



FORT WORTH

PROJ NO. 101264

FILE NO. K-263

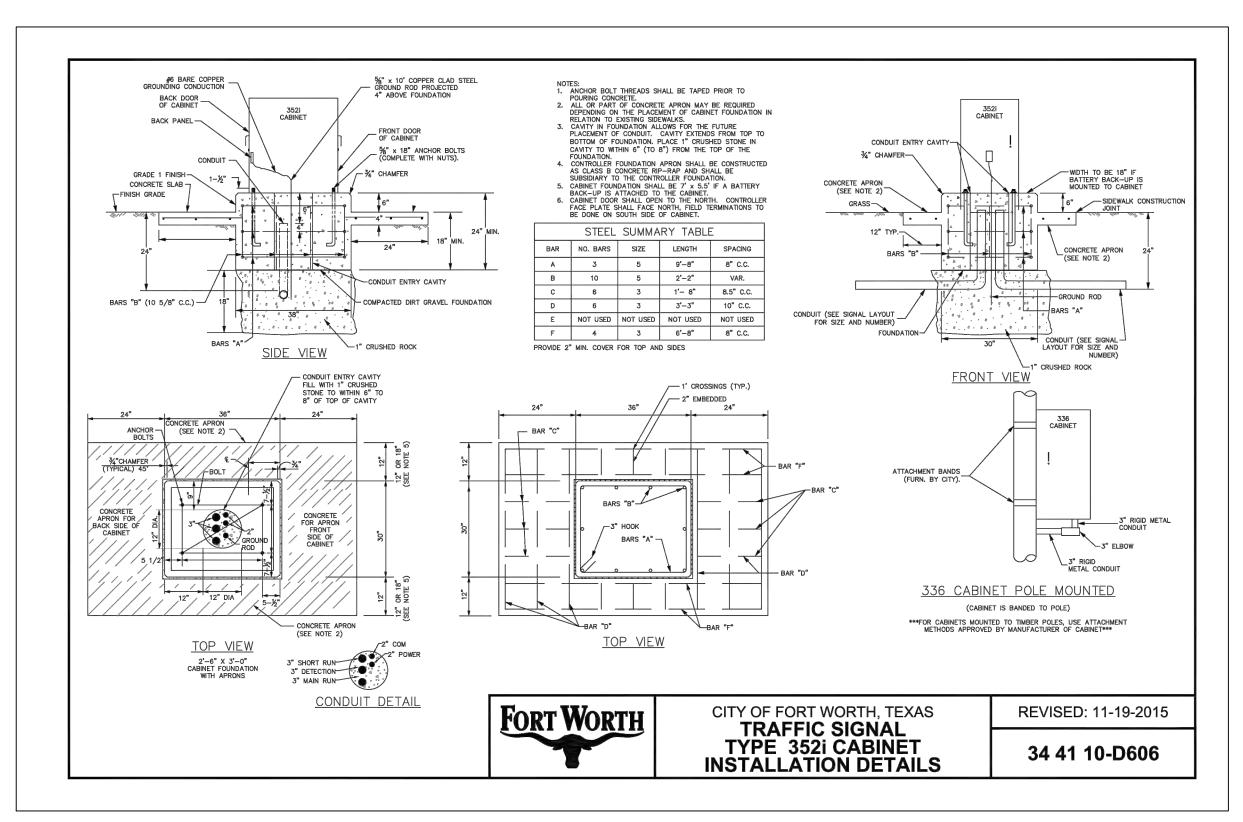
Texas Department of Transportation

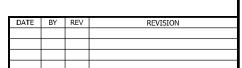
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2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

CFW STANDARD DETAIL -CABINET

	FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
	6	TEXAS	STP 2021(929)TP			VA
0	STATE DISTRICT	COUNTY	COUNTY CONTROL NO.		JOB NO.	SHEET NO.
Г	FTW	TARRANT	0902	90	082	297







Fort Worth, TX 7610 (TX REG F-1114) 817-335-1121



PROJ NO. 101264

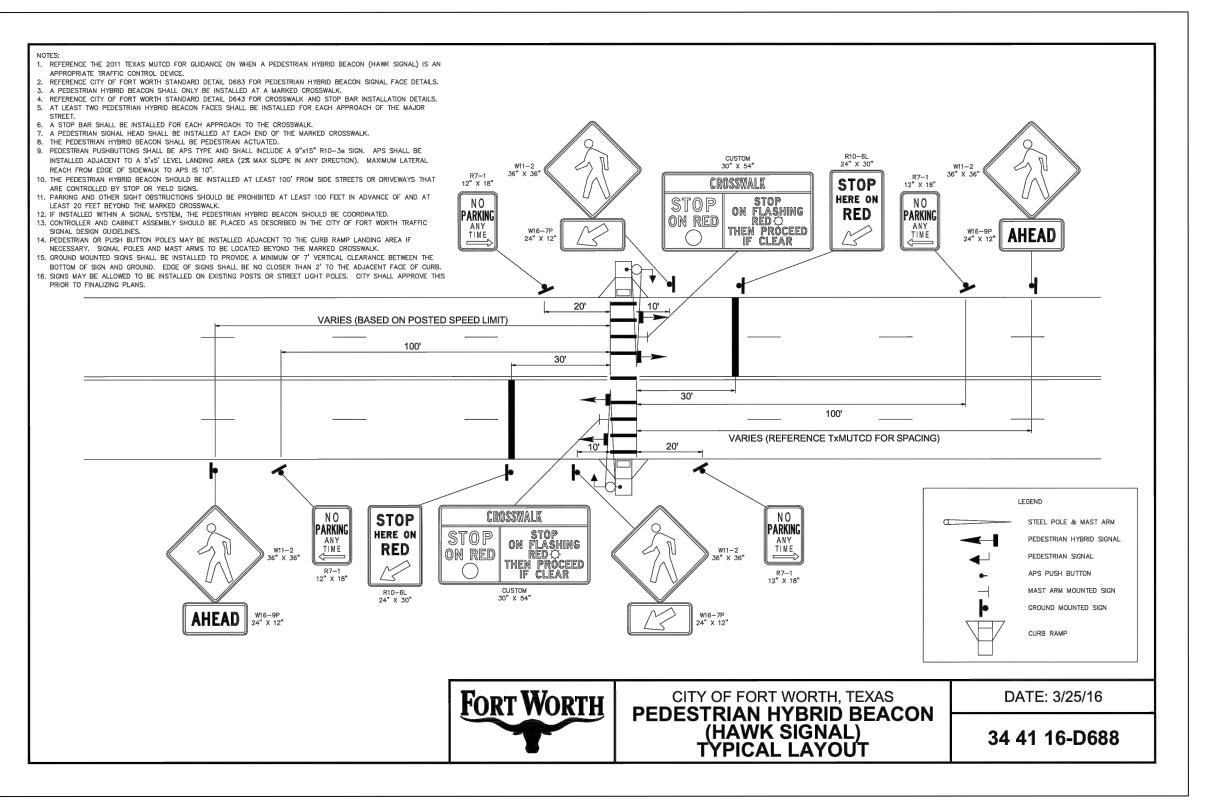
FILE NO. K-2630

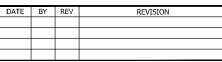
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2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	STP 2021(929)TP		VA	
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
FTW	TARRANT	0902	90	082	298







(TX REG F-1114) Fort Worth, TX 761 817-335-1121

FILE NO. K-2630

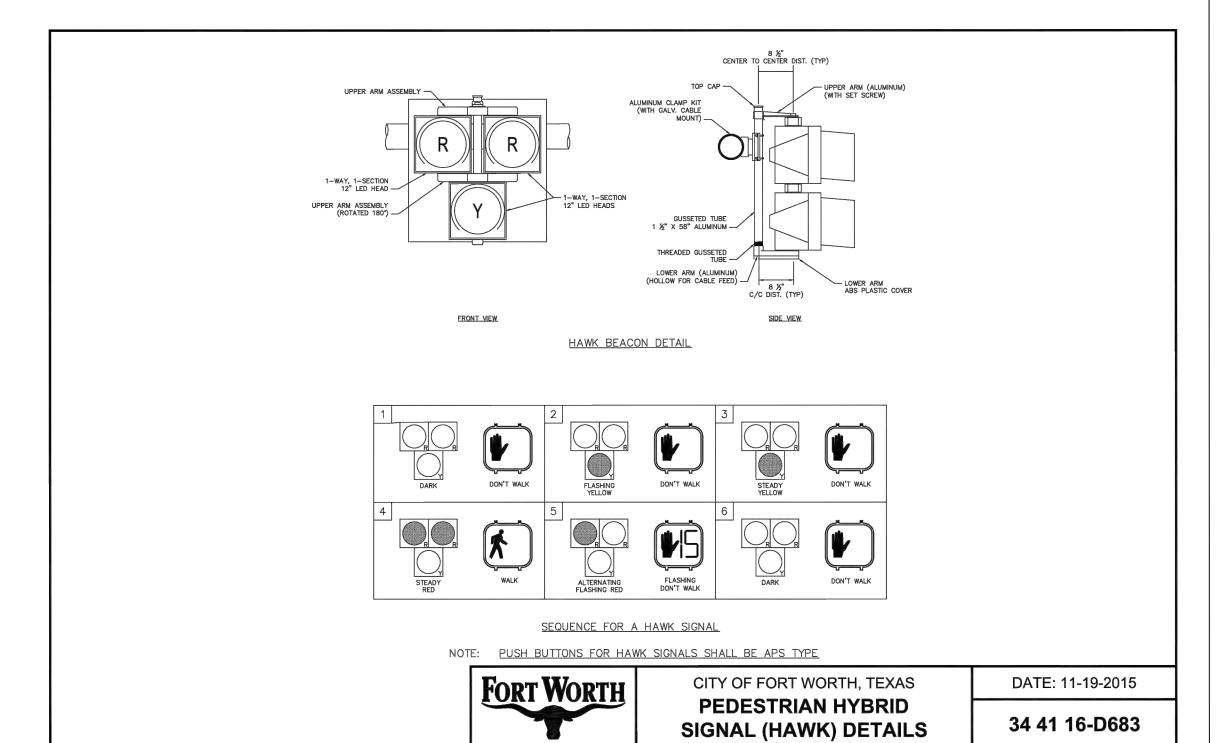
FORT WORTH

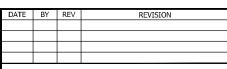
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2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	STP 2021(929)TP		VA	
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
FTW	TARRANT	0902	90	082	299







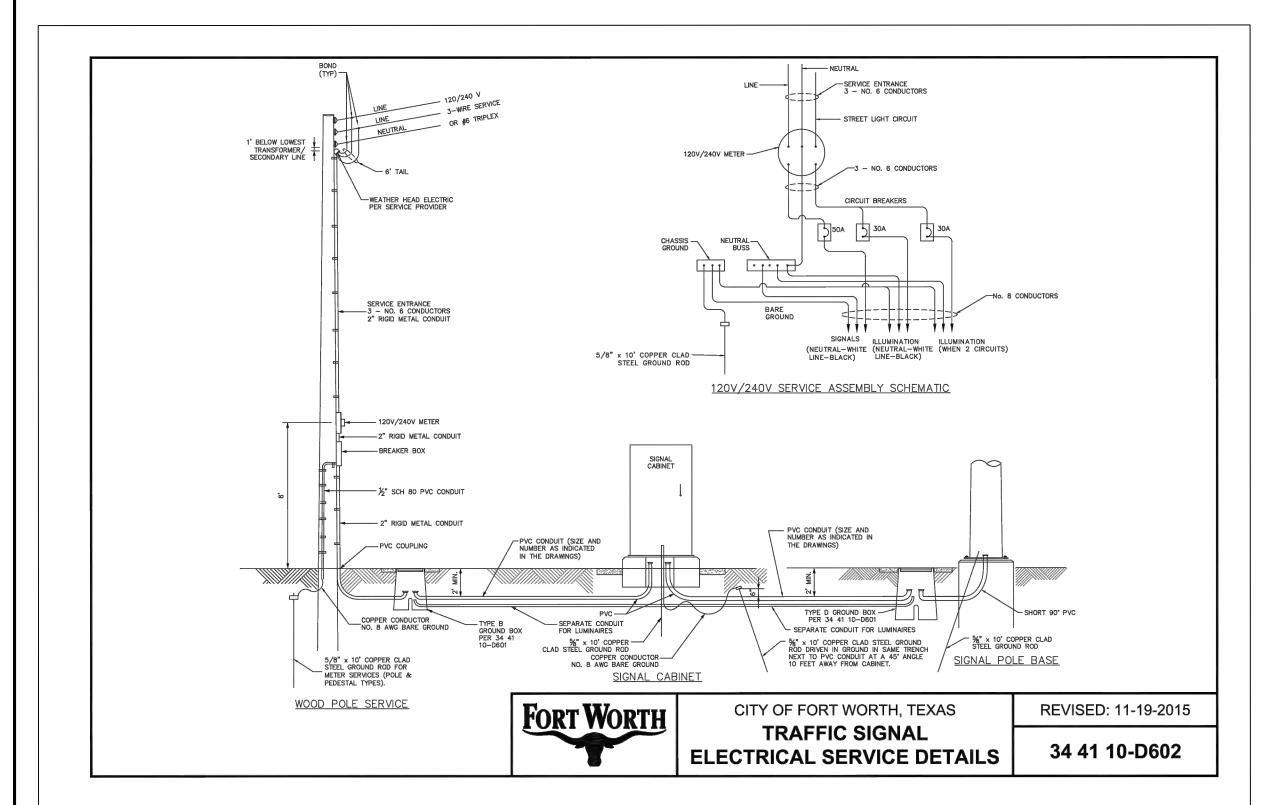
FORT WORTH

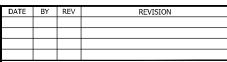
PROJ NO. 101264

Texas Department of Transportation

2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	STP 2021(929)TP			VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
FTW	TARRANT	0902	90	082	300







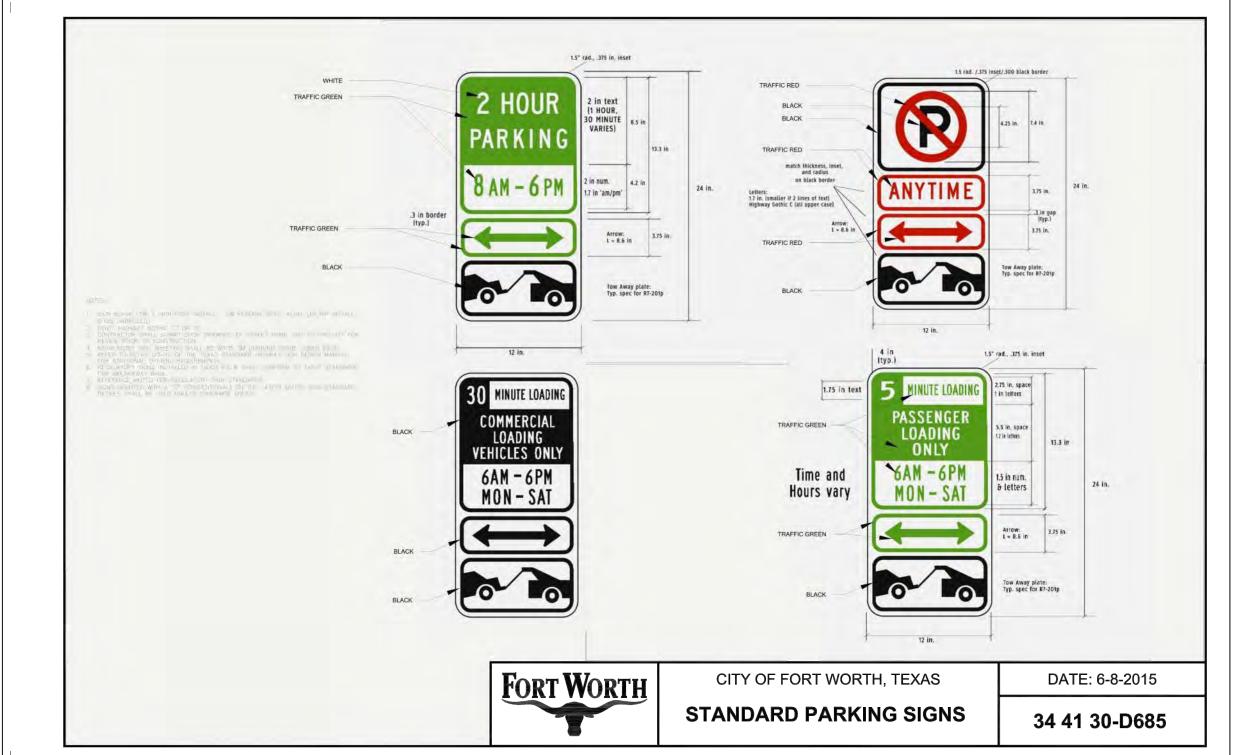
Fort Worth, TX 7 (TX REG F-1114) 817-335-1121



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2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	STP 2021(929)TP			VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
FTW	TARRANT	0902	90	082	301





DATE	BY	REV	REVISION



FORT WORTH FILE NO. K-2630

Texas Department of Transportation

2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

FED.RD. DIV. NO.	STATE	PROJECT NO.			HIGHWAY NO.
6	TEXAS	STP 2021(929)TP			VA
STATE DISTRICT	COUNTY	CONTROL NO.	SECTION NO.	JOB NO.	SHEET NO.
FTW	TARRANT	0902	90	082	302

REQUIREMENTS FOR RED BACKGROUND REGULATORY SIGNS

(STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)









REQUIREMENTS FOR FOUR SPECIFIC SIGNS ONLY

SHEETING REQUIREMENTS				
USAGE	COLOR	SIGN FACE MATERIAL		
BACKGROUND	RED	TYPE B OR C SHEETING		
BACKGROUND	WHITE	TYPE B OR C SHEETING		
LEGEND & BORDERS	WHITE	TYPE B OR C SHEETING		
LEGEND	RED	TYPE B OR C SHEETING		

REQUIREMENTS FOR WHITE BACKGROUND REGULATORY SIGNS

(EXCLUDING STOP, YIELD, DO NOT ENTER AND WRONG WAY SIGNS)





TYPICAL EXAMPLES

SHEETING REQUIREMENTS					
USAGE	COLOR	SIGN FACE MATERIAL			
BACKGROUND	WHITE	TYPE A SHEETING			
BACKGROUND	ALL OTHERS	TYPE B OR C SHEETING			
LEGEND, BORDERS AND SYMBOLS	BLACK	ACRYLIC NON-REFLECTIVE FILM			
LEGEND, BORDERS AND SYMBOLS	ALL OTHER	TYPE B OR C SHEETING			

REQUIREMENTS FOR WARNING SIGNS





TYPICAL EXAMPLES

SHEETING REQUIREMENTS					
USAGE	COLOR	SIGN FACE MATERIAL			
BACKGROUND	FLOURESCENT YELLOW	TYPE B _{FL} OR C _{FL} SHEETING			
LEGEND & BORDERS	BLACK	ACRYLIC NON-REFLECTIVE FILM			
LEGEND & SYMBOLS	ALL OTHER	TYPE B OR C SHEETING			

REQUIREMENTS FOR SCHOOL SIGNS





TYPICAL EXAMPLES

SHEETING REQUIREMENTS					
USAGE	COLOR	SIGN FACE MATERIAL			
BACKGROUND	WHITE	TYPE A SHEETING			
BACKGROUND	FLOURESCENT YELLOW GREEN	TYPE B _{FL} OR C _{FL} SHEETING			
LEGEND, BORDERS AND SYMBOLS	BLACK	ACRYLIC NON-REFLECTIVE FILM			
SYMBOLS	RED	TYPE B OR C SHEETING			

GENERAL NOTES

- Signs to be furnished shall be as detailed elsewhere in the plans and/or as shown on sign tabulation sheet. Standard sign designs and arrow dimensions can be found in the "Standard Highway Sign Designs for Texas" (SHSD);
- Sign legend shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets (B, C, D, E, Emod or F).
- Lateral spacing between letters and numerals shall conform with the SHSD, and any approved changes thereto. Lateral spacing of legend shall provide a balanced appearance when spacing is not shown.
- Black legend and borders shall be applied by screening process or cut-out acrylic non-reflective black film to background sheeting, or combination thereof.
- 5. White legend and borders shall be applied by screening process with transparent colored ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof.
- Colored legend shall be applied by screening process with transparent colored ink, transparent colored overlay film or colored sheeting to background sheeting, or combination thereof.
- 7. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative.
- Mounting details for roadside mounted signs are shown in the "SMD series" Standard Plan Sheets.

ALUMINUM SIGN	BLANKS THICKNESS
Square Feet	Minimum Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

DEPARTMENTAL MATERIAL SPE	CIFICATIONS
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

The Standard Highway Sign Designs for Texas (SHSD) can be found at the following website.

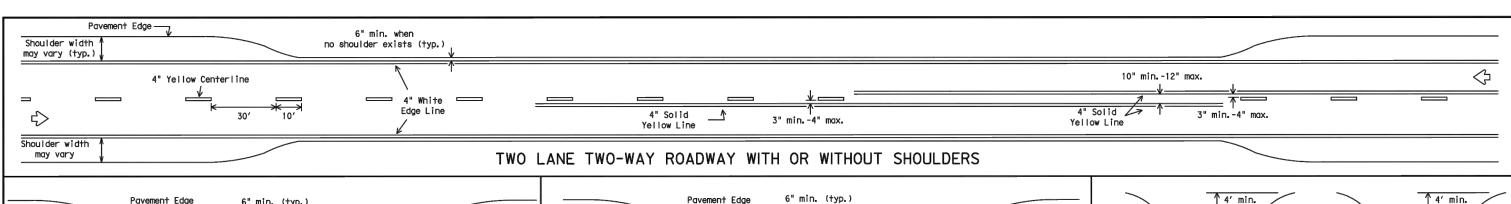
http://www.txdot.gov/

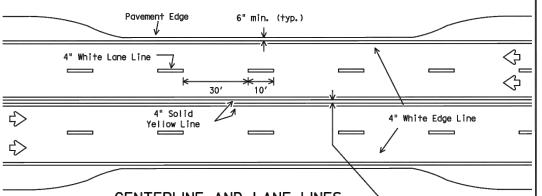


TYPICAL SIGN REQUIREMENTS

TSR(4) - 13

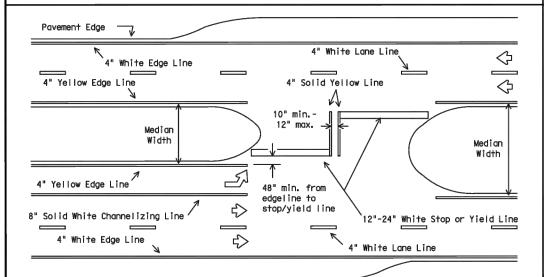
ILE: tsr4-13.dgn		DN: T	xDOT	CK: TxDOT	D₩s	TxDOT	ck: TxDOT
C TxDOT	October 2003	CONT	SECT	JOB		HIG	HWAY
REVISIONS 12-03 7-13 9-08		0902	90	082		N	/A
		DIST	COUNTY		SHEET NO.		
		FTW		TARRAN	IT		303





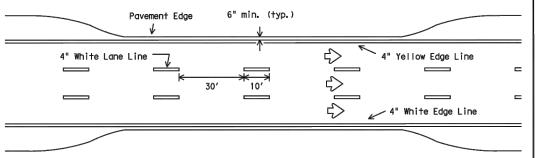
CENTERLINE AND LANE LINES
FOUR LANE TWO-WAY ROADWAY
WITH OR WITHOUT SHOULDERS

3" min.-4" usual (12" max. for traveled way greater than 48' only)

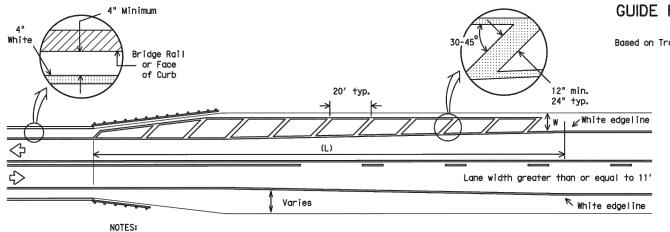


All medians shall be field measured to determine the location of necessary striping. Stop/Yield bars and centerlines shall be placed when the median width is greater than 30 ft. The median width is defined as the area between two roadways of a divided highway measured from edge of traveled way to edge of traveled way. The median excludes turn lanes. The median width might be different between intersections, interchanges and of opposite approaches of the same intersection. The narrow median width will be the controlling width to determine if markings are required.

FOUR LANE DIVIDED ROADWAY INTERSECTIONS



EDGE LINE AND LANE LINES ONE-WAY ROADWAY WITH OR WITHOUT SHOULDERS



- 1. No-passing zone on bridge approach is optional but if used, it shall be a minimum 500 feet long.
- For crosshatching length (L) see Table 1.
 The width of the offset (W) and the required crosshatching width is the full shoulder width in advance of the bridge.
- 4. The crosshotching is not required if delineators or barrier reflectors are used along the structure.
- 5. For guard fence details, refer elsewhere in the plans.

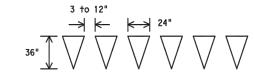
ROADWAYS WITH REDUCED SHOULDER WIDTHS ACROSS BRIDGE OR CULVERT

GENERAL NOTES

- 1. Edgeline striping shall be as shown in the plans or as directed by the Engineer. The edgeline should typically be placed a minimum of 6 inches from the edge of pavement. This distance may vary due to pavement raveling or other conditions. Edgelines are not required in curb and gutter sections of roadways.
- The traveled way includes only that portion of the roadway used for vehicular travel and not the parking lanes, sidewalks, berms and shoulders. The traveled ways shall be measured from the inside of edgeline to inside of edgeline of a two lane roadway.

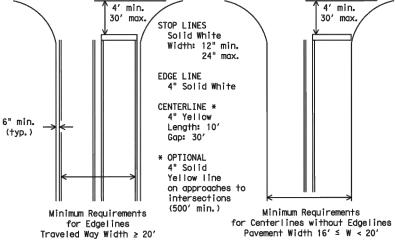
MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
POXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

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



FOR POSTED SPEED ON ROAD BEING MARKED EQUAL TO OR GREATER THAN 45 MPH

YIELD LINES



GUIDE FOR PLACEMENT OF STOP LINES, EDGE LINE & CENTERLINE

Based on Traveled Way and Pavement Widths for Undivided Highways

TABLE 1 - TYPICAL LENGTH (L)

Posted Speed **	Formula		
≤ 40	L= WS 2		
≥ 45	L=WS		

X 85th Percentile Speed may be used on roads where traffic speed normally exceed the posted speed !lmit Crosshatching length should be rounded up to nearest 5 foot increment.

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

FYAMPI ES:

An 8 foot shoulder in advance of a bridge reduces to 4 feet on a 70 MPH roadway. The length of the crosshatching should be:

L = 8 x 70 = 560 ft.

A 4 foot shoulder in advance of a bridge reduces to 2 feet on a 40 MPH roadway. The length of the cross-hatching should be:

 $L = 4(40)^2 / 60 = 106.67$ ft. rounded to 110 ft.



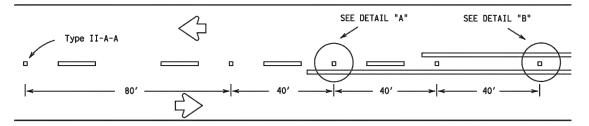
TYPICAL STANDARD PAVEMENT MARKINGS

PM(1)-12

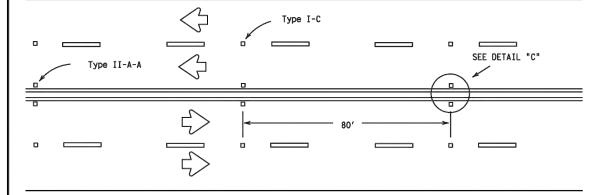
C TxDOT November 1978	DN: TXD	от	CK: TXDOT	DW:	TXDOT	CK: TXDOT
REVISIONS	CONT	SECT	JOB		HIG	HWAY
-95 2-12 -00	0902	90	082			
-00	DIST		COUNTY			SHEET NO.
-03						304

DATE: FILE:

REFLECTIVE RAISED PAVEMENT MARKERS FOR VEHICLE POSITIONING GUIDANCE

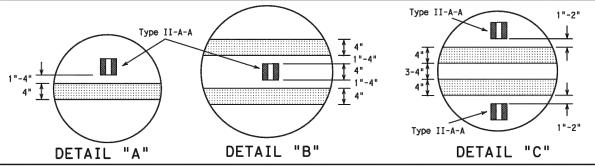


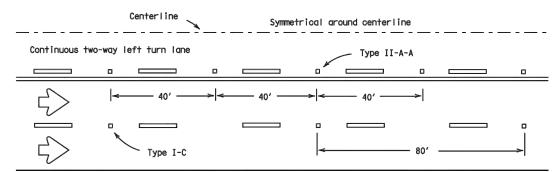
CENTERLINE FOR ALL TWO LANE ROADWAYS



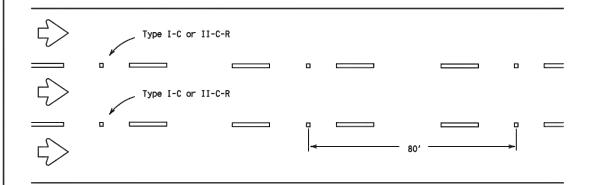
CENTERLINE & LANE LINES FOR FOUR LANE TWO-WAY HIGHWAYS

Raised pavement marker Type I-C, clear face toward normal traffic, shall be placed on 80-foot centers.



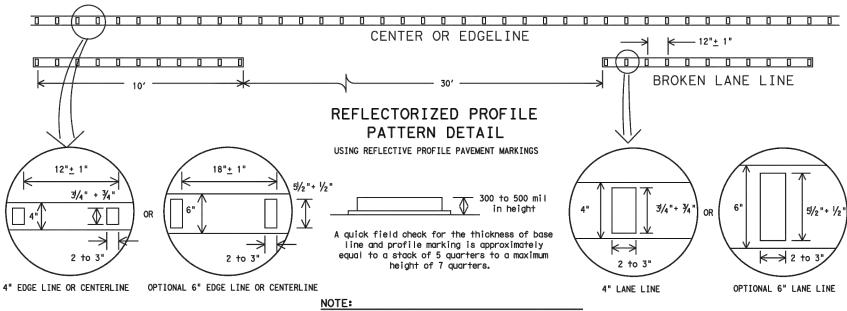


CENTERLINE AND LANE LINES FOR TWO-WAY LEFT TURN LANE



LANE LINES FOR ONE-WAY ROADWAY (NON-FREEWAY FACILITIES)

Raised pavement markers Type II-C-R shall have clear face toward normal traffic and red face toward wrong-way traffic.

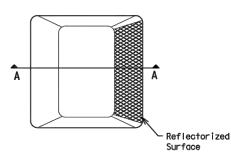


GENERAL NOTES

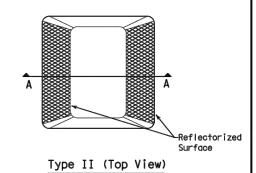
- 1. All raised pavement markers placed in broken lines shall be placed in line with and midway between the stripes.
- 2. On concrete pavements the raised pavement markers should be placed to one side of the longitudinal

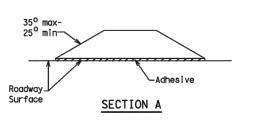
MATERIAL SPECIFICATIONS	
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200
EPOXY AND ADHESIVES	DMS-6100
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130
TRAFFIC PAINT	DMS-8200
HOT APPLIED THERMOPLASTIC	DMS-8220
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240

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



Type I (Top View)





RAISED PAVEMENT MARKERS

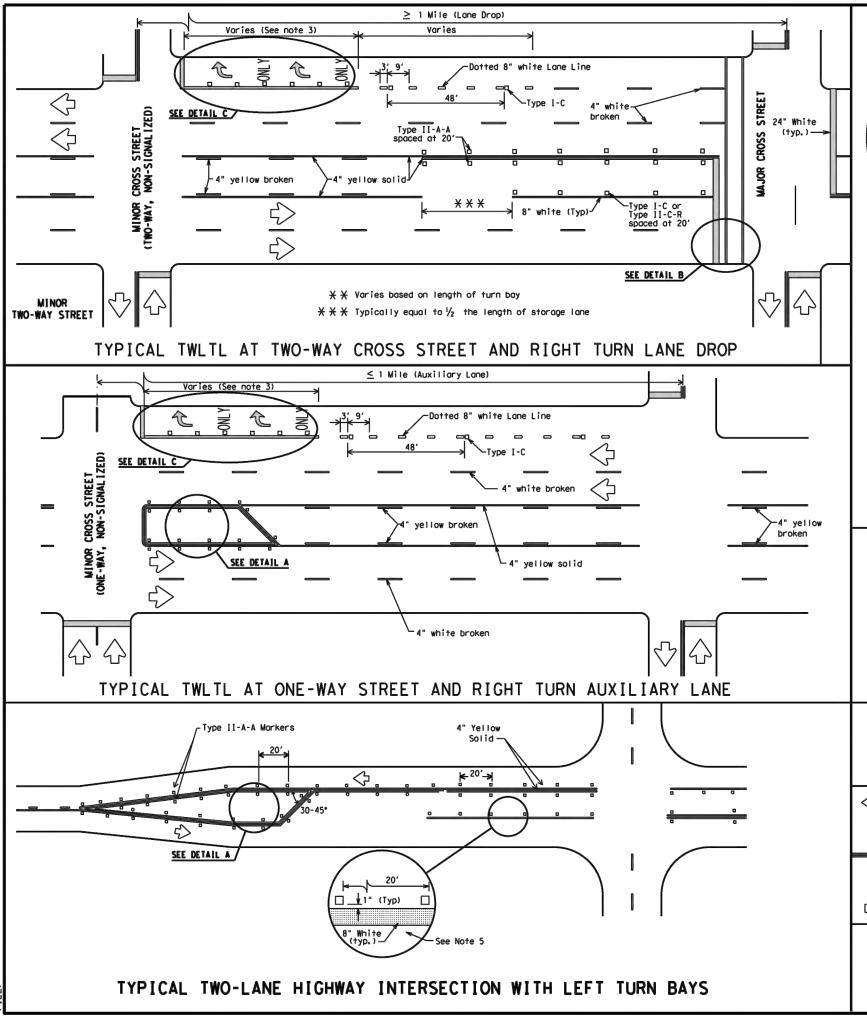


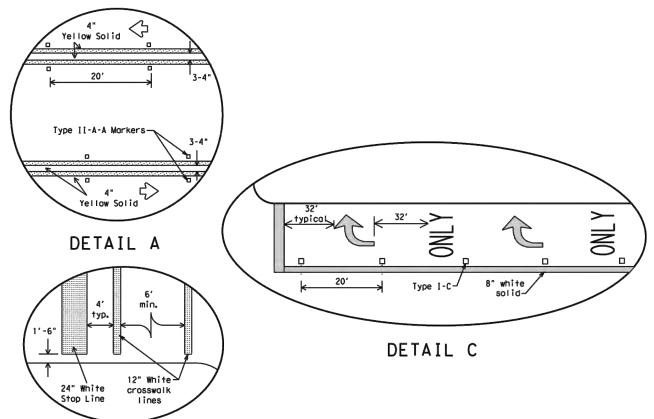
POSITION GUIDANCE USING RAISED MARKERS REFLECTORIZED PROFILE **MARKINGS**

PM(2) - 12

©TxDOT April 1977		DN: TX	DOT CK: TXDOT DW: TX		DW: TXDO	Т	CK: TXDOT
REVISIONS		CONT	SECT	JOB	HIGHWAY		HWAY
4-92 2-10 5-00 2-12	2-10 2-12	0902	90	082	N/A		/A
8-00		DIST		COUNTY		S	HEET NO.
2-08		FTW TARRANT			305		

Profile markings shall not be placed on roadways with a posted speed limit of 45 MPH or less.



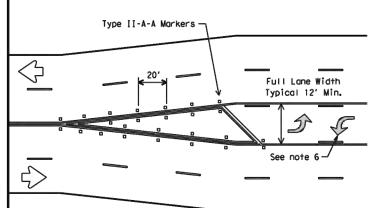


and Crosswalk shall be approved

Final placement of Stop Bar

MATERIAL SPECIFICATIONS					
PAVEMENT MARKERS (REFLECTORIZED)	DMS-4200				
EPOXY AND ADHESIVES	DMS-6100				
BITUMINOUS ADHESIVE FOR PAVEMENT MARKERS	DMS-6130				
TRAFFIC PAINT	DMS-8200				
HOT APPLIED THERMOPLASTIC	DMS-8220				
PERMANENT PREFABRICATED PAVEMENT MARKINGS	DMS-8240				

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



TYPICAL TRANSITION FOR TWLTL AND DIVIDED HIGHWAY

GENERAL NOTES

- Refer elsewhere in plans for additional RPM placement and details.
- Lane use word and arrow markings shall be used where through lanes approaching an intersection become mandatory turn lanes. Lane use word and arrow markings should be used in auxiliary lanes of substantial length. Lane use arrow markings or word and arrow markings may be used in other lanes and turn bays for emphasis. Details for words and arrows as shown in the Standard Highway Sign Designs for Texas.
- When lane used word and arrow markings are used, two sets of arrows should be used if the length of the bay is greater than 180 feet. When a single lane use arrow or word and arrow marking is used for a short turn lane, it should be located at or near the upstream end of the full-width turn lane.
- I. Other crosswalk patterns as shown in the "Texas Manual on Uniform Traffic Control Devices" may be used
- Raised pavement marker Type I-C with undivided highways, flush medians and two way left turn lanes. Raised pavement marker Type II-C-R with divided highways and raised medians.
- 6. A two-way left-turn (TWLT) lane-use arrow pavement marking should be used at or just downstream from the beginning of a two-way left-turn lone within a corridor. Repeating the marking after each intersection or dedicated turn bay is not required unless stated elsewhere in the plans.



PAVEMENT MARKINGS FOR TWO-WAY LEFT TURN LANES DIVIDED HIGHWAYS AND RURAL LEFT TURN BAYS

PM(3) - 12

C TxDOT April 1998	DN: TXD	TO	CK: TXDOT	DW: T	TOOT	CK: TXDOT	
REVISIONS 5-00 2-12	CONT	SECT	JOB		ніс	HIGHWAY	
5-00 2-12 8-00	0902	90	082		N	/A	
3-03	DIST		COUNTY			SHEET NO.	
2-10	FTW		TARRAN	Т		306	



SM RD SGN ASSM TY XXXXX(X)XX(X-XXXX)

Post Type

FRP = Fiberglass Reinforced Plastic Pipe (see SMD(FRP)) TWT = Thin-Walled Tubing (see SMD(TWT))

10BWG = 10 BWG Tubing (see SMD(SLIP-1) to (SLIP-3)) S80 = Schedule 80 Pipe (see SMD(SLIP-1) to (SLIP-3))

Number of Posts (1 or 2) -

Anchor Type

UA = Universal Anchor - Concreted (see SMD(FRP) and (TWT)) UB = Universal Anchor - Bolted down (see SMD(FRP) and (TWT))

WS = Wedge Anchor Steel - (see SMD(TWT))

WP = Wedge Anchor Plastic (see SMD(TWT))

No more than 2 sign

posts should be located

within a 7 ft. circle.

SA = Slipbase - Concreted (see SMD(SLIP-1) to (SLIP-3))

SB = Slipbase - Bolted Down (see SMD(SLIP-1) to (SLIP-3))

Sign Mounting Designation

P = Prefab. "Plain" (see SMD(SLIP-1) to (SLIP-3), (TWT), (FRP)) T = Prefqb, "T" (see SMD(SLIP-1) to (SLIP-3), (TWT)) U = Prefab. "U" (see SMD(SLIP-1) to (SLIP-3))

1EXT or 2EXT = Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (TWT))|

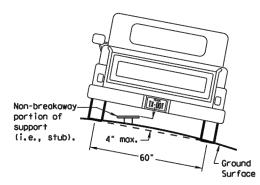
BM = Extruded Wind Beam (see SMD(SLIP-1) to (SLIP-3)) WC = 1.12 #/ft Wing Channel (see SMD(SLIP-1) to (SLIP-3))

EXAL = Extruded Aluminum Sign Panels (see SMD(SLIP-3))

diameter

circle / Not Acceptable

REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT



To avoid vehicle undercarriage snagging, any substantial remains of a breakaway support, when it is broken away, should not project more than 4 inches above a 60-inch chord (i.e., typical space between wheel paths).

Not Acceptable

-Nut. lock

7 ft. diameter

circle

Not Acceptable

Acceptable

diameter

Back-to-Back

Signs

Sign Post

Specific Clamp

3 or 3 1/2"

3 1/2 or 4"

- Clamo Bolt

Nylon washer, flat

washer, lock washer,

Pipe Diameter

2" nominal

2 1/2" nominal

3" nominal

circle

∕— Sign Panel

∠Sign Panel

Universal Clamp

3 or 3 1/2"

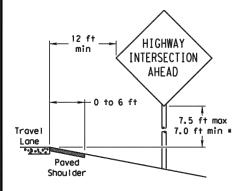
3 1/2 or 4"

4 1/2"

└ Sign Bolt

Approximate Bolt Length

PAVED SHOULDERS



LESS THAN 6 FT. WIDE

When the shoulder is 6 ft. or less in width. the sign must be placed at least 12 ft, from the edge of the travel lane.

HIGHWAY 6 ft min INTERSECTION AHEAD Greater than 6 ft 7.5 ft max Travel 7.0 ft min : Lane Paved Shou I der

SIGN LOCATION

GREATER THAN 6 FT. WIDE

When the shoulder is greater than 6 ft in width. the sign must be placed at least 6 ft, from the edge of the shoulder.

When this sign is needed at the end of a two-lane, two way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

Paved

Shou I dei

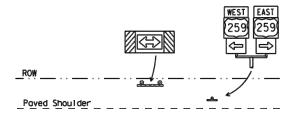
T-INTERSECTION

12 ft min

← 6 ft min -

7.5 ft mox

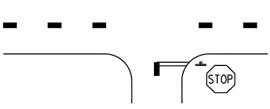
7.0 ft min *



Edge of Travel Lane

Travel

Lane



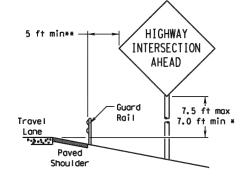
- * Signs shall be mounted using the following condition that results in the greatest sign elevation:
- (1) a minimum of 7 to a maximum of 7.5 feet above the edge of the travel lane or
- (2) a minimum of 7 to a maximum of 7.5 feet above the grade at the base of the support when sign is installed on the backslope.

The maximum values may be increased when directed by

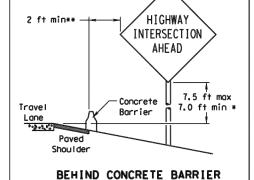
See the Traffic Operations Division website for detailed drawings of sign clamps, Triangular Slipbase System components and Wedge Anchor System components.

The website address is: http://www.txdot.gov/publications/traffic.htm

BEHIND BARRIER



BEHIND GUARDRAIL



**Sign clearance based on distance required for proper guard rail or concrete barrier performance.

RESTRICTED RIGHT-OF-WAY

Maximum

Trovel

possible

(When 6 ft min, is not possible,)

7.5 ft max

7.0 ft min *

HIGHWAY

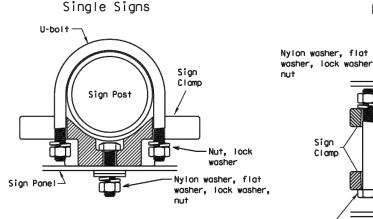
INTERSECTION

AHEAD

TYPICAL SIGN ATTACHMENT DETAIL

diameter

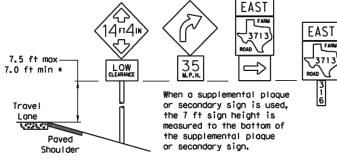
circle



Bolts used to mount sign panels to the clamp are 5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The bolt length is 1 inch for aluminum.

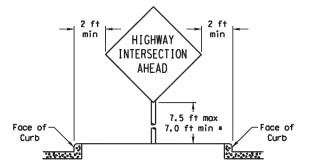
When two sign clamps are used to mount signs back-to-back, use a 5/16-18 UNC galvanized hex head per ASTM A307 with nut and helical-spring lock washer. The approximate bolt lengths for various post sizes and sign clamp types are given in the table at right. The bolt length may need to be adjusted depending upon field conditions.

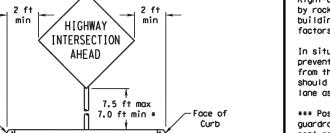
Sign clamps may be either the specific size clamp the universal clamp.



SIGNS WITH PLAQUES

CURB & GUTTER OR RAISED ISLAND





Right-of-way restrictions may be created by rocks, water, vegetation, forest, buildings, a narrow island, or other factors.

In situations where a lateral restriction prevents the minimum horizontal clearance from the edge of the travel lane, signs should be placed as far from the travel lane as practical.

*** Post may be shorter if protected by guardrail or if Engineer determines the post could not be hit due to extreme

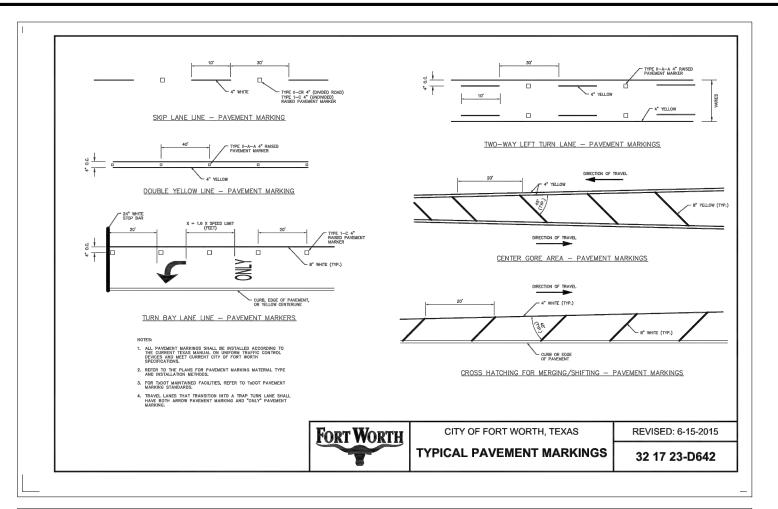


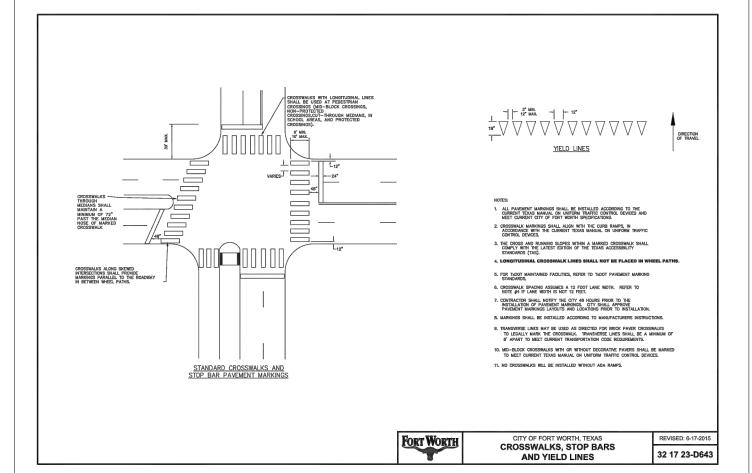
SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS

SMD (GEN) -08

© TxDOT July 2002	DN: TXD	OT	CK: TXDOT	DW:	TXDOT	CK: TXDOT
9-08 REVISIONS	CONT	SECT	JOB		ні	GHWAY
	0902	90	082		1	N/A
	DIST		COUNTY			SHEET NO.
	FTW		TARRAN	Т		307

26A





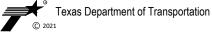


DATE	BY	REV	REVISION



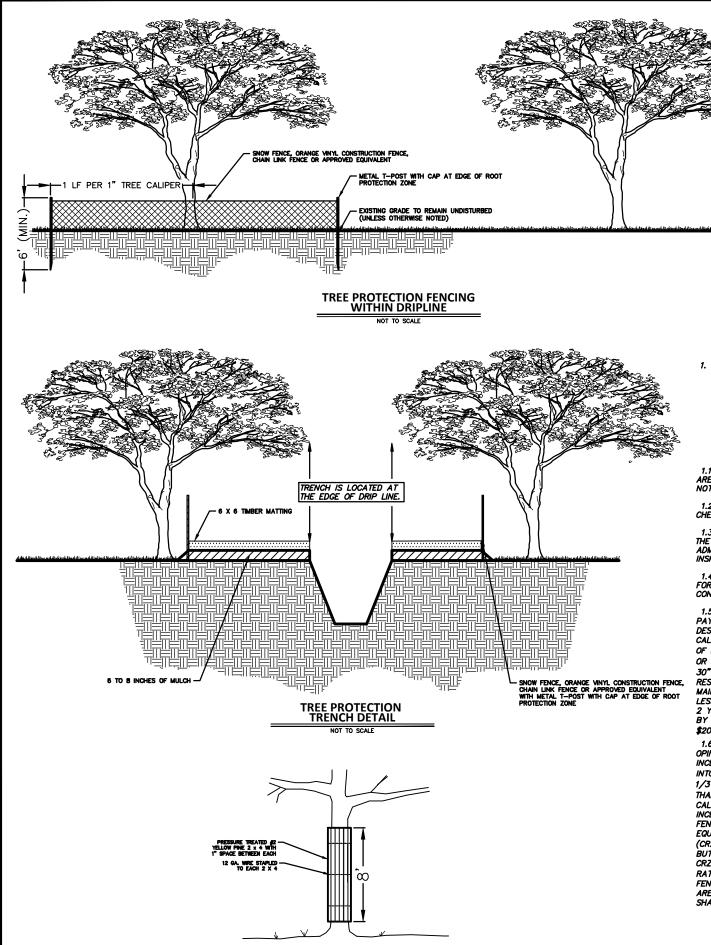


PROJ NO. 101264



2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

FED.RD. DIV. NO.	STATE		PROJECT NO.			
6	TEXAS	STI	STP 2021(929)TP			
STATE DISTRICT	COUNTY	CONTROL SECTION JOB NO. NO. NO.			SHEET NO.	
FTW	TARRANT	0902	90	082	308	



EXISTING TREE TRUNK PROTECTION

ASSESSMENT OF DAMAGES TO TREES:

NO PRUNING OF ANY CITY TREE SHALL BE PERMITTED, UNLESS SPECIFIED OTHERMSE IN THESE SPECIFICATIONS, SEVERE DAMAGE TO TREES WILL RESULT IN REPLACEMENT OR COMPENSATION OF TREES BY THE CONTRACTOR. FAILURE TO REPLACE DAMAGED TREES SHALL BE CONSIDERED A BREACH OF CONTRACT AND CONTRACTOR SHALL BE ASSESSED FOR DAMAGES. SLIGHT OR MODERATE DAMAGE TO TREES WILL RESULT IN ASSESSMENT OF DAMAGES

6 TO 8 INCHES OF MULCH

ASSESSMENT OF DAMAGES TO TREES

- 1.1. THE CONTRACTOR WILL CHECK TREES IN THE CONTRACT
 AREA BEFORE CONTRACT WORK BEGINS, ANY DAMAGE WILL BE
 NOTED AND REPORTED TO THE CONTRACT ADMINISTRATOR.
- 1.2.THE CONTRACT ADMINISTRATOR WILL CONDUCT RANDOM CHECKS OF TREES DURING CONTRACT PERIOD.
- 1.3.A CHECK OF ALL TREES MAY BE MADE AT THE END OF THE CONTRACT PERIOD. CITY FORESTER, CONTRACT ADMINISTRATOR, AND CONTRACTOR WILL ATTEND THE INSPECTION.
- 1.4.DAMAGES SHALL BE DOCUMENTED BY MEMO TO THE CITY FORESTER WITH COPY TO CONTRACT FILE AND THE CONTRACTOR.
- 1.5.CONTRACTOR MAY HAVE THE OPTION OF REPLACEMENT OR PAYMENT FOR SEVERELY DAMAGED TREES AT A LOCATION DESIGNATED BY PARD. REPLACEMENT SHALL BE MADE ON CALIPER INCH PER CALIPER INCH BASIS WITH A MINIMUM SIZE OF REPLACEMENT TREE OF 2" IN CALIPER FOR TREES DAMAGED OR REMOVED LESS THAN 30" DBH AND 2" PER INCH ON TREES 30" DBH OR GREATER. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PLANTING WATERING, MULCHING AND MAINTENANCE OF REPLACEMENT TREES FOR A PERIOD OF NOT LESS THAN 2 YEARS. ANY TREE THAT DOES NOT SURVIVE THE 2 YEAR ESTABLISHMENT PERIOD SHALL BE COMPENSATED FOR BY THE CONTRACTOR TO PARD TREE FUND AT A RATE OF \$200 PER CALIPER INCH.
- 1.6.SLIGHT DAMAGE SHALL BE DEFINED AS DAMAGE, IN THE OPINION OF THE CITY FORESTER THAT MAY HEAL. EXAMPLES INCLUDE BUT ARE NOT LIMITED TO; SCARING OF THE TRUNK INTO THE CAMBIAL LAYER 1/2" TO 2" IN WIDTH BUT LESS THAN 1/3 TRUNK CIRCUMFERENCE OR BREAKING OF LIMBS LESS THAN 2"IN DIAMETER OR LIMBS LESS THAN 1/3 TRUNK CALIPER. WHICHEVER IS LESS. SLIGHT DAMAGE SHALL ALSO INCLUDE REMOVAL OR LYING DOWN OF PROTECTIVE TREE FENCING PRIOR TO END OF CONSTRUCTION, STORING EQUIPMENT OR SUPPLIES WITHIN THE CRITICAL ROOT ZONE (CRZ). OR DISPOSING OF PAINT OR CONCRETE WITHIN THE CRZ BUT NOT CLOSER TO THE TRUNK THAN 50% RADIUS OF THE CRZ. SLIGHT DAMAGE TO TREES SHALL BE ASSESSED AT A RATE OF \$100.00 FOR EACH INSTANCE. EACH DAY TREE FENCING IS NOT PROPERLY PLACED, EQUIPMENT OR SUPPLIES ARE STORED WITHIN CRZ OR FILL IS STORED WITHIN THE CRZ SHALL BE CONSIDERED ONE INSTANCE.

1.7.MODERATE DAMAGE SHALL BE DEFINED AS DAMAGE, IN THE OPINION OF THE CITY FORESTER. THAT CONTRIBUTES TO THE POOR HEALTH AND REDUCED LONGEVITY OF THE TREE, EXAMPLES INCLUDE BUT ARE NOT LIMITED TO SCARING OF THE TRUNK INTO THE CAMBIAL LAYER GREATER THAN 2 BUT LESS THAN 1/3 THE TRUNK CIRCUMFERENCE OR BREAKING OF LIMBS MORE THAN 2 IN DIAMETER BUT LESS THAN 1/3 TRUNK CALIPER. MODERATE DAMAGE SHALL ALSO INCLUDE COMPACTION OF SOIL, GRADING OR FILLING IN 20% OF THE CRZ ON ONE OF FOUR SIDES BUT OUTSIDE THE 50% RADIUS OF THE CRZ, DISPOSING OF PAINT OR CONCRETE WITHIN 50% RADIUS OF THE CRZ, MODERATE DAMAGES SHALL BE CALCULATED AT A RATE OF ½ THE ASSESSED VALUE OF THE TREE PER EACH INSTANCE OF DAMAGE.

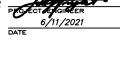
6 X 6 TIMBER MATTING

TREE PROTECTION FENCING WITHIN DRIPLINE

- 1.8.SEVERE DAMAGE OR REMOVAL OF TREES IS SUBJECT TO PENALTY OF \$200 PER DIAMETER INCH OF TREES REMOVED OR DAMAGED FOR TREES LESS THAN 30"DBH. \$400 PER DIAMETER INCH OF TREES 30"DBH OR GREATER. SEVERE DAMAGE OR REMOVAL SHALL INCLUDE BUT IS NOT LIMITED TO SCARING OF THE TRUNK TO THE CAMBIAL LAYER GREATER THAN 1/3 THE TRUNK CIRCUMFERENCE, UPROOTING OR CAUSING A TREE TO LEAN, DAMAGE TO A SCAFFOLDING BRANCH OR BRANCH GREATER THAN 1/3 OF TRUNK CALIPER. SEVERE DAMAGE SHALL ALSO INCLUDE COMPACTION OF SOIL, GRADING OR FILLING MORE THAN 20% OF THE CRZ, OR WITHIN 50% RADIUS OF THE CRZ OR ON MORE THAN ONE OF 4 SIDES. CUTTING 1/3 OF THE BUTTRESS ROOTS WITHIN 3 TIMES THE DISTANCE OF THE DBH OF THE TRUNK, OR CUTTING 4 ROOTS 4" OR GREATER IN DIAMETER WITHIN 4 OF THE TRUNK SHALL ALSO BE CONSIDERED SEVERE DAMAGE.
- 1.9.BRANCHES SHALL BE MEASURED AT THE POINT OF ATTACHMENT OR AT THE LATERAL TO WHICH THE BRANCH WOULD BE PRUNED BACK TO ACCORDING TO ANSI STANDARDS. TREES CALIPER SHALL BE MEASURED ACCORDING TO ACCEPTED INDUSTRY STANDARDS. TREES GREATER THAN 6"IN CALIPER SHALL BE MEASURED USING DIAMETER AT BREAST HEIGHT (DBH). TREES THAT MUST BE REMOVED DUE TO DAMAGE CAUSED BY THE CONTRACTOR SHALL BE REMOVED BY THE FORESTRY SECTION TREE REMOVAL CONTRACTOR AT THE CONTRACTOR'S EXPENSE.
- 1.10. ALL DAMAGES SHALL BE PAID TO THE CITY TREE FUND. FAILURE TO REPLACE OR PAY FOR DAMAGED TREES SHALL RESULT IN A BREACH OF CONTRACT AND THE CONTRACTOR WILL BE AUTOMATICALLY ASSESSED DAMAGES. DAMAGES AS DESCRIBED HEREIN SHALL BE DEDUCTED FROM PAYMENTS OTHERWISE DUE TO THE CONTRACTOR.

- SNOW FENCE, ORANGE WINYL CONSTRUCTION FENCE, CHAIN LINK FENCE OR APPROVED EQUIVALENT WITH METAL T-POST WITH CAP AT EDGE OF ROOT PROTECTION ZONE





DATE	BY	REV	REVISION



FORT WORTH

PROJ NO. 101264

FILE NO. K-2630



Texas Department of Transportation

2018 SAFE ROUTES TO SCHOOL IMPROVEMENTS

TREE PROTECTION DETAILS

FED.RD. DIV. NO.	STATE		PROJECT NO.			
6	TEXAS	STP 2021(929)TP CONTROL SECTION NO. NO.)TP	VA	
STATE DISTRICT	COUNTY			JOB NO.	SHEET NO.	
FTW	TARRANT	0902	90	082	309	

A. GENERAL SITE DATA

1. PROJECT LIMITS: SAME AS STATED ON THE TITLE SHEET

	70.004077	07.005740
LATTITUDE:	32.6916/3	LONGITUDE: -97.085310

2. PROJECT SITE MAPS:

- * Pro lect Location Map: SHEETS NO. 113, 137, 198
- * Drainage Patterns: NOT APPLICABLE
- * Approx. Slopes Anticipated After Major Gradings and Areas of Soil Disturbance: NOT APPLICABLE
- * Major Controls and Locations of Stabilization Practices: (Sheets X-Y) NOT APPLICABLE
- * Project Specific Locations:
- OFFSITE WASTE, BORROW, OR STORAGE AREAS ARE NOT PART OF THIS SW3P.
- * Surface Waters and Discharge Locations: Drainage and Culvert Layout Sheets NOT APPLICABLE

3. PROJECT DESCRIPTION:

SAME AS STATED ON THE TITLE SHEET

4. MAJOR SOIL DISTURBING ACTIVITIES:

REMOVAL OF EXISTING SIDEWALK AND GRADING FOR NEW SIDEWALK.

5. EXISTING CONDITION OF SOIL & VEGETATIVE COVER AND % OF EXISTING VEGETATIVE COVER

EXISTING VEGITATIVE COVER (100% GRASS SODDING) IS THICK AND UNIFORMLY ESTABLISHED (EXISTING PARKWAY).

- 6. TOTAL PROJECT AREA: 6.55 ACRES
- 7. TOTAL AREA TO BE DISTURBED: 6.55 ACRES (100% OF TOTAL PROJECT AREA)

8. WEIGHTED RUNOFF COEFFICIENT

BEFORE CONSTRUCTION: 0.85 AFTER CONSTRUCTION:

9. NAME OF RECEIVING WATERS:

10. ENDANGERED SPECIES, DESIGNATED CRITICAL HABITAT AND HISTORIC PROPERTY:

A. No Endangered Species, Designated Critical Habitat or Historic Property has been found on this project site.

B. EROSION AND SEDIMENT CONTROLS

1. SOIL STABILIZATION PRACTICES:

____ PRESERVATION OF NATURAL RESOURCES ____ TEMPORARY SEEDING MULCHING (Hay or Straw) FLEXIBLE CHANNEL LINER BUFFER ZONES RIGID CHANNEL LINER PLANTING SOIL RETENTION BLANKET COMPOST MANUFACTURED TOPSOIL SEEDING SODDING OTHER: (Specify Proctice)

2. STRUCTURAL PRACTICES:

(Select T = Temporary or P = Permanent, as applicable)

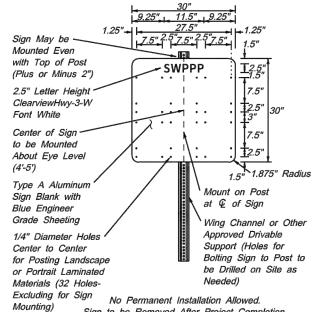
(Select T = Temporary or P = Permanent, as applicable)

SILT FENCES	DIVERSION, INTERCEPTOR, OR PERIMETER DIKES
HAY BALES	DIVERSION, INTERCEPTOR, OR PERIMETER SWALE
ROCK FILTER DAMS	DIVERSION DIKE AND SWALE COMBINATIONS
PIPE SLOPE DRAINS	ROCK BEDDING AT CONSTRUCTION EXIT
PAVED FLUMES	TIMBER MATTING AT CONSTRUCTION EXIT
CHANNEL LINERS	STONE OUTLET STRUCTURES
SEDIMENT TRAPS	VELOCITY CONTROL DEVICES
SEDIMENT BASINS	CURBS AND GUTTERS
STORM SEWERS	<u> </u>
OTHER: (Specify Practice)	

- 3. STORM WATER MANAGEMENT: (Example Below May be used as applicable, revised or expanded)
 - I. Storm water drainage will be provided by the ditches, inlets and storm water systems that will carry drainage within the R.O.W. to the low points within the roadway and project site which drain to natural facilities.
 - 2. Other permanent erosion controls include hydraulic design to limit structure outlet velocities and grading design generally consisting of 4:1 or flatter slopes with permanent vegetative cover.
- 4. STORM WATER MANAGEMENT ACTIVITIES: (Sequence of Construction)

(Describe Storm Water Management Activities by Phases)

STORM WATER POLLUTION PREVENTION PLAN PERMIT POSTING



Sign to be Removed After Project Completion.

5. NON-STORM WATER DISCHARGES:

Non-storm water discharges should be filtered, or held in retention basins, before being allowed to mix with storm water. These discharges consist of non-polluted ground water, spring water, foundation and/or footing drain water; and water used for dust control, pavement washing and vehicle washwater containing no detergents.

C. OTHER REQUIREMENTS & PRACTICES

1. MAINTENANCE:

All erosion and sediment controls shall be maintained in good working order. If a repair is necessary, it shall be performed at the earliest date possible but no later than 7 calendar days after the surrounding exposed ground has dried sufficiently to prevent further damage from heavy equipment. Disturbed areas on which construction activities have ceased, temporarily or permanently, shall be stabilized within 14 calendar days unless they are scheduled to and do resume within 2I calendar days. The areas adjacent to creeks and drainageways shall have priority followed by devices protecting storm sewer inlets.

2. INSPECTION:

An inspection shall be performed by a TxDOT inspector every every I4 calendar days as well as within 24 hours after any rainfall of one-half inch or more is recorded on a non-freezing rain gauge to be located at the project site, or every 7 calendar days. An inspection and Maintenance Report shall be filed for each inspection. Based on the inspection results, the controls shall be revised in accordance with the inspection report.

3. WASTE MATERIALS:

Except as noted below, all waste materials shall be collected in a metal dumpster having a secure cover. The dumpster shall meet all state and local solid waste management regulations. All trash and debris from construction shall be deposited in the dumpster. The dumpster shall be emptied, as necessary or as required by local regulation, and hauled to a local approved land fill site. The burying of construction waste on the project site shall not be permitted.

Concrete washout areas shall be required and shall consist of a pit, lined with an impervious material, of sufficient size to contain, until evaporation, all water used and washout material produced during concrete washout operations. The concrete washout locations shall be as directed by the engineer.

Lime slaking tanks shall be surrounded by a earthen berm, capable of containing any overflow.

4. HAZARDOUS WASTE (INCLUDING SPILL REPORTING):

As a minimum, any products in the following categories are considered to be hazardous: paints, acids, solvents, asphalt products, chemical additives for soil staibilization and concrete curing compounds or additivities. In the event of a spill which may be hazardous, the spill coordinator shall be contacted immediately.

5. SANITARY WASTE:

All sanitary waste shall be collected from the portable units, as necessary or as required by local regulation, by a licensed sanitary waste management contractor.

6. OFFSITE VEHICLE TRACKING:

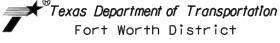
The Contractor shall be required, on a regular basis or as may be directed by the Engineer, to dampen haul roads for dust control, stabilize construction entrances and to remove excess dirt from the roadway.

- 7. MANAGEMENT PRACTICES: (Example Below May be used as applicable, revised or expanded)
 - I. Disposal areas, stockpiles and haul roads shall be constructed in a manner that will minimize and control the amount of sediment that may enter receiving waters. Disposal areas shall not be located in any wetland, waterbody or streambed.
 - 2. Construction staging areas and vehicle maintenance areas shall be constructed by the Contractor in a manner to minimize the runoff of pollutants.
 - 3. All temporary fills placed in waterways shall be built of erosion resistant material. (NWP 14)
 - 4. All waterways shall be cleared as soon as practicable of temporary embankment, temporary bridges, matting, falsework, piling, debris or other obstructions placed during construction operations that are not a part of the finished work.

8. OTHER:

- I. Listing of construction materials stored on site to be provided by Project Field Office.
- 2. The Project SW3P File located at the project field office shall contain the N.O.I., CGP Coverage Notice, TCEQ TPDES Form, Standard Authorization, Certification/Qualification Statements, Inspection Reports, Required Maps, and a copy of the TPDES General Permit No. TXRI50000.

Design Consultant Logo here - delete block if not applicable



STORM WATER POLLUTION PREVENTION PLAN (SW3P)

FTW NEW	FED.RD. DIV.NO.	FEDER	FEDERAL AID PROJECT NO.	
9/02	6			N/A
VISIONS	STATE	DISTRICT	COUNTY	SHEET NO.
008 ES to TPDES rify Note	TEXAS	FTW	TARRANT	
012	CONTROL	SECTION	JOB	310
ed sign. 013	0902	90	082	

I. STORMWATER POLLUTION PR	REVENTION-CLEAN WATER	ACT SECTION 402	111.	CUL TUF
TPDES TXR 150000: Stormwater required for projects with 1 disturbed soil must protect Item 506.	or more acres disturbed so	il. Projects with any		Refer t archeol archeol work in
List MS4 Operator(s) that ma They may need to be notified				WOLK III
1.				Actio
2.				
No Action Required	Required Action			1.
Action No.				2.
 Prevent stormwater pollut accordance with TPDES Per 		and sedimentation in		3.
Comply with the SW3P and required by the Engineer.	revise when necessary to co	ontrol pollution or		4.
3. Post Construction Site No the site, accessible to t	tice (CSN) with SW3P inform he public and TCEQ, EPA or		14.	Preserv Contract
 When Contractor project s area to 5 acres or more, 	pecific locations (PSL's) i submit NOI to TCEQ and the			164, 19 invasiv
II. WORK IN OR NEAR STREAM		TLANDS CLEAN WATER		⊠ N
USACE Permit required for f		-		Actio
The Contractor must adhere				1.
the following permit(s):				2.
No Permit Required				3.
Nationwide Permit 14 - P wetlands affected)	CN not Required (less than	1/10th acre waters or		4.
Nationwide Permit 14 - P	CN Required (1/10 to <1/2 o	acre, 1/3 in tidal waters)		
☐ Individual 404 Permit Re	quired		v.	FEDER
Other Nationwide Permit	Required: NWP#			AND M
Required Actions: List water and check Best Management Pr and post-project TSS.				_ N
1.				Actio
2.				1. M
				B B
3.				C P M
4.				77 /A
The elevation of the ordinar to be performed in the water permit can be found on the E	rs of the US requiring the	· •		2. S
Best Management Practice	es:			any of
Erosion	Sedimentation	Post-Construction TSS		rk may resting se
☐ Temporary Vegetation	Silt Fence	☐ Vegetative Filter Strips	ar	e discov
Blankets/Matting	Rock Berm	Retention/Irrigation Systems	"	igineer i
Mulch	☐ Triangular Filter Dike	Extended Detention Basin		
Sodding	Sand Bag Berm	Constructed Wetlands		
	Straw Bale Dike	Wet Basin		
☐ Diversion Dike ☐ Erosion Control Compost	☐ Brush Berms ☐ Erosion Control Compost	☐ Erosion Control Compost ☐ Mulch Filter Berm and Socks		
Mulch Filter Berm and Socks	Mulch Filter Berm and Socks	Compost Filter Berm and Socks		
Compost Filter Berm and Socks				
_	Stone Outlet Sediment Traps	Sand Filter Systems		
	Sediment Basins	Grassy Swales		

RAL RESOURCES

to TxDOT Standard Specifications in the event historical issues or ogical artifacts are found during construction. Upon discovery of logical artifacts (bones, burnt rock, flint, pottery, etc.) cease the immediate area and contact the Engineer immediately.

No Action Required	Required Action
Action No.	
1.	
2.	
_	

ATION RESOURCES

ve native vegetation to the extent practical. ctor must adhere to Construction Specification Requirements Specs 162, 92, 193, 506, 730, 751, 752 in order to comply with requirements for ve species, beneficial landscaping, and tree/brush removal commitments.

No Action Required	☐ Required Action
Action No.	
1.	
2.	
3	

AL LISTED. PROPOSED THREATENED. ENDANGERED SPECIES. CAL HABITAT, STATE LISTED SPECIES, CANDIDATE SPECIES IGRATORY BIRDS.

No	Action	Required	

Required Action

on No.

MIGRATORY BIRD TREATY ACT (MBTA): BETWEEN OCTOBER 1 AND FEBRUARY 15, THE CONTRACTOR WOULD REMOVE ALL OLD MIGRATORY BIRD NESTS FROM ANY STRUCTURE THAT WOULD BE AFFECTED BY THE PROPOSED PROJECT, AND GIRLD NESTS FROM ANY STRUCTURE THAT WOULD BE AFFECTED BY THE PROPUSED PROJECT, AND COMPLETE DEMOLITION AND/OR VEGETATION CLEANING, IN ADDITION, THE CONTRACTOR SHALL BE PREPARED TO PREVENT MIGRATORY BIRDS FROM BUILDING NESTS BY UTILIZING NEST PREVENTION METHODS SUCH AS BIRD REPELLING SPRAYS BETWEEN FEBRUARY 15 AND OCTOBER I. IN THE EVENT THAT MIGRATORY BIRDS ARE ENCOUNTERED ON—SITE DURING PROJECT CONSTRUCTION, ADVERSE MPACTS ON PROTECTED BIRDS ACTIVE NESTS, EGGS, AND/OR YOUNG SHOULD BE AVOIDED.

SEE ITEM NO. 5 IN GENERAL NOTES.

the listed species are observed, cease work in the immediate area, sturb species or habitat and contact the Engineer immediately. The not remove active nests from bridges and other structures during eason of the birds associated with the nests. If caves or sinkholes vered, cease work in the immediate area, and contact the immediately.

VI. HAZARDOUS MATERIALS OR CONTAMINATION ISSUES

General (applies to all projects):

Comply with the Hazard Communication Act (the Act) for personnel who will be working with hazardous materials by conducting safety meetings prior to beginning construction and making workers aware of potential hazards in the workplace. Ensure that all workers are provided with personal protective equipment appropriate for any hazardous materials used. Obtain and keep on-site Material Safety Data Sheets (MSDS) for all hazardous products used on the project, which may include, but are not limited to the following categories: Paints, acids, solvents, asphalt products, chemical additives, fuels and concrete curing compounds or additives. Provide protected storage, off bare ground and covered, for products which may be hazardous. Maintain product labelling as required by the Act. Maintain on adequate supply of on-site spill response materials, as indicated in the MSDS, In the event of a spill, take actions to mitigate the spill as indicated in the MSDS, in accordance with safe work practices, and contact the District Spill Coordinator immediately. The Contractor shall be responsible for the proper containment and cleanup of all product spills.

Contact the Engineer if any of the following are detected:

- * Dead or distressed vegetation (not identified as normal)
- Trash piles, drums, canister, barrels, etc.
- * Undesirable smells or odors
- * Evidence of leaching or seepage of substances

No

Does the project involve any bridge class structure rehabilitation or replacements (bridge class structures not including box culverts)?

Yes	\boxtimes
-----	-------------

If "No", then no further action is required.

If "Yes", then TxDOT is responsible for completing asbestos assessment/inspection.

Are the results of the asbestos inspection positive (is asbestos present)?

Yes	☐ No
-----	------

If "Yes", then TxDOT must retain a DSHS licensed asbestos consultant to assist with the notification, develop abatement/mitigation procedures, and perform management activities as necessary. The notification form to DSHS must be postmarked at least 15 working days prior to scheduled demolition.

If "No", then TxDOT is still required to notify DSHS 15 working days prior to any scheduled demolition.

In either case, the Contractor is responsible for providing the date(s) for abatement activities and/or demolition with careful coordination between the Engineer and asbestos consultant in order to minimize construction delays and subsequent claims.

Any other evidence indicating possible hazardous materials or contamination discovered on site. Hazardous Materials or Contamination Issues Specific to this Project:

No Action Required	Required Action
Action No.	
1.	
2.	
3.	

VII. OTHER ENVIRONMENTAL ISSUES

(includes regional issues such as Edwards Aquifer District, etc.)

\bowtie	No	Action	Requi	red

Required Action

Act	ion	No.
-----	-----	-----

1.

2.



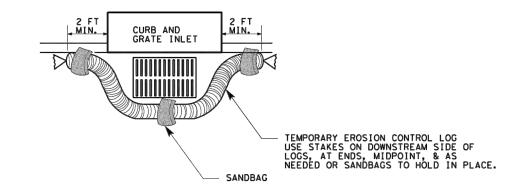
ENVIRONMENTAL PERMITS. ISSUES AND COMMITMENTS

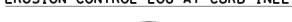
FPIC

LE: epic.dgn	DN: TxDOT		ck: RG	DW: \	/P	ck: AR
TxDOT: February 2015	CONT	SECT	JOB	HIG		SHWAY
REVISIONS 12-2011 (DS)	0902	90	082	082		I/A
07-14 ADDED NOTE SECTION IV.	DIST	DIST COUNTY				SHEET NO.
23-2015 SECTION I (CHANGED ITEM 1122 ITEM 506, ADDED GRASSY SWALES.	FTW	W TARRANT				311

(CL -GI)

EROSION CONTROL LOG AT CURB & GRADE INLET







-2 SAND BAGS

6" CURB-

ROADWAY

2 SAND BAGS

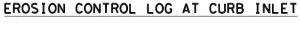
TEMP. EROSION CONTROL LOG

OVERLAP ENDS TIGHTLY 24" MINIMUM

COMPLETELY SURROUND DRAINAGE ACCESS TO AREA DRAIN INLETS WITH EROSION CONTROL LOG

- FLOW

-STAKE OR USE SANDBAGS ON DOWNHILL SIDE OF LOG AS NEEDED TO HOLD IN PLACE (TYPICAL)





EROSION CONTROL LOG AT DROP INLET

(CL-DI)

SECURE END OF LOG TO STAKE AS DIRECTED

TEMP. EROSION-CONTROL LOG

FLOW





CURB

TEMP. EROSION CONTROL LOG

SANDBAG





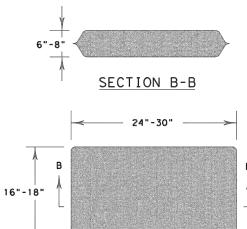


EROSION CONTROL LOGS USED AT CURB INLETS SHOULD ONLY BE USED IF THEY WILL NOT IMPEDE TRAFFIC OR FLOOD THE ROADWAY OR WHEN THE

NOTE:

USE STAKES ON DOWNSTREAM SIDE OF LOGS, AT ENDS, MIDPOINT, & AS NEEDED OR SANDBAGS TO HOLD IN PLACE.

STORM SEWER SYSTEM IS NOT FULLY FUNCTIONAL.



SANDBAG DETAIL

Texas Department of Transportation

CURB INLET _INLET EXTENSION

TEMPORARY EROSION, SEDIMENT AND WATER POLLUTION CONTROL MEASURES **EROSION CONTROL LOG**

FC (9) -16

EC (3) - 10						
FILE: ec916	DN: TxD	OT	ск: КМ	DW: LS/P	T CK: LS	
© TxDOT: JULY 2016	CONT	SECT	JOB	HIGHWAY		
REVISIONS	0902	90	082		N/A	
	DIST	COUNTY			SHEET NO.	
	FTW		TARRAN	Т	312	