

**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@fortbendcountytexas.gov

- ☐ Right of Way Permit  
☒ Commercial Driveway Permit

Permit No: 2018-20460

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:**

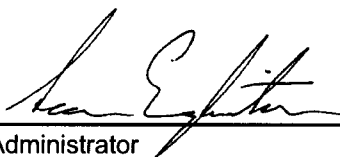
- ☐ County Attorney, approval when applicable.
- ☐ Perpetual bond currently posted.      Bond No: \_\_\_\_\_ Amount: \_\_\_\_\_
- ☒ Performance bond submitted.      Bond No: [REDACTED] Amount: \$5,000.00
- ☐ Cashier's Check      Check No: \_\_\_\_\_ Amount: \_\_\_\_\_

**(3) DRAINAGE DISTRICT APPROVAL (WHEN APPLICABLE):**

\_\_\_\_\_  
Drainage District Approval

\_\_\_\_\_  
Date

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

  
\_\_\_\_\_  
Permit Administrator

5/14/2018

\_\_\_\_\_  
Date



34



**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 §

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND §

THAT WE, Stone Castle Constructors, LLC whose (address, phone) is 3615 Almeda Genoa Road, Houston Texas 77047, (713)440-6224, hereinafter called the Principal, and RLI Insurance Company, a Corporation existing under and by virtue of the laws of the state of Delaware and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at (name/address/phone) 9025 N. Lindberg Drive, Peoria, IL 61615, (309)692-1000, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is William D. Baldwin and whose address is 5930 Preston View Blvd, Suite 200, Dallas, Texas 75240, hereinafter called the Surety, and held and firmly bound unto, Robert E. Hebert, County Judge of Fort Bend County, Texas, or his successors in office, in the full sum of Five Thousand Dollars (\$ 5,000.00 ) current, lawful money of the United States of America, to be paid to said Robert E. Hebert, 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 2nd day of May, 2018.

Stone Castle Constructors, LLC

PRINCIPAL

[Signature]  
BY

RLI Insurance Company

SURETY

[Signature]  
BY Blaine Allen, Attorney-in-Fact



CCM 5-22-2018 # 13K  
Fort Bend County Clerk  
Return Admin Serv Coord  
Permit # 2018-20460 RAC



# POWER OF ATTORNEY

## **RLI Insurance Company Contractors Bonding and Insurance Company**

9025 N. Lindbergh Dr. Peoria, IL 61615  
Phone: 800-645-2402

### ***Know All Men by These Presents:***

That this Power of Attorney is not valid or in effect unless attached to the bond which it authorizes executed, but may be detached by the approving officer if desired.

That **RLI Insurance Company** and/or **Contractors Bonding and Insurance Company**, each an Illinois corporation, (separately and together, the "Company") do hereby make, constitute and appoint:

Blaine Allen, Russ Frenzel, William D. Baldwin, Brent Baldwin, jointly or severally

in the City of Dallas, State of Texas its true and lawful Agent(s) and Attorney(s) in Fact, with full power and authority hereby conferred, to sign, execute, acknowledge and deliver for and on its behalf as Surety, in general, any and all bonds and undertakings in an amount not to exceed Twenty Five Million Dollars (\$25,000,000.00) for any single obligation.

The acknowledgment and execution of such bond by the said Attorney in Fact shall be as binding upon the Company as if such bond had been executed and acknowledged by the regularly elected officers of the Company.

**RLI Insurance Company** and/or **Contractors Bonding and Insurance Company**, as applicable, have each further certified that the following is a true and exact copy of a Resolution adopted by the Board of Directors of each such corporation, and is now in force, to-wit:

"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."

IN WITNESS WHEREOF, the **RLI Insurance Company** and/or **Contractors Bonding and Insurance Company**, as applicable, have caused these presents to be executed by its respective Vice President with its corporate seal affixed this 25th day of January, 2018.



**RLI Insurance Company  
Contractors Bonding and Insurance Company**

By: B. A. W. Davis

Barton W. Davis

Vice President

State of Illinois

County of Peoria

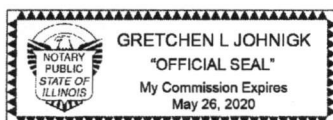
} SS

On this 25th day of January, 2018, before me, a Notary Public, personally appeared Barton W. Davis, who being by me duly sworn, acknowledged that he signed the above Power of Attorney as the aforesaid officer of the **RLI Insurance Company** and/or **Contractors Bonding and Insurance Company** and acknowledged said instrument to be the voluntary act and deed of said corporation.

By: Gretchen L. Johnnigk

Gretchen L. Johnnigk

Notary Public



### **CERTIFICATE**

I, the undersigned officer of **RLI Insurance Company** and/or **Contractors Bonding and Insurance Company**, do hereby certify that the attached Power of Attorney is in full force and effect and is irrevocable; and furthermore, that the Resolution of the Company as set forth in the Power of Attorney, is now in force. In testimony whereof, I have hereunto set my hand and the seal of the **RLI Insurance Company** and/or **Contractors Bonding and Insurance Company** this 2nd day of May, 2018.

**RLI Insurance Company  
Contractors Bonding and Insurance Company**

By: Jean M. Stephenson

Jean M. Stephenson

Corporate Secretary





RLI Insurance Company  
P.O. Box 3967 Peoria, IL 61612-3967  
Phone: 309-692-1000 Fax: 309-683-1610

## Texas Policyholder Notice

### TEXAS IMPORTANT NOTICE

To obtain information or make a complaint:

You may call **RLI Insurance Company's** toll free telephone number for information or to make a complaint at 800-645-2402.

You may also write to **RLI Insurance Company** at:

9025 N. Lindbergh Drive  
Peoria, IL 61615  
FAX # 309-683-1610

You may contact the Texas Department of Insurance to obtain information on companies, coverages, rights or complaints at 1-800-252-3439.

You may also write the Texas Department of Insurance:

P.O. Box 149104  
Austin, TX 78714-9104  
Fax Number: (512) 490-1007  
Web: [www.tdi.texas.gov](http://www.tdi.texas.gov)  
E-mail: [ConsumerProtection@tdi.texas.gov](mailto:ConsumerProtection@tdi.texas.gov)

#### PREMIUM OR CLAIM DISPUTES:

Should you have a dispute concerning your premium or about a claim, you should contact the agent first. If the dispute is not resolved, you may contact the Texas Department of Insurance.

#### ATTACH THIS NOTICE TO YOUR POLICY:

This notice is for information only and does not become a part or condition of the attached document.

### TEXAS AVISO IMPORTANTE

Para obtener informacion o para presentar una queja:

Usted puede llamar al numero de telefono gratuito de **RLI Insurance Company** para obtener informacion o para presentar una queja al 800-645-2402.

Usted tambien puede escribir a **RLI Insurance Company**:

9025 N. Lindbergh Drive  
Peoria, IL 61615  
FAX # 309-683-1610

Usted puede comunicarse con el Departamento de Seguros de Texas para obtener informacion sobre companias, coberturas, derechos o quejas al 1-800-252-3439.

Usted puede escribir al Departamento de Seguros de Texas a:

P.O. Box 149104  
Austin, TX 78714-9104  
Fax Number: (512) 490-1007  
Sitio web: [www.tdi.texas.gov](http://www.tdi.texas.gov)  
E-mail: [ConsumerProtection@tdi.texas.gov](mailto:ConsumerProtection@tdi.texas.gov)

#### DISPUTAS POR PRIMAS DE SEGUROS O RECLAMACIONES:

Si tiene una disputa relacionada con su prima de seguro o con reclamacion, usted debe comunicarse con el agente primero. Si la disputa no es resuelta, puede comunicarse con el Departamento de Seguros de Texas.

#### ADJUNTE ESTE AVISO A SU POLIZA:

Este aviso es solamente para propositos informativos y no se convierte en parte o en condicion del documento adjunto.



FILED AND RECORDED  
OFFICIAL PUBLIC RECORDS

*Laura Richard*

Laura Richard, County Clerk

Fort Bend County Texas

May 25, 2018 11:12:24 AM



FEE: \$0.00

RMM

**2018057066**



# CONSTRUCTION OF PLAYGROUND AT BARSKI PARK FOR FORT BEND COUNTY MUNICIPAL UTILITY DISTRICT No. 118 FORT BEND COUNTY, TEXAS

## INDEX OF DRAWINGS

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| 3. C1            | OVERALL LAYOUT & SWPPP                        |
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| 6. C4            | MISCELLANEOUS DETAILS                         |
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| 9. C7            | TRAFFIC CONTROL PLAN                          |

### NOTES:

These plans were prepared to meet or exceed the specifications and requirements of Fort Bend County, Texas as currently amended, whichever is more stringent.

Approval by Fort Bend County will be deemed void if construction has not begun within one year of approval date.

Construction shall not begin before the plat of this section is filed in the Fort Bend County Map Records.

Construction will be monitored by a Registered Professional Engineer of JONES & CARTER, INC.

Contractor shall notify the Fort Bend County Engineering Department at least 48 hours prior to commencement at (281) 633-7500.

I, Michael P. Gurka, a Professional Engineer licensed in the State of Texas do hereby certify that these plans were prepared under my supervision to meet or exceed the specifications and requirements of Fort Bend County, Texas.

*Michael P. Gurka* 03/12/2018  
Michael P. Gurka, P.E. Date

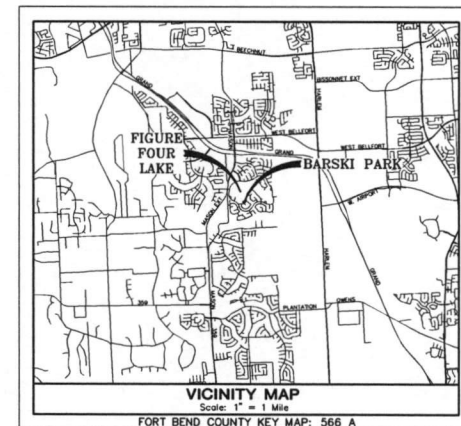


03/12/2018

*Michael P. Gurka*

MARCH 2018  
JC JOB No. 14421-0016-00

**JC JONES & CARTER**  
Texas Board of Professional Engineers Registration No. F-439  
6330 West Loop South, Suite 150 • Bellaire, TX 77401 • 713.777.5337



### FORT BEND COUNTY ENGINEER

ENGINEER: *Richard W. Stolleis, P.E.*  
for Richard W. Stolleis, P.E.

DATE: 4/6/18

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

APPROVED: *Armando J. Le*  
for Development Coordinator

DATE: 4-5-18

TEXAS811 NOTIFICATION SYSTEM  
CALL BEFORE YOU DIG!!  
www.texas811.org/  
Texas811 or 1-800-545-5005

FORT BEND COUNTY M.U.D. No. 118 - PLAYGROUND AT BARSKI PARK

**JC JONES & CARTER**  
BELLAIRE, TEXAS

SHEET No.  
G1  
1 OF 9



### GENERAL CONSTRUCTION NOTES

- WASTEWATER COLLECTION SYSTEMS, WATER, PAVING, TRAFFIC SIGNALS AND DRAINAGE SYSTEMS SHALL BE CONSTRUCTED IN ACCORDANCE WITH THE FOLLOWING CITY DOCUMENTS. THESE DOCUMENTS ARE "STANDARD CONSTRUCTION SPECIFICATIONS" (MOST RECENT ISSUE 2016) AND "STANDARD CONSTRUCTION DETAILS FOR WASTEWATER COLLECTION SYSTEMS" (MOST RECENT ISSUE 2016). THE CONTRACTOR SHALL VERIFY THAT ALL RECENT ISSUE 2017) WITH ALL SUBSEQUENT AMENDMENTS ADDED THERETO UNLESS OTHERWISE NOTED AND APPROVED ON THESE PLANS. THE DESIGN MUST AGREE WITH THE MINIMUM STANDARDS ESTABLISHED IN THE LATEST ISSUE OF THE "INFRASTRUCTURE DESIGN MANUAL" (MOST RECENT ISSUE 2017).
- THE CONTRACTOR SHALL BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGE TO THE EXISTING PUBLIC OR PRIVATE UTILITY LINES, INCLUDING BUT NOT LIMITED TO WATER LINES, WASTEWATER COLLECTION SYSTEMS AND STORM SEWERS, DURING CONSTRUCTION. ALL DAMAGES SHALL BE REPAIRED IN ACCORDANCE WITH CITY OF HOUSTON, DEPARTMENT OF PUBLIC WORKS AND ENGINEERING "STANDARD CONSTRUCTION SPECIFICATIONS" WITH LATEST ADDENDA AND AMENDMENTS THERETO, WITH NO COST TO THE PUBLIC OR OWNER.
- THE APPROXIMATE LOCATION OF EXISTING UTILITIES ARE GIVEN FOR REFERENCE ONLY. BEFORE COMMENCING THE WORK ON THIS CONTRACT, THE CONTRACTOR SHALL VERIFY BY FIELD INVESTIGATION THE ACTUAL LOCATIONS OF ALL UTILITY FACILITIES WITHIN AND ADJACENT TO THE LIMITS OF THE WORK THAT MAY BE AFFECTED BY THE WORK. HORIZONTAL AND VERTICAL EXISTING UTILITIES WHICH ARE SHOWN ON THE CONSTRUCTION DRAWINGS, OR WHICH THE CONTRACTOR HAS BEEN GIVEN NOTICE OR HAS KNOWLEDGE, SHALL BE THE SOLE RESPONSIBILITY OF THE CONTRACTOR. THE COST OF REMEDIAL WORK, THE REMOVAL OF PORTIONS OF THE WORK OR EXTENSIVE DESIGN CHANGES OCCASIONED BY THE FAILURE OF THE CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UTILITIES AS DESCRIBED ABOVE SHALL BE BORNE BY THE CONTRACTOR.
- CONTRACTOR SHALL OBTAIN ALL APPLICABLE CITY, STATE, COUNTY, AND FEDERAL PERMITS, AND PROVIDE TO ENGINEER.
- CONTRACTOR SHALL COMPLY WITH O.S.H.A. REGULATIONS AND TEXAS STATE LAW CONCERNING TRENCH SAFETY SYSTEMS.
- CONTRACTOR TO FOLLOW CONSTRUCTION DETAILS & DRAWINGS DEViate FROM CITY OF HOUSTON STANDARDS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROTECTING, MAINTAINING AND RESTORING ALL EXISTING FACILITIES OR ANY OFF-SITE AREAS AFFECTED BY THIS CONSTRUCTION PROJECT TO EXISTING OR BETTER CONDITION, UNLESS OTHERWISE NOTED, AT NO ADDITIONAL COST TO THE OWNER.
- THIS PROJECT IS WITHIN FORT BEND COUNTY, TEXAS.
- CONTRACTOR SHALL PERFORM WORK IN A MANNER TO LIMIT NOISE FROM CONSTRUCTION TO ACCEPTABLE LEVELS FOR PROPERTIES ADJACENT TO THE CONSTRUCTION AREA.
- CONTRACTOR SHALL KEEP EXISTING STREETS AND ROADS OPEN TO ALL TRAFFIC AND CLEANED DAILY OF MATERIAL DEPOSITED BY CONSTRUCTION VEHICLES.
- DURING CONSTRUCTION, THE CONTRACTOR SHALL MAINTAIN ADEQUATE DRAINAGE AND SAFE ACCESS TO DRAINAGE WAYS, SIDEWALKS OR PASSAGE WAYS ADJACENT TO THE CONSTRUCTION AREA.
- THE CONTRACTOR IS RESPONSIBLE FOR PROVIDING RED LINE RECORD DRAWINGS AT THE COMPLETION OF THIS PROJECT AS PER SPECIFICATIONS.
- THE COST OF REMEDIAL WORK, REMOVAL OF PORTIONS OF THE WORK OR EXTENSIVE DESIGN CHANGES OCCASIONED BY FAILURE OF THE CONTRACTOR TO VERIFY THE LOCATION OF EXISTING UTILITIES AS DESCRIBED IN NOTE 3 ABOVE SHALL BE BORNE BY THE CONTRACTOR.
- AUTORIZATION NOTICE ISSUED BY FORT BEND COUNTY IS REQUIRED PRIOR TO CONSTRUCTION OF UTILITIES WITHIN FORT BEND COUNTY RIGHT-OF-WAY. CONTACT MR. RICHARD STOLLES, P.E. (281 633-7500).
- THESE PLANS PREPARED BY JONES & CARTER, INC. DO NOT EXTEND TO OR INCLUDE DESIGN OR SYSTEMS PERTAINING TO THE SAFETY OF THE CONTRACTOR OR ITS EMPLOYEES, AGENTS, OR REPRESENTATIVES IN THE PERFORMANCE OF THE WORK. THE SEAL OF THE JONES & CARTER, INC. REGISTERED PROFESSIONAL ENGINEER(S) HEREON DOES NOT EXTEND TO ANY SUCH SAFETY SYSTEMS THAT MAY NOW OR HEREINAFTER BE INCORPORATED IN THESE PLANS. THE CONTRACTOR SHALL PREPARE OR OBTAIN THE APPROPRIATE SAFETY SYSTEMS.
- CONTRACTOR TO NOTIFY MR. ALBERT LAZZANO, P.E., (JONES & CARTER, INC.) AT (713)-777-5337 EXT. 2467 FORTY-EIGHT (48) HOURS PRIOR TO CONSTRUCTION.

### CONTRACTOR WORK ZONE NOTES

- CONTRACTOR WILL BE REQUIRED TO MAINTAIN TWO LANES OPEN WHEN WORKING IN BOULEVARD SECTIONS. RESIDENTIAL SECTIONS WILL MAINTAIN ONE LANE OPEN WITH ADEQUATE SIGNAGE AND/OR FLAGMEN TO FACILITATE USE OF THE LANE.
- DRIVEWAY ACCESS WILL BE MAINTAINED OPEN AFTER WORKING HOURS. A MINIMUM OF ONE DRIVEWAY ACCESS WILL BE MAINTAINED OPEN AT ALL TIMES TO COMMERCIAL, APARTMENTS, AND/OR NON-RESIDENTIAL DEVELOPMENTS.
- THE LENGTH OF THE WORK ZONE MUST BE MINIMIZED WITHIN THE STREET ROW OR EASEMENTS. THERE SHALL NOT BE MORE THAN 200-FOOT OF TRENCH OPEN AT ANY ONE TIME. THE CONSTRUCTION ZONE WILL BE A ROLLING CONSTRUCTION ZONE WITH APPROPRIATE TRANSITIONS ON EACH END.
- SIGNALIZED INTERSECTIONS: LANES WILL NOT BE CLOSED AT A SIGNALIZED INTERSECTION, UNLESS APPROVED BY THE PROGRAM MANAGER. AN APPROPRIATE TRANSITION AS DEFINED IN THE TRAFFIC CONTROL PLAN WILL BE PROVIDED AT SIGNALIZED INTERSECTIONS.
- TEMPORARY PAVEMENT MARKERS: TEMPORARY EPOXY-GLUED BUTTONS OR "CONSTRUCTION GRADE" TAPE PAVEMENT MARKERS SHOULD BE USED ON PERMANENT PAVEMENT TO REMAIN IN-PLACE TO ELIMINATE GRINDING AND SCARRING OF THE SURFACE.
- PEDESTRIAN TRAFFIC: CARE SHALL BE TAKEN TO PROVIDE FOR TEMPORARY PEDESTRIAN TRAFFIC AND CROSSING AT AREAS SUCH AS SCHOOLS, PARKS, AND SHOPPING AREAS.

### FORT BEND COUNTY CONSTRUCTION - GENERAL NOTES

- FORT BEND COUNTY MUST BE INVITED TO THE PRE-CONSTRUCTION MEETING.
- 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
- 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.
- 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.
- ALL ROAD WIDTHS, CURB RADI AND CURB ALIGNMENT SHOWN INDICATES BACK OF CURB.
- A CONTINUOUS LONGITUDINAL REINFORCING BAR SHALL BE USED IN THE CURBS.
- ALL CONCRETE PAVEMENT SHALL BE 5" SACK CEMENT WITH A MINIMUM COMPRESSIVE STRENGTH OF 3500 PSI AT 28 DAYS. TRANSVERSE EXPANSION JOINTS SHALL BE INSTALLED AT EACH CURB RETURN AND AT A MAXIMUM SPACING OF 60 FEET.
- ALL WEATHER ACCESS TO ALL EXISTING STREETS AND DRIVEWAYS SHALL BE MAINTAINED AT ALL TIMES.
- 4"x12" REINFORCED CONCRETE CURB SHALL BE PLACED IN FRONT OF SINGLE FAMILY LOTS ONLY. ALL OTHER AREAS SHALL BE 6" REINFORCED CONCRETE CURB.
- 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.
- CURB HEADERS ARE REQUIRED AT CURB CONNECTIONS TO HANDICAP RAMPS, WITH NO CONSTRUCTION JOINT WITHIN 5' OF RAMPS.
- ALL INTERSECTIONS UTILIZING TRAFFIC CONTROL MEASURES SHALL HAVE A.D.A. WHEEL CHAIR RAMPS INSTALLED.
- GUIDELINES ARE SET FORTH IN THE TEXAS "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" AS CURRENTLY AMENDED, SHALL BE OBSERVED. THE CONTRACTOR SHALL BE RESPONSIBLE FOR PROVIDING ADEQUATE FLAGMEN, SOUNDING, STRIPING AND WARNING DEVICES, ETC., DURING CONSTRUCTION - BOTH DAY AND NIGHT.
- ALL RT-1 STOP SIGNS SHALL BE 30"x30" WITH DIAMOND GRADE SHEETING PER TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES.
- STREET NAME SIGNAGE SHALL BE ON A 9" HIGH SIGN PLAT BLADE W/REFLECTIVE GREEN BACKGROUND. STREET NAMES SHALL BE UPPER AND LOWERCASE, LETTERING WITH UPPER CASE 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.
- A BLUE DOUBLE REFLECTORIZED BUTTON SHALL BE PLACED AT ALL FIRE HYDRANT LOCATIONS. THE BUTTON SHALL BE PLACED 12 INCHES OFF OF THE CENTERLINE OF THE STREET ON THE SAME SIDE AS THE HYDRANT.
- THE PROJECT AND ALL PARTS THEREOF SHALL BE SUBJECT TO INSPECTION FROM TIME TO TIME BY INSPECTORS DESIGNATED BY FORT BEND COUNTY. NO SUCH INSPECTIONS SHALL RELIEVE THE CONTRACTOR OF ANY OF ITS OBLIGATIONS HEREUNDER. NEITHER FAILURE TO INSPECT NOR FAILURE TO DISCOVER OR RECTIFY ANY OF THE WORK AS NOTED IN ACCORDANCE WITH THE DRAWINGS AND SPECIFICATIONS, REQUIREMENTS AND SPECIFICATIONS OF FORT BEND COUNTY OR ANY PROVISION OF THIS PROJECT SHALL BE CONSIDERED TO IMPLY AN ACCEPTANCE OF SUCH WORK OR TO RELIEVE THE CONTRACTOR OF ANY OF ITS OBLIGATIONS HEREUNDER.

NOTE: FORT BEND COUNTY NOTES SUPERSEDE ANY CONFLICTING NOTES.

### DISTRICT NOTES

- ALL LINE WORK IS THE RESPONSIBILITY OF THE GENERAL CONTRACTOR.
- CALL THE DISTRICT OPERATOR, MR. BART DOMINUM, WITH ENVIRONMENTAL DEVELOPMENT PARTNERS AT (713) 395-3200 FOR INSPECTIONS.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT OPERATOR AT LEAST 48-HOURS PRIOR TO BEGINNING CONSTRUCTION AND PRIOR TO ANY FINAL INSPECTIONS.
- FORT BEND COUNTY MUD NO. 118 APPROVAL TO BE OBTAINED PRIOR TO ANY CONNECTIONS OF THE EXISTING STREET.
- CONTRACTOR SHALL USE EXTREME CARE WHEN CONNECTING TO THE EXISTING STREET. ANY DAMAGE INFLECTED TO EXISTING FACILITIES IS THE RESPONSIBILITY OF THE CONTRACTOR TO REPLACE TO EXISTING OR BETTER CONDITION. COORDINATE WITH DISTRICT OPERATOR AT LEAST 48-HOURS PRIOR TO CONNECTION TO STREET.

### PAVING CONSTRUCTION NOTES

- PAVEMENT SHALL BE IN ACCORDANCE WITH THE "REGULATIONS OF FORT BEND COUNTY, TEXAS FOR THE APPROVAL AND ACCEPTANCE OF INFRASTRUCTURE" AND/OR AMENDMENTS OF SAME.
- THE CONTRACTOR(S) SHALL NOTIFY FORT BEND COUNTY PUBLIC INFRASTRUCTURE DEPARTMENT - ENGINEERING DIVISION - PERMIT OFFICE, TWENTY-FOUR (24) HOURS IN ADVANCE OF COMMENCING UTILITY AND/OR PAVING CONSTRUCTION AT EMAIL: CONSTRUCTION@FORTBENDCOUNTYTX.GOV AND WRITTEN NOTIFICATION FORTY-EIGHT (48) HOURS IN ADVANCE OF COMMENCING CONSTRUCTION.
- ALL RETURNS SHALL HAVE A 25-FOOT RADIUS AT FACE OF CURB UNLESS OTHERWISE NOTED. ALL ROAD WIDTHS, CURB RADI AND CURB ALIGNMENT SHOWN INDICATES BACK OF CURB.
- GUIDELINES SET FORTH IN THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES" SHALL BE OBSERVED.
- ALL INTERSECTIONS SHALL BE CONSTRUCTED WITH WHEELCHAIR RAMPS IN ACCORDANCE WITH THE GOVERNOR'S OFFICE OF TRAFFIC SAFETY MEMORANDUM DATED MAY 6, 1978, (HIGHWAY SAFETY ACT - 1973 SECTION 208), SEE TxDOT PED-09 SHEET. WHEELCHAIR RAMPS SHALL COMPLY WITH CURRENT "THE AMERICANS WITH DISABILITIES ACT" (A.D.A.) SPECIFICATIONS. RAMPS TO BE COLORED WITH A COLOR TO BE DETERMINED BY THE ENGINEER CONFORMING TO ASTM-C578.
- ALL FILL IN EXISTING OR PROPOSED FORT BEND COUNTY RIGHT-OF-WAY, INCLUDING BACKDRESSING BEHIND THE CURB, SHALL BE PLACED IN MAXIMUM LOOSE LIFTS OF EIGHT INCHES (8") OR LESS AND COMPACTED TO 95% OF MAXIMUM DENSITY AT -3% TO +5% MOISTURE CONTENT AS DETERMINED BY AASHTO TEST METHOD T-99.
- ALL CONCRETE PAVEMENT TO BE 25-FOOT 8-B SIX (8) INCH REINFORCED CONCRETE WITH SIX (6) INCH REINFORCED CONCRETE CURBS, UNLESS OTHERWISE NOTED. ALL CONCRETE FOR PAVING TO BE 5 1/2" SACK, 3000 PSI - 28 DAYS.
- PAVEMENT REINFORCEMENT FOR 25-FOOT 8-B SIX (8) INCH REINFORCED CONCRETE SHALL BE #4, GRADE 60 STEEL REBAR ON 20.5-INCH CENTERS FOR LONGITUDINAL STEEL AND ON 36-INCH CENTERS FOR TRANSVERSE STEEL. REINFORCEMENT SHALL BE PLACED ON CHAIRS SPACED 36" CENTER TO CENTER. BENT BARS SHALL BE GRADE 40.
- REFER TO THE LATEST FORT BEND COUNTY PAVEMENT MARKING DETAILS AND FORT BEND COUNTY SUBDIVISION STANDARD PAVING DETAILS DATED NOVEMBER 15, 2005.
- SIDEWALK BOLLARDS CONSTRUCTED IN ESPLANADES SHALL BE SIX INCHES (6") THICK WITH SURFACE COLORED BLACK. WHEN CURBS ARE TEN FEET (10') AND LESS IN WIDTH FROM FACE-TO-FACE OF CURBS. FOR CONCRETE ROADWAYS, SURFACE SHALL BE COLORED BLACK. FOR ASPHALT ROADWAYS, SURFACE SHALL BE UNCOLORED.
- WHEEL CHAIR RAMPS SHALL BE TYPE "7" RAMPS. SEE TxDOT PED-12A DETAIL SHEET.

### PLAYGROUND NOTES

- PROJECT REFERENCES BO BURKE CUSTOM PLAYGROUND SET OR APPROVED EQUAL BY THE BOARD OF DIRECTORS OF FORT BEND COUNTY MUNICIPAL UTILITY DISTRICT NO. 118.
- PROJECT REFERENCES USA SHADE STRUCTURE WITH HP 40X40X10 POSTS OR APPROVED EQUAL BY THE BOARD OF DIRECTORS OF FORT BEND COUNTY MUNICIPAL UTILITY DISTRICT NO. 118.
- THE PLAYGROUND STRUCTURE FEATURES A VARIETY OF PLAY EQUIPMENT FOR 5-12 YEAR OLDS.
- THE PLAYGROUND STRUCTURE FEATURES ADA ACCESSIBLE EQUIPMENT AND SENSORY PLAY EQUIPMENT.
- ENGINEERED WOOD FIBER IS REQUIRED PER SPECIFICATIONS 11000.
- CONTRACTOR REQUIRED TO SUBMIT DRAWINGS OF THE PROPOSED PLAYGROUND EQUIPMENT PRIOR TO ISSUING PURCHASE ORDER.

### CENTERPOINT ENERGY (NOTES):

CAUTION: UNDERGROUND GAS FACILITIES

- LOCATIONS OF CENTERPOINT ENERGY MAIN LINES (TO INCLUDE CENTERPOINT ENERGY, INTRASTATE PIPELINE, LLC, WHERE APPLICABLE) ARE SHOWN IN AN APPROXIMATE MANNER ONLY. SERVICE LINES ARE USUALLY NOT SHOWN ON THESE PLANS. THE CONTRACTOR SHALL VERIFY THAT ALL RECENT ISSUE 2017) WITH ALL SUBSEQUENT AMENDMENTS ADDED THERETO UNLESS OTHERWISE NOTED AND APPROVED ON THESE PLANS. THE DESIGN MUST AGREE WITH THE MINIMUM STANDARDS ESTABLISHED IN THE LATEST ISSUE OF THE "INFRASTRUCTURE DESIGN MANUAL" (MOST RECENT ISSUE 2017).
- WHEN CENTERPOINT ENERGY PIPE LINE MARKINGS ARE NOT VISIBLE, CALL (713) 945-8036 OR (713)-945-8037 (7:00 A.M. TO 4:30 P.M.) FOR STATUS OF LINE. LOCATION REQUEST BEFORE EXCAVATION BEGINS.
  - WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF CENTERPOINT ENERGY FACILITIES, ALL EXCAVATION MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES.
  - WHEN CENTERPOINT ENERGY FACILITIES ARE EXPOSED, SUFFICIENT SUPPORT MUST BE PROVIDED TO THE FACILITIES TO PREVENT EXCESSIVE STRESS ON THE PPWMA.
  - FOR EMERGENCIES REGARDING GAS LINES CALL (713) 659-3552 OR (713) 207-4200.
- THE CONTRACTOR IS FULLY RESPONSIBLE FOR ANY DAMAGES CAUSED BY HIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND FACILITIES.

WARNING: OVERHEAD ELECTRICAL LINES

- OVERHEAD LINES MAY EXIST ON THE PROPERTY. THE LOCATION OF OVERHEAD LINES HAS NOT BEEN SHOWN ON THESE DRAWINGS AS THE LINES ARE CLEARLY VISIBLE, BUT YOU SHOULD LOCATE THEM PRIOR TO BEGINNING ANY CONSTRUCTION. TEXAS LAW, SECTION 792, HEALTH & SAFETY CODE FORBIDS ACTIVITIES THAT OCCUR IN CLOSE PROXIMITY TO HIGH VOLTAGE LINES, SPECIFICALLY:
- ANY ACTIVITY WHERE PERSON OR THINGS MAY COME WITHIN SIX (6) FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES; AND
  - OPERATING A CRANE, DERRICK, POWER SHOVEL, DRILLING RIG, PILE DRIVER, HOISTING EQUIPMENT, OR SIMILAR APPARATUS WITHIN 10 FEET OF LIVE OVERHEAD HIGH VOLTAGE LINES.

PARTIES RESPONSIBLE FOR THE WORK, INCLUDING CONTRACTORS ARE LEGALLY RESPONSIBLE FOR THE SAFETY OF CONSTRUCTION WORKERS UNDER THIS LAW. THIS LAW CARRIES BOTH CRIMINAL AND CIVIL LIABILITY. TO ARRANGE FOR LINES TO BE TURNED OFF OR REMOVED CALL CENTERPOINT ENERGY AT (713) 207-2222.

ACTIVITIES ON OR ACROSS CENTERPOINT ENERGY FEE OR EASEMENT PROPERTY NO APPROVAL TO USE, CROSS OR OCCUPY CENTERPOINT FEE OR EASEMENT PROPERTY IS GIVEN IF YOU NEED TO USE CENTERPOINT PROPERTY. PLEASE CONTACT OUR SURVEY & RIGHT OF WAY DIVISION AT (713) 207-8348 OR (713) 207-5769.

### AT&T TEXAS/SWBT FACILITIES:

- THE LOCATIONS OF AT&T TEXAS/SWBT FACILITIES ARE SHOWN IN AN APPROXIMATE MANNER ONLY. THE CONTRACTOR SHALL DETERMINE THE EXACT LOCATION BEFORE COMMENCING WORK. HE AGREES TO BE FULLY RESPONSIBLE FOR ANY AND ALL DAMAGES WHICH MIGHT BE OCCASIONED BY THIS FAILURE TO EXACTLY LOCATE AND PRESERVE THESE UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL CALL 1-800-344-8377 A MINIMUM OF 48 HOURS PRIOR TO CONSTRUCTION TO HAVE UNDERGROUND LINES FIELD LOCATED.
- WHEN EXCAVATING WITHIN EIGHTEEN INCHES (18") OF THE INDICATED LOCATION OF AT&T TEXAS/SWBT FACILITIES, ALL EXCAVATIONS MUST BE ACCOMPLISHED USING NON-MECHANIZED EXCAVATION PROCEDURES. WHEN BORING, THE CONTRACTOR SHALL EXPOSE THE AT&T TEXAS/SWBT FACILITIES.
- WHEN AT&T TEXAS/SWBT FACILITIES ARE EXPOSED, THE CONTRACTOR WILL PROVIDE SUPPORT TO PREVENT DAMAGE TO THE CONDUIT DUCTS OR CABLES. WHEN EXCAVATING NEAR TELEPHONE POLES THE CONTRACTOR SHALL BRACE THE POLE FOR SUPPORT.
- THE PRESENCE OR ABSENCE OF AT&T TEXAS/SWBT UNDERGROUND CONDUIT FACILITIES OR BURIED CABLE FACILITIES SHOWN ON THESE PLANS DOES NOT MEAN THAT THERE ARE NO DIRECT BURIED CABLES OR OTHER CABLES IN CONDUIT IN THE AREA.
- PLEASE CONTACT THE AT&T TEXAS DAMAGE PREVENTION MANAGER MR. ROOSEVELT LEE JR. AT (713)587-4552 OR E-MAIL HM AT RL725@att.com. IF THERE ARE QUESTIONS ABOUT BORING OR EXCAVATING NEAR OUR AT&T TEXAS/SWBT FACILITIES.

| PRIVATE UTILITY LINES SHOWN   |         |                    |         |
|---|---------|--------------------|---------|
| AT&T TEXAS/SWBT FACILITIES (EXHAUSTIVE LISTING OF ALL AT&T TEXAS/SWBT FACILITIES SHOWN ON THESE PLANS. IF THERE ARE ANY OTHER AT&T TEXAS/SWBT FACILITIES NOT SHOWN ON THESE PLANS, THE CONTRACTOR SHALL BE RESPONSIBLE FOR LOCATING AND PRESERVING THEM.) |         |                    |         |
| NOTE:   |         |                    |         |
| Do not excavate or bore within 18 inches of any of the facilities shown on these plans without first obtaining approval from the utility owner. If you are unsure of the location of any facility, contact the utility owner for assistance.              |         |                    |         |
| SIGNATURE OF PRIVATE UTILITY LINES  |         |                    |         |
| Signature   | Date    | Signature          | Date    |
| <i>[Signature]</i>  | 3/20/18 | <i>[Signature]</i> | 3/20/18 |
| Facilities shown on these plans are not intended to be used for any other purpose than the one for which they were designed.  |         |                    |         |
| Signature of AT&T Texas/SWBT Damage Prevention Manager: Mr. Roosevelt Lee Jr.   |         |                    |         |
| Date: 3-21-18   |         |                    |         |
| NO. DATE  |         |                    |         |
| REVISIONS   |         |                    |         |
| APP.  |         |                    |         |

FORT BEND COUNTY M.U.D. NO. 118  
FORT BEND COUNTY, TEXAS

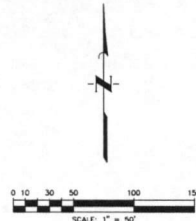
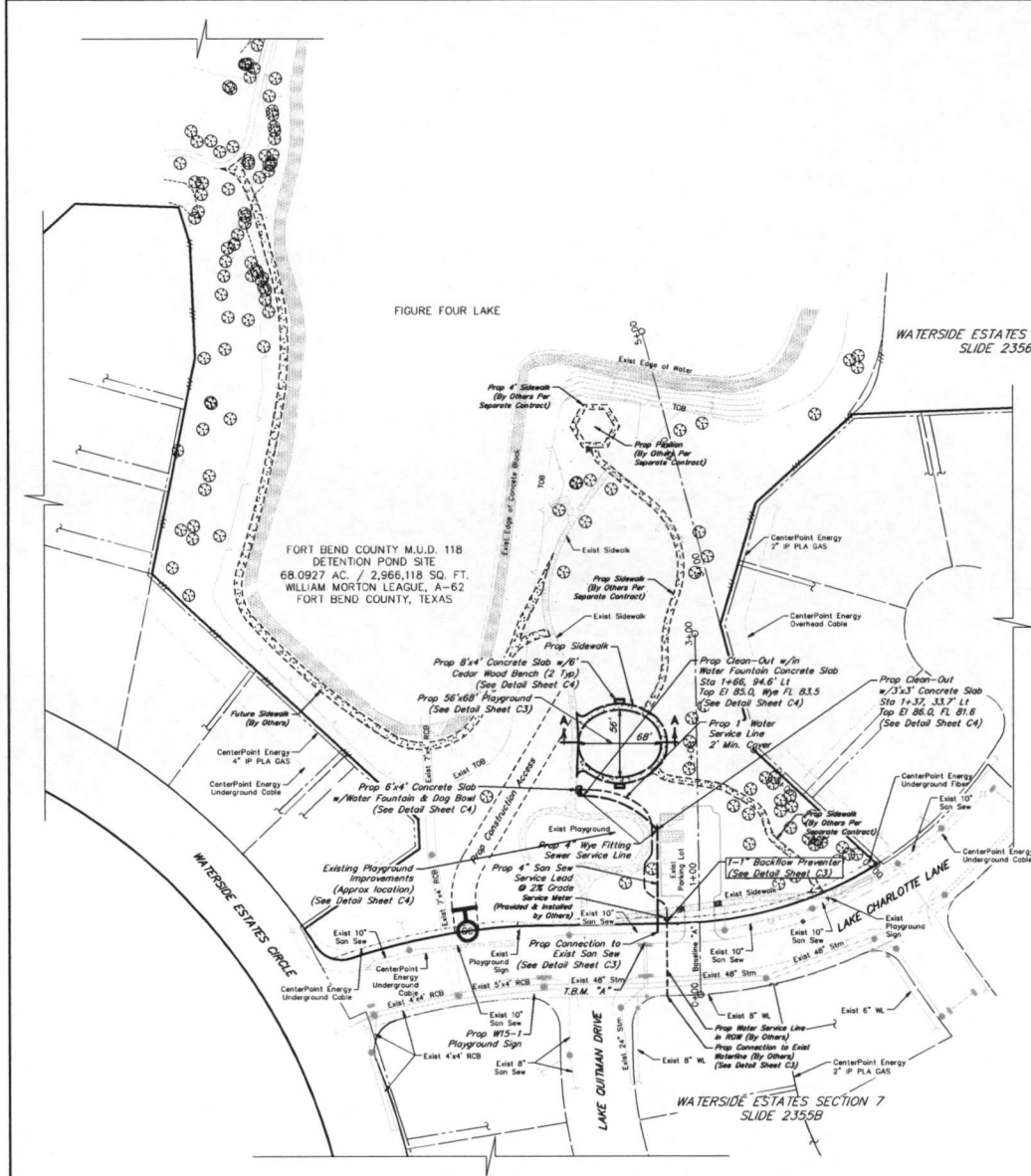
PLAYGROUND AT BARKS PARK

### GENERAL NOTES

| JONES & CARTER  |               |           |           |
|---|---------------|-----------|-----------|
| Texas Board of Professional Engineers Registration No. 4-439<br>6800 West Loop South, Suite 150 - Dallas, TX 75203 - 733.777.5387 |               |           |           |
| SCALE:  | AS SHOWN      | DGN. BY:  | MP/OK/KA  |
| DATE:   | MARCH 2018    | DWG. BY:  | JADELAINE |
| JOB NO.:  | 14431-0018-00 | DWG. NO.: |           |
| SUBMITTED:  |               | SURV. BY: |           |
| F.B. NO.  |               |           |           |
|    |               |           |           |
| 03/12/2018<br>G2<br>SHEET NO. 2 OF 9  |               |           |           |



0 1 2 3 4 5 ORIGINAL SCALE IN INCHES FOR REDUCED PLANS



**100-YEAR FLOOD PLAN**  
 ACCORDING TO MAP NO. 48157042D, OF THE FEDERAL EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE MAPS FOR FORT BEND COUNTY, TEXAS, DATED APRIL 2, 2014, THE TPOD AREA IS SITUATED WITHIN ZONE "A" DESIGNATED AS A SPECIAL FLOOD HAZARD AREA SUBJECT TO INUNDATION BY THE 1% ANNUAL CHANCE FLOOD EVENT (100-YEAR FLOOD) WITH BASE FLOOD ELEVATIONS DETERMINED. FLOODPLAIN AREAS IN ZONE "A" DEFINED AS THE CHANNEL OF A STREAM PLUS ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE KEPT FREE OF ENCROACHMENTS SO THAT THE 1% ANNUAL CHANCE FLOOD CAN BE CARRIED WITHOUT SUBSTANTIAL INCREASES IN FLOOD HEIGHTS AND UNDAMED ZONE "A" DEFINED AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN (500-YEAR FLOOD).

**BENCH MARK**  
 ELEVATIONS SHOWN HEREON ARE BASED ON FORT BEND COUNTY BENCHMARK NO. 88 LOCATED AT THE INTERSECTION OF THURMOND LAKE DRIVE AND EASTLAND LAKE DRIVE WITH A PUBLISHED ELEVATION OF 83.70 FEET, NAVD 83.  
**T.B.M. "A"**  
 TBM "A" BEING A SET OUT SQUARE ON A BB INLET LOCATED ON THE NORTHWEST CORNER OF LAKE CHARLOTTE LANE AND LAKE OUTMAN DRIVE.  
 ELEVATION = 84.21 FEET, NAVD 83.

**NOTES:**

1. CONTRACTOR TO LIMIT ACCESS OF HEAVY EQUIPMENT WITHIN AREA SHOWN FOR CONSTRUCTION OF PAVILION AND SIDEWALK.
2. CONTRACTOR IS RESPONSIBLE FOR SITE REPAIRS DUE TO DAMAGE FROM EQUIPMENT.
3. CONTRACTOR TO REPLACE ANY DAMAGED TREE AND/OR IRRIGATION SYSTEM TO EXISTING OR BETTER CONDITION.
4. LAYDOWN AREA NOT TO EXCEED 4,500 SQUARE FEET AND IS TO REMAIN A MINIMUM OF 15' AWAY FROM EXISTING FENCE LINES.

**LEGEND:**

- |  |                  |  |                     |  |                                |
|--|------------------|--|---------------------|--|--------------------------------|
|  | FUTURE           |  | EXISTING            |  | PROPOSED                       |
|  | EDGE OF PAVEMENT |  | WATER LINE          |  | SANITARY SEWER LINE            |
|  | STORM WATER LINE |  | TREE                |  | MANHOLE                        |
|  | STORM INLET      |  | BB-INLET            |  | SIGN                           |
|  | WATER VALVE      |  | LIGHT POLE          |  | PLAYGROUND SIGN                |
|  | BACKFLOW METER   |  | FILTER FABRIC FENCE |  | STABILIZED CONSTRUCTION ACCESS |

**PRIVATE UTILITY LINES SHOWN**  
 AT LEAST 48 HOURS BEFORE EXCAVATION IN STREET OR ON EXISTING PAVEMENT, THE LINE SHOWN NOTIFICATION 753-253-4081.  
 For any utility not shown on this map, the owner shall be responsible for locating and marking the utility before any excavation work is begun.  
 NOTICE: The owner shall be responsible for locating and marking the utility before any excavation work is begun.  
**NOTIFICATION OF PRIVATE UTILITY LINES**  
 I, CenterPoint Energy, do hereby certify that the utility lines shown on this map are the best information available to me at this time.  
 Date: 3/20/18  
 Signature: [Signature]  
 Title: Manager  
 Company: CenterPoint Energy  
 Address: 10000 West Loop South, Suite 150, Houston, TX 77060  
 Phone: 713.777.5337  
 Fax: 713.777.5337  
 E-mail: centerpoint@centerpointenergy.com  
 Approved by: [Signature] Date: 3-21-18  
 Title: Engineer  
 License No.: 100034  
 State: TX  
 NO. DATE REVISIONS APP.

FORT BEND COUNTY M.U.D. NO. 118  
 FORT BEND COUNTY, TEXAS  
**PLAYGROUND AT BARKS PARK**  
**OVERALL LAYOUT & SWPPP**

**JONES CARTER**  
 Texas Board of Professional Engineers Registration No. 8-429  
 6300 West Loop South, Suite 150 • Houston, TX 77060 • 713.777.5337  
 SCALE: 1"=50'  
 DATE: MARCH 2018  
 JOB NO.: 14421-0018-00  
 SUBMITTED: APR 05 2018  
 F.B. NO.:  
 DWN. BY: MPO/BJA  
 DWN. NO.:  
 SURV. BY:  
 F.B. NO.:  
 APPROVED: [Signature]  
 DATE: APR 05 2018  
 Development Coordinator  
 Valid One Year From Date  
 FORT BEND COUNTY ENGINEERING DEPT.  
 APPROVED: [Signature]  
 DATE: 03/12/2018  
 MICHAEL P. GURKA  
 100034  
 LICENSED PROFESSIONAL ENGINEER  
 STATE OF TEXAS  
 SHEET NO. 3 OF 9



**100-YEAR FLOOD PLAIN**  
 ACCORDING TO MAP NO. 4815700400, OF THE FEDERAL  
 EMERGENCY MANAGEMENT AGENCY'S FLOOD INSURANCE RATE  
 MAPS FOR FORT BEND COUNTY, TEXAS, DATED APRIL 2, 2014,  
 THE 100-YEAR FLOOD PLAIN IS SITUATED WITHIN ZONE "AE" DESCRIBED  
 AS A SPECIAL FLOOD HAZARD AREA SUBJECT TO INUNDATION  
 BY THE 1% ANNUAL CHANCE FLOOD EVENT (100-YEAR FLOOD).  
 WITH BASE FLOOD ELEVATIONS DETERMINED, FLOODPLAIN AREAS  
 IN ZONE "AE" DEFINED AS THE CHANNEL OF A STREAM PLUS  
 ANY ADJACENT FLOODPLAIN AREAS THAT MUST BE KEPT FREE  
 OF ENCROACHMENTS SO THAT THE 1% ANNUAL CHANCE FLOOD  
 CAN BE CARRIED WITHOUT SUBSTANTIAL INCREASES IN FLOOD  
 HEIGHTS AND UNARMED ZONE "Y" DEFINED AS AREAS  
 DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE  
 FLOODPLAIN (500-YEAR FLOOD).

**BENCH MARK**  
 ELEVATIONS SHOWN HEREON ARE BASED ON FORT BEND  
 COUNTY BENCHMARK NO. 88 LOCATED AT THE INTERSECTION  
 OF THURGOOD LANE DRIVE AND EASTLAND LAKE DRIVE  
 WITH A PUBLISHED ELEVATION OF 83.78 FEET, NAVD 88.  
**T.B.M. "A"**  
 TBM "A" BEING A SET OUT SQUARE ON A BB NUT LOCATED  
 ON THE NORTHWEST CORNER OF LAKE CHARLOTTE LANE AND  
 LAKE BOWMAN DRIVE.  
 ELEVATION = 84.21 FEET, NAVD 88.

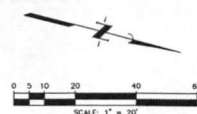
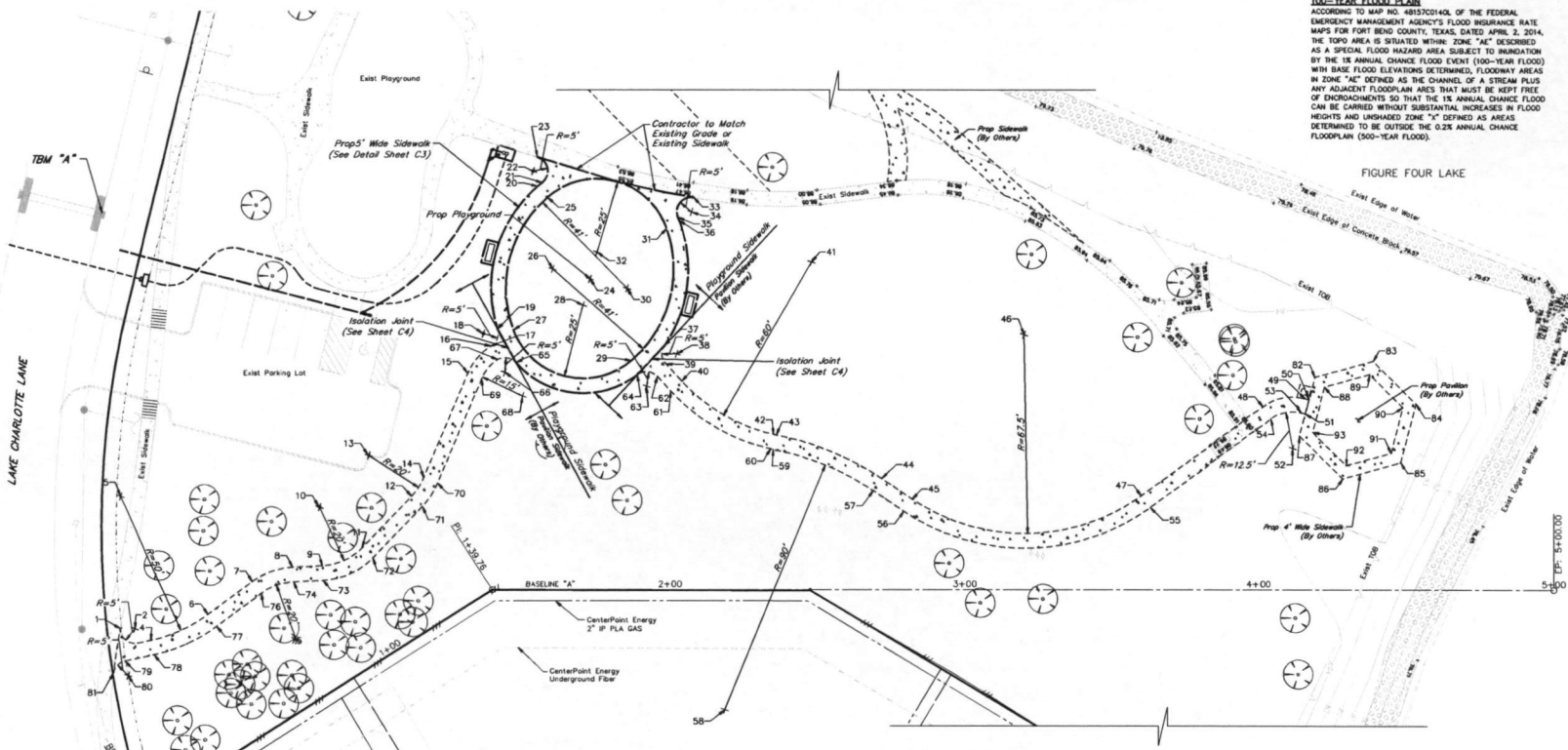


FIGURE FOUR LAKE



PROP PLAYGROUND SIDEWALK

| NUMBER | STATION  | OFFSET    | TOC   |
|--------|----------|-----------|-------|
| 19     | 1+41.73' | -88.614'  | 86.55 |
| 20     | 1+55.48' | -137.268' | 86.55 |
| 21     | 1+56.99' | -138.526' | 86.55 |
| 22     | 1+53.88' | -142.443' | 86.55 |
| 23     | 1+55.34' | -147.226' | 86.55 |
| 24     | 1+72.99' | -105.720' | 86.56 |
| 25     | 1+58.77' | -133.508' | 86.56 |
| 26     | 1+60.44' | -109.102' | 86.56 |
| 27     | 1+47.10' | -88.372'  | 86.56 |
| 28     | 1+70.64' | -96.771'  | 86.56 |
| 29     | 1+87.02' | -77.879'  | 86.56 |
| 30     | 1+85.59' | -102.492' | 86.56 |
| 31     | 1+99.04' | -122.924' | 86.56 |
| 32     | 1+75.39' | -114.828' | 86.55 |
| 33     | 2+08.37' | -133.411' | 86.47 |
| 34     | 2+07.60' | -128.517' | 86.47 |
| 35     | 2+02.92' | -126.743' | 86.47 |
| 36     | 2+03.36' | -125.668' | 86.47 |
| 37     | 1+98.29' | -82.964'  | 86.55 |
| 64     | 1+89.06' | -73.088'  | 86.55 |
| 65     | 1+47.93' | -77.172'  | 86.55 |

PROP PAVILION SIDEWALK (BY OTHERS)

| NUMBER | STATION  | OFFSET   | TOC  | NUMBER | STATION  | OFFSET    | TOC  | NUMBER | STATION  | OFFSET   | TOC  | NUMBER | STATION  | OFFSET   | TOC  |
|--------|----------|----------|------|--------|----------|-----------|------|--------|----------|----------|------|--------|----------|----------|------|
| 1      | 0+26.07' | -56.625' | 86.5 | 38     | 2+02.41' | -80.123'  | 86.5 | 58     | 2+18.51' | -40.711' | 86.4 | 78     | 0+31.31' | -42.902' | 86.6 |
| 2      | 0+30.28' | -53.940' | 86.5 | 39     | 1+98.72' | -76.748'  | 86.5 | 59     | 2+35.19' | -47.729' | 86.6 | 79     | 0+21.52' | -46.516' | 86.6 |
| 3      | 0+28.55' | -49.250' | 86.5 | 40     | 2+04.07' | -70.906'  | 86.5 | 60     | 2+34.32' | -47.923' | 86.6 | 80     | 0+19.79' | -41.820' | 86.6 |
| 4      | 0+33.04' | -47.592' | 86.5 | 41     | 2+48.33' | -111.412' | 86.4 | 61     | 2+00.38' | -67.530' | 86.5 | 81     | 0+16.13' | -45.234' | 86.6 |
| 5      | 0+50.37' | -94.493' | 86.5 | 42     | 2+35.40' | -52.823'  | 86.5 | 62     | 1+95.81' | -72.513' | 86.5 | 82     | 4+19.24' | -72.223' | 85.7 |
| 6      | 0+53.96' | -44.622' | 86.5 | 43     | 2+36.19' | -52.647'  | 86.5 | 63     | 1+92.13' | -69.141' | 86.5 | 83     | 4+39.13' | -77.654' | 85.7 |
| 7      | 0+72.73' | -45.972' | 86.5 | 44     | 2+71.92' | -37.872'  | 86.2 | 64     | 1+89.06' | -73.088' | 86.5 | 84     | 4+53.78' | -63.143' | 85.7 |
| 8      | 0+86.91' | -42.751' | 86.5 | 45     | 2+82.25' | -30.842'  | 86.2 | 65     | 1+47.93' | -77.172' | 86.5 | 85     | 4+48.54' | -43.202' | 85.7 |
| 9      | 0+95.65' | -37.763' | 86.5 | 46     | 3+20.20' | -86.666'  | 86.1 | 66     | 1+44.14' | -73.905' | 86.5 | 86     | 4+28.65' | -37.771' | 85.7 |
| 10     | 1+05.56' | -55.135' | 86.5 | 47     | 3+59.88' | -32.067'  | 85.9 | 67     | 1+41.75' | -78.293' | 86.5 | 87     | 4+14.00' | -52.281' | 85.7 |
| 11     | 1+10.34' | -35.714' | 86.5 | 48     | 4+01.33' | -62.195'  | 85.8 | 68     | 1+50.13' | -65.855' | 86.6 | 88     | 4+22.52' | -68.972' | 85.8 |
| 12     | 1+33.88' | -41.506' | 86.5 | 49     | 4+16.07' | -64.965'  | 85.7 | 69     | 1+39.76' | -71.805' | 86.6 | 89     | 4+37.96' | -73.187' | 85.8 |
| 13     | 1+29.11' | -60.927' | 86.5 | 50     | 4+17.26' | -64.653'  | 85.7 | 70     | 1+39.76' | -40.773' | 86.6 | 90     | 4+49.33' | -61.927' | 85.8 |
| 14     | 1+39.76' | -44.691' | 86.5 | 51     | 4+15.98' | -59.819'  | 85.7 | 71     | 1+35.08' | -36.651' | 86.6 | 91     | 4+45.26' | -46.452' | 85.8 |
| 15     | 1+39.76' | -74.116' | 86.5 | 52     | 4+11.62' | -48.040'  | 85.9 | 72     | 1+11.53' | -30.858' | 86.6 | 92     | 4+29.82' | -42.238' | 85.8 |
| 16     | 1+39.76' | -82.811' | 86.5 | 53     | 4+14.80' | -60.129'  | 85.7 | 73     | 0+93.17' | -33.420' | 86.6 | 93     | 4+18.46' | -53.498' | 85.8 |
| 17     | 1+39.76' | -82.867' | 86.5 | 54     | 4+04.27' | -58.151'  | 85.9 | 74     | 0+84.43' | -38.408' | 86.6 |        |          |          |      |
| 18     | 1+39.76' | -87.151' | 86.5 | 55     | 3+62.82' | -28.022'  | 86   | 75     | 0+74.52' | -21.037' | 86.6 |        |          |          |      |
| 19     | 1+41.73' | -88.614' | 86.5 | 56     | 2+79.44' | -26.707'  | 86.3 | 76     | 0+73.09' | -40.985' | 86.6 |        |          |          |      |
| 37     | 1+98.29' | -82.964' | 86.5 | 57     | 2+69.10' | -33.721'  | 86.3 | 77     | 0+54.31' | -39.635' | 86.6 |        |          |          |      |

- NOTES:**
- CONTRACTOR SHALL NOT DAMAGE ANY EXISTING TREES WITHIN THE WORK AREA.
  - CONTRACTOR SHALL USE EXTREME CAUTION WHILE WORKING IN THIS AREA DUE TO PROXIMITY TO RESIDENTIAL HOMES AND EXISTING PLAY AREA.
  - CONTRACTOR MAY BE ALLOWED TO SPREAD EXCAVATED SOIL ON SITE IN LOW AREAS, AS DIRECTED BY THE ENGINEER. SPECIFIC LOCATIONS MUST BE APPROVED BY OWNER AND/OR ENGINEER. EXCESS SPOILS TO BE HAULED OFF SITE.
  - IF CONTRACTOR IS THE FIRST TO INSTALL SIDEWALK, PROVIDE DOWELS FOR FUTURE SIDEWALK.

**PRIVATE UTILITY LINES SHOWN**  
 AT A 24-HOUR NOTICE BEFORE EXCAVATING IN STREET OR ON EASEMENTS CALL THE ONE CALL NOTIFICATION 713-233-4267  
 TO AVOID THE RISK OF DAMAGE TO THE UNDERGROUND LINES OF THE UTILITY COMPANIES.

**NOTICE:**  
 THE CONTRACTOR SHALL BE RESPONSIBLE FOR OBTAINING ALL NECESSARY PERMITS AND APPROVALS FROM THE APPROPRIATE AGENCIES AND AGENCIES.

**NOTIFICATION OF PRIVATE UTILITY LINES**  
 The undersigned hereby certifies that the location and depth of the utility lines shown on this plan are true and correct to the best of his knowledge and belief.

Signature: \_\_\_\_\_ Date: 3/20/18  
 Title: \_\_\_\_\_  
 Company: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: 3/20/18  
 Title: \_\_\_\_\_  
 Company: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: 3-21-18  
 Title: \_\_\_\_\_  
 Company: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Company: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Company: \_\_\_\_\_

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 Title: \_\_\_\_\_  
 Company: \_\_\_\_\_

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 Title: \_\_\_\_\_  
 Company: \_\_\_\_\_

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 Company: \_\_\_\_\_

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 Title: \_\_\_\_\_  
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 Company: \_\_\_\_\_

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 Title: \_\_\_\_\_  
 Company: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Company: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Title: \_\_\_\_\_  
 Company: \_\_\_\_\_

Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
 Title: \_\_\_\_\_  
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Signature: \_\_\_\_\_ Date: \_\_\_\_\_  
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03/12/2018

C2

SHEET NO. 4 OF 9









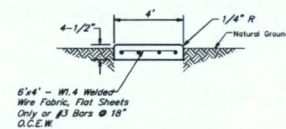
**WATER FOUNTAIN**  
NOT TO SCALE

**NOTES:**  
FOR VISUAL CLARITY ONLY.  
SEE SPECIFICATION 11001

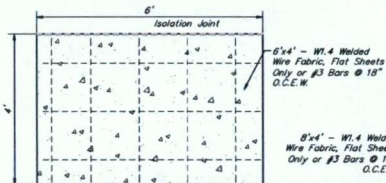


**EXISTING WOOD BENCH**  
NOT TO SCALE

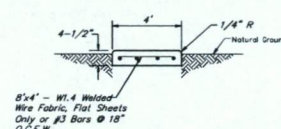
**NOTES:**  
FOR VISUAL CLARITY ONLY, PROPOSED BENCHES TO MATCH EXISTING BENCHES AT EXISTING PLAYGROUND. BENCH TO BE 6' SINGLE SIDED BENCH WITH 4"x4" CEDAR OR APPROVED EQUAL. SEE SPECIFICATION 11002



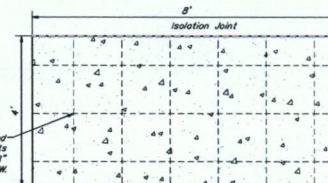
**WATER FOUNTAIN CONCRETE SLAB DETAIL**  
NOT TO SCALE



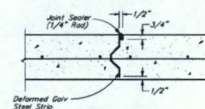
**PLAN VIEW WATER FOUNTAIN CONCRETE SLAB**  
NOT TO SCALE



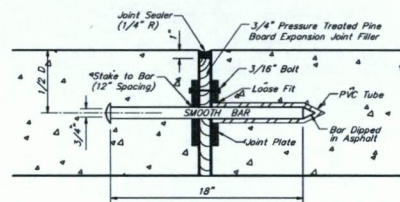
**WOOD BENCH CONCRETE SLAB DETAIL**  
NOT TO SCALE



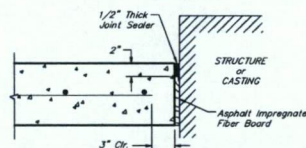
**PLAN VIEW WOOD BENCH CONCRETE SLAB**  
NOT TO SCALE



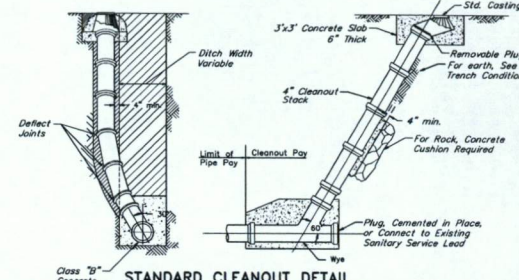
**TYPICAL KEYED CONSTRUCTION JOINT**  
NOT TO SCALE



**EXPANSION JOINT**  
NOT TO SCALE



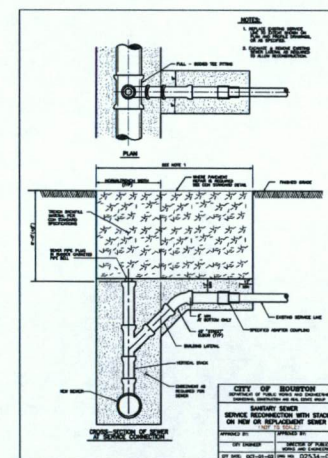
**ISOLATION JOINT**  
NOT TO SCALE



**STANDARD CLEANOUT DETAIL**  
NOT TO SCALE



**STANDARD CAST IRON CLEANOUT DETAIL**  
NOT TO SCALE



APPROVED: \_\_\_\_\_  
Developer/Contractor  
DATE: \_\_\_\_\_

| NO. | DATE | REVISIONS | APP. |
|-----|------|-----------|------|
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FORT BEND COUNTY M.U.D. No. 118  
FORT BEND COUNTY, TEXAS

PLAYGROUND AT BARKS PARK

MISCELLANEOUS DETAILS

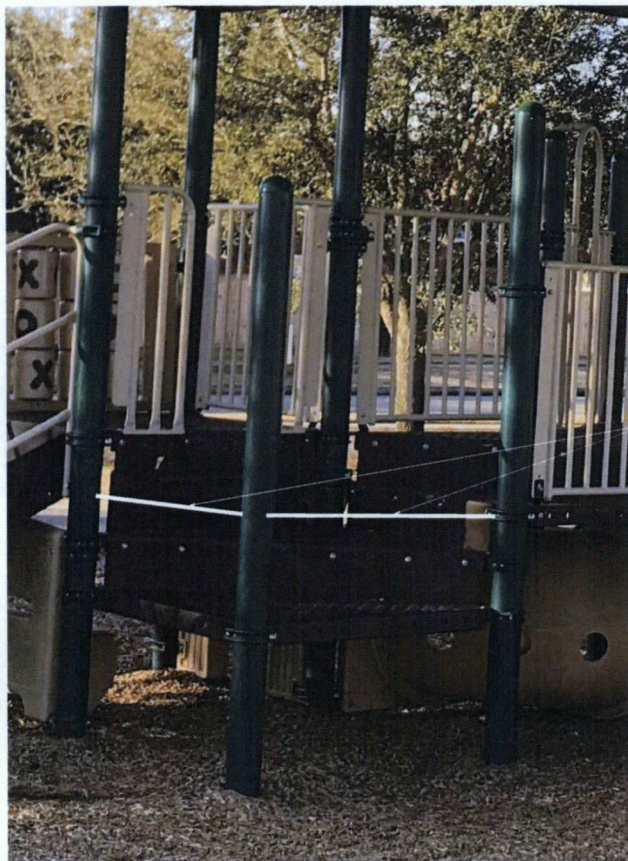
**J.C. JONES & CARTER**  
Texas Board of Professional Engineers Registration No. F-438  
6300 West Loop South, Suite 150 • Houston, TX 77061 • 713.777.5837

SCALE: AS SHOWN DGN. BY: MPOURBA  
DATE: MARCH 2018 DWN. BY: JADELAINE  
JOB NO. 14421-0018-00 DWG. NO. \_\_\_\_\_  
SUBMITTED: \_\_\_\_\_ SURV. BY: \_\_\_\_\_  
F.B. NO. \_\_\_\_\_



Michael P. Burke  
03/12/2018



0 1 2 3 4 5  
ORIGINAL SCALE IN INCHES FOR REDUCED PLANS

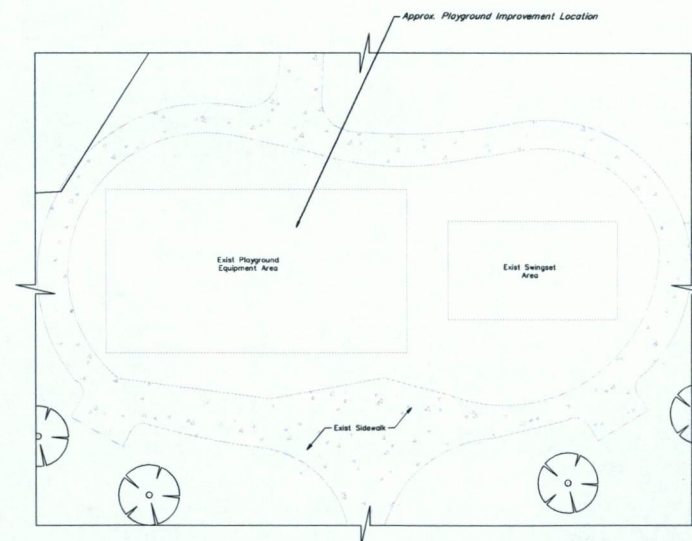
Install Two (2) Safety Railings per  
Existing Manufacturer's Recommendations  
(See Note 1 & 2)

**NOTES:**

1. Proposed safety railings to match existing playground color and material of poles.
2. Safety railings must be purchased from existing manufacturer.
3. Existing playground is located near the intersection of Lake Charlotte Lane and Lake Quitman Drive.

**EXISTING PLAYGROUND**  
NOT TO SCALE

**NOTES:**  
FOR VISUAL CLARITY ONLY.



APPROVED: \_\_\_\_\_  
APR 05 2018  
Development Coordinator  
DATE: \_\_\_\_\_  
Valid One Year  
From Date

| NO. | DATE | REVISIONS | APP. |
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FORT BEND COUNTY M.U.D. No. 118  
FORT BEND COUNTY, TEXAS

PLAYGROUND AT BARKS PARK

EXISTING PLAYGROUND  
IMPROVEMENTS

**JC JONES CARTER**  
Texas Board of Professional Engineers Registration No. F-439  
6300 West Loop South, Suite 120 • Dallas, TX 75205 • 733.777.5337

SCALE: AS SHOWN DGN. BY: MP/GRKA  
DATE: MARCH 2018 DWN. BY: JADELAUNE  
JOB NO. 144721-0018-00 DWG. NO. \_\_\_\_\_  
SUBMITTED: \_\_\_\_\_ SURV. BY: \_\_\_\_\_  
F.B. NO. \_\_\_\_\_

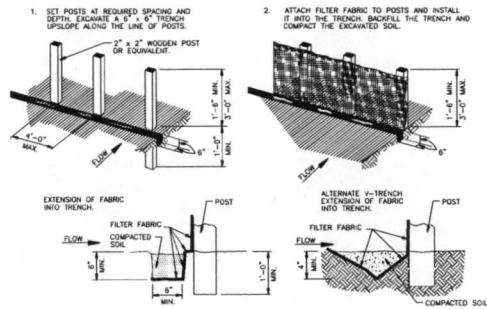


03/12/2018  
Michael P. Gurka

C5

SHEET NO. 7 OF 9

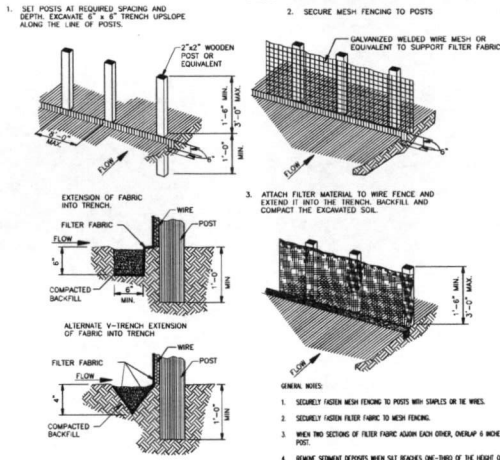




GENERAL NOTES:

1. SET POSTS AT 4-6 FEET MINIMUM SPACING. IF FACTORY PREASSEMBLED FENCE WITH SUPPORT NETTING IS USED, SPACING OF POST MAY BE REDUCED TO 8 FEET MINIMUM.
2. WHEN TWO SECTIONS OF FILTER FABRIC ADJACENT EACH OTHER, OVERLAP 8 INCHES AT THE POST, FOLD TOGETHER, AND ATTACH TO POSTS.
3. REMOVE SEDIMENT DEPOSITS WHEN SAT DEPTH REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE.

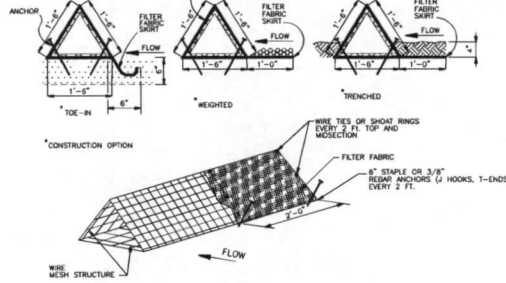
**FILTER FABRIC FENCE**



GENERAL NOTES:

1. SECURELY FASTEN WIRE FENCING TO POSTS WITH STAPLES OR TO WIRE.
2. SECURELY FASTEN FILTER FABRIC TO WIRE FENCING.
3. WHEN TWO SECTIONS OF FILTER FABRIC ADJACENT EACH OTHER, OVERLAP 8 INCHES AT A POST, FOLD TOGETHER, AND ATTACH TO A POST.
4. REMOVE SEDIMENT DEPOSITS WHEN SAT REACHES ONE-THIRD OF THE HEIGHT OF THE FENCE IN DEPTH.

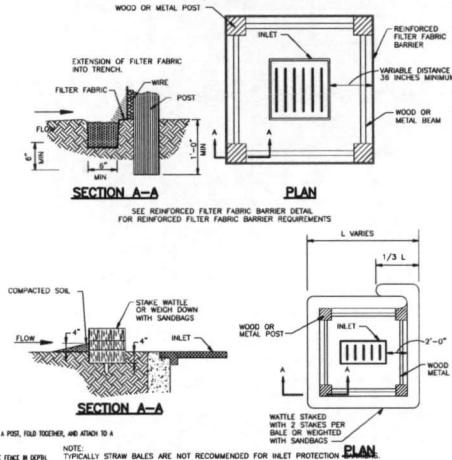
**REINFORCED FILTER FABRIC BARRIER**



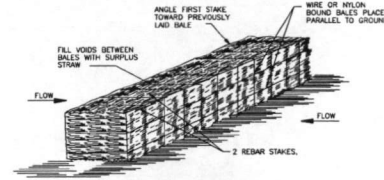
GENERAL NOTES:

1. PLACE BARRIER IN A ROW WITH ENDS TIGHTLY ADJACENT TO EACH OTHER.
2. USE ONE CONTINUOUS SECTION OF FILTER FABRIC, WRAP FABRIC AROUND WIRE MESH AND EXTEND FABRIC TO FORM SHIRT ON THE UPOWSIDE SIDE.
3. WEIGHT SHIRT WITH A CONTINUOUS LAYER OF 3-INCH TO 5-INCH OPEN GRADED ROCK, OR TIE IN SHIRT WITH SIX INCHES WITH MECHANICALLY COMPACTED MATERIAL.
4. SECURELY ANCHOR BARRIER AND SHIRT IN PLACE USING 6-INCH WIRE STAPLES ON 2-FOOT CENTERS ON BOTH SIDES, OR STAKE LONG 18-INCH BY 1/2 INCH (2-PIECE, 2-PIECE).
5. FILTER FABRIC SHALL BE LAPPED OVER (ENDS 6 INCHES TO COVER SEAM) JOINTS. FASTEN JOINTS WITH GALVANIZED SHOOT RINGS OR EQUIVALENT.
6. THE BARRIER STRUCTURE SHALL BE WEIGHED WIRE MESH, 18 INCHES ON EACH SIDE.

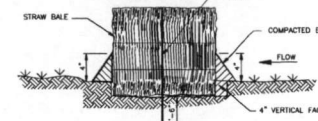
**TRIANGULAR FILTER FABRIC FENCE**



**INLET PROTECTION BARRIERS FOR STAGE I INLETS**



**STRAW BALE FENCE**

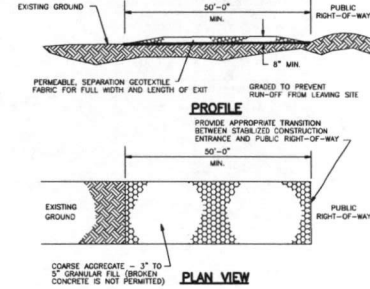


**SECTION**

GENERAL NOTES:

1. LAY USE TO DETERMINE SIZES FOR PURPOSES OF LOW FLOW VELOCITY RESISTANCE FOR DESIGN CONSIDERATION. USE STRAW BALE FENCES TO BRUSH BRUSH FOR ONLY. DO NOT USE BRUSH BERM TO TREAT FLOW IN CHANNELS.
2. PLACE BALES IN A ROW WITH ENDS TIGHTLY ADJACENT TO EACH OTHER. FILL THE VOIDS BETWEEN BALES WITH SURPLUS STRAW. PLACE BALES WITH BRUSH BRUSH TO GROUND SURFACE.
3. MEND EACH BALE AT LEAST 4 INCHES IN THE SOIL.
4. SECURELY ANCHOR BALES IN PLACE BY REDBAR STAKES. DRIVE STAKES THROUGH THE BALES AND AT LEAST 18 INCHES INTO THE GROUND. ANGLE THE STAKE IN EACH BAILE TOWARD THE PREVIOUS BALE TO FORCE THE BALES TOGETHER.
5. TWO BALES WITH WIRE OR NYLON ROPE TIED ACROSS THE STRAW BALES.
6. REPLACE WITH NEW STRAW BALE FENCE OVER TWO MONTHS.
7. BALES SHOWN WITH THE GROUND ARE A PREFERRED SUBSTITUTE FOR STRAW BALE FENCES.

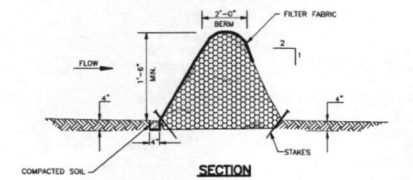
**STRAW BALE FENCE**



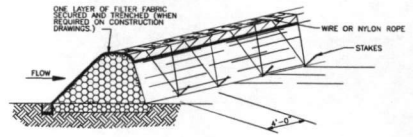
GENERAL NOTES:

1. MINIMUM LENGTH IS AS SHOWN ON CONSTRUCTION DRAWINGS OR 50 FEET, WHICHEVER IS MORE.
2. CONSTRUCT AND MAINTAIN CONSTRUCTION LANE WITH CONCURE WITHIN ACCESS TO LENGTH, INCLUDING ALL POINTS OF ENTRIES OR EXITS.
3. UNLESS SHOWN ON THE CONSTRUCTION DRAWINGS, STABILIZATION FOR OTHER AREAS WILL HAVE THE SAME AGGREGATE THICKNESS AND WIDTH REQUIREMENTS AS THE STABILIZED CONSTRUCTION LANE.
4. WHEN SHOWN ON THE CONSTRUCTION DRAWINGS, WIDTH OF LENGTH STABILIZED AREA TO ACCOMMODATE A TRUCK TRAILING AREA. PROVIDE OUTLET STABILIZED TRAP FOR THE TRUCK TRAILING AREA.
5. PROVIDE PERMANENT TOP DRESSING WITH AGGREGATE CONCURE AGGREGATE TO MAINTAIN THE REQUIRED DEPTH ON WHEN SURFACE BECOMES POOLED WITH MUD.
6. PERIODICALLY TURN AGGREGATE TO EXPOSE A CLEAN DRAINING SURFACE.
7. ALTERNATE METHODS OF CONSTRUCTION INCLUDE: CONCRETE CHANNELS: STAKE: COMPACTED EARTH STABILIZED SOIL, LIME/STONE AGGREGATE, OR OTHER ALL MATERIAL IN AN APPLICATION OF THICKNESS OF 8 INCHES. WOOD BALES: ONE OR OTHER HORIZONTAL BALES PLACED SIDE TO SIDE AND ACROSS SUPPORT WOODEN BEAMS WHICH ARE PLACED ON TOP OF EXISTING SOIL IN AN APPLICATION THICKNESS OF 8 INCHES. (SEE NOTE: PREPARED AND PLACED ACROSS PERPENDICULAR SUPPORT MEMBERS).

**STABILIZED CONSTRUCTION ACCESS**



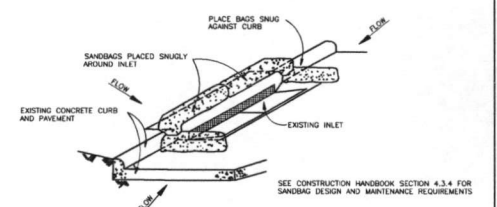
**SECTION**



GENERAL NOTES:

1. LAY USE TO DETERMINE SIZES FOR PURPOSES OF LOW FLOW VELOCITY RESISTANCE FOR DESIGN CONSIDERATION. USE BRUSH BERM TO TREAT OVERLAND FLOW ONLY. DO NOT USE BRUSH BERM TO TREAT FLOW IN CHANNELS.
2. PLACE WOODY BRUSH AND BRANCHED TWIGS HAVING A DIAMETER OF LESS THAN 2 INCHES WITH A 6-INCH OVERLAP. AVOID INCORPORATION OF BRUSH, WOOD AND SOIL INTO BRUSH BERM.
3. MINIMUM HEIGHT OF THE BRUSH BERM IS 18 INCHES, MEASURED FROM THE TOP OF THE EXISTING GROUND AT THE UPOWSIDE TO THE TOP OF THE BERM.
4. HANG PLACE BRUSH BEAMS ALONG CONTOUR LINES. MAXIMUM PLACEMENT OF BRUSH BEAMS IS NOT PERMITTED.
5. MEND BRUSH BEAMS AT LEAST 4 INCHES INTO THE SOIL.
6. ANCHOR BRUSH BEAMS USING WIRE OR NYLON ROPE ACROSS THE BERM WITH A MINIMUM TENSION OF 50 POUNDS.
7. SECURELY THE ROPE TO 18-INCH REDBAR STAKES DRIVEN INTO THE GROUND ON 4-FOOT CENTERS ON BOTH SIDES OF THE BERM.
8. PERFORM MAINTENANCE AS NEEDED.

**BRUSH BERM**



GENERAL NOTES:

1. BARS OR WATERS CAN BE USED FOR THIS APPLICATION.
2. PREPARE WOODEN OR UNWORN GEOTEXTILE FILTER FABRIC FOR BARS.
3. PROVIDE CONCURE SAND AND AGGREGATE MIX FOR FILL MATERIAL FOR BARS. USE ONLY PARTICLES CONSISTING OF CLEAN, WASHED, GRAVEL, SAND, OR OTHER MATERIALS. DO NOT USE ORGANIC MATERIALS, SOIL, OR FERTILIZERS.
4. REMOVE SEDIMENT DEPOSITS WHEN THE SEDIMENT HAS ACCUMULATED TO ONE-THIRD THE HEIGHT OF THE BARRIER.

**INLET PROTECTION BARRIERS FOR STAGE II INLETS**



CONSTRUCTION HANDBOOK—STORM WATER MANAGEMENT—HARRIS COUNTY, TEXAS  
FOR CONSTRUCTION ACTIVITIES PREPARED BY CITY OF HOUSTON, HARRIS COUNTY, AND HARRIS COUNTY FLOOD CONTROL DISTRICT, 2001 EDITION.

APPROVAL IS IMPLIED FOR IMPROVEMENTS WITHIN FORT BEND COUNTY RIGHTS OF WAY ONLY. UTILITY LINES APPROVED AS TO LOCATION ONLY. AUTHORIZATION IS VALID FOR 1 YEAR FROM DATE OF APPROVAL.

APPROVED: \_\_\_\_\_ F.B.C. DEVELOPMENT COORDINATOR

DATE: \_\_\_\_\_



14421-0016-00

| STORM WATER POLLUTION PREVENTION PLAN DETAILS |          |             |               |
|---|----------|-------------|---------------|
| DESIGNED BY                                   | JADLAUNE | PROJECT NO. | 14421-0016-00 |
| CHECKED BY                                    | N.T.S.   | DATE        | 11/29/16      |
| APPROVED BY                                   |          | DATE        | 8 OF 9        |



03/12/2018

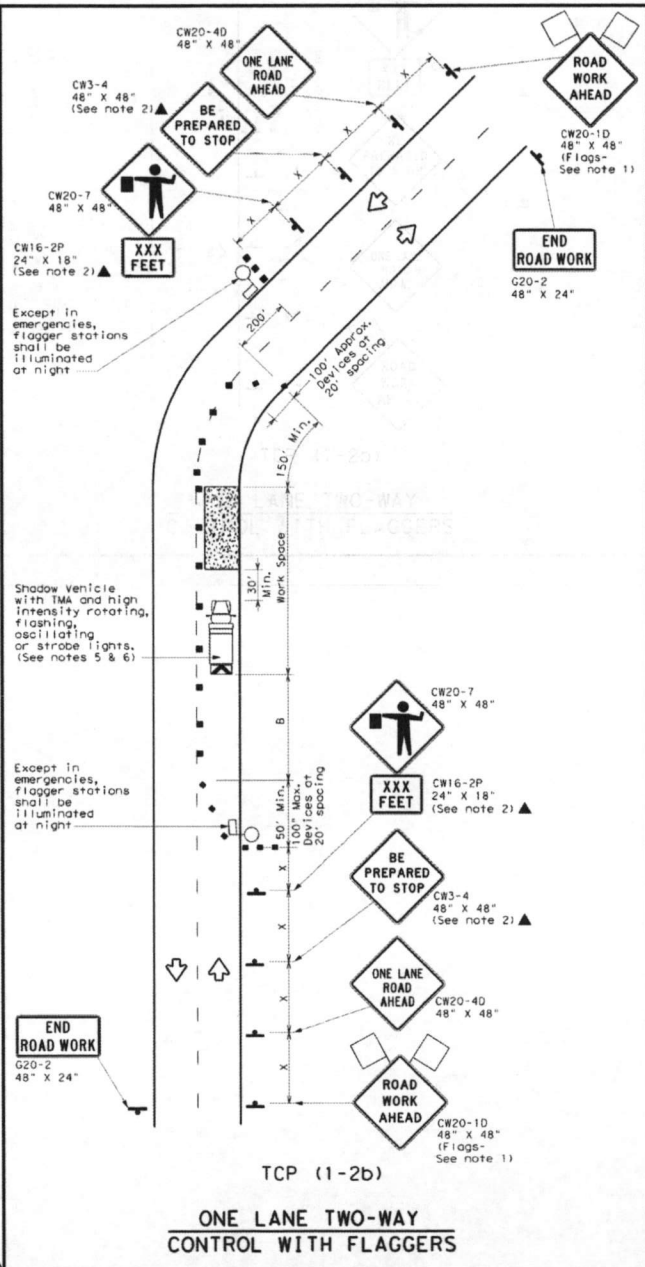
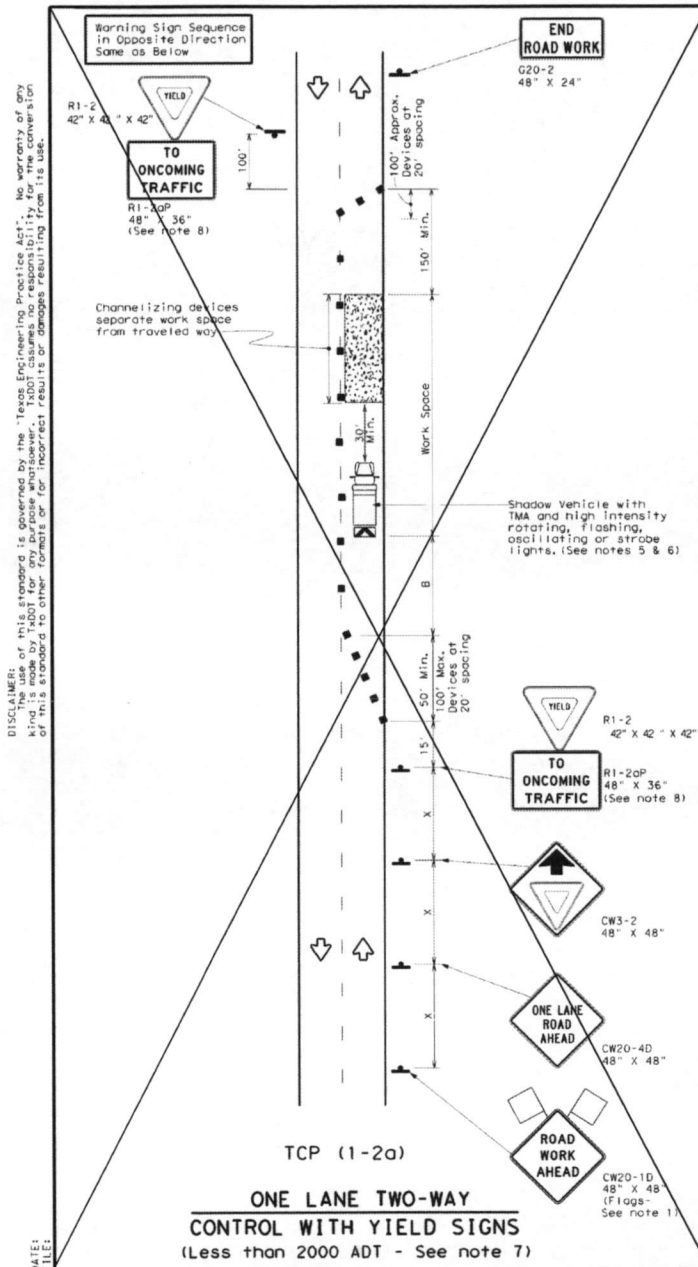


FORT BEND COUNTY  
ENGINEERING DEPARTMENT



| NO. | REVISIONS | DATE | NAME |
|-----|-----------|------|------|
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**LEGEND**

|                                      |   |
|--------------------------------------|---|
| Type 3 Barricade                     | Channelizing Devices                    |
| Heavy Work Vehicle                   | Truck Mounted Attenuator (TMA)          |
| Trailer Mounted Flashing Arrow Board | Portable Changeable Message Sign (PCMS) |
| Sign                                 | Traffic Flow                            |
| Flag                                 | Flagger                                 |

| Posted Speed | Formula                  | Minimum Desirable Taper Lengths  | Suggested Maximum Spacing of Channelizing Devices | Minimum Sign Spacing | Suggested Longitudinal Buffer Space | Stopping Distance |
|--------------|--------------------------|----------------------------------|---|----------------------|-------------------------------------|-------------------|
| M            |                          | 10' 11' 12' Offset/Offset/Offset | On a Taper On a Tangent                           | Distance             | "B"                                 |                   |
| 30           | L = WS <sup>2</sup> / 60 | 150' 165' 180'                   | 30' 60'   | 120'                 | 90'                                 | 200'              |
| 35           |                          | 205' 225' 245'                   | 35' 70'   | 160'                 | 120'                                | 250'              |
| 40           |                          | 265' 295' 320'                   | 40' 80'   | 240'                 | 155'                                | 305'              |
| 45           | L = WS                   | 450' 495' 540'                   | 45' 90'   | 320'                 | 195'                                | 360'              |
| 50           |                          | 500' 550' 600'                   | 50' 100'  | 400'                 | 240'                                | 425'              |
| 55           |                          | 550' 605' 660'                   | 55' 110'  | 500'                 | 295'                                | 495'              |
| 60           |                          | 600' 660' 720'                   | 60' 120'  | 600'                 | 350'                                | 570'              |
| 65           |                          | 650' 715' 780'                   | 65' 130'  | 700'                 | 410'                                | 645'              |
| 70           |                          | 700' 770' 840'                   | 70' 140'  | 800'                 | 475'                                | 730'              |
| 75           |                          | 750' 825' 900'                   | 75' 150'  | 900'                 | 540'                                | 820'              |

\* Conventional Roads Only  
 \*\* Taper lengths have been rounded off.  
 L=Length of Taper (FT) B=Width of Offset (FT) S=Posted Speed (MPH)

**TYPICAL USAGE**

| MOBILE | SHORT DURATION | SHORT TERM STATIONARY | INTERMEDIATE TERM STATIONARY | LONG TERM STATIONARY |
|--------|----------------|-----------------------|------------------------------|----------------------|
|        | ✓              | ✓                     |                              |                      |

**GENERAL NOTES**

- Flags attached to signs where shown are REQUIRED.
- All traffic control devices illustrated are REQUIRED, except those denoted with the triangle symbol may be omitted when stated elsewhere in the plans, or for routine maintenance work, when approved by the Engineer.
- The CW3-4 "BE PREPARED TO STOP" sign may be installed after the CW20-4D "ONE LANE ROAD AHEAD" sign, but proper sign spacing shall be maintained.
- Sign spacing may be increased or an additional CW20-1D "ROAD WORK AHEAD" sign may be used if advance warning ahead of the flagger or R1-2 "YIELD" sign is less than 1500 feet.
- A Shadow Vehicle with a TMA should be used anytime it can be positioned 30 to 100 feet in advance of the area of crew exposure without adversely affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control to remain in place, Type 3 Barricades or other channelizing devices may be substituted for the Shadow Vehicle and TMA.
- Additional Shadow Vehicles with TMAs may be positioned off the paved surface, next to those shown in order to protect wider work spaces.

**TCP (1-2a)**

- R1-2 "YIELD" sign traffic control may be used on projects with approaches that have adequate sight distance. For projects in urban areas, work spaces should be no longer than one half city block. In rural areas on roadways with less than 2000 ADT, work spaces should be no longer than 400 feet.
- R1-2 "YIELD" sign with R1-2aP "TO ONCOMING TRAFFIC" plaque shall be placed on a support at a 7 foot minimum mounting height.

**TCP (1-2b)**

- Flaggers should use two-way radios or other methods of communication to control traffic.
- Length of work space should be based on the ability of flaggers to communicate.
- If the work space is located near a horizontal or vertical curve, the buffer distances should be increased in order to maintain adequate stopping sight distance to the flagger and a queue of stopped vehicles (see table above).
- Channelizing devices on the center-line may be omitted when a pilot car is leading traffic and approved by the Engineer.
- Flaggers should use 24" STOP/SLOW paddles to control traffic. Flags should be limited to emergency situations.

**Texas Department of Transportation**

**TRAFFIC CONTROL PLAN**

**ONE-LANE TWO-WAY TRAFFIC CONTROL**

**TCP (1-2)-18**

APR 05 2000

FILE: TCP1-2-18.dgn

DATE: 12/01/95

DESIGN: 4-90 4-98

CHECK: 2-94 2-12

DATE: 1-97 2-18

SHEET NO. 9 OF 9