



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: 2017-15143

Applicant: Precise Services, Inc./LJA Engineering, Inc.

Job Location Site: Sienna Parkway, Missouri City, TX 77459

Bond No. *****1700 **Date of Bond:** 7/21/2017 **Amount:** \$78,423.13

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 1st day of August, 2017, Upon Motion of Commissioner Meyers, seconded by Commissioner Morales, 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

Date Recorded 8-4-2017 Comm. Court No. 9B

for County Engineer

Clerk of Commissioners Court

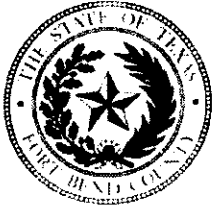
N/A

By: _____

By: Ronda Wallis

Drainage District Engineer/Manager

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@fortbendcountytexas.gov

- ☐ Right of Way Permit
☒ Commercial Driveway Permit

Permit No: 2017-15143

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: \$78,423.13
☐ 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.

Cheryl O. Ay

Permit Administrator

7/25/17
Date

**PERFORMANCE BOND COVERING ALL CABLE, CONDUIT AND/OR POLE LINE
ACTIVITY IN, UNDER, ACROSS OR ALONG FORT BEND COUNTY ROAD**

AUTHORIZED

BOND NO.

THE STATE OF TEXAS

§

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND

§

THAT WE, Precise Services, Inc. whose address is 22337 Sandy Lane, Porter, Texas 77365 Texas, hereinafter called the Principal, And International Fidelity Insurance Company, a Corporation existing under and by virtue of the laws of the state of New Jersey and authorized to do an indemnifying business in the state of Texas, and whose principal office is located at One Newark Center, Newark, NJ 07102, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought whining said state is Eric Anderson and Whose address is 10077 Grogans Mill Rd., Ste. 260, The Woodlands, TX 77380, 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 Seventy Eight Thousand Four Hundred Twenty Three and 13/100 Dollars (\$ 78,423.13) 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 21st day of July, 20 17.

Precise Services, Inc.

PRINCIPAL

BY

International Fidelity Insurance Company

SURETY

BY Cheryl Colson, Attorney-in-Fact

CCM 8-1-2017 # 98
Fort Bend County Clerk
Return Admin Serv Coord

RAC

POWER OF ATTORNEY

INTERNATIONAL FIDELITY INSURANCE COMPANY ALLEGHENY CASUALTY COMPANY

ONE NEWARK CENTER, 20TH FLOOR NEWARK, NEW JERSEY 07102-5207

KNOW ALL MEN BY THESE PRESENTS: That INTERNATIONAL FIDELITY INSURANCE COMPANY, a corporation organized and existing under the laws of the State of New Jersey, and ALLEGHENY CASUALTY COMPANY a corporation organized and existing under the laws of the State of New Jersey, having their principal office in the City of Newark, New Jersey, do hereby constitute and appoint

KEVIN MCQUAIN, CHERYL R. COLSON, ELAINE LEWIS, ROSALYN D. HASSELL, SCOTT D. CHAPMAN,
KEITH M. ILLA, JEANNE M. BUCHAN, JUSTIN MCQUAIN

The Woodlands, TX.

their true and lawful attorney(s)-in-fact to execute, seal and deliver for and on its behalf as surety, any and all bonds and undertakings, contracts of indemnity and other writings obligatory in the nature thereof, which are or may be allowed, required or permitted by law, statute, rule, regulation, contract or otherwise, and the execution of such instrument(s) in pursuance of these presents, shall be as binding upon the said INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY, as fully and amply, to all intents and purposes, as if the same had been duly executed and acknowledged by their regularly elected officers at their principal offices.

This Power of Attorney is executed, and may be revoked, pursuant to and by authority of the By-Laws of INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY and is granted under and by authority of the following resolution adopted by the Board of Directors of INTERNATIONAL FIDELITY INSURANCE COMPANY at a meeting duly held on the 20th day of July, 2010 and by the Board of Directors of ALLEGHENY CASUALTY COMPANY at a meeting duly held on the 15th day of August, 2000:

"RESOLVED, that (1) the President, Vice President, Chief Executive Officer or Secretary of the Corporation shall have the power to appoint, and to revoke the appointments of, Attorneys-in-Fact or agents with power and authority as defined or limited in their respective powers of attorney, and to execute on behalf of the Corporation and affix the Corporation's seal thereto, bonds, undertakings, recognizances, contracts of indemnity and other written obligations in the nature thereof or related thereto; and (2) any such Officers of the Corporation may appoint and revoke the appointments of joint-control custodians, agents for acceptance of process, and Attorneys-in-fact with authority to execute waivers and consents on behalf of the Corporation; and (3) the signature of any such Officer of the Corporation and the Corporation's seal may be affixed by facsimile to any power of attorney or certification given for the execution of any bond, undertaking, recognizance, contract of indemnity or other written obligation in the nature thereof or related thereto, such signature and seals when so used whether heretofore or hereafter, being hereby adopted by the Corporation as the original signature of such officer and the original seal of the Corporation, to be valid and binding upon the Corporation with the same force and effect as though manually affixed."

IN WITNESS WHEREOF, INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY have each executed and attested these presents on this 31st day of December, 2015.



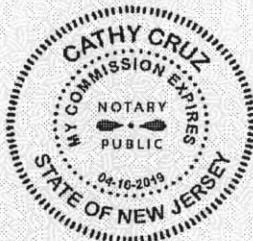
STATE OF NEW JERSEY
County of Essex

ROBERT W. MINSTER
Chief Executive Officer (International Fidelity Insurance Company) and President (Allegheny Casualty Company)



On this 31st day of December 2015, before me came the individual who executed the preceding instrument, to me personally known, and, being by me duly sworn, said he is the therein described and authorized officer of INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY; that the seals affixed to said instrument are the Corporate Seals of said Companies; that the said Corporate Seals and his signature were duly affixed by order of the Boards of Directors of said Companies.

IN TESTIMONY WHEREOF, I have hereunto set my hand affixed my Official Seal, at the City of Newark, New Jersey the day and year first above written.



A NOTARY PUBLIC OF NEW JERSEY
My Commission Expires April 16, 2019

CERTIFICATION

I, the undersigned officer of INTERNATIONAL FIDELITY INSURANCE COMPANY and ALLEGHENY CASUALTY COMPANY do hereby certify that I have compared the foregoing copy of the Power of Attorney and affidavit, and the copy of the Sections of the By-Laws of said Companies as set forth in said Power of Attorney, with the originals on file in the home office of said companies, and that the same are correct transcripts thereof, and of the whole of the said originals, and that the said Power of Attorney has not been revoked and is now in full force and effect.

IN TESTIMONY WHEREOF, I have hereunto set my hand this

21st day of July, 2017

MARIA BRANCO, Assistant Secretary

FILED AND RECORDED
OFFICIAL PUBLIC RECORDS

Laura Richard



Laura Richard, County Clerk
Fort Bend County, Texas

August 04, 2017 03:06:29 PM

FEE: \$0.00 SB
BOND

2017087751

APPROVED FOR CONSTRUCTION

BY _____ DATE _____

LIMING SUBGRADE

- [illegible]

CONCLUSIONS

- [illegible]

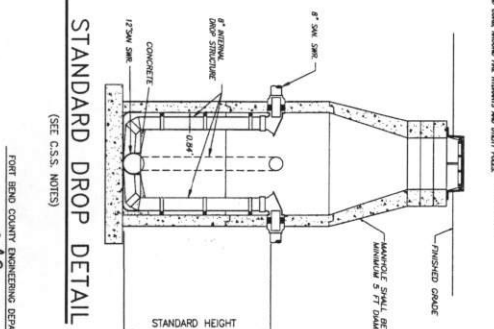
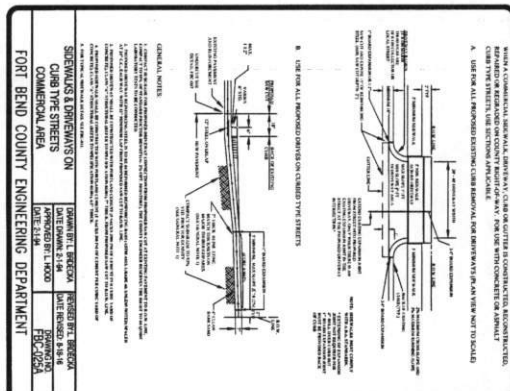
LEFT TURN LANES AND PAVING IMPROVEMENTS TO SERVE SIENNA PARKWAY AND SCANLAN TRACE EAST - JOB NO. 1415-1551

STORM SEWER NOTES

- [illegible]

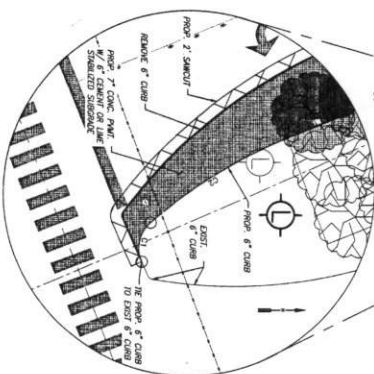
minimum pressure of 20 psi under conditions by 50 TAC § 290.4(c).

- [illegible]

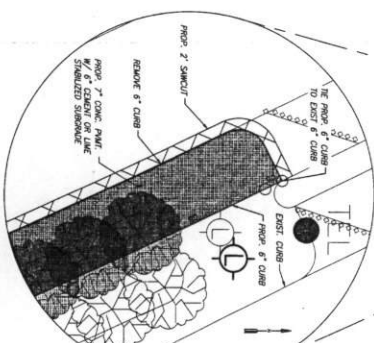
[illegible][illegible]

Line Table				
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L2	00:01:20.78.55	00:01:22.05	00:01	042.27 04.62.9
L3	00:01:27.06.35	00:01:28.33	00:01	042.18 04.62.9
L4	00:01:27.06.35	00:01:28.33	00:01	042.18 04.62.9

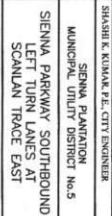
!!!!CAUTION!!!!
EXISTING
OVERHEAD POWER

$$1'' = 10$$

$$1'' = 10$$

- [illegible]

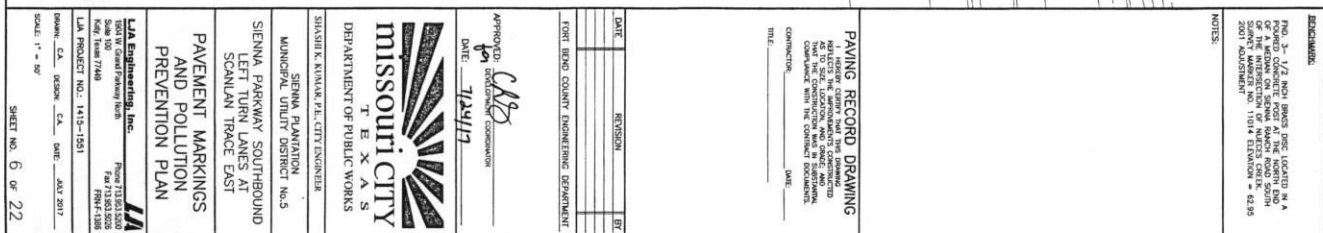

$$1'' = 10$$

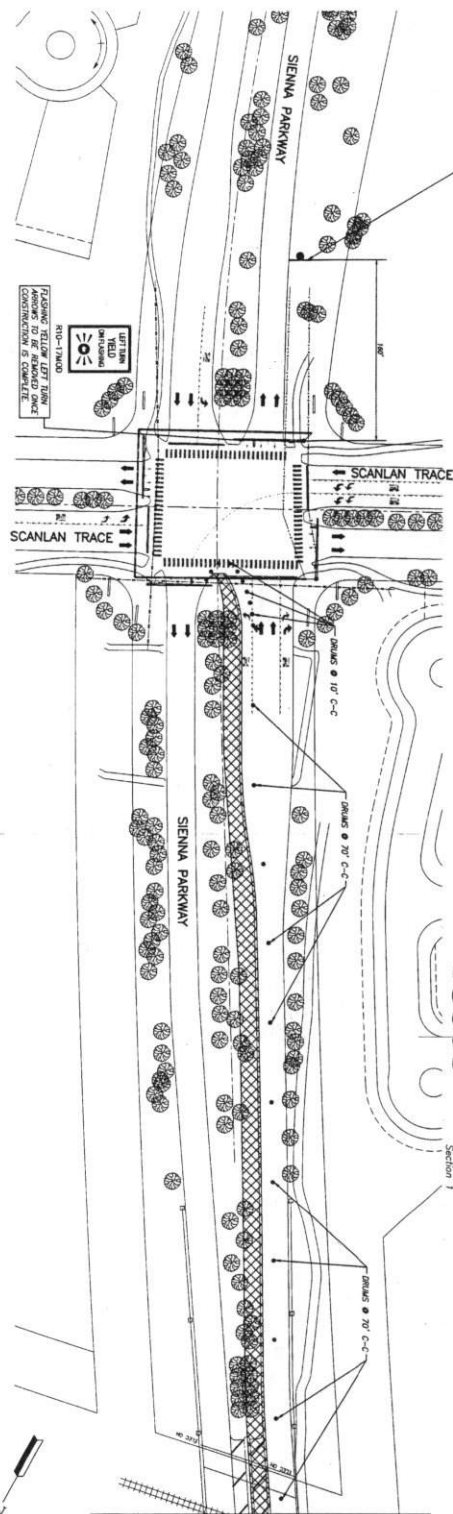

APPROVED: [Signature]
DEVELOPMENT COORDINATOR
DATE: 7/24/17



LJA Engineering, Inc.
1904 W. Grand Parkway North
Suite 100
Katy, Texas 77449
Phone 713 553 5200
Fax 713 553 5022
FRN4-F-138

POD, 3-1/2 INCH BRASS DISC LOCATED IN A
PUNCHED CONCRETE POST AT THE NORTH END
OF A MEDIAN ON SENNA RANCH ROAD SOUTH
OF THE INTERSECTION OF NILESSEX CREEK.
SURVEY MARKER NO. 11014 ELEVATION = 62.99
2001 ADJUSTMENT





.....CAUTION.....
EXISTING
OVERHEAD POWER

PAYING RECORD DRAWING
I HEREBY CERTIFY THAT THIS DRAWING REFLECTS THE IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION AND GRADE, AND THAT THE CONSTRUCTION WAS IN SUBSTANTIAL COMPLIANCE WITH THE CONTRACT DOCUMENTS.

CONTRACTOR: _____ DATE: _____
TITLE: _____

DATE	REVISION

FORT BEND COUNTY ENGINEERING DEPARTMENT



missouri city
T E X A S
DEPARTMENT OF PUBLIC WORKS

SIENNA PLANTATION
MUNICIPAL UTILITY DISTRICT No.5
SIENNA PARKWAY SOUTHBOUND
LEFT TURN LANES AT .

TEMPORARY TRAFFIC CONTROL PLAN

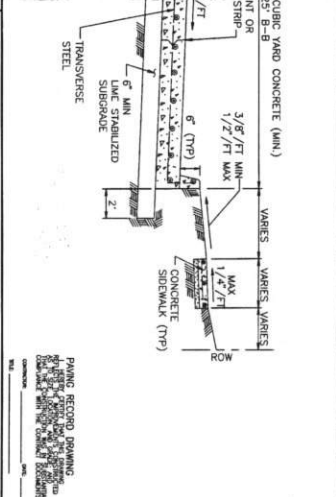
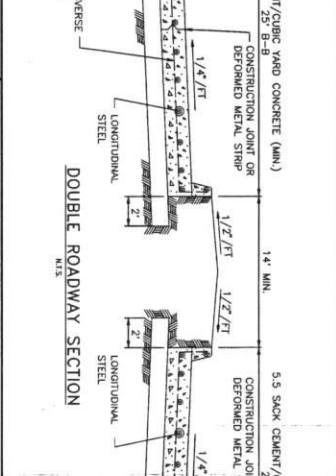
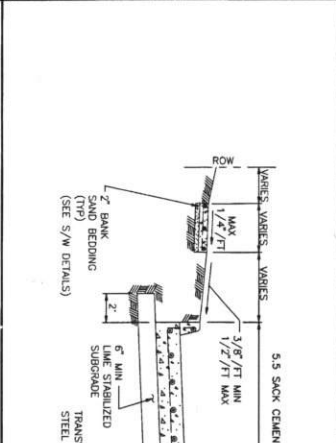
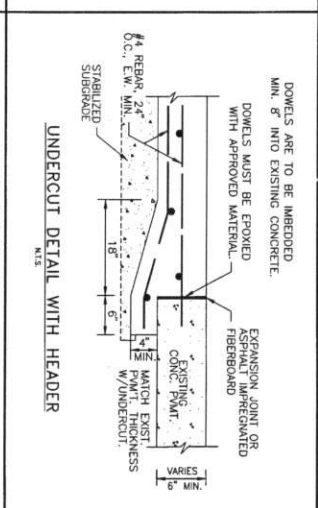
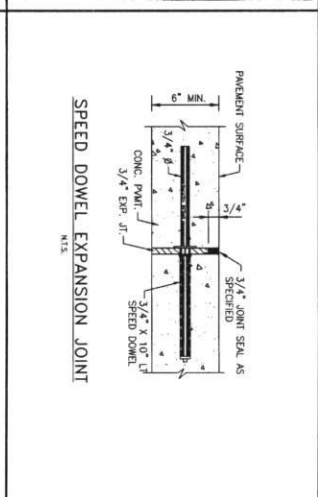
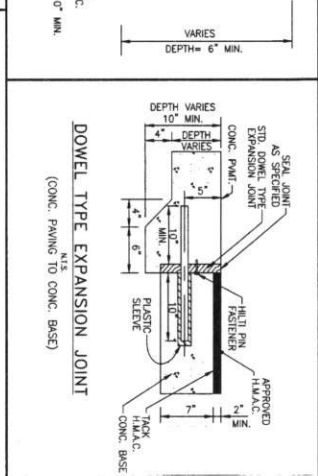
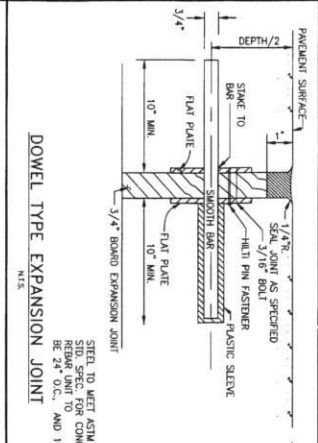
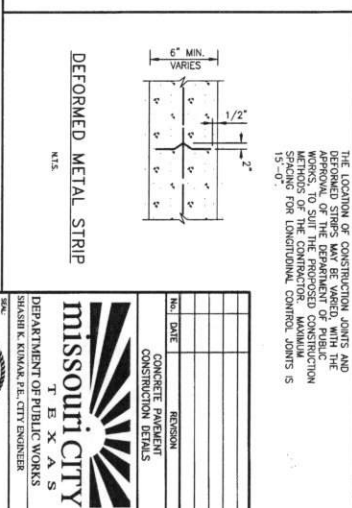
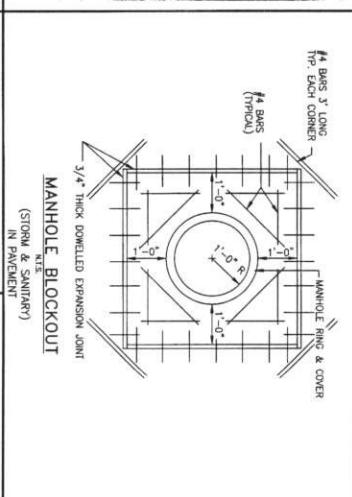
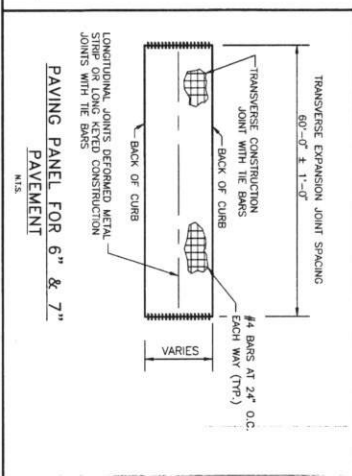
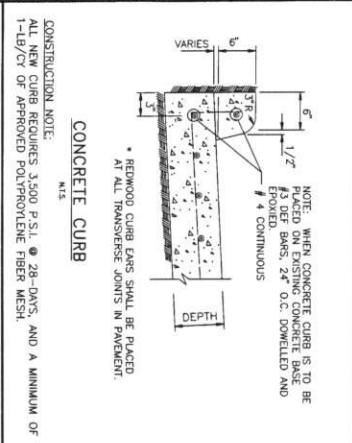
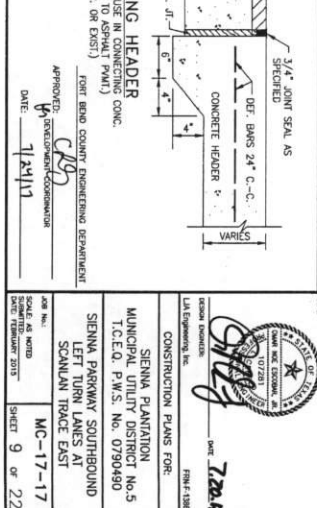
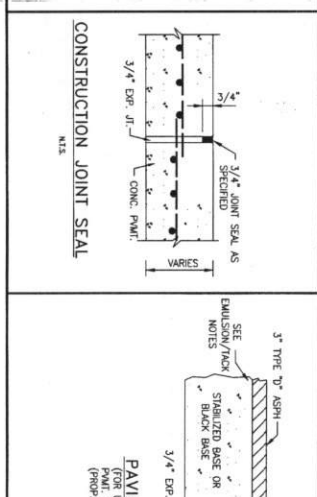
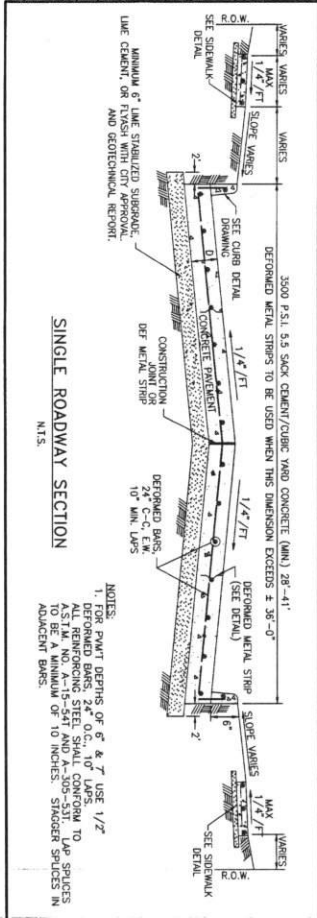
LJA Engineering, Inc.
1804 W. Grand Parkway North
Suite 100
Katy, Texas 77449
Phone 713.963.3333
Fax 713.963.3333
FPM-F-1

LJA PROJECT NO.: 1415-1551

Drawn: CA DESIGNED: CA DATE: JULY 2017

SCALE: 1" = 50'






CONSTRUCTION NOTES:

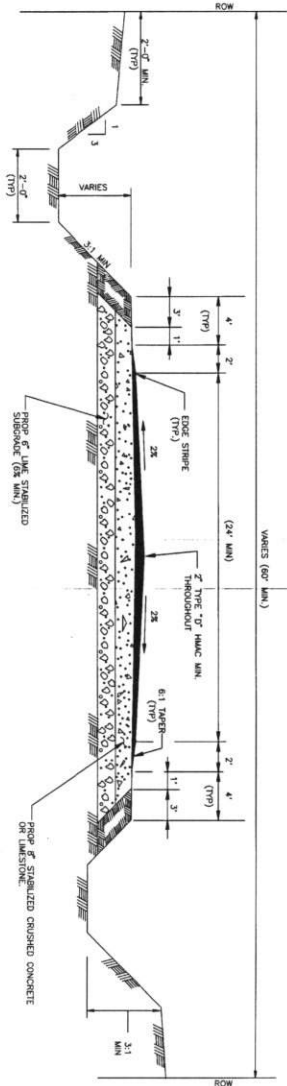
1. 6 INCH 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REMOVED CONCRETE WITH #4 BARS 24 INCHES O.C., E.W. IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR RESIDENTIAL STREETS.
2. 7 INCH 5.5 SACK CEMENT PER CUBIC YARD CONCRETE, 3500 PSI REMOVED CONCRETE WITH #4 BARS 24 INCHES O.C., IS THE MINIMUM ACCEPTABLE PAVEMENT CONSTRUCTION FOR COLLECTOR AND THROATWAYS STREETS.
3. UNDO ASBESTOS IS NOT ALLOWED IN STREET PAVEMENT WORK. ANY EXISTING CITY OF MISSOURI CITY PAVEMENT WORKS DEPARTMENT APPROVAL.
4. TRANSVERSE EXPANSION JOINTS ARE REQUIRED AT MAXIMUM SPACING OF 60'-0\"/>

ASPHALT PAVEMENT - DITCH SECTION

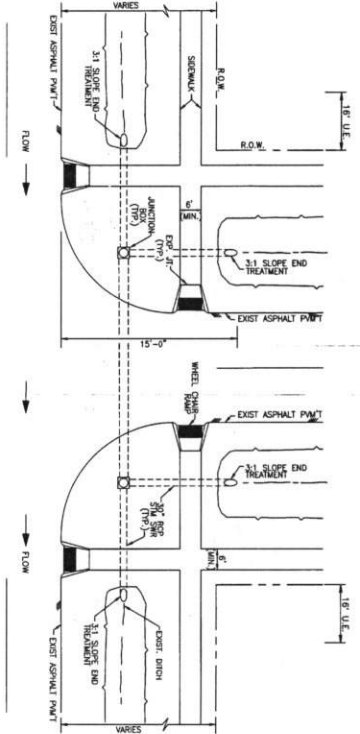
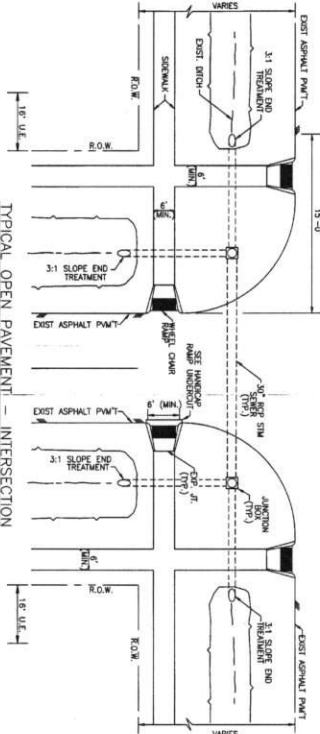
- REFER TO:
1. GENERAL NOTES
 2. ASPHALT NOTES
 3. BASE NOTES
 4. TACK & EMULSION NOTES

APPROVED: **C45**
 PROJECT ENGINEER
 DATE: 7/24/17

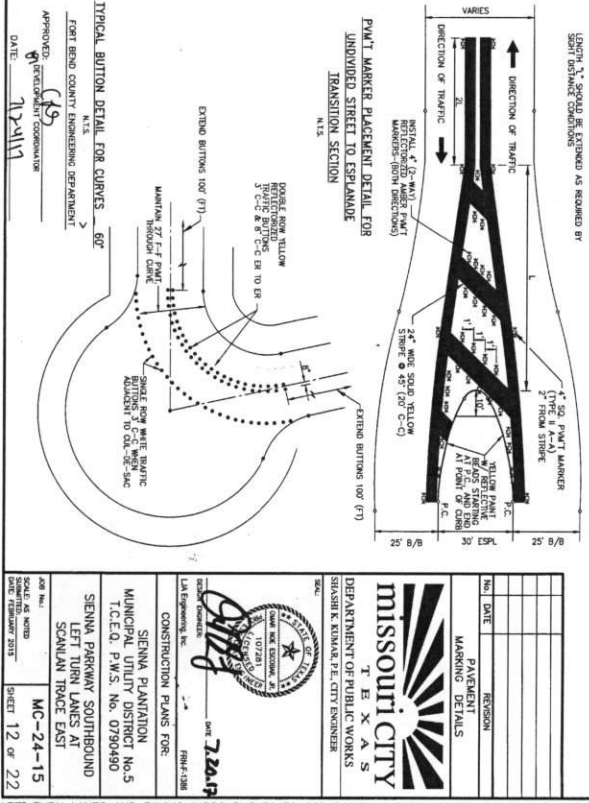
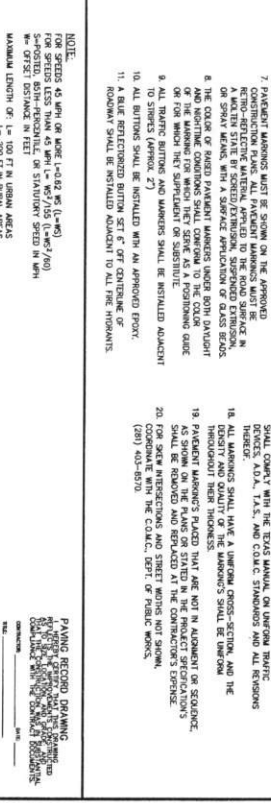
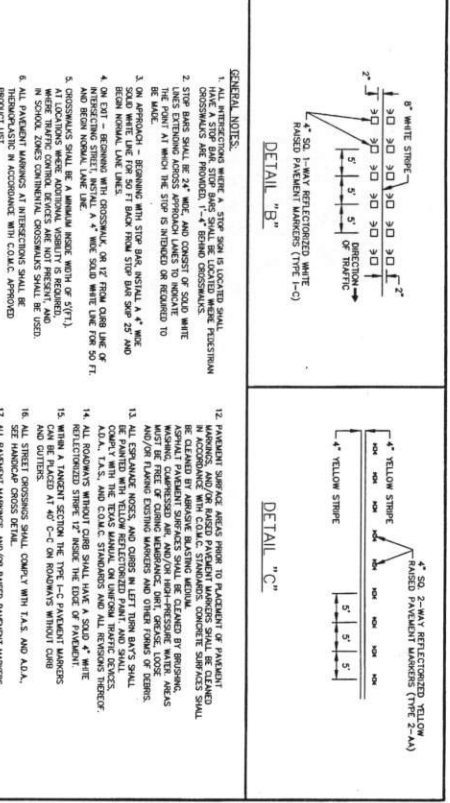
 <p> missouri city T E X A S DEPARTMENT OF PUBLIC WORKS SHARIL K. KIMMEL P.E. CITY ENGINEER </p>		SCALE: AS NOTED SHEET 11 OF 22
CONSTRUCTION PLANS FOR: SIENNA PLANTATION MUNICIPAL UTILITY DISTRICT NO. 5 T.C.E.O. P.W.S. NO. 0790490 SIENNA PARKWAY SOUTHBOUND LEFT TURN LANES AT SCANLAN TRACE EAST		PROJECT NO.: MC-19-15 SHEET 11 OF 22

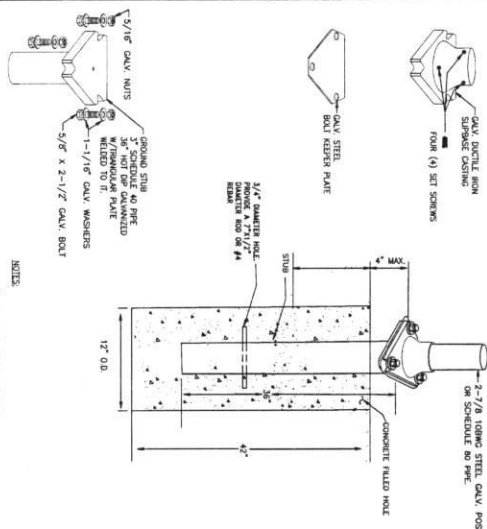


TYPICAL OPEN PAVEMENT - INTERSECTION



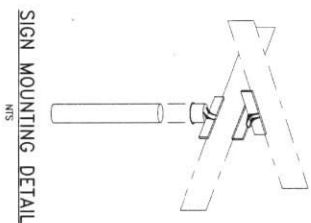
PAVING RECORD DRAWING
 FOR THE PROJECT
 SIENNA PLANTATION
 MUNICIPAL UTILITY DISTRICT NO. 5
 T.C.E.O. P.W.S. NO. 0790490
 SIENNA PARKWAY SOUTHBOUND
 LEFT TURN LANES AT
 SCANLAN TRACE EAST





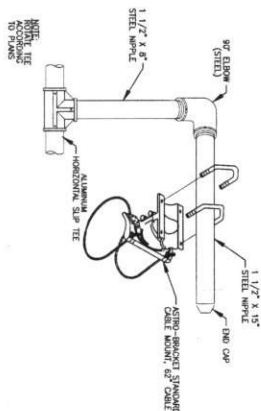
- 1.) FILL HOLE TO GROUND LEVEL.
- 2.) PRESS BASE INTO CENTER OF CONCRETE.
- 3.) LEVEL BASE 3" ABOVE GROUND.
- 4.) TIGHTEN (TORQUE) NUTS BETWEEN 60 TO 80 FT/LB MAX.

DETAIL OF STANDARD TRIANGULAR SLIPBASE INSTALLATION

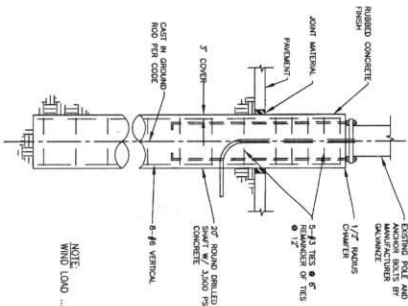


COLOR	COLOR CODE
BLUE	1179C
RED	1172C
WHITE	4090+
YELLOW	4091+

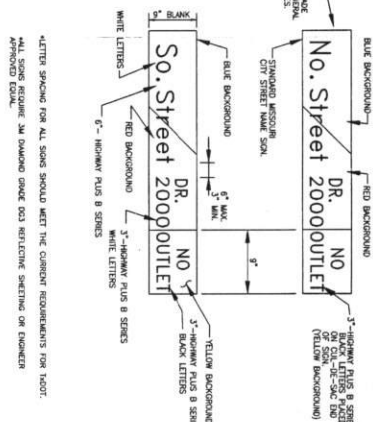
1. CONTRACTOR TO VERIFY SHEETING COLORS PRIOR TO INSTALLATION OF SIGNS.
2. CONTRACTOR IS REQUIRED TO FOLLOW ALL MANUFACTURERS REQUIREMENTS FOR SHEETING PRODUCTS UNLESS DIRECTED OTHERWISE BY ENGINEER.
3. CONTRACTOR IS REQUIRED TO MEET REQUIREMENTS OF THE CURRENT TxDOT MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES (TMUTCD).



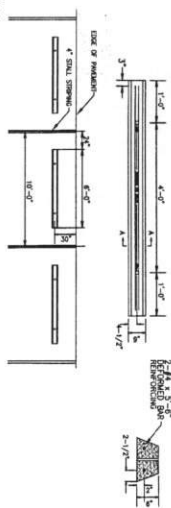
ASTRO BRACKET CABLE MOUNT DETAIL



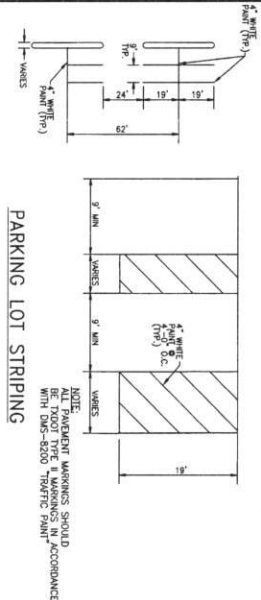
LIGHT POLE BASE DETAIL



1. SECURELY WELD STEEL HANG SOUS TO TRAVEL SOUS, SUPPORT WELDS WITH MULTI-LEVELING, AND DAMPING BRACKETS.
2. SUPPORT WELDS SHOULD NOT BE EXPOSED TO RUST INDUCED BY MOISTURE.
3. REMOVE OLD STEEL HANG SOUS IMMEDIATELY IF FOUND FOLD OR CRACKING TRAVEL OR OLD TRAVEL SOUS SPIN.
4. REMOVE OLD STEEL HANG SOUS IMMEDIATELY IF FOUND CRACKING TRAVEL OR OLD TRAVEL SOUS SPIN.
5. LITTERS FOR DOWEL "H" SHALL BE UPPER CODE. STEEL STRIPS & "NO DOWEL" SHALL BE UPPER CODE.
6. ALL STEELING SHALL BE "TANGLED SHOT" OR APPROVED EQUAL.
7. USE APPROVED BEAMS ONLY.
8. REMOVAL SHALL BE 100%.
9. "SHOTS" = 100%



CONCRETE WHEEL STOPS



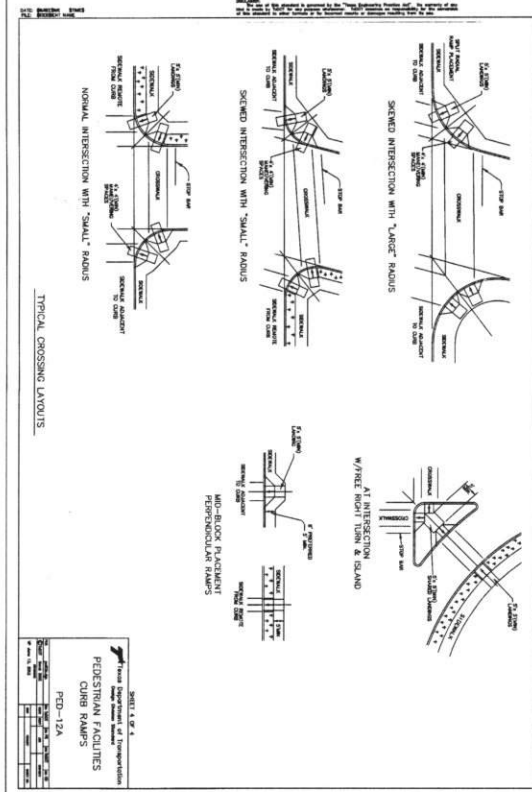
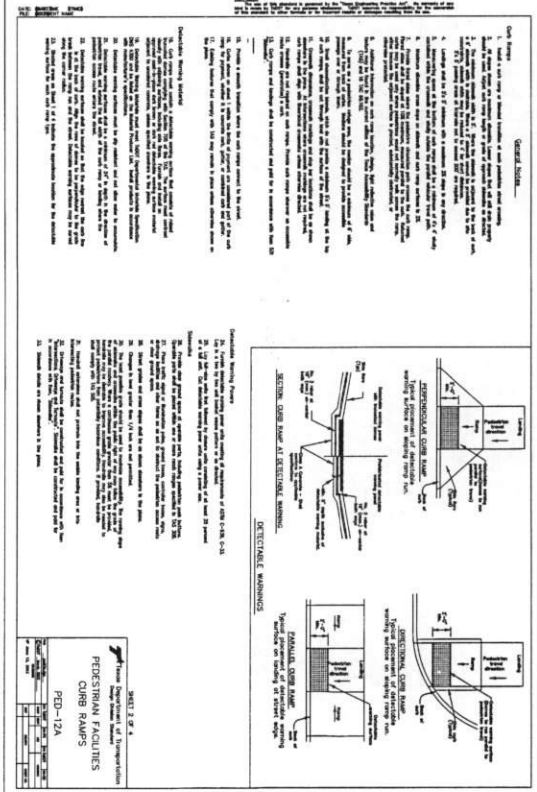
PARKING LOT STRIPING

No.	DATE	REVISION



STATE OF TEXAS
COUNTY OF DALLAS
107261
JAN 10 2012
L&L Engineering, Inc.
DATE 7.20.11
CONSTRUCTION PLANS FOR: FRANKLIN

SIENNA PLANTATION MUNICIPAL UTILITY DISTRICT No.5 T.C.E.Q. P.W.S. No. 0790490	JOB NO.: SCALE: AS NOTED DATE: FEBRUARY 2013
SIENNA PARKWAY SOUTHBOUND LEFT TURN LANES AT SCANLAN TRACE EAST	MC-25-17 SHEET 13 OF 22



SECTION 1.12.12 NEW BRIDGE DECK LOCATED IN A POWER CONCRETED JOINT IN THE NORTH END OF THE BRIDGE. THE BRIDGE DECK IS TO BE RECONSTRUCTED WITH 12" THICK CONCRETE, 5000 PSI STRENGTH, WITH 10% AIR ENTRAINMENT. THE BRIDGE DECK IS TO BE RECONSTRUCTED WITH 12" THICK CONCRETE, 5000 PSI STRENGTH, WITH 10% AIR ENTRAINMENT. THE BRIDGE DECK IS TO BE RECONSTRUCTED WITH 12" THICK CONCRETE, 5000 PSI STRENGTH, WITH 10% AIR ENTRAINMENT.

DATE: _____

REVISION: _____

BY: _____

FOR: _____

APPROVED: *(Signature)*
DATE: 1/24/17
PROJECT NO. 14-09-22

FOR: _____

DATE: _____

SECTION 1.12.12 NEW BRIDGE DECK LOCATED IN A POWER CONCRETED JOINT IN THE NORTH END OF THE BRIDGE. THE BRIDGE DECK IS TO BE RECONSTRUCTED WITH 12" THICK CONCRETE, 5000 PSI STRENGTH, WITH 10% AIR ENTRAINMENT. THE BRIDGE DECK IS TO BE RECONSTRUCTED WITH 12" THICK CONCRETE, 5000 PSI STRENGTH, WITH 10% AIR ENTRAINMENT. THE BRIDGE DECK IS TO BE RECONSTRUCTED WITH 12" THICK CONCRETE, 5000 PSI STRENGTH, WITH 10% AIR ENTRAINMENT.

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SECTION 1.12.12 NEW BRIDGE DECK LOCATED IN A POWER CONCRETED JOINT IN THE NORTH END OF THE BRIDGE. THE BRIDGE DECK IS TO BE RECONSTRUCTED WITH 12" THICK CONCRETE, 5000 PSI STRENGTH, WITH 10% AIR ENTRAINMENT. THE BRIDGE DECK IS TO BE RECONSTRUCTED WITH 12" THICK CONCRETE, 5000 PSI STRENGTH, WITH 10% AIR ENTRAINMENT. THE BRIDGE DECK IS TO BE RECONSTRUCTED WITH 12" THICK CONCRETE, 5000 PSI STRENGTH, WITH 10% AIR ENTRAINMENT.

DATE: _____

REVISION: _____

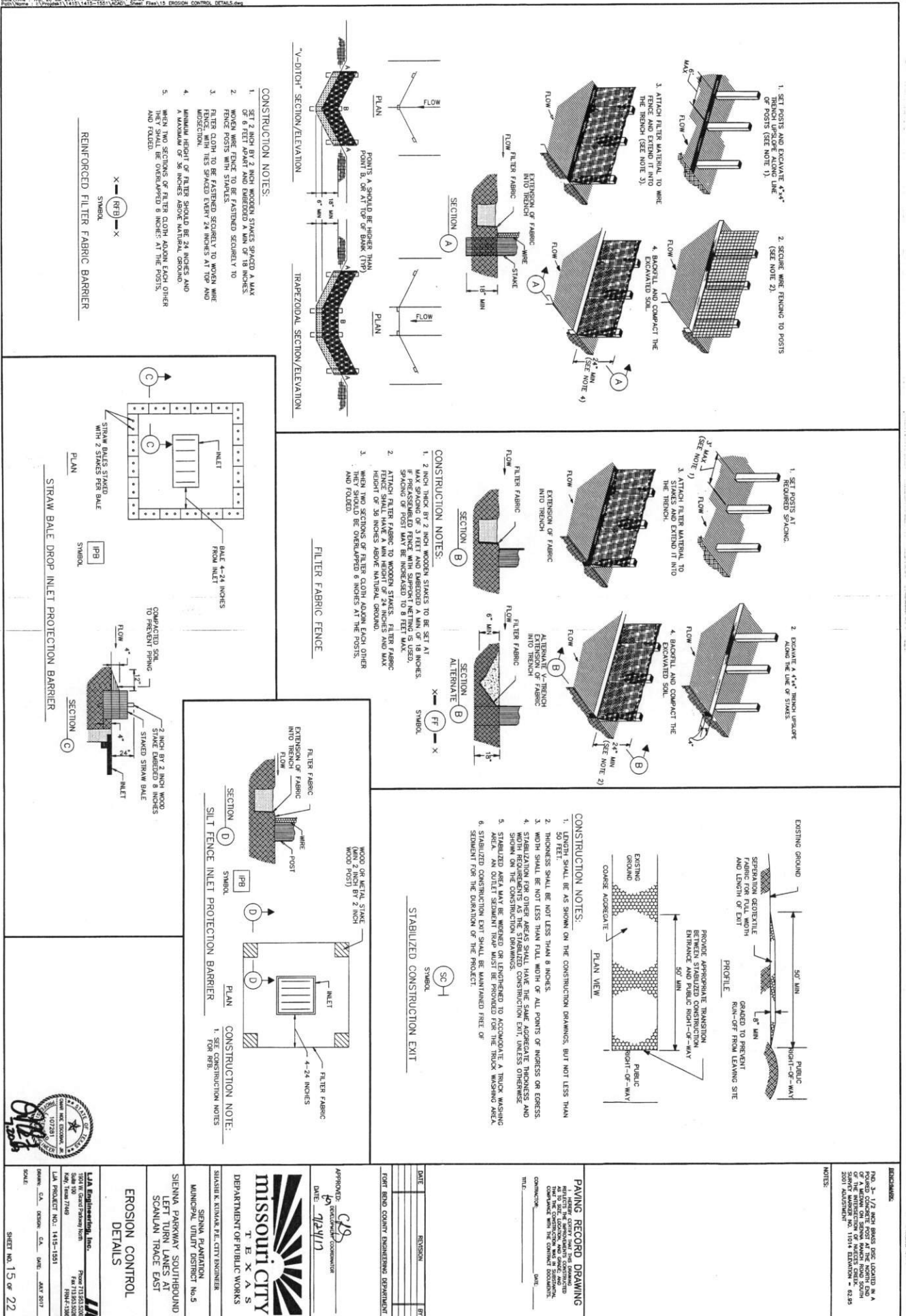
BY: _____

FOR: _____

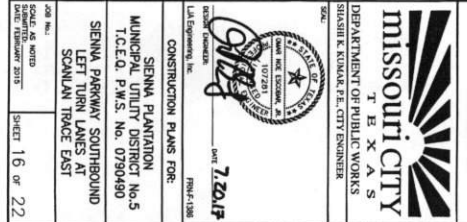
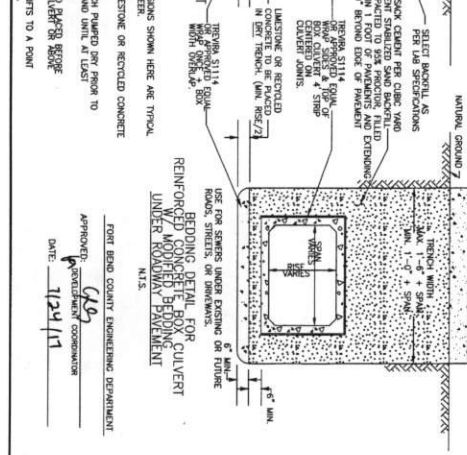
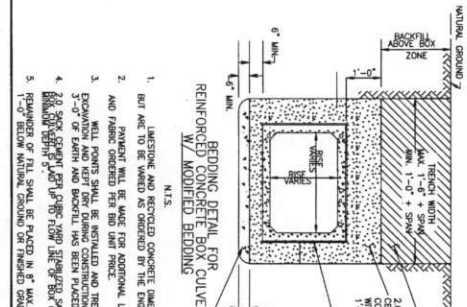
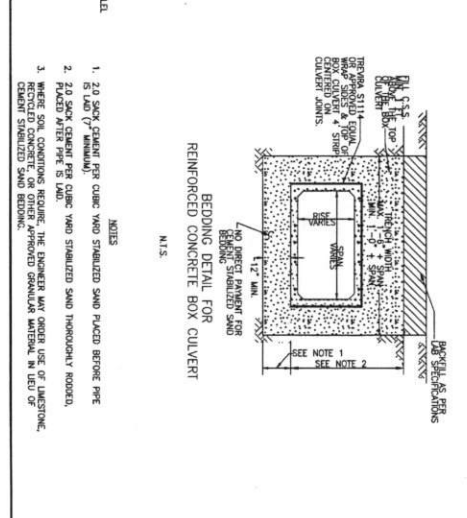
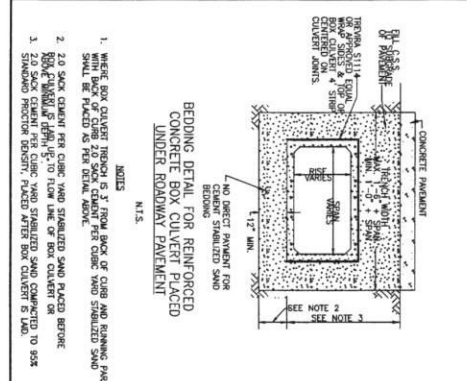
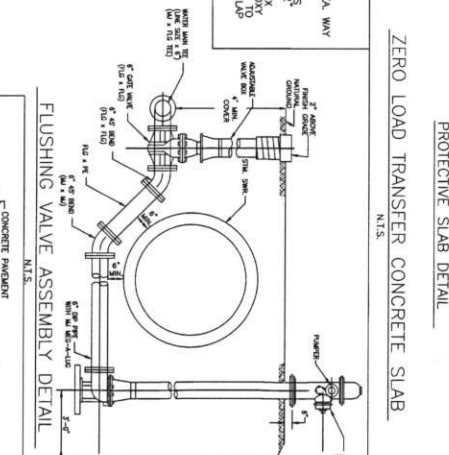
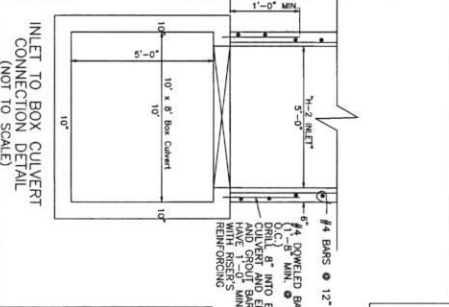
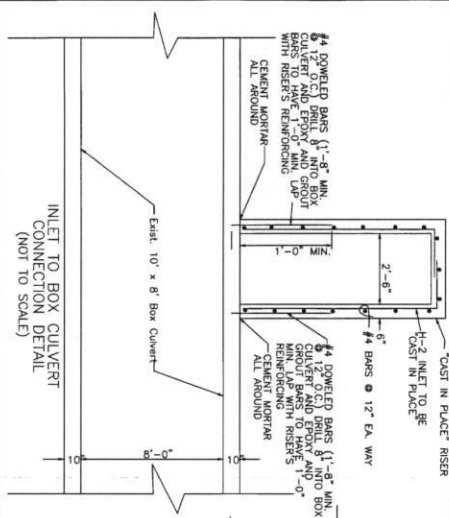
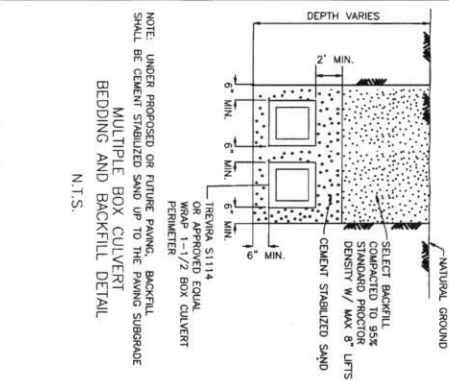
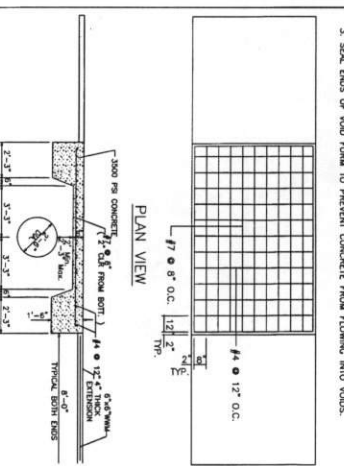
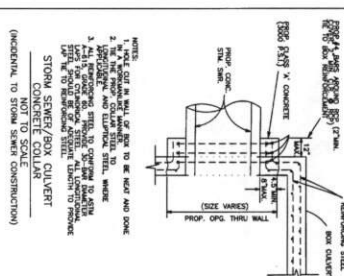
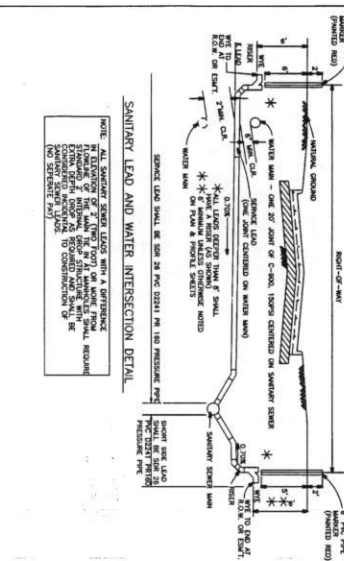
APPROVED: *(Signature)*
DATE: 1/24/17
PROJECT NO. 14-09-22

FOR: _____

DATE: _____



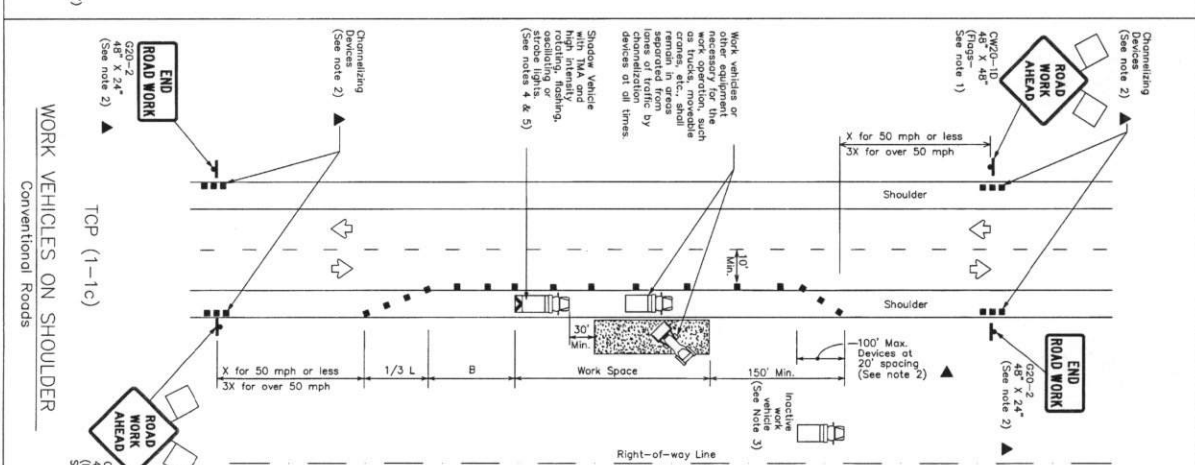
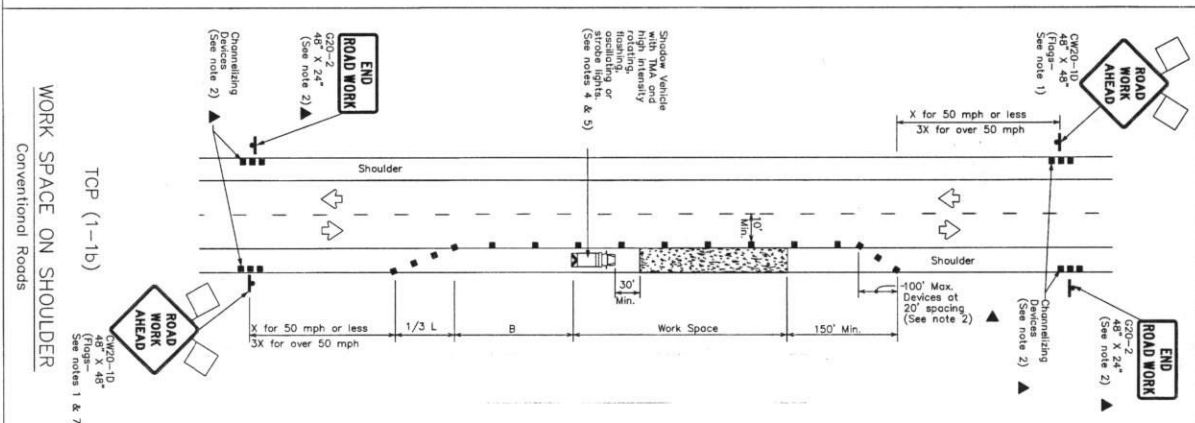
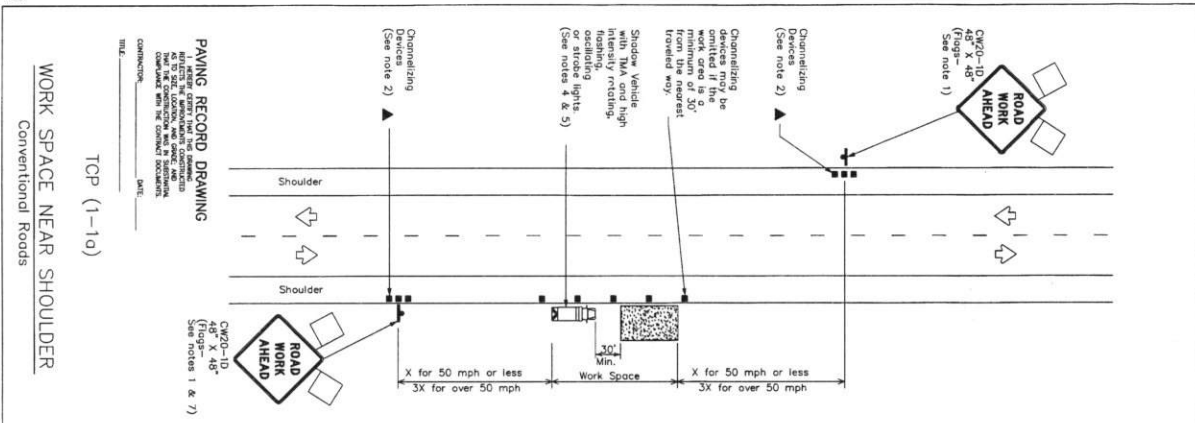
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936" - 942"	0" - 6"	500	40	CLASS 200	936" (CLASS 200)
942" - 948"	0" - 6"	500	40	CLASS 200	942" (CLASS 200)



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DATE: _____

FILE:



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

Posted Formula *	Dominoes Top Lengths 12 11 10 9 8 7 6 5 4 3 2 1	Suggested Clustering Distance	Minimum Suggested Longitudinal Spacing Between Buffs *
30	150 ¹ 165 ¹ 180 ¹	30 ¹	60 ¹
35	205 ² 225 ²	35 ²	70 ²
40	265 ³ 295 ³ 330 ³	40 ³	80 ³
45	325 ⁴ 355 ⁴ 390 ⁴	45 ⁴	90 ⁴
50	500 ⁵ 550 ⁵ 600 ⁵	50 ⁵	100 ⁵
55	500 ⁵ 600 ⁵ 660 ⁵	55 ⁵	110 ⁵
60	500 ⁵ 600 ⁵ 720 ⁶	60 ⁶	120 ⁶
65	650 ⁶ 715 ⁶ 780 ⁶	65 ⁶	130 ⁶
70	700 ⁷ 840 ⁷	70 ⁷	140 ⁷
75	750 ⁷ 825 ⁷ 900 ⁷	75 ⁷	150 ⁷

** Taper lengths have been rounded off.

L=Length of Taper(FT) W=Width of Offset(FT) S=Posted Speed(MPH)

GENERAL NOTES

1. Signs attached to signs where shown are REQUIRED.
2. All traffic control devices illustrated are REQUIRED, except those indicated otherwise.
3. Signs for use in the zone of advance for a particular type of work are in the plans, or for routine maintenance work, when approved by the Engineer.
4. Inactive work vehicle or other equipment should be parked near the work zone.
5. Work of a type that will not be passed on the posted shoulder, or on the posted advance warning sign, shall be indicated by the posted sign on the right side of the road. Signs on the left side of the road may be positioned 30 to 100 feet in advance of the zone of work, except when not otherwise affecting the performance or quality of the work. If workers are no longer present but road or work conditions require the traffic control signs to be maintained for the duration of the work, the following signs may be substituted for the advance warning signs: 1. **ROAD WORK AHEAD**—for shoulder work on divided highways, expressways and toll roads. 2. **ROAD WORK AHEAD**—for shoulder work on conventional roadways.
6. **ROAD WORK AHEAD**—signs may be used in place of **CAD-10** and **CAD-11** signs for shoulder work on conventional roadways.

For construction or maintenance contract work, specific project requirements for shadow vehicles can be found in the project GENERAL NOTES for Item 502, Barricades, Signs and Traffic Handling.

Texas Department of Transportation
Traffic Operations Division

TRAFFIC CONTROL PLAN CONVENTIONAL ROAD SHOULDER WORK

TCP(1-1)-12

[illegible]

CAG
7/24/17

TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

Reduced speeds should only be posted in the vicinity of work activity and not throughout the entire project. Regulatory work zone speed signs (W2-1) and (W2-2) should be placed at the beginning and end of the work zone.

WORK ZONE SPEED LIMIT SIGNS

1. Regulatory Work Zone Speed Limit (W2-1) and (W2-2) signs should be placed at the beginning and end of the work zone.
2. Advance Warning Signs (W2-3) should be placed at the beginning of the work zone.
3. Temporary Traffic Control (TTC) signs (W2-4) and (W2-5) should be placed at the beginning and end of the work zone.
4. The speed limit should be reduced to the posted speed limit during the work zone.
5. The speed limit should be restored to the normal speed limit after the work zone.

LEGEND

Symbol	Description
W2-1	Regulatory Work Zone Speed Limit
W2-2	Regulatory Work Zone Speed Limit
W2-3	Advance Warning Sign
W2-4	Temporary Traffic Control Sign
W2-5	Temporary Traffic Control Sign

BARRICADE AND CONSTRUCTION STANDARD

1. PURPOSE

The purpose of this standard is to provide a uniform method for the design and construction of barricades and construction signs for use on the State Highway System.

2. SCOPE

This standard applies to all projects on the State Highway System that require the use of barricades and construction signs.

3. REFERENCES

The following references are included in this standard:

- AASHTO Manual of Practice, 1990 Edition
- California Manual of Uniform Traffic Control Devices, 2003 Edition
- California Standard Specifications for Highway Construction, 2003 Edition

4. DESIGN CRITERIA

The design criteria for barricades and construction signs are as follows:

- 4.1. All signs and markers shall be designed to be visible from a distance of at least 1,000 feet.
- 4.2. All signs and markers shall be designed to be durable and long-lasting.
- 4.3. All signs and markers shall be designed to be easy to install and remove.
- 4.4. All signs and markers shall be designed to be easy to maintain.
- 4.5. All signs and markers shall be designed to be easy to replace.

5. MATERIALS

The materials for barricades and construction signs shall be as follows:

- 5.1. Signs shall be made of aluminum or steel.
- 5.2. Markers shall be made of reflective plastic or glass.
- 5.3. Barricades shall be made of concrete or steel.

6. CONSTRUCTION

The construction of barricades and construction signs shall be as follows:

- 6.1. Signs shall be placed at the beginning and end of the work zone.
- 6.2. Markers shall be placed at the beginning and end of the work zone.
- 6.3. Barricades shall be placed at the beginning and end of the work zone.

7. MAINTENANCE

The maintenance of barricades and construction signs shall be as follows:

- 7.1. Signs and markers shall be inspected regularly.
- 7.2. Signs and markers shall be replaced as needed.
- 7.3. Barricades shall be replaced as needed.

8. LEGEND

Symbol	Description
W2-1	Regulatory Work Zone Speed Limit
W2-2	Regulatory Work Zone Speed Limit
W2-3	Advance Warning Sign
W2-4	Temporary Traffic Control Sign
W2-5	Temporary Traffic Control Sign

TYPICAL APPLICATION OF WORK ZONE SPEED LIMIT SIGNS

Reduced speeds should only be posted in the vicinity of work activity and not throughout the entire project. Regulatory work zone speed signs (W2-1) and (W2-2) should be placed at the beginning and end of the work zone.

WORK ZONE SPEED LIMIT SIGNS

1. Regulatory Work Zone Speed Limit (W2-1) and (W2-2) signs should be placed at the beginning and end of the work zone.
2. Advance Warning Signs (W2-3) should be placed at the beginning of the work zone.
3. Temporary Traffic Control (TTC) signs (W2-4) and (W2-5) should be placed at the beginning and end of the work zone.
4. The speed limit should be reduced to the posted speed limit during the work zone.
5. The speed limit should be restored to the normal speed limit after the work zone.

LEGEND

Symbol	Description
W2-1	Regulatory Work Zone Speed Limit
W2-2	Regulatory Work Zone Speed Limit
W2-3	Advance Warning Sign
W2-4	Temporary Traffic Control Sign
W2-5	Temporary Traffic Control Sign

BARRICADE AND CONSTRUCTION STANDARD

1. PURPOSE

The purpose of this standard is to provide a uniform method for the design and construction of barricades and construction signs for use on the State Highway System.

2. SCOPE

This standard applies to all projects on the State Highway System that require the use of barricades and construction signs.

3. REFERENCES

The following references are included in this standard:

- AASHTO Manual of Practice, 1990 Edition
- California Manual of Uniform Traffic Control Devices, 2003 Edition
- California Standard Specifications for Highway Construction, 2003 Edition

4. DESIGN CRITERIA

The design criteria for barricades and construction signs are as follows:

- 4.1. All signs and markers shall be designed to be visible from a distance of at least 1,000 feet.
- 4.2. All signs and markers shall be designed to be durable and long-lasting.
- 4.3. All signs and markers shall be designed to be easy to install and remove.
- 4.4. All signs and markers shall be designed to be easy to maintain.
- 4.5. All signs and markers shall be designed to be easy to replace.

5. MATERIALS

The materials for barricades and construction signs shall be as follows:

- 5.1. Signs shall be made of aluminum or steel.
- 5.2. Markers shall be made of reflective plastic or glass.
- 5.3. Barricades shall be made of concrete or steel.

6. CONSTRUCTION

The construction of barricades and construction signs shall be as follows:

- 6.1. Signs shall be placed at the beginning and end of the work zone.
- 6.2. Markers shall be placed at the beginning and end of the work zone.
- 6.3. Barricades shall be placed at the beginning and end of the work zone.

7. MAINTENANCE

The maintenance of barricades and construction signs shall be as follows:

- 7.1. Signs and markers shall be inspected regularly.
- 7.2. Signs and markers shall be replaced as needed.
- 7.3. Barricades shall be replaced as needed.

8. LEGEND

Symbol	Description
W2-1	Regulatory Work Zone Speed Limit
W2-2	Regulatory Work Zone Speed Limit
W2-3	Advance Warning Sign
W2-4	Temporary Traffic Control Sign
W2-5	Temporary Traffic Control Sign

APPROVED: *[Signature]*
 DATE: 11/24/17

FOR: ROAD COUNTY ENGINEERING DEPARTMENT

PROJECT: SIENNA PARKWAY AND SCANLAN TRACE EAST

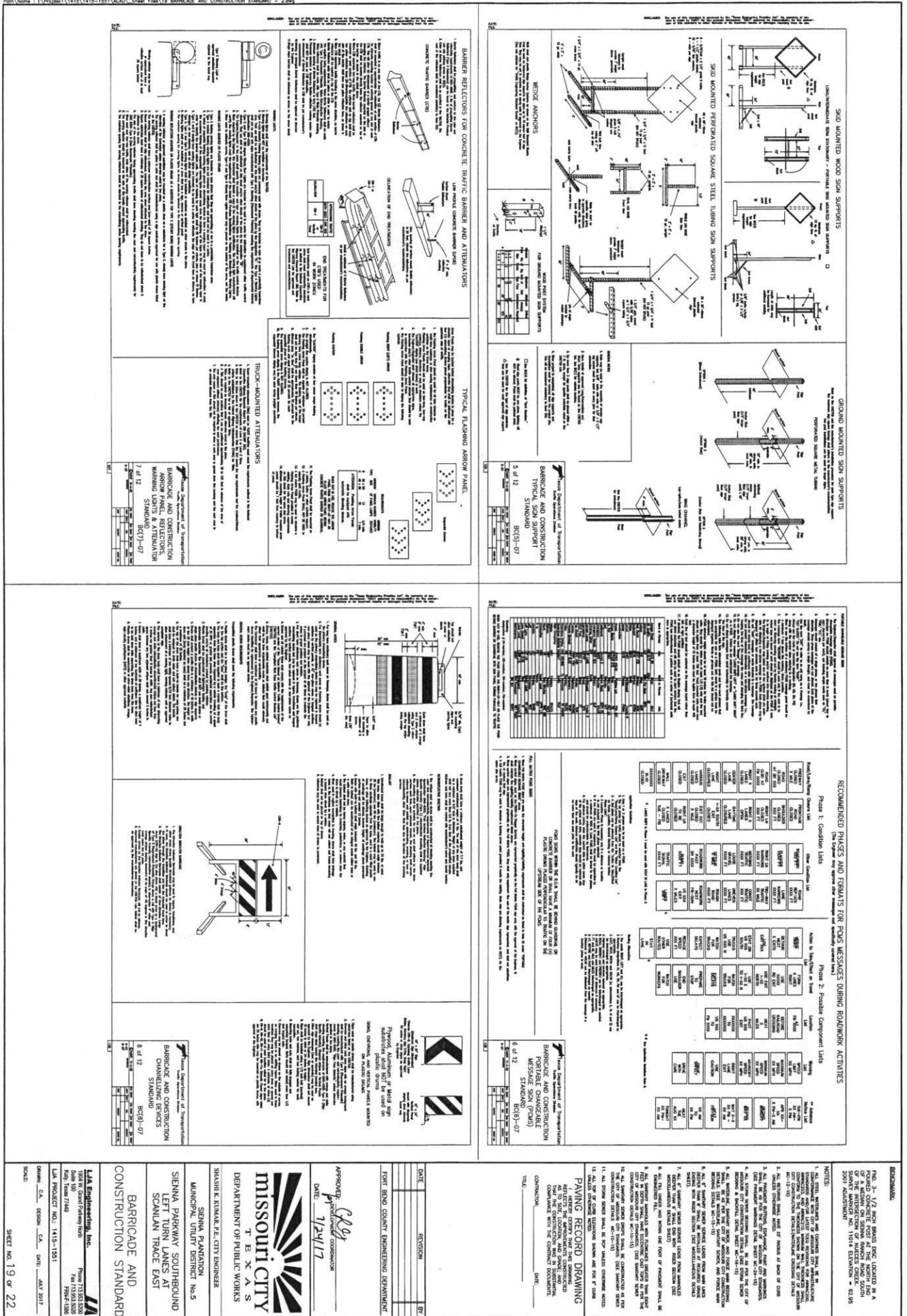
PROJECT NO: 1415-1351

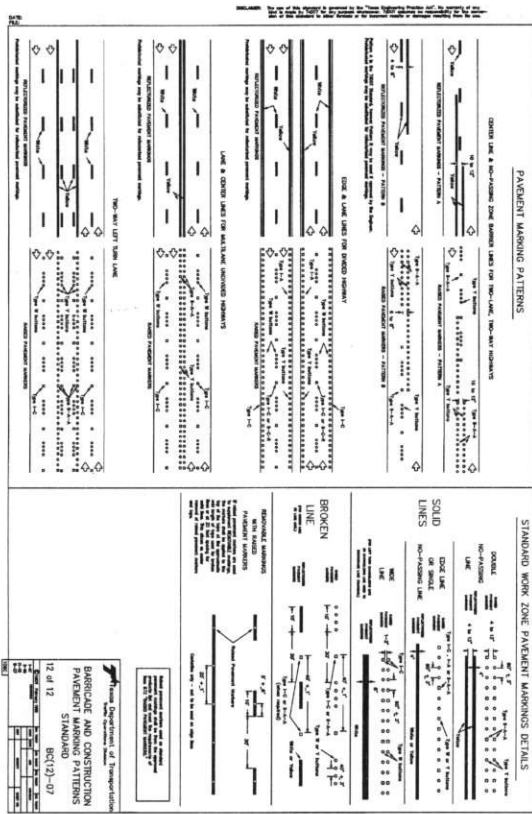
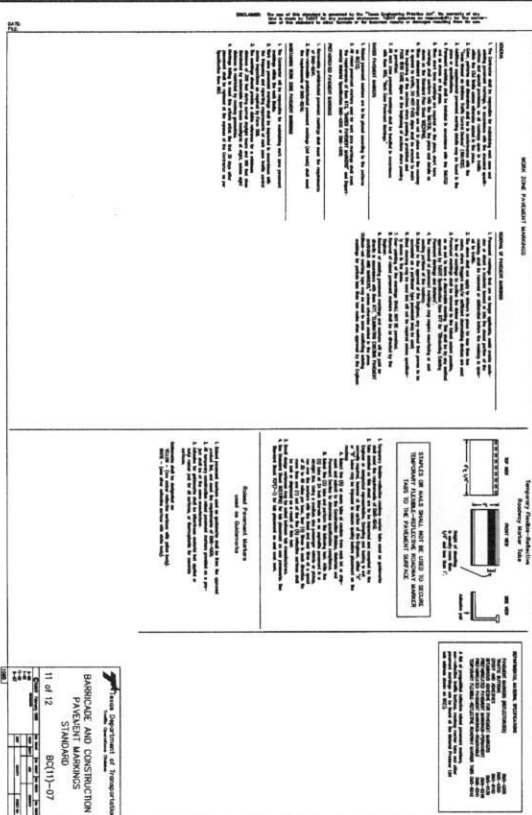
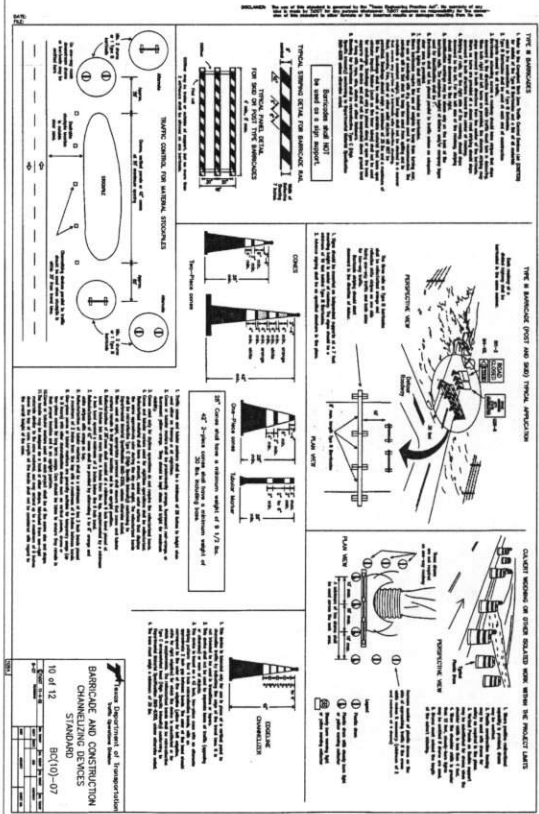
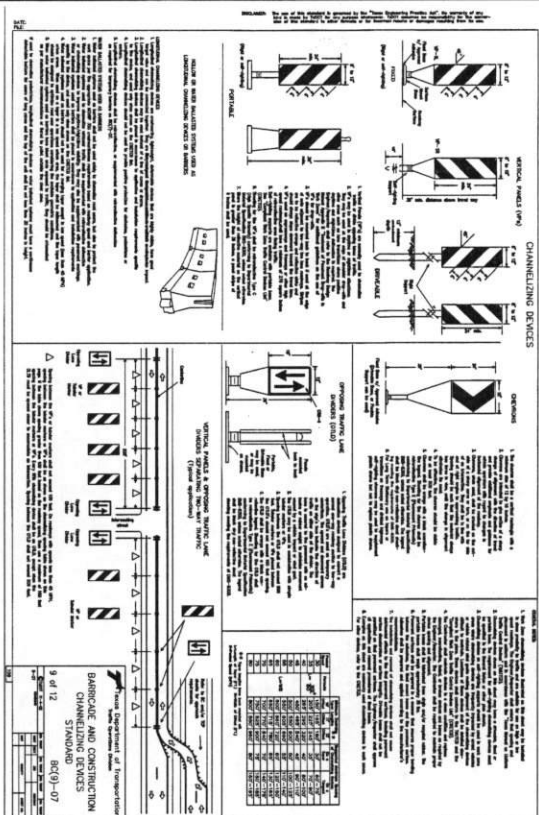
DATE: 11/24/17

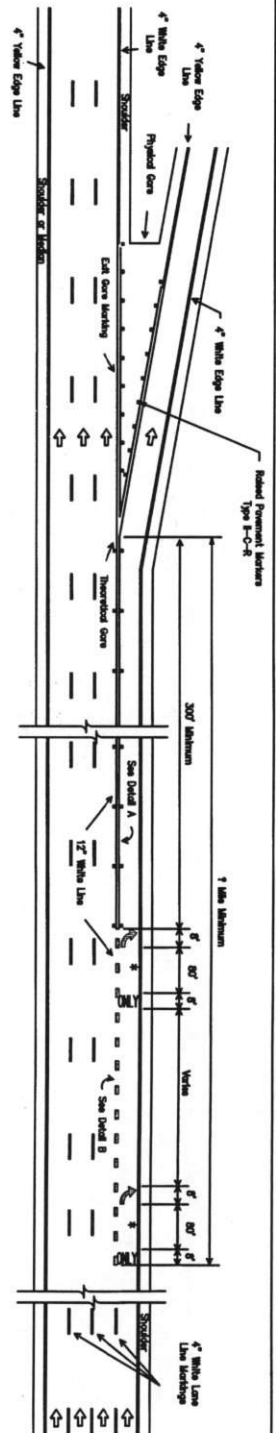
SCALE: 1" = 10'

LEGEND

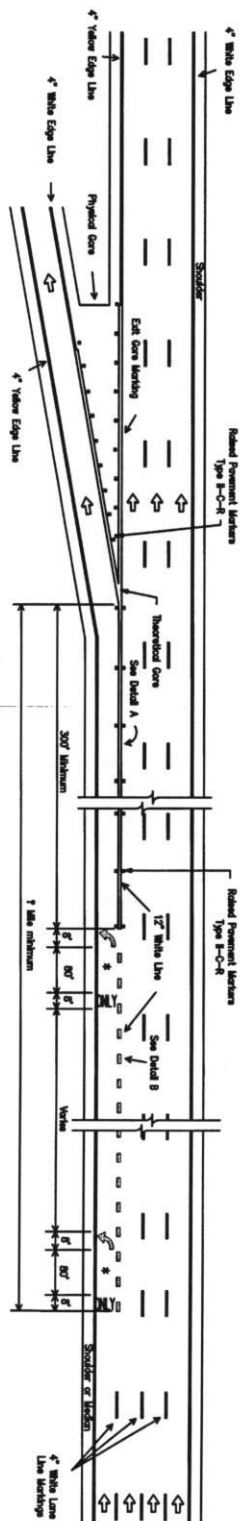
Symbol	Description
W2-1	Regulatory Work Zone Speed Limit
W2-2	Regulatory Work Zone Speed Limit
W2-3	Advance Warning Sign
W2-4	Temporary Traffic Control Sign
W2-5	Temporary Traffic Control Sign





[illegible]



SINGLE LANE EXIT - LANE DROP OR EXIT ONLY



SINGLE LANE EXIT - LANE DROP OR EXIT ONLY (LEFTHAND)

LEGEND	
	Permittee direction of traffic.
	Permitted moving arrows (walks)
*	Arrow markings are optional, however "ONLY" is required if arrow is used

GENERAL NOTES

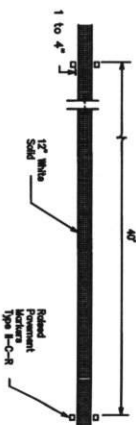
1. Pavement markings shall be white except as otherwise noted.
2. Length of 12" white line may vary depending on location.
3. While (12") Dotted Line (See Detail B) is used to separate a through lane from a lane with normal left ramp and from an auxiliary lane between an entrance and exit ramp.

PAYING RECORD DRAWING

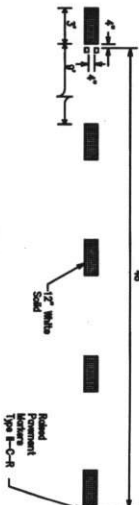
REFLECTS THE IMPROVEMENTS CONSTRUCTED AS TO SIZE, LOCATION, AND GRADE, AND THAT THE CONSTRUCTION WAS IN SUBSTANTIAL CONFORMANCE WITH THE CONTRACT DOCUMENTS.

THE

1



DETAIL A



DETAIL B

Wide (12") Dotted Lane Line (See Note 3)

MATERIAL SPECIFICATIONS	
PAYMENT MARKERS (SELECTORIZED)	DMS-4200
SPROUT AND ADHESIVES	DMS-6100
STIMULANS ADHESIVE FOR PAYMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAYMENT MARKERS	DMS-8240

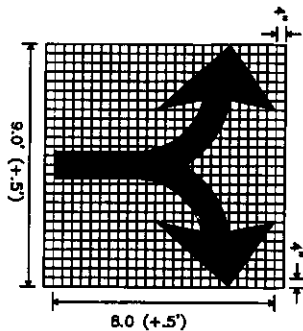
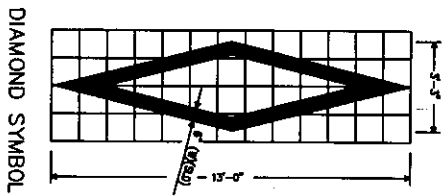
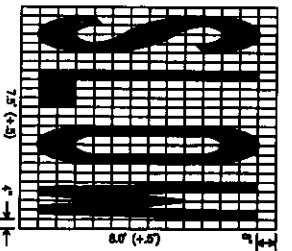
All pavement marking materials shall meet the required Departmental Material Specifications as specified by the plans.

Texas Department of Transportation
Traffic Operations Division

**TYPICAL STANDARD
FREEMAY PAYEMENT MARKINGS
LANE DROP (EXIT ONLY) EXIT RAMPS**

	APR 1982	NO. REPORT	CN. REPORT	NO. REPORT	CN. REPORT
RESEARCH		COURT	JURY	ADJ.	INVESTIG.
6-00				1415-1551	
8-00					SHEET NO.
2-10		CONF			
2-12					
23C					21 OF 22

CPD 7/24/17



DIAMOND SYMBOL

PM(WAS)-07

PAVEMENT MARKINGS
(WORDS, ARROWS & SYMBOLS)

Texas Department of Transportation
Houston District

SCALE 1" = 1'

F/L						DATE	
① ADOT 2007							
REVISED 03-19-07							
SA	CN	PR	CH				
087	700						BEST
HOU	8	1415-1551					
QUALITY		CORRECT	ADG	430			IMPROV
				22 OF 2			