

## E01F

### ADDITIONAL WORK, SUCH AS EQUIPPING ROADS OR THE CONSTRUCTION OF PLATFORMS, HELICOPTER LANDING STAGES, SIGNS, SNOW FENCES, OR THE LIKE

#### Definition statement

*This place covers:*

Additional equipment for roads or railways, including platforms, refuge islands, drainage means of the sub-base of roads or ballastway of railways, arrangements protecting against snow or landslides, arrangements against traffic noise.

Landing stages for helicopters.

Arrangements for facilitating the use of roads, including road signs, traffic signals, arrangement for enforcing caution, arrangements for obstructing or restricting traffic, safety arrangements for errant vehicles or against vehicular impact.

#### Relationships with other classification places

The structure and construction of railways and roads as such is covered by the respective subclasses [E01B](#) and [E01C](#).

Ground installations for aircraft in general are covered by the subclass [B64F](#).

Systems for traffic control or monitoring are covered by the subclass [G08G](#).

Displaying and advertising signs are covered by the subclass [G09F](#).

## E01F 1/00

**Construction of {station or like} platforms or refuge islands {or like islands in traffic areas, e.g. intersection or filling-station islands} (general arrangement {of filling stations [B60S 5/02](#),} of railway platforms {[B61B 1/02](#), of traffic-channelling island at intersections [E01C 1/02](#) }){; Kerbs specially adapted for islands in traffic areas (specially adapted for guiding, marking or signalling [E01F 9/535](#), for illumination [E01F 9/547](#); lane separators diverting traffic past safety zones [E01F 9/588](#))}**

#### Definition statement

*This place covers:*

Platforms for e.g. railway or bus stations.

Refuge islands in traffic areas and kerbs specially adapted for such islands.

Filling station islands.

Portable or retractable platforms for traffic officers.

#### References

##### Limiting references

*This place does not cover:*

Kerbs informing road users	<a href="#">E01F 9/535</a>
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Traffic lane delineators	<a href="#">E01F 9/588</a>
General arrangement of filling stations	<a href="#">B60S 5/02</a>
General arrangement of railway stations and platforms	<a href="#">B61B 1/02</a>
Horizontal loading or unloading platforms	<a href="#">B65G 69/22</a>
Traffic islands in roads	<a href="#">E01C 1/02</a>
Waiting shelters for bus stops	<a href="#">E04H 1/1211</a>

## E01F 3/00

Landing stages for helicopters, e.g. located above buildings (layout of airfields [B64F](#); buildings or like structures for special purposes [E04H](#))

### Definition statement

*This place covers:*

Landing stages for helicopters located on the ground, over the water surface or above buildings

### References

#### Limiting references

*This place does not cover:*

Layout of airfields	<a href="#">B64F 1/00</a>
Paving of take-off areas for vertically starting aircraft	<a href="#">E01C 9/008</a>
Buildings for storing aircraft	<a href="#">E04H 6/44</a>

## E01F 5/00

Draining the sub-base {, i.e. subgrade or ground-work, e.g. embankment} of roads or {of the} ballastway of railways {or draining-off road surface or ballastway drainage} by trenches, culverts, or conduits {or other specially adapted means} ({drainage of the ballastway of railways [E01B 11/00](#); surface drainage of roads [E01C 11/224](#); drainage of soil [E02B 11/00](#);} underground drainage [E02D](#); conduits for sewerage [E03F](#))

### Definition statement

*This place covers:*

Draining of the road foundation, which includes the road sub-base and subgrade or ground work (e.g. embankment), and draining of the ballastway of railways by using trenches, culverts, conduits or other specially adapted means.

Culverts, head structures for culverts or for drainage conduit outlets in slopes.

### References

#### Limiting references

*This place does not cover:*

Drainage of the ballastway of railways in general	<a href="#">E01B 1/00</a>
Surface drainage of roads	<a href="#">E01C 11/224</a>

Drainage of soil	<a href="#">E02B 11/00</a>
Underground drainage	<a href="#">E02D</a>
Underground siphons	<a href="#">E02D 29/08</a>
Conduits for sewerage	<a href="#">E03F</a>
Tunnels or galleries	<a href="#">E21D</a>
Pipes in general	<a href="#">F16L</a>

## E01F 7/00

Devices affording protection against snow, sand drifts, side-wind effects, snowslides, avalanches or falling rocks (permanently installed heating or blowing devices for roads [E01C 11/26](#)); Anti-dazzle arrangements {; Sight-screens for roads, e.g. to mask accident site ([E01F 8/00](#) takes precedence)}

### Definition statement

*This place covers:*

Snow fences, sand fences.

Devices specially adapted for protecting against wind, e.g. screens, deflectors or attenuators at tunnel or lock entrances.

Devices affording protection against snowslides, avalanches or falling rocks, e.g. avalanche preventing structures, galleries, nets, rock traps.

### References

#### Limiting references

*This place does not cover:*

Securing signs to safety barriers	<a href="#">E01F 9/669</a>
Crash barriers with nets	<a href="#">E01F 15/06</a>
Protecting plants	<a href="#">A01G 13/00</a>
Securing of slopes or inclines	<a href="#">E02D 17/00</a>
Snow traps for roofs	<a href="#">E04D 13/10</a>
Screens for beach use	<a href="#">E04H 15/00</a>
Fences in general	<a href="#">E04H 17/00</a>

## E01F 8/00

Arrangements for absorbing or reflecting air-transmitted noise from road or railway traffic (ground installations for reducing aircraft noise [B64F 1/26](#); general building constructions for absorbing or reflecting noise, noise absorption or reflection for buildings [E04B 1/74](#))

### Definition statement

*This place covers:*

Wall type noise barriers.

Arrangements including constructions for generation of phase shifting.

Noise barriers specially adapted for sustaining vegetation or for accommodating plants.

Embankment-type or crib-type noise barriers.

Retaining walls specially adapted to absorb or reflect noise.

## References

### Limiting references

*This place does not cover:*

Receptacles for cultivation of plants	<a href="#">A01G 9/02</a>
Ground installations for reducing aircraft noise	<a href="#">B64F 1/26</a>
Securing slopes or inclines	<a href="#">E02D 17/20</a>
Retaining or protecting walls	<a href="#">E02D 29/02</a>
General building constructions for absorbing or reflecting noise, noise absorption or reflection for buildings	<a href="#">E04B 1/74</a>
Building elements for planting walls	<a href="#">E04C 1/395</a>
Solar cells specially adapted to be used in motorway sound barriers	<a href="#">H02S 20/23</a>

## E01F 9/00

### Arrangement of road signs or traffic signals; Arrangements for enforcing caution (for obstructing or restricting traffic [E01F 13/00](#))

#### Definition statement

*This place covers:*

Traffic guidance, warning or control posts or bollards, delineator posts, milestones.

Supports for signs or signals, e.g. posts, frames, gantries.

Free-standing signs or signals, e.g. traffic cones, foldable or inflatable devices.

Devices intended to be readily removable, e.g. for insertion into road-stud sockets.

Storing, transporting, placing or retrieving portable devices.

Arrangements for fastening signs or signals to safety barriers or the like.

Road surface markings, also including methods of forming, installing or applying markings in, on or to paving.

Kerbs or road edgings specially adapted for informing road users, e.g. illuminated.

Arrangements specially adapted for audible or vibrational signalling, e.g. rumble strips, or for enforcing reduced speed, e.g. speed bumps.

Traffic studs, marking blocks, also including methods of forming or installing same in or on the road surface.

Traffic lines, lane delineators for discouraging but not preventing crossing, movable traffic lines for repeated use at different locations.

## References

### Limiting references

*This place does not cover:*

Barrier bollards	<a href="#">E01F 13/00</a>
Buffer bollards	<a href="#">E01F 15/003</a>
Markings specially adapted for playing grounds	<a href="#">A63C 19/06</a>
Portable emergency signal devices on board vehicles, e.g. warning triangles	<a href="#">B60Q 7/00</a>
Reflecting or signal paints	<a href="#">C09D 5/004</a>
Devices for applying prefabricated markings on finished paving	<a href="#">E01C 23/18</a>
Posts or poles in general	<a href="#">E04H 12/00</a>
Post holders to be placed on the ground in general	<a href="#">E04H 12/2238</a>
Boundary markers in general	<a href="#">G01C 15/04</a>
Portable traffic signalling devices	<a href="#">G08B 5/006</a>
Means for attaching signs to a supporting structure in general	<a href="#">G09F 7/18</a>
Adjustably mounting of signs in general	<a href="#">G09F 7/20</a>
Rotatably or swingably mounting of signs in general	<a href="#">G09F 7/22</a>

## E01F 9/696

**Overhead structures, e.g. gantries; Foundation means specially adapted therefor**

## References

### Informative references

*Attention is drawn to the following places, which may be of interest for search:*

Foundations in general	<a href="#">E02D</a>
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## E01F 11/00

**{Road engineering aspects of} Embedding pads or other sensitive devices in paving or other road surfaces {, e.g. traffic detectors, vehicle-operated pressure-sensitive actuators, devices for monitoring atmospheric or road conditions} (pressure-sensitive elements [G01L](#); traffic control systems [G08G](#))**

## Definition statement

*This place covers:*

Road engineering aspects of embedding pads or other sensitive devices in paving or other road surfaces, e.g. traffic detectors, vehicle-operated pressure-sensitive actuators, devices for monitoring atmospheric or road conditions.

## References

### Limiting references

*This place does not cover:*

Pressure-sensitive elements as such	<a href="#">G01L</a>
Traffic control systems	<a href="#">G08G</a>

## E01F 13/00

**Arrangements for obstructing or restricting traffic, e.g. gates, barricades (for railway crossings [B61L](#)); Preventing passage of vehicles of selected category or dimensions ([E01F 13/12](#), [E01F 13/126](#) take precedence)}**

### Definition statement

*This place covers:*

Portable barriers, pedestrian barriers, barriers for channelling or controlling crowds

Removable barriers with permanently installed base members.

Barriers with flexible members, e.g. cords

Devices movable to allow or prevent passage, with obstructing members situated on, flush with, or below the traffic surface, e.g. with inflatable members on the surface

Devices with obstructing members moving in translatory motion, e.g. telescopic barriers posts, or with members moving by swinging them into a given position, e.g. swinging gates, tiltable sections of the road surface, tiltable posts.

Vehicle barriers adapted for allowing passage in one direction only

Arrangements for forcibly arresting or disabling vehicles, e.g. spiked mats.

## References

### Limiting references

*This place does not cover:*

Retractable speed humps	<a href="#">E01F 9/529</a>
Portable signs co-operating with permanent base	<a href="#">E01F 9/677</a>
Safety means for railroad crossing traffic, e.g. gates for level crossings	<a href="#">B61L 29/00</a>
Corrals	<a href="#">E04H 17/18</a>
Gates or doors for allowing passage through fences, barriers or the like	<a href="#">E06B 11/02</a>

## E01F 15/00

**Safety arrangements for slowing, redirecting or stopping errant vehicles, e.g. guard posts or bollards; Arrangements for reducing damage to roadside structures due to vehicular impact (arrangements for fastening signs or signals to safety barriers or the like [E01F 9/669](#); for forcibly arresting vehicles [E01F 13/00](#))**

### Definition statement

*This place covers:*

Individual devices arranged in spaced relationship, e.g. buffer bollards.

Continuous barriers extending along roads or between traffic lanes, including barriers essentially made of longitudinal beams or rigid strips, essentially made of cables, nettings or the like, essentially made of walls or wall-like elements.

Movable lane separating barriers, e.g. shiftable barriers.

Arrangements specially adapted for local protection, e.g. for bridge piers, for traffic islands.

### References

#### Limiting references

*This place does not cover:*

Arrangements for forcibly arresting vehicles	<a href="#">E01F 13/12</a>
Guard barriers on road-bridges	<a href="#">E01D 19/103</a>
Fencing in general	<a href="#">E04H 17/00</a>