

### 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
X	Commercial Driveway Permit
Perr	mit No: 2017-16310

The following "Notice of Proposed Cable, Condrattachments have been reviewed and the notic of Fort Bend County, Texas.			
(1) COMPLETE APPLICATION FORM:			
X a. Name of road, street, and/or	drainage ditch affected	<b>I</b> .	
X b. Vicinity map showing course of	of directions		
X c. Plans and specifications			
(2) BOND:			
County Attorney, approval when applicable.	1		
Perpetual bond currently posted.	Bond No:	Amount:	
X Performance bond submitted.	Bond No:	Amount: \$10,000.00	
Cashier's Check	Check No:	Amount:	
(3) DRAINAGE DISTRICT APPROVAL (WHE	N APPLICABLE): -	Date	
We have reviewed this project and agree it n	neets minimum requir	ements.	
Charles O. Af		10/30/201	7
Permit Administrator		Date	



Drainage District Engineer/Manager

## REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

### Fort Bend County Engineering Department 301 Jackson Suite 401

301 Jackson Suite 401 Richmond, Texas 77469 281.633.7500

Permits@fortbendcountytx.gov

Walter Company	Right of Way F  X Commercial D  Permit No: 2017-16	riveway Permit				
	Applicant: Brewer Custom Builders, LLC/Huston Design Build  Job Location Site: 7575 Fairchild Road, Richmond, TX 77469					
Bond	Bond No Date of Bond:10/12/2017 _ Amount: \$10,000.00					
Layin Road Comi Texas	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 inconsistant with Chapter 181, Vernon's Texas Statutes and Codes Annoted.					
Note 1. 2.	Evidence of review by the Commissioners Court me grounds for job shutdown.  Written notices are required:  a. 48 hours in advance of construction s	ready for final inspection, submit notification to Permit nline.org portal.				
On this 7th day of November, 2017, 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.						
Signa	ature	Presented to Commissioners Court and approved.				
Ву:	Charly O. All County Engineer	Date Recorded Comm. Court No				
By:	N/A	Clerk of Commissioners Court  By:				

Deputy

# 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

THE STATE OF TEXAS	§	· · · · · · · · · · · · · · · · · · ·
COUNTY OF FORT BEND	§	KNOW ALL MEN BY THESE PRESENTS:
THAT WE, BREWER CO 7102 SPRING RUN LANE, KA Corporation existing under and business in the state of Texa whose officer residing in the St Keenan Lehmann hereinafter called the Surety, and or his successors in office, in the current, lawful money of the Unit Texas, or his successors in office	USTOM BUILDEI TY, TX 77494 d by virtue of the as, and whose pr ate of Texas, aut and held and firmly he full sum of Ten ited States of Ame	hereinafter called the Principal, and Merchants Bonding Company (Mutual), a laws of the state of Iowa and authorized to do an indemnifying rincipal office is located at 6700 Westown Parkway, West Des Moines, IA 50266, thorized to accept service in all suits and actions brought within said state is and whose address is 9500 Arboretum Boulevard, Suite 100, Austin, TX 78759, bound unto, Robert E. Hebert, County Judge of Fort Bend County, Texas.
constructing, maintaining and/oroads, streets and highways, or the State of Texas, under the Commissioners' Court order accommissioners'	or repairing one of commercial drivew by jurisdiction of the dopted on the 1st county, Texas, regions.	UCH THAT, WHEREAS, the above bounden principal contemplates laying, or more cables, conduits, and/or pole lines in, under, across and/or along vay and median openings or modifications in the County of Fort Bend, and the Commissioners' Court of Fort Bend County, Texas, pursuant to the tof December, A.D. 1980, recorded in Volume 13, of the Commissioners' ulating same, which Commissioners' Court order is hereby referred to and lly set out herein;
AND WHEREAS, the p conduit and/or pole line activity	rincipal desires to , commercial driv	provide Fort Bend County with a performance bond covering all such cable, eway and median openings or modifications;
activity (including, but not limite in, under, across and/or along the County of Fort Bend and St pursuant to and in accordance order set forth and specified to shall pay over and make good a	d to the laying, co roads, streets and ate of Texas, und with minimum re be by said princip and reimburse Fo	nden principal shall faithfully perform all its cable, conduit and/or pole line onstruction, maintenance and/or repair of cables, conduits and/or pole lines) of highways, commercial driveway and median openings or modifications in der the jurisdiction of the Commissioners Court of Fort Bend County, Texas, equirements and conditions of the above mentioned Commissioners' Court hal done and performed, at the time and in the manner therein specified, and hort Bend County, all loss and damages which Fort Bend County may sustain said principal, then this obligation shall be null and void, otherwise to remain
This bond is payable at	t the County Cou	rthouse in the County of Fort Bend and State of Texas.
It is understood that at a additional bonds of the principa	any time Fort Ben I.	d County deems itself insecure under this bond, it may require further and/or
EXECUTED this 12th	day of (	BREWER CUSTOM BUILDERS, LLC PRINCIPAL BY JAMES COUNCE Merchants Bonding Company (Mutual)

SURETY



Know All Persons By These Presents, that MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., both being corporations of the State of Iowa (herein collectively called the "Companies") do hereby make, constitute and appoint, individually,

#### Molly Reagan Salazar

their true and lawful Attorney(s)-in-Fact, to sign its name as surety(ies) and to execute, seal and acknowledge any and all bonds, undertakings, contracts and other written instruments in the nature thereof, on behalf of the Companies in their business of guaranteeing the fidelity of persons, guaranteeing the performance of contracts and executing or guaranteeing bonds and undertakings required or permitted in any actions or proceedings allowed by law.

This Power-of-Attorney is granted and is signed and sealed by facsimile under and by authority of the following By-Laws adopted by the Board of Directors of Merchants Bonding Company (Mutual) on April 23, 2011 and amended August 14, 2015 and adopted by the Board of Directors of Merchants National Bonding, Inc., on October 18, 2015.

"The President, Secretary, Treasurer, or any Assistant Treasurer or any Assistant Secretary or any Vice President shall have power and authority to appoint Attorneys-in-Fact, and to authorize them to execute on behalf of the Company, and attach the seal of the Company thereto, bonds and undertakings, recognizances, contracts of indemnity and other writings obligatory in the nature thereof."

"The signature of any authorized officer and the seal of the Company may be affixed by facsimile or electronic transmission to any Power of Attorney or Certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligations of the Company, and such signature and seal when so used shall have the same force and effect as though manually fixed."

In connection with obligations in favor of the Florida Department of Transportation only, it is agreed that the power and aut hority hereby given to the Attorney-in-Fact includes any and all consents for the release of retained percentages and/or final estimates on engineering and construction contracts required by the State of Florida Department of Transportation. It is fully understood that consenting to the State of Florida Department of Transportation making payment of the final estimate to the Contractor and/or its assignee, shall not relieve this surety company of any of its obligations under its bond.

In connection with obligations in favor of the Kentucky Department of Highways only, it is agreed that the power and authority hereby given to the Attorney-in-Fact cannot be modified or revoked unless prior written personal notice of such intent has been given to the Commissioner-Department of Highways of the Commonwealth of Kentucky at least thirty (30) days prior to the modification or revocation.

In Witness Whereof, the Companies have caused this instrument to be signed and sealed this 12th day of

October

. 2017 .

MERCHANTS BONDING COMPANY (MUTUAL) MERCHANTS NATIONAL BONDING, INC.

COUNTY OF DALLAS \$8.

STATE OF IOWA

On this this 12th day of October , 2017 , before me appeared Larry Taylor, to me personally known, who being by me duly sworn did say that he is President of MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC.; and that the seals affixed to the foregoing instrument are the Corporate Seals of the Companies; and that the said instrument was signed and sealed in behalf of the Companies by authority of their respective Boards of Directors.



**ALICIA K. GRAM** 

Commission Number 767430 My-Commission Expires

April 1, 2020

Notary Public

(Expiration of notary's commission does not invalidate this instrument)

I, William Warner, Jr., Secretary of MERCHANTS BONDING COMPANY (MUTUAL) and MERCHANTS NATIONAL BONDING, INC., do hereby certify that the above and foregoing is a true and correct copy of the POWER-OF-ATTORNEY executed by said Companies, which is still in full force and effect and has not been amended or revoked.

In Witness Whereof, I have hereunto set my hand and affixed the seal of the Companies on this 12th day of

October

. 2017 .

2003

William Harrer Jo. Secretary

### **PROPOSED**

## **CIVIL PLANS**

**FOR** 

## SE CONTRACTORS

## 7575 FAIRCHILD RD FORT BEND COUNTY

## **DRAWING INDEX**

COVER PLAT

C1.1 GENERAL NOTES

C2.1 C2.2 DRAINAGE PLAN

PUMP DETAILS

MISCELLANEOUS DETAILS
STORM WATER POLLUTION PREVENTION PLAN DETAILS
BACK SLOPE DETAILS
PAVEMENT DETAILS

PAVEMENT DETAILS TRAFFIC CONTROL PLAN

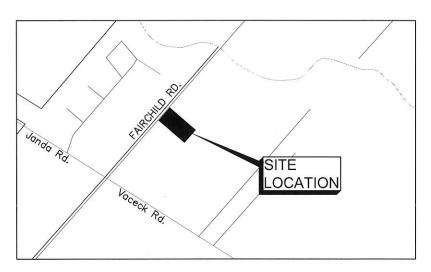
FIRE ACCESS PLAN

ON-SITE SEWAGE FACILITY PLAN

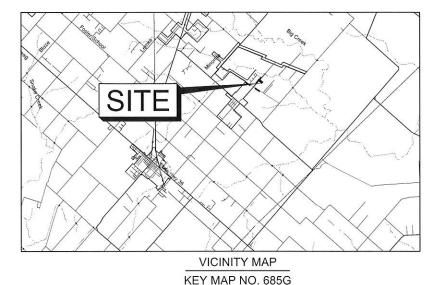
FORT BEND COUNTY ENGINEER

4/25/17

THESE SIGNATURES ARE VOID IF CONSTRUCTION HAS NOT COMMENCED IN (1) YEAR FROM DATE OF APPROVAL.



LOCATION MAP



**ZIP CODE 77469** 

CONSULTING ENGINEERS TEXAS REGISTERED ENGINEERING FIRM F-9756 2500 Tanglewilde, Suite 120 Houston, Texas 77063 713.789.1900

APRIL 2017

WGA PROJECT No. 40009-021



STATE OF TEXAS COUNTY OF FORT BEND

FURTHER, Owner does hereby admowledge the receipt of the "Order for Regulation of Lighting in the Unincorporated Areas of Fort Bend County, Texas", and do hereby it and shall and shall comply with this order as adopted by the Fort Bend Commissioners Court on March 23, 2004, and any subsequent gamendments.

WTNESS our hands in Fort Bend County, Texas, this the 31d day of March. 2017.

COUNTY OF HOLDIS

BEFORE ME, the undersigned outhority, on this day personally appeared Frasmo Solvador and Einer Solvador, known to me to be the persons whose names are subscribed to the foregoing instrument and acknowledged to me that they executed the same for the purposes and considerations therein expressed.

GIVEN UNDER MY HAND AND SEAL OF OFFICE, this the 300 day of 100 (C) 2017.

523 BELL 50°C, Critic of Cass 5x3/sa 07-03-20 10 1235746-53

July 03, 2018

My Commission Expires:



3 3 /17 Date



This plot of FAIRCHILD BUILDING was approved on the Slat day of MULL

2017, by the City of Fairchilds City Commission, and day of MULL

signed this the Slat day of MULL

however, this approval shall be invalid, and null, and void, unless this plot is filled with the County Clerk of Fort Bend County, Texas, within six (6) months hereafter.

Both Honel Home: Na Yell Bob Haenel Janes Vauch Name: Secritary Janis Vacek

#### DISTRICT NAMES

WCID	N/A		
MUD	N/A		
LID	N/A		
DID	FBC DRAINAGE		
SCHOOL	NEEDVILLE ISD		
FIRE	FAIRCHILDS		
IMPACT FEE AREA	NONE		
CITY OR CITY ETJ	VILLAGE OF FAIRCHILDS ETJ		
UTILITIES CO.	CENTERPOINT, AT&T		

- Primary Benchmark is National Geodetic Survey (NGS) Monument No. AW5472. Elevation = 72.53' (NAVD 1988, 1986 Adjustment).
- Temporary Benchmark is a set mag nail located at the West corner of the subject property along Fairchilds Road. Elevation = 75.88' (NAVD 1988, 1986 Adjustment)

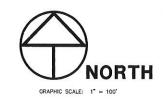
- 13. All pipelines or pipeline easements are shown hereon.
- This property is located in Lighting Zone No. 2, according to the "Order for Regulation of Outdoor Lighting."
- Subject to Section 7 (Greenspace Regulations) of the Fort Bend County Regulations of Subdivisions.
- 17. The property owner or their successors or assigns shall be responsible for the maintenance of all detention facilities and drainage easements, to include but not limited to stormwater pump facilities.

- F.C. FILM CODE
- H.C.C.F. HARRIS COUNTY CLERKS FILE
- H.C.D.R. HARRIS COUNTY DEED RECORDS H.C.M.R. - HARRIS COUNTY MAP RECORDS
  - IP IRON PIPE

BLOCK 1

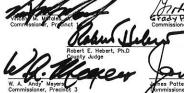
UNRESTRICTED RESERVE 'A' 8.2742 AC / 360,425 SQ. FT.

- IR IRON ROD
- PG. PAGE
- R.O.W. RIGHT-OF-WAY SQ. FT. - SQUARE FEET
- A.E. AERIAL EASEMEN B.L. - BUILDING LINE
- S.S.E. SANITARY SEWER EASEMENT
- ST.S.E. STORM SEWER EASEMENT U.E. - UTILITY EASEMENT



PROJECT SITE KEYMAP 685G

CITY OF FAIRCHILDS, FORT BEND COUNTY, TEXAS VICINITY MAP



ordation in my office on April 11 o'clock Pm., and duly recorded on Aprill 2017, in Plat No. 2017 0078 of the Map Records of Fort Bend County, for said county.

Witness my hand and seal of office, at Richmond, Texas,

Clerk of the County Court of Fort Bend County, Texas



FILED AND RECORDED
OFFICIAL PUBLIC RECORDS Jama Pictard



Laura Richard, County Clerk Fort Bend County, Texas April 11, 2017 03:11:16 Ph FEE: \$200.00 RMM 20170078

## **FAIRCHILD BUILDING**

A SUBDIVISION OF 8.4901 AC. / 369,828 SQ. FT. OF LAND SITUATED IN THE BARNABAS WICKSON LEAGUE, ABSTRACT NO. 95 FORT BEND COUNTY, TEXAS

> 1 BLOCK 1 RESERVE 0 LOTS MARCH 2017

Owner SE Construction Inc. 19311 Wildoats Drive Katy, TX 77449 832.523.5334

Surveyor



WINDROSE

LAND SURVEYING | PLATTING 3200 WILCREST, SUITE 325 | HOUSTON, TX 77042 | 713.458.2281 FIRM REGISTRATION NO. 10108800 | WINDROSESERVICES.COM



### **CONSTRUCTION - GENERAL NOTES**

- 1. FORT BEND COUNTY MUST BE INVITED TO THE PRE-CONSTRUCTION MEETING.
- 2. CONTRACTOR SHALL NOTIFY FORT BEND COUNTY ENGINEERING DEPARTMENT 48 HOURS PRIOR TO COMMENCING CONSTRUCTION AND 48 HOUR NOTICE TO ANY CONSTRUCTION ACTIVITY WITHIN THE LIMITS OF THE PAVING AT CONSTRUCTION@FORTBENDCOUNTYTX.GOV.
- 3. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS REQUIRED FROM FORT BEND COUNTY PRIOR TO COMMENCING CONSTRUCTION OF ANY IMPROVEMENTS WITHIN COUNTY ROAD RIGHT OF WAYS.
- 4. ALL PAVING IMPROVEMENTS SHALL BE CONSTRUCTED IN ACCORDANCE WITH FORT BEND COUNTY "RULES, REGULATIONS, AND REQUIREMENTS" RELATING TO THE APPROVAL AND ACCEPTANCE OF IMPROVEMENTS IN SUBDIVISIONS AS CURRENTLY AMENDED.
- 5. ALL ROAD WIDTHS, CURB RADII AND CURB ALIGNMENT SHOWN INDICATES BACK OF CURB.
- 6. A CONTINUOUS LONGITUDINAL REINFORCING BAR SHALL BE USED IN THE CURBS.
- 7. ALL CONCRETE PAVEMENT SHALL BE  $5\frac{1}{2}$  SACK CEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS. TRANSVERSE EXPANSION JOINS SHALL BE INSTALLED AT EACH CURB RETURN AND AT A MAXIMUM SPACING OF 60 FEET.
- 8. ALL WEATHER ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
- 9. 4" X 12" REINFORCED CONCRETE CURB SHALL BE PLACED IN <u>FRONT</u> OF SINGLE FAMILY LOTS ONLY. **ALL OTHER AREAS SHALL BE 6" REINFORCED CONCRETE CURB**.
- 10. AT ALL INTERSECTION LOCATIONS, **TYPE 7 RAMPS** SHALL BE PLACED IN ACCORDANCE WITH **TXDOT PED-12A** STANDARD DETAIL SHEET. A.D.A. HANDICAP RAMPS SHALL BE INSTALLED WITH STREET PAVING AT ALL INTERSECTIONS AND COMPLY WITH CURRENT A.D.A. REGULATIONS.
- 11. CURB HEADERS ARE REQUIRED AT CURB CONNECTIONS TO HANDICAP RAMPS, WITH NO CONSTRUCTION JOINT WITHIN 5' OF RAMPS.
- 12. ALL INTERSECTIONS UTILIZING TRAFFIC CONTROL MEASURES SHALL HAVE A.D.A. WHEEL CHAIR RAMPS INSTALLED.
- 13. GUIDELINES ARE SET FORTH IN THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES", AS CURRENTLY AMENDED, SHALL BE OBSERVED. CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAGMEN, SIGNING, STRIPING, AND WARNING DEVICES, ETC., DURING CONSTRUCTION BOTH DAY AND NIGHT.
- 14. ALL R1-1 STOP SIGNS SHALL BE 30" X 30" WITH DIAMOND GRADE SHEETING PER TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- 15. STREET NAME SIGNAGE SHALL BE ON A 9" HIGH SIGN FLAT BLADE WITH REFLECTIVE GREEN BACKGROUND. STREET NAMES SHALL BE UPPER AND LOWERCASE LETTERING WITH UPPERCASE LETTERS OF 6" MINIMUM AND LOWERCASE LETTERS OF 4.5" MINIMUM. THE LETTERS SHALL BE REFLECTIVE WHITE. STREET NAME SIGNS SHALL BE MOUNTED ON STOP SIGN POST.
- 16. A BLUE DOUBLE REFLECTIVE BUTTON SHALL BE PLACED AT ALL FIRE HYDRANT LOCATIONS. THE BUTTON SHALL BE PLACED 12 INCHES OFF TO THE CENTERLINE OF THE STREET ON THE SAME SIDE AS THE HYDRANT.

#### STORM SEWER CONSTRUCTION NOTES

- 1. STORM SEWERS SHALL BE REINFORCED CONCRETE PIPE(C-76, CLASS III), AND SHALL BE INSTALLED, BEDDED, AND BACKFILLED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS. 02317-02, 02317-03, 02317-05, 02317-06, AND 02317-07(OCT.2002) AS APPLICABLE UNLESS OTHERWISE SHOWN ON THE DRAWINGS.
- ALL STORM SEWER CONSTRUCTED IN SIDELOT EASEMENT SHALL BE R.C.P.(C-76, CLASS III AND SHALL BE BEDDED IN ACCORDANCE WITH THE CITY OF HOUSTON DRAWING NOS.02317-02, 02317-03, 02317-05, 02317-06, AND 02317-07AS APPLICABLE.
- 3. ALL SEWER UNDER PROPOSED OR FUTURE PAVEMENT AND TO A POINT ONE (1) FOOT BACK OF ALL PROPOSED OR FUTURE CURBS SHALL BE BACKFILLED WITH 1-1/2 SACK CEMENT/C.Y.STABILIZED SAND TO WITH IN ONE (1) FOOT OF SUBGRADE.THE REMAINING DEPTH OF TRENCH SHALL BE BACKFILLED WITH SUITABLE EARTH MATERIAL.
- 4. ALL TRENCH BACKFILLS SHALL BE IN 8" LIFTS, WITH TESTS TAKEN AT 100 FOOT INTERVALS ON EACH LIFT, AND MECHANICALLY COMPACTED TO A DENSITY OF NOT LESS THAN 95% OF THE MAXIMUM DRY DENSITY AS DETERMINED BY THE STANDARD PROCTOR COMPACTION TEST (ASTM D-698/AASHTO T99).
- 5. CIRCULAR AND ELLIPTICAL REINFORCED CONCRETE PIPE SHALL BE INSTALLED USING RUBBER GASKET JOINTS CONFORMING TO ASTM C443 AND ASTM C877 RESPECTIVELY.
- 6. ALL STORM SEWER PIPES AND INLET LEADS SHALL BE 24-INCH AND LARGER R.C.P (C-76, CLASS III).
- 7. ALL PROPOSED PIPE STUB-OUTS FROM MANHOLES AND INLETS ARE TO BE PLUGGED WITH 8" BRICK WALLS UNLESS OTHERWISE NOTED..
- 8. CONTRACTOR SHALL PROVIDE 12"MINIMUM CLEARANCE AT STORM SEWER AND WATER LINE CROSSINGS.
- 9. ADJUST MANHOLE COVERS TO GRADE CONFORMING TO REQUIREMENTS OF SECTION 02086-ADJUSTING MANHOLES, INLETS AND VALVE BOXES TO GRADE.
- 10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING AND RESTORING ANY BACK SLOPE DRAINAGE SYSTEM DISTURBED AS A RESULT OF HIS WORK
- 11. ALL DITCHES SHALL BE REGRADED TO PROPOSED ELEVATIONS TO INSURE PROPER DRAINAGE. ALL OUTFALLS SHALL BE PROPERLY BACKFILLED AND COMPACTED. ALL DISTURBED AREA SHALL BE REGRADED, SEEDED, AND FERTILIZED.
- 12. ALL DRIVEWAYS WILL BE LOCATED TO AVOID EXISTING CURB INLET STRUCTURES.



SE CONTRACTORS 7575 FAIRCHILD RD RICHMOND, TEXAS 77469 FORT BEND COUNTY

DATE:	3-9-2017
DRAWN:	NRH
CHECKED:	JGI
SCALE:	
- 12	

GENERAL NOTES

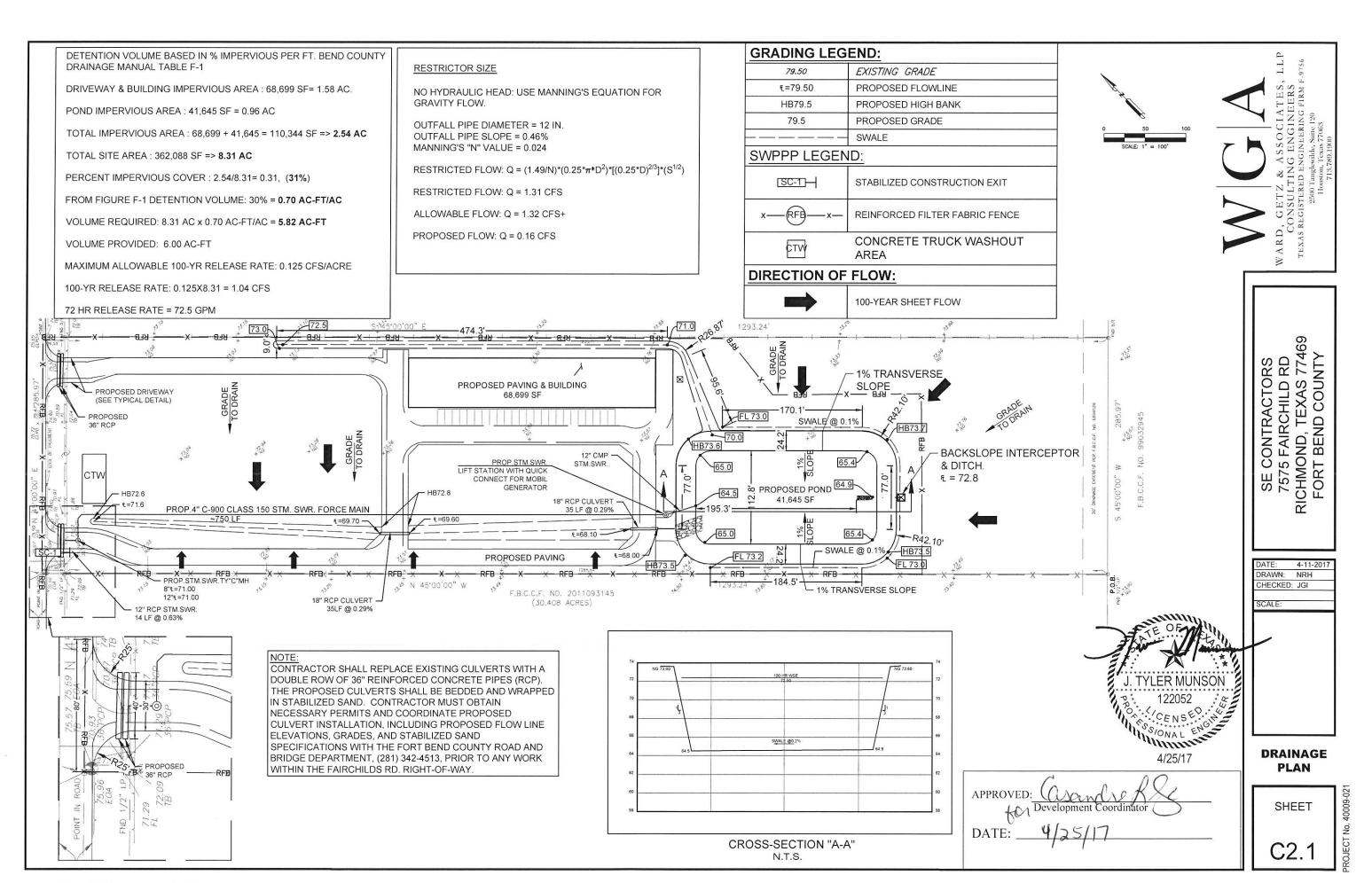
SHEET

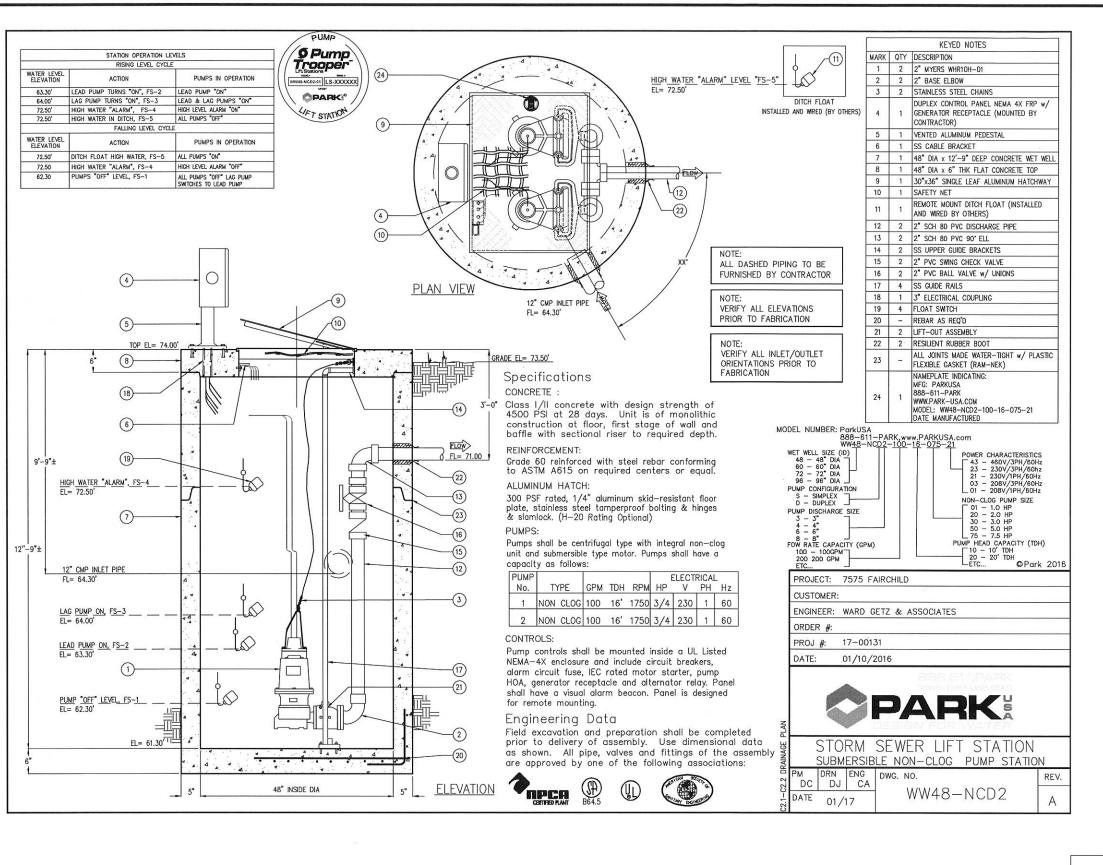
C1.1

APPROVED: Casandr 12

ten Development Coordinator

DATE: 4/25/17





VARD, GETZ & ASSOCIATES, CONSULTING ENGINEERS TEXAS REGISTERED ENGINEERING FIRM F-5

SE CONTRACTORS 7575 FAIRCHILD RD RICHMOND, TEXAS 77469 FORT BEND COUNTY

MONAL ENGINE

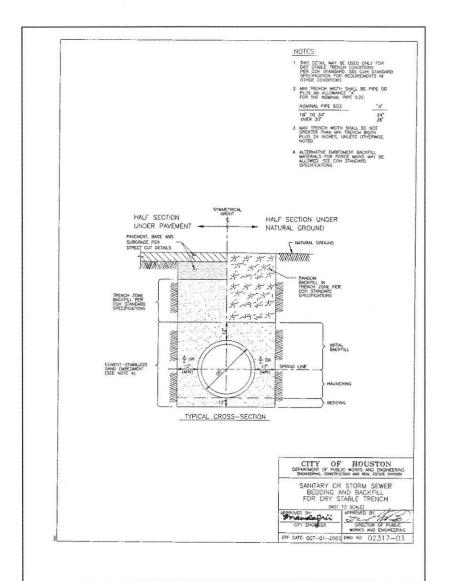
3/20/17

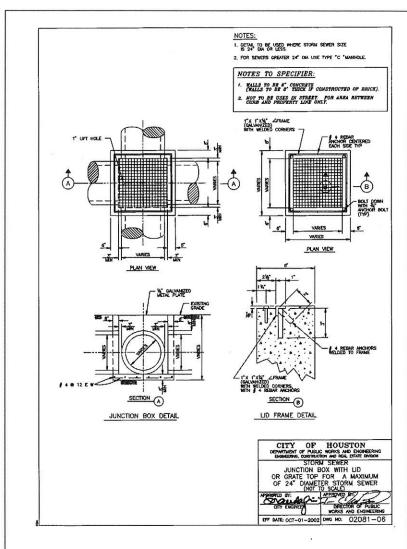
DATE: 3-20-2017 DRAWN: NRH CHECKED: JGI SCALE:

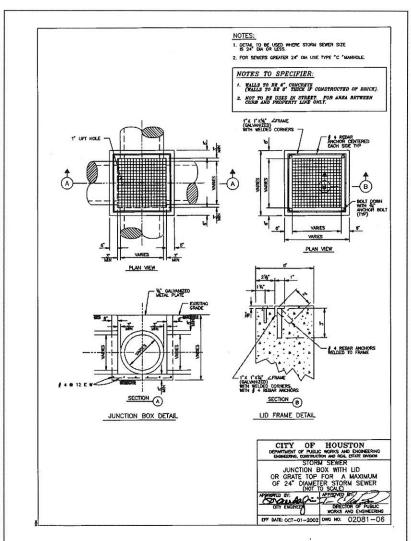
> PUMP DETAIL

SHEET

22.2







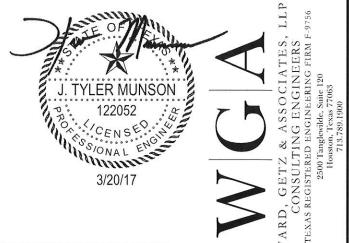


TABLE
SEWER SIZE VS MANHOLE SIZE
SOWER SIZE MANHOLE BASE
CHAMETER
5.-3" SECTION (A)

MISC.

C3.1

Drawina: Z:\40009 (RSJ)\021 7575 Fairchild\CAD\C3.1-C3.3 MISC&SWPPP DTLS.dwa Last Plotted: Mon Mar 20, 2017 - 10:57am By. nholder

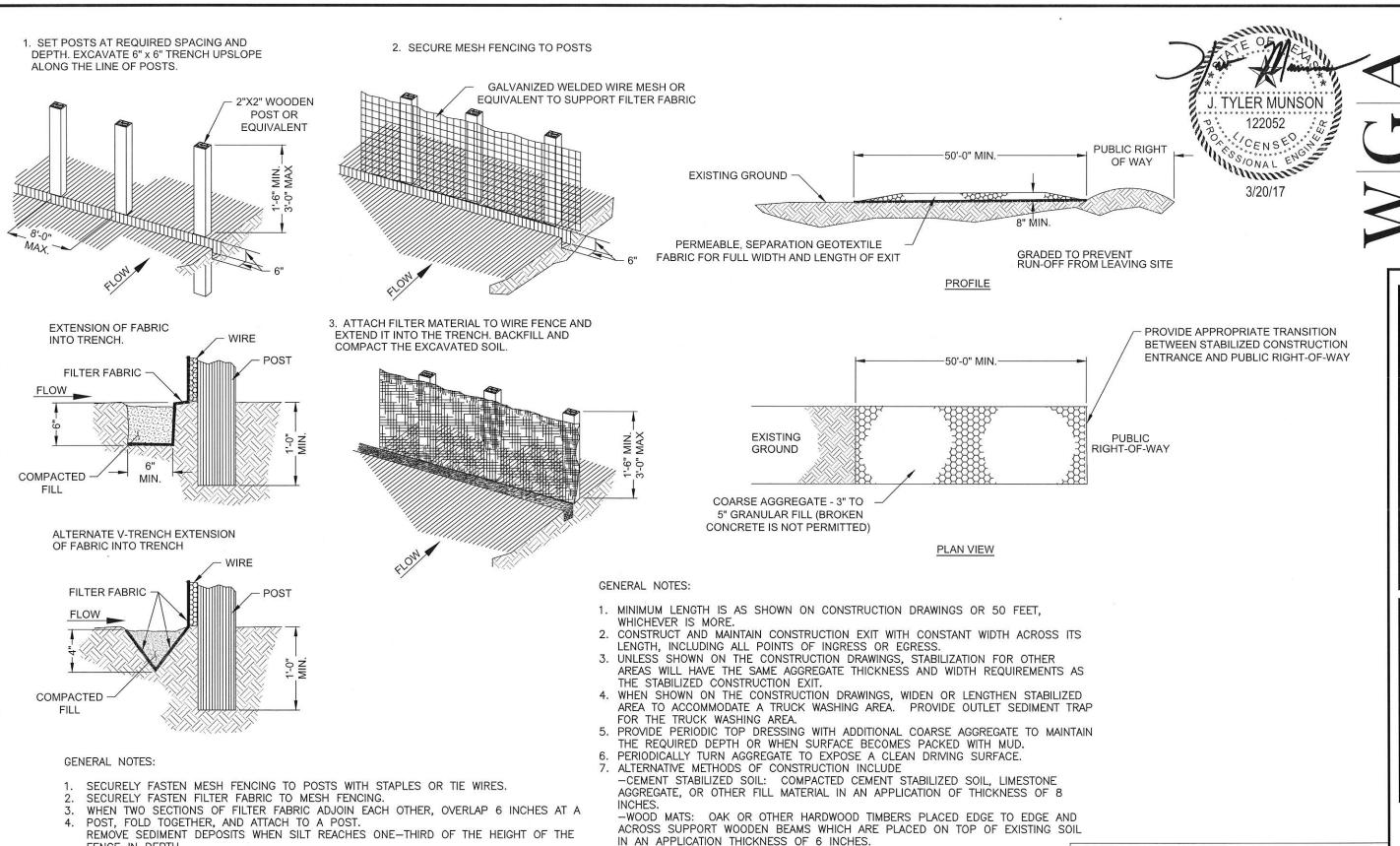
**DETAILS** 

SE CONTRACTORS 7575 FAIRCHILD RD RICHMOND, TEXAS 77469 FORT BEND COUNTY

DRAWN: NRH CHECKED: JGI

SCALE:

SHEET



STABILIZED CONSTRUCTION ACCESS

-STEEL MATS: PERFORATED MATS PLACED ACROSS PERPENDICULAR SUPPORT

APPROVED: One Development Coordinator DATE: 4/25/17

SE CONTRACTORS 7575 FAIRCHILD RD RICHMOND, TEXAS 77469 FORT BEND COUNTY

DATE: 3-9-2017
DRAWN: NRH
CHECKED: JGI
SCALE:

STORM WATER
POLLUTION
PREVENTION PLAN
DETAILS

SHEET

C3.2

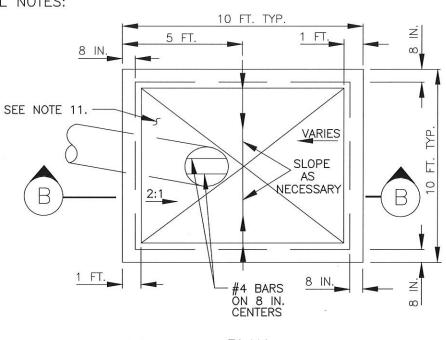
REINFORCED FILTER FABRIC BARRIER

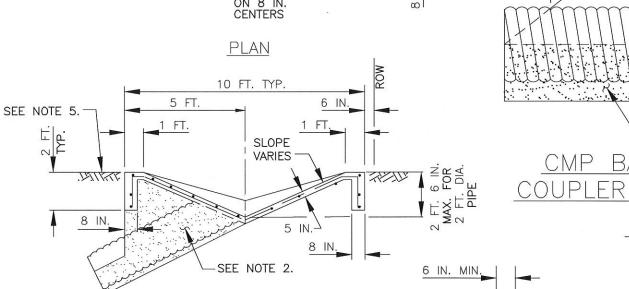
FENCE IN DEPTH

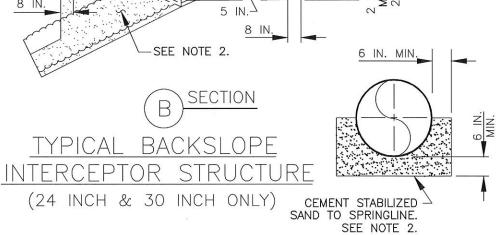
#### INTERCEPTOR STRUCTURE DETAIL NOTES:

- 1. INTERCEPTOR OUTFALL PIPES WITHIN THE HCFCD RIGHT—OF—WAY SHALL BE CMP OR HDPE PIPE IN ACCORDANCE WITH SPECIFICATION SECTION 02642— CORRUGATED METAL PIPE, HIGH DENSITY POLYETHYLENE (HOPE) PIPE IN ACCORDANCE WITH SPECIFICATION SECTION 2505—HIGH DENSITY POLYETHYLENE, OR APPROVED EQUAL. USE TABLE BELOW FOR CORRUGATED GALVANIZED STEEL PIPE.
- 2. PROVIDE AND PLACE CEMENT
  STABILIZED SAND IN ACCORDANCE
  WITH SPECIFICATION SECTION
  02321-CEMENT STABILIZED SAND
  AND SECTION 02316 STRUCTURAL
  EXCAVATING.
- 3. EXCAVATION, FILL AND BACKFILL FOR STORM SEWER OUTFALLS SHALL BE IN ACCORDANCE WITH SPECIFICATION SECTION 02316—STRUCTURAL EXCAVATING AND BACKFILLING.
- CONCRETE SHALL BE STRUCTURAL CONCRETE IN ACCORDANCE WITH SPECIFICATION SECTION 03310—CONCRETE.
- 5. INTERCEPTOR STRUCTURES: a. ADJUST LENGTH AND WIDTH IN FIELD AS NECESSARY.
  - b. 2-FEET DEEP X 8-INCH WIDE TOE ALL AROUND THE STRUCTURE.
  - c. STEEL REINFORCING—#4 BARS (GRADE 40) AT 12 INCHES ON CENTER
  - d. EACH WAY.
  - e. ANY INTERCEPTOR OUTFALL PIPE LARGER THAN MAXIMUM SIZE
  - f. INDICATED REQUIRES A SEPARATE DETAIL.
  - g. MATCH TOP OF CONCRETE WITH NATURAL GROUND.
- 6. IN DETENTION BASINS, SET FLOWLINE OF OUTFALL AT TOE OF THE SLOPE. IN CHANNEL, USE ELEVATION INDICATED IN THE TABLE OR 1 FOOT ABOVE NORMAL WATER LEVEL WHICH EVER IS HIGHER.
- SEE CONCRETE CHANNEL LINING DETAIL SHEET FOR CMP OUTFALL DETAILS THROUGH CONCRETE CHANNEL LINING.
- 8. CONCRETE PAD AROUND TYPE "B" INLET: PAID FOR AS CONCRETE INTERCEPTOR STRUCTURE PER UNIT PRICE SCHEDULE. TYPE "B" INLET BOX, COH DWG. NO. 02632-02 WITH GRATE TOP, VULCAN FOUNDRY COMPANY, V-4880-1 OR APPROVED EQUAL, APPROX. 489 SQ.IN. OPENING.
- OPENING.

  9. BACKSLOPE SWALE AND INTERCEPTOR STRUCTURE ELEVATIONS AND LOCATIONS SHOWN ON THE PLANS ARE APPROXIMATE. FINAL ELEVATIONS AND LOCATIONS SHALL BE FIELD VERIFIED BY THE ENGINEER PRIOR TO INSTALLATION.
- 10. STRUCTURAL CONCRETE WITH #4
  BARS (GRADE 40) 12 INCH O.C.
  EACH WAY FOR COLLARS ONLY.
- EPOXY CLEAN WATER CLEAR CHOICE LOGO BUTTON ON INTERCEPTORS. LOCATION TO BE DETERMINED BY THE ENGINEER.







(F) SECTION

<u>BEDDING</u> CMP DETAIL

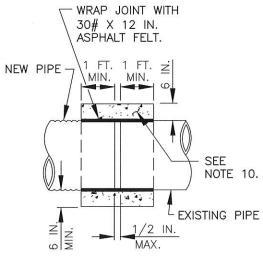


J. TYLER MUNSON

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3/20/17



CONCRETE COLLAR DETAIL

WRAP JOINT WITH
30# X 12 IN.
ASPHALT FELT.
SEE NOTE 10.

2 FT. MIN.

COUPLER

**BAND** 

SEE NOTE 2.

BAND

5 FT. MIN.

INTO SLOPE

APPROVED: Care of Development Coordinator

DATE: 4/25/17

WARD, GETZ & ASSOCIATES, L CONSULTING ENGINEERS TEXAS REGISTERED ENGINEERING FIRM F-97

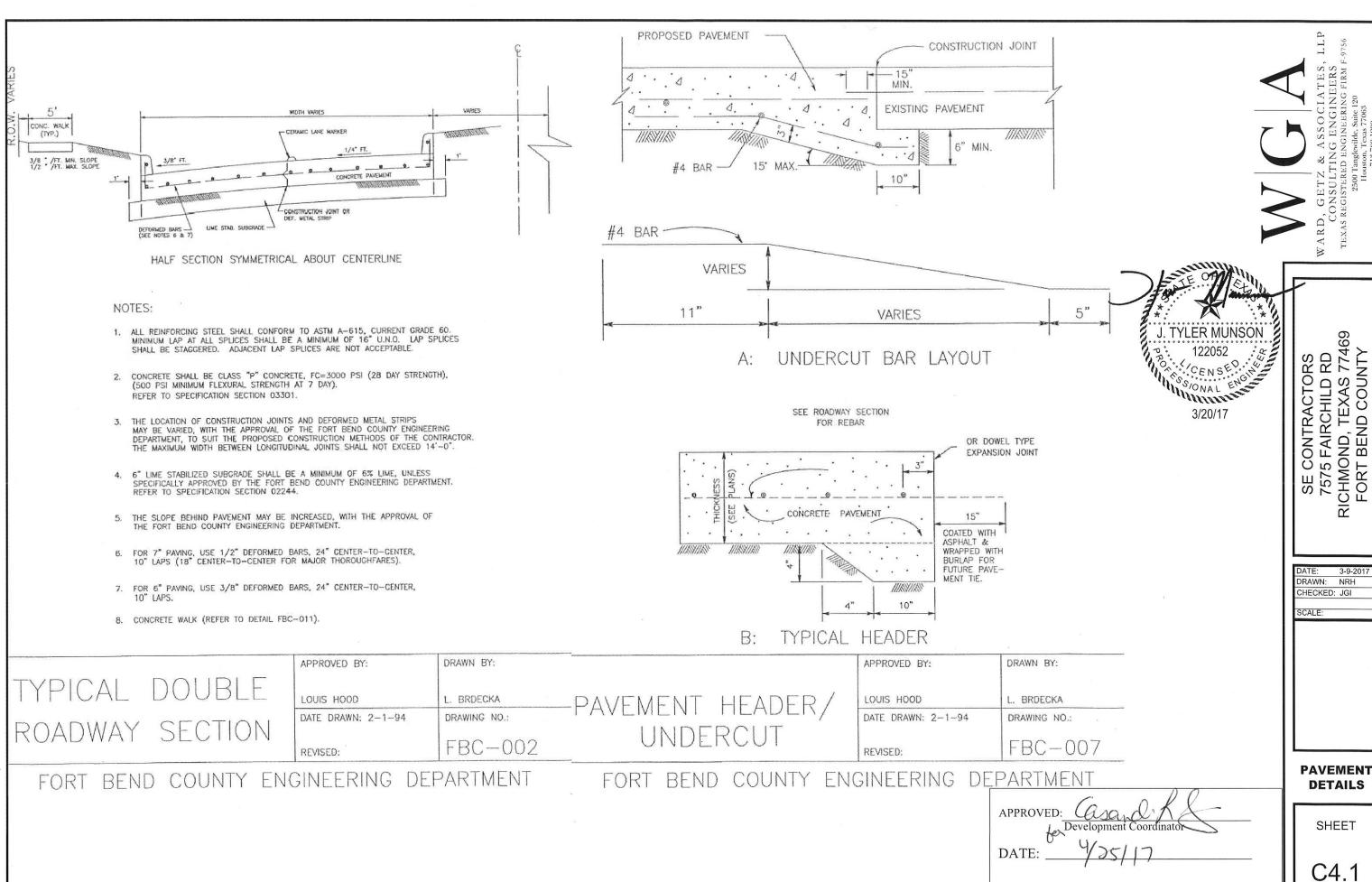
> SE CONTRACTORS 7575 FAIRCHILD RD RICHMOND, TEXAS 77469 FORT BEND COUNTY

DATE: 3-9-2017
DRAWN: NRH
CHECKED: JGI
SCALE:

BACKSLOPE DETAILS

SHEET

C3.3



**PAVEMENT DETAILS** SHEET

C4.1

2

WHEN A COMMERCIAL SIDEWALK, DRIVEWAY, CURB OR GUTTER IS CONSTRUCTED, RECONSTRUCTED, REPAIRED OR REGRADED ON COUNTY RIGHT-OF-WAY. FOR USE WITH CONCRETE OR ASPHALT CURB TYPE STREETS, USE SECTIONS APPLICABLE. A. USE FOR ALL PROPOSED EXISTING CURB REMOVAL FOR DRIVEWAYS (PLAN VIEW NOT TO SCALE) 20' - 40' DRIVEWAY WIDTH 3/4" BOARD EXPANSION R.O.W. LINE 5' TYPICAL SIDEWALK 4' MIN. SIDEWALK 3' TYPICAL SIDEWALK 4' MIN. SIDEWALK 5' MIN. SIDEWALK ACROSS DRIVEWAY DRIVEWAY RADIUS MAX SLOPE I"/FT BACK OF EXISTING MIN SLOPE X\*/FT IN DRIVEWAY AREA CURB (TYP.) THOROUGHFARE 10' R ON COLLECTOR OR LOCAL STREET MINIMUM 18" 3/4° BOARD EXPANSION OUTTER LINE-SAW CUT AND EXPOSE 15" OF REINFORCING STEEL. (MIN. SAW CUT DEPTH=2") EXTEND EXISTING EXPANSION JOINT FROM STREET INTO PROPOSED DRIVEWAY, ONLY WHEN THERE IS AN EXISTING EXPANSION JOINT IN THE NOTE: SIDEWALKS MUST COMPLY WITH A.D.A. STANDARDS. 3/4" BOARD EXPANSION STREET AT THE PROPOSED DRIVEWAY INTERSECTION.\* \* EXTENDING OF EXPANSION JOINT NOT REQUIRED FOR 4" ROLL OVER CURB SUT 1" BOARD EXPANSION JOINT MUST BE PROVIDED BACK OF CLRB B. USE FOR ALL PROPOSED DRIVES ON CURBED TYPE STREETS -3/4" BOARD EXPANSION 5'. MAX SLOPE X 7/8 (2% VARIES SCORE JOINT 6'STD. 7" (MIN) THICK REINF, CONC. MATCH THICKNESS ON MAJOR THOROUGHFARES 4" CLEAN BANK SAND (SEE GENERAL NOTE 2) UNDERCUT SEE DEATAIL FBC-007 **NEW PAVEMENT** EXISTING PAVEMENT AND REINFORCMENT COMPACT SUBGRADE TO 95% STD. PROCTOR DENSITY (SEE GENERAL NOTE I) GENERAL NOTES: 1. COMPACT SUBGRADE FOR PROPOSED DRIVEWAY CONNECTION FROM PROPOSED SAW CUT AT EXISTING PAVEMENT TO R.G.W. LINE, COMPACT TO 95% OF STANDARD PROCTOR DENSITY(+/- 2% OPT, MOISTURE). THE COUNTY ENGINEER RESERVES THE RIGHT TO REQUIRE LABORATORY TESTS TO BE CONDUCTED. 2. PROPOSED DRIVEWAY REINFORCING STEEL IS TO BE #4 DEFORMED REINFORCING BARS (ASTM A618, GRADE 60, UNLESS NOTED) SPACED AT 24" C.C., EACH WAY, WITH 12" MINIMUM LAP FROM PROPOSED SAW CUT TO R.O.W. LINE. 3. PROPOSED DRIVEWAY SHALL BE CONSTRUCTED WITH PORTLAND CEMENT (5 SACKS (3000 PSI) OF CEMENT PER CUBIC YARD OF CONCRETE), CLASS "A" STRUCTURAL (REFER TO SPECIFICTION 03301), 7" THICK; FROM PROPOSEDSAW CUT TO R.O.W. LINE. 4. PROPOSED SIDEWALK SHALL BE CONSTRUCTED WITH PORTLAND CEMENT (5 SACKS (3000 PSI) OF CEMENT PER CUBIC YARD OF CONCRETE), CLASS "A" STRUCTURAL (REFER TO SPECIFICTION 03301), 4" THICK. 5. FOR TYPICAL SIDEWALK DEATAIL SEE FEC-011. REVISED BY: J. NETARDUS DRAWN BY: L. BRDECKA SIDEWALKS & DRIVEWAYS ON DATE REVISED: 4-7-09 DATE DRAWN: 2-1-94 **CURB TYPE STREETS** DRAWING NO. APPROVED BY: L. HOOD **COMMERCIAL AREA** FBC-025A DATE: 2-1-94

FORT BEND COUNTY ENGINEERING DEPARTMENT

V GETZ & ASSOCIATES, L

J. TYLER MUNSON
122052
CENSE
3/20/17

APPROVED:

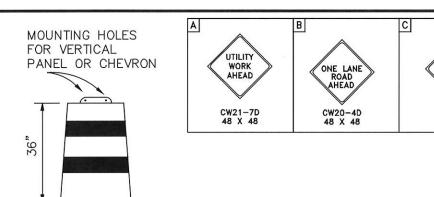
SE CONTRACTORS 7575 FAIRCHILD RD RICHMOND, TEXAS 77469 FORT BEND COUNTY

DATE: 3-9-2017
DRAWN: NRH
CHECKED: JGI
SCALE:

PAVEMENTS DETAILS

SHEET

C4.2



PLASTIC DRUM



- PLASTIC DRUM (see spacing for channelizing devices)
- OFF-DUTY UNIFORMED POLICE OFFICER
- TYPE III BARRICADE
- TUBULAR MARKER

		M	inimum Desirat Taper Lengths		Suggested	Maximum Spacing of Device
Posted Speed	Formula	10° Offset	11° Offset	12' Offset	On a Taper	On a Tangent
30		150'	165'	180'	30	60'-75'
35		205'	225'	245'	35	70'-90'
40		265'	295'	320'	40	80'-100'
45		450'	495'	540'	45	90'-110'
50		500'	550'	600'	50	100'-125'
55		550'	605'	660'	55	110'-140'
60		600'	660'	720'	60	120'-150'
65		650'	715'	780'	65	130'-165'

Street	Posted Speed		
FAIRCHILD ROAD	45 MPH		



— DRUMS @ 25' C-C	320'	320'	320′
MIN. 10' LANE	0	В	A
		· · · · · · · · · · · · · · · · · · ·	ILD ROAD  PAD WIDTH)
B C 100' 100' 100' 100' 100' 100' 100' 10	320'	(D)	

END

UTILITY WORK

G20-2u 48 X 24

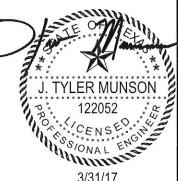
## ONE LANE - TWO WAY/FLAGGING OPERATION

### (DAY TIME WORKING HOURS ONLY)

#### TRAFFIC NOTES

- 1. Contractor shall provide and install traffic control devices in conformance with part VI of the Texas Manual on Uniform Traffic Control Devices (Texas MUTCD, most recent edition with revisions) during construction.
- 2. No lanes shall be closed from 7:00 a.m. to 9:00 a.m. and 4:00 p.m. to 6:30 p.m. Monday thru Friday.
- 3. Contractor shall cover open excavations with steel plates anchored properly during non-working hours, and open lanes for normal traffic flow.
- 4. Off-duty Uniformed Police Officers/flagger(s) are required to direct traffic when lanes are blocked.
- 5. If the contractor chooses to use a different method of "Traffic Control Plans" during the construction than what is outlined in the contract drawings, (s)he shall be responsible to prepare and submit an alternate set of plans\* to HCPID Traffic Section for approval ten working days prior to implementation.
- \*These plans shall be drawn to scale on reproducible mylars and sealed by a Licensed Engineer in the State of Texas. Plans will become a part of the contract drawings.
- 6. Approved copies of Traffic Control Plans shall be available for inspection at job site at all times.

CONTRACTOR SHALL REPLACE EXISTING CULVERTS WITH A DOUBLE ROW OF 36" REINFORCED CONCRETE PIPES (RCP). THE PROPOSED CULVERTS SHALL BE BEDDED AND WRAPPED IN STABILIZED SAND. CONTRACTOR MUST OBTAIN NECESSARY PERMITS AND COORDINATE PROPOSED CULVERT INSTALLATION, INCLUDING PROPOSED FLOW LINE ELEVATIONS, GRADES, AND STABILIZED SAND SPECIFICATIONS WITH THE FORT BEND COUNTY ROAD AND BRIDGE DEPARTMENT, (281) 342-4513, PRIOR TO ANY WORK WITHIN THE FAIRCHILDS RD. RIGHT-OF-WAY.



**TRAFFIC** CONTROL **PLAN** 

SE CONTRACTORS 7575 FAIRCHILD RD RICHMOND, TEXAS 77469 FORT BEND COUNTY

3-24-2017

DRAWN: NRH CHECKED: JGI

SHEET

C5.

