

versable ecoverable errain	Recoverable Terrain 10' min.	

Roadside Terrain includes all surfaces along the roadway adjacent to the traveled way. For the purpose of establishing clear zones and horizontal clearance requirements, roadside terrain is defined as recoverable, traversable, traversable nonrecoverable, nontraversable, and hazardous as

<u>Clear Zone</u> is the relatively flat unobstructed area that is to be provided for safe use by errant vehicles, and must be wide enough so that the sum of all the recoverable terrain within is equal to or greater than the value obtained in STEP 2. Recoverable terrain provided beyond nonrecoverable terrain must be a minimum of 10 feet. Areas beyond nontraversable and hazardous terrain cannot be used as recoverable or traversable

Horizontal Clearance Requirements are shown in Table C and are the required offsets to an object from a specified point on the roadway.

<u>Recoverable</u> when it is safely traversable and on a slope that is 1v:4h or flatter.

<u>Traversable Nonrecoverable</u> when it is safely traversable and on a slope that is steeper than 1v:4h but not steeper than 1v:3h.

<u>Nontraversable</u> when it is not safely traversable or on a slope that is steeper than 1v:3h.

<u>Hazardous</u> when a slope is steeper than 1v:3h and deeper than 6 feet as shown in Figure 2.

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	TABLE C						
CATEGORY	Item	OBJECTS, OBSTR	UCTIONS OR CONDITIONS	HORIZONTAL CLEARANCE REQUIREMENTS			
GENERAL	<u>No.</u> 1	Above ground fixed hazards: All roadside objects, obstructions or conditions other than those listed below that exceed 4 inches in height and pose a hazard to errant vehicles and vehicle occupants.		Restricted (See Table B) Locate as close to the Right Of Way as practical and not less than 4 feet from face of curb.	<i>Nonrestricted</i> Locate outside the clear zone as close to the Right Of Way as practical.		
	2	Drop-off hazards: Any point along a roadside slope steeper than 1v:3h that is deeper than 6 feet below the hinge point. See Figure 2.		Locate the point that is 6 feet below the hinge point no less than 22 feet from the edge of traveled way.	Treat as roadside slopes in accordance with Design Standard, Index 400.		
ROADWAY	3	All FDOT approved guardrails, guardrail end terminals, crash cushions, and concrete barriers (temporary or permanent).		Locate as shown in the Design Standards.			
	4	4 5 Mailboxes	Design Standard, Index 532	Locate in accordance with Desig	ocate in accordance with Design Standard, Index 532. Not to be used.		
	5		Not Shown in Design Standard, Index 532	Not to be use			
	6	Trees	Expected to become greater than 4 inches in diameter (measured 6 inches above the ground).	Outside roadways: Locate no less than 4 feet from face of curb in accordance with Design Standard, Index 546. Inside medians: Locate no less than 6 feet from the edge of traffic lane and in accordance with Design Standard, Index 546.	Locate outside the clear zone as close t the Right Of Way as practical and in accordance with Design Standard, index 546.		
	7		Not expected to become greater than 4 inches in diameter (measured 6 inches above the ground).	Locate in accordance with Design Standard, Index 546.			
	8	Behind guardrail.		Locate no less than 5 feet from the back of the guardrail post.			
	9	Canals	Unshielded	Locate as close to the Right Of Way as practical and not less than 40 feet from the edge of traveled way.	Design Speeds of 50 mph and greater: Locate as close to the Right Of Way as practical and not less than 60 feet from the edge of traveled way. Design speeds less than 50mph: Locate close to the Right of Way as practical a not less than 50 feet from the edge of traveled way.		
	10	Culvert wing walls, endwalls, retaining walls and flared end sections	less than or equal 6 feet deep.	Locate no less than 4 feet from face of curb.	Locate outside the clear zone.		
DRAINAGE	11		greater than 6 feet deep.	Treat as drop-off hazard,	l; See Item No. 2.		
	12	Mitered end sections.		Locate as shown in Design Standard, Index 273 and Index 273.			
	13	Frangible or breakaway sign supports.		Locate in accordance with Design Standard, Index 17302.			
RAFFIC CONTROL	14	Overhead sign supports and other nonfrangible signs.		Locate no less than 4 feet from face of curb.	Locate outside the clear zone		
DEVICES	15	Traffic infraction detectors, signal controller cabinets, signal poles, strain poles and mast arms		Locate no less than 4 feet from face of curb and not in medians.	Locate outside the clear zone and not in medians.		
LIGHTING	16	Conventional lighting (frangible and nonfrangible).		Locate no less than 4 feet from face of curb and only on barrier walls in medians.	Locate 20 feet from travel lanes or 14 feet from auxiliary lanes. Not in media May be clear zone width when the clear zone is less than 20 feet.		
	17	Highmast lighting		Not applicable	Locate outside the clear zone.		
STRUCTURES	18	Bridge piers and abutments: Above ground vertical structures.		Locate not less than 16 feet from edge of traveled way.	Locate outside the clear zone.		
UTILITIES	19	Fire hydrants with bases no higher than 4 inches above ground.		Locate not less than 2 feet from face of curb.	Locate as close to the Right Of Way as practical.		
	20	Aboveground fixed Utilities (AFUs).		New AFUs placed no closer than 4 feet from the face of curb and as close to the R/W as practical.	New AFUs are to be outside the Clear Zones established using Table A Recoverable Terrain and as close to the R/W line as practical.		
RAILROADS	21	Railroad crossing traffic control devices.		Locate in accordance with Design	Standard Index 17882		



GENERAL NOTES

 When shielding an object and sidewalks are present, an unobstructed sidewalk width of at least 4 feet must be provided.

2. When site specific conditions prohibit meeting the horizontal clearance requirements in TABLE C, the object, obstruction or condition must be crashworthy or mitigated, possibly by shielding. Otherwise, the Plans Preparation Manual, Volume 1, Chapters 2, 4, 21, 23 and 25.

