

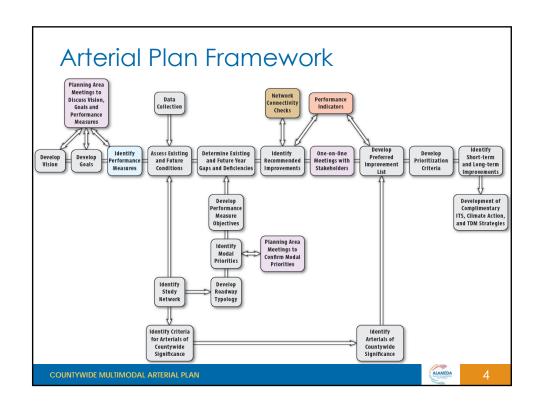
Presentation Overview

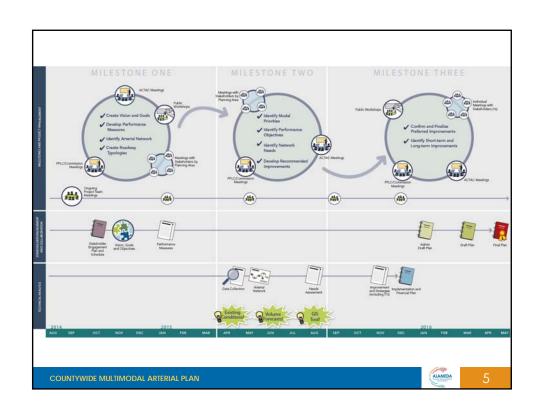
- Arterial Plan Status Update
- Typology Framework and Modal Priorities
- Performance Objectives
- Requested Actions:
 - ✓ Provide Input on Typology Framework and Modal Priorities
 - ✓ Provide Input on Performance Objectives

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Arterial Plan Component	In Progress	Submitted	Approved	Notes	
Vision and Goals		✓	✓	Approved by Commission 2/26/15	
Performance Measures		✓	✓	Approved by Commission 2/26/15	
Draft Typologies		✓		Requested approval – May 2015	
Draft Performance Objectives		✓		Requested approval – May 2015	
Draft Arterial Network Criteria and Maps	✓			Requested approval – June 2015	
Planning Area Meetings	✓			Meetings scheduled: North – 4/20/15 South – 4/21/15 East and Central – 4/22/15	
Non-Agency Stakeholder Meeting	✓			Meeting scheduled 4/20/15	







Streets Typology Development







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Why Streets Typology?

- Creates Street classification system that reflects
 - ✓ Multimodal function of streets
 - ✓ Land use context fronting streets
- Offers more than the traditional street classification systems
 - Provides detail for balancing modes within existing space of urban streets
 - ✓ Defines an integrated modal network
 - ✓ Based on more than vehicular traffic volumes







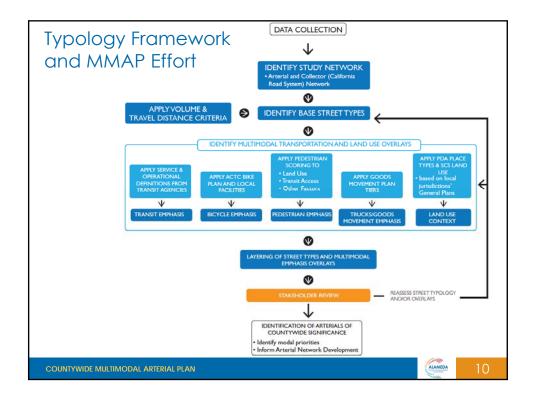
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Typology Framework Components Street Type – based on travel and access

- Street Type based on travel and access characteristics of existing vehicle travel
- Multimodal network overlays Emphasis given to goods movement, transit, bicycles, or pedestrians
- Land use context The built and natural environments that the streets pass through





Using Typology Framework in MMAP Effort

- Informs modal priorities and how to balance them within street right of ways
- Informs appropriate design of key elements
 - ✓ Example: Pedestrian priority street in PDA should have a wider sidewalk than a residential street

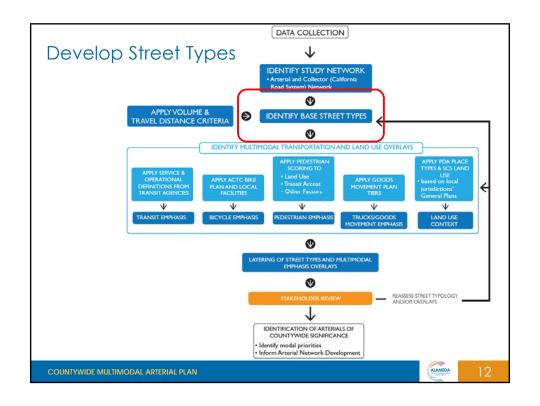




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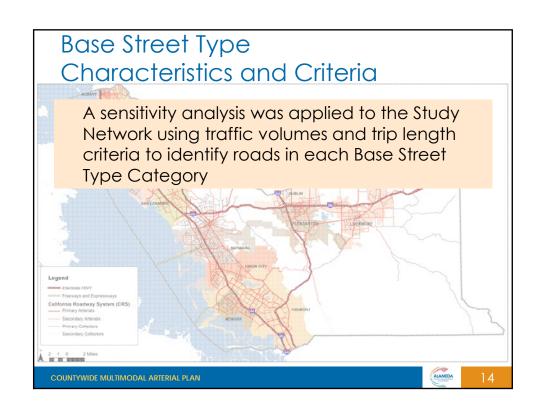
Base Street Type Characteristics and Criteria

Four Base Street Types considered:

- Throughways Focused on carrying traffic through an area
- County Connectors Focused on trips crossing between multiple cities
- City/Community Connectors Focused on trips crossing a city or to an adjacent city
- Neighborhood/District Connectors Focused on trips crossing a neighborhood or district or connecting adjacent ones

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Base Street Type Characteristics and Criteria

- Throughways Focused on carrying traffic through an area
 - Countywide at least 10,000 ADT
 - South & East County at least 55% of volume travels 8+ miles
 - North & Central County at least 50% of volume travels 8+ miles



Base Street Type Characteristics and Criteria

- County Connectors Focused on trips crossing between multiple cities
 - Countywide at least 10,000 ADT
 - South & East County at least 50% of volume travels 6+ miles
 - North & Central County at least 45% of volume travels 6+ miles



Base Street Type Characteristics and Criteria

- City/Community Connectors Focused on trips crossing a city or to an adjacent city
 - Countywide at least 50% of volume travels 4+ miles







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Base Street Type Characteristics and Criteria

- Neighborhood/District Connectors Focused on trips crossing a neighborhood or district or connecting adjacent ones
 - Countywide at least 50% of volume travels less than 4 miles

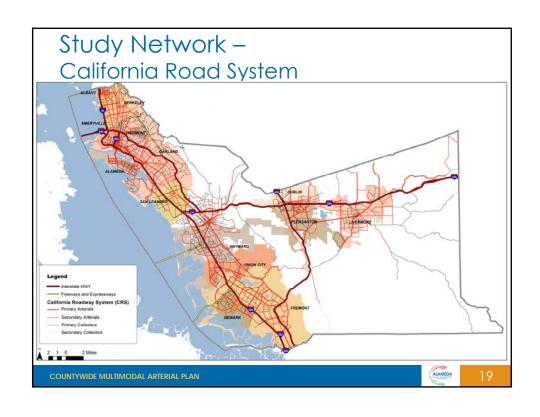


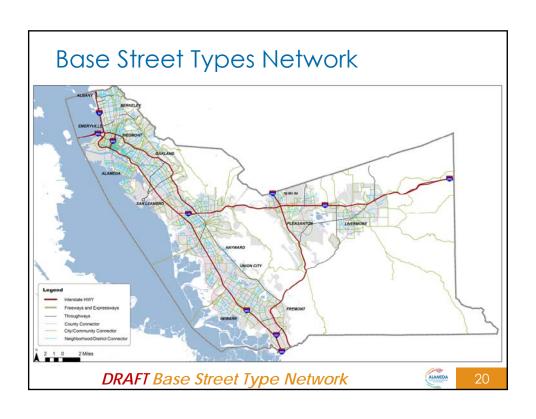


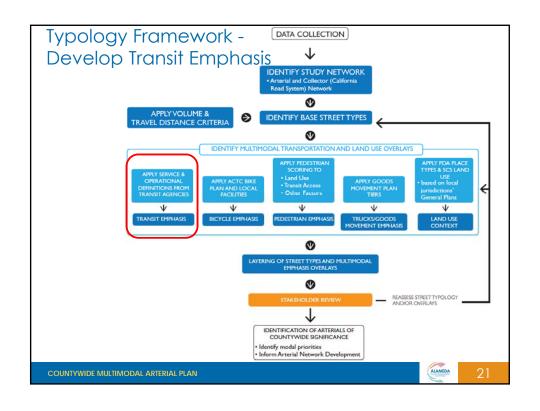


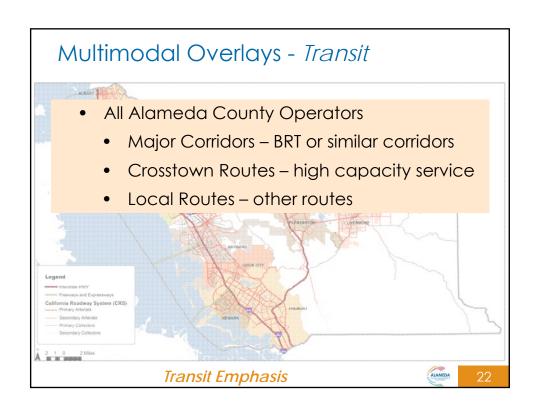
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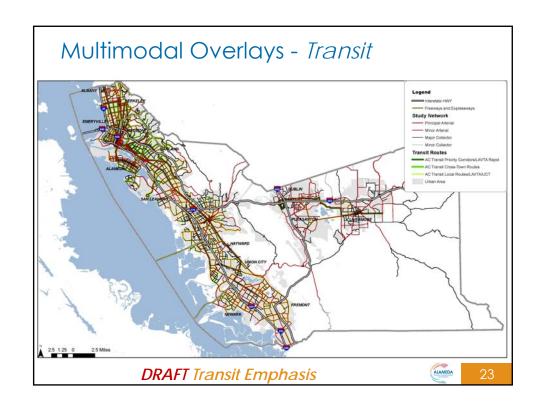
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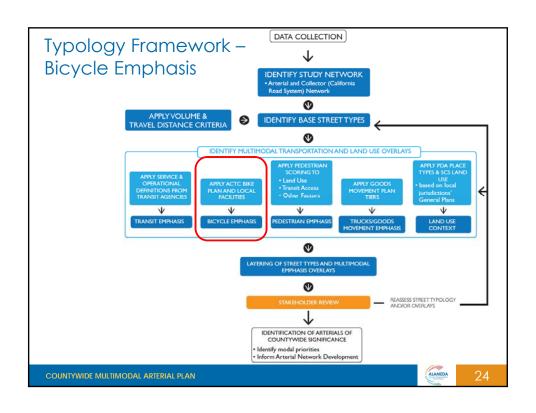




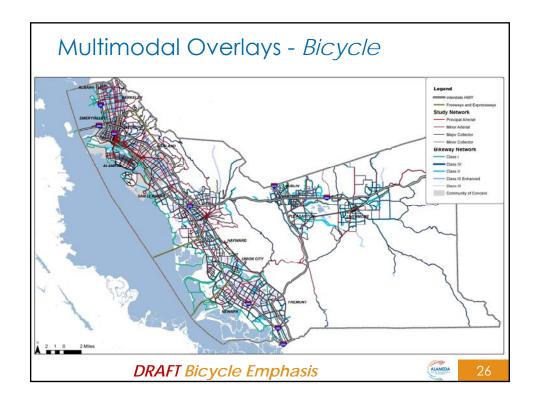


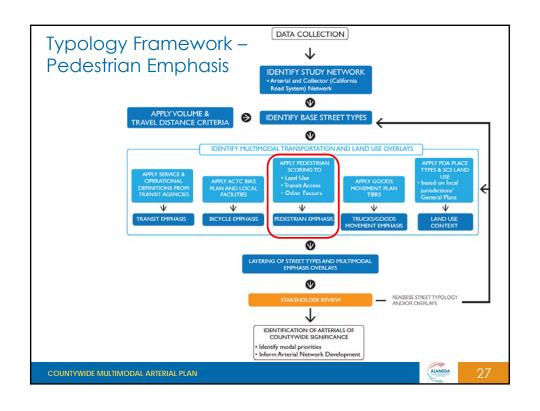


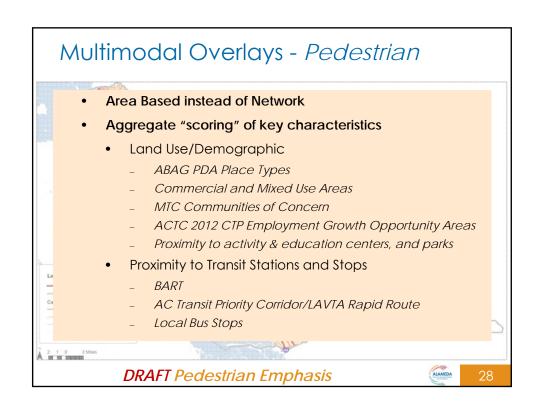




Multimodal Overlays - Bicycle 2012 Countywide Bicycle Plan Vision Network 4 Regional Trails Other Existing Bicycle Facilities Total of five facility classes: Class I - bicycle and multiuse paths Class IV - cycle tracks and similar protected facilities Class II - bicycle lanes, buffered bicycle lanes, and green bicycle lanes Class III Enhanced - bike boulevards and similar enhanced bike routes Class III - bike routes, sharrows, shoulders, and curb lanes





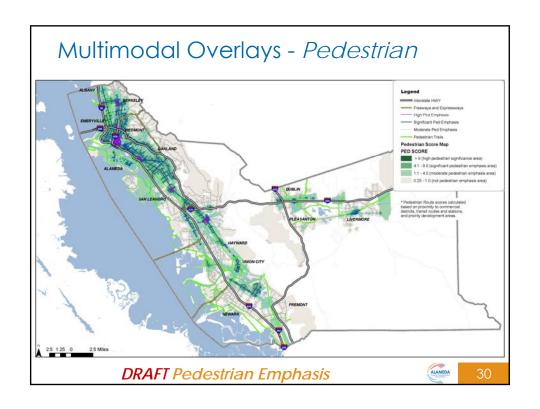


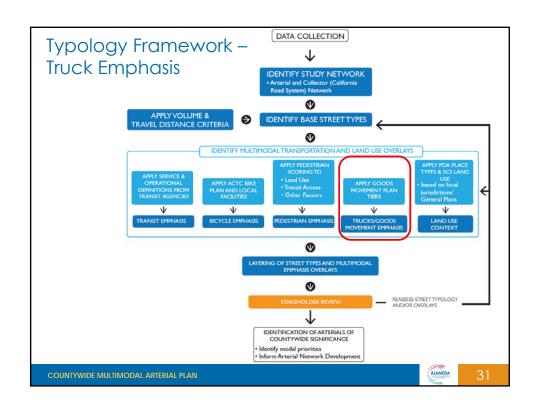
Multimodal Overlays - Pedestrian

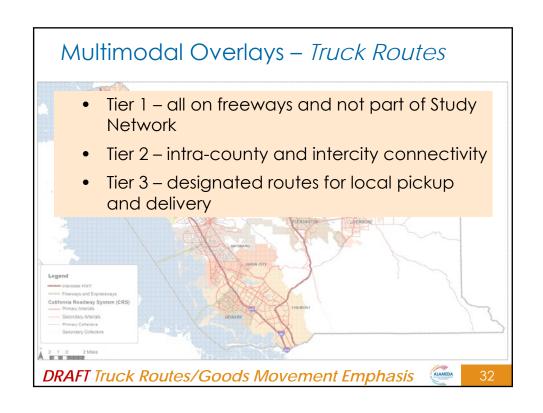
- Score assignment and emphasis identification
 - Land use scores vary by intensity
 - ✓ Regional PDA Type scores higher than Sub-urban type
 - ✓ Downtown Mixed Use score higher than neighborhood commercial
 - Transit proximity score based on distance
 - ✓ Area within quarter-mile radius score higher than area within half-mile
 - Overlaid all scoring categories and estimated cumulative scores indicate areas of High,
 Significant and Moderate Pedestrian Emphasis.

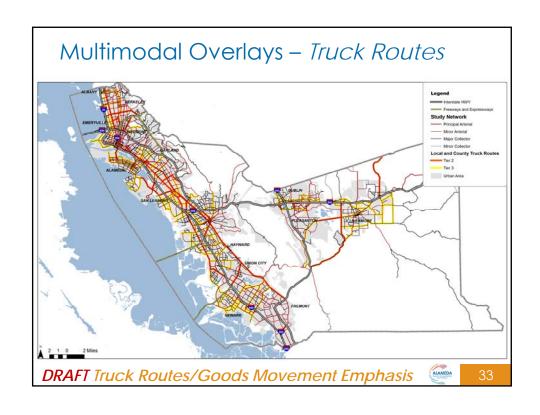
DRAFT Pedestrian Emphasis

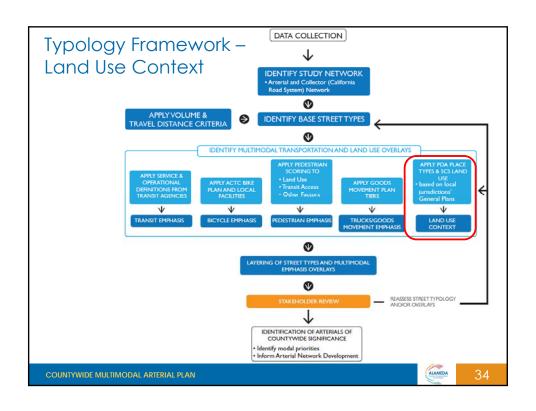




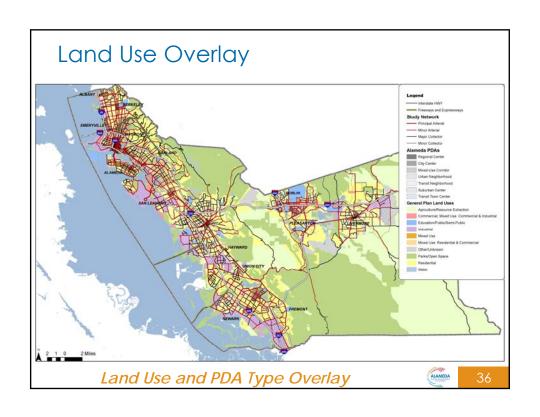


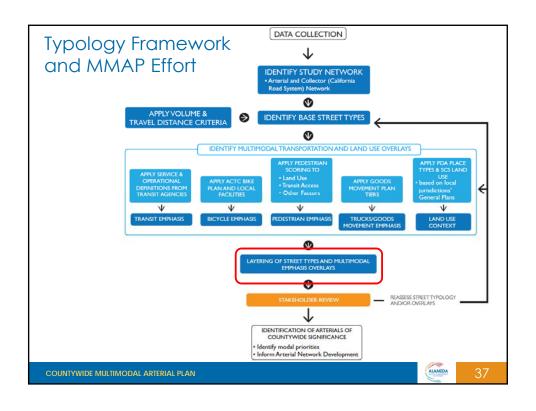


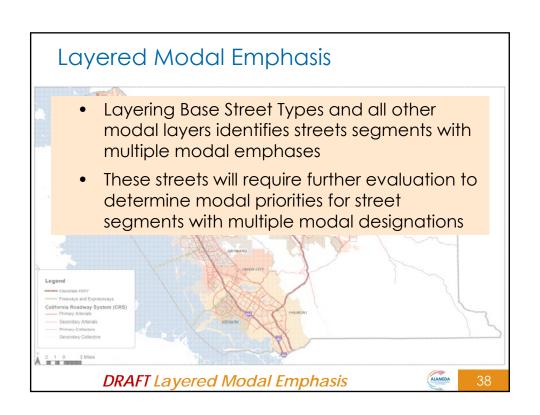


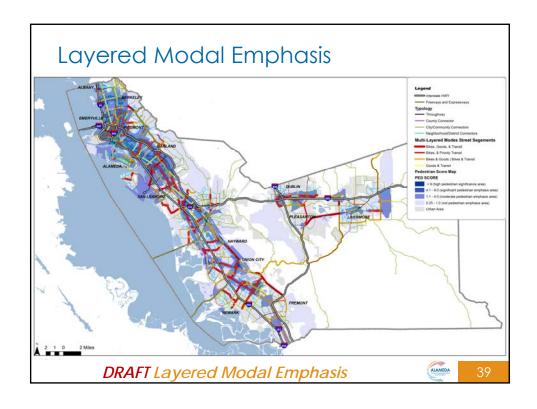


Land Use Overlay Land use overlay informs appropriate contextual design of key elements in street cross section Example: Pedestrian priority street in PDA should have a wider sidewalk than a residential street. Alameda Countywide Transportation Plan SCS ABAG PDA Place Types Regional Center Mixed Use City Center Commercial Business Park/Industrial Suburban Center Industrial Transit Town Center Education/Public/Semi-Public Urban Neighborhood Residential Rural Residential & Open Space Transit Neighborhood Parks/Open Space Agriculture/Resource Extraction Other/Unknown ACTC Multimodal Arterial Study Network









Typology Framework Next Steps

- Discussion at Planning Area and non-agency stakeholder meetings scheduled for April 20 – 22nd.
 - Identify modal priorities
 - Inform Arterial Network development
- All typology, modal emphases and modal overlays are available online for review and comment.
 - http://gis.fehrandpeers.com/AlamedaCTC/Mod alPriorities
 - Username: AlamedaCMAP
 - Password: fpgis_Alameda

COUNTYWIDE MULTIMODAL ARTERIAL PLAN







Plan Components Overview – Role and Utility **Approval** Utility Development Status Vision and Vision lays out the strategic direction for the Plan Approved Goals Goals describe the desired outcome of the Plan. Assess the existing and future transportation conditions of the Study Network against the identified goals. Three types of measures. Performance Measures – Measures that directly assess the segment built environment and planning level operations Performance Performance Indicators - Area-wide measures applied on Approved Measures recommended improvements to assess achieving vision and Network Connectivity Checks - Checks performed to evaluate consistency across the respective modal networks. Thresholds identified for the performance measures that directly Being Performance assess the built environment and planning level operations at facility Discussed Objectives Classify the Study Network roads based on their transportation and access functions, and land use characteristics. Being Typologies Help identify the modal priorities along each Study Network Discussed

Performance Measures Overview

Performance Measures:



- ✓ Facility-specific, assess existing and future year transportation conditions
- Performance Indicators:
 - ✓ Area-wide, evaluation to ensure that short- and long-term improvements meet the Plan's vision and goals
- Network Connectivity Checks:



 Mapping exercise that evaluates transit, pedestrian, bicycle and truck network connectivity and continuity

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Performance Objectives

- Thresholds applied to existing and future transportation conditions to identify Study Network multimodal needs
- Provide guidance in identifying short-term (year 2020) and long-term (year 2040) improvements
- Vary by modal priority
- Not applicable to performance indicators and network connectivity checks







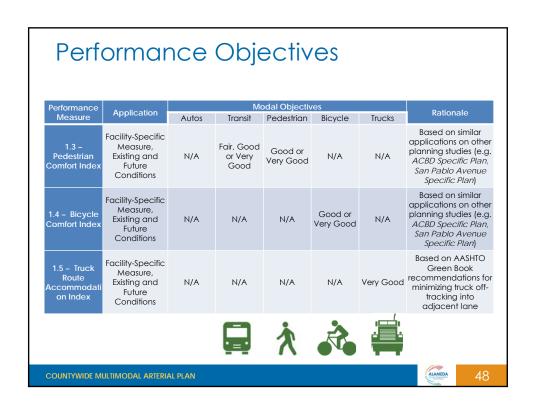




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Performance Objectives erformance Measure Modal Objectives Application Autos Transit Pedestrian Bicycle Trucks Facility-Specific Similar to LOS D > 40% of > 40% of > 40% of Measure, Existing threshold - HCM Congested Speed Posted Posted N/A N/A Posted and Future 2000 Arterial LOS Speed Speed Speed Conditions Method Facility-Specific Similar to LOS D 1.1B -Reliability Measure, Existing threshold – HCM Reliable N/A N/A N/A Reliable 1994 Arterial V/C Conditions Method Facility-Specific Good or Good or Good or Good or Good or Based on MTC's PCI Measure, Existing Very Good Very Goo Condition Index objectives Conditions

Performance Measure	Application		Rationale				
		Autos	Transit	Pedestrian	Bicycle	Trucks	KallOffale
1.2A – Transit Travel Speed	Facility-Specific Measure, Existing and Future Conditions	N/A	> 50% of Auto Speed	N/A	N/A	N/A	Based on average CMP network PM peak hour vehicle speeds and average bus operating speeds
1.2B – Transit Reliability	Facility-Specific Measure, Existing and Future Conditions	N/A	> 0.4 (PM peak hour- to-non- peak hour transit speed ratio)	N/A	N/A	N/A	Based on performance objective for Auto Speed (measure 1.1A)
1.2C - Transit Infrastructure Index		N/A	Good or Very Good	N/A	N/A	N/A	Based on similar applications on other planning studies (e.g. ACBD Specific Plan, San Pablo Avenue Specific Plan)



Next Steps

- Objectives will be presented at the Planning Area and non-agency stakeholder meetings for input
- Based on input the Objectives will be finalized and taken for approval in June
- The approved objectives in combination with the modal priority (from typology) will later inform the modal needs on the Study Network

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