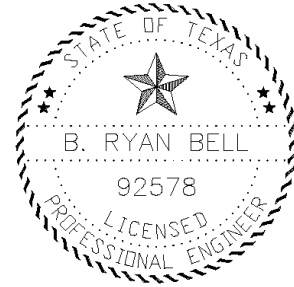


ADDENDUM NO. 1

Project: **2022 ROAD MAINTENANCE PROJECT**
Owner: **City of Dripping Springs Texas**
Engineer: **B. Ryan Bell, P.E. – Project Engineer**
Date: **October 3, 2022**



B. R. Bell

Bidders are hereby notified of the following revisions and/or clarifications to the construction plans, contract documents and specifications. This Addendum forms a part of the Contract and clarifies, corrects, or modifies original Bid Documents.

BEGIN REVISIONS**I. General**

All bidder questions must be submitted in writing via email to Chad Gilpin, P.E., City Engineer, CGilpin@cityofdrippingsprings.com no later than 5:00 p.m. on Friday, October 7, 2022.

II. Contract Documents and Specifications:**Section B-1 BID FORM -**

REPLACE – Bid form in its entirety with the bid form attached to this addendum.

III. Construction Plan Revisions:**Sheet 1 of 14 – COVERSHEET**

REPLACE – Index of sheets with updated index to include additional sign mounting details.

Sheet 3 of 14 – SCHEDULE OF QUANTITIES

REPLACE – Quantity table with updated quantities.

Sheet 10 of 14 – PAVING DETAILS

REPLACE – Sheet with the attached version.

Sheet 11 of 14 – SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS SMD(GEN)-08

ADD – New sheet

Sheet 12 of 14 – SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-1)-08

ADD – New sheet

Sheet 13 of 14 – SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-2)-08

ADD – New sheet

Sheet 14 of 14 – SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-3)-08

ADD – New sheet

IV. Contractor Questions

1. **QUESTION:** *When will the NTP be provided to begin work on this project?*

RESPONSE: This bid is anticipated for Council approval on November 1, 2022. The NTP is expected to be issued on November 2, 2022.

2. **QUESTION:** *The rate for the Tack Coat is shown on the plans as .20 GAL/SY which is very heavy (this is the rate for a Prime Coat on flex base). According to the HAYS County Specs the TACK COAT shall conform to COA 307S, "Tack Coat" which specifies the following: "The asphaltic material shall be applied on the clean surface by an approved type of self-propelled pressure distributor, so operated as to distribute the tack coat at a rate not to exceed 0.10 gallon per square yard (0.45 liters per square meter) of surface, evenly and smoothly with sufficient pressure to provide proper distribution". This pay item is bid by the SY so there will not be a price adjustment for rate adjustments (FYI), we would prefer to see it by the gallon in accordance with TxDOT Specifications so the City will only pay for what is used on the project. Also note, that Tack Coat will need to be applied to the entire area of the overlay which is 3,208 SY (x .10 rate = 321 gallons), Pay Item 4 on the bid form is showing 2,568 SY. Can this be reviewed and corrected?*

RESPONSE: The tack coat rate has been changed to 0.1 GAL/SY in the plans. Quantities have been updated to be shown in units of gallons instead of square yards. The tack coat quantity has been updated to be applied to the entire area of the overlay.

3. **QUESTION:** *We are comparing TxDOT Item 340 to Hays County Specifications, please confirm the most current Hays County Specification is dated May 13, 2019 (we obtained this from the Hays County Website: <https://hayscountytexas.com/departments/transportation-department/standards-specs/>).*

RESPONSE: We have confirmed that the most current Hays County Specification is dated May 13, 2019.

4. **QUESTION:** *The current HAYS County specification references item TxDOT specification for Item 344 which is a super pave mix design. Is the HMAC specification for this project*

Dense Graded Mix (Item 340) or Superpave Mix (Item 344). If you want us to provide asphalt per Item 344, please provide the correct pay items to remedy this conflict.

RESPONSE: The HMAC specification for this project is Dense Graded Mix (Item 340). We have removed the note on the plans which stated "WHERE BOTH HAYS COUNTY AND TXDOT SPECIFICATIONS ARE NAMED IN THE SCHEDULE OF QUANTITIES ABOVE THE DIRECTION PROVIDED BY THE HAYS COUNTY SPECIFICATIONS SHALL SUPERSEDE WHERE IN CONFLICT WITH THE TXDOT SPEC ITEM. WHERE ADDITIONAL INFORMATION PROVIDED BELOW CONFLICTS WITH EITHER THE TXDOT OR HAYS COUNTY SPECIFICATIONS THE INFORMATION BELOW SHALL SUPERSEDE," to avoid confusion.

5. **QUESTION:** *Can you clarify the intent and scope of work for bid Item 1 PREPARING ROW – 12 STA?*

RESPONSE: Bid item has been deleted. Please see attached revised bid form.

6. **QUESTION:** *Do you have a detail for Bid Item #9 644-6001 IN SM RD SN SUP&AM TY10BWG(1)SA(P)? Are these for the R3-8 signs shown on 5 of 10 at the intersection of RR 12 & Mercer Street?*

RESPONSE: Details have been added to describe bid item 644-6001 IN SM RD SN SUP&AM TY10BWG(1)SA(P). See sheets 11-14.

7. **QUESTION:** *Can you check that the quantity for Pavement Marking Elimination pay items (677) are only for the West side of Mercer Street (from RR 12)? We won't need them on the East side where we are milling?*

RESPONSE: The elimination quantities have been updated to only include quantities on the west side of Mercer Street.

8. **QUESTION:** *Do you want the contractor to provide 2 PCMS (Portable Changeable Message Signs) for the project or does the city have any they can dedicate for the project; are PCMS units required in addition to project limit signage?*

RESPONSE: No. This will not be necessary.

V. Attachments:

This Addendum contains 13 page(s) of attachment(s).

- Project Manual Section B-1 Bid Form (6 Pages)
- Plan Sheet Revisions (7 Pages):
 - Sheet 1 of 14 – COVER SHEET
 - Sheet 3 of 14 – SCHEDULE OF QUANTITIES
 - Sheet 10 of 14 – PAVING DETAILS

- Sheet 11 of 14 – SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS SMD(GEN)-08
- Sheet 12 of 14 – SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-1)-08
- Sheet 13 of 14 – SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-2)-08
- Sheet 14 of 14 – SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-3)-08

END REVISIONS

BIDDERS MUST ACKNOWLEDGE RECEIPT OF THIS ADDENDUM ON THEIR BID PROPOSAL TO HAVE THEIR BIDS RECOGNIZED.

Revisions By:

B. Ryan Bell, PE
Project Engineer

Project: **2022 ROAD MAINTENANCE PROJECT**

THIS BID IS SUBMITTED TO:

City of Dripping Springs
City Hall
511 Mercer St.
Dripping Springs, Texas 78620

FROM: _____
Contractor

1. The undersigned BIDDER proposes and agrees, if this Bid is accepted, to enter into an Agreement with OWNER in the form included in the Contract Documents to perform and furnish all Work as specified or indicated in the Contract Documents for the Contract Price and within the Contract Time indicated in this Bid and in accordance with the other terms and conditions of the Contract Documents.
2. BIDDER agrees to commence Work under this Contract on a date to be specified in written "Notice to Proceed" of the OWNER and to reach Substantial Completion of the Work within **thirty (30) calendar days** thereafter. BIDDER further agrees to pay, as liquidated damages, the sum for each consecutive working day thereafter as provided in Division C, Section 7 thereafter that Substantial Completion has not been reached as provided in the Agreement.
3. BIDDER accepts all of the terms and conditions of the Advertisement, Notice to Bidders and Instructions to Bidders, including without limitation those dealing with the deposition of Bid Security. This Bid will remain subject to acceptance for **60 calendar days** after the day of Bid opening. BIDDER will sign and submit the Agreement with the Bonds and other documents required by the Bidding Requirements within **10 calendar days** after the date of OWNER's Notice of Award.
4. In submitting Bid, BIDDER represents, as more fully set forth in the Agreement, that:

A. BIDDER has examined copies of all the Bidding Documents and of the following Addenda (receipt of all which is hereby acknowledged):

Addendum No.:	<u>Addendum #1</u>	Dated:	<u>10-3-22</u>
Addendum No.:	_____	Dated:	_____
Addendum No.:	_____	Dated:	_____
Addendum No.:	_____	Dated:	_____
Addendum No.:	_____	Dated:	_____

B. BIDDER has familiarized itself with the nature and extent of the Contract Documents, Work, site, locality, and all local conditions and Laws and Regulations that in any manner may affect cost, progress, performance, or furnishing of the Work.

- D. BIDDER has obtained and carefully studied (or assumes responsibility for obtaining and carefully studying) all such examinations, investigations, explorations, tests, and studies that pertain to the subsurface or physical conditions at the site or otherwise may affect the cost, progress, performance, or furnishing of the Work as BIDDER considers necessary for the performance or furnishing of the Work at the Contract Price, within the Contract Time, and in accordance with the other terms and conditions of the Contract Documents; and no additional examinations, investigations, explorations, tests, reports, or similar information or data are or will be required by BIDDER for such purposes.
 - E. BIDDER has reviewed and checked all information and data shown or indicated on the Contract Documents with respect to existing Underground Facilities at or contiguous to the site and assumes responsibility for the accurate location of said Underground Facilities. No additional examinations, investigations, explorations, tests, reports, or similar information or data in respect of said Underground Facilities are or will be required by BIDDER, of the OWNER and/or the ENGINEER, in order to perform and furnish the Work at the Contract Price, within the Contract Time, and in accordance with the other terms and conditions of the Contract Documents.
 - F. BIDDER has correlated the results of all such observations, examinations, investigations, explorations, tests, reports, and studies with the terms and conditions of the Contract Documents.
 - G. BIDDER has given ENGINEER written notice of all conflicts, errors, or discrepancies that it has discovered in the Contract Documents, and the written resolution thereof by ENGINEER is acceptable to BIDDER.
 - H. This Bid is genuine and not made in the interest of or on behalf of any undisclosed person, firm, or corporation, and is not submitted in conformity with any Agreement or rules of any group, association, organization, or corporation; BIDDER has not directly or indirectly induced or solicited any other BIDDER to submit a false or sham Bid; BIDDER has not solicited or induced any person, firm, or corporation to refrain from bidding; and BIDDER has not sought by collusion to obtain for itself any advantage over any other BIDDER or over OWNER.
5. The following documents (signed and completed) are attached to and made a condition of this Bid:
- A. Required Bid Security in the form of a Bid Bond, Cashier's Check, or Certified Check.
 - B. Non-Collusion Affidavit
 - C. Conflict of Interest Statement
 - D. Information From Bidders

RESPECTFULLY SUBMITTED on _____, 2022.

By: _____
(Authorized Signature)

Bidder, if the Bidder is an individual
Partner, if the Bidder is a Partnership
Officer, if the Bidder is a Corporation

(Typed or Printed Name and Title)

Bidder: _____
(Name of Company)

Business Address: _____

Telephone No: _____

IF Bidder is a Corporation:

ATTEST

(Signature of Witness)

(Corporate Seal)

(State of Incorporation)

IF Bidder is a Joint Venture:

Each joint venture must sign a separate copy of this page. The manner of signing for each individual, partnership, and corporation that is a party to the joint venture should be in the manner indicated above.

BIDDER will complete the Work for the following prices:

Bid Item	TxDOT Spec	Description of Item with Unit Bid Price in Written Words	Unit	Approx Qty	Unit Amount	Total Price
1	0340 6011	D-GR HMA(SQ) TY-B PG64-22 for _____ dollars and _____ cents PER SQUARE YARD	SY	640	\$ _____	\$ _____
2	0340 6122	D-GR HMA(SQ) TY-D PG70-22 for _____ dollars and _____ cents PER SQUARE YARD	SY	3,208	\$ _____	\$ _____
3	0340 6272	TACK COAT for _____ dollars and _____ cents PER SQUARE YARD	GAL	321	\$ _____	\$ _____
4	0351 6006	FLEXIBLE PAVEMENT STRUCTURE REPAIR for _____ dollars and _____ cents PER SQUARE YARD	SY	640	\$ _____	\$ _____
5	0354 6002	PLAN & TEXT ASPH. CONC PAV (0" TO 2") for _____ dollars and _____ cents PER SQUARE YARD	SY	3,208	\$ _____	\$ _____
6	0500 6001	MOBILIZATION for _____ dollars and _____ cents PER LUMP SUM	LS	1	\$ _____	\$ _____
7	0502 6001	BARRICADES, SIGNS, AND TRAFFIC HANDLING for _____ dollars and _____ cents PER MONTH	MO	1	\$ _____	\$ _____
8	0644 6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P) for _____ dollars and _____ cents PER EACH	EA	2	\$ _____	\$ _____
9	0666 6012	REFL PAV MRK TY I (W) 4"(SLD)(100 MIL) for _____ dollars and _____ cents PER LINEAR FOOT	LF	2,265	\$ _____	\$ _____
10	0666 6036	REFL PAV MRK TY I (W) 8"(SLD)(100 MIL) for _____ dollars and _____ cents PER LINEAR FOOT	LF	180	\$ _____	\$ _____
11	0666 6042	REFL PAV MRK TY I (W) 12"(SLD)(100 MIL) for _____ dollars and _____ cents PER LINEAR FOOT	LF	193	\$ _____	\$ _____

BIDDER will complete the Work for the following prices:

Bid Item	TxDOT Spec	Description of Item with Unit Bid Price in Written Words	Unit	Approx Qty	Unit Amount	Total Price
12	0666 6048	REFL PAV MRK TY I (W) 24"(SLD)(100 MIL) for _____ dollars and _____ cents PER LINEAR FOOT	LF	76	\$ _____	\$ _____
13	0666 6054	REFL PAV MRK TY I (W)(ARROW)(100 MIL) for _____ dollars and _____ cents PER EACH	EA	8	\$ _____	\$ _____
14	0666 6078	REFL PAV MRK TY I (W)(WORD)(SLD)(100 MIL) for _____ dollars and _____ cents PER EACH	EA	6	\$ _____	\$ _____
15	0666 6126	REFL PAV MRK TY I (Y) 4"(SLD)(100 MIL) for _____ dollars and _____ cents PER LINEAR FOOT	LF	2,035	\$ _____	\$ _____
16	0666 6167	REFL PAV MRK TY II (W) 4"(BRK) for _____ dollars and _____ cents PER LINEAR FOOT	LF	15	\$ _____	\$ _____
17	0666 6170	REFL PAV MRK TY II (W) 4"(SLD) for _____ dollars and _____ cents PER LINEAR FOOT	LF	668	\$ _____	\$ _____
18	0666 6178	REFL PAV MRK TY II (W) 8"(SLD) for _____ dollars and _____ cents PER LINEAR FOOT	LF	60	\$ _____	\$ _____
19	0666 6180	REFL PAV MRK TY II (W) 12"(SLD) for _____ dollars and _____ cents PER LINEAR FOOT	LF	104	\$ _____	\$ _____
20	0666 6182	REFL PAV MRK TY II (W) 24"(SLD) for _____ dollars and _____ cents PER LINEAR FOOT	LF	20	\$ _____	\$ _____
21	0666 6184	REFL PAV MRK TY II (W)(ARROW) for _____ dollars and _____ cents PER EACH	EA	2	\$ _____	\$ _____
22	0666 6192	REFL PAV MRK TY II (W)(WORD)(SLD) for _____ dollars and _____ cents PER EACH	EA	1	\$ _____	\$ _____
23	0666 6207	REFL PAV MRK TY II (Y) 4"(SLD) for _____ dollars and _____ cents PER LINEAR FOOT	LF	586	\$ _____	\$ _____

BIDDER will complete the Work for the following prices:

Bid Item	TxDOT Spec	Description of Item with Unit Bid Price in Written Words	Unit	Approx Qty	Unit Amount	Total Price
24	0666 6300	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL) for _____ dollars and _____ cents PER LINEAR FOOT	LF	23	\$ _____	\$ _____
25	0672 6007	REFL PAV MRKR TY I-C for _____ dollars and _____ cents PER EACH	EA	12	\$ _____	\$ _____
26	0672 6009	REFL PAV MRKR TY II-A-A for _____ dollars and _____ cents PER EACH	EA	104	\$ _____	\$ _____
27	0677 6001	ELIM EXT PAV MRK & MRKS (4") for _____ dollars and _____ cents PER LINEAR FOOT	LF	1,269	\$ _____	\$ _____
28	0677 6003	ELIM EXT PAV MRK & MRKS (8") for _____ dollars and _____ cents PER LINEAR FOOT	LF	60	\$ _____	\$ _____
29	0677 6007	ELIM EXT PAV MRK & MRKS (24") for _____ dollars and _____ cents PER LINEAR FOOT	LF	20	\$ _____	\$ _____
30	0677 6008	ELIM EXT PAV MRK & MRKS (ARROW) for _____ dollars and _____ cents PER EACH	EA	2	\$ _____	\$ _____
31	0677 6012	ELIM EXT PAV MRK & MRKS (WORD) for _____ dollars and _____ cents PER EACH	EA	1	\$ _____	\$ _____

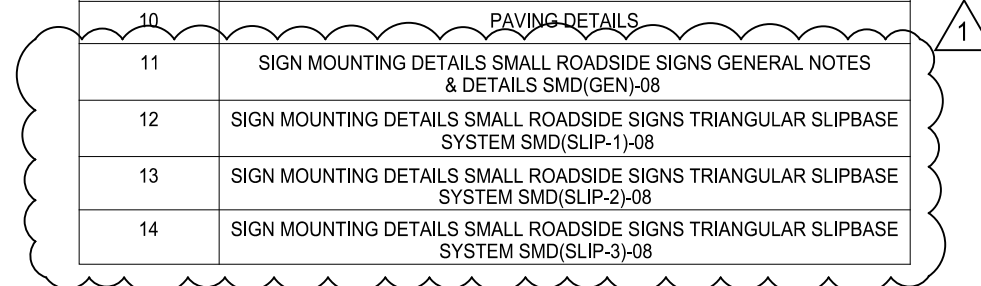
TOTAL BID (BID ITEMS 1-31)						
		for _____ dollars and _____ cents			\$ _____	\$ _____

CONSTRUCTION PLANS 2022 ROAD MAINTENANCE PROJECT

ROADWAY CLASSIFICATION:
MERCER ST. - COLLECTOR

INDEX OF SHEETS

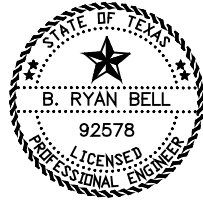
Sheet List Table	
Sheet Number	Sheet Title
01	COVER SHEET
02	GENERAL NOTES
03	SOQ
04	PAVING PLAN - MERCER ST
05	STRIPING PLAN - MERCER ST 1
06	STRIPING PLAN - MERCER ST 2
07	TRAFFIC CONTROL PLAN - MERCER ST
08	TRAFFIC CONTROL PLAN ONE-LANE TWO-WAY TRAFFIC CONTROL TCP(2-2)-18
09	TWO-WAY LEFT TURN LANES, RURAL LEFT TURN BAYS, AND LANE REDUCTION PAVEMENT MARKINGS PM(3)-20
10	PAVING DETAILS
11	SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS SMD(GEN)-08
12	SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-1)-08
13	SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-2)-08
14	SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS TRIANGULAR SLIPBASE SYSTEM SMD(SLIP-3)-08



PREPARED BY:

B.R. Bell

B. RYAN BELL, P.E.



03 OCTOBER 2022
DATE

RECOMMENDED BY:

Chad Gilpin

CHAD GILPIN, P.E. - CITY ENGINEER

10/3/22
DATE

APPROVED BY:

CRAIG RICE, MAINTENANCE DIRECTOR

DATE

CONTRACTOR: _____

CONSTRUCTION START: _____

CONSTRUCTION ACCEPTED: _____

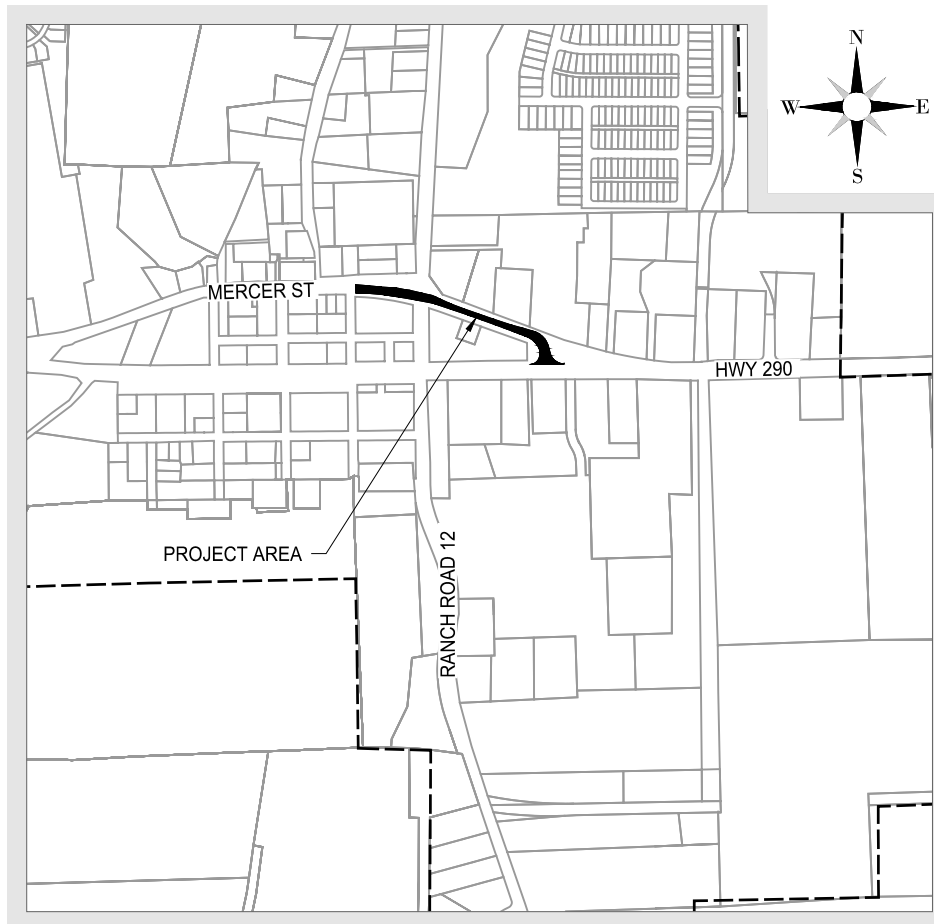
TOTAL CONSTRUCTION COST: _____

PREPARED BY:



T.B.P.L.S. Firm Registration # 10193770
T.B.P.E. Firm Registration # F-9266
9701 BRODIE LN, SUITE 203
AUSTIN, TX 78748
PH: 512.220.8100

OCTOBER 2022
PROJECT # MAINT 2022-001
WORK TYPE: MILL & OVERLAY, FULL DEPTH REPAIR, AND PAVEMENT MARKINGS
PROJECT LENGTH: 1,140 LF



APPROX. SCALE: 1" = 1,000'

PREPARED FOR:

CITY OF DRIPPING SPRINGS, TEXAS



REVISION BLOCK					
NO.	REVISION DESCRIPTION	AFFECTED SHEETS	DATE	APPROVAL SIGNATURE	APPROVAL DATE
1	ADDENDUM 1	3, 10-14	10/03/2022		

NOTES:

1. THIS PROJECT LIES WITHIN THE CITY LIMITS OF DRIPPING SPRINGS, TEXAS.
2. THIS PROJECT LIES WITHIN THE CONTRIBUTING ZONE OF THE EDWARDS AQUIFER.
3. A PORTION OF THIS PROJECT LIES WITHIN ZONE AE AS IDENTIFIED BY THE FEDERAL MANAGEMENT AGENCY FLOOD INSURANCE RATE MAP COMMUNITY PANEL NO. 48209C0105F DATED SEPTEMBER 2, 2005 HAYS COUNTY, TEXAS AND INCORPORATED AREAS.
4. CONTRACTOR IS RESPONSIBLE FOR ANY ADDITIONAL SURVEY VERIFICATION REQUIRED TO COMPLETE THE PROJECT.
5. RIGHT-OF-WAY LINES SHOWN HEREON ARE APPROXIMATE.

THESE PLANS ARE FULL SIZE AT 11" X 17"

01 OF 14

GILP-BLK.ctb

SCHEDULE OF QUANTITIES:

TxDOT SPEC	ITEM DESCRIPTION	UNITS	QTY
0340 6011	D-GR HMA(SQ) TY-B PG64-22	SY	640
0340 6122	D-GR HMA(SQ) TY-D PG70-22	SY	3208
0340 6272	TACK COAT	GAL	321
0351 6006	FLEXIBLE PAVEMENT STRUCTURE REPAIR	SY	640
0354 6002	PLAN & TEXT ASPH. CONC PAV (0" TO 2")	SY	3208
0500 6001	MOBILIZATION	LS	1
0502 6001	BARRICADES, SIGNS, AND TRAFFIC HANDLING	MO	1
0644 6001	IN SM RD SN SUP&AM TY10BWG(1)SA(P)	EA	2
0666 6012	REFL PAV MRK TY I (W) 4"(SLD)(100 MIL)	LF	2265
0666 6036	REFL PAV MRK TY I (W) 8"(SLD)(100 MIL)	LF	180
0666 6042	REFL PAV MRK TY I (W) 12"(SLD)(100 MIL)	LF	193
0666 6048	REFL PAV MRK TY I (W) 24"(SLD)(100 MIL)	LF	76
0666 6054	REFL PAV MRK TY I (W)(ARROW)(100 MIL)	EA	8
0666 6078	REFL PAV MRK TY I (W)(WORD)(SLD)(100 MIL)	EA	6
0666 6126	REFL PAV MRK TY I (Y) 4"(SLD)(100 MIL)	LF	2035
0666 6167	REFL PAV MRK TY II (W) 4"(BRK)	LF	15
0666 6170	REFL PAV MRK TY II (W) 4"(SLD)	LF	668
0666 6178	REFL PAV MRK TY II (W) 8"(SLD)	LF	60
0666 6180	REFL PAV MRK TY II (W) 12"(SLD)	LF	104
0666 6182	REFL PAV MRK TY II (W) 24"(SLD)	LF	20
0666 6184	REFL PAV MRK TY II (W)(ARROW)	EA	2
0666 6192	REFL PAV MRK TY II (W)(WORD)(SLD)	EA	1
0666 6207	REFL PAV MRK TY II (Y) 4"(SLD)	LF	586
0666 6300	RE PM W/RET REQ TY I (W)4"(BRK)(100MIL)	LF	23
0672 6007	REFL PAV MRKR TY I-C	EA	12
0672 6009	REFL PAV MRKR TY II-A-A	EA	104
0677 6001	ELIM EXT PAV MRK & MRKS (4")	LF	1269
0677 6003	ELIM EXT PAV MRK & MRKS (8")	LF	60
0677 6007	ELIM EXT PAV MRK & MRKS (24")	LF	20
0677 6008	ELIM EXT PAV MRK & MRKS (ARROW)	EA	2
0677 6012	ELIM EXT PAV MRK & MRKS (WORD)	EA	1

*TxDOT ITEM 0678, PAVEMENT SURFACE PREPARATION FOR MARKINGS IS SUBSIDIARY TO APPLICABLE BID ITEMS. NO SEPARATE PAYMENT WILL BE MADE FOR PAVEMENT SURFACE PREPARATION

1

NOTES RELATED TO PAY ITEMS AND SPECIFICATIONS

WHERE BOTH HAYS COUNTY AND TxDOT SPECIFICATIONS ARE NAMED IN THE SCHEDULE OF QUANTITIES ABOVE THE DIRECTION PROVIDED BY THE HAYS COUNTY SPECIFICATIONS SHALL SUPERSEDE WHERE IN CONFLICT WITH THE TxDOT SPEC ITEM. WHERE ADDITIONAL INFORMATION PROVIDED BELOW CONFLICTS WITH EITHER THE TxDOT OR HAYS COUNTY SPECIFICATIONS THE INFORMATION BELOW SHALL SUPERSEDE.

1

THERE WILL BE NO SEPARATE PAY ITEM FOR TEMPORARY WATER FOR IRRIGATION AND ESTABLISHMENT OF GRASSES. ALL IRRIGATION WATER REQUIRED FOR THE ESTABLISHMENT OF 85% COVER FOR THIS PROJECT SHALL BE SUBSIDIARY TO THIS PAY ITEM.

TxDOT ITEM 340 / HAYS CO. ITEM 6.00 - HOT MIX ASPHALT CONCRETE PAVEMENT

HMAC SHALL BE APPLIED AT THE FOLLOWING RATES:

HMAC TY B	115 LB/SY/IN
HMAC TY D	115 LB/SY/IN
TACK COAT	0.1 GAL/SY

1

TxDOT ITEM 132 - EMBANKMENT

ITEM SHALL BE PAID BY STATION ALONG AREA OF SUBGRADE WIDENING.



T.B.P.L.S. Firm Registration # 10193770
T.B.P.E. Firm Registration # F-8266
9701 BRODIE LANE #203
AUSTIN, TX 78748
PH: 512.220.8100

ENGINEER'S SEAL:



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THE DESIGNS REPRESENTED BY THESE PLANS ARE COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT PROTECTION UNDER 17 U.S.C. §101, ET SEQ., AS AMENDED. UNAUTHORIZED USE OF THESE PLANS OR THE DESIGNS REPRESENTED THEREIN WILL SUBJECT THE INFRINGER TO DAMAGES AND/OR JUDICIAL ACTION AS PROVIDED BY FEDERAL LAW.

REVISIONS:

NO.	REVISION	DATE
1	ADDENDUM 1	10/03/2022

DATE: 10/03/2022
DESIGNED BY: RP
CHECKED BY: BRB
PROJ #: MAINT-2022-001



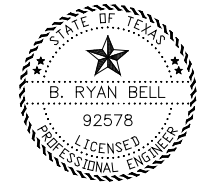
PROJECT:

2022 ROAD MAINTENANCE PROJECT

SHEET TITLE:

SCHEDULE OF QUANTITIES

ENGINEER'S SEAL:



3 October 2022

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COPYRIGHTED AND ARE SUBJECT TO COPYRIGHT
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AMENDED. UNAUTHORIZED USE OF THESE PLANS
OR THE DESIGNS REPRESENTED THEREIN WILL
SUBJECT THE INFRINGER TO DAMAGES AND/OR
JUDICIAL ACTION AS PROVIDED BY FEDERAL LAW.

REVISIONS:

NO.	REVISION	DATE
1	ADDENDUM 1	10/03/2022

DATE: 10/03/2022
DESIGNED BY: RP
CHECKED BY: BRB
PROJ #: MAINT-2022-001

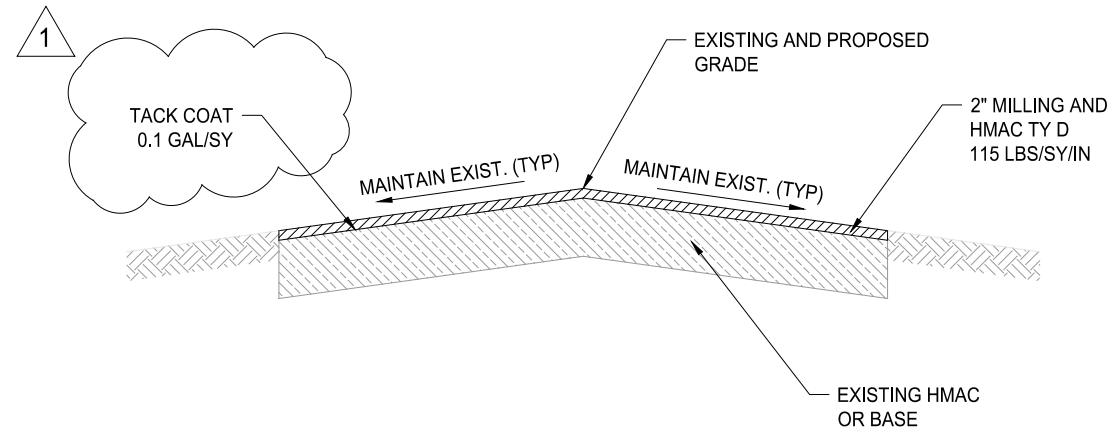


PROJECT:

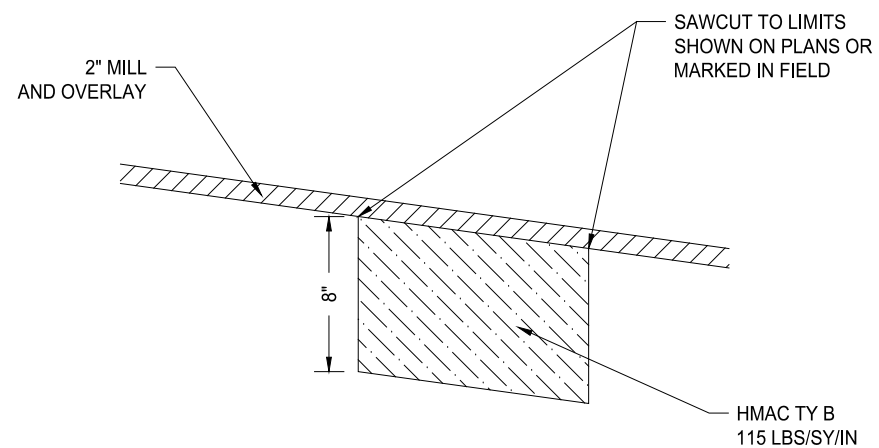
2022 ROAD
MAINTENANCE
PROJECT

SHEET TITLE:

PAVING DETAILS



1 MILL AND OVERLAY DETAIL
N.T.S.



2 FULL DEPTH REPAIR DETAIL
N.T.S.

SEQUENCE OF CONSTRUCTION:

1. INSTALL TRAFFIC CONTROL DEVICES PER PLANS AND TEXAS MUTCD STANDARDS.
2. MILL EXISTING HMAC TO THE LIMITS SHOWN ON THE PLANS.
3. PERFORM FULL-DEPTH PAVEMENT REPAIRS TO THE LIMITS SHOWN ON THE PLANS.
4. APPLY TACK COAT TO ALL AREAS OUTSIDE OF THE FULL-DEPTH PAVEMENT REPAIRS.
5. PLACE HMAC SURFACE COURSE TO THE LIMITS SHOWN ON THE PLANS.
6. PERFORM SURFACE PREPARATION FOR PAVEMENT MARKINGS PER SPECIFICATIONS. ALLOW 7 DAYS FOR TY II MARKINGS TO CURE PRIOR TO INSTALLING TY I MARKINGS.
7. INSTALL TY II MARKINGS AND SIGNS AS SHOWN ON THE PLANS.
8. REMOVE TRAFFIC CONTROL DEVICES AND OPEN ALL LANES TO TRAFFIC.

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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)

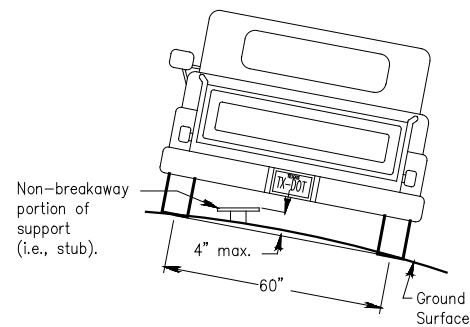
Anchor Type

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
 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))

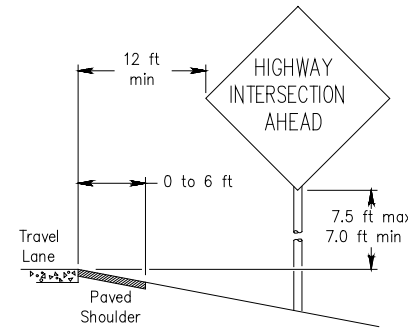
REQUIRED CLEARANCE FOR BREAKAWAY SUPPORT



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).

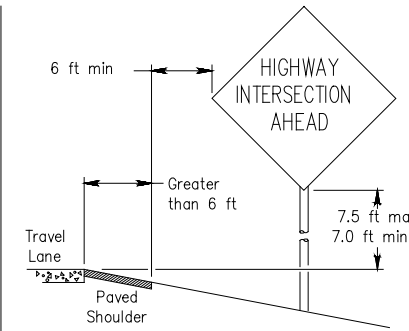
SIGN LOCATION

PAVED SHOULDERS



LESS THAN 6 FT. WIDE

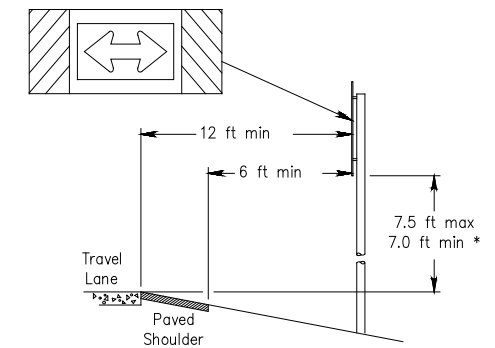
When the shoulder is 6 ft. or less in width, the sign must be placed at least 12 ft. from the edge of the travel lane.



GREATER THAN 6 FT. WIDE

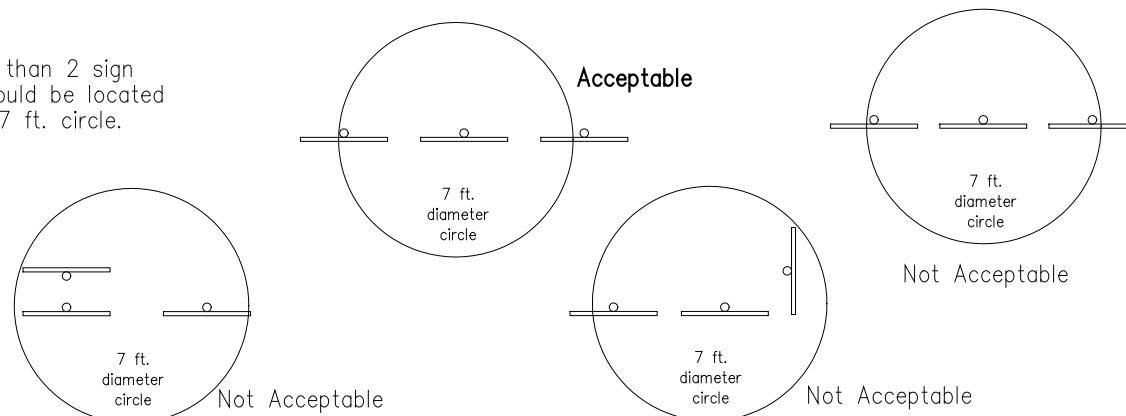
When the shoulder is greater than 6 ft in width, the sign must be placed at least 6 ft. from the edge of the shoulder.

T-INTERSECTION

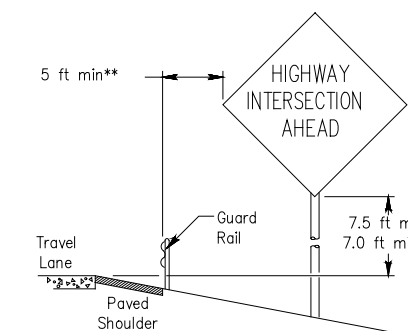


When this sign is needed at the end of a two-lane, two way roadway, the right edge of the sign should be in line with the centerline of the roadway. Place as close to ROW as practical.

No more than 2 sign posts should be located within a 7 ft. circle.

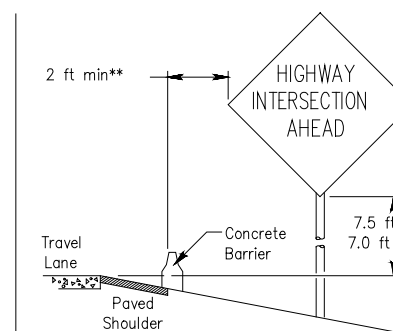


BEHIND BARRIER



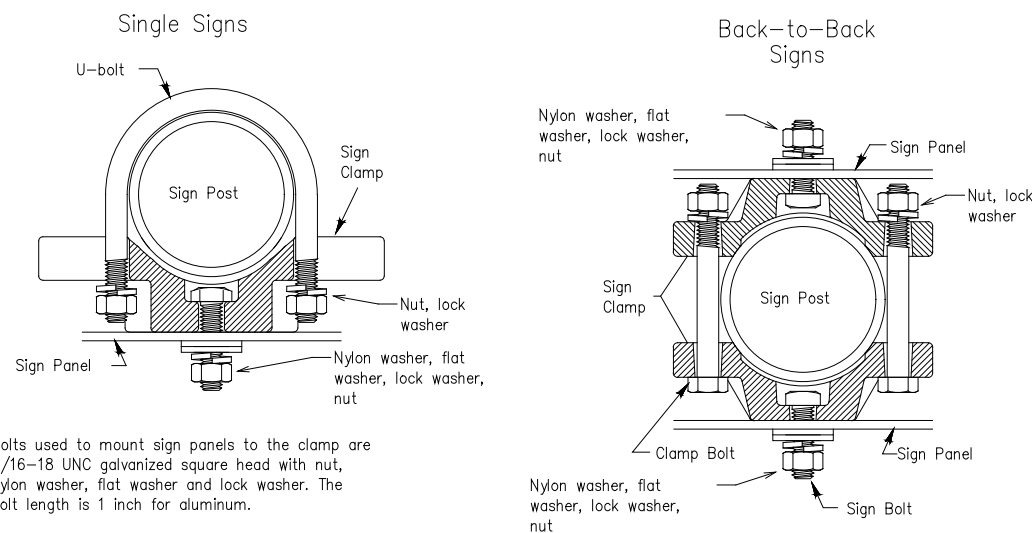
BEHIND GUARDRAIL

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



BEHIND CONCRETE BARRIER

TYPICAL SIGN ATTACHMENT DETAIL



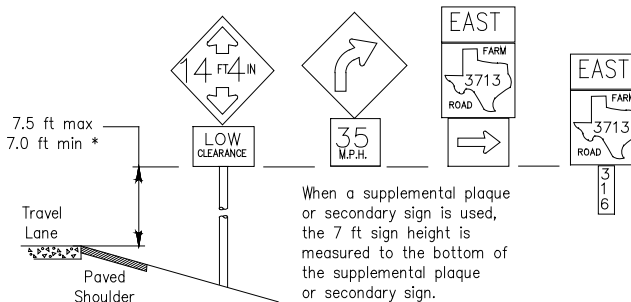
Bolts used to mount sign panels to the clamp are 5/16-18 UNC galvanized square head with nut, nylon washer, flat washer and lock washer. The bolt length is 1 inch for aluminum.

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.

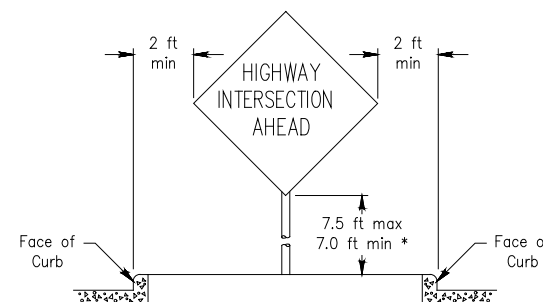
Sign clamps may be either the specific size clamp or the universal clamp.

Pipe Diameter	Approximate Bolt Length	
	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"

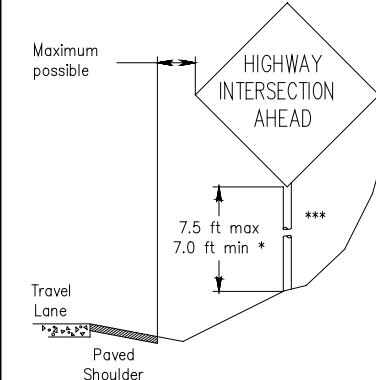
SIGNS WITH PLAQUES



CURB & GUTTER OR RAISED ISLAND



RESTRICTED RIGHT-OF-WAY (When 6 ft min. is not possible.)



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 slope.

* Signs shall be mounted using the following condition that results in the greatest sign elevation:

- a minimum of 7 to a maximum of 7.5 feet above the edge of the travel lane or
- 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 the Engineer.

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

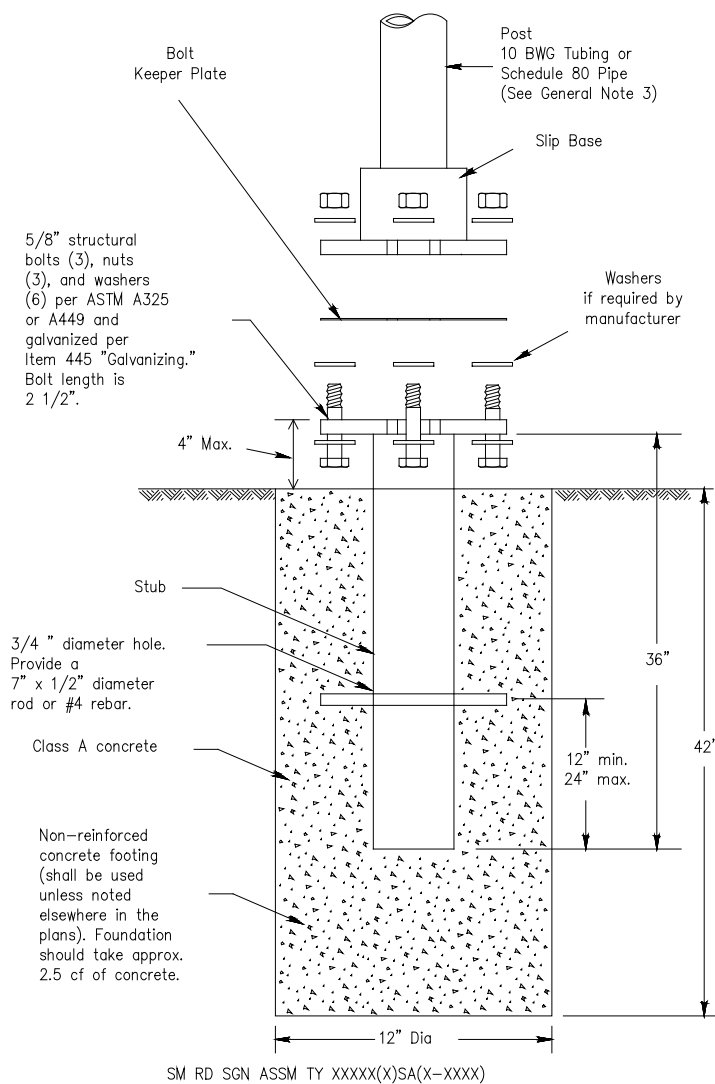
SIGN MOUNTING DETAILS SMALL ROADSIDE SIGNS GENERAL NOTES & DETAILS

SMD(GEN)-08

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TRIANGULAR SLIPBASE INSTALLATION GENERAL REQUIREMENTS

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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:

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

ASSEMBLY PROCEDURE

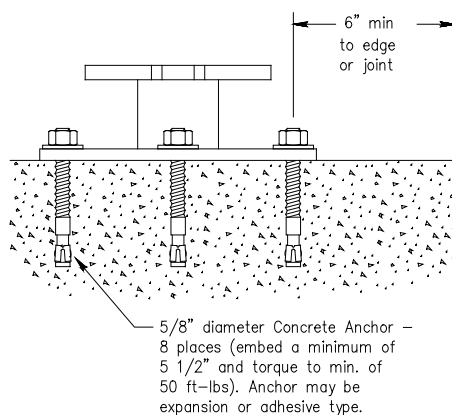
Foundation

- 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.
- 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.
- 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.
- Plumb the stub. Allow a minimum of 4 days to set, unless otherwise directed by the Engineer.
- The triangular slipbase system is multidirectional and is designed to release when struck from any direction.

Support

- 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 straight.
- 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.

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, "Epoxyies 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-weight concrete with a 5 1/2" minimum embedment, shall have a minimum allowable tension and shear of 3900 and 3100 psi, respectively.

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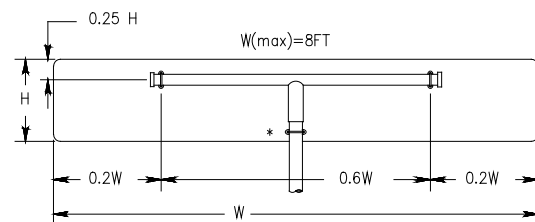
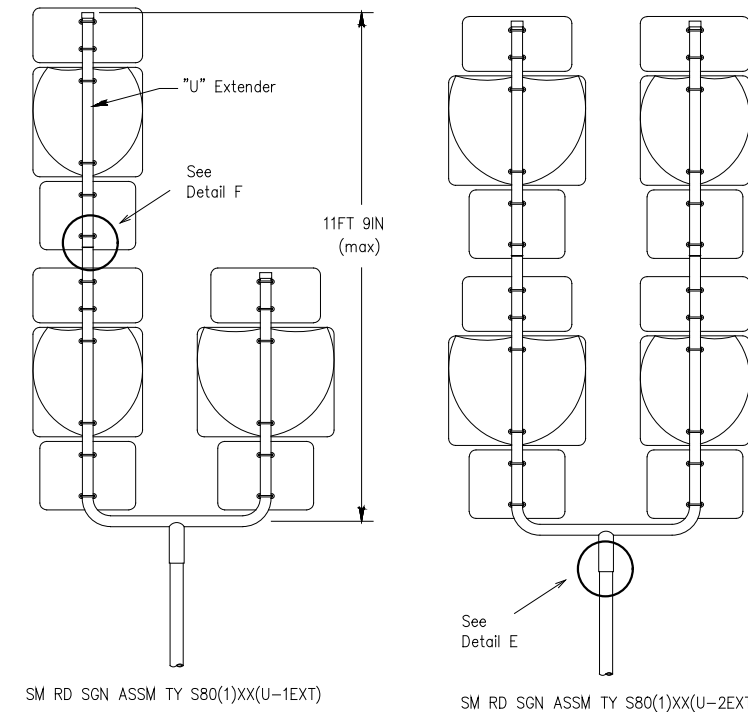
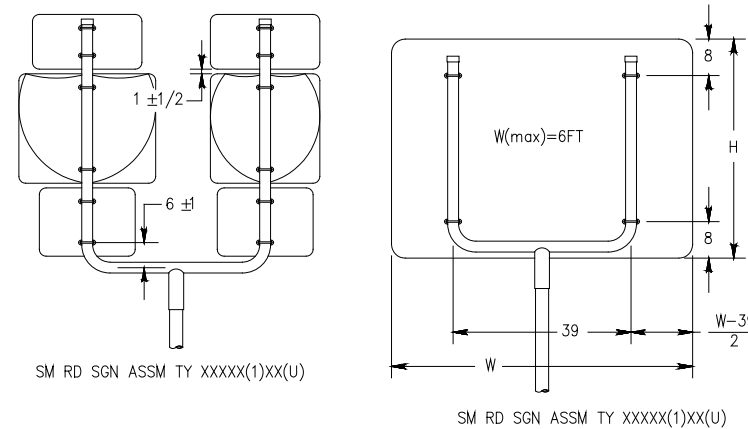
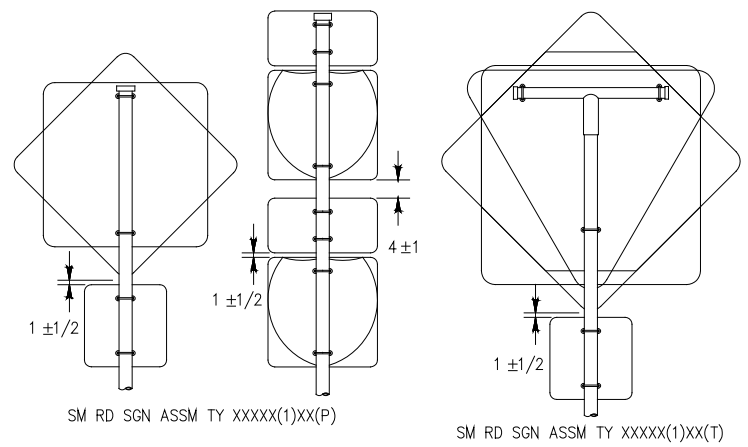
SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM

SMD(SLIP-1)-08

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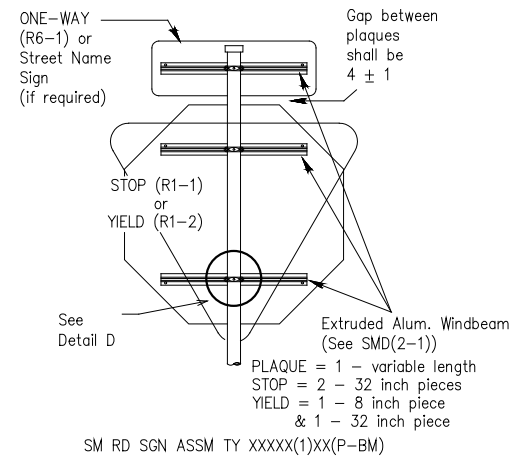
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DATE: FILE:

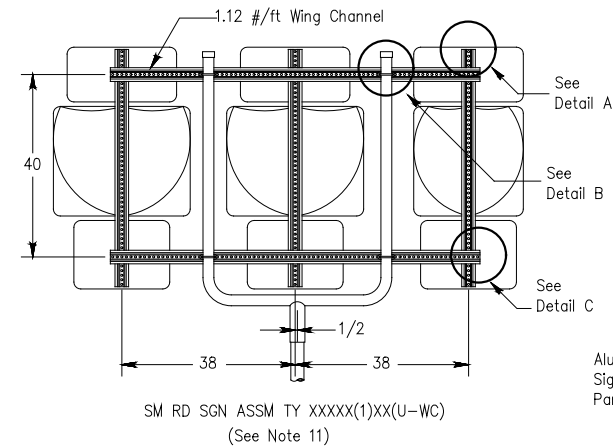


SM RD SGN ASSM TY XXXX(1)XX(T)
(* - See Note 12)

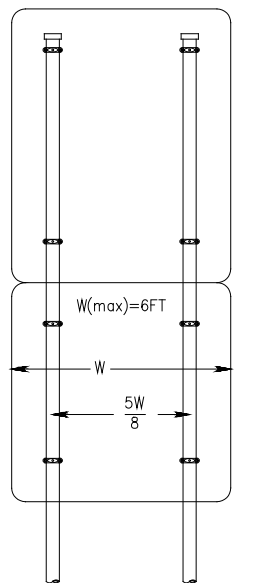
All dimensions are in english unless detailed otherwise.



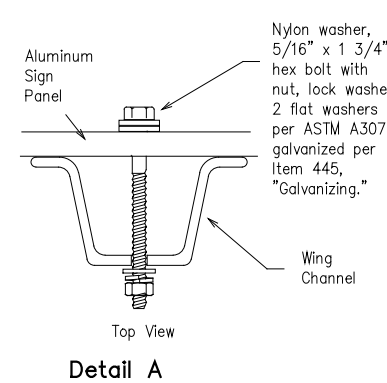
SM RD SGN ASSM TY XXXX(1)XX(P-BM)



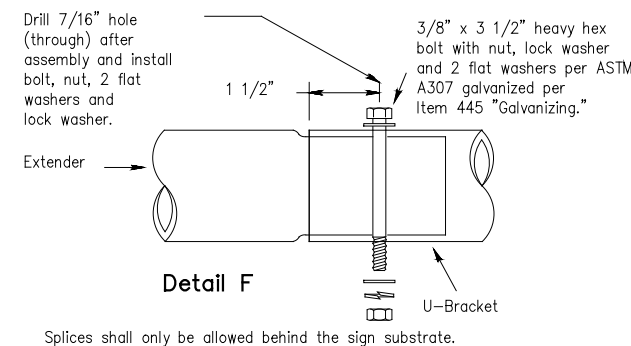
SM RD SGN ASSM TY XXXX(1)XX(U-WC)
(See Note 11)



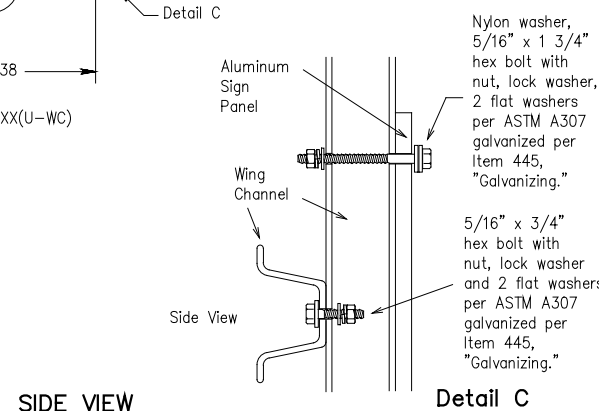
SM RD SGN ASSYM TY XXXX(2)XX(P)



Detail A

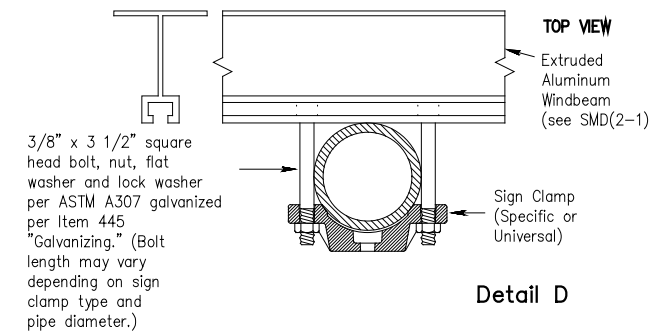


Detail F



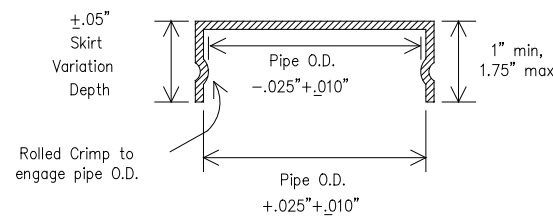
Detail C

SIDE VIEW



Detail D

FRICION CAP DETAIL



Friction caps may be manufactured from hot rolled or cold rolled steel sheets. The minimum sheet metal thickness shall be 24 gauge for all cap sizes.

The rim edges shall be reasonably straight and smooth. Caps shall be sized and formed in such a manner as to produce a drive-on friction fit and have no tendency to rock when seated on the pipe. The depth shall be sufficient to give positive protection against entrance of rainwater. They shall be free of sharp creases or indentations and show no evidence of metal fracture.

Caps shall have an electrodeposited coating of zinc in accordance with the requirements of ASTM B633 Class FE/ZN 8.

GENERAL NOTES:

- | 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.
- 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.
- 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."
- Additional route markers may be added vertically, provided the total sign area does not exceed the maximum allowable amount per Note 1.
- 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.
- Post open ends shall be fitted with Friction Caps.
- Sign blanks shall be the sizes and shapes shown on the plans.

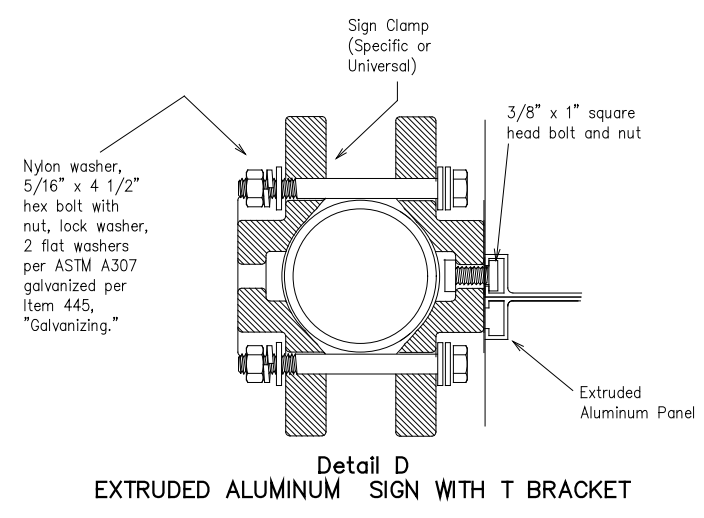
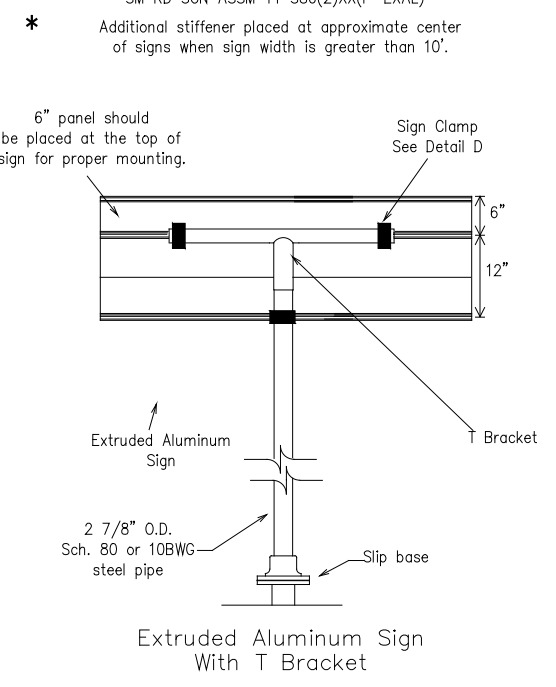
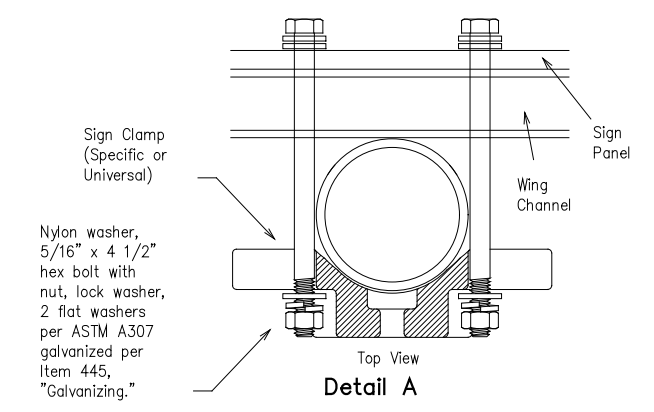
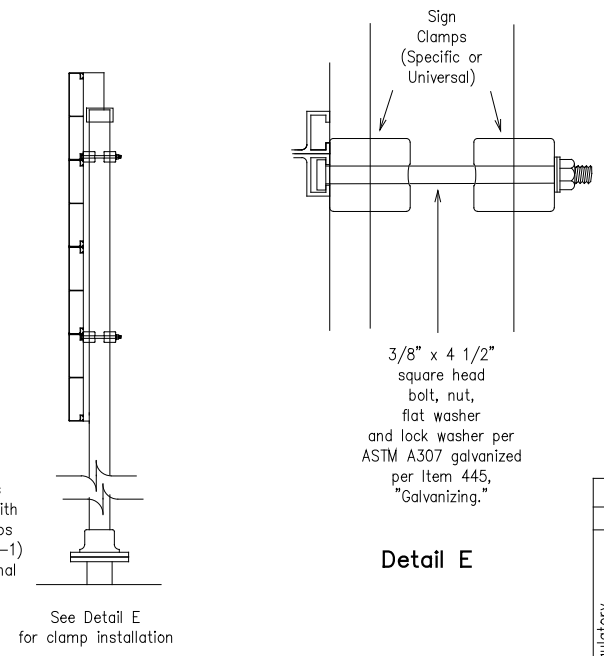
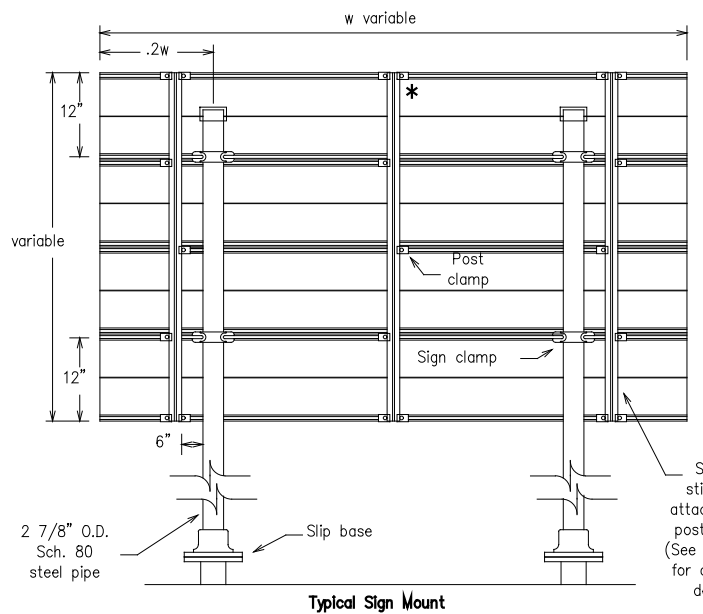
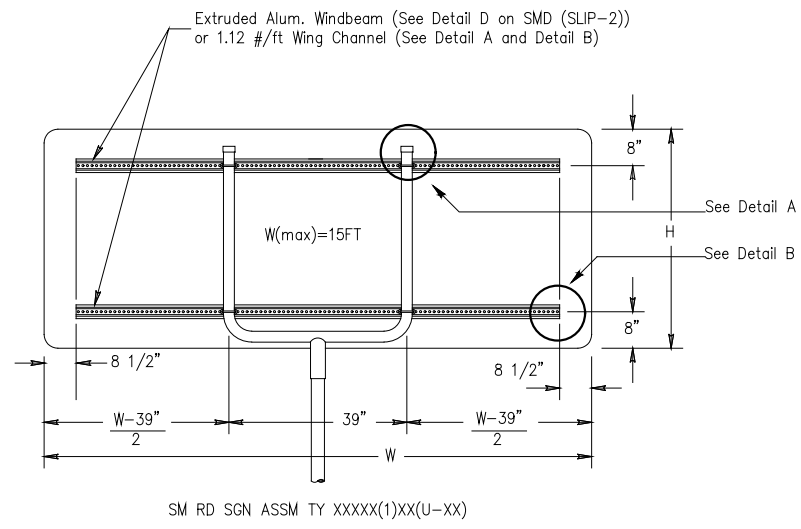
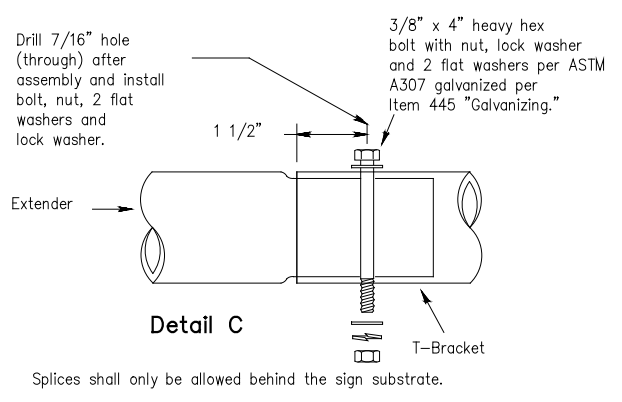
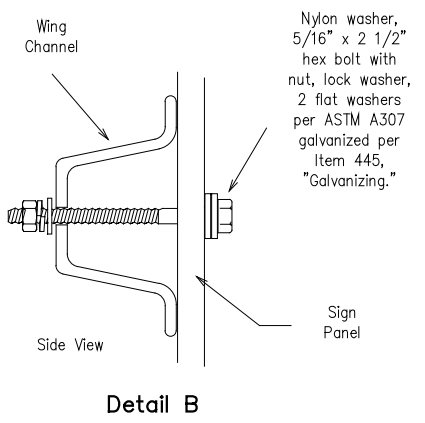
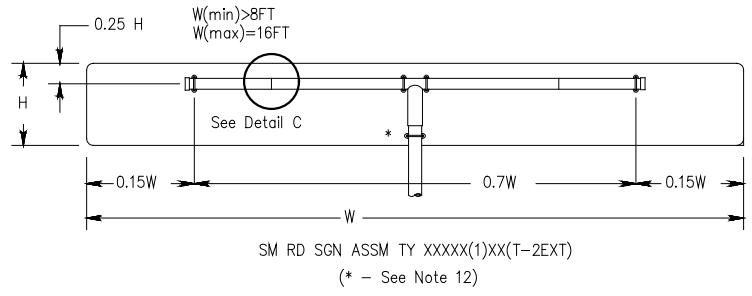
REQUIRED SUPPORT		
	SIGN DESCRIPTION	SUPPORT
Regulatory	48-inch STOP sign (R1-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	60-inch YIELD sign (R1-2)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	48x16-inch ONE-WAY sign (R6-1)	TY 10BWG(1)XX(T) TY 10BWG(1)XX(P-BM)
	36x48, 48x36, and 48x48-inch signs	TY 10BWG(1)XX(T)
	48x60-inch signs	TY S80(1)XX(T)
Warning	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)

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SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM
SMD(SLIP-2)-08

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GENERAL NOTES:

- | 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.
- 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.
- 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."
- Sign blanks shall be the sizes and shapes shown on the plans.
- 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.
- 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)

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

**SIGN MOUNTING DETAILS
SMALL ROADSIDE SIGNS
TRIANGULAR SLIPBASE SYSTEM**

SMD(SLIP-3)-08

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