



MAY 2024

Transit Shelter Program



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TABLE OF CONTENTS

BC Transit Shelter Program

Preface.....	3
Background.....	3
The New Standards – BC Transit Shelter Designs.....	4
Shelter Purchase Options.....	5
1. Shared Provincial Funding.....	5
2. Direct Purchase.....	6
Application Process – Provincial Funding.....	7
Selection Criteria.....	7
Order Quantities.....	7
Additional Costs.....	8
Spare Parts – All Purchase Types.....	8
Infrastructure and Maintenance.....	9
BC Transit Shelters Overview of T and E Series Types and Pricing.....	10
BC Transit Shelters – Optional Add-ons.....	11
Appendix A: Application & Approval Process.....	12
Sample Bus Shelter Request Form.....	13
Appendix B: Additional Costs.....	14
Appendix C: Travel Rate Price.....	15
Travel Rate Zone Matrix.....	16
Appendix D: Spare Parts Prices.....	17
Appendix E: Sample Concrete Pad Drawings.....	18

Preface

BC Transit is pleased to provide an updated overview of bus stop shelter designs for use around the province. The design concepts were created to standardize the look, feel and functionality of bus stop amenities while improving the transit experience for customers.

Simultaneous with the implementation of shelter design standardization, BC Transit introduced a capital upgrade funding program to assist municipalities in acquiring these shelters. This funding program has been instrumental in facilitating the installation of more than 500 standardized shelters since 2010.

Background

Bus stops are the access point for every customer using BC Transit service. While they can be a positive feature of transit travel, they are often cited as a barrier to transit use due to poor quality shelters, inadequate lighting or other design and infrastructure characteristics. Market analysis has shown shelters and improvements at bus stops were among the top five enhancements needed to encourage new riders to transit who are currently using other modes of travel.

Feedback from municipalities across BC have indicated a desire for a standardized design and provincial procurement strategy. BC Transit embarked on an initiative to examine the existing bus stop infrastructure and shelter configurations around the province. Historically the selection of shelter design and functionality has been led by the municipality for which the service is being provided. As such, a broad variety of manufacturers and designs have been utilized, and no set standardization methodology or procurement strategy employed (Figure 1).



Figure 1: Examples of existing shelter diversity

This program provides municipalities with access to capital funding in order to purchase standardized shelters for use in their communities. The objectives are to provide improved amenities to customers, reduce procurement and ongoing maintenance costs incurred by municipalities, and improve overall ridership levels.

The New Standards

BC TRANSIT SHELTER DESIGNS

As the bus stop shelter program has grown, feedback received from the participating municipalities, installation crews and manufacturers has resulted in further shelter design improvements such as more vandal resistant perforated mesh and harsh weather shelter designs.

Shelter designs feature modularity for future expansion and energy efficient LED grid and solar powered lighting options and many more.

Shelter designs are classified by “Type” based on the expected number of users and application:

- **Type 1** – bus stop upgrades
- **Type 2** – low to medium passenger boardings per weekday (10-20)
- **Type 3** – moderate to high passenger boardings per weekday (21-200)
- **Type 4** – park and rides (less than 100 stalls), small transit exchanges, stops with high levels of passenger boardings per weekday (400+)
- **Type 5** – rapid bus, tram stations

All BC Transit shelters have modular components that allow for the overall length of the shelters to be expanded or contracted post-production to accommodate and meet ridership capacity unique to each shelter location. This modular design features a cantilevered structural roof design, allowing you to choose side panels or additional back panels.

Standard Design Highlights

- Perforated back & side walls
- Mechanically sealed roof system
- Cantilevered structural design
- Corrosion and vandal resistant design
- Wood and timber architectural accents
- Designed and engineered to exceed wind, snow, and seismic loads throughout B.C.



Figure 2: BC Transit Type based shelters in the field



Shelter Purchase Options

Municipalities interested in purchasing one of the BC Transit standard shelter designs can do so in one of the following ways:

SHARED PROVINCIAL FUNDING

1. Lump Sum Contribution

Municipalities can choose to purchase via a lump sum payment to BC Transit upon completion of installation. As per the provincial funding model, municipalities are responsible for a percentage of the total cost of the shelter(s) as per the standard cost splitting model for their conventional service.

Federal funding has been secured to help further lower the capital cost of new bus stop amenities. The program is jointly funded by the Federal and Provincial Government under the Investing in Canada Infrastructure Program (ICIP). Availability of this funding depends on the level of participation in the program.

If the shelter request has been approved, the municipality will receive a contract from BC Transit confirming the locations, responsibilities of each party and the estimated lump sum total, exclusive of: taxes, additional packaging and freight charges to their location, allowances for installation crews, shelter storage fees, or BC Transit program management costs. Upon return of a signed copy of this contract, BC Transit will place the orders.

Following completion of all shelter installations in the requesting municipality, BC Transit will invoice for the agreed portion of the costs. Any costs incurred that are not covered by the shelter program will be discussed prior to being incurred.

2. Financing through Addendum to AOA

If the municipality requests to access funding via an addendum to their Annual Operating Agreement (AOA), BC Transit will recover the municipal portion of the capital funding through an annual charge back of the debt service costs over the useful life of the asset. Debt service charges will begin in the month that the asset is placed in active service.

The estimated financing costs will be outlined to the municipality in the contract confirming approval of shelter request. The estimate will be exclusive of taxes, additional packaging and freight charges to your location, allowances for installation crews, shelter storage fees, or BC Transit program management costs.

MUNICIPALITY FUNDED PURCHASE

3. Direct Purchase

Municipalities that would prefer to purchase any of the standardized shelter designs directly without cost sharing, can access BC Transit's negotiated standing offer pricing via direct purchase orders. Developers and regions not identified in an active AOA are eligible to purchase shelters through the program but are not eligible for cost sharing. These purchases will be managed by BC Transit and 100% of all costs will be billed to the requestor.

Municipalities are strongly encouraged to consult with BC Transit prior to engaging in the planned installation of any new transit infrastructure in their communities, to ensure that there are no conflicts with possible service changes, scheduling, route changes or operational and safety concerns. BC Transit recommends that the bus shelter approval process be followed in the same manner as for shelters being purchased under the provincial cost sharing program.

Application Process for Capital Funding

Funding for the BC Transit Bus Stop Shelter Program is limited and funds will be allocated based on a first come first served basis while ensuring equity across the province. All requests for shared funding purchases will be reviewed by BC Transit based on internal selection criteria prior to approval and prioritization of locations may be required if demand exceeds the annual budgeted provincial funding amount for any given year.

Municipalities are requested to follow the application process as indicated in Appendix A – Application Process.

A quick link to the online application form can be located on each municipality web page which is then submitted to BC Transit via the online portal. Using Victoria as an example:

<https://www.bctransit.com/victoria/transit-future/corporate-infrastructure-initiatives/transit-shelters>

SELECTION CRITERIA

BC Transit will place all applications through a series of selection criteria to ensure that the best utilization of the shelter is achieved by the municipality, and the local transit network. The selection criteria used to assess any proposed shelter installation location includes:

- Number of passenger boardings per weekday (where data is available)
- Operational planning network plans
- Long term strategic planning network plans
- Safety of location in terms of passengers, operators, and general traffic
- Historical or present operation concerns
- Available funding
- Initial site survey details

BC Transit encourages the participation from all municipalities in integrating the BC Transit standardized designs into the local networks wherever possible. In the rare instance where a municipality has an application reviewed and subsequently denied by BC Transit based on the selection criteria, the municipality is invited to discuss the decision with BC Transit directly. The intent is to determine if any unique circumstances exist which would warrant the approval of the location.

Applications for shelters on Ministry of Transportation and Infrastructure (MoTI) Right of Way (ROW) will be denied. The provincial government has a program intended to address these locations. If your desired bus stop is on a MOTI ROW, you are encouraged to apply for funding from the Minor Betterments Program. More information can be found here:

<https://www.tranbc.ca/tag/transit-minor-betterments-program/>

ORDER QUANTITIES

Any approved orders that meet or exceed the selected manufacturer's minimum order quantities (MOQ) will be processed under normal stated manufacturer lead times. If shelter MOQ's are not met by one individual order, this order will be held for consolidation with additional orders from across the province until such time as the MOQ quantity is reached . Once orders are submitted and finalized with the manufacturer(s), delivery dates will be determined and installation schedules will be negotiated.

Additional Costs

Breakdown of additional fees will apply and will also be estimated in your contract. These fees are cost shared with the municipality. See Appendix B—‘Additional Costs’ and Appendix C —‘Travel Rate Prices.’

BC TRANSIT OWNED ASSETS

Under the capital update program, the bus shelters are owned by BC Transit as assets in order to facilitate the capitalization of costs and allow for cost sharing with participants.

Cost sharing for shelter purchases under the Bus Stop Program will follow the standard contribution agreement for capital projects.

The capital costs for the shelters will be split between the Local Government Partner and the Province at the rates set out by the cost sharing models in each system’s Annual Operating Agreement (AOA). Through ICIP, BC Transit applies for Federal funding, which may reduce the Local share of eligible costs to 20%. Please contact newshelterprogram@bctransit.com for more details.

BC Transit will offer any assistance required in the form of technical clarification, estimating, presentation materials or personnel to municipalities if specific Council approvals are required to proceed with purchase and implementation.

Spare Parts – All Purchase Types

As part of the capital program, BC Transit has negotiated fixed pricing with the manufacturer on spare parts and an agreement for them to hold limited stock of replacement parts at the manufacture’s location for a maximum of five years after installation. These are available for purchase by any municipality utilizing the standard shelter designs, regardless of purchase method.

Any municipality requiring spare parts for maintenance work must request these directly from the supplier. BC Transit will not be stocking replacement parts for the shelter designs at any of BC Transit’s facilities.

A list of spare parts and price list can be found in Appendix D.

Infrastructure & Maintenance

The municipality is responsible for any civil and electrical work required to prepare a site for shelter installation. This includes the funding and construction of any infrastructure such as, but not limited to, bus pads or engineered foundations, pullouts, sidewalk construction, and electrical grid connections where required.

Municipalities, through their acceptance and willing participation in this program, agree to maintain the BC Transit shelters in accordance with standard industry practice. Solar powered shelters require the roof solar panels be regularly cleaned to ensure full system functionality and maintain the solar powered lighting warranty. Failure to properly maintain the solar panels will lead to premature lighting failure and greatly reduced battery life. This maintenance, funded 100% by the municipality includes (but is not limited to) the following regular maintenance items:

- Removal of snow and ice when required
- Removal of garbage
- Prompt removal of graffiti
- General cleaning (power washing) of structure on a regular basis
- Soft clean solar roof panels and remove debris monthly
- Monitoring and replacement of damaged components in a timely manner
- Proper maintenance of solar batteries





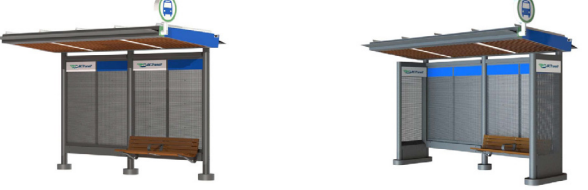


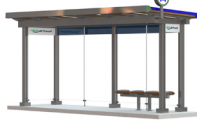


The municipality, through the acceptance and willing participation in the program, accepts the responsibility for the maintenance and care of these assets as indicated above. Failure to maintain, repair, and keep in good order may impair the ability for the municipality to apply for future shelter funding.

PREPARING YOUR SITE FOR INSTALLATION

Each municipality is responsible for ensuring that the site is fully ready for installation on the scheduled date. To help municipalities with the process please contact newshelterprogram@bctransit.com and a guide can be supplied for tips on how to prepare your site. If the site is not ready on the installation date, additional costs will apply and may impact municipalities' eligibility for future shelter purchases.

BC Transit Shelters Overview of T and E-Series Types and Pricing

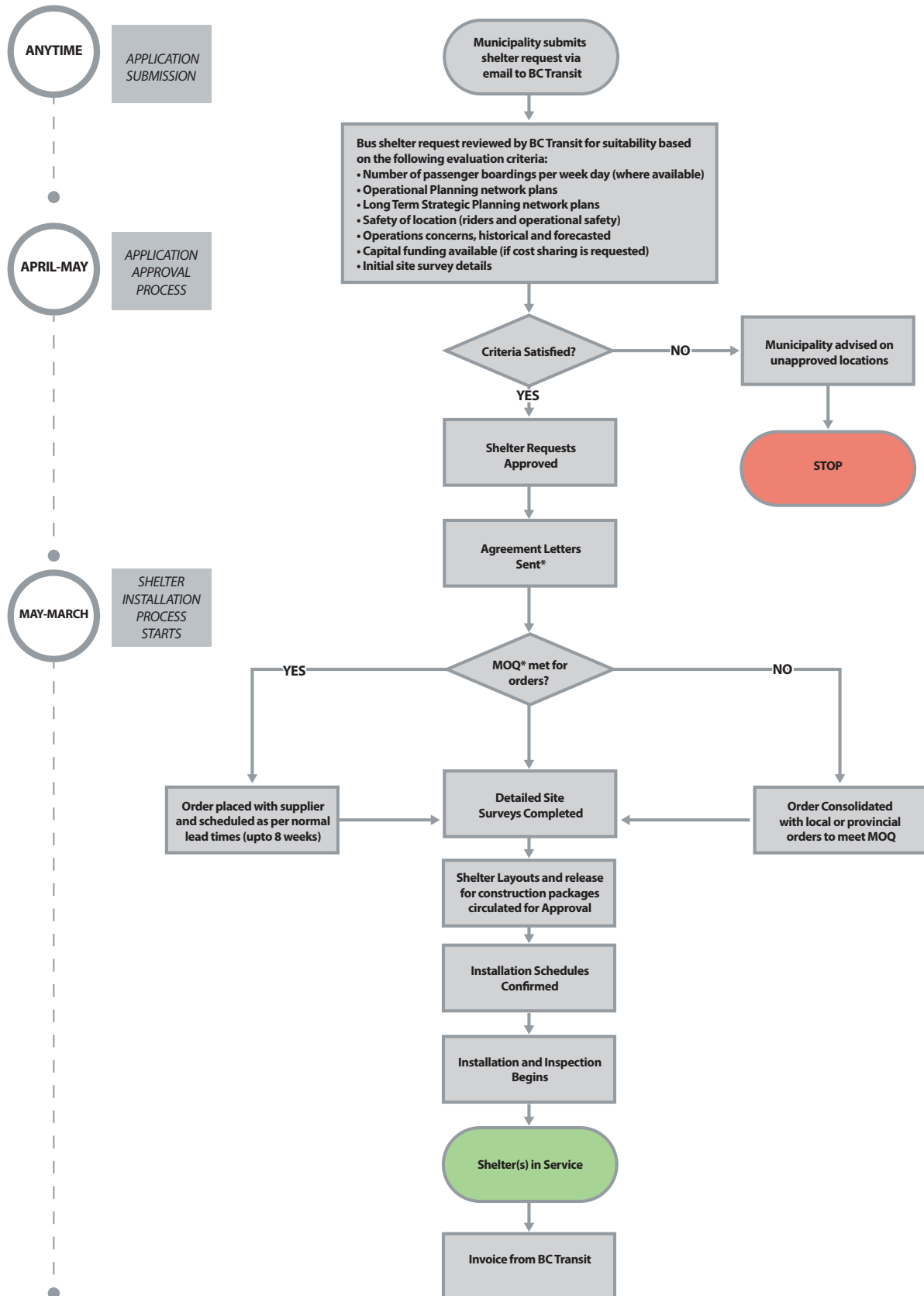
Typical BASE costs* for each type of shelter (excludes any applicable taxes, CPI (consumer price index), additional variable costs incurred for installation such as ferry and travel costs or add-on's such as site surveys, BC Transit program management costs, traffic control, and permitting fees). *Refer to Appendix B for additional costs, Appendix C for travel rates and Appendix E for shelter footprint sizes.

SHELTER TYPE				
<p>TYPE 1: Bus stop upgrades</p> <p>Where to use:</p> <ul style="list-style-type: none"> Locations that require a small upgrade or where shelters are not practical <p>Included: Vandal and weather resistant wood finish on bench; Option for a bench with a back rest or ID pole mounted seat (1 or 2 seater) Pairs nicely with a vandal resistant garbage can.</p> <p>**Excluded: Price excludes taxes, additional installation and travel costs. See pages 14 and 15.</p>	 <p>Free standing bench with back rest or ID pole mounted seat with 1 or 2 seater(price varies).</p>		<p>SIGNATURE SERIES</p> <p>Where to use:</p> <ul style="list-style-type: none"> Bus stops with average daily ridership of 20-200 passengers <p>Included: Glass wall design with a glass roof; 2 upper side panel inserts with BC Transit logo, two person wooden bench and an unlit system icon. Prices referenced are for installation of the basic model with no lighting.</p> <p>**Excluded: Price excludes taxes, additional installation and travel costs. See pages 14 and 15.</p>	 <p>Glass wall design with a glass roof.</p>
	<p>\$2,915</p>	<p>Starts at \$3,477</p>	<p>\$21,069</p>	
<p>TYPE 2 (T2) SERIES: 10 – 20 boardings per day</p> <p>Where to use:</p> <ul style="list-style-type: none"> Bus stops with low to medium levels of daily passenger boardings, not higher than 10-20 per weekday Bus stops with restricted space due to property lines, or obstructions which cannot be relocated <p>Included: The Cantilevered roof system with wood slat inserts, support columns; vandal resistant perforated aluminum back panels or tempered glass walls; 2 upper back panel inserts with BC Transit logo, two person wooden bench and an unlit system icon. Prices referenced are for installation of the basic model with no lighting or extra features</p> <p>**Excluded: Price excludes taxes, additional installation and travel costs. See pages 14 and 15.</p>	 <p>Cantilevered, single back wall, single bench seat, tempered glass panels available.</p>		<p>TYPE 2 (E2) SERIES: 10 – 20 boardings per day</p> <p>Where to use:</p> <ul style="list-style-type: none"> Bus stops with low to medium levels of daily passenger boardings, not higher than 40-50 passenger boardings per week Bus stops with restricted space due to property lines, or obstructions which cannot be relocated <p>Included: The Standard roof system with wood slat inserts, side walls; vandal resistant perforated aluminum back panels or tempered glass walls; 2 upper back panel inserts with BC Transit logo, two person wooden bench and an unlit system icon. Prices referenced are for installation of the basic model with no lighting.</p> <p>**Excluded: Price excludes taxes, additional installation and travel costs. See pages 14 and 15.</p>	 <p>Intended for locations in low to medium levels of daily passenger boardings.</p>
	<p>\$17,076</p>	<p>\$18,593</p>		
<p>TYPE 3 (T3) SERIES: 20 – 200 boardings per day</p> <p>Where to use:</p> <ul style="list-style-type: none"> Bus stops with average daily ridership of 20-200 passengers <p>Included: The Cantilevered roof system or side wall options; wood slat inserts in roof; support columns; vandal resistant perforated aluminum panels or tempered glass walls; 2 upper side panel inserts with BC Transit logo, two person wooden bench and an unlit system icon. Prices referenced are for installation of the basic model with no lighting.</p> <p>**Excluded: Price excludes taxes, additional installation and travel costs. See pages 14 and 15.</p>	 <p>Cantilevered or side wall design, 1 bench seat, optional extra rear panel, tempered glass panels also available.</p>		<p>TYPE 3 (E3) SERIES: 20 – 200 boardings per day</p> <p>Where to use:</p> <ul style="list-style-type: none"> Bus stops with average daily ridership of 20-200 passengers <p>Included: The Standard roof system with side walls; wood slat inserts in roof; support columns; vandal resistant perforated aluminum panels or tempered glass walls; 2 upper side panel inserts with BC Transit logo, two person wooden bench and an unlit system icon. Prices referenced are for installation of the basic model with no lighting.</p> <p>**Excluded: Price excludes taxes, additional installation and travel costs. See pages 14 and 15.</p>	 <p>Accommodates bus stops with high daily levels of passenger boardings.</p>
	<p>\$24,394</p>	<p>\$26,390</p>	<p>\$26,995</p>	
<p>TYPE 4 (T4) SERIES: 400+</p> <p>Where to use:</p> <ul style="list-style-type: none"> Bus stops with high daily ridership (400+), or for park and ride facilities (less than 100 stalls) and small transit exchanges <p>Included: The Cantilevered roof system or optional side panels; wood slat roof inserts; support columns; vandal resistant perforated aluminum panels or tempered glass walls; 2 side panel inserts with BC Transit logo, two person wooden bench and an unlit system icon. Prices referenced are for installation of the basic model with no lighting.</p> <p>**Excluded: Price excludes taxes, additional installation and travel costs. See pages 14 and 15.</p>	 <p>Cantilevered or side wall design, 2 bench seats, optional extra rear panel.</p>		<p>TYPE 3 (E3/E4) HARSH WEATHER SERIES: 20 – 200 boardings per day</p> <p>Where to use:</p> <ul style="list-style-type: none"> In areas that experience frequent inclement weather. The two or three panel front wall offers greater protection from the elements <p>Included: The standard roof system with tempered glass side, rear and two panel front walls; 2 side panel inserts with BC Transit logo, two person wooden bench and an unlit system icon. Prices referenced are for installation of the basic model with no lighting. Recommended with glass walls for visibility.</p> <p>**Excluded: Price excludes taxes, additional installation and travel costs. See pages 14 and 15.</p>	 <p>Accommodates bus stops with high daily levels of passenger boardings. Provides extra protection from the elements, such as wind, snow, rain.</p>
	<p>\$36,168</p>	<p>\$36,995</p>	<p>E3H \$29,377 E4H \$38,730</p>	
<p>TYPE 5 (T5) SERIES: Custom</p> <p>Type 5 Shelters are customized per application for large transit exchanges, park and rides with 100+ parking stalls. Pricing is quoted separately specific to needs assessment. Contact BC Transit for more information.</p> <p>**Excluded: Price excludes taxes, additional installation and travel costs. See pages 14 and 15.</p>	 <p>Rapid bus/Tram Station</p>		<p>TYPE 4 (E4) SERIES: 400+ boardings per day/<100 stalls</p> <p>Where to use:</p> <ul style="list-style-type: none"> Bus stops with high daily ridership or park and ride facilities and small transit exchanges <p>Included: The Cantilevered roof system or optional side panels; wood slat roof inserts; support columns; vandal resistant perforated aluminum panels or tempered glass walls; 2 side panel inserts with BC Transit logo, two person wooden bench and an unlit system icon. Prices referenced are for installation of the basic model with no lighting.</p> <p>**Excluded: Price excludes taxes, additional installation and travel costs. See pages 14 and 15.</p>	 <p>Primary use in a Park & Ride (less than 100 spaces) or small on street transit exchanges, and stops with high levels of passenger boardings</p>
	<p>Starting at \$63,496</p>	<p>Starting at \$127,700</p>	<p>\$36,396</p>	

BC Transit Shelters – Options and Add-ons

SHELTER LIGHTING OPTIONS							
All shelters have the option for non-illuminated, illuminated with LED lighting or solar lighting.							
	Wood slat soffit system Non-illuminated	LED Illuminated Roof	Solar Light Illuminated roof	Solar Light roof panel			
SHELTER AD PANEL OPTIONS							
Shelters have the option for illuminated or non-illuminated Ad Panels and Directory displays. All advertising revenue and contract management resides with the Municipality.				Additional Options <ul style="list-style-type: none"> Tempered glass back, partial front & side walls (optional for harsh weather shelters) Impact resistant LED light bars for bright and efficient LED illumination Self-sustainable solar kit, which integrates into the roof system Lit system Icons (standard if you purchase LED/Solar lighting—optional for unlit shelters) Add or remove wall panels to suit needs Add or remove wooden cantilever benches to suit needs Illuminated or non-illuminated Ad or directory Display panels 			
OPTIONAL ADD-ONS These costs listed below are cost shared with the municipality if requested on the initial shelter order.							
1. Garbage Receptable, round  \$4,879	5. Bike Rack  \$793	10. Solar lighting option, LED +  \$7,149	14. Additional Bench E-Series \$1,513 T-Series \$2,012				
2. Schedule frame 7" x 24", pole mounted  \$512	6. Additional back walls for angled roof/round base shelters  \$3,477	11. Visual indicator of a passenger inside shelter  \$4,879	15. Map Display***  \$1,951				
3. Ad panel ** Illuminated \$4,334 Non-Illuminated \$3,280	7. Additional back walls for flat roof/ square base shelters  \$3,477	12. Bike Locker  \$3,660	* requires electrician on site during install † requires install of solar grounding kit in slab *** excludes installation costs				
4. Additional bench, Cantilevered  \$2,012	9. USB charging ports  \$2,343	13. Grid Lighting Option, LED*  Starting at \$1,507					

Appendix A — APPLICATION AND APPROVAL PROCESS




*MOQ = Minimum shelter order quantity from supplier

*Review is based on the selection criteria, Page 9

*Agreement Letters are sent based upon Budget approval.

BC TRANSIT SHELTER REQUEST FORM

Please download the form, fill it out and save it. Send it as an attachment to newshelterprogram@bctransit.com



Bus Shelter Request Form

SUBMIT FORM
CLEAR FORM

Request submitted by:				Contact Information:			
MUNICIPALITY:		DATE:		NAME:		PHONE:	
Signing Authority Contact NAME: _____ TITLE: _____ EMAIL: _____							

Proposed Location for Shelter Placement Details																						
Row No.	Desired Fiscal Year	Priority	BC Transit Stop ID#	Stop Name				Shelter Construction Options										Is this to replace an existing shelter?*	Are these Floating Bus Stops?	Comments / Notes		
				Street Name	Nearest Cross Street	Intersection Location	Direction of Travel	Shelter Type	Lighting	Extra Options												
										Garbage	Schedule Frame	Lit-Ad Panel	Non-Lit-Ad Panel	Additional Bench	Bike Rack	Glass walls	Additional Glass walls				USN Charging	Bicycle Locker
1.																						
2.																						
3.																						
4.																						
5.																						
6.																						
7.																						
8.																						
9.																						
10.																						

Shelter Type Description	
T1 Series – Bench	E2 Series – Low to medium levels of passenger boardings per weekday (up to 50)
T1 Series – ID Post Mounted Seat	E3 Series – High levels of passenger boardings per weekday (100-200)
T2 Series – Low to medium levels of passenger boardings per weekday (up to 50)	E4 Series – High levels of passenger boardings per weekday (200+) Park & Rides, small exchanges
T3 Series – Moderate to high levels of passenger boardings per weekday (21-200)	OPTION: E Series Harsh Weather glass
T4 Series – High levels of passenger boardings per weekday (200+), Park & Rides, Small exchanges	Signature Series – Glass wall design with a glass roof

Bus Stop Design Details		Yes/No
For the above listed locations, Is site drawing available?		▼
Have the BC Transit Infrastructure design guidelines been read?		▼
Will the above listed sites upgrades conform to the guidelines?		▼
Will the above listed sites be accessible?		▼
Will land negotiations be required for any of the above listed sites?		▼

Additional Notes / Comments

* Municipality is responsible for removal of existing shelter prior to installation

** Visual Indicator is of a passenger inside shelter

To apply for BC Transit Bus Shelter Program, send this form to: newshelterprogram@bctransit.com

For pricing inquiries, contact: shelterpricing@bctransit.com

Appendix B — ADDITIONAL COSTS

Additional fees outlined below will apply and will also be estimated in your contract. These fees are cost shared with the municipality. See Appendix C for travel pricing.

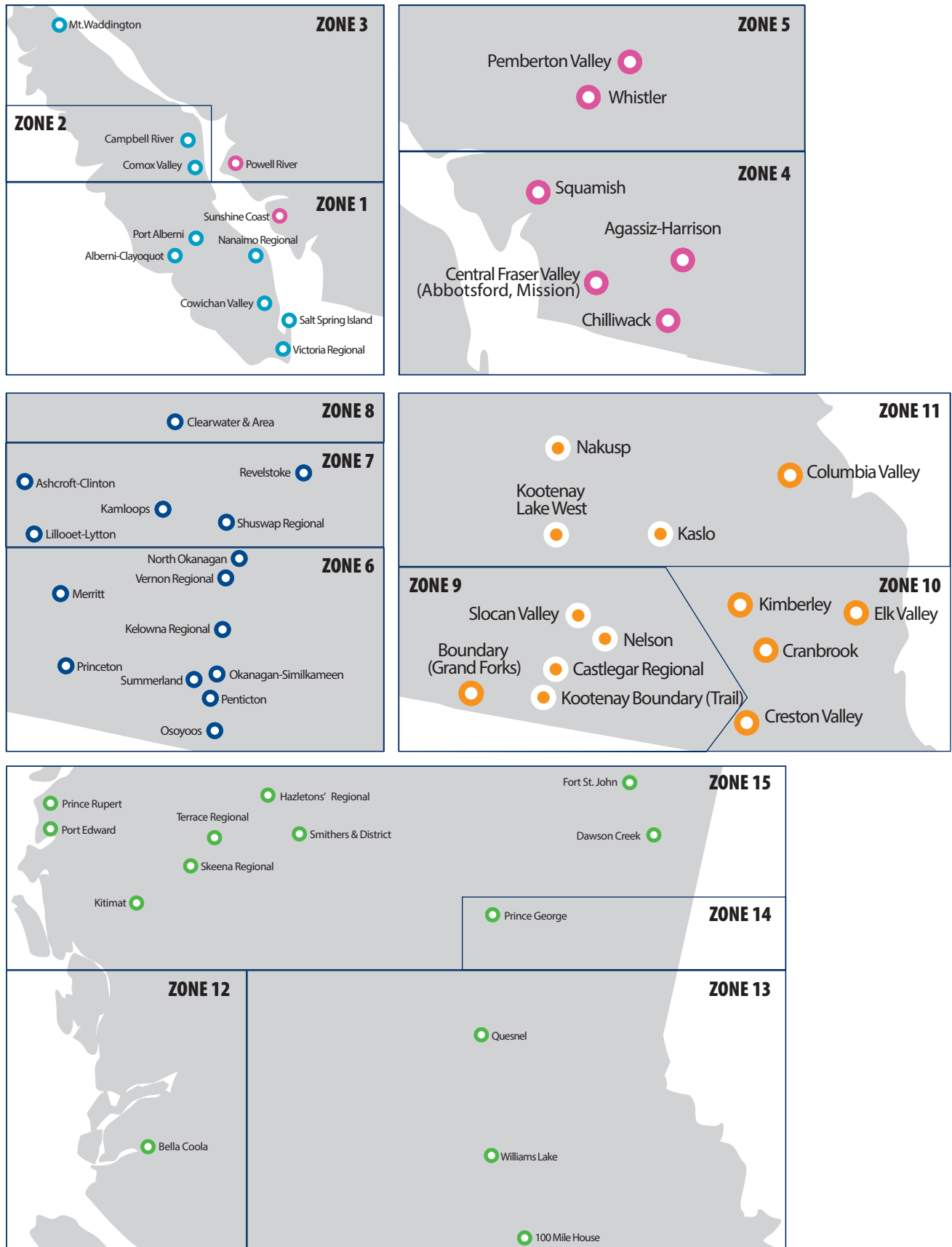
Cost Plus Item	Applicable Shelter Types	Plus	Inclusions
PERMIT FEES	AS APPLICABLE	15%	Admin fee to fill out application, local pickup of approved permit and City fees
TRAFFIC CONTROL	AS REQUIRED	15%	Flagging crews (TCP), safety and traffic control signage, pedestrian control, traffic mgmt plan (TMP), lane closures
CONCRETE PEDESTALS	AS REQUIRED	15%	Price will vary per pole, depending on slope of the site and the number of poles requiring a pedestal
WORK DELAYS	AS APPLICABLE	15%	Monarch will provide our Standard Rate Sheet but other subcontractors like flagging, hydrovac and concrete may have minimum charges
CORING EXTRAS	AS APPLICABLE	15%	For cantilevered shelters only. Monarch will make every effort to install multiple caissons in the same trip to reduce setup fees from the flagging, hydrovac and concrete subcontractors. Monarch would like to be able to add any extra charges to the Cost Plus protocol if there are reasons beyond our control in keeping a lean schedule.

Appendix C—TRAVEL RATE PRICE

Shelter Type	Trip Quantity	Travel & LOA Zones															Notes
		1	2	3	4	5	6	7	8	9	10	11	12	13	14	15	
T2S, T3S, T4S, E2, E3, E4	(4) Shelter Load	\$1,148	\$1,148	\$1,470	\$1,148	\$1,148	\$1,148	\$1,218	\$1,280	\$1,435	\$1,860	\$1,736	\$2,108	\$1,373	\$1,736	\$2,794	Price per shelter based on a (4) shelter load
	(3) Shelter Load	\$1,387	\$1,387	\$1,842	\$1,387	\$1,387	\$1,387	\$1,506	\$1,589	\$1,797	\$2,363	\$2,196	\$2,694	\$1,714	\$2,196	\$3,608	Price per shelter based on a (3) shelter load
Shelter	(2) Shelter Load	\$1,903	\$1,903	\$2,589	\$1,903	\$1,903	\$1,903	\$2,084	\$2,208	\$2,518	\$3,367	\$3,119	\$3,865	\$2,394	\$3,119	\$5,235	Price per shelter based on a (2) shelter load
	(1) Shelter Load	\$3,455	\$3,455	\$4,825	\$3,455	\$3,455	\$3,455	\$3,815	\$4,063	\$4,685	\$6,384	\$5,886	\$7,379	\$4,437	\$5,886	\$10,118	Price per shelter based on a (1) shelter load
T2C, T3C, T4C Shelter	(4) Shelter Load	\$1,926	\$1,926	\$2,611	\$1,926	\$1,926	\$1,926	\$2,347	\$2,471	\$2,782	\$3,543	\$3,295	\$4,041	\$2,658	\$3,119	\$5,235	Price per shelter & caissons based on a (4) shelter load
	(3) Shelter Load	\$2,450	\$2,450	\$3,363	\$2,450	\$2,450	\$2,450	\$3,011	\$3,178	\$3,592	\$4,608	\$4,275	\$5,271	\$3,426	\$4,158	\$6,980	Price per shelter & caissons based on a (3) shelter load
	(2) Shelter Load	\$3,324	\$3,324	\$4,693	\$3,324	\$3,324	\$3,324	\$4,166	\$4,415	\$5,037	\$6,208	\$5,710	\$7,203	\$4,788	\$5,710	\$9,942	Price per shelter & caissons based on a (2) shelter load
	(1) Shelter Load	\$5,944	\$5,944	\$8,683	\$5,944	\$5,944	\$5,944	\$7,629	\$8,126	\$9,370	\$12,064	\$11,069	\$14,056	\$8,873	\$11,069	\$19,531	Price per shelter & caissons based on a (1) shelter load

Okanagan Valley, Lower Mainland and Greater Victoria area

Travel Rate Zone Matrix



Appendix D — SPARE PARTS PRICES

Item	Spare Part Description	Shelter Type	Total Price
1	Backwall beam w/bracket	T-Series	\$493
2	Back wall	T-Series	\$875
3	Base plate cover (4" or 6" oblong)	T-Series	\$299
4	Base plate cover (4" or 6" round)	T-Series	\$237
5	Electrical box	T-Series	\$324
6	End Cap	T-Series	\$381
7	Extrusion- T3 Bottom Back	T-Series	\$320
8	Extrusion- T3 Bottom Front	T-Series	\$328
9	Extrusion- T3 Sunshade	T-Series	\$379
10	Extrusion- T3 Top Back	T-Series	\$332
11	Extrusion- T3 Top Front	T-Series	\$219
12	Graphic - Back Wall	T-Series	\$38
13	Graphic - Side Wall	T-Series	\$38
14	LED Lite Bar	T-Series	\$146
15	T3 Polycarbonate Roof Panel	T-Series	\$164
16	Rear connector	T-Series	\$523
17	Roof cross member	T-Series	\$420
18	Roof front connector	T-Series	\$375
19	Side wall	T-Series	\$1709
20	Sidewall support pole	T-Series	\$1296
21	Support pole	T-Series	\$569
22	System icon Assembly	T-Series	\$517
23	System icon face only	T-Series	\$105
24	Bench wood slat	T-Series	\$66
25	Roof wood slat	T-Series	\$41

Other parts available upon request.

Appendix E — SAMPLE CONCRETE PAD DRAWING

E-Series Slab Foundations

Style E2

GENERAL NOTES:
CONCRETE PAD WITH REINFORCING STEEL.
SPECIFICATION, HILTI THAT WILL CARRY 1000 LB UPLIFT.
CONCRETE 30 MPa @ 28 DAYS

Dependable by Design	
MONARCH	
www.monarchstructures.com 1-855-355-8243	
CUSTOMER APPROVAL	
DATE	
PROPRIETARY AND CONFIDENTIAL	
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UNLESS OTHERWISE SPECIFIED	
-INTERPRET DRAWING PER ASME Y14.5-2009	
-UNTOLERANCED DIMENSIONS ARE BASIC	
-DIMENSIONS ARE IN INCHES	
-GENERAL TOLERANCE	
REFER TO ACCOMPANYING P.D FOR SPECIFIC INSTRUCTIONS	
DO NOT SCALE DRAWING	
PART NAME	PART REVISION
1013211	A
DRAWN BY: GURUPRASAD	
STATUS: RELEASED	
DATE: 2023-04-26	
APPROVALS IN PDM DATABASE	
THIRD ANGLE PROJECTION	
PRODUCT: E SERIES SHELTERS	
PART TYPE: FOUNDATION	
Email: info@monarchstructures.com	
WEIGHT (LBS):	
SCALE: 1:30	
SHEET: 1 of 1	
DWG#: 1013211	REV: A
TITLE: NEW E2 PARTIAL & FULL SIDE WALL FOUNDATION-SLAB	

Style E3
Harsh-Type
Foundation-Slab
(Lit Ad Box)

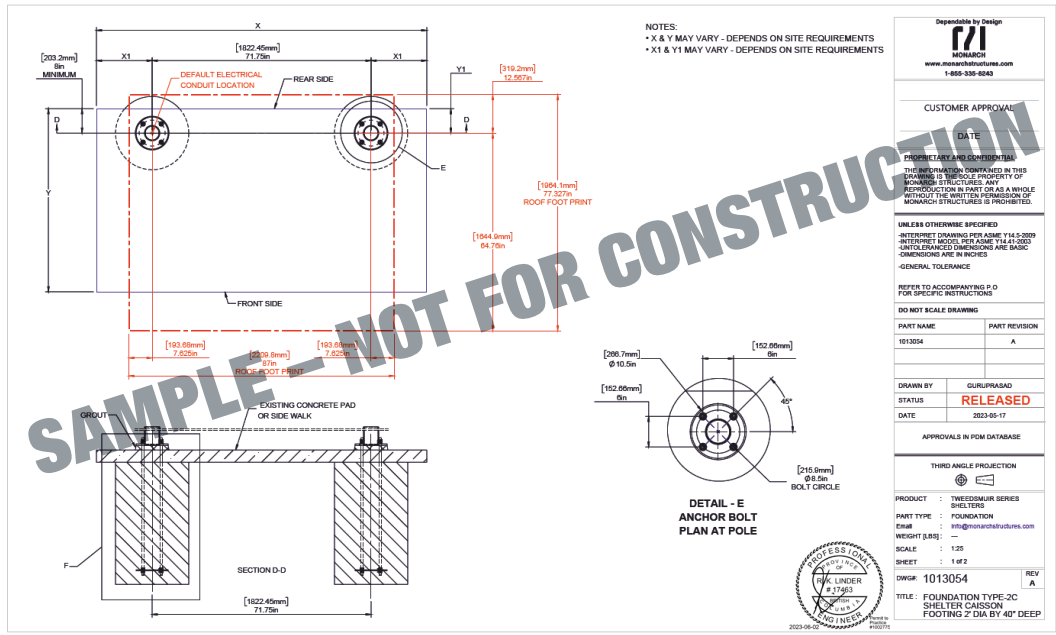
GENERAL NOTES:
CONCRETE PAD WITH REINFORCING STEEL.
SPECIFICATION, HILTI THAT WILL CARRY 1000 LB UPLIFT.
CONCRETE 30 MPa @ 28 DAYS

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UNLESS OTHERWISE SPECIFIED	
-INTERPRET DRAWING PER ASME Y14.5-2009	
-UNTOLERANCED DIMENSIONS ARE BASIC	
-DIMENSIONS ARE IN INCHES	
-GENERAL TOLERANCE	
REFER TO ACCOMPANYING P.D FOR SPECIFIC INSTRUCTIONS	
DO NOT SCALE DRAWING	
PART NAME	PART REVISION
1013210	A
DRAWN BY: GURUPRASAD	
STATUS: RELEASED	
DATE: 2023-04-26	
APPROVALS IN PDM DATABASE	
THIRD ANGLE PROJECTION	
PRODUCT: E SERIES SHELTERS	
PART TYPE: FOUNDATION	
Email: info@monarchstructures.com	
WEIGHT (LBS):	
SCALE: 1:30	
SHEET: 1 of 1	
DWG#: 1013210	REV: A
TITLE: NEW E3 FF-HARSH-TYPE FOUNDATION-SLAB (NON LIT AD BOX)	

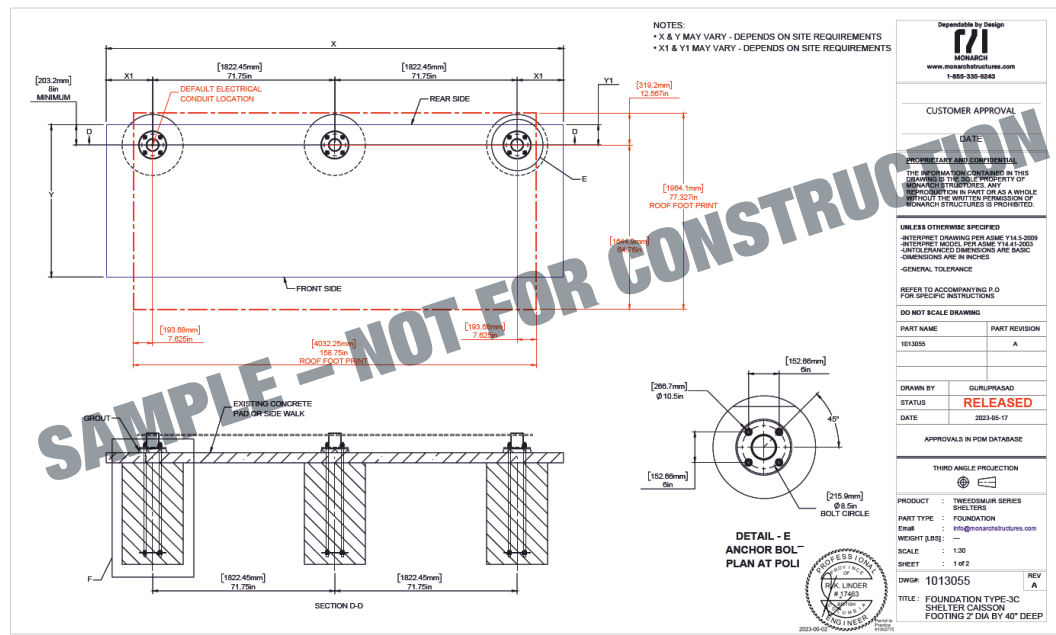
Disclaimer: these drawings are intended to be for reference only. Specific drawings for your shelter will be supplied at the time of order. Please contact BC Transit if you have any questions about shelter sizing for your locations.

T-Series Caisson Foundations

Style T2

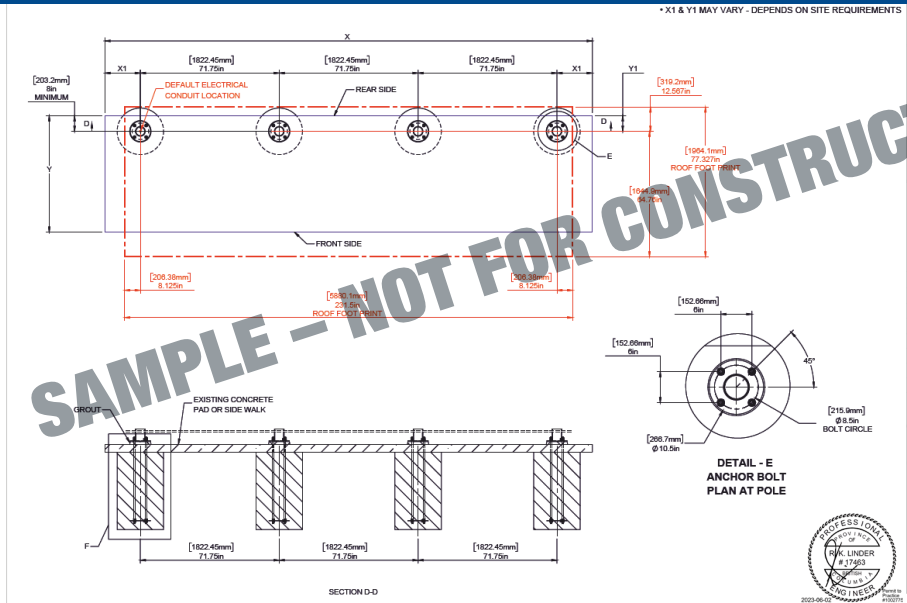


Style T3



T-Series Caisson Foundations

Style T4



SAMPLE - NOT FOR CONSTRUCTION

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DATE	
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UNLESS OTHERWISE SPECIFIED	
-INTERPRET DRAWING PER ASME Y14.5:2009	
-INTERPRET DIMS. PER ASME Y14.41:2013	
-UNLESS OTHERWISE SPECIFIED, DIMENSIONS ARE IN INCHES	
-GENERAL TOLERANCE	
REFER TO ACCOMPANYING P.D. FOR SPECIFIC INSTRUCTIONS	
DO NOT SCALE DRAWING	
PART NAME	PART REVISION
1013056	A
DRAWN BY: GURUPRASAD	
STATUS: RELEASED	
DATE: 2023-05-17	
APPROVALS IN PDM DATABASE	
THIRD ANGLE PROJECTION	
PRODUCT: T-SERIES AIR SERIES SHELTERS	
PART TYPE: FOUNDATION	
Email: info@monarchstructures.com	
WEIGHT (LBS):	
SCALE: 1:40	
SHEET: 1 of 2	
DWG#: 1013056	REV: A
TITLE: FOUNDATION TYPE-4C SHELTER CAISSON FOOTING 2" DIA BY 40" DEEP	



Contact Us

Shelter program details: newshelterprogram@bctransit.com

Shelter pricing related inquiries: shelterpricing@bctransit.com



520 Gorge Road East
Victoria, BC V8W 2P3
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