WILLIAMSON COUNTY, TEXAS CHANGE ORDER NUMBER: 1

		Project:	24IFB19
to Sta.	1133+50.00	Roadway:	E Wilco Hwy
Mino	r _(Major/Minor)	CSJ Number:	N/A
er of import	ance - Primary first)		
as address on of the sh	ing the roadway name nared use path, and a	e change. This Cl	nange Order also
See Attac	hed		
red:	14A,135A,135B,	153A,153B,153	C,153D,153E
are attach	ed: 🗆 Yes	s ☑ N	0
cia l Speci	fication Item N/A	are attached.	
•	· · · · · · · · · · · · · · · · · · ·	er (CO).	
			provided
e	J		•
Amou	nt added by this cha	ange order:	\$29,920.92
	County Commiss		
	APPROVED	□ REQU	
			JEST APPROVAL
-	County Commiss	sioner Precinct 2	
	County Commiss		2 Date
	APPROVED		
	APPROVED		2 Date JEST APPROVAL
□ Valerie (APPROVED Covey	□ REQU	2 Date JEST APPROVAL May 8, 202
Valerie (APPROVED	□ REQU	2 Date JEST APPROVAL May 8, 202
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Valerie (APPROVED Covey County Commiss APPROVED	REQUISIONER Precinct 3	Date JEST APPROVAL May 8, 2024 B Date JEST APPROVAL
	Mino er of importation der compete as address and of the sheetion of Co See Attact red: are attach acial Speciently to execute the Amountain Amoun	Minor (Major/Minor) er of importance - Primary first) der compensates the Contractor as addressing the roadway name on of the shared use path, and at ection of CR 138 and SH 130. See Attached red: 14A,135A,135B, are attached: Yes ecial Specification Item N/A ty to execute this Change Order The following information and the contraction of the shared in the contraction of the contraction of the contraction of the contracti	Minor (Major/Minor) The following information must be a county Commissioner Precinct of County C

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: 1	Project # 24IFB19
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TABLE A: Force Account Work and Materials Placed into Stock

LABOR	HOURLY RATE		HOURLY RATE	

TABLE B: Contract Items:

				ORIGINAL + PREVIOUSLY REVISED ADD or (DEDUCT)		ADD or (DEDUCT)	l	NEW	
ITEM	DESCRIPTION	UNIT	UNIT PRICE	QUANTITY	ITEM COST	QUANTITY	QUANTITY	ITEM COST	OVERRUN/ UNDERRUN
644-6061	IN SM RD SN SUP&AM TYTWT(1)WS(T)	EA	\$720.00	12.00	\$8,640.00	2.00	14.00	\$10,080.00	\$1,440.00
450-6052	RAIL (HANDRAIL)(TY F)	LS	\$11,804.71	0.00	\$0.00	1.00	1.00	\$11,804.71	\$11,804.71
644-6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	EA	\$1,270.38	0.00	\$0.00	2.00	2.00	\$2,540.76	\$2,540.76
644-6033	IN SM RD SN SUP&AM TYS80(1)SA(U)	EA	\$2,073.67	0.00	\$0.00	2.00	2.00	\$4,147.34	\$4,147.34
690-6029	INSTALL OF SIGNAL RELATED SIGNS	EA	\$2,524.155	0.00	\$0.00	2.00	2.00	\$5,048.31	\$5,048.31
999-WC02	REMOVE & REPLACE EXISTING SIGN	SF	\$59.42	0.00	\$0.00	6.30	6.30	\$374.35	\$374.35
999-WC03	LAW ENFORCEMENT - TRAFFIC CONTROL	LS	\$4,565.45	0.00	\$0.00	1.00	1.00	\$4,565.45	\$4,565.45
ш	TOTALS				\$8,640.00			\$38,560.92	\$29,920.92

CHANGE ORDER REASON(S) CODE CHART

Design Error or Omission	1A. Incorrect PS&E
	1B. Other
2. Differing Site Conditions	2A. Dispute resolution (expense caused by conditions and/or resulting delay)
(unforeseeable)	2B. Unavailable material
	2C. New development (conditions changing after PS&E completed)
	2D. Environmental remediation
	2E. Miscellaneous difference in site conditions (unforeseeable)(Item 9)
	2F. Site conditions altered by an act of nature
	2G. Unadjusted utility (unforeseeable)
	2H. Unacquired Right-of-Way (unforeseeable)
	2I. Additional safety needs (unforeseeable)
	2J. Other
3. County Convenience	3A. Dispute resolution (not resulting from error in plans or differing site conditions)
	3B. Public relations improvement
	3C. Implementation of a Value Engineering finding
	3D. Achievement of an early project completion
	3E. Reduction of future maintenance
	3F. Additional work desired by the County
	3G. Compliance requirements of new laws and/or policies
	3H. Cost savings opportunity discovered during construction
	3I. Implementation of improved technology or better process
	3J. Price adjustment on finished work (price reduced in exchange for acceptance)
	3K. Addition of stock account or material supplied by state provision
	3L. Revising safety work/measures desired by the County
	3M. Other
4. Third Party Accommodation	4A. Failure of a third party to meet commitment
	4B. Third party requested work
	4C. Compliance requirements of new laws and/or policies (impacting third party)
	4D. Other
5. Contractor Convenience	5A. Contractor exercises option to change the traffic control plan
	5B. Contractor requested change in the sequence and/or method of work
	5C. Payment for Partnering workshop
	5D. Additional safety work/measures desired by the contractor
	5E. Other
6. Untimely ROW/Utilities	6A. Right-of-Way not clear (third party responsibility for ROW)
	6B. Right-of-Way not clear (County responsibility for ROW)
	6C. Utilities not clear
	6D. Other

Williamson County Road Bond Program

CR 138 Right Turn Lane at SH 130 Williamson County Project No. 24IFB19

Change Order No. 1

Reason for Change

This Change Order adds additional signs to the project to increase the safety along the roadway and updates the roadway street name signs from CR 138 to East WilCo Hwy. This Change Order also adds a pedestrian handrail to increase the safety along a section of the shared use path where the slope is too steep, due to the limited ROW.

Lastly, the Change Order adds a line item for law enforcement presence during nighttime lane closure operations at CR 138 and SH 130. Due to the amount of traffic and the location of the project, it was determined that this would be the safest most effective way to perform the final paving operation.

Following is a summary of new items required for this Change Order.

ITEM	DESCRIPTION	QTY	UNIT
450-6052	RAIL (HANDRAIL)(TY F)	1.0	LS
644-6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	2.0	EA
644-6033	IN SM RD SN SUP&AM TYS80(1)SA(U)	2.0	EA
690-6029	INSTALL OF SIGNAL RELATED SIGNS	2.0	EA
999-WC02	REMOVE & REPLACE EXISTING SIGN	6.30	SF
999-WC03	LAW ENFORCEMENT - TRAFFIC CONTROL	1.0	LS

This Change Order results in a net increase of \$29,920.92 to the Contract amount, for an adjusted Contract total of \$1,778,859.67. The original Contract amount was \$1,748,938.75. As a result of this and all Change Orders to-date, \$29,920.92 has been added to the Contract, resulting in an 1.71% net increase in the Contract cost. No additional days will be added to or deducted from the Contract as a result of this Change Order.

HNTB Corporation

Oscar Salazar-Bueno, P.E.





PROJECT: CR 138 Right Turn Lane at SH 130

DATE: DESCRIPTION:

LABOR

4/18/2024

This proposal is for the addition of 42LF of TxDOT Ty F Pedestrian Railing. Expected lead time for fabrication of railing is 16 weeks from the time of approved shop drawings. Proposed cost for installation of new ped-rail is \$11,804.71.

F

	HOURS WORKED								
RATE	1	2	3	4	5	6	7	TOTAL	RATE * TOTAL HOURS
\$ 75.00								0.0	\$ -
\$ 55.00								0.0	\$ -
\$ 50.00	10							10.0	\$ 500.00
\$ 30.00	10							10.0	\$ 300.00
\$ 28.00								0.0	\$ -
\$ 26.00								0.0	\$ -
\$ 26.00	10	10						20.0	\$ 520.00
\$ 24.00								0.0	\$ -
\$ 24.00								0.0	\$ -
\$ 24.00								0.0	\$ -
\$ 27.00								0.0	\$ -
\$ 27.00								0.0	\$ -
\$ 75.00								0.0	\$ -
\$ 45.00								0.0	\$ -
\$ 42.00								0.0	\$ -
\$ 39.00								0.0	\$ -
\$ 39.00								0.0	\$ -
\$ 36.00								0.0	\$ -
\$ 36.00								0.0	\$ -
\$ 36.00								0.0	\$ -
\$ 40.50								0.0	\$ -
\$ 40.50								0.0	\$ -
	\$ 75.00 \$ 55.00 \$ 50.00 \$ 30.00 \$ 28.00 \$ 26.00 \$ 24.00 \$ 24.00 \$ 27.00 \$ 27.00 \$ 27.00 \$ 27.00 \$ 39.00 \$ 39.00 \$ 36.00 \$ 36.00	\$ 75.00 \$ 55.00 \$ 50.00 10 \$ 30.00 10 \$ 28.00 \$ 26.00 \$ 26.00 10 \$ 24.00 \$ 24.00 \$ 24.00 \$ 27.00 \$ 27.00 \$ 27.00 \$ 36.00 \$ 36.00 \$ 36.00 \$ 36.00 \$ 36.00	\$ 75.00 \$ 55.00 \$ 50.00 \$ 30.00 \$ 30.00 \$ 28.00 \$ 26.00 \$ 26.00 \$ 24.00 \$ 24.00 \$ 24.00 \$ 27.00 \$ 27.00 \$ 27.00 \$ 27.00 \$ 39.00 \$ 39.00 \$ 39.00 \$ 36.00 \$ 36.00 \$ 36.00 \$ 36.00 \$ 36.00 \$ 36.00	RATE 1 2 3 \$ 75.00 \$ 55.00 \$ 50.00 10 \$ 30.00 10 \$ 28.00 \$ 26.00 \$ 26.00 \$ 24.00 \$ 24.00 \$ 27.00 \$ 27.00 \$ 37.00 \$ 39.00 \$ 39.00 \$ 39.00 \$ 39.00 \$ 36.00 \$ 36.00 \$ 36.00 \$ 36.00 \$ 36.00 \$ 36.00 \$ 36.00 \$ 36.00	RATE 1 2 3 4 \$ 75.00 \$ 55.00 \$ 55.00 \$ 50.00 10 \$ 50.00 10 \$ 30.00 10 \$ 28.00 \$ 28.00 \$ 26.00 \$ 26.00 \$ 26.00 \$ 26.00 \$ 24.00 \$ 24.00 \$ 24.00 \$ 24.00 \$ 24.00 \$ 27.00 \$ 27.00 \$ 27.00 \$ 27.00 \$ 30.00 \$ 39.00 \$ 39.00 \$ 39.00 \$ 39.00 \$ 36.00 \$ 36.00 \$ 36.00 \$ 36.00 \$ 40.50	RATE 1 2 3 4 5 \$ 75.00 \$ 55.00 \$ 55.00 10 \$ 30.00 10 \$ 30.00 10 \$ 28.00 \$ 26.00 \$ 26.00 10 \$ 24.00 \$ 24.00 \$ 24.00 \$ 27.00 \$ 27.00 \$ 375.00 \$ 42.00 \$ 39.00 \$ 39.00 \$ 39.00 \$ 39.00 \$ 36.00 \$ 36.00 \$ 36.00 \$ 36.00 \$ 36.00	RATE 1 2 3 4 5 6 \$ 75.00 \$ 55.00 \$ 50.00 10 \$ 30.00 10 \$ 28.00 \$ 26.00 \$ 26.00 10 \$ 24.00 \$ 24.00 \$ 24.00 \$ 27.00 \$ 27.00 \$ 375.00 \$ 42.00 \$ 39.00 \$ 36.00	RATE 1 2 3 4 5 6 7 \$ 75.00	RATE 1 2 3 4 5 6 7 TOTAL \$ 75.00 0.0

LABOR SUBTOTAL \$ 1,320.00

PER DIEM

	Unit Cost						QTY	COST
SCCI Per Diem	\$ -	-	-	1	1	ı	0.0	\$

PER DIEM SUBTOTAL \$

MATERIALS

	UNIT COST	UNIT	DESCRIPTION	QTY	COST
Lauren	\$ 141.00	CY	Concrete Class A	2.0	\$ 282.00
TX Corrugators	\$ 153.60	FT	RAIL (HANDRAIL)(TY F)	42.0	\$ 6,451.20
RSS	\$ 80.00	LS	Rebar (#3 & #4)	1.0	\$ 80.00
				0.0	\$ -

MATERIAL SUBTOTAL \$ 6,813.20

SUBCONTRACTORS

UNIT COST UNIT DESCRIPTION QTY COST

\$
SUBCONTRACTOR SUBTOTAL \$ -

UNIT RATE

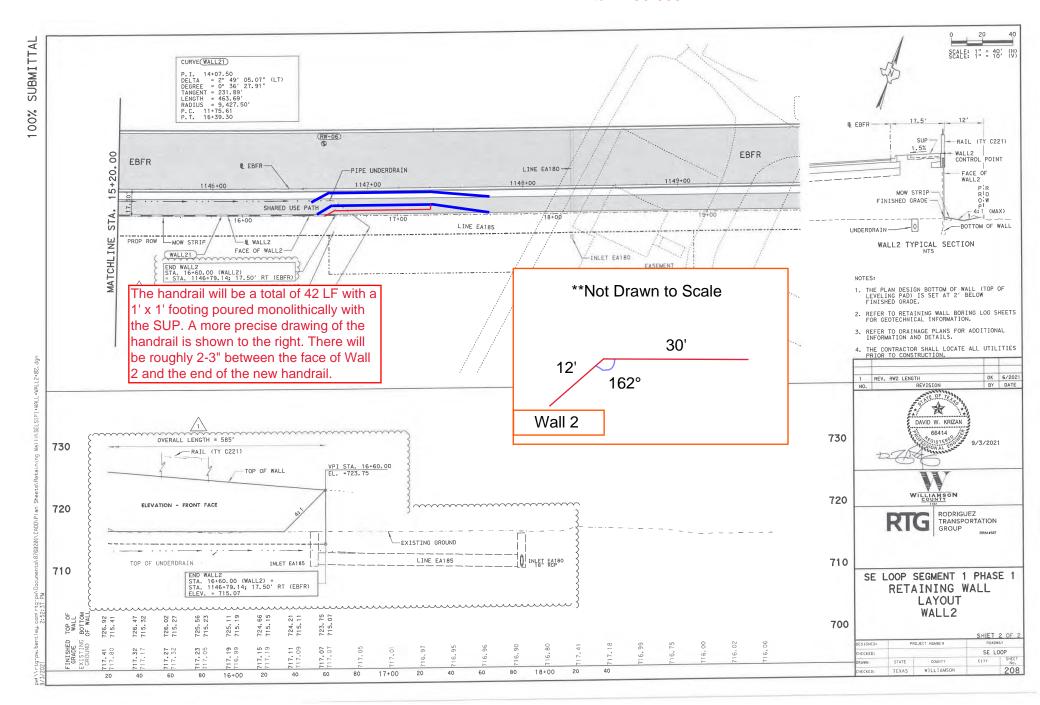
	UNIT COST	UNIT	DESCRIPTION	QTY	COST	
Smith	\$ 500.00	EA	Remobilization Fee	1.0	\$ 500.0	0
Smith	\$ 333.33	WD	Traffic Control	1.0	\$ 333.3	3
					\$	
			LINIT PATE	SUBTOTAL	¢ 833.3	3

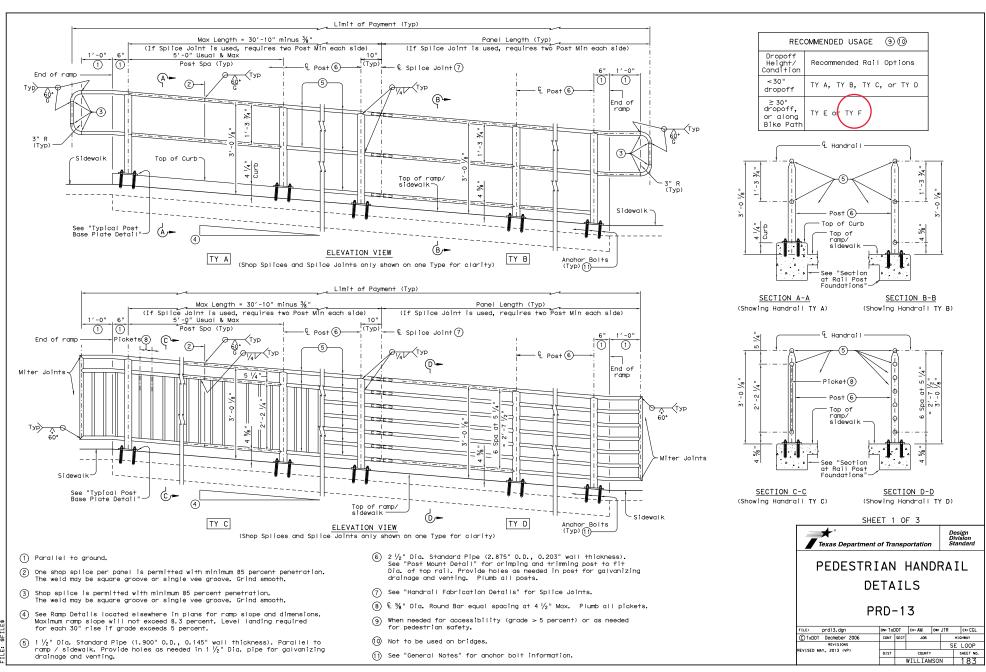
EQUIPMENT

		HOURS WORKED								RATE TIMES	
	RATE	1	2	3	4	5	6	7	TOTAL	TOTAL HRS.	
Skid Steer	\$ 46.34	10.0							10.0	\$	463.40
Generator	\$ 20.00	10.0							10.0	\$	200.00
Handtools	\$ 7.50	10.0							10.0	\$	75.00
									0.0	\$	-
									0.0	\$	-

EQUIPMENT SUBTOTAL \$ 738.40

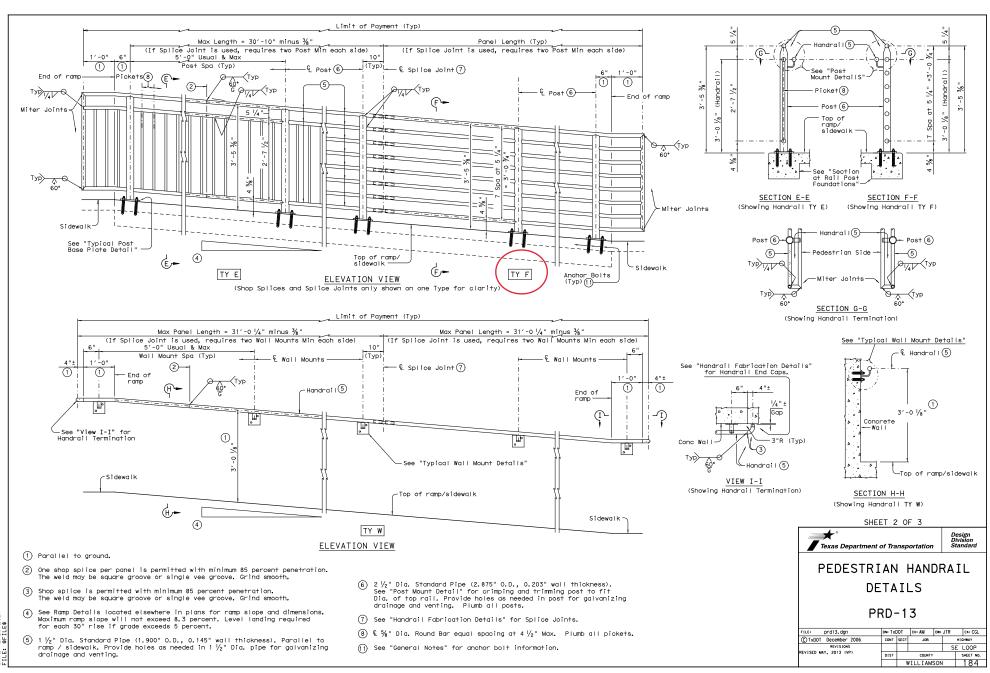
Additional Time Requested (Working Days) 0 LABOR SUBTOTAL		\$ 1,320.00
LABOR BURDEN	55%	\$ 726.00
LABOR PROFIT & OVERHEAD	15%	\$ 198.00
PER DIEM		\$ -
MATERIAL SUBTOTAL		\$ 6,813.20
MATERIALS PROFIT AND OVERHEAD	15%	\$ 1,021.98
SUB CONTRACTOR SUBTOTAL		\$ -
GC PROFIT AND OVERHEAD ON SUBS	5%	\$ -
UNIT RATE		\$ 833.33
EQUIPMENT		\$ 738.40
EQUIPMENT MARKUP	5%	\$ 36.92
SUBTOTAL		\$ 11,687.83
BONDING COST	1%	\$ 116.88
TOTAL		\$ 11,804.71





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

DATE: 2/23/2021



DISCLAIDS use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any kind is made by TXD0T for any purpose windscewer TXD0T assumes no responsibility for the conversion of this standard to other formats or for Incorrect results or damages resulting from its use.

2/23/2021 \$FILE\$

GENERAL NOTES

Landina

Ramp

Post Spacing 5'-0" Max

MULTI-LEVEL RAMP

Post Spa

-0" Max (Typ)

(Typ)

Designed according to ADAAG, Texas Accessibility Standards, Uniform Building Code, and AASHTO LRFD Specifications.

Continuous →

Max -

Landing

Post Spacing 5'-0" Max

SINGLE-LEVEL RAMP

Handrail anchorage details shown on this standard may require modification for select structure types. See appropriate details elsewhere in plans for these modifications.

Pipe will conform to ASTM-A53 Grade B or A500 Grade B. Steel plates and steel bars will conform to ASTM-A36. Mechanical tubing (MT) will conform to ASTM-A36. Mechanical tubing (MT) will conform to ASTM-A513 Grade 1015 or higher. Galvanize all steel components except reinforcing steel unless noted otherwise.

Concrete for foundations will be in accordance with Item 531 "Sidewalks". All reinforcing steel must be Grade 60. Bar laps, where required, will be as follows: Uncoated \sim #4 = 1'-5" Epoxy coated \sim #4 = 2'-1"

When the plans require painted steel, follow the requirements for painting galvanized steel in Item 446, "Cleaning and Painting Steel". Sleeve Members will receive galvanization and only get field painted after installation unless directed otherwise by Engineer.

Epoxy Anchor bolts for wall mount and post base plate will be $\frac{5}{8}$ " Dia, ASIM A36 threaded rods with one hex nut and one hardened steel washer at each bolt. $\frac{5}{8}$ Dia, threaded rod embedment depth for wall mounts is 3 $\frac{1}{2}$ and embedment depth for post base plate is 5".

Embed threaded rods into concrete with a Type III (Class C) epoxy meeting the requirements of DMS-6100, "Epoxles and Adhesives". MIx and dispense adhesive with the manufacturer's static mixing nozzle/dual cartridge system. Core drill holes (percussion drilling not permitted).

At the contractor's option the post base plate anchor bolts may be cast with the Ramp/Sidewalk (See Cast-in-Place Anchor Bolt Options).

Optional cast-in-place anchor bolts will be $\frac{5}{4}$ " Dia ASTM A307 Grade A bolts (or A36 threaded rods with one tack welded hex nut each) with one hex nut and one hardened steel washer at each bolt. Embedment depth of cast-in-place bolt will be $8^{\prime\prime}$ for post base plate,

Handrails and any wall or other surface adjacent to them will be free of any sharp or abrasive elements.

Submit shop drawings to the Engineer unless otherwise noted. For curved handrail applications, fobricate the handrail to the curve if radius is less than 600 ft. Shop drawings are required when rail is fabricated to the curve.

For all handrails, erection drawings will be submitted to the Engineer for approval to ensure proper installation.

Drawings will show handrail mount locations with bolts setting, spacing, ramp slope, and/or splice joint locations, and handrail lengths with identification showing where each handrail goes on the layout.

Payment for concrete sidewalks or curb ramps will be paid for in accordance with Item 531 "Sidewalks".

Payment for all items shown is to be included in unit price bid in accordance with Item 450 "Railing" of the type specified.

All exposed edges will be rounded or chamfered to approximately $\frac{1}{8}$ by grinding.





DETAILS

PRD-13

FILE: prd13, dgn	DN: Txl	TOC	CK: AM	CK: AM DW:		cx: CGL	
CTxDOT December 2006	CONT	SECT	JOB		H	CHNAY	
REVISIONS					SE	SE LOOP	
REVISED MAY, 2013 (VP)	DIST		COUNTY		SHEET NO.		
		١ ١	WILLIAM	SO	N	185	





Item 450-6052

Quote #86589

Version #3

Original Date:

04/08/2024

Revised Date: 04/18/2024

Submitted To:

M A Smith Contracting Co, Inc.

Address:

15308 GINGER ST,

Austin, TX 78728-0000

(512) 990-7640

04/08/2024

Phone No: Letting Date:

Phone No:

Project Name: Project No:

TX_Williamson_na_na CR 138 Right Turn Lane

Control No:

CR 138 Right Turn Lane

Location:

CR 138 Right Turn LAne

Working Days:

Engineer:

We are pleased to offer the following proposal for your consideration:

Item No	Item Description	ety	Unit	Unit Price (\$)	Total Price (\$)
0450 2077	RAIL (HANDRAIL)(TY F)	42.00	LF	153.60	6,451.20
				Total Bid Price:	6,451.20

Notes:

Price is based on shipping in complete quantities to the jobsite with unloading, storage and erection by others. Less than complete quantities, may incur additional freight charges. This quote is for the the complete package as quoted, any deletion of a bid line item on this quote, may result in additional charges for the remaining material.

Price does not include any radius rail.

Prices good for material delivered on or by 9/30/2024. After which are subject to escalation.

Lead Time: 16 weeks

Terms & Conditions:

This proposal is subject to Structural & Steel Products terms and conditions. Please request a copy by calling (817)332-7417

Payment Terms are Net 30 Days, no retainage, subject to credit approval

Prices are firm 30 days from the quote date and shipment within 60 days of order acceptance, after which prices subject to escalation.

The above prices, specifications and conditions are satisfactory and are hereby accepted.		
Buyer:	Estimated By:	Pedro Muríllo
Signature:	Revised By:	N/A
Date of Acceptance:		
Prime Contractor:		

CONCRETE QUOTATION



page 1 of 2

QUOTED: 3/5/2024

REV#:

QUOTE EXPIRATION:

4/4/2024

2001 Picadilly Dr, Round Rock, TX 78664 Office & Dispatch: 512-389-2113

www.laurenconcrete.com

COMPANY INFORMATION

COMPANY NAME: SMITH CONTRACTING CO., INC.

ATTENTION: Chris Lopez

PHONE:

EMAIL: chrislopez@sccitx.com

PROJECT INFORMATION

PROJECT NAME: CR 138 Right Turn Lane at SH 130, Job# 2401
ADDRESS: CR 138 at SH 130, Williamson County, Texas

SALES REP: Renee Drosche - Cell: (512) 809-2554

	MIX NUMBER	PSI	SLUMP	w/c	AGG SIZE	ASH %	USE	F	PRICE	иом
1	TXDA23.3	3000	5	0.57	1"	30	TXDOT Class A	\$	141.00	/yd3
2	HETXDA23	3000	5	0.58	1"	0	Straight Cement - TXDOT Class A	\$	147.00	/yd3
3	TXDB23.3	2000	5	0.60	1"	30	TXDOT Class B	\$	139.00	/yd3
4	TXDC23.3	3600	4.5	0.45	1"	30	TXDOT Class C	\$	151.50	/yd3
5	CLSM125	MAX 150	8	1.00	NONE	0	TXDOT Flowable Fill	\$	113.00	/yd3
					ES	CALATIO	ONS AND EXPIRATION			

Project Expiration: 9/30/2024

Additional Costs and Terms:

page 2 of 2

- •Lauren Concrete reserves the right to revise quote if not signed and returned within 30 days and/or if project start date is more than 90 days out. Availability of raw materials is expected to be limited. When shortages occur, straight cement concrete designs may be substituted at a minimum charge of \$4.00 per yard. Dolomite Limestone will be substituted at a minimum charge of \$3.00/yd3.
- Pours outside of normal operating hours may be subject to a plant opening fee and are subject to availability. TXDOT hour restrictions strictly observed.
- Fuel Surcharge: A fuel surcharge of \$10.00 per load will be charged when area diesel prices are \$3.25 \$3.49. A surcharge of \$16.00 per load will be charged while diesel prices are \$3.50 \$3.74. An additional \$6.00 per load will be charged for every \$0.25 per gallon increase over \$3.75 per gallon diesel. A complete schedule of fuel surcharges by diesel price is available upon request. The diesel price (On-highway Ultra Low Sulfur Diesel) as posted by the U.S. Energy Information Administration for the Gulf Coast area (PADD3) shall be used as the benchmark. https://www.eia.gov/petroleum/gasdiesel/
- •Non-Chloride Accelerator Admixture, Level 1 \$5.00 per yard, Level 2 \$10.00 c.y., Level 3 \$15.00 c.y.
- •The slumps listed for each individual mix design are the acceptable ranges warranted by Lauren Concrete. The contractor must request a slump for each order that is within the published Lauren Concrete range (per design) as well as respecting conformance to this job's specification(s) and this project's structural notes.
- •Concrete Cooling Pricing on Request.
- •Minimum load size 3 cy. Minimum Load Charge: 3 5.99 yards = \$275.00
- Rejected loads will be assessed individually to determine charges to customer. Lauren Concrete has the right to invoice and collect on all rejected loads that have not been independently tested using ASTM methods.
- •Maximum Allowable Truck Time 60 minutes from arrival time until finish pour out time allowed. \$3.00 per min. charge will apply beyond the allowed time.
- Pricing listed is specific to the project and mix designs indicated above. Additional Concrete Mix Designs will be quoted separately as needed.
- Quality Control Engineered Stamped Mix Design, \$100.00/Mix; Additional Testing Required/ Specifications, quoted separately as needed, i.e., (shrinkage test, 1 day, 2 day break reporting etc.).
- Environmental Fee: \$10.00 per truck
- •As of October 1, 2020 payments on credit accounts are subject to a 3% convenience fee when the payment is made by credit card.
- •When requested, a 9 sack grout mix (40XEA7IP3X1) will be added to the project as a pump prime for \$250 per cubic yard.
- •Effective January 1, 2023 Arrival at jobsite combined with an electronic ticket will serve as proof of delivery. Loads not accepted must be electronically rejected.

SIGNATURE

X

Chris Lopez

DATF:

APPROVED

By Christopher R. Lopez at 12:10 pm, Mar 07, 2024



PROJECT: CR 138 Right Turn Lane at SH 130

DATE: 4

: 4/18/2024

This proposal is for the addition of requested signs on the attached sheets. Proposed line items costs are listed below.

ı	Δ	R	n	P	

				HOL	IRS WOR	KED				
	RATE	1	2	3	4	5	6	7	TOTAL	RATE * TOTAL HOURS
Project Manager	\$ 75.00								0.0	\$ -
Superintendent	\$ 55.00								0.0	\$ -
Foreman/Layout Coordinator	\$ 50.00								0.0	\$ -
Operator 1	\$ 30.00								0.0	\$ -
Operator 2	\$ 28.00								0.0	\$ -
Operator 3	\$ 26.00								0.0	\$ -
Pipe Layer/Concrete Finisher	\$ 26.00								0.0	\$ -
Laborer 1	\$ 24.00								0.0	\$ -
Laborer 2	\$ 24.00								0.0	\$ -
Laborer 3	\$ 24.00								0.0	\$ -
Driver 1	\$ 27.00								0.0	\$ -
Driver 2	\$ 27.00								0.0	\$ -
Foreman/Layout Coordinator OT	\$ 75.00								0.0	\$ -
Operator 1 OT	\$ 45.00								0.0	\$ -
Operator 2 OT	\$ 42.00								0.0	\$ -
Operator 3 OT	\$ 39.00								0.0	\$ -
Pipe Layer/Concrete Finisher OT	\$ 39.00								0.0	\$ -
Laborer 1 OT	\$ 36.00								0.0	\$ -
Laborer 2 OT	\$ 36.00								0.0	\$ -
Laborer 3 OT	\$ 36.00								0.0	\$ -
Driver 1 OT	\$ 40.50								0.0	\$ -
Driver 2 OT	\$ 40.50								0.0	\$ -

LABOR SUBTOTAL \$

PER DIEM

	Unit Cost							QIY	COST	
SCCI Per Diem	\$ -	-	-	-	-		-	0.0	\$ -	1

PER DIEM SUBTOTAL \$

MATERIALS

UNIT COST	UNIT	DESCRIPTION	QTY	COST
			0.0	\$ -
			0.0	\$ -

MATERIAL SUBTOTAL \$

UNIT RATE

SUBCONTRACTORS	UNIT COST	UNIT	DESCRIPTION	QTY	COST
				0.0	\$ -

	UNITCOST	UNII	DESCRIPTION	QIY	COST
ESSI	\$ 59.42	SF	Remove and Replace Existing Sign (Sign Only)(Aluminum Sign Type A)	6.3	\$ 374.35
ESSI	\$ 1,270.38	EA	IN SM RD SN SUP&AM TY10BWG(1)SA(P) ("Stop" Sign)	2.0	\$ 2,540.76
ESSI-Line Item #52 (644-6061)	\$ 720.00	EA	IN SM RD SN SUP&AM TYTWT(1)WS(T) ("Stop Ahead" Sign)	2.0	\$ 1,440.00
ESSI	\$ 2,073.67	EA	IN SM RD SN SUP&AM S80(1)SA(U)	2.0	\$ 4,147.34
					\$ -

UNIT RATE SUBTOTAL \$ 8,502.45

DATE TIMES

EQUIPMENT

	HOOKS WORKED									
RATE	1	2	3	4	5	6	7	TOTAL	TOTAL HRS.	
								0.0	\$	-
								0.0	\$	-
								0.0	\$	-
							EQUIPMENT	SUBTOTAL	\$	-

HOLIDS MODKED

Additional Time Requested (Working Days) 0

LABOR SUBTOTAL \$
LABOR BURDEN 55% \$
LABOR PROFIT & OVERHEAD 15% \$

PER DIEM \$

This sheet is the total for all additional signs listed above. The individual break downs of each item are attached after this sheet.

MATERIAL SUBTOTAL \$ MATERIALS PROFIT AND OVERHEAD 15% \$
SUB CONTRACTOR SUBTOTAL \$ GC PROFIT AND OVERHEAD ON SUBS 5% \$
UNIT RATE \$ 8,502.45

 EQUIPMENT EQUIPMENT MARKUP
 \$ \$ - \$ - \$

 SUBTOTAL
 \$ 8,502.45

 BONDING COST
 0% \$ - \$ - \$

TOTAL \$ 8,502.45





PROJECT: DATE: DESCRIPTION: CR 138 Right Turn Lane at SH 130

4/18/2024

	This proposal is for the removal & replacem	ent of a Lanc Ends Mo	irae Diaht	eign onl	/ Propose	d cost is	\$50 A215	ıF			
	ттіі ріорозаніз іон іле гепточан а геріасеті	ent of a Lane Ends Me	rye right	, sign only				<u> </u>			
		RATE	1	2	3	RS WOR	KED 5	6	7	TOTAL	RATE * TOTAL HOURS
LABOR	Project Manager	\$ 75.00							-	0.0	\$ -
	Superintendent	\$ 55.00								0.0	\$ -
	Foreman/Layout Coordinator	\$ 50.00	0.5							0.5	\$ 25.00
	Operator 1	\$ 30.00								0.0	\$ -
	Operator 2	\$ 28.00		ļ					1	0.0	-
	Operator 3 Pipe Layer/Concrete Finisher	\$ 26.00 \$ 26.00						-	+	0.0	\$ - \$ -
	Laborer 1	\$ 24.00							+	0.0	\$ -
	Laborer 2	\$ 24.00								0.0	\$ -
	Laborer 3	\$ 24.00								0.0	\$ -
	Driver 1	\$ 27.00								0.0	\$ -
	Driver 2	\$ 27.00								0.0	\$ -
	Foreman/Layout Coordinator OT	\$ 75.00								0.0	\$ -
	Operator 1 OT	\$ 45.00 \$ 42.00		1						0.0	-
	Operator 2 OT Operator 3 OT	\$ 42.00							-	0.0	\$ - \$ -
	Pipe Layer/Concrete Finisher OT	\$ 39.00							+	0.0	\$ -
	Laborer 1 OT	\$ 36.00								0.0	\$ -
	Laborer 2 OT	\$ 36.00								0.0	\$ -
	Laborer 3 OT	\$ 36.00								0.0	\$ -
	Driver 1 OT	\$ 40.50								0.0	\$ -
	Driver 2 OT	\$ 40.50								0.0	\$ -
									LABOR	RSUBTOTAL	\$ 25.00
PER DIEM	SCCI Per Diem	Unit Cost	_	-	-	_	_	-	Τ.	QTY 0.0	\$ COST
	55011 51 215111	<u> </u>							PER DIEM	SUBTOTAL	
		LINUT COOT	111117			DEGG	DIDTION				
MATERIALS		UNIT COST	UNIT			DESC	RIPTION			QTY 0.0	COST
										0.0	\$ - \$ -
		I		1					MATERIAL	SUBTOTAL	•
									WATERIAL	OODIOIAL	•
SUBCONTRAC	TORS	UNIT COST	UNIT			DESC	RIPTION			QTY	COST
	ESSI	\$ 50.00	SF			ce Existir	ng Sign (S	ign Only)	(Aluminum	6.3	\$ 312.50
			Oi	Sign Typ	e A)						
								SUBC	ONTRACTOR	0.0 SUBTOTAL	\$ - \$ 312.50
								3050	ONTRACTOR	SUBTUTAL	ş 312.50
UNIT RATE		UNIT COST	UNIT			DESC	RIPTION			QTY	COST
											\$ -
											\$ -
									LINUT DATE	SUBTOTAL	\$ -
									UNII KAIE	SUBTUTAL	-
					IOURS W	ORKED					RATE TIMES
EQUIPMENT		RATE	1	2	3	4	5	6	7	TOTAL	TOTAL HRS.
										0.0	\$ -
										0.0	\$ -
										0.0	\$ -
				ļ					1	0.0	-
				<u> </u>				<u> </u>	FOLLIDMENT	0.0 SUBTOTAL	\$ -
									EGO!! IIIE!!	OODIOIAL	•
	Additional Time Requested (Working Day	/s) 0						LABOR	R SUBTOTAL		\$ 25.00
									OR BURDEN		
							LABOR P	ROFIT &	OVERHEAD	15%	\$ 3.75
									PER DIEM		\$ -
									I LIX DILIM		Ψ -
							M	ATERIAL	SUBTOTAL		\$ -
						MATERI	ALS PRO	FIT AND	OVERHEAD	15%	\$ -
									R SUBTOTAL AD ON SUBS		\$ 312.50
					,	JC PROF	II AND C	VERHE	AD ON SUBS	5%	\$ 15.63
									UNIT RATE		\$ -
									EQUIPMENT		\$ -
							E		NT MARKUP	5%	
									SUBTOTAL		\$ 370.63
								BOI	NDING COST	1%	\$ 3.71
									TOTAL		\$ 37 <u>4.33</u>
									TOTAL		\$ 59.42



PROJECT: CR 138 R
DATE: 4/5/2024
DESCRIPTION: CR 138 Right Turn Lane at SH 130

DESCRIPTION	:										
	This proposal is for the addition of 2ea. Stop Sigr	ns. Proposed co	st for add	ditional S	top Sign	s is \$872 F	69/EA				
	This proposaris for the addition of Zea. Stop Sign	is. <u>I Toposeu co</u>	St for au	aitional o		URS WOR					
LABOR		RATE	1	2	3	4	5	6	7	TOTAL	RATE * TOTAL HOURS
	Project Manager	\$ 75.00								0.0	\$ -
	Superintendent	\$ 55.00	0.5							0.0	\$ -
	Foreman/Layout Coordinator Operator 1	\$ 50.00 \$ 30.00	0.5							0.5 0.0	\$ 25.00 \$ -
	Operator 2	\$ 28.00								0.0	\$ -
	Operator 3	\$ 26.00								0.0	\$ -
	Pipe Layer/Concrete Finisher	\$ 26.00								0.0	\$ -
	Laborer 1	\$ 24.00								0.0	\$ -
	Laborer 2	\$ 24.00								0.0	\$ -
	Laborer 3 Driver 1	\$ 24.00	 	1						0.0	-
	Driver 2	\$ 27.00 \$ 27.00								0.0	\$ - \$ -
	Foreman/Layout Coordinator OT	\$ 75.00								0.0	\$ -
	Operator 1 OT	\$ 45.00								0.0	\$ -
	Operator 2 OT	\$ 42.00								0.0	\$ -
	Operator 3 OT	\$ 39.00								0.0	\$ -
	Pipe Layer/Concrete Finisher OT	\$ 39.00								0.0	\$ -
	Laborer 1 OT	\$ 36.00	 	1						0.0	\$ -
	Laborer 2 OT	\$ 36.00	-	<u> </u>	 	+	 		-	0.0	\$ - \$ -
	Laborer 3 OT Driver 1 OT	\$ 36.00 \$ 40.50	1	 	 	1	 			0.0	\$ - \$ -
	Driver 2 OT	\$ 40.50								0.0	\$ -
									LABOR	SUBTOTAL	
PER DIEM		Unit Cost		1						QTY	COST
	SCCI Per Diem	\$ -	-	-	-	-	-	-	-	0.0	\$ -
		<u> </u>	Ļ	1	<u> </u>		<u> </u>		DED DIEM	SUBTOTAL	
									PER DIEW	SUBTUTAL	-
MATERIALS		UNIT COST	UNIT			DESC	RIPTION			QTY	COST
										0.0	\$ -
										0.0	\$ -
									MATERIAL	SUBTOTAL	\$ -
SUBCONTRAC	TORS	UNIT COST	UNIT			DESC	RIPTION			QTY	COST
	ESSI	\$ 802.67	EA	IN SM RI	O SN SU	P&AM TY1	0BWG(1)	SA(P) ("S	Stop" Sign)	2.0	\$ 1,605.34
				Signs for	Street N	ame Blade	s with App	olicable H	lardware		
	ESSI	\$ 187.50	EA			Derby Day				4.0	\$ 750.00
				(48"x8")-	Little Lak	e (40"x8")	& East Wi	lco Hwy (48"x8")		
								SUBC	ONTRACTOR	0.0 SUBTOTAL	\$ - \$ 2,355.34
UNIT RATE		UNIT COST	UNIT			DESC	RIPTION			QTY	COST
											\$ -
									LINIT RATE	SUBTOTAL	\$ - \$ -
									OMIT IONIE	OODIOIAL	•
					OURS W	ORKED		•			RATE TIMES
EQUIPMENT		RATE	11	2	3	4	5	6	7		TOTAL HRS.
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		<u> </u>	 	 	1	+			†	0.0	\$ - \$ -
		1							EQUIPMENT	SUBTOTAL	
			-								
	Additional Time Requested (Working Days)	0	J						SUBTOTAL	===:	\$ 25.00
							ABOBB		OVERHEAD	55% 15%	
							LADUK P	NOFII &	OVERHEAD	15%	\$ 3.75
									PER DIEM		\$ -
											*
							M	ATERIAL	SUBTOTAL		\$ -
						MATERI	ALS PRO	FIT AND	OVERHEAD	15%	\$ -
									SUBTOTAL		\$ 2,355.34
						GC PROF	IT AND O	VERHEA	D ON SUBS	5%	\$ 117.77
									UNIT RATE		\$ -
									· · · · · · · · ·		
									EQUIPMENT		\$ -
							E	QUIPMEI	NT MARKUP	5%	\$ -
									SUBTOTAL		\$ 2,515.61
								BON	IDING COST	1%	\$ 25.16
									TOTAL		\$ 2,540.76
											\$ 1,270.38



PROJECT: CR 138 Ri
DATE: 4/5/2024
DESCRIPTION: CR 138 Right Turn Lane at SH 130

ABOR Project Manager		This proposal is for the addition of 2ea. guid	o orgino to bo motamou	OII tile lie	mage rou								/3.6//EA.
Project Manager \$ 75.00						HOL	IRS WOR						
Project Manager \$ 7.500	BOR		RATE	1	2	3	4	5	6	7	TOTAL	RATE	* TOTAL HOU
Fortranal Appet Coordinators \$ 50.00 0.0		Project Manager	\$ 75.00								0.0	\$	
City		Superintendent	\$ 55.00								0.0	\$	
Contract		Foreman/Layout Coordinator	\$ 50.00	0.5							0.5	\$	25.0
Committee Comm											0.0		
Comment Comm			\$ 28.00								0.0		
Pipe LayerConcrete Finisher \$ 26.00													
Laborer													
Laborer 2													
Laborar S													
Direct S 27.00													
DIEM													
Formankasout Coordinate OT \$ 75.00 0.0 \$													
Digital Digi													
Digital State Stat													
Digital Contractors													
Pipe Layer/Concele Firsher OT \$ 38.00 0.0 \$													
Laborer 10T		Operator 3 OT	\$ 39.00								0.0	\$	
Laborer 2 OT		Pipe Layer/Concrete Finisher OT	\$ 39.00								0.0	\$	
Laborer 2 OT		Laborer 1 OT	\$ 36.00								0.0	\$	
Laborar 3 OT											0.0		
Driver 1 OT													
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Column													
SCCI Per Diem \$ -		BINGI 2 OT	ψ 40.00	I	I	I	I	ı		LABOR		•	25.
PER DIEM SUBTOTAL \$	DIEM												COST
UNIT COST UNIT DESCRIPTION QTY COST QUIT QUI		SCCI Per Diem	\$ -	-	-	-	-	-	-	-	0.0	\$	
UNIT COST UNIT DESCRIPTION QTY COST QUIT QUI			L		!		l .	I .		DEB DIEM	SUBTOTAL	\$	_
										FERDIEN	ISOBIOTAL	φ	-
	RIAI S		UNIT COST	UNIT			DESC	RIPTION			OTY		COST
												\$	
MATERIAL SUBTOTAL \$													
ESSI \$ 1,935.13 EA IN SM RD SN SUP&AM S80(1)SA(U) 2.0 \$ SUBCONTRACTOR SUBTOTAL \$ RATE UNIT COST UNIT DESCRIPTION QTY COST UNIT RATE SUBTOTAL \$ UNIT RATE SUBTOTAL \$ HOURS WORKED RATE TI 2 3 4 5 6 7 TOTAL TOTAL HRS. RATE 1 2 3 4 5 6 7 TOTAL TOTAL HRS. UNIT RATE SUBTOTAL \$ EQUIPMENT SUBTOTAL \$ Additional Time Requested (Working Days) 0 LABOR SURFORD A SUBTOTAL \$ LABOR PROFIT & OVERNEAD 15% \$ PER DIEM \$ MATERIALS PROFIT AND OVERHEAD 15% \$ SUB CONTRACTOR SUBTOTAL \$ SUB CONTRACTOR SUBTOTAL \$ LADOR SUBTOTAL \$ LADOR PROFIT AND OVERHEAD 15% \$ SUB CONTRACTOR SUBTOTAL \$ SUB CONTRACTOR SUBTOTAL \$ LADOR PROFIT AND OVERHEAD 15% \$ SUB CONTRACTOR SUBTOTAL \$ SUBTOTAL \$ LADOR PROFIT AND OVERHEAD 15% \$ SUB CONTRACTOR SUBTOTAL \$ SUBTOTAL \$ LADOR PROFIT AND OVERHEAD 15% \$ SUB CONTRACTOR SUBTOTAL \$ LADOR PROFIT AND OVERHEAD SOME \$ SUB CONTRACTOR SUBTOTAL \$ LADOR PROFIT AND OVERHEAD SOME \$ SUB CONTRACTOR SUBTOTAL \$ LADOR PROFIT AND OVERHEAD SOME \$ SUB CONTRACTOR SUBTOTAL \$ LADOR PROFIT AND OVERHEAD SOME \$ SUB CONTRACTOR SUBTOTAL \$ LADOR PROFIT AND OVERHEAD SOME \$ SUB CONTRACTOR SUBTOTAL \$ SUBTOTAL \$ SUBTOTAL \$ SUBTOTAL \$			· · · · ·		<u>l</u>					MATERIAL		•	
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RATE UNIT COST UNIT DESCRIPTION QTY COST UNIT RATE SUBTOTAL \$ HOURS WORKED RATE TIL RATE 1 2 3 4 5 6 7 TOTAL TOTAL HRS. RATE 1 2 3 4 5 6 7 TOTAL TOTAL HRS. RATE 1 2 3 4 5 6 7 TOTAL TOTAL HRS. DOUBLE SUBTOTAL S Additional Time Requested (Working Days) 0 LABOR PROFIT & OVERHEAD 15% \$ PER DIEM \$ PER DIEM \$ MATERIALS PROFIT AND OVERHEAD 15% \$ SUB CONTRACTOR SUBTOTAL \$ SUB CONTRACTOR SUBTOTAL \$ MATERIALS PROFIT AND OVERHEAD 15% \$ UNIT RATE \$ EQUIPMENT \$ SUB CONTRACTOR SUBTOTAL \$ SUBTOTAL \$ SUBTOTAL \$ SUBTOTAL \$	JUNIKAC				IN ON 1 D	0.011.0115						•	
SUBCONTRACTOR SUBTOTAL \$		ESSI	\$ 1,935.13	EA	IN SM RI	D SN SUF	&AM 580)(1)SA(U)					3,870.
NOURS WORKED			l e		<u> </u>				SUBC	ONTRACTOR			3,870.
Note	RATE		UNIT COST	UNIT			DESC	RIPTION			QTY	1	COST
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HOURS WORKED										LINIT DATE	SUBTOTAL		
RATE 1 2 3 4 5 6 7 TOTAL TOTAL HRS.										ONII KAIE	SUBTUTAL	¥	
RATE 1 2 3 4 5 6 7 TOTAL TOTAL HRS.					Н	OURS W	ORKED					F	RATE TIMES
	PMENT		RATE	1				5	6	7	TOTAL		
											0.0		
Additional Time Requested (Working Days) Description of the contract of the c													
Additional Time Requested (Working Days) 0 LABOR SUBTOTAL \$ LABOR BURDEN 55% \$ LABOR PROFIT & OVERHEAD 15% \$ PER DIEM \$ MATERIAL SUBTOTAL \$ MATERIAL SUBTOTAL \$ MATERIAL SUBTOTAL \$ SUB CONTRACTOR SUBTOTAL \$ GC PROFIT AND OVERHEAD ON SUBS 5% \$ UNIT RATE \$ EQUIPMENT \$ EQUIPMENT \$ SUBTOTAL \$													
EQUIPMENT SUBTOTAL \$ Additional Time Requested (Working Days) 0 LABOR SUBTOTAL LABOR BURDEN 55% \$ LABOR PROFIT & OVERHEAD 15% \$ PER DIEM \$ MATERIAL SUBTOTAL \$ MATERIAL SUBTOTAL \$ SUB CONTRACTOR SUBTOTAL \$ GC PROFIT AND OVERHEAD ON SUBS 5% \$ UNIT RATE \$ EQUIPMENT \$ EQUIPMENT \$ SUBTOTAL \$							i e		1	i			
EQUIPMENT SUBTOTAL \$ Additional Time Requested (Working Days) 0 LABOR SUBTOTAL LABOR BURDEN 55% \$ LABOR PROFIT & OVERHEAD 15% \$ PER DIEM \$ MATERIAL SUBTOTAL \$ MATERIAL SUBTOTAL \$ SUB CONTRACTOR SUBTOTAL \$ GC PROFIT AND OVERHEAD ON SUBS 5% \$ UNIT RATE \$ EQUIPMENT \$ EQUIPMENT \$ SUBTOTAL \$							1	†	1	 			
LABOR BURDEN 55% \$ LABOR PROFIT & OVERHEAD 15% \$ PER DIEM \$ MATERIAL SUBTOTAL \$ MATERIALS PROFIT AND OVERHEAD 15% \$ SUB CONTRACTOR SUBTOTAL \$ GC PROFIT AND OVERHEAD ON SUBS 5% \$ UNIT RATE \$ EQUIPMENT \$ EQUIPMENT \$ SUBTOTAL \$ SUBTOTAL \$					ı		ı		ı	EQUIPMENT	SUBTOTAL	\$	
LABOR BURDEN 55% \$ LABOR PROFIT & OVERHEAD 15% \$ PER DIEM \$ MATERIAL SUBTOTAL \$ MATERIALS PROFIT AND OVERHEAD 15% \$ SUB CONTRACTOR SUBTOTAL \$ GC PROFIT AND OVERHEAD ON SUBS 5% \$ UNIT RATE \$ EQUIPMENT \$ EQUIPMENT \$ SUBTOTAL \$ SUBTOTAL \$		Additional Time Requested (Working Day	/s) 0	1					LABOR	SUBTOTAL		\$	25.
LABOR PROFIT & OVERHEAD 15% \$ PER DIEM \$ MATERIAL SUBTOTAL \$ MATERIALS PROFIT AND OVERHEAD 15% \$ SUB CONTRACTOR SUBTOTAL \$ GC PROFIT AND OVERHEAD ON SUBS 5% \$ UNIT RATE \$ EQUIPMENT \$ EQUIPMENT 5% \$ SUBTOTAL \$											55%		13.
PER DIEM \$ MATERIAL SUBTOTAL \$ MATERIALS PROFIT AND OVERHEAD 15% \$ SUB CONTRACTOR SUBTOTAL GC PROFIT AND OVERHEAD ON SUBS 5% \$ UNIT RATE \$ EQUIPMENT \$ EQUIPMENT \$ SUBTOTAL \$								I AROR P					3.
MATERIAL SUBTOTAL MATERIALS PROFIT AND OVERHEAD SUB CONTRACTOR SUBTOTAL GC PROFIT AND OVERHEAD ON SUBS UNIT RATE EQUIPMENT EQUIPMENT EQUIPMENT MARKUP SUBTOTAL \$ SUBTOTAL \$								LADOIN			1070		
MATERIALS PROFIT AND OVERHEAD 15% \$ SUB CONTRACTOR SUBTOTAL \$ GC PROFIT AND OVERHEAD ON SUBS 5% \$ UNIT RATE \$ EQUIPMENT \$ EQUIPMENT MARKUP 5% \$ SUBTOTAL \$								м	ATERIAL				_
GC PROFIT AND OVERHEAD ON SUBS 5% \$ UNIT RATE \$ EQUIPMENT \$ EQUIPMENT MARKUP 5% \$ SUBTOTAL \$							MATERI				15%		-
EQUIPMENT \$ EQUIPMENT MARKUP 5% \$ SUBTOTAL \$											5%		3,870 193
EQUIPMENT MARKUP 5% \$ SUBTOTAL \$										UNIT RATE		\$	-
SUBTOTAL \$					EQUIPMENT						5 0/.		-
								-			5%		4,106
											1%		41.
TOTAL \$										IATOT			4,147





Environmental Safety Services, Inc.

Proposal #: C.O. #: 0324-2226

P.O. Box 54 Buda, Texas, 78610

Phone: 512-989-2259 Fax: 512-372-9375

** CERTIFIED DBE / MBE / HUB / HABE / SBE CONTRACTOR **

COA/TXDOT MBE/DBE #: VS0000012711, SCTRCA SBE/MBE/HABE #: 215049005, Texas HUB #: 1260203041800

Project: CR 138 Right Turn Lane For: Williamson County

April 2, 2024

Environmental Safety Services proposes to provide all the materials, labor, equipment and supervision necessary to perform the following work at the above referenced project per plans and specifications.

ITEM #	DESCRIPTION	UNIT	QUANTITIES	BID PRICE	EXT. PRICE
1	Remove and Replace Existing Sign (Sign Only)(Aluminum Sign Type A)	SF	6.25	\$50.00	\$312.50
2	IN SM RD SN SUP&AM TY10BWG(1)SA(P) ("Stop" Sign)	EA	2.00	\$802.67	\$1,605.34
3	IN SM RD SN SUP&AM S80(1)SA(U)	EA	2.00	\$1,935.13	\$3,870.26
				TOTAL	\$5,788.10

Notes:

Bid Date:

All permits, lane closures and traffic control are excluded.

All layout is excluded.

General Contractor to provide access and staging area for ESSI materials & equipment.

If any material tests are required they shall be done by the GC or others.

All maintenance is excluded.

Sign prices are based on a minimum of ten installs/removes per move-in, or a \$350.00 mobilization

charge will apply. No temporary signs/mounts, covering or turning of signs, solar or electrical is included.

All shoring and mass excavation are excluded.

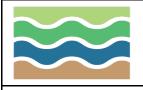
All dewatering is excluded.

Pricing is good for thirty (30) days.

*****All bid prices are negotiable.****

Respectfully submitted by Carson Ikels, Estimator

Accepted by:	Date:	





Environmental Safety Services, Inc.

P.O. Box 54 Buda, Texas, 78610

Phone: 512-989-2259 Fax: 512-372-9375

CO 0424-2226

** CERTIFIED DBE / MBE / HUB / HABE / SBE CONTRACTOR **

COA/TXDOT MBE/DBE #: VS0000012711, SCTRCA SBE/MBE/HABE #: 215049005, Texas HUB #: 1260203041800

Bid Date: April 18, 2024 Proposal #:

Project: CR 138 Right Turn Lane at SH-130

For: Williamson County

Environmental Safety Services proposes to provide all the materials, labor, equipment and supervision necessary to perform the following work at the above referenced project per plans and specifications.

ITEM #	DESCRIPTION	UNIT	QUANTITIES	BID PRICE	EXT. PRICE
1	Signs for Street Name Blades with Applicable Hardware	EA	4.00	\$187.50	\$750.00
1	(Caps, Crosses)	LA	4.00	\$107.50	\$ 730.00
	Derby Day (38"x8") & East Wilco Hwy (48"x8")				
	Little Lake (40"x8") & East Wilco Hwy (48"x8")				
				TOTAL	\$750.00

Notes:

All permits, lane closures and traffic control are excluded.

All layout is excluded.

General Contractor to provide access and staging area for ESSI materials & equipment.

If any material tests are required they shall be done by the GC or others.

All maintenance is excluded.

Sign prices are based on same move-in with additional CO signs, or a \$350.00 mobilization

charge will apply. No temporary signs/mounts, covering or turning of signs, solar or electrical is included.

Overhead signs will be provided by ESSI for installation by others.

Sign relocation pricing reflects new stubs only. If new posts or signs are needed, additional charges will apply.

Aluminum signs type A price reflects ESSI providing the signs for installation by others.

All shoring and mass excavation are excluded.

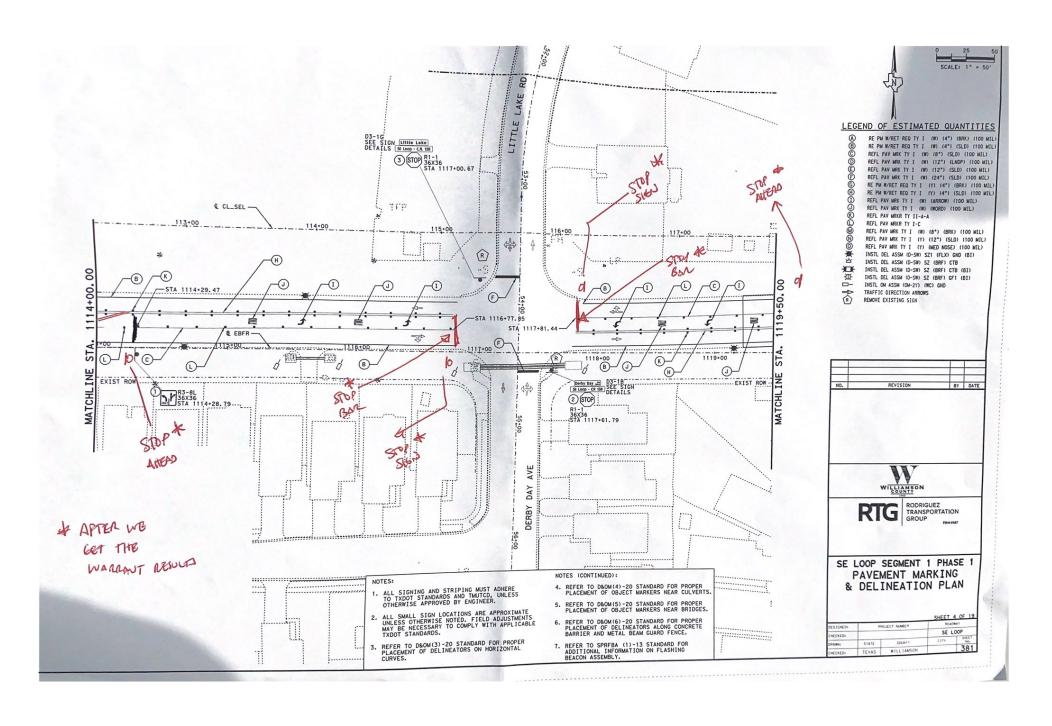
All dewatering is excluded.

Respectfully submitted by Carson Ikels, Estimator

Pricing is good for thirty (30) days.

*****All bid prices are negotiable.****

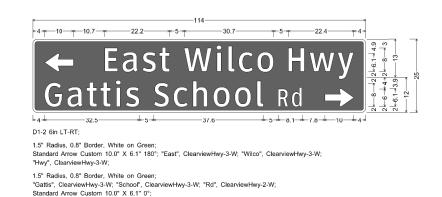
Accepted by:		Date:	
Accepted by.	-	Dutc.	





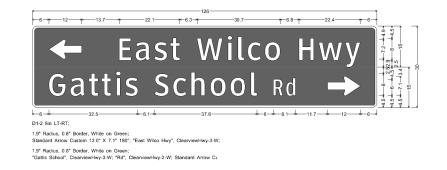
PROPOSED S4

REMOVE AND REPLACE EXISTING SIGN

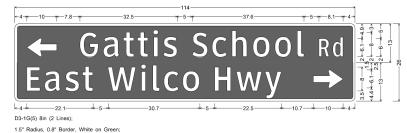


PROPOSED S5

REMOVE AND REPLACE EXISTING SIGN. NEW SIGN LOCATION - SEE SUMMARY OF SMALL SIGNS.



PROPOSED S6 REMOVE AND REPLACE EXISTING SIGN



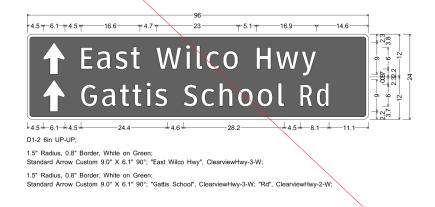
Standard Arrow Custom 10.0" X 6.1" 180°; "Gattis", ClearviewHwy-3-W; "School", ClearviewHwy-3-W; "Rd", ClearviewHwy-2-W

1.5" Radius, 0.8" Border, White on Green:

"East", ClearviewHwy-3-W; "Wilco", ClearviewHwy-3-W; "Hwy", ClearviewHwy-3-W; Standard Arrow Custom 10.0" X 6.1" 0°;

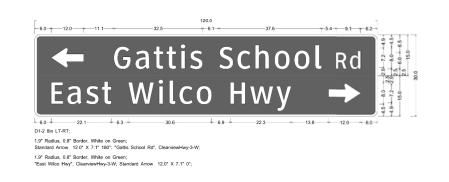
PROPOSED S7

REMOVE AND REPLACE EXISTING SIGN. NEW SIGN LOCATION - SEE SUMMARY OF SMALL SIGNS.



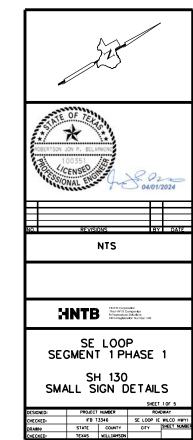
PROPOSED S11

REMOVE AND REPLACE EXISTING SIGN.



NOTES:

- 1. TXDOT TO VERIFY ADEQUACY OF EXISTING MAST ARMS TO SUPPORT PROPOSED SIGNS S4 AND S6.
- 2. ALL SIGN DIMENSIONS SHOWN ARE IN INCHES.



			(X-XXXX)	YY (Y)	ASSM TY XX	NS SGN		A L ⊋ s					
		BRIDGE MOUNT	\^- <u>^^</u>		ASSM II VV	JON	2M KI	ᇦᇦ					
		CLEARANCE	PEC I CALATION	1401	ANGUAR TURS	20070	DOST THOS	(TYPE (TYPE					PLAN
		SIGNS (See	DESIGNATION Tor 2EXT = # of Ext		ANCHOR TYPE UA=Universal Conc	POSTS	POST TYPE			SIGN	SIGN	SIGN	HEET
		Note 2)	= Extruded Wind Beam		UB•Universal Bolt		FRP = Fibergloss TWT = Thin-Woll	ALUMINUM ALUMINUM	JITENSTONS	3104	NOMENCLATURE	NO.	NO.
		TY - TYPE	= 1.12 #/ft Wing Channel	• "Plain" • "T"	SA=Slipbase-Conc SB=Slipbase-Bolt	1 or 2	TWT = Thin-Wall 10BWG = 10 BWG						
		TY N TY S	L= Extruded Alum Sign Panels		•		S80 - Sch 80	FLAT					
										LT Arrow - East Wilco Hwy			
			ARM	XISTING M	INSTALL ON			Х	114 X 25		D1-2	S4	
	ALUMINUM SIGN I									Gattis School Rd - RT Arrow			
	Less than 7.5									LT Arrow - East Wilco Hwy			\dashv
0.10	7.5 to 15		ВМ	U	SA	1	S8Ø	Х	126 X 30		D1-2	S5	
1 15 0.12	Greater than 15		50291, -97.58062 IG LOCATION	OCATION: AM OF EXIS	NEW SIGN / NEW 240' UPSTR					Gattis School Rd - RT Arrow			
								\blacksquare		LT Arrow - Gattis School Rd			\neg
			ARM	XISTING M	INSTALL ON			Х	114 X 26		D3-1	S6	
d Highway Sign De (SHSD) can be four	for Texas (SHSD)									East Wilco Hwy - RT Arrow			
'ng website. //www.txdot.gov/	the following w									T hru Arrow - East Wilco H wy			$\overline{}$
/www.txdot.gov/	Intp.//wwv		ВМ	U	SA	1	S8Ø	Х	96 X 24		D1-2	S7	
			51522, -97.57637 IG LOCATION	OCATION: AM OF EXIS	NEW SIGN / NEW 750' UPSTR					Thru Arrow - Gattis School Rd			
	NOTE:							\blacksquare		LT Arrow - Gattis School Rd			\neg
except that the	 Sign supports shall on the plans, exce 		ВМ	U	SA	1	S8Ø	Х	126 X 3Ø		D1-2	S11	二
sign supports, wines, where neces	may shift the sign design guidelines.		TION	XISTING L	INSTALL AT			+		East Wilco Hwy - RT Arrow			-+
desirable locati	secure a more des avoid conflict wit												
wn on the plans,	otherwise shown or Contractor shall s												
	will verify all s												
idge Mounted Clea	For installation of signs, see Bridge												
S) Standard Sheet.	Assembly (BMCS)Sto							+					\dashv
ort Descriptive (3. For Sign Support [\blacksquare					
Notes & Details	Sign Mounting Deta Signs General Note												ightharpoonup
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DIST COUNTY	16							\Box					



 PROJECT:
 CR 138 Right Turn Lane at SH 130

 DATE:
 4/8/2024

 DESCRIPTION:

OR	This proposal is for the addition of requested Po				g							
OR		DATE				IRS WOR			_	T0741	DATE :	
		RATE	1	2	3	4	5	6	7	TOTAL	RAIE	TOTAL HOU
	Project Manager	\$ 75.00								0.0	\$	
	Superintendent	\$ 55.00								0.0	\$	
	Foreman/Layout Coordinator	\$ 50.00								0.0	\$	
	Operator 1	\$ 30.00								0.0	\$	
	Operator 2	\$ 28.00								0.0	\$	
	Operator 3	\$ 26.00								0.0	\$	
	Pipe Layer/Concrete Finisher	\$ 26.00								0.0	\$	
	Laborer 1	\$ 24.00								0.0	\$	
	Laborer 2	\$ 24.00								0.0	\$	
	Laborer 3	\$ 24.00								0.0	\$	
	Driver 1	\$ 27.00								0.0	\$	
	Driver 2	\$ 27.00								0.0	\$	
	Foreman/Layout Coordinator OT	\$ 75.00								0.0	\$	
	Operator 1 OT	\$ 45.00								0.0	\$	
	Operator 2 OT	\$ 42.00								0.0	\$	
	Operator 3 OT	\$ 39.00								0.0	\$	
	Pipe Layer/Concrete Finisher OT	\$ 39.00								0.0	\$	
	Laborer 1 OT	\$ 36.00								0.0	\$	
	Laborer 2 OT											
	Laborer 3 OT	\$ 36.00 \$ 36.00	1	1	1	1		1	 	0.0	\$	
	Driver 1 OT		1	1	1	1		1	 	0.0	\$	
		\$ 40.50							1	0.0		
	Driver 2 OT	\$ 40.50								0.0	\$	
									LABOR	SUBTOTAL	\$	-
DIEM	SCCI Per Diem	Unit Cost						-	1	QTY	•	COST
	SCCI Fei Dieili	\$ -	-	-	-	-	-	-	-	0.0	\$	
									PER DIEM	SUBTOTAL	\$	-
ERIALS		UNIT COST	UNIT			DESC	RIPTION			QTY		COST
										0.0	\$	
										0.0	\$	
		•							MATERIAL	SUBTOTAL	\$	
											•	
CONTRAC	CT <u>ORS</u>	UNIT COST	UNIT				RIPTION			QTY		COST
	Texas Highway Cops, LLC.	\$ 70.00	HR		ers for a	closure -	Gattis Scl	hool Rd. /	And Toll Rd.	61.5	\$	4,305.
	Texas Flighway Cops, ELC.	Ψ 70.00	1111	130						01.0		
										0.0	\$	
								SUBCC	NTRACTOR	SUBTOTAL	\$	4,305.
RATE		UNIT COST	UNIT			DESC	RIPTION			QTY		COST
											\$	
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		1	l .						UNIT RATE	SUBTOTAL		
									•		•	
					OURS W		_					ATE TIMES
							5	6	7	TOTAL		HRS.
PMENT		RATE	1	2	3	4	_				TOTAL	
PMENT		RATE	1		3	4				0.0	\$	
PMENT		RATE	1	2	3	4				0.0 0.0	\$ \$	
PMENT		RATE	1	2	3	4				0.0 0.0 0.0	\$ \$	
PMENT		RATE	1	2	3	4			EQUIPMENT	0.0 0.0	\$ \$	
PMENT			1	2	3	4				0.0 0.0 0.0 SUBTOTAL	\$ \$ \$	
PMENT	Additional Time Requested (Working Days)	RATE	1	2	3	4		LABOR	SUBTOTAL	0.0 0.0 0.0 SUBTOTAL	\$ \$ \$	
PMENT	Additional Time Requested (Working Days)		1	2	3			LABOR LABO	SUBTOTAL OR BURDEN	0.0 0.0 0.0 SUBTOTAL	\$ \$ \$	
PMENT	Additional Time Requested (Working Days)		1	2	3			LABOR LABO	SUBTOTAL	0.0 0.0 0.0 SUBTOTAL	\$ \$ \$	
PMENT	Additional Time Requested (Working Days)		1		3			LABOR LABO	SUBTOTAL OR BURDEN OVERHEAD	0.0 0.0 0.0 SUBTOTAL 55% 15%	\$ \$ \$ \$	
PMENT	Additional Time Requested (Working Days)		1		3			LABOR LABO	SUBTOTAL OR BURDEN	0.0 0.0 0.0 SUBTOTAL 55% 15%	\$ \$ \$	
PMENT	Additional Time Requested (Working Days)		1		3			LABOR LABO	SUBTOTAL OR BURDEN OVERHEAD	0.0 0.0 0.0 SUBTOTAL 55% 15%	\$ \$ \$ \$	
PMENT	Additional Time Requested (Working Days)		1		3		ABOR P	LABOR LABO ROFIT &	SUBTOTAL OR BURDEN OVERHEAD	0.0 0.0 0.0 SUBTOTAL 55%	\$ \$ \$ \$	
PMENT	Additional Time Requested (Working Days)		1			L	ABOR P	LABOR LABO ROFIT &	SUBTOTAL OR BURDEN OVERHEAD PER DIEM	0.0 0.0 0.0 SUBTOTAL 55% 15%	\$ \$ \$ \$ \$ \$ \$	
PMENT	Additional Time Requested (Working Days)		1			L	ABOR P	LABOR LABO ROFIT &	SUBTOTAL OR BURDEN OVERHEAD PER DIEM	0.0 0.0 0.0 SUBTOTAL	\$ \$ \$ \$ \$ \$ \$	
PMENT	Additional Time Requested (Working Days)		1			L	ABOR PI	LABOR LABO ROFIT & ATERIAL FIT AND	SUBTOTAL OR BURDEN OVERHEAD PER DIEM	0.0 0.0 0.0 SUBTOTAL 55% 15%	\$ \$ \$ \$ \$ \$ \$	
PMENT	Additional Time Requested (Working Days)		1			L MATERIA SU	ABOR PI M/ ALS PRO	LABOR LABO ROFIT & ATERIAL FIT AND	SUBTOTAL DR BURDEN OVERHEAD PER DIEM SUBTOTAL OVERHEAD	0.0 0.0 0.0 SUBTOTAL 55% 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - -
PMENT	Additional Time Requested (Working Days)		1			L MATERIA SU	ABOR PI M/ ALS PRO	LABOR LABO ROFIT & ATERIAL FIT AND	SUBTOTAL DR BURDEN OVERHEAD PER DIEM SUBTOTAL OVERHEAD SUBTOTAL	0.0 0.0 0.0 SUBTOTAL 55% 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - 4,305.
PMENT	Additional Time Requested (Working Days)		1			L MATERIA SU	ABOR PI M/ ALS PRO	LABOR LABO ROFIT & ATERIAL FIT AND	SUBTOTAL DR BURDEN OVERHEAD PER DIEM SUBTOTAL OVERHEAD SUBTOTAL	0.0 0.0 0.0 SUBTOTAL 55% 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - 4,305.
PMENT	Additional Time Requested (Working Days)		1			L MATERIA SU	ABOR PI M/ ALS PRO	LABOR LABO ROFIT & ATERIAL FIT AND	SUBTOTAL DR BURDEN OVERHEAD PER DIEM SUBTOTAL OVERHEAD SUBTOTAL DO N SUBS	0.0 0.0 0.0 SUBTOTAL 55% 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - 4,305.
PMENT	Additional Time Requested (Working Days)		1	2		L MATERIA SU	ABOR PI M/ ALS PRO	LABOR LABOR ROFIT & ATERIAL FIT AND RACTOR VERHEA	SUBTOTAL DR BURDEN OVERHEAD PER DIEM SUBTOTAL OVERHEAD SUBTOTAL D ON SUBS UNIT RATE	0.0 0.0 0.0 55% 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - 4,305.
PMENT	Additional Time Requested (Working Days)		1			L MATERIA SU	MALS PRO	LABOR LABO ROFIT & ATERIAL FIT AND RACTOR VERHEA	SUBTOTAL DR BURDEN OVERHEAD PER DIEM SUBTOTAL OVERHEAD SUBTOTAL D ON SUBS UNIT RATE EQUIPMENT	0.0 0.0 0.0 SUBTOTAL 55% 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - 4,305.
PMENT	Additional Time Requested (Working Days)		1			L MATERIA SU	MALS PRO	LABOR LABO ROFIT & ATERIAL FIT AND RACTOR VERHEA	SUBTOTAL DR BURDEN OVERHEAD PER DIEM SUBTOTAL OVERHEAD SUBTOTAL D ON SUBS UNIT RATE	0.0 0.0 0.0 SUBTOTAL 55% 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - 4,305.
PMENT	Additional Time Requested (Working Days)		1			L MATERIA SU	MALS PRO	LABOR LABOR LABOR ROFIT & ATERIAL FIT AND RACTOR VERHEA	SUBTOTAL DR BURDEN OVERHEAD PER DIEM SUBTOTAL OVERHEAD SUBTOTAL D ON SUBS UNIT RATE EQUIPMENT NT MARKUP	0.0 0.0 0.0 55% 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
PMENT	Additional Time Requested (Working Days)		1			L MATERIA SU	MALS PRO	LABOR LABOR LABOR ROFIT & ATERIAL FIT AND RACTOR VERHEA	SUBTOTAL DR BURDEN OVERHEAD PER DIEM SUBTOTAL OVERHEAD SUBTOTAL D ON SUBS UNIT RATE EQUIPMENT	0.0 0.0 0.0 55% 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	- - - - 4,305.
PMENT	Additional Time Requested (Working Days)		1			L MATERIA SU	MALS PRO	LABOR LABOR LABOR ROFIT & ATERIAL FIT AND RACTOR VERHEA	SUBTOTAL DR BURDEN OVERHEAD PER DIEM SUBTOTAL OVERHEAD SUBTOTAL D ON SUBS UNIT RATE EQUIPMENT NT MARKUP	0.0 0.0 0.0 SUBTOTAL 55% 15% 55%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	
PMENT	Additional Time Requested (Working Days)		1			L MATERIA SU	MALS PRO	LABOR LABOR LABOR ROFIT & ATERIAL FIT AND RACTOR VERHEA	SUBTOTAL DR BURDEN OVERHEAD PER DIEM SUBTOTAL OVERHEAD SUBTOTAL DO N SUBS UNIT RATE EQUIPMENT NT MARKUP SUBTOTAL IDING COST	0.0 0.0 0.0 SUBTOTAL 55% 15% 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4,305. 215. 4,520.
PMENT	Additional Time Requested (Working Days)		1			L MATERIA SU	MALS PRO	LABOR LABOR LABOR ROFIT & ATERIAL FIT AND RACTOR VERHEA	SUBTOTAL DR BURDEN OVERHEAD PER DIEM SUBTOTAL OVERHEAD SUBTOTAL DO N SUBS UNIT RATE EQUIPMENT NT MARKUP SUBTOTAL	0.0 0.0 0.0 SUBTOTAL 55% 15% 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	4,305.0 215.3 4,520.3

INVOICE

Item 999-WC02

Bill To

Smith Contracting Inc. Austin, Tx (512) 350-1806 (512) 990-7640

Payment terms Due upon receipt Invoice # Invoice #5168 Date 04/07/2024

TEXAS HIGHWAY COPS LLC.

Texas Highway Cops LLC.

PO Box #264 Devine, TX 78016

Phone: (210) 518-9707

Email: oreyes@texashighwaycops.com Web: www.texashighwaycops.com

Two officers for a closure - Gattis School Rd. And Toll Rd. (20.5 Hrs)

Description	Rate	Quantity	Total
(Smith Contracting)Police Officers Total Hours Worked	\$70.00	61.5	\$4,305.00
Two officers for a closure - Gattis School Rd. And Toll Rd. 130 (20 F	Hrs)		
04/03/24 Two officers for a closure - Gattis School Rd. And Toll Rd. (21 Hrs)			
04/04/24			

Total	\$4,305.00
Subtotal	\$4,305.00

Smith Contracting Inc.





PROJECT: CR 138 Right Turn Lane at SH 130

DATE: DESCRIPTION:

4/9/2024

This proposal is for the addition of two signs to be installed on existing mast arms at the intersection of SH130 & East Wilco Hwy. Proposed costs for installation of mast

arm signs is \$2,524.16/EA.

				HOL	JRS WOR	KED					
	RATE	1	2	3	4	5	6	7	TOTAL	RATE * T	OTAL OURS
Project Manager	\$ 75.00								0.0	\$	-
Superintendent	\$ 55.00								0.0	\$	-
Foreman/Layout Coordinator	\$ 50.00	3							3.0	\$ 15	50.00
Operator 1	\$ 30.00								0.0	\$	-
Operator 2	\$ 28.00								0.0	\$	-
Operator 3	\$ 26.00								0.0	\$	-
Pipe Layer/Concrete Finisher	\$ 26.00								0.0	\$	-
Laborer 1	\$ 24.00								0.0	\$	-
Laborer 2	\$ 24.00								0.0	\$	-
Laborer 3	\$ 24.00								0.0	\$	-
Driver 1	\$ 27.00								0.0	\$	-
Driver 2	\$ 27.00								0.0	\$	-
Foreman/Layout Coordinator OT	\$ 75.00								0.0	\$	-
Operator 1 OT	\$ 45.00								0.0	\$	-
Operator 2 OT	\$ 42.00								0.0	\$	-
Operator 3 OT	\$ 39.00								0.0	\$	-
Pipe Layer/Concrete Finisher OT	\$ 39.00								0.0	\$	-
Laborer 1 OT	\$ 36.00								0.0	\$	-
Laborer 2 OT	\$ 36.00								0.0	\$	-
Laborer 3 OT	\$ 36.00								0.0	\$	-
Driver 1 OT	\$ 40.50								0.0	\$	-
Driver 2 OT	\$ 40.50								0.0	\$	-

LABOR SUBTOTAL \$ 150.00

PER DIEM

	Unit Cost						QTY	COST
SCCI Per Diem	\$ -	-	-	-	-	-	0.0	\$ -

PER DIEM SUBTOTAL \$

MATERIALS

 UNIT COST	UNIT	DESCRIPTION	QTY	COST
			0.0	\$ -
			0.0	\$ -

MATERIAL SUBTOTAL \$

SUBCONTRACTORS

TORS	UNIT COST	UNIT	DESCRIPTION	QTY	COST
G-Carter	\$ 2,100.00	EA	MUNICIPAL SIGNS ON MASTARMS	2.0	\$ 4,200.00
				0.0	
				0.0	
				0.0	\$ -

SUBCONTRACTOR SUBTOTAL \$ 4,200.00

UNIT RATE

	UNIT COST	UNIT	DESCRIPTION	QTY	COST	
SMITH	\$ 333.33	WD	Traffic Control	1.0		33.33
					\$	-

UNIT RATE SUBTOTAL \$ 333.33

EQUIPMENT

	RATE TIMES									
 RATE	1	2	3	4	5	6	7	TOTAL	TOTAL HRS.	
								0.0	\$	-
								0.0	\$	-
								0.0	\$	-

EQUIPMENT SUBTOTAL \$

Additional Time Requested (Working Days)	0

LABOR SUBTOTAL		\$ 150.00
LABOR BURDEN	55%	\$ 82.50
LABOR PROFIT & OVERHEAD	15%	\$ 22.50
PER DIEM		\$ -

MATERIAL SUBTOTAL MATERIALS PROFIT AND OVERHEAD \$ 15% \$ SUB CONTRACTOR SUBTOTAL GC PROFIT AND OVERHEAD ON SUBS 4,200.00 5% \$ 210.00

> UNIT RATE \$ 333.33

EQUIPMENT EQUIPMENT MARKUP 5% \$

> SUBTOTAL \$ BONDING COST 1% \$

> > TOTAL

\$ \$

49.98 5,048.31 2,524.16 /EA

4,998.33



805 N. BELL BLVD. CEDAR PARK, TEXAS 78613 (512) 258-10 FAX (512) 258-10

April 8, 2024

Project Name: INSTALL MASTARM SIGNS
Job Location: GATTIS SCHOOL ROAD
Owner: WILLIAMSON COUNTY

We at G Carter Construction Co., Inc. are pleased to quote the bid items below on the referenced project:

Bid		<u>Description</u>	<u>Qty</u>	<u>Unit</u>	<u>Unit Price</u>	<u>Amount</u>
<u>Item</u>	Tech Spec.					
1	S4 & S6	MUNICIPAL SIGNS ON MASTARMS	2.0	EA	\$ 2,100.00	\$ 4,200.00
		Т	OTAL		\$	4,200.00

These prices do not include any Bond, Traffic Control or Engineering. If Bond is required, the General Contractor will add 3 1/2% to the bid. These prices are contingent on being awarded all items bid.

G Carter Construction Company Inc is a State Certified WBE, DBE, SBE & HUB.

If this bid is accepted, it becomes a part of the contract. This quote is good for 30 days from date of this letter.

If additional information is needed, please contact me at (512) 258-1025.

Sincerely,

Pete Smith

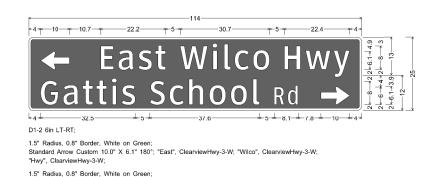
Vice President / Estimator

Pete Smith



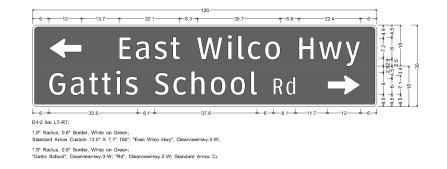
PROPOSED S4 REMOVE AND REPLACE EXISTING SIGN

"Gattis", ClearviewHwy-3-W; "School", ClearviewHwy-3-W; "Rd", ClearviewHwy-2-W; Standard Arrow Custom 10.0" X 6.1" 0°;

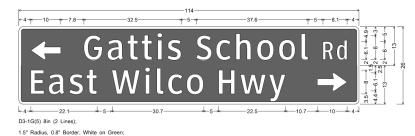


PROPOSED S5

REMOVE AND REPLACE EXISTING SIGN. NEW SIGN LOCATION - SEE SUMMARY OF SMALL SIGNS.



PROPOSED S6 REMOVE AND REPLACE EXISTING SIGN



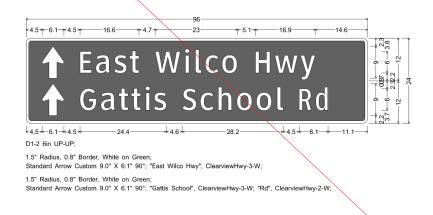
Standard Arrow Custom 10.0" X 6.1" 180°: "Gattis". ClearviewHwy-3-W: "School". ClearviewHwy-3-W: "Rd". ClearviewHwy-2-W

1.5" Radius, 0.8" Border, White on Green:

"East", ClearviewHwy-3-W; "Wilco", ClearviewHwy-3-W; "Hwy", ClearviewHwy-3-W; Standard Arrow Custom 10.0" X 6.1" 0°;

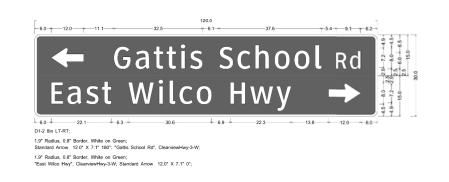
PROPOSED S7

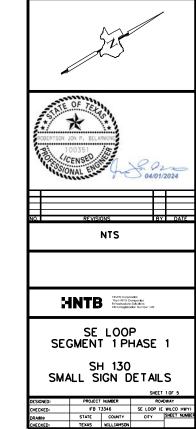
REMOVE AND REPLACE EXISTING SIGN. NEW SIGN LOCATION - SEE SUMMARY OF SMALL SIGNS.



PROPOSED S11

REMOVE AND REPLACE EXISTING SIGN.





TXDOT TO VERIFY ADEQUACY OF EXISTING MAST ARMS TO SUPPORT PROPOSED SIGNS S4

ALL SIGN DIMENSIONS SHOWN

ARE IN INCHES.

NOTES:

			(X-XXXX)	YY (Y)	ASSM TY XX	NS SGN		A L ⊋ s					
		BRIDGE MOUNT	\^- <u>^^</u>		ASSM II VV	JON	2M KI	ᇦᇦ					
		CLEARANCE	PEC I CALATION	1401	ANGUAR TURS	20070	DOST THOS	(TYPE (TYPE					PLAN
		SIGNS (See	DESIGNATION Tor 2EXT = # of Ext		ANCHOR TYPE UA=Universal Conc	POSTS	POST TYPE			SIGN	SIGN	SIGN	HEET
		Note 2)	= Extruded Wind Beam		UB•Universal Bolt		FRP = Fibergloss TWT = Thin-Woll	ALUMINUM ALUMINUM	JITENSTONS	3104	NOMENCLATURE	NO.	NO.
		TY - TYPE	= 1.12 #/ft Wing Channel	• "Plain" • "T"	SA=Slipbase-Conc SB=Slipbase-Bolt	1 or 2	TWT = Thin-Wall 10BWG = 10 BWG						
		TY N TY S	L= Extruded Alum Sign Panels		•		S80 - Sch 80	FLAT					
										LT Arrow - East Wilco Hwy			
			ARM	XISTING M	INSTALL ON			Х	114 X 25		D1-2	S4	
	ALUMINUM SIGN I									Gattis School Rd - RT Arrow			
	Less than 7.5									LT Arrow - East Wilco Hwy			\dashv
0.10	7.5 to 15		ВМ	U	SA	1	S8Ø	Х	126 X 30		D1-2	S5	
1 15 0.12	Greater than 15		50291, -97.58062 IG LOCATION	OCATION: AM OF EXIS	NEW SIGN / NEW 240' UPSTR					Gattis School Rd - RT Arrow			
								\blacksquare		LT Arrow - Gattis School Rd			\neg
			ARM	XISTING M	INSTALL ON			Х	114 X 26		D3-1	S6	
d Highway Sign De (SHSD) can be four	for Texas (SHSD)									East Wilco Hwy - RT Arrow			
'ng website. //www.txdot.gov/	the following w									T hru Arrow - East Wilco H wy			$\overline{}$
/www.txdot.gov/	Intp.//wwv		ВМ	U	SA	1	S8Ø	Х	96 X 24		D1-2	S7	
			51522, -97.57637 IG LOCATION	OCATION: AM OF EXIS	NEW SIGN / NEW 750' UPSTR					Thru Arrow - Gattis School Rd			
	NOTE:							\blacksquare		LT Arrow - Gattis School Rd			\neg
except that the	 Sign supports shall on the plans, exce 		ВМ	U	SA	1	S8Ø	Х	126 X 3Ø		D1-2	S11	二
sign supports, wines, where neces	may shift the sign design guidelines.		TION	XISTING L	INSTALL AT			+		East Wilco Hwy - RT Arrow			-+
desirable locati	secure a more des avoid conflict wit												
wn on the plans,	otherwise shown or Contractor shall s												
	will verify all s												
idge Mounted Clea	For installation of signs, see Bridge												
S) Standard Sheet.	Assembly (BMCS)Sto							+					\dashv
ort Descriptive (3. For Sign Support [\blacksquare					
Notes & Details	Sign Mounting Deta Signs General Note												ightharpoonup
								+					\dashv
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ent of Transportation	Texas Department of				-			+					\dashv
MAADY AF	C 1 1A A A							\blacksquare					
MMARY OF ALL SIGNS								\Box					〓
ILL SIGNS	SMALL				+			+					\dashv
6066								\blacksquare					\dashv
SOSS DN: TXDOT CK: TXDOT		511						\pm					世
CONT SECT JOB								+					\dashv
DIST COUNTY	16							\Box					

REQUIREMENTS FOR INDEPENDENT MOUNTED ROUTE SIGNS

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



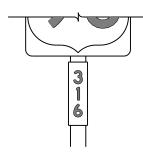




TYPICAL EXAMPLES

REQUIREMENTS FOR BLUE, BROWN & GREEN D AND I SERIES GUIDE SIGNS

SHEETING REQUIREMENTS										
USAGE	COLOR	SIGN FACE MATERIAL								
BACKGROUND	ALL	TYPE B OR C SHEETING								
LEGEND & BORDERS	WHITE	TYPE D SHEETING								
LEGEND, SYMBOLS & BORDERS	ALL OTHERS	TYPE B OR C SHEETING								













TYPICAL EXAMPLES

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).
- 2. White legend shall use the Clearview Alphabet. The following Clearview fonts shall be used to replace the existing white Federal Highway Administration (FHWA) Standard Highway Alphabets, when not specified in the SHSD, or in the plans.

В	CV-1W
С	CV-2W
D	CV-3W
Ε	CV-4W
Emod	CV-5WR
F	CV-6W

- 3. Route sign legend (ie. IH, US, SH and FM shields) shall use the Federal Highway Administration (FHWA) Standard Highway Alphabets B, C, D, E, Emod or F).
- 4. 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.
- 5. Independent mounted route sign with white or colored legend and borders shall be applied by screening process with transparent color ink, transparent colored overlay film to white background sheeting or cut-out white sheeting to colored background sheeting, or combination thereof. White legend, symbols and borders on all other signs shall be cut-out white sheeting applied to colored background sheeting.
- 6. Information regarding borders and radii for signs is found in the "Standard Highway Sign Designs for Texas". Dimensions shown and described for borders and corner radii on parent sign are nominal. Borders may vary in width as much as 1/2 inch. Corner radii above 3 inches may vary in width as much as 1 inch. Borders and corner radii within a parent sign must be of matching widths. The sign area outside the corner radius should be trimmed or rounded.
- 7. Sign substrate shall be any material that meets the Departmental Material Specification requirements of DMS-7110 or approved alternative.
- 8. Mounting details of roadside signs are shown in the "SMD series" Standard Plan Sheets.

DEPARTMENTAL MATERIAL SPEC	IFICATIONS
ALUMINUM SIGN BLANKS	DMS-7110
SIGN FACE MATERIALS	DMS-8300

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

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

http://www.txdot.gov/



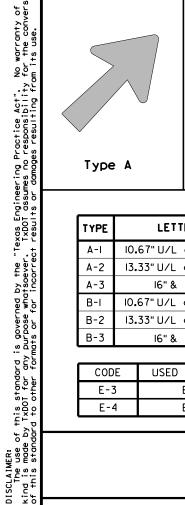
TYPICAL SIGN REQUIREMENTS

Traffic Operations Division Standard

TSR(3)-13

FILE:	tsr3-13.dgn	DN: T	×DOT	ck: TxDOT	DW:	TxDOT	ck: TxDOT
C TxDOT	October 2003	CONT	SECT	JOB		HIG	GHWAY
	REVISIONS						
12-03 7-13		DIST		COUNTY			SHEET NO.
9-08							

SIGN BLANK PUNCHING DETAILS FOR ATTACHMENTS WHEN SPECIFIED TO BE TYPE A ALUMINUM SIGNS (FOR MOUNTING TO GUIDE SIGN FACE)

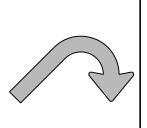


Type A

No warranty of any for the conversion

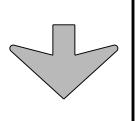


Type B



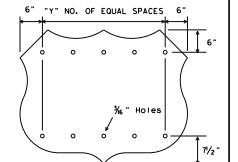
E-3

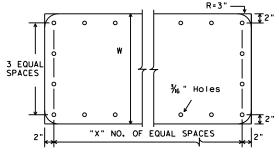




Down Arrow

‰" Ho∣es





STATE ROUTE MARKERS

INTERSTATE ROUTE MARKERS

Α	С	D	Ε
36	21	15	11/2
48	28	20	13/4

EXIT ONLY PANEL

Sign Size	"Y"
24×24	2
30×24	3
36×36	3
45×36	4
48×48	4
60×48	5

U.S. ROUTE MARKERS

No.of Digits	W	Х
4	24	4
4	36	5
4	48	6
3	24	3
3	36	4
3	48	5

TYPE	LETTER SIZE	USE
A-I	10 . 67" U/L and 10" Caps	Single
A-2	13.33" U/L and 12" Caps	Lane
A-3	16" & 20" U/L	Exits
B-I	10.67" U/L and 10" Caps	Multiple
B-2	13.33" U/L and 12" Caps	Lane
B-3	16" & 20" U/L	Exits

CODE	USED ON SIGN NO.
E-3	E5-IaT
E-4	E5-lbT

NOTE

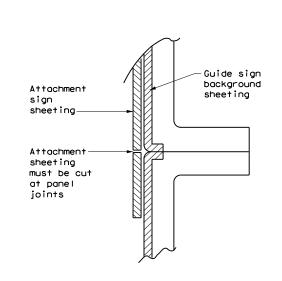
Arrow dimensions are shown in the "Standard Highway Sign Designs for Texas" manual.

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

http://www.txdot.gov/

dia.

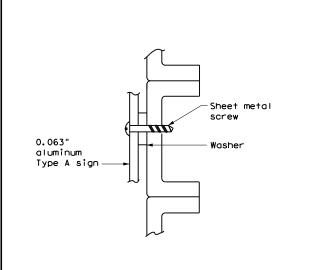
MOUNTING DETAILS OF ATTACHMENTS TO GUIDE SIGN FACE ("EXIT ONLY" AND "LEFT EXIT" PANELS, ROUTE MARKERS AND OTHER ATTACHMENTS)



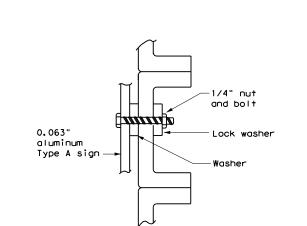


NOTE:

- 1. Sheeting for legend, symbols, and borders must be cut at panel joints.
- 2. Direct applied attachment signs will be subsidiary to "Aluminum Signs" or "Fiberglass Signs".



SCREW ATTACHMENT



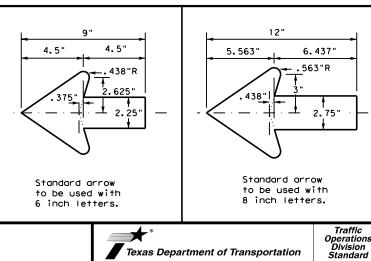


NOTE:

Furnish Type A aluminum sign attachments only when specified in the plans. These signs will be paid for under "Aluminum Signs".

ARROW DETAILS

for Destination Signs (Type D)





TYPICAL SIGN REQUIREMENTS

TSR(5)-13

ILE: tsr5-13.dgn	DN: T	KD0T	ck: TxDOT	DW:	TxDOT	ck: TxDOT
TxDOT October 2003	CONT	SECT	JOB		HI	GHWAY
REVISIONS						
2-03 7-13 9-08	DIST		COUNTY			SHEET NO.
9-08						

SIGN SUPPORT DESCRIPTIVE CODES (Descriptive Codes correspond to project estimate and quantities sheets)

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))
- 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 = Prefab. "T" (see SMD(SLIP-1) to (SLIP-3). (TWT))

U = Prefab. "U" (see SMD(SLIP-1) to (SLIP-3)) IF REQUIRED

No more than 2 sign

posts should be located

within a 7 ft. circle.

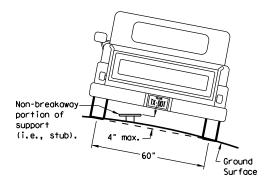
1EXT or 2EXT = Number of Extensions (see SMD(SLIP-1) to (SLIP-3), (TWT)) BM = Extruded Wind Beam (see SMD(SLIP-1) to (SLIP-3))

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

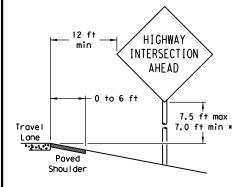
7 ft. diameter

circle

Not Acceptable

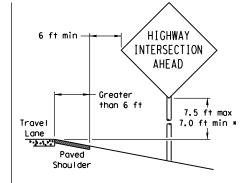
SIGN LOCATION

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.



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 der

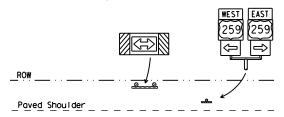
T-INTERSECTION

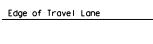
12 ft min

← 6 ft min

7.5 ft max

7.0 ft min *





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

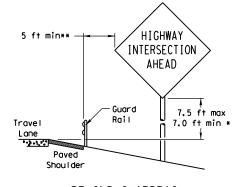
Texas Department of Transportation Traffic Operations Division

SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS

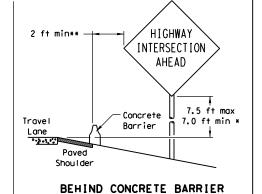
SMD (GEN) - 08

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BEHIND BARRIER



BEHIND GUARDRAIL



RESTRICTED RIGHT-OF-WAY

(When 6 ft min, is not possible,)

7.5 ft max

7.0 ft min *

HIGHWAY

INTERSECTION

AHEAD

 $\hbox{\tt **Sign clearance based on distance required for proper guard rail or concrete barrier performance.}$

Maximum

Travel

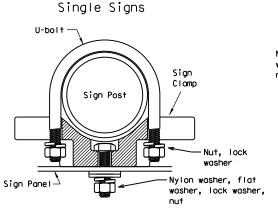
Lane

possible

TYPICAL SIGN ATTACHMENT DETAIL

diameter

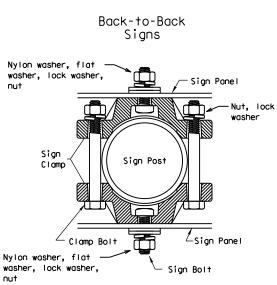
circle



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



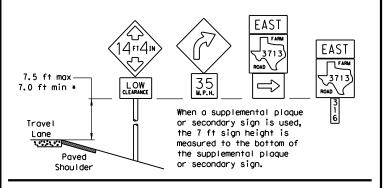
diameter

circle

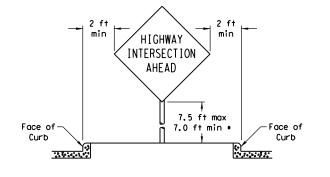
Acceptable

	Approximate Bolt Length						
Pipe Diameter	Specific Clamp	Universal Clamp					
2" nominal	3"	3 or 3 1/2"					
2 1/2" nominal	3 or 3 1/2"	3 1/2 or 4"					
3" nominal	3 1/2 or 4"	4 1/2"					

SIGNS WITH PLAQUES



CURB & GUTTER OR RAISED ISLAND

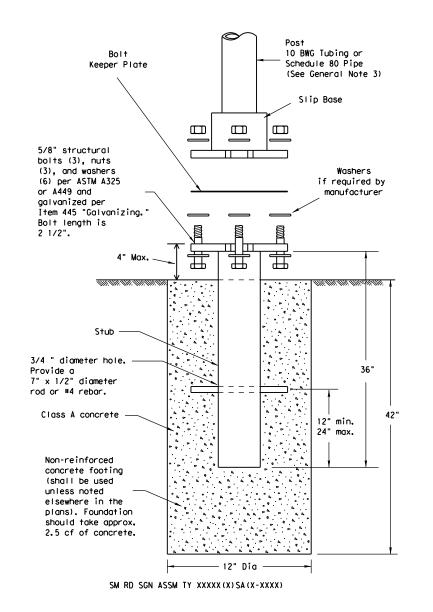


Right-of-way restrictions may be created by rocks, water, vegetation, forest, buildings, a narrow island, or other factors.

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

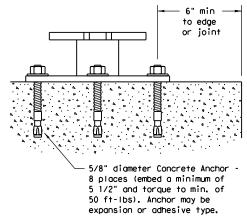
TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS



NOTE

There are various devices approved for the Triangular Slipbase System. Please reference the Material Producer List for approved slip base systems. http://www.txdot.gov/business/producer list.htm The devices shall be installed per manufacturers' recommendations. Installation procedures shall be provided to the Engineer by Contractor.

CONCRETE ANCHOR



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

Concrete anchor consists of 5/8" diameter stud bolt with UNC series bolt threads on the upper end. Heavy hex nut per ASTM A563, and hardened washer per ASTM F436. The stud bolt shall have a minimum yield and ultimate tensile strength of 50 and 75 KSI, respectively. Nuts, bolts and washers shall be galvanized per Item 445, "Galvanizing." Adhesive type anchors shall have stud bolts installed with Type III epoxy per DMS-6100, "Epoxies and Adhesives." Adhesive anchors may be loaded after adequate epoxy cure time per the manufacturer's recommendations. Top of bolt shall extend at least flush with top of the nut when installed. The anchor, when installed in 4000 psi normalweight concrete with a 5 1/2" minimum embedment, shall have a minimum allowable tension and shear of 3900 and 3100 psi, respectively.

GENERAL NOTES:

- 1. Slip base shall be permanently marked to indicate manufacturer. Method, design, and location of marking are subject to approval of the TxDOT Traffic Standards Engineer.
- Material used as post with this system shall conform to the following specifications:

10 BWG Tubing (2.875" outside diameter)

0.134" nominal wall thickness

Seamless or electric-resistance welded steel tubing or pipe Steel shall be HSLAS Gr 55 per ASTM A1011 or ASTM A1008

Other steels may be used if they meet the following:

55,000 PSI minimum yield strength 70,000 PSI minimum tensile strength

20% minimum elongation in 2"

Wall thickness (uncoated) shall be within the range of 0.122" to 0.138"

Outside diameter (uncoated) shall be within the range of 2.867" to 2.883"

Galvanization per ASTM A123 or ASTM A653 G210. For precoated steel tubing (ASTM A653), recoat tube outside diameter weld seam by metallizing with zinc wire per ASTM B833.

Schedule 80 Pipe (2.875" outside diameter)

0.276" nominal wall thickness

Steel tubing per ASTM A500 Gr C

Other seamless or electric-resistance welded steel tubing or pipe with equivalent

outside diameter and wall thickness may be used if they meet the following:

46,000 PSI minimum yield strength

62,000 PSI minimum tensile strength

21% minimum elongation in 2"

Wall thickness (uncoated) shall be within the range of 0.248" to 0.304" Outside diameter (uncoated) shall be within the range of 2.855" to 2.895"

Galvanization per ASTM A123

3. See the Traffic Operations Division website for detailed drawings of sign clamps and Texas Universal Triangular Slipbase System components. The website address is:

http://www.txdot.gov/publications/traffic.htm

4. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.

ASSEMBLY PROCEDURE

Foundation

- 1. Prepare 12-inch diameter by 42-inch deep hole. If solid rock is encountered, the depth of the foundation may be reduced such that it is embedded a minimum of 18 inches into the solid rock.
- 2. The Engineer may permit batches of concrete less than 2 cubic yards to be mixed with a portable. motor-driven concrete mixer. For small placements less than 0.5 cubic yards, hand mixing in a suitable container may be allowed by Engineer. Concrete shall be Class A.
- 3. Push the pipe end of the slip base stub into the center of the concrete. Rotate the stub back and forth while pushing it down into the concrete to assure good contact between the concrete and stub. Continue to work the stub into the concrete until it is between 2 to 4 inches above the ground.
- 4. Plumb the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer.
- 5. The triangular slipbase system is multidirectional and is designed to release when struck from any direction.

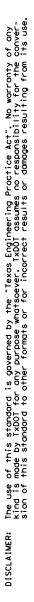
- 1. Cut support so that the bottom of the sign will be 7 to 7.5 feet above the edge of the travelway (i.e., edge of the closest lame) when slip plate is below the edge of pavement or 7 to 7.5 feet above slip plate when the slip plate is above the edge of the travelway. The cut shall be plumb and
- 2. Attach sign to support using connections shown. When multiple signs are installed on the same support, ensure the minimum clearance between each sign is maintained. See SMD(SLIP-2) for clearances based on sign types.



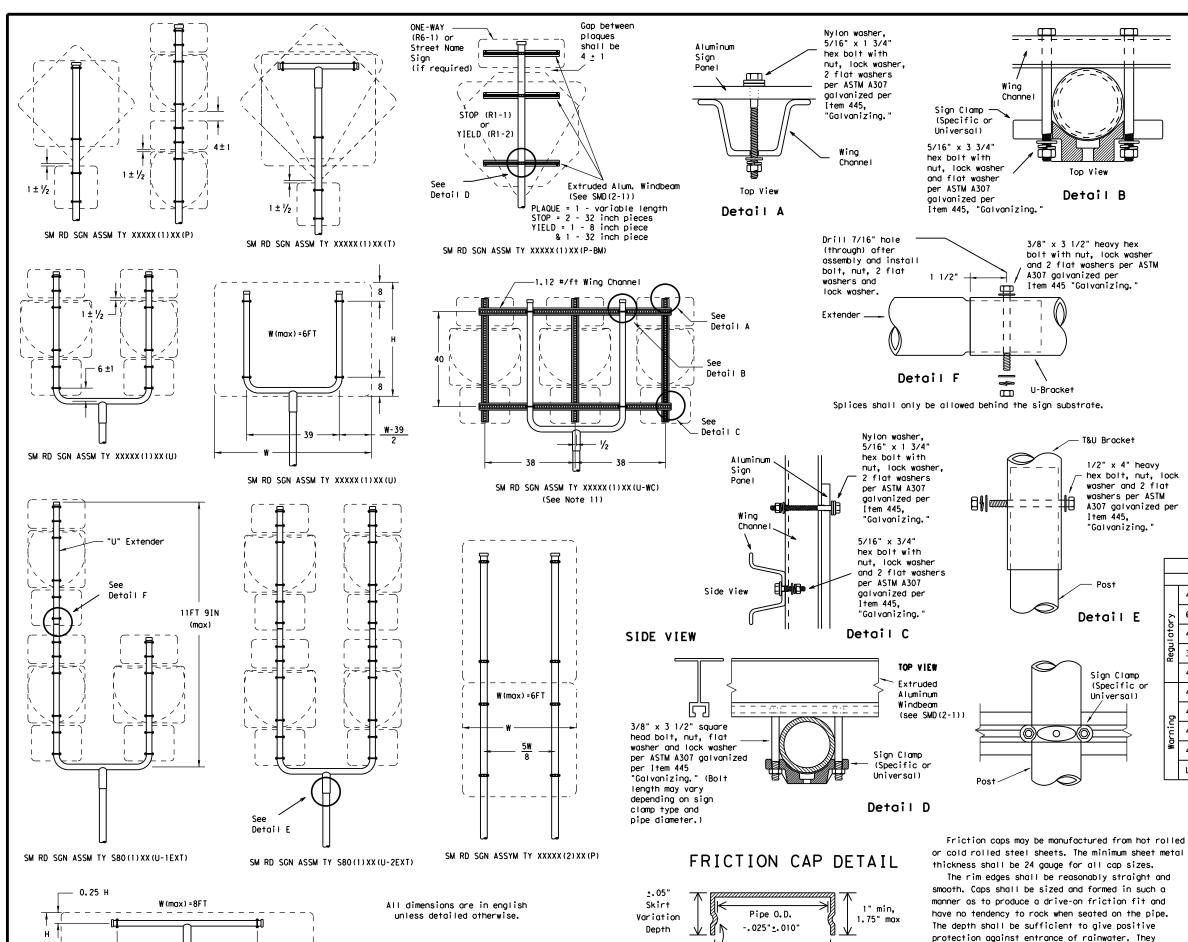
SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

SMD (SL IP-1) -08

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	DIST		COUNTY			SHEET NO.







Rolled Crimp to

engage pipe 0.D.

Pipe O.D.

+. 025" +. 010"

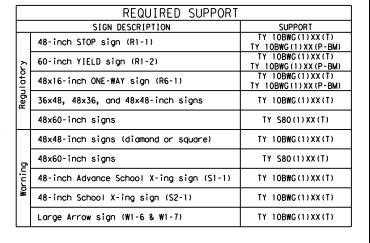
SM RD SGN ASSM TY XXXXX(1)XX(T)

(* - See Note 12)

GENERAL NOTES:

1.	SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA
	10 BWG	1	16 SF
	10 BWG	2	32 SF
	Sch 80	1	32 SF
	Sch 80	2	64 SF

- The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
- 3. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
- 5. Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
- 6. For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of
- greater height.
 7. When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
- Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
- 9. Excess pipe, wing channel, or windbeam shall be cut off so that it does not extend beyond the sign panel (i.e., excess support shall not be visible when the sian is viewed from the front,) Repair galvanized coating at cut support ends per Item 445, "Galvanizing."
- 10. Additional route markers may be added vertically, provided the total sign area does not exceed the maximum allowable amount per Note 1.
- 11. Additional sign clamp required on the "T-bracket" post for 24 inch height signs. Place the clamp 3 inches above bottom of sign when possible.
- 12. Post open ends shall be fitted with Friction Caps.
- 13. Sign blanks shall be the sizes and shapes shown on the plans.





SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

SMD(SLIP-2)-08

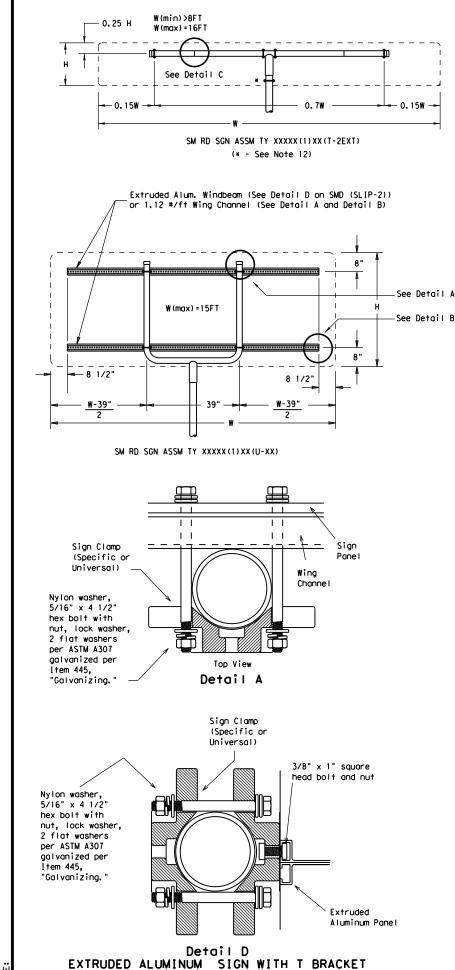
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	D	DIST		COUNTY			SHEET	NO.

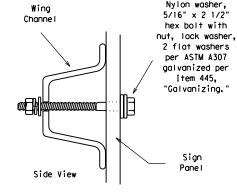
shall be free of sharp creases or indentations and show no evidence of metal fracture.

zinc in accordance with the requirements of ASTM

B633 Class FE/ZN 8.

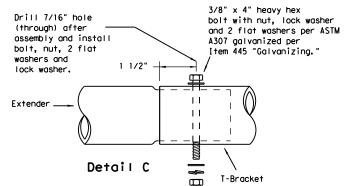
Caps shall have an electrodeposited coating of





Detail B

w variable



Splices shall only be allowed behind the sign substrate.

Sign

Clamps

(Specific or

Universal)

3/8" x 4 1/2"

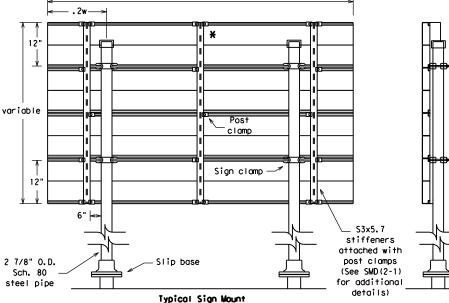
square head bolt, nut, flat washer and lock washer per

ASTM A307 galvanized

per Item 445.

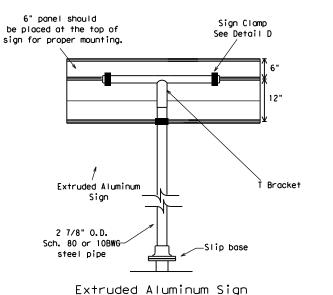
"Galvanizina.

Detail E

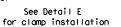


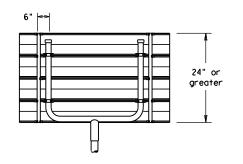
SM RD SGN ASSM TY S80(2)XX(P-EXAL)

* Additional stiffener placed at approximate center of signs when sign width is greater than 10'.



With T Bracket





Use Extruded Alum. Windbeam as stiffeners See SMD (2-1) for additional details See Detail E for clamp installation

GENERAL NOTES:

1.	SIGN SUPPORT	# OF POSTS	MAX. SIGN AREA
	10 BWG	1	16 SF
	10 BWG	2	32 SF
	Sch 80	1	32 SF
	Sch 80	2	64 SF

- The Engineer may require that a Schedule 80 post be used in place of a 10 BWG where a sign height is abnormally high due to a fill slope.
- Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- 4. Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 sq. ft., and 0.125 for signs greater than 15 sq. ft.
- Signs that require specific supports due to reasons in addition to windloading are indicated on the "REQUIRED SUPPORT" table on this sheet.
- For horizontal rectangular signs fabricated from flat aluminum, T-brackets are used for signs 24 inches or less in height. U-brackets are used for signs of greater height.
- greater height.

 7. When two triangular slipbase supports are used to support a single sign, they shall not be "rigidly" connected to each other except through the sign panel. This will allow each support to act independently when impacted by an errant vehicle.
- Wing channel shall meet ASTM A 1011 SS Gr 50 and be galvanized per ASTM A 123.
- Excess pipe, wing channel, or windbeam shall be cut
 off so that it does not extend beyond the sign panel
 (i.e., excess support shall not be visible when the
 sign is viewed from the front.) Repair galvanized
 coating at cut support ends per Item 445, "Galvanizing."
- 10. Sign blanks shall be the sizes and shapes shown on the plans.
- 11. Additional sign clamp required on the "T-bracket" post for 24 inch high signs. Place the clamp 3 inches above bottom of sign when possible.
- 12. Post open ends shall be fitted with Friction Caps.

	REQUIRED SUPPORT	
	SIGN DESCRIPTION	SUPPORT
	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
,	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
•	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
!	48-inch School X-ing sign (S2-1)	TY 10BWG(1)XX(T)
	Large Arrow sign (W1-6 & W1-7)	TY 10BWG(1)XX(T)



SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM

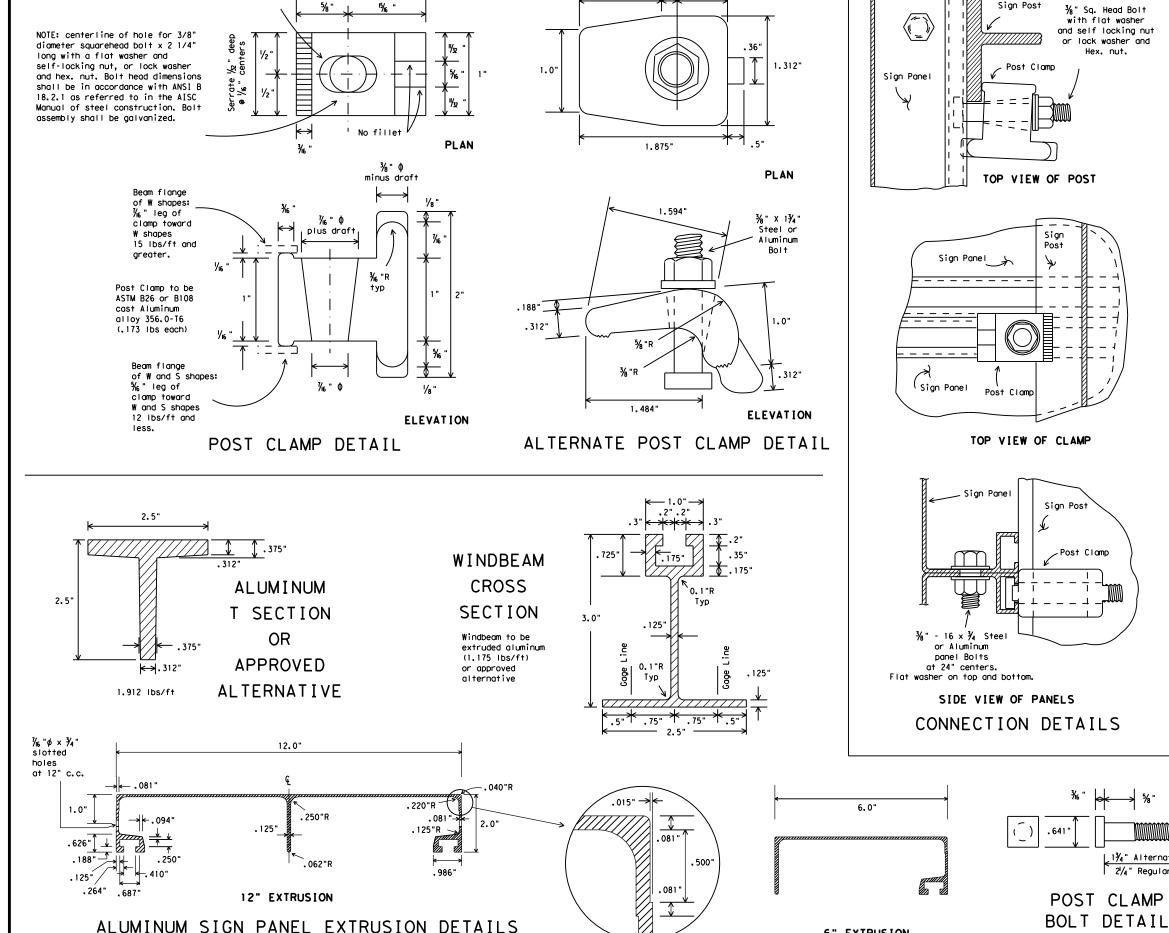
SMD(SLIP-3)-08

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9-08	REVISIONS	CONT	SECT	JOB		HI	GHWAY
		DIST		COUNTY			SHEET NO.

1/16" × 11/16"

slotted hole

1% "



. 25"

1.0"

.625"

DEPARTMENTAL MATERIAL SPECIFICATIONS

SIGN HARDWARE

DMS-7120

GENERAL NOTES:

- Design conforms with AASHTO Specifications for the design and construction of structural supports for highway signs.
- 2. Materials and fabrication shall conform to the requirements of the Department material specifications.
- 3. Structural steel shall be "low-alloy steel" for non-bridge structures per Item 442, "Metal For Structures."
- 4. For fiberglass substrate connection details, see manufacturer's recommendations.

Texas Department of Transportation Traffic Operations Division

SIGN MOUNTING DETAILS-EXTRUDED ALUMINUM SIGN PANELS & HARDWARE

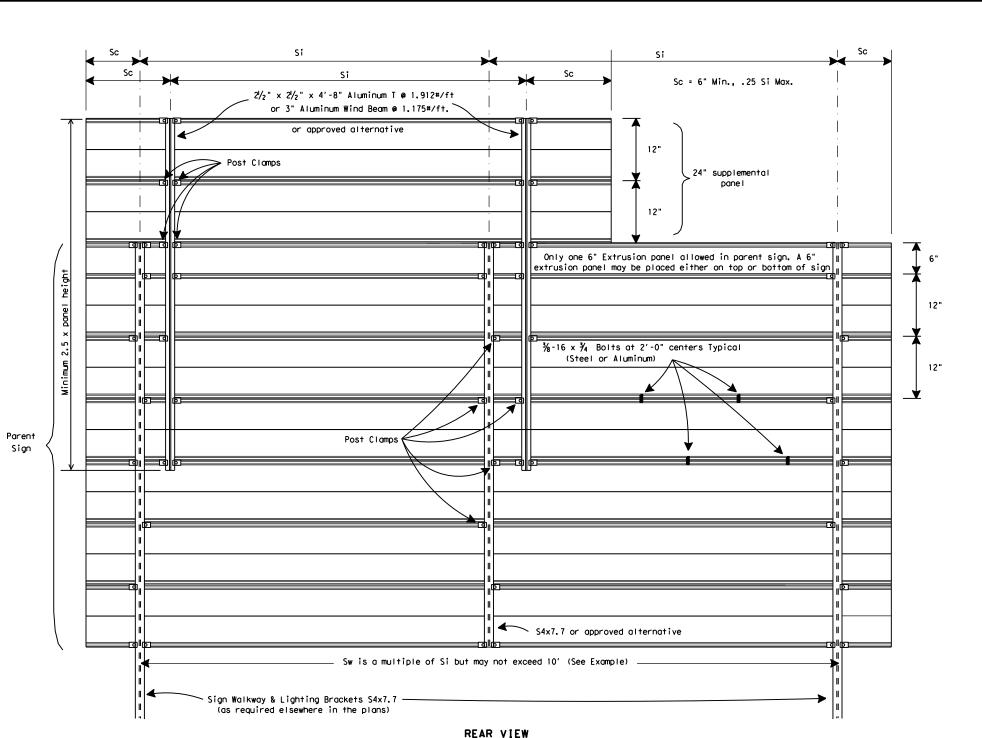
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		DIST		COUNTY			s	HEET NO.

1¾" Alternate clamp

21/4" Regular clamp

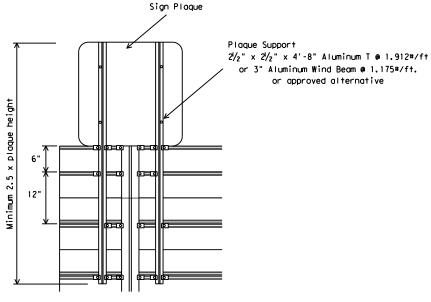
6" EXTRUSION



EXAMPLES (FOR DETERMINING Si and Sw)

					• • •		
NO.	ZONE	"d"	EXIT PANEL	WALKWAY	Si	Sw	COMMENT
1	1	15.0	YES	YES	4.5	9.0	Sw=2x(Si)
2	2	14.0	YES	NO	7.5	7.5	Sw = Si
3	1	15.0	NO	NO	8.5	8.5	Sw = Si
4	3	14.0	NO	YES	10.0	10.0	Sw = Si

Values shown for Si are maximum values. Si may be varied for different sign lengths and Truss mounting conditions. Sw should not exceed two times Si(Max.) or 10 feet.



SIGN PLAQUE MOUNTING DETAIL

	MA	ΧIΜ	UM	SIG	N SU	PPC	RT	SPA	CINO	3 " 5	Si"	(FE	EET)			
"d"					EX1	RUDE	ED AL	UMIN	IUM S	IGN I	PANE	LS				
Deepest		WITH	H EX	IT N	UMBER	PANE	LS		١	VI TH	TUC	EXIT	NUMBE	R P	ANEL:	S
Sign in	WITH WALKWAYS WITHOUT WALKWAYS WITH WALKWAYS WITHOUT WALKWAY															WAYS
Group	WIND ZONE WIND ZONE WIND ZONE WIND ZONE															NE
(F + •)	1	2	3	4	1	2	3	1	2	3	4	1	2	3	4	
15	4.5	7	8	10	5	7	8	10	7	8	9	10	8.5	10	10	10
14	6	7.5	9.5	10	6	7.5	9.5	10	8	9	10	10	10	10	10	10
13	7.5	9	10	10	7.5	9	10	10	9	10	10	10	10	10	10	10
12	8.5	10	10	10	8.5	10	10	10	10	10	10	10	10	10	10	10
11 or less	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10	10

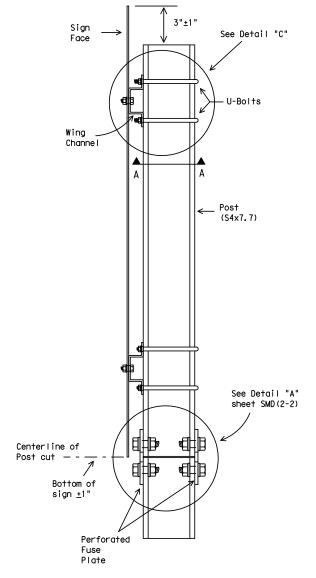
For fiberglass sign installations, see manufacturer's recommendations.



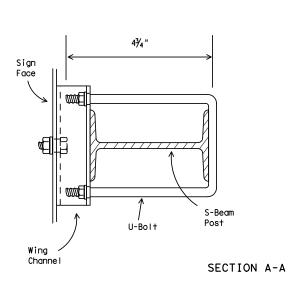
SIGN MOUNTING DETAILS-OVERHEAD SIGNS EXTRUDED ALUMINUM SMD (2-4) -08

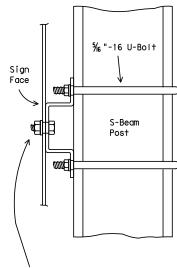
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9-08 REVISIONS	CONT	SECT	JOB		н	GHWAY
	DIST		COUNTY			SHEET NO.

WING CHANNEL CLAMP DETAIL FOR TYPE G MOUNT



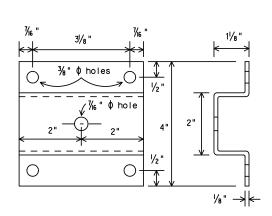
SIDE VIEW





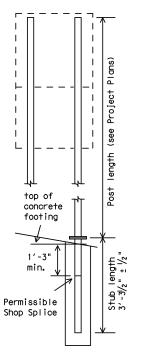
Galvanized steel or aluminum self-locking hex. head nut. 3/8 " - 16 x 3/4 " hex. head bolt for sheet metal. 3/8 " - 16 x 1 1/4 " hex. head bolt for plywood. 3/8 " galvanized medium washer.

DETAIL "C"

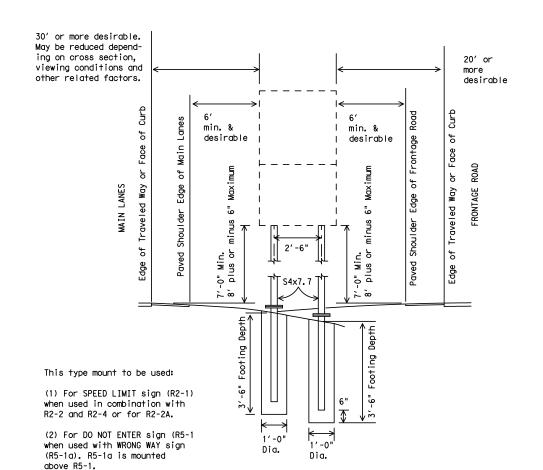


WING CHANNEL

Wing channel, 4" width x $1\frac{1}{8}$ " depth x $\frac{1}{8}$ " thickness, shall be aluminum (ASTM B221 6061-T6 or B308 6061-T6), galvanized steel (ASTM A36) or stainless steel (ASTM A167 type 304, No. 2B



The weight of one S4x7.7 post is equal to 112.2 lbs. plus 7.7 lbs./ft x (post length in feet minus 10 ft). The weight of 112.2 lbs. includes 10 feet of post length, post foundation stub, related connection plates, friction fuse plate, and all high strength bolts, nuts and



DEPARTMENTAL MATERIAL SPECIFICATIONS SIGN HARDWARE

DMS-7120

GENERAL NOTES:

- 1. Design conforms with AASHTO Specifications for the design and construction of structural supports for highway signs.
- 2. Materials and fabrication shall conform to the require-
- ments of the Department material specifications.

 3. Structural steel shall be "Low-Alloy Steel" for non-bridge structures per Item 442, "Metal For Structures."

 4. Parts shall be saw cut either before galvanizing and the galvanized cut cleaned of zinc build-up, or saw cut after galvanizing and the cut surface repaired per Item 445, "Galvanizing." (Cut surface will not be treated until plate is installed and all bolts fully tightened.)



SIGN MOUNTING DETAILS, TYPE G SUPPORT

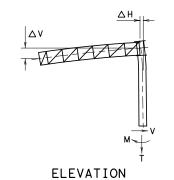
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į,	THOI	TOWER F	PIPE	AN BC	CHOR OLTS	BAS PLA	SE TE	TRUSS	DES	SIGN L	OADS	1	OWER I	PIPE	,	ANCHO BOLT	OR S	BAS PLA	E . TE	TRUSS	DE	SIGN I	_OADS		TOWER P	IPE	ANC BOI	HOR TS	BASE PLAT	E TF	RUSS	DESI	GN LOA	DS	TOWE	R PIPE		ANCHOR BOLTS	₹ ;	BASE PLATE	TRUSS	; DE'	SIGN LOA	4DS	WER IGHT
, }	型 O. C	in y		SIZE DIA N		SIZ	-	$\triangle V$	٧	Т	MOMENT M	0. D.	WALL THICK (in)	DEFL	SIZE		BOLT CIR	SIZ	-	DEFL △V	٧	TORSIO T	М		ALL HICK in)	DEFL	SIZE DIA NO	BOLT CIR	SIZE	4			RSION MO		0.D. \\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\\	DEF Δ	DIA	NO.	BOLT CIR	SIZE	\triangle V	1 / 1	TORSION M	м	ド里
Ľ	T) (111) (in) 全亡 (in) (in) DIA (in) (in) (kips) (K-ft) (K-ft) (in) 全亡 (in) (in) DIA (in) (in) (kips) (K-ft) (2 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0 0																7	/ ≤ ⊢ ∪	(in)	(in)	DIA	(in)	1//	in) (k		(-f+) (k	(-f+)) (in:		DIA	(in)			(K-f+) (K-f+)	-						
 -	4' 1€ 5' Å	0.250	0.105	1 1/4 1	0 20 /2	7 24 X	1 1/4	1	3.59				0.250		- 	1 8	∠∪ */4 '	247 ₂ ×	-, -		5.40	131.50		3 20	10.250	0.213	1 1/4 8	24 1/2	28 X	1 74 (). []	7.43 6		17.00	20 0.2		J8 1 /2	18	25"	29 × 1 ¹ / ₁		_	107.681	35.49	14'
· -	6' A	1 1	0.120	^		+ 1	-	1	3.62	1	53.42 57.00			0.270		+	1	1 1	_	0.6	5.41	+	81.9	_	1	0.244	1 3/	24 /2	28 X	3/ 0). []	7 45	-	13.96	\ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \ \		04 ↑	++	1		_	9.17		144.13 152.86	-
	7'		0.154		+	+		_	3.64		60.59			0.34		+	_				5.45		92.5	-		0.278	1 98	24 94	2872X		0.8	7.47		21.17 28.42					25"	29 × 1 ½		9.19		161.65	
 -	<u>,</u>				,	+ +		_								+++	_	241/2	1 3/2				97.9	-		0.352		+ 1	1 1	_		7.49		35.72	0.3		60 1 3/4			29 / 4× 1 5		9.23		170.51	_
. -	۵,	3.66 64.21 0.389 24½×1¾ 0.7 5.46 0.193 6 3.67 67.85 0.434 24½×1½ 0.7 5.48															103.	-		0.392	1 3/8	24 3/4	"28½×	_	0.9	7 51		43.06		312 0.5	74	+++-		29 3/4× 1 5		9. 25		179.43	_						
: -	0'		0.133		8	+ +	\dashv	-	3.69		71.51	++	$\vdash \downarrow \vdash$	0.48		╁┼	+	2772		0.8	5.50		108.			0.435	1 1/2	25"	29 ×			7.53		50.43		312 0.5		+++		29 3/4× 1 3				188.39	-
—	1'	+ + -	0.235		} 	+ +	-	_	3.71		75.18	+	0.250			╁	_	1	_	1	5.51		114.	_		0.479	1/2	1 2	123 ^		1.0	7.55		57.84	-	312 0.6	_	++-	+++	10 /4/ 1		9.29		197.41	
· -	2'		0.258			1			3.73		78.88	_		0.52		+	20 3/4	"24½×	11/2		5.53		119.	_	\downarrow	0.526		1 1	1	- -		7.57		65.28	-	344 0.6		+++	\rightarrow	$\overline{}$	_	9.31		206.47	
	3'		0.282					0.3	3.74		82.59	_	0.281			\pm	21"	25 ×			5.55	_	125.	_	0.250	0.575			29 ×	1/2		7.60		72.75		344 0.6		+++	+	29¾×13		9.34		215.57	
	4'		0.308			1 🗼			3.76		86.33		0.281) <u> </u>	ш	1		,,,		5.56		130.	-	0.281		↓ I I	1 🗼	29 ×			7.62		80.26	0.3		-	++		29¾×1	7/8 A	9.36		224.71	
	5'		0.334			24 ×	1 1/4		3.78		90.08		0.312			$\dagger \Box$		1			5.58		136.		0.281	0.607	1 1/2	25"	29 ×			7.64		87.79		375 0.7	48 V	+++	-	29¾×1	7/8 V	9.38		233.89	_
	6'		0.361			24 ×	1 3/8	$\neg \neg$	3.79		93.85		0.312	0.660		Ш		25 ×	1 5/8		5.60		141.	73	0.281	0.657	1 3/4	25 %	"29¾×	5/8	1 1	7.66	11	95.35	0.3	375 0.8	09 1 3/4	4 2	5 3/8 "	29¾×1	1/8 1.7	9.40		243.10	
	7'		0.389			1			3.81		97.64		0.312	0.71		Ш		25 ×	1 3/4		5.62		147.	30	0.310	0.640	A	1 1	29¾×	3/4		7.68	2	02.94	0.3	375 0.8	72 2	2'		30½× 2	1.8	9.42		252.34	
	8'		0.419						3.83		101.44	4	0.344	0.699)	I I I		1			5.63		152.	89	0.310	0.688			1 1		1 7	7.70	2	10.55	0.4	106 0.8	70 1	\Box	1		1	9.44		261.62	
	9'		0.449						3.84		105.26	5	0.344	0.750)	1 1	Ý	1 1			5.65		158.		0.310	0.738			1			7.72		18.20		106 0.9		$\Pi\Pi$				9.46		270.93	
	0'		0.481			V			3.86		109.11	1	0.344	0.802	2 1 1/2		21"	25 ×	1 3/4		5.67		164.	12	0.340	0.721			29¾×	3/4	1 7	7.74	2:	25.86	0.4	106 0.9	99			30½× 2		9.48	2	280.27	30′
	1′ /	Ý	0.513	y I	V V	24 ×	1 3/8	V	3.88	Y	112.96	5 V	0.375	0.79	1 1 3/4	· V	21 1/2	" 26 ×	1 1/8	Ý	5.68	I v	169.	77 V	0.340	0.770	V V	I	29¾×	1 7/8	y 7	7.77	y 2	33.56	y 0.4	441 0.9	92 Y	T	y	30½×2⅓	/4 V	9.50	V 2	289.64	31′
	2′ 16	0.250	0.547	1 1/4	8 20 1/2	" 24 ×	1 1/2	0.3	3.89	16.19	116.84	1 16	0.375	0.843	3 1 3/4	. 8	21 1/2 '	" 26 ×	1 1/8	0.8	5.70	37.50	175.	43 20	0.340	0.821	1 3/4 8	25 %	"29¾×	1 1/8	1.1 7	7.79 6	9.08 2	41.27	20 0.4	441 1.0	57 2	8 2	5 ¾"	30½×2½	/4 1.8	9.53	107.682	299.04	32′

										ZO	NE 3		WI	TH /	AND) \	WITH	HOL	JT	ICI	E	80	MPH	l V	IND											
						30	' SPAN										35′	SPA	N										40′	SPAN						\Box
TOWER HEIGHT	1	OWER I	PIPE		NCH BOLT		BASE PLATE	TRUS	S D	ESIGN I	OADS		TOWER F	PIPE		NCH BOL 1		BA PL <i>A</i>	SE ATE	TRUSS	DE:	SIGN L	OADS	1	OWER P	IPE		NCHO BOLT		BAS PLA	E TE	TRUSS	DE	SIGN LO	DADS	TOWER HEIGHT
(f+)	0.D.	WALL THICK (in)	DEFL	SIZE DIA (in)	NO.	BOLT CIR DIA	SIZE (in)	DEFI	I v	T	MOMENT M (K-f+)	0. D. (in)	WALL THICK (in)	DEFL △H (in)	SIZE DIA (in)	NO.	BOLT CIR DIA	SIZ (ir		Δ۷	٧	T	MOMENT M (K-f+)	0. D. (in)	WALL THICK (in)	DEFL DEFL	SIZE DIA (in)	NO.	BOLT CIR DIA	SIZ (in	-	or V S A S	٧	TORSION T	MOMENT M (K-f+)	
			0.289	1 1/2	8	29"	33 × 1 ½	_	_	_	4 167.11	_	0.250		1 3/4	8	35 3/8"	393/4	17 x 1 1/2				202.48	-	0.280		1 3/4	a		39 1/8×	_				242.20	
15′	7	0.250	_	1 1/2	╁	29"	33 × 1 ½	-		3 1	177.27	70	10.230	0.241	1 /4	H	JJ /8	3374	. 1/2		12.90		213.97		10.200	0.298	1 3/4	HĂ I		39 1/8×			14.68	-	254.69	
16'			0.338	1 3/4	ш		"33¾×1½		_	5	187.54			0.275		Н					12.93		225.63	_		0.339	1 3/4	_		39 1/8×			14.71		267.44	
17′	\top	1	0.381	Á	IIII	/ <u></u>	33¾×1½			8	197.93		0.250	0.310		Ш					12.97		237.46	_		0.383	2		35 3/4"				14.75		280.40	_
18′	\top	V	0.428		\Box		33¾×1½				208.40	\top		0.310		Ш					13.00		249.43		V	0.429	٨	Ш					14.78		293.56	_
19′		0.281	0.477		Ш		33¾×15⁄		11.1	3	218.97		٨	0.346		Ш				1.7	13.03		261.52		0.280	0.478		П		٨	T		14.81		306.90	19'
20′		0.312	0.477				33¾×15⁄	β V	11.1	5	229.60			0.383		Ш				1.8	13.06		273.72		0.312	0.478		П		V		2.6	14.84		320.39	20'
21′		٨	0.526				33¾×15	í 1.8	11.1	8	240.31			0.422		Ш				1.8	13.09		286.04		٨	0.527		Ш		40½×	1 5/8	2.6	14.87		334.02	21′
22′			0.577				33¾×1¾	1.9	11.2	0	251.08			0.463	٧	Ш	Y	٧		1.9	13.12		298.44			0.578				40½×	1 3/4	2.7	14.90		347.79	22′
23′		Y	0.631	lγ		Ý	33¾×1¾	2.0	11.2	3	261.91			0.507	1 3/4		35 ¾"						310.94			0.632				\		2.8	14.94		361.67	23′
24′		0.312	0.687	1 3/4		29 ¾'	" 33¾×1¾	4	11.2	5	272.80			0.552	2		35 ¾"						323.51		V	0.688				V		2.9	14.97		375.66	, 24′
25′		0.344	0.679	2	Ш	29 ¾'	"34½×1¾	<u>4</u>	11.2	8	283.74			0.598	٨	Ш					13.22		336.16	Ш	0.312	0.747		Ш		40⅓×		3.0	15.00		389.75	
26′		٨	0.735	1	Ш	1	34½× 2	2.0	11.3	0	294.73			0.647		Ш					13.25		348.89	Ш	0.340	0.736	Ý	Ш		401∕2×		3.0	15.03		403.94	
27′			0.792		Ш		1	2.1	11.3	3	305.77		Υ	0.698		Ш		401/2	× 1 ¾		13.28		361.68	_	٨	0.794	2		35 ¾"				15.06		418.22	
28′		Y	0.852		Ш			2.2	11.3	6	316.85			0.751		Ш		٨		2.3	13.31		374.53	_		0.854	2 1/4	Ш	36"	41 ×	2		15.09		432.57	
29′	_		0.914		Ш			1 1	11.3	8	327.97		0.310			Ш					13.35		387.45	_	¥	0.916	L 1	Ш	1	│			15.13		447.01	
30′		0.375	0.901		Ш			_	11.4	1	339.13		<u> </u>	0.777		Ш					13.38		400.42	_	0.340			Щ				_	15.16		461.52	_
31′	_		0.962	_	11	<u> </u>	<u> </u>	2.2			350.34	<u> </u>	 	0.830	Υ	LΥ	<u> </u>	Y	'		13.41	ν	413.45		0.375		_ ∤	L¥ L	Υ	<u> </u>			15.19		476.10	
32'	24	0.375	1.023	2	8	29 3/4'	"34½× 2	2.3	11.4	4155.4	4 361.13	30	0.310	0.884	2	8	35 ¾"	401/2	× 1 ¾	2.4	13.44	211.58	426.53	30	0.375	1.026	2 1/4	8	36"	41 ×	2	3.2	15.22	276.72	490.75	321



(SHOWING DESIGN LOADS AND DEAD LOAD DEFLECTIONS)

TRUSS DETAILS										
SPAN	10', 15', & 20'	25′	30′	35′	40′					
W × D = WIDTH × DEPTH	4.0 × 4.0	4.0 × 4.0	4.0 × 4.0	4.5 × 4.5	4.5 × 4.5					
CHORD-(), Unless Otherwise Shown	L 3 × 3 × 3/6 ② [3]	L $3 \times 3 \times \frac{1}{4}$ ② [4]	L 3 × 3 × $\frac{1}{4}$ [6]	L 3 × 3 × 1/6 [7]	L3 ½×3 ½× 1/6 [9]					
DEAD LOAD DIAGONAL-2	$L 2 \times 2 \times \frac{3}{6}$ [2]	L 2 × 2 × 3/6 [2]	$L 2 \times 2 \times \frac{3}{6}$ [2]	$L 2 \times 2 \times \frac{3}{6}$ [2]	L 2 × 2 × 3/6 [3]					
WIND LOAD DIAGONAL-2	L2 1/2×2 1/2× 3/6 [2]	L2 1/2×2 1/2× 3/16 [2]	$L \ 3 \times 3 \times \frac{1}{4}$ [2]	L 3 × 3 × ¼ [2]	L 3 × 3 × 1/4 [3]					
DEAD LOAD VERTICAL-②	L 2 × 2 × 3/6 [2]	$L 2 \times 2 \times \frac{3}{6}$ [2]	$L 2 \times 2 \times \frac{3}{16}$ [2]	$L2 \frac{1}{2} \times 2 \frac{1}{2} \times \frac{3}{6}$ [2]	L2 1/2×2 1/2× 3/6 [2]					
WIND LOAD STRUT-②	$L 2 \times 2 \times \frac{3}{6}$ [1]	$L 2 \times 2 \times \frac{3}{6}$ [1]	$L 2 \times 2 \times \frac{3}{6}$ [1]	$L 2 \times 2 \times \frac{3}{6}$ [1]	$L 2 \times 2 \times \frac{3}{6}$ [1]					
TRUSS DEAD LOAD	38 lb/f†	43 lb/f†	45 lb/f†	53 lb/f†	62 lb/ft					
SIZE H. S. BOLTS IN CONNECTION	5⁄8 " DIA	5% " DIA	5⁄8 " DIA	%" DIA	5% " DIA					
NO. & SIZE OF H. S. BOLTS IN CHORD		4 ~ % " DIA or	6 ~ 3/8" DIA or	7 ~ 5% " DIA or	9 ~ 5/8" DIA or					
ANGLE TO TOWER CONNECTION PLATE	3 ~ 5% " DIA eq	3 ~ 3/4" DIA eq	5 ~ 3/4" DIA ea	5 ~ 3/4" DIA ed	7 ~ 3/4" DIA ea					

① "Low-Alloy Steel" for non-bridge structures per Item 442, "Metal For Structures".

GENERAL NOTES :

Design conforms to AASHTO 1994 Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals and Interim

Revisions thereto.

Steel for tower pipe shall conform to ASTM A53
Grade B or to ASTM A501. Tower pipe wall thickness shown is the minimum allowable. Fabricator may use the wall thickness shown or pipe of the same diameter with greater wall thickness.

All connection bolts shall conform to Item 447, "Structural Bolting". All structural steel, connection bolts, nuts and washers shall be galvanized in accordance with the Specifications.

Compensate for truss deflection at free end by offsetting upper and lower bolt holes at truss-to-tower connection.

For truss details see standard drawing COSSD. For base and foundation details see standard drawing COSSF.

For cantilever truss lengths falling between those shown use sizes called for in the next longer span.

Truss and towers for cantilever sign supports are designed for the equivalent area of a 10'-0" deep sign gesigned for the equivalent area of a 10 -0 deep signal over 100% of the span length. Design includes 3 pounds per foot squared for sign panel and 20 pounds per foot for lights and 50 pounds per foot for walkways all placed as specified for the design sign panel.

Details called for hereon are applicable for Design Wind Heights up to 30' inclusive.

Number of High Strength bolts required in truss connection or splice are indicated in brackets, e.g. [3], after the member size.

Deflections shown include the design loads for

Truss, Sign Panel, Lights and Walkways.



CANTILEVER OVERHEAD SIGN SUPPORTS

COSS-Z3 & Z3I-10

© TxDOT November 2007	DN: TXDOT		CK: TXDOT	DW:	TXDOT	CK: TXDOT	
REVISIONS	CONT	SECT	JOB		HIO	HIGHWAY	
4-10							
	DIST	COUNTY			SHEET NO.		

② "Carbon Steel" for non-bridge structures per Item 442, "Metal For Structures".