LINE MARKINGS/EDGE LINE PAVEMENT MARKING/EDGE MARKINGS/EDGE-MARKINGS/EDGE OF CARRIAGEWAY MARKINGS/PAVEMENT EDGE LINES/PAVEMENT EDGE LINE MARKINGS/PAVEMENT EDGE MARKINGS/BORDER LINES INDICATING THE LIMITS OF THE CARRIAGEWAY/CARRIAGEWAY EDGELINES/CARRIAGEWAY LIMIT LINES. These terms carry out what appears to be a single function: Lines that denote the edge of pavement rather than lanes within a roadway/carrageeway. Canada 1976 offers a variant form of Edge Marking: a white solid line on the right of the lane but yellow when to the left. UN 1968 allows either either yellow or white lines which can also take the form of reflective elements ("reflex reflectors"), studs or buttons. UN GERSS 1952 includes only general norms and omits specifics for Edge Markings. UN ECAFE 1964 is often similar to UN GERSS but not in this instance. ECAFE includes broken lines or allows an alternate solution if it is different from Lane Markings. A continuous line is permitted if width is different from barrier lines. Studs, reflectors, buttons can be employed as an alternate. UN 1968 employs a cumbersome term: Border Lines Indicating the Limits of the Carriageway. US MUTCD follows the standard practice of white solid lines for roadway edges. However, the left lines are yellow on divided highways and one-way streets.  
References: Canada 1976, UN GERSS 1952, UN ECAFE 1964, US MUTCD

## 3) Lane Markings

**CHANNELIZING LINES.** These Lines are double, white, continuous, or a wide single line. They are employed to create traffic islands when traffic flowing in the same direction can travel on both side of the Lines.

Reference: US MUTCD 1988

**LANE LINES.** A term largely found in the Western Hemisphere. These Lines delineate lanes on multi-lane highways. They commonly display broken, white, single lines.

References: Canada 1976, US MUTCD editions, RDPHB 1981, RORT UK 1965

**LANE LINES AT CONTROLLED INTERSECTIONS.** These Lines represent a UK practice. These Lines are installed at or adjacent to signalized interesections where multiple lanes are created with roadway delineation.

Reference: RORT 1965

**LANE MARKINGS.** This is a seemingly informal term from Hawkins which serves as a synonym for Lane Lines. However, Hawkins often employs the more common term.

Reference: Hawkins, 7-92

**LANE REDUCTION TRANSITION MARKINGS.** This form of Pavement Marking indicates where lanes are reduced and simultancously provides guidance for traffic as it merges into fewer lanes.

Reference: US MUTCD editions

**PAVEMENT-WIDTH TRANSITION MARKINGS.** An older name for Lane Reduction Transition Markings which see.

Reference: US MUTCD 1948, 1961, Homburger 1977

**RESERVED LANE MARKINGS.** An uncertain term yet a plausible one for setting aside lanes for specific categories of vehicles. It has validity at least in an informal sense. It is possibly a simplifying of the following ECE 1995 term.

See also: ECE 1995, Part Iii-1st ed.



**ROAD MARKINGS FOR A LANE RESERVED FOR CERTAIN CATEGORIES OF VEHICLES.** These Markings from ECE 1995, denote lanes for a special category of motor vehicles. Solid or broken lines separate these lanes from general-purpose lanes. Words may be added when needed.  
Reference: ECE 1995

**TEMPORARY LANE MARKINGS.** Hawkins notes the addition of short-term Lane Markings for Work Zones in US MUTCD 1988.  
Reference: Hawkins, 11-92

**TRAFFIC LANE MARKINGS.** UN 1968 employs this term for Centerline and Lane Markings. The term suggests the category of Traffic Lane Markings by encompassing Centerline Markings even if not by name.  
Reference: UN 1968

#### (4) Other Longitudinal Markings

**CONTINUOUS LINES FOR "PARTICULAR SITUATIONS".** UN 1968 refers to Markings for Particular Situations which involve the use of Continuous Lines. Part E in these Studies includes Continuous Lines with reference to Particular Situations in the classification and other coverage.  
Reference: UN 1968, Part E

**GUIDE LINES FOR TURNING VEHICLES/TURN MARKINGS/TURNING MOVEMENT OF VEHICLES.** The first term, from ECAFE 1964, consists of broken lines marking left/right turns; arrows may be added. The curved lines delineate the path of turns and offer instructions on marking turns. US MUTCD 1948 and 1961 uses the term Turn Markings while UN GERSS 1952 includes Turning Movements of Vehicles. UN 1968 and ECE 1995 employ Guide Lines ... denoting lines indicating process for making left/right turns in nations where traffic is right/left handed.  
References: ECAFE 1964, US MUTCD 1948 and 1961, UN 1968, ECE 1995

**LANE LINES & RIGHT EDGE LINE PAVEMENT MARKINGS/  
CENTERLINES & LEFT EDGE LINE PAVEMENT MARKINGS/YELLOW**

CENTERLINE PAVEMENT MARKINGS/WHITE LANE PAVEMENT MARKINGS/LANE LINE PAVEMENT MARKINGS. MUTCD 1988 included Center Lines and Lane Lines while newer editions add Pavement Markings to these Lines and other Traffic Markings. Newer terms more frequently include color. See also: Lane Lines and Center Lines entries.  
References: US MUTCD 2000, 2003

LONGITUDINAL PAVEMENT MARKINGS. The first edition of this study omits Pavement reflecting older MUTCD practice. However, newer editions add Pavement to numerous terms.  
Reference: US MUTCD 2000 and 2003

MARKINGS FOR BICYCLE LANES. US MUTCD 2000 includes Longitudinal Lnes for Bicycles under this term.  
Reference: US MUTCD 2000

MARKING OF OBSTRUCTIONS [DUAL CATEGORY]. A term that has a primarily obstruction/hazard role though it can have a longitudinal character.  
Reference: UN 1968

MARKINGS AT PARTICULAR LOCATIONS. ECAFE 1964 employs this term to indicate passing/overtaking prohibitions. It consists of continuous singles lines and is similar to Marking for Particular Situations in UN 1968.  
References: ECAFE 1964, UN 1968

MARKINGS FOR PARTICULAR SITUATIONS. This term from UN 1968 and ECE 1995 is a possible sub-overarching term. Yet it appears to focus mostly on the single role of prohibition of overtaking (passing) due to limited visibility. It is similar to ECAFE's Markings at Particular Locations.  
References: UN 1968, ECE 1995

MARKING EXTENSIONS THROUGH INTERSECTIONS OR INTER-CHANGES/PAVEMENT MARKING EXTENSIONS THROUGH INTER-SECTIONS. US MUTCD 1971 employs the first term for intersections of complex design or limited visibility. Roadway Markings are extended into and

through intersections; they are to be broken, single, white lines. Some situations may require lines of greater emphasis. These are termed Channelizing Lines whose functions include turning movements. Homburger employs the first term. References: US MUTCD 1971, Homburger 1977

MARKINGS FOR OTHER CIRCULAR INTERSECTIONS. Terms for Markings applied to non-roundabout circular intersections (rotaries, traffic circles) and "Traffic Calming" situations. Reference: US MUTCD 2003

MARKINGS FOR ROUNDABOUT INTERSECTIONS. A term for marking complex and circular intersections known as roundabout intersections. Reference: US MUTCD 2003

NO-PASSING ZONE MARKINGS/NO-PASSING MARKINGS. Canada 1976 uses solid lines adjoining broken centerlines for marking a no-passing zone. US MUTCD practice is similar. The second term is from US MUTCD 1948. References: Canada 1976, US MUTCD editions, 1948

PAVED-SHOULDER MARKINGS. This term seemingly appears only in US MUTCD 1961. The Markings apparently were often coarse stone chips which denoted the shoulder through audible warning as well as color. Newer edges are marked by painted lines. There are also rumble strips in use but not through stone chips. Reference: US MUTCD 1961

PEDESTRIAN LINES. T-M Studies includes this alternate term for classifications. Reference: Part E and other T-M Studies

STREET CLEARANCE & TRANSIT VEHICLE GUIDE LINES. Canada 1976 uses this term to indicate the presence of streetcar overhangs thereby providing guidance to the operators and other motorists. Reference: Canada 1976

## b) Transverse Markings

### TRANSVERSE MARKINGS.

Classification #: 4341

Form of Aid: TCD Unlighted Aid

Operation: Lines, graphic symbols, alphanumeric symbols denote crosswalks, stoplines, parking spaces among other uses. Devices produced through paint, thermoplastics, raised pavement markers.

Comments: This term refers to that which is across, athwart. However, US MUTCD includes everything except longitudinal lines. An effort has been made in these studies to distinguish transverse from other forms.

References: US MUTCD editions

CROSS-WALK/CROSSWALK LINES/CROSSWALKS/CROSSING MARKING/PEDESTRIAN CROSSINGS. Various Crosswalk Marking terms have the same focus: to delineate pedestrian zones across intersections. The nature of these Markings can vary substantially. ECAFE 1964 employs "zebra" stripes for this purpose. UN GERSS 1952 stipulated solid transverse lines which outline the crossing; a geometric pattern can also be used. ECE 1995 and UN 1968 mark crossings with stripes. US MUTCD editions offer several possibilities: the basic pattern consists of solid white lines bordering the crossing. Diagonal lines can be added between solid lines. A second alternate permits a series of rectangular-shaped bars delineating the crosswalk. Canada 1976 uses solid white lines for crosswalks. Homburger 1977 refers to Crossing Markings. This is an unusual practice in that Crossings and Crosswalks rarely add Marking to the core term. Pedestrian Crossing is used in lieu of Crosswalk and Crosswalking Lines by ECE 1995 and UN 1968

References: ECAFE 1964, UN GERSS 1968, US MUTCD editions, Homburger 1977, ECE 1995, UN 1968

CYCLIST CROSSINGS. A term for Markings designating for bicycle crossings. US practice includes bicycle lanes extending through intersections though not crossings. UN and other systems do include such Markings. Cyclist Crossing Markings bear resemblance to Pedestrian Crossings though the two forms can be differentiated.

Reference: UN ECAFE 1964, UN ECE 1995, UN 1968

**INTERSECTION MARKINGS.** This term from Canada 1976 can be viewed as a sub-overarching term. It includes Crosswalk Lines and Stop Lines.

Reference: Canada 1976

**LINES INDICATING POINTS AT WHICH DRIVERS MUST GIVE WAY.**

This lengthy term displays one or two solid lines and indicates the point at which motorists must give way (Yield in Western Hemisphere) to intersecting traffic. A series of triangles can substitute for the solid lines.

References: UN 1968, ECE 1995

**OBLIQUE PARALLEL LINES.** Term designating areas not to be entered. The Lines are of variable design both oblique and longitudinal of an atypical design.

Reference: UN 1968

**RAILROAD CROSSING MARKINGS/RAILROAD CROSSING ADVANCE MARKINGS/RAILROAD-HIGHWAY GRADE CROSSING PAVEMENT MARKINGS/APPROACHES TO RAILROAD CROSSING MARKINGS/APPROACHES TO RAILWAY CROSSING MARKINGS/HIGHWAY-RAIL GRADE CROSSING PAVEMENT MARKINGS.** Many Markings for crossings are to be found in the Western Hemisphere. Canada 1976 displays a double white solid line in a diagonal configuration near the tracks. US MUTCD 1978 and 1988 includes a broad stripe near the track then two additional stripes at some distance from the track. The added stripes flank an "X" and, in turn, are flanked by a pair of "R"s. US MUTCD 1948 and 1961 displayed a double diagonal stripe near the track. Homburger 1977 includes two transverse lines near the track. There are seemingly no specific Level Crossing Markings in UN 1968.

References: Canada 1976, US MUTCD editions

**STOP LINES/STOP BARS/LIMIT LINES.** These Lines and Bars are the most common of all Transverse Markings; nearly all systems have some form of this Traffic Marking. The diversity of terms does not indicate a broad range of forms. The Stop Line displays a broad line, frequently white, at the approaches to an intersection. Homburger offers alternate terms (the last two named terms) which

are included here though not included in various systems.

References: UN ECE 1995, GERSS 1952 (first term); Homburger 1977 (second and third terms)

TRANSVERSE LINES AT CONTROLLED JUNCTIONS/TRANSVERSE LINES AT UNCONTROLLED JUNCTIONS. RORT frequently uses these terms for Stop Lines. RORT suggests a double broken line for uncontrolled intersections (intersections without either Signals or Stop/Halt Signs).

Reference: RORT 1965 (Research on Road Traffic, UK)

### c) Other Pavement & Curb Markings

ADVANCED SPEED HUMP MARKINGS. These markings give advance notification of speed humps or other designed alterations of the roadway (e.g., dips).

References: US MUTCD 2000, 2003

ARROW MARKINGS/LEGEND & SYMBOLS/WORD MARKINGS/WORD MESSAGES/WORD & SYMBOL MARKINGS/ARROWS. Arrow Markings in ECAFE 1964 indicate directions assigned to various lanes. UN 1968 employs the wording of ECAFE 1964. For Canada 1976 the word Legends has the meaning of Words. Recommended uses include school, slow, right/left lane, stop. Homburger 1977 employs Word Messages rather than Word Markings. Word Markings for ECAFE 1964 uses words for place names, route numbers, various brief messages including stop, bus, taxi; UN 1968 is similar to ECAFE 1964. Words and Symbol Markings is the preferred term for US MUTCD editions. Words are also symbols but only graphic symbols are so classified.

References: ECAFE 1964, UN 1968, Canada 1976, US MUTCD editions, Part E

APPROACH MARKINGS FOR OBSTRUCTIONS IN ROADWAY/MARKING OF OBSTRUCTIONS. These Markings are Pavement Markings and Obstruction Markings employed for warning and marking obstructions. They consist of Channelizing Lines in a nearly ellipse pattern accompanied by diagonal lines or chevrons surrounding the object in question. On non-divided highways this Marking is in yellow while on divided highways it is in white. It is found in US

MUTCD 1971 and newer editions. It is also listed in Obstruction Markings.  
References: US MUTCD editions

**BICYCLE DETECTOR MARKING.** This term denotes the optimal place for activation of a Signal by bicyclist.

Reference: US MUTCD 2003 Rev 1

**COLORED PAVEMENT.** This term can signify a TCD. US MUTCD 1971 regards such pavement as a TCD when employed for regulation and guidance. Colors employed for Color Pavement include red for Stop Sign Approaches; yellow for medians dividing traffic (in opposite directions); white for Shoulder Delineation, Channelizing Islands, Crosswalks. Red is included in 1971 but not in 2003 edition.

References: US MUTCD 1971, 2003

**CURB MARKINGS/CURB MARKINGS FOR PARKING RESTRICTIONS.**

These Markings can denote prohibition near stop signs, driveways, crosswalks among other uses in MUTCD 2003. ECAFE 1964 uses Curb Markings for parking restrictions and also to improve visibility. This form displays contrasting checks; the colors are not given in ECAFE 1964. Homburger 1977 notes that Curb Markings are to be yellow in color for parking restrictions, prohibitions. That source also outlines the color code of California for Curb Markings: Red for stopping or standing prohibited; Yellow for commercial loading zones; White for passenger loading zones. Green for brief parking; Blue for handicapped. This is a more comprehensive code for Curb Markings than in other sources. See Also: Curb Markings for Delineation.

References: ECAFE 1964, US MUTCD 2003, Homburger 1977

**DIRECTIONAL MARKINGS.** An apparent historical term from US MUTCD 1948. These Markings consisted of Route Numbers painted on the pavement. The practice is no longer followed though ECAFE 1964, and UN 1968 indicate that similar practices are approved for use.

References: US MUTCD 1948, ECAFE 1964, UN 1968

**DYNAMIC ENVELOPE DELINEATION MARKINGS/DYNAMIC**

ENVELOPE MARKINGS/DYNAMIC ENVELOPE PAVEMENT MARKINGS/  
TRAIN DYNAMIC ENVELOPE PAVEMENT MARKINGS. The term Dynamic  
Envelope Delineation refers to the space required for train operations and the  
border that delineates that space. Markings denote edges of that envelope.  
References: US MUTCD 2000, 2003

EXIT & ENTRANCE INTERCHANGE RAMP MARKINGS. These Markings  
are from US MUTCD 1961 and newer editions. They constitute a form of  
Channelizing Line. The entrance form displays a wide white line which aids  
merging of traffic entering a freeway with through traffic. The exit form displays  
double white lines with crosshatching delineating ramp from the main stem of a  
freeway  
References: US MUTCD 1961

INTERSECTION PAVEMENT MARKINGS. A term that suggests a general-use  
term though the specific reference is for bicycle Pavement Markings.  
Reference: US MUTCD 2000, 2003

MEDIAN ISLANDS FORMED BY PAVEMENT MARKINGS. This term is  
found in US MUTCD 1971 and 1978. It consists of double yellow lines that  
create median islands as a divider for traffic moving in opposite directions.  
Crosshatching can be added to the lines.  
References: US MUTCD 1971, 1978

NO-PASSING PAVEMENT MARKINGS. A somewhat similar term for No-  
Passing Zone Markings. Pavement added in US MUTCD 2000, 2003 for a  
number of Marking forms.  
Reference: US MUTCD 2000, 2003

PARKING MARKINGS/PARKING SPACE MARKINGS/MARKING OF  
PARKING SPACE LIMITS/PARKING SPACE LINES. US MUTCD 1971 has  
several forms of the first named term. These forms include several designs:  
complete outlining of the space; outside lines marked off by short Transverse  
Markings; "plus" Markings denoting side, front, back dimensions. US MUTCD  
1961 speaks of Lines rather than Markings. Canada 1976 uses the term Parking



**Markings.** These forms include: crosses at corner of spaces, front and back lines, small painted indicators on curbs. ECAFE 1964 refers to Limits and has two forms: right angle parking with side lines and oblique space lines; parallel parking has front and back lines and short side lines.

Reference: US MUTCD 1961, 1971, Canada 1976, ECAFE 1964

**PREFERENTIAL LANE WORD & SYMBOL MARKINGS.** These are Markings denoting a lane for a specific class(es) of vehicles. Markings can be in use for part or full time use. Classes of vehicles include buses, light transit or bicycles.

Reference: US MUTCD 2003

**PREFERENTIAL LANE LONGITUDINAL MARKINGS FOR MOTOR VEHICLES.** This term is part of the general preferential term though the references is only to Motor Vehicles.

Reference: US MUTCD

**REFLECTIVE PAVEMENT LEGENDS.** A historical term (or an informal descriptive term) from Sessions 1961 that refers to word and graphic symbols painted, embossed on pavement. It can be considered as part of the Arrow, Word and Symbol entry but listed separately because of the distinctive term.

Reference: Sessions 1961

**SPEED HUMP MARKINGS.** A term for Markings that denotes location of speed humps.

Reference: US MUTCD 2003

**SPEED MEASUREMENT MARKINGS.** A Transverse Marking that aids enforcement of speed limits.

Reference: US MUTCD

**STANDING & PARKING REGULATIONS MARKINGS.** UN 1968 permits restrictions on curbs (kerbs) or carriageway to curbs, carriageways by the use of Markings. This is also included by ECE 1995.

Reference: UN 1968, UN ECE 1995

**STOP & YIELD LINES MARKINGS.** An overarching term for two forms of Markings.

Reference: US MUTCD 2003

**YIELD LINES.** Term for a row of isosceles triangle that denote the point at which vehicles are to yield to a primary flow of traffic.

References: US MUTCD 2000, 20003

#### d) Physical Pavement Marking Forms

**GENERAL NOTE.** Traffic Markings virtually fuse physical and morphological dimensions of the Marking. The first edition of the Database focussed on the morphological dimension of Traffic Markings and lacked a separate segment for the physical underpinings of Traffic Markings. A scattering of physical forms were included but they were incomplete and not separated from morphology. This new segment provides basic terms for the physical part of Traffic Markings. OECD 1975 and RDPHB 1981 were omitted from the first edition and they are major sources for physical information. These Markings which come in many forms can be divided into Raised and Surface Marking sections. A welter of terms are employed and frequently the terms overlap or are interchangeable.

##### 1) Raised Pavement Markers

**RAISED PAVEMENT MARKERS.** This term refers to manufactured units affixed to the pavement and of a raised nature. They include reflectorized and non-reflectorized forms.

References: US MUTCD 2003, OECD 1975

**BI-CONVEX REFLECTORS.** This form of Reflector uses a refraction process employing a bi-convex reflector which takes the form of a two-ended cylinder.

Reference: OECD 1975

**CATS-EYES/CATS EYE-RETRO REFLECTERS.** The second term makes explicit the nature of the Cats Eye Marker. Cats Eyes are also considered under Reflector Studs

Reference: UK MOT. OECD 1975

**CORNER-CUBE REFLECTORS.** Term refers to a Reflector comprised of many tiny reflectors of a three-sided design which provides a high level of refraction. These Reflectors are extensively used and of many designs.

References: OECD 1975

**LENS-TYPE REFLECTORS.** This term can suggest a general term though it is specific for OECD. It refers to a form of reflector with a lens of concentric design. See Also: Bi-Convex Reflector.

Reflector: OECD 1975

**LUMINOUS MARKS.** The meaning of this term from OECD is not fully clear. It can be viewed as independent of Retro-Reflective Marks or is interchangeable with that term.

References: OECD 1975

**NON-REFLECTIVE MARKERS.** This form of Marker lacks a reflective capacity. They are, however, presumably of a raised character.

References: OECD 1975

**NON-RETRO-REFLECTIVE MARKERS/NON-RETRO REFLECTIVE MARKERS/NON-RETRO-REFLECTIVE CERAMIC MARKERS/NON-RETRO-REFLECTIVE BUTTONS/NON-RETRO-REFLECTIVE RAISED PAVEMENT MARKERS/NONRETRO-REFLECTIVE BUTTONS.** These terms refer to similar Markings. Though differences in terms also indicates points of difference including presumably in materials and design.

Reference: OECD 1975

**PROTUDING MARKERS.** There is a single reference to this term. It is possibly an experimental Marker or one undergoing development.

Reference: OECD

**RAISED MARKINGS/RAISED HORIZONTAL MARKINGS.** These terms are of a general nature. Few details available.

Reference: OECD

**RAISED PAVEMENT MARKERS (RPMs).** Many Pavement Markings are of a paint form or of thermoplastic materials. However, some Pavement Markings have the form of Raised Pavement Markers. They are employed in more hazardous situations (exit ramps, approaches to bridges, curves) and either stand alone or are associated with painted lines. White and yellow forms have the meanings assigned to painted lines. Red Markers have the meaning of Wrong Way Signs. Blue denotes fire hydrants. Some forms are reflectorized. There are a variety of terms and variations in use:

**RAISED REFLECTIVE PAVEMENT MARKERS/RAISED REFLECTIVE MARKERS/REFLECTIVE PAVEMENT MARKINGS/MARKERS**

Other terms include: **SNOWPLOWABLE REFLECTIVE MARKERS/RECESSED REFLECTIVE MARKER.** These terms refer to forms that can either sustain scraping action, or are recessed and thereby immune to movements of machinery.

References: TCDHB 1983, RDPHB 1981, OECD 1975

**RAISED MARKING SYSTEM.** OECD includes this term without definition. Seemingly it refers to a group of Markings for a given area or road system.  
Reference: OECD

**RAISED RETRO-REFLECTIVE MARKERS.** A term that can serve as an overarching term for many Traffic Markings which are both raised and reflective.  
Reference: OECD

**REFLECTOR STUDS/REFLECTING ROAD STUDS/CATSEYES.** These terms are UK in origin. Catseyes were applied to reflector objects in the 1920s during the developments of the Marker. Noble 1946 makes mention of Reflector Studs including red forms.  
Reference: Noble 1946, HDTS, UK 1950

**REFLECTING BUTTON.** Comments for Retro-Reflective Buttons may apply

here.

Reference: OECD

**REFLECTIVE MARKERS.** A general term for all forms of Markers with reflective capacity.

References: OECD

**RETRO-REFLECTION.** This term refers to a process often at work in Reflective Markers and which is incorporated into the nature of many Markers. The reflective process causes transmitted light to be returned to near the point of transmission.

Reference: OECD 1975

**RETRO-REFLECTORIZED BUTTONS.** "Buttons" often indicate a non-reflectORIZED Marking. This OECD term adds reflectORIZATION to that word. It is unclear if the term is interchangeable with Retro-Reflectors or is a separate form.

Reference: OECD 1975

**RETRO-REFLECTIVE MARKERS.** Term for Raised Markers involving the use of refraction (a lens process including bi-convex reflectors) or reflection (often a corner-cube ).

References: OECD 1975

**RETRO-REFLECTIVE MARKS.** This may be an interchangeable term for Retro-Reflective Markers. Though differences between Mark and Marker may be present.

References: OECD 1975

**REFLEX REFLECTORS.** A UN term that seemingly corresponds to Raised Reflective Markers and similar terms.

Reference: UN 1968

**RUMBLE STRIPS/RUMBLE STRIPES/AUDIBLE ROADWAY**

**DELINEATION.** RDPHB includes Rumble Stripes as a possible RPM use; no other surveyed source includes it. The third term is from a source title in RDPHB.

Reference: RDPHB 1981

SELF-LUMINOUS REFLECTORS. This may refer to an experimental Marking or one under development. Electricity or even radioactivity was to be employed as a power source.

Reference: OECD 1975

STUDS. Term for a variety of Raised Markers which may be reflective in character. Studs are often known as Catseyes.

References: UN 1968, MOT HADTS 1969.

## 2) Traffic Marking Physical Terms - Morphological/Physical

GENERAL NOTE. Many of these terms are considered under a morphological heading. Since the physical dimension is included in the terms they are listed in a Physical Terms category if only briefly.

AMBER MARKERS/GREEN MARKERS/RED MARKERS. OECD includes the colors and code in a discussion of Retro-Reflective Raised Markings in UK.

Reference: OECD

BI-DIRECTIONAL RED & WHITE RETRO-REFLECTIVE MARKERS. Colors of the reflector are included in the name. The term may require a morphological entry though meanings are not ascribed to the colors red and white in this term.

Reference: OECD 1975

BI-DIRECTIONAL EDGELINE MARKERS. Morphology and Physical dimensions are included in the term. Edgeline Markers in a morphological entry explain the use of the Marker.

Reference: OECD 1975

CATS EYE CENTERLINE MARKING. Centerline Markings are included in this study. This term includes the physical aspect.

Reference: OECD 1975

CHANNELIZATION MARKERS. A largely morphological term though it denotes a physical apparatus as well.

Reference: OECD 1975

EDGELINE RAISED MARKERS. A term combining function with physical element.

Reference: OECD 1975

PAINTED LINES. A physical term though line can denote a morphological term or one tending in that direction.

Reference: OECD 1975

RAISED REFLECTIVE LANE MARKERS. A term combining physical and morphology dimensions.

Reference: OECD 1975

### 3) Other Horizontal Markings

CERAMIC MARKER. A Raised Marker without reflective materials.

Reference: OECD 1975

COLLIMATING SYSTEM. This seemingly refers to glass beads applied to Marking material.

Reference: OECD 1975

COLOURED CEMENT CONCRETE MARKING. A Marking in the shape of stripes in white or yellow and installed at road edges.

Reference: OECD 1975

ELECTRICALLY POWERED EMISSIVE MARKERS. An experimental area of research mentioned briefly in OECD.

Reference: OECD 1975

EXPENDABLE MARKERS. Term for low-cost Marker undergoing evaluation in the US in 1970s.

Reference: OECD 1975

FORMED-IN-PLACE MARKERS. Term for Marking undergoing in 1970s.  
Reference: OECD 1975

HOT-APPLIED SURFACE MARKING. Term refers to a form of thermoplastics employed for Traffic Markings.  
Reference: OECD 1975

MAGNETIC MARKERS. Term for Marker undergoing studies in 1970s.  
Reference: OECD 1975

PAINT MARKINGS. A general term for all Markings employing paint.  
Reference: OECD 1975

PAVEMENT SURFACE MARKINGS. A general term for all Markings applied to pavement surface. Are Raised Pavement Markers included or does this term refer only to Markings literally on the surface?  
Reference: OECD 1975

RADIOACTIVE EMISSIVE MARKERS. Term for an experimental Marker mentioned in OECD. Was it ever in actual production?  
Reference: OECD 1975

SNAP-OVER MARKERS. A developmental or experimental Marker mentioned briefly in OECD.  
Reference: OECD 1975

SURFACE DRESSING MARKINGS. This term is possibly interchangeable with Pavement Surface Markings  
Reference: OECD 1975

TRAFFIC PAINT MARKINGS. OECD distinguishes paint forms from thermoplastics and other materials with this term.  
Reference: OECD 1975



## 5B3 Hazard & Delineation Markings

### a) Hazard/Obstruction Markings

General Note. While this form of TCD is found in many systems and nations it is more developed in North America. These terms can be confusing. For the US the general heading is Object Markings while the type of TCD within Object Marking is Object Marker. For Canada the general heading is Hazard Markings and the specific type is Hazard Marker. At one time US Object Markers were known as Hazard Markers (see Reflective Markers).

**APPROACH MARKINGS FOR OBSTRUCTIONS.** Term for Markings employed for guiding vehicles away from obstructions through use of lanes.  
Reference: US MUTCD 2000, 2003

**HAZARD MARKERS.** Canada 1976 divides this category into two groups: Markings on Object Adjacent to the Pavement and Markings on Objects Within the Roadway. The first group of objects includes bridge piers and abutments, and bridge ends and other fixed hazards. The second group includes safety zones, loading islands, median dividers, bridge piers and abutments, structures with restricted overhead clearances. Approach Pavement Markings for Obstructions Within the Roadway are included with Pavement Markings. Hazard Markers are a standardized unit displaying black/yellow diagonal stripes in the shape of rectangles with vertical emphasis and mounted on a metal post.  
Reference: Canada 1976

**HIGH-LEVEL WARNING DEVICES (FLAG TREE).** Term refers to metal framework from which several flags are attached.  
Reference: US MUTCD 1978, 2003

**CLEARANCE MARKERS.** This term supplied by Homburger 1977 refers to a Marker in California practice. It is of rectangular shape and of two sizes. The smaller has a white ground and three yellow reflectors. It is somewhat similar to the US Type 1 though larger. The second form is similar to Type 3 except that

stripes are black and white instead of black and yellow. Canada 1976 has similar Markings for "low clearance structures."

Reference: Homburger 1977, Canada 1976

**MARKERS FOR OBJECTS IN THE ROADWAY/MARKERS ADJACENT TO THE ROADWAY.** Older MUTCD editions spoke of objects in or adjacent to the roadway followed by description of Marker. Markers are now added to Objects.

References: US MUTCD 2000 and 2003.

**MARKINGS FOR OBJECTS IN THE ROADWAY/MARKINGS ADJACENT TO THE ROADWAY.** FHA 1996 uses Markings instead of Markers as found in MUTCD 2000, 2003.

Reference: FHA 1996

**MARKING OF OBSTRUCTIONS.** This Marking from UN 1968 consists of a panel of diagonal stripes that identify obstructions. The stripes are sharply contrasting but the colors employed are not given. Black/white or Black/yellow patterns are most likely. ECE 1995 follows the same pattern.

References: ECE 1995, UN 1968

**OBJECT MARKERS.** General Comments. This is the primary term for the US in marking various forms of obstructions. There are three forms in use:

Type 1 consists of yellow reflective discs on a yellow diamond-shaped ground, or yellow discs on black diamond-shaped ground, or simply, a yellow diamond-shaped ground coated with reflective material. Homburger 1977 has a similar Marker though that version can have either yellow or white reflectors.

Type 2 consists of yellow reflective discs on white ground, 6 by 12 inches (vertical dimension), yellow reflective material on metal plate in the same configuration, and yellow reflective material of the same dimensions but horizontal.

Type 3 consists of 12 by 36 inches panels with black/yellow diagonal stripes. There are two forms: a left upward slant form and right upward slant form. The foci of these Object Markers are objects in the roadway, or objects adjacent to the roadway. Stripes painted on larger surfaces such as bridge abutments are also included. Object Markers are within the subdivision of Object

Markings.

A related TCD entity, though separate from Object Markers, is the End of Road Marker which see.

Classification #: 4353 [Object Markings]

Form of Aid: TCD Unlighted Aid

Operation: Reflectorized marking of varying shapes denote obstructions on or near roadway.

Comments: A term both physical and morphological. Its overwhelming use refers to hazards, obstructions.

Reference: Homburger 1977, US MUTCD editions

**OBJECT MARKERS ON SHARED-USED PATH.** Term denotes objects (fixed) adjacent to path. Markers are what US MUTCD refers to as Type 1, 2, or 3 Object Markers.

Reference: US MUTCD 2003

**OBSTRUCTION PAVEMENT MARKINGS/PAVEMENT MARKINGS FOR OBSTRUCTIONS.** These terms give appearance of general use terms but specific reference to Obstruction Markings for Bicycles.

Reference: US MUTCD 200, MUTCD 2003

**END OF ROAD MARKER/END-OF-ROADWAY MARKERS/END-OF-ROADWAY MARKINGS.** The first term from US MUTCD 1978 and 1988 has three versions: red discs on red diamond; red discs on black diamond; and red reflective diamond. The End of Road Marker is within the Object Markings category but apart from Object Markers. MUTCD 2003 employs Roadway and the 2000 edition has Markings not Marker.

References: US MUTCD 1978, 1988

**REFLECTIVE MARKERS.** This US MUTCD term can be seen as a sub-over-arching term; it includes Hazard Markers and Delineators. US Hazard Markers became Object Markers in newer editions of MUTCD.

References: US MUTCD 1948, 1961

## b) Delineators

**General Notes.** Delineation can refer to any objects and practices that supply guidance and tracking data as noted earlier (RDPHB 1981). This category focusses on those objects usually found at edges of road that are usually mounted on short metal posts. Some terms refer to the function of delineation though that does not negate the physical aspects; other terms refer more to the physical components. There is no hard and fast line between “physiological” and “morphological” dimensions. Delineators may consist of small reflective discs or units of reflective material attached to metal posts.

**Messages.** Color patterns for US MUTCD editions are from Pavement Edge Markings. Truck escape ramps are marked by red Delineators; red Delineators can also be employed as Wrong Way indicators. US MUTCD editions also refer to Raised Pavement Markers. These are part of the Pavement Markings category, and employed on curves and related situations. Canada 1976 employs white or yellow Delineators according to Pavements Edge Lines norms.

**References:** US MUTCD editions, Canada 1976

Delineation terms are diverse though referring to a relatively restricted role. They include:

DELINEATION DEVICES/DELINEATORS/ROAD DELINEATORS/  
ROAD-EDGE DELINEATORS, POST MOUNTED MARKERS/POST-  
MOUNTED DELINEATORS/ROAD EDGE DELINEATORS MARKERS/  
SHOULDER DELINEATION MARKERS/ROADSIDE DELINEATORS/  
ROAD-DELINEATION MARKERS/POST DELINEATORS/ROAD-  
SIDE DELINEATORS/ROADWAY DELINEATORS.

**Classification #:** 4350

**Form of Aid:** TCD Unlighted Aid

**Operation:** Reflective materials affixed to low-level posts mark edges of roads.

**Comments:** Delineators can be confused with other forms of Delineation and the general topic of Delineation.

**References:** MUTCD 1961, 1971, 1978, RDPHB 1981, TCDHB 1983,  
JHK/FHW 1981, Canada 1981

DELINEATORS-CURB/DELINEATORS. Terms appearing in T-M Studies.  
Reference: Part E

GUIDE MARKERS/GUIDE POSTS. The first term serves as a synonym for Delineators in Homburger 1977. RDPHB includes the second term in a source title.

References: Homburger 1977, RDPHB 1983

BIDIRECTIONAL REFLECTIVE DELINEATORS/MONODIRECTIONAL MARKERS. Canada 1976 permits two-sided Delineators on undivided roads. Monodirectional forms are used on divided roads.

References: Canada 1976

CURB MARKINGS FOR ROADWAY DELINEATION. This term is a Pavement and Curb Marking entity; it is included since it is part of delineation. The location is different but the material and focus is the same. This form is applied to island curbs in traffic and serves to direct traffic around an obstruction. Messages employ white reflectorized material if traffic can travel either side of the objection; yellow if to the right only.

Reference: US MUTCD 1988

#### c) Barricades & Channelizing Devices

General Note. This section often refers to North American practice. International systems give little -- if any -- attention to these entities; only selective national publications are available outside of North America. This coverage at least suggests term and entries with possible significance outside North America.

CHANNELIZING DEVICES. General Comment. This segment, along with Barricades, was part of the Construction & Maintenance component for US MUTCD until 1978 when a new segment was added to regular Traffic Markings. In Canada these Markings are in the Temporary Signs & Devices category.

Classification #: 4351

Form of Aid: Unlighted TCD Aid

Operation: Devices include Traffic Cones, Tubular Markers for temporary use. Standard colors are employed.

Comments: Objects are of a non-anchored form and easily moved in contrast to nearly all other TCD save many Barricades.

Reference: US MUTCD 1978

CHANNELIZING DEVICES-TRAFFIC CONES. Term appears in variant classification. The general term is made specific by inclusion of specific device.

Reference: Part E

TRAFFIC CONES/TUBULAR MARKERS/CONES/VERTICAL PANELS/PORTABLE FLASHER SUPPORT/DRUMS. These Safety Aids are orange in color. Other forms include: Vertical Panel (orange and white diagonal stripes); Portable Flasher Support that consists of a barricade board or plank (white and orange stripes on triangular supports). Drums consisting of oil-drums were also employed. They displayed orange/white horizontal stripes or black/white stripes. Canadian drums were mostly orange in color (limited white stripes were permitted).

References: US MUTCD 1978

BARRICADES. US MUTCD has three forms:

Type I. This form is a portable unit with a single, short rail, and a light weight "A" frame support. Color patterns for the rail are orange/white or black/white patterns for Construction & Maintenance. The Non-C & M pattern is in a red/white pattern. All three Types have the same color pattern configuration.

Type II. This form has a single, long rail on a heavy "A" frame structure.

Type III. This form is often of a permanent nature. It has three rails which are fastened to posts or skids.

US MUTCD 1988 does not specify support systems for Barricades in contrast to the 1978 edition.

Classification #: 4350

Form of Aid: Unlighted TCD

Operation: Rails painted in established two-color patterns. Non-C & M forms denoted by different pattern. Reflective materials may be added.

Comments: Barricades are at variance with the general low-level character of Devices in Traffic Marking segment of TCD

References: US MUTCD 1978, 1988

Canada has two versions:

HEAVY BARRICADES and LIGHT BARRICADES. These forms are very similar to the Type III three-rail permanent US version and the Type I light weight single rail type respectively. They display black/orange color patterns.

Reference: Canada 1976

BARRICADES-PORTABLE/BARRICADES-PERMANENT. Terms in variant classification accompanied by specific type.

Reference: Part E

APPENDIX I:  
COMPARATIVE SURVEY OF SIGNS  
(Adapted from Part E)

i Introduction

The Database is concerned with the individual T-M phenomenon. It is not primarily concerned with the systems that spawn the individual T-M form. Yet a T-M system -- in this case Traffic Signs -- can not be ignored since the Signs are an integral part of a given system. Therefore this Appendix outlines the various systems that include Signs. The basic Sign categories (Warning, Regulatory, Informative) are also integral to the Signs and the systems are presented in that format.

Other topics to be discussed in this Appendix including: 1) What systems are included and what are omitted? 2) The various systems reflect two, and perhaps three "strains" of approaches to Signs; the strains need to be reviewed. 3) The three basic categories of Signs have alternate names in some systems. In addition, there are also sub-categories present in some systems that require inclusion.

Appendix I also includes a review of general terms for Signs. Appendix II takes up general terms for the full spectrum of Traffic Control Devices.

ii Traffic Sign Systems

A four-fold schema can determine which systems are to be included in the Appendix

- a) regional systems
- b) systems transcending a region
- c) global systems
- d) national systems transcending a nation.

Regional systems include IAMM 1967, CASATC 1950, ECAFE 1964 is similar to UN GERSS 1952 and therefore not included. ECAFE 1964 remains a source for the individual entities.

UN 1949 may appear global but its sphere of influence was in Europe and selected non-European states. Therefore, it seems reasonable to qualify it as a "system transcending a region."

UN 1968 is global in scope and quite possibly UN GERSS 1952 can be so regarded.



US MUTCD 1961 is an example of a national system which very much transcends a single nation. UK 1950 (its development extended over the years 1903-1950 but reached its final form in about 1950) also has had influence beyond one nation. For this study it is termed OBS 1950 (Old British System) to distinguish it from the newer British system of the 1960s. Much of the UK work took place in 1944 but promulgation did not take place until 1950. UK MOT 1950 prepared a summary history and chart of UK efforts in about 1950. Noble 1946 has considerable coverage of the matter including the 1944 work. Canada's TCD system is important to T-M especially in regard to classification schema and various Sign forms. Yet it does not appear to be a system notably apart from Western Hemisphere practice (Admittedly, that is a view that can be contested). Various provinces worked out practices that incorporated US MUTCD ideas before the Canadian system was created. The Canadian system is not included in the Chart though it is a major influence on the Database.

### iii Traffic Signs Approaches

There have been two prominent strains or "streams" of Sign systems: The "European system" and the "American system". The first

system began on a limited basis in 1909, expanded in 1926, 1928, and 1931. Further work was undertaken in 1938 and 1939, but remained unfinished because of World War II. All but the 1909 effort were under the auspices of the League of Nations. Since the quaternity of 1909-26-28-31 underlays the recognizable "European system" of later years it can be often represented by a combined column in the chart. 1938-1939 represents a further stage in development and requires a separate column. The UN 1949 is an extension and expansion of older efforts and continues the European tradition rather than representing a global effort. It too has a column in the chart.

The "American system", a less cohesive and comprehensive endeavor, has influenced many Western Hemisphere systems as well as the 1952 UN GERSS draft. This system refers primarily to US TCD developments. The 1961 edition of MUTCD is included in the chart because it was in use when UN 1968 took place. The 1948 edition might have been included since it is a factor in UN GERSS 1952. Space limitations as well as a shared approach of 1948 and 1961 reduces the need to include 1948.

The 1984 edition of Part E omitted IAMM 1967 in large part because of space considerations. Yet IAMM, even though sharing the American system approach, should be included since IAMM was also influenced by UN GERSS 1952. This created a hybrid system combining the US approach with many graphic symbols (in contrast to mostly word symbols in US 1961). IAMM 1967 is now included in the chart.

UN GERSS 1952 represents a milestone in TCD systems since it brought together notable features of major previous approaches. While it never received international approval it has been employed by several regional and national agencies and has influenced later regional and global efforts including IAMM 1967, ECAFE 1964, and UN 1968. It is included in the chart.

There is a third approach though of a more limited scope: The double panel signs of UK (termed the Old British System (OBS) in T-M studies). This system displays the appropriate symbol accompanied by a rectangular-shaped panel with graphic and/or word symbols. The system evolved over the years 1903-1950 in UK.

The upper sign generally followed the European system while the lower Sign was more of a English contribution though graphic symbols followed European designs. CASATC 1950 followed the British pattern; both UN GERSS 1952 and UN 1968 included it though UN 1968 to a lesser degree. LN 1928 is substantially patterned after the UK approach. UN 1968 gives primary attention to two systems but permits usages similar to OBS. UN GERSS 1952 presents a three-fold Sign System approach: European, American, and CASATC/UK.

CASATC 1950 was included in the original chart. OBS 1950 was not included in the 1984 edition of Part E. It is included in this study.

#### iv Traffic Sign Categories

The Sign categories of Warning, Regulatory, and Informative not infrequently have alternate titles. In addition, there are a variety of sub-category terms in use.

Warning Signs: European agreements from 1909 to 1949 employed the term Danger Signs: UN 1968 compromised with Danger Warning Signs. US practice and IAMM employ Warning Signs; ECAFE also preferred that term. Both CASATC and GERSS adopted the Danger Warning Signs. Some UK sources employ a curious hybrid: Warning and Informative Signs though the former seems to dominate that category; other UK sources employ Warning Signs.

The term Informative Signs is used in the UN 1949, CASATC 1950, and UN GERSS 1950 documents. Older documents were less likely to include this category; the LN 1931 documents included a cumbersome phrase, "Signs Giving Indications Only" for that category. The LN 1939 effort referred to Indication Signs. UN 1968 split this form of Sign into Informative Signs Other Than Parking, and Signs Providing Useful Information on Parking. US and IAMM spoke of Guide Signs instead.

Regulatory Signs includes two basic phrases: prohibitions (acts not to be performed), and mandatory (acts that must be performed). The two basic segments lead to a large variety of terms and sub-terms. LN 1931 included a general category of Signs Giving Definite Information

divided into Signs Prohibiting Passage, and Signs Indicating and Obligation. LN 1939 speaks of Prohibitory or Mandatory since each form constitutes a subdivision of that category. UN 1949 provided a general category of Signs Giving Definite Instructions divided into Prohibitory and Mandatory. CASATC 1950 supplied a unified heading of Prohibition and Mandatory.

US, GERSS and IAMM offer a single category of Regulatory Signs. UN 1968 offers a more complex range of terminology: Regulatory Signs Other than Standing and Parking divided into three groups: Prohibitive or Restrictive, Mandatory, and Priority. There is also a special category of Standing and Parking Signs.

Abbreviations for the Chart

W/WO = With, Without  
L-C = Level-Crossing  
L = Left  
R = Right  
DRL = Double Bend, Right then Left  
C-LC = Center & Left of Center  
C-RC = Center & Right of Center  
L & R-C = Left & Right of Center  
LC/C = Left of Center & Center  
T = T-shaped Junction or Intersection  
Y = Y-shaped Junction or Intersection  
U = U-turns  
MV = Motor Vehicles  
MC = Motor Cycles

v The Chart

Warning Signs

1909 [pre-LN]/1926/1931 LN  
Uneven Road 09/28/31  
Gutter Road 26  
Sharp Turn 09/26/28/31  
Bend 26  
Cross-Road 09/26/28/31

Level Crossing 09  
LC w/ Barrier 26  
LC Guarded 31/Guarded L-C 28  
LC Unguarded 26/31/Unguarded L-C 28  
Alternative 31/Alternative General Danger 28  
Hollow 26  
Other Dangers 31  
Concerning Right of Way  
1939 LN  
Uneven Road  
Sharp Turn  
Single Bend to L, R  
Double Bend to L, R  
Road End in Junction w/ Another Road  
Road in Which Another Road Ends at a Junction  
Level-Crossing w/wo Gates  
Approach to a School Entrance  
Other Dangers  
General Danger  
Approach to a Major Road  
Cross-Road  
1949 UN  
Uneven Road

Dangerous Bend(s) General, Right, Left,  
Double Bend to L, R  
Road Intersection  
Level-Crossing w/wo Gates  
L-C in the Immediate Vicinity  
Dangerous Hill  
Carriagewa Narrows  
Opening Bridge  
Road Works  
Slippery Carriageway  
Pedestrian Crossing  
Children  
Beware of Animals  
Intersection w/ a Non-Priority Road  
Other Dangers  
Priority Road Ahead  
Cross-Road

1950 Old British System  
Bend  
Level Crossing  
Two Way Traffic  
Round-About  
Crossing No Gates  
Hill  
Low Bridge Headroom  
Hump Bridge

Road Junction  
Narrow Bridge (or Road Narrows)  
Double Bend  
Children  
School  
Signals Ahead  
Cross Road

#### 1950 CASATC

Crossroads  
Gate or Level Crossing Barrier  
Cross-Drain or Dip  
Gate & Motor Gate, L, R  
Motor Gate  
Unguarded Level-Crossing  
Level-Crossing Warning Cross  
Level-Crossing Stop  
Dangerous Curve  
Dangerous Junction  
Narrow Bridge  
Dangerous Fork, Center/LC, C/RC/LC/RC  
Danger  
Dangerous T-Junction  
Dangerous Sharp Turn, R  
Dangerous Steep Descent to L, R  
Road Narrows Dangerously  
Traffic Circle, L, R  
Dangerous Reverse Bend Winding to L, R

Children  
Overhead Bridge

1952 GERSS

Dangerous Curves, Sharp, R, L, Double  
Road Intersections, Cross Road, L, R, T, Y  
Intersections with a Minor Road, or Non-  
Priority Road, Cross Road, L, R, T, Y  
Stop Sign Ahead  
Priority Road Ahead  
Uneven Road  
Bump  
Dip  
Rough Road  
Dangerous Hill: Dangerous Ascent,  
Dangerous Descent  
Road Narrows  
Narrow Bridge  
Opening Bridge  
Road Works  
Slippery Road  
Pedestrian Crossing  
Children  
Beware of Animals  
Low Clearance  
Narrow Clearance  
Level-Crossing  
Level-Crossing Guarded by Gates

1961 US MUTCD

Turn  
Curve  
Reverse Turn  
Reverse Curve  
Winding Road  
Large Arrow, L, R, Double  
Cross Road  
Side Road, L or R: 45 degrees or 90 degrees  
T Symbol  
Y Symbol  
Stop Ahead  
Yield Ahead  
Signal Ahead  
Merging Traffic  
Pavement-Width Transition  
Road Narrows  
Narrow Road  
One-lane Bridge  
Divided Highway  
Divided Highway Ends  
Two-way Traffic  
Hill  
Bump  
Dip  
Pavement Ends

Soft Shoulder  
Slippery When Wet  
School  
School Crossing  
Railroad Advance Warning  
Railroad Crossbuck  
Crossing Signs: Cross-Walk, Deer, Trucks,  
Pedestrian, Cattle  
Double Arrow  
Low Clearance  
Advisory Speed  
Advisory Exit  
Traffic Signal Speed

1967 IAMM

Turn, L, R  
Curve, L, R  
Winding Road  
Reverse Turns  
Reverse Curves  
Cross Roads  
Side Road  
T  
Y  
Successive Tees  
Traffic Circle  
Merging Traffic

Signal Ahead  
Stop Ahead  
Street Car Crossing  
Rough Road  
Bump  
Dip  
Hill  
Road Narrows  
Narrow Bridge  
Drawbridge  
Road Repairs Ahead  
Temporary Two Way Ahead  
Directional Arrow  
Bi-Directional Arrow  
Falling Rocks  
Slippery When Wet  
Loose Gravel  
Cyclists  
Farm Machinery  
Pedestrian Crossing  
School Zone  
Children  
Cattle Crossing  
Deer Crossing  
Low Clearance  
Limited Width  
Unprotected Railroad-Crossing

Protected Railroad-Crossing  
Railroad Crossbuck  
Divided Highway  
End of Divided Highway  
Airplane  
Cross-Wind

1968 United Nations  
Dangerous Bends, L, R, DBLR, DBRL  
Dangerous Descent  
Steep Ascent  
Carriageway Narrows  
Swing Bridge  
Road Leads onto Quay or River Bank  
Uneven Road  
Slippery Road  
Loose Gravel  
Falling Rocks  
Pedestrian Crossing  
Children  
Cyclists Entering or Crossing  
Cattle or Other Animal Crossing:  
    Wild, Domestic  
Road Works  
Light Signals  
Airfield  
Cross-Wind

Two-Way Traffic  
Other Dangers  
Cross-Roads  
Stop Sign Ahead  
Yield Sign  
Level Crossing w/wo Gates  
Tramway Intersection  
Level Crossing Immediate Vicinity  
Level Crossing-Additional Panels

#### Informative Signs

1931 LN (Signs Giving One Indications)  
Authorized Parking Place (& 1928)  
Caution  
First-Aid Station  
Place  
Direction

1939 LN (Caution Signs & Indication Signs)  
Caution Signs  
    Caution  
    Approach to a School Entrance  
Indication Signs  
    Authorized Parking Place  
    First-Aid Station  
    Place



Direction  
Advance Direction

1949 UN

Indication Signs

Parking  
Hospital  
First-Aid Station  
Mechanical Help  
Telephone  
Filling Station  
Priority Road  
End of Priority

Advance Direction & Direction Signs  
Place & Route Identification Signs

1950 Old British System

Direction Signs  
Parking Place Signs

1950 CASATC

Curve  
Fork, L & R, LC/C  
Junction  
Sharp Turning to R, L  
Steep Winding Descent, L, R

Road Narrows  
T Junction  
Hospital  
First Aid  
General  
Pedestrian Crossing  
Telephone  
Filling Station  
Service Station  
Loading Zone  
Rank for Taxis  
Parking  
Bus Stop  
Tram Stop  
Second Stage

Major Road Ahead  
Advance Direction & Direction Signs  
Place & Route Identification Signs  
Direction  
Place Names  
Descriptive  
Route Markers

1952 GERSS

Advance Direction Signs  
Direction Signs

Route Markers	
Signs Given General Information	Gore
1961 US MUTCD	Exit Direction
Route Markers & Auxiliary Markers	One-mile Advance
Route	Two-mile Advance
Auxiliary Route Markers	Next Exit
Confirming & Reassurance Route Markers	Information Signs
Junction Markers	Rest & Information
Combination Junction	Service
Advance Turn Arrows	Next Services
Directional Arrow	Parking Area
Directional Assemblies	Mile Posts
Alternative Route Markers	Information
Temporary Markers	1967 IAMM (Guide Signs)
Alternative Markers	Route Markers
By-Pass Marker	City Name
Business Route Marker	Traffic Flow Indication
Detour Marker	Road Open or Closed Sign
Detour Arrow Sign	General Information & Auxiliary Signs
Cardinal Direction Marker	Parking Allowed
Trailblazers	Phone Service
Distance & Destination Signs	Mechanic Service
Destination	Gas Service
Distance	First Aid
Street Names	Sanitary Facilities
Expressway Directional	Restaurant

Hotel/Motel  
 Camping  
 Airport  
 Ferry Boat  
 Trolley Parking  
 Caravan Site  
 Bus Stop  
 Protected Pedestrian Walk  
 Advanced Guide Signs

1968 UN

Informative Signs Other Than Parking Signs  
 Advance Direction Signs  
 Direction  
 Place Identification  
 Confirmatory  
 Pedestrian Crossing  
 Other Signs Providing Useful Information for  
 Drivers of Vehicles: Hospital, One-Way, No-  
 Through Road, Tramway Stop, Road Open  
 or Closed with Panels  
 Signs Giving Notice of Facilities Which May  
 Be Useful to Road Users:  
     First Aid  
     Miscellaneous  
 Signs Providing Useful Information on Parking  
 Parking  
 Exit from Limited Duration Parking Zone

Regulatory Signs

1928 LN

Signs Prohibiting Passage  
 All Vehicles Prohibited  
 Motor Traffic Prohibited  
 Motor Lorries Prohibited  
 Motorcycling Prohibited  
 Cycling Prohibited  
 Riding Prohibited  
 Speed-Limit  
 No Entry  
 Compulsion Direction  
 No Waiting  
 Vehicles Weighing Over ... Tons Prohibited

1931 LN (Signs Giving Definite Instructions)

Signs Prohibiting Passage  
 Closed to all Vehicles  
 One-Way Road or Entry Prohibited  
 Certain Classes of Vehicles Prohibited:  
     All, M, MC  
 Weight Limit  
 MV Weight Over 5.5 Tons  
 Maximum Speed  
 Waiting Prohibited  
 Parking Prohibited

Signs Indicating an Obligation  
     Direction to be Followed  
     Stop Near Custom-House  
  
 1939 LN (Prohibitory or Mandatory Stop)  
 Prohibitory Signs  
     Closed to all Vehicles  
     One-Way Road or Entry Prohibited  
     MV Prohibited  
     MC Prohibited  
     MV (MV, MC) Prohibited  
     Pedal Cycles Prohibited  
     Weight Limit  
     Maximum Width of Vehicles  
     Maximum Height of Vehicles  
     Speed Limit  
     Stop Near Customs Office  
     Waiting Prohibited  
     Stopping Prohibited  
 Mandatory Signs  
     Direction to be Taken  
     Road to be Taken by Cycles  
     De-restrictions on the Removal ...  
  
 1949 UN Signs Giving Definition Instructions  
 Prohibitory Signs  
     Closed to all Vehicles in Both Directions

No Entry for all Vehicles  
 Turning to the R, L Prohibited  
 Overtaking Prohibited  
 No Entry for all MV Except MC w/o Sidecars  
 No Entry for all MV  
 No Entry for Goods Carrying Vehicles Exceed-  
     ing ... Tons Laden Weight  
 No Entry for Pedal Cyclists  
 No Entry for Vehicles Having Overall Width  
     Exceeding ... Metres (... Feet)  
 One-Way  
 No Entry for Vehicles Having an Axle Weight  
     Exceeding ... Tons  
 Speed Limit  
 End of Speed-Limit  
 No Entry for Vehicles Having Overall Height  
 No Entry for Vehicles Having Overall Height  
     Exceeding ... Metre (... Feet)  
 No Entry for Vehicles Exceeding ... Tons  
     Laden Weight  
 Stop at Intersections  
 Stop (Customs)  
 Restricted Stopping or Waiting  
 Waiting on Alternate Sides

Mandatory Signs  
Direction to be Followed  
Compulsory Cycle Track  
Compulsory Minimum Speed

1950 Old British System

Prohibitory Signs  
Prohibition of:  
Waiting  
Parking  
Speed (Over Given Limits)  
Exclusion of Types of Traffic or all  
Traffic (From Specific Roads)  
Mandatory Signs  
Directions on:  
Turns, L, R  
Keep L, R  
Halt- Major Road  
Children Crossing

1950 CASATC (Prohibitory & Mandatory Signs)

Restriction Notice  
No Overtaking  
Speed Limit  
Stop  
Speed Limit Restriction  
De-restriction Notice

Level Crossing Stop  
No Parking  
Stop-signal for Scholar Patrol  
Compulsory Cycle Track  
No Stopping

1952 UN GERSS

Stop  
Direction Prohibited  
Turning to the R, L, Prohibited  
About-Turn (U-Turn) Prohibited  
Overtaking Prohibited  
No Entry for Vehicles Having an Overall Width  
Exceeding ... Metres (... Feet)  
No Entry for Vehicles Having and Overall Height  
Exceeding ... Metres (... Feet)  
No Entry for Vehicles Exceeding ... Tons Laden  
Weight  
Speed Limit  
Direction to be Followed  
Restricted Parking  
Parking Prohibited  
No Entry for Goods-Carrying Vehicles  
No Entry for MV  
No Entry for Bicycles  
Horn Blowing Prohibited

1961 US

Stop  
Yield  
Speed Limit  
Special Speed Limit  
Night Speed Limit  
Minimum Speed Limit  
Speed Zone Ahead  
End ... Mile Speed  
Turn Prohibited, R, L, All, U  
Lane-Use Control Signs at Intersections  
Do Not Pass  
Pass with Care  
Slower Traffic Keep Right  
Truck Use Right Lane  
Truck Lane ... Feet  
Keep Right  
Do Not Enter  
No Trucks  
Trucks Excluded  
Commercial Vehicles Excluded  
Pedestrians Prohibited  
One-Way  
Two-Way Traffic Ahead  
End-One-Way  
Parking & Stopping  
No Parking on Pavement

No Parking Except on Shoulder  
Walk on Left  
Pedestrian Crossing  
Keep Off Median  
Road Closed ... Miles Ahead  
Local Traffic Only  
Weight Limit

1967 IAMM

Stop Sign  
Yield  
Do Not Enter  
No Left Turn/No Right Turn  
No U-Turn  
No Parking  
Restricted Parking  
No Parking & No Stopping  
Do Not Overtake  
Do Not Change Lane  
No Trucks  
No Passenger Cars  
No Animal-Drawn Carts  
No Bicycles  
No Farm Machinery  
Maximum Load  
Maximum Height  
Maximum Load Per Axle

Maximum Length Permissible	No Entry For ...
Maximum Speed	Driving of Vehicles Less Than ... Metres (... Yards) Apart Prohibited
Silence	No R/L Turns
Customs	No U-Turns
Chains (or Spikes) on Tires	Overtaking Prohibited
Keep Your Right	Overtaking by Goods Vehicle Prohibited
Compulsory Circulation	End of All Local Prohibitions
Turn Left Only	End of Speed Limit
Turn Right Only	End of Prohibition on Overtaking
Keep Straight	Passing w/wo Stopping Prohibited (Customs)
Trucks to Right-Lane	Mandatory Signs
Two Way Traffic Ahead	Direction to be Followed
No Pedestrians	Pass This Side
Pedestrians to the Left	Compulsory Roundabout
1968 UN	Compulsory Cycle Track
Regulatory Signs Other Than Standing & Parking	Compulsory Foot Path
Priority Signs	Compulsory Track for Riders on Horseback
Give Way	Compulsory Minimum Speed
Stop	End of Compulsory Minimum Speed
Priority of Road	Snow Chains Compulsory
End of Priority	Standing & Parking Signs
Priority for Oncoming Traffic	Parking Prohibited
Priority over Oncoming Traffic	Standing & Parking Prohibited
Prohibitive or Restrictive Signs	Alternated Parking
No Entry	Limited Duration Parking Zone
Closed to all Vehicles in Both Directions	

## vii Overarching Terms for Traffic Signs

The basic overarching and sub-overarching terms within Traffic Signs are considered early in the Appendix. However, there is no “natural” place for listing and describing general Sign terms whether primary, historical, or peripheral terms. A section might be added to one of the three chapters on Traffic Signs for that topic but no one chapter represents all Signs. This Appendix provides a more adequate venue for overarching terms.

The terms include:

- Highway Signs
- Road Signs
- Roadside Traffic Signs
- Road Traffic Signs
- Sign Boards
- Signing
- Signs
- Street Traffic Signs
- Traffic Signs

The three most important terms are Signs, Road Signs and Traffic Signs. Signs is a pivotal term for Communication and Semiotics. Confusion results in the theoretical, overarching use of the terms Sign, and the specific use of the same term. Some TCD sources employ the term Sign internally in publications after first employing a compound term for

the titles of publications. For example, Canada refers to Traffic Signs in table of contents and general usage but then refers to Signs or a sub-category such as Regulatory Signs.

Road Signs is a frequency employed term by many systems including UN, ECE, IRF, IAMM. The term refers to the road rather than to vehicular traffic. A similar approach can be seen with Road Signals and Road Markings. There is an underlying rationale and philosophy when a source uses Traffic (indicating movement of vehicles) in conjunction with T-M terms while another source employs Road indicating the surface over which vehicles travel.

Canada and the US often use the term Traffic Signs; that is the basic Sign for the category. The US includes Traffic Signs in glossaries and introductory coverage but employs the single word Sign in tables of contents and general coverage. While Signs and their usage are essentially the same the use of road or traffic suggests a difference in approach.

A variety of other terms and composite terms can be found in the literature. Sign Posts and Sign Boards appear in older and historical usage. Both terms may suggest the physical aspect of the Sign



but not the but not the message dimension. Yet the message aspect is an integral part of the Sign Post and Sign Board. Highway Signs find occasional use though it is more common in older sources. It enjoys some recent use in the work of the International Conference on Highway Sign Symbolology (1972).

League of Nation documents often refer to Road Signalling. However, that term has little, if anything, to do with Traffic Signals. Instead, it applies mostly to Signs. Other terms include a composite term of Road Traffic Signs (from Zuniga who has roots in the Western Hemisphere); Roadside Traffic Signs (from Tripp, an English source); Street Traffic Signs (from Hawkins whose writing focuses on the history of US TCDS and documents). Occasional use is made of Highway Symbol Signs and Symbol Signs; the later term can be easily confused with studies in the vein of communication and semiotic studies.

The term Traffic Signs -- along with Traffic Signals and Traffic Markings -- is preferred in this study. The terms suggest vehicles more directly Road -- at least in US practice -- may seem to suggest one type of surface for travel while streets and highways are other surfaces. In short, road does not seem to be a fully overarching term.

## Appendix II: Overarching & Category Terms

### i General Overarching Terms

The several chapters of the monograph offer an appropriate venue for those overarching terms representing to the categories of Road/Traffic Signs, Signals, Markings. The Appendix has been added to in order to encompass overarching terms for the full spectrum of devices. A summary listing of terms for each of the categories is also included as are cross- categories terms.

The Western Hemisphere and Australia includes a full-spectrum term: Traffic Control Devices (TCD). The term, of US provenance (TCD was coined in 1934 and 1935 though the process of development is unknown), includes all forms of safety aids that focus on road and traffic needs. However, the term has not found universal application. In fact, there is no alternative term in European practice. Probably the only alternative terms are Road Devices in Australia, and Traffic Devices by a US author.

UN 1949, UN 1968, and UN GERSS 1952 employ Road Signs and Signals which would seem to exclude Road Markings. However, Road Markings are included in those publications even if absent from the titles.

ECAFE 1964 employs a cumbersome title: Road Signals, Signs, Pavement Markings & Signs for Road Works; at least it is comprehensive.

League of Nations publications use Road Signals (1931) and Road Signalling (1928, 1933 revision of LN 1931, and 1939). The terms are employed either as an overarching term for the full spectrum of Safety Aids or perhaps as a virtual synonym for Signs since LN publications are mostly Sign-orientated in content.

Zuniga offers an overarching term that is comprehensive though more wordy than TCD: Signs, Signals, Markings. The term is satisfactory if the user is aware that the unqualified terms of Zuniga's terms refer to road safety concerns.

A review of general overarching terms for other T-M forms may be instructive as a backdrop for TCD terms. Marine and Aeronautical Safety Aids have overarching terms (at least for some nations): Marine Aids to Navigation, Aeronautical Navigation Aids. But Railway/Railroad Safety Aids lack an overarching term. Often times Railway/Railroad Signals includes all forms of Safety Aids including Rail Signs, Rail Markers. That situation is reminiscent of terms for road safety for a variety of systems, of nations. Traffic Control Devices seems a plausible term for the field though admittedly it has not met with universal acceptance.

### ii Major Terms for the Categories of Traffic Control Devices

There are several terms for each of the categories of Signals, Signs, Markings together. The following list is a summary of those terms:

Traffic Signals: Traffic Lights, Traffic Light Signals, Traffic Signals, Traffic Control Signals/Signals for Vehicular Traffic

Traffic Signs: Road Signs, Traffic Signs, Road Traffic Signs, Highway Signs, Roadside Traffic Signs

Traffic Markings: Road Markings, Traffic Markings, Pavement Markings, Carriageway Markings

Note: Traffic Signs is outside of the classification system for T-M. And while it is the primary Sign term, it is missing from the three chapters on Signs since each takes up one basic form. Traffic Markings is also absent from the classification. Traffic Signs and Traffic Markings need to be included in a revised T-M classification.

### iii Cross-Category Terms

A variety of systems have reorganized parts of the Sign categories or

created special categories. Often times the Signs within those segments are very similar to the Signs of the regular categories though Signs may be included. They include:

UN GERSS 1952 has no special categories though Level-crossing Gates, Lights are attached to Warning Signs for level-crossings.

UN 1949 has a section called "Supplementary Provisions Concerning Level-Crossings." It contains Panels, Signs, Gates, Half-Gates, Signals. Signs are primarily in the Warning group.

UN 1968 has rearranged a variety of categories:

Regulatory Signs Other Than Standing & Parking Signs

Informative Signs Other Than Standing & Parking Signs

Regulatory Signs Other Than Priority, Standing & Parking Signs

Standing & Parking Signs

Signs for Road Works (Includes Markings by lights or reflecting devices and also barriers)

Level-Crossings (Gates, Half-Gates, Lights, Panels)

Signs Regulating Priority at Intersections, Danger Warning Signs at

Approaches to Intersections & Signs Regulating Priorities on Narrow Sections of Roads

The Database has retained the basic categories of Informative, Regulatory, Warning Signs despite UN 1968. The basic groups remain valid though the complex UN pattern is a valuable corrective to misconceptions on the workings of Signs.

Canada 1976 includes a Temporary Conditions Signs and Devices category. This category refers to Construction and Maintenance and other short-term situations. Some of the Signs are special to that category while others are similar to regular Signs though color usage is at variance.

US MUTCD 1978 has several special categories:

Traffic Controls for Streets & Highway Construction & Maintenance

(the 1988 edition adds Utility & Emergency Operations to that category)

Traffic Controls for Schools Areas

Traffic Control Systems for Railroad-Highway Grade Crossings

Traffic Controls for Bicycle Facilities

UK MOT (Old British System) has a category of Warning & Informative Signs whose Sign are nearly all are of a warning nature with the remaining Signs similar to Regulatory Signs.

CASATC 1950 includes categories of Temporary Road Signs, and Traffic Light Signs (the later includes Signals and various Signs/Lights Assemblies).

## BIBLIOGRAPHY

### Sources Other Than Codes

- Brandes, William C. 1940. Traffic Color Sequence. *Traffic Engineering*. June: 23-4.
- Clearman, Brian. 1997, 2007. *Transportation-Markings Database: Marine*. 1st and 2nd ed. St Benedict (OR): Mount Angel Abbey
- Comprehensive Bibliography for Roadway Delineation Practices Handbook*. 1979. San Francisco: JHK & Associates.
- Eagle Signal Company. "Eage Traffic Beacons and Flashers." Bulletin B-10. Austin, Texas.
- Eliot, William C. 1960. Symbology & the Highways of the World. *Traffic Engineering*. December: 18-24.
- Evans, Henry K. ed. 1950. *Traffic Engineering Handbook*. New Haven (CT): Institute of Traffic Engineering. 2nd ed.
- Finnbogason, W.H. 1963. Uniformity of Traffic Control Devices in Canada. *Traffic Engineering*. August: 23-27, 54.
- Fullerton, I.J. (R.A. Presby, Bibliography). 1981. *Roadway Delineation Practices*. Washington, D.C.: US Federal Highway Administration. (Performing Organization: JHK & Associates.
- Hammond, Harold F. & Sorenson, Leslie J. eds. 1941. *Traffic Engineering Handbook*. New York: Institute of Traffic Engineering & National Conservation Bureau.
- Hawkins, H. Gene. 1992. Evolution of the MUTCD: Early Standards for TCDs. *ITE Journal*. July: 23-26.
- \_\_\_\_\_. 1992. Evolution of the MUTCD: Early Editions of the MUTCD. *ITE Journal*. August: 17-23.
- \_\_\_\_\_. 1992. Evolution of the MUTCD: The MUTCD Since World War II. *ITE Journal*. November: 17-23.
- \_\_\_\_\_. 1994. New Developments with the MUTCD. *ITE Journal*. February: 16-21.
- Homburger, Wolfgang S, and Kell, James H. 1977. *Fundamentals of Traffic Engineering*. Berkeley: Institute of Transportation Studies, University of California. 9th ed.
- \_\_\_\_\_. and Hall, Jerome, Reilly, William, Sullivan, Edward. 2001. *Fundamentals of*

*Traffic Engineering*. Berkeley: Institute of Transportation Studies, University of California. 15th ed.

- International Municipal Signal Association. 1981. *Traffic Signal Manual*. 2nd ed. Chicago: IMSA.
- International Road Federation. 1984. *European International Road Sign System*. Geneva & Washington, D.C.: IRF.
- \_\_\_\_\_. ud. *Inter-American International Road Sign System*.
- Johnson, A.E., ed. 1965. *American Association of State Highway Officials: A Story of the Beginnings, Purposes, Growth, Activities, and Achievements of AASHO*. Washington, D.C.: American Association of State Highway Officials.
- Johnson, I.R. 1980. *Evaluation of Symbols for Traffic Signs*. Vermont South, Victoria (Australia): Australian Road Research Board.
- Keller, Allen W. 1931. Street Traffic Control & Regulation in Europe. *Proceedings of the Annual Meeting of the 2nd Annual Meeting of the Institute of Traffic Engineering*. Chicago, October 10-15, 1931.
- Krampen, Martin. 1983. Icons of the Road. *Semiotica: Journal of the International Association for Semiotic Studies*. Special Issue. Volume 43-1.2.
- Macnee, W.Q. 1960. Uniform Traffic Control Devices for Canada. *Traffic Engineering*. August: 18-19, 39-40.
- Mueller, Edward A. 1970. Aspects of the History of Traffic Islands. *Institute of Electric & Electronic Engineers Transactions on Vehicular Technology*. Volume VT-19 #1. February: 6-17.
- Noble, Dudley. 1946. *The Book of Road Signs*. London: William Clowes & Sons for British Road Federation.
- O'Dea, William T. 1958. *The Social History of Lighting*. London: Routledge and Kegan Paul.
- Proceedings: International Conference on Highway Sign Symbology*. Washington, D.C. June 5-6, 1972. Washington, D.C.: International Road Federation and US Department of Transportation, Federal Highway Administration.
- Research on Road Traffic*. 1965. HMSO: London.
- Road Marking & Delineation*. 1975. Organisation for Economic Co-operation & Development. Paris: OECD.

- Sessions, G.M. 1970. *Traffic Devices: Historical Aspects Thereof*. Washington, D.C.: Institute of Traffic Engineers.
- Traffic Light. 2005. *Wikipedia--The Free Encyclopedia*. [http://en.wikipedia.org/wiki/Traffic\\_signal](http://en.wikipedia.org/wiki/Traffic_signal). 4-10-05.
- United Kingdom. ca. 1950. History and Development of Traffic Signs. [Handout]. London: Ministry of Transport.
- United States. USDOT Federal Highway Administration. 1983. *Traffic Devices Control Handbook*. Washington, D.C.: GPO.
- Wainwright, W. Scott. 2005. Global Harmonization of Traffic Control Devices: What are the Opportunities? [www.ite.org/conference\\_papers/CB05B2301](http://www.ite.org/conference_papers/CB05B2301). (10-08-2007).
- Webster, F.V. 1960. *Traffic Signals*. Harmondsworth (Mdx), UK: Road Research Laboratory.
- \_\_\_\_\_. and Cobbe, B.M. 1966. *Traffic Signals*. Road Research Technical Paper #56. London: HMSO.
- Wiring Materials and Power Apparatus*. 1947. General Electric Supply Corp. Grand Rapids (MI): The Jaqua Company.

#### Sources: Codes

- Australia. 1975. Australian Committee on Road Devices. *Manual of Uniform Traffic Control Devices*. Part I, Description of and Use of Elemental TCDs. (AS 1742). North Sidney: Standards Association of Australia.
- Blanchard, A.H., ed. 1919. *The American Highway Engineers Handbook*. New York: Wiley.
- Bowman, Brian L. 1995. Application of Supplemental Warning Devices. *ITE Journal*. August.
- California Department of Transportation (Caltrans). 1981. *Traffic Manual*. Sacramento: Caltrans.
- Canada. Council on Uniform TCD for Canada. 1976. *Uniform Traffic Control Devices for Canada*. Ottawa: Roads & Transportation Association of Canada.
- \_\_\_\_\_. 1985. *Sign Pattern Manual*. Ottawa: Roads & Transportation Association of Canada.
- Central & Southern Transport Conference. 1950. *Final Acts & Related*



- Documents*. Johannesburg: Provisional Organisation for Central & Southern African Transport.
- Convention with Respect to the International Circulation of Motor Vehicles*. 1909. Paris. (Cd 5125). London: HMSO, 1910.
- European Conference of Ministers of Transport. 1972. *European Rules Concerning Road Traffic Signs, and Signals*. Paris: European of Ministers of Transport.
- Jones, Robert, & Hawkins, H. Gene. 1997. *ITE Traffic Signing Handbook*. Washington, D.C.: ITE.
- Kuemmel, David. 2000. Accessible Pedestrian Signals. *ITE Journal*. March.
- Lay, M.G. 1990. *Handbook of Road Technology*. 2nd ed. Volume I, *Planning & Pavements*. Volume II, *Traffic & Transport*. New Brunswick (NJ): Rutgers University Press.
- League of Nations. 1931. *Convention Concerning the Unification of Road Signals*. European Conference on Road Traffic. (C.231 M. 99. 1931, VIII, 3-16--3-30). [Revised 1933]. Geneva.
- \_\_\_\_\_. 1926. *International Convention Relative to Motor Traffic*. (Paris). (Cmd 3510, Treaty Series No. 1). London: HMSO.
- \_\_\_\_\_. 1928. *Report of the Permanent Committee Road Traffic Regarding Road Signalling*. Advisory and Technical Committee for Communications and Transit. Geneva. C.C.T./C.D.R./12.
- \_\_\_\_\_. 1939. *Draft Resolutions*. Geneva. 3027, C.C.T./C.D.R./12. (And table of illustrations, ud).
- Manitoba. Manitoba Public Insurance. 2007. Signs and Signals (Driver Handbook). <http://www.mpi.mb.ca/english/english.html>. (10-28-07).
- Ontario. Ministry of Transportation. 2003. Road Signs in Ontario. <http://www.mto.gov.ca/english/traveller/signs/>. (10-28-07).
- Pan American Highway Congresses. 1967. *Interamerican Manual: Traffic Control Devices for Street and Highways*. Washington, D.C.: PAHC.
- \_\_\_\_\_. 1981. *Revision Del Manual, Capitulo: Senales*. Mexico City.
- Tripp, Alker. 1950. *Road Traffic and Its Control*. London: Edward Arnold Co.
- Turkey. 1975. *Trafik Isaretleri Elkitabi*. Ankara: Bakim Daire si Baskanligi Trafik Fens Heyiti Muduriluga.
- United Kingdom. ca. 1950. *British Road Signs (Broadside)*. London: Ministry of Transport. [Referred to as OBS in study: Old British System].

- UN. 1949. *Convention on Road Traffic*. Geneva.
- UN. 1968. *Convention on Road Signs and Signals*. Vienna.
- UN. 1968. *Proposals, Suggestions, and Observations Concerning the Draft Convention on Road Signs and Signals*.
- UN. Economic Commission for Asia & the Far East (ECAFE). 1964. *Code for a Uniform System of Road Signs & Signals, Pavement Markings & Signs for Road Works in the ECAFE Region*. Saigon.
- UN. Economic Commission for Europe. 1957. *European Agreement on Road Markings*. Geneva.
- UN. Economic Commission for Europe. 1995. *Amendment 1. Convention on Road Signs & Signals*. Geneva.
- UN. Group of Experts on Road Signs & Signals. 1952. *Final Report by the Group of Experts on Road Signs & Signals to the 6th Session of the Transport & Communication Commission*. New York.
- United States. 1948. *Manual of Uniform Traffic Control Devices*. Public Roads Administration. Washington, D.C.: GPO.
- \_\_\_\_\_. 1961. *Manual of Uniform Traffic Control Devices*. Bureau of Public Roads, Department of Commerce. Washington, D.C.: GPO.
- \_\_\_\_\_. 1971, 1977, 1988, 2000, 2003. *Manual of Uniform Traffic Control Devices*. FHA, US DOT. Washington, D.C.: GPO.
- \_\_\_\_\_. 1996. *Notice of Proposed Admendments to the Manual of Uniform Traffic Control Devices*. FHWA Docket No. 96-47). Part III, IV, & VII.
- \_\_\_\_\_. 1979. *Road Symbol Signs*. FHA, US DOT. Washington, D.C.: GPO.