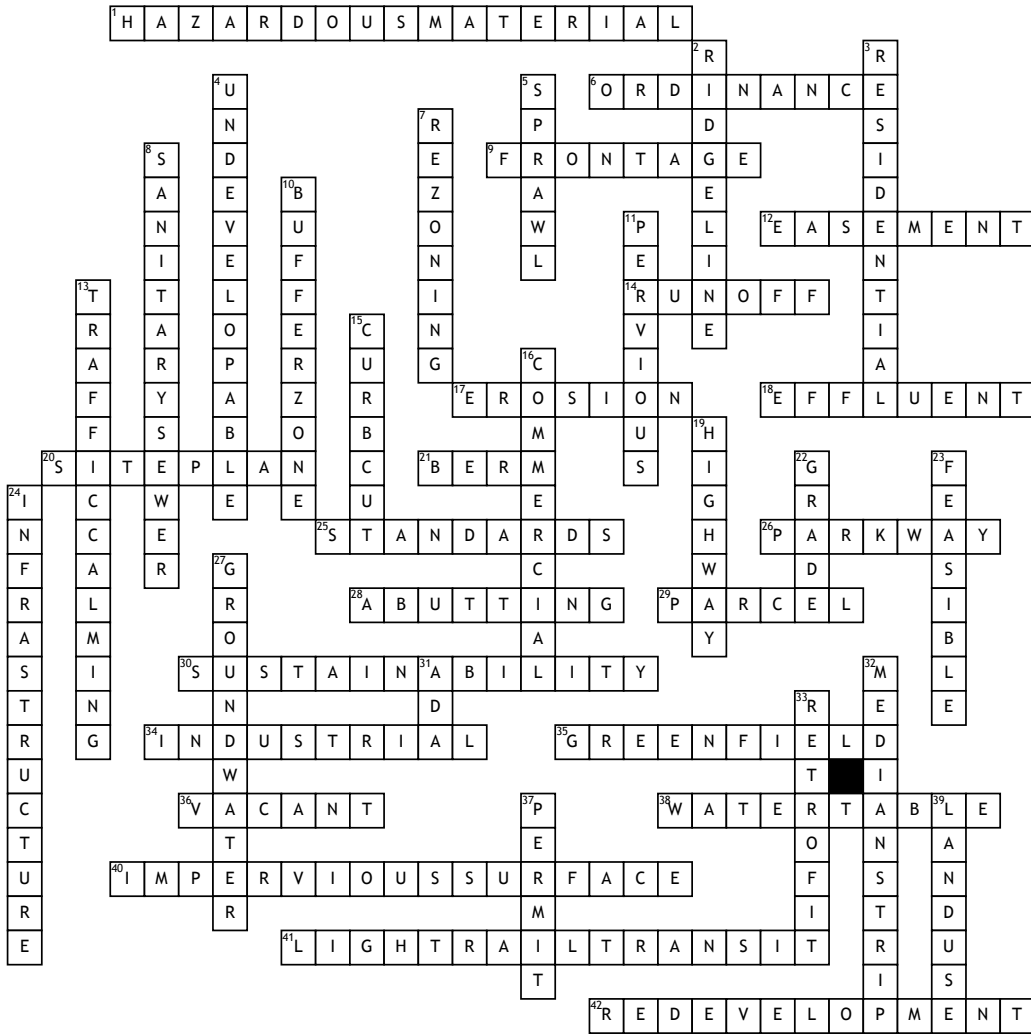


CIVIL ENGINEERING



- Across**
1. a substance or material capable of posing an unreasonable risk to health, safety, or property when transported in commerce
 6. a law or regulation adopted by a public agency, usually a city or county
 9. front of a lot that is usually defined as the side nearest the street
 12. the right to use property owned by another for specific purposes or to gain access to another property
 14. water from rain or snow that is not absorbed into the ground but instead flows over less permeable surfaces into streams and rivers
 15. a ramp opening in a curb where vehicles or wheel chairs may enter or leave the roadway
 17. the loosening and transportation of rock and soil debris by wind, rain, or running water
 18. a discharge of pollutants, with or without treatment, into the environment
 20. a plan, to scale, showing uses and structures proposed for a parcel of land. Includes both natural and man-made features.
 21. a mound of earth usually 2-6 feet high designed to shield and buffer uses like parking areas. also used to minimize water run-off
 25. a rule or measure establishing a level of quality or quantity that must be complied with or satisfied
 26. an expressway or freeway designed for non-commercial traffic; usually located within a strip of landscaped park or natural vegetation
 28. having property or zone district boundaries in common
 29. a lot in single ownership or under single control usually considered a unit for purposes of development
 30. development that meets the needs of the present without compromising the ability of future generations to meet their own needs

34. a land use classification often divided into "heavy industrial" uses (construction yards, quarrying, factories) and "light industrial" uses like research and development, and less intensive warehousing and manufacturing
 35. farmland and open areas where the lack of prior industrial or commercial activity means that the threat of contamination is lower than in urbanized areas
 36. lands or buildings that are not actively used for any purpose
 38. the upper surface of groundwater, or the level below which the soil is seasonally saturated with water
 40. a surface through which water cannot penetrate, like a roof, road, sidewalk, or paved parking lot
 41. streetcars or trolley cars that typically operate entirely in mixed traffic
 42. building new construction on a site that has pre-existing uses or renovating existing uses on a site
- Down**
2. a line connecting the highest points along a ridge
 3. land designated in the city or county general plan and zoning ordinance for buildings consisting only of dwelling units
 4. areas where topographic, geographic, and/or soil conditions indicate a significant danger to future occupants
 5. the spreading of a city and its suburbs over rural land at the fringe of an urban area
 7. an amendment to the map and/or text of a zoning ordinance to effect a change in the nature, density or intensity of uses allowed in a zoning district
 8. a system of subterranean conduits that carries refuse liquids or waste matter to plant where the sewage is treated
 10. an area of land separating 2 distinct land uses that softens or mitigates the effects of one land use on the other

11. permeable; allows something to pass through it
13. a strategic set of physical changes to streets to reduce vehicle speeds and volumes. (i.e. curb extensions, widened sidewalks, speed humps, traffic circles)
16. a land use classification that permits facilities for the buying and selling of commodities and services
19. inter-regional roadway that is part of the state transportation system
22. leveling or smoothing the contours of a property; the rate of rise or descent of a sloping surface
23. capable of being accomplished in a successful manner within a reasonable time taking into account economic, environmental, social, and technological factors
24. public services and facilities like sewage-disposal systems, water-supply systems, schools, roads, transit systems, etc
27. water under the earth's surface
31. americans with disabilities act; federal law that requires businesses and public facilities be accessible to individuals with disabilities
32. the dividing area, either paved or landscaped, between opposing lanes of traffic on a roadway
33. to add materials/devices to an existing building or system to improve its operation, safety, or efficiency
37. a specific authorization from a planning body to engage in a particular type of development or activity
39. the occupation or use of land or water area for any human activity

Word Bank

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|-----------------|--------------------|----------------|----------------|--------------------|--------------------|
| erosion | ada | grade | curb cut | parcel | feasible |
| pervious | site plan | frontage | vacant | light rail transit | parkway |
| sprawl | berm | highway | buffer zone | median strip | sustainability |
| traffic calming | impervious surface | runoff | effluent | permit | groundwater |
| easement | standards | retrofit | ordinance | LAND USE | hazardous material |
| greenfield | commercial | sanitary sewer | infrastructure | redevelopment | abutting |
| ridgeline | rezoning | water table | undevelopable | industrial | residential |