WILLIAMSON COUNTY, TEXAS CHANGE ORDER NUMBER: 1

1. CONTRACTOR: Smith Contracting		Project: 24IFB19						
2. Change Order Work Limits: Sta. 1099+71.31 to	Sta. 1133+50.00	Roadway: <u>E Wilco Hwy</u>						
3. Type of Change(on federal-aid non-exempt projects):	<u>Minor</u> (Major/Minor)	CSJ Number: <u>N/A</u>						
4. Reasons: 3F (3 Max In order o	f importance - Primary first)							
5. Describe the work being revised:								
3F. Additional work desired by the County. This Change Order compensates the Contractor for the installation of additional signs to the project to increase the safety along the roadway as well as addressing the roadway name change. This Change Order also adds a pedestrian handrail to increase the safety along a section of the shared use path, and adds a line item for law enforcement presence during nighttime lane closure operations at the intersection of CR 138 and SH 130.								
6. Work to be performed in accordance with Items: See	Attached							
7. New or revised plan sheet(s) are attached and numbered	14A,135A,135B,1	53A,153B,153C,153D,153E						
8. New Special Provisions/Specifications to the contract are	attached: D Yes	⊠ No						
9. New Special Provisions to Item_N/A_ NoN/A_, Special	al Specification Item <u>N/A</u>	_are attached.						
Each signatory hereby warrants that each has the authority	to execute this Change Orde	er (CO).						
The contractor must sign the Change Order and, by doing so, agrees to waive	The following informa	ation must be provided						
any and all claims for additional compensation due to any and all other expenses; additional changes for time, overhead and profit; or loss of compensation as a result of this change.	Time Ext. #:0	Days added on this CO: 0						
THE CONTRACTOR Date 4/25/2024	Amount added by this char	nge order: \$29,920.92						
By Chris Lopez								
Typed/Printed Name Christopher R. Lopez								
Typed/Printed Title Project Manger								
RECOMMENDED FOR EXECUTION:								
	County Commissi	oner Precinct 1 Date						

All R			County Comr	nissioner P	Precinct 1	Date
-pala-DF	4/25/24		APPROVED		REQUEST A	PPROVAL
Project Manager	Date					
			County Comr	nissioner P	Precinct 2	Date
		_	-			
N/A			APPROVED		REQUEST A	PPROVAL
Design Engineer	Date					
			County Comr	nissioner P	Precinct 3	Date
Christian Suppose	5/1/2024		APPROVED		REQUEST A	
Christen Eschbergen Program Manager	Date	—		-	NEQUEUT /	
	2000					
Design Engineer's Seal:						
			County Comr	nissioner P	Precinct 4	Date
			APPROVED		REQUEST A	PPROVAL
			Cou	Inty Judge		Date
			APPROVED	my Judge		Dale
		-				

WILLIAMSON COUNTY, TEXAS

CHANGE ORDER NUMBER: ____1

Project # 24IFB19

TABLE A: Force Account Work and Materials Placed into Stock

LABOR	HOURLY RATE		HOURLY RATE	

TABLE B: Contract Items:

				ORIGINAL + PRE	VIOUSLY REVISED	ADD or (DEDUCT)		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
и	TOTALS	1			\$8,640.00			\$38,560.92	\$29,920.92

CHANGE ORDER REASON(S) CODE CHART

1. 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)
2. Differing Site Conditions	
(unforeseeable)	
	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)
5. County convenience	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
4. Third Farty Accommodation	4B. Third party requested work
	4C. Compliance requirements of new laws and/or policies (impacting third party)
	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.

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

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

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.

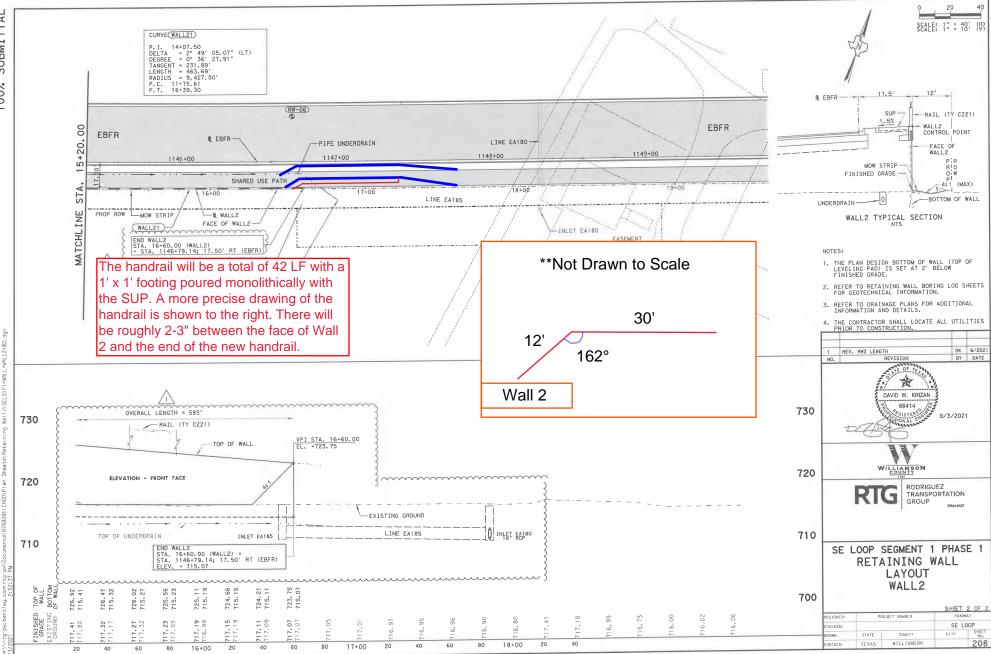


PROJECT: CR 138 Right Turn Lane at SH 130 4/18/2024

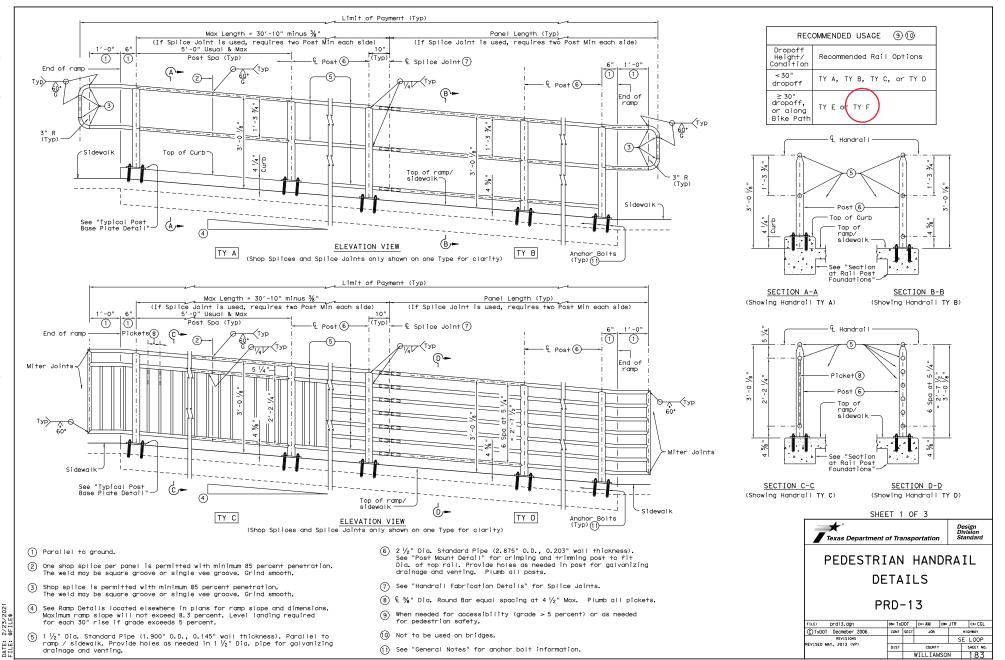
DATE: DESCRIPTION:

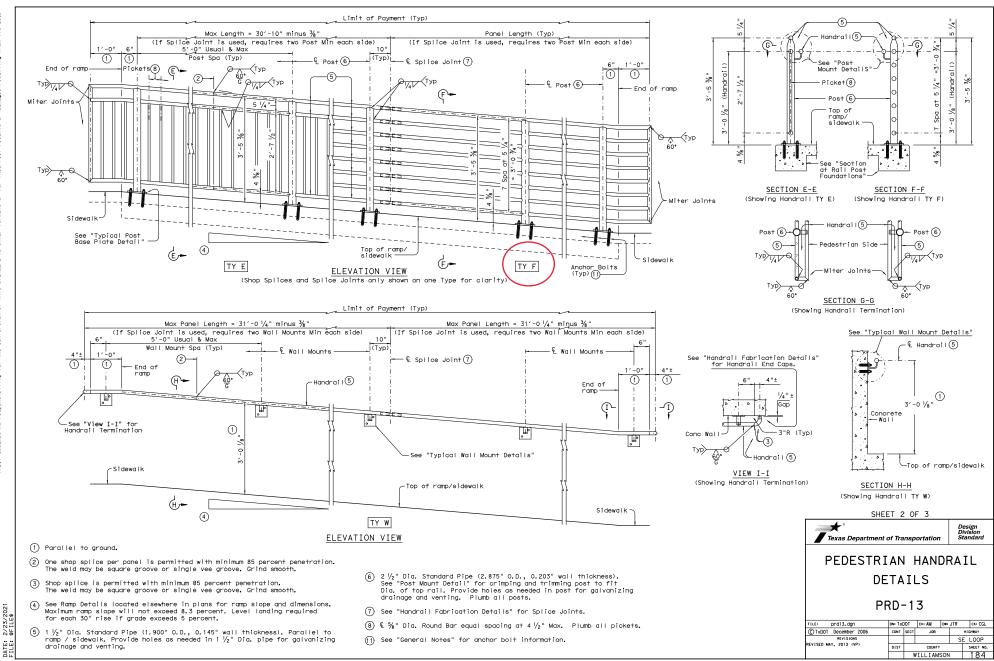
This proposal is for the addition of 42LF of TxDOT Ty F Pedestrian Railing. Expected lead time for fabrication of railing is 16 weeks from the time of approved shop drawings. Proposed cost for installation of new ped-rail is \$11,804.71.

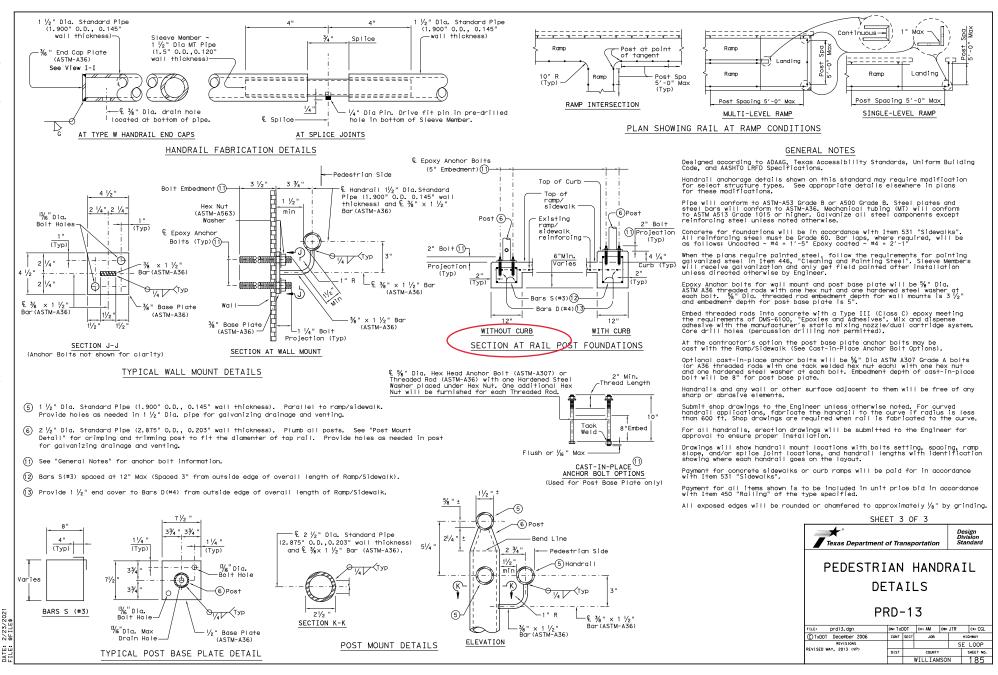
		RATE		1	2	3	RS WORI	S	6	7	TOTAL	RA	TE * TOTAL HOURS
BOR													
	Project Manager	\$ 75.									0.0	\$	-
	Superintendent	\$ 55.		40							0.0	\$	-
	Foreman/Layout Coordinator	\$ 50.		10							10.0	\$	500.00
	Operator 1	\$ 30.		10							10.0	\$	300.00
	Operator 2	\$ 28.									0.0	\$	-
	Operator 3	\$ 26.									0.0	\$	-
	Pipe Layer/Concrete Finisher	\$ 26.		10	10						20.0	\$	520.00
	Laborer 1	\$ 24.	00								0.0	\$	-
	Laborer 2	\$ 24.	00								0.0	\$	-
	Laborer 3	\$ 24.									0.0	\$	-
									-				
	Driver 1										0.0	\$	-
	Driver 2	\$ 27.									0.0	\$	-
	Foreman/Layout Coordinator OT	\$ 75.	00								0.0	\$	-
	Operator 1 OT	\$ 45.	00								0.0	\$	-
	Operator 2 OT	\$ 42.									0.0	\$	-
	Operator 3 OT	\$ 39.									0.0	\$	
									-				-
	Pipe Layer/Concrete Finisher OT	\$ 39.							-		0.0	\$	-
	Laborer 1 OT	\$ 36.									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.									0.0	\$	-
	5.11612.01		00							LABOR		• •	1,320.00
										LABOR	CODICIAL	Ŷ	1,020.00
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		Ψ	-		-	-	-	-	-	_	0.0	Ψ	-
					•					PER DIEM	SUBTOTAL	\$	-
TERIALS		UNIT COS	т	UNIT			DESC	RIPTION			QTY		COST
	Lauren	\$ 141.		CY	Concrete	e Class A					2.0	\$	282.00
	TX Corrugators	\$ 153.		FT		ANDRAIL)					42.0	\$	6,451.20
							(ΠF)						
	RSS	\$ 80.	00	LS	Rebar (#	3)					1.0	\$	80.00
											0.0	\$	-
										MATERIAL	SUBTOTAL	\$	6,813.20
BCONTRAC	CT <u>ORS</u>	UNIT COS	T	UNIT			DESC	RIPTION			QTY		COST
												\$	-
									SUBCON	ITRACTOR	R SUBTOTAL	\$	-
IT RATE			T	UNIT			DESC	RIPTION	SUBCON	ITRACTOR		\$	- COST
IIT RATE	Smith	UNIT COS \$ 500.		UNIT EA	Remobili	zation Fee		RIPTION	SUBCON	ITRACTOR	SUBTOTAL		- COST 500.00
IIT RATE		\$ 500.	00	EA		zation Fee		RIPTION	SUBCON	ITRACTOR	QTY 1.0	\$	500.00
IIT RATE	Smith Smith		00		Remobili Traffic C			RIPTION	SUBCON	ITRACTOR	QTY	\$	500.00
IT RATE		\$ 500.	00	EA				RIPTION			QTY 1.0	\$ \$	500.00
IT RATE		\$ 500.	00	EA	Traffic C	ontrol	9	RIPTION			QTY 1.0 1.0	\$ \$	500.00 333.33 - 833.33
		\$ 500. \$ 333.	00	EA	Traffic C		9			UNIT RATE	QTY 1.0 1.0 SUBTOTAL	\$ \$ \$	500.00 333.33 - 833.33 RATE TIMES
UIPMENT		\$ 500.	00	EA	Traffic C	ontrol	9	RIPTION 5			QTY 1.0 1.0	\$ \$ \$	500.00 333.33 - 833.33
	Smith	\$ 500. \$ 333. RATE	00 33	EA WD	Traffic C	ontrol	PRKED			UNIT RATE	QTY 1.0 1.0 SUBTOTAL	\$ \$ \$ TOT	500.00 333.33 - 833.33 RATE TIMES TAL HRS.
	Smith Skid Steer	\$ 500. \$ 333. RATE \$ 46.	00 33 33 34	EA WD 10.0	Traffic C	ontrol	PRKED			UNIT RATE	QTY 1.0 1.0 SUBTOTAL TOTAL 10.0	\$ \$ \$ \$ TOT	500.00 333.33 - - 833.33 RATE TIMES TAL HRS. 463.40
	Smith Skid Steer Generator	\$ 500. \$ 333. RATE \$ 46. \$ 20.	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	ontrol	PRKED			UNIT RATE	QTY 1.0 1.0 SUBTOTAL TOTAL 10.0 10.0	\$ \$ \$ TO \$ \$	500.00 333.33 - - - 833.33 - - - - - 833.33 - - - - - - - - - - - - - - - - -
	Smith Skid Steer	\$ 500. \$ 333. RATE \$ 46. \$ 20.	00 33 33 34	EA WD 10.0	Traffic C	ontrol	PRKED			UNIT RATE	QTY 1.0 1.0 SUBTOTAL TOTAL 10.0 10.0	\$ \$ TO \$ \$	500.00 333.33 - - - 833.33 - - - - - 833.33 - - - - - - - - - - - - - - - - -
	Smith Skid Steer Generator	\$ 500. \$ 333. RATE \$ 46. \$ 20.	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	ontrol	PRKED			UNIT RATE	QTY 1.0 1.0 SUBTOTAL TOTAL 10.0 10.0 0.0	\$ \$ TO \$ \$	500.00 333.33 - 833.33 RATE TIMES TAL HRS. 463.40 200.00 75.00
	Smith Skid Steer Generator	\$ 500. \$ 333. RATE \$ 46. \$ 20.	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	ontrol	PRKED		6	UNIT RATE	QTY 1.0 1.0 ESUBTOTAL TOTAL 10.0 10.0 0.0 0.0	জ জ জ জ জ জ \$ TO জ জ জ জ জ জ	500.00 333.33 - - 833.33 RATE TIMES TAL HRS. 463.40 200.00 75.00 - -
	Smith Skid Steer Generator	\$ 500. \$ 333. RATE \$ 46. \$ 20.	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	ontrol	PRKED		6	UNIT RATE	QTY 1.0 1.0 SUBTOTAL TOTAL 10.0 10.0 0.0	জ জ জ জ জ জ \$ TO জ জ জ জ জ জ	500.00 333.33 - 833.33 RATE TIMES TAL HRS. 463.40 200.00 75.00
	Smith Skid Steer Generator Handtools	\$ 500. \$ 333. RATE \$ 46. \$ 20. \$ 7.	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	ontrol	PRKED	5	6 	UNIT RATE	QTY 1.0 1.0 5 UBTOTAL 10.0 10.0 10.0 0.0 5 UBTOTAL	\$ \$ \$ TOT \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500.00 333.33 - 833.33 RATE TIMES TAL HRS. 463.40 200.00 75.00 - - - 738.40
	Smith Skid Steer Generator	\$ 500. \$ 333. RATE \$ 46. \$ 20. \$ 7.	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	ontrol	PRKED	5	6 E LABOR S	7 7 QUIPMENT	QTY 1.0 1.0 SUBTOTAL TOTAL 10.0 10.0 0.0 0.0 SUBTOTAL	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500.00 333.33 - 833.33 RATE TIMES TAL HRS. 463.40 200.00 75.00 - - 738.40 1,320.00
	Smith Skid Steer Generator Handtools	\$ 500. \$ 333. RATE \$ 46. \$ 20. \$ 7.	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	ontrol	PRKED 4	5	6 E LABOR S LABOR	UNIT RATE	QTY 1.0 1.0 SUBTOTAL TOTAL 10.0 10.0 10.0 0.0 SUBTOTAL 55%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500.00 333.33 - - 833.33 RATE TIMES TAL HRS. 463.40 200.00 - 5.00 - - 738.40 1,320.00 726.00
	Smith Skid Steer Generator Handtools	\$ 500. \$ 333. RATE \$ 46. \$ 20. \$ 7.	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	ontrol	PRKED 4	5	6 E LABOR S LABOR	7 7 QUIPMENT	QTY 1.0 1.0 SUBTOTAL TOTAL 10.0 10.0 10.0 0.0 SUBTOTAL 55%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500.00 333.33 - - 833.33 RATE TIMES TAL HRS. 463.40 200.00 - 5.00 - - 738.40 1,320.00 726.00
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	Smith Skid Steer Generator Handtools	\$ 500. \$ 333. RATE \$ 46. \$ 20. \$ 7.	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	ontrol	PRKED 4	5	6 E LABOR S LABOFIORIT & O	UNIT RATE	QTY 1.0 1.0 1.0 1.0 1.0 10.0 10.0 10.0 0.0	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500.00 333.33 - 833.33 RATE TIMES TAL HRS. 463.40 200.00 - 75.00 - 738.40 1,320.00 726.00
	Smith Skid Steer Generator Handtools	\$ 500. \$ 333. RATE \$ 46. \$ 20. \$ 7.	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	ontrol	PRKED 4	5 ABOR PR	6 E LABOR S LABOR S LABOR S	UNIT RATE	QTY 1.0 1.0 5 SUBTOTAL 10.0 10.0 10.0 0.0 0.0 5 SUBTOTAL 55% 15%	\$ \$ \$ TO \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500.00 333.33 - - 833.33 RATE TIMES TAL HRS. 463.40 200.00 - 75.00 - - 738.40 1,320.00 726.00 198.00
	Smith Skid Steer Generator Handtools	\$ 500. \$ 333. RATE \$ 46. \$ 20. \$ 7.	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	OURS WO	9 DRKED 4 	5 ABOR PR	6 E LABOR S LABOF IOFIT & O	UNIT RATE	QTY 1.0 1.0 2.50BTOTAL TOTAL 10.0 10.0 0.0 0.0 10.0 55% 15%	\$ \$ \$ TO \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500.00 333.33 - - 833.33 rAL HRS. 463.40 200.00 75.00 - - - 738.40 1,320.00 726.00 198.00 - 6,813.20
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	Smith Skid Steer Generator Handtools	\$ 500; \$ 333. RATE \$ 46; \$ 20; \$ 7;	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	OURS WO	DRKED 4 L	5 ABOR PR MA LS PROF	6 E LABOR S LABORS COFIT & O STERIAL S	UNIT RATE	QTY 1.0 1.0 SUBTOTAL TOTAL 10.0 10.0 0.0 0.0 SUBTOTAL 55% 15%	\$ \$ \$ TO \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500.00 333.33 - - 833.33 FALE TIMES FAL HRS. 463.40 200.00 - - - - 738.40 1,320.00 726.00 198.00 - 6,813.20 1,021.96
	Smith Skid Steer Generator Handtools	\$ 500; \$ 333. RATE \$ 46; \$ 20; \$ 7;	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	OURS WC	PRKED 4 4 L/	5 ABOR PR MA LS PROF B CONTR	6 E LABOR S LABOF IOFIT & O TERIAL S IT AND O ACTOR S	UNIT RATE	QTY 1.0 1.0 5 SUBTOTAL 10.0 10.0 10.0 0.0 0.0 55% 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500.00 333.33 - - 833.33 RATE TIMES TAL HRS. 463.40 200.00 75.00 - - - 738.40 1,320.00 726.00 198.00 - - 6,813.20 1,021.96
	Smith Skid Steer Generator Handtools	\$ 500; \$ 333. RATE \$ 46; \$ 20; \$ 7;	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	OURS WC	PRKED 4 4 L/	5 ABOR PR MA LS PROF B CONTR	6 E LABOR S LABOF IOFIT & O TERIAL S IT AND O ACTOR S	UNIT RATE	QTY 1.0 1.0 5 SUBTOTAL 10.0 10.0 10.0 0.0 0.0 55% 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500.00 333.33 - 833.33 RATE TIMES TAL HRS. 463.40 200.00 - 75.00 - 738.40 1,320.00 726.00 198.00 198.00 - 6,813.20 1,021.98
	Smith Skid Steer Generator Handtools	\$ 500; \$ 333. RATE \$ 46; \$ 20; \$ 7;	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	OURS WC	PRKED 4 4 L/	5 ABOR PR MA LS PROF B CONTR	6 E LABOR S LABOFIT & O OFIT & O STERIAL S IT AND O SACTOR S //ERHEAD	UNIT RATE	QTY 1.0 1.0 SUBTOTAL TOTAL 10.0 10.0 10.0 0.0 SUBTOTAL 55% 15% 15%	% % % %	500.00 333.33 - - 833.33 FATE TIMES TAL HRS. 463.40 200.00 75.00 - - 738.40 1,320.00 726.00 198.00 - 6,813.20 1,021.98 - -
	Smith Skid Steer Generator Handtools	\$ 500; \$ 333. RATE \$ 46; \$ 20; \$ 7;	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	OURS WC	PRKED 4 4 L/	5 ABOR PR MA LS PROF B CONTR	6 E LABOR S LABOFIT & O OFIT & O STERIAL S IT AND O SACTOR S //ERHEAD	UNIT RATE	QTY 1.0 1.0 SUBTOTAL TOTAL 10.0 10.0 10.0 0.0 SUBTOTAL 55% 15% 15%	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500.00 333.33 - - 833.33 FATE TIMES TAL HRS. 463.40 200.00 75.00 - - - 738.40 1,320.00 726.00 198.00 - 6,813.20 1,021.96 - -
	Smith Skid Steer Generator Handtools	\$ 500; \$ 333. RATE \$ 46; \$ 20; \$ 7;	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	OURS WC	PRKED 4 4 L/	5 ABOR PR MA LS PROF B CONTR	6 E LABOR S LABOFIT & O OFIT & O STERIAL S IT AND O SACTOR S //ERHEAD	UNIT RATE	QTY 1.0 1.0 SUBTOTAL TOTAL 10.0 10.0 10.0 0.0 SUBTOTAL 55% 15% 15%	% % % %	500.00 333.33 - - 833.33 FATE TIMES TAL HRS. 463.40 200.00 75.00 - - - 738.40 1,320.00 726.00 198.00 - 6,813.20 1,021.96 - -
	Smith Skid Steer Generator Handtools	\$ 500; \$ 333. RATE \$ 46; \$ 20; \$ 7;	00 33 33 34 00	EA WD 10.0 10.0	Traffic C	OURS WC	PRKED 4 4 L/	5 ABOR PR MA LS PROF B CONTR	6 E LABOR S LABOFIOFIT & O STERIAL S IT AND O ACTOR S /ERHEAD	UNIT RATE	QTY 1.0 1.0 SUBTOTAL TOTAL 10.0 10.0 10.0 0.0 0.0 SUBTOTAL 55% 15% 55%	\$ \$ \$ T \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	500.00 333.33 - - 833.33 RATE TIMES TAL HRS. 463.40 200.00 75.00 - - 738.40 1,320.00 726.00 198.00 - 6,813.20 1,021.96 - - 833.33
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SUBMITTAL 100%











Quote #86589 Version #3 Original Date: 04/08/2024 Revised Date: 04/18/2024

Submitted To:	M A Smith Contracting Co, Inc.	Project Name:	TX_Williamson_na_na
Address:	15308 GINGER ST,	Project No:	CR 138 Right Turn Lane
	Austin, TX	Control No:	CR 138 Right Turn Lane
	78728-0000	Location:	CR 138 Right Turn LAne
Phone No:	(512) 990-7640	Working Days:	0
Letting Date:	04/08/2024	Engineer:	
Phone No:		-	

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

Item No	Item Description	Qty	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.

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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	3/5/202	24		Lauren Concrete				
		:#REV QUOTE EXPIRATION		,	4/4/202	А		2001 Picadilly Dr, Round Rock, 1 Office & Dispatch: 512-389-3				
	,	SALES REP:					9-2554	www.laurenconcrete.co				
								ANY INFORMATION				
		COMPANY NAME:	SMITH	CONTRA	CTING	CO., INC.		ATTENTION: Chris Lopez PHONE:				
								EMAIL: chrislopez@sccitx.com				
								CT INFORMATION				
		PROJECT NAME: ADDRESS:				e at SH 13 amson C						
						AGG						
		MIX NUMBER	PSI	SLUMP	W/C	SIZE	ASH %	USE		PRICE	UOM	
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	2	HETXDA23	3000	5	0.58	1"	0	Straight Cement - TXDOT Class A	\$	147.00	/yd3	_
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	4	TXDC23.3	3600	4.5	0.45	1"	30	TXDOT Class C	\$	151.50	/yd3	_
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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
DATE:	APPROVED By Christopher R. Lopez at 12:10 pm, Mar 07, 2024
,	



PROJECT:	CR 138 Right Turn Lane at SH 130
DATE:	4/18/2024
DESCRIPTION	

DESCRIPTION:

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

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LABOR		RATE	1	2	3	4	5	6	7	TOTAL	RATE * TO	AL HOURS
LADOR	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	\$	-
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TOTAL \$ 8,502.45



PROJECT: DATE: DESCRIPTION: CR 138 Right Turn Lane at SH 130 4/18/2024

This proposal is for the removal & replacement of a Lane Ends Merge Right, sign only. Proposed cost is \$59.42/SF.

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

This proposal is for the addition of 2ea. Stop Signs. Proposed cost for additional Stop Signs is \$872.69/EA

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LABOR		RATE		1	2	3	4	5	6	7	TOTAL	RATE	E * TOTAL HOURS
2.201	Project Manager	\$ 75	5.00								0.0	\$	-
	Superintendent		5.00								0.0	\$	-
	Foreman/Layout Coordinator			0.5							0.5	\$	25.00
	Operator 1		0.00								0.0	\$	-
	Operator 2		3.00								0.0	\$	-
	Operator 3		6.00								0.0	\$	-
	Pipe Layer/Concrete Finisher		6.00								0.0	\$	-
	Laborer 1		1.00								0.0	\$	-
	Laborer 2		1.00								0.0	\$	-
	Laborer 3		1.00								0.0	\$	
	Driver 1		7.00								0.0	\$	-
	Driver 2		7.00								0.0	\$	
	Foreman/Layout Coordinator OT		5.00								0.0	\$	-
	Operator 1 OT		5.00								0.0	\$	-
	Operator 2 OT		2.00								0.0	\$	-
	Operator 3 OT		9.00								0.0	\$	-
	Pipe Layer/Concrete Finisher OT		9.00								0.0	\$	-
	Laborer 1 OT		5.00								0.0	\$	
	Laborer 2 OT		6.00								0.0	\$	
	Laborer 3 OT										0.0	\$ \$	
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PROJECT: DATE: DESCRIPTION: CR 138 Right Turn Lane at SH 130 4/5/2024

This proposal is for the addition of 2ea. guide signs to be installed on the frontage road of SH130. Proposed cost for installation of each guide sign is \$2,073.67/EA.

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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

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

Bid Date:April 2, 2024Project:CR 138 Right Turn LaneFor: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	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:

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:



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

Proposal #: CO 0424-2226

Bid Date: April 18, 2024

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
I	(Caps, Crosses)		4.00	\$10.50	\$7.00.00
	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.

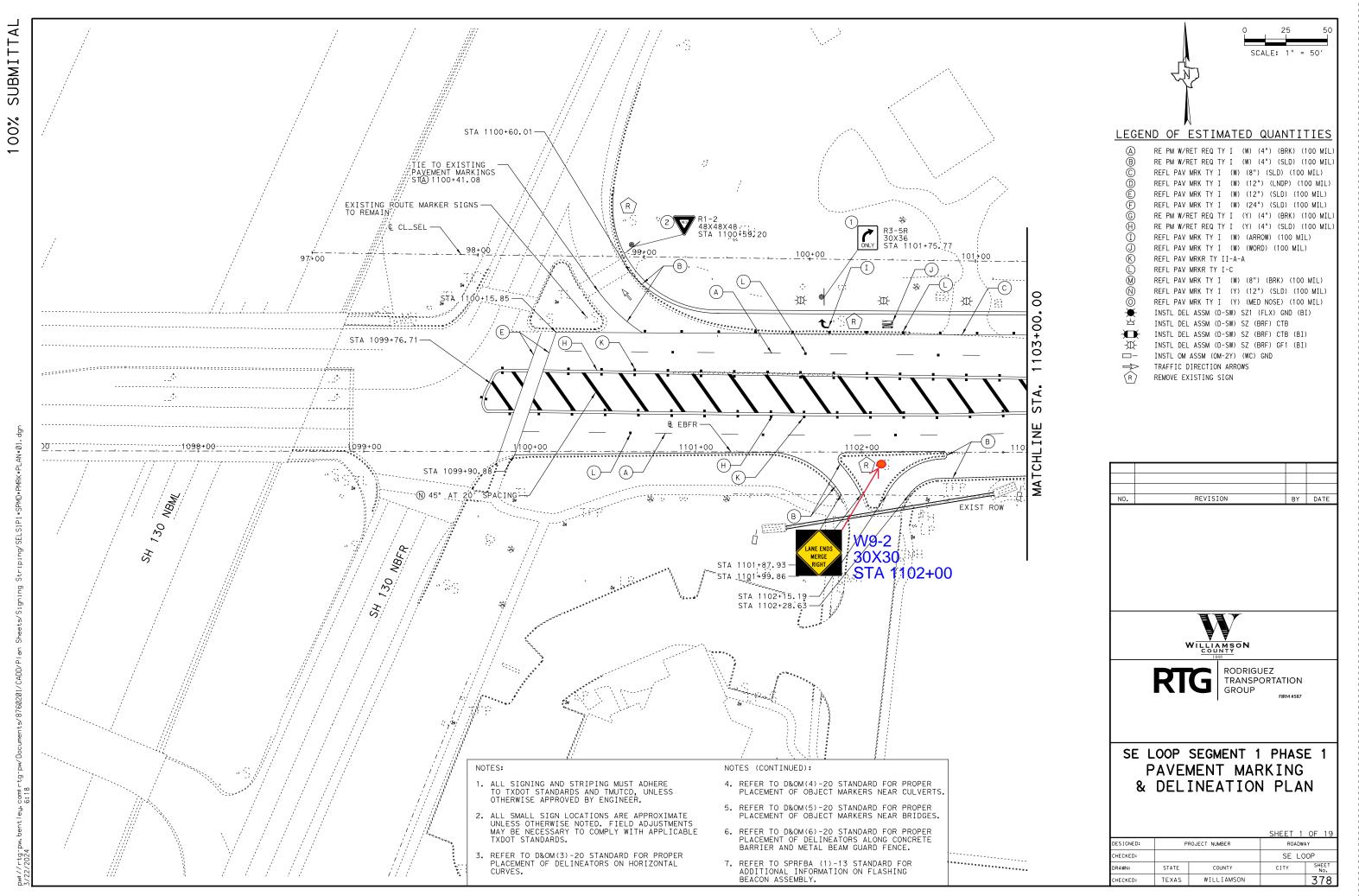
Pricing is good for thirty (30) days.

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

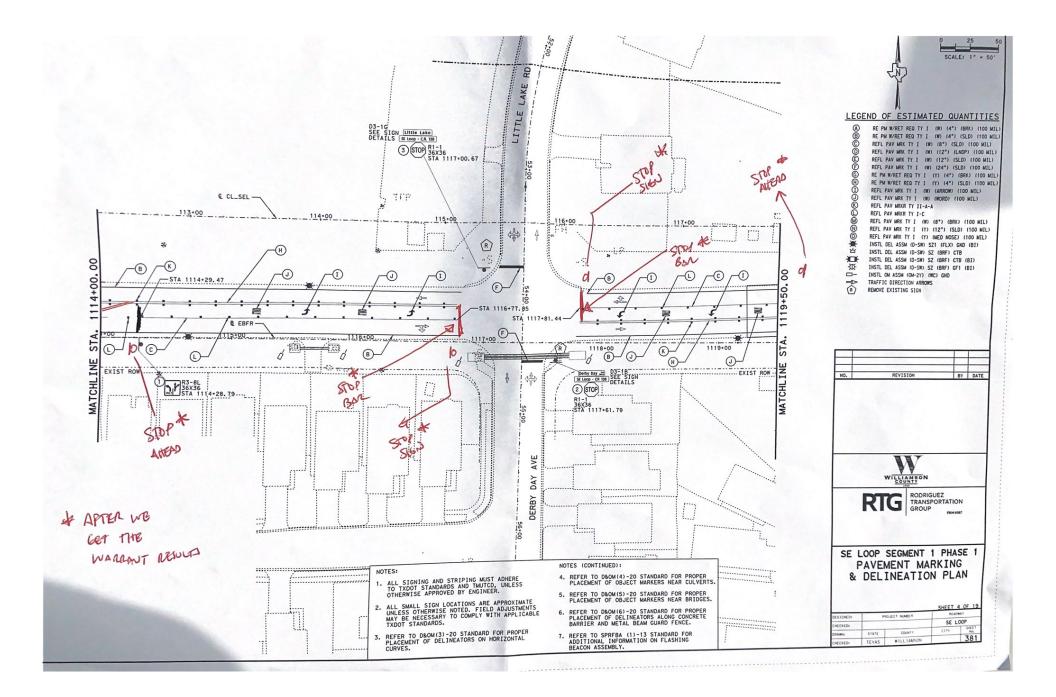
Respectfully submitted by Carson Ikels, Estimator

Accepted by:

Date:









PROPOSED S4 REMOVE AND REPLACE EXISTING SIGN



D1-2 6in LT-RT;

1.5" Radius, 0.8" Border, White on Green; Standard Arrow Custom 10.0" X 6.1" 180°; "East", ClearviewHwy-3-W; "Wilco", ClearviewHwy-3-W; "Hwy", ClearviewHwy-3-W;

1.5" Radius, 0.8" Border, White on Green; "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.

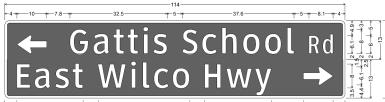


D1-2 8in LT-RT;

1.9" Radius, 0.8" Border, White on Green; Standard Arrow Custom 12.0" X 7.1" 180"; "East Wilco Hwy", ClearviewHwy-3-W

1.9" Radius, 0.8" Border, White on Green; "Gattis School", ClearviewHwy-3-W; "Rd", ClearviewHwy-2-W; Standard Arrow Cu

PROPOSED S6 REMOVE AND REPLACE EXISTING SIGN



+ 10.7 + 10 + 4 k-4---_____5____ -22.5-D3-1G(5) 8in (2 Lines);

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

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.

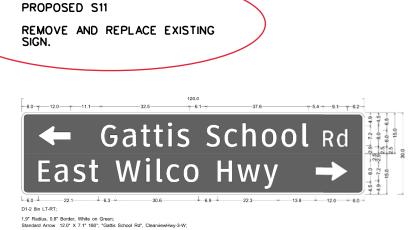


D1-2 6in UP-UP;

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

Standard Arrow Custom 9.0" X 6.1" 90°: "East Wilco Hwy". ClearviewHwy-3-W: 1.5" Radius, 0.8" Border, White on Green;

Standard Arrow Custom 9.0" X 6.1" 90°; "Gattis School", ClearviewHwy-3-W; "Rd", ClearviewHwy-2-W;



1.9" Radius, 0.8" Border, White on Green; "East Wilco Hwy", ClearviewHwy-3-W; Standard Arrow 12.0" X 7.1" 0°;

NOTES:

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

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COLUMN TO A	OF TEL	J.	S 04/01	2024
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8	INTE	The HNTS C Infrastructure Film Registra	ndon ompenies Solutions don Number 420	
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					(TYPE A)	S SM R	D SGN	NASSM TY X		<u>xx</u> (x- <u>xxxx</u>)	BRIDGE MOUNT CLEARANCE	
PLAN HEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS		FRP = Fibergloss TWT = Thin-Wall 10BWG = 10 BWG	POSTS	ANCHOR TYPE UA-Universal Conc UB-Universal Bolt SA=Slipbase-Conc SB=Slipbase-Bolt WS-Wedge Steel WP-Wedge Plastic		TING DESIGNATION 1EXT or 2EXT = # of Ext BM = Extruded Wind Beam WC = 1,12 #/ft Wing Channel EXAL= Extruded Alum Sign Panels	SIGNS (See Note 2) TY - TYPE TY N TY S	
	S4	D1-2	LT Arrow - East Wilco Hwy	114 X 25	×			INSTALL OF	EXISTING M	AST ARM		
			Gattis School Rd - RT Arrow									ALUMINUM SIGN BLANKS THICKNESS
			LT Arrow - East Wilco Hwy		\square							Square Feet Minimum Thickne: Less than 7,5 0,080"
	S5	D1-2	Gattis School Rd - RT Arrow	126 X 30	X		1	SA NEW SIGN / NE 240' UPST	U W LOCATION: REAM OF EXI	BM 30.50291, -97.58062 TING LOCATION		7.5 to 15 0.100" Greater than 15 0.125"
			LT Arrow - Gattis School Rd									
	S6	D3-1	East Wilco Hwy - RT Arrow	114 X 26				INSTALL OF	EXISTING N	AST ARM		The Standard Highway Sign Designs for Texas (SHSD) can be found at
	S7	D1-2	Thru Arrow - East Wilco Hwy	96 X 24	X	580	1	SA	U	BM		the following website. http://www.txdot.gov/
			Thru Arrow - Gattis School Rd					NEW SIGN / NEY 750' UPST	REAM OF EXI	80.51522, -97.57637 TING LOCATION		NOTE:
	S11	D1-2	LT Arrow - Gattis School Rd East Wilco Hwy - RT Arrow	126 X 30	X		1	SA INSTALL A	U T EXISTING L	BM DCATION		 I. Sign supports shall be located as stored on the plans, except that the Engine may shift the sign supports, within
												design guidelines, where necessary secure a more desirable location or avoid conflict with utilities. Unles otherwise shown on the plans, the Contractor shall stake and the Engli will verify all sign support locatio
												 For installation of bridge mount closing signs, see Bridge Mounted Clearance Assembly (BMCS)Standard Sheet.
												3. For Sign Support Descriptive Codes, Sign Mounting Details Small Roadsid Signs General Notes & Details SMD(G
												-
												Texas Department of Transportation
												SUMMARY OF SMALL SIGNS
												soss
				-	++							FILE: SUMS16.dgn DN: TXDOT CK:TXDOT DW: TXDO © TXDOT May 1987 CONT SECT JOB REVISIONS JON
					++							4-16 DIST COUNTY



CR 138 Right Turn Lane at SH 130 4/8/2024

PROJECT: DATE: DESCRIPTION:

This proposal is for the addition of requested Police Officer Presence for three shifts of night work. Proposed costs for additional police presence is \$4.565.45/LS.

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		RAT	F	1	2	3	RS WOR	5	6	7	TOTAL	RATE	* TOTAL HOURS
LABOR			-	•	-	Ŭ	-	ů	v	'	TOTAL		
	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 Operator 3		28.00 26.00								0.0	\$ \$	-
	Pipe Layer/Concrete Finisher		26.00								0.0	э \$	-
	Laborer 1		24.00								0.0	\$	-
	Laborer 2		24.00								0.0	\$	-
	Laborer 3		24.00								0.0	\$	-
	Driver 1	\$ 3	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 Laborer 2 OT		<u>36.00</u> 36.00		+						0.0	\$ \$	-
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	Driver 2 OT		40.50								0.0	\$	-
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CODCONTINUE					Two offic	ers for a d			ool Rd A	And Toll Rd.		\$	4,305.00
	Texas Highway Cops, LLC.	\$	70.00	HR	130						61.5	Ŷ	1,000.00
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								MA	TERIAL	SUBTOTAL		\$	-
							MATERIA			OVERHEAD	15%		-
										SUBTOTAL		\$	4,305.00
						G	C PROFI	T AND O	VERHEA	D ON SUBS	5%	\$	215.25

UNIT RATE \$ -EQUIPMENT EQUIPMENT MARKUP \$ 5%\$ -SUBTOTAL \$ 4,520.25 BONDING COST 1% \$ 45.20 **4,565.45 4,565.45** /LS

TOTAL \$ \$ INVOICE

Item 999-WC02

Bill To

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

	\mathbf{i}	

Texas Highway Cops LLC.

PO Box #264 Devine, TX 78016 Phone: (210) 518-9707 Email: oreyes@texashighwaycops.com Web: www.texashighwaycops.com

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

Description	Rate	Quantity	Total
(Smith Contracting)Police Officers Total Hours Worked 04/02/24 Two officers for a closure - Gattis School Rd. And Toll Rd. 130 (20 H	\$70.00 Irs)	61.5	\$4,305.00
04/03/24 Two officers for a closure - Gattis School Rd. And Toll Rd. (21 Hrs)			
04/04/24 Two officers for a closure - Gattis School Rd. And Toll Rd. (20.5 Hrs 	5)		

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

Smith Contracting Inc.



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

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RATE * TOTA HOUR		TOTAL	7	6	5	4	3	2	1	RATE	
-	\$	0.0								\$ 75.00	Project Manager
-	\$	0.0								\$ 55.00	Superintendent
150.00	\$	3.0							3	\$ 50.00	Foreman/Layout Coordinator
-	\$	0.0								\$ 30.00	Operator 1
-	\$	0.0								\$ 28.00	Operator 2
-	\$									\$ 26.00	
		0.0									Operator 3
	\$	0.0								\$ 26.00	Pipe Layer/Concrete Finisher
-	\$	0.0								\$ 24.00	Laborer 1
-	\$	0.0								\$ 24.00	Laborer 2
-	\$	0.0								\$ 24.00	Laborer 3
-	\$	0.0								\$ 27.00	Driver 1
-	\$	0.0								\$ 27.00	Driver 2
-	\$	0.0								\$ 75.00	Foreman/Layout Coordinator OT
-	\$	0.0								\$ 45.00	Operator 1 OT
-	\$	0.0								\$ 42.00	Operator 2 OT
-	\$	0.0								\$ 39.00	Operator 3 OT
-	\$	0.0								\$ 39.00	Pipe Layer/Concrete Finisher OT
-	\$										
		0.0									Laborer 1 OT
-	\$	0.0								\$ 36.00	Laborer 2 OT
-	\$	0.0								\$ 36.00	Laborer 3 OT
-	\$	0.0								\$ 40.50	Driver 1 OT
	\$	0.0								\$ 40.50	Driver 2 OT
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COST 333.33	\$ \$	QTY 1.0		SUBCO	RIPTION	DESC	ontrol	Traffic C			SMITH
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COST 333.33 333.33 AL HRS. AL HRS. - - - - - - 4,200.00 210.00 333.33 - - 4,998.33	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	QTY 1.0 SUBTOTAL 0.0 0.0 0.0 SUBTOTAL 55% 15% 5%	UNIT RATE	6 LABOR LABC ROFIT & ATERIAL FIT AND RACTOR VERHEA	5 ABOR P M ALS PRC JB CONT IT AND C	ORKED 4 MATERI	IOURS W		WD	\$ 333.33	
COST 333.33 333.33 RATE TIMES AL HRS. - - - 150.00 82.50 22.50 - - - 4,200.00 210.00 333.33 - -	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	QTY 1.0 SUBTOTAL 0.0 0.0 0.0 SUBTOTAL 55% 15% 5%	UNIT RATE 7 EQUIPMENT SUBTOTAL DR BURDEN DVERHEAD DVERHEAD SUBTOTAL DVERHEAD SUBTOTAL D ON SUBS UNIT RATE CUIPMENT IT MARKUP	6 LABOR LABC ROFIT & ATERIAL FIT AND RACTOR VERHEA	5 ABOR P M ALS PRC JB CONT IT AND C	ORKED 4 MATERI	IOURS W		WD	\$ 333.33	
COST 333.33 333.33 AL HRS. AL HRS. - - - - - - 4,200.00 210.00 333.33 - - 4,998.33	\$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$ \$	QTY 1.0 SUBTOTAL 0.0 0.0 0.0 SUBTOTAL 55% 15% 5% 5% 1%	UNIT RATE	6 LABOR LABC ROFIT & ATERIAL FIT AND RACTOR VERHEA	5 ABOR P M ALS PRC JB CONT IT AND C	ORKED 4 MATERI	IOURS W		WD	\$ 333.33	

Item 690-6029



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

April 8, 2024

Project Name:INSTALL MASTARM SIGNSJob Location:GATTIS SCHOOL ROADOwner:WILLIAMSON COUNTY

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

2.0	EA	\$ 2,100.00	\$ 4,200.00
		¢	4,200.00
	2.0 TOTAL		

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.

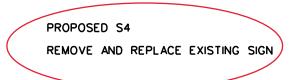
If additional information is needed, please contact me at (512) 258-1025.

Sincerely,

Pete Smith

Pete Smith Vice President / Estimator







D1-2 6in LT-RT;

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

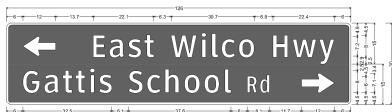
Standard Arrow Custom 10.0" X 6.1" 180°; "East", ClearviewHwy-3-W; "Wilco", ClearviewHwy-3-W; "Hwy", ClearviewHwy-3-W;

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

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

PROPOSED S5

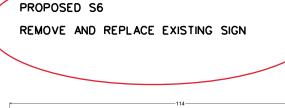
REMOVE AND REPLACE EXISTING SIGN. NEW SIGN LOCATION - SEE SUMMARY OF SMALL SIGNS.



D1-2 8in LT-RT;

1.9" Radius, 0.8" Border, White on Green; Standard Arrow Custom 12.0" X 7.1" 180"; "East Wilco Hwy", ClearviewHwy-3-W

1.9" Radius, 0.8" Border, White on Green; "Gattis School", ClearviewHwy-3-W; "Rd", ClearviewHwy-2-W; Standard Arrow Cu





k-4----22.5-D3-1G(5) 8in (2 Lines);

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

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.



D1-2 6in UP-UP;

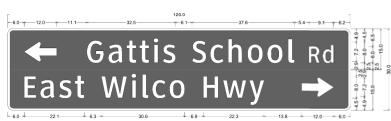
1.5" Radius, 0.8" Border, White on Green;

Standard Arrow Custom 9.0" X 6.1" 90°: "East Wilco Hwy". ClearviewHwy-3-W: 1.5" Radius, 0.8" Border, White on Green;

Standard Arrow Custom 9.0" X 6.1" 90°; "Gattis School", ClearviewHwy-3-W; "Rd", ClearviewHwy-2-W;

PROPOSED S11

REMOVE AND REPLACE EXISTING SIGN.



D1-2 8in LT-RT; 1.9" Radius, 0.8" Border, White on Green; Standard Arrow 12.0" X 7.1" 180°; "Gattis School Rd", ClearviewHwy-3-W; 1.9" Radius, 0.8" Border, White on Green; "East Wilco Hwy", ClearviewHwy-3-W; Standard Arrow 12.0" X 7.1" 0°;

NOTES:

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

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DESIGNED:	PROJECT	NUMBER		DWAY
CHECKED:	IFB T			WILCO HWY)
DRAWN:	STATE	COUNTY	CITY	SHEET NUMBER

					(TYPE A)	S SM R	D SGN	NASSM TY X		<u>xx</u> (x- <u>xxxx</u>)	BRIDGE MOUNT CLEARANCE	
PLAN HEET NO.	SIGN NO.	SIGN NOMENCLATURE	SIGN	DIMENSIONS		FRP = Fibergloss TWT = Thin-Wall 10BWG = 10 BWG	POSTS	ANCHOR TYPE UA-Universal Conc UB-Universal Bolt SA=Slipbase-Conc SB=Slipbase-Bolt WS-Wedge Steel WP-Wedge Plastic		TING DESIGNATION 1EXT or 2EXT = # of Ext BM = Extruded Wind Beam WC = 1,12 #/ft Wing Channel EXAL= Extruded Alum Sign Panels	SIGNS (See Note 2) TY - TYPE TY N TY S	
	S4	D1-2	LT Arrow - East Wilco Hwy	114 X 25	×			INSTALL OF	EXISTING M	AST ARM		
			Gattis School Rd - RT Arrow									ALUMINUM SIGN BLANKS THICKNESS
			LT Arrow - East Wilco Hwy		\square							Square Feet Minimum Thickne: Less than 7,5 0,080"
	S5	D1-2	Gattis School Rd - RT Arrow	126 X 30	X		1	SA NEW SIGN / NE 240' UPST	U W LOCATION: REAM OF EXI	BM 30.50291, -97.58062 TING LOCATION		7.5 to 15 0.100" Greater than 15 0.125"
			LT Arrow - Gattis School Rd									
	S6	D3-1	East Wilco Hwy - RT Arrow	114 X 26				INSTALL OF	EXISTING N	AST ARM		The Standard Highway Sign Designs for Texas (SHSD) can be found at
	S7	D1-2	Thru Arrow - East Wilco Hwy	96 X 24	X	580	1	SA	U	BM		the following website. http://www.txdot.gov/
			Thru Arrow - Gattis School Rd					NEW SIGN / NEY 750' UPST	REAM OF EXI	80.51522, -97.57637 TING LOCATION		NOTE:
	S11	D1-2	LT Arrow - Gattis School Rd East Wilco Hwy - RT Arrow	126 X 30	X		1	SA INSTALL A	U T EXISTING L	BM DCATION		 I. Sign supports shall be located as stored on the plans, except that the Engine may shift the sign supports, within
												design guidelines, where necessary secure a more desirable location or avoid conflict with utilities. Unles otherwise shown on the plans, the Contractor shall stake and the Engli will verify all sign support locatio
												 For installation of bridge mount closing signs, see Bridge Mounted Clearance Assembly (BMCS)Standard Sheet.
												3. For Sign Support Descriptive Codes, Sign Mounting Details Small Roadsid Signs General Notes & Details SMD(G
												-
												Texas Department of Transportation
												SUMMARY OF SMALL SIGNS
												soss
					++							FILE: SUMS16.dgn DN: TXDOT CK:TXDOT DW: TXDO © TXDOT May 1987 CONT SECT JOB REVISIONS JON
					++							4-16 DIST COUNTY

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			



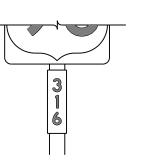




TYPICAL EXAMPLES

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			











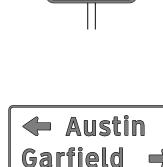




TYPICAL EXAMPLES







GENERAL NOTES

plans.

or F).

DISCLAIMER: The use of this standard is governed by the "Texas Engineering Practice Act". No warranty of any Kind is made by TXDOT for any purpose wharsoever. TXDOT assumes no responsibility for the conversion of this standard to other formats or for incorrect results or damages resulting fram its use.

1. 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

В	CV-1W
С	CV-2W
D	CV-3W
E	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

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.

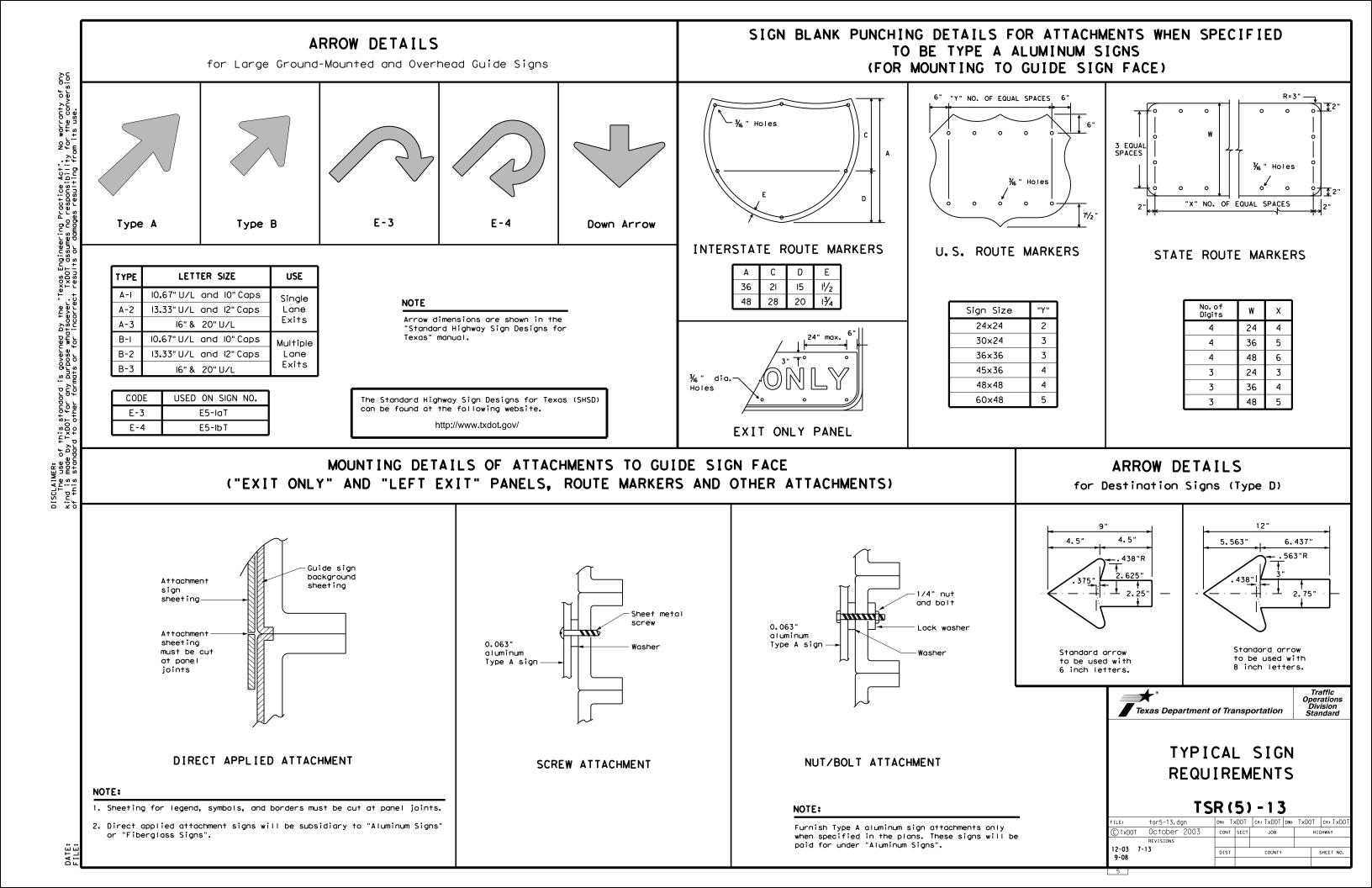
ALUMINUM SIGN BLANKS D	MS-7110
SIGN FACE MATERIALS D	MS-8300

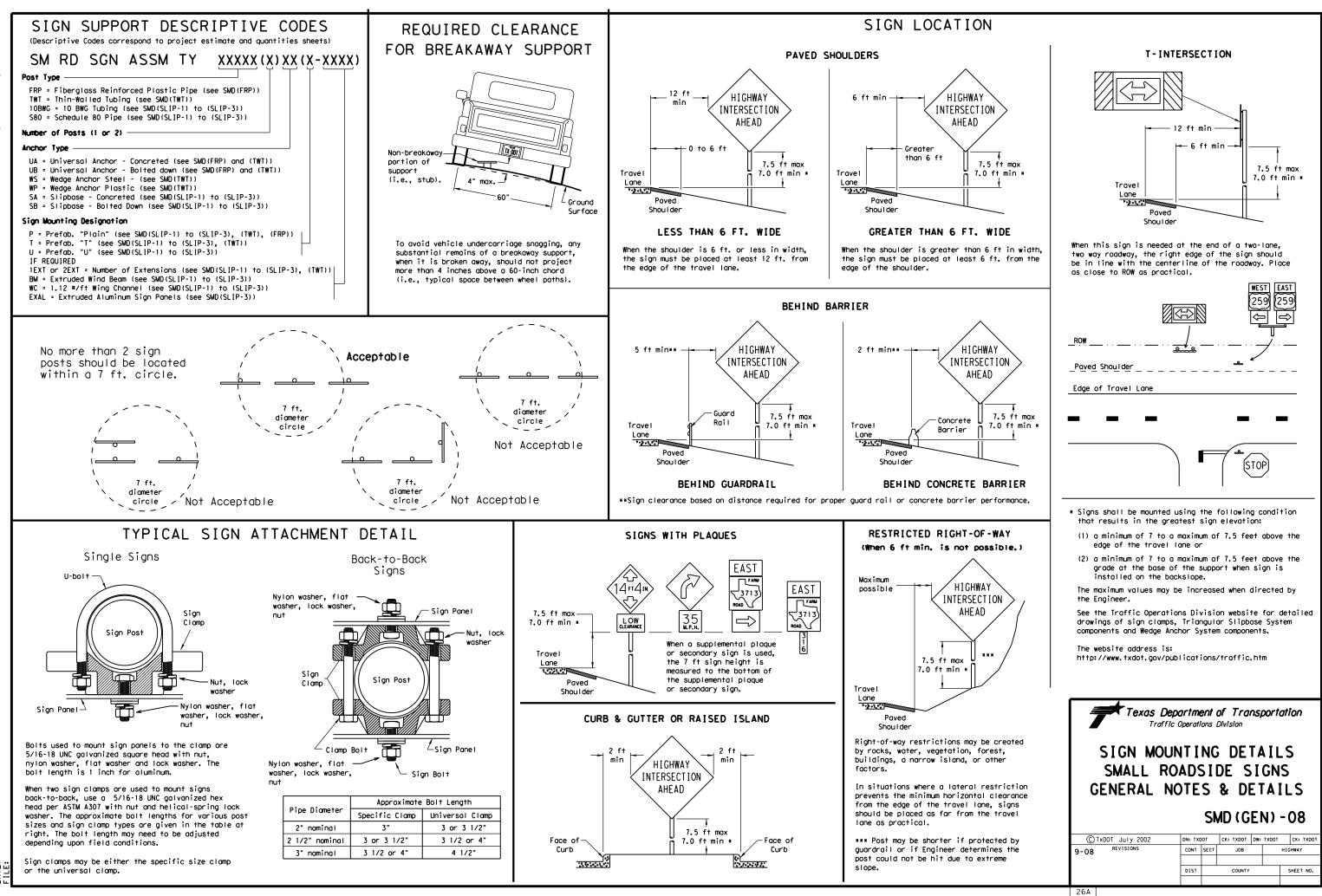
ALUMINUM SIGN	BLANKS THICKNESS
Square Feet	Minimum Thickness
Less than 7.5	0.080
7.5 to 15	0.100
Greater than 15	0.125

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

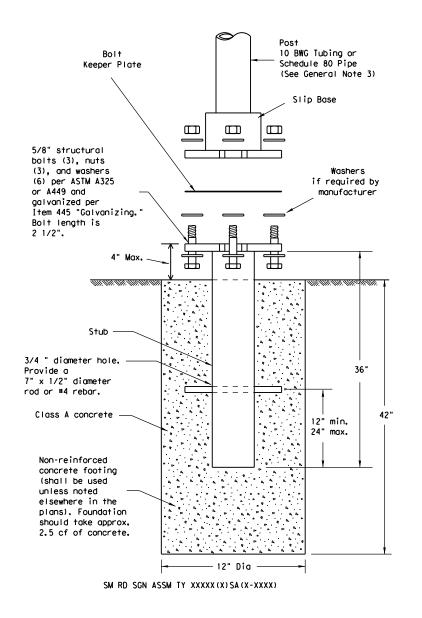
http://www.txdot.gov/

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12-03 7-13	DIST		COUNTY			SHEET NO.
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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.

GENERAL NOTES:

- 10 BWG Tubing (2.875" outside diameter)
- 0.134" nominal wall thickness
- - 55,000 PSI minimum yield strength
 - 70,000 PSI minimum tensile strength 20% minimum elongation in 2"

- Schedule 80 Pipe (2.875" outside diameter) 0.276" nominal wall thickness
- Steel tubing per ASTM A500 Gr C
- 46,000 PSI minimum yield strength 62,000 PSI minimum tensile strength
- 21% minimum elongation in 2"
- Galvanization per ASTM A123

ASSEMBLY PROCEDURE

Foundation

- direction.

Support

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

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 normal-

minimum embedment, shall have a

minimum allowable tension and shear

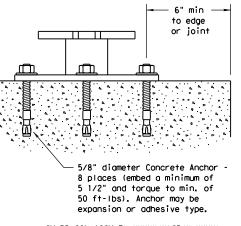
of 3900 and 3100 psi, respectively.

weight concrete with a 5 1/2"

stud bolt shall have a minimum

- straight.
- clearances based on sign types.

CONCRETE ANCHOR



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

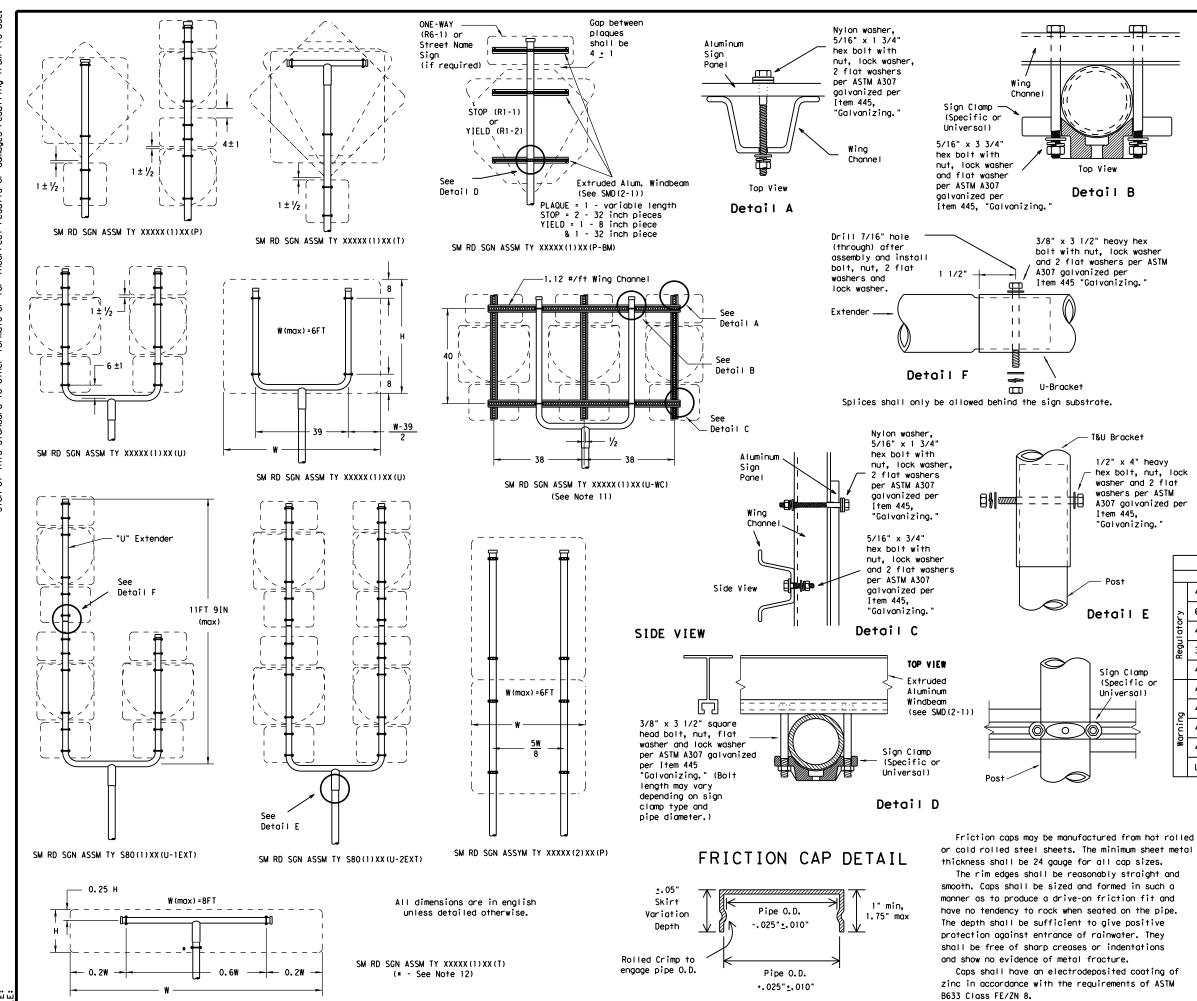
1. Slip base shall be permanently marked to indicate manufacturer. Method, design, and location of marking are subject to approval of the TxDOT Traffic Standards Engineer. Material used as post with this system shall conform to the following specifications: Seamless or electric-resistance welded steel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

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

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 lane) 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

Texas Depu Traffic (nsļ	porta	tion
SIGN MOUN SMALL ROA	-	•••				-
TRIANGULAR	SL I	[P]	BASE		SYS	STEM
S	SMD) (5	SLIP	- 1)-	08
CTxDOT July 2002	DN: TX	тот	CK: TXDOT	DW:	TXDOT	CK: TXDOT
9-08 REVISIONS	CONT	SECT	JOB		н	IGHWAY
	DIST		COUNTY			SHEET NO.
26B						



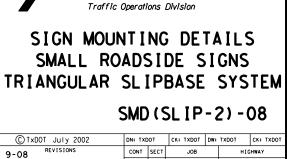
GENERAL NOTES:

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

2. 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.

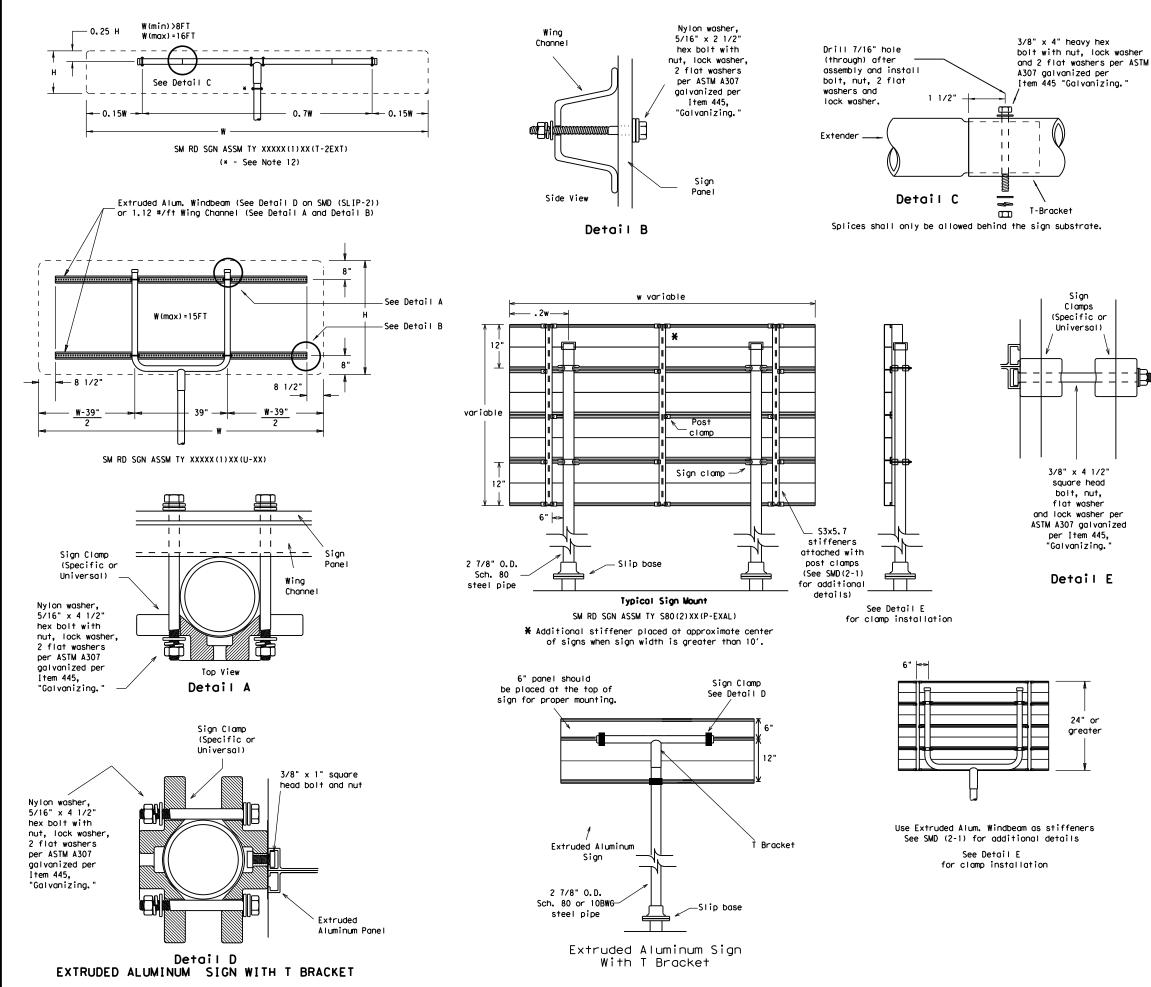
- 3. Sign supports shall not be spliced except where shown. Sign support posts shall not be spliced.
- Aluminum sign blanks shall conform to Departmental Material Specifications DMS-7110 and shall have the following minimum thicknesses: 0.080 for signs less than 7.5 sq. ft., 0.100 for signs 7.5 to 15 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. 8. 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. 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.

		REQUIRED SUPPORT	
		SIGN DESCRIPTION	SUPPORT
		48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
E	2	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	latory	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	Regul	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
p		48x60-inch signs	TY \$80(1)XX(T)
or)		48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
	ō	48x60-inch signs	TY \$80(1)XX(T)
	Warning	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
	l ¥	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)



Texas Department of Transportation

C) IXDOI July 2002	DN: TXC	от	CK: TXDOT	DM:	TXDOT	CK: TXDOT
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	DIST		COUNTY			SHEET NO.



GENERAL NOTES:

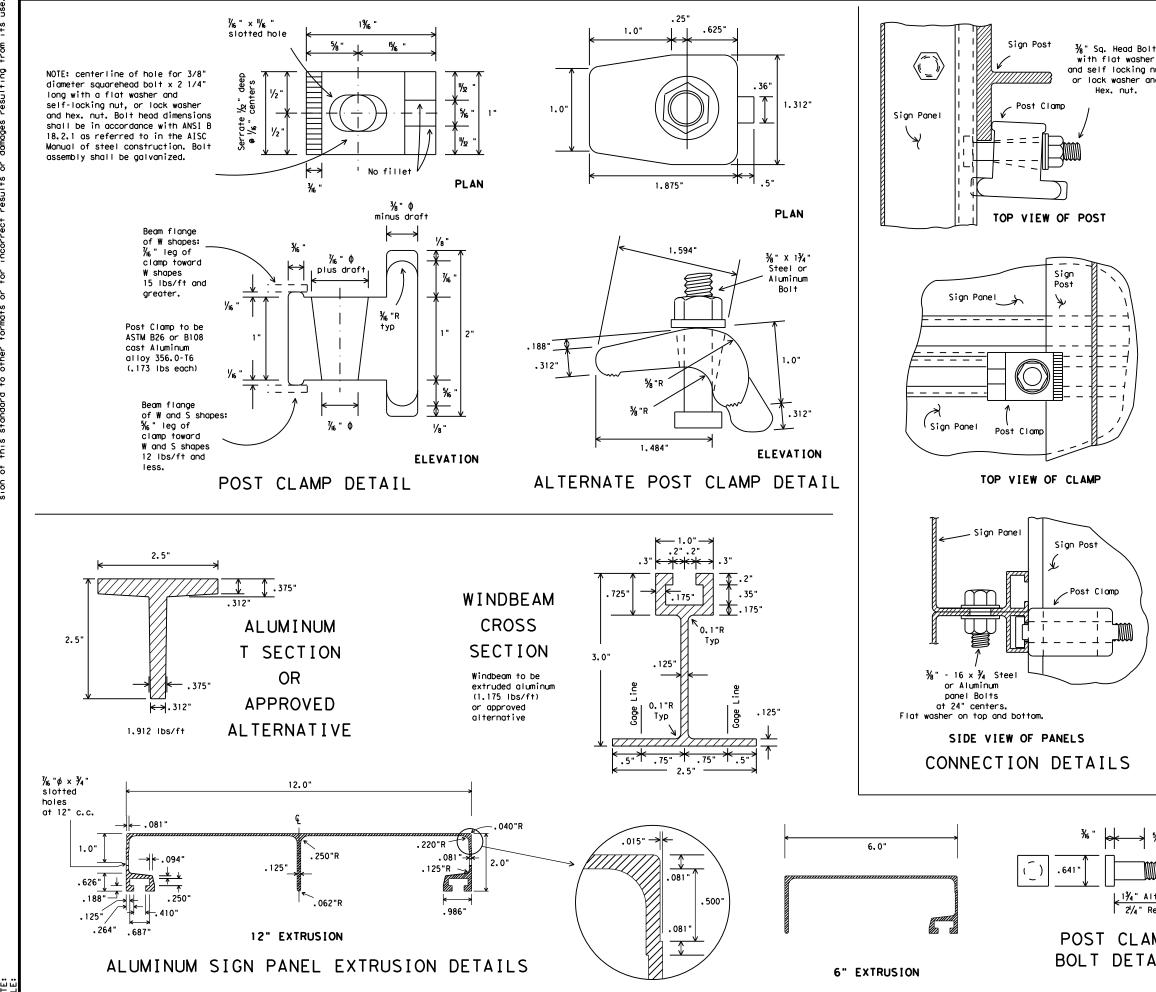
i	ng.	

1. SIGN SUPPORT # OF POSTS MAX. SIGN AREA 10 BWG 16 SF 10 BWG 32 SF 32 SF Sch 80 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 sign is viewed from the front.) Repair aglyanized 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)
2	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
Regul atory	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
Regu	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
	48x60-inch signs	TY \$80(1)XX(T)
	48x48-inch signs (diamond or square)	TY 10BWG(1)XX(T)
ō	48x60-inch signs	TY \$80(1)XX(T)
Warning	48-inch Advance School X-ing sign (S1-1)	TY 10BWG(1)XX(T)
Ň	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)





DATE:

with flat washer and self locking nut or lock washer and Hex. nut.

DEPARTMENTAL MATERIAL SPECIFICATIONS

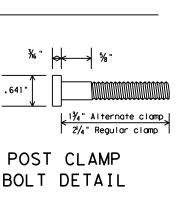
SIGN HARDWARE

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.





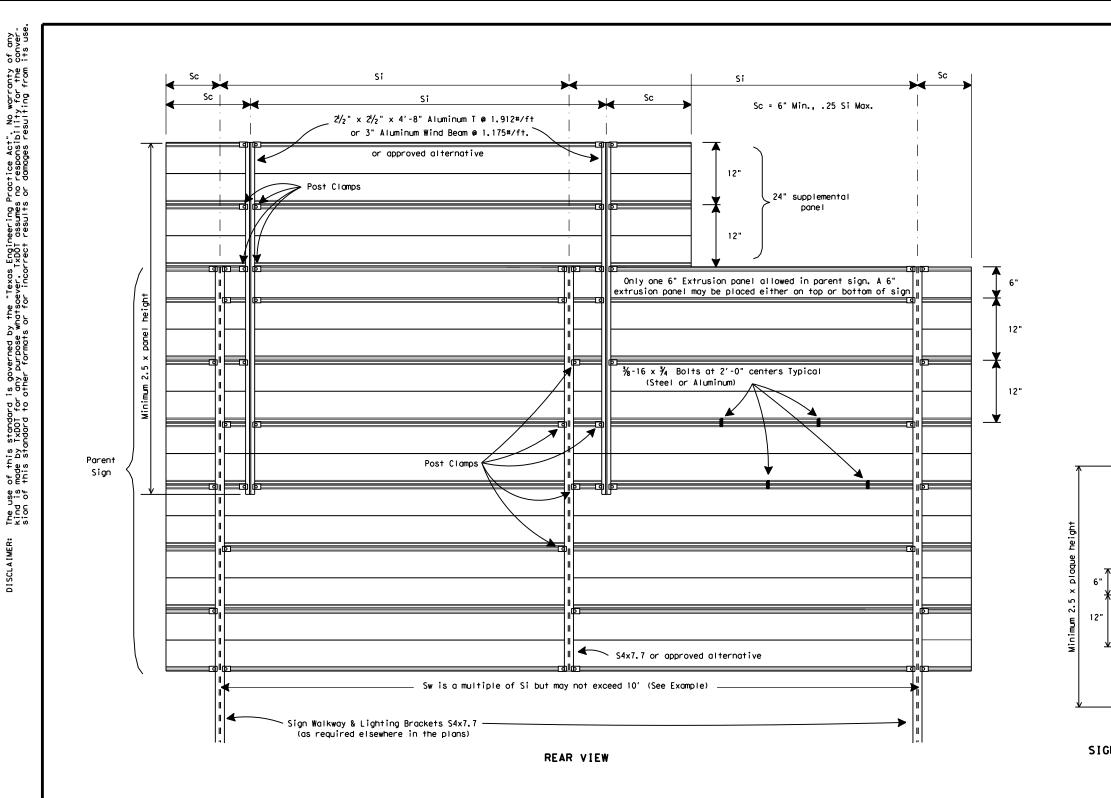
Texas Department of Transportation Traffic Operations Division

SIGN MOUNTING DETAILS-EXTRUDED ALUMINUM SIGN PANELS & HARDWARE

SMD(2-1)-08

۲) C	xDOT 2001	DN: TX	тот	CK: TXDOT	DW:	TXDOT	CK: TXDOT
9-08	REVISIONS	CONT	SECT	JOB		ніс	GHWAY
		DIST		COUNTY			SHEET NO.

27A



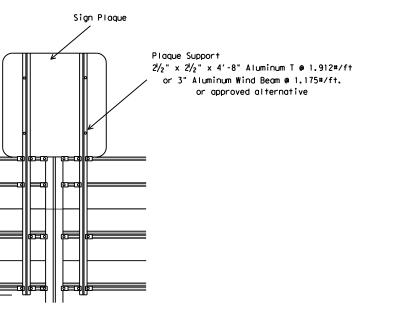
	MA	XIM	IUM	SIG	IN SU	PPC	RT	SPA	CINO	5 " 3	Si"	(F[EET)			
"d"		EXTRUDED ALUMINUM SIGN PANELS														
Deepest		WITH EXIT NUMBER PANELS WITHOUT EXIT NUMBER PANELS														
Sign in	WI	ΓH W/	ALKW/	AYS	WITHC	DUT N	VALKI	VAYS	WI	TH W/	ALKW.	AYS	WITH)UT I	NALK	WAYS
Group		WIN	d zoi	NE	۷ I	VIND	ZON			WIN	D Z0	NE		WIN	D ZO	NE
(Ft.)	1	2	3	4	1	2	3	4	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.

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

EXAMPLES (FOR DETERMINING Si and Sw)

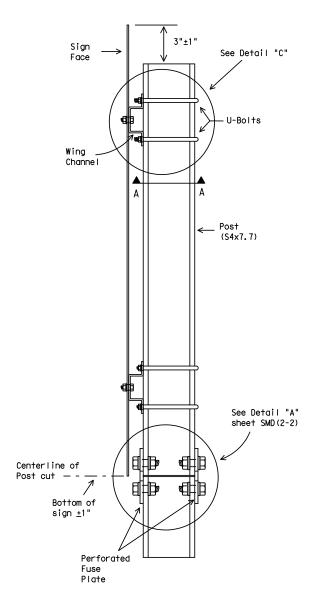
Values shown for Si are maximum values. Si may be varied for different sign lengths and Truss mounting conditions. Sw should not exceed two times Si(Max.) or 10 feet.



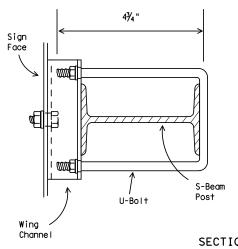
SIGN PLAQUE MOUNTING DETAIL

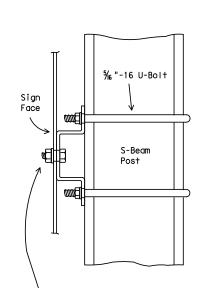
Texas Depa Traffic				nsį	oorta	ntion
SIGN MOUN OVERH EXTRUDE	EA() AL	SIGN	IS NL	JM	-
CTxDOT December 1995	DN: TXC	от	CK: TXDOT	DW:	TXDOT	CK: TXDOT
© TxDOT December 1995 9-08	DN: TXC CONT	OT SECT	CK: TXDOT JOB	DW:		CK: TXDOT
PEVISIONS				Dw:		
REVISIONS				DW:		
PEVISIONS	CONT		JOB	Dw:		HIGHWAY

WING CHANNEL CLAMP DETAIL FOR TYPE G MOUNT



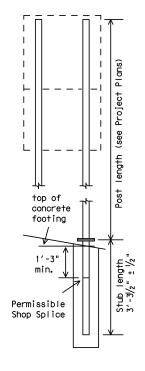






Galvanized steel or aluminum self-locking hex. head nut. 3/8 " - $16 \times 3/4$ " hex. head bolt for sheet metal. 3/8 " - $16 \times 11/4$ " hex. head bolt for plywood. 3/8 " galvanized medium washer.

DETAIL "C"



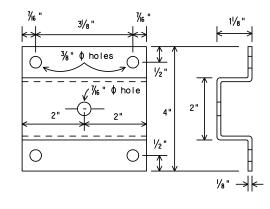
The weight of one S4x7.7 post is equal to 112.2 lbs. plus 7.7 lbs./ft x (post length in feet minus 10 ft). The weight of 112.2 lbs. includes 10 feet of post length, post foundation stub, related connection plates, friction fuse plate, and all high strength bolts, nuts and washers. 30' or more desirable. May be reduced depending on cross section, viewing conditions and other related factors.



This type mount to be used:

(1) For SPEED LIMIT sign (R2-1) when used in combination with R2-2 and R2-4 or for R2-2A.

(2) For DO NOT ENTER sign (R5-1 when used with WRONG WAY sign (R5-1a). R5-1a is mounted above R5-1.



WING CHANNEL

Wing channel, 4" width x $1/_8$ " depth x $1/_8$ " 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 finish).

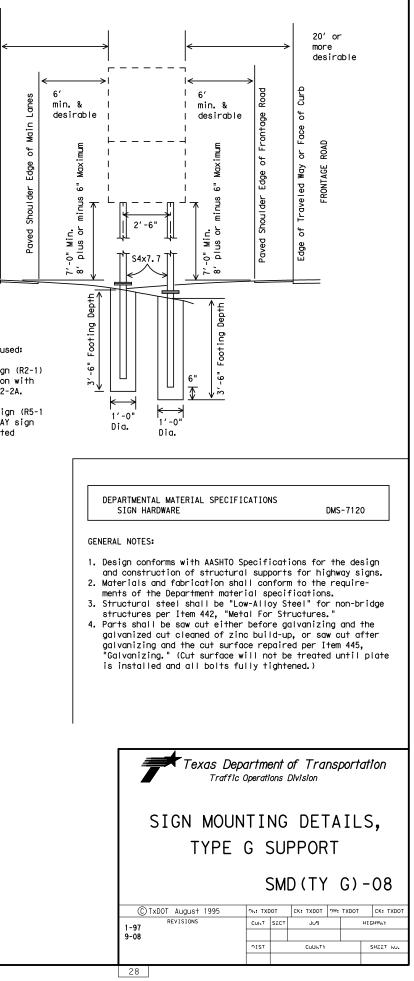
SECTION A-A

of any converits use.

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

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DISCLAIMER:



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fro		TOW	ER PIPE	В	OLTS	PLATE	TRUSS		IGN LOADS	_	OWER PIPE	BOI	TS	PLAT	E INUS		IGN LOA		TOWER	_	BOL	TS	PLATE	TRUSS	DESIGN		TOWER	PIPE	BO	DLTS	PLAT	E DEE	<u> </u>	IGN LOADS	8H
bui+	0 ¹ f+) (i	.D. IN)	X ⊂ DEFL ΔH (in)		NO. CIR DIA	SIZE	ΔV	V	TORSION MOMENT T M (K-f+) (K-f+)		MALL WALL (in) MALL (iu)	SIZE DIA NO	D. CIR DIA	SIZE (in)	DEFL △V		Т	м	ALL HICK	DEFL	SIZE DIA NO. (in)	BOLT CIR DIA	SIZE (in)	ΔV		м		C DEFL C △H C (in)		NO. CIR DIA	SIZE			T	м
esul	14'		250 0.105	$5 1 \frac{1}{4}$	6 20 ¹ / ₂	(in) " 24 × 1 /			16.19 49.8	_	0.250 0.235	1 3/8 8	_	"241/2×				K-f+) (in 76.63 20	0.25	_	1 1/4 8	24 1/2	" 28 × 1 ½		(Kips)(K-1 7.43 69.		20 0.2		(in) 1 1/2 1	8 25"	29 x 1			K-f+) (K- 07.68135	5.49 14'
es - c	15'	٨	1 0.120			Å	٨	3.61	53.42		0.270	A A	٨	1	0.6	_		81.91	٨	0.244	1 1/4	$24 \frac{1}{2}$			7.43	113.96	1 0.2		۸.	λ Λ 	Å	1.4			4.13 15'
- 6 mp	17'		0.13					3.62	57.00 60.59		0.308				0.6			87.23 92.57		0.278	/ 7/8	24 94	"281/2×13	6 0.8 0.8	7.45	121.17	0.2		$\frac{1}{1}$	25"	29 × 1	$ \frac{1.4}{1.5}$	9.19		2.86 16' 1.65 17'
20	18'		0.17		Y			3.66	64.2		0.389			241/2×				97.94		0.352	¥			_	7.49	135.72	0.31		1 3⁄4	25 3/8	"29¾×1	/0			0.51 18'
0 0 0 0 0 0 0 0 0 0 0 0 0	19' 20'		0.19		6 8			3.67	67.85		0.434 v 0.481			24 ¹ / ₂ ×	1 ¹ / ₂ 0.7			03.33		0.392	$\frac{1 \frac{3}{8}}{1 \frac{1}{2}}$	24 %	"28½×13 29 ×1½	/8 0.9 /2 1.0	7.51	143.06	0.31				29¾×1 29¾×1		9.25		9.43 19' 8.39 20'
esul	21′		0.235		1		Ý	3.71	75.18	_	0.250 0.530	V I	Į į	Ý	1	5.51		14.19		0.479				-	7.55	157.84		12 0.627				1.6	_	197	7.41 21′
	22' 23'	++-	0.258				_	3.73 3.74	78.88		0.281 0.521	1 %	20 ¾ 21 "	"24½× 25 ×		5.53		19.66	γ 0.25	0.526		+	29 × 1 ½	1.1	7.57	165.28		44 0.628 44 0.686			¥ 29∛₄× 1	1.6	_		6.47 22' 5.57 23'
orre	24′		0.308	3		Ý.	٨	3.76	86.33	3	0.281 0.620	1	Å	1	. ,.	5.56	1	30.65	0.28	1 0.560	Ý	Ý	29 × 15	8	7.62	180.26		44 0.747			29¾×1	17/8	9.36	224	4.71 24′
	25′ 26′	++-	0.33			24 × 1 / 24 × 1 3		3.78 3.79	90.08		0.312 0.610			¥ 25 ×	1 5⁄4	5.58		36.18	0.28	_	$\frac{1}{1}\frac{1}{2}$	25" 25 3/8	29 ×15/ "29∛₄×15/	8	7.64	187.79	0.3	75 0.748 75 0.809	¥ 1 3⁄4	25 ³ /8	29∛₄× 1 "29¾× 1		9.38		3.89 25' 3.10 26'
for	27'		0.389				•	3.81	97.64		0.312 0.711			25 ×		5.62	1	47.30	0.31	_		10 /8	29 ³ ⁄ ₄ ×1 ³	4	7.68	202.94	0.3		2	25 3/4			9.42	252	2.34 27′
	28′ 29′		0.419					3.83	101.4		0.344 0.699					5.63		52.89 58.50	0.31	_			1		7.70	210.55	0.40						9.44		1.62 28′ 0.93 29′
at at	20' 30'		0.48			γ		3.86	109.1		0.344 0.802	1 1/2	21"	25 ×	1 3⁄4	5.67		64.12	0.34	_			29¾×13	/4	7.74	225.86	0.40	06 0.999			301⁄2×	2	9.48		0.27 30'
	31′ 32′ ′	160	0.513		¥ ¥ 8 20 ½	24 × 1 ³ /24 × 1 ¹ /24 × 1	/8 Y	3.88			0.375 0.791 0.375 0.843	1 ³ ⁄ ₄ ¥	21 1/2	" 26 × " 26 ×		5.68		69.77 ¥	_	0 0.770 0 0.821	1 3/ Q	25 3/	$29\frac{3}{4} \times 1\frac{7}{2}$	/8 ¥	7.77 ¥	233.56 08 241.27	¥ 0.4	41 0.992 41 1.057	¥ 1	¥ ¥	30½×2		9.50	¥ 289 07.68 299	9.64 31'
other	52	1010	230 0. 34	/ /4	0 20 72	1 24 11/	2 0.3	5.05	10.19110.0	- 10	0.375 0.845	1 /4 0	21 /2	20 ^	1 /8 0.0	1 3.10	51.5011	13.43 20	0.34	0[0.021]	1 /4 0	23 /8	23/4/1/	8	1.19 09.	001241.27	20 0. 4	4111.037	2	0 23 /4	507222	- /4 1.0	9.33	01.00233	J. 04 JZ
<u></u>									ZONE 3	3	WITH	AND	WIT	HOU	T IC	F	80	MPH V	NIN	D															
lard					30	SPAN			20112					SPAN	- 10	_		<u> </u>				40	SPAN					GENERAL	NOTES	:					
stance	포트 -	TOW	ER PIPE		NCHOR BOLTS	BASE PLATE	TRUSS	DES	IGN LOADS	т	OWER PIPE	ANC		BAS PLAT		S DES	IGN LOA	ADS 1	TOWER	PIPE	ANCH BOL		BASE PLATE	TRUSS	DESIGN	LOADS	GHT						Standar	d or Highwa	УГ
this this	5 ⊒ ⊒ I I I I	. p. –	tion DEFL	SIZE	BOLT	SIZE		SHEAR	TORSION MOMENT	го. р.	⊣☆〜 DEFL	SIZE	BOLT	SIZE	DEFL	_ SHEAR T	FORSION N	MENT O.D	ĽĽ	DEFL	SIZE	BOLT	SIZE		SHEAR TORS	ION MOMENT	HEI		umina	ires, a				nd Interi	
נ+ י+	f+) (i	in)M		DIA (in)	NO. CIR DIA		∆V (in)	V (Kips)	T M (K-f+) (K-f+)	(in)	AH (in) MAL	DIA NO	D. CIR DIA	(in)	· ∆V (in)	V (Kips)(T (K-f+) (M K-ft) (in	WAL	(in)	DIA NO. (in)	. CIR DIA	(in)	∆V (in)	V T (Kips)(K-1	M (K-f+)	(f+)	Steel	for to	ower pi	pe shal 501. To	l conf	orm to pe wall	ASTM A53 thicknes	ss
26	14' ¦	_	250 0.289 250 0.33	/ -	8 29" ≜ 29"	33 × 1 ½	2 1.6	11.00	155.44 167.1	_	0.250 0.210	1 3/4 8	35 3/8	"39¾×	11/2 1.5	_		202.48 30 213.97 A	0.28	0.260	1 ³ ⁄ ₄ 8	35 3/8	"39½×1½	2 2.1	14.65276.	72 242.20	14' 15'	shown i	s the r	minimum	n allowa	ble.F	abricat	or may us same diam	se
200	16′		281 0.33			"33¾×1½	2 1.6	11.05	187.5	-	V 0.241				1.6			225.63		0.339	1 3/4	35 78 35 3 8	"3978×17	2 2.2 /2 2.3	14.71	254.89		with gr	onnect	ion bol	ts shal	l conf	orm to	[tem 447,	,
-	17' 19'		0.38 0.428			33¾×1½ 33¾×1½	-	11.08	197.9		0.250 0.310				1.7	12.97		237.46		0.383	2	35 3/4	40 ¹ / ₂ ×1 ¹ / 40 ¹ / ₂ ×1 ⁵		14.75	280.40 293.56		bolts,	nuts ar	nd wash	iers sha	ill be	galvani	el, conne zed in	ction
	19′	0	281 0.47			33¾×15	-	11.13	208.4		0.281 0.310				1.7			261.52	0.28				40/2/1/		14.81	306.90			nsate –	for tru	iss defl	ection	at fre		
-	20'	0.	312 0.47 ⁻			33¾×15 33¾×15	•	11.15	229.6		0.383				1.8	_		273.72	0.31	2 0.478 0.527			40 ¹ / ₂ ×15	-	14.84	320.39 334.02		by offs truss-t	o-tower	r conne	ction.				
ŀ	22'		0.52			33 ³ / ₄ ×1 ³	-		251.0		0.422	V I		V V	1.8	_		298.44		0.578			40 ⁷ 2×1 ⁷ 40 ¹ / ₂ ×1 ³			347.79		For b	ase and	d found			drawing see st		
-	23'		0.63 312 0.68		¥	$33\frac{3}{4} \times 1\frac{3}{4}$			261.9		0.507	1 3/4			1 1/2 2.0 1 5/8 2.0			310.94 323.51		0.632					14.94 14.97	361.67		drawing For c	ntile	ver tru	iss leng	ths fa	lling b	etween th onger spa	iose
ŀ	24′ 25′		344 0.679			"33¾×1¾ "34½×1¾		11.25	272.8		0.552		35 74		1 % 2.0			336.16	0.31	0.688 2 0.747			40½×13			375.66 389.75		Truss	and $+a$	owers f	or cant	ilovor	einn e	innorte a	nro I
	26'		1 0.73			34 ¹ / ₂ × 2			294.7		0.647				1 5/8 2.2			348.89	0.34	0 0.736	Ý		40 ¹ / ₂ × 2			403.94	26'	panel o 3 pound	ver 100	0% of t	he span luared f	lengt or sig	h. Des n panel	ign inclu and 20	Ides
ŀ	27′ 28′		0.792 v 0.852				_	11.33	305.7 316.8					40 ⁷ 2×	1 ³ ⁄ ₄ 2.2 2.3	13.28		361.68 374.53		0.794	2 1/4		"40 ¹ / ₂ × 2 41 × 2			418.22	27'	pounds per foo	ber for N	ot for walkway	lights s all p	and 50	pounds as spec	ified for	-
	29′		344 0.914					11.38	327.9		0.310 0.726					13.35		387.45		0.916	۸.	Å			15.13	447.01		the des Detai for Des	ian sia	an pane	1.				
ŀ	30' 31'		375 0.90 375 0.962					11.41	339.1 y 350.3		♦ 0.777 ♦ 0.830		· •		2.2	13.38		100.42 113.45 y		0 0.980 5 0.963	<u> </u>				15.16 15.19 v	461.52		Numbe	- of H	igh Str	ength b	olts r	equired	in truss	3
	32' 2	24 0.	375 1.02	32	8 29 ¾	"34½× 2	2.3	11.44	155.44361.1	3 30	0.310 0.884	28	35 ¥	"401⁄2×			11.584	126.53 30	0.37	5 1.026	2 1/4 8	36"	41 × 2	3.2	15.22276.	72 490.75	32'	connect e.g. [3	ion or], afte	splice er_the	are in member	size.	d in br	ackets, bads for	
				Δł	H ╼┥┠╾╴	r										T A T I										1		Truss,	Stign Pa	anel, L	ights a	nd Wal	esign i kways.	bads for	
			/							1.0.1	15/ 0.55				DE	TAIL		,			25/		r												
		¥	FAAF	M	1	W ×		DTH X I	DEPTH		, 15', & 20' .0 x 4.0		4.($\frac{25'}{25}$ × 4.0			30 4.0 x			4.5 >	35′ < 4.5		4.	40' 5 x 4.	5										
		1			111	<u> </u>					3 × ¾ ②				-	_				3 × 3 >			L3 1/2×3						Á	╤┽;				ransport	ation
						-		IAGONA			$\frac{2 \times \frac{3}{6}}{\frac{1}{2} \times \frac{3}{6}}$	[2] L [2] L 2] L 2 x] L 3 x				2 x 2 > 3 x 3 >			L 2 x L 3 x			1					Traf	flc Operai	tions Divisi	חס	
						DEAD	LOAD V	ERTICA	L-② L	2 ×	2 × ¾	[2] L	2 × 2	× ¾	[2]] L 2 X	< 2 ×	³ ∕ ₁₆ □	2] L 2	1/2×2 1/2>	< 3/16	[2]	L2 1/2×2	1/2× 3/1	5 [2]										
					v v	-		STRUT-	-		2 × ¾ 38 Ib∕ft	[1] L		<u>× ¾</u> Ib/ft	[1]] L 2 ×	(2 x 45 lb,		1] L	2 x 2 > 53	<u>< ¾</u> b∕f†	[1]	L 2 X 3	2 x ¾ 62 Ib/	-					CA	NTIL	EVEF	R OVE	RHEAD	ן כ
				М							50 15/11 5/8" DIA		5/	6" DIA			5⁄8" I	DIA		5⁄8 "	DIA			5∕8" DI	A	1					SIC		JPPOF	2TS	
			ELEVA	TION	I				IN CHORD	٦~	5∕8″DIA ea			8" DIA 4" DIA				DIA or DIA ea		7~5%" 5~3⁄4"				5%8" DI 3∕4" DI							210				
		(*	SHOWING		TGN					<u> </u>	/0 DIA 60		<u> </u>	- 014		<u> </u>	/4 [<u> </u>	017 6			/4 01		1					ററ	-22(73	& Z31	T - 1 0
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		LO.	AD DEFL	ECTI	ONS)																•		FOR STRU							REVISI			SECT		HIGHWAY

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

Texas Dep Traffic				nsį	porte	ation
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