

Regulations for Walker County Driveway Permits, Design, and Materials

SECTION 1 - PERMITS

The construction of all driveways, sidewalks, culverts, or other development or the replacement of existing driveways, sidewalks, or culverts on Walker County easements or rights-of-way along publicly maintained roads without first securing a permit is prohibited.

To obtain a permit to construct a driveway or to revise any existing driveway the landowner or landowner's agent, hereafter referred to as the applicant, shall contact the Walker County Department of Planning and Development. The applicant shall complete and submit to the Walker County Department of Planning and Development a *Permit to Construct Access Driveway Facilities on County Road Right of Way*, which must include a description of the proposed work, the applicant's name, mailing address, telephone number and location of the proposed driveway. Applications for permits shall be made by the property owner or their authorized representative, who shall represent all parties in interest. Applications for permits shall be made only for the bona fide purpose of securing or changing access to the owner's property, but not for the purpose of parking or servicing vehicles on Walker County rights of way.

No construction work on the driveway shall be undertaken on the right of way until a fully executed driveway permit has been received by the applicant and the applicant has given 24-hour notification to Walker County.

A driveway must be constructed in accordance with a fully executed driveway permit and all applicable regulations. The precinct commissioner from the precinct in which the application is made and/or his or her appointed representative will review the driveway construction to determine if it is acceptable or if modifications are needed. A driveway will be considered an authorized permitted driveway installation only after construction has been completed and the construction has been determined to be satisfactory to Walker County. The applicant or landowner shall be responsible for the replacement of any culvert that fails to function.

Consideration also needs to be given by applicant and/or applicant's contractor to driveway geometrics, utility location or relocation, environmental requirements, wetlands considerations (if appropriate) and the need to follow all applicable state and federal laws, rules and regulations, including contacting a utility location one call system such as Texas 811 prior to excavation, compliance with the Americans with Disabilities Act Accessibility Guidelines (ADAAG) and the Texas Accessibility Standards (TAS) where applicable.

SECTION 2 – DRIVEWAY DESIGN

All parts of entrances and exits on county road right of way, including the radii, shall be confined within the permittee's property frontage. Frontage is that portion of the right of way lying

between two most distant possible lines drawn perpendicularly from the centerline of the county road to the permittee's abutting property line.

When the permittees of two or more adjoining properties agree to combine their property frontage for a shared access driveway, the combination would be encouraged and authorized under the applicable regulations. The frontage will then be the portion of the right of way lying between the two most distant possible lines of the combined frontage drawn perpendicularly from the centerline of the roadway to the permittees' abutting property lines.

At any intersection of a county roadway with another highway, road, or street where the existing right of way is flared or widened to allow for additional sight distance, no access driveway will be permitted within the flared or widened right of way section.

Fixed objects will not be allowed in the county road right of way.

The angle of the driveway from the county road pavement shall be 75 to 90 degrees, except that one-way 45 to 90 degree angle driveways will be permitted for connections to one-way frontage roads or lane divided highways.

The width of a private residential driveway shall be a minimum of twenty(20) feet measured at right angles to the centerline of the driveway, except as increased by permissible radii. The radius connecting the driveway to the county road pavement shall not be less than 15 feet. Inlets shall be spaced every 50 ft. or in the midpoint of any culvert over 50 feet in length but less than 100 feet.

The width and method of construction of a commercial driveway and the radius of curvature connecting the driveway to roadway pavement may vary in size depending on traffic and location and should be selected in accordance with Appendix C of the Texas Department of Transportation Roadway Design Manual.

SECTION 3 – DRAINAGE

Drainage in roadway side ditches shall not be altered or impeded. When drainage structures are required, the size and other design features shall be approved by Walker County.

Access driveways shall be constructed to match the grade of the roadway pavement edge or the shoulder edge if a shoulder is present. The driveway shall be designed and constructed in such a manner as to not impede the flow of water away from the county road.

If the driveway is approved to be constructed at grade through the roadside ditch or natural grade of the roadside, the driveway shall be paved with an all-weather surface material acceptable to Walker County to conform to the cross section shape of the ditch or other natural grade of the roadside to form a stable driveway. An exception to using new all-weather surface material may be approved by Walker County if the roadside or ditch is naturally composed of an all-weather surface material with rock which may be driven on without eroding or rutting in all types of weather.

Safety end treatments will be used for all driveways with drainage structures constructed within the county road right of way that are not constructed of steel pipe with a minimum $\frac{1}{4}$ wall thickness. Steel culvert pipe not utilizing an end treatment and being thirty-six (36) inches or greater in diameter will have the pipe ends cut at the same slope as specified for the end treatments. The side slopes of the driveways must not be greater than the slope of the required safety end treatment or steel pipe, and shall match the slope of the safety end treatment or steel pipe at the junction of the two. Approved safety end treatments may be found at standard CAD drawing under Texas Department of Transportation's Bridge Standards for Safety End Treatments. The most frequently used standard is 'Parallel Drainage for 12"-72" Diameter.' These can be found under [Bridge Standards \(English\)](#), Safety End Treatments. The design requirements of the safety end treatments and thirty-six (36) inch or larger diameter steel pipes with $\frac{1}{4}$ inch wall thickness having sloped ends are as follows:

- There shall be no culvert headwalls or similar vertical ends.
- Ends shall be sloped at 6:1 (6 horizontal to 1 vertical) or flatter, with concrete riprap to prevent erosion and to protect the pipe end.
- The access driveway embankment slope shall be 6:1 maximum, with 8:1 preferred beginning at the edge of the driveway pavement.
- For pipes thirty-six (36) inches or greater in diameter or multiple pipes with individual diameters greater than 24 inches, grates shall be provided with maximum slope of 6:1 or a preferred slope of 8:1. Cross-pipes are not required on small (single pipes having a diameter less than 36 inches) structures regardless of end location with respect to the horizontal clearance requirements; however, the ends of small structures shall be sloped and provided with concrete riprap as described above.

A ditch within the county road right of way may be filled in with dirt or other approved material, provided that prior Walker County approval is obtained and the following conditions are met:

- The property along the right-of-way frontage has two or more permitted driveways that are in compliance.
- Surface drainage shall be provided so that all surface water on the filled-in area shall be carried away from the county roadbed in a suitable manner.
- The design of a drainage structure underneath the filled-in area shall be adequate to carry the flow of water in the county roadway ditches.
- The filled-in area shall be sufficiently delineated and, where required by Walker County, delineation or other satisfactory methods shall be used to prevent the use of the area for parking or travel. The area shall be kept free of obstructions.
- The filled-in area shall extend from the right-of-way line to the edge of pavement, edge of shoulder or back of curb as the case may be. Other requirements may be imposed by Walker County for filled-in areas in order to conform with planned future improvements to the existing county roadway section.
- The filled-in area and safety end treatment on the drainage structure may not extend beyond the boundary line of the permittee's property without written consent of the adjoining property owner whose property will contain the extension.

SECTION 4 - MATERIALS

The permittee shall furnish all materials necessary for the construction of the access driveways and all appurtenances authorized by the permit. All materials shall be of satisfactory quality and shall be subject to inspection and approval by Walker County. Minimum culvert diameter shall be 16". All culverts shall be constructed of steel pipe with a minimum wall thickness of 0.25 inches. Corrugated steel, reinforced concrete, or HDPE, such as ADS N-12 ® pipe or equivalent may be used if an approved concrete safety end treatment is installed. All concrete pre-cast conduits or concrete precast pipe shall be new, tongue and groove (bell ended pipe shall not be used), reinforced Class III pipe. Access driveways shall be paved with an all-weather surface material acceptable to Walker County to reduce tracking mud onto the county roadway and to prevent damage to the edge of the roadway from vehicles using the driveway.

SECTION 5 – ENFORCEMENT

Any violation of this policy will be enforced by available civil, criminal, or administrative remedies allowable under state law at the time that a violation occurs.

SECTION 6 –EXCEPTIONS

- 1) An appeal for exception to these Regulations will be considered on the following basis and only after good and sufficient cause has been demonstrated by the applicant for an exception:
 - a) Upon denial of permit, the applicant may appeal the decision by stating and submitting his reasons in writing to the County Engineer and within ten (10) days of the denial of said permit.
 - b) The County Engineer shall review the appeal and within fifteen (15) days of receipt of the said appeal, shall reduce his findings to writing and submit his findings and recommendation to Commissioners' Court. The applicant shall be provided with a copy of the County Engineer's recommendations and may appear before Commissioners' Court to support his appeal.
- 2) The Precinct Commissioner with good cause, may allow a culvert to be placed between twelve (12) and sixteen (16) inches in diameter in areas or circumstances as deemed necessary or appropriate.

SECTION 7 – RECORDS

All applications and file copies of permits issued pursuant to these Regulations shall be maintained by Walker County as part of the permanent records of the Department of Planning and Development.

SECTION 8 – EFFECTIVE DATE

These Regulations shall become effective upon adoption by Commissioners' Court.

SECTION 9 – SEVERABILITY

The provisions of these Regulations are severable. If any word, phrase, clause, sentence, section, provision, or part of these Regulations should be held invalid or unconstitutional, it shall not affect the validity of the remaining provisions, and it is hereby declared to be the intent of the Commissioners' Court that these Regulations would have been adopted as to the remaining portions, regardless of the invalidity of any part.

SECTION 10 – FEES

Fees for permits and inspections required by these regulations will be set in the adopted schedule of fees as approved by the Commissioner's Court of Walker County, Texas.

SECTION 11 – PROMULGATION OF FORMS


Forms are promulgated for use in the administration of these regulations. The Department of Planning and Development, County Engineer, or Commissioner's Court may add to these forms or may promulgate additional forms as may be needed to administer these regulations.


SECTION 12 – PROMULGATION OF DETAILS

Details (drawings) may be promulgated for use in the administration of these regulations. The County Engineer, Department of Planning and Development, or Commissioner's Court may revise these details or may promulgate additional details as may be needed to administer these regulations.

STATE OF TEXAS §
COUNTY OF WALKER §

This is to certify that the Commissioner Court of Walker County, Texas has on this 29th day of **September 2015**, approved this.


ROBERT D. PIERCE, County Judge


B.J. GAINES, JR., Comm. Prec. 1

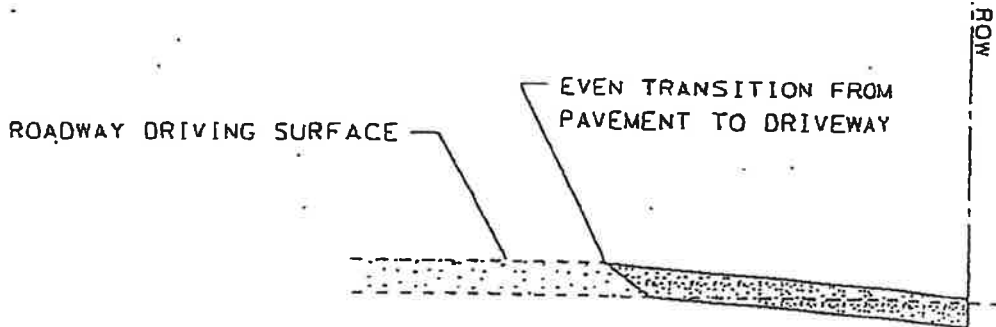
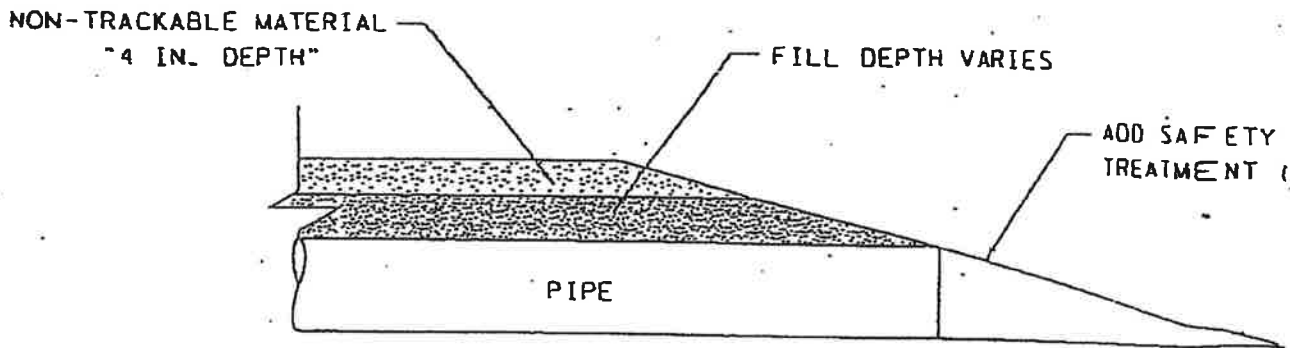
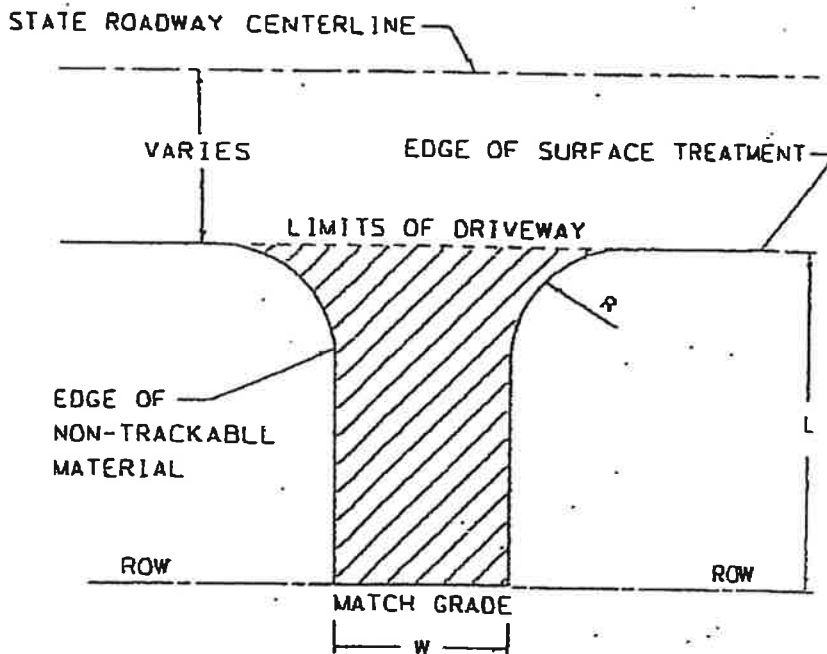

RONNIE WHITE, Comm. Prec. 2


GLEN R. READER, Comm. Prec. 3

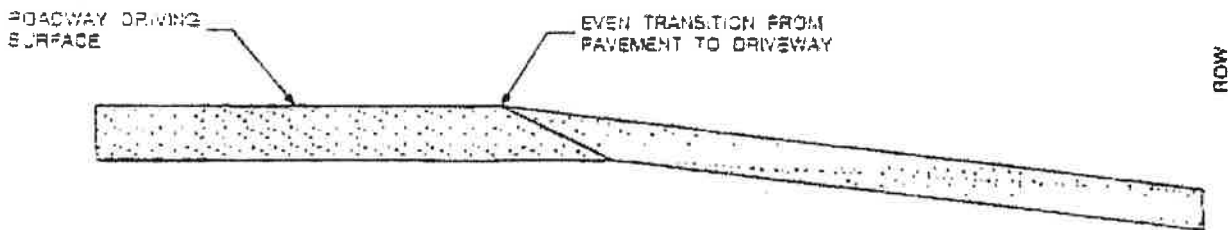
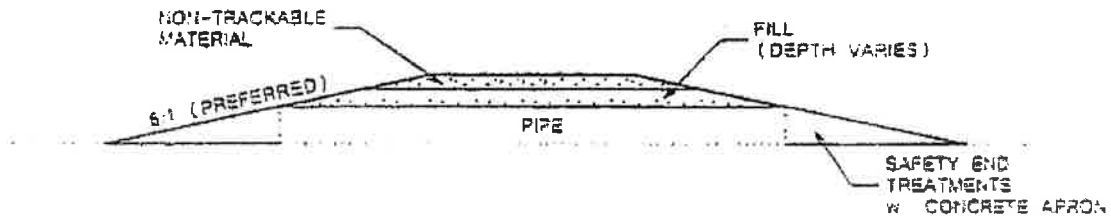
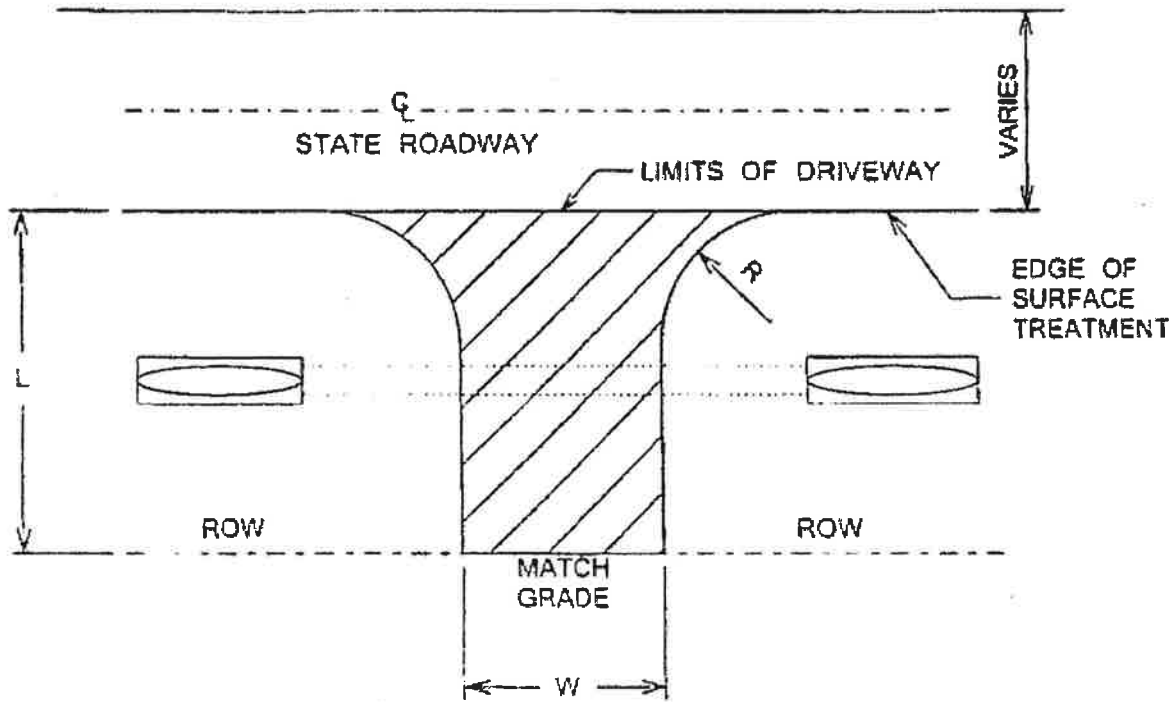

JIMMY D. HENRY, Comm. Prec. 4

TYPICAL DRIVEWAY DETAIL

PRIVATE DRIVEWAY: W = "See Permit" L = VARIES R = 10 FT.
 COMMERCIAL DRIVEWAY: W = _____ FT. L = VARIES R = 20 FT.
 PUBLIC DRIVEWAY: W = _____ FT. L = VARIES R = 25 FT.



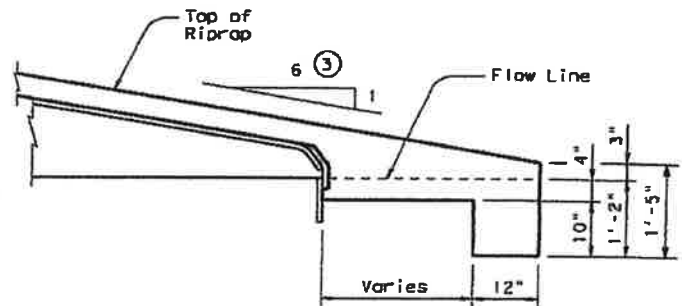
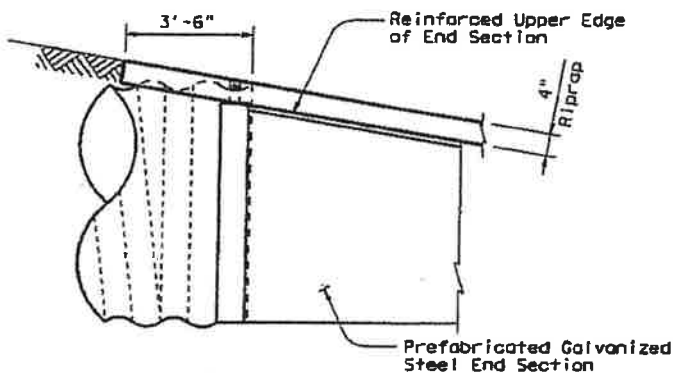
TYPICAL DRIVEWAY DETAIL



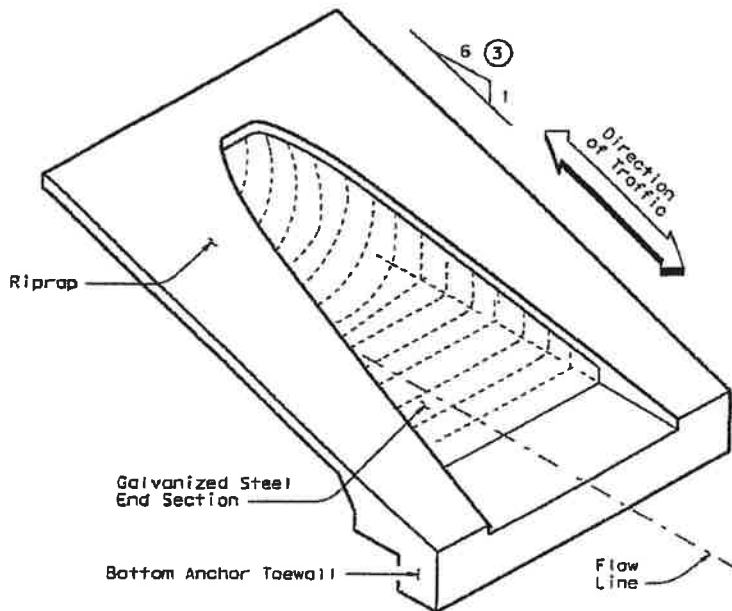
SIDE ELEVATION OF CAST-IN-PLACE CONCRETE

ESTIMATED CONCRETE RIPRAP QUANTITIES	
D (Nominal Culvert I.D.)	Concrete (CY)
12"	0.8
18"	1.0
24"	1.2
30"	1.4

CROSS PIPE LENGTHS & REQUIRED PIPE SIZES						
D (Nominal Culvert I.D.)	Length of Cross Pipes	Cross Pipes Required	Cross Pipe Size			
30" or Less	N/A	Not Required	N/A			
PREFABRICATED END SECTION INFORMATION				STANDARD PIPE SIZES		
D (Nominal) (Culvert I.D.)	H (6)	A (6)	W (6)	Gage (6)	Pipe Size	Pipe O.D.
24" or less	6"	9"	D + 24"	16	3 1/2" STD	4.000"
30"	9"	12"	D + 32"	14	4" STD	4.500"



ISOMETRIC VIEW OF TYPICAL INSTALLATION



GENERAL NOTES:

The Safety End Treatments shown herein are intended for use in those installations where out of control vehicles are likely to traverse the openings approximately perpendicular to the Cross Pipes.

Cross Pipes shall conform to the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52.

All steel components, except concrete reinforcing, shall be galvanized after fabrication. Bolts and nuts shall conform to ASTM A307.

- ③ All quantities, calculations, and dimensions shown herein are based on the 6:1 Slope. 6:1 slope or flatter is required for vehicle safety.
- ⑥ Values shown are minimum requirements.
- ⑦ Riprap quantities shown are for one end of one culvert only.

 Texas Department of Transportation Bridge Division			
PREFABRICATED GALVANIZED STEEL END SECTION SAFETY END TREATMENT FOR 12" TO 60" DIA C.M.P. CULVERTS TYPE II - PARALLEL DRAINAGE			
MOD GS-ES-PD			
FILE#	DESIGN	DATE	CHK
GS-ES-PD	2703	12/01	CAF
DISTRICT		FEDERAL AID PROJECT	
REVISONS		DATE	