



**PERMIT APPLICATION REVIEW FORM FOR
CABLE, CONDUIT, AND POLE LINE ACTIVITY
IN FORT BEND COUNTY**

**Fort Bend County
Engineering Department**
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytx.gov

- Right of Way Permit**
- Commercial Driveway Permit**

Permit No: 2023-63473

Applicant: Capital Construction Management Inc.

Job Location Site: 8425 GRANDMISSION BLVD, RICHMOND, TX 77407

Bond No. **Date of Bond:** 8/4/2023 **Amount:** \$35,000.00

The above applicant came to make use of certain Fort Bend County property subject to, "The Order Regulating the Laying, Construction, Maintenance, and Repair of Buried Cables, Conduits, and Pole Lines, In, Under, Across or Along Roads, Streets, Highways, and Drainage Ditches in Fort Bend County, Texas, Under the Jurisdiction of the Commissioners Court of Fort Bend County, Texas," as passed by the Commissioners Court of Fort Bend County, Texas, of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Chapter 181, Vernon's Texas Statutes and Codes Annotated.

Notes:

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required, via email, for certain construction activities in County right-of-way. Contact permits@fbctx.gov for a copy of the notification procedure applicable to your project.
3. This permit expires one (1) year from date of permit if construction has not commenced.
4. This permit applies to work performed within right-of-ways owned and maintained by Fort Bend County only, and it is the responsibility of the applicant to acquire all other necessary permits and permissions.

On this 26th day of September, 2023, Upon Motion of Commissioner _____, seconded by Commissioner _____, duly put and carried, it is ORDERED, ADJUDGED AND DECREED that said notice of said above purpose is hereby acknowledged by the Commissioners Court of Fort Bend County, Texas, and that said notice be placed on record according to the regulation order thereof.

Signature

Presented to Commissioners Court and approved.

By: 
County Engineer

Date Recorded _____ Comm. Court No. _____

Clerk of Commissioners Court

By: N/A
Drainage District Engineer/Manager

By: _____
Deputy



REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT

Fort Bend County
Engineering Department
301 Jackson Suite 401
Richmond, Texas 77469
281.633.7500
Permits@fortbendcountytx.gov

- Right of Way Permit**
 Commercial Driveway Permit
Permit No: 2023-63473

The following "Notice of Proposed Cable, Conduit, and/or Pole Line activity in Fort Bend County" and accompanying attachments have been reviewed and the notice conforms to appropriate regulations set by Commissioner's Court of Fort Bend County, Texas.

(1) COMPLETE APPLICATION FORM:

- a. Name of road, street, and/or drainage ditch affected.
 b. Vicinity map showing course of directions
 c. Plans and specifications

(2) BOND:

- County Attorney, approval when applicable.
- Perpetual bond currently posted. Bond No: _____ Amount: _____
- Performance bond submitted. Bond No: [REDACTED] Amount: \$35,000.00
- Cashier's Check Check No: _____ Amount: _____

(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):

Drainage District Approval

Date

We have reviewed this project and agree it meets minimum requirements.



Permit Administrator

9/13/2023

Date

Effective Date: August 4th, 2023

**PERFORMANCE BOND COVERING ALL CABLE, CONDUIT AND/OR POLE LINE
ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROAD,
COMMERCIAL DRIVEWAY AND MEDIAN OPENINGS OR MODIFICATIONS
(AUTHORIZED)**

BOND NO. [REDACTED]

THE STATE OF TEXAS §
COUNTY OF FORT BEND § KNOW ALL MEN BY THESE PRESENTS:

THAT WE, Capital Construction Management Inc.
whose (address, phone) is 902 East Ave., Katy, TX 77493

Texas,
hereinafter called the Principal, and WESTERN SURETY COMPANY, a Corporation existing under and
by virtue of the laws of the state of South Dakota and authorized to do an indemnifying business in the state of
Texas, and whose principal office is located at (name/address/phone) P. O. Box 5077, Sioux Falls, SD
57117-5077 (800) 331-6053, whose officer residing in the State of Texas, authorized to accept service in all
suits and actions brought within said state is FIRST INSURANCE SERVICES
and whose address is 300 SOUTH WHEELER ST., JASPER, TX 75951-4536

hereinafter called the Surety, and held and firmly bound unto, KP George, County Judge of Fort Bend County, Texas, or his
successors in office, in the full sum of Thirty Five Thousand and 00/100
Dollars (\$ 35,000.00) current, lawful money of the United States of America, to be paid to said KP George,
County Judge of Fort Bend County, Texas, or his successors in office, to which payment well and truly to be made and done,
we, the undersigned, bind ourselves and each of us, our heirs, executors, administrators, successors, assigns, and legal
representatives, jointly and severally, by these presents.

THE CONDITION OF THIS BOND IS SUCH THAT, WHEREAS, the above bounden principal contemplates laying,
constructing, maintaining and/or repairing one or more cables, conduits, and/or pole lines in, under, across and/or along
roads, streets and highways, commercial driveway and median openings or modifications in the County of Fort Bend, and the
State of Texas, under the jurisdiction of the Commissioners' Court of Fort Bend County, Texas, pursuant to the
Commissioners' Court order adopted on the 1st day of December, A.D. 1980, recorded in Volume 13, of the Commissioners'
Court Minutes of Fort Bend County, Texas, regulating same, which Commissioners' Court order is hereby referred to and
made a part hereof for all purposes as though fully set out herein;

AND WHEREAS, the principal desires to provide Fort Bend County with a performance bond covering all such cable,
conduit and/or pole line activity, commercial driveway and median openings or modifications;

NOW, THEREFORE, if the above bounden principal shall faithfully perform all its cable, conduit and/or pole line
activity (including, but not limited to the laying, construction, maintenance and/or repair of cables, conduits and/or pole lines)
in, under, across and/or along roads, streets and highways, commercial driveway and median openings or modifications in
the County of Fort Bend and State of Texas, under the jurisdiction of the Commissioners Court of Fort Bend County, Texas,
pursuant to and in accordance with minimum requirements and conditions of the above mentioned Commissioners' Court
order set forth and specified to be by said principal done and performed, at the time and in the manner therein specified, and
shall pay over and make good and reimburse Fort Bend County, all loss and damages which Fort Bend County may sustain
by reason of any failure or default on the part of said principal, then this obligation shall be null and void, otherwise to remain
in full force and effect.

This bond is payable at the County Courthouse in the County of Fort Bend and State of Texas.

It is understood that at any time Fort Bend County deems itself insecure under this bond, it may require further
and/or additional bonds of the principal.

EXECUTED this 4th day of August, 2023



PRINCIPAL [Signature]
Michael Scery / Capital Const President
BY

WESTERN SURETY COMPANY
SURETY
BY [Signature] Wells 2 Esca



Western Surety Company

RIDER

It is hereby mutually agreed and understood by and between the Principal/Insured and Western Surety Company, that instead of as originally written:

The description has been changed to read:

Cable, Conduit and/or Pole Line Activity in, Under, Across or Along Fort Bend County Road - Project number 2023-63473.

No further changes other than above.

Nothing herein contained shall be held to vary, alter, waive or extend any of the terms, limits or conditions of the Policy/Bond _____, except as hereinabove set forth.

This Rider becomes effective on the 4th day of August, 2023, at twelve and one minute o'clock a.m., standard time.

Attached to and forming part of Policy/Bond No.

issued by WESTERN SURETY COMPANY of Sioux Falls, South Dakota,

to Capital Construction Management Inc.

Signed this 7th day of August, 2023.

WESTERN SURETY COMPANY

By *Larry Kasten*
Larry Kasten, Vice President



Western Surety Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That WESTERN SURETY COMPANY, a corporation organized and existing under the laws of the State of South Dakota, and authorized and licensed to do business in the States of Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, and the United States of America, does hereby make, constitute and appoint

Larry Kasten of Sioux Falls
State of South Dakota, its regularly elected Vice President
as Attorney-in-Fact, with full power and authority hereby conferred upon him to sign, execute, acknowledge and deliver for and on its behalf as Surety and as its act and deed, the following bond:

Cable, Conduit and/or Pole Line Activity in, Under, Across or Along Fort Bend County
One Road - Project number 2023-63473.

bond with bond number [REDACTED]
for Capital Construction Management Inc.
as Principal in the penalty amount not to exceed: \$ 35,000.00

Western Surety Company further certifies that the following is a true and exact copy of Section 7 of the by-laws of Western Surety Company duly adopted and now in force, to-wit:

Section 7. All bonds, policies, undertakings, Powers of Attorney, or other obligations of the corporation shall be executed in the corporate name of the Company by the President, Secretary, any Assistant Secretary, Treasurer, or any Vice President, or by such other officers as the Board of Directors may authorize. The President, any Vice President, Secretary, any Assistant Secretary, or the Treasurer may appoint Attorneys-in-Fact or agents who shall have authority to issue bonds, policies, or undertakings in the name of the Company. The corporate seal is not necessary for the validity of any bonds, policies, undertakings, Powers of Attorney or other obligations of the corporation. The signature of any such officer and the corporate seal may be printed by facsimile.

This Power of Attorney may be signed by digital signature and sealed by a digital or otherwise electronic-formatted corporate seal under and by the authority of the following Resolution adopted by the Board of Directors of the Company by unanimous written consent dated the 27th day of April, 2022:

"RESOLVED: That it is in the best interest of the Company to periodically ratify and confirm any corporate documents signed by digital signatures and to ratify and confirm the use of a digital or otherwise electronic-formatted corporate seal, each to be considered the act and deed of the Company."

In Witness Whereof, the said WESTERN SURETY COMPANY has caused these presents to be executed by its Vice President with the corporate seal affixed this 7th day of August, 2023.

ATTEST

L. Bauder

L. Bauder, Assistant Secretary



WESTERN SURETY COMPANY

Larry Kasten

Larry Kasten, Vice President

STATE OF SOUTH DAKOTA }
COUNTY OF MINNEHAHA } SS

On this 7th day of August, 2023, before me, a Notary Public, personally appeared Larry Kasten and L. Bauder

who, being by me duly sworn, acknowledged that they signed the above Power of Attorney as Vice President and Assistant Secretary, respectively, of the said WESTERN SURETY COMPANY, and acknowledged said instrument to be the voluntary act and deed of said Corporation.



S. Green
My Commission Expires February 12, 2027 Notary Public

To validate bond authenticity, go to www.cnasurety.com > Owner/Obligee Services > Validate Bond Coverage.



Western Surety Company

POWER OF ATTORNEY

KNOW ALL MEN BY THESE PRESENTS:

That WESTERN SURETY COMPANY, a corporation organized and existing under the laws of the State of South Dakota, and authorized and licensed to do business in the States of Alabama, Alaska, Arizona, Arkansas, California, Colorado, Connecticut, Delaware, District of Columbia, Florida, Georgia, Hawaii, Idaho, Illinois, Indiana, Iowa, Kansas, Kentucky, Louisiana, Maine, Maryland, Massachusetts, Michigan, Minnesota, Mississippi, Missouri, Montana, Nebraska, Nevada, New Hampshire, New Jersey, New Mexico, New York, North Carolina, North Dakota, Ohio, Oklahoma, Oregon, Pennsylvania, Rhode Island, South Carolina, South Dakota, Tennessee, Texas, Utah, Vermont, Virginia, Washington, West Virginia, Wisconsin, Wyoming, and the United States of America, does hereby make, constitute and appoint

WILLIE LEE YEARY of Jasper State of Texas, with limited authority, its true and lawful Attorney-in-Fact, will full power and authority hereby conferred to sign, execute, acknowledge and deliver for and on its behalf as Surety and as its act and deed, the following bond:

Cable, Conduit and/or Pole Line Activity in, Under, Across or Along Fort Bend
One County Road

bond with bond number: [REDACTED]
for Capital Construction Management Inc.
as Principal in the penalty amount not to exceed: \$ 35,000.00

Western Surety Company further certifies that the following is a true and exact copy of Section 7 of the by-laws of Western Surety Company duly adopted and now in force, to-wit:

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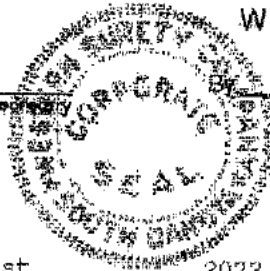
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"RESOLVED: That it is in the best interest of the Company to periodically ratify and confirm any corporate documents signed by digital signatures and to ratify and confirm the use of a digital or otherwise electronic-formatted corporate seal, each to be considered the act and deed of the Company."

In Witness Whereof, the said WESTERN SURETY COMPANY has caused these presents to be executed by its Vice President, Larry Kasten with the corporate seal affixed this 4th day of August, 2023

ATTEST

L. Bauder
L. Bauder, Assistant Secretary



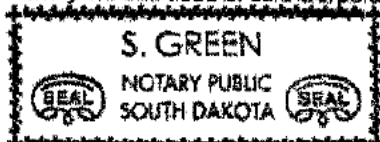
WESTERN SURETY COMPANY

Larry Kasten
Larry Kasten, Vice President

STATE OF SOUTH DAKOTA }
COUNTY OF MINNEHAHA } ss

On this 4th day of August, 2023, before me, a Notary Public, personally appeared Larry Kasten and L. Bauder

who, being by me duly sworn, acknowledged that they signed the above Power of Attorney as Vice President and Assistant Secretary, respectively, of the said WESTERN SURETY COMPANY, and acknowledged said instrument to be the voluntary act and deed of said Corporation.



My Commission Expires February 12, 2027

S. Green
Notary Public

To validate bond authenticity, go to www.cnasurety.com > Owner/Obligee Services > Validate Bond Coverage.

Figure: 28 TAC §1.601(a)(2)(B)

Have a complaint or need help?

If you have a problem with a claim or your premium, call your insurance company or HMO first. If you can't work out the issue, the Texas Department of Insurance may be able to help.

Even if you file a complaint with the Texas Department of Insurance, you should also file a complaint or appeal through your insurance company or HMO. If you don't, you may lose your right to appeal.

Western Surety Company, Surety Bonding Company of America or Universal Surety of America

To get information or file a complaint with your insurance company or HMO:

Call: Customer Service at **1-605-336-0850**
Toll-free: **1-800-331-6053**

Email: uwservices@cnaSurety.com
Mail: P.O. Box 5077, Sioux Falls, SD 57117-5077

The Texas Department of Insurance

To get help with an insurance question or file a complaint with the state:

Call with a question: 1-800-252-3439
File a complaint: www.tdi.texas.gov
Email: ConsumerProtection@tdi.texas.gov
Mail: Consumer Protection, MC: CO-CP, Texas Department of Insurance, P.O. Box 12030, Austin, TX 78711-2030

Tiene una queja o necesita ayuda?

Si tiene un problema con una reclamación o con su prima de seguro, llame primero a su compañía de seguros o HMO. Si no puede resolver el problema, es posible que el Departamento de Seguros de Texas (Texas Department of Insurance, por su nombre en inglés) pueda ayudar.

Aun si usted presenta una queja ante el Departamento de Seguros de Texas, también debe presentar una queja a través del proceso de quejas o de apelaciones de su compañía de seguros o HMO. Si no lo hace, podría perder su derecho para apelar.

Western Surety Company, Surety Bonding Company of America or Universal Surety of America

Para obtener información o para presentar una queja ante su compañía de seguros o HMO:

Llame a: Customer Service at **1-605-336-0850**
Teléfono gratuito: **1-800-331-6053**

Correo electrónico: uwservices@cnaSurety.com
Dirección postal: P.O. Box 5077, Sioux Falls, SD 57117-5077

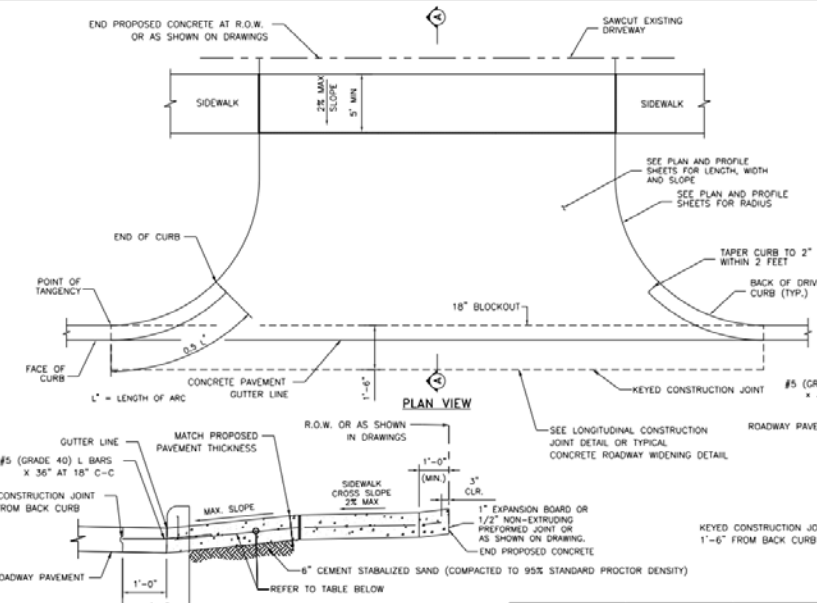
El Departamento de Seguros de Texas

Para obtener ayuda con una pregunta relacionada con los seguros o para presentar una queja ante el estado:

Llame con sus preguntas al: 1-800-252-3439
Presente una queja en: www.tdi.texas.gov

Correo electrónico: ConsumerProtection@tdi.texas.gov
Dirección postal: Consumer Protection, MC: CO-CP, Texas Department of Insurance, P.O. Box 12030, Austin, TX 78711-2030

A:\1704\1801\Fort Bend County Standard\Fort Bend County Standard\Fort Bend County Standard\DRIVEWAY DETAILS FOR MAJOR ROADWAY CONSTRUCTION\DRIVEWAY DETAILS FOR MAJOR ROADWAY CONSTRUCTION.dwg



- NOTES:**
1. SAWCUT EXISTING DRIVEWAY AT R.O.W. LINE OR AS SHOWN ON DRAWING AND REMOVE EXISTING DRIVEWAY TO SAWCUT LINE.
 2. IF THERE IS EXISTING CURB ON DRIVEWAY, CONNECT PROPOSED CURB TO EXISTING CURB OTHERWISE, TAPER CURB HEIGHT AS SHOWN.
 3. SEE PAVEMENT DETAIL SHEET FOR CONCRETE CURB REINFORCEMENT.
 4. THIS DRIVEWAY INSTALLATION IS GOVERNED BY HARRIS COUNTY ITEM 360.

MINIMUM RADII REQUIREMENTS - DRIVEWAYS

	LOCAL	COLLECTOR/MAJOR
RESIDENTIAL	5'	-
COMMERCIAL	10'	25'

	PAVEMENT THICKNESS	COLLECTOR/MAJOR	RESIDENTIAL (MAJOR THROUGHFARE)	RESIDENTIAL (COLLECTORS AND LOCAL STREETS)
REINFORCEMENT	6"	#4 @ 24" O.C.E.W.	N/A	#4 @ 24" O.C.E.W.
	7"	#4 @ 24" O.C.E.W.	#4 @ 24" O.C.E.W.	#4 @ 24" O.C.E.W.
	8"	#4 @ 18" O.C.E.W.	#4 @ 18" O.C.E.W.	#4 @ 18" O.C.E.W.
EXPANSION DOWEL JOINT	6"	3/4" DIA. SMOOTH BAR	3/4" DIA. SMOOTH BAR	3/4" DIA. SMOOTH BAR
	7"	1" DIA. SMOOTH BAR	1" DIA. SMOOTH BAR	1" DIA. SMOOTH BAR
	8"	1" DIA. SMOOTH BAR	1" DIA. SMOOTH BAR	1" DIA. SMOOTH BAR
CONSTRUCTION JOINT DOWEL	ALL	#5 REBAR	#5 REBAR	#5 REBAR
	ALL	6" CEMENT-STABILIZED SAND	2" BANK SAND	2" BANK SAND
SUBGRADE	ALL	6" CEMENT-STABILIZED SAND	2" BANK SAND	2" BANK SAND
RUNNING SLOPE	ALL	2% TO 4%	2% TO 6%	2% TO 10%

*10% ALLOWABLE ON PRIVATELY CONSTRUCTED PROJECTS
6% MAX ON PUBLIC PROJECTS

NO.	REVISIONS	DATE	NAME
1	ORIGINAL STANDARD ISSUED	2-1-21	RBB

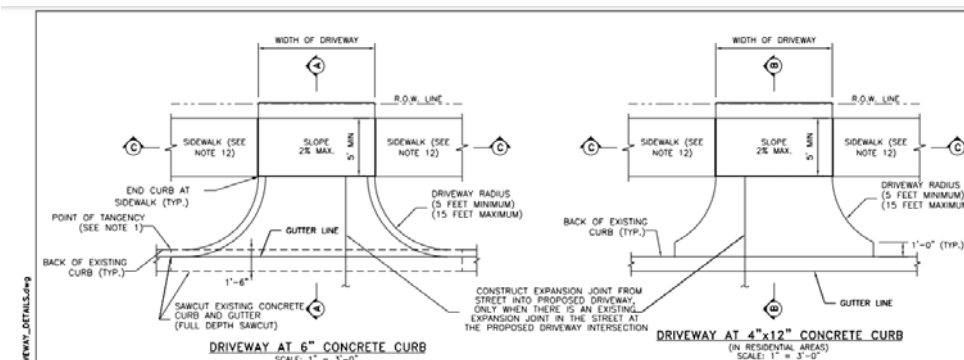
FORT BEND COUNTY
ENGINEERING DEPARTMENT



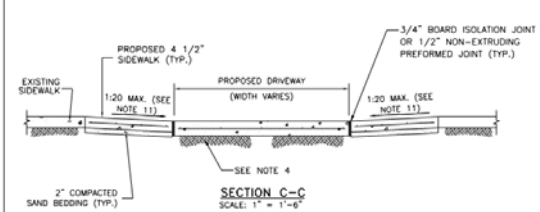
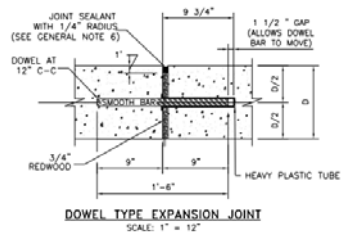
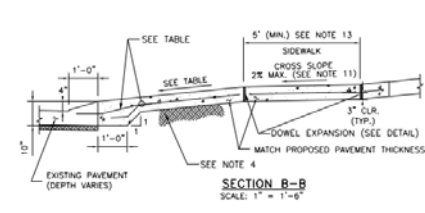
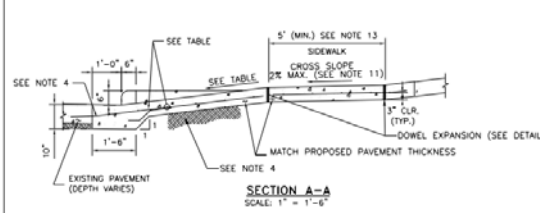
CONSULTANT LOGO
(LAYER "C-NON-PRINT")

FOR INTERIM REVIEW ONLY
DOCUMENT COMPLETE
NOT IN READY FOR CONSTRUCTION
REINFORCEMENT BARBERS
(LAYER "C-NON-PRINT")
P.E. SERIAL NO.
DATE:

PROJECT TITLE:	DATE:	FRCD STANDARD
DRIVEWAY DETAILS FOR MAJOR ROADWAY CONSTRUCTION	2-1-21	# / #



- NOTES:**
1. PROPOSED DRIVEWAY AT 6" CONCRETE CURB SHALL MATCH EXISTING CURB AT POINT OF TANGENCY.
 2. PROPOSED DRIVEWAY SHALL BE BUILT WITH PORTLAND CEMENT CONCRETE, 5 1/2 SACK MINIMUM PER CURE YARD, 3,500 PSI STRENGTH AT 28 DAYS, THIS UNDERLAY INSTALLATION IS GOVERNED BY HARRIS COUNTY ITEM 360.
 3. COMPACTION OF SUBGRADE TO 95% OF STANDARD PROCTOR DENSITY (ASTM D698) (+/- 2% OPTIMUM MOISTURE) FOR PROPOSED DRIVEWAY CONNECTION. THE COUNTY ENGINEER RESERVES THE RIGHT TO INSPECT AND REQUIRE LABORATORY TEST TO BE CONDUCTED.
 4. FOR COMMERCIAL DRIVEWAYS, USE 6" OF COMPACTED CEMENT STABILIZED SAND. FOR RESIDENTIAL DRIVEWAYS, USE 2" OF COMPACTED BANK SAND.
 5. A PROPOSED DRIVEWAY TO BE BUILT ON A CORNER LOT CANNOT BE LOCATED WITHIN ANY PORTION OF THE PUBLIC STREET CURB RADIUS (THE POINTS OF TANGENCY MAY BE THE SAME POINT ALONG THE STREET CURB LINE).
 6. PROPOSED DRIVEWAY REINFORCING STEEL SHALL BE TIED TO EXISTING CONCRETE PAVEMENT WITH A MINIMUM LAP OF 18 INCHES.
 7. IF EXISTING STREET REBAR IS CUT OFF, THEN #4 DOWEL BARS (18" LONG) NEED TO BE INSTALLED AT 24" SPACING, EMBEDDED 9 INCHES AND EXPOSED OR MATCH EXISTING SPACING IF TIGHTER.
 8. 3" NON-METALLIC CHAIRS ARE REQUIRED.
 9. FOR CAPITAL IMPROVEMENT PROJECTS, THE SUBGRADE SHALL BE STABILIZED ACCORDING TO THE GEOTECHNICAL REPORT RECOMMENDATIONS.
 10. SAW AND SEAL ALL CONSTRUCTION JOINTS.
 11. SIDEWALK SLOPES SHALL COMPLY WITH THE TEXAS ACCESSIBILITY STANDARDS 403.3 "SLOPE".
 12. IF SIDEWALK IS EXISTING, SEE SECTION C-C.
 13. SIDEWALKS MAY BE REDUCED TO 4' IN FRONT OF SINGLE-FAMILY RESIDENTIAL LOTS WHEN A 5' PASSING AREA IS PROVIDED IN THE DRIVEWAY.
 14. FOR SIDEWALK DETAILS SEE SIDEWALK DETAILS SHEET



	PAVEMENT THICKNESS	COLLECTOR/MAJOR	RESIDENTIAL (MAJOR THROUGHFARE)	RESIDENTIAL (COLLECTORS AND LOCAL STREETS)
REINFORCEMENT	6"	#4 @ 24" O.C.E.W.	N/A	#4 @ 24" O.C.E.W.
	7"	#4 @ 24" O.C.E.W.	#4 @ 24" O.C.E.W.	#4 @ 24" O.C.E.W.
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	ALL	6" CEMENT-STABILIZED SAND	2" BANK SAND	2" BANK SAND
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RUNNING SLOPE	ALL	2% TO 4%	2% TO 6%	2% TO 10%

*10% ALLOWABLE ON PRIVATELY CONSTRUCTED PROJECTS
6% MAX ON PUBLIC PROJECTS

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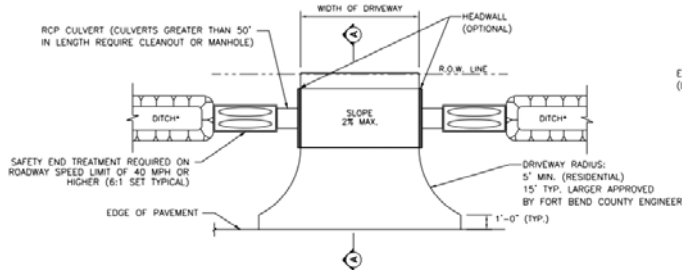
FORT BEND COUNTY
ENGINEERING DEPARTMENT



CONSULTANT LOGO
(LAYER "C-NON-PRINT")

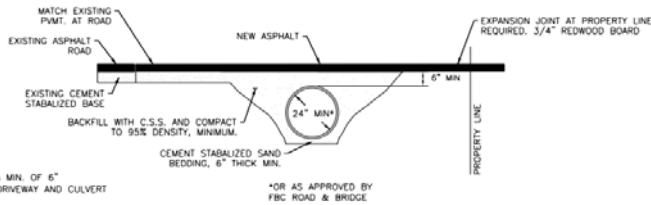
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REINFORCEMENT BARBERS
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P.E. SERIAL NO.
DATE:

PROJECT TITLE:	DATE:	FRCD STANDARD
DRIVEWAY DETAILS FOR RESIDENTIAL DRIVEWAYS	2-1-21	# / #

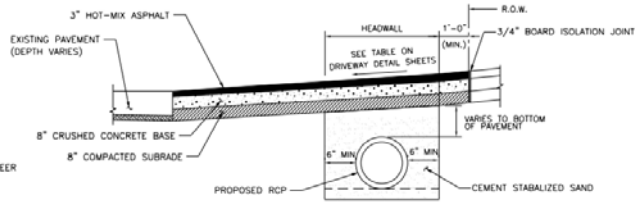


OPEN DITCH DRIVEWAY
*DITCH IS TO HAVE 4:1 SLOPE

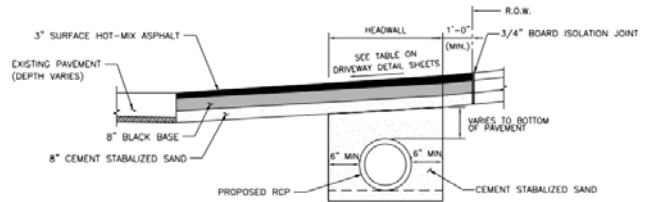
MINIMUM RADI REQUIREMENTS - DRIVEWAYS		
	LOCAL	COLLECTOR/MAJOR
RESIDENTIAL	5'	-
COMMERCIAL	10'	25'



ASPHALT APRON DETAIL - DRIVEWAY PROFILE FOR CULVERT DRAINAGE



SECTION A-A FOR RESIDENTIAL DRIVEWAYS



SECTION A-A FOR COMMERCIAL DRIVEWAYS

NO.	REVISIONS	DATE	NAME
1	ORIGINAL STANDARD ISSUED	2-1-21	FWR
2			
3			
4			

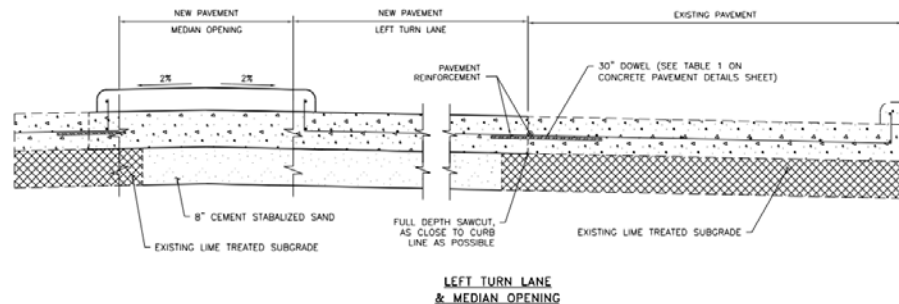
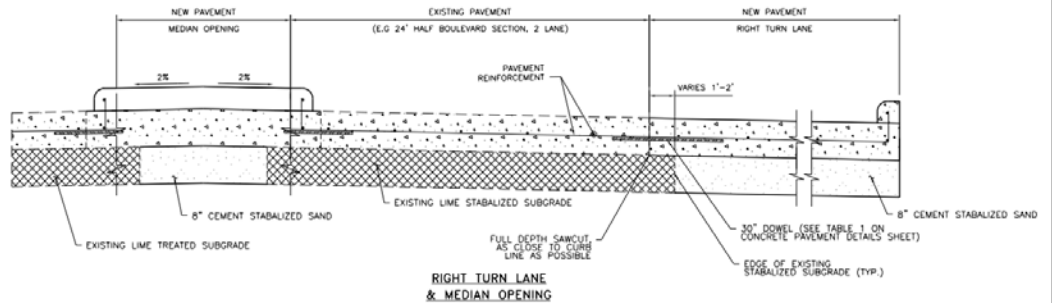
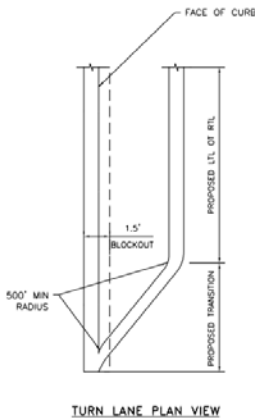
FORT BEND COUNTY ENGINEERING DEPARTMENT



CONSULTANT LOGO (LAYER "C-NON-PRINT")

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DOCUMENT INCOMPLETE:
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BEARING THE RISK OF DAMAGES
(LAYER "C-NON-PRINT")
P.E. SERIAL No.
DATE:

PROJECT TITLE	DRAWN BY	FRSD STANDARD
ASPHALT DRIVEWAY DETAILS	FRSD	
	CHECKED BY	
	SCALE AS NOTED	
	DATE	
	APPROVED BY:	
		SHEET NO. # / #



NOTES
1. FOR CONCRETE PAVEMENT REINFORCEMENT AND JOINT DETAILS, SEE CONCRETE PAVEMENT DETAILS SHEET

NO.	REVISIONS	DATE	NAME
1	ORIGINAL STANDARD ISSUED	2-1-21	FWR
2			
3			
4			

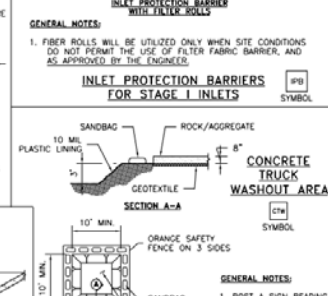
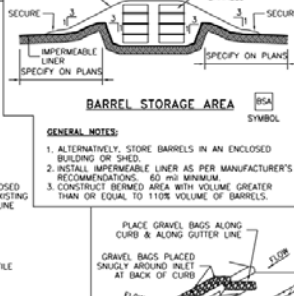
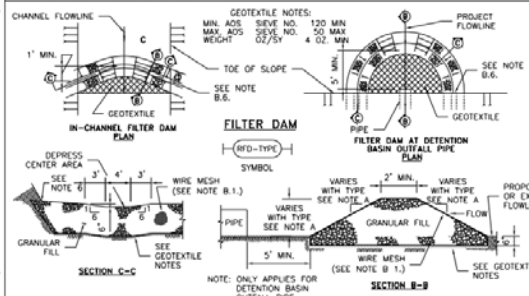
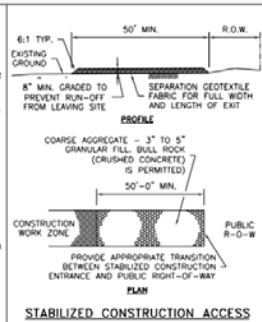
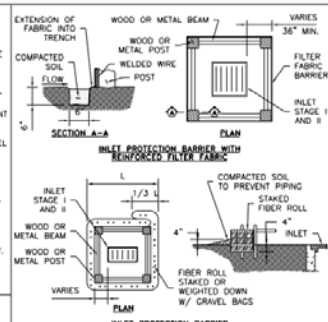
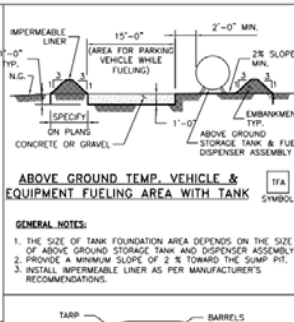
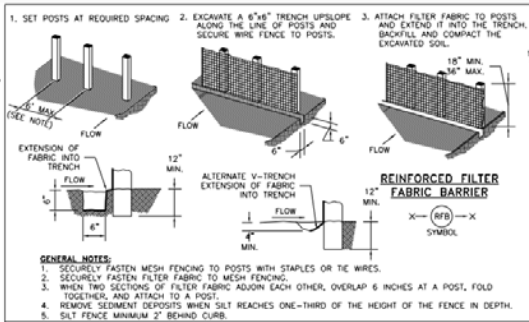
FORT BEND COUNTY ENGINEERING DEPARTMENT



CONSULTANT LOGO (LAYER "C-NON-PRINT")

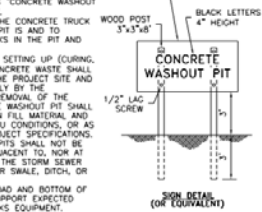
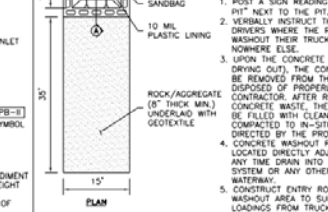
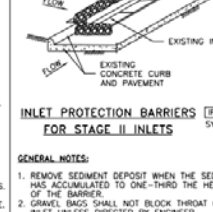
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(LAYER "C-NON-PRINT")
P.E. SERIAL No.
DATE:

PROJECT TITLE	DRAWN BY	FRSD STANDARD
TURN LANE & MEDIAN OPENING DETAIL	FRSD	
	CHECKED BY	
	SCALE AS NOTED	
	DATE	
	APPROVED BY:	
		SHEET NO. # / #



- A. TYPES OF FILTER DAMS**
1. TYPE 1 (NON-REINFORCED)
 - a. HEIGHT - 18-24 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM).
 - c. SLOPES - 2:1 (MAXIMUM).
 2. TYPE 2 (REINFORCED)
 - a. HEIGHT - 18-36 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM).
 - c. SLOPES - 2:1 (MAXIMUM).
 3. TYPE 3 (REINFORCED)
 - a. HEIGHT - 36-48 INCHES. MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM).
 - c. SLOPES - 3:1 (MAXIMUM).
 4. TYPE 4 (GABION)
 - a. HEIGHT - 30 INCHES (MINIMUM). MEASURE VERTICALLY FROM EXISTING GROUND TO TOP OF FILTER DAM.
 - b. TOP WIDTH - 2 FEET (MINIMUM).
 5. TYPE 5. AS SHOWN ON THE PLANS.

- B. CONSTRUCT FILTER DAMS ACCORDING TO THE FOLLOWING CRITERIA UNLESS SHOWN OTHERWISE ON THE PLANS.**
1. TYPE 2 AND 3 FILTER DAMS: SECURE WITH 20 GAUGE GALVANIZED BROWN WIRE MESH WITH 1 INCH DIAMETER HEXAGONAL OPENINGS.
 2. PLACE GRANULAR FILL ON THE WIRE MESH TO HEIGHT AND SLOPES SHOWN ON PLANS OR AS SPECIFIED BY THE ENGINEER.
 3. 3-5 INCHES FOR ROCK FILTER DAM TYPES 1, 2 AND 4.
 4. 4-8 INCHES FOR ROCK FILTER DAM TYPE REFER TO GRANULAR FILL IN SPECIFICATION SECTION NO. 02378 RIPRAP AND GRANULAR FILL.
 3. FOLD WIRE MESH AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURED TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOOD RINGS.
 4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
 5. SEE HCTCD SPECIFICATION SECTION NO. 02364-FILTER DAMS.
 - EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.



NO.	REVISIONS	DATE	NAME
1	ORIGINAL STANDARD ISSUED	2-1-21	RWB

FORT BEND COUNTY
ENGINEERING DEPARTMENT



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DATE _____

PROJECT TITLE:	DRAWING BY:	FIXED STANDARD
STORM WATER POLLUTION PREVENTION PLAN DETAILS	RWB	