

## Permit to Construct Access Driveway Facilities on Highway Right of Way

Form 1058 (Rev. 12/17) Page 1 of 2

#3/4 show

Mar 499-1001	PERMIT NUM	BER:			
		GPS*	ROA	DWAY	
REQUE	STOR	LATITUDE, LONGITUDE	HWY NAME	SH	150
		30°31'22.46"N 95°22'59.30"W FOR TxDOT'S			
	•		CONTROL	T	
NAME	Tribute Ranch LLC		SECTION		and the second
MAILING ADDRESS	665 Simonds Road				
CITY, STATE, ZIP	Williamstown, MA 02167				
PHONE NUMBER	(92) 713-1841				
<b>3LOBAL POSITIONING SYSTEM C</b>	OORDINATES AT INTERSECTION	OF DRIVEWAY CENTERLINE WITH ABU	TTING ROADWAY		

The Texas Department of Transportation, hereinafter called the State, hereby authorizes Renee Howes hereinafter called the Permittee, to 🖄 construct / 🗌 reconstruct a 24' with 25' radius shared residential (residential convenience store, retail mall, farm, etc.) access driveway on the highway right of way abutting highway number SH 150 in Walker County County, located 2,018' west of RM 678 on the south side of SH 150 for tract #3 & #4. GARZA J M (A-22) This will be a shared access use Abutting highway strength of the south side of SH 150 for tract #3 & the county of the south side of SH 150 for tract #3 & the county of the south side of SH 150 for tract #3 & the count of the south side of SH 150 for tract #3 & the count of the south side of SH 150 for tract #3 & the count of the south side of SH 150 for tract #3 & the count of the count of the south side of SH 150 for tract #3 & the count of the south side of SH 150 for tract #3 & the count of the cou

Subject to the Access Driveway Policy described on page 2 and the following:

- 1. The undersigned hereby agrees to comply with the terms and conditions set forth in this permit for construction and maintenance of an access driveway on the state highway right of way.
- 2. Design of facilities shall be as follows and/or as shown on sketch on page 2 and is subject to conditions stated below: Culvert dimensions shall be 18" X 42<sup>°</sup> plus 6 to 1 sloped ends (SETs). SETs shall be cast in concrete or pre-cast concrete. The pipe shall be set 2" below existing ditch line grade. The following are approved culverts for use on TX DOT right-of-way (CGM, RCP, plastic or pre-approved oil field pipe). All culverts shall be installed according to the manufactures installation instructions. The final driving surface shall be non-tracking type material. No curbs or headwalls all e allowed within TX DOT right-of-way. All required items shall be completed within 45 days after starting installation.

All construction of materials shall be subject to inspection and approval by the State.

- 3. Maintenance of facilities constructed hereunder shall be the responsibility of the Permittee, and the State reserves the right to require any changes, maintenance or repairs as may be necessary to provide protection of life or property on or adjacent to the highway. Changes in design will be made only with approval of the State.
- 4. The Permittee shall hold harmless the State and its duly appointed agents and employees against any action for personal injury or property damage sustained by reason of the exercise of this permit.
- 5. Except for regulatory and guide signs at county roads and city streets, the Permittee shall not erect any sign on or extending over any portion of the highway right of way, and vehicle service fixtures such as fuel pumps, vendor stands, or tanks and shall be located at least 12 feet from the right of way line to ensure that any vehicle services from these fixtures will be off the highway right of way.
- 6. The State reserves the right to require a new access driveway permit in the event of a material change in land use or change in driveway traffic volume or vehicle types.
- 7. This permit will become null and void if the above-referenced driveway facilities are not constructed within six (6) months from the issuance date of this permit.
- The Permittee will contact the State's representative William Ray telephone, (936) 295-7491, at least twenty-four (24) hours prior to beginning the work authorized by this permit.
- 9. The requesting Permittee will be provided instructions on the appeal process if this permit request is denied by the State,

May 22, 2019	
Date of Issuance	State Authorized Representative
The undersigned hereby agrees to comply with the terms and condi- access driveway on the highway right of way. Date: 5/22/2019	itions set forth in this permit, for construction and maintenance of an Signed:

(Property owner or owner's representative)

# DRIVEWAY SAFETY TREATMENT EXAMPLE



# NOTE: SEE STANDARD REQUIREMENTS FOR PIPE RUNNER NEED.

(NOT TO SCALE)



CROSS PIPE LENGTHS & REQUIRED PIPE SIZES (1)							
D (Nominal Culvert I.D.)	Length of Cross Pipes	Cross Pipes Required	Cross Pipe Size				
30" or Less	N/A	Not Required	N/A				
36"	4'- 5"	Always Dequired	4 500 × 0 227				
42"	4'-11"	Always Required	4.500 x 0.237				
48"	5'- 5"						
54"	5'-11"	Always Required	5.563 x 0.258				
60"	6'- 5"						

PREFABRICATED	END	SECTION					
INFORMATION							

D	Н	А	W	Gage
(Nominal) (Culvert I.D.)	6	6	6	6
24" or less	6"	9"	D + 24"	16
30"	9"	12"	D + 32"	14
36"	9"	12"	D + 32"	14
42" or greater	12"	16"	D + 40"	12/10 (2)

STANDARD PIPE SIZES (1)								
HSS Size	STD Size							
4.000 x 0.226	3 1/2"							
4.500 x 0.237	4"							
5.563 x 0.258	5"							

Provide Cross Pipes and Saddle Pipes conforming to ASTM A1085, A500 (Grade B), A53 (Type E or S, Grade B), or API 5LX52.

Provide bolts and nuts conforming to ASTM A307.

Galvanize all steel components, except reinforcement, after fabrication. Repair galvanizing damaged during transport or construction in accordance with Item 445, "Galvanizing". Toe Plate Extensions are required only when shown elsewhere in the Plans.

Concrete Riprap is required only when Cross Pipes are required, unless otherwise shown in the Plans. Provide Concrete Riprap in accordance with Item 432, "Riprap". Bolted Anchor Toewall may be omitted when an alternate End Section with pre-attached cross pipes is

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of reinforcing steel in concrete riprap unless noted otherwise.

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

Cross Pipes are designed for a traversing load of 10,000 pounds at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981.

Alternate styles of End Sections, including those with pre-attached cross pipes, may be supplied. Alternate styles must meet all of the following: design values shown in tables for cross pipe size; spacing of cross pipes and location of first cross pipe; H, A, W, and gage for end section; and material requirements noted.

All Cross Pipes, calculations, and dimensions are based on the End Section shown on this standard. Alternate styles of End Sections will require that appropriate adjustments be made

to the values presented on this standard. Payment for riprap and toewall is included in price bid for each Safety End Treatment.

SHEET 1 OF 2						
Texas Department	ridge Division tandard					
PREFABRICATED GALVANIZED STEEL END SECTION SAFETY END TREATMENT FOR 12" TO 60" DIA C.M.P. CULVERTS TYPE II ~ PARALLEL DRAINAGE						
	(·	<u>-2</u>	ES-PL	)		
FILE: gsespdse.dgn	DN: TXD	OT	CK: TXDOT DW	JRP	CK: GAF	
CTxDOT February 2010	CONT	SECT	JOB		HIGHWAY	
REVISIONS						
5-14: Notes; add alternate requirements.	DIST		COUNTY		SHEET NO.	



No warranty of any lity for the conversion Practice is no resp exas Engi TxD0T by i hat se se gov Pur DISCLAIMER: The use of this standard is wind is made by TxDDT for any of this standard to other form

# ESTIMATED CONCRETE RIPRAP QUANTITIES 10

D (Nominal Culvert I.D.)	Concrete (CY)
12"	0.8
15"	0.9
18"	1.0
21"	1.1
24"	1.2
27"	1.3
30"	1.4
33"	1.5
36"	1.6
42"	1.8
48"	2.0
54"	2.2
60"	2.4



- 1 Provide Size and Lengths of Cross Pipes as shown in the tables, except the first Cross Pipe from the bottom and the Saddle Pipe must be 3 ½". All other values shown are minimum requirements.
- (5) Reinforce upper edge of Prefabricated End Section with minimum ¾" diameter smooth or deformed bar (pre-galvanized).
- $\bigcirc$ Riprap placed beyond the limits shown will be paid as Concrete Riprap in accordance with Item 432, "Riprap".
- 8 The proper installation of the first Cross Pipe is critical for vehicle safety. The top of the first Cross Pipe must be placed at no more than 6" above the flow line.
- 9 The third Cross Pipe from the bottom of the Culvert must always be installed using a bolted connection. Ensure that concrete does not flow into this Cross Pipe so as to permit disassembly of the bolted connection to allow cleanout access.
- (10)Riprap quantities shown are for one end of one culvert only. For multiple culverts, quantities will need to be adjusted. Riprap quantities are for Contractor's information only.

SHEET 2 OF 2						
Texas Department	Br Di St	idge vision andard				
PREFABRICATED GALVANIZED STEEL END SECTION SAFETY END TREATMENT FOR 12" TO 60" DIA C.M.P. CULVERTS TYPE II ~ PARALLEL DRAINAGE						
GS-ES-PD						
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CTxDOT February 2010	CONT	SECT	JOB			HIGHWAY
REVISIONS						
5–14: Notes; add alternate requirements.	DIST	DIST COUNTY				SHEET NO.



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NF NTS	S MAXIMUM LENGTH REQUIRED		REQUIRED PIPE RUNNER SIZES				
ft Ə)	SLOPE	OF UNIT	SINGLE PIPE	MULTIPLE PIPE	NOMINAL DIA.	0.D.	I.D.
₹С.	6 <b>:</b> 1	4′-0″	No	Yes, for ≻2 pipes	3" STD	3.500"	3.068"
RC.	6 <b>:</b> 1	5′-8"	No	Yes, for >2 pipes	3" STD	3.500"	3.068"
<b>२С.</b>	6 <b>:</b> 1	7′-3"	No	Yes, for >2 pipes	3" STD	3.500"	3.068"
RC.	6 <b>:</b> 1	10′-6"	No	Yes, for >2 pipes	3" STD	3.500"	3.068"
۶C.	6 <b>:</b> 1	12′-1″	No	Yes	4" STD	4.500"	4.026"
IP.	6:1	15′-4″	Yes	Yes	4" STD	4.500"	4.026"
[P.	6:1	18′-7"	Yes	Yes	4" STD	4.500"	4.026"

Precast safety end treatment for reinforced concrete pipe may be used for TYPE II end treatment as specified in Item "Safety End Treatment". When Precast Safety End Treatment is used as a Contractor's alternate to mitered RCP, Riprap will not be required unless noted otherwise on

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise.

All precast concrete end sections shall be manufactured in accordance with Item "Reinforced Concrete Pipe" and in accordance with ASTM Specification C-76, Class III, Wall B for circular pipe. Precast concrete end sections shall be provided with a spigot or bell end for compatibility to upstream or downstream end conditions with sufficient annular space to allow for mortar, cold applied asphalt joint compound or pre-formed plastic gasket material.

Methods of lifting shall be provided by the manufacturer for ease of

loading, unloading and installation. Pipe Runners are designed for a traversing load of 10,000 Lbs at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute,

Pipe Runners 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 reinforcing, shall be galvanized after fabrication. Galvanizing damaged during transport or construction shall be repaired in accordance with the specifications.





- for vehicle safety.

- directed by Engineer.

### GENERAL NOTES:

Precast safety end treatment for reinforced concrete pipe may be used for TYPE II end treatment as specified in Item "Safety End Treatment". When Precast Safety End Treatment is used as a Contractor's alternate to mitered RCP, Riprap will not be required unless noted otherwise on the plans.

Synthetic fibers listed on the "Fibers for Concrete" Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise. Manufacture of this product shall conform to requirements of Item "Safety End Treatment" except as noted below :

M:1

	MAXIMUM	MINIMUM LENGTH	PIPE R REQU	REQUIRED PIPE RUNNER SIZES			
	SLOPE OF SINGLE MULTIPLE UNIT PIPE PIPE		MULTIPLE PIPE	NOMINAL DIA.	0.D.	I.D.	
7"	6 <b>:</b> 1	4′-9"	No	Yes, for ≻2 pipes	3" STD	3.500"	3.068"
1/2 "	6 <b>:</b> 1	6′-5″	No	Yes, for ≻2 pipes	3" STD	3.500"	3.068"
4"	6:1	8′-0″	No	Yes, for ≻2 pipes	3" STD	3.500"	3.068"
1 "	6 <b>:</b> 1	11′-3″	No	Yes, for ≻2 pipes	3" STD	3.500"	3.068"
1/2 "	6:1	14′-8″	No	Yes	4" STD	4.500"	4.026"
1/2 "	6:1	17′-11″	Yes	Yes	4" STD	4.500"	4.026"
1/2 "	6:1	21′-2"	Yes	Yes	4" STD	4.500"	4.026"

(1) Dimension "D" is based on ASTM C-76, Class III, Wall "B" thickness. If any other wall thickness is used, dimension "D" must be adjusted accordingly.

(2) Slope as shown elsewhere in the plans. Slope of 6:1 or flatter is required

(3) Toewall to be used only when dimension is shown elsewhere in the plans.

(4) The top 4" of void between Precast End Treatments shall be filled with concrete Riprop and shall be considered subsidiary to Safety End Treatment.

(5) Clear distance between pipes shall be adjusted to provide for the minimum distance between safety end treatments.

6 Cement stabilized bedding and backfill shall be in accordance with the Item, "Excavation and Backfill for Structures". Bedding and backfill shall be considered subsidiary to the Item "Safety End Treatment". When concrete riprap is specified around the safety end treatment, backfill shall be as

A. Minimum reinforcing shall be #4 at 6" (Grade 40) or #4 at 9" (Grade 60) each way or 6 x 6 - W12 x W12 or 5 x 5 - W10 x W10 welded wire reinforcement (WWR).

B. Concrete for precast (steel formed) sections shall be Class "C" with a minimum compressive strength of 3600 psi.

At the option and expense of the Contractor the next larger size of Safety End Treatment may be furnished; as long as the "D" dimension

cast is that of the required size of pipe. Pipe Runners are designed for a traversing load of 10,000 Lbs at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981. Pipe Runners 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 reinforcing, shall be galvanized after fabrication. Galvanizing damaged during transport or construction shall be repaired in accordance with the specifications.

Texas Department of Transportation						ridge ivision tandard	
PRECAST SAFETY END							
TRE	EAT	M	ENT				
TYPE II ~ PA	RAL	LE	LDF	RΑ	INA	AGE	
	F	29	ET-S	P			
FILE: psetspss.dgn	DN: RL	V	CK: KLR	DW:	JTR	ск: GAF	
CTxDOT February 2010	CONT	SECT	ECT JOB			HIGHWAY	
REVISIONS							
11–10: Add note for synthetic fibers.	DIST		COUNTY			SHEET NO.	



LENGTHS, REQUIRED PIPE SIZES, & RIPRAP QUANTITIES $^{(2)}$										
ipe vert 1 ~ G	Single Barrel ~ Q1	Multi- Barrel ~ Q1	Q2	Conditions for use of Cross Pipes	Cross Pipe Size					
9"	N/A	2'-1"	1'- 9"							
11"	N/A	2'- 5"	2'- 2"		3" Std					
- 2"	N/A	2'-10"	2'- 8"	3 or more Pipe Culverts						
- 4"	N/A	3'- 2"	3'-1"							
- 7"	N/A	3'- 6"	3'- 7"							
- 8"	N/A	3'-10"	3'-11"	3 or more Pipe Culverts	3 1/2" Std					
-10"	N/A	4'- 2"	4'-4"	2 or more Pipe Culverts						
-11"	4'-2"	4'- 5"	4'- 8"	All Pipe Culverts						
- 1"	4'- 5"	4'- 9"	5'-1"	ALL Bing Culverte	4" Std					
- 4"	4′-11″	5'- 5"	5′-10″	ATT PIDE CUIVEFTS	(4.500" O.D.)					
- 7"	5'- 5"	6'- 0"	6'- 7"							
- 0"	5′-11″	6'- 9"	7'- 6"		5" Std					
- 3"	6'- 5"	7'- 4"	8'- 3"	All Pipe Culverts	(5.563" O.D.)					
- 3"	6′-11″	7′-10″	8'- 9"							
- 4"	7'- 5"	8'- 5"	9'- 4"							

- (1) The proper installation of the first Cross Pipe is critical for vehicle safety. The top of the first Cross Pipe must be placed at no more than 6" above the flow line.
- (2) Size of Cross Pipes, except the first bottom pipe, shall be as shown in the PIPE SIZE table. The first bottom pipe shall be 3  $\frac{1}{2}$ " Standard Pipe (4" 0.D.).
- (3) The third Cross Pipe from the bottom of the Culvert shall always be installed using a bolted connection. Care shall be taken to ensure that Riprap concrete does not flow into the Cross Pipe so as to permit disassembly of the bolted connection to allow cleanout access. At the Contractor's option, all other Cross Pipes may also be installed using the bolted connection details.
- (4) Match Cross Slope as shown elsewhere in the plans. Cross Slope of 6:1 or flatter is required for vehicle safety.
- Slope of 6:1 or flatter is required for vehicle safety.
  Riprap placed beyond the limits shown will be paid as
- Concrete Riprap in accordance with Item 432, "Riprap". (6) Quantities shown are for one end of one reinforced Con
- Quantities shown are for one end of one reinforced Concrete Pipe Culvert. For multiple pipe culverts or for Corrugated Metal Pipe Culverts, quantities will need to be adjusted. Riprap quantities are for Contractor's information only.

### GENERAL NOTES:

Cross Pipes are designed for a traversing load of 10,000 pounds at yield as recommended by Research Report 280-2F, "Safety Treatment of Roadside Parallel-Drainage Structures", Texas Transportation Institute, March 1981.

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.

Riprap and all necessary inverts shall be Concrete Riprap conforming to the requirements of Item 432, "Riprap". Synthetic fibers listed on the "Fibers for Concrete"

Material Producer List (MPL) may be used in lieu of steel reinforcing in riprap concrete unless noted otherwise. Payment for riprap and toewall is included in the Price Bid for each Safety End Treatment.

Cross Pipes shall conform to the requirements of ASTM A53 (Type E or S, Grade B), ASTM A500 (Grade B), or API 5LX52. Bolts and nuts shall conform to ASTM A307.

All steel components, except concrete reinforcing, shall be galvanized after fabrication. Galvanizing damaged during transport or construction shall be repaired in accordance with the specifications.

Texas Department	,	Bridge Division Standard									
SAFETY END TREATMENT											
FOR 12" DIA TO 72" DIA											
PIPE CULVERTS											
TYPE II ~ PARALLEL DRAINAGE											
SETP-PD											
FILE: setppdse.dgn	DN: GAN	F	ск: САТ	DW:	JRP	CK: GAF					
CTxDOT February 2010	CONT	SECT	SECT JOB		HIGHWAY						
REVISIONS											
11-10: Add note for synthetic fibers.	DIST	IST COUNTY			SHEET NO.						