

Texas Department of Transportation
TECHNICAL PROVISIONS
FOR
TXDOT SH 288 TOLL LANES PROJECT IN HARRIS COUNTY

ATTACHMENT 19-1
PERFORMANCE AND MEASUREMENT TABLE BASELINE

April 7, 2014

Performance and Measurement Table Baseline												
ELEMENT CATEGORY	REF	ELEMENT	PERFORMANCE REQUIREMENT	RESPONSE TO DEFECTS			INSPECTION AND MEASUREMENT METHOD (AFTER SERVICE COMMENCEMENT)*	MEASUREMENT RECORD (AFTER SERVICE COMMENCEMENT)*	TARGET	INSPECTION AND MEASUREMENT METHOD (FROM OPERATING COMMENCEMENT DATE TO SERVICE COMMENCEMENT)	MEASUREMENT RECORD (FROM OPERATING COMMENCEMENT DATE TO SERVICE COMMENCEMENT)	TARGET
				Cat 1	Cat 1	Cat 2						
				Hazard Mitigation	Permanent Remedy	Permanent Repair						
1) ROADWAY												
							<i>Unless stated otherwise, measurements shall be conducted using procedures, techniques, and measuring equipment consistent with TxDOT's Pavement Management Information System Rater's Manual. Unless otherwise stated, pavement performance measurement records relate to 0.5-mile sections as described in the Pavement Management Information System Rater's Manual.</i>			<i>Unless stated otherwise, measurements shall be conducted using procedures, techniques, and measuring equipment consistent with TxDOT's Pavement Management Information System Rater's Manual. Unless otherwise stated, pavement performance measurement records relate to 0.5-mile sections as described in the Pavement Management Information System Rater's Manual.</i>		
	1.1	Obstructions and debris	Roadway and clear zone free from obstructions and debris	2 hrs	N/A	N/A	Visual Inspection	Number of obstructions and debris	Nil	Visual Inspection	Number of obstructions and debris	Nil
	1.2	Pavement	All roadways have a smooth and quiet surface course (including bridge decks, covers, gratings, frames and boxes) with adequate skid resistance and free from Defects.	24 hrs	28 days	6 months	a) Pavement Condition Score Measurements and inspections necessary to derive Pavement Condition Score	Pavement Condition Score for 80% of Auditable Sections exceeding: <ul style="list-style-type: none"> • Mainlanes and ramps - 90 • Frontage roads - 80 Pavement Condition Score for 80% of Auditable Sections exceeding: <ul style="list-style-type: none"> • Mainlanes and ramps - 80 • Frontage roads - 70 	100% 100% 100% 100%	Pavement Condition Score will not be measured for this phase.		N/A N/A
							b) Ruts – Mainlanes, shoulders & ramps Depth as measured using an automated device in compliance with TxDOT Standards.	Percentage of wheel path length with ruts greater than 1/4" in depth in each Auditable Section <ul style="list-style-type: none"> • Mainlanes, shoulders and ramps - 3% • Frontage roads - 10% 	Nil Nil	Visual inspection at travel speed		N/A N/A
							10ft straight edge used to measure rut depth for localized areas.	Depth of rut at any location greater than 0.5"	Nil	10ft straight edge used to measure rut depth for localized areas.	Depth of rut at any location greater than 0.5"	Nil
							c) Ride quality Measurement of International Roughness Index (IRI) according to TxDOT standard Tex-1001-S, Operating Inertial Profilers and Evaluating Pavement Profiles	For 80% of all Auditable Sections Measured, IRI throughout 98% of each Auditable Section is less than or equal to: <ul style="list-style-type: none"> • Mainlanes, ramps - 95" per mile** • Frontage roads - 120" per mile** 	100% 100%	Ride quality will not be measured during this phase.		N/A N/A

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	1.2 Cont.						** To allow for measurement bias, an adjustment of -10 (minus ten) is made to IRI measurements for concrete pavements before assessing threshold compliance.	IRI measured throughout 98% of Auditable Section of less than or equal to: • Mainlanes, ramps - 120" per mile** • Frontage roads - 150" per mile**	100% 100%		• Frontage roads - 150" per mile**	N/A N/A
							(Renewal Work and new construction subject to construction quality standards)	Mainlanes, ramps, 0.1 mile average - 150" per mile**	100%	(Renewal Work and new construction subject to construction quality standards)	Mainlanes, ramps, 0.1 mile average - 150" per mile**	N/A
								Frontage roads, 0.1 mile average - 180" per mile**	100%		Frontage roads, 0.1 mile average - 180" per mile**	N/A
								IRI measured throughout 98% of each lane containing a bridge deck in any Auditable Section, 0.1 mile average - 200" per mile**	100%		IRI measured throughout 98% of each lane containing a bridge deck in any Auditable Section, 0.1 mile average - 200" per mile**	N/A
							10-ft straightedge used to measure discontinuities	Individual discontinuities greater than 1/4"	Nil	10-ft straightedge used to measure discontinuities	Individual discontinuities greater than 1/4"	Nil
							d) Failures Instances of failures exceeding the failure criteria set forth in the TxDOT PMIS Rater's Manual, including potholes, base failures, punchouts and jointed concrete pavement failures	Occurance of any failure	Nil	d) Failures Instances of failures exceeding the failure criteria set forth in the TxDOT PMIS Rater's Manual, including potholes, base failures, punchouts and jointed concrete pavement failures	Occurrence of any failure	Nil
							e) Edge drop-offs Physical measurement of edge drop-off level compared to adjacent surface	Instances of edge drop-off greater than 2"	Nil	e) Edge drop-offs Visual inspection of edge drop-off level compared to adjacent surface	Instances of edge drop-off greater than 2"	Nil
							f) Skid resistance 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 E 524	• Mainlanes, shoulders, and ramps - Number of sections investigated as to potential risk of skidding accident and appropriate remedial action taken where average Skid Number for 0.5-mile section of mainlanes, shoulders and ramps is below 25.	Nil	f) Skid resistance 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 E 524 .	• Mainlanes, shoulders and ramps – Number of sections investigated as to potential risk of skidding accident and appropriate remedial action taken where average Skid Number for 0.5-mile section of mainlanes, shoulders and ramps is below 25.	Nil
								• Frontage roads - Number of sections investigated as to potential risk of skidding accident and appropriate remedial action taken where average Skid Number for 0.5-mile section of frontage roads is below 25..	Nil		• Frontage roads –Number of sections investigated as to potential risk of skidding accident and appropriate remedial action taken where average Skid Number for 0.5-mile section of frontage roads is below 25.	Nil

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	1.2 Cont.											
			Road users warned of potential skidding hazards	24hrs	7days	N/A	Skid resistance (as above)	Instances where road users warned of potential skidding hazard where remedial action is identified.	100%	Skid resistance (as above)	Instances where road users warned of potential skidding hazard where remedial action is identified.	100%
	1.3	Crossovers and other paved areas	Crossovers and other paved areas are free of Defects	24 hrs	28 days	6 months	a) Potholes	Potholes of low severity or higher	Nil	a) Potholes	Potholes of low severity or higher	Nil
							b) Base failures	Base failures of low severity or higher	Nil	b) Base failures	Base failures of low severity or higher	Nil
	1.4	Joints in concrete	Joints in concrete paving are sealed and watertight	24 hrs	28 days	6 months	Visual inspection of joints	Length unsealed joints greater than ¼"	Nil	Visual inspection of joints	Length unsealed joints greater than ¼"	Nil
			Longitudinal joint separation				Measurement of joint width and level difference of two sides of joints	Joint width more than 1" or faulting more than ¼"	Nil	Measurement of joint width and level difference of two sides of joints	Joint width more than 1" or faulting more than ¼"	Nil
	1.5	Curbs	Curbs are free of defects	24 hrs	28 days	6 months	Visual inspection	Length out of alignment	Nil	Visual inspection	Length out of alignment	Nil
* - Items in these columns shall be reviewed annually by Developer as part of the MMP to comply with Technical Documents and/or Good Industry Practice.												
2) DRAINAGE												
	2.1	Culverts, Pipes and Channels	Each 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.	24 hrs	28 days	6 months	Visual inspection supplemented by CCTV where required to inspect buried pipe work	Length with less than 90% of cross-sectional area clear (feet)	Nil	Visual inspection following heavy rain	-Identify areas of water back up	Nil
	2.2	Drainage treatment devices	Drainage treatment and balancing systems, flow and spillage control devices function correctly and their location and means of operation is recorded adequately to permit their correct operation in Emergency.	24 hrs	28 days	6 months	Visual inspection	Devices functioning correctly with means of operation displayed	100%	Visual inspection	Devices functioning correctly with means of operation displayed	100%
	2.3	Travel Way	The travel way is free from water to the extent that such water would represent a hazard by virtue of its position and depth.	24 hrs	28 days	6 months	Visual inspection of water on surface	Instances of hazardous water build-up	Nil	Visual inspection of water on surface	Instances of hazardous water build-up	Nil

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	2.4	Discharge systems	Surface water discharge systems perform their proper function and discharge to groundwater and waterways complies with the relevant legislation and permits.	24 hrs	28 days	6 months	Visual inspection and records	Non-compliances with legislation	Nil	Visual inspection and records	Non-compliances with legislation	Nil
	2.5	Protected Species	Named species and habitats are protected.	24 hrs	28 days	6 months	Visual inspection	Compliance with the requirement	100%	Visual inspection	Compliance with the requirement	100%
3) STRUCTURES												
	3.1	Structures having an opening measured along the center of the roadway of more than 20 feet between undercopings of abutments or springlines of arches or extreme ends of openings or multiple boxes	Substructures and superstructures are free of: <ul style="list-style-type: none"> • graffiti • undesirable vegetation • 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 measure • scour damage • corrosion of rebar • paint system failures • impact damage 	24 hrs	28 days	6 months	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 Administration’s Bridge Inspector’s Reference Manual.	Records as required in the TxDOT Bridge Inspection Manual Occurrence of condition rating below six (6) for any deck, super structure or substructure All condition states to be one (1) for all structure components	Nil 100%	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 Administration’s Bridge Inspector’s Reference Manual.	Records as required in the TxDOT Bridge Inspection Manual Occurrence of condition rating below six (6) for any deck, super structure or substructure All condition states to be one (1) for all structure components	Nil 100%
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	3.2	Structure components	i) Expansion joints are free of: <ul style="list-style-type: none"> • dirt debris and vegetation • defects in drainage systems • loose nuts and bolts • defects in gaskets ii) The deck drainage system is free of all and operates as intended.	24 hrs	28 days	6 months	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 Administration’s Bridge Inspector’s Reference Manual.	Records as required in the TxDOT Bridge Inspection Manual Occurrences of condition rating below six(6) for any deck, superstructure or substructure All condition states to be one (1) for all structure components	Nil 100%	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 Administration’s Bridge Inspector’s Reference Manual.	Records as required in the TxDOT Bridge Inspection Manual Occurrences of condition rating below six (6) for any deck, superstructure or substructure All condition states to be one (1) for all structure components	Nil 100%

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			iii) Parapets are free of: <ul style="list-style-type: none"> • loose nuts or bolts • blockages of hollow section drain holes • graffiti • vegetation • accident damage 									
	3.2 Cont		iv) Bearings and bearing shelves are clean. v) 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. vii) All non-structural items such as hoists and electrical fixings, operate correctly, are clean and lubricated as appropriate, in accordance with the manufacturer's recommendations and certification of lifting devices is maintained.									
	3.3	Non-bridge class culverts	Non-bridge-class culverts are free of: <ul style="list-style-type: none"> • vegetation and debris and silt • defects in sealant to movement joints • scour damage 	24 hrs	28 days	6 months	Visual inspection	Number with vegetation, debris and silt Number with defects in sealant and movement joints Number with scour damage	Nil Nil Nil	Visual inspection	Number with vegetation, debris and silt Number with defects in sealant and movement joints Number with scour damage	Nil Nil Nil
	3.4	Gantries and high masts	Sign signal gantries, high masts are structurally sound and free of: <ul style="list-style-type: none"> • loose nuts and bolts • defects in surface protection systems • graffiti 	24 hrs	28 days	6 months	Visual inspection	Number with loose assemblies Number with defects in surface protection Number with graffiti	Nil Nil Nil	Visual inspection	Number with loose assemblies Number with defects in surface protection Number with graffiti	Nil Nil Nil
	3.5	Load ratings	All structures maintain the design load capacity.	24 hrs	28 days	6 months	Load rating calculations in accordance with the Manual for Bridge Evaluation and the TxDOT Bridge Inspection Manual.	Number of load restrictions for Texas legal loads (including legally permitted vehicles)	Nil		Number of load restrictions for Texas legal loads (including legally permitted vehicles)	Nil

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							Load restriction requirements as per the TxDOT Bridge Inspection Manual					
4) PAVEMENT MARKINGS, OBJECT MARKERS, BARRIER MARKERS AND DELINEATORS												
* - Items in these columns shall be reviewed annually by Developer as part of the MMP to comply with Technical Documents and/or Good Industry Practice.												
	4.1	Pavement markings	Pavement markings are: • clean and visible during the day and at night • whole and complete and of the correct color, type, width and length • placed to meet the TMUTCD and TxDOT's Pavement Marking Standard Sheets	24 hrs	28 days	6 months	a) Markings - General General Portable retroreflectometer, which uses 30 meter geometry meeting the requirements described in ASTM E 1710 Physical measurement b) Profile Markings Visual inspection	 Length meeting the minimum retroreflectivity 175 med/sqm/lx for white Length meeting the minimum retroreflectivity 125 med/sqm/lx for white Length with more than 5% loss of area of material at any point Length with spread more than 10% of specified dimensions. Length performing its intended function and compliant with relevant regulations	 100% 100% Nil Nil 100%	a) Markings - General Visual inspection at 300 ft with low beams as per earlier TxDOT practice. Visual inspection b) Profile Markings Visual inspection	 Length found defective. Length with more than 5% loss of area of material at any point Length with spread more than 10% of specified dimensions. Length performing its intended function and compliant with relevant regulations	 100% 100% Nil Nil 100%
	4.2	Raised reflective markers	Raised reflective pavement markers, object markers and delineators 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 • are firmly fixed • are in a condition that will ensure that they remain at the correct level.	24 hrs	28 days	6 months	Visual inspection	Number of markers associated with road markings that are ineffective in any 10 consecutive markers. (Ineffective includes missing, damaged, settled or sunk) [A minimum of four markers should be visible at 80' spacing when viewed under low beam headlights] Uniformity (replacement rpms having equivalent physical and performance characteristics to adjacent markers).	Nil 100%	Visual inspection	Number of markers associated with road markings that are ineffective in any 10 consecutive markers. (Ineffective includes missing, damaged, settled or sunk) [A minimum of four markers should be visible at 80' spacing when viewed under low beam headlights] Uniformity (replacement rpms having equivalent physical and performance characteristics to adjacent markers).	Nil 100%
	4.3	Delineators & Markers	Object markers, mail box markers and delineators are: • clean and visible • of the correct color and type • legible and reflective • Straight and Vertical	24 hrs	28 days	6 months	Visual inspection	Number of object markers or delineators defective or missing	Nil	Visual inspection	Number of object markers or delineators defective or missing	Nil
5) GUARDRAILS, SAFETY BARRIERS AND IMPACT ATTENUATORS												
	5.1	Guard rails and safety barriers	All guardrails, safety barriers, concrete barriers, etc.) are maintained free of Defects.	24 hrs	28 days	6 months	Visual inspection	Length of road restraint systems correctly installed	100%	Visual inspection	Length of road restraint systems correctly installed	100%

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	5.1 Cont.		They are appropriately placed and correctly installed at the correct height and distance from roadway or obstacles. Installation and repairs shall be carried out in accordance with the requirements of NCHRP 350 standards.				Length free from defects Length at correct height Length at correct distance from roadway and obstacle	100% 100% 100%		Length free from defects Length at correct height Length at correct distance from roadway and obstacle	100% 100% 100%	
	5.2	Impact attenuators	All impact attenuators are appropriately placed and correctly installed	24 hrs	7 days	6 months	Visual inspection	Number correctly placed and installed	100%	Visual inspection	Number correctly placed and installed	100%
6) TRAFFIC SIGNS												
	6.1	General - All Signs	i) Signs are clean, correctly located, clearly visible, legible, reflective, at the correct height and free from structural and electrical defects ii) Identification markers are provided, correctly located, visible, clean and legible iii) Sign mounting posts are vertical, structurally sound and rust free iv) All break-away sign mounts are clear of silt or other debris that could impede break-away features and shall have correct stub heights v) Obsolete and redundant signs are removed or replaced as appropriate vi) Visibility distances meet the stated requirements vii) Sign information is of the correct size, location, type and wording to meet its intended purpose and any statutory requirements	24 hrs	28 days	6 months	a) Retroreflectivity Coefficient of retro-reflectivity b) Face damage Visual inspection c) Placement Visual inspection d) Obsolete signs Visual inspection e) Sign Information Visual inspection	Number of signs with reflectivity below the requirements of TxDOT's TMUTCD Number of signs with face damage greater than 5% of area Signs are placed in accordance with TxDOT's Sign Crew Field Book including not twisted or leaning Number of obsolete signs Sign information is of the correct size, location, type and wording to meet its intended purpose	Nil Nil 100% Nil 100%	Visual inspection at 300 ft with low beams as per earlier TxDOT practice b) Face damage Visual inspection No action No action e) Sign Information Visual inspection	Number of signs found non-reflective. Number of signs with face damage greater than 5% of area Signs are not twisted or leaning Number of obsolete signs Sign information is of the correct size, location, type and wording to meet its intended purpose	Nil Nil 100% Nil 100%
			viii) All structures and elements of the signing system are kept clean and free from debris and have clear access provided. ix) All replacement and repair materials and equipment are in accordance with the requirements of the TMUTCD x) Dynamic message signs are in an operational condition				f) Dynamic Message Signs Visual	Dynamic message signs are	100%	f) Dynamic Message Signs Visual inspection	Dynamic message signs are fully functioning	100%

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							inspection	fully functioning				

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	6.2	General - Safety critical signs	Requirements as 6.1, Plus: "Stop," "Yield," "Do Not Enter," "One Way" and "Wrong Way" signs are clean legible and undamaged.	2hrs	1 week	6 months	Visual inspection	Number of damaged Safety critical signs	Nil	Visual inspection	Number of damaged Safety critical signs	Nil
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7) TRAFFIC SIGNALS

	7.1	General	i) 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 ii) Signal timing and operation is correct iii) Contingency plans are in place to rectify Category 1 defects not immediately repairable to assure alternative traffic control is provided during a period of failure	2hrs	24 hrs	6 months	a) General condition Visual inspection b) Damage Visual inspection c) Signal timing Timed measurements d) Contingency plans Records Review	Signals are clean and visible Signals are undamaged Installations have correct signal timings Full contingency plans are in place	100% 100% 100% 100%	a) General condition Visual inspection b) Damage Visual inspection c) Signal timing Timed measurements d) Contingency plans Records Review	Signals are clean and visible Signals are undamaged Installations have correct signal timings Full contingency plans are in place	100% 100% 100% 100%
	7.2	Soundness	Traffic Signals are structurally and electrically sound	24 hrs	28 days	6 months	a) Structural soundness Visual inspection b) Electrical soundness Testing to meet NEC regulations	Inspection records showing safe installation and maintenance	100%	a) Structural soundness Visual inspection b) Electrical soundness Testing to meet NEC regulations	Inspection records showing safe installation and maintenance	100%
	7.3	Identification marking	Signals have identification markers and the telephone number for reporting faults are correctly located, clearly visible, clean and legible	N/A	28 days	6 months	Visual inspection	Inspection records showing identification markers and other information are easily readable	100%	Visual inspection	Inspection records showing identification markers and other information are easily readable	100%
	7.4	Pedestrian Elements and Vehicle Detectors	All pedestrian elements and vehicle detectors are correctly positioned and fully functional at all times	24 hrs	28 days	6 months	Visual inspection	Inspection records showing compliance	100%	Visual inspection	Inspection records showing compliance	100%

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8) LIGHTING

	8.1	Roadway Lighting – General	i) All lighting is free from defects and provides acceptable uniform lighting quality ii) Lanterns are clean and correctly positioned	24 hrs	28 days	6 months	a) Mainlane lights operable Night time inspection or automated logs b) Mainlane lights out of action Night time inspection or automated	Number of sections with less than 90% of lights functioning correctly at all times Instances of more than two consecutive lights out of action	Nil Nil	a) Mainlane lights operable Night time inspection or automated logs b) Mainlane lights out of action Night time inspection or automated	Number of sections with less than 90% of lights functioning correctly at all times Instances of more than two consecutive lights out of action	Nil Nil
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			iii) Lighting units are free from accidental damage or vandalism				logs		logs			
	8.1 Cont.		iv) Columns are upright, correctly founded, visually acceptable and structurally sound									
	8.2	Sign Lighting	Sign lighting is fully operational	24 hrs	28 days	6 months	Night time inspection or automated logs	Instances of more than one bulb per sign not working	Nil	Night time inspection or automated logs	Instances of more than one bulb per sign not working Nil	
	8.3	Electrical Supply	Electricity supply, feeder pillars, cabinets, switches and fittings are electrically, mechanically and structurally sound and functioning	24 hrs	7 days	1 month	Testing to meet NEC regulations, visual inspection	Inspection records showing safe installation and maintenance	100%	Testing to meet NEC regulations, visual inspection	Inspection records showing safe installation and maintenance 100%	
	8.4	Access Panels	All access panels in place at all times.	24 hrs	7 days	1 month	Visual Inspection	Instances of missing access panels	Nil	Visual Inspection	Instances of missing access panels Nil	
	8.5	High Mast Lighting	i) All high mast luminaries functioning on each pole ii) All obstruction lights are present and working (if required) iii) Compartment door is secure with all bolts in place iv) All winch and safety equipment is correctly functioning and maintained without rusting or corrosion (for structural requirements refer to Element Category 3)	24 hrs	48 hrs	1 month	Yearly inspection and night time inspections or automated logs	Instances of two or more lamps not working per high mast pole Identification of other defects	Nil Nil	Yearly inspection and night time inspections or automated logs	Instances of two or more lamps not working per high mast pole Identification of other defects Nil Nil	
9) FENCES, WALLS AND SOUND ABATEMENT												
	9.1	Design and Location	Fences and walls act as designed and serve the purpose for which they were intended	24 hrs	28 days	6 months	Visual Inspection	Inspection records showing compliance	100%	Visual Inspection	Inspection records showing compliance 100%	
	9.2	Construction	Integrity and structural condition of the fence is maintained	24 hrs	28 days	6 months	Structural assessment if visual inspection warrants	Inspection records showing compliance	100%	Structural assessment if visual inspection warrants	Inspection records showing compliance 100%	
10) ROADSIDE MANAGEMENT												
* - Items in these columns shall be reviewed annually by Developer as part of the MMP to comply with Technical Documents and/or Good Industry Practice.												
	10.1	Vegetated Areas - Except landscaped areas - General	Vegetation is maintained so that: i) Height of grass and weeds is kept within the limits described for urban and rural areas. Mowing begins before vegetation reaches the maximum height.	24 hrs	7 days	28 days	a) Urban areas Physical measurement of height of grass and weeds	Individual measurement areas to have 95% of height of grass and weeds between 5 in. and 18 in	100%	a) Urban areas Visual inspection of height of grass and weeds	Individual measurement areas to have 95% of height of grass and weeds between 5 in. and 18 in 100%	

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				Hazard Mitigation	Permanent Remedy	Permanent Repair						
	10.1 Cont.		<p>ii) Spot mowing at intersections, ramps or other areas maintains visibility of appurtenances and sight distance.</p> <p>iii) Grass or vegetation does not encroach into or on paved shoulders, main lanes, sidewalks, islands, riprap, traffic barrier or curbs.</p> <p>iv) A herbicide program is undertaken in accordance with the TxDOT Herbicide Manual to control noxious weeds and to eliminate grass in pavement or concrete.</p> <p>v) A full width mowing cycle is completed after the first frost.</p>				<p>b) Rural areas Physical measurement of height of grass and weeds</p> <p>c) Encroachment Visual inspection of instances of encroachment of vegetation</p> <p>d) Wildflowers Visual Inspection with audit of process.</p> <p>e) Sight lines Visual inspection</p>	<p>Individual measurement areas to have 95% of height of grass and weeds between 5 in. and 30 in</p> <p>Occurrences of vegetation encroachment in each auditable section</p> <p>Adherence to vegetation management manuals</p> <p>Instances of impairment of sight lines or sight distance to signs</p>	<p>100%</p> <p>Nil</p> <p>100%</p> <p>Nil</p>	<p>b) Rural areas Physical measurement of height of grass and weeds</p> <p>c) Encroachment Visual inspection of instances of encroachment of vegetation</p> <p>d) Wildflowers Visual Inspection with audit of process.</p> <p>e) Sight lines Visual inspection</p>	<p>Individual measurement areas to have 95% of height of grass and weeds between 5 in. and 30 in</p> <p>Occurrences of vegetation encroachment in each auditable section</p> <p>Adherence to vegetation management manuals</p> <p>Instances of impairment of sight lines or sight distance to signs</p>	<p>100%</p> <p>Nil</p> <p>100%</p> <p>Nil</p>
	10.2	Landscaped Areas	<p>i) All landscaped areas are maintained to their originally constructed condition. Landscaped areas are as designated in the plans.</p>	24 hrs	7 days	28 days	Visual inspection	Inspection records showing compliance	100%	Visual inspection	Inspection records showing compliance	100%
			<p>ii) Mowing, litter pickup, irrigation system maintenance and operation, plant maintenance, pruning, insect, disease and pest control, fertilization, mulching, bed maintenance, watering is undertaken as per FMP.</p> <p>iii) The height of grass and weeds is kept between 2" and 8". Mowing begins before vegetation reaches 8 in</p> <p>iv) Damaged or dead vegetation is replaced.</p>									
	10.3	Fire Hazards	Fire hazards are controlled	24 hrs	7 days	28 days	Visual inspection	Instances of dry brush or vegetation forming fire hazard	Nil	Visual inspection	Instances of dry brush or vegetation forming fire hazard	Nil

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				Cat 1	Cat 1	Cat 2						
				Hazard Mitigation	Permanent Remedy	Permanent Repair						
	10.4	Trees, brush and ornamentals	i) Trees, brush and ornamentals on the right of way, except in established no mow areas, are trimmed in accordance with TxDOT standards.	24 hrs	7 days	28 days	Visual inspection	Inspection records showing compliance	100%	Visual inspection	Inspection records showing compliance	100%
	10.4 Cont.		ii) Trees, brush and ornamentals are trimmed to insure they do not interfere with vehicles or sight distance, or inhibit the visibility of signs. iii) Dead trees, brush, ornamentals and branches are removed. Potentially dangerous trees or limbs are removed. iv) All undesirable trees and vegetation are removed. Diseased trees or limbs are treated or removed by licensed contractors.									
	10.5	Wetlands	Wetlands are managed in accordance with the permit requirements	24 hrs	7 days	28 days	Visual inspection, assessment of permit issuers	Instances of permit requirements not met	Nil	Visual inspection, assessment of permit issuers	Instances of permit requirements not met	Nil

11) REST AREAS AND PICNIC AREAS

* - Items in these columns shall be reviewed annually by Developer as part of the MMP to comply with Technical Documents and/or Good Industry Practice.

	11.1	Rest areas and picnic areas	i) Picnic areas are clean and neat in appearance.	24 hrs	28 days	6 months	Inspection records showing compliance	Instances where 90% of measured area shall have grass and weeds height between 2 in. and 8 in.	100%	N/A	Instances where 90% of measured area shall have grass and weeds height between 2 in. and 8 in.	100%
			ii) Trash barrels are painted and attached to their supports to prevent stealing.					Mowing shall begin before vegetation reaches 8 in.	100%		Mowing shall begin before vegetation reaches 8 in.	100%
			iii) Site free of any visible litter, all litter properly disposed. Litter removed from the picnic area grounds and barrels before being allowed to accumulate outside of the barrels.					Number of bare ground areas larger than 5 square feet	Nil		Number of bare ground areas larger than 5 square feet	Nil
			iv) All vehicles used in transporting litter are equipped to prevent the accumulated litter from being strewn along the roadway.					Number of prohibited, invasive or noxious weeds present.	Nil		Number of prohibited, invasive or noxious weeds present.	Nil
			v) Vegetation damaged due to improper or careless mowing and trimming operations or any other reason is replaced.					Occurrences of encroachment of vegetation or debris for more than two (2) inches onto any curb or sidewalk located throughout each rest area.	Nil	N/A		

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				Cat 1	Cat 1	Cat 2						
				Hazard Mitigation	Permanent Remedy	Permanent Repair						
	11.1 Cont.		vi) Weeds, grass and other undesirable growth are removed from beds of plants and shrubs as needed. Trees and shrubs are trimmed neatly. All curbs and sidewalks are edged and repaired. vii) All picnic tables are clean, free of stains and free of any defect. viii) All directional, informational, safety and any other sign is properly installed, contains accurate information and is visible from a reasonable distance. ix) All striping is intact and all parking and travel areas are clearly marked. x) All curbs are in place and intact.					Occurrences of deviation of soil or mulch above or below the top of the curb.	Nil		Occurrences of deviation of soil or mulch above or below the top of the curb.	Nil
								Paved surfaces maintained clean and safe with minimal obstruction. Occurrences of undermining greater than 2"	100% Nil		Paved surfaces maintained clean and safe with minimal obstruction. Occurrences of undermining greater than 2"	100% Nil
								Number of unsealed cracks > ½ inch.	Nil		Number of unsealed cracks > ½ inch.	Nil
								Number of lights fully functional.	100%		Number of lights fully functional.	100%
12) EARTHWORKS, EMBANKMENTS AND CUTTINGS												
	12.1	Slope Failure	All structural or natural failures of the embankment and cut slopes of the Facility are repaired	24 hrs	28 days	6 months	Visual inspection by geotechnical specialist and further tests as recommended by the specialist	Recorded instances of slope failure	Nil	Visual inspection by geotechnical specialist and further tests as recommended by the specialist	Recorded instances of slope failure	Nil
* - Items in these columns shall be reviewed annually by Developer as part of the MMP to comply with Technical Documents and/or Good Industry Practice.												
	12.2	Slopes - General	Slopes are maintained in general conformance to the original graded cross-sections, the replacement of landscaping materials, reseeding and re-vegetation for erosion control purposes and removal and disposal of all eroded materials from the roadway and shoulders	24 hrs	28 days	6 months		Inspection records showing compliance	100%		Inspection records showing compliance	100%
13) ITS and ETCS EQUIPMENT												
	13.1	ETCS Equipment - Maintenance	All ITS and ETCS equipment is fully functional and housing is functioning and free of defects. i) All equipment and cabinet identification numbers are visible, sites are well drained and access is clear. ii) Steps, handrails and accesses are kept in a good condition.	24 hrs	14 days	1 month	Visual Inspection	Inspection records showing compliance	100%	Visual Inspection	Inspection records showing compliance	100%

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				Cat 1	Cat 1	Cat 2						
				Hazard Mitigation	Permanent Remedy	Permanent Repair						
			iii) Access to all communication hubs, ground boxes, cabinets and sites is clear,									
	13.1 Cont.		iv) All drainage is operational and all external fixtures and fittings are in a satisfactory condition. v) All communications cable markers, cable joint markers and duct markers are visible and missing markers are replaced. vi) Backup power supply system is available at all times									
	13.2	VES Equipment - Maintenance	All VES equipment is kept clean, the identification numbers are visible.	24 hrs	14 days	1 month	Visual Inspection	Inspection records showing compliance	100%	Visual Inspection	Inspection records showing compliance	100%
	13.3	Dynamic Message Sign Equipment	Dynamic Message Signs are free from faults such as: i) Any signal displaying a message which is deemed to be a safety hazard	2 hrs	24 hrs	14 days	Defect measurement dependent on equipment	Inspection records showing compliance	100%	Defect measurement dependent on equipment	Inspection records showing compliance	100%
			ii) Failure of system to clear sign settings when appropriate. iii) 2 or more contiguous sign failures that prevent control office setting strategic diversions iv) Signs displaying an incorrect message.									
	13.4	CCTV Equipment	CCTV Systems are free from serious faults that significantly limit the availability of the operators to monitor the area network, such as: i) Failure of CCTV Systems to provide control offices with access and control of CCTV images ii) Failure of a CCTV camera or its video transmission system. iii) Failure of a Pan / Tilt unit or its control system.	2 hrs	24 hrs	14 days	Defect measurement dependent on equipment	Inspection records showing compliance	100%	Defect measurement dependent on equipment	Inspection records showing compliance	100%

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				Cat 1	Cat 1	Cat 2						
				Hazard Mitigation	Permanent Remedy	Permanent Repair						
			iv) Moisture ingress onto CCTV camera lens v) Faults that result in significant degradation of CCTV images									
	13.5	Vehicle Detection Equipment	All equipment free of defects and operational problems such as; i) Inoperable loops. ii) Malfunctioning camera controllers. iii) Side-fire Radar iv) Bluetooth probe data collection	2 hrs	24 hrs	1 month	Defect measurement dependent on equipment Traffic Detector Loops: Loop circuit's inductance to be > 50 and < 1,000 micro henries. Insulation resistance to be > 50 meg ohms.	Inspection records showing compliance Instances of loops out of compliance	100% Nil	Defect measurement dependent on equipment Traffic Detector Loops: Loop circuit's inductance to be > 50 and < 1,000 micro henries. Insulation resistance to be > 50 meg ohms.	Inspection records showing compliance Instances of loops out of compliance	100% Nil
* - Items in these columns shall be reviewed annually by Developer as part of the MMP to comply with Technical Documents and/or Good Industry Practice.												
14) TOLLING Facilities and Buildings (Not Used)												
15) AMENITY												
	15.1	Graffiti	Graffiti is removed in a manner and using materials that restore the surface to a like appearance similar to adjoining surfaces	24 hrs	28 days	6 months	All graffiti is considered a Category 1 defect	Inspection records showing compliance	100%	All graffiti is considered a Category 1 defect	Inspection records showing compliance	100%
16) SNOW AND ICE CONTROL												
	16.1	Travel lanes	Maintain travel way free from snow and ice	2 hrs	N/A	N/A	Maximum 1hr response time to complete manning and loading of spreading vehicles Maximum 2hrs from departure from loading point to complete treatment and return to loading point Maximum 1hr response time for snow and ice clearance vehicles to depart from base	Inspection records showing compliance	100%	Maximum 1hr response time to complete manning and loading of spreading vehicles Maximum 2hrs from departure from loading point to complete treatment and return to loading point Maximum 1hr response time for snow and ice clearance vehicles to depart from base	Inspection records showing compliance	100%
	16.2	Weather Forecasting	Weather forecast information is obtained and assessed and appropriate precautionary treatment is carried out to prevent ice forming on the travel way	2 hrs	N/A	N/A	Operations plan details the process and procedures in place and followed	Inspection records showing compliance	100%	Operations plan details the process and procedures in place and followed	Inspection records showing compliance	100%
	16.3	Operational Plans	Operate 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 hrs	N/A	N/A	Operations plan details the process and procedures in place and followed	Inspection records showing compliance	100%	Operations plan details the process and procedures in place and followed	Inspection records showing compliance	100%

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				Cat 1	Cat 1	Cat 2						
				Hazard Mitigation	Permanent Remedy	Permanent Repair						
17) INCIDENT RESPONSE												
	17.1	General	Respond to Incidents in accordance with Section 22.	1 hr	N/A	N/A	Response times met for 98% of incidents measured on a 1 year rolling basis. No complaints from Emergency Services.	Inspection records showing compliance	100%	Response times met for 98% of incidents measured on a 1 year rolling basis. No complaints from Emergency Services.	Inspection records showing compliance	100%
	17.2	Hazardous Materials	For any hazardous materials spills, comply with the requirements of Section 22.	1 hr	N/A	N/A	FMP details the process and procedures in place and followed.	Inspection records showing compliance	100%	FMP details the process and procedures in place and followed.	Inspection records showing compliance	100%
	17.3	Structural assessment	Evaluate structural damage to structures and liaise with emergency services to ensure safe working in clearing the incident	1 hr	N/A	N/A	Inspections and surveys as required by incident	Inspection records showing compliance	100%	Inspections and surveys as required by incident	Inspection records showing compliance	100%
	17.4	Temporary and permanent remedy	Propose and implement temporary measures or permanent repairs to Defects arising from the Incident. Ensure the structural safety of any structures affected by the incident	24 hrs	28 days	N/A	Review and inspection of the incident site	Auditable inspection records showing compliance	100%	Review and inspection of the incident site	Auditable inspection records showing compliance	100%
18) CUSTOMER RESPONSE												
* - Items in these columns shall be reviewed annually by Developer as part of the MMP to comply with Technical Documents and/or Good Industry Practice.												
	18.1	Response to inquiries	Timely and effective response to customer inquiries and complaints.	48 hrs	28 days	N/A	Contact the customer within 48 hours following initial customer inquiry.	Number of responses within specified times	100%	Contact the customer within 48 hours following initial customer inquiry.	Number of responses within specified times	100%
							All work resulting from customer requests is scheduled within 48 hours of customer contact. Follow-up contact with the customer within 72 hours of initial inquiry. All customer concerns/requests are resolved to TxDOT's satisfaction within 2 weeks of the initial inquiry.			All work resulting from customer requests is scheduled within 48 hours of customer contact. Follow-up contact with the customer within 72 hours of initial inquiry. All customer concerns/requests are resolved to TxDOT's satisfaction within 2 weeks of the initial inquiry.		
	18.2	Customer contact line	Telephone line manned during business hours and 24 hour availability of messaging system. Faults to telephone line or message system rectified	24 hrs	28 days	N/A	Instances of line out of action or unmanned	Operations records showing non availability including complaints from public.	Nil	Instances of line out of action or unmanned	Operations records showing non availability including complaints from public.	Nil
19) SWEEPING AND CLEANING												
	19.1	Sweeping	i) Keep all channels, hard shoulders, gore areas, ramps, intersections, islands and frontage roads swept clean,	24 hrs	28 days	6 months	Buildup of dirt, ice rock, debris, etc. on roadways and bridges not to accumulate greater than 24" wide or 1/2" deep	Inspection records showing compliance	100%	Buildup of dirt, ice rock, debris, etc. on roadways and bridges not to accumulate greater than 24" wide or 1/2" deep	Inspection records showing compliance	100%

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				Cat 1	Cat 1	Cat 2						
				Hazard Mitigation	Permanent Remedy	Permanent Repair						
			ii) Clear and remove debris from traffic lanes, hard shoulders, verges and central reservations, footways and cycle ways iii) Remove all sweepings without stockpiling in the right of way and dispose of at approved tip.									
	19.2	Litter	i) Keep the right of way in a neat condition, remove litter regularly ii) Pick up large litter items before mowing operations.	24 hrs	28 days	6 months	No more than 20 pieces of litter per roadside mile shall be visible when traveling at highway speed.	Inspection records showing compliance	100%	No more than 20 pieces of litter per roadside mile shall be visible when traveling at highway speed.	Inspection records showing compliance	100%
			Dispose of all litter and debris collected at an approved solid waste site.									

* - Items in these columns shall be reviewed annually by Developer as part of the MMP to comply with Technical Documents and/or Good Industry Practice