

REVIEW BY FORT BEND COUNTY COMMISSIONERS COURT

On this 13 day of OCTOBER, 2009, before the Fort Bend Commissioners Court came on to be heard and reviewed the accompanying notice of CONSTRUCTION SUPERVISORS, INC.

Job Location FRY ROAD

Dated 10/06/09 BOND NO. 46BSBEV3214 Permit No. 83692

to make use of certain Fort Bend County property subject to, "A Revised 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, date the 3rd day of August, 1987, recorded in Volume _____ of the Minutes of the Commissioners Court of Fort Bend County, Texas, to the extent that such order is not inconsistent with Article 1436a, Vernon's Texas Civil Statues. Upon Motion of Commissioner Meyers, seconded by Commissioner Patterson, duly put and carried, it is ORDERED, ADJUGED 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.

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

Mail notices to: Permit Administrator
Fort Bend County Engineering
P.O. Box 1449
Rosenberg, Texas 77471
281-633-7500

3. This permit expires one (1) year from date of permit if construction has not commenced.

By [Signature]
County Engineer

Presented to Commissioners Court and approved.

Recorded in Volume 10-13-09 Minutes of Commissioners Court.

By N/A
Drainage District Engineer/Manager

Clerk of Commissioners Court

By [Signature]
Deputy

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

AUTHORIZED
BOND NO 46BSBEV3214

THE STATE OF TEXAS §

KNOW ALL MEN BY THESE PRESENTS:

COUNTY OF FORT BEND §

THAT WE, Construction Supervisors, Inc. whose address is 4545 Bissonnet, Suite 110, Bellaire, TX 77401, Texas, hereinafter called the Principal, and Hartford Casualty Insurance Company, a Corporation existing under and by virtue of the laws of the State of Indiana and authorized to do an indemnifying business in the State of Texas, and whose principal office is located at 690 Asylum Ave., Hartford, CT 06115, whose officer residing in the State of Texas, authorized to accept service in all suits and actions brought within said State is Mike Heidrick and whose address is 3000 Internet Blvd., Suite 600, Frisco, TX 75034, 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 Fifty-six Thousand, Eight Hundred Seventy-five and 75/100 Dollars (\$ 56,875.75) 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 5th day of October, 2009

Construction Supervisors, Inc.
PRINCIPAL

BY

Carol Carter
Carol Carter,
Secretary-Treasurer

Hartford Casualty Insurance Company

SURETY

Ashley Britt Russell
BY Ashley Britt Russell, Attorney-in-Fact

POWER OF ATTORNEY

Direct Inquiries/Claims to:

THE HARTFORD
BOND, T-4
P.O. BOX 2103, 690 ASYLUM AVENUE
HARTFORD, CONNECTICUT 06115
call: 888-266-3488 or fax: 860-757-5835

KNOW ALL PERSONS BY THESE PRESENTS THAT:

Agency Code: 61-613558, 46-504809, 46-507142, 43-483850, 46-505579

- Hartford Fire Insurance Company, a corporation duly organized under the laws of the State of Connecticut
- Hartford Casualty Insurance Company, a corporation duly organized under the laws of the State of Indiana
- Hartford Accident and Indemnity Company, a corporation duly organized under the laws of the State of Connecticut
- Hartford Underwriters Insurance Company, a corporation duly organized under the laws of the State of Connecticut
- Twin City Fire Insurance Company, a corporation duly organized under the laws of the State of Indiana
- Hartford Insurance Company of Illinois, a corporation duly organized under the laws of the State of Illinois
- Hartford Insurance Company of the Midwest, a corporation duly organized under the laws of the State of Indiana
- Hartford Insurance Company of the Southeast, a corporation duly organized under the laws of the State of Florida

having their home office in Hartford, Connecticut, (hereinafter collectively referred to as the "Companies") do hereby make, constitute and appoint, up to the amount of unlimited:

David G. Miclette, Sam F. Bowen, Edward G. Britt, Jr., Kristi Lovett, Barry K. McCord, Vickie Byus, Ashley Britt Russell, Robert C. Davis, David T. Miclette, Laura Lively, Michael Tubbs, Susan Zapalowski, Rita G. Gulizo of Houston, TX, Fort Smith, AR and New Orleans, LA

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

In Witness Whereof, and as authorized by a Resolution of the Board of Directors of the Companies on January 22, 2004 the Companies have caused these presents to be signed by its Assistant Vice President and its corporate seals to be hereto affixed, duly attested by its Assistant Secretary. Further, pursuant to Resolution of the Board of Directors of the Companies, the Companies hereby unambiguously affirm that they are and will be bound by any mechanically applied signatures applied to this Power of Attorney.



Scott Sadowsky

Scott Sadowsky, Assistant Secretary

M. Ross Fisher

M. Ross Fisher, Assistant Vice President

STATE OF CONNECTICUT }
COUNTY OF HARTFORD } ss. Hartford

On this 3rd day of March, 2008, before me personally came M. Ross Fisher, to me known, who being by me duly sworn, did depose and say: that he resides in the County of Hartford, State of Connecticut; that he is the Assistant Vice President of the Companies, the corporations described in and which executed the above instrument; that he knows the seals of the said corporations; that the seals affixed to the said instrument are such corporate seals; that they were so affixed by authority of the Boards of Directors of said corporations and that he signed his name thereto by like authority.



CERTIFICATE

Scott E. Paseka

Scott E. Paseka
Notary Public
My Commission Expires October 31, 2012

I, the undersigned, Assistant Vice President of the Companies, DO HEREBY CERTIFY that the above and foregoing is a true and correct copy of the Power of Attorney executed by said Companies, which is still in full force effective as of *October 5, 2009.*
Signed and sealed at the City of Hartford.



Gary W. Stumper

Gary W. Stumper, Assistant Vice President

**NOTICE OF PROPOSED CABLE, CONDUIT AND/OR POLE LINE ACTIVITY
IN, UNDER, ACROSS OR ALONG ROADS, STREETS, HIGHWAYS AND DRAINAGE DITCHES
IN FORT BEND COUNTY**

APPLICANT'S JOB NO. _____
 PERMIT No. 83692 PCT. No. 3
 BOND No. 46BSBEV3214

Formal notice is hereby given that _____
 proposes to lay, construct, maintain and/or repair cable, conduit and/or pole line, in, under,
 across, or along roads, streets, highways and drainage ditches in Fort Bend County, as follows:

In, Under, or Across Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	Length of Crossing	Type of Construction			
			Bored	Jacked	Driven	Cased
S. Fry Rd.	370' East of Seven Meadows	105'	X			
S. Fry Rd.	379' East of Seven Meadows	93'	X			
;	;	;	;	;	;	;

Along Roads and/or Drainage Ditches

Road or Ditch Name	Distance & Direction From Nearest Intersection	To	Distance
S. Fry Rd.	400' East of Seven Meadows	330' East of Seven Meadows	70'
;	;	;	;
;	;	;	;

General Description

Traffic Signal Installation; including poles, foundations, and conduits

The Location and description of the proposed installation and appurtenances is more fully shown on the attached detail drawings. The laying, construction, maintenance and/or repair of the proposed installation shall be subject to "A Revised Order Regulating the Laying, Construction, Maintenance and/or Repair of Cables, Conduits, and/or 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 Commissioners Court of Fort Bend County, Texas, dated the 3rd. day of August, 1987, recorded in Volume 639 of the Minutes of the Commissioners Court of Fort Bend County, Texas.

Written notices are required: 1) 48 hours in advance of start of construction and
 2) when construction is complete and ready for final inspection.

Mail to: Permit Administrator/Fort Bend County Engineering
 P.O. Box 1449, Rosenberg, TX 77471.

Violation of requirements shall constitute grounds for job shut down.

COMPANY NAME: Construction Supervisors, Inc.
 AGENT and/or OWNER

<p>Does project comply with Fort Bend County Outdoor Lighting Ordinance?</p> <p>Yes ()</p> <p>No ()</p>
--

 (Signature)
 NAME & TITLE Mark Donoho, Superintendent
 (Please Print)
 DATE October 5, 2009
 ADDRESS 4545 Bissonnet, Suite 110
 (Street/P.O. Box)
Bellaire, TX 77401-3114
 City State Zip
 TELEPHONE NO: 713-667-0123
 (accessible 24 hrs/day, 7 days/week)

Plans for Construction of Traffic Signal Installation for the Intersection of **South Fry Rd at HEB/Home Depot Entrance** Fort Bend County, Texas

County Judge

Robert Hebert

County Commissioners

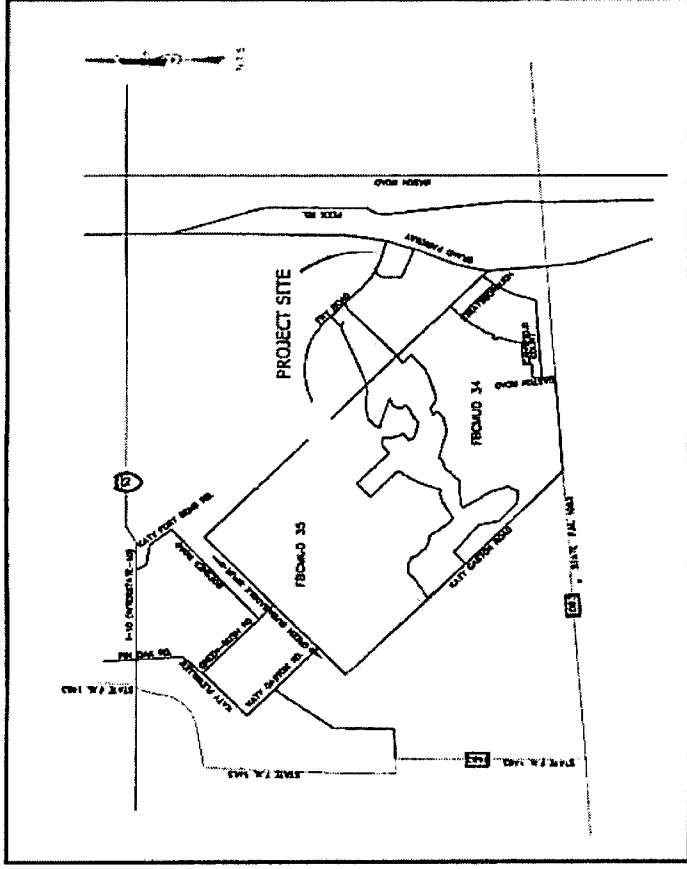
- Precinct 1 - Richard Morrison
- Precinct 2 - Grady Prestage
- Precinct 3 - Andy Meyers
- Precinct 4 - James Patterson

County Engineer

D. Jesse Hegemier, P.E.

County Auditor

Robert Ed Sturdivant



VICINITY MAP
FORT BEND COUNTY KEY MAP PAGES 484V, 484Z, 524D, 525E

CBE
Coastal Bend Engineering

319 Ezzell Street
Port Lavaca, Texas 77979
381-746-4197
TBE Reg. No. F-011084

Index of Drawings

- 1 TITLE SHEET
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- 7-8 SINGLE MAST ARM ASSEMBLIES
- 9-11 DUAL MAST ARM ASSEMBLIES
- 12 MAST ARM CONNECTIONS
- 13 MAST ARM DETAILS
- 14 SIGNAL POLE FOUNDATION DETAILS
- 15 LUMINAIRE ARM DETAILS
- 16-22 ELECTRICAL DETAILS
- 23-26 PAVEMENT MARKING DETAILS
- 27-29 PAVEMENT DETAILS
- 30-33 CURB RAMP AND SIDEWALK DETAILS
- 34-35 TRAFFIC CONTROL PLAN DETAILS

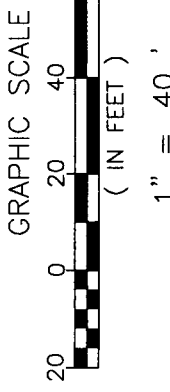
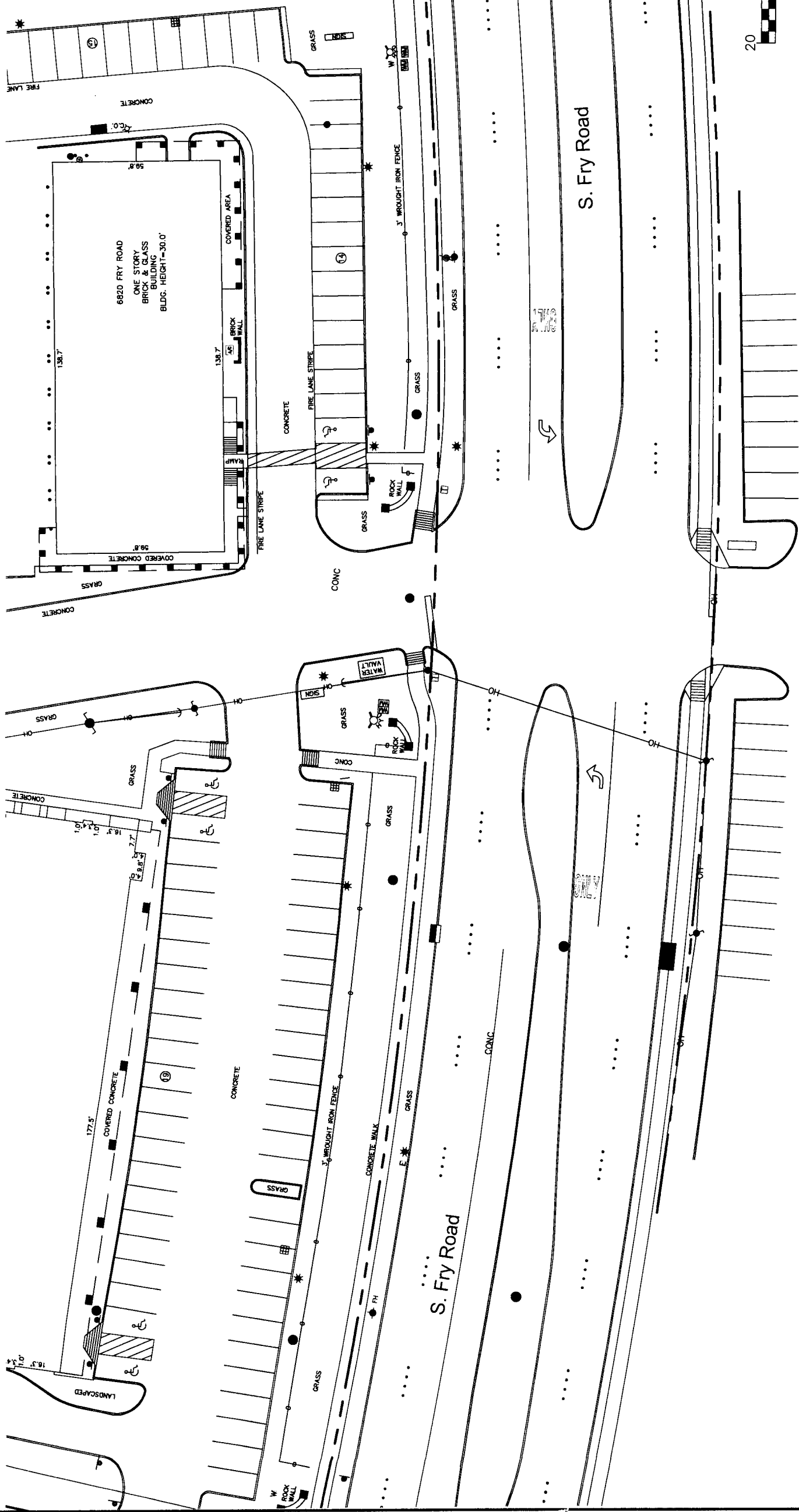
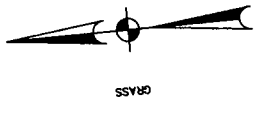
The standards listed above and contained in these plans have been reviewed by me and are applicable to this project.



This seal was authorized by
Victor E. Frederickson, P.E.
License No. 79728, on
September 28, 2009

Approved: *D. Jesse Hegemier* Date: 9/30/09
D. Jesse Hegemier, P.E.
County Engineer

- SYMBOL LEGEND**
- FIBER OPTIC CABLE/PIPELINE MARKER
 - COLUMN
 - METER POLE
 - TELEPHONE PEDESTAL
 - MANHOLE
 - SIGN
 - FIRE HYDRANT
 - WATER VALVE
 - TRAFFIC SIGNAL BOX
 - GRATE INLET
 - CURB INLET
 - TRAFFIC SIGNAL POLE
 - LIGHT STANDARD
 - WATER METER
 - UTILITY POLE
 - "C"-1" INLET
 - CABLE TELEVISION PEDESTAL
 - "BB" INLET
 - "B" INLET
 - GAS VALVE
 - MAILBOX
 - GUY ANCHOR



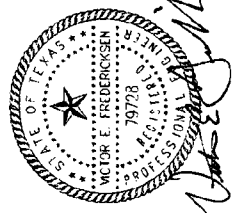
REV. NO.	DESCRIPTION	DATE	APP.

**South Fry Road at
HEB/Home Depot Driveway
Traffic Signal Installation**

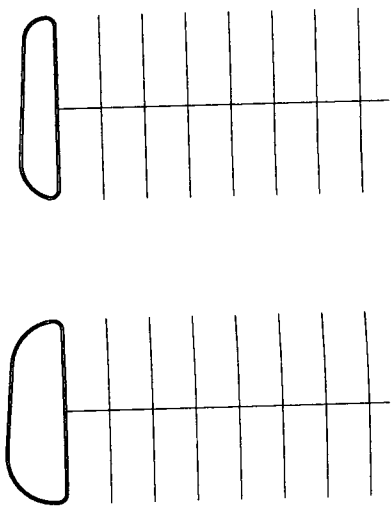
Existing Conditions

CBE Coastal Bend Engineering
319 Ezzell Street
Port Lavaca, Texas 77979
361-746-1197

DRAWN BY: VEF	SCALE:	CONTRACT:
CHECKED BY: VEF	DATE: SEPT. 2009	PROJECT NO.:
FILE NAME:	PLOT SCALE:	SHEET 2 OF 35

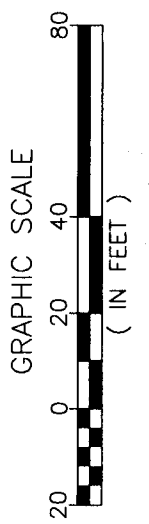
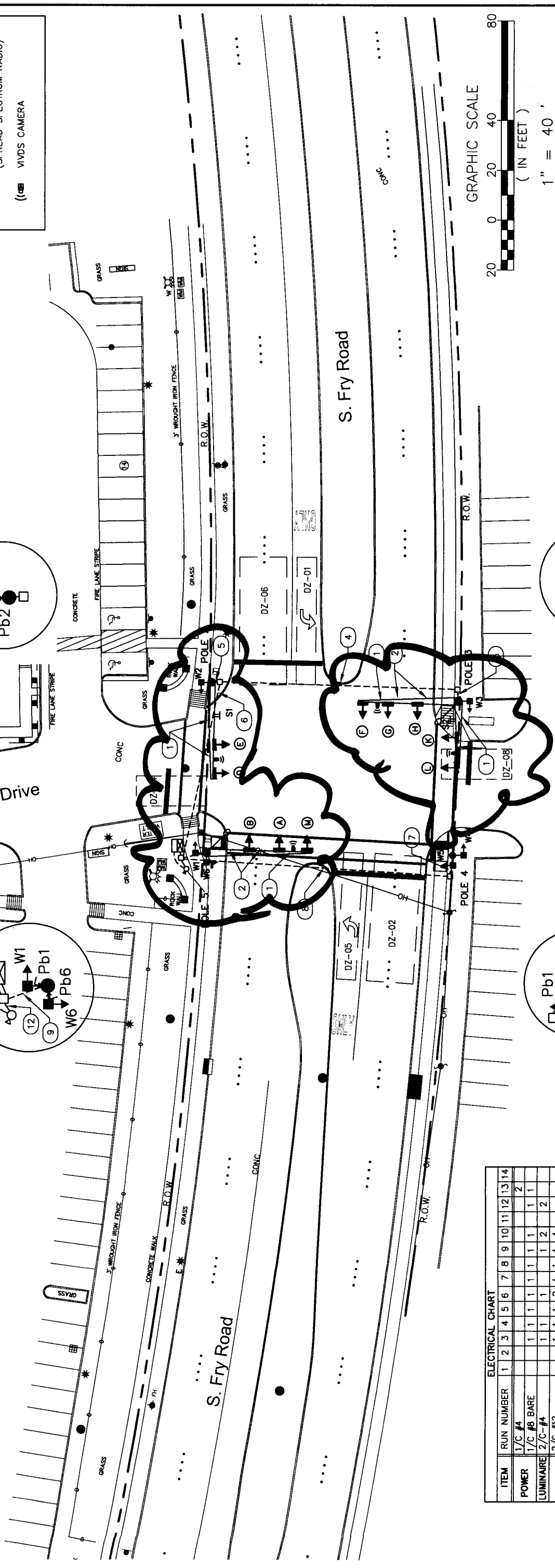
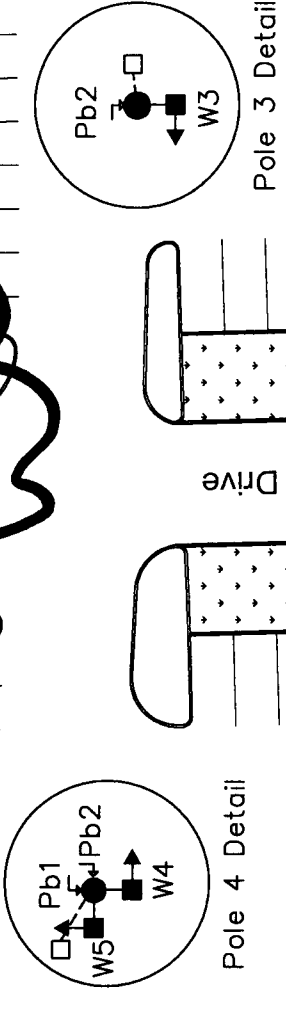
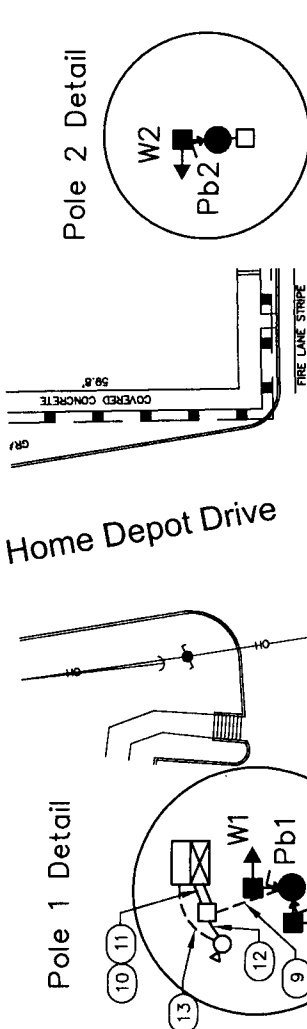
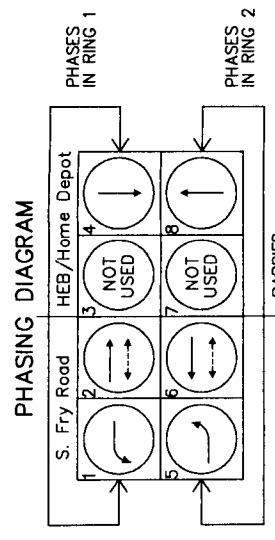


This seal was authorized by
Victor E. Fredericksen, P.E.
License No. 79728, on
September 28, 2009



LEGEND

[]	DETECTION ZONE
□	PULLBOX
⊕	SIGNAL HEAD
⊞	CONTROLLER
—	SIGNAL CONDUIT
○	POLE
○	LUMINAIRE
⊙	METER POLE WITH DISCONNECT
⊞	UNIDIRECTIONAL ANTENNA (SPREAD SPECTRUM RADIO)
(CBE)	VIVDS CAMERA



REV. NO.	DESCRIPTION	DATE	APP.

South Fry Road at
HEB/Home Depot Driveway
Traffic Signal Installation

Proposed Signal Layout
Sheet 1 of 2

CBE Coastal Bend Engineering
319 Ezell Street
Port Lavaca, Texas 77979
361-746-1197

DRAWN BY: VF SCALE: DATE: AUG 2009 PROJECT NO. CONTRACT:
CHECKED BY: VF DATE: AUG 2009 PROJECT NO. CONTRACT:
FILE NAME: PLOT SCALE: SHEET 3 OF 35

This seal was authorized by
Victor E. Fredericksen, P.E.
License No. 79728, on
September 28, 2009

ELECTRICAL CHART

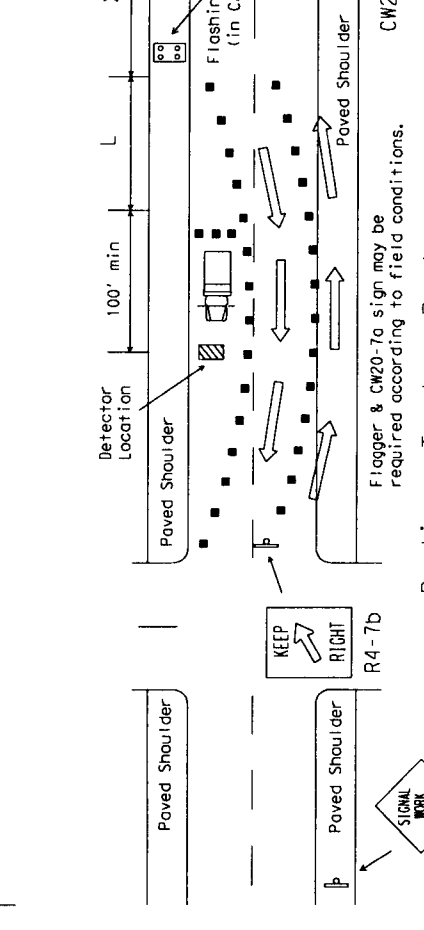
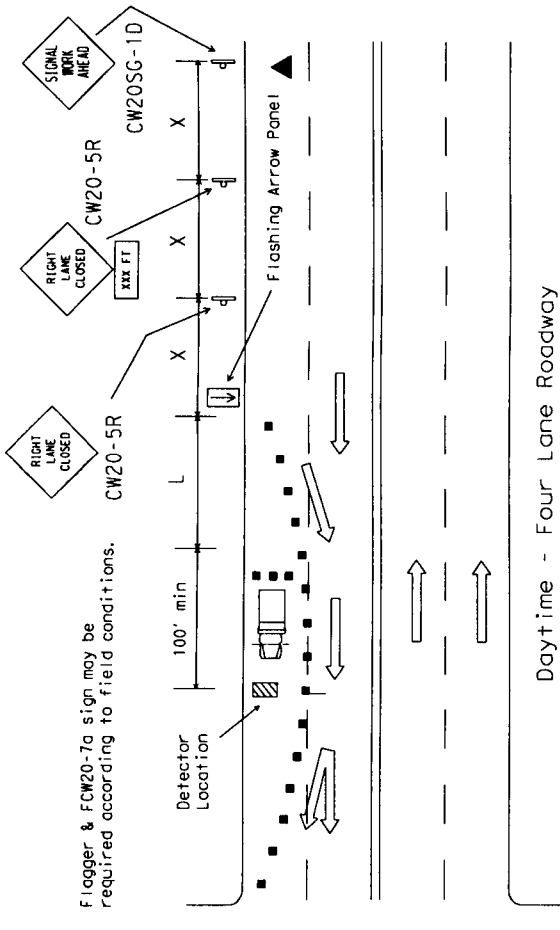
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POWER	1/C #4														
	1/C #8 BARE	1	1	1	1	1	1	1	1	1	1	1	1	1	1
LUMINAIRE	2/C #4														
	2/C #12	1	1	1	1	1	1	1	1	1	1	1	1	1	1
SIGNAL CABLE	4/C #12	1	1	1	1	1	1	1	1	1	1	1	1	1	1
	7/C #12	1	2	3	3	1	4	2	6						
VIVDS	COMM. CABLE	1	1	2	2	1	3	1	1	1	1	1	1	1	1
RADIO	COMM. CABLE														
	2" RM														
	3" RM	1	1	1	1	1	1	1	1	1	1	1	1	1	1
CONDUIT	4" RM														

POLE AND CONTROLLER CHART

POLE NO.	B.L. STA.	LOCATION	DESCRIPTION
1			30' STEEL POLE W/W1, W6, Pb1, Pb6, 40' MAST ARM, LUMINAIRE, ANTENNA, CAMERA
2			19' STEEL POLE W/W2, Pb2, 40' MAST ARM, CAMERA
3			30' STEEL POLE W/W3, Pb3, 40' MAST ARM, 24' MAST ARM, LUMINAIRE, CAMERA
4			15' STEEL PEDESTAL POLE WITH W4, W5, Pb4, Pb5
5			21' STEEL POLE W/METER & DISCONNECT
C.T.R.L.			NAZTEC NEMA CONTROLLER IN CABINET ON CONC. FOUND.

DISCLAIMER
 The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TxDOT for any purpose whatsoever. TxDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting from its use.

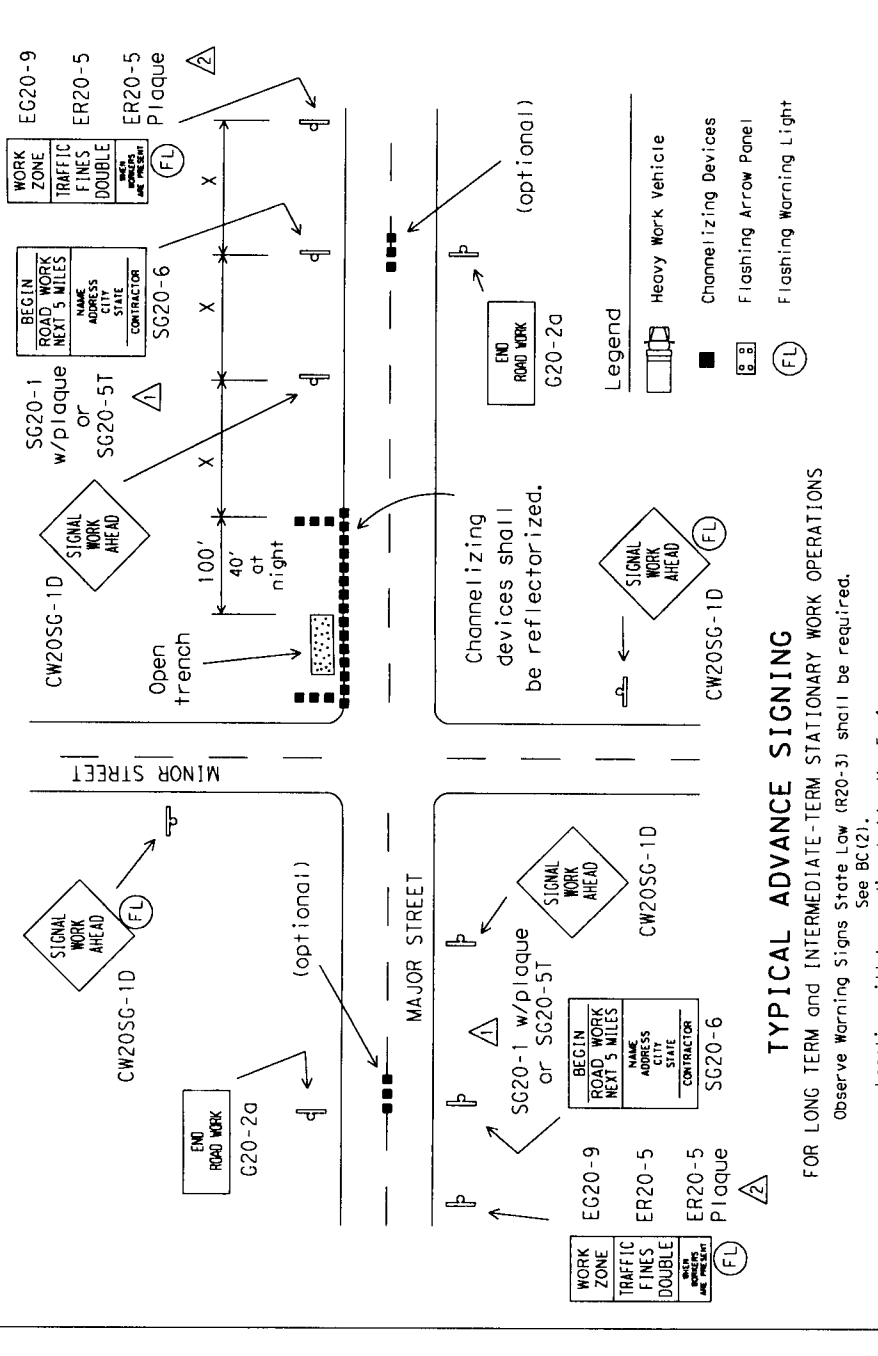
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Daytime - Four Lane Roadway
 Daytime - Two Lane Roadway
TYPICAL DETECTOR INSTALLATION
 OR OTHER WORK OPERATIONS THAT ARE SHORT TERM OR SHORT DURATION
 Nighttime Channelizing Devices shall be reflectorized.

Passed Speed	Formula	Minimum Desirable 10' Offset	Minimum Desirable 10' Offset	Suggested Maximum Spacing of Device	Minimum Spacing of Device
30	$L = WS^2 / 60$	150'	165'	30'	120'
35		205'	225'	35'	160'
40		265'	295'	40'	240'
45		450'	495'	45'	320'
50		500'	550'	50'	400'
55		550'	605'	55'	500'
60		600'	660'	60'	600'
65		650'	715'	65'	700'
70		700'	770'	70'	800'
75		750'	825'	75'	900'

**Taper lengths have been rounded off.
 L=Length of Taper (ft.) W=Width of Offset (ft.) S=Posted Speed (MPH)



TYPICAL ADVANCE SIGNING
 FOR LONG TERM and INTERMEDIATE-TERM STATIONARY WORK OPERATIONS
 Observe Warning Signs State Law (R20-3) shall be required.
 See BC(2).
 Location will be as directed by the Engineer.

1. Typical channelizing device is the 28" cone.
2. Plastic drums or vertical panels may be used if approved by the Engineer.
3. For several closely adjoining projects, advance signing may not be required in advance of each intersection, but only in advance of the intersections at the project limits.
4. See details elsewhere in the plans for advance signing requirements.
5. Advance signs shall be in place when signal construction operations are in progress.
6. The contractor shall remove advance signs when no construction operations are underway.
7. Obstructions or hazards at the work area shall be clearly marked and delineated at all times.
8. All holes, trenches or other hazardous areas shall be adequately protected by lights or other protective devices.
9. Trenches shall be covered or surrounded with orange plastic construction fence as directed by the Engineer.
10. Flagger and FCW20-7a sign may be required according to field conditions.
11. Vehicles parked in roadway shall be equipped with two strobes.
12. High level flags at corners of vehicle may also be used.
13. Work operations that require work vehicle in traveled way 20 minutes or less may use cones, high level flags and strobes as advance warning devices.
14. Cones should only be placed around vehicle.
15. Flagger's may be used on high speed rural intersections.

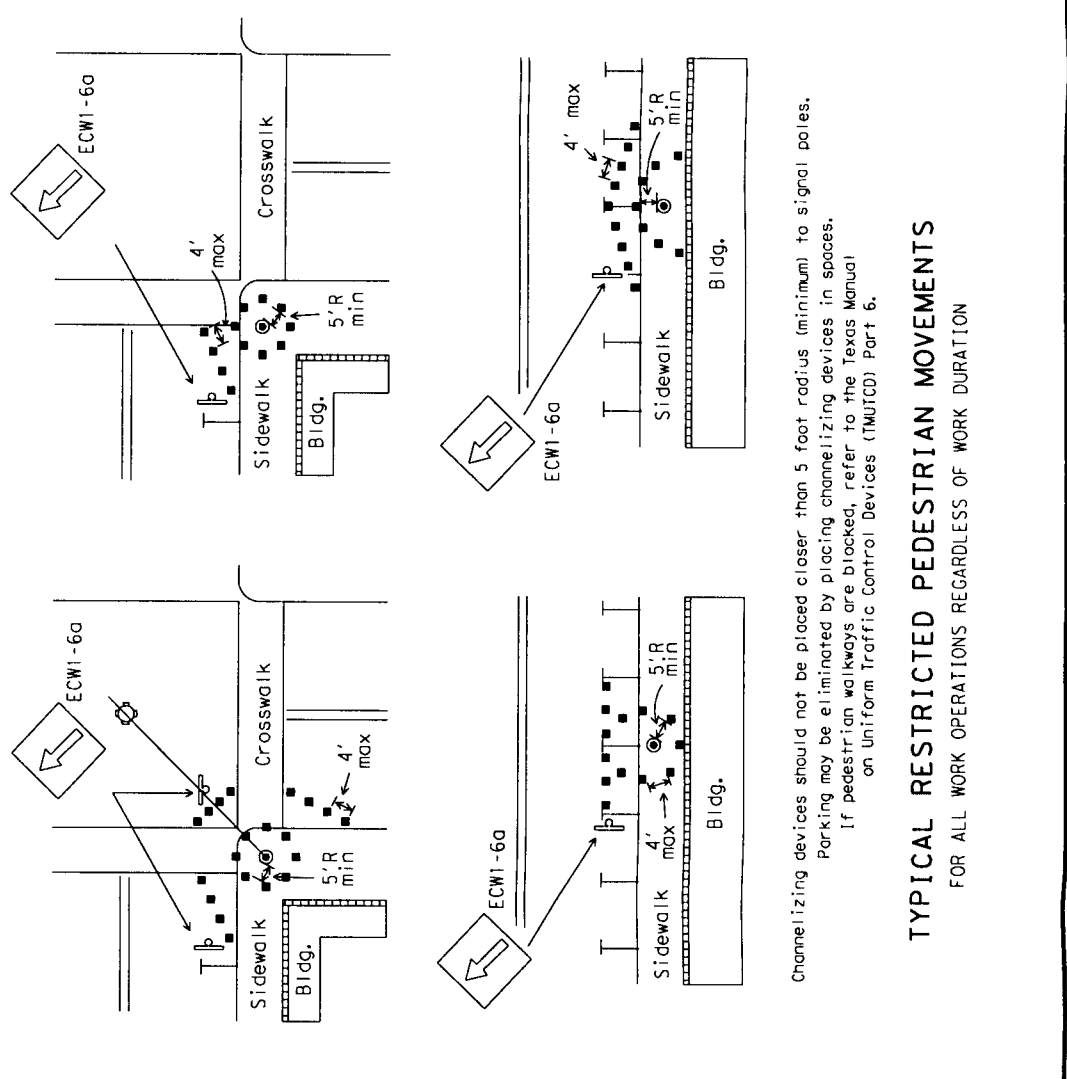
Texas Department of Transportation
 Traffic Operations Division

STANDARD PLANS
TRAFFIC SIGNAL
INSTALLATION
TYPICAL DETAILS

SHEET 1 OF 2 WZ (BTS-1) - 03

APPROVED: [Signature] DATE: 11/19/92
 DESIGNED: [Signature] DATE: 11/19/92
 CHECKED: [Signature] DATE: 11/19/92
 DRAWN: [Signature] DATE: 11/19/92

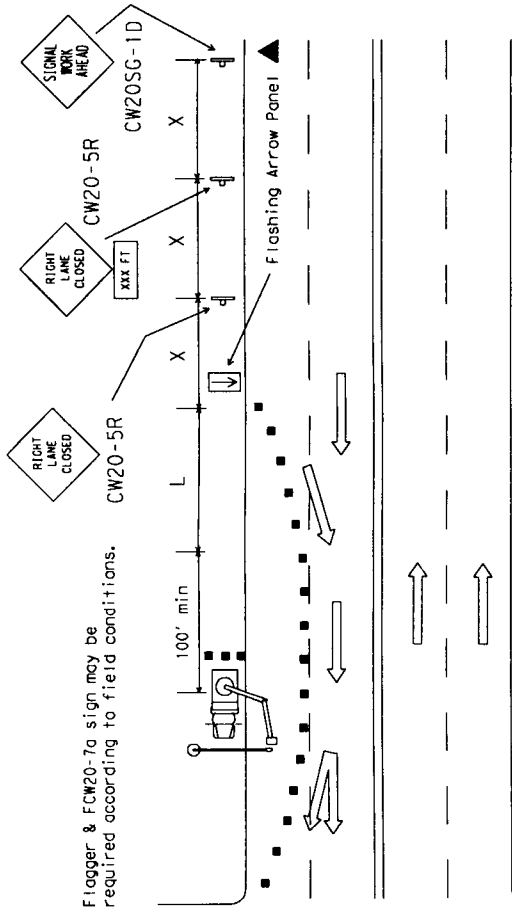
PROJECT: [Blank] COUNTY: [Blank] SECTION: [Blank] JOB: [Blank] DRAWING: [Blank]



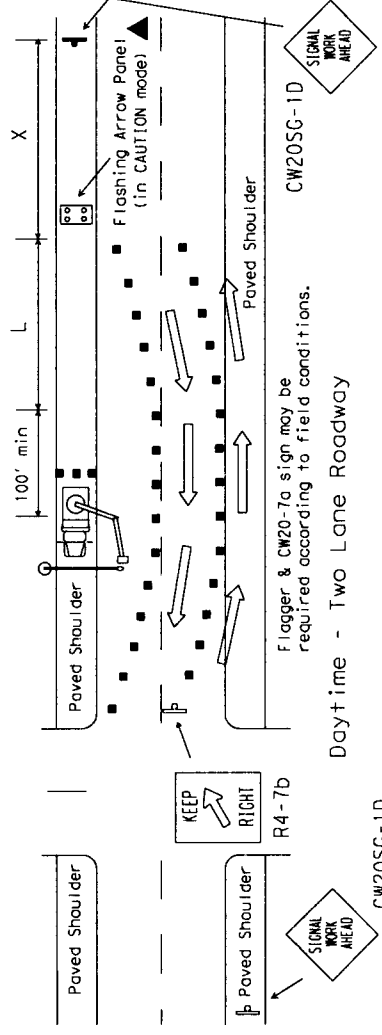
TYPICAL RESTRICTED PEDESTRIAN MOVEMENTS
 FOR ALL WORK OPERATIONS REGARDLESS OF WORK DURATION

Channelizing devices should not be placed closer than 5 foot radius (minimum) to signal poles.
 Parking may be eliminated by placing channelizing devices in spaces.
 If pedestrian walkways are blocked, refer to the Texas Manual on Uniform Traffic Control Devices (TMUCD) Part 6.

"ABOVE LANE" WORK PERFORMED BY BUCKET TRUCK



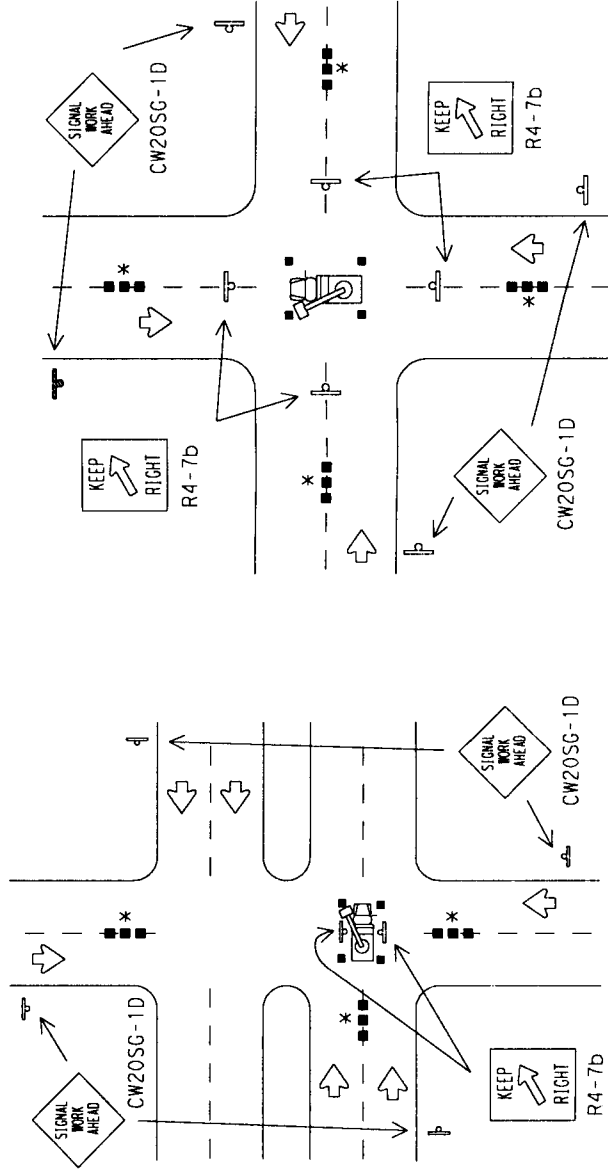
Daytime - Four Lane Roadway



Daytime - Two Lane Roadway

▲ The arrow panel may be omitted when stated elsewhere in the plans.

"ABOVE TRUCK" WORK PERFORMED BY BUCKET TRUCK



GENERAL NOTES FOR WORK ZONE SIGNS

- Contractor shall install and maintain signs in a straight and plumb condition and/or as directed by the Engineer.
- Wooden sign posts shall be painted white.
- Barricades shall NOT be used as sign supports.
- Nails shall NOT be used to attach signs to any support.
- All signs shall be installed in accordance with the plans or as directed by the Engineer. Signs shall be used to regulate, warn, and guide the traveling public safely through the work zone.
- The Contractor may furnish either the sign design shown in the plans or in the "Standard Highway Sign Designs for Texas" (SHSD). The Engineer/Inspector may require the Contractor to furnish other work zone signs that are shown in the "Texas Manual on Uniform Traffic Control Devices" (TMUTCD) but may have been omitted from the plans. Any variation in the plans shall be documented by written agreement between the Engineer and the Contractor's Responsible Person. All changes must be documented in writing before being implemented. This can include documenting the changes in the Inspector's TxDOT diary and having both the Inspector and Contractor initial and date the agreed upon changes. The additional signs requested by the Engineer/Inspector shall not be subsidiary.
- The Contractor shall furnish sign supports listed in the "Compliant Work Zone Traffic Control Device List" (CWZTCD). The Contractor shall install the sign support in accordance with the manufacturer's recommendations. If there is a question regarding installation procedures, the Contractor shall furnish the Engineer a copy of the manufacturer's installation recommendations so that the Engineer can verify the correct procedures are being followed. The contractor is responsible for sign installations and replacing signs with damaged or cracked substrates and/or damaged or marred reflective sheeting as directed by the Engineer/Inspector.
- Identification markings may be shown only on the back of the sign substrate. The maximum height of letters and/or company logos used for identification shall be 1".
- The Contractor shall replace damaged wood posts. New or damaged wood sign posts shall not be spliced.

Duration of Work (as defined by the TMUTCD Part 6)

- The types of sign supports, the size of signs, and the type of sign substrates can vary based on the type of work being performed. The Engineer is responsible for selecting the appropriate size sign for the type of work being performed. The Contractor is responsible for ensuring that the sign support and substrate meets crashworthiness and length of work requirements.
- Long-term stationary is work that occupies a location more than 3 days.
 - Intermediate-term stationary is work that occupies a location for more than one daylight period up to 3 days, or nighttime work lasting more than 1 hour.
 - Short-term stationary is work that occupies a location up to 1 hour.
 - Mobile is work that moves intermittently or continuously.

SIGN MOUNTING HEIGHT

- The bottom of long-term/intermediate-term signs shall be at least 7 feet, but not more than 9 feet, above the paved surface.
- The bottom of Short-term/Short Duration signs shall be a minimum of 1 foot above the pavement surface but no more than 2 feet above the ground.
- Long-term/Intermediate-term Signs may be used in lieu of Short-term/Short Duration signing.
- Short-term/Short Duration signs shall be used only during daylight and shall be removed at the end of the workday.
- Regulatory signs shall be mounted at least 7 feet, but not more than 9 feet, above the paved surface regardless of work duration.

REMOVING OR COVERING

- When sign messages may be confusing or do not apply, the signs shall be removed or completely covered.
- Long-term stationary or intermediate stationary signs installed on square metal tubing may be turned away from traffic 90 degrees when the sign message is not applicable. This type of sign support meets the crashworthiness standards regardless of the direction of impact. This technique may not be used for signs installed in the median of divided highways or near any intersections where the sign may be seen from approaching traffic.
- Signs installed on skids shall not be turned at 90 degree angles to the roadway. These signs should be removed or completely covered when not required.
- When signs are covered, the material used shall be opaque, such as heavy mil black plastic.
- Burlap shall NOT be used to cover signs.
- Duct tape or other adhesive material shall NOT be affixed to a sign face. These materials can damage the retroreflectivity of sign sheeting.
- Signs shall be removed upon completion of the work.

SIGN SUPPORT WEIGHTS

- Where sign supports require the use of weights to keep from turning over, the use of sandbags with dry, cohesionless sand is recommended.
- The sandbags will be tied shut to keep the sand from spilling and to maintain a constant weight.
- Rock, concrete, iron, steel or other solid objects will not be permitted for use as sign support weights.
- Sandbags should weigh a minimum of 35 lbs and a maximum of 50 lbs.
- Sandbags shall be made of a durable material that tears upon vehicular impact.
- Rubber (such as tire inner tubes) shall NOT be used for sandbags.
- Rubber ballasts (such as those used with cones or edgeline channelizers) shall NOT be used as sign support weights.
- Sandbags shall only be placed along or laid over the base supports of the traffic control device and shall not be suspended above ground level or hung with rope, wire, chains or other fasteners. Sandbags shall be placed along the length of the skids to weigh down the sign support.
- Sandbags shall NOT be placed under the skid and shall not be used to level sign supports placed on slopes.

Only pre-qualified products shall be used. A copy of the "Compliant Work Zone Traffic Control Devices List" (CWZTCD) describes pre-qualified products and their sources and may be obtained by contacting:

Standards Engineer
Traffic Operations Division - IE
Texas Department of Transportation
125 East 11th Street
Austin, Texas 78701-2483
Phone (512) 416-3120
Fax (512) 416-3299

Instructions to locate the "CWZTCD" on TxDOT website are:

Start at website - www.dot.state.tx.us
Click on "About TxDOT".
Click on "Organizational Chart".
Click on "Traffic Operations Box".
Click on "Compliant Work Zone Traffic Control Devices".
Click on "View PDF".
This site is printable.

DEPARTMENTAL MATERIAL SPECIFICATIONS	DEPARTMENTAL MATERIAL SPECIFICATIONS
PLYWOOD SIGN BLANKS	DMS-7100
ALUMINUM SIGN BLANKS	DMS-7110
FLAT SURFACE REFLECTIVE SHEETING	DMS-8300
FLEXIBLE ROLL-UP REFLECTIVE SIGNS	DMS-8310
VINYL NON-REFLECTIVE SHEETING	DMS-8320

COLOR	USAGE	SHEETING MATERIAL
ORANGE	BACKGROUND	TYPE E (FLUORESCENT PRISMATIC)
WHITE	BACKGROUND	TYPE C (HIGH SPECIFIC INTENSITY)
BLACK	LEGEND & BORDERS	TYPE C (HIGH SPECIFIC INTENSITY)
BLACK	LEGEND & BORDERS	VINYL NON-REFLECTIVE SHEETING

STANDARD PLANS
TEXAS DEPARTMENT OF TRANSPORTATION
Traffic Operations Division

TRAFFIC SIGNAL INSTALLATION BARRICADES AND SIGNS

SHEET 2 OF 2 WZ (BTS-2) - 03

TxDOT	APR 11 1992	NO. GRB	NO. GRB	NO. CAL
REVISIONS	2-96	DESIGN	FEDERAL AID PROJECT	SHEET
4-96	6			
10-99		COUNTY	SECTION	POST-MILE
3-03				