

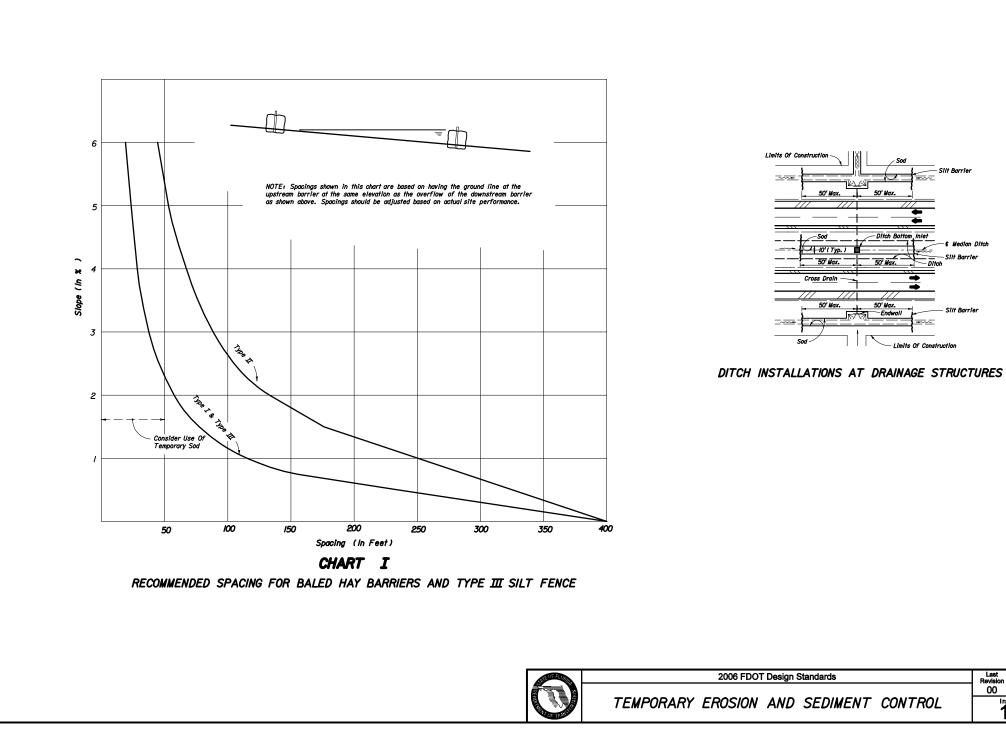
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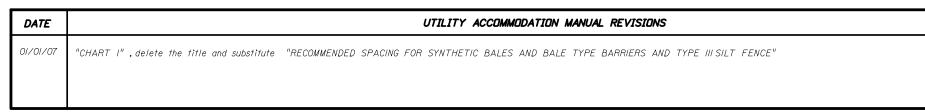
UTILITY ACCOMMODATION MANUAL REVISIONS

October 2007 Office: Utilities

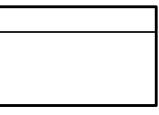
STATE OF FLORIDA	DEPARTMENT OF TRANSPORTATION

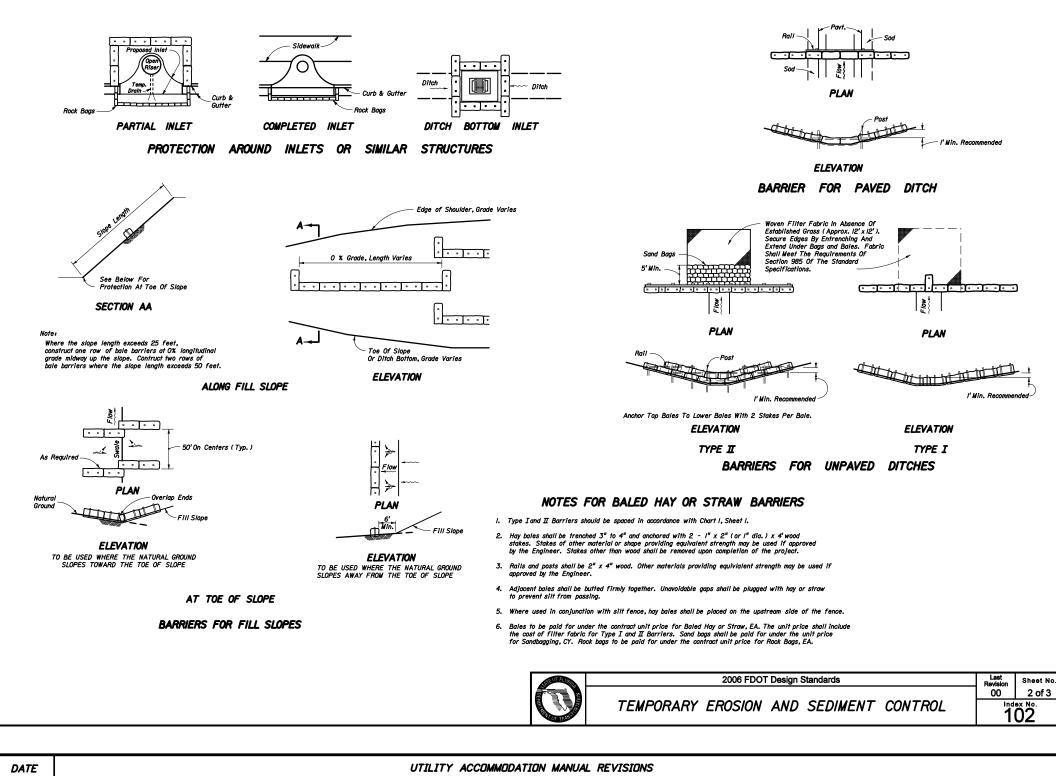
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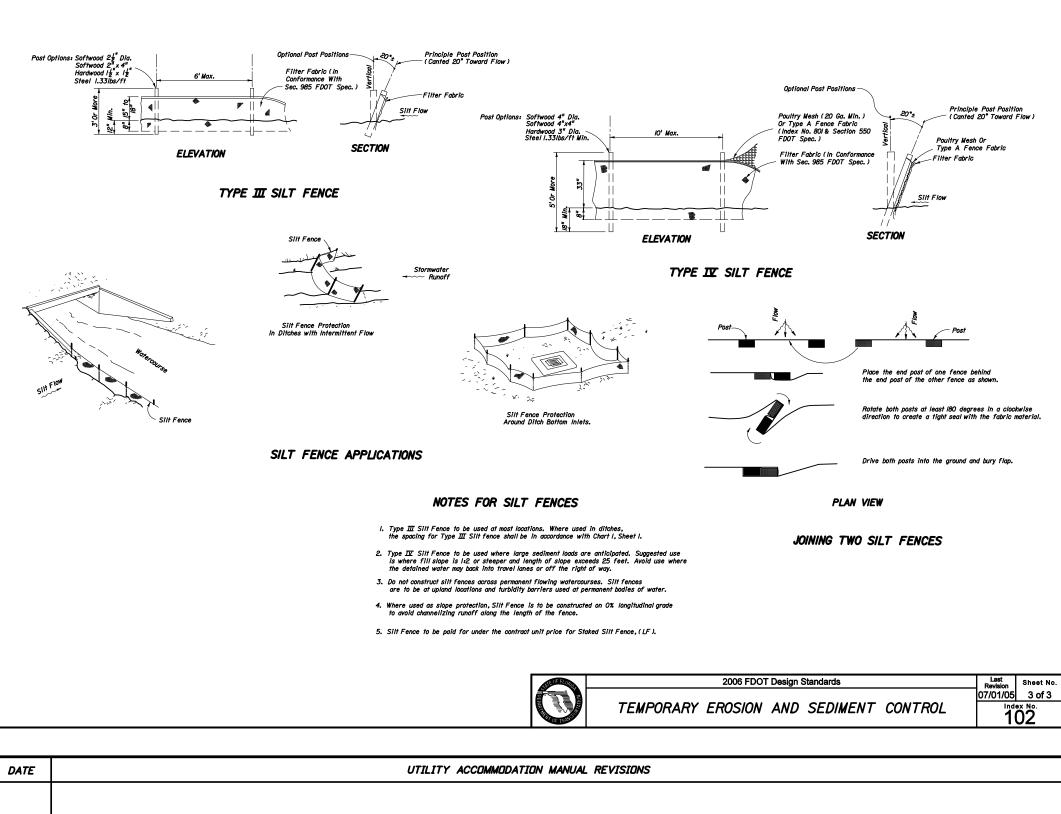


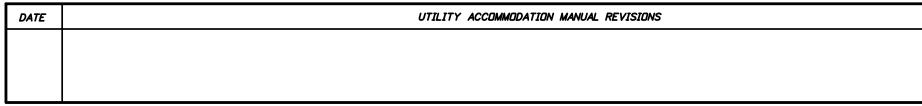


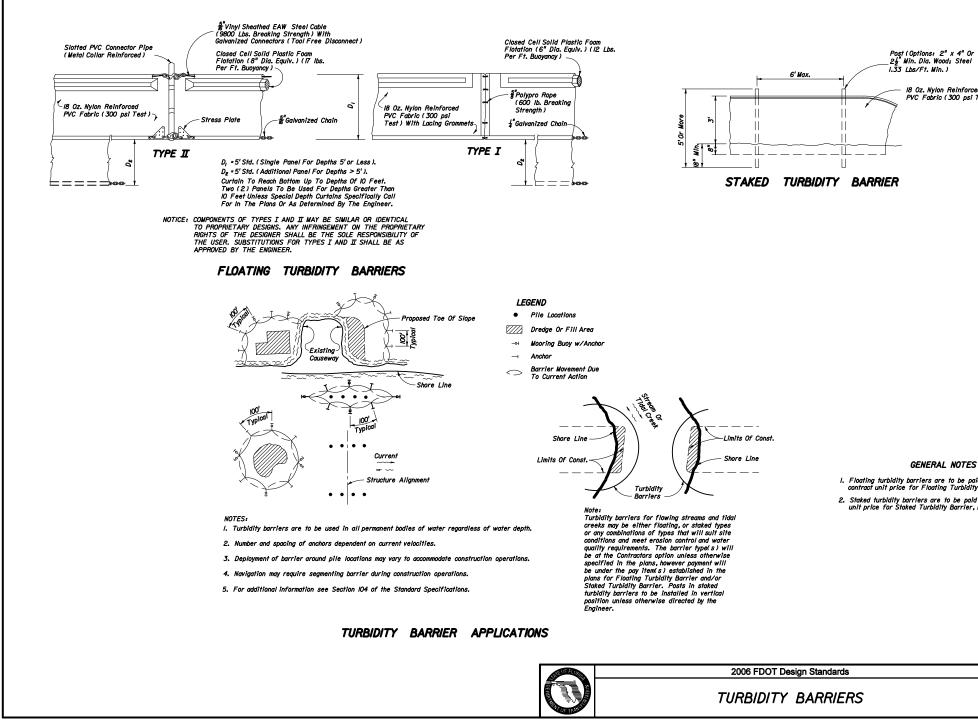
DATE	UTILITY ACCOMMODATION MA	ANUAL REVISIONS
01/01/07	"BARRIER FOR PAVED DITCH " is deleted and "SYNTHETIC BALE AND BALE TYPE BARRIER FOR PAVED DITCH " substituted. "BARRIERS FOR UNPAVED DITCHES" is deleted and "SYNTHETIC BALES OR BALE TYPE BARRIERS FOR UNPAVED DITCHES" is substituted. "NOTES FOR BALED HAY OR STRAW BARRIERS" is deleted and "NOTES FOR SYNTHETIC BALES AND BALE TYPE BARRIERS" is substituted. Note I is deleted and the following substituted: " I. Type I synthetic barrier should be spaced in accordance with Chart I on Sheet I. "	Note 2, delete the word "Hay". Note 4, delete the second sentence. Note 5 is deleted and the following substituted: "5. Where used in conjunction with silt fence, bal side of the fence." Note 6 is deleted and the following substituted: "6. Bales to be paid for under the contract unit pr unit price shall include the cost of filter fabric for Type I Barrier. Sand bags shall be paid for under CY. Rock bags to be paid for under the contract unit price for Rock Bags, EA.

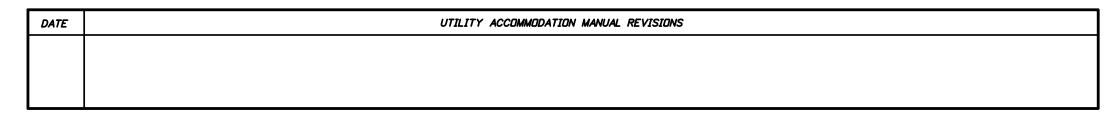
bales shall be placed on the upstream

price for Synthetic Bales, LF. The derived for the contract unit price for Sandbagging,







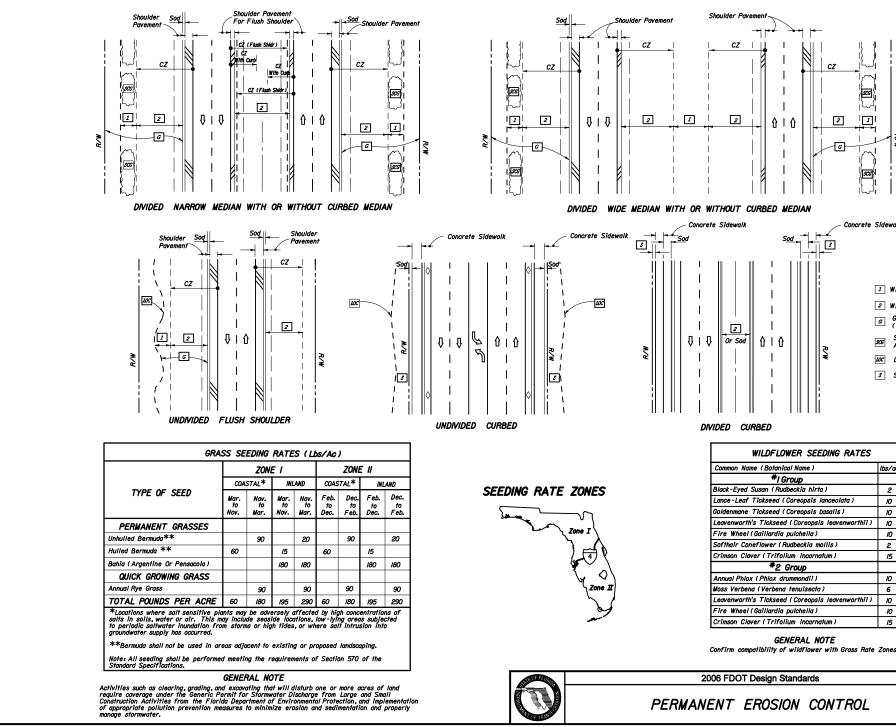


18 Oz. Nylon Reinforced PVC Fabric (300 psi Test)

GENERAL NOTES

 Floating turbidity barriers are to be paid for under the contract unit price for Floating Turbidity Barrier, LF. Staked turbidity barriers are to be paid for under the contract unit price for Staked Turbidity Barrier, LF.

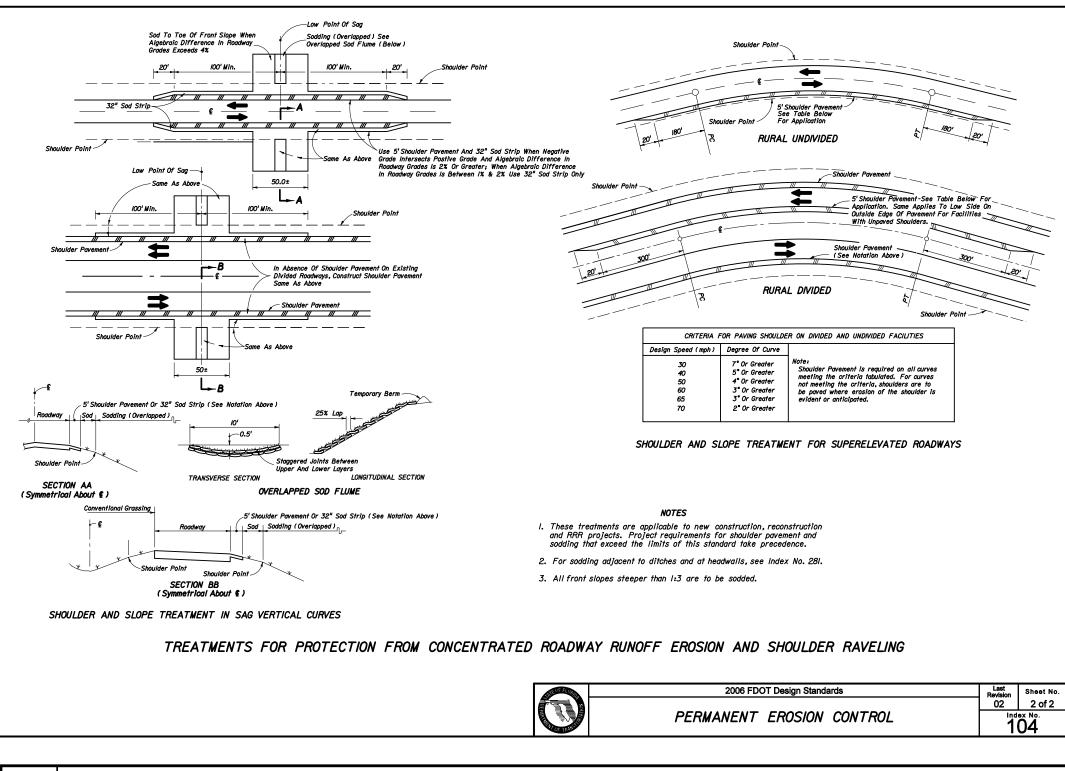
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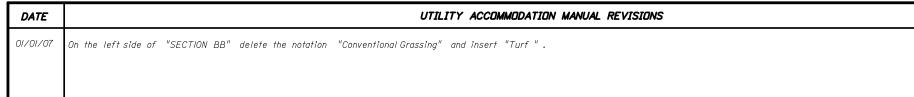


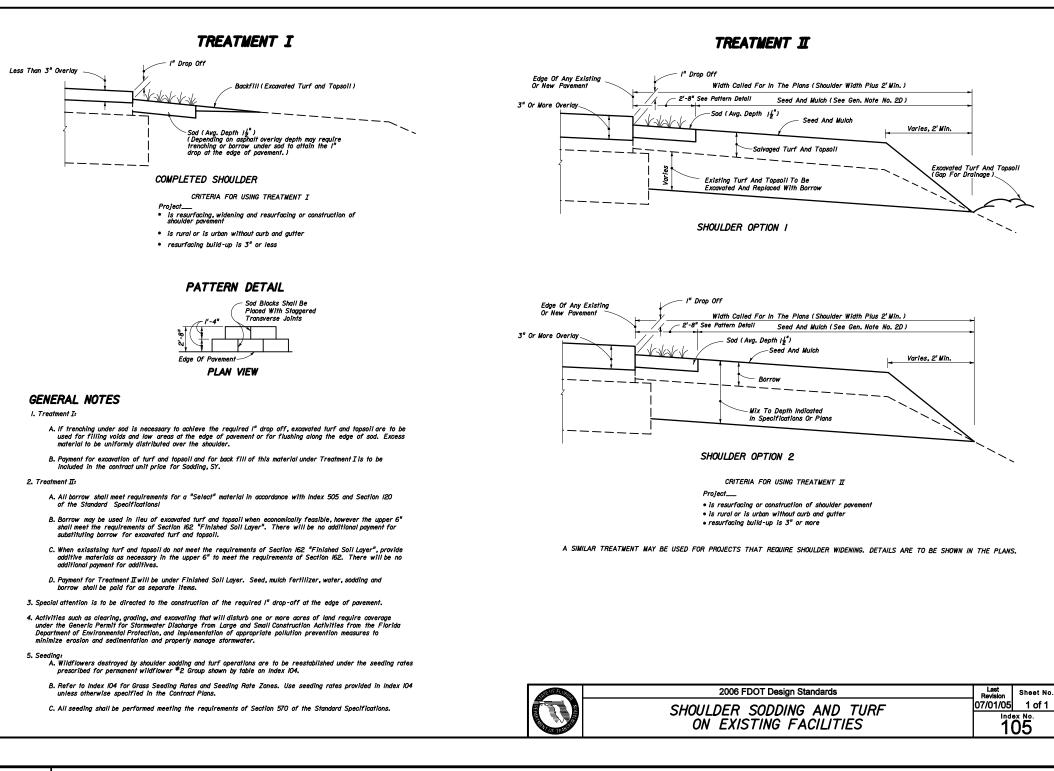
DATE	UTILITY ACCOMMODATIO	ON MANUAL REVISIONS
01/01/07	Under the "WILDFLOWER SEEDING RATES" chart add the following footnote: "Wildflower seeding rates are for restoring impacted wildflower areas."	Above the "GENERAL NOTE" insert the following: "NOTE: All turf establis meeting the requirements of Section 570 of the Standard Specifications".
	Under the "LEGEND", by symbol "G", delete " Grass Seed / Seed & Mulch" and insert "Turf" .	
	By symbol "S", delete "Seed, Seed and Mulch, Sod or Seed, Sod" and insert "Turf".	
	Delete the "GRASS SEEDING RATES" table.	

valk LEGEND Wildflower Group *1 Wildflower Group *2 Grass-Seed/Seed & Mulch (To Limit of Construction) Selective Clearing And Grubbing Limits Of Construction Seed, Seed And Mulch, Sod Or Seed, Sod (ac 2) 2) 5 65. (ac 2) 5 65. (b) 1 of 2 Index No. 104			
valk LEGEND Wildflower Group *1 Wildflower Group *2 Grass-Seed/Seed & Mulch (To Limit of Construction) Selective Clearing And Grubbing Limits Of Construction Seed, Seed And Mulch, Sod Or Seed, Sod	i		
valk LEGEND Wildflower Group #1 Wildflower Group #2 Grass-Seed/Seed & Mulch (To Limit of Construction) Selective Clearing And Grubbing Limits Of Construction Seed, Seed And Mulch, Sod Or Seed, Sod			
Wildflower Group *1 Wildflower Group *2 Grass-Seed/Seed & Mulch (To Limit of Construction) Selective Clearing And Grubbing Limits Of Construction Seed, Seed And Mulch, Sod Or Seed, Sod			
es.	Wildflower Group #/ Wildflower Group #2 Grass-Seed/Seed & (To Limit of Constr Selective Clearing And Grubbing Limits Of Construct	Mulch uction) ion	eed, Sod
es. Last Revision 07/01/05 1 of 2 Index No.	2 2 2 2 2 2 2 2		
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lishment shall be performed



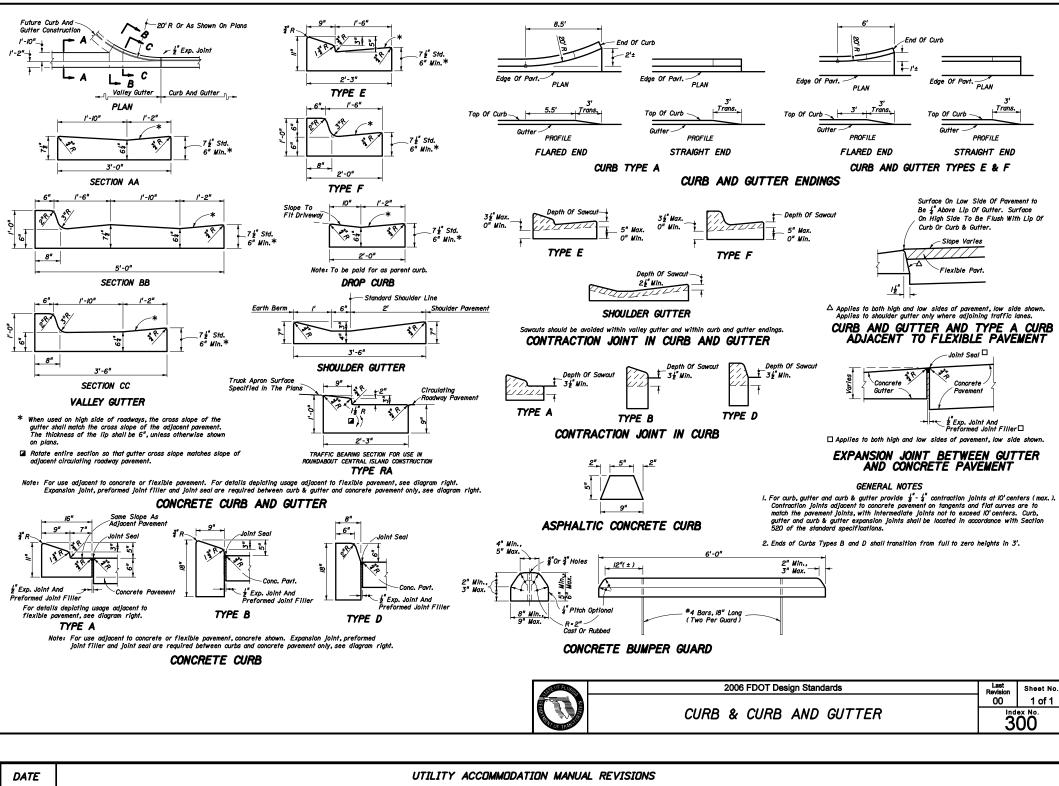


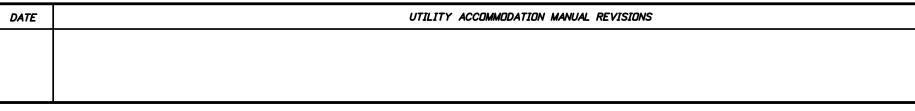


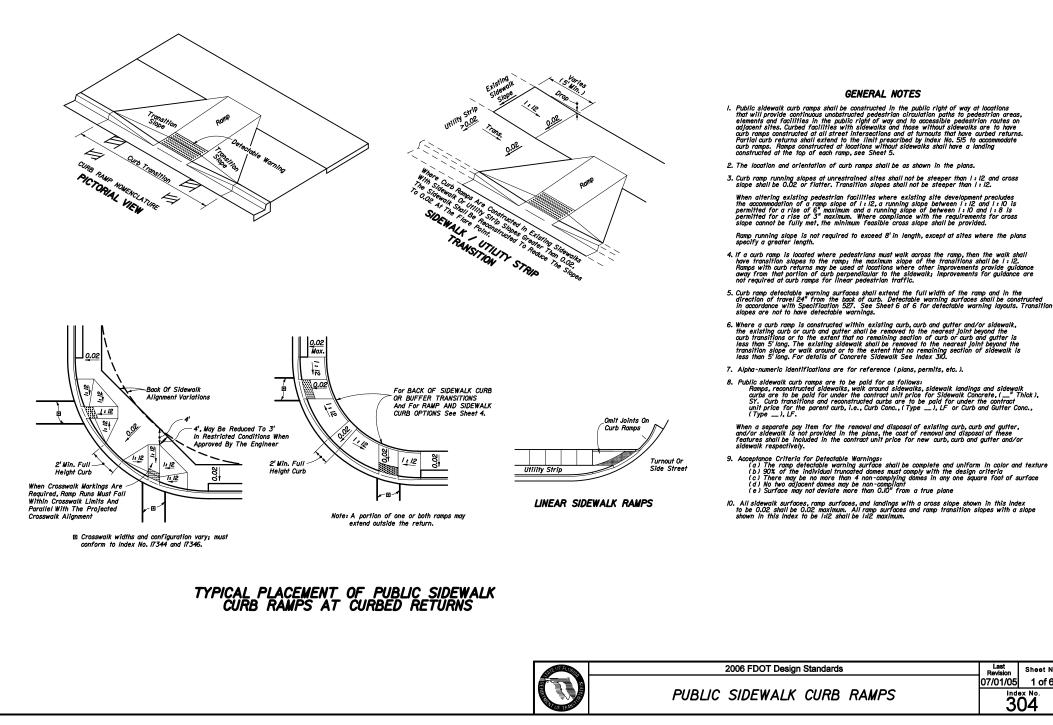
Γ	DATE	UTILITY ACCOMMODATION MANUAL REVISIONS	
C		"TREATMENT I", add width dimension of the sod strip as "2 5/32 -8" " and the note "See Pattern Detail". "TREATMENT II", "SHOULDER OPTION I" and "SHOULDER OPTION II", delete notations "Seed And Mulch" and insert "Turf". "GENERAL NOTES", note "IB", delete the text of the note and substitute the following: "Payment for the sod, excavation of turf and topsoil and for back fill of this material under Treatment I is to be included in the contract unit price for Performance Turf, SY." Note "2 D", delete the second sentence and insert the following: "Sod and other materials for turf establishment shall be paid for as Performance Turf, SY".	Note "5", delete "Seeding" and insert "Tu Note "5 B", delete the note. Note "5 C", renumber as "5 B". Also der "turf establishment".



delete "seeding" and insert



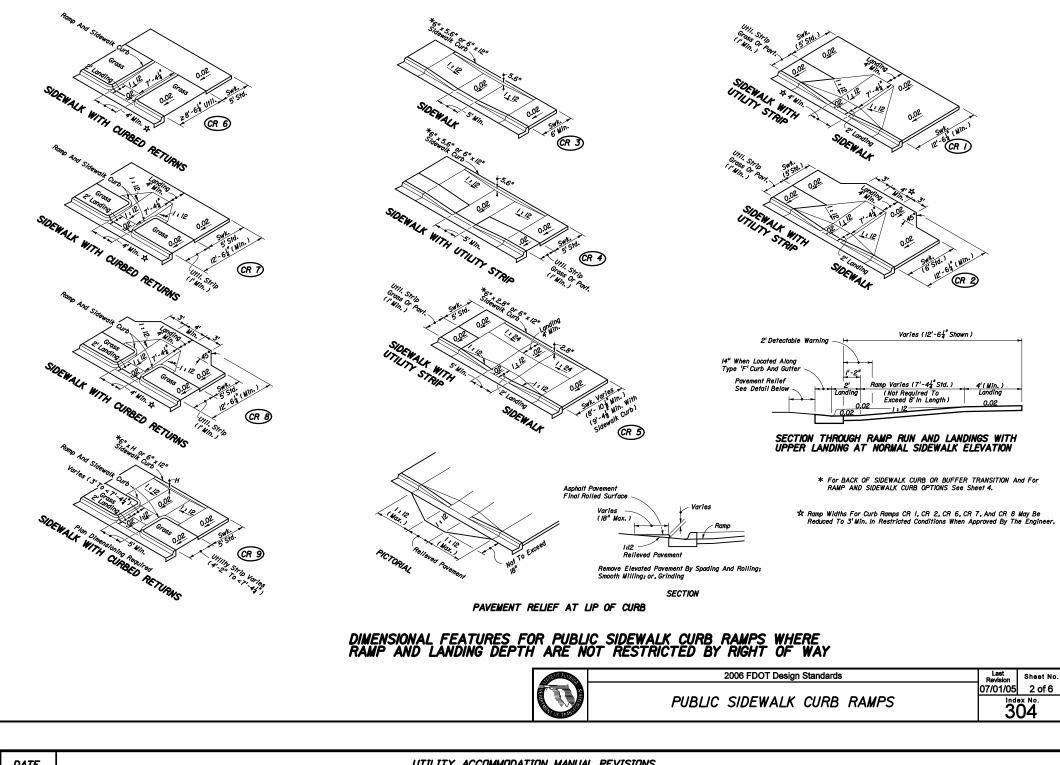


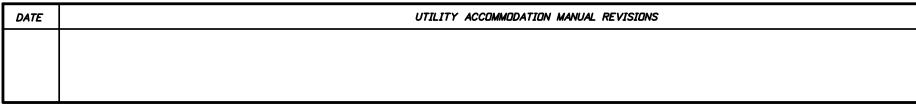


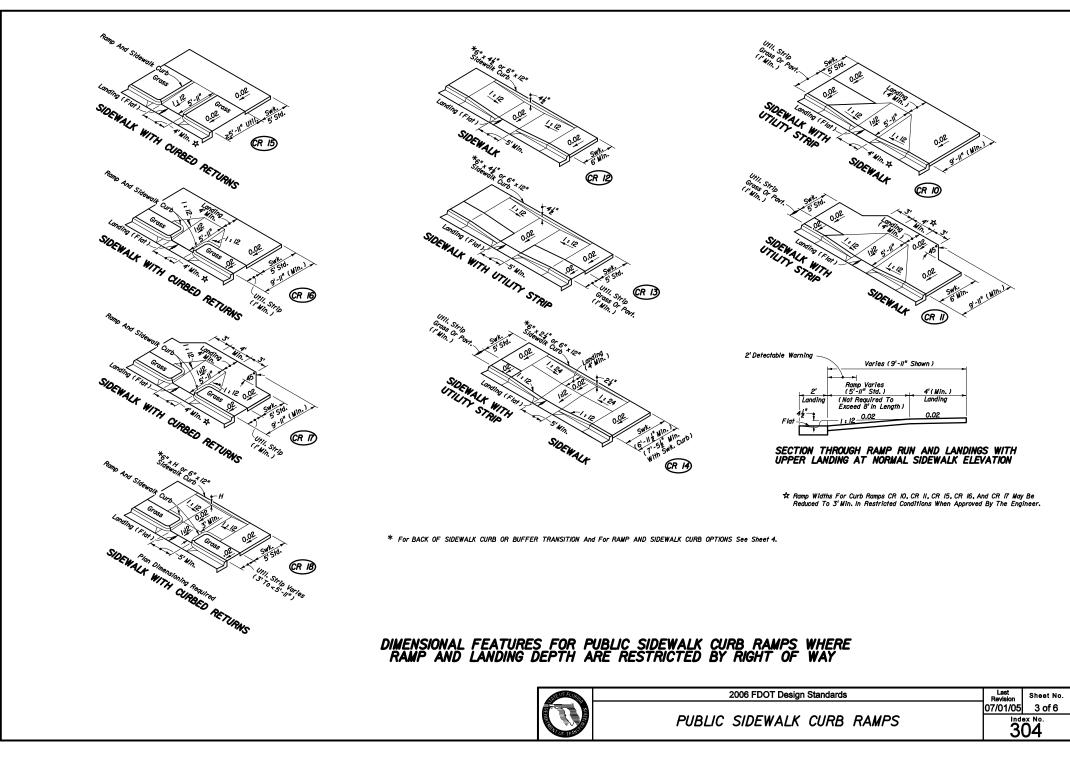
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01/0.		Detail in lower left corner, the note "When crosswalk markings " is deleted and the following note substituted: "When crosswalk markings are required, ramp runs must fall within cr limits and where practical, be parallel with the projected crosswalk alignment. The bottom of the ramp beyond the curb line shall have a clear space 48" minimum within the markings of a crosswalk. If no crosswalk markings are present, the bottom of the ramp beyond the curb ramp shall have a clear space 48" minimum vithin the markings of a n crosswalk. If no crosswalk markings are present, the bottom of the ramp beyond the curb ramp shall have a clear space 48" minimum outside active traffic lanes."

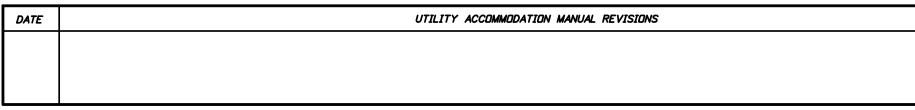
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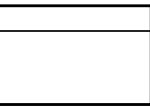
crosswalk marked		

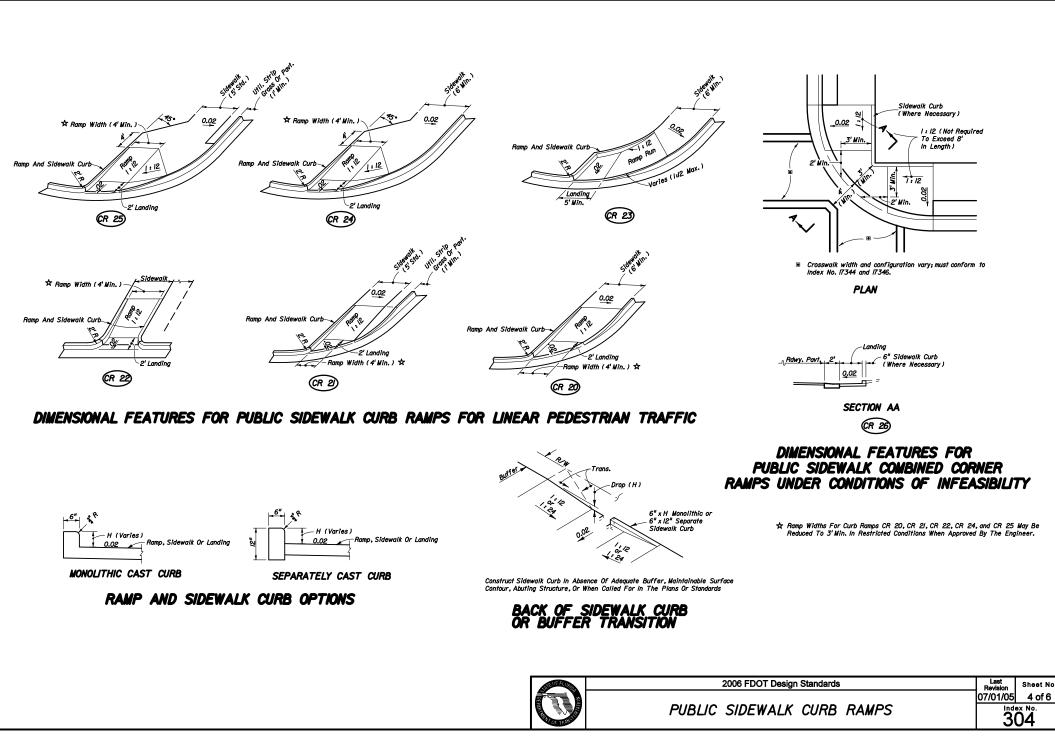


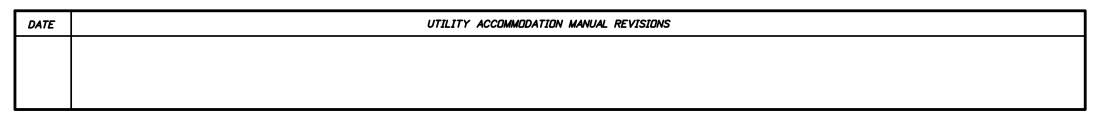




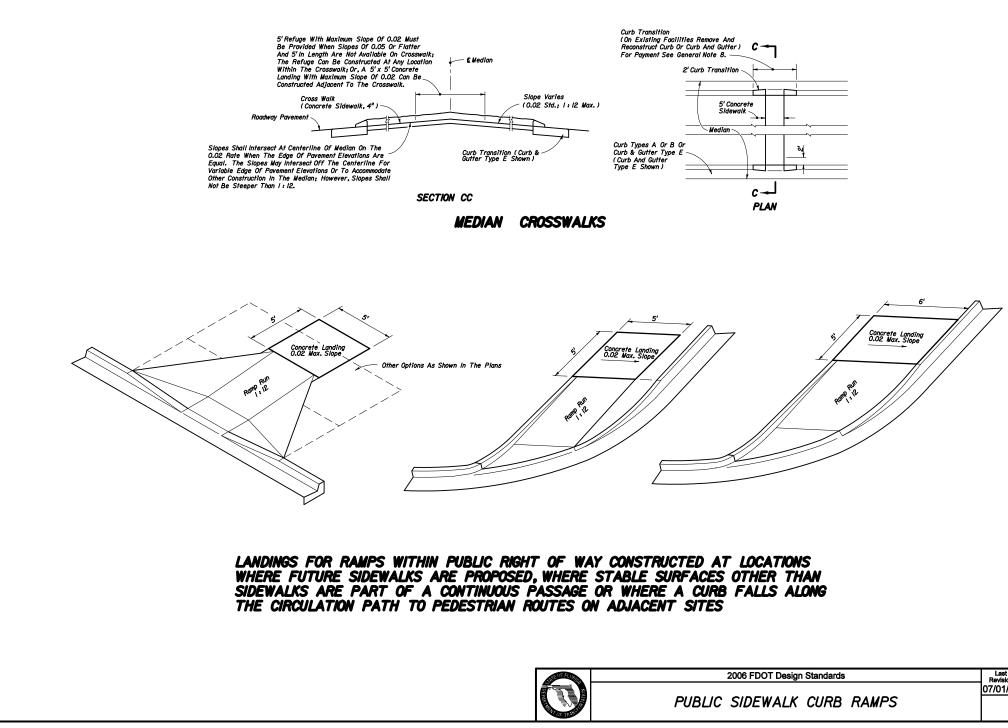


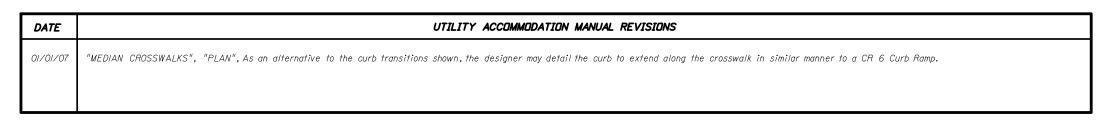




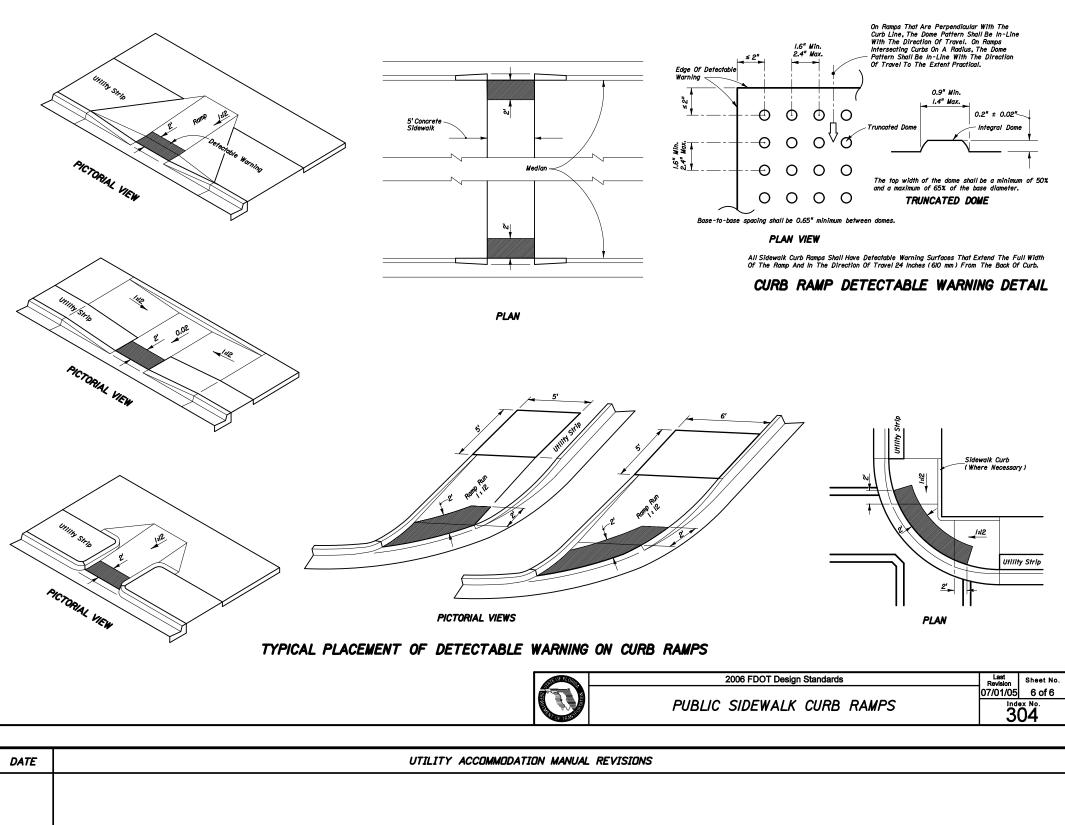


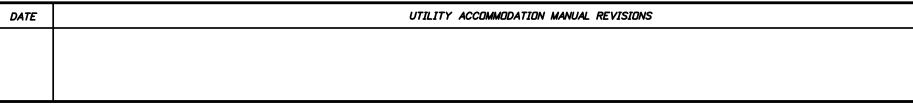
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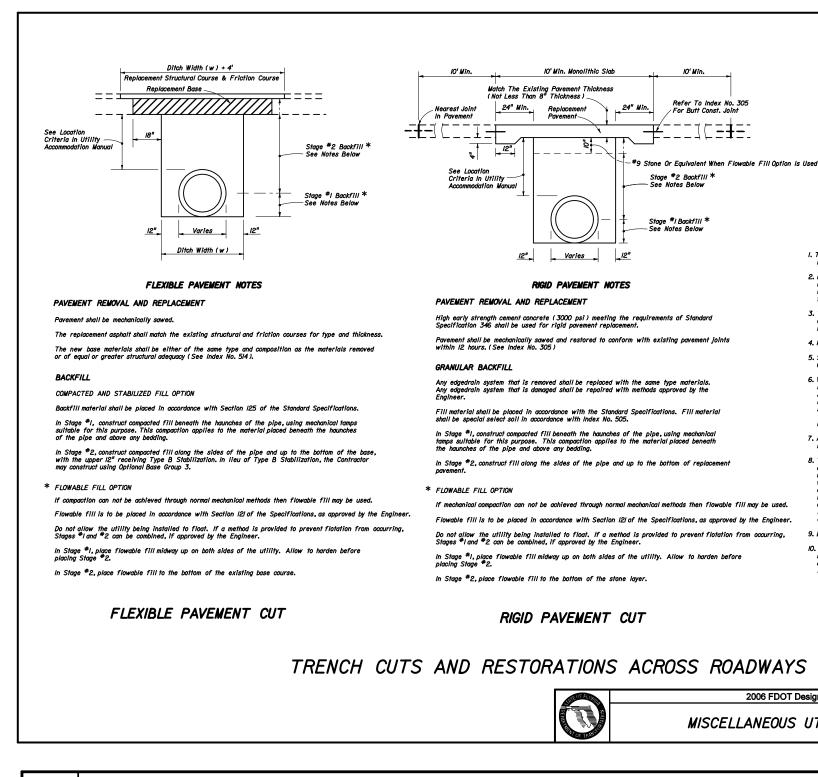




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The details provided in this standard index apply to cases in which jack and bore or directional boring methods are not required by the Engineer.

10' Min.

- 3. These details do not apply to utility cuts longitudinal to the centerline of the roadway which may require the additional use of geotextiles, special bedding and backfill, or other special requirements.
- 4. Method of construction must be approved by the Engineer.
- 6. Where asphalt concrete overlays exist over full slab concrete pavement, the replacement pavement shall have an overlay constructed over the replacemen slab. The overlay shall match the existing asphalt pavement thickness. The replacement friction course shall match the existing friction course, except structural course may be used in lieu of dense graded friction course.

- 8. The use of flowable fill to reduce the time traffic is taken off a facility is acceptable but must have prior approval by the Engineer. Flowable fill use is allowed only when properly engineered for pavement crossings, whether stroight or diagonal, and shall not be installed for significant depths or lengths. The maximum length shall be fifty (50) feet and a maximum depth of six (6) feet unless supported by an engineering document prepared by a registered professional engineer that specializes in soils engineering. The engineering document shall address the evaluation of local groundwater flow interruption and settlement potential.

10. When approved by the Engineer, in lieu of the pavement and base, non-excavatable flowable fill may be used for manhole stabilization and ring and cover adjustments. Excavatable flowable fill shall not be used within the limits of the pavement and base.

2006 FDOT Design Standards MISCELLANEOUS UTILITY DETAILS

DATE

UTILITY ACCOMMODATION MANUAL REVISIONS

GENERAL NOTES

2. Flowable fill shall not be placed directly over loose, or high plastic, or muck material (see Index 505) which will cause settlement due to fill weight. Where highly compressible material exists, the amount, shape and depth of flowable fill must be engineered to prevent pavement settlement.

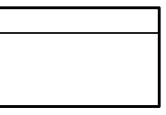
5. Some pipe may require special granular backfill up to 6" above top of pipe. Geotextiles may be required to encapsulate the special granular material.

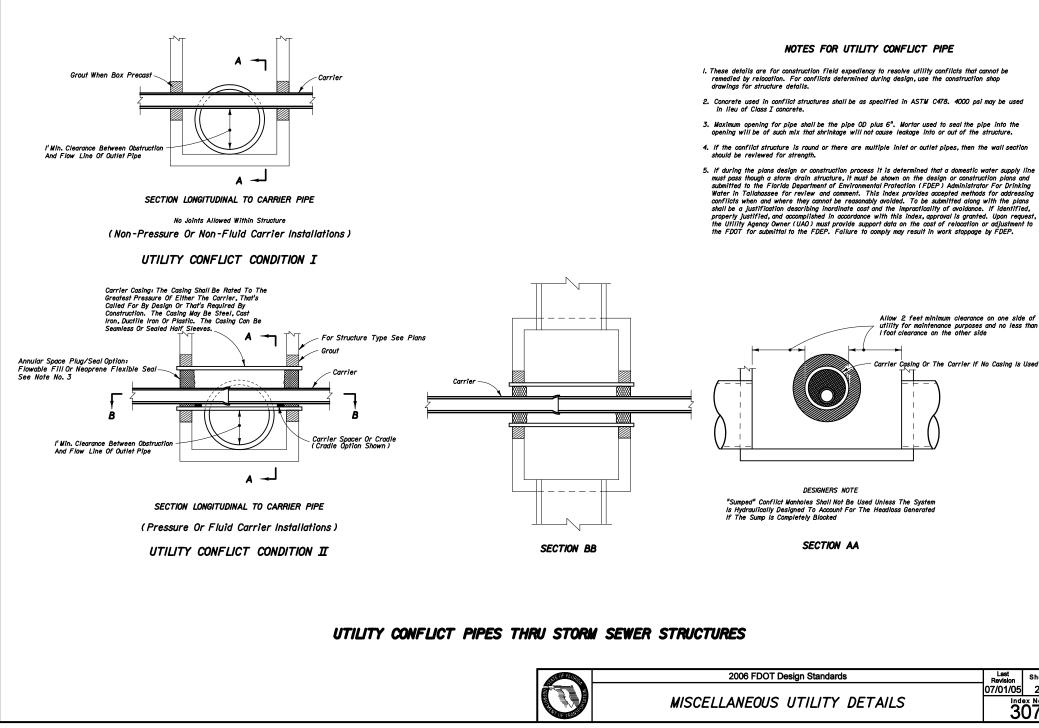
Existing broken and seated pavements shall be treated as flexible pave

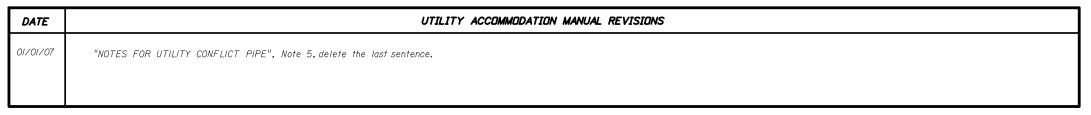
7. All shoulder pavement, curb, curb and gutter, and their substructure disturbed by utility trench cut construction shall be restored in kind.

9. Excavatable flowable fill is to be used when the flowable fill option is selected.

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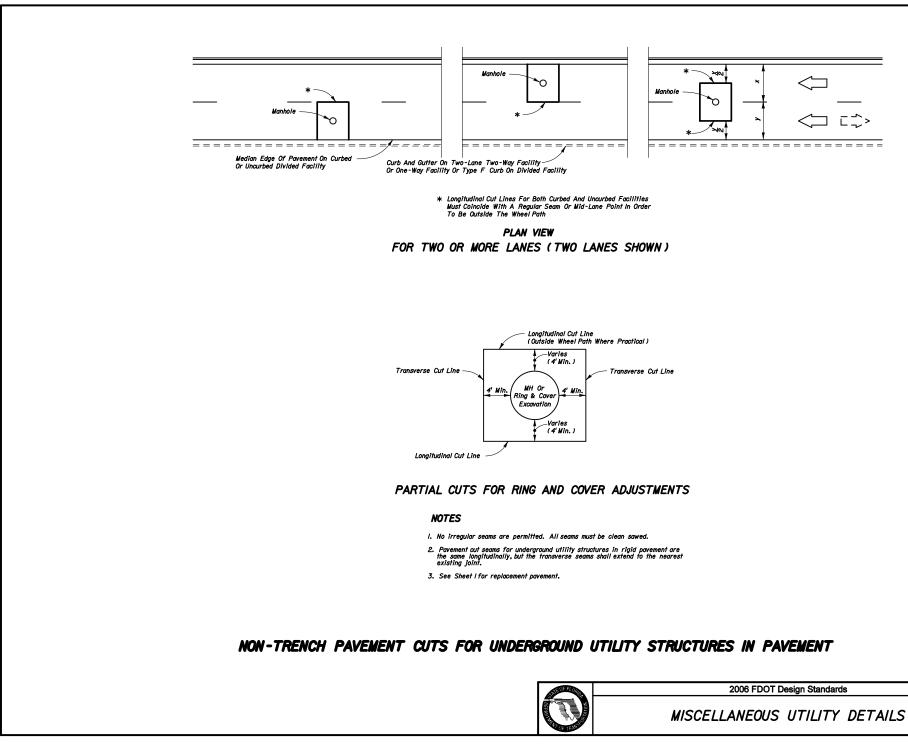




Allow 2 feet minimum clearance on one side of utility for maintenance purposes and no less than I foot clearance on the other side

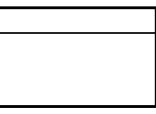
ng Or The Carrier If No Casing Is Used

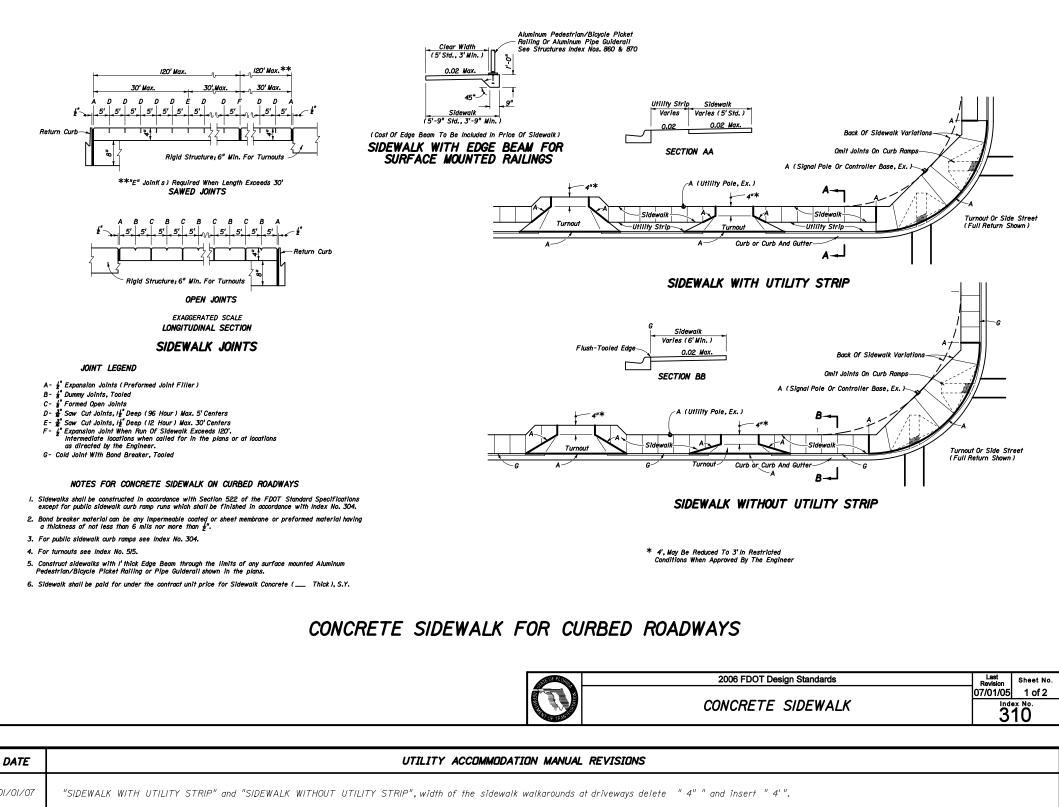
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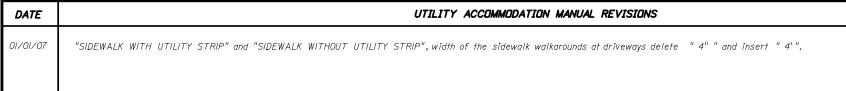


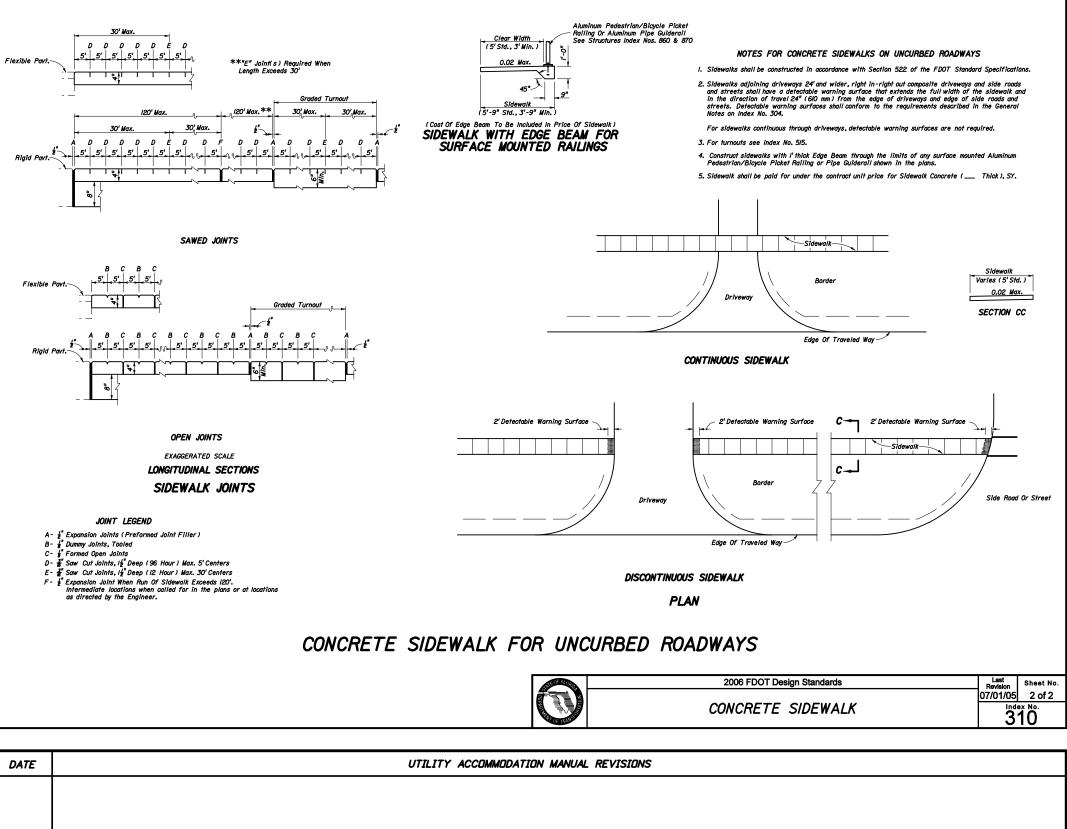
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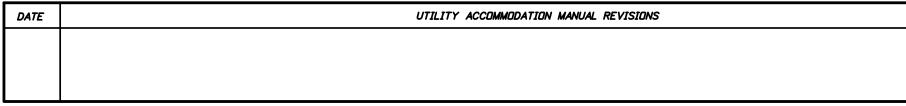
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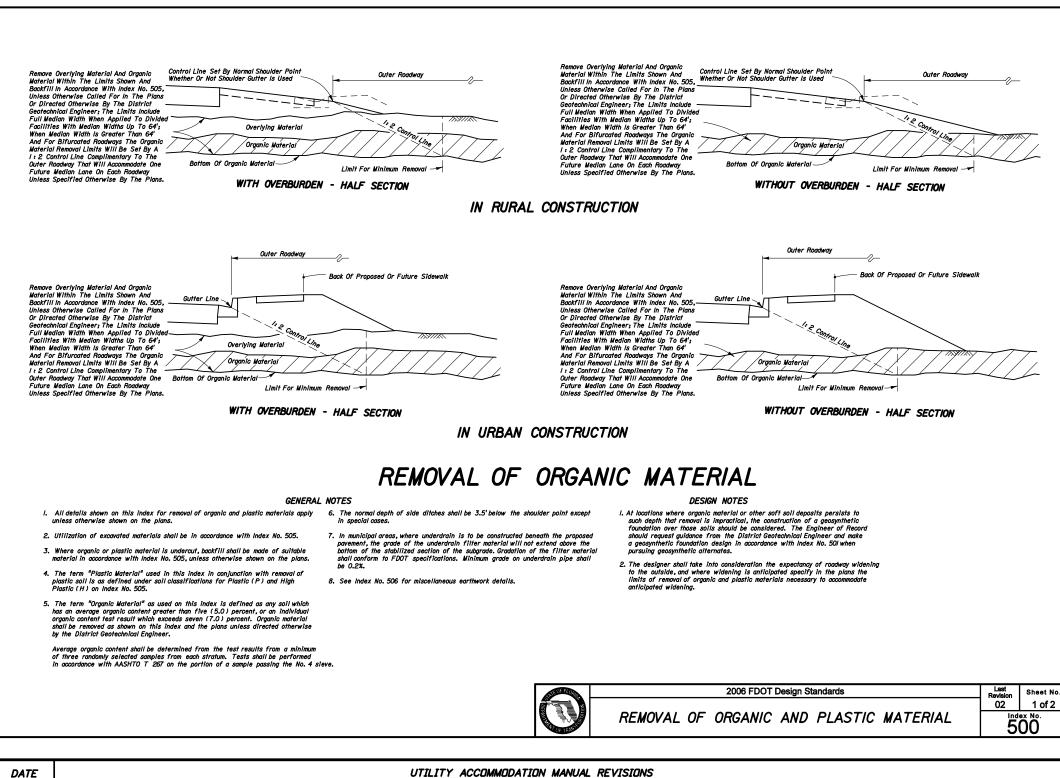




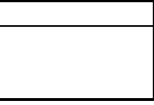




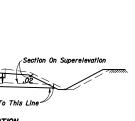




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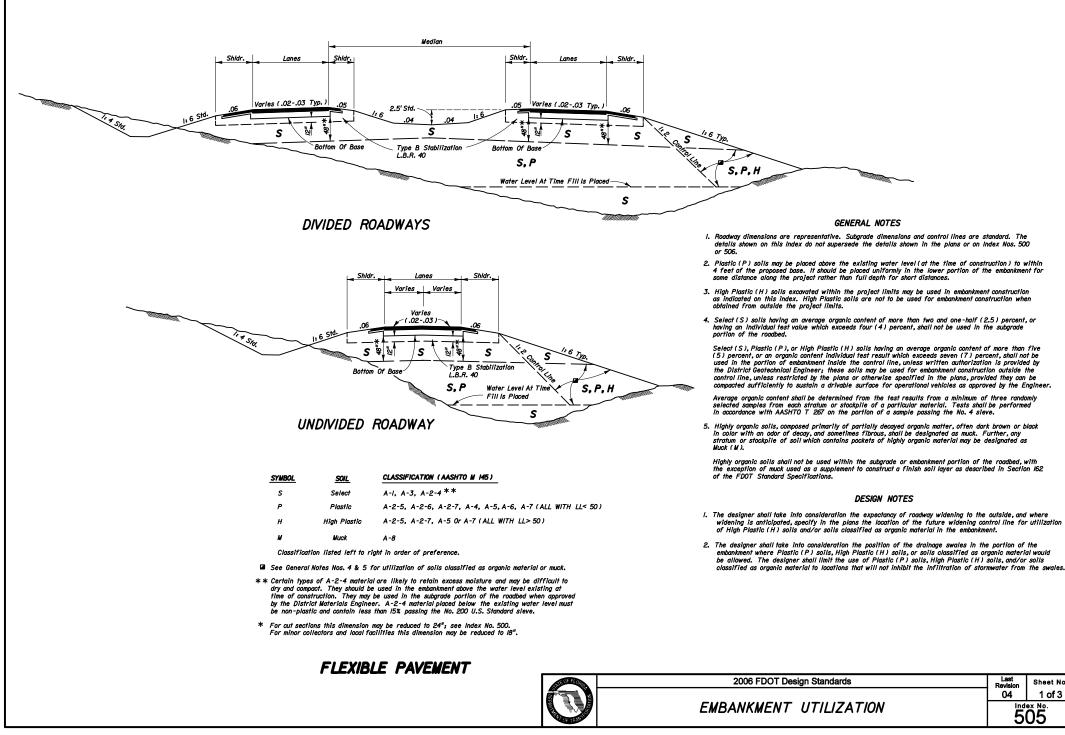


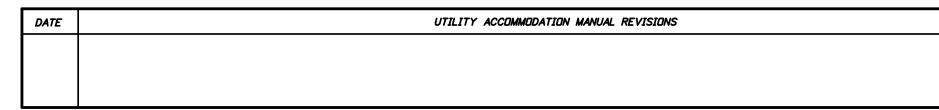
__ Cut Limit For Minimum Removal Of Plastic Material ,12" Inner And Outer Cut Limit For Preferable Removal Of Plastic Material. Where Preferable Method Of Removal Governs And It Is Impossible To Place The Underdrain At The Outer Cut Limit Due To Conflict With Storm Sewer Mains, Remove To Inner Limit And Place Underdrain At Location Shown For Minimum Removal. Undercut Line Section On Tangent Gutter Line At locations where plastic material is being removed, the side ditches must be at least as deep as the undercut plane. 24" Where paved side ditches are used in areas of removal of plastic material, the top of the ditch pavement must be no higher than the undercut plane. .02 1 emove Plastic Material To This Line 5<u>4</u>6 Extended Undercut Slope When Underdrain Located At Outer Control Line Limit -j⊇ MISCELLANEOUS DETAILS Remove Plastic Material To-This Line. See Note*. TYPICAL CUT SECTION "<u>|/'-6"</u> Note: When this detail is applied to minor collectors and local facilities, the undercut may be reduced to I8". ~ 0.02 Underout Backslope When Underdrain Located At Back Of Curb Underdrain, See Index No. 286 Minimum Grade On Underdrain Pipe Shall Be 0.2%. 6"__ REMOVAL OF PLASTIC MATERIAL ON DIVIDED FREEWAYS, ARTERIALS AND MAJOR COLLECTORS HAVING FLUSH MEDIANS, AND, ON UNDIVIDED ARTERIALS AND MAJOR COLLECTORS HALF SECTION 24" 24" 2 NOTES: Refer to roadway cross sections to determine whether minimum or preferable removal is used. move Plastic Material To This Line *Where frequency of median breaks indicates that it is impractical to leave plastic material in the median, the designer may elect to indicate total removal of this material. If during construction it becomes apparent, due to normal required construction procedures, that it is impractical to leave the plastic material in the median, total removal of this material shall be approved by the Engineer. TYPICAL CUT SECTION ON TANGENT .02 24" 1. REMOVAL OF PLASTIC MATERIAL AND LOCATION OF UNDERDRAIN IN URBAN CONSTRUCTION 24"1 Remove Plastic Material To This Line TYPICAL CUT SECTION ON SUPERELEVATION REMOVAL OF PLASTIC MATERIAL ON INTERSTATE FACILITIES, FREEWAYS, DIVIDED ARTERIALS AND MAJOR COLLECTORS HAVING DEPRESSED MEDIANS REMOVAL OF PLASTIC MATERIAL Note: For GENERAL NOTES see Sheet I. 2006 FDOT Design Standards REMOVAL OF ORGANIC AND PLASTIC MATER UTILITY ACCOMMODATION MANUAL REVISIONS DATE



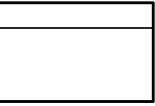


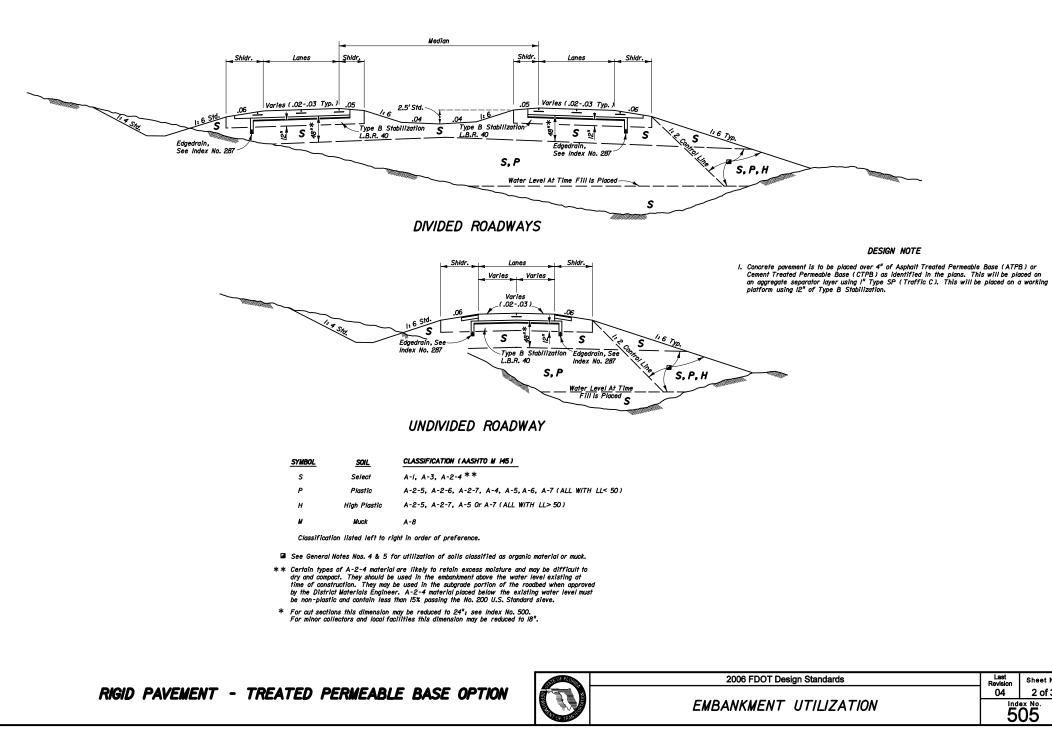
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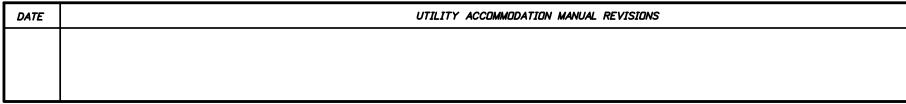




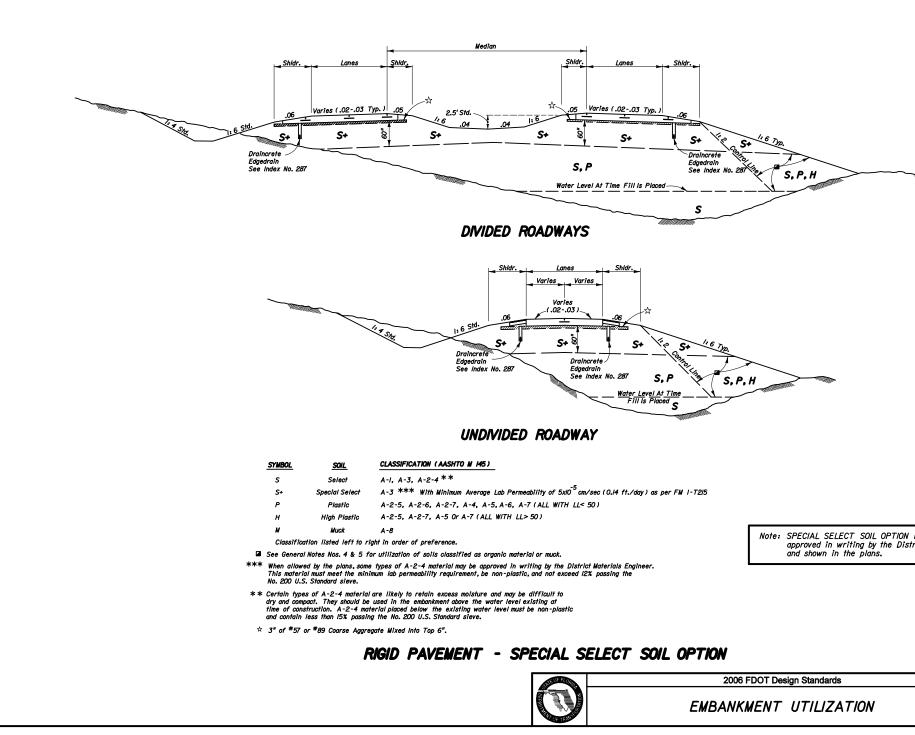
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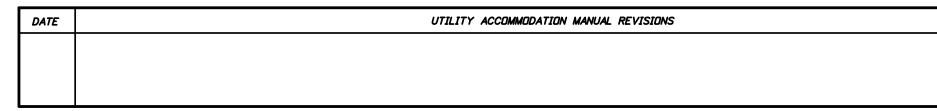






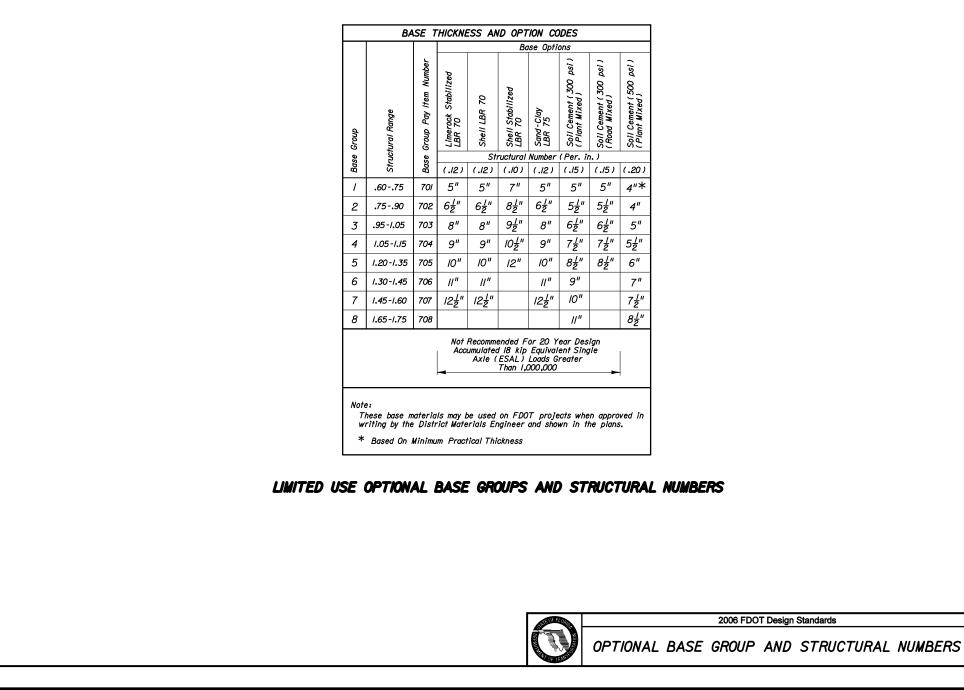
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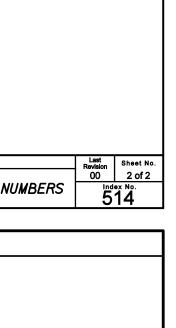
may be used onl rict Materials En	y when	7
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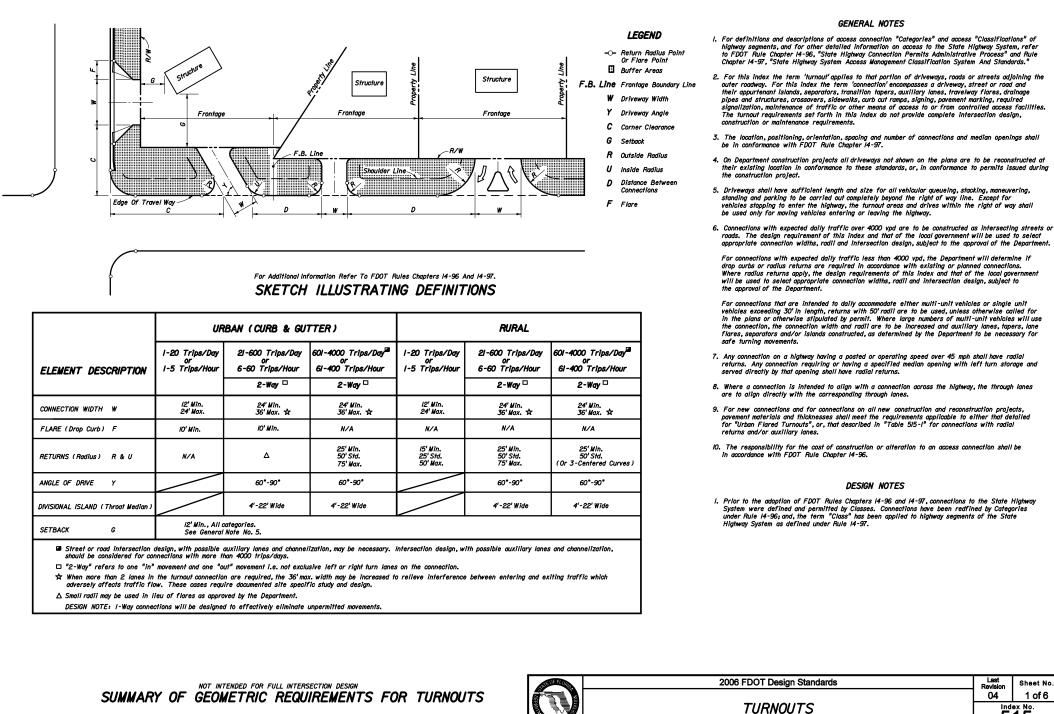
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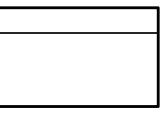
UTILITY ACCOMMODATION MANUAL REVISIONS

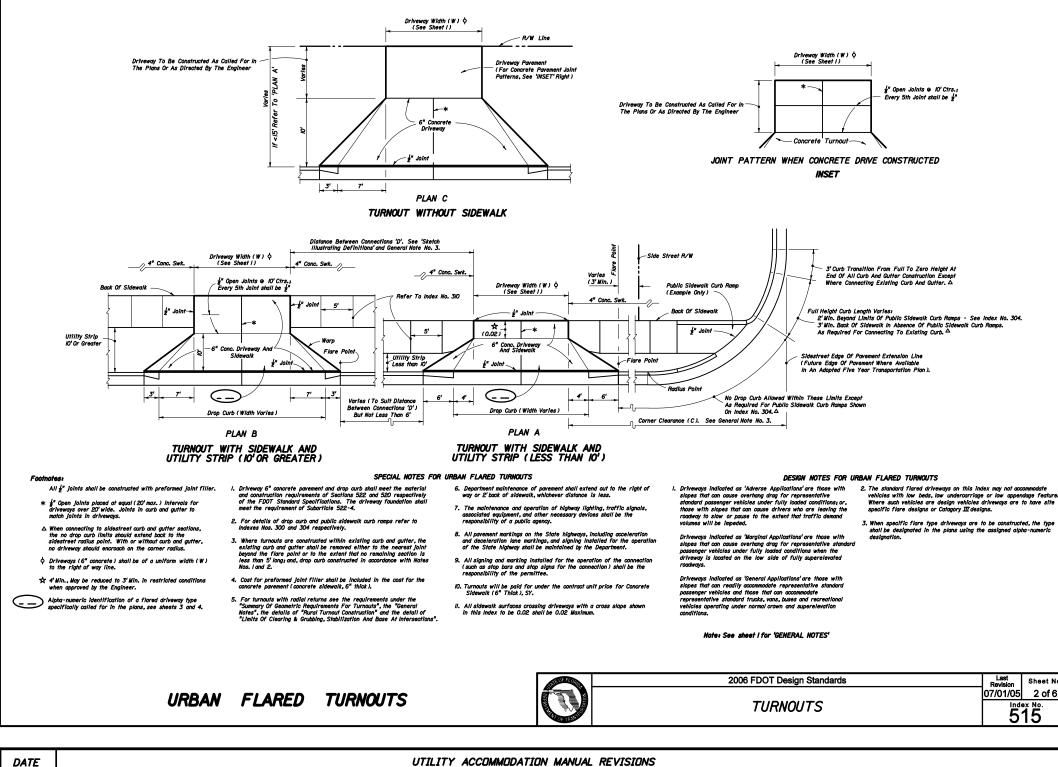




DATE UTILITY ACCOMMODATION MANUAL REVISIONS "GENERAL NOTES", Note 7, delete the first sentence. 01/01/0

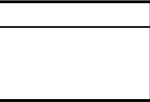
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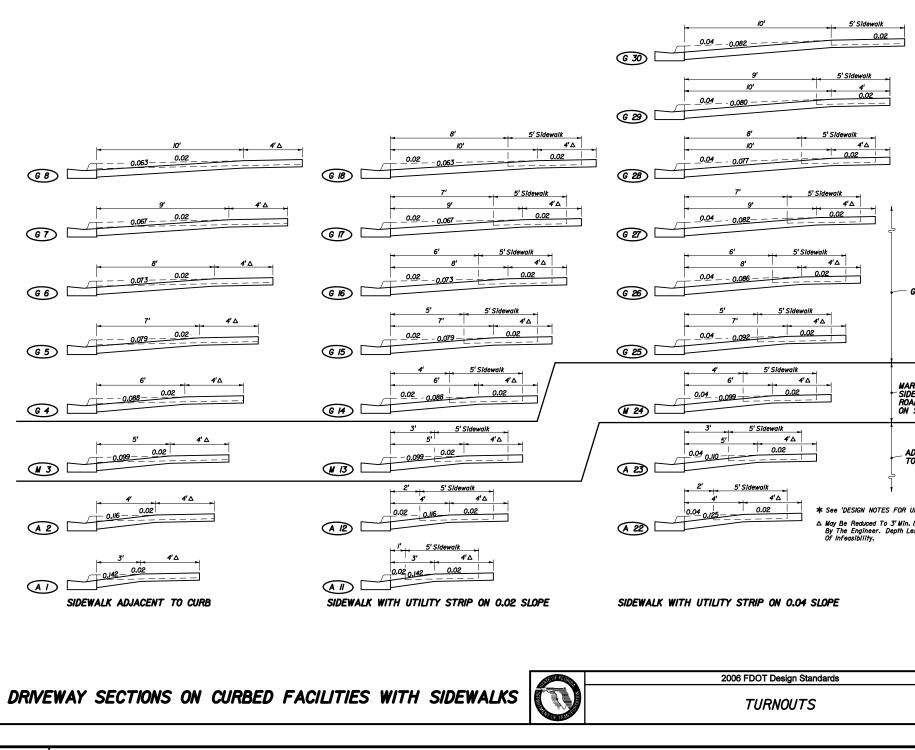


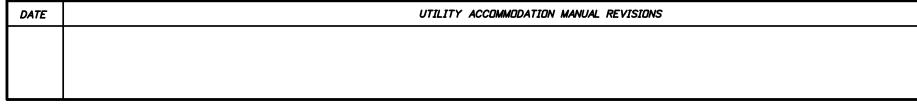


When specific flare type driveways are to be constructed, the type shall be designated in the plans using the assigned alpha-numeric designation.

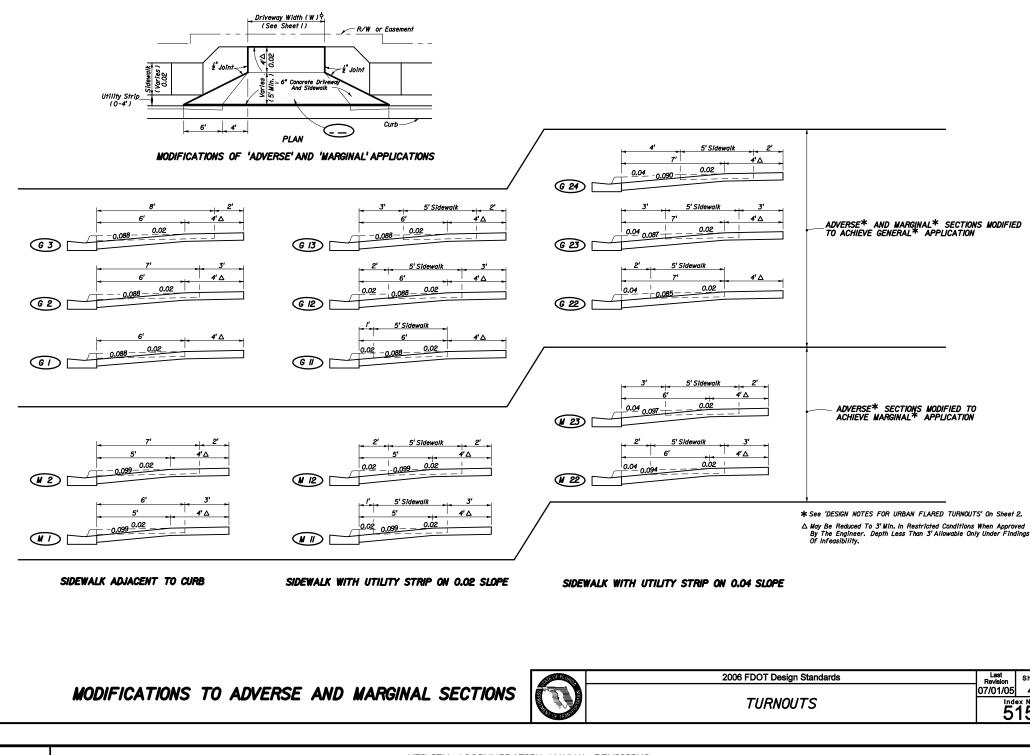
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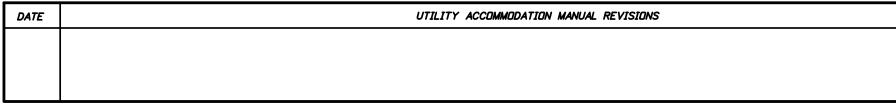






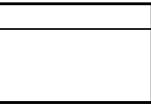
GENERAL* APPLICATIONS
RGINAL* APPLICATIONS ON LOW E OF FULLY SUPERELEVATED ADWAY (REFER TO MODIFICATIONS SHEET 4)
DVERSE* APPLICATIONS (REFER O MODIFICATIONS ON SHEET 4)
URBAN FLARED TURNOUTS' On Sheet 2.
In Restricted Conditions When Approved ess Than 3' Allowable Only Under Findings
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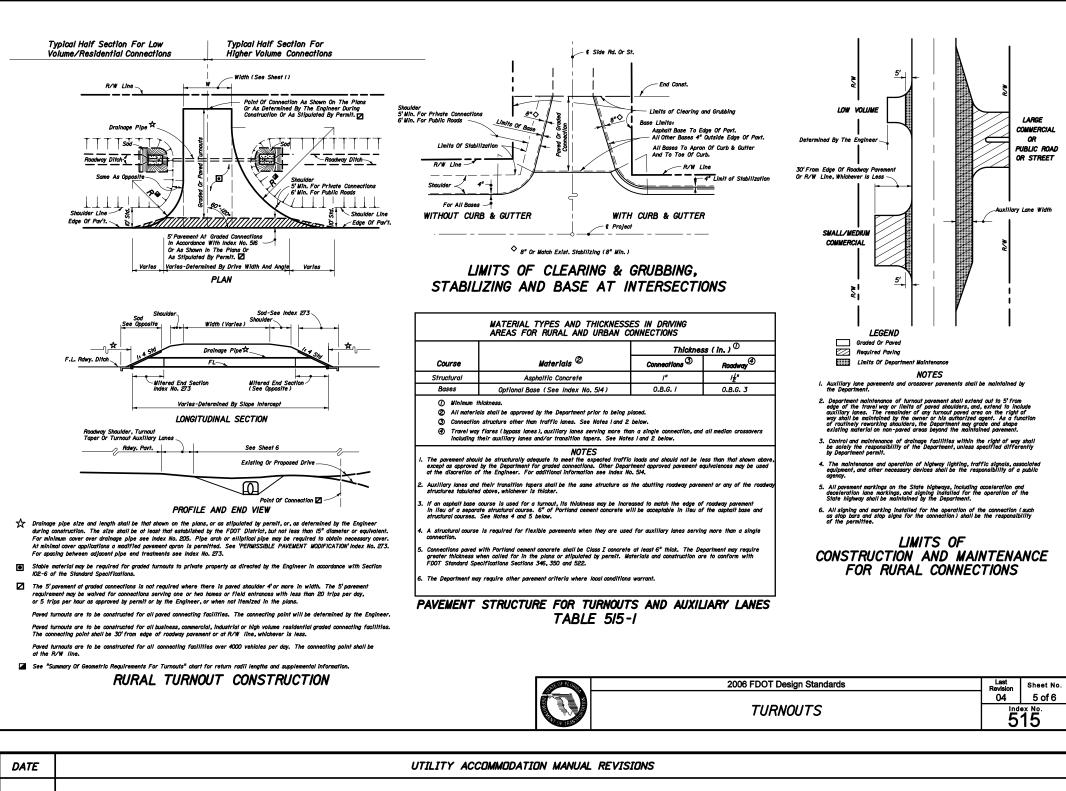




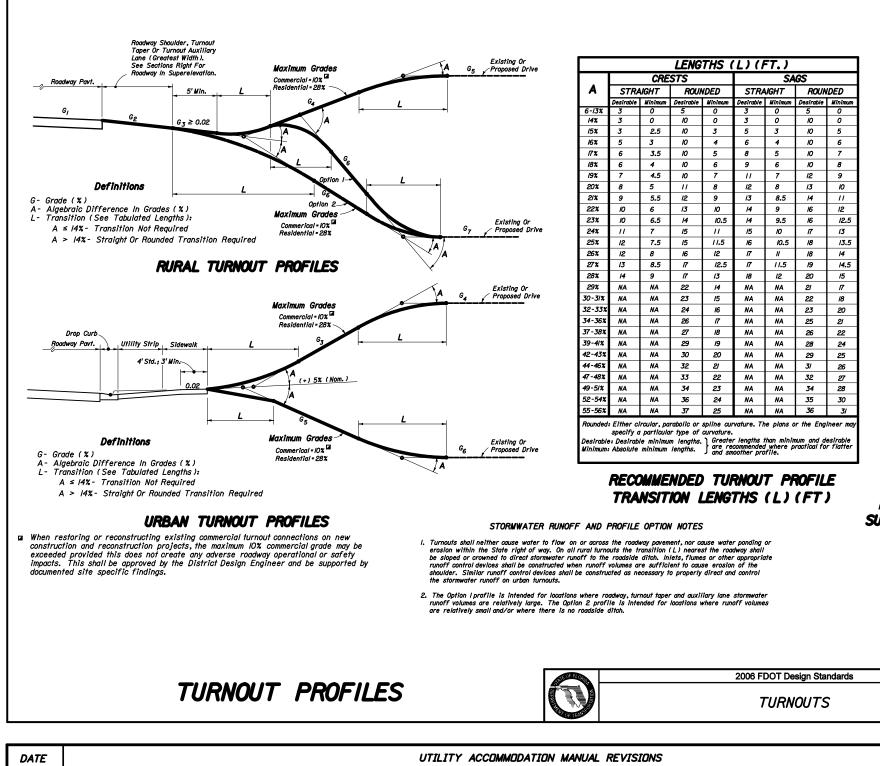
ADVERSE* AND MARGINAL* SECTIONS MODIFIED TO ACHIEVE GENERAL* APPLICATION

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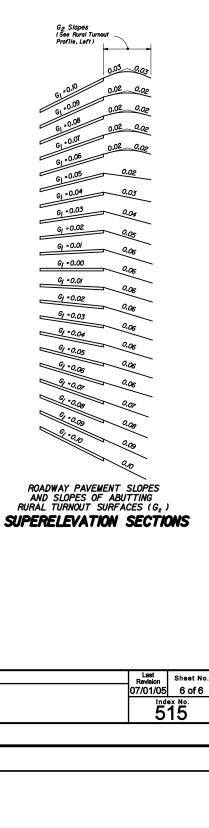




DATE	UTILITY ACCOMMODATION MANUAL REVISIONS



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	GENERAL	NOTES								DESIGN NOTES
etails apply to both rural and urba tersections see Design Note No	4.	, .	-	-				-		I. The information shown on this index is intended solely for the purpose of and maintenance at intersecting highways, roads and streets, and is not in establish roadway and roadside safety except as related to clear sight con- ditions with the down and for the purpose of the purpose.
ight distance (d) applies to norm nd/or horizontal curves are preser ne of the minor roadway to the c easured from the centerline of th n the major roadway. Distance d _m	nt. Sight distance (enter of the near of he entrance lane of	d) is meas approach la f the mino	asured alon ane (right or roadway	ng the major or left) of to a point of	r roadwo the ma on the	ay from f ajor roadw edge of :	the center vay. Dista the near :	^r of the entr inces d _L and side outer tr	ance d _r are affic lane	distance shall be documented for all intersections. 2. Details are based on the AASHTO 'A Policy On Geometric Design Of Higl CHAPTER 9, INTERSECTION SIGHT DISTANCE, CASES B and F, and Depai median openings (left turns from major roadways).
edian clear zone limit or horizonto	al clearance limit fo	or the far .	side road	way of the i	major ro	oadway.				 The minimum driver eye setback of I4.5¹ from the edge of the traveled w intersection leg only when justified by a documented, site specific field a
. The limits of clear sight define	e a corridor through	hout which	a clear si	ight window	must be	e preserv	red. See	WINDOW DE	AIL, Sheet 6.	position and driver eye position.
Clear sight must be provided bet	ween vehicles at in	ntersection	n stop loca	ations, and v	rehicles	on the r	major roaa	way within a	imension 'd'.	 For SIGNALIZED INTERSECTIONS sight distances should be developed base Intersections With Traffic Signal Control'. 'At signalized intersections, the
Since observations are made in respective pavements.	both directions alo	ng the line	ne of sight	t, the refere	ence da	ntum betw	reen roadv	vays is 3'-6'	above	approach should be visible to the driver of the first vehicle stopped on e Left-turning vehicles should have sufficient sight distance to select gaps complete left turns. Apart from these sight conditions, there are general departure sight triangles needed for signalized intersections.
arrier systems within intersection ast adverse affect practical.	n sight corridors, wl	here penet	tration int	to the sight	window	/ might oc	ccur, shall	be located i	o provide the	However, if the traffic signal is to be placed on two-way flashing operati major-road approaches and flashing red on the minor-road approaches) (
The corridor defined by the limits ad vehicles on the major roadway adgement, landscaping interferes w clocate or eliminate plantings. Pla	must be able to see with the line of sig	e each oth ht corridor	her clearly r prescribe	throughout ed by these	the limi standar	its of 'd' rds the E	and 'd _a '. 'ngineer m	lf in the En	gineers	conditions, then the appropriate departure sight triangles for Case B, both should be provided for the minor-road approaches. In addition, if right tu permitted from any approach, then the appropriate departure sight triangle should be provided to accommodate right turns from that approach.'
Ground Cover & Trunked Plan Ground Covers - Plant	ts (Separate or Con	mbined):								5. Where curvature, superelevation, adverse split profiles or other conditions tree sizes and spacing, proof of view and shadowing restraints must be a location of trees in medians detailed in the plans.
a hei For g below	ight greater than 18 ground cover in com v the sight line dat for sabal palms >11" ≤	" below th abination w tum will ap	he sight li with trees upply: 24"	ne datum. and palms; for trees a	the foll and palm	lowing he	ights			6. Intersection sight distance values are provided for Passenger Vehicles, Sl Vehicles. Intersection sight distance based on the Passenger Vehicle is s Where substantial volumes of heavy vehicles enter the major-road, such as stop control or roadways serving truck terminals, the use of tabulated valu
line d	serection of a maru I. Canopy or high bo atum. These select	orne foliag	ige shall në	f" or less m ever be low 1 no closer :	er than	5' above				Combination Vehicles should be considered.
ground line d Trees: Trees can be used with or other Department app 'WINDOW DETALL'modifi size and spacing shall co	I. Canopy or high bu atum. These select lawn; pavers; paven roved material. The ed to attain the he	orne foliag tions shall ment;grave e clear sign ight requir	ge shall ne be spaced el, bark or ght window rements lis lar values:	ever be lowe I no closer i wood chip l must be in sted in 'Grou	er than than 20 beds;gr confor und Cov	5'above)'. round cove rmance wi	the sight ers ith the		1	Combination Vehicles should be considered.
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Tine d Trees: Trees can be used with or other Department appi 'WINDOW DETALL' modifi size and spacing shall of Description Diameter (Within Limits Of Sight Window	L Canopy or high ba atum. These select lawn; pavers; paven roved material. The ed to attain the he ponform to the follo	orne foliag tions shall nent; grave clear sigu ight requir ight reduir 35	ige shall ne be spaced el, bark or ght window rements lis lar values: S 40	ever be low in o closer wood chip l must be in sted in 'Grow Speed (mph 45 (Inches)	er than 20 beds; gr confor und Cov	5' above y'. round cove rmance wi vers' above	the sight ers ith the e. Tree 55	60		Combination Vehicles should be considered.
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Appendix B Utility Design Standards

purpose of clear sight development ' is not intended to be used to sight corridors. An analysis of sight

gn Of Highways And Streets, 2001', and Department practices for channelized

traveled way may be adjusted on any ific field study of vehicle stopping

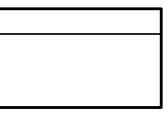
eloped based on AASHTO 'Case D-tections, the first vehicle stopped on one spped on each of the other approaches. sleet gaps in oncoming traffic and re generally no other approach or

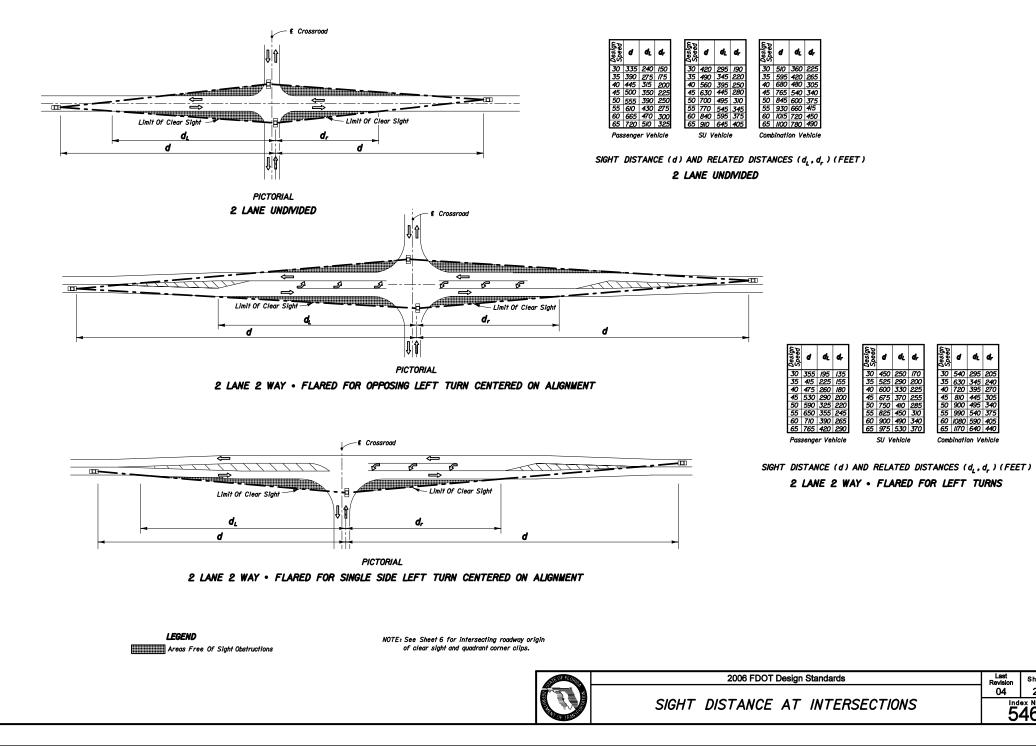
ing operation (i.e. flashing yellow on the roaches) under off-peak or nighttime se B, both to the left and to the right, if right turns on a red signal are to be ght triangle to the left for Case B2

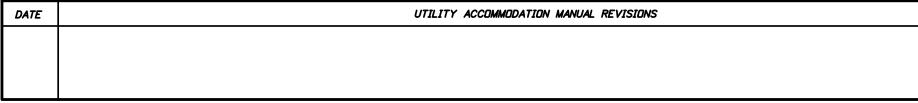
conditions preclude the use of standard must be documented and the size and

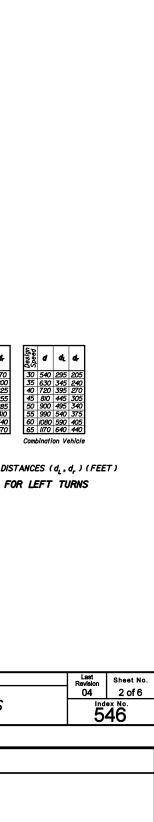
ehicles, SU Vehicles and Combination hicle is suitable for most intersections. ad, such as from ramp terminals with ulated values for SU Vehicles or

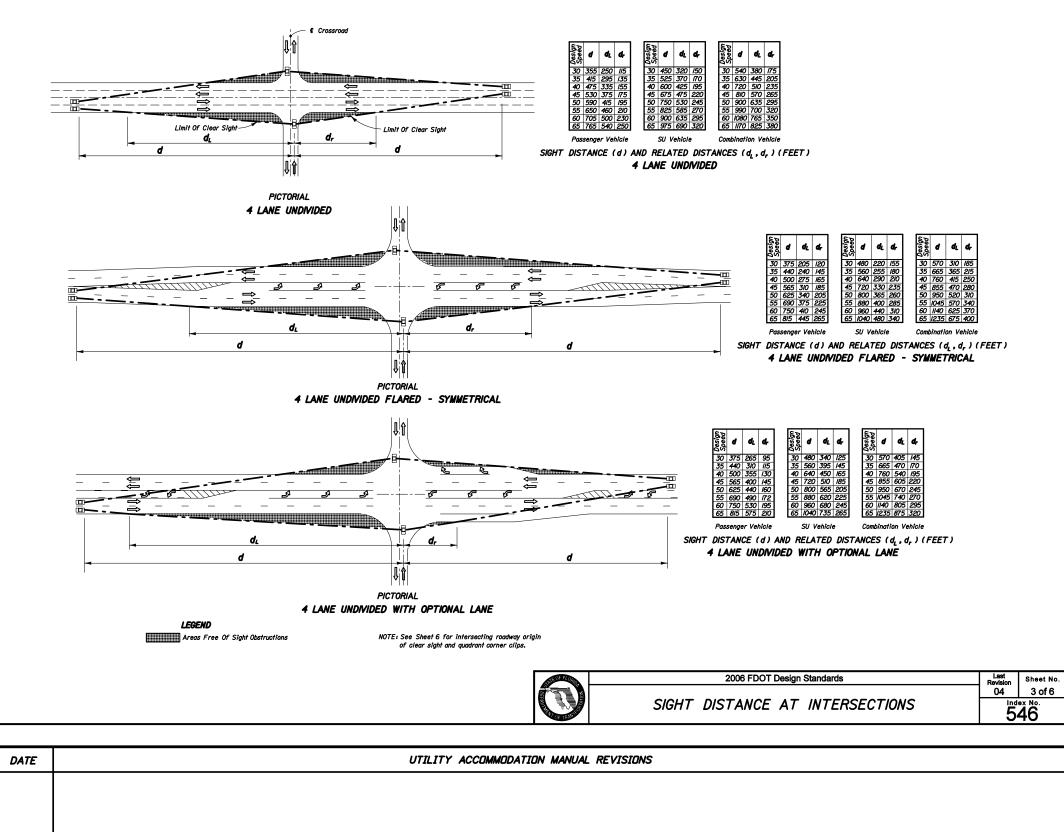
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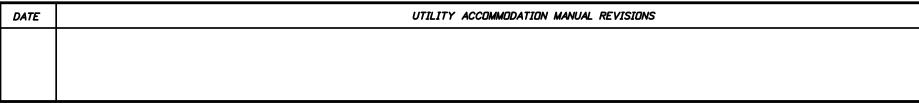


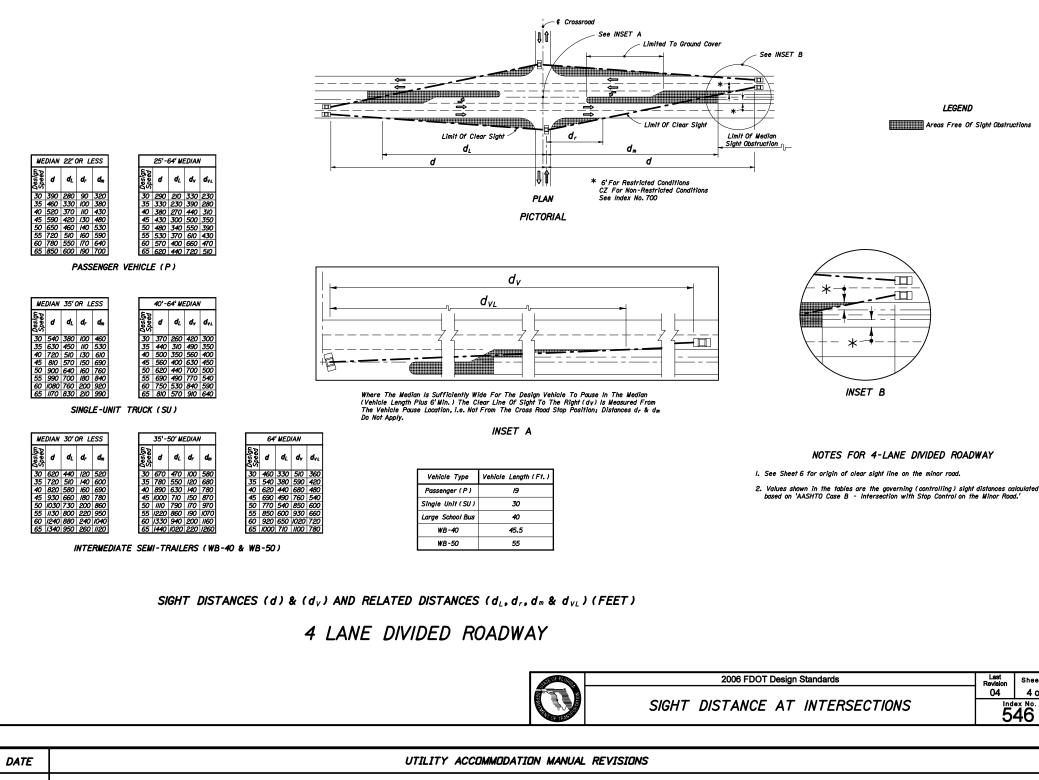








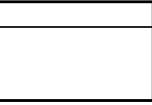


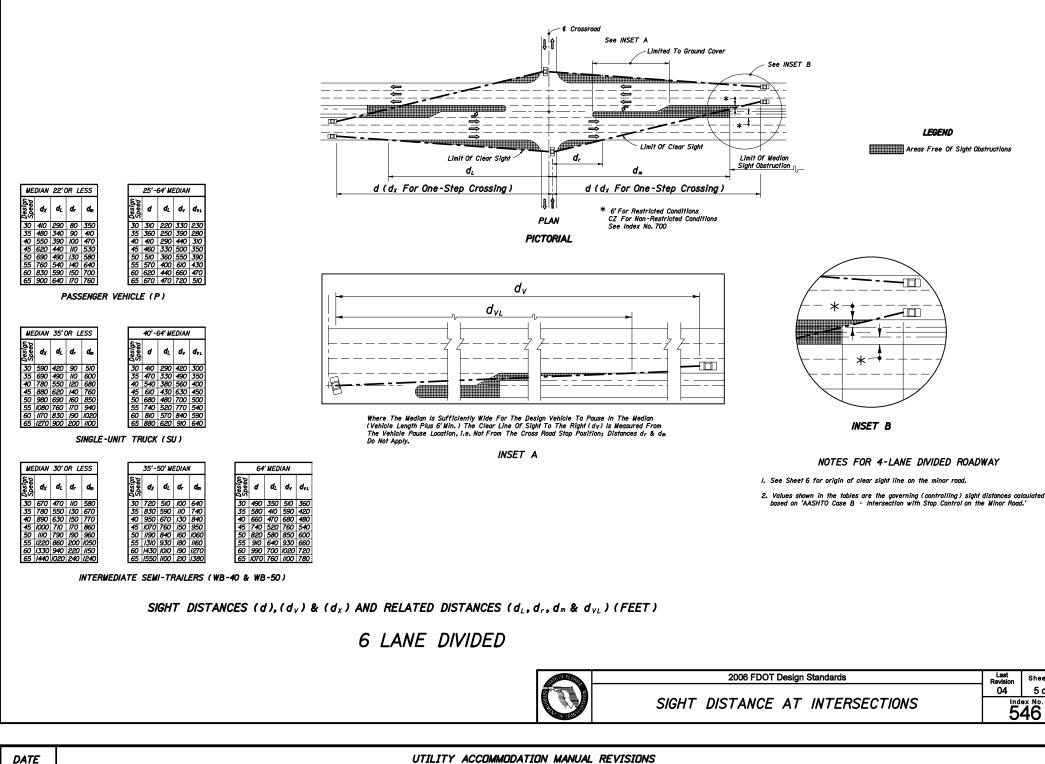


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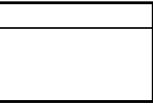
Areas Free Of Sight Obstructions

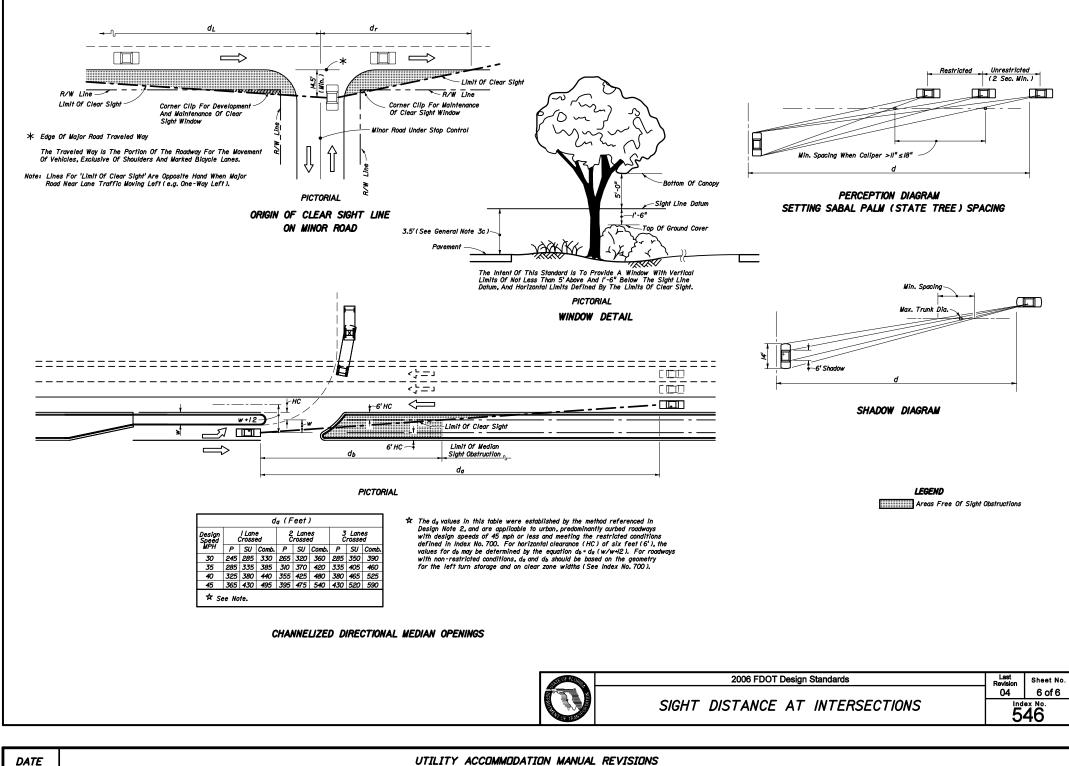
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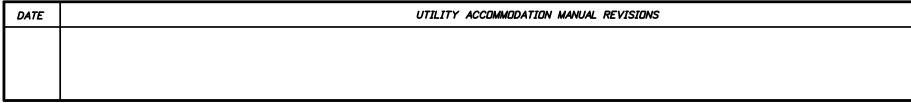


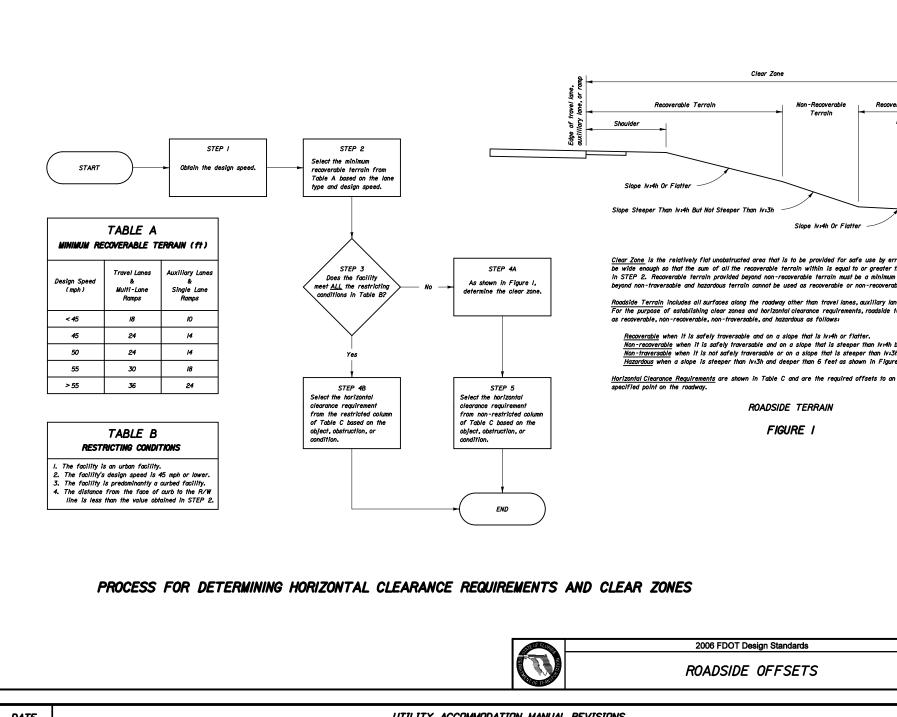


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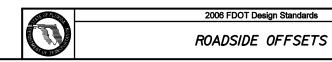




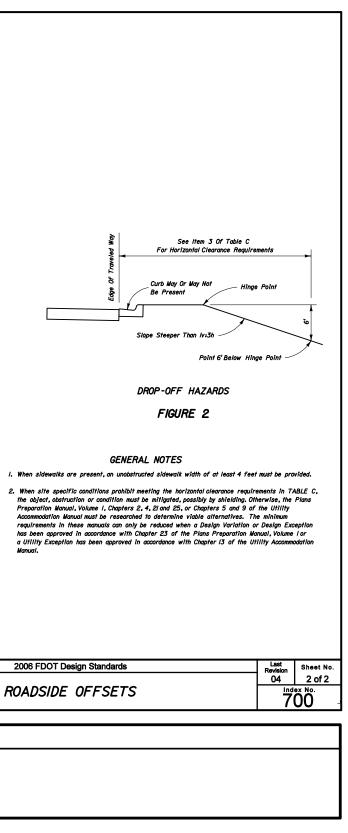
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erable Terrain			
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rrant vehicles, and than the value obt n of 10 feet. Area	must ained		
able terrain.	s		
nes, and ramps. terrain is defined			
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	-		TABLE C	
			HORIZONTAL CLEAR	ANCE REQUIREMENTS
	ltem No.	OBJECTS, OBSTRUCTIONS OR CONDITIONS	Restricted	Non-Restricted
GENERAL	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.	Locate as close to the Right Of Way as practical and not less than 4 feet from face of curb.	Locate outside the clear zone as close to the Right Of Way as practical.
	2	All FDOT approved guardrails, crash cushions, permanent or temporary concrete barriers, and guardrail end terminals.	Locate as shown in the Design Standards.	Locate as shown in the Design Standards.
	3	Drop-off hazards: Any point along a roadside slope steeper than Iv: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 traveled way.	Treat as roadside slopes in accordance with Design Standard 400.
	4	Mailboxes not shown in Design Standard 532.	Not to be used.	Not to be used.
	5	Mailboxes shown in Design Standard 532.	Locate in accordance with Design Standard 532.	Locate in accordance with Design Standard 532.
ROADWAY	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 546. Inside medians: Locate no less than 6 feet from the edge of traffic lane and in accordance with Design Standard 546.	Locate outside the clear zone as close to the Right Of Way as practical and in accordance with Design Standard 546.
	7	Trees not expected to become greater than 4 inches in diameter measured 6 inches above the ground.	Locate in accordance with Design Standard 546.	Locate in accordance with Design Standard 546.
	8	Canals behind guardrail.	Locate no less than 5 feet from the back of the guardrail post.	Locate no less than 5 feet from the back of the guardrail post.
	9	Canals without guardrail.	Locate as close to the Right Of Way as practical and not less than 40 feet from the 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 traveled way. Design speeds less that 50 mph. Locate as close to the Right Of Way as practical and not less than 50 feet from the traveled way.
	ю	Culvert wing wall, endwall, retaining walls and flared end sections less than 6 feet deep.	Locate no less than 4 feet from face of curb.	Locate outside the clear zone.
DRAINAGE	"	Culvert wing wall, endwall, retaining walls and flared end sections 6 feet and greater in depth.	Treat as drop-off hazard; See Item No. 3.	Treat as drop-off hazard; See Item No. 3.
	12	Mitered end sections.	Locate as shown in Design Standards 272 and 273.	Locate as shown in Design Standards.
TRAFFIC	13	Frangible sign supports.	Locate no less than 4 feet from face of curb and in accordance with Design Standard 17302.	Locate in accordance with Design Standard 17302.
CONTROL	14	Overhead sign supports and other non-frangible signs.	Locate no less than 4 feet from face of curb.	Locate outside the clear zone.
DEVICES	15	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 non-frangible).	Locate no less than 4 feet from face of curb and not in medians.	Locate 20 feet from travel lanes or 14 feet from auxiliary lanes. Not in medians. 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 travel lane.	Locate outside the clear zone.
	19	Fire hydrants with bases no higher than 4 inches above the ground.	Locate not less than 2 feet from face of curb.	Locate as close to the Right Of Way as practical.
UTILITIES	20	Utility installations: All above ground fixed objects.	Loode as close to the Right Of Way as practical and not less than 4 feet from face of curb and not in medians.	Locate outside the clear zone as close to the Right Of Way as practical and not in medians and not within limited access facilities. May be placed 4 feet behind the back of shields that have been justified for other reasons.



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GENERAL NOTES