Rules

- **Route Definition**
- **Technical Criteria**
- **Event Operations**

Route Definition

RNDF

Route Network Definition File

At least 24 hours in advance of start

MDF$_1$

Mission Data File
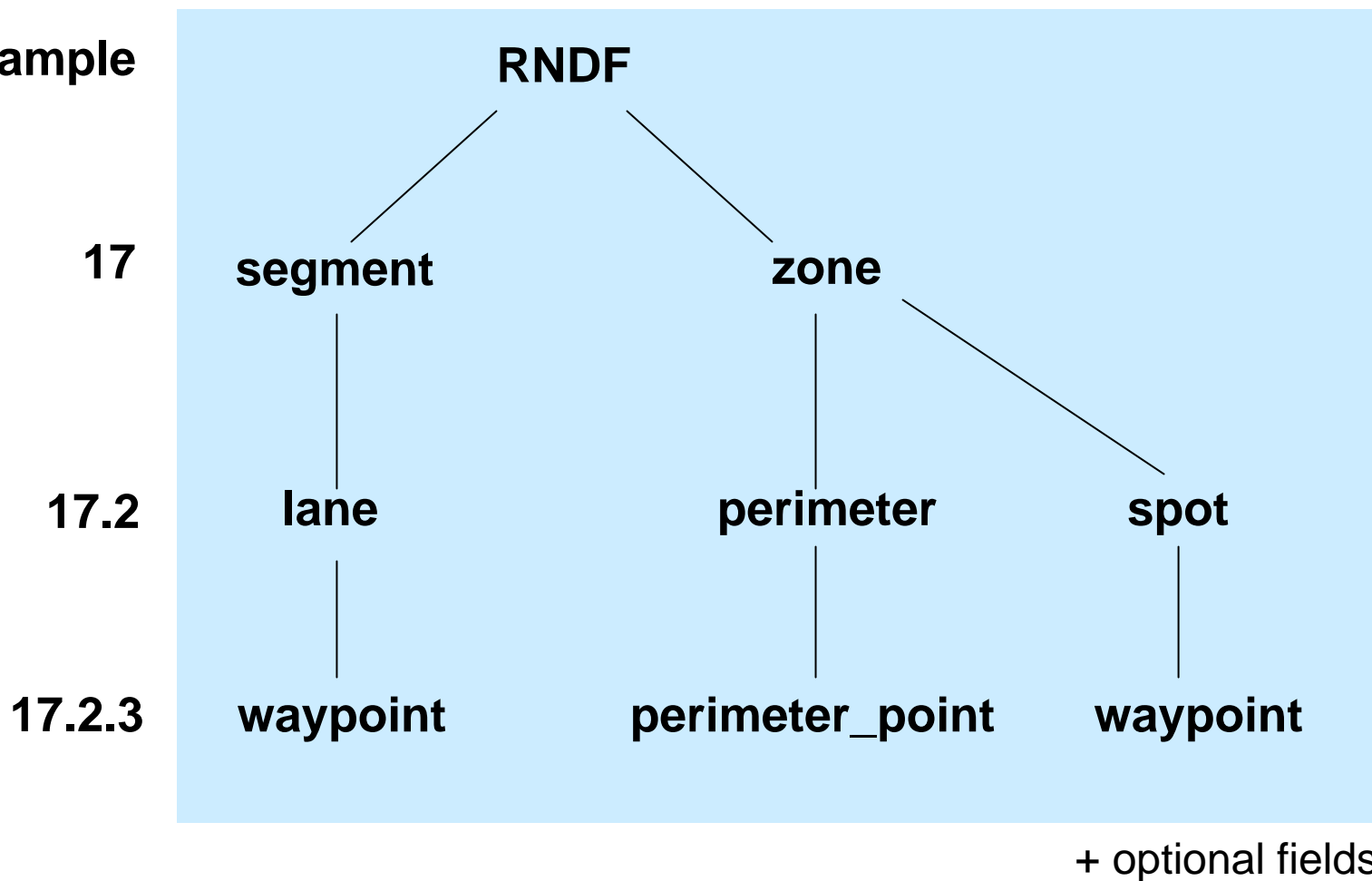
at least 5 minutes before start

MDF$_2$

at least 5 minutes before second mission

+ optional additional missions
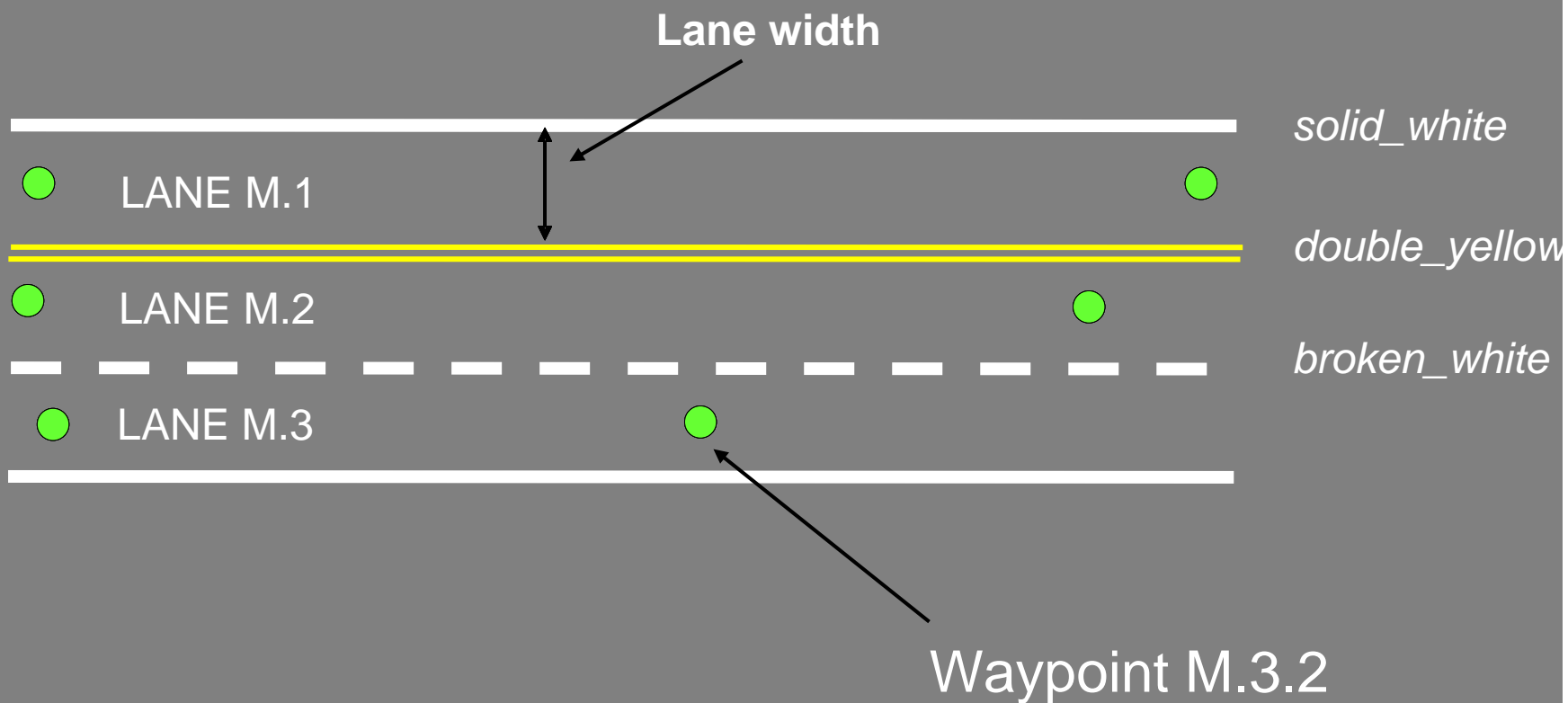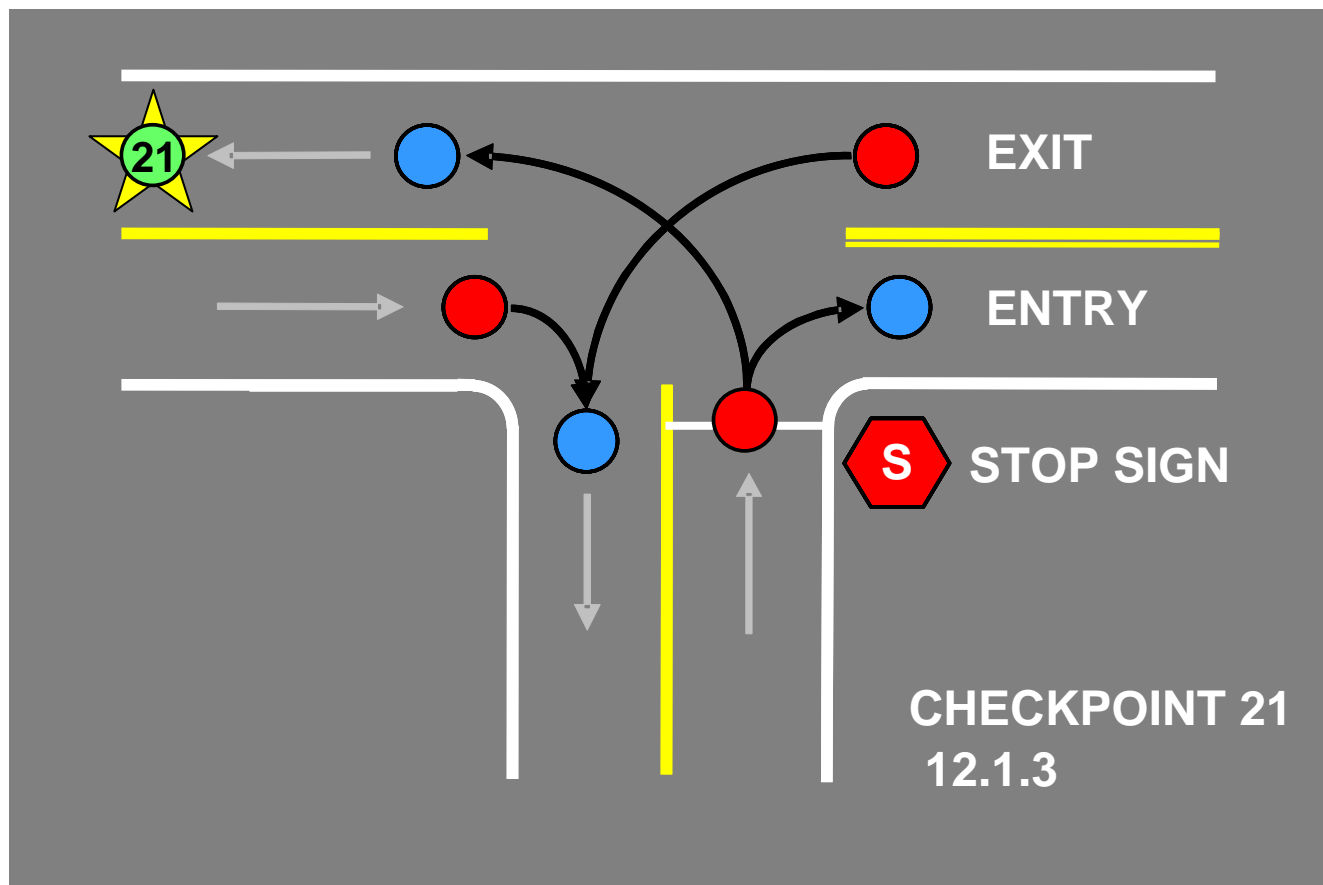
RNDF - Route Network Definition File

Example

17

17.2

17.2.3

RNDF

segment — zone

lane — perimeter — spot

waypoint — perimeter_point — waypoint

+ optional fields

Segments and Lanes

SEGMENT M

Lane width

solid_white

LANE M.1

double_yellow

LANE M.2

broken_white

LANE M.3

Waypoint M.3.2

Exits and Checkpoints

EXIT

ENTRY

S STOP SIGN

21 CHECKPOINT 21 12.1.3

🔴 EXIT   🟢 WAYPOINT

🔵 ENTRY   ⭐21 CHECKPOINT

How to visit a checkpoint

NO

robot

robot

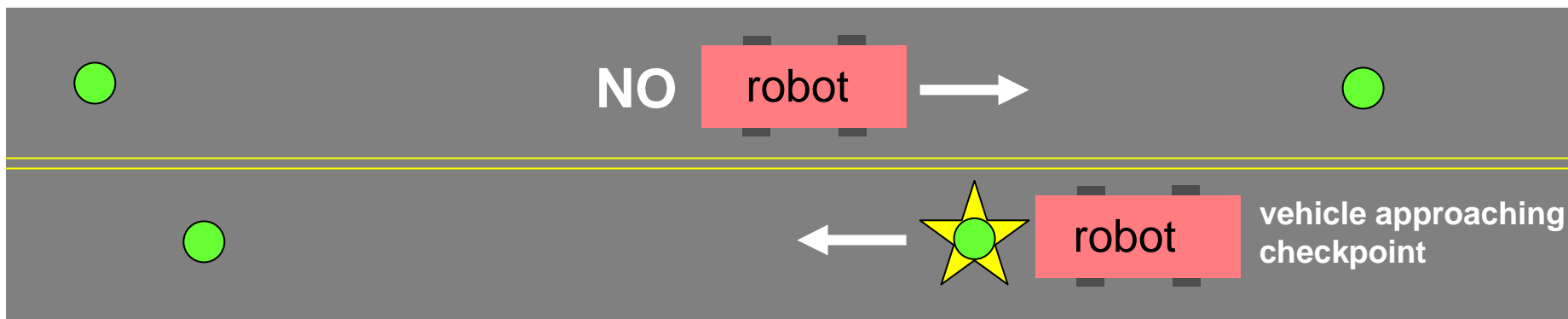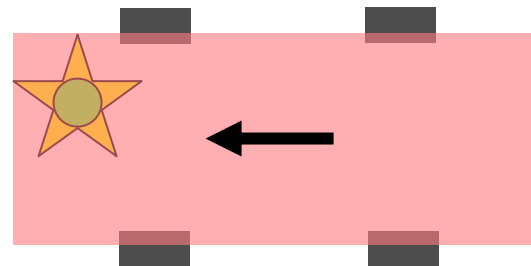vehicle approaching checkpoint

Front bumper must completely pass over checkpoint in the proper lane
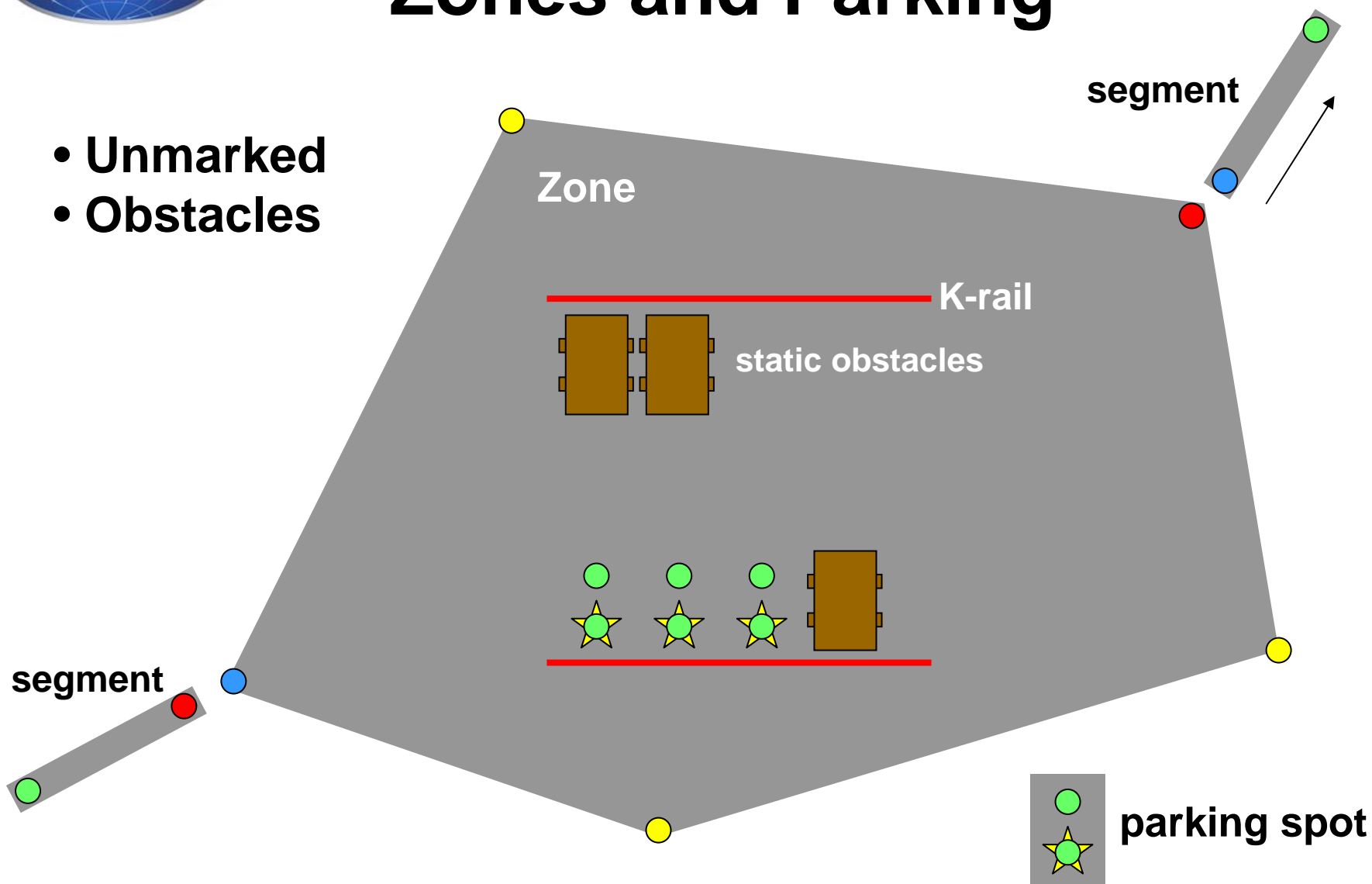
YES

Road Markings

lane width

double_yellow
in RNDF

white
not in RNDF

Curb

Stop Line

Zones and Parking

- **Unmarked**
- **Obstacles**

Zone

segment

K-rail

static obstacles

segment

parking spot

MDF - Mission Data File

MDF

checkpoints

7
23
1
2
1
2
5

- **Random start**
- **Follow in order**
- **May repeat**

speed limits

- **Speeds in miles per hour**
- **May change from mission to mission**
- **Per segment**