



**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](mailto:Permits@fortbendcountytx.gov)

☐

**Right of Way Permit**

☒

**Commercial Driveway Permit**

Permit No: 2021-47376

**Applicant:** AB LAND COMPANY

**Job Location Site:** 402 Trammell Fresno, Fresno, TX 77545

**Bond No.**                      **Date of Bond:** 9/13/2021 **Amount:** \$5,000.00

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:
  - a. 48 hours in advance of construction start up, and
  - b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru [MyGovernmentOnline.org](https://mygovernmentonline.org) portal.
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 28th day of September, 2021, 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**

By:

                      
County Engineer

N/A

By:

                      
Drainage District Engineer/Manager

Presented to Commissioners Court and approved.

Date Recorded \_\_\_\_\_ Comm. Court No. \_\_\_\_\_

Clerk of Commissioners Court

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@fortbendcountytexas.gov](mailto:Permits@fortbendcountytexas.gov)

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**Right of Way Permit**

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**Commercial Driveway Permit**

Permit No: 2021-47376

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:**

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

**(2) BOND:**

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County Attorney, approval when applicable.

☐

Perpetual bond currently posted.

Bond No: \_\_\_\_\_

Amount: \_\_\_\_\_

☒

Performance bond submitted.

Bond No: [REDACTED]

Amount: \$5,000.00

☐

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

9/20/2021

\_\_\_\_\_  
Date

**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, AB LAND COMPANY whose is 6009 RICHMOND AVE STE 224 HOUSTON, 77057 Texas, hereinafter called the Principal, and The Ohio Casualty Insurance Company, a Corporation existing under and by virtue of the laws of the state of New Hampshire and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at 175 Berkeley Street Boston MA 02116 , whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought within said state is Michelle Harrell and whose address is 9235 Katy Fwy Ste 390 Houston, TX 77024, 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 Five Thousand Dollars (\$ 5,000 ) 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.

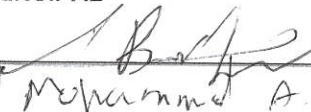
This bond is payable at the County Courthouse in the County of Fort Bend and State of Texas.

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 13<sup>th</sup> day of September , 2021 .



AB LAND COMPANY  
PRINCIPAL

BY   
The Ohio Casualty Insurance Company

SURETY

  
BY Michelle Harrell, Attorney-in-Fact



This Power of Attorney limits the acts of those named herein, and they have no authority to bind the Company except in the manner and to the extent herein stated.

The Ohio Casualty Insurance Company

## POWER OF ATTORNEY

Surety Bond Number:                      Principal: AB LAND COMPANY

Bond Amount: (\$5,000.00) Five Thousand Dollars And Zero Cents

KNOW ALL PERSONS BY THESE PRESENTS: that The Ohio Casualty Insurance Company, a corporation duly organized under the laws of the State of New Hampshire (herein collectively called the "Company"), pursuant to and by authority herein set forth, does hereby name, constitute and appoint, Michelle Harrell

all in the city of Houston, state of Texas each individually if there be more than one named, its true and lawful attorney-in-fact to make, execute, seal, acknowledge and deliver, for and on its behalf as surety and as its act and deed, any and all undertakings, bonds, recognizances and other surety obligations, in pursuance of these presents and shall be as binding upon the Companies as if they have been duly signed by the president and attested by the secretary of the Company in their own proper persons.

IN WITNESS WHEREOF, this Power of Attorney has been subscribed by an authorized officer or official of the Company and the corporate seal of the Company has been affixed thereto this 26th day of September, 2016.



The Ohio Casualty Insurance Company

By: David M. Carey  
David M. Carey, Assistant Secretary

STATE OF PENNSYLVANIA  
COUNTY OF MONTGOMERY ss

On this 26th day of September, 2016, before me personally appeared David M. Carey, who acknowledged himself to be the Assistant Secretary of The Ohio Casualty Insurance Company and that he, as such, being authorized so to do, execute the foregoing instrument for the purposes therein contained by signing on behalf of the corporations by himself as duly authorized officer.

IN WITNESS WHEREOF, I have hereunto subscribed my name and affixed my notarial seal at King of Prussia, Pennsylvania, on the day and year first above written.



Commonwealth of Pennsylvania - Notary Seal  
Teresa Pastella, Notary Public  
Montgomery County  
My commission expires March 28, 2025  
Commission number 1126044  
Member, Pennsylvania Association of Notaries

By: Teresa Pastella  
Teresa Pastella, Notary Public

This Power of Attorney is made and executed pursuant to and by authority of the following By-law and Authorizations of The Ohio Casualty Insurance Company, which is now in full force and effect reading as follows:

**ARTICLE IV - OFFICERS - Section 12. Power of Attorney.** Any officer or other official of the Corporation authorized for that purpose in writing by the Chairman or the President, and subject to such limitation as the Chairman or the President may prescribe, shall appoint such attorneys-in-fact, as may be necessary to act in behalf of the Corporation to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations. Such attorneys-in-fact, subject to the limitations set forth in their respective powers of attorney, shall have full power to bind the Corporation by their signature and executed, such instruments shall be as binding as if signed by the President and attested to by the Secretary. Any power or authority granted to any representative or attorney-in-fact under the provisions of this article may be revoked at any time by the Board, the Chairman, the President or by the officer or officers granting such power or authority.

**Certificate of Designation -** The President of the Company, acting pursuant to the Bylaws of the Company, authorizes David M. Carey, Assistant Secretary to appoint such attorneys-in-fact as may be necessary to act on behalf of the Company to make, execute, seal, acknowledge and deliver as surety any and all undertakings, bonds, recognizances and other surety obligations.

**Authorization -** By unanimous consent of the Company's Board of Directors, the Company consents that facsimile or mechanically reproduced signature of any assistant secretary of the Company, wherever appearing upon a certified copy of any power of attorney issued by the Company in connection with surety bonds, shall be valid and binding upon the Company with the same force and effect as though manually affixed.

I, Renee C. Llewellyn, the undersigned, Assistant Secretary, of The Ohio Casualty Insurance Company do hereby certify that the original power of attorney of which the foregoing is a full, true and correct copy of the Power of Attorney executed by said Company, is in full force and effect and has not been revoked.

IN TESTIMONY WHEREOF, I have hereunto set my hand and affixed the seals of said Company this 13th day of September, 2021.

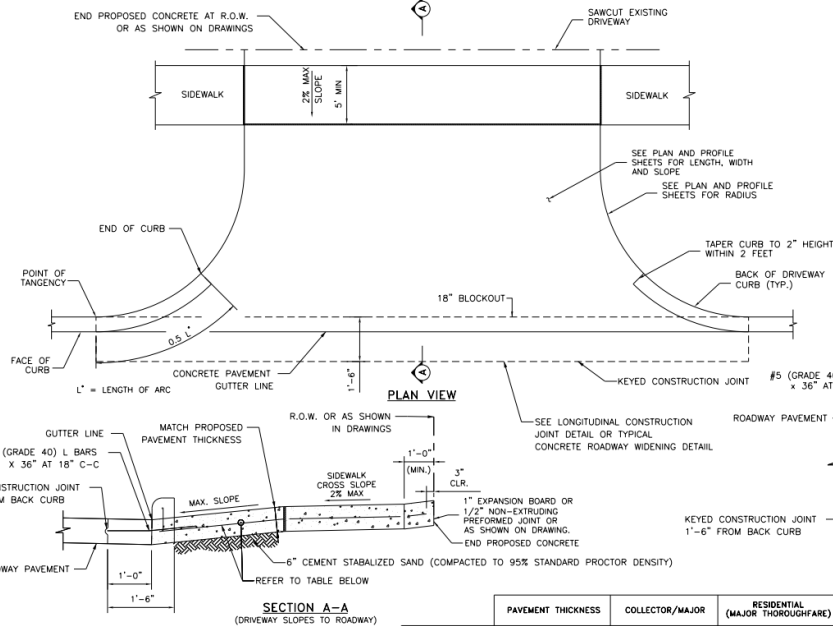


By: Renee C. Llewellyn  
Renee C. Llewellyn, Assistant Secretary

Not valid for mortgage, note, loan, letter of credit, currency rate, interest rate or residual value guarantees.

For bond and/or Power of Attorney (POA) verification inquiries, please call 610-832-8240 or email HOSUR@libertymutual.com.

J:\1704\1804\Fort Bend County Standard\Fort Bend County STD\DRIVEWAY CONSTRUCTION\DRIVEWAY DETAILS FOR MAJOR ROADWAY CONSTRUCTION.dwg

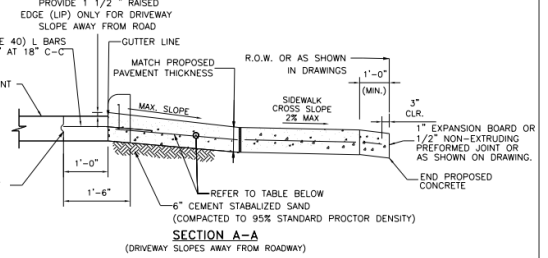


#### NOTES:

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 THOROUGHFARE) | 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.                          |
|                          | 9"-10"             | #5 @ 18" O.C.E.W.         | #5 @ 18" O.C.E.W.                | #5 @ 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                         |
|                          | 9"-10"             | 1 1/2" DIA. SMOOTH BAR    | 1 1/2" DIA. SMOOTH BAR           | 1 1/2" DIA. SMOOTH BAR                     |
| CONSTRUCTION JOINT DOWEL | ALL                | #5 REBAR                  | #5 REBAR                         | #5 REBAR                                   |
| 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 | RWB  |

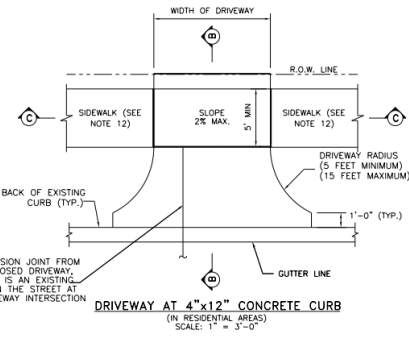
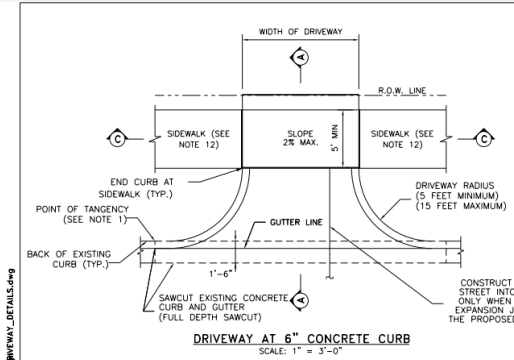
FORT BEND COUNTY  
ENGINEERING DEPARTMENT



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

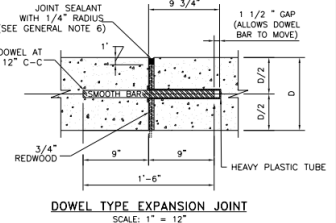
FOR INTERIM REVIEW ONLY  
DOCUMENT INCOMPLETE:  
NOT APPROVED FOR CONSTRUCTION.  
REWORK REQUIRED FOR SUBMITTAL.  
(LAYER "C-NON-PRINT")  
P.E. SERIAL NO.  
DATE:

| PROJECT TITLE:                                     | DATE:  | REVISION: |
|----------------------------------------------------|--------|-----------|
| DRIVEWAY DETAILS FOR<br>MAJOR ROADWAY CONSTRUCTION | 2-1-21 | 1         |



#### 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 CUBIC YARD, 3,500 PSI STRENGTH AT 28 DAYS. THIS DRIVEWAY INSTALLATION IS GOVERNED BY HARRIS COUNTY ITEM 360.
3. COMPACTION OF SUBGRADE TO 95% OF STANDARD PROCTOR DENSITY (ASTM D698) (A 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 16 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 EPOXYED 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



#### DOWEL TYPE EXPANSION JOINT

SCALE: 1" = 12"

|                          | PAVEMENT THICKNESS | COLLECTOR/MAJOR           | RESIDENTIAL (MAJOR THOROUGHFARE) | 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.                          |
|                          | 9"-10"             | #5 @ 18" O.C.E.W.         | #5 @ 18" O.C.E.W.                | #5 @ 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                         |
|                          | 9"-10"             | 1 1/2" DIA. SMOOTH BAR    | 1 1/2" DIA. SMOOTH BAR           | 1 1/2" DIA. SMOOTH BAR                     |
| CONSTRUCTION JOINT DOWEL | ALL                | #5 REBAR                  | #5 REBAR                         | #5 REBAR                                   |
| 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 | RWB  |

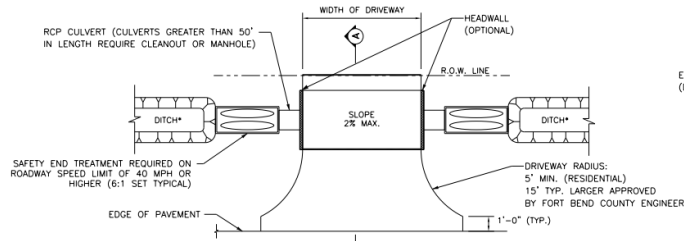
FORT BEND COUNTY  
ENGINEERING DEPARTMENT



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

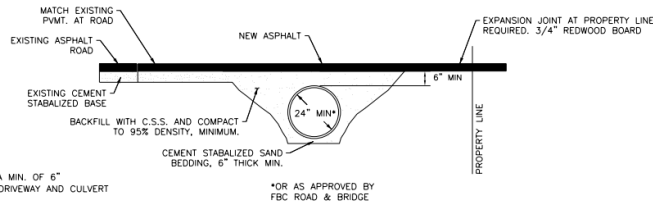
FOR INTERIM REVIEW ONLY  
DOCUMENT INCOMPLETE:  
NOT APPROVED FOR CONSTRUCTION.  
REWORK REQUIRED FOR SUBMITTAL.  
(LAYER "C-NON-PRINT")  
P.E. SERIAL NO.  
DATE:

| PROJECT TITLE:                                | DATE:  | REVISION: |
|-----------------------------------------------|--------|-----------|
| DRIVEWAY DETAILS FOR<br>RESIDENTIAL DRIVEWAYS | 2-1-21 | 1         |

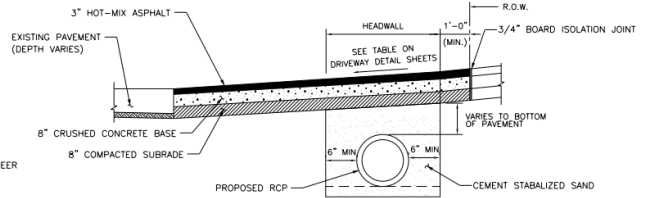


OPEN DITCH DRIVEWAY  
\*DITCH IS TO HAVE 4:1 SLOPE

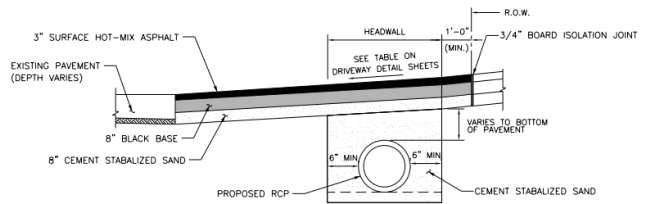
|             | MINIMUM RADII REQUIREMENTS - DRIVEWAYS |                 |
|-------------|----------------------------------------|-----------------|
|             | LOCAL                                  | COLLECTOR/MAJOR |
| RESIDENTIAL | 5'                                     | -               |
| 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 | RWB  |
| 2   |                          |        |      |
| 3   |                          |        |      |
| 4   |                          |        |      |
| 5   |                          |        |      |

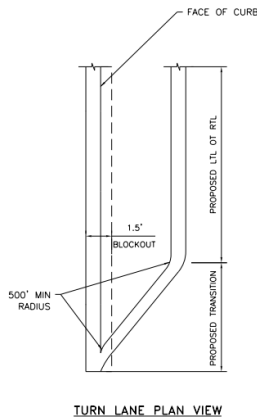
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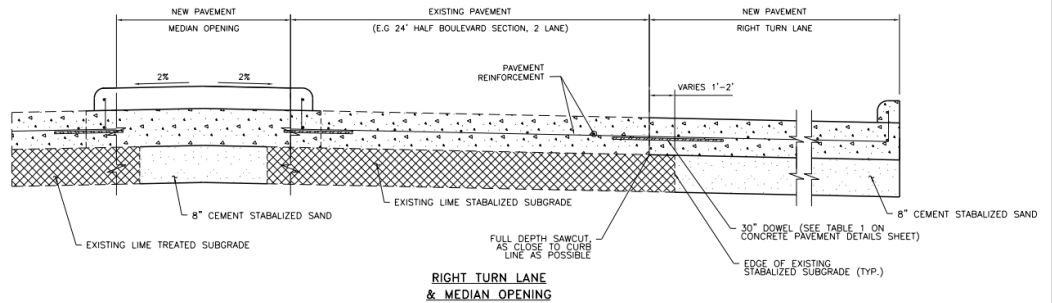
CONSULTANT LOGO  
(LAYER "C-NON-PRINT")

FOR INTERIM REVIEW ONLY  
DOCUMENT INCOMPLETE.  
NOT APPROVED FOR CONSTRUCTION.  
BENDING/REINFORCING REBAR  
(LAYER "C-NON-PRINT")  
P.E. SERIAL NO.  
DATE:

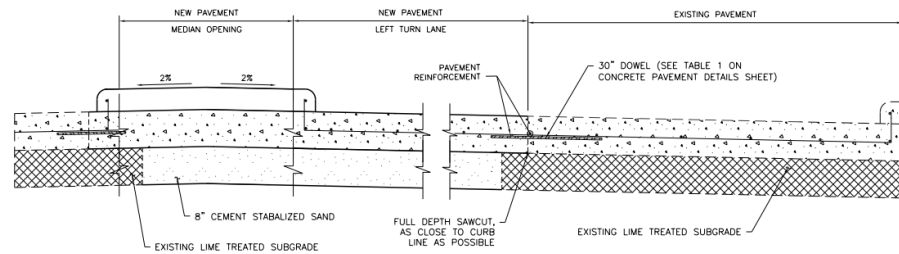
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|--------------------------|-----------|-------------|--------|--------------|-------------|
| ASPHALT DRIVEWAY DETAILS | INIT      | INIT        | 2-1-21 |              |             |
|                          |           |             |        |              |             |
|                          |           |             |        |              |             |
|                          |           |             |        |              |             |
|                          |           |             |        |              |             |



TURN LANE PLAN VIEW



RIGHT TURN LANE  
& MEDIAN OPENING



LEFT TURN LANE  
& MEDIAN OPENING

- NOTES
- FOR CONCRETE PAVEMENT REINFORCEMENT AND JOINT DETAILS, SEE CONCRETE PAVEMENT DETAILS SHEET

| NO. | REVISIONS                | DATE   | NAME |
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| 1   | ORIGINAL STANDARD ISSUED | 2-1-21 | RWB  |
| 2   |                          |        |      |
| 3   |                          |        |      |
| 4   |                          |        |      |
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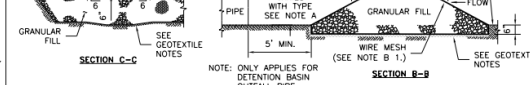
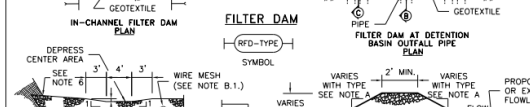
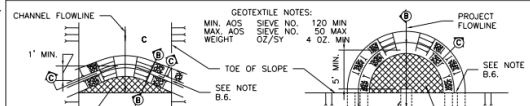
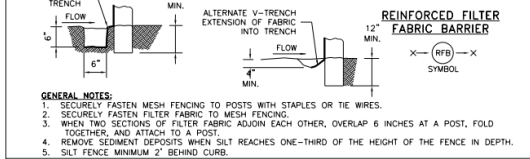
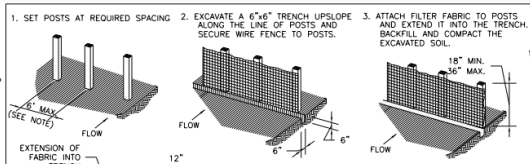
FORT BEND COUNTY  
ENGINEERING DEPARTMENT



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

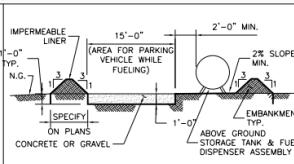
FOR INTERIM REVIEW ONLY  
DOCUMENT INCOMPLETE.  
NOT APPROVED FOR CONSTRUCTION.  
BENDING/REINFORCING REBAR  
(LAYER "C-NON-PRINT")  
P.E. SERIAL NO.  
DATE:

| PROJECT TITLE:                    | DRAWN BY: | CHECKED BY: | DATE:  | APPROVED BY: | PROJECT NO. |
|-----------------------------------|-----------|-------------|--------|--------------|-------------|
| TURN LANE & MEDIAN OPENING DETAIL | INIT      | INIT        | 2-1-21 |              |             |
|                                   |           |             |        |              |             |
|                                   |           |             |        |              |             |
|                                   |           |             |        |              |             |
|                                   |           |             |        |              |             |



- 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 WOVEN 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. FOLD WIRE MESH AT UPSTREAM SIDE OVER GRANULAR FILL AND TIGHTLY SECURE TO ITSELF ON THE DOWNSTREAM SIDE USING WIRE TIES OR HOD RINGS.
  4. IN STREAMS: SECURE OR STAKE MESH TO STREAM BED PRIOR TO AGGREGATE PLACEMENT.
  5. SEE HFCDD SPECIFICATION SECTION NO. 02364-FILTER DAMS.
  6. EMBED ONE FOOT MINIMUM INTO SLOPE AND RAISE ONE FOOT HIGHER THAN CENTER OF DEPRESSED AREA AT SLOPE.

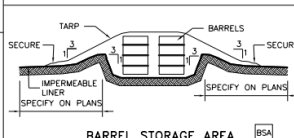
| NO. | REVISIONS                | DATE   | NAME |
|-----|--------------------------|--------|------|
| 1   | ORIGINAL STANDARD ISSUED | 2-1-21 | RWB  |
| 2   |                          |        |      |
| 3   |                          |        |      |
| 4   |                          |        |      |
| 5   |                          |        |      |



**ABOVE GROUND TEMP. VEHICLE & EQUIPMENT FUELING AREA WITH TANK**

**GENERAL NOTES:**

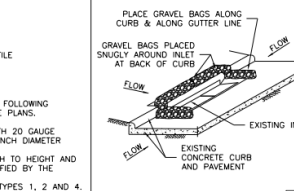
1. THE SIZE OF TANK FOUNDATION AREA DEPENDS ON THE SIZE OF ABOVE GROUND STORAGE TANK AND DISPENSER ASSEMBLY.
2. PROVIDE A MINIMUM SLOPE OF 2 % TOWARD THE SUMP PIT.
3. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS.



**BARREL STORAGE AREA**

**GENERAL NOTES:**

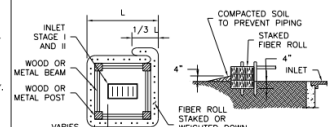
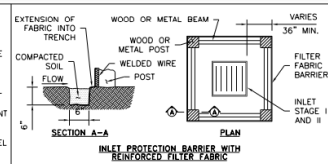
1. ALTERNATIVELY, STORE BARRELS IN AN ENCLOSED BUILDING OR SHED.
2. INSTALL IMPERMEABLE LINER AS PER MANUFACTURER'S RECOMMENDATIONS. 60 mil MINIMUM.
3. CONSTRUCT BERMED AREA WITH VOLUME GREATER THAN OR EQUAL TO 110% VOLUME OF BARRELS.



**INLET PROTECTION BARRIERS FOR STAGE II INLETS**

**GENERAL NOTES:**

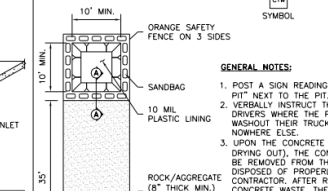
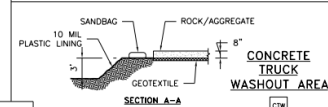
1. REMOVE SEDIMENT DEPOSIT WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.
2. GRAVEL BAGS SHALL NOT BLOCK THROAT OF INLET UNLESS DIRECTED BY ENGINEER.



**INLET PROTECTION BARRIERS FOR STAGE I INLETS**

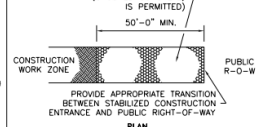
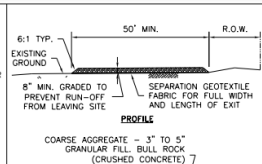
**GENERAL NOTES:**

1. FIBER ROLLS WILL BE UTILIZED ONLY WHEN SITE CONDITIONS DO NOT PERMIT THE USE OF FILTER FABRIC BARRIER, AND AS APPROVED BY THE ENGINEER.



**GENERAL NOTES:**

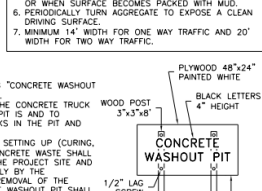
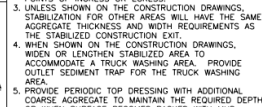
1. POST A SIGN READING "CONCRETE WASHOUT PIT" NEXT TO THE PIT.
2. VERBALLY INSTRUCT THE CONCRETE TRUCK DRIVERS WHERE THE PIT IS AND TO WASHOUT THEIR TRUCKS IN THE PIT AND NOWHERE ELSE.
3. UPON THE CONCRETE SETTING UP (CURING, DRYING OUT), THE CONCRETE WASTE SHALL BE REMOVED FROM THE PROJECT SITE AND DISPOSED OF PROPERLY BY THE CONTRACTOR. AFTER REMOVAL OF THE CONCRETE WASTE, THE WASHOUT PIT SHALL BE FILLED WITH CLEAN FILL MATERIAL AND COMPACTED TO IN-SITU CONDITIONS, OR AS DIRECTED BY THE PROJECT SPECIFICATIONS.
4. CONCRETE WASHOUT PITS SHALL NOT BE LOCATED DIRECTLY ADJACENT TO, NOR AT ANY TIME DRAIN INTO THE STORM SEWER SYSTEM OR ANY OTHER SWALE, DITCH, OR WATERWAY.
5. CONSTRUCT ENTRY ROAD AND BOTTOM OF WASHOUT AREA TO SUPPORT EXPECTED LOADINGS FROM TRUCKS EQUIPMENT.



**STABILIZED CONSTRUCTION ACCESS**

**GENERAL NOTES:**

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION EXIT WITH CONSTANT WIDTH ACROSS ITS LENGTH, INCLUDING ALL POINTS OF INGRESS OR EGRESS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION EXIT.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDEN OR LENGTHEN STABILIZED AREA TO ACCOMMODATE A TRUCK WASHING AREA. PROVIDE OUTLET SEDIMENT TRAP FOR THE TRUCK WASHING AREA.
5. PROVIDE PERIODIC TOP DRESSING WITH ADDITIONAL COARSE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH OR WHEN SURFACE BECOMES PACKED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRIVING SURFACE.
7. MINIMUM 14' WIDTH FOR ONE WAY TRAFFIC AND 20' WIDTH FOR TWO WAY TRAFFIC.



**CONCRETE WASHOUT PIT**

**SIGN DETAIL (OR EQUIVALENT)**

FORT BEND COUNTY  
ENGINEERING DEPARTMENT



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

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NOT INTENDED FOR CONSTRUCTION.  
NO MEANING TO BE MADE.  
(LAYER "C-NON-PRINT")  
P.E. SERIAL NO. DATE.

| PROJECT TITLE:                                | DRAWN BY: | CHECKED BY: | DATE:  |
|-----------------------------------------------|-----------|-------------|--------|
| STORM WATER POLLUTION PREVENTION PLAN DETAILS | INT       | INT         | 2-1-21 |
| SHEET DESCRIPTION:                            | SCALE:    | DATE:       |        |
| APPROVED BY:                                  |           |             |        |

SHEET NO. 1