

ATTACHMENT 1: PERFORMANCE REQUIREMENTS

Table 1-1: Defect Hazard Noncompliance Events

Item No.	Item	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points		Cure Period	Interval of Recurrence
			Mainlanes	All Other Lanes		
1-1.01	Incident response	Respond to and initiate traffic control to secure sites of Incidents, Emergencies, accidents, and other events, situations or circumstances that result in a condition that is unsafe and/or may present a life threatening condition, such as at a minimum, fuel spills, debris, pavement failure (e.g. pot holes, etc.), flooding, guardrail failures, attenuator faults, and other events, situations or circumstances.	15	10	30 Min	30 Min
		Provide all necessary equipment, staff and resources to clean up and open the travel lanes at the sites of Incidents, Emergencies, accidents and other events, situations or circumstances such as, at a minimum, accidents, fuel spills, debris, pavement failure (e.g. pot holes, etc.), flooding, guardrail failures, attenuator faults, and other events, situations or circumstances after release by the Emergency Services agency in order to correct the event, situation or circumstance and provide a safe passage for the traveling public.	15	10	120 Min	Hourly
1-1.02	Roadway operations (broken down or stranded vehicles)	Notify law enforcement of broken down or stranded vehicles in travel lanes and initiate traffic control to secure the site until travel lanes are cleared. Assist in the removal of vehicles from the travel lanes.	10	5	30 Min	Hourly
1-1.03	Roadway surface	Remove and dispose of debris from travel lanes that would potentially cause a safety hazard to the traveling public, including at a minimum, large objects,	15	10	30 Min	30 Min

Item No.	Item	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points		Cure Period	Interval of Recurrence
			Mainlanes	All Other Lanes		
	debris - normal	dead animals and tires.				
1-1.04	Roadway surface debris - extraordinary	Debris too large to be removed within the above timeframe will require that the roadway be closed and then such debris shall be removed from the travel lanes. This closure shall comply with TxDOT standards.	15	10	2 Hours	Hourly
1-1.05	Flexible pavement pot holes or rigid pavement spalls	Manage the Project's pavement and respond with the necessary equipment and personnel to provide a temporary mitigation to any potholes or spalls that would potentially cause a safety hazard to the traveling public.	15	10	60 Min	Hourly
1-1.06	Flooding of travel lane	The travel way, including each ramp, is free from water to the extent that such water would represent a hazard by virtue of its position and depth. No portion of a lane (including any ramp lane) has standing water that exceeds the criteria listed in <u>Section 12</u> of the Technical Provisions that would potentially cause a safety hazard to the traveling public.	15	10	30 Min	Hourly
1-1.07	Guardrail	Maintain the Project's guardrail sections and respond with the necessary equipment and personnel to provide a temporary mitigation to any damaged guardrail that would potentially cause a safety hazard to the traveling public.	10	5	24 Hours	24 Hours
1-1.08	Attenuators	Maintain the Project's attenuator systems and respond with the necessary equipment and personnel to provide a temporary mitigation to any damaged attenuator that would potentially cause a safety hazard to the traveling public.	10	5	24 Hours	24 Hours
1-1.09	Signs (single or multi-post)	Maintain the Project's single and multi-post signs systems and respond with the necessary equipment and personnel to provide a temporary mitigation to any damaged or down signs that would potentially cause a safety hazard to the traveling public.	10	5	2 Hours	Hourly
1-1.10	Traffic signals	Maintain the Project's traffic signal system and respond with the necessary equipment and personnel to provide a temporary mitigation to any damaged, down or malfunctioning traffic signal that would potentially cause a safety hazard to the traveling public.	N/A	5	30 Min	Hourly

Item No.	Item	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points		Cure Period	Interval of Recurrence
			Mainlanes	All Other Lanes		
1-1.11	Highway light poles	Maintain the Project's highway lighting system and respond with the necessary equipment and personnel to provide a temporary mitigation to any damaged or down light poles that would potentially cause a safety hazard to the traveling public.	10	5	60 Min	Hourly
1-1.12	Barrier wall	Maintain the Project's barrier wall sections and respond with the necessary equipment and personnel to provide a temporary mitigation to any damaged barrier wall section that would potentially cause a safety hazard to the traveling public.	10	5	60 Min	Hourly
1-1.13	Bridge/structure impact	Maintain the Project's bridges/structures and respond with the necessary equipment and personnel to provide a temporary mitigation to any damaged bridge/structure that would potentially cause a safety hazard to the traveling public.	20	15	60 Min	Hourly
1-1.14	Pavement failures	Instances of failures do not exceed the failure criteria set forth in the Authority's Pavement Management Rating System, including potholes, base failures, punch-outs and jointed concrete pavement failures.	20	15	24 Hours	24 Hours
<p>Notes:</p> <p>Maintenance Contractor shall assume and execute TxDOT's responsibilities and duties as defined in the current and future agreements with local Governmental Entities along the Project corridor which define the requirements for construction, maintenance, and operation of traffic signal and lighting.</p>						

Table 1-2: Noncompliance Events

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
ASSET CONDITION SCORE						
1-2.01	Asset Condition Score	Maintain the Project to meet or exceed the stated overall Asset Condition Score in any quarterly Audit Inspection, as described in Tables 2 and 3 of this <u>Exhibit 2</u> of the COMA.	An overall Asset Condition Score of at least ____%. If 0.1% points to 2.0% points below such overall Asset Condition Score, then:	4	60 Days	30 Days
			If more than 2.0% points to 4% points below such overall Asset Condition Score, then:	6	60 Days	15 Days
			If more than 4.0% points below such overall Asset Condition Score, then:	8	30 Days	7 Days
		Maintain the Project to meet or exceed the stated Maintenance Element Category Score for any Maintenance Element Category described in Tables 2 and 3 of this <u>Exhibit 2</u> of the COMA, in any quarterly Audit Inspection, as described in Tables 2 and 3 of this <u>Exhibit 2</u> of the COMA.	A Maintenance Element Category Score of at least: <ul style="list-style-type: none"> • ____% for Roadway-asphalt pavement; • ____% for Roadway-concrete pavement; • ____% for Traffic Operations • ____% for Roadside; and • ____% for Bridges. If 0.1% points to 2% points below any such Maintenance Element Category Score, then:	4	60 Days	30 Days
			If more than 2.0% points to 4.0% points below any such Maintenance Element Category Score, then:	6	30 Days	7 Days
		Maintain the Project to meet or exceed the stated Maintenance Element Composite Score for any	A Maintenance Element Composite Score of at least: <ul style="list-style-type: none"> • ____% for any Maintenance Element under the Roadway-asphalt pavement Maintenance 			

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
		individual Maintenance Element described in Tables 2 and 3 of this <u>Exhibit 2</u> of the COMA, in any quarterly Audit Inspection, as described in Tables 2 and 3 of this <u>Exhibit 2</u> of the COMA.	Element Category; <ul style="list-style-type: none"> • ___% for any Maintenance Element under the Roadway-concrete pavement Maintenance Element Category; • ___% for any Maintenance Element under the Traffic Operations Maintenance Element Category • ___% for any Maintenance Element under the Roadside Maintenance Element Category; and • ___% for any Maintenance Element under the Bridges Maintenance Element Category. If 0.1% points to 2% points below any such Maintenance Element Composite Score, then:	4	60 Days	30 Days
			If more than 2.0% points to 4.0% points below any such Maintenance Element Composite Score, then:	6	30 Days	7 Days
MAINTENANCE ELEMENT CATEGORY – ROADWAY						
1-2.02	Pavement - damaged	Inspection of the pavement after major damage such as fire, fuel spill or other incident/event.	Conduct a visual inspection of the affected area.	2	24 Hours	24 Hours
			Provide written recommendation for remedial work to TxDOT within 10 days after the inspection of the affected area.	2	10 Days	24 Hours
			Complete repairs set forth in the written recommendation for the remedial work.	2	30 Days	7 Days

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
1-2.03	Pavement – Asset Condition Score	All roadways to have a smooth surface course (including bridge decks, covers, gratings, frames and boxes) with adequate skid resistance and free from Defects. Measurements shall be conducted using procedures, techniques, and measuring equipment consistent with the Authority’s Pavement Management Rating System. Measurements and inspections necessary to derive Asset Condition Score for pavement.	Maintenance Element Category Score for Pavement for 80% of Auditable Sections cannot fall below: a) Mainlanes and ramps – CRS = 7.5 b) Frontage roads – CRS = 6.8	6	30 Days	7 Days
			Maintenance Element Category Score for each Auditable Section cannot fall below: a) Mainlanes and ramps – CRS = 6.8 b) Frontage roads – CRS = 6.6	6	30 Days	7 Days
1-2.04	Pavement - ruts	All pavement sections to be measured using an automated device in compliance with TxDOT standards. 10-ft straight edge used to measure rut depth for localized areas.	Ruts – Mainlanes, shoulders, frontage roads & ramps: a) Mainlanes, shoulders and ramps – No more than 3% of wheel path length in each Auditable Section has ruts greater than ¼" in depth b) Frontage roads – No more than 10% of wheel path length in each Auditable Section has ruts greater than ¼" in depth c) No location has a rut greater than 0.5" in depth using the 10ft straight edge used to measure rut depth for localized areas.	6	30 Days	7 Days

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
1-2.05	Pavement - ride quality	<p>All pavement sections to be measured using the International Roughness Index (IRI) according to TxDOT standard Tex-1001-S, Operating Inertial Profilers and Evaluating Pavement Profiles.</p> <p>To allow for measurement bias, an adjustment of -10 (minus ten) is made to IRI measurements for concrete pavements before assessing threshold compliance.</p> <p>Renewal Work and new construction subject to construction quality standards.</p>	<p>Ride Quality - For 80% of all Auditable Sections measured, IRI throughout 98% of each Auditable Section is less than or equal to:</p> <p>a) Mainlanes, ramps – 95" per mile b) Frontage roads – 120" per mile</p>	6	30 Days	7 Days
			<p>Ride Quality - For each Auditable Section measured, IRI measured throughout 98% of Auditable Section of less than or equal to:</p> <p>a) Mainlanes, ramps – 120" per mile b) Frontage roads – 150" per mile c) Mainlanes, ramps, 0.1 mile average – 150" per mile d) Frontage roads, 0.1 mile average – 180" per mile e) No individual discontinuities greater than 0.75"</p>	6	30 Days	7 Days
			<p>Ride Quality - For each Auditable Section measured, IRI measured throughout 98% of each lane containing a</p> <p>a) bridge deck in any Auditable Section, 0.1 mile average – 200" per mile</p>	6	30 Days	7 Days
1-2.06	Pavement – failures	Maintain the pavement sections and correct any instances of failures.	<p>Pavement is maintained to ensure it is functioning as intended and in the case of a pavement failure, perform repairs/mitigation are performed that exceed the failure criteria set forth in the Authority's Pavement Management Rating System, including potholes, base failures, punch-outs and jointed concrete pavement failures.</p>	8	Permanent Remedy: 28 Days	Permanent Remedy: 10 Days
				8	Permanent Repair: 6 Months	Permanent Repair: 15 Days

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
1-2.07	Pavement – edge drop-offs	Maintain the pavement section for edge drop-offs	Physical measurement of edge drop-off level compared to adjacent surface does not exceed an edge drop-off of 2".	8	10 Days	24 Hours
1-2.08	Pavement – skid resistance	All pavement sections to be measured using ASTM E274/E274M-11 Standard Test Method for skid resistance testing of paved surfaces at 50 MPH using a full scale smooth tire meeting the requirements of ASTM E524-08.	Mainlanes, shoulders and ramps – For all 0.5 mile sections with an average Skid Number below 30, investigate the potential risk of skidding accidents and take appropriate remedial action to obtain a Skid Number of __ or better.	8	7 Days	24 Hours
			Frontage roads – For all 0.5 mile sections with an average Skid Number below 30, investigate the potential risk of skidding accidents and take appropriate remedial action to obtain a Skid Number of __ or better.	6	7 Days	24 Hours
			When the Skid Number is below 25 and/or when required by the Wet Weather Accident Reduction Program, perform a site investigation and perform required corrective action to obtain a Skid Number of __ or better.	8	7 Days	24 Hours
			Instances where road Users warned of potential skidding hazard where remedial action is identified.	8	7 Days	24 Hours
1-2.09	Crossovers and other paved areas	Maintain all crossovers and other paved areas free of Defects	a) No Potholes of low severity or higher b) Base failures of low severity or higher	6	28 Days	10 Days
1-2.10	Joints in concrete	Maintain all joints in concrete paving so they are sealed and watertight.	All joints greater than ¼" are sealed.	6	30 Days	7 Days
		Longitudinal joint separation.	Measurement of joint width is no more than 1" and faulting no more than ¼".	6	30 Days	7 Days
1-2.11	Curbs	Maintain all curbs free of Defects.	Curbs do not have any length out of alignment greater than 1".	6	30 Days	7 Days

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
MAINTENANCE ELEMENT CATEGORY – DRAINAGE						
1-2.12	Pipes and channels	Maintain each Maintenance Element of the drainage system.	Each Maintenance Element of the drainage system is maintained in its proper function by cleaning, clearing and/or emptying as appropriate from the point at which water drains from the travel way to the outfall or drainage way. Pipes and channels do not have more than 10% of cross section area obstructed.	4	30 Days	7 Days
1-2.13	Drainage treatment devices	Maintain all drainage treatment and balancing systems, flow and spillage control devices.	Drainage treatment and balancing systems, flow and spillage control devices function correctly and their location and means of operation are recorded adequately to permit their correct operation in Emergency. They are functioning correctly with means of operation displayed.	4	10 Days	5 Days
1-2.14	Discharge systems	Maintain surface water discharge systems.	Surface water discharge systems perform their proper function and discharge to groundwater and waterways complies with the relevant Laws and Governmental Approvals.	4	30 Days	7 Days
MAINTENANCE ELEMENT CATEGORY – STRUCTURES						
1-2.15	Structures - having an opening	Maintain all structures and perform inspection and assessment in accordance with the requirements of	Maintain and update all records as required in the TxDOT Bridge Inspection Manual	4	10 Days	5 Days

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
	measured along the center of the roadway of more than 20 feet	Federal National Bridge Inspection Standards (NBIS) of the Code of Federal Regulations, 23 Highways – Part 650, the TxDOT Bridge Inspection Manual, and the Federal Highway Administration’s Bridge Inspector’s Reference Manual. This inspection to be performed biennially by TxDOT and reports of the inspections to be provided to the Maintenance Contractor.	No occurrences of condition rating below seven for any deck, superstructure or substructure	8	30 Days	10 Days
1-2.16	Other structural components; all non-structural items		All expansion joints and deck drainage systems are free of dirt debris and vegetation, defects, loose nuts and bolts, defects in gaskets	4	30 Days	10 Days
			Parapets are free of loose nuts or bolts, blockages of hollow section drain holes, accident damage, graffiti and vegetation.	4	30 Days	10 Days
			Bearings and bearing shelves are clean.	4	30 Days	10 Days
			Sliding and roller surfaces are clean and greased to ensure satisfactory performance. Additional advice contained in bearing manufacturers' instructions in the Structure Maintenance Manual is followed. Special finishes are clean and perform to the appropriate standards.	4	60 Days	10 Days
			All non-structural items, such as hoists and electrical fixings, operate correctly, are clean and lubricated as appropriate and in accordance with the manufacturer's recommendation,s and all certifications of lifting devices are maintained.	4	60 Days	10 Days

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
1-2.17	Substructures and super-structures	Maintain all structures and perform inspection and assessment in accordance with the requirements of federal National Bridge Inspection Standards (NBIS) of the Code of Federal Regulations, 23 Highways – Part 650, the TxDOT Bridge Inspection Manual, and the Federal Highway Administration’s Bridge Inspector’s Reference Manual.	Substructures and superstructures are free of: graffiti, vegetation (except any intended landscape vegetation treatments), debris and bird droppings, blocked drains, weep pipes, manholes and chambers, blocked drainage holes in structural components, defects in joint sealants, defects in pedestrian protection measures, scour damage, corrosion of rebar, paint system failures, and impact damage	4	30 Days	10 Days
1-2.18	Non-bridge class culverts	Maintain all non-bridge-class culverts.	No vegetation or debris, and no more than 20% silt	4	30 Days	10 Days
			No defects in sealant to movement joints	6	15 Days	10 Days
			No scour damage	8	30 Days	10 Days
1-2.19	Gantries	Maintain sign / signal gantries	a) No loose nuts and bolts b) No defects in surface protection systems including painted or galvanized surfaces	6	30 Days	10 Days

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
1-2.20	Load ratings	Perform load rating calculations in accordance with the Manual for Bridge Evaluation and the TxDOT Bridge Inspection Manual. Load restriction requirements as per the TxDOT Bridge Inspection Manual.	All structures maintain the design load capacity.	6	30 Days	10 Days
1-2.21	Access points	Maintain all structures access points	All hatches and points of access have fully operational and lockable entryways and none is left open or unlocked.	4	30 Days	10 Days
1-2.22	Mechanically stabilized earth and retaining walls	Perform inspection and assessment using Good Industry Practices of all mechanically stabilized earth and retaining walls	Mechanically stabilized earth and retaining walls are 95% free of blocked weep holes, vegetation (except any intended landscape vegetation treatments), defects in joint sealants, defects in pedestrian protection, scour damage, corrosion of reinforcing bars, paint system failure, concrete spalls and impact damage	4	30 Days	10 Days
			Parapets are free of loose nuts and bolts, blockage of drain holes, vegetation (except any intended landscape vegetation treatments), impact damage and concrete spalls	4	30 Days	10 Days
MAINTENANCE ELEMENT CATEGORY – PAVEMENT MARKINGS, OBJECT MARKERS, BARRIER MARKERS AND DELINEATORS						

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
1-2.23	Pavement markings	Maintain pavement markings and perform annual Mobile Retroreflectivity Data Collection (MRDC) in accordance with TxDOT's Special Specification 8094 Mobile Retroreflectivity Data Collection for Pavement Markings.	<p>Pavement markings are clean and visible during the day and at night, whole and complete, and of the correct color, type, width and length, and are placed to meet the TMUTCD and TxDOT's pavement marking standard sheets. Pavement markings:</p> <ul style="list-style-type: none"> a) Meet the minimum retroreflectivity 175 mcd/sqm/lx for white b) Meet the minimum retroreflectivity 125 mcd/sqm/lx for yellow c) Do not have more than 5% loss of area of material at any point d) Do not spread more than 10% of specified dimensions. e) Perform their intended function and comply with relevant regulations 	4	60 Days	30 Days
1-2.24	Raised pavement markers	Maintain raised reflective pavement markers.	<p>Pavement markers are clean and clearly visible, of the correct color and type, reflective or retroreflective as TxDOT standard, correctly located, aligned and at the correct level, firmly fixed and in a condition that will ensure that they remain at the correct level. Additionally:</p> <ul style="list-style-type: none"> a) No more than 10 consecutive markers are ineffective (Ineffective includes missing, damaged, settled or sunk); b) A minimum of four markers are visible at 80' spacing when viewed under low beam headlights; and c) They are uniform (replacement rpms having equivalent physical and performance characteristics to adjacent markers) 	4	30 days	15 Days
1-2.25	Delineators and markers	Maintain object markers, mail box markers and delineators.	95% of the delineators and markers are free from Defects, are clean and visible, are of the correct color and type, and are legible, reflective, straight and vertical. No more than 5% of delineators and markers are missing.	2	30 days	15 Days

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
MAINTENANCE ELEMENT CATEGORY – GUARDRAILS, SAFETY BARRIERS AND IMPACT ATTENUATORS						
1-2.26	Guardrail/ safety barriers, concrete barriers (temporary or permanent)	Maintain the Project's guardrail, safety barriers, and concrete barriers sections and repair any damaged guardrail/safety barriers and concrete barrier .	All guardrails, safety barriers, concrete barriers (temporary or permanent) are free of Defects. They are appropriately placed and correctly installed at the correct height and distance from roadway or obstacles. Installation and repairs are carried out in accordance with the requirements of NCHRP 350 standards.	4	Permanent Remedy: 28 Days	Permanent Remedy: 5 Days
				4	Permanent Repair: 6 Months	Permanent Repair: 15 Days
1-2.27	Attenuators	Maintain the Project's attenuators.	All impact attenuators are appropriately placed and correctly installed.	4	Permanent Remedy: 7 Days	Permanent Remedy: 48 Hours
				4	Permanent Repair: 6 Months	Permanent Repair: 15 Days
MAINTENANCE ELEMENT CATEGORY – TRAFFIC SIGNS						

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
		Perform a bi-annual inspection of all signs on the Project and submit inspection reports to TxDOT.	Complete a daytime and nighttime inspection of all the signs on the Project on a bi-annual basis.	2	30 Days	7 Days
			Complete repairs identified in the inspection report.	4	30 Days	5 Days
MAINTENANCE ELEMENT CATEGORY – TRAFFIC SIGNALS						
1-2.29	Traffic signal	Maintain all traffic signals at acceptable level of safety for the traveling public.	Traffic signals and their associated equipment are clean and visible, correctly aligned and operational, free from damage caused by accident or vandalism, correctly aligned and operational, and signal timing and operation are correct.	4	5 Days	24 Hours
			Contingency plans are in place to rectify Defect Hazard Noncompliance Events not immediately repairable to assure alternative traffic control is provided during a period of failure.	4	2 Days	24 Hours
			Traffic signals are structurally and electrically sound.	4	30 Days	10 Days
MAINTENANCE ELEMENT CATEGORY – HIGHWAY LIGHTING						
1-2.30	Highway lighting	Maintain the highway lighting system.	Replace any light poles damaged or knocked down by traffic accidents or Incidents.	2	14 Days	24 Hours

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
		Perform a monthly inspection to monitor and maintain highway lighting.	<ul style="list-style-type: none"> a) Roadway lights - A minimum of ninety percent (90%) of the lights in the highway lighting system are operational and no more than two consecutive lights are out. b) Sign lighting – no such sign has more than one bulb not working. c) Complete repairs identified in the monthly inspection d) All lighting is free from Defects and provides acceptable uniform lighting quality. e) Lanterns are clean and correctly positioned. f) Lighting units are free from accidental damage or vandalism. g) Columns are upright, correctly founded, visually acceptable and structurally sound. 	2	10 Days	24 Hours
		Maintain the electricity supply, feeder pillars, cabinets, switches and fittings.	Electricity supply, feeder pillars, cabinets, switches and fittings are electrically, mechanically and structurally sound and functioning.	2	10 Days	24 Hours
MAINTENANCE ELEMENT CATEGORY – FENCE, WALLS, AND SOUND ABATEMENT						
1-2.31	Fence, walls and sound abatement	Maintain fence, walls and sound abatement at an acceptable level of safety for the traveling public.	All fence, walls and sound abatement act as designed and serve the purpose for which they were intended.	6	30 Days	15 Days

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
1-2.32	Access gates	Maintain all access gates locked during periods of no work activity.	All construction access gates are locked close at the end of each construction work day. No gates remain open or unlocked.	4	24 Hours	24 Hours
MAINTENANCE ELEMENT CATEGORY – ROADSIDE MAINTENANCE						
1-2.33	Mowing	Maintain roadside mowing at an acceptable level of maintenance.	<ul style="list-style-type: none"> a) 95% of all grassing (and weeds) in the urban areas has a height of between 5 in. and 18 in. Mowing begins before vegetation reaches the maximum height. b) Spot mowing at intersections, ramps or other areas maintains visibility of appurtenances and sight distance. c) Grass or vegetation does not encroach into or on paved shoulders, travel lanes, sidewalks, islands, riprap, traffic barrier or curbs. d) A full width mowing cycle is completed after the first frost. e) Wildflowers are preserved utilizing the guidelines in the mowing specifications and TXDOT Roadside Vegetation Manual. 	2	24 Hours	24 Hours
1-2.34	Herbicide program	Maintain the Project at an acceptable level of service	A herbicide program is undertaken in accordance with the TxDOT Herbicide Manual to control noxious weeds and to eliminate grass in pavement or concrete	2	14 Days	7 Days
1-2.35	Environmental Compliance	Monitor wetland and other Environmental Approvals obtained during construction.	Comply with all requirements of Environmental Approvals obtained during construction, including monitoring and reporting requirements .	4	7 Days	3 Days

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
		Monitor the Erosion Control and Storm Water Pollution Prevention Plan	Provide and maintain all erosion control features in accordance with the Design Documents and TxDOT standards.	4	7 Days	3 Days
1-2.36	Protected species	Monitor the Project to ensure that named species and habitats are protected.	Compliance with the required task	4	30 Days	30 Days
MAINTENANCE ELEMENT CATEGORY – SWEEPING AND CLEANING						
1-2.37	Litter removal	Keep the Project ROW in a neat condition, remove litter regularly. Pick up large litter items before mowing operations. Dispose of all litter and debris collected at an approved solid waste site	No more than 20 pieces of litter per roadside mile are visible when traveling at highway speed	2	5 Days	3 Days
1-2.38	Road & bridge sweeping	Conduct routine sweeping and maintenance operation on roadways and bridges.	<ul style="list-style-type: none"> a) Prevent dirt, ice, rock, debris, etc. on roadways and bridges from accumulating greater than 24" wide or 1/2" deep. b) Keep all channels, hard shoulders, gore areas, ramps, intersections, islands and frontage roads swept clean. c) Clear and remove debris from traffic lanes, hard shoulders, verges and central reservations, footways and cycle ways. Remove all sweepings without stockpiling in the right of way and dispose of at approved tip, provided temporary storage up to ___ hours is permitted prior to final disposal.	4	5 Days	3 Days
MAINTENANCE ELEMENT CATEGORY – PEDESTRIAN FEATURES						
1-2.39	Concrete sidewalk and pedestrian curb ramps	Maintain sidewalk, pedestrian curb ramps at acceptable level of safety for the traveling public.	All pedestrian elements act as designed, serve the purpose for which they were intended, and meet the performance requirements set forth in the TxDOT Design Standards and Americans with Disabilities Act (ADA) requirements.	2	30 Days	24 Hours
MAINTENANCE ELEMENT CATEGORY – AMENITY						

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
1-2.40	Graffiti	Maintain assets free of graffiti.	Graffiti is removed in a manner and using materials that restore the surface to like appearance of adjoining surfaces.	2	24 Hours	24 Hours
1-2.41	Animals	Monitor the Project for animals.	All dead or injured animals are removed from the pavement	6	2 Hours	1 Hour
			All dead or injured animals are removed from the Project ROW.	6	24 Hours	24 Hours
1-2.42	Abandoned vehicles and/or equipment	Notify law enforcement for the removal of vehicles and/or equipment from within the Project	Notify law enforcement of any abandoned vehicles and/or equipment for the removal from the Project ROW.	4	24 Hours	24 Hours
SNOW AND ICE						
1-2.43	Snow and ice	Use reasonable efforts to maintain travel way free from snow and ice. .	Response time to complete manning and loading of spreading vehicles. a) For forecasted snow and ice events, spreading vehicles are manned and loaded prior to a designated activation time. b) For unexpected snow and ice events, spreading vehicles are promptly manned and loaded	6	1 Hour	30 Min
				6	2 Hours	30 Min
			Response time for snow and ice clearance vehicles to depart from base. a) For forecasted snow and ice events, manned and loaded vehicles are dispatched on or before occurrence of the event. b) For unexpected snow and ice events, manned and loaded vehicles are dispatched within ___ minutes after inception of the event.	6	1 Hour	30 Min

Item No.	Item	Required Task	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
1-2.44	Weather forecasting	Weather forecast information is obtained and assessed and appropriate precautionary treatment is carried out to minimize ice forming on the travel way.	Comply with Maintenance Management Plan (MMP) to prevent ice forming on the travel way.	6	1 Hour	30 Min
1-2.45	Operational plans	Implement snow and ice clearance operating plans to maintain traffic flows during and after snowfall and restore the travel way to a clear condition as soon as possible.	Comply with MMP for snow and ice clearance plans to maintain traffic flows during and after snowfall and restore the travel way to a clear condition as soon as possible.	2	1 Hour	1 Hour
INCIDENT RESPONSE						
1-2.46	Incident response	Monitor the Project and respond to Incidents in accordance with the MMP.	a) Response times met for 98% of Incidents measured on a 1 year rolling basis. b) No unresolved complaints from Emergency Services.	10	0	0
1-2.47	Incidents involving Hazardous Materials.	Monitor the Project and respond to Incidents involving Hazardous Materials.	Comply with the requirements of the MMP.	8	1 Hour	1 Hour

Note:

- Maintenance Contractor shall assume and execute TxDOT's responsibilities and duties as defined in the current and future agreements with local Governmental Entities along the Project corridor which define the requirements for construction, maintenance, and operation of traffic signals, illumination, bus facilities, tolling, and roadway maintenance.

Table 1-3: Planning and Reporting Based Noncompliance Events

Item No.	Item	Breach of or Failure to Meet the Following Minimum Performance Requirements:	Number of Noncompliance Points	Cure Period	Interval of Recurrence
1-3.01	Reporting	Submit all reports relating to the Maintenance Services, including the annual reports, in the required format, with the content and within the time period required under the COMA Documents.	2	10 Days	5 Days
1-3.02	Reporting	Report to TxDOT on a daily basis any Lane Closures or reduced widths which give rise to Liquidated Damages for Lane Closures.	4	2 Days	1 Day
1-3.03	Reporting	Keep record of and report to TxDOT a Noncompliance Event as and when required under Section 19.2.1.1 and 19.2.1.3 of the Agreement.	10	10 Days	5 Days
1-3.04	Reporting	Provide information updates to the Maintenance Management Plan in accordance with Section 0120 of Exhibit 2 of the COMA.	2	10 Days	5 Days
1-3.05	Plan	Prepare and submit an Incident Management Plan and updates in accordance with Section 0140 of Exhibit 2 of the COMA.	?	?	?
1-3.06	Reporting	Implement the MMS and update the information on the MMS in accordance with Section 0160 of Exhibit 2 to the COMA	?	?	?
1-3.07	Plan - Safety	Prepare and submit a Maintenance Safety Plan and updates in accordance with Section 0180 of Exhibit 2 of the COMA.	4	3 Days	2 Days
1-3.08	Plan - Quality control	Prepare and submit a Maintenance Services Quality Control Plan and updates in accordance with Section 0170 of Exhibit 2 of the COMA.	2	10 Days	5 Days

1-3.09	Plan	Prepare and submit a Maintenance Document Management Plan and updates in accordance with Section 0210 of Exhibit 2 of the COMA.	?	?	?
1-3.10	Plan	Prepare and submit a Maintenance Services Deliverables Schedule and updates in accordance with Section 0220 of Exhibit 2 of the COMA.	?	?	?
1-3.11	Plan - Traffic management	Prepare and submit to TxDOT for its approval a Traffic Management Plan and updates in accordance with Section 1120 of Exhibit 2 of the COMA.	10	5 Days	5 Days
1-3.12	Plan - Traffic control plans	Prepare and submit a Traffic Control Plan to TxDOT 10 days before a planned maintenance activity involving a Lane Closure or revision to current traffic control.	6	1 Day	1 Day
1-3.13	Traffic control plans	Implement traffic control measures in a manner consistent with the Traffic Control Plan submitted for a planned maintenance activity.	12	30 Minutes	30 Minutes
1-3.14					
1-3.15	Plan - Renewal and replacement	Prepare and submit to TxDOT for review and comment a Capital Asset Replacement Work Submittal and updates in accordance with Section 3.3.2 of the COMA and Section 0150 of Exhibit 2 of the COMA.	2	14 Days	7 Days