



**REVIEW BY FORT BEND COUNTY
COMMISSIONERS COURT**

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

☐

Right of Way Permit

☒

Commercial Driveway Permit

Permit No: 2017-13938

Applicant: Urban Area

Job Location Site: 9303 Highway 6, Missouri City, TX 77459

Bond No. 0208483 **Date of Bond:** 5/19/2017 **Amount:** \$5,000.00

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

Notes:

1. Evidence of review by the Commissioners Court must be kept on the job site and failure to do so constitutes grounds for job shutdown.
2. Written notices are required:
 - a. 48 hours in advance of construction start up, and
 - b. When construction is completed and ready for final inspection, submit notification to Permit Administrator thru MyGovernmentOnline.org portal.
3. This permit expires one (1) year from date of permit if construction has not commenced.

On this 11th day of July, 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.

Signature

Presented to Commissioners Court and approved.

By: Charles O. Ay
for County Engineer

Date Recorded _____ Comm. Court No. _____

N/A

Clerk of Commissioners Court

By: _____
Drainage District Engineer/Manager

By: _____
Deputy



**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

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Commercial Driveway Permit

Permit No: 2017-13938

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

(1) COMPLETE APPLICATION FORM:

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a. Name of road, street, and/or drainage ditch affected.

b. Vicinity map showing course of directions

c. Plans and specifications

(2) BOND:

☐

County Attorney, approval when applicable.

☐

Perpetual bond currently posted.

Bond No:

Amount:

☒

Performance bond submitted.

Bond No: 0208483

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.

Charly O. Ay

Permit Administrator

6/29/17

Date

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

BOND NO 0208483

THE STATE OF TEXAS §

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND §

THAT WE, Sovereign Builders, Inc. dba Construction LTD whose (address, phone) is 1825 Upland Drive, Houston, TX 77043, (832) 203-6819 Texas, hereinafter called the Principal, and Berkley 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) 475 Steamboat Road, Greenwich, CT, 06830, (203) 629-3000 whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is Timothy Miller and whose address is 12400 Coit Road, Suite 625, Dallas, TX 75251, 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 and No/100 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 19th day of May, 2017.

Sovereign Builders, Inc. dba Construction LTD
PRINCIPAL

BY 

Berkley Insurance Company
SURETY

BY 

Gloria M. Villa, Attorney-in-Fact

**POWER OF ATTORNEY
BERKLEY INSURANCE COMPANY
WILMINGTON, DELAWARE**

NOTICE: The warning found elsewhere in this Power of Attorney affects the validity thereof. Please review carefully.

KNOW ALL MEN BY THESE PRESENTS, that BERKLEY INSURANCE COMPANY (the "Company"), a corporation duly organized and existing under the laws of the State of Delaware, having its principal office in Greenwich, CT, has made, constituted and appointed, and does by these presents make, constitute and appoint: *Roxanne G. Brune; David R. Groppe; Beverly A. Ireland; Sharen R. Groppe; Francine M. Hay; Kurt A. Risk; Sharon J. Cavanaugh; Stephanie Sue Kohler; or Gloria M. Villa of Marsh & McLennan Agency LLC – Southwest of Houston, TX* its true and lawful Attorney-in-Fact, to sign its name as surety only as delineated below and to execute, seal, acknowledge and deliver any and all bonds and undertakings, with the exception of Financial Guaranty Insurance, providing that no single obligation shall exceed **Fifty Million and 00/100 U.S. Dollars (U.S.\$50,000,000.00)**, to the same extent as if such bonds had been duly executed and acknowledged by the regularly elected officers of the Company at its principal office in their own proper persons.

This Power of Attorney shall be construed and enforced in accordance with, and governed by, the laws of the State of Delaware, without giving effect to the principles of conflicts of laws thereof. This Power of Attorney is granted pursuant to the following resolutions which were duly and validly adopted at a meeting of the Board of Directors of the Company held on January 25, 2010:

RESOLVED, that, with respect to the Surety business written by Berkley Surety Group, the Chairman of the Board, Chief Executive Officer, President or any Vice President of the Company, in conjunction with the Secretary or any Assistant Secretary are hereby authorized to execute powers of attorney authorizing and qualifying the attorney-in-fact named therein to execute bonds, undertakings, recognizances, or other suretyship obligations on behalf of the Company, and to affix the corporate seal of the Company to powers of attorney executed pursuant hereto; and said officers may remove any such attorney-in-fact and revoke any power of attorney previously granted; and further

RESOLVED, that such power of attorney limits the acts of those named therein to the bonds, undertakings, recognizances, or other suretyship obligations specifically named therein, and they have no authority to bind the Company except in the manner and to the extent therein stated; and further

RESOLVED, that such power of attorney revokes all previous powers issued on behalf of the attorney-in-fact named; and further

RESOLVED, that the signature of any authorized officer and the seal of the Company may be affixed by facsimile to any power of attorney or certification thereof authorizing the execution and delivery of any bond, undertaking, recognizance, or other suretyship obligation of the Company; and such signature and seal when so used shall have the same force and effect as though manually affixed. The Company may continue to use for the purposes herein stated the facsimile signature of any person or persons who shall have been such officer or officers of the Company, notwithstanding the fact that they may have ceased to be such at the time when such instruments shall be issued.

IN WITNESS WHEREOF, the Company has caused these presents to be signed and attested by its appropriate officers and its corporate seal hereunto affixed this 13th day of May, 2016.

Attest:

(Seal)

By

Ira S. Lederman

Senior Vice President & Secretary

Berkley Insurance Company

By

Jeffrey M. Hafter

Senior Vice President

WARNING: THIS POWER INVALID IF NOT PRINTED ON BLUE "BERKLEY" SECURITY PAPER.

STATE OF CONNECTICUT)

) ss:

COUNTY OF FAIRFIELD)

Sworn to before me, a Notary Public in the State of Connecticut, this 13th day of May, 2016, by Ira S. Lederman and Jeffrey M. Hafter who are sworn to me to be the Senior Vice President and Secretary, and the Senior Vice President, respectively, of Berkley Insurance Company.

**MARIA C. RUNDBAKEN
NOTARY PUBLIC
MY COMMISSION EXPIRES
APRIL 30, 2019**

Maria C. Rundbaken
Notary Public, State of Connecticut

CERTIFICATE

I, the undersigned, Assistant Secretary of BERKLEY INSURANCE COMPANY, DO HEREBY CERTIFY that the foregoing is a true, correct and complete copy of the original Power of Attorney; that said Power of Attorney has not been revoked or rescinded and that the authority of the Attorney-in-Fact set forth therein, who executed the bond or undertaking to which this Power of Attorney is attached, is in full force and effect as of this date.

Given under my hand and seal of the Company, this 19th day of May, 2017.

(Seal)

Vincent P. Forte
Vincent P. Forte

IMPORTANT NOTICE

To obtain information or make a complaint:

You may call Berkley Surety Group's toll-free telephone number for information or to make a complaint at:

1-866-245-1973

You may also write to Berkley Surety Group at:

Berkley Surety Group, Inc.
412 Mt. Kemble Avenue
Suite 310N
Morristown, NJ 07960
Attention: Surety Claims Department

OR

E-mail: BSGClaim@wrbsurety.com

You may contact the Texas Department of Insurance to obtain information on companies, coverages, rights or complaints at:

1-800-252-3439

You may write the Texas Department of Insurance:

P.O. Box 149104
Austin, TX 78714-9104
Fax: (512) 475-1771
Web: <http://www.tdi.state.tx.us>
E-mail: ConsumerProtection@tdi.state.tx.us

PREMIUM OR CLAIM DISPUTES:

Should you have a dispute concerning your premium or about a claim you should contact the company. 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.

AVISO IMPORTANTE

Para obtener informacion o para someter una queja:

Usted puede llamar al numero de telefono gratis de Berkley Surety Group's para informacion o para someter una queja al:

1-866-245-1973

Usted tambien puede escribir a Berkley Surety Group:

Berkley Surety Group, Inc.
412 Mt. Kemble Avenue
Suite 310N
Morristown, NJ 07960
Attention: Surety Claims Department

OR

E-mail: BSGClaim@wrbsurety.com

Puede comunicarse con el Departamento de Seguros de Texas para obtener informacion acerca de companias, coberturas, derechos o quejas al:

1-800-252-3439

Puede escribir al Departamento de Seguros de Texas:

P.O. Box 149104
Austin, TX 78714-9104
Fax: (512) 475-1771
Web: <http://www.tdi.state.tx.us>
E-mail: ConsumerProtection@tdi.state.tx.us

DISPUTAS SOBRE PRIMAS O RECLAMOS:

Si tiene una disputa concerniente a su prima o a un reclamo, debe comunicarse con el la compania primero. Si no se resuelve la disputa, puede entonces comunicarse con el departamento (TDI).

UNA ESTE AVISO A SU POLIZA: Este aviso es solo para proposito de informacion y no se convierte en parte o condicion del documento adjunto.

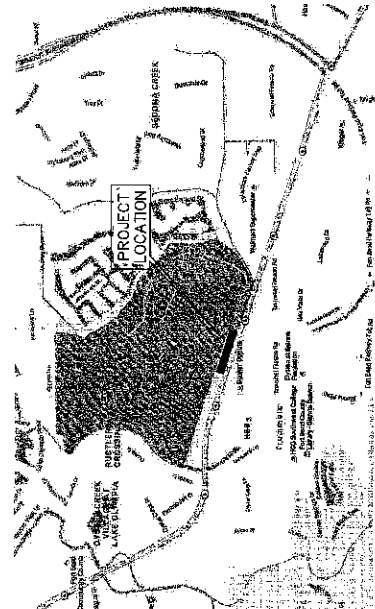
SHOPPES AT SIENNA

9129 & 9303 STATE HIGHWAY 6 AT KITTY HOLLOW PARK DRIVE MISSOURI CITY, FORT BEND COUNTY TEXAS

PRIVATE CONSTRUCTION OF WATER DISTRIBUTION SYSTEM, SANITARY COLLECTION SYSTEM, STORM SEWER DRAINAGE SYSTEM, AND PAVING



LOCATION MAP



VICINITY MAP
N.T.S.

SHEET INDEX

NO.	DESCRIPTION
C1	COVER SHEET
C2	GENERAL CONSTRUCTION NOTES 1 OF 2 (MC-1-16)
C3	GENERAL CONSTRUCTION NOTES 2 OF 2 (MC-2-16)
C4	GENERAL CONSTRUCTION NOTES 3 OF 2 (MC-3-16)
C5	DIMENSION CONTROL & PAVING PLAN 2 OF 2
C6	TRAFFIC CONTROL PLAN - PHASE 1 (AT KITTY HOLLOW PARK DR.)
C7	TRAFFIC CONTROL PLAN - PHASE 2 (AT KITTY HOLLOW PARK DR.)
C8	GRADING PLAN 1 OF 2
C9	GRADING PLAN 2 OF 2
C10	UTILITY PLAN 1 OF 2
C11	UTILITY PLAN 2 OF 2
C12	DRAINAGE AREA MAP AND CALCULATIONS
C13	STORMWATER POLLUTION PREVENTION PLAN DETAILS
C14	CONSTRUCTION DETAILS
C15	WATER LINE CONSTRUCTION DETAILS (MC-15-16)
C16	WATER LINE CONSTRUCTION DETAILS 2 OF 2 (MC-16-16)
C17	WATER LINE CONSTRUCTION DETAILS 3 OF 2 (MC-17-16)
C18	WATER LINE SANITARY SEWER FORCE MAIN BIDDING DETAILS (MC-18-16)
C19	WATER LINE SANITARY SEWER FORCE MAIN BIDDING DETAILS 2 OF 2 (MC-19-16)
C20	STORM SEWER INLET CONSTRUCTION DETAILS - 1 (MC-20-16)
C21	STORM SEWER INLET CONSTRUCTION DETAILS - 2 (MC-21-16)
C22	STORM SEWER INLET CONSTRUCTION DETAILS - 3 (MC-22-16)
C23	STORM SEWER INLET CONSTRUCTION DETAILS - 4 (MC-23-16)
C24	CONCRETE PAVEMENT CONSTRUCTION DETAILS (MC-24-16)

THIS PROJECT IS A PRIVATE DEVELOPMENT. THE DESIGNER HAS BEEN ADVISED BY THE OWNER THAT THE PROJECT IS NOT TO BE USED FOR ANY OTHER PURPOSES. THE DESIGNER HAS BEEN ADVISED BY THE OWNER THAT THE PROJECT IS NOT TO BE USED FOR ANY OTHER PURPOSES. THE DESIGNER HAS BEEN ADVISED BY THE OWNER THAT THE PROJECT IS NOT TO BE USED FOR ANY OTHER PURPOSES.

ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!
(See Statewide Notice to Owners)



Quid Valley Business Park
1396 FM 1074, Suite 303
Missouri City, Texas 77459-1564
Tel: (281) 562-4106

TX FIRM REGISTRATION NO. F-19133



Quid Valley Business Park
1396 FM 1074, Suite 303
Missouri City, Texas 77459-1564
Tel: (281) 562-4106
Mobile: (832) 671-3409

REV/DATE	DESCRIPTION
A 12-08-16	ISSUE FOR PERMIT
A 05-14-17	REVISED FOR CDDT COMMENTS

SHOPPES AT SIENNA
PLANTATION
8129 & 9303 STATE HIGHWAY 6 AT KITTY
HOLLOW PARK DRIVE
MISSOURI CITY, TX 77459



THIS SET OF PLANS AND SPECIFICATIONS IS THE PROPERTY OF THE ENGINEER AND SHALL BE KEPT IN THE OFFICE OF THE ENGINEER. NO PART OF THIS SET OF PLANS AND SPECIFICATIONS SHALL BE REPRODUCED OR COPIED IN ANY MANNER WITHOUT THE WRITTEN PERMISSION OF THE ENGINEER.

SHEET NUMBER

C1

SHEET TITLE

COVER SHEET

DATE

05/17

BY

05/17

FOR PROJECT NUMBER

016-06-003

CONTRACTOR IS RESPONSIBLE FOR HAVING ALL BURIED UTILITIES IDENTIFIED, PROTECTED, REPLACED AND/OR PROPERLY REPAIRED IF DAMAGED. REPAIRS/REPLACEMENT SHALL BE AT CONTRACTOR'S

- [illegible]

1. CONTRACTOR IS RESPONSIBLE FOR OBTAINING ALL PERMITS AND AUTHORIZATION REQUIRED BY CITY OF MESQUITE CITY

- [illegible]

[illegible]

ALL STABILIZED SAND SHALL BE A MINIMUM OF 1 1/2 SK PER IN.

- ALL STANDARDIZED SAMPLES SHALL BE A MINIMUM OF 1 1/2 IN. PER INCH. CLIENT STANDARDIZED SAND (U.S.S.) SHALL ACHIEVE A MINIMUM OF TWO PSI WITHIN 48 HOURS. ONE MINIMUM OF TWO SANDWICH SAMPLES SHALL BE TAKEN EACH WEEK. (FOR SMALLER PROJECTS, ONE MINIMUM OF TWO SANDWICH SAMPLES SHALL BE TAKEN AT EACH CITY APPROVAL). THE CITY OF MISSOURI MAY REQUIRE ADDITIONAL TESTS, AT THE CONTRACTORS EXPENSE. IF IT IS NOT NECESSARY, CITY OF MISSOURI CITY STANDARDS SHALL BE REMOVED AND U.S.S. USED AT THE CONTRACTORS EXPENSE. REMOVED AT THE CONTRACTORS EXPENSE. ALL U.S.S. SHALL BE COMPLETED IN TESTS WHICH ARE SUBMITTED TO MISSOURI FOR A MINIMUM DURATION OF 95%. ALL U.S.S. SHALL BE COMPLETED IN TESTS WHICH ARE SUBMITTED TO MISSOURI FOR A MINIMUM ALLOWED TIME OF 3 HRS. FROM BATCH TIME TO MONITOR BEING INSTALLED.

BANK SAND IS DEFINED AS A WELL-GRADED SAND, FREE OF SALT, CLAY, FRAGILE OR SOLUBLE MATERIALS AND ORGANIC MATTER, MEETING THE UNITED STATES CLASSIFICATIONS SYSTEM GROUP STANDARD SPECIFICATIONS WITH A PLASTICITY INDEX OF LESS THAN 10. 40 MORE THAN 12% OF MATERIAL CAN PASS THE NO. 200 SIEVE.

- [illegible]

NO HOT MIX ASPHALTIC BASE MAY BE INSTALLED UNTIL THE SUBGRADE HAS BEEN PROPERLY PREPARED AND TESTED AS PER THE PLANS AND SPECIFICATIONS. THE SURFGRADE SHALL BE INSPECTED AND APPROVED BY THE CITY OF MISSOURI CITY BEFORE ANY BASE MATERIALS ARE INSTALLED.

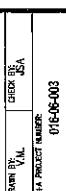
- NOT HOT ASPHALTIC BASE MAY BE USED UNTIL THE SURFACING HAS BEEN PROBABLY PREPARED AND TESTED AS FOR THE PLANS AND SPECIFICATIONS. THE SURFACING SHALL BE UNIFORM AND APPROVED BY THE CITY OF MISSOURI CITY BEFORE ANY BASE MATERIALS ARE PLACED.
- NOT HOT ASPHALTIC BASE MATERIALS, HOOKERS, AND INSTALLATION SHALL COMPLY WITH TEST STANDARDS FOR CONSTRUCTION OF HIGHWAYS, STREETS, AND DRIVES 1975 (SECTION 02711) AND ITS LATEST REVISIONS.
- WHEN PLACED, THE MATERIALS SHALL BE SET AT TEMPERATURES BETWEEN 250°F AND 375°F.
- MATERIALS MAY NOT BE PLACED IN WET CONDITIONS OR IF THE AMBIENT TEMPERATURE IS BELOW 40°F. MATERIALS SHALL BE INSTALLED IF THE AMBIENT TEMPERATURE IS AT LEAST 40°F AND THE SURFACE TEMPERATURE IS AT LEAST 40°F. MATERIALS SHALL BE PLACED IN THE SHADE AND NOT IN THE SUN.
- PLACE BASE COMPOSES A MINUTE OR GREATER IN THICKNESS IN TWO OR MORE LAYERS. EACH LAYER SHALL BE PLACED AND COMPACTED TO THE SPECIFIED THICKNESS BY MEANS OF A POWERED ROLLER. THE ROLLER SHALL BE A SINGLE DRUM ROLLER WITH A MINIMUM OF 10,000 LBS. OF WEIGHT. SAW CUTTING.
- BASE MATERIAL MAY ONLY BE PLACED AGAINST CLEAN, UNSET, UNPAVED MATERIAL.
- COMPACTOR SHALL BE USED UNTIL MATERIAL IS SET AND AS SOON AS IT WILL BEAR THE WEIGHT OF A 10,000 LB. ROLLER. THE ROLLER SHALL BE A SINGLE DRUM ROLLER. THE COMPACT SURFACE UNLESS WHILE MATERIAL IS SETTING OR IMPROVING IS LOCATIONS NOT READILY ACCESSIBLE (E.G. ALONG CURBS, WALLS ETC.).
- POSSIBLE DENSITY, SPECIFIED, COMPACT DENSITY TO NOT LESS THAN 95% OF MAXIMUM POSSIBLE DENSITY.
- A GROUND-UP SHALL BE ON SITE AT ALL TIMES TO TEST AND PROPERLY DOCUMENT THE CONSTRUCTION METHODS AND QUALITY OF MATERIALS.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PLACEMENT, INSTALLATION AND CITY OF MISSOURI CITY REQUIREMENTS. FAILURE TO COMPLY WILL RESULT IN REJECTION OF SAND MATERIALS AND SUCH SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PLACEMENT, INSTALLATION AND IS COUNSEL OF SURVEYING VEHICLES WITHOUT DAMAGE OR DEGRADATION.
- MINUTES SHALL BE TAKEN AT A MINIMUM OF AT LEAST ONE PER 500 LF OF SURFACING. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROPER PLACEMENT, INSTALLATION AND CITY OF MISSOURI CITY REQUIREMENTS. FAILURE TO COMPLY WILL RESULT IN REJECTION OF SAND MATERIALS AND SUCH SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- REQUIREMENTS SHALL RESULT IN THE REJECTION OF SAND MATERIAL AT CONTRACTOR'S

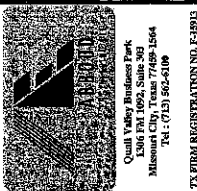
[illegible][illegible][illegible][illegible]

2

JOB NO.: MC-1-15

SOURCE: _____

[illegible]



Quail Valley Business Park
1306 FM 1069, Suite 303
Missouri City, Texas 77459-1564
Tel: (281) 361-4106

TX PERM REGISTRATION NO. F-18113



10034 Producers Plaza Ct.
Houston, Texas 77063
Tel: (281) 281-5624
Mobile: (832) 671-5499

REV	DATE	DESCRIPTION
1	12-05-16	ISSUE FOR PERMIT
2	03-01-17	REVISED PER COUNTY COMMENTS

SHOPPES AT SIENNA
PLANTATION
9129 & 9303 STATE HIGHWAY 6 AT KITTY
HOLLOW PARK DRIVE
MISSOURI CITY, TX 77459



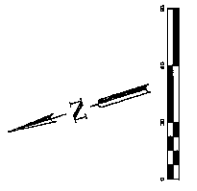
THE USE OF THIS PLAN AND SEAL IS LIMITED TO THE PROJECT AND SITE SPECIFICALLY IDENTIFIED ON THE PERMITS. ANY OTHER USE OF THIS PLAN OR SEAL WITHOUT THE WRITTEN CONSENT OF THE ENGINEER IS PROHIBITED.

SHEET NUMBER
C5.1

SHEET TITLE
TOP - PHASE 1
AT KITTY HOLLOW
PARK DR.

DESIGN BY
CHECK BY
DATE
12/11/17

PROJECT NUMBER
016-95-003



TRAFFIC CONTROL PLAN - PHASE 1
1. CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
2. NO LANE SHALL BE CLOSED FROM 7 A.M. TO 4 P.M. AND 4 P.M. TO 6:00 P.M. DURING THE PERIOD OF CONSTRUCTION.
3. APPROVED COPIES OF TRAFFIC CONTROL PLANS SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
4. CONTRACTOR SHALL COVER THE EXCAVATION WITH STEEL PLATES ANCHORED PROPERLY TO THE EXCAVATION WALLS AND ALLOW NORMAL TRAFFIC FLOW. IF COVERS ARE NOT AVAILABLE, CONTRACTOR SHALL SUBMIT ALTERNATE PLANS TO THE ENGINEER FOR APPROVAL. APPROVED COPIES OF TRAFFIC CONTROL PLANS SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
5. APPROVED COPIES OF TRAFFIC CONTROL PLANS SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
6. IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF TRAFFIC CONTROL PLAN THAN THAT SHOWN ON THIS PLAN, THE CONTRACTOR SHALL SUBMIT ALTERNATE PLANS TO THE ENGINEER FOR APPROVAL. APPROVED COPIES OF TRAFFIC CONTROL PLANS SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
7. THESE PLANS SHALL BE DRAWN TO SCALE ON RETROREFLECTIVE MYLARS AND SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS. PLANS WILL BECOME A PART OF THE CONTRACT DOCUMENTS.
8. IF THE PROJECT IS WITHIN 400 FEET FROM A SIGNALIZED INTERSECTION, THE CONTRACTOR SHALL SUBMIT ALTERNATE PLANS TO THE ENGINEER FOR APPROVAL. APPROVED COPIES OF TRAFFIC CONTROL PLANS SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
9. WORKING DATES PRIOR TO THE START OF CONSTRUCTION.

TRAFFIC CONTROL PLAN - PHASE 1
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9. WORKING DATES PRIOR TO THE START OF CONSTRUCTION.

SURVEY SYMBOLS:

- 1. ELECTRIC BOX
- 2. FLUID VALVE
- 3. GATE VALVE
- 4. GATE VALVE
- 5. GATE VALVE
- 6. GATE VALVE
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LEGEND:

INDICATOR OF BAY

TRAFFIC NOTES

- CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).
- NO LANE SHALL BE CLOSED FROM 7 A.M. TO 4 P.M. AND 4 P.M. TO 6:00 P.M. DURING THE PERIOD OF CONSTRUCTION.
- APPROVED COPIES OF TRAFFIC CONTROL PLANS SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
- CONTRACTOR SHALL COVER THE EXCAVATION WITH STEEL PLATES ANCHORED PROPERLY TO THE EXCAVATION WALLS AND ALLOW NORMAL TRAFFIC FLOW. IF COVERS ARE NOT AVAILABLE, CONTRACTOR SHALL SUBMIT ALTERNATE PLANS TO THE ENGINEER FOR APPROVAL. APPROVED COPIES OF TRAFFIC CONTROL PLANS SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
- APPROVED COPIES OF TRAFFIC CONTROL PLANS SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
- IF THE CONTRACTOR CHOOSES TO USE A DIFFERENT METHOD OF TRAFFIC CONTROL PLAN THAN THAT SHOWN ON THIS PLAN, THE CONTRACTOR SHALL SUBMIT ALTERNATE PLANS TO THE ENGINEER FOR APPROVAL. APPROVED COPIES OF TRAFFIC CONTROL PLANS SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
- THESE PLANS SHALL BE DRAWN TO SCALE ON RETROREFLECTIVE MYLARS AND SEALED BY A LICENSED ENGINEER IN THE STATE OF TEXAS. PLANS WILL BECOME A PART OF THE CONTRACT DOCUMENTS.
- IF THE PROJECT IS WITHIN 400 FEET FROM A SIGNALIZED INTERSECTION, THE CONTRACTOR SHALL SUBMIT ALTERNATE PLANS TO THE ENGINEER FOR APPROVAL. APPROVED COPIES OF TRAFFIC CONTROL PLANS SHALL BE AVAILABLE FOR INSPECTION AT ALL TIMES.
- WORKING DATES PRIOR TO THE START OF CONSTRUCTION.

NOTE: CONTRACTOR SHALL PROVIDE AND INSTALL TRAFFIC CONTROL DEVICES IN CONFORMANCE WITH THE TEXAS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (MUTCD).

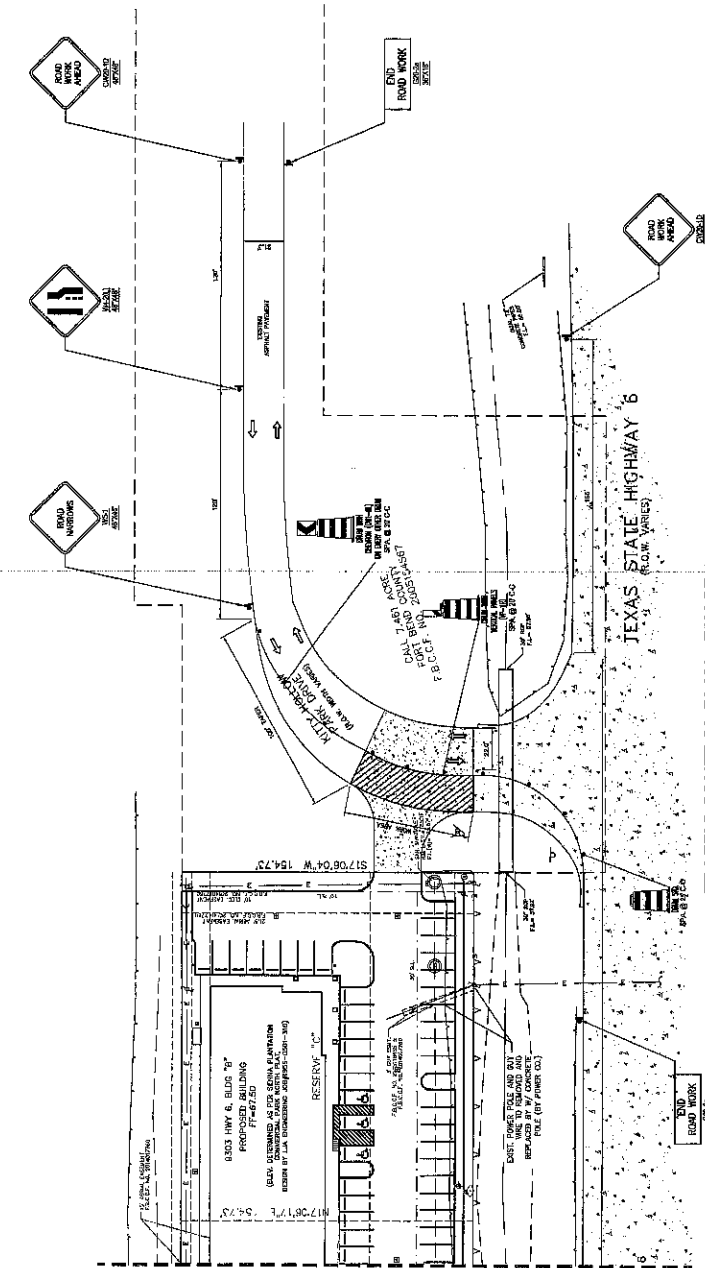
LEGEND
PLASTIC DRUM (see Section 10-1.01)
OFF-DUTY UNIFORMED POLICE OFFICER
TYPE III BARRICADE
FLASHING ARROW PANEL
TUBULAR MARKER
CONSTRUCTION AREA

TYPICAL TRANSITION LENGTHS			
Minimum Desirable	Suggested Maximum Spacing of Devices		
	10' Off	12' On	15' On
30	150'	180'	30'
40	205'	245'	35'
45	285'	325'	40'
50	460'	485'	45'
55	505'	560'	50'
60	555'	605'	55'
65	605'	660'	60'
70	655'	715'	65'
75	705'	765'	70'

* 85th Percentile Speed may be used on roads where traffic speeds normally exceed the posted speed limit.
** Taper lengths have been rounded off.

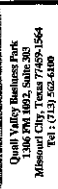
KITTY HOLLOW PARK RD. 20 MPH
SPEED LIMIT

STREET NAME



TRAFFIC CONTROL PLAN - PHASE 1

SCALE 1" = 30'-0"



FTX FIRM REGISTRATION NO. F-15913



16935 Beckwith Oaks Ct.
Houston, Texas 77083
Tel: (281) 201-8624
Mobile: (832) 671-3409

REV/DATE	DESCRIPTION
12-28-16	ISSUE FOR PERMIT
03-04-17	REMOVED PER COUNTY COMMENTS

**SHOPPES AT SIENNA
PLANTATION**
9129 & 9303 STATE HIGHWAY 6 AT KITTY
HOLLOW PARK DRIVE
MISSOURI CITY, TX 77459

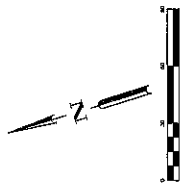


THE USE OF FINAL, SHOWN AND SEAL DRAWINGS IS AUTHORIZED AND GRANTED SOLELY FOR THE PURPOSES OF THIS SPECIFIC PROJECT AND LOCATION, AND NOT FOR CONSTRUCTION OR USE FOR ANY OTHER PROJECT.

SHEET NUMBER: C8

SHEET TITLE
GRADING PLAN
2 OF 2

PROGRAM BY: V.M.	CHECK BY JSA
G-4 PROJECT NUMBER	



PROPERTY DESCRIPTION:
BEING A CALL 3.65 ACRES TRACT OF LAND RECORDED AS SERVA
PUNATION COMMERCIAL PARK NORTH SECTION 2A, PHASE TWO,
UNDER PLAT NO. 20080561 B.L.P.R. LOCATED IN THE EL PASO
COUNTY, TEXAS, A77 FORT BEND COUNTY, TEXAS

FEMA NOTE:
ACCORDING TO FEMA FLOOD INSURANCE RATE MAP (FIRM) NO. 48190SW01, MAP REVISED APRIL 2, 2014, THE SURVEYED TRACT LESS IN ZONE "C" UNINSURED, DEFINED BY FEMA AS AREAS DETERMINED TO BE OUTSIDE THE 0.2% ANNUAL CHANCE FLOODPLAIN.

WARNING: MARK NOTE!
BENCHMARK 1: CITY OF MISSOURI CITY PGM-003

OPASS DISK SET IN CONCRETE AT THE SOUTHWESTERN CORNER OF THE INTERSECTION OF SIENNA PARKWAY AND TRAMMEL-FRESNO ROAD APPROXIMATELY 20 FEET WEST OF A STORMS DRAIN ON THE WEST SIDE OF SIENNA PARKWAY.

BENCHMARK 2: SENNA PARKWAY AT HIGHWAY 6 MONUMENT
- BRASS DISK SET ON THE FIRST INLET SOUTH OF STATE HIGHWAY 6
ON THE WEST SIDE OF SENNA PARKWAY
ELEVATION = 65.31 (NAD 83, 2001 ADJ.)

TEMPORARY BENCHMARK (TBM):
BOX CUT IN THE SOUTHEAST CORNER OF A CONCRETE SIDEWALK
WHICH LIES ON THE WEST LINE OF THE SUBURB TRACT.
ELEVATION = 66.32

SURVEY SYMBOLS:

[illegible]

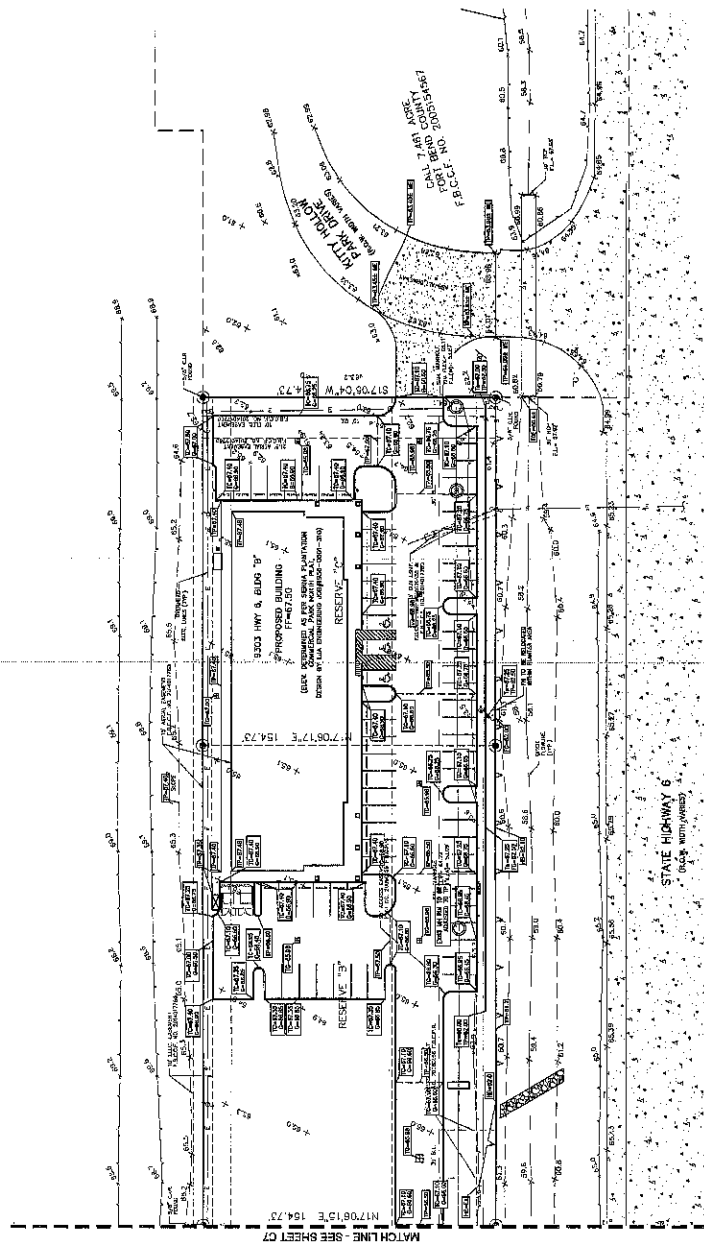
PROPOSED LEGEND:

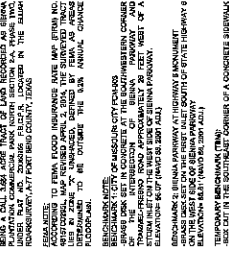
FINISH FLOOR	FINISH GRADE	GUTTER	HIGH BANK	TOP OF CURB	TOP OF PAVEMENT	TOP OF WALL	WATCH EXISTING	EXISTING GRADE
--------------	--------------	--------	-----------	-------------	-----------------	-------------	----------------	----------------

**ONE-CALL NOTIFICATION SYSTEM
CALL BEFORE YOU DIG!!!**
(713) 223-4547 (In Houston)
(New Statewide Number Outside Houston)
1-800-645-5200

NOTE: ALL BACKFILL FOR TRENCHES AND STRUCTURES SHALL BE COMPACTED TO A MINIMUM OF 95% OF STANDARD PROCTOR DENSITY

THE CONTRACTOR SHALL FIELD VERIFY THE HORIZONTAL AND VERTICAL LOCATIONS OF ALL EXISTING PUBLIC AND PRIVATE UTILITIES, AND PROVIDE INFORMATION AS TO THE DEPTHS OF ANY CONCEALED UTILITIES. THE LAYING OF ALL GUTTER OR FLOW PIPES SHALL BE ON THE GUTTER OR CONNECTION TO THE EXISTING SYSTEM AND PROCEED UPSTREAM. IF ANY DISCREPANCY FROM THE PLANS IS FOUND, THE CONTRACTOR IS TO NOTIFY ARMBURG ENGINEERING, LLC BEFORE PROCEEDING FURTHER.

STATE HIGHWAY 6
OR.O.W. WIDTH VARIETY



Quali Valley Builders Park
1306 DM 1092, Suite 303
Missouri City, Texas 77059-1544
Tel: (713) 582-0090

TX FIRM REGISTRATION NO. F-15913

SHOPPES AT SIENNA
PLANTATION

9129 & 9303 STATE HIGHWAY 6 AT KITTY
HOLLOW PARK DRIVE
MISSOURI CITY, TX 77459

PROJECT NAME: SHOPPES AT SIENNA

DATE: 04-28-2015

DESIGNER: L&L Engineering, Inc.

PROJECT NUMBER: 016-06-003

REVISIONS:

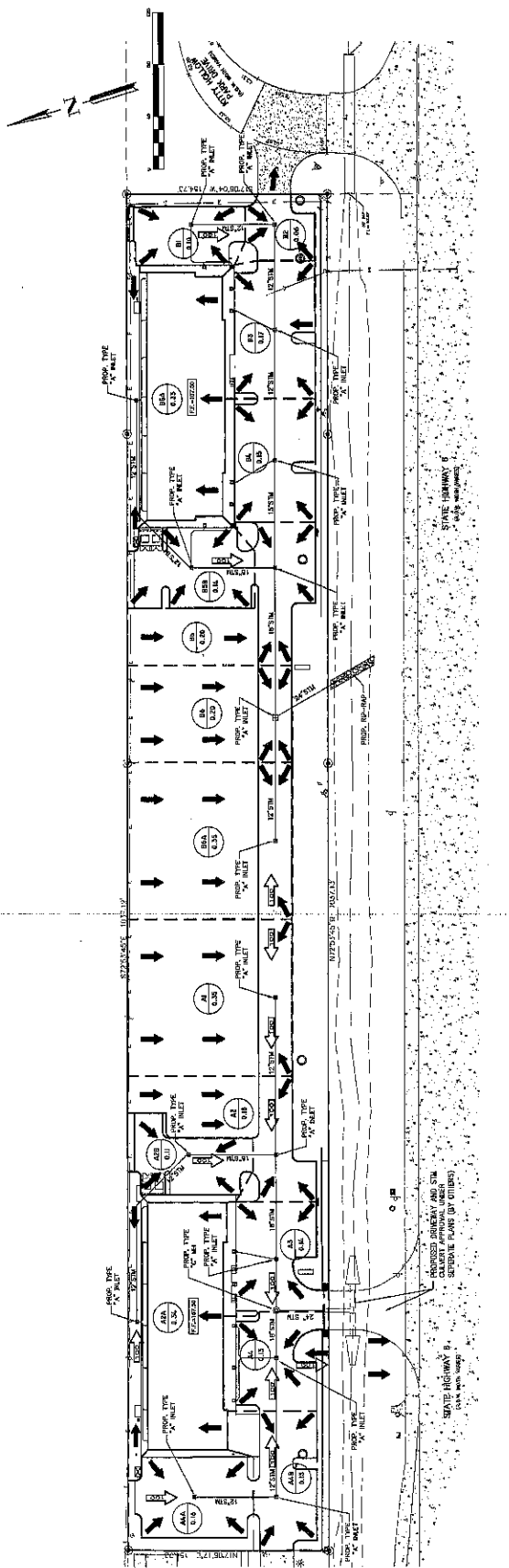
NO.	DATE	DESCRIPTION
1	04-28-15	ISSUE FOR PERMIT
2	05-04-17	REVISED PER COUNTY COMMENTS

DESIGNER: L&L Engineering, Inc.
16035 Redcliffe Oaks Ct.
Houston, Texas 77063
Tel: (281) 291-5624
Mobile: (832) 671-3469

PROJECT NUMBER: 016-06-003

DATE: 04-28-2015

DESIGNER: L&L Engineering, Inc.



PROPOSED DRAINAGE

SHENNA PLANTATION

9129 & 9303 STATE HIGHWAY 6 AT KITTY HOLLOW PARK DRIVE

MISSOURI CITY, TX 77459

DATE: 04-28-2015

DESIGNER: L&L Engineering, Inc.

PROJECT NUMBER: 016-06-003

LEGEND :

100 YR. SHEET FLOW

2 YR. SHEET FLOW

PROPOSED DRAINAGE

AREA (AC)

AREA (AC)

Area	Area (Ac)	Flow (cfs)	Velocity (ft/s)	Depth (ft)	Length (ft)	Time (min)	Volume (cu ft)	Design Velocity (ft/s)	Design Depth (ft)	Design Length (ft)	Design Volume (cu ft)
A1	0.15	0.05	0.05	0.05	100	1	0.05	0.05	0.05	100	0.05
A2	0.15	0.05	0.05	0.05	100	1	0.05	0.05	0.05	100	0.05
A3	0.15	0.05	0.05	0.05	100	1	0.05	0.05	0.05	100	0.05
A4	0.15	0.05	0.05	0.05	100	1	0.05	0.05	0.05	100	0.05
A5	0.15	0.05	0.05	0.05	100	1	0.05	0.05	0.05	100	0.05
A6	0.15	0.05	0.05	0.05	100	1	0.05	0.05	0.05	100	0.05
A7	0.15	0.05	0.05	0.05	100	1	0.05	0.05	0.05	100	0.05
A8	0.15	0.05	0.05	0.05	100	1	0.05	0.05	0.05	100	0.05
A9	0.15	0.05	0.05	0.05	100	1	0.05	0.05	0.05	100	0.05
A10	0.15	0.05	0.05	0.05	100	1	0.05	0.05	0.05	100	0.05

PROPOSED DRAINAGE

SHENNA PLANTATION

9129 & 9303 STATE HIGHWAY 6 AT KITTY HOLLOW PARK DRIVE

MISSOURI CITY, TX 77459

DATE: 04-28-2015

DESIGNER: L&L Engineering, Inc.

PROJECT NUMBER: 016-06-003

The purpose of this report is to provide a detailed description of the proposed drainage system for the Shoppes at Sienna project. The system is designed to collect and convey stormwater from the project area to a nearby water body. The system consists of several detention basins (A1-A10) and a final outfall into a nearby water body. The system is designed to handle a 100-year flood event. The system is designed to be constructed in accordance with the Texas Department of Transportation (TxDOT) standards. The system is designed to be constructed in accordance with the Texas Department of Transportation (TxDOT) standards. The system is designed to be constructed in accordance with the Texas Department of Transportation (TxDOT) standards.

PROPOSED DRAINAGE

SHENNA PLANTATION

9129 & 9303 STATE HIGHWAY 6 AT KITTY HOLLOW PARK DRIVE

MISSOURI CITY, TX 77459

DATE: 04-28-2015

DESIGNER: L&L Engineering, Inc.

PROJECT NUMBER: 016-06-003

LEGEND :

100 YR. SHEET FLOW

2 YR. SHEET FLOW

PROPOSED DRAINAGE

AREA (AC)

AREA (AC)

PROPOSED DRAINAGE

SHENNA PLANTATION

9129 & 9303 STATE HIGHWAY 6 AT KITTY HOLLOW PARK DRIVE

MISSOURI CITY, TX 77459

DATE: 04-28-2015

DESIGNER: L&L Engineering, Inc.

PROJECT NUMBER: 016-06-003

REVISIONS:

NO.	DATE	DESCRIPTION
1	04-28-15	ISSUE FOR PERMIT
2	05-04-17	REVISED PER COUNTY COMMENTS

DESIGNER: L&L Engineering, Inc.
16035 Redcliffe Oaks Ct.
Houston, Texas 77063
Tel: (281) 291-5624
Mobile: (832) 671-3469

PROJECT NUMBER: 016-06-003

DATE: 04-28-2015

DESIGNER: L&L Engineering, Inc.

Qauli Valley Business Park
 1306 FM 1097, Suite 303
 Missouri City, Texas 77459-1564
 Tel: (713) 562-6800

TX PERM REGISTRATION NO. F-15943

Qauli Valley Business Park
 1306 FM 1097, Suite 303
 Missouri City, Texas 77459-1564
 Tel: (713) 562-6800

TX PERM REGISTRATION NO. F-15943

REV/DATE	DESCRIPTION
12-06-16	ISSUE FOR PERMIT
06-04-17	REVISED PER COUNTY COMMENTS

SHoppes AT SIENNA
PLANTATION
 9129 & 9303 STATE HIGHWAY 6 AT KITTY
 HOLLOW PARK DRIVE
 MISSOURI CITY, TX 77459

PROJECT NAME



THE USE OF PERM GRANTED FOR THIS PROJECT IS LIMITED TO THE SPECIFIC PROJECT AND THE LOCATION OF THE PROJECT. ANY OTHER USE OF THE PERM IS VOID.

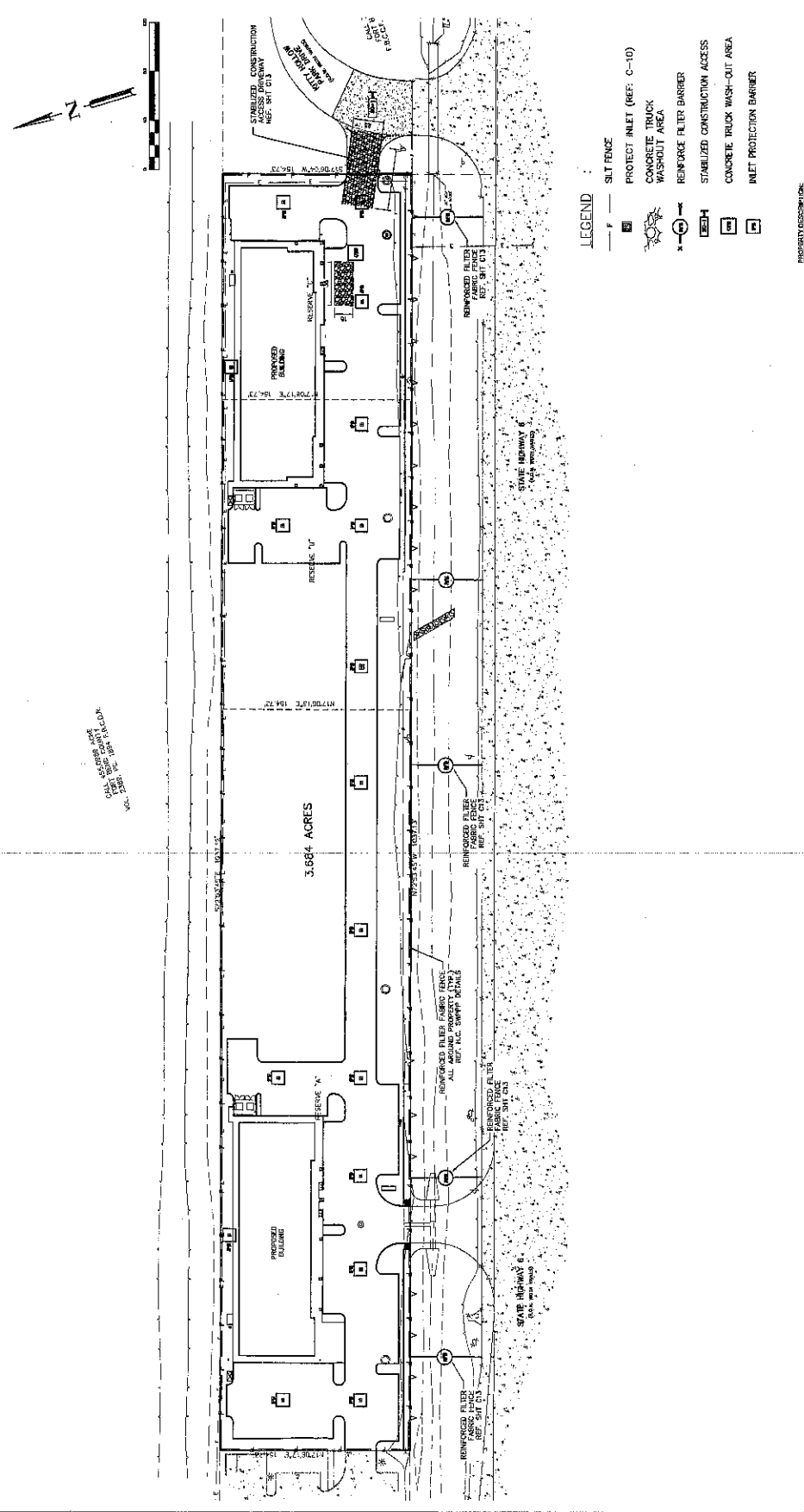
STORM WATER POLLUTION PREVENTION PLAN

C12

SHEET NUMBER

DRAWN BY: **Y.M.**
 CHECKED BY: **Y.M.**
 DATE: **01-05-2023**

PROJECT NUMBER: **016-05-003**



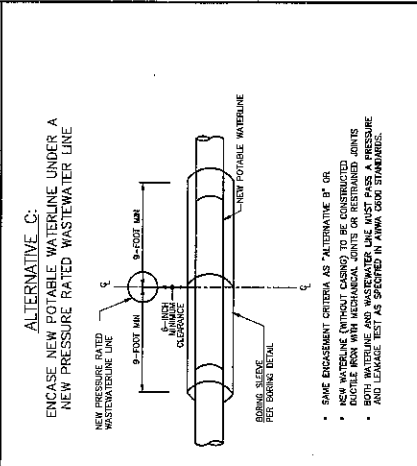
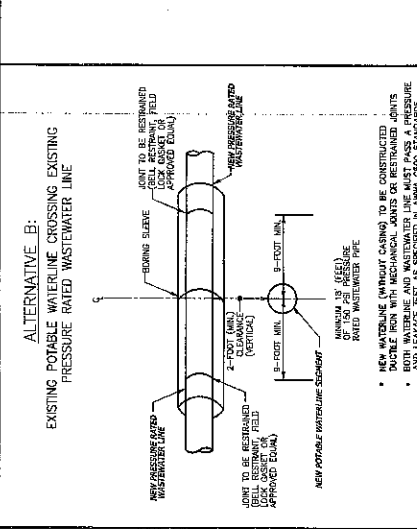
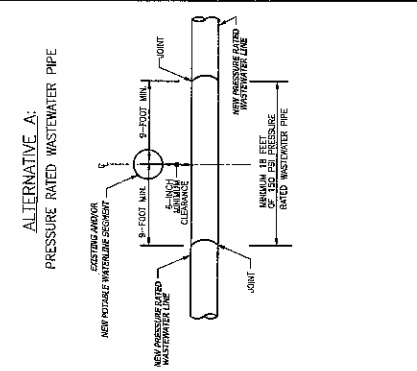
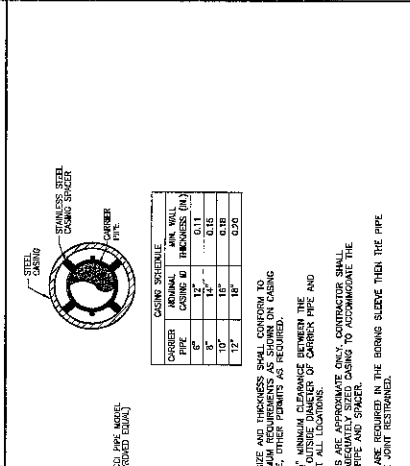
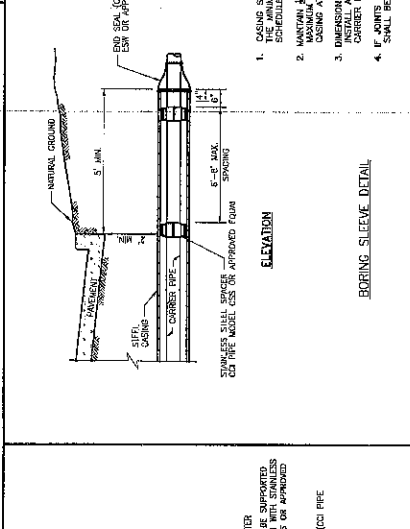
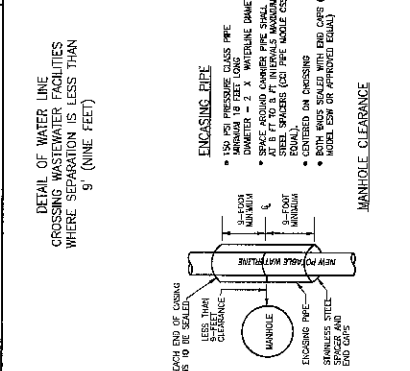
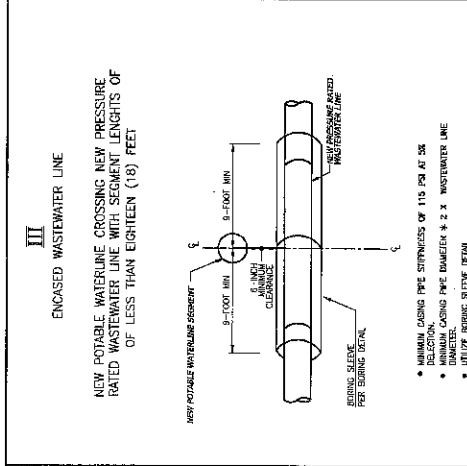
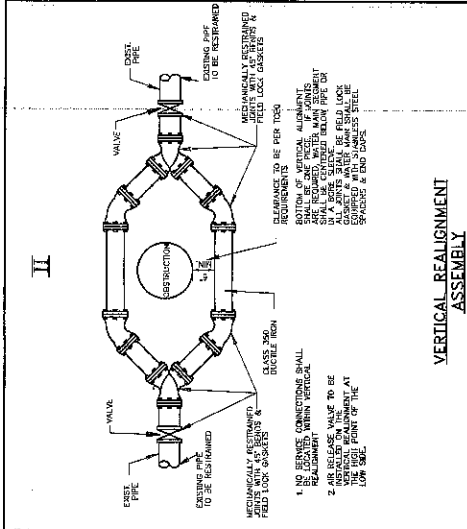
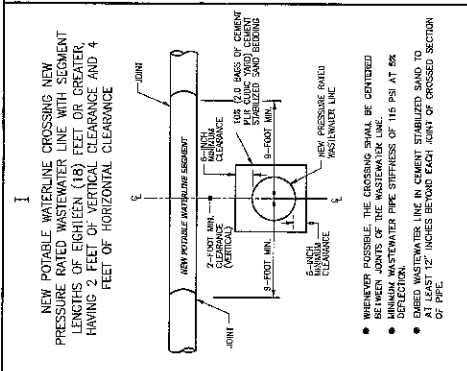
PROPERTY DESCRIPTION: THE PROJECT IS A 3.684-ACRE PARCEL LOCATED IN THE BLUEN HILLS SUBDIVISION, MISSOURI CITY, TEXAS. THE PARCEL IS BOUNDED BY STATE HIGHWAY 6 TO THE NORTH, KITTY HOLLOW PARK DRIVE TO THE EAST, AND FM 1097 TO THE WEST. THE PARCEL IS CURRENTLY UNDEVELOPED.

PERMITS: THE PROJECT IS SUBJECT TO THE FOLLOWING PERMITS:

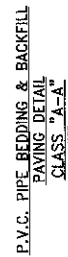
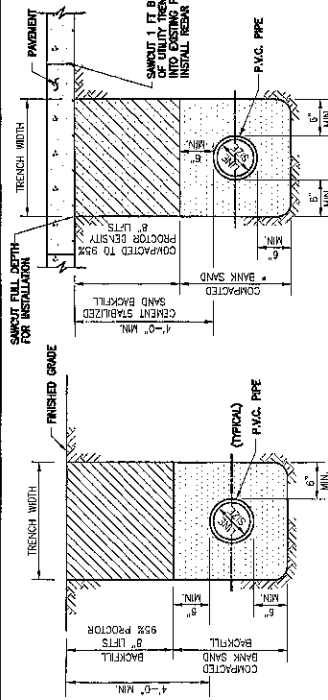
- STATE HIGHWAY 6:** THE PROJECT IS SUBJECT TO THE STATE HIGHWAY 6 PERMIT.
- FM 1097:** THE PROJECT IS SUBJECT TO THE FM 1097 PERMIT.

DESIGNER'S NOTE: THE PROJECT IS SUBJECT TO THE FOLLOWING DESIGNER'S NOTES:

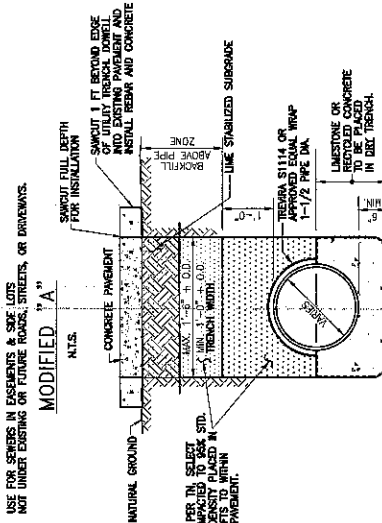
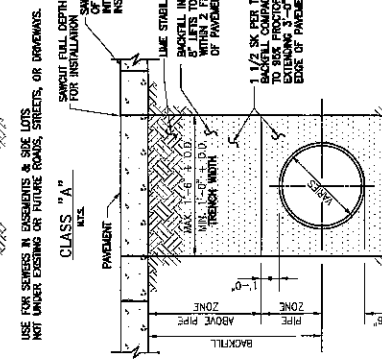
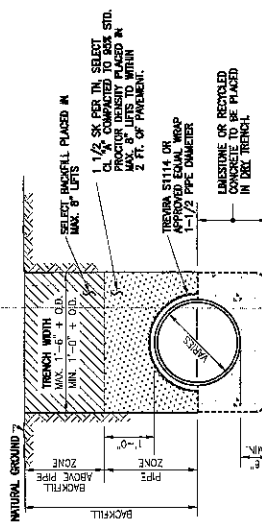
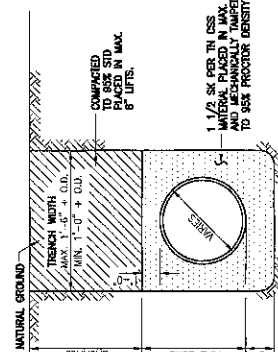
- STORM WATER POLLUTION PREVENTION PLAN:** THE PROJECT IS SUBJECT TO THE STORM WATER POLLUTION PREVENTION PLAN.
- SOIL EROSION CONTROL:** THE PROJECT IS SUBJECT TO THE SOIL EROSION CONTROL PLAN.
- WATER QUALITY:** THE PROJECT IS SUBJECT TO THE WATER QUALITY PLAN.
- WETLANDS:** THE PROJECT IS SUBJECT TO THE WETLANDS PLAN.
- WILDLIFE:** THE PROJECT IS SUBJECT TO THE WILDLIFE PLAN.
- ARCHAEOLOGY:** THE PROJECT IS SUBJECT TO THE ARCHAEOLOGY PLAN.
- TRANSPORTATION:** THE PROJECT IS SUBJECT TO THE TRANSPORTATION PLAN.
- ENVIRONMENTAL:** THE PROJECT IS SUBJECT TO THE ENVIRONMENTAL PLAN.
- PLANNING:** THE PROJECT IS SUBJECT TO THE PLANNING PLAN.
- ENGINEERING:** THE PROJECT IS SUBJECT TO THE ENGINEERING PLAN.
- CONSTRUCTION:** THE PROJECT IS SUBJECT TO THE CONSTRUCTION PLAN.
- OPERATION:** THE PROJECT IS SUBJECT TO THE OPERATION PLAN.
- MAINTENANCE:** THE PROJECT IS SUBJECT TO THE MAINTENANCE PLAN.
- DEMOLITION:** THE PROJECT IS SUBJECT TO THE DEMOLITION PLAN.
- RECONSTRUCTION:** THE PROJECT IS SUBJECT TO THE RECONSTRUCTION PLAN.
- REPAIR:** THE PROJECT IS SUBJECT TO THE REPAIR PLAN.
- REPLACEMENT:** THE PROJECT IS SUBJECT TO THE REPLACEMENT PLAN.
- RENOVATION:** THE PROJECT IS SUBJECT TO THE RENOVATION PLAN.
- RESTORATION:** THE PROJECT IS SUBJECT TO THE RESTORATION PLAN.
- REUSE:** THE PROJECT IS SUBJECT TO THE REUSE PLAN.
- RECYCLING:** THE PROJECT IS SUBJECT TO THE RECYCLING PLAN.
- REPAIR:** THE PROJECT IS SUBJECT TO THE REPAIR PLAN.
- REPLACEMENT:** THE PROJECT IS SUBJECT TO THE REPLACEMENT PLAN.
- RENOVATION:** THE PROJECT IS SUBJECT TO THE RENOVATION PLAN.
- RESTORATION:** THE PROJECT IS SUBJECT TO THE RESTORATION PLAN.
- REUSE:** THE PROJECT IS SUBJECT TO THE REUSE PLAN.
- RECYCLING:** THE PROJECT IS SUBJECT TO THE RECYCLING PLAN.



GENERAL NOTES
1. CONTRACTOR TO VERIFY ALL DIMENSIONS.
2. SLOPE TO DRAIN TO EXISTING DRAINAGE.
3. FINISH TO BE AS SHOWN ON DRAWING.
4. ALL NEW WORK TO BE DONE TO THE STANDARD OF THE INDUSTRY.
5. ALL NEW WORK TO BE DONE TO THE STANDARD OF THE INDUSTRY.
6. WHERE REQUIRED, THE CONTRACTOR SHALL PROVIDE A MINIMUM OF 10% FREE DRAINAGE.
7. ALL NEW WORK TO BE DONE TO THE STANDARD OF THE INDUSTRY.
8. ALL NEW WORK TO BE DONE TO THE STANDARD OF THE INDUSTRY.
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15. ALL NEW WORK TO BE DONE TO THE STANDARD OF THE INDUSTRY.



* SEE C.S.S. AND BANK SAND NOTES



USE FOR SEWERS UNDER EXISTING OR FUTURE ROADS
STREETS OR DRIVEWAYS.

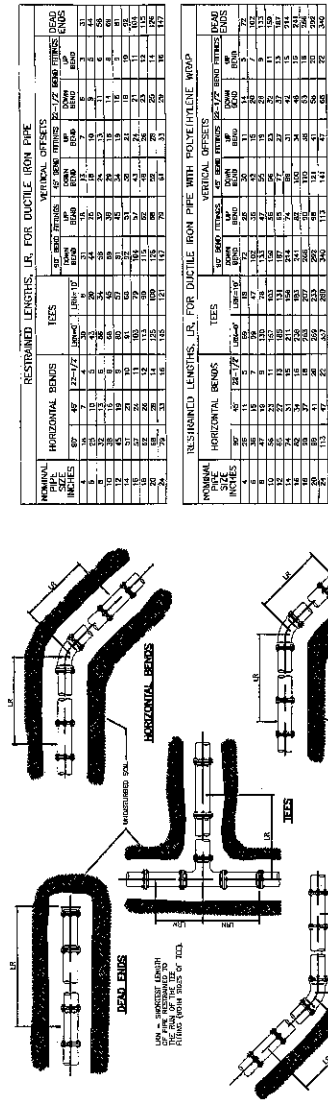
USE FOR SEWERS UNDER EXISTING OR FUTURE ROADS
STREETS OR DRIVEWAYS.

CLASS "A" - A
N75

N.T.S.

REFER TO:

SANITARY SEWER
BEDDING AND BACKFILL



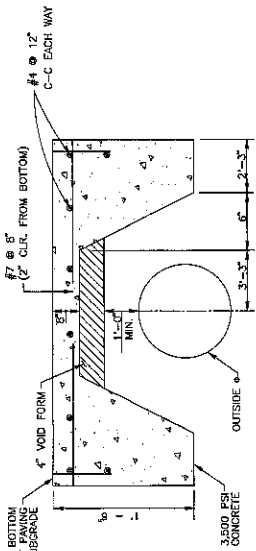
NOTES:

1. ALL JOINTS WITHIN THE SPECIFIED LENGTH IN MUST BE REINFORCED. LONGER ARE GIVEN IN TEST.
2. THE MAXIMUM TEST PRESSURE SHALL NOT EXCEED 200 PSI
3. REINFORCED LENGTHS MUST BE IDENTICAL WHEN SUPPORTED BY ENGINEERING CALCULATIONS.
4. FOR PAC WATER LINES USE THE DIF WITH PERCENTAGE INWAP 70%.

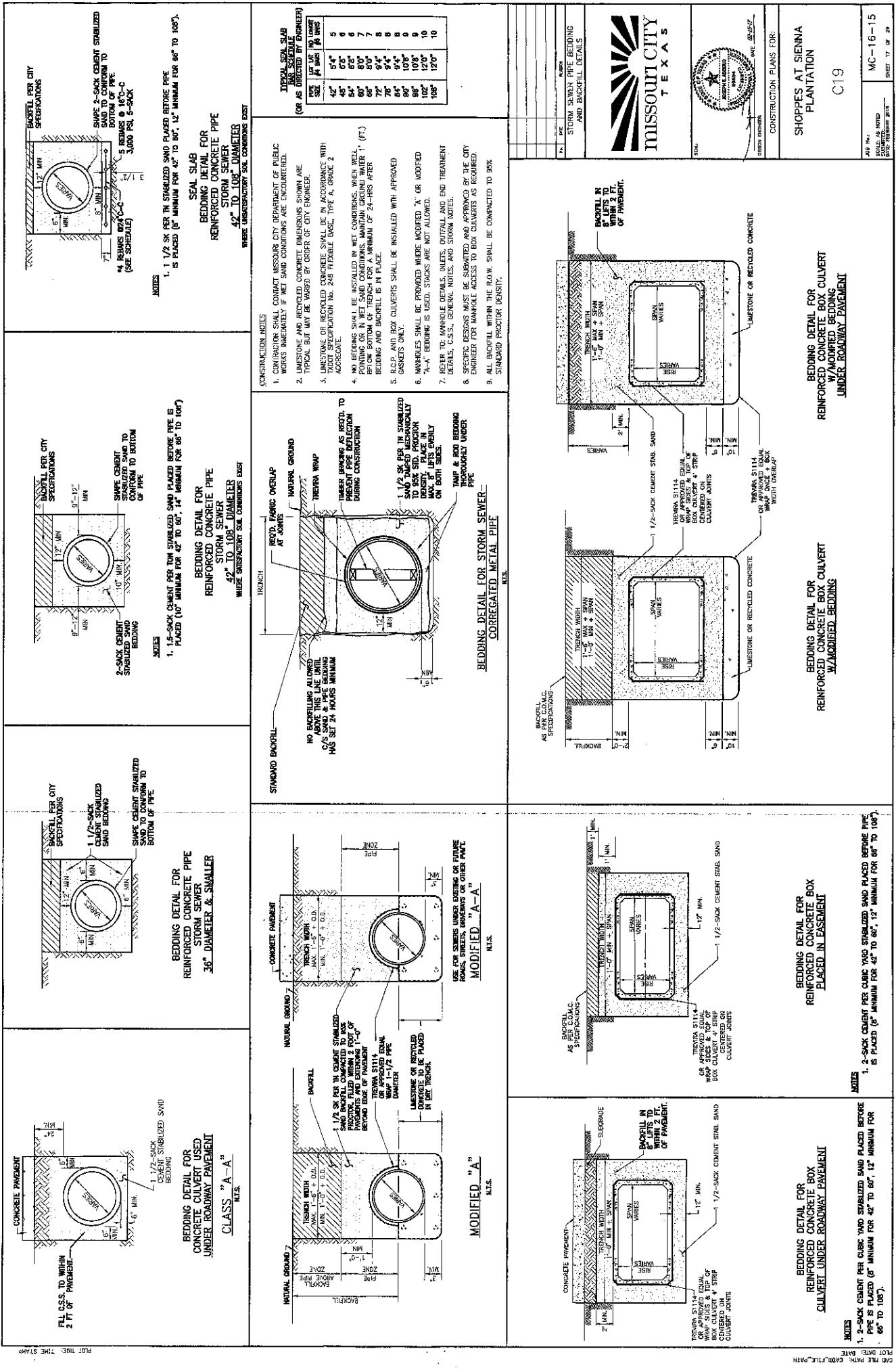
JOINT RESTRAINT FOR DUCTILE IRON PIPE AND POLYETHYLENE WRAPPED DUCTILE IRON WATER PIPES

CONSTRUCTION NOTES

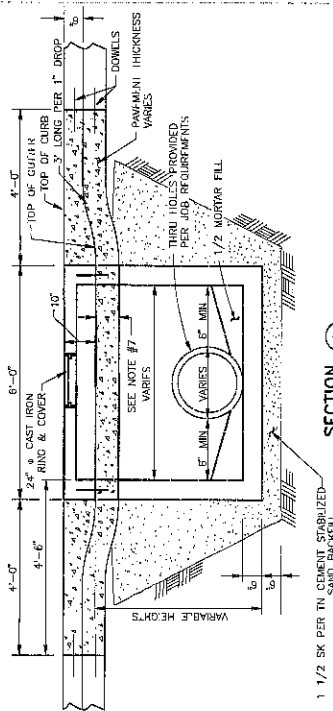
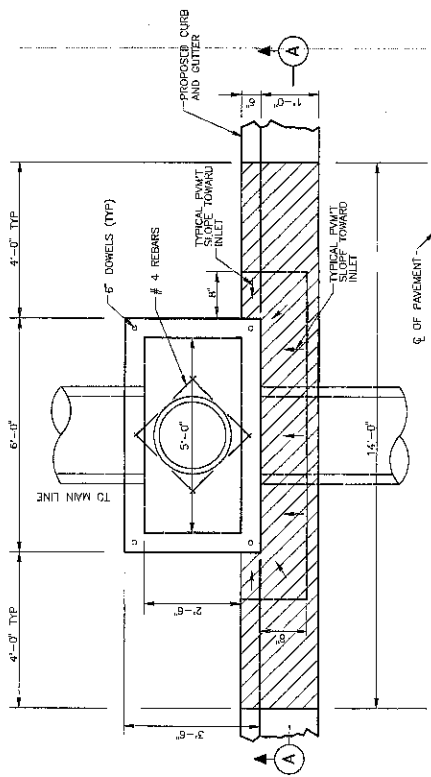
1. CONTRACTOR SHALL CONTACT NEAREST CITY DEPARTMENT ON PUBLIC WORKS IMMEDIATELY IF NET SAND CONTAMINANTS ARE ENCOUNTERED.
2. LIMESTONE AND RECYCLED CONCRETE BRUSHINGS SHOWN ARE TYPICAL BUT MAY BE VARIED AT ORDER OF CITY ENGINEER.
3. LIMESTONE OR RECYCLED CONCRETE SHALL BE IN ACCORDANCE WITH SPECIFICATION NO. 248 FLEXIBLE BASE, TYPE A, GRADE 2, AGGREGATE.
4. NO BEDDING SHALL BE INSTALLED IN NET CONDITIONS WHEN WELL BELOW BOTTOM OF TRENCH FOR A MINIMUM OF 24-HRS AFTER BEDDING AND BACKFILL IS IN PLACE.
5. ALL MATERIALS SHALL BE FROM THE APPROVED PRODUCTS LIST UNLESS SPECIFICALLY APPROVED BY THE CITY ENGINEER.
6. SANDY SOILS BEING 10% NET SAND CONDITIONS SHALL BE AS PER APPROVED "A" OR "A-1".
7. ALL SAND BRIDGING FOR WATER LINES SHALL BE CLEAN, MECHANICALLY COMPACTED BANK SAND.
8. REFER TO MANHOLE DETAILS, SANDWICH C.L.S., GENERAL WATER CROSSING AND WATER DISTRIBUTION DETAILS, AND NOTES.



PROTECTIVE SLAB DETAIL
ZERO LOAD TRANSFER CONCRETE SLAB



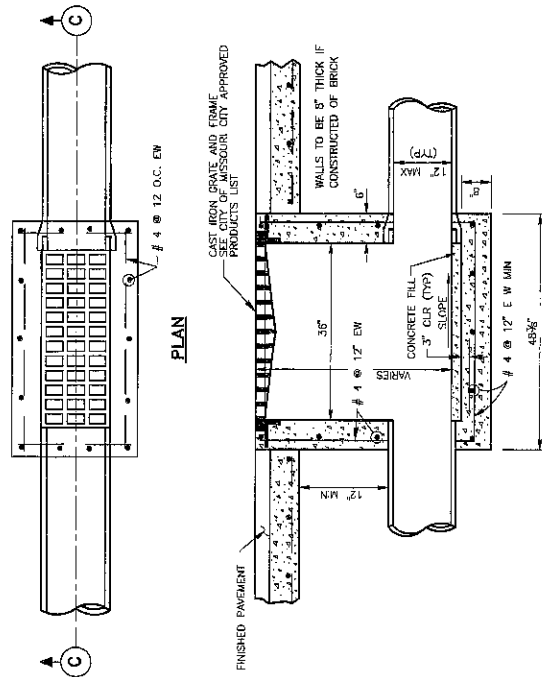
TOTAL SEAL SLAB		(OR AS DIRECTED BY ENGINEER)	
PIPE SIZE	1/2 SACK CEMENT SAND	2 SACK CEMENT SAND	3 SACK CEMENT SAND
42"	5'4"	5'4"	5'4"
48"	5'4"	5'4"	5'4"
54"	5'4"	5'4"	5'4"
60"	5'4"	5'4"	5'4"
66"	5'4"	5'4"	5'4"
72"	5'4"	5'4"	5'4"
78"	5'4"	5'4"	5'4"
84"	5'4"	5'4"	5'4"
90"	5'4"	5'4"	5'4"
96"	5'4"	5'4"	5'4"
102"	5'4"	5'4"	5'4"
108"	5'4"	5'4"	5'4"



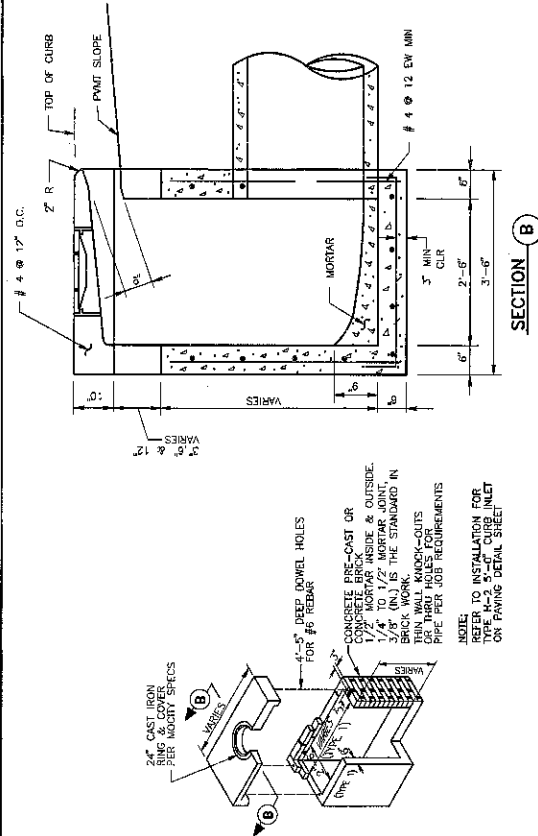
TYPE "H-2" INLET

NOTES.

1. INLET WALLS MAY BE EXTENDED USING PRECAST RISER SECTION.
2. INLETS MUST BE SECURED TO THE INLET WALL USING #6 DOWELS AT 4' ON CENTER.
3. INLET BACKFILL SHALL BE CEMENT STABILIZED SAND TO THE TOP OF INLET FIRST RISE.
4. GRADE 60 REINFORCED #4 STEEL REBAR TO CONFORM TO ASTM A815 OR REQUIRED CENTERS OR EQUAL.
5. REBAR SHALL BE NOTED TO SPECIFICATIONS REQUIRED BY APPROVED DRAININGS. (SEE GENERAL NOTES)
6. THOSE POURED-IN-PLACE REQUIRE #4 REBAR @ 12" O.C. EACH WAY, 3.500 PSI CONCRETE MINIMUM AND 3" THICK MINIMUM.
7. PAVEMENT DEPTH AT INLET SHALL BE EQUAL TO OR GREATER THAN REQUIRED PAVEMENT DEPTH.
8. DEPRESS
- 9.



TYPE "D" INLET



TYPE "H-2" PRECAST INLET

N.T.S.

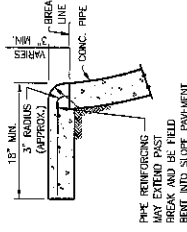
REF ID: A66887

1. GENERAL NOTES
2. SEE C.S.S., PAVEMENT NOTES

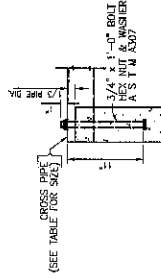
1. THESE DETAILS ARE TO BE USED AS A GUIDE FOR INSTALLATION OF SAFETY PIPE RUNNERS FOR CROSS-DRAINAGE STRUCTURES WHERE OUT OF CONTROL VEHICLES MAY TRAVERSE THE OPENING APPROXIMATELY PERPENDICULAR TO THE SAFETY PIPE RUNNER. SAFETY PIPE RUNNERS ARE INSTALLED ON CROSS-DRAINAGE STRUCTURES AT MAXIMUM SPACINGS OF APPROXIMATELY 24 INCHES. SPACINGS FOR OTHER SPAN LENGTHS ARE PERMISSIBLE WITHOUT PIPE RUNNERS. SINGLE OR MULTIPLE ROWS OF SAFETY PIPE RUNNERS ARE ALSO PERMISSIBLE WITHOUT SAFETY PIPE RUNNERS. DESIGN: SAFETY PIPE RUNNERS ARE DESIGNED FOR A TRAVERSING LOAD OF 1,500 POUNDS AT YIELD AS RECOMMENDED BY RESEARCH REPORT 280-4, SAFETY TREATMENT OF CROSS-DRAINAGE STRUCTURES, TUDOR TRANSPORTATION INSTITUTE, MARCH 1981.

2. SEE STORM OUTFALL DETAILS FOR SLOPE PAVEMENT REQUIREMENTS.

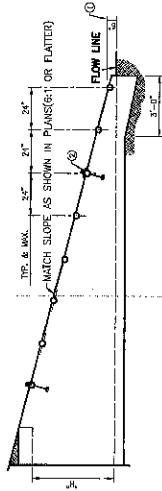
DATA	WALL	O.D.	SLOPE	PIPE LEATH	TYPE	INCHES				FEET			
						A	B	C	D	A	B	C	D
24"		3:1	2'-8"	2	3	8	36	54	7'-6"	11.27			
				3	9	24	48	5'-3"					
				4	2'-6"	5	3	36	72		12'-2"		
				5	3	36	72	12'-2"					
36"		3:1	2'-7"	2	4	10	36	54	10'-8"	14.75			
				3	5	10	36	54	10'-8"				
				4	10	36	54	10'-8"					
				5	11	36	54	10'-8"					
48"		5:1	4'-6"	2	4	10	36	72	18'-0"	23.36			
				3	5	10	36	72	18'-0"				
				4	10	36	72	18'-0"					
				5	11	36	72	18'-0"					
60"		7:1	3'-7"	2	4	10	27	45	11'-3"	15.81			
				3	4	10	27	45	11'-3"				
				4	10	27	45	11'-3"					
				5	10	27	45	11'-3"					
72"		8:1	4'-7"	3	4	10	54	90	24'-0"	30.41			
				4	10	54	90	24'-0"					
				5	11	54	90	24'-0"					
				6	12	54	90	24'-0"					
90"		10:1	5'-8"	3	5	11	36	54	13'-6"	23.24			
				4	11	36	54	13'-6"					
				5	11	36	54	13'-6"					
				6	12	36	54	13'-6"					
108"		12:1	6'-8"	4	5	11	36	72	24'-0"	32.44			
				5	11	36	72	24'-0"					
				6	12	45	14'-3"	19.5					
				7	13	60	19'-0"	25.43					
120"		15:1	5'-7"	5	5	11	63	99	29'-3"	38.27			
				6	12	45	63	17'-3"	22.64				
				7	13	60	84	33'-0"	29.08				
				8	14	60	84	33'-0"	29.08				
144"		18:1	5'-7"	5	6	12	45	61	30'-9"	40.28			
				6	12	45	61	30'-9"					
				7	13	60	81	33'-9"	40.28				
				8	14	60	81	33'-9"	40.28				



SECTION D



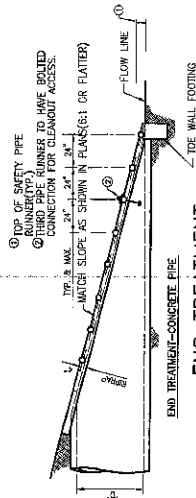
SECTION 6



END TREATMENT
SINGLE & MULTIPLE
BOX CULVERTS

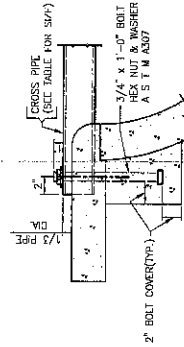
N.T.S.

- ① TOP OF SAFETY PIPE RUNNER(TYP.)
② THIRD PIPE RUNNER TO HAVE BOLTED CONNECTION FOR CLEANOUT ACCESS.



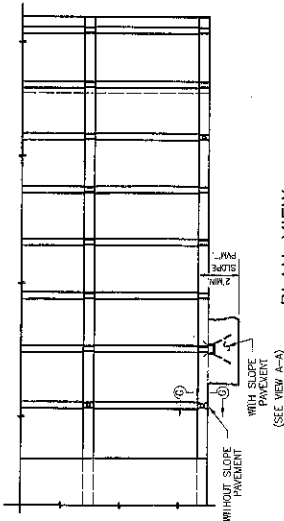
END TREATMENT CONCRETE PIPE

NTS

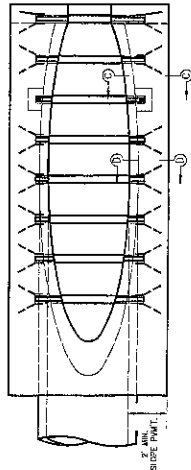


SECTION C

DEEPEN AND WIDEN SLOPE, PAVEMENT AROUND END OF CROSS PIPE AND PROVIDE BOLTED CONNECTION TO ALLOW CLEANOUT ACCESS.



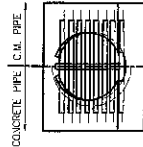
PLAN VIEW



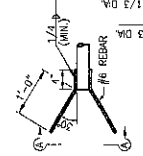
PLAN VIEW
CONCRETE PIPE

NOTE:

- 24" (IN.) TREATMENT REQUIRES NO BARS.
36" (IN.) AND LARGER REQUIRES BARS.
ALL BOLTED BARS ARE ACCEPTABLE



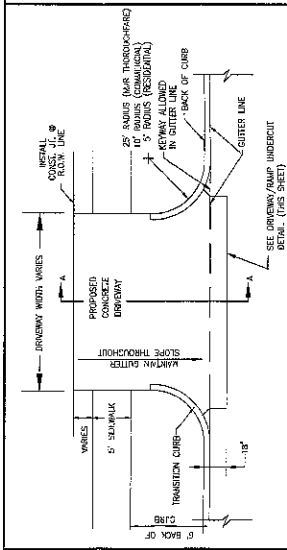
END VIEW
CONCRETE



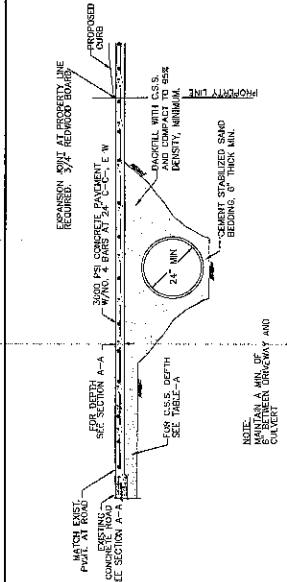
VIEW A-A

PIPE SIZES AND LENGTH		REQUIRED PIPE SIZES FOR GIVEN PIPE YIELD									
CULVERT SIZE	PIPE SIZE AND LENGTH	35 KSI ASTM A36		40 KSI ASTM A36		45 KSI ASTM A36		50 KSI ASTM A36		52 KSI ASTM A36	
		NOM.	I.D.	NOM.	I.D.	NOM.	I.D.	NOM.	I.D.	NOM.	I.D.
36"	48"	3" X 5/8" 3 1/2" STD.	3.500 4.000	2.500 3.564	3" X 5/8" 3 1/2" STD.	3.500 4.000	2.500 3.564	3" STD.	3.500	3.500	3.688
42"	54"	3" X 5/8" 3 1/2" STD.	3.500 4.000	2.500 3.564	3" X 5/8" 3 1/2" STD.	3.500 4.000	2.500 3.564	3" X 5/8" 3 1/2" STD.	3.500 4.000	3.500	3.688
48"	60"	3" X 5/8" 3 1/2" STD.	3.500 4.000	2.500 3.564	3" X 5/8" 3 1/2" STD.	3.500 4.000	2.500 3.564	3" X 5/8" 3 1/2" STD.	3.500 4.000	3.500	3.688
54"	66"	4" X 5/8" 4" STD.	4.500 5.000	3.564 5.047	4" X 5/8" 4" STD.	4.500 5.000	3.564 5.047	4" X 5/8" 4" STD.	4.500 5.000	4.500	4.688
60"	72"	4" X 5/8" 4" STD.	4.500 5.000	3.564 5.047	4" X 5/8" 4" STD.	4.500 5.000	3.564 5.047	4" X 5/8" 4" STD.	4.500 5.000	4.500	4.688

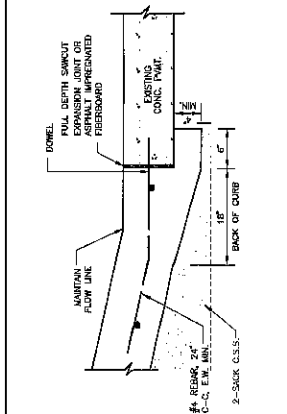
[illegible]



6" CONCRETE CURB
DRIVEWAY PLAN

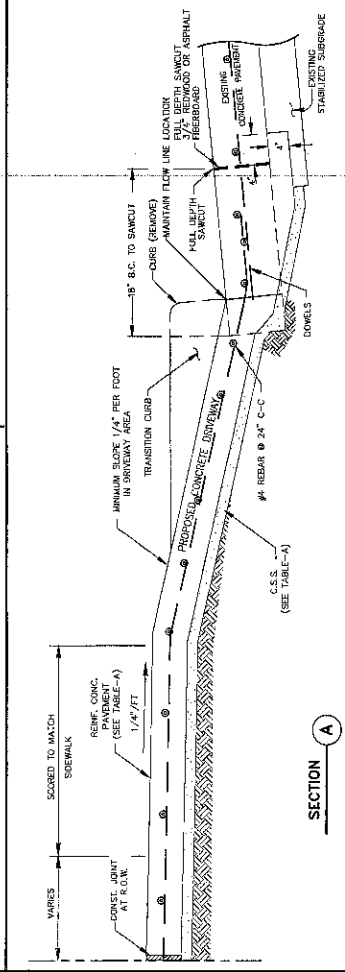


CONCRETE APRON DETAIL -- DRIVEWAY PROFILE
FOR CULVERT DRAINAGE

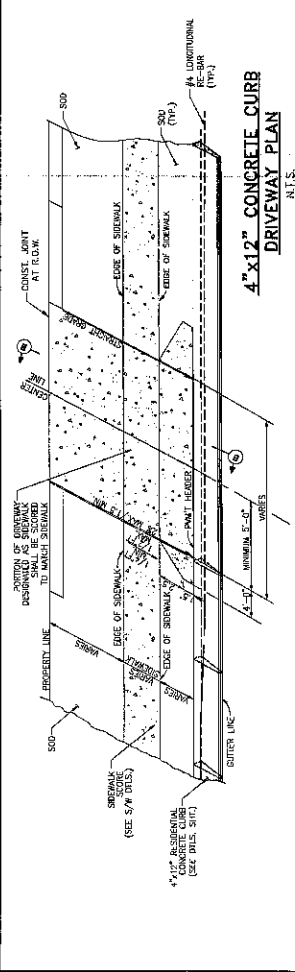


DRIVEWAY/RAMP UNDERCUT
N.T.S.

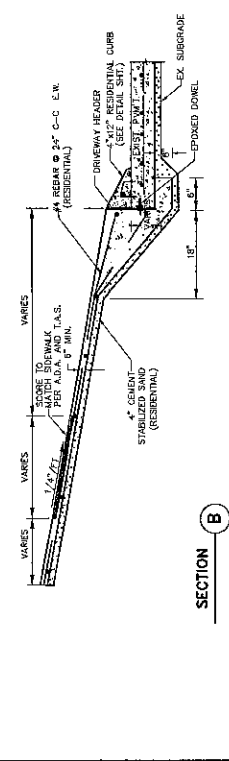
- 1.) SAW CUT & BREAKOUT NO MORE THAN 72 HOURS PRIOR TO PROPOSED CONCRETE PLACEMENT.
- 2.) INSTALLED SHERROD SHALL BE OVER EXCAVATED & REPLACED WITH LUNARESE.
- 3.) IT IS CONTRACTORS RESPONSIBILITY TO NOTIFY MISSOURI CITY OF ANY BID BIDDING PROBLEMS PRIOR TO CONSTRUCTION OF DRIVEWAY.
- 4.) USE 1/2" TREATED STAKES FOR READER.
- 5.) EDGE ALL SIDES WITH EDGING TOOL AND BROOM FINISH
- 6.) FOR INDUSTRIAL DRINKS, PAVEMENT SHALL HAVE A DEPTH OF 6" (4).
- 7.) EXPANSION JOINT AT PROPERTY LINE REQUIRED. 3/4" REDWOOD BOARD WITH NO. 4 DOWELS MINIMUM.
- 8.) MAXIMUM ALLOWABLE DRIVEWAY CHASE IN PUBLIC ROW IS 52".
- 9.) DRIVEWAY CHASE MUST MEET A.D.A. AND T.A.S. SIDEWALK SLOPE. SIDEWALKS MUST BE SLOPED TO MATCH ADJACENT SIDEWALK. IF SIDEWALKS ARE NOT SLOPED TO MATCH ADJACENT SIDEWALK, A 2'x4" REDWOOD EXPANSION JOINT WITH DOWELS AT FOLLOW LINE.
- 10.) REFER TO GENERAL, C.C.S. ASPHALT, AND CONCRETE PAVEMENT NOTES.



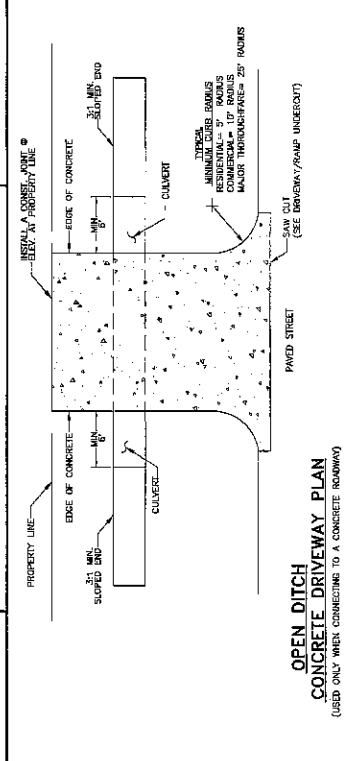
SECTION _____ A



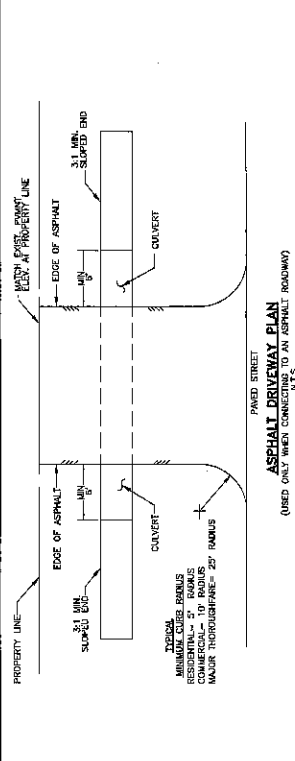
12" CONCRETE CURB
DRIVEWAY PLAN
N.T.S.



SECTION **B**



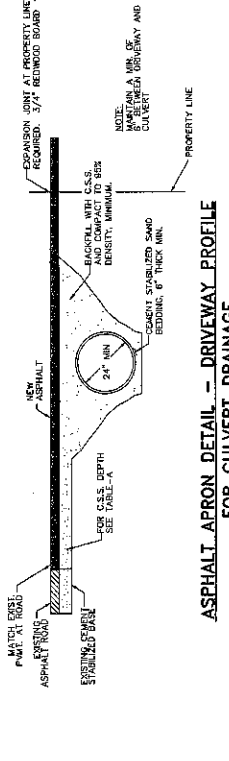
OPEN DITCH
CONCRETE DRIVEWAY PLAN
(USED ONLY WHEN CONNECTING TO A CONCRETE ROADWAY)



PAVED STREET

ASPHALT DRIVEWAY PLAN

(USED ONLY WHEN CONNECTING TO AN ASPHALT ROADWAY)

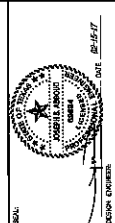


ASPHALT APRON DETAIL - DRIVEWAY PROFILE
FOR CULVERT DRAINAGE

TABLE-A		
CEMENT STABILIZED SAND 1 1/2" 5K PER IN.		
RESIDENTIAL	4" MINIMUM	
COMMERCIAL	6" MINIMUM	
INDUSTRIAL	8" MINIMUM	
REINFORCED CONCRETE PAVEMENT AND APPROACHES		
SCHOOL	300 TO 750	4" MINIMUM
COMMERCIAL	750 TO 1500	7" MINIMUM
INDUSTRIAL	1500 TO 3000	8" MINIMUM

TABLE-A

DRIVEWAY PAVEMENT CONSTRUCTION TABLE

[illegible]

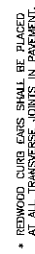
SHOPPES AT SIENNA
PLANTATION

C23

JOB NO.: MC-22-15
SCALE: AS NOTED
SUBMITTED: SHEET 23 OF 28
DATE: FEBRUARY 2015

[illegible]

7.5.

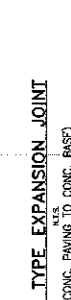


WTG

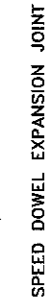
CONSTRUCTION NOTE:
ALL NEW CURB REQUIRES 3,500 P.S.I. @ 28-DAYS, AND A MINIMUM OF
-LB/CY OF APPROVED POLYPROPYLENE FIBER MESH.



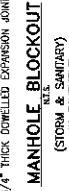
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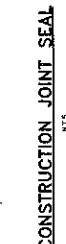
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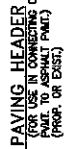
NTS



STORM & S
N.T.S.



N.T.S.

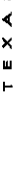


**LECTING COND
PART.)**

NTS

1

THE LOCATION OF CONSTRUCTION JOINTS AND DEFORMED STRIPS MAY BE VARIED, WITH THE APPROVAL OF THE DEPARTMENT OF PUBLIC WORKS, TO SUIT THE PROPOSED CONSTRUCTION METHODS OF THE CONTRACTOR. MAXIMUM SPACING FOR LONGITUDINAL CONTROL JOINTS 15'-0".



1



CONSTRUCTION PLANS FOR:

SHOPPES AT SIENNA
PLANTATION

224

MC-17-15

FILED AS NOTED
SUBMITTED: _____
16 FEBRUARY 2013

