

HISTORIC PRESERVATION COMMISSION

Marc Elrich
County Executive
Chair

Date: 9/10/2025

MEMORANDUM

TO: Rabbiah Sabbakhan

Department of Permitting Services

FROM: Dan Bruechert

Historic Preservation Section

Maryland-National Capital Park & Planning Commission

SUBJECT: Historic Area Work Permit # 1063867 REVISION- Bus Shelter Construction

The Montgomery County Historic Preservation Commission (HPC) has reviewed the attached applications for a Historic Area Work Permit (HAWP). This application was **approved** at the April 17, 2024 HPC meeting with revisions approved at the September 3, 2025 HPC meeting.

The HPC staff has reviewed and stamped the attached submission materials.

THE BUILDING PERMIT FOR THIS PROJECT SHALL BE ISSUED CONDITIONAL UPON ADHERENCE TO THE ABOVE APPROVED HAWP CONDITIONS AND MAY REQUIRE APPROVAL BY DPS OR ANOTHER LOCAL OFFICE BEFORE WORK CAN BEGIN.

Applicant: City of Takoma Park

Address: 6951 Carroll Ave., Takoma Park

This HAWP approval is subject to the general condition that the applicant will obtain all other applicable Montgomery County or local government agency permits. After the issuance of these permits, the applicant must contact this Historic Preservation Office if any changes to the approved plan are made. Once work is complete, the applicant will contact Dan Bruechert at 301-563-3400 or dan.bruechert@montgomeryplanning.org to schedule a follow-up site visit.





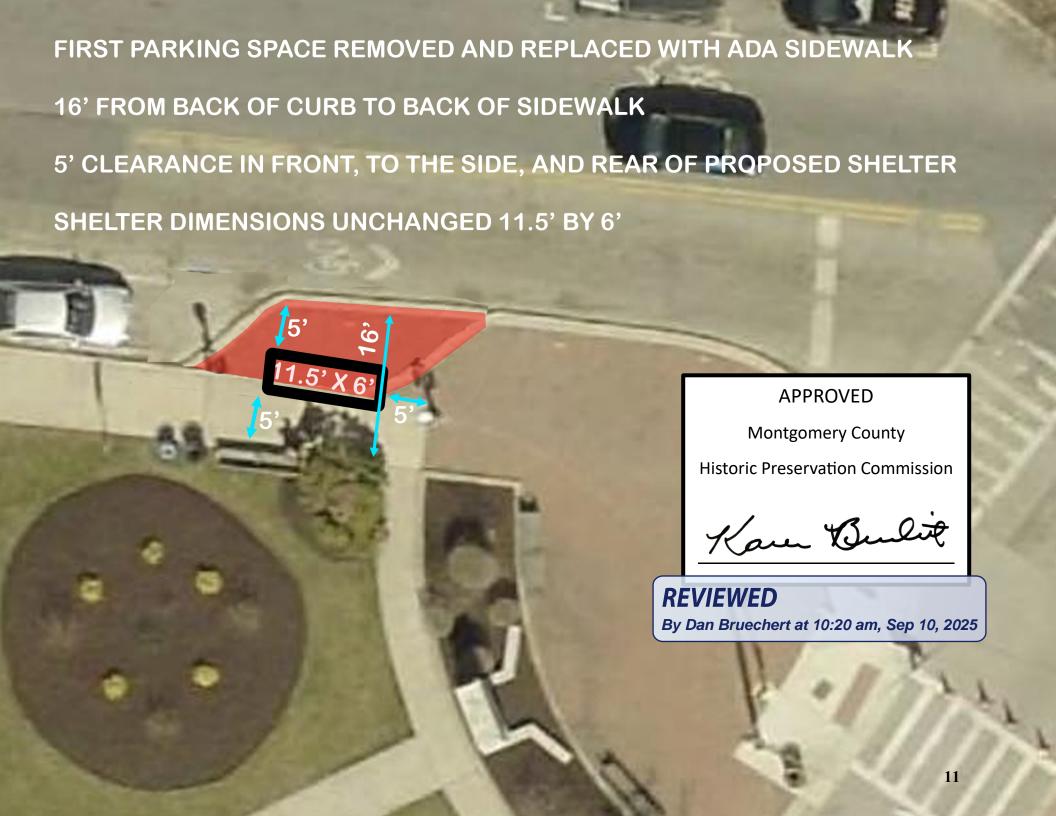
DATE ASSIGNED____ **APPLICATION FOR** HISTORIC AREA WORK PERMIT HISTORIC PRESERVATION COMMISSION 301.563.3400

FOR STAFF ONLY:

HAWP#__

APPLICANT:

Name:		E-ma	ail:		
Address:			City:		Zip:
Daytime Phone:			Tax /	Account	No.:
AGENT/CONTACT (if applicable):				
Name:			E-ma	ail:	
Address:			City:		Zip:
Daytime Phone:			Cont	ractor F	Registration No.:
LOCATION OF BUIL	LDING/PREMIS	E: MIHP # of Hist	toric Prop	perty	
map of the easeme Are other Planning (Conditional Use, Va supplemental infori Building Number: _	ant, and docume and/or Hearing ariance, Record I mation.	ntation from the Examiner Approv Plat, etc.?) If YES Street:	Easemerals / Rev	nt Holde	nt on the Property? If YES, include a er supporting this application. equired as part of this Application? ation on these reviews as
, ,					
TYPE OF WORK P for proposed wo be accepted for I New Constr Addition Demolition Grading/Exc	Montg	PPROVED omery County ervation Comm		to veri	fy that all supporting items plete Applications will not Shed/Garage/Accessory Structure Solar Tree removal/planting Window/Door Other:
I hereby certify th and accurate and agencies and here				ns review ondition	wed and approved by all necessary for the issuance of this permit.



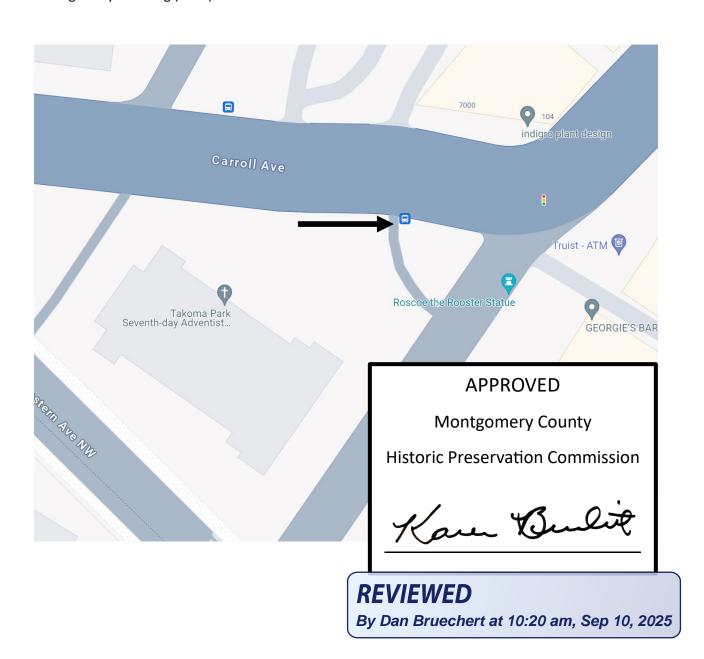
Installation of a Bus Shelter Intersection of MD-195 (Carroll Avenue) and Laurel Avenue Takoma Park, MD

Vicinity Map:

Laurel Avenue is a City street. All installation work will occur from Laurel Avenue, with no traffic disruption on MD-195 -- Carroll Avenue.

RideOn Stop ID: 20744

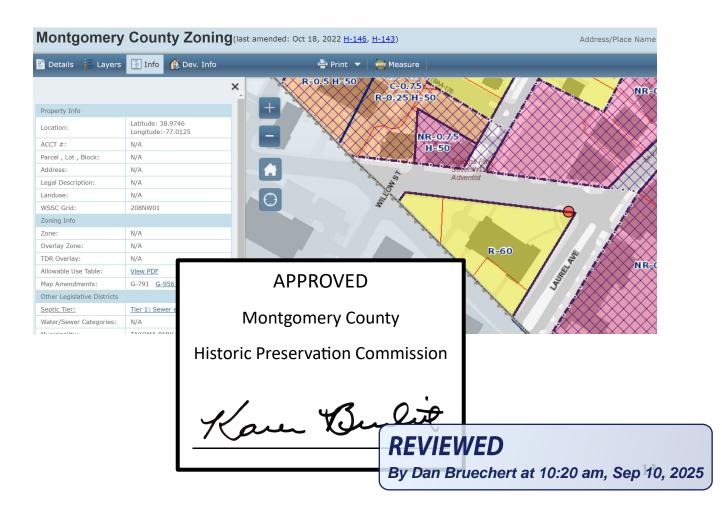
Average daily boarding (2023): 86



Installation of a Bus Shelter at the Intersection of MD-195 (Carroll Avenue) and Laurel Avenue Takoma Park, MD

Right-of-Way Map (Source: MCAtlas.org):







DURABILITY WITH DISTINCTION

INSTALLATION INSTRUCTIONS

9' BUS STOP SHELTER
WITH FLAT ADVERTISING BOX
& PERF PANELS
OPTIONAL FEATURES:
BENCH

APPROVED

Montgomery County

Historic Preservation Commission

REVIEWED

By Dan Bruechert at 10:20 am, Sep 10, 2025

COMPANY INC.

TRANSIT SHELTERS | STREET FURNITURE | DISPLAYS & DIRECTORIES | TRANSIT SOLAR LIGHTING 258 Mariah Circle, Corona, CA USA 92879-1751 | 800-339-6165 | 951-808-0081 | www.tolarmfg.com

ANCHORING INSTRUCTIONS AND SPECIFICATION TABLE



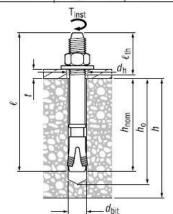
4.3.5 Kwik Bolt 3 Expansion Anchor

4.3.5.3 Technical Data

Table 1 - Kwik Bolt 3 Specifications1

Details		_	Bolt Size	in. (mm)		1/4 (6.4)			3/8 (9.5)		8	1/2 (12.7)	
d _{bit}	nomi	nal bit	diameter ²	in.		1/4			3/8			1/2	40
h _{min} /h _{nom} /h _{deep}	depth	of em	bedment	in. (mm)	1-1/8 (29)	2 (51)	3 (76)	1-5/8 (41)	2-1/2 (64)	3-1/2 (89)	2-1/4 (57)	3-1/2 (89)	4-3/4 (121)
h _o	minin hole d		andard/deep	in. (mm)	1-3/8 (35)	2-1/4 (57)	3-1/4 (83)	2 (51)	2-7/8 (73)	3-7/8 (89)	2-3/4 (70)	4 (102)	5-1/4 (133)
d _h	110	je clear n fixtur		in. (mm)		5/16 (8)			7/16 (11)			9/16 (14)	
T _{inst}	Norm weigi Light	ht &	Carbon Steel HDG	ft-lb (Nm)		4 (5)			20 (27)		6	40 (54)	
Recom- mended Installation	weigh	nt	Stainless Steel	ft-lb (Nm)		6 (8)			20 (27)			40 (54)	
Torque	Grou Filled Block		Carbon Steel	ft-lb (Nm)		4 (5)			15 (20)			25 (34)	
h r	nin. base	e mate	rial thickness	in.		3 inch	(76 mm) o	or 1.3 times	embedment	t, which eve	r number is	greater	
		C	arbon Steel			2900 lb 4,6			7200 lb 4,8			12400 lb4	
Bolt Fracture HDG			no offering		no offering		12400 lb ⁴						
Loud		St	tainless steel		10000	2900 lb ^{4,7}		9	7200 lb ^{4,7}			12400 lb 4	
Details	_	_	Bolt Size	in. (mm)		5/8 (15.9)			3/4 (19.1)			1 (25.4)	
disit	nomi	nal bit	diameter ²	in.		5/8			3/4			1	
h _{min} /h _{nom} /h _{deep}			andard/deep bedment	in. (mm)	2-3/4 (70)	4 (102)	5-1/2 (140)	3-1/4 (83)	4-3/4 (121)	6-1/2 ³ (165)	4-1/2 (114)	6 (152)	9 (229
h _o		num/st depth	andard/deep	in. (mm)	3-3/8 (86)	4-5/8 (117)	6-1/8 (156)	4 (102)	5-1/2 (140)	6-4/5 (173)	5-1/2 (140)	7 (178)	10 (254
dh	300000	ge clea in fixtu	Wilderson en	in. (mm)	~	11/16 (17)			13/16 (21)			1-1/8 (29)	
T _{inst} Normal weight Light		nt &	Carbon Steel HDG	ft-lb (Nm)	85 (115)		150 (203)		250 (339)				
Recom- mended Installation	weigh Cond	nt crete	Stainless Steel	ft-lb (Nm)		85 (115)			150 (203)			235 (319)	
Torque	Grou Filled Block		Carbon Steel	ft-lb (Nm)		65 (88)			120 (1663)			u u	
h r	nin. base	e mate	rial thickness	in.		3 inch	(76 mm) c	r 1.3 times	embedment	, which ever	r number is	greater	
<u> </u>	2000	C	arbon Steel		F	19600 lb4		- 2	28700 lb ^{4,8}	3	f _{ut} ≥8	8 ksi, f _y ≥7	75 ksi ⁵
Bolt Fracture Load			HDG		19600 lb4		28700 lb4			no offering			
LUau		S	tainless steel		1	21900 lb4		f _{ut≥} 7	6 ksi, f _v ≥ 6	34 ksi ⁵	f≥ 7	6 ksi, f _v ≥ 6	34 ksi5

- 1 See Kwik Bolt 3 Product Line Table in Section 4.5.3.3 for a full list and anchor length and thread length configurations.
- 2 Loads for Kwik Bolt 3 are applicable for both carbide drill bits (see Section 8.4.1) and matched tolerance Hilti DD-C diamond core bits in sizes ranging from 1/2 inch to 1 inch.
- 3 The deep embedment depth for stainless steel Kwik Bolt 3 anchors is 8 inch (203 mm).
- 4 Bolt fracture loads are determined by testing in a jig as part of product quality control. These values are not intended for design purposes.
- 5 Bolt strength specified by minimum tensile and yield strength. Bolt fracture load not applicable.
- 6 Bolt fracture load not applicable to carbon steel Countersunk Kwik Bolt 3. The tensile and yield strengths are, f_{ut} ≥ 105 ksi and f_y ≥ 90 ksi.
- 7 Bolt fracture load not applicable to stainless steel Countersunk Kwik Bolt 3. The tensile and yield strengths are, f_{ut} ≥ 90 ksi and f_y ≥ 76 ksi.
- 8 For 3/4 x 12, f_{ut} ≥ 88 ksi and f_y ≥ 75 ksi. Bolt fracture load not applicable.



226 Hitti, Inc. (US) 1-800-879-8000 | www.us.hitti.com | en español 1-800-879-5000 | Hitti (Canada) Corp. 1-800-363-4458 | www.ca.hitti.com | Product Technical Guide 2006

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Historic Preservation Commission

Kare Bulit

ROOF PANEL INSTALLATION

- 1. There is a film on both sides of the Lexan panel. Examine the panel and note which surface is to be faced externally. Remove film from both sides of Lexan panel. Install edge into groove as shown in Fig 1 (Page 5). Press the panel over the top and into groove on opposite side. There should be a 1/2" gap between panels. Press down firmly so the panel contacts the roof bow at its top.
- 2. See Fig 2 (Page 6). Place the pressure bands with the two rubber bulb seals over the center joints. There can be a short gap at either end. Use the TEKS screws #14 x 1 1/2"(5 per bow) to secure the pressure rib to the roof bow. The TEKS screw is self-drilling and tapping. A 3/8" nut driver with suitable power tool should be used.

PROCEDURE:

- 1. Install center screw first-be sure band is centered. Use #14 x 1 1/2" TEKS screw.
- 2. Install next screws down; use #14 x 1 1/2" TEKS screws.
- 3. Press band down and install bottom screws; Use #14 x 1 1/2" TEKS screws.
- 3. See Fig 3 (Page 7). Install acrylic end panel in place, and slip the 55" long rubber J-channel over one edge of the curved 3" wide band. This band is used at each end of the roof. The edge of the band without the J-channel will be aligned to the outer edge of the last bow and on top of the 1/4" square bead. Use 5 of the TEKS screws per each of these bands.

PROCEDURE:

- 1. Install center screw first-be sure band is centered. Use #14 x 1 1/2" TEKS screw.
- 2. Install next screws down; use #14 x 1 1/2" TEKS screws.
- 3. Press band down and install bottom screws, use #14 x 1 1/2" TEKS screws.

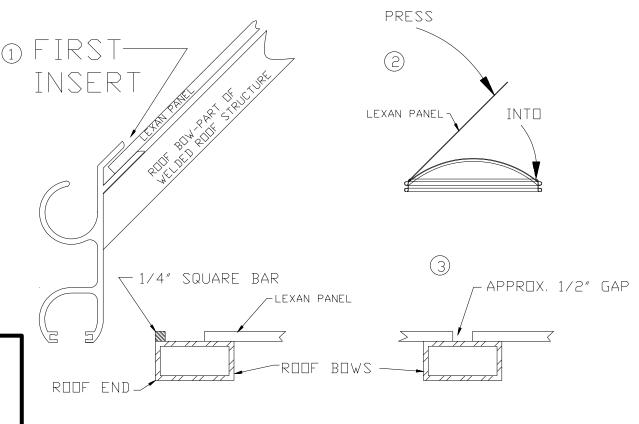
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BEFORE REMOVING PROTECTIVE FILMS
FROM LEXAN PANEL DETERMINE WHICH
SURFACE IS TO BE EXPOSED TO THE OUTSIDE



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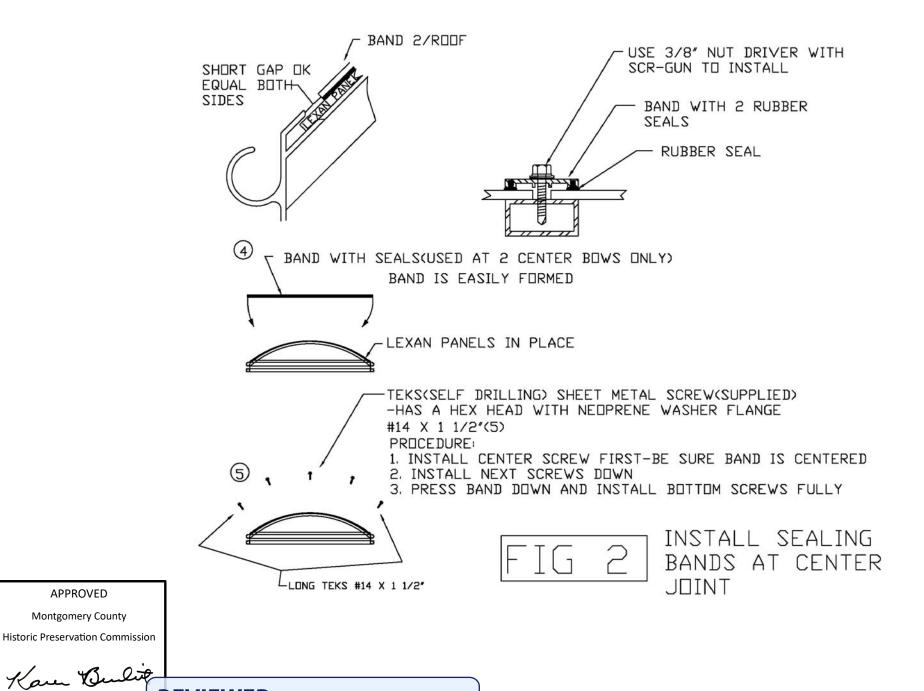
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te\Fig1.dwg, Model, 02/28/2003 08:28:14 A

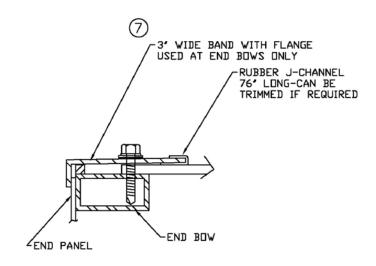
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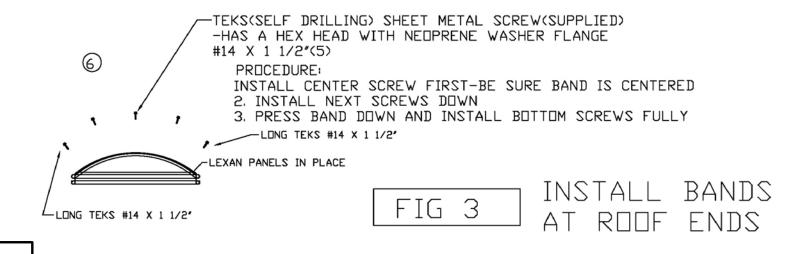


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By Dan Bruechert at 10:20 am, Sep 10, 2025

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AD-BOX INSTALLATION

NOTE: This sign is intended to be installed in accordance with the requirements of Article 600 of the National Electrical Code and/or other applicable local codes. This includes proper grounding and bonding of the sign.

- 1. Open the door using the supplied tamperproof drive tip. Remove the fluorescent lamps by lifting up against the springs. Remove the bottom cover & the cover along the side below the breaker box.
- 2. Provide 120 volt 60 cycle (390 watts) electrical power under the ad box see pages 9, 10 & 11. The electrical power may be routed up through either shoe of ad box or a separate hole may be drilled in ad box bottom.
- 3. Using the Elevation drawing as a guide, place the advertising ad box at the desired location. Note: Hinges are toward the back of the shelter. Insert the shoes into the round pipe extending from bottom of the ad box. These 2 shoes and the 2 shoes at the opposite end of the shelter can be slid up or down for height adjustment. If the grade is level, the ad box shoes should extend down approximately 8" from the ad box bottom. If the grade is higher at the opposite end of the shelter the 8" dimension must be increased accordingly.
- 4. Support and level the ad box at the desired height. The two ad box shoes have 9\16 diameter holes. Using these holes as guides, drill 1/2" diameter holes through the shoes. Install the 1/2-13 x 4" hex head bolt and 1/2-13 locking hex nut at each shoe.
- 5. Mark the concrete using the holes in the two shoes to locate the eight anchors. Move the ad box to allow drilling of the concrete. Refer to anchoring Spec Sheet for anchoring instructions.

<u>IMPORTANT:</u> Place shim material under a corner of the shoe if the ground is uneven. Also place shim material under a corner of the shoe if the roof has been leveled and the shoe is not flat to sidewalk. Do not torque down the anchors so that the advertising box is distorted.

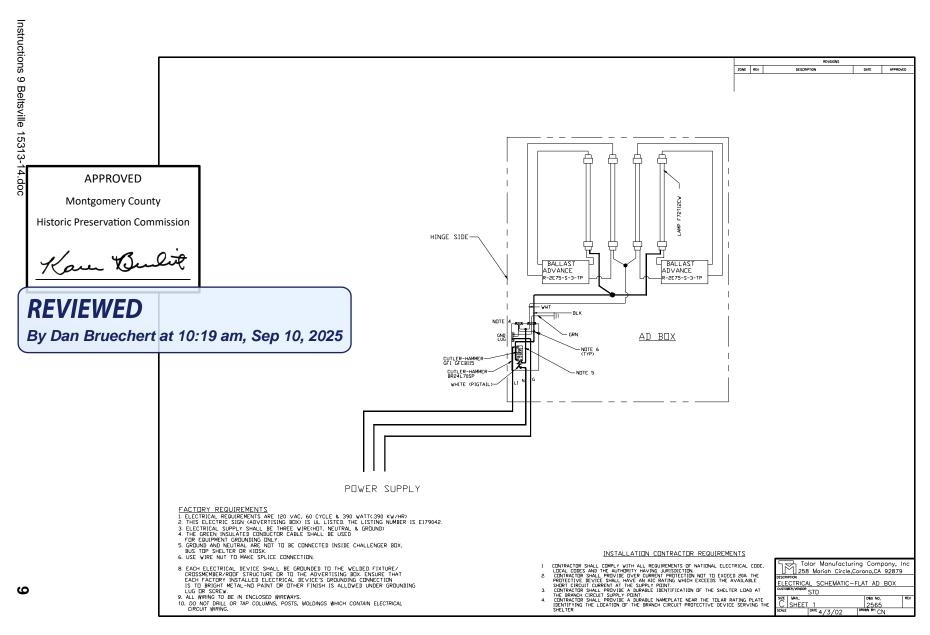
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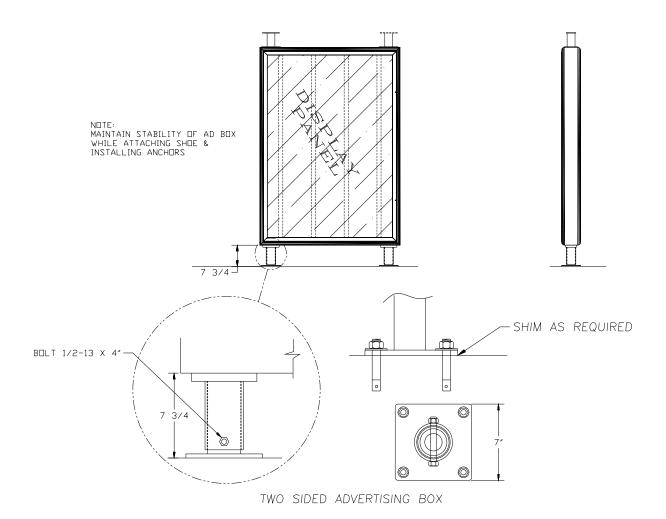
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9' SHELTER W/FLAT AD BOX

DETAIL A

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ROOF INSTALLATION SEE PAGE 13

- 1. Slide two shoes into the two support posts that are to be installed opposite the ad box.
- 2. Raise the roof over the ad box. Position the Dual post assembly under the crossbeam at the opposite end.
- 3. Insert and tighten 4 (four) 3/8 16 X 1 hex head bolts, 3/8 lock washers, and 3/8 flatwashers at the top of each post and the short pipe brackets of the ad box.
- 4. Level the roof by placing a carpenter's level on the roof's gutter on all sides then, through the 9/16" diameter holes at the bottom of each support post, drill a 1/2" diameter hole through the pipe of the shoes. It is not necessary to use the smaller 1/4" diameter holes. Some installers use a 3/4" long U-drive rivet in the small holes temporarily.
- 5. Install the 1/2 13 X 4 hex head bolt and 1/2 13 locking hex nut at each shoe.
- 6. Plumb the support posts. The dimension between the posts must be 20 5/8" inside to inside. Check this dimension at the post bottom before marking and drilling holes for the anchors. Mark hole locations and refer to anchoring specifications.

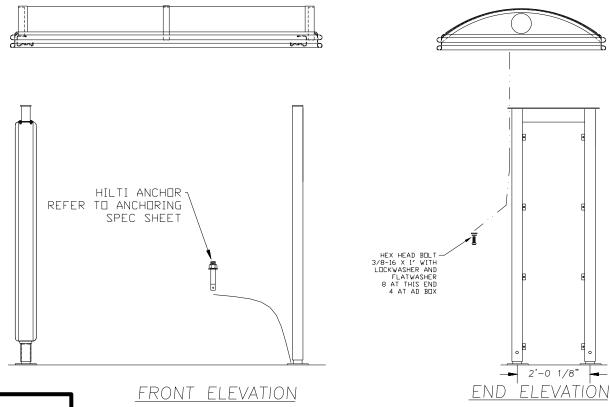
<u>IMPORTANT:</u> Apply shim under shoes (where applicable) if mounting location is uneven, or for leveling purpose. Do not over-tighten anchors; this may cause distortion on the advertisement box.

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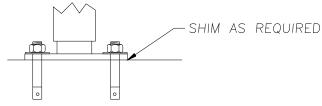


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ROOF INSTALLATION (TYPICAL)

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REAR SCREEN INSTALLATION

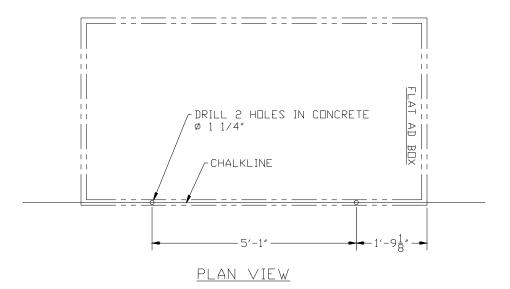
- 1. See page 15 and the Elevation Drawing page 3. Drop a plumb line from the rear screen insertion groove of the roof perimeter. Mark the concrete near both ends of the roof and snap a chalk line. The rear screen support/anchor assemblies will be inserted on this line. Mark the chalk line at the intervals shown on the drawings. These marks will be the proper spacing for the support/anchor assemblies. The first support/anchor assembly at either end must be at least 4" in from end of roof.
- 2. Drill two (2) 1 1/4" diameter holes into the concrete on the marks with a masonry drill. These holes should be at least 8" deep and may penetrate into the grade below the concrete. This depth is required to allow clearance for the threaded adjusting rod. Clean out holes.
- 3. Place the bottom screen support/anchor assemblies into the holes. The top surface of the anchor itself should be flush to concrete or 1/2" below The total height of the screen is 79". Measure from inside the screen insertion groove to the screen support anchor. Rotate the threaded rod inside the anchor to adjust height. Tighten the 3/4-10 hexnut to expand and secure anchor. Slide screen up into screen insertion groove and onto bottom screen support/anchor assemblies(separate clip can be slid off). Replace clip.

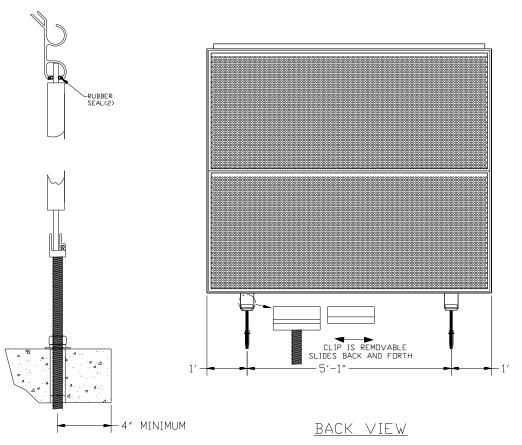
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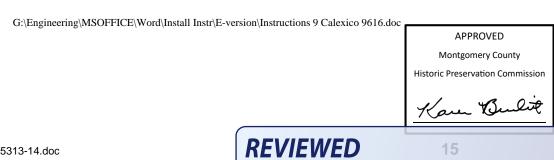
Montgomery County

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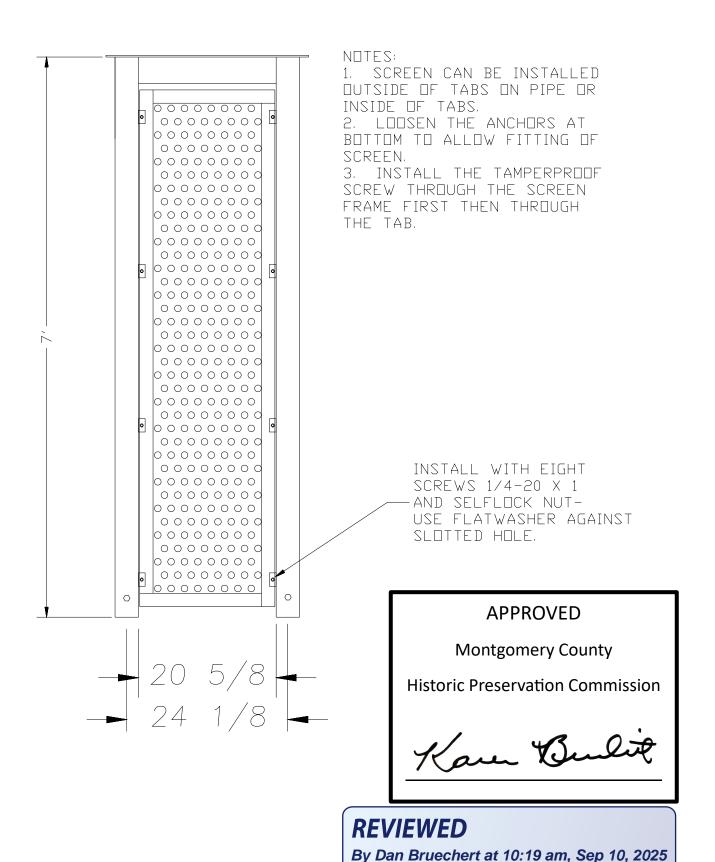
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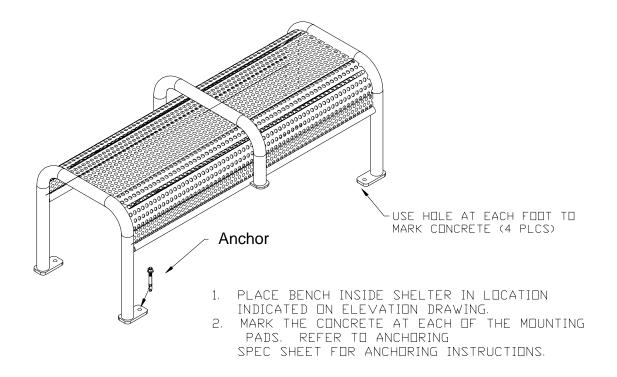




END SCREEN INSTALLATION



BENCH INSTALLATION



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Sup-R-Stud®



Sup-R-Stud*

Available Materials

- · Carbon steel, zinc plated
- · Carbon steel, mechanically galvanized
- Grade 5, yellow di-chromated
- 303/304 stainless steel
- · 316 stainless steel

Features/Advantages

- Required hole diameter equals anchor diameter
- · Excellent for setting immediately
- · Can be loaded immediately
- · Can be set in a bottomless hole
- · Simple installation
- · Nut and washer supplied in package
- ROHS compliant except for Grade 5

Concerns

- · Do not use in brick or block
- · Not advised for use where vibratory loads are high
- Oversize holes are detrimental and will reduce load performance

Approvals/Listings

- G.S.A. Spec FF-S-325C, Group II, Type 4, Class 1
- UL listed 3/8"-1" (except 7/8")
- FM 3/8", 1/2", 3/4"
- · Contact customer service for approvals / listings for state D.O.T.'s





- 1 Drill hole 1/2" to 1" deeper than anchor embedment.
- 2 Clean hole of debris.
- 3 With nut threaded past the end of stud, hammer into position.
- 4 Tighten finger tight plus an additional 3-5 turns with wrench.
- 5 If anchor spins in hole, force anchor up using screwdriver until clip binds into concrete.











NOTE: The load values below are for all lengths of a given diameter capable of reaching the specified embedment.

		2000 P.S.I.	4000 P.S.I.	
Diameter- Threads	Embedment	Tension	Tension	Shear
1/4" - 20	1 1/8"	1,173	1,015	1,472
	2 1/4"	2,573	2,711	
3/8" - 16	1 5/8"	2,289	2,367	3,151
	3 3/8"	3,556	5,203	
1/2" - 13	2 1/4"	4,120	5,068	6,828
	4 1/2"	4,608	5,772	
5/8" - 11	2 3/4*	5,486	5,556	9,659
	5 5/8"	6,957	9,294	
3/4" - 10	3 3/8"	9,267	11,975	15,126
	6 3/4"	13,278	16,201	
7/8" - 9	4"	9,746	13,902	21,574
	8"	14,378	20,288	
1"-8	4 1/2"	10,226	15,829	28,023
	9"	15,479	24,375	
1 1/4" - 7	6 1/2"	14,720	23,090	33,000

Anchor Spacing / Edge Distance

Anchor Diameter	Min. Anchor Spacing *	Min. Edge Distance *
1/4"	2 1/2"	1 1/4"
3/8"	3 3/4"	1 7/8"
1/2"	5*	2 1/2"
5/8"	6 1/4"	3 1/8"
3/4"	7 1/2"	3 3/8"
7/8"	8 3/4"	4 3/8"
1"	10"	5"
1 1/4"	12 1/2"	6 1/4"

^{*} To obtain 100% load as published

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