

SUMMARY SHEET FOR TRAFFIC AND ITS

SHEET NO.	ASSET	PERFORMANCE MEASURE	WORKSHEET REF. NO.
T-1	Long Line Pvmt. Markings	Present, visible	na
T-2	Words and Symbols	Present, visible	na
T-3	Pavement Markers	Present and reflective	na
T-4	Ground Mounted Signs (including lights)	Visible and legible	na
T-5	Overhead Signs	Visible and legible	na
T-6	Traffic Signal Systems	Composite score (Operations)	T-5.1
T-7	Traffic Signals	Composite score (Routine Maintenance)	T-6.1
T-8	Traffic Signals	Composite score (Emergency Response)	T-7.1
T-9	Dynamic Message Sign	Composite score	T-10.1

Glossary

Performance Target - A performance target is a goal or objective for the condition of assets or the road system.

Assessment Method - The method recommended for appraising the asset or activity, I.e. Randon Sample, % of total, 100% assessment, etc

Does Assessment Data Exist - Does the data exist and at what level.

Desired Level of Survey - Should the assessment be conducted down to the various management levels.

Does Feature Inventory Exist - Does the numerical count of the asset exist in detail and at what management level.

Desired Level of Feature Inventory - Should detail information exist for the numerical count of the asset and at what management level.

Functional Work Group Worksheet

T-1

Element: Traffic & ITS

Asset: Long Line Pavement Markings

Activities: Present, visible and reflective

Condition Indicator: Present & visible

Performance Measure: Percent of linear feet (LF) in segment that meets the condition indicator

Work Plan Focus Area: Transportation Safety

LOS Category	LOS Description
A	Greater than 90% of LF of markings meets the condition indicator
B	Between 85% and 90% of LF of markings meets the condition indicator
C	Between 80% and 84% of LF of markings meets the condition indicator
D	Between 75% and 79% of LF of markings meets the condition indicator
F	Less than 75% of LF of markings meets the condition indicator

	Statewide	Regional	Subregional	Division	County
Performance Target	A	B	C		
Assessment Method	MCA	MCA	MCA		
Does Assessment Data exist	YES/NO*	YES/NO*	YES/NO*	YES/NO*	YES/NO*
Desired level of survey	Bi-Ann	Bi-Ann	Bi-Ann	YES	YES
Does Feature Inventory exist	NO	NO	NO	NO	NO
Desired level of Feature Inventory	NO	NO	NO	NA	NA

MCA= Maintenance Condition Assessment

YES/NO* = Data exists for present and visible via Maintenance Condition Assessment (MCA) in a daytime review; however, data for NS for reflectivity does not exist

Functional Work Group Worksheet

T-2

Element: Traffic & ITS

Asset: Words and Symbols

Activities: Present & visible

Condition Indicator: Present & visible

Performance Measure: Percent of words or symbols in segment that meets the condition indicator

Work Plan Focus Area: Transportation Safety

LOS Category	LOS Description
A	Greater than 90% meets the condition indicator
B	Between 85% and 90% meets the condition indicator
C	Between 80% and 84% meets the condition indicator
D	Between 75% and 79% meets the condition indicator
F	Less than 75% meets the condition indicator

	Statewide	Regional	Subregional	Division	County
Performance Target	A	B	C		
Assessment Method	MCA	MCA	MCA		
Does Assessment Data exist	YES/NO*	YES/NO*	YES/NO*	YES/NO*	YES/NO*
Desired level of survey	Bi-Ann	Bi-Ann	Bi-Ann	YES	YES
Does Feature Inventory exist	NO	NO	NO	NO	NO
Desired level of Feature Inventory	NO	NO	NO	NA	NA

MCA= Maintenance Condition Assessment

YES/NO* = Data exists for present and visible via Maintenance Condition Assessment (MCA) in a daytime review; however, data for NS for reflectivity does not exist

Functional Work Group Worksheet

T-3

Element: Traffic & ITS

Asset: Pavement Markers

Activities: Present & visible

Condition Indicator: No more than two markers in a row missing

Performance Measure: Percent of sections that meet the condition indicator

Work Plan Focus Area: Transportation Safety

LOS Category	LOS Description
A	Greater than 90% of LF of markers meets the condition indicator
B	Between 85% and 90% of LF of markers meets the condition indicator
C	Between 80% and 84% of LF of markers meets the condition indicator
D	Between 75% and 79% of LF of markers meets the condition indicator
F	Less than 75% of LF of markers meets the condition indicator

	Statewide	Regional	Subregional	Division	County
Performance Target	A	B	NA	NA	NA
Assessment Method	MCA	MCA			
Does Assessment Data exist	YES/NO*	YES/NO*		YES/NO*	YES/NO*
Desired level of survey	Bi-Ann	Bi-Ann			
Does Feature Inventory exist	NO	NO		NO	NO
Desired level of Feature Inventory	YES	YES		NA	NA

MCA= Maintenance Condition Assessment

YES/NO* = Data exists for present via Maintenance Condition Assessment (MCA) in a daytime review; however, data for NS for reflectivity does not exist

Warrant = 4000 ADT

Do not include roads that warrant but do not have in assessment

Functional Work Group Worksheet

T-4

Element: Traffic & ITS

Asset: Ground Mounted Signs

Activities: Visible and Legible

Condition Indicator: Present, visible, legible and reflective at night

Performance Measure: Percent of signs that meet the condition indicator

Work Plan Focus Area: Mobility

LOS Category	LOS Description
A	Greater than 90% meets the condition indicator
B	Between 85% and 90% meets the condition indicator
C	Between 80% and 84% meets the condition indicator
D	Between 75% and 79% meets the condition indicator
F	Less than 75% meets the condition indicator

	Statewide	Regional	Subregional	Division	County
Performance Target	A	B	B	NA	NA
Assessment Method	NS	NS	NS	NS	NS
Does Assessment Data exist	YES	YES	YES	Some	Some
Desired level of survey	Annual	Bi-Ann	Tri-Ann	YES	YES
Does Feature Inventory exist	NO	NO	NO	NO	NO
Desired level of Feature Inventory	NO	NO	NO	NA	NA

R&W = Regulatory & Warning

G = Guide

NS = Nighttime Survey

YES* = Large freeway type signs, ie those with significant replacement costs

Functional Work Group Worksheet

T-5

Element: Traffic & ITS

Asset: Overhead Signs

Activities: Visible and Legible

Condition Indicator: Present, visible, legible and reflective at night

Performance Measure: Percent of signs that meet the condition indicator

Work Plan Focus Area: Mobility

LOS Category	LOS Description
A	Equal to or greater than 92% meet the condition indicator
B	Between 91% and 85% meet the condition indicator
C	Between 84% and 77% meet the condition indicator
D	Between 76% and 70% meet the condition indicator
F	Less than 70% meet the condition indicator

	Statewide	Regional	Subregional	Division	County
Performance Target	A	B	B	NA	NA
Assessment Method	NS	NS	NS	NS	NS
Does Assessment Data exist	YES	YES	YES	Some	Some
Desired level of survey	Annual	Bi-Ann	Tri-Ann	YES	YES
Does Feature Inventory exist	NO	NO	NO	NO	NO
Desired level of Feature Inventory	NO	NO	NO	NA	NA

R&W = Regulatory & Warning

G = Guide

NS = Nighttime Survey

YES* = Large freeway type signs, ie those with significant replacement costs

Functional Work Group Worksheet

T-6

Element: Traffic & ITS

Asset: Traffic Signal Systems

Activities: Signal System Operations

Condition Indicator: Timing Plans & Event Schedules Evaluated Every 18 months

Performance Measure: % of signals that meet condition indicator

Work Plan Focus Area: Mobility

LOS Category	LOS Description
A	Equal to or greater than 90% meet condition indicator
B	Between 80% and 89% meet condition indicator
C	Between 70% and 79% meet condition indicator
D	Between 60% and 69% meet condition indicator
F	Less than 60% meets condition indicator

	Statewide	Regional	Subregional	Division	County
Performance Target	A	A	B	NA	NA
Assessment Method	Sys Logs	Sys Logs	Sys Logs	Sys Logs	Sys Logs
Does Assessment Data exist	YES	YES	YES	YES	YES
Desired level of survey	Annual	Annual	Annual	Annual	NO
Does Feature Inventory exist	YES	YES	YES	YES	YES
Desired level of Feature Inventory	YES	YES	YES	YES	YES

Notes:

State owned and maintained only.

Functional Work Group Worksheet

T-7

Element: Traffic & ITS

Asset: Traffic Signals

Activities: Signal Routine Maintenance

Condition Indicator: Repair Loops, Perform Preventative Maintenance, Certify Conflict Monitors

Performance Measure: Composite Score - See Next Page T-6.1

Work Plan Focus Area: Mobility

LOS Category	LOS Description
A	Equal to or greater than 90% meet condition indicator
B	Between 80% and 89% meet condition indicator
C	Between 70% and 79% meet condition indicator
D	Between 60% and 69% meet condition indicator
F	Less than 60% meets condition indicator

	Statewide	Regional	Subregional	Division	County
Performance Target	A	A	B	NA	NA
Assessment Method	SI & Logs	SI & Logs	SI & Logs	SI & Logs	SI & Logs
Does Assessment Data exist	YES	YES	YES	YES	YES
Desired level of survey	Annual	Annual	Annual	Annual	Annual
Does Feature Inventory exist	YES	YES	YES	YES	YES
Desired level of Feature Inventory	YES	YES	YES	YES	YES

SI = Signal Inventory Program

Logs = System Logs

Routine Maintenance

T-7.1

Example Div Y Statewide Tier

Weight	Item	Goal	Total	Actual	Weight	Points
25	Repair Bad Loops	15 days	225	192	0.25	21
25	Perform Preventative Maintenance	Every 6 months	852	600	0.25	18
50	Certify Conflict Monitors	Every 12 months	426	411	0.5	48
Total						87

LOS C

Total = Total # of Items Performed
 Actual = # of Items Performed that Met Goal
 Points = Actual/Total * Weight * 100

Functional Work Group Worksheet

T-8

Element: Traffic & ITS

Asset: Traffic Signals

Activities: Trouble Call Response

Condition Indicator: Respond to Trouble Calls and Replace Missing Displays

Performance Measure: Composite Score - See Next Page T-7.1

Work Plan Focus Area: Mobility

LOS Category	LOS Description
A	Equal to or greater than 90% meet condition indicator
B	Between 80% and 89% meet condition indicator
C	Between 70% and 79% meet condition indicator
D	Between 60% and 69% meet condition indicator
F	Less than 60% meets condition indicator

	Statewide	Regional	Subregional	Division	County
Performance Target	A	A	B	NA	NA
Assessment Method	SI & Logs	SI & Logs	SI & Logs	SI & Logs	SI & Logs
Does Assessment Data exist	YES	YES	YES	YES	YES
Desired level of survey	Annual	Annual	Annual	Annual	Annual
Does Feature Inventory exist	YES	YES	YES	YES	YES
Desired level of Feature Inventory	YES	YES	YES	YES	YES

SI = Signal Inventory Program

Logs = System Logs

Emergency Response

T-8.1

Example: Div X, Statewide Tier

Weight	Item	Goal	Total	Actual	Weight	Points
75	Respond to Trouble Calls	4 hours	290	282	0.4	39
25	Replace Missing Signal or Ped Displays	24 hours	280	210	0.1	8
Total						46

*If no knockdowns - just pro-rate other 2 Items Divisions to track this for now.

LOS F

Total = Total # of Items Performed
 Actual = # of Items Performed that Met Goal
 Points = Actual/Total * Weight * 100

Functional Work Group Worksheet

T-9

Element: Traffic & ITS

Asset: Dynamic Message Signs

Activities: Traveler Info

Condition Indicator: Operational and preventative maintenance performed

Performance Measure Composite Score - See Next Page T-12.1

Work Plan Focus Area: Mobility

LOS Category	LOS Description
A	Equal to or greater than 95% meet condition indicator
B	Between 90% and 94% meet condition indicator
C	Between 80% and 89% meet condition indicator
D	Between 75% and 79% meet condition indicator
F	Less than 75% meets condition indicator

	Statewide	Regional	Subregional	Division	County
Performance Target	B	NA	NA		
Assessment Method	Logs	NA	NA		NA
Does Assessment Data exist	NO	NA	NA	NO	NA
Desired level of survey	Annual	NA	NA	Annual	NA
Does Feature Inventory exist	YES	NA	NA	YES	NA
Desired level of Feature Inventory	YES	NA	NA	YES	NA

Dynamic Message Signs

T-9.1

		<i>Example</i>		<i>Division Z Sign #6</i>	
Weight	Item	Total	Actual	Weight	Points
75	% of Time Able to Post Message	46	41	0.75	67
25	Preventative Maintenance Done In Last 6 Months	1	1	0.25	25
				Total	92

Average sign scores within Division.