

El Paso Streetcar Track Access Training





Provided by the Sun Metro Streetcar Operations Team | 2023



Purpose and scope

- The purpose of this procedure is to maintain a safe environment and provide an efficient transit system for customers, employees, contractors, and Permittee when work or events are being performed on the El Paso Streetcar (EPSC) Operational Right-of-Way (ROW), or within the vicinity of the EPSC.
- To maintain a safe environment for anyone requiring track access to the EPSC Operational ROW and/or has the POTENTIAL to affect the operation of the El Paso Streetcar



Applicability

• City Of El Paso Ordinance 018824 - Title 13 (Streets, Sidewalks and Public Places) be amended to add a new Chapter 13.42 as follows:

– Chapter 13.42- Streetcar Track Access Program Procedure

- Any person or entity performing any activity <u>under any Streetcar</u> <u>Infrastructure or within 10 feet of any Streetcar Infrastructure</u> **MUST COMPLY** with the Track Access Program Procedure as adopted and amended by the Streetcar Safety Officer from time to time
- Activity: means the following:
 - Any construction, demolition, event, moving event, excavation, use of the right of way, cleaning, painting, repairing, or installation of traffic control devices, regardless of whether any of the previous requires the approval of the City under the El Paso City Code; or
 - Any activity under the El Paso City Code that requires a permit, license, permission, or review from the City or other regulatory entity.

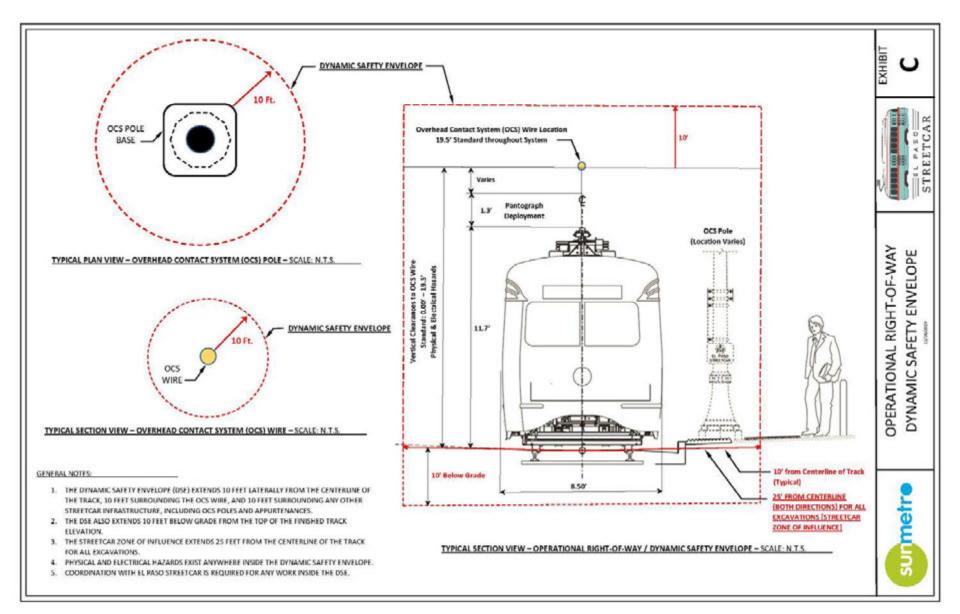


Applicability

- Streetcar Infrastructure means any component or item used for the operation of the Streetcar, including but not limited to, the railcars, track works, traction power substations, overhead contact systems, overhead contact system poles, train wayside communications systems, and/or the streetcar maintenance facility.
- Any project or event starting within 10 feet of the center of the track, overhead wire or EPSC infrastructure falls on the area known as <u>the Streetcar Dynamic Safety</u> <u>Envelope</u> or <u>the Streetcar Operational Right-of-Way</u>.



Dynamic Safety Envelope





Streetcar Information



El Paso Streetcar Vehicle

1506

SPECIAL

Length: 46 ft. 6 in Height: 11 ft. 3 in Weight: 47,740 lbs. Capacity: 90-92 passengers

1506

El Paso Streetcar

- 4.8 mile route from the DTC to UTEP
- 27 streetcar stops
- Speeds of up to 35 MPH
- Powered by electricity with overhead wires





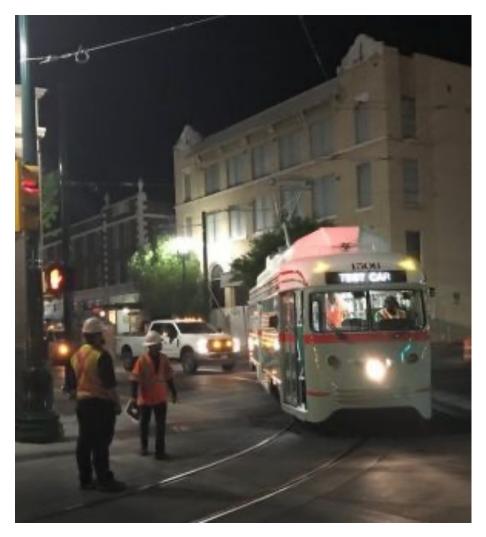
El Paso Streetcar Proposed Schedule

- During Peak Hours, streetcars run every 15 minutes.
- During off Peak Hours, streetcars run every 20 minutes.
- Between 2-3 streetcar vehicles will travel on the route at any given time.





Active Track



An active track is any track which has an Overhead **Contact System (OCS)** wire is present and capable of running the streetcars for testing or revenue service. El Paso streetcars can run in either direction on any track at any time.



Overhead Contact System (OCS) Wires



- Contact wire is 18' to 20' off the ground with the exception of the pedestrian overpass on N. Oregon south of Hague St where the wire is 15'.
- The 13-kv AC system provides power to the streetcars with 600/650-volt DC power running through the overhead wires.



Revenue Service

• El Paso Streetcar Revenue Service is the period of time when an El Paso Streetcar vehicle is available to the general public and there is an expectation of carrying passengers.



Non-Revenue Service Hours

 Non-Revenue Service Hours refers to the hours outside of the normal revenue service hours as well as the one hour prior to the first revenue service hour of the day.



Streetcar Service Testing



- El Paso Streetcar Service Testing was the period of time when an El Paso Streetcar vehicle was undergoing safety or mechanical testing on the track.
- During this period, the El Paso Streetcar was moving along with traffic but not boarding passengers.
- The El Paso Streetcar is now in full revenue service, operating on city street, and transporting passengers.



El Paso Streetcar

Hours of Operation

Sunday 12:00 pm – 6:00 pm Mon - Thurs: 7:00 am – 7:00 pm Friday: 7:00 am – 11:00 pm Saturday: 12:00 pm – 11:00 pm





Track Access Authorization





Track Access Authorization Process

- <u>http://www.sunmetro.net/streetcar/track-access</u>
- Track Access Request Form (either the Special Event or Non-Special Event Application) must be submitted to EPSC within the following deadlines.

Special Events – 30 calendar days minimum prior to the event.

Construction or other non-special event activity – 14 calendar days minimum prior to the start of work.

Trenching and/or excavation activity – 45 calendar days minimum prior to the start of work.



Track Access Authorization Process

Prior to being granted authority to work or conduct a special event within the EPSC Operational ROW, the Permittee is required to:

- 1) Provide a <u>completed</u> Track Access Application.
 - Non-Special Events Application
 - Special Events Application
- 2) Provide a Traffic Control Plan in accordance with the Streetcar Specific Typical Applications.
- 3) Submit one (1) copy of Commercial General Liability with Contractual Liability Railroads Endorsement **OR** Railroad Protective Liability Insurance
- Complete a Track Access Training available online through the Track Access Program Policy website: <u>http://www.sunmetro.net/streetcar/track-access</u>
 Coordinate with Ms. Terri Davila at 915-212-3451 or <u>Teresa.Davila@elpasotexas.gov</u> to pick up Track Access card at the MSF Facility located at 601A Santa Fe.
- 5) Comply with applicable federal, state, local, and EPSC requirements.



FAILURE TO COMPLY WITH THE 14/30/45 – DAY REQUIREMENT WILL RESULT IN AN AUTOMATIC DENIAL OF THE TRACK ACCESS REQUEST APPLICATION.

Non-Special Events Application Checklist

REQUIRED DOCUMENTATION FOR STREETCAR TRACK ACCESS PERMIT

SUBMISSION DEADLINES - The following deadlines shall apply:

- Construction, Maintenance, or other Non-Special Event activity 14 calendar days minimum prior to the start of work.
- Trenching and/or Excavation activity 45 calendar days minimum prior to the start of work.

FAILURE TO COMPLY WITH THE 14/45 – DAY REQUIREMENT WILL RESULT IN AN AUTOMATIC DENIAL OF THE TRACK ACCESS REQUEST APPLICATION.



TRACK ACCESS TRAINING – A track access training shall be completed <u>PRIOR TO</u> submittal of the Track Access Permit application. A valid ID# shall be required on the application at the time of submission. Please coordinate with Mr. Johnny Balcazar at 915-212-3465 to schedule a training.



<u>APPLICATION</u> – Each item on this application shall be completed and all documentation required on this form shall be submitted before this application is accepted for processing, to include all signatures/initials. Submittal of an application does not constitute acceptance for processing until Streetcar staff reviews the application for accuracy and completeness.



<u>CONSTRUCTION DRAWINGS</u> – Submit construction drawings of proposed scope of work, if applicable. For maintenance activities, provide detailed description of work in application section 3.0. Refer to the following exhibits for specific submittal requirements:

- Exhibit H Trenching and/or Excavations
- Exhibit I Aerial Applications (fiber optic, communications, power, etc.)
- Exhibit J Directional Boring



<u>RAIL INSURANCE</u>- All required insurance shall be submitted with the application as stipulated in Exhibit E of the Track Access Program Policy.



TRAFFIC CONTROL PLAN – A traffic control plan shall be submitted with the application as stipulated in Exhibit D of the Track Access Program Policy.

Sun Metro – El Paso Streetcar Planning Department – ROW Compliance 10151 Montana Ave. | El Paso, Texas 79925





Exhibit A Track Access Request Non-Special Event



				Acc
Date of Submission			1.3 Request Type:	
Date(s) of Proposed	Work:		Construction	Offi
Hours of Work:	From	To	Maintenance	DOWNTOW
nour of work	<u></u>	10	Other	EPTC:
				0
Requestor:				
Requestor:		100-310		
Title:				
Company:				
Address:				
Cell Number:				
Email Address:				2
On-Site Foreman:				
Cell Number:				
Number of On-Site	Workers:			

3.0 Description of Work:

5.0 Do you have a valid Track Access Training ID#?

✓ Yes, provide ID #:_____

A Valid Track Access Training ID# is required at time of application submission, failure to provide a valid ID# will result in an automatic denial of application

Track Access Training is provided online through the Track Access Program Policy website: <u>http://www.sunmetro.net/streetcar/track-access</u>. For information regarding the online training/test, please contact Moraima Cervantes at 915-212-3465.

6.0	Does your work include the use of a crane, forklift, lifting device, boom truck, scissor lift or similar vehicle? 🛛 🔽 Yes 🗸 No
6.1	If Yes, provide a description of vehicle(s):
6.2	Vehicle Height*: Vehicle Width: Number of Vehicles: Maximum Reach or Extent of Boom, Crane, Lift:
	* Vehicle height measured from ground level to top most element of vehicle.
7.0	Does your work include the use of a stage, tent, canopy, elevated platform, scaffolding or any temporary structure? 🛛 🔽 Yes 📝 No
7.1	If Yes, provide a description of structure:
7.2	Structure Height*: Structure Length: Structure Depth:

Structure height measured from ground level to top most element.

Acknowledgements

8.2

I understand when there exists multiple permits, or requests for access to the ROW it shall be the policy of EPSC to accept/process requests on a first come, first serve basis. Only one (1) Permitee may occupy the same requested portion of the ROW at a time, subsequent requests for the use of an already allocated portion of the ROW will be denied regardless of permission obtained from other COEP departments, contractors, vendors, or other regulatory entity. (initials)

8.3 I understand that I must provide insurance as a condition of this permit application in accordance with Exhibit E. _____ (initials)

Applicant will coordinate with applicable City Departments, state, or federal agencies to obtain any necessary permits and approvals required for the proposed work and use of premises.

Applicant releases the City of El Paso ("City"), the Mass Transit Department for the City of El Paso ("MTD") and the City's and MTD's officers, employees, and agents from any liability and claims for illness, injuries, death, property damage, and/or property loss sustained by Applicant as a result of any inaction or action by the Applicant or third party on the public right-of-way.

APPLICANT AGREES, TO THE FULLEST EXTENT ALLOWED BY LAW, TO INDEMNIFY, DEFEND, AND HOLD HARMLESS THE CITY OF EL PASO (THE "CITY"), THE MASS TRANSIT DEPARTMENT FOR THE CITY OF EL PASO ("MTD") AND THE CITY'S AND MTD'S OFFICERS, AGENTS, AND EMPLOYEES FROM AND AGAINST ANY AND ALL CLAIMS, SUITS, ACTIONS JUDGEMENTS, FINES, PENALTIES, LOSS, DAMAGE, COST, OR EXPENSE (INCLUDING BUT NOT LIMITED TO ATTORNEYS' FEES), WHETHER DIRECT OR INDIRECT, DUE TO BODILY OR PERSONAL INJURY, DEATH, SICKNESS, PROPERTY DAMAGE, OR PROPERTY LOSS ARISING OUT OF APPLICANT'S ACTIONS OMMISIONS, AND/OR ACTIVITIES. IN THE EVENT A THIRD PARTY MAKES A CLAIM OR FILES A LAWSUIT AGAINST THE CITY AND/OR MTD FOR ANYTHING RELATED TO APPLICANT'S ACTIONS, OMMISIONS, OR ACTIVITIES, THE APPLICANT SHALL DEFEND SUCH CLAIM OR LAWSUITS ON BEHALF OF THE CITY AND/OR MTD AT APPLICANT'S SOLE COST AND EXPENSE. APPLICANT FURTHER AGREES TO REPAIR ANY DAMAGE OR DISTURBANCE TO CITY AND/OR MTD PROPERTY CAUSED BY THE APPLICANTS. APPLICANT AGREES THAT FOR PURPOSES OF THIS PROVISION THE ACTIONS, OMISSIONS, AND/OR ACTIVITIES INCLUDE THOSE OF THE APPLICANT'S AGENTS, EMPLOYES, OFFICERS, CONTRACTORS, AND SUBCONTRACTORS.

ACKNOWLEDGEMENT: I attest that this application is complete and accurate to the best of my knowledge. I understand that any inaccurate or incomplete information provided on this application may delay or be cause for denial of the Track Access Permit. Furthermore, I attest that I have read, fully understand, and accept all conditions and requirements of the Track Access Program Policy.

Submit Completed Applications through the City of El Paso Online Permitting System:

https://epermits.elpasotexas.gov/CitizenAccess/Default.aspx

8.4 Applicant Name:

8.5 Applicant Signature:

Special Events Application Checklist

REQUIRED DOCUMENTATION FOR STREETCAR TRACK ACCESS PERMIT

SUBMISSION DEADLINES - The following deadlines shall apply:

 Special Event activity – 30 calendar days minimum prior to the start of the event.

FAILURE TO COMPLY WITH THE 30 – DAY REQUIREMENT WILL RESULT IN AN AUTOMATIC DENIAL OF THE TRACK ACCESS REQUEST APPLICATION.

TRACK ACCESS TRAINING – A track access training shall be completed <u>PRIOR TO</u> submittal of the Track Access Permit application. A valid ID# shall be required on the application at the time of submission. Please coordinate with Mr. Johnny Balcazar at 915-212-3465 to schedule a training.

APPLICATION – Each item on this application shall be completed and all
documentation required on this form shall be submitted before this application is
accepted for processing, to include all signatures/initials. Submittal of an
application does not constitute acceptance for processing until Streetcar staff
reviews the application for accuracy and completeness.

<u>SITE PLAN/MAP</u> – Submit a site plan or map detailing the event limits or route for any "moving" events.

<u>RAIL INSURANCE</u>- All required insurance shall be submitted with the application as stipulated in Exhibit E of the Track Access Program Policy.

TRAFFIC CONTROL PLAN – A traffic control plan shall be submitted with the application as stipulated in Exhibit D of the Track Access Program Policy.



REETCAR		s Request - Spec	Accela CSSN
Date of Submission: Date of Event: Hours of Event:	From		Office Use Only DOWNTOWN UPTOWN
			CSEV:Office Use Only
Requestor:			
Title:			
Company:	<u></u>		
Address:			
Cell Number:			
Email Address:			
Number of Participan Limit of Access (desc intersection of Orego	ribe location of event	t area, example – Santa I	Fe from Franklin to Paisano or the
		- 1041 4	
Do you have a valid 1	Track Access Training	g ID# ? 🗸 Yes, p	rovide ID #:
Do you have a valid T **A Valid Track Acces	ss Training ID# is requir		submission, failure to provide a valid ID#
A Valid Track Acces	ss Training ID# is requin will result in a	red at time of application	submission, failure to provide a valid ID# plication



7.0 Is your Special Event considered a "Moving" Special Event? (i.e., Walk, Run, Marathon, March, Parade)

	Yes 🗸 No				
	If yes, Streetcar Specific Temporary Traffic Control as referenced in Exhibit D, Typical Applications is required at time of application submission. Failure to provide a Traffic Control Plan will result in an automatic denial of application.				
8.0	Does your event include the use of vehicles or parade floats? Ves No				
8.1	8.1 If Yes, provide a description of vehicle(s):				
8.2	Vehicle Height*: Vehicle Width: Number of Vehicles: * Vehicle height measured from ground level to top most element of vehicle or float.				
9.0	Does your event include the use of a stage, tent, canopy, elevated platform, or any temporary				
	structure? Yes No				
9.1	If Yes, provide a description of structure:				
9.2	Structure Height*: Structure Length: Structure Depth:				
	* Structure height measured from ground level to top most element.				

Acknowledgements

 10.0
 Image: Control Plance

 10.1
 Image: Control Plance

 11
 Image: Control Plance

 11
 Image: Control Plance</

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- 10.2 other regulatory entity. _____ (initials)
- 10.3 I understand that I must provide insurance as a condition of this permit application in accordance with Exhibit E. ______ (initials)



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10.4 Applicant Name:

10.5 Applicant Signature: _____ Date: _____

Submit Completed Applications through the City of El Paso Online Permitting System:

https://epermits.elpasotexas.gov/CitizenAccess/Default.aspx



Track Access Authorization Process

- Once the permit has been approved, the permittee will submit the Track Allocation Form two (2) weeks before the work or special event along the Streetcar corridor, Streetcar Dynamic Safety Envelope, or Operational Right-of-way.
- To submit your Application for a Permit and to take the Track Access Training please go to: <u>https://sunmetro.net/streetcar/track-access/</u>
- It is required that the applicant participate in the Track Access Training prior to the submission of an access request. Once you complete the Track Access Training, you will be notified when your Track Access Card is ready to be picked up. For further information regarding training please contact:

Terry Davila – El Paso Streetcar 915-212-3451

Teresa.Davila@elpasotexas.gov

 It is the responsibility of the Permittee requesting <u>TO CONDUCT A</u> <u>SPECIAL EVENT OR WORK ON, UNDER, ACROSS, OR OVER</u> the EPSC Operational ROW and the related infrastructure, to coordinate with EPSC prior to any work or event.



Track Access Request Form

	PASO	Track Alloca	ation Notific	ation Form
STR	EETCAR	Track Access Permit Number	Type of access	Testing
Requested date	a .	-		Track Access Event
Permit holder			-	Emergency
Description of Work:	<u></u>			
Number of Workers:		- Hours of access	From	То
Limit of access	Street intersection			
	From:		To:	
	Street			
	From:		To:	
	d worker(s) Certified by Str I During Non-Revenue Serv		YesYes	
Power Down/Remova Hours Requested:	I During Revenue Service		□ Yes	
Spotter required			□ Yes	No No
Cherry Constant State Const	Assigned Spotter			
Attachment Enclosed:		-		-

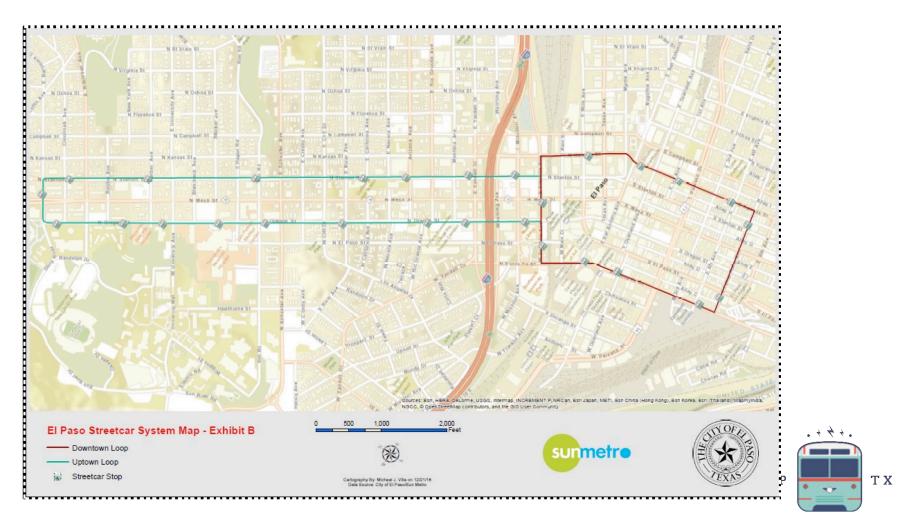
Special Operating Conditions:

1. Work within 10 feet of the Overhead Contact Systsm requires line deactivation; any continuous work within Its Envelope of Operation requires shutdown of service. Efforts must be made to schedule such work during non-operational hours unless due to emergency or major coordinated work .

Request for Right-of-Way access permit must be submitted by 12:00 p.m. (daily), 48 hours prior to the scheduled work.

3. All personnel must wear reflective safety garments conforming to 1988 Edition, MUTCD Sec. 6E-3, High-Visibility Clothing.

El Paso Streetcar Map



STREETCAR

Components of Temporary Traffic Control

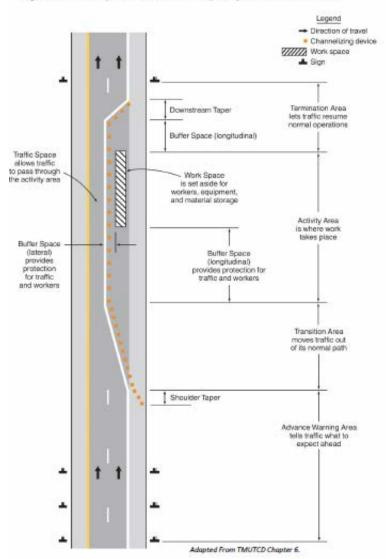


Figure 6C-1. Component Parts of a Temporary Traffic Control Zone



Track Access Authorization Process

5. Emergency Access

- 5.1 Emergency Access will be granted on a case-by-case basis in accordance with the provisions outlined in this policy. The Chief Safety Officer shall have the sole responsibility in granting emergency access.
- 5.2 Request for emergency access shall be routed to Streetcar Dispatch at 915-212-3454 or 915-212-3425 [After Hours].
- 5.3 Submittal requirements (see section 2.9 for definitions):

Tier 1 – Documented written or verbal description of the emergency;

Tier 2 or 3 – Track Access Request Form AND Traffic Control Plan.

- 5.4 All work for Tier 2 or Tier 3 activities shall only be performed during non-revenue service hours.
- 5.5 Emergency Access will be granted for a period of **5 calendar days maximum**, after which time the permittee shall submit a Track Access Request and provide all required documentation in accordance with the provisions outlined in this policy.





CITY OF EL PASO - STREETCAR TRACK ACCESS PERMIT CSNN23-00007

On-Site POC:

Permitee: Robert Downey Jr. 8516 EDGAR PARK AVE. EL PASO, TX 79904

Mr. Robert Downey Jr. 915-222-2222 Issued:

Permit Type: Construction

Work Site Location: UPPER & LOWER LOOPS

Description of Permitted Work: Approved Construction work with conditions as outlined in Streetcar Track Access Permit

Valid From: 04/24/2023 Valid To: 05/24/2023 Military Time: 08:00 - 16:00

Streetcar Notes: Please keep in mind: MON-TUES – Work can be done all day, unless testing is taking place, which is 2nd week of every month. WED-FRI – Work can be done only up until 11:00 a.m. & as early as needed. SAT & SUN - No work allowed.

YOU MUST NOTIFY STREETCAR DISPATCH <u>30 MINUTES PRIOR TO ENTERING RIGHT-OF WAY</u> (ROW), AND WHEN EXITING THE ROW at (915) 212-3454 OR (915)212-3425.

*** NOTICE ***

1. PERMITTEE AGREES, TO THE FULLEST EXTENT ALLOWED BY LAW, TO INDEMNIFY, DEFEND, AND HOLD HARMLESS THE CITY, MTD AND THE CITY'S AND MTD'S OFFICERS, AGENTS, AND EMPLOYEES FROM AND AGAINST ANY AND ALL CLAIMS, SUITS, ACTIONS, JUDGMENTS, FINES, PENALTIES, LOSS, DAMAGE, COSTS, OR EXPENSE (INCLUDING BUT NOT LIMITED TO ATTORNEYS' FEES), WHETHER DIRECT OR INDIRECT, DUE TO BODILY OR PERSONAL INJURY, DEATH, SICKNESS, PROPERTY DAMAGE, OR PROPERTY LOSS ARISING OUT OF PERMITTEE'S ACTIONS, OMMISSIONS, AND/OR ACTIVITIES. IN THE EVENT A THIRD PARTY MAKES A CLAIM OR FILES A LAWSUIT AGAINST THE CITY AND/OR MTD FOR ANYTHING RELATED TO PERMITTEE'S ACTIONS, OMISSIONS, OR ACTIVIITES, THE PERMITTEE SHALL DEFEND SUCH CLAIM OR LAWSUITS ON BEHALF OF THE CITY AND/OR MTD AT PERMITTEE'S SOLE COST AND EXPENSE. PERMITTEE FURTHER AGREES TO REPAIR ANY DAMAGE OR DISTURBANCE TO CITY AND/OR MTD PROPERTY CAUSED BY PERMITTEE.

2. THIS PERMIT IS ISSUED IN ACCORDANCE WITH THE PROVISIONS OF THE EL PASO STREETCAR TRACK ACCESS PROGRAM AND THE PERMITTEE, IN ACCEPTING IT, OBLIGATES THEM TO COMPLY FULLY WITH ALL PROVISIONS OF THE TRACK ACCESS PROGRAM AND OTHER APPLICABLE CODES AND ORDINANCES INSOFAR AS THEY AFFECT THIS PERMIT.

3. THIS TRACK ACCESS PERMIT, APPROVED TRACK ACCESS REQUEST FORM, AND APPROVED TRAFFIC CONTROL PLAN, OR A COPY THEREOF, SHALL BE KEPT ON THE WORK SITE OR IN THE POSSESSION OF THE ABOVE NAMED PERMITTEE UNTIL COMPLETION OF ALL WORK OR EVENT.

4. EL PASO STREETCAR MUST APPROVE ANY CHANGES IN PERMITTEE OR DEVIATION FROM APPROVED PLANS.

5. THIS PERMIT IS ONLY VALID FOR THE DATES AND TIMES SPECIFIED.

6. THIS PERMIT MAY BE REVOKED FOR VIOLATION OF ANY OF THE ABOVE PROVISIONS AND/OR ALL OTHER APPLICABLE LAWS.

7. PERMITEE, IN ACCEPTING THIS PERMIT ACKNOWLEDGES THEY HAVE READ THIS PERMIT AND STATE THAT THE ABOVE INFORMATION IS CORRECT, AND AGREE TO COMPLY WITH ALL CITY, STATE, AND FEDERAL LAWS REGULATING ACTIVITIES COVERED BY THE PERMIT.

Issued By: Teresa Davila

Communication

- Permittee <u>MUST</u> contact El Paso Streetcar Dispatch at least 30 minutes prior to entering the ROW, and when exiting the ROW
- El Paso Streetcar Dispatch is located at 601-A Santa Fe Street, El Paso, TX 79901
- El Paso Streetcar Dispatch phone number(s): 915-212-3460 915-212-3461 915-212-3454
- After hours Sun Metro Dispatch can be reached at 915-212-3425



Authority

- Ordinance 018824 section 13.42.020 (D) establishes that:
 - For purposes of protecting the health, safety, and welfare of all citizens, the Streetcar Safety Officer is authorized <u>to issue a stop</u> work order to any activity that does not comply with this chapter and/or the Track Access Program Procedure
- Ordinance 018824 section 13.42.030 (A-B) establishes that:
 - A. Any person who shall violate any provision of this chapter shall, upon conviction, be guilty of a misdemeanor and punished by a fine not <u>exceeding five hundred dollars</u>. Each day the violation occurs shall constitute a separate offense.
 - B. The Streetcar Safety Officer, the permit official, and any code enforcement officer of the City of El Paso are authorized to enforce the provisions of this chapter and shall have the power to issue misdemeanor citations to any person violating the provisions of this chapter.



Streetcar Safety Rules





- You <u>MUST</u> complete this training before you enter any Work or Special Event Area!
- You <u>MUST</u> read, understand and formally acknowledge all procedures before you can enter a Work/Special Event Area!
- You <u>MUST</u> have a valid permit to work in the specified Work Area or conduct a Special Event!



- You <u>MUST NEVER</u> enter the Work Zone / Special Event Area without prior authorization!
- You <u>MUST</u> utilize <u>Qualified Flaggers</u> when working in the Operational Right-of-Way during revenue service and/or testing!
- No work other than that specified in the Track Access Request Form and Permit is authorized.



Respect The Overhead Contact Wire

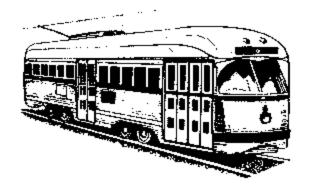
<u>ALWAYS</u> consider that the Overhead Wires

are energized and HOT!





- Remain clear of passing streetcars.
- Always look both ways before crossing tracks!
- Always exercise caution when moving out of a work area and into an active street.
- Always be vigilant for streetcar movement.









- All Contractors and construction crew members MUST have a Supervisor present.
- Inform the Supervisor on entering and leaving the work area.
- The Supervisor must possess all necessary City permits and authorizations on his / her person at all times.
- The Supervisor must explain all conditions of permits to the crew before beginning the work.
- All workers must comply with the requirements and terms of the Track Access Authorization.



- The Supervisor must ensure all appropriate signs are properly deployed marking the work area.
- Rubber tired vehicles may not be present on energized track without special permission.
- Never swing equipment over or under overhead wires closer than 10 feet.

✓ Special request needed for exceptions to this rule.



- <u>Always be alert</u> streetcars are quiet, fast and can travel in either direction on any track!
- Streetcars cannot stop quickly.
- Pay strict attention to the Flagger's signals.
- Never loiter on or near active tracks.



Precautions while working

- Stay out of the work zone area unless your job requires you to enter the area.
- Reflective safety vests and Personal Protection Equipment (PPE) appropriate for the work <u>MUST</u> be worn at all times.
- If work is being done during a power down, grounds may need to be installed
- It is the responsibility of the permit holder to make sure all permit workers follow the procedures accordingly



PERSONAL PROTECTIVE EQUIPMENT

Every person on the ROW shall have the following PPE

Reflective high visibility vest



ROW	No.
Name: Balge #or Company: Date of Training: Expiration Date:	
	/Not Proof of Employment Transportation Authority
 Valid	ROW
Sa	fety



Flashlight (if is night work)



Certification

Safety shoes/boots



When a streetcar approaches...

- Never stand between sets of tracks, or between tracks, particularly on a curve or at points of restricted clearance.
- Use caution if stepping into active street adjacent to the tracks.

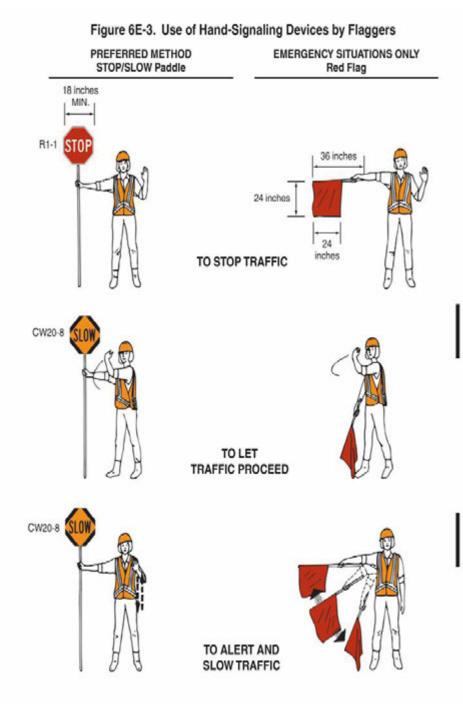


What is a Flagger?

- A Flagger, provided by the Track Access permit holder, will be assigned to each work crew, to protect the members of that crew when working near the streetcar and when streetcar movement is expected.
- Cost for Flaggers will be the sole responsibility of the permit holder.







Flaggers

Hand Signals for Flaggers

	INDICATION	
Swung at Right angle to the track	STOP AND STAY	$\longleftrightarrow \mathbf{\tilde{X}}$
Slight vertical movement, at arms-length, at Right angle to the track	REDUCE SPEED	
Raised and lowered Vertically	PROCEED	
Unclear hand signal, Or arms being waved Frantically	STOP	

/ \



WORK ZONE / REDUCE SPEED AREA



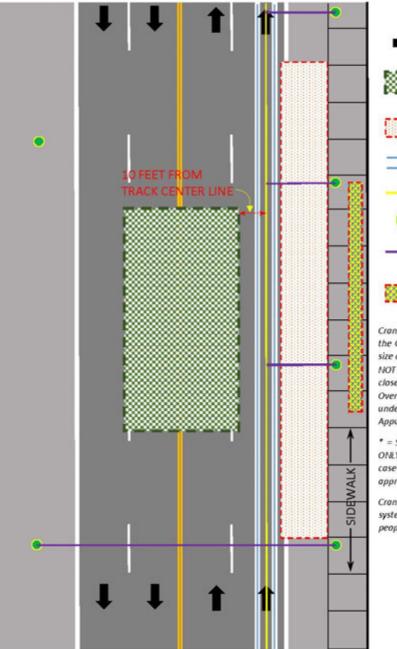
A Flagger is...

- A work crew member meant to protect all workers in the work party.
- Flaggers are dedicated to streetcar safety, vehicles, and pedestrian control.
- Flaggers stations and all Temporary Traffic Control (TTC) shall be in strict accordance with the most recent edition of <u>Texas Manual on Uniform Traffic</u> <u>Control Devices (TMUTCD).</u>



ACTIVITIES ON THE <u>RIGHT OF WAY</u> (ROW)







Crane staging shall only be permissible in the GREEN hatched area. Staging area size and location varies. Crane staging is NOT permissible on roadway shoulder closest to tracks, underneath the Overhead Contact System (OCS) Wire, or under/between any OCS Pole or Appurtenance.

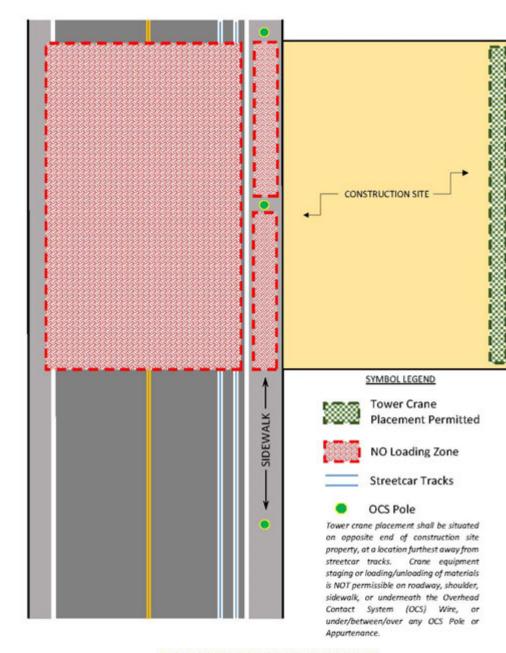
* = Scissor Lift Permissible on sidewalk ONLY under certain circumstances on a case-by-case basis, subject to the approval of El Pasa Streetcar.

Crane shall also mean any aerial lift system or vehicle capable of carrying people or equipment.

Crane Activities



CRANE STAGING ZONES



Crane Activities





SUBMITTAL REQUIREMENTS

Streetcar Zone of Influence

El Paso Streetcar has identified minimum trench safety and excavation requirements for all proposed open trenching or excavations within 25 feet of the track centerline (Streetcar Zone of Influence). Specific design requirements are detailed in Figure H - 1.

General

All drawings and calculations for open trenching shall be prepared, sealed and signed by a Professional Engineer (civil or structural) currently licensed in the State of Texas who has previous experience in the design of trench safety applications.

The designer will be responsible for the accuracy of all controlling dimensions as well as the selection of appropriate materials and systems that accurately reflect the actual field conditions. No open trenching installation within the Streetcar Zone of Influence (25 feet from track centerline) will be allowed until the drawings and calculations are reviewed and accepted by EPSC.

Submittal of forms, drawings and calculations shall be provided to EPSC for review in electronic format transmitted by email, or mail (with CD-R or DVD-R properly labeled). Files shall be Adobe PDF compatible. Each separate document shall be a separate PDF file (drawings, specifications, calculations, forms, etc.).

All submittals, design calculations, specifications and drawings shall be prepared in accordance with a QA/QC process. The QA/QC process may follow the established program of EPSC, Engineer in Responsible Charge firm, or Permittee. At a minimum, the QA/QC process must consist of an independent check of design calculations and an independent QC review of the drawings and specifications prior to submittal to EPSC by qualified individuals. Documentation of the QA/QC process, including names and contact information of independent reviewers, shall be made available to EPSC at their request.

A minimum of <u>FIFTEEN (15) CALENDAR DAYS</u> should be allowed for EPSC's review, provided that all required submittal materials are included and properly identified.

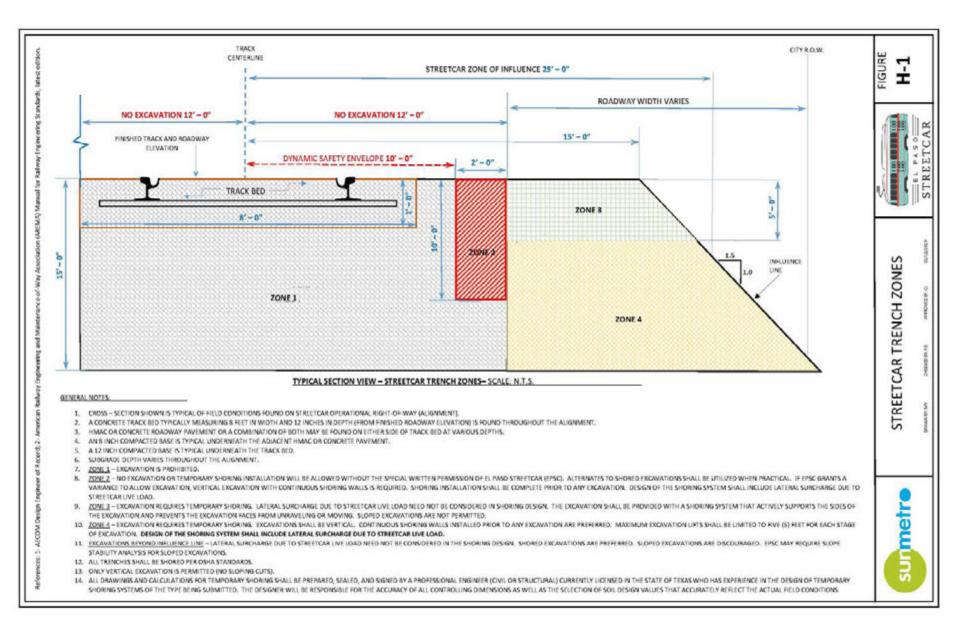
Requirements

Specific requirements concerning open trenching are detailed in Exhibit H1 – Excavation Support Guidelines which are available for download on Sun Metro's website <u>www.sunmetro.net/streetcar</u>.

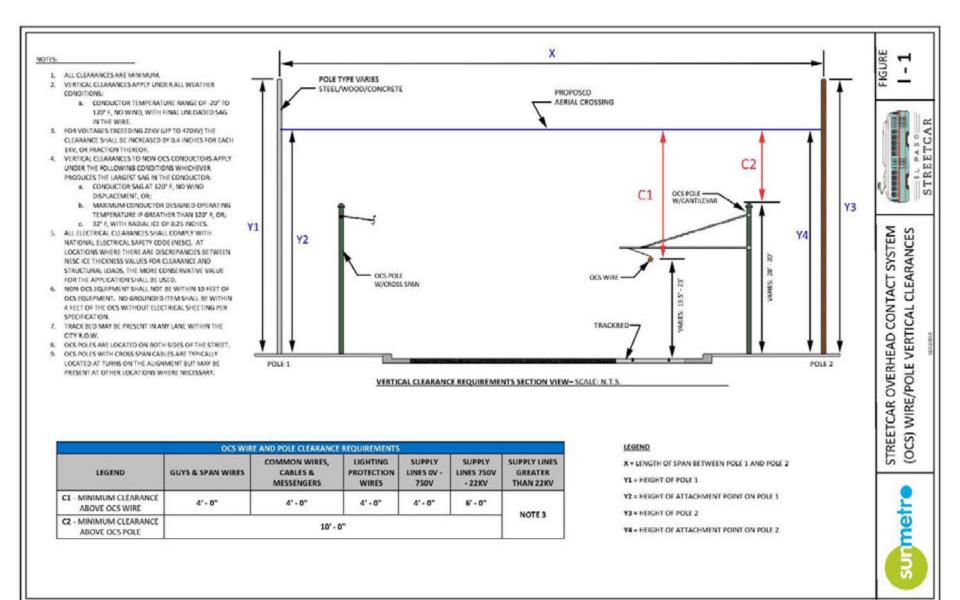
Trenching



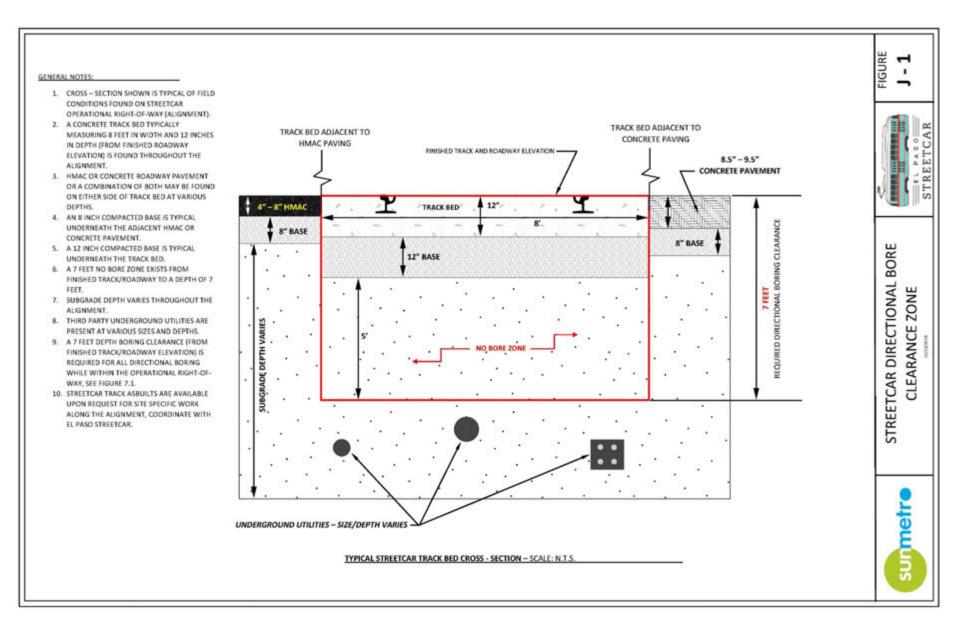
Trenching



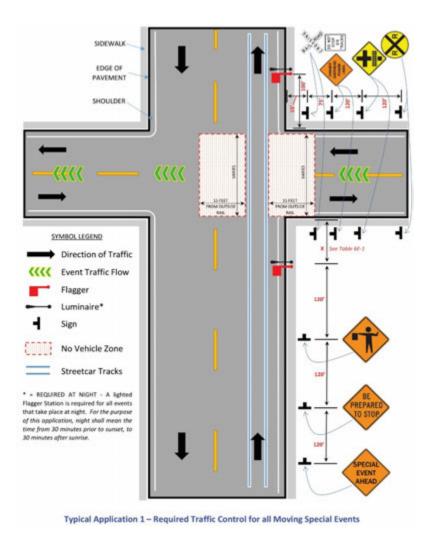
Vertical Clearances



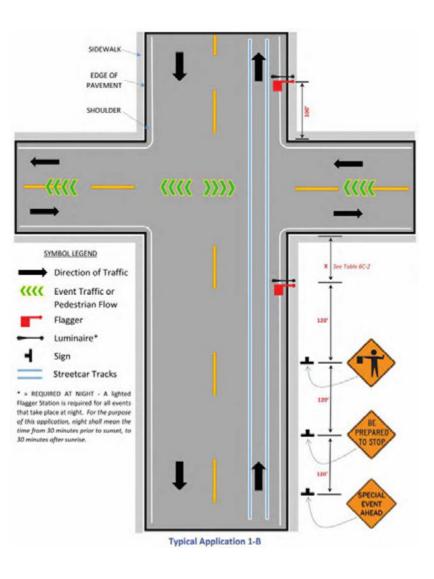
Directional Boring



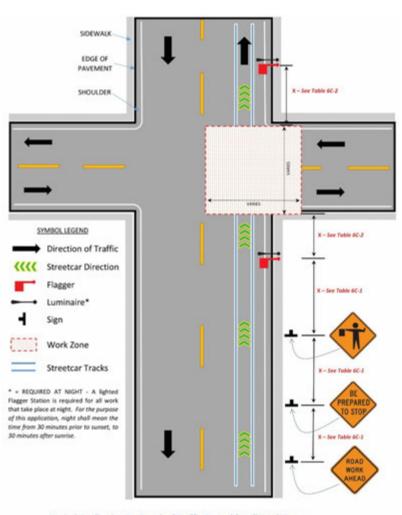
Non-Static (Moving) Special Events within the Streetcar Operational ROW (Revenue Service Hours)



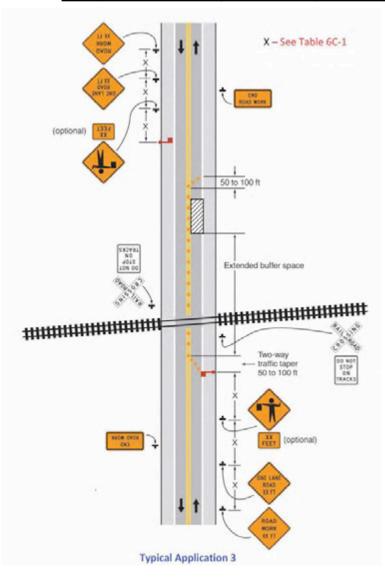
SPECIAL USE ONLY in CONJUNCTION with other Typical Application(s) as Required by Permit Official- (Revenue Service Hours)



Work Zones Within the Streetcar Operational ROW (Revenue Service Hours)

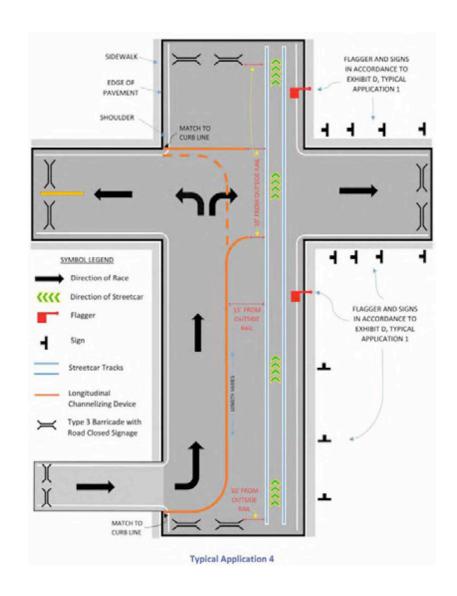


Typical Application 2 - Required Traffic Control for all Work Zones

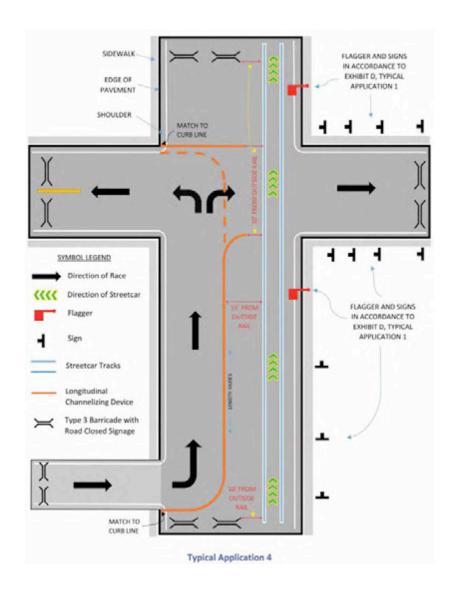


Work Zones within Vicinity of Streetcar Operational ROW

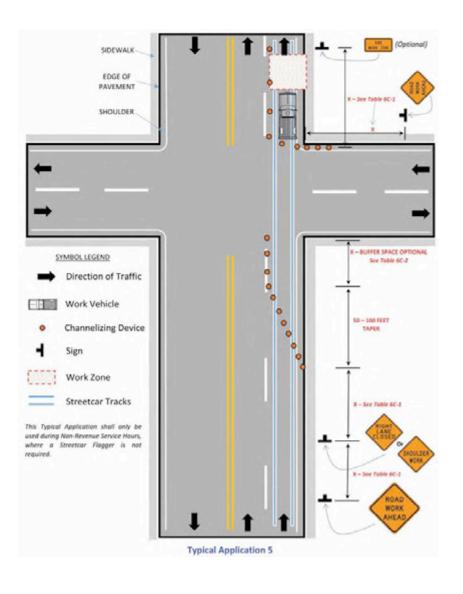
<u>Events (Road Races or Pedestrian Traffic Control) Where Travel Path is on Same</u> <u>Roadway as Operational ROW</u>

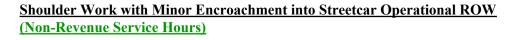


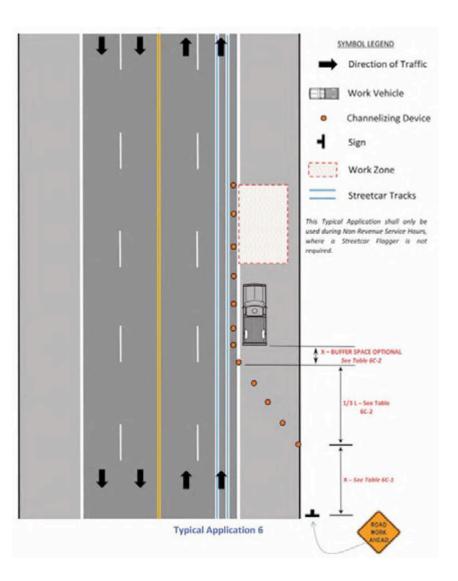
<u>Events (Road Races or Pedestrian Traffic Control) Where Travel Path is on</u> <u>Same Roadway as Operational ROW</u>



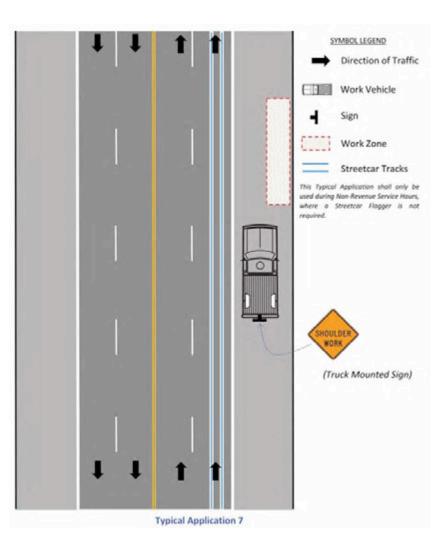
Streetcar Lane Closure on the Far Side of an Intersection (Non-Revenue Service Hours)



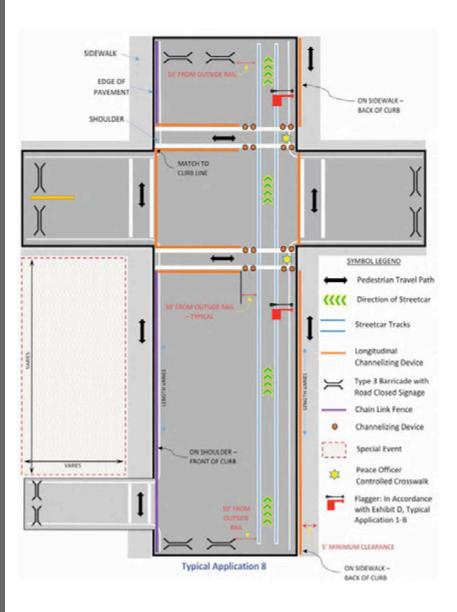




<u>Short Duration or Mobile Operation on a Shoulder or Sidewalk on Streetcar</u> <u>Operational ROW (Non-Revenue Service Hours)</u>







Flagger Stations

Table 6C-1.	Suggested	Advance	Warning	Sign	Spacing

Road Classification	Posted Speed (MPH)	Sign Spacing "X" (Feet)
1	25	100
1	30	120
1	35	160
	40	240
	45	320
Conventional	50	400
Highway	55*	500
- 1	60*	600
	65*	700
	70*	800
	75*	900
	80*	1000
Expressway or Freeway	All Speeds	See Typical Applications (Chapter 6H) **

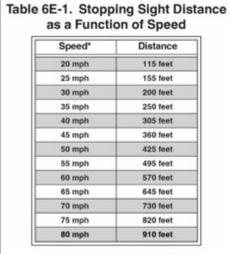
* Distance between signs should be increased to have 1500 feet advance warning (See Section 6C.04.07)

** Distance between signs should be increased to have 1/2 mile or more advance warning. (See Section 6C.04.05)

Table 6C-2.	Longitudinal	Buffer	Space

Speed* (mph)	Length (Feet)
20	40
25	60
30	90
35	120
40	155
45	195
50	240
55	295
60	350
65	410
70	475
75	540
80	615

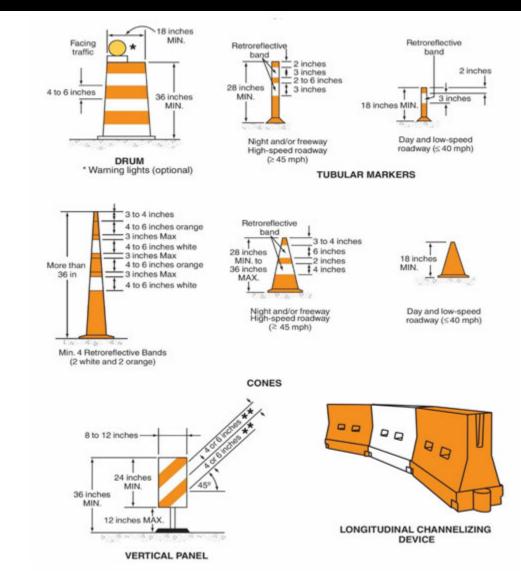
* Posted speed Based upon American Association of state Highway and Transportation Officials (AASHTO) braking distance portion of stopping sight distance for wet and level pavements (A Policy on Geometric Design of Highways and Streets, AASHTO, 2004, P. 112). This AASHTO document also recommends adjustments for the effect of grade on stopping and variation for trucks.



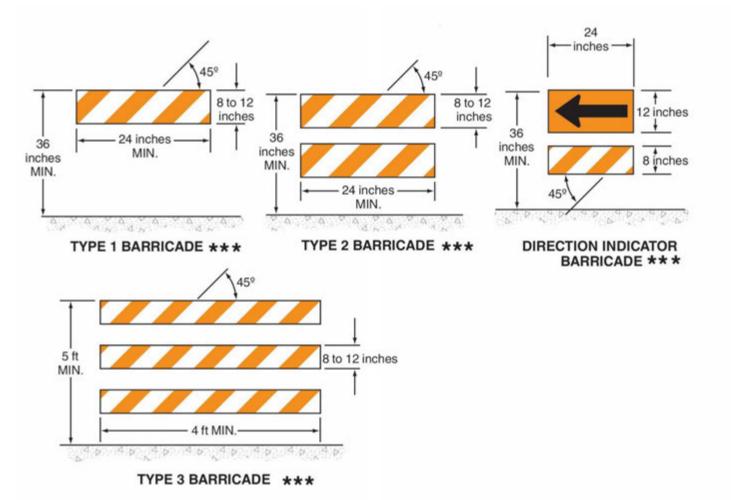
* Posted speed, off-peak 85th-percentile speed prior to work starting, or the anticipated operating speed







Channelizing Devices



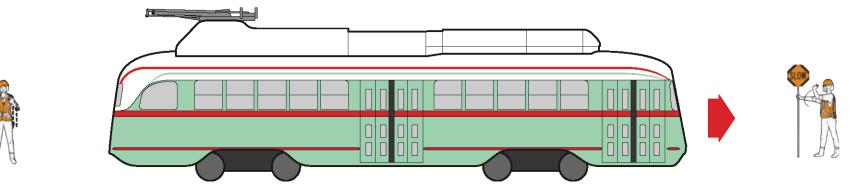
*** Rail stripe widths shall be 6 inches, except that 4-inch wide stripes may be used if rail lengths are less than 36 inches. The sides of barricades facing traffic shall have retroreflective rail faces.

Work Zone

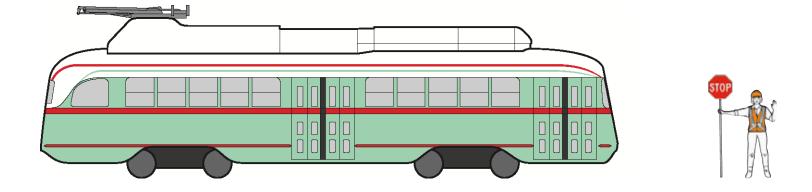
- Area between two flaggers. (yellow and green flags)
- Reduce speed (5 mph)



Reduce speed area

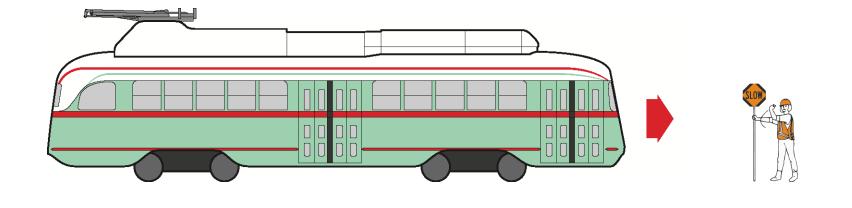


Stop





Proceed





Be Streetcar Safe!

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http://www.sunmetro.net/streetcar https://aca-prod.accela.com/ELPASO/Default.aspx

(Citizen Access)

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