



**California Traffic Control Devices Committee (CTCDC)  
Agenda Item Report**



<b>Meeting Date:</b> May 2, 2024 <b>Item Number:</b> 23-09	<b>From:</b> Kevin Murai, Caltrans
<b>Sponsored By:</b> Kevin Murai, Caltrans	<b>Presented By:</b> Johnny Bhullar, Caltrans
<b>Description:</b> Caltrans process in adopting Federal Highway Administration's (FHWA) soon to be issued 11 <sup>th</sup> Edition of the National Manual on Uniform Traffic Control Devices (MUTCD)	

**Recommendation:**

None.

**Agency Making Request/Sponsor:**

Kevin Murai, Caltrans / Kevin Murai, Caltrans

**Background:**

Caltrans process in adopting FHWA's 11<sup>th</sup> Edition of the National MUTCD (released in December 2023) is being shared for informational purposes with traffic control device practitioners in California to solicit input and provide advance details on these upcoming efforts.

Attached is an updated Caltrans timeline for revising the CA MUTCD and achieving substantial conformance with the National MUTCD.

**Attachments:**

Attachment A – National MUTCD 2023 Adoption Review Process



# ATTACHMENT A



California Traffic Control Devices Committee (CTCDC)  
Agenda Item Report



**Attachment A – National MUTCD 2023 Adoption Review Process**

*See Slides on Following Pages*



Traffic Safety Steering Committee Meeting  
Division of Safety Programs



# National MUTCD 2023 Adoption Review Process

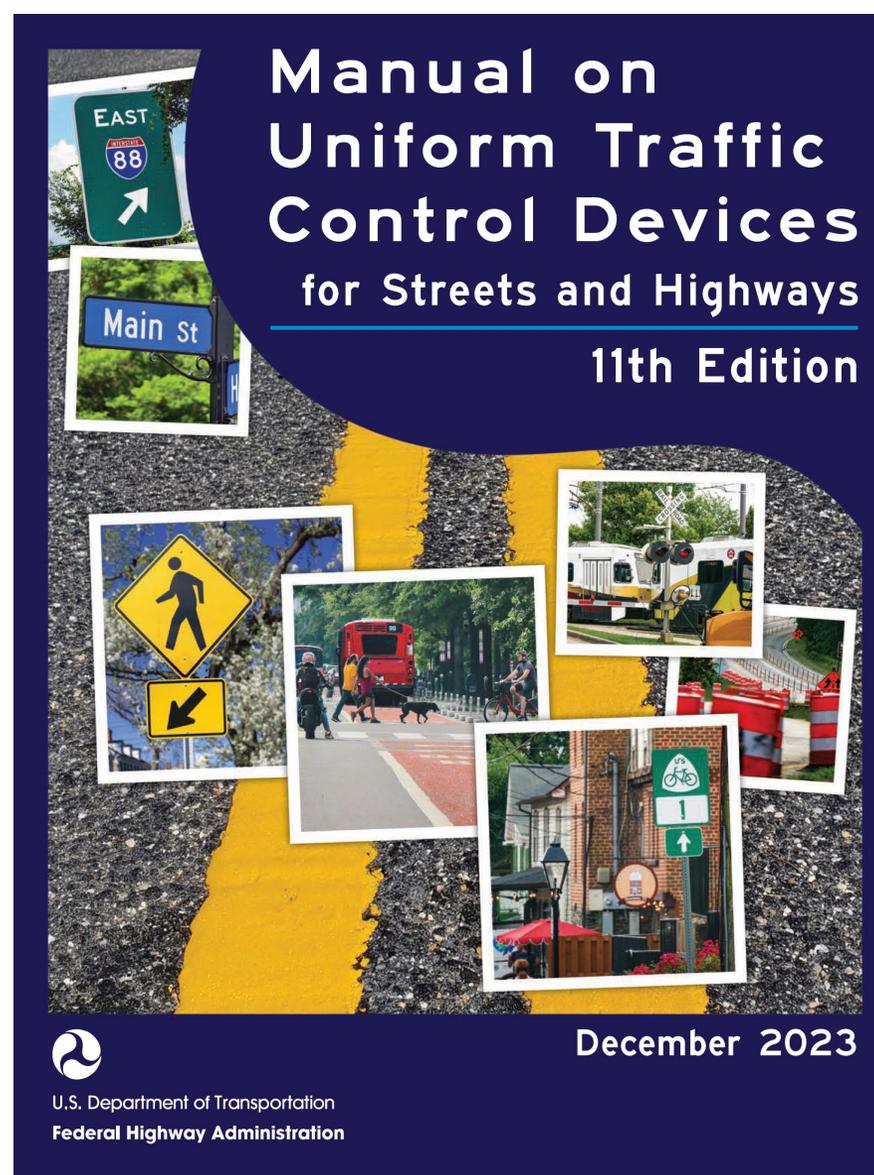
**Johnny Bhullar, Senior TE**

**Office of Safety Systems & Devices  
Headquarters' Division of Safety Programs**

**CTCDC Meeting  
Thursday – May 2, 2024**



# National MUTCD 2023 (11<sup>th</sup> Edition)



MUTCD 11<sup>th</sup> Edition Adoption – CT Review Process

# What's new in the 11<sup>th</sup> Edition

- Rectangular Rapid-Flashing Beacons (RRFB)
- Electric Vehicle Parking & Charging signs
- Bicycle Signs, Bike Boxes & Shared-Lane Markings
- Standardized signing for two-way separated bike lanes
- Bicycle signal faces
- Two-stage bicycle turn boxes
- Pedestrian Accessibility in Work Zones
- Changes to the experimentation process
- Busway, LRT, Sidewalk & Pathway Grade Crossings
- Contextual guidance on speed limit settings with a de-emphasis of the 85<sup>th</sup> percentile in non-freeway or rural highway settings
- Autonomous Vehicles – New Part
- And much more!



MUTCD 11<sup>th</sup> Edition Adoption – CT Review Process

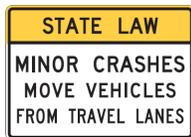
# What's New

Table 1B-1. Target Compliance Dates Established by the FHWA

MUTCD Section(s)	Subject Area	Specific Provision	Compliance Date
2B.64	Weight Limit Signs	Paragraph 14 - requirement for additional Weight Limit sign with the advisory distance or directional legend in advance of applicable section of highway or structure	5 years from the effective date of this edition of the MUTCD
2C.25	Low Clearance Signs (W12-2)	Paragraph 1 - Required posting of the Low Clearance Advance (W12-2) sign in advance of the structure	5 years from the effective date of this edition of the MUTCD
2C.25	Low Clearance Signs (W12-2a, W12-2b)	Paragraph 8 - Recommended posting of Low Clearance Overhead (W12-2a or 12-2b) signs on an arch or other structure under which the clearance varies greatly	5 years from the effective date of this edition of the MUTCD
3A.05	Maintaining Minimum Retroreflectivity	Implementation and continued use of a method that is designed to maintain retroreflectivity of longitudinal pavement markings (see Paragraph 1 of Section 3A.05)	September 6, 2026
8B.16	High-Profile Grade Crossings	Paragraphs 3 and 7 - Recommended installation of Low Ground Clearance and/or Vehicle Exclusion signs and detour signs for vehicles with low ground clearances that might hang up on high-profile grade crossings at locations with a known history	5 years from the effective date of this edition of the MUTCD
8D.09 through 8D.12	Highway Traffic Signals at or Near Grade Crossings	Assessment and determination of appropriate treatment to achieve compliance (preemption, movement prohibition, pre-signals, queue cutter signals)	10 years from the effective date of this edition of the MUTCD



R16-3



R16-4

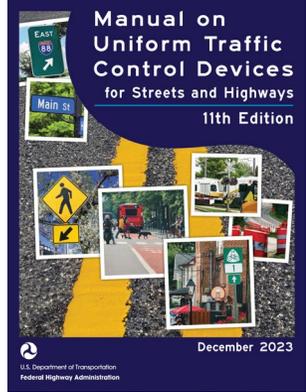
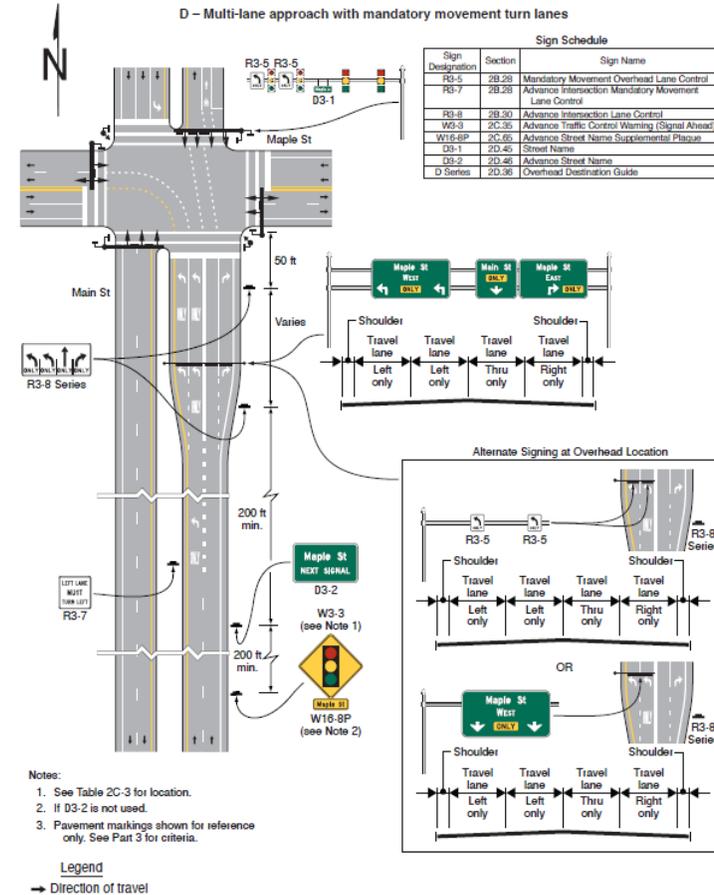


R16-15



R16-15a

Figure 2A-4. Relative Locations of Regulatory, Warning, and Guide Signs on an Intersection Approach (Sheet 3 of 4)



MUTCD 11<sup>th</sup> Edition Adoption – CT Review Process

# What's New

Figure 2C-2. Examples of Warning Signs for Changes in Horizontal Alignment (Sheet 1 of 2)

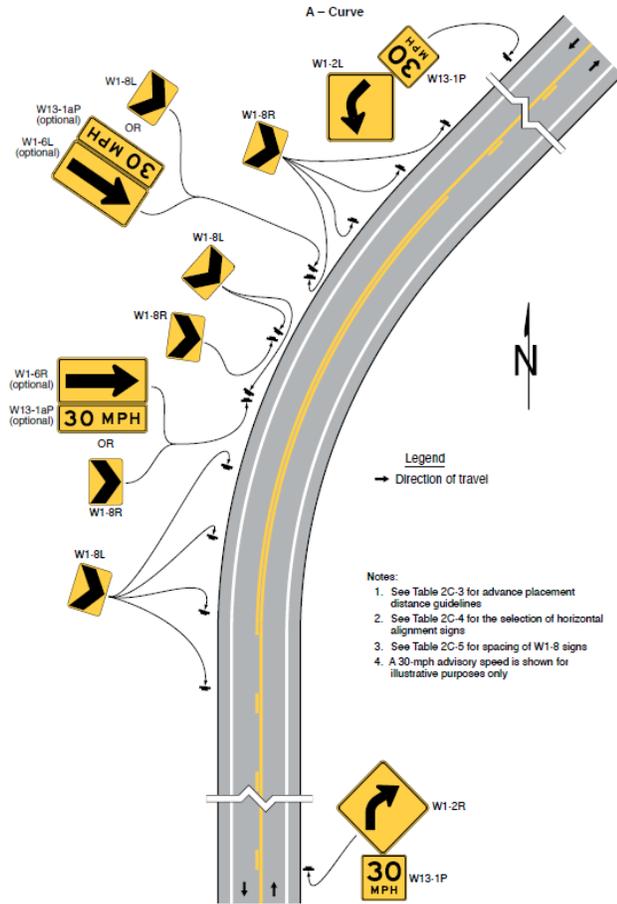
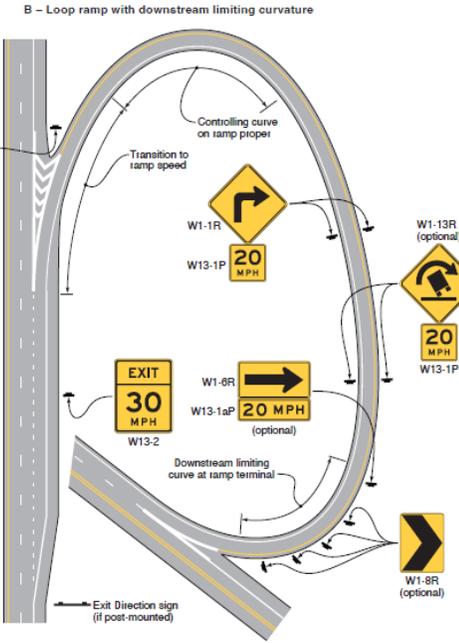


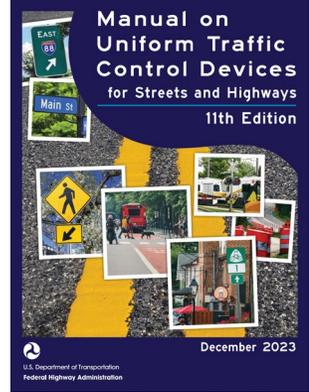
Figure 2C-3. Examples of Exit Ramp Advisory Speed and Other Warning Signs (Sheet 2 of 5)



W13-20



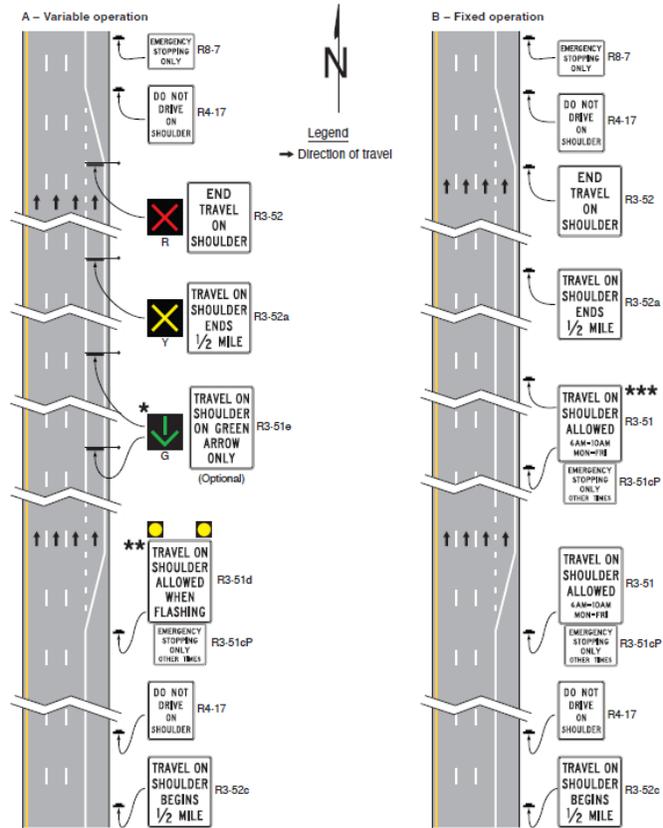
W13-20aP



## MUTCD 11<sup>th</sup> Edition Adoption – CT Review Process

# What's New

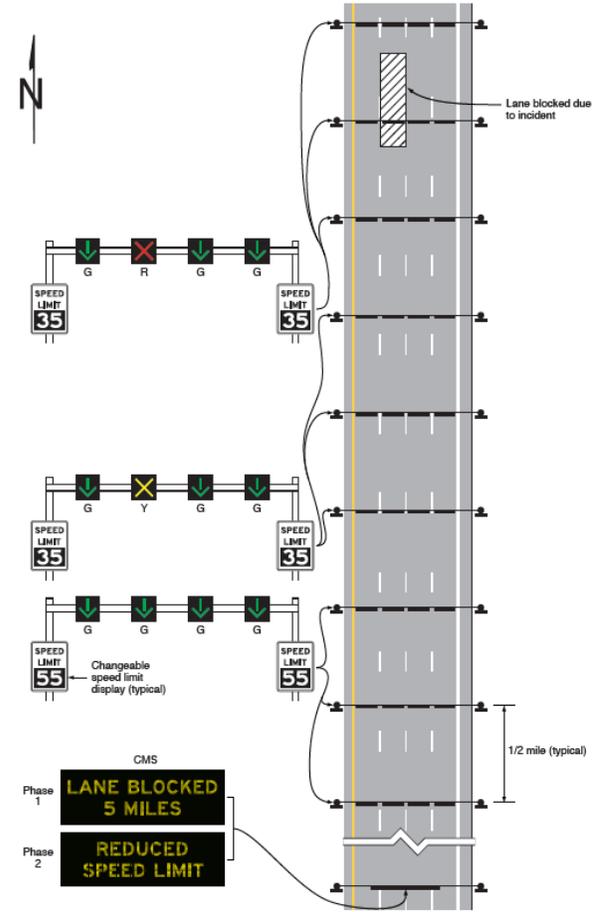
Figure 2G-32. Examples of Signing for Part-Time Travel on a Shoulder (Sheet 1 of 4)



Note: Consideration should be given to using blank-out signs in place of the R3-51 and R3-52 series conventional signs for part-time operations.

- \* Lane-use control signals (see Chapter 4T) located every 1/2 mile or less to reaffirm shoulder travel allowed (DOWNWARD GREEN ARROW) or prohibited (RED X).
- \*\* A post-mounted TRAVEL ON SHOULDER ALLOWED WHEN FLASHING sign (R3-51d) with beacons may be used lieu of lane-use control signals at the same intervals.
- \*\*\* The R3-51 sign is located every 1/2 mile or less to affirm when travel on shoulder is allowed for fixed period applications.

Figure 2G-33. Example of Lane-Use Control Signals and Variable Speed Limit Signs for Active Lane Management During an Incident



# What's New

Figure 3C-1. Crosswalk Markings

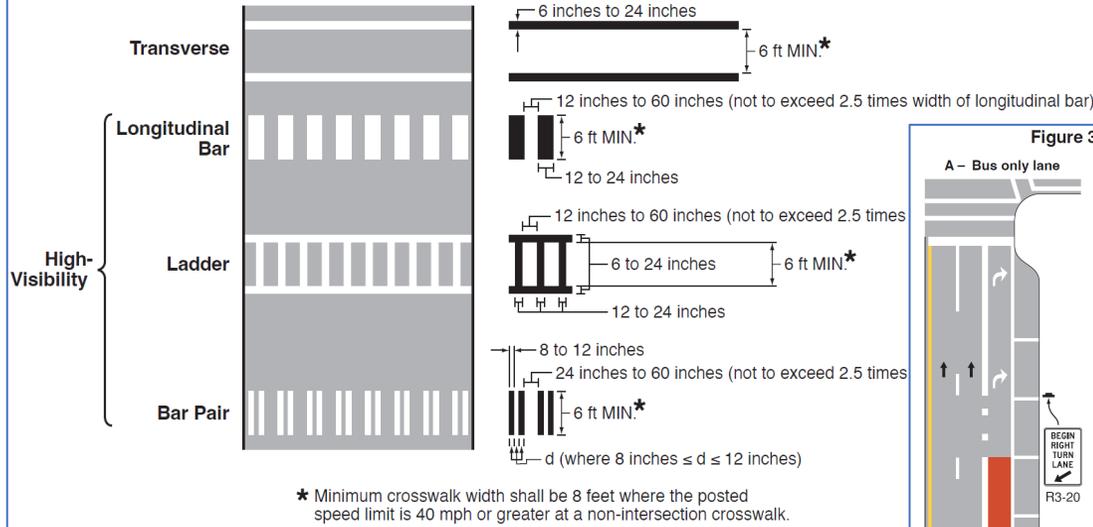


Figure 3H-1. Aesthetic Treatments for Transverse Crosswalks

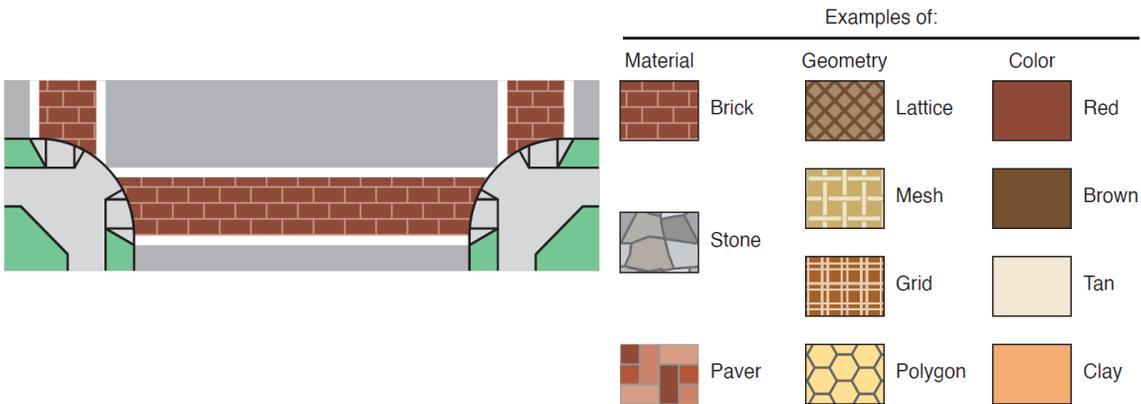
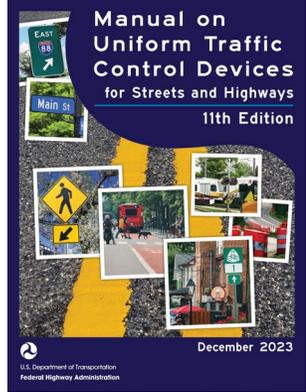
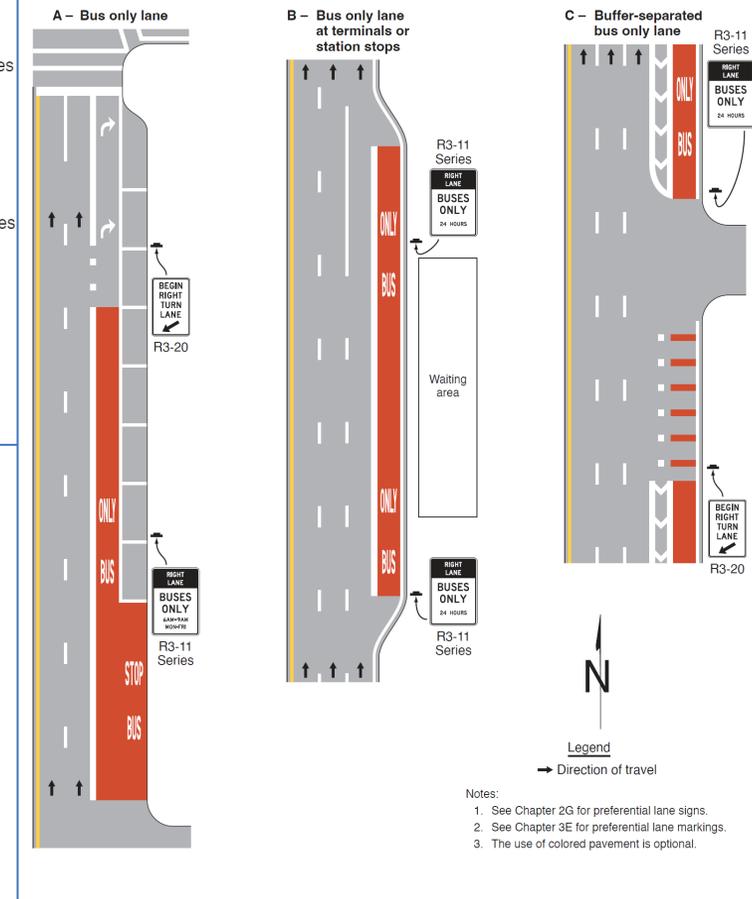


Figure 3H-5. Examples of Red-Colored Pavement Applications



MUTCD 11<sup>th</sup> Edition Adoption – CT Review Process

# Current Manual CA MUTCD 2014 Revision 8

## California Manual on Uniform Traffic Control Devices

FHWA's MUTCD 2009 Edition, including Revisions 1,2,&3 as amended for use in California.

### 2014 Edition

Revision 8 (January 11, 2024)

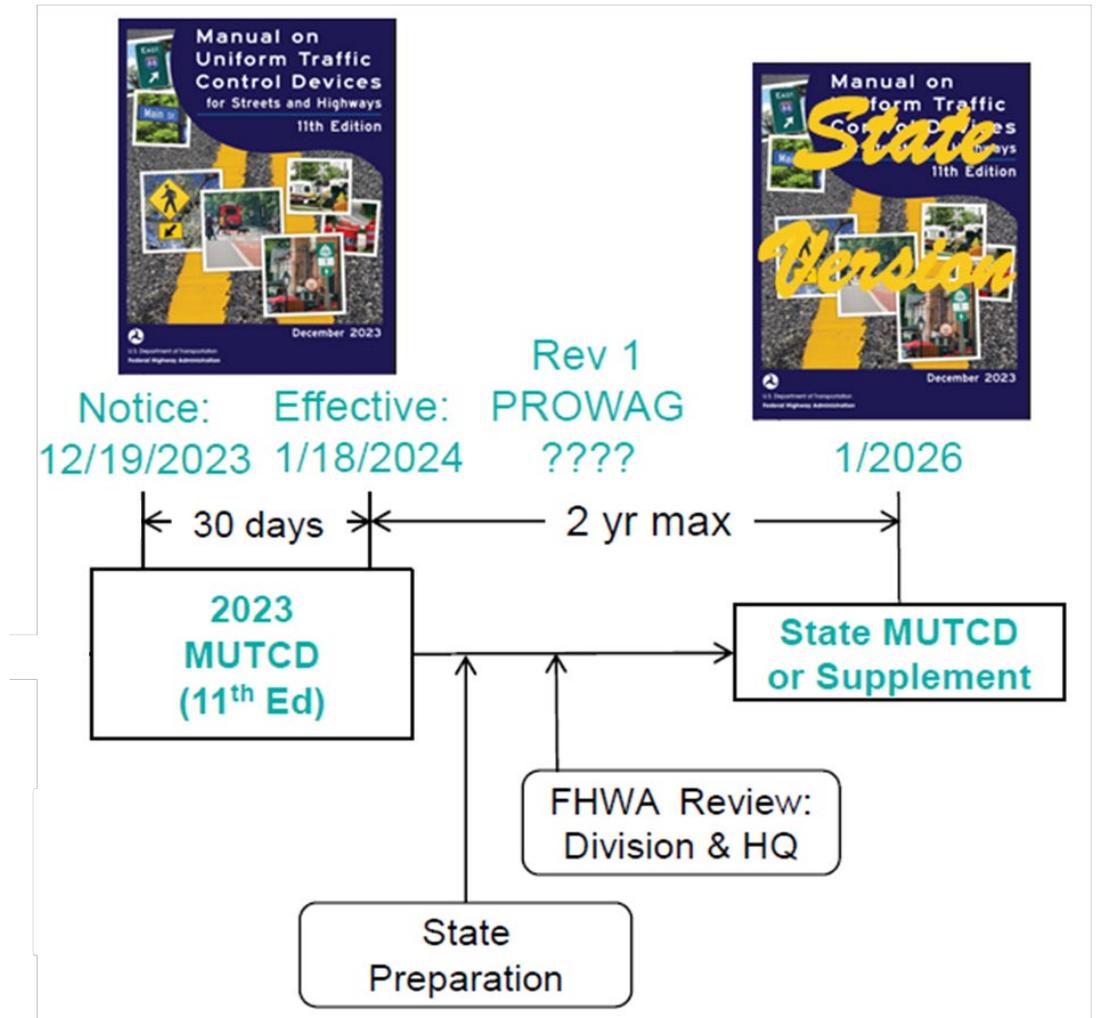
State of California  
California State Transportation Agency  
Department of Transportation



MUTCD 11<sup>th</sup> Edition Adoption – CT Review Process

# The MUTCD 11<sup>th</sup> Edition Adoption Process

- The last version was the 2009 National MUTCD
- Per 23 CFR, California has a 2-year period to have a revised CA MUTCD in substantial conformance with the 11<sup>th</sup> Edition.
- 10 Subject Matter Expert (SME) working groups have been established to review the 11<sup>th</sup> Edition (9 Parts), containing members from State, Local and Private Agencies.



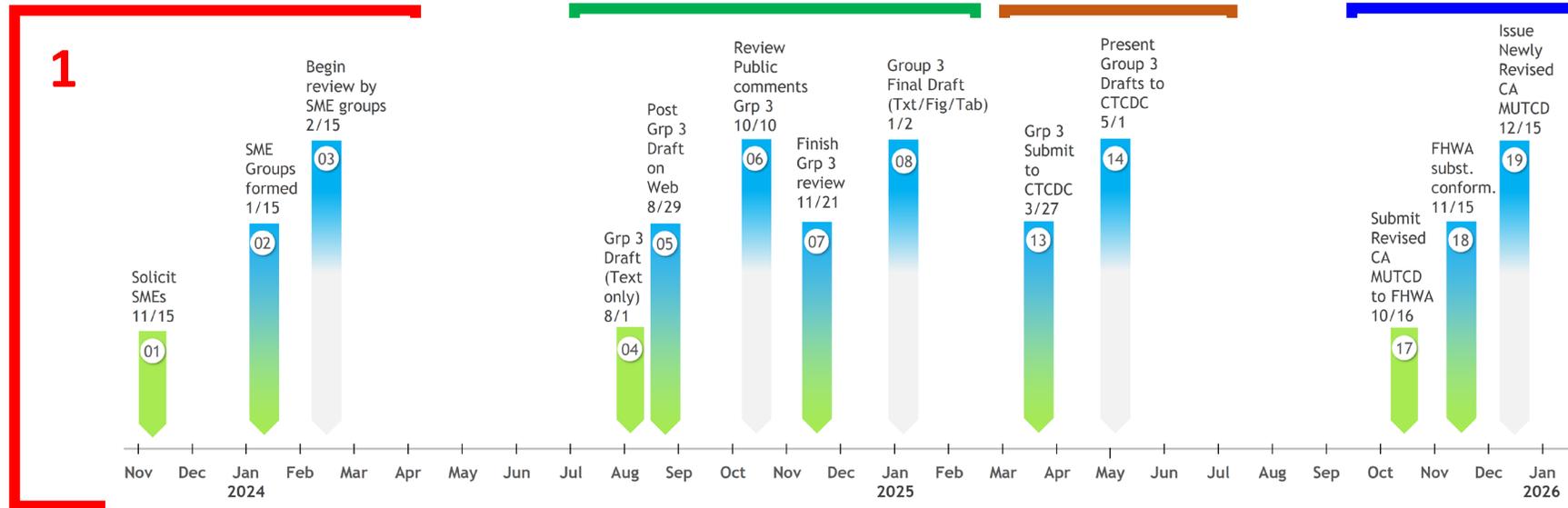
# Subject Matter Expert Workgroup Leads

Work group	National MUTCD 2023 (11th Edition)	Part Owner	CA MUTCD Lead
1	Part 1 - General	Safety Programs	Bob McNew Bryan Luong
2A	Part 2 - Signs (Chp. 2A-2C Reg&Warn, Chp. 2H-2N, General- Emergency Mgmt)	Safety Programs	Bang Hua Sarah Horn
2B	Part 2 - Signs (Chp. 2D-2G Guide, Preferential & Managed Lane)		Mario Lozano Cisneros Sarah Horn
3	Part 3 - Markings	Safety Programs	Tariq Baha Florenca Allenger
4	Part 4 - Traffic Signals	Traffic Operations	Michael Robinson Bhanu Sharma
5	Part 5 - Automated Vehicles	Traffic Operations	Stan Slavin Jaswinder (Sunny) Gill
6	Part 6 - Temporary Traffic Control	Safety Programs	Bryan Luong Florenca Allenger
7	Part 7 - School Areas	Safety Programs	Patrick Lee Florenca Allenger
8	Part 8 - Railroad and Light Rail Transit	CPUC	Kevin Schumacher Chi Cheung To
9	Part 9 - Bicycle Facilities	Safety Programs	Patrick Lee Florenca Allenger



# Stakeholder Engagement

1. SME Workgroup Review – 10 SME groups, 60 professionals (28 Caltrans, 19 private consultants, 7 City, 5 County & 2 CPUC) review National MUTCD
2. Public Review - Statewide practitioners (Local agencies, Private consultants, contractors, vendors, manufacturers, law enforcement, Caltrans districts and public) review CA MUTCD draft open to public
3. CTCDC Review & Public Hearing – League of California Cities, California State Association of Counties, CHP, Caltrans & Auto Club representatives review CA MUTCD final draft
4. FHWA CA Division Review – To determine CA MUTCD final version “substantial conformance” with National MUTCD

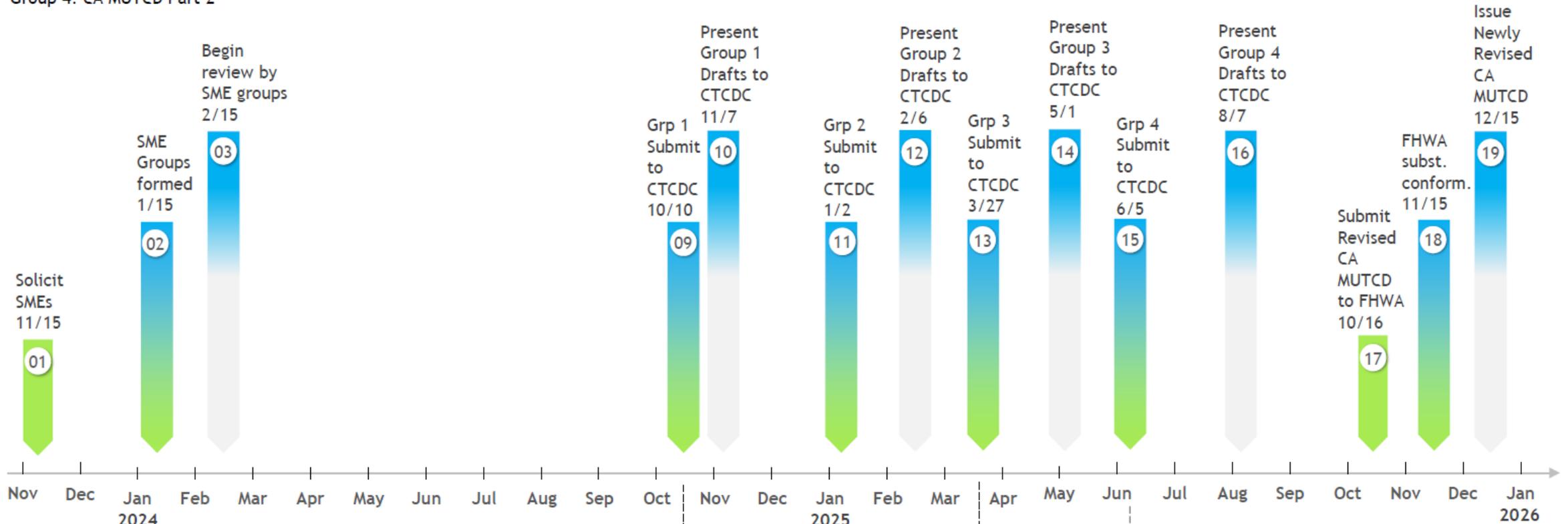


MUTCD 11<sup>th</sup> Edition Adoption – CT Review Process

**NOTE 1**

- Group 1: CA MUTCD Parts 1,5,7
- Group 2: CA MUTCD Parts 3,8,9
- Group 3: CA MUTCD Parts 4,6
- Group 4: CA MUTCD Part 2

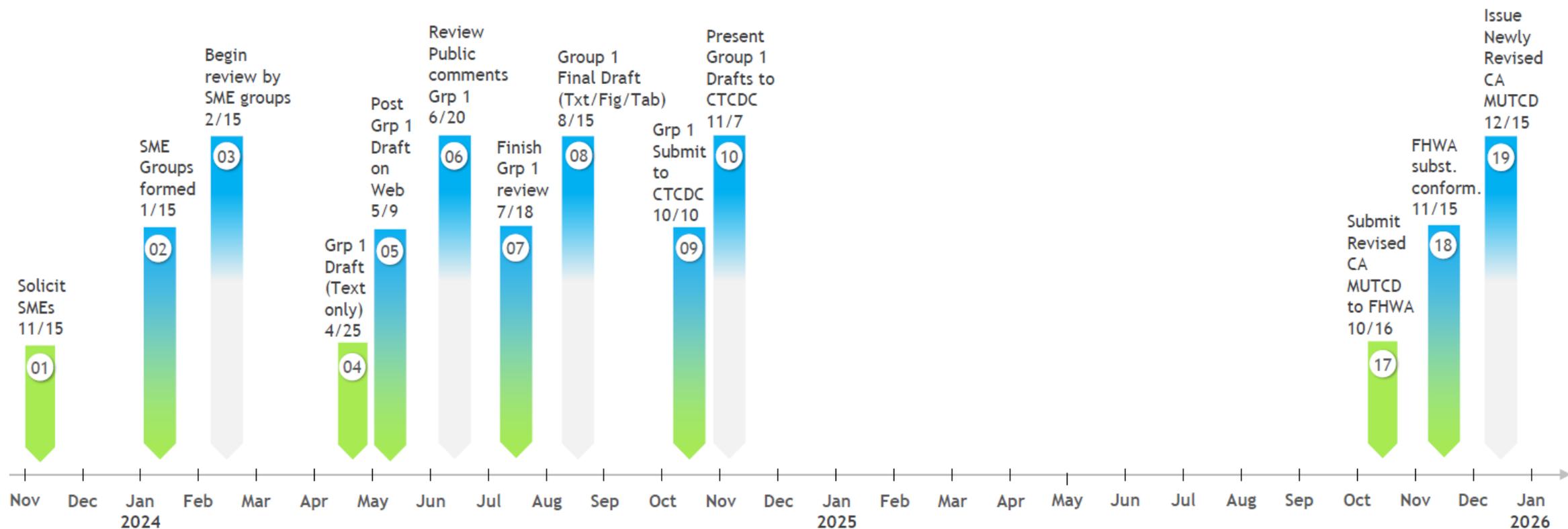
# 11<sup>th</sup> Edition and CA MUTCD Draft Timeline



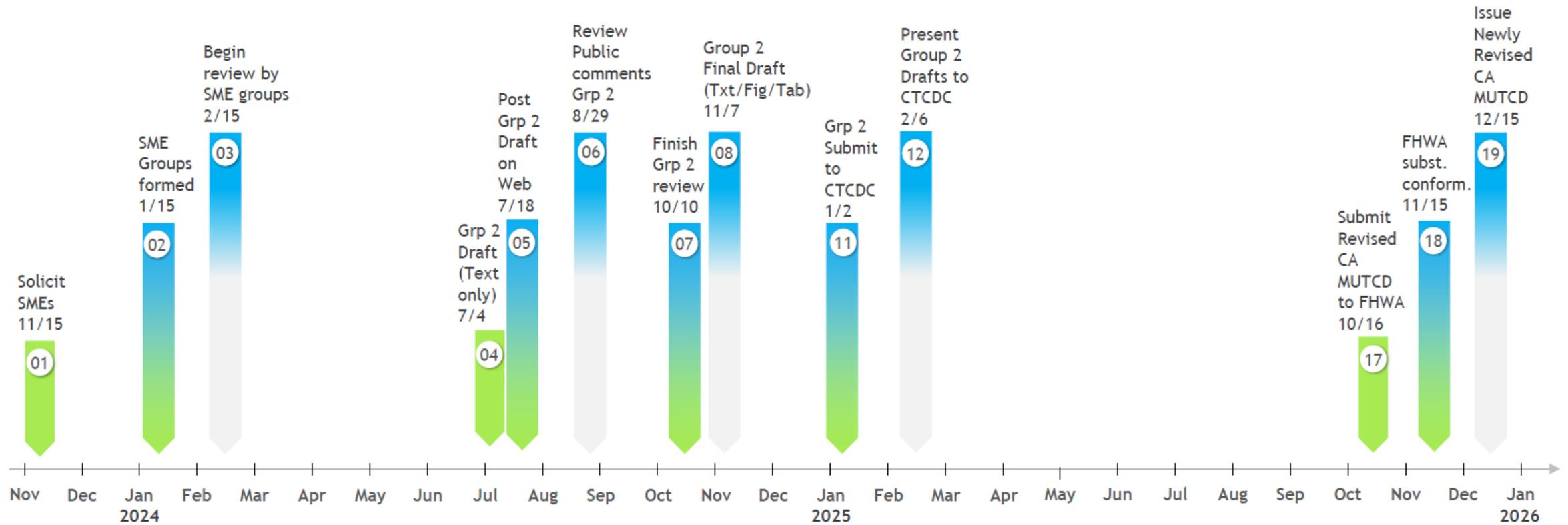
**NOTE 2**

- 04 Draft (Text Only)
- 05 Post Draft (Text Only) on Web
- 06 Review public comments
- 07 Finish review of public comments
- 08 Final Draft (Text/Figures/Tables)

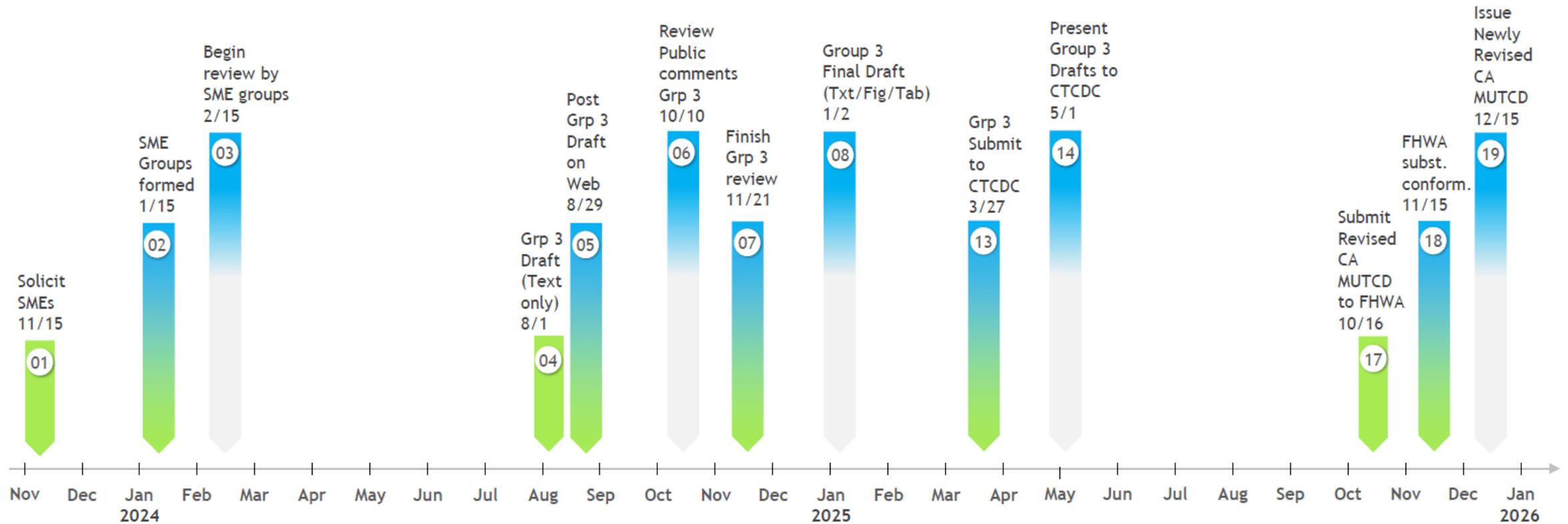
# 11<sup>th</sup> Edition and CA MUTCD (Group 1 - Parts 1,5,7) Draft Timeline



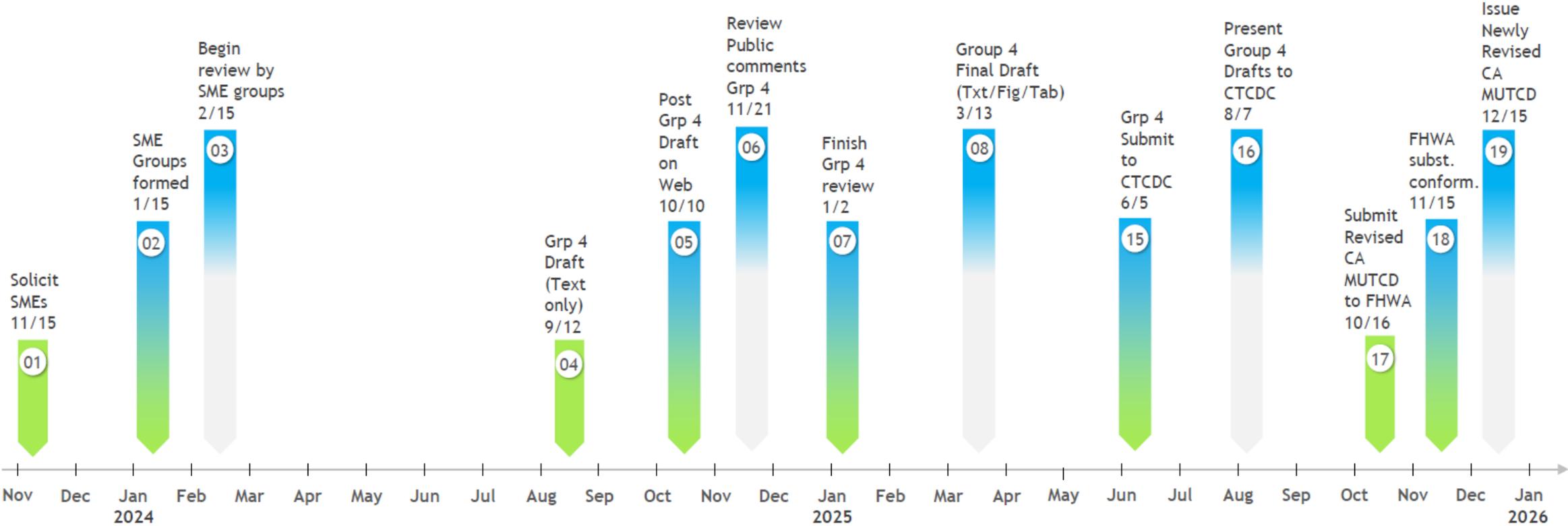
# 11<sup>th</sup> Edition and CA MUTCD (Group 2 - Parts 3,8,9) Draft Timeline



# 11<sup>th</sup> Edition and CA MUTCD (Group 3 - Parts 4,6) Draft Timeline



# 11<sup>th</sup> Edition and CA MUTCD (Group 4 - Parts 2) Draft Timeline



# 11<sup>th</sup> Edition Adoption Next Steps

**Feb 2024 – Apr 2025**

Prepare individual draft revision proposals based on technical workshops and public comments

**Aug 2024 – May 2025**

Finalized revision proposals presented to the California Traffic Control Devices Committee (CTCDC)

**May 2025 – Nov 2025**

Caltrans Management Review and submit newly revised CA MUTCD to FHWA for substantial conformance

**Dec 2025**

Caltrans adopts the National MUTCD 11<sup>th</sup> Edition for California and issues new CA MUTCD



MUTCD 11<sup>th</sup> Edition Adoption – CT Review Process