## Texas Department of Transportation TECHNICAL PROVISIONS

**FOR** 

**TXDOT SH 288 TOLL LANES PROJECT IN HARRIS COUNTY** 

ATTACHMENT 19-1
PERFORMANCE AND MEASUREMENT TABLE BASELINE

**January 31, 2014** 

ELEMENT	DEE		PERFORMANCE	RESPON	ISE TO DEFE	CTS	INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD	TARGET.	INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD (FROM OPERATING	TAR CET
ATEGORY	REF	ELEMENT	REQUIREMENT	Cat 1 Hazard Mitigation	Cat 1 Permanent Remedy	Cat 2 Permanent Repair	(AFTER SERVICE COMMENCEMENT)*	(AFTER SERVICE COMMENCEMENT*	TARGET	(FROM OPERATING COMMENCEMENT DATE TO SERVICE COMMENCMENT)	COMMENCEMENT DATE TO SERVICE COMMENCEMENT)	TARGET
ROADWAY				•								
							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.			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.		
	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	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:		Pavement Condition Score will not be measured for this phase.		
			boxes) with adequate skid resistance and free from					• Mainlanes and ramps - 90 • Frontage roads - 80	100% 100%			N/A N/A
			Defects.					Pavement Condition Score for 80% of Auditable Sections exceeding:				
								Mainlanes and ramps - 80	100%			
								• Frontage roads - 70	100%			
							b) Ruts – Mainlanes, shoulders & ramps Depth as measured using an automated device in compliance with TxDOT Standards.	Perecentage of wheel path length with ruts greater than ½" in depth in each Audtiable Section		Visual inspection at travel speed		
								• Mainlanes, shoulders and ramps - 3%	Nil			N/A
								• Frontage roads - 10%	Nil			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:		Ride quality will not be measured during this phase.		
								• Mainlanes, ramps - 95" per mile**	100%			N/A
								• Frontage roads - 120" per mile**	100%			N/A

				DECDON	ICE TO DEFE	CTC				INSPECTION AND	MEASUREMENT RECORD	
ELEMENT			PERFORMANCE	RESPON	ISE TO DEFE	CIS	INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD		MEASUREMENT METHOD	(FROM OPERATING	
CATEGORY	REF	ELEMENT	REQUIREMENT	Cat 1	Cat 1	Cat 2	(AFTER SERVICE	(AFTER SERVICE COMMENCEMENT*	TARGET	(FROM OPERATING COMMENCEMENT DATE TO	COMMENCEMENT DATE TO SERVICE	TARGET
				Hazard Mitigation	Permanent Remedy	Permanent Repair	COMMENCEMENT)*	(02.12.2.12.12.12.12.12.12.12.12.12.12.12.		SERVICE COMMENCMENT)	COMMENCEMENT)	
	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**	100%			N/A
								• Frontage roads - 150" per mile**	100%		• Frontage roads - 150" per mile**	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 are in excess of 30.	100%	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 are in excess of 30.	100%
								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	100%		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	100%

ELEMENT	REF	ELEMENT	PERFORMANCE	RESPON	SE TO DEFE	CTS	INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD (AFTER SERVICE	TARGET	INSPECTION AND MEASUREMENT METHOD (FROM OPERATING	MEASUREMENT RECORD (FROM OPERATING COMMENCEMENT DATE	TARGE
ATEGORY	REF	ELEMENT	REQUIREMENT	Cat 1 Hazard Mitigation	Cat 1 Permanent Remedy	Cat 2 Permanent Repair	(AFTER SERVICE COMMENCEMENT)*	(AFTER SERVICE COMMENCEMENT*	TARGET	COMMENCEMENT DATE TO SERVICE COMMENCMENT)	TO SERVICE COMMENCEMENT)	TARGE
	1.2 Cont.							When the Skid Number is below 25 and/or when required by the Wet Weather Accident Reduction Program, areas categorized as high risk, the Concessionaire shall perform a site investigation and perform required corrective action.	100%		When the Skid Number is below 25 and/or when required by the Wet Weather Accident Reduction Program, areas categorized as high risk, the Concessionaire shall perform a site investigation and perform required corrective action.	100%
			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 1/4"	Nil	Visual inspection of joints	Length unsealed joints greater than 1/4"	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 ½"	Nil	Measurement of joint width and level difference of two sides of joints	Joint width more than 1" or faulting more than ½"	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 the	se columns	s shall be reviewe	ed annually by Developer as part o	f the MMP to c	omply with Te	chnical Docum	ents and/or Good Industry Practice.					
DRAINAGE		1						T				
	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

ELEMENT	REF	ELEMENT	PERFORMANCE	RESPON	SE TO DEFE	CTS	INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD (AFTER SERVICE	TARGET	INSPECTION AND MEASUREMENT METHOD (FROM OPERATING	MEASUREMENT RECORD (FROM OPERATING COMMENCEMENT DATE	TARGET
ATEGORY	KEF	ELEMENT	REQUIREMENT	Cat 1	Cat 1	Cat 2	(AFTER SERVICE	COMMENCEMENT*	TARGET	COMMENCEMENT DATE TO	TO SERVICE	TARGE
				Hazard Mitigation	Permanent Remedy	Permanent Repair	COMMENCEMENT)*			SERVICE COMMENCMENT)	COMMENCEMENT)	
	2.4	Discharge	Surface water discharge	24 hrs	28 days	6 months	Visual inspection and records	Non-compliances with	Nil	Visual inspection and records	Non-compliances with	Nil
		systems	systems perform their proper function and discharge to groundwater and waterways complies with the relevant legislation and permits.				·	legislation		·	legislation	
	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%
STRUCTUR	ES											
	3.1	Structures having an opening measured along the centre of the roadway of more than 20 feet between	Substructures and superstructures are free of: • graffiti	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		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	
		undercopings of abutments or springlines of arches or	<ul> <li>undesirable vegetation</li> <li>debris and bird droppings</li> <li>blocked drains, weep pipes manholes and chambers</li> </ul>					Occurance of condition rating below six (6) for any deck, super structure or substructore	Nil		Occurrence of condition rating below six (6) for any deck, super structure or substructure	Nil
		extreme ends of openings or multiple boxes	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					All condition states to be one (1) for all structure components	100%		All condition states to be one (1) for all structure components	100%
Items in thes							ents and/or Good Industry Practice.	<u> </u>			T	
	3.2	Structure components	<ul><li>i) Expansion joints are free of:</li><li>dirt debris and vegetation</li></ul>	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		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	
			<ul><li>defects in drainage systems</li><li>loose nuts and bolts</li><li>defects in gaskets</li></ul>					Occurrences of condition rating below six(6) for any deck, superstructure or substructure	Nil		Occurrences of condition rating below six (6) for any deck, superstructure or substructure	Nil
			ii) The deck drainage system is free of all and operates as intended.	4				All condition states to be one (1) for all structure components	100%		All condition states to be one (1) for all structure components	100%

MENT	DEE		PERFORMANCE	RESPONS	SE TO DEFE	CTS	INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD	TARGET	INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD (FROM OPERATING	TA DOD
CGORY	REF	ELEMENT	REQUIREMENT	Cat 1	Cat 1	Cat 2	(AFTER SERVICE	(AFTER SERVICE COMMENCEMENT*	TARGET	(FROM OPERATING COMMENCEMENT DATE TO	COMMENCEMENT DATE TO SERVICE	TARGE
				Hazard Mitigation	Permanent Remedy	Permanent Repair	COMMENCEMENT)*			SERVICE COMMENCMENT)	COMMENCEMENT)	
			iii) Parapets are free of:									
			• 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:	24 hrs	28 days	6 months	Visual inspection	Number with vegetation, debris and silt	Nil	Visual inspection	Number with vegetation, debris and silt	Nil
			vegetation and debris and silt					Number with defects in sealant and movement joints	Nil		Number with defects in sealant and movement joints	Nil
			defects in sealant to movement joints									
			• scour damage					Number with soons domes	Nil		Number with soon domests	Nil
	3.4	Gantries and	Sign signal gantries, high masts	24 hrs	28 days	6 months	Visual inspection	Number with scour damage  Number with loose assemblies	Nil	Visual inspection	Number with scour damage  Number with loose assemblies	Nil
		high masts	are structurally sound and free of:									
			loose nuts and bolts					Number with defects in surface protection	Nil		Number with defects in surface protection	Nil
			defects in surface protection systems					protection			protection	
			• graffiti					Number with graffiti	Nil		Number with graffiti	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	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
							Bridge Inspection Manual.					

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ATEGORY	REF	ELEMENT	REQUIREMENT	Cat 1	Cat 1	Cat 2	(AFTER SERVICE	(AFTER SERVICE COMMENCEMENT*	TARGET	(FROM OPERATING COMMENCEMENT DATE TO	COMMENCEMENT DATE TO SERVICE	TARGE
				Hazard Mitigation	Permanent Remedy	Permanent Repair	COMMENCEMENT)*			SERVICE COMMENCMENT)	COMMENCEMENT)	
				Muguon	Remedy	Repair	Load restriction requirements as per the TxDOT Bridge Inspection Manual					
PAVEMENT	MARKI	NGS, OBJECT	MARKERS, BARRIER MARK	ERS AND DE	LINEATORS							
tems in thes							ents and/or Good Industry Practice.				T	
	4.1	Pavement markings	Pavement markings are:	24 hrs	28 days	6 months	a) Markings - General			a) Markings - General		
			clean and visible during the day and at night				General Portable retroreflectometer, which uses 30 meter geometry	Length meeting the minimum retroreflectivity 175 med/sqm/lx	100%	Visual inspection at 300 ft with low beams as per earlier TxDOT practice.	Length found defective.	100%
			whole and complete and of the correct color, type, width and length				meeting the requirements described in ASTM E 1710	for white				
			• placed to meet the TMUTCD and TxDOT's Pavement Marking Standard Sheets					Length meeting the minimum retroreflectivity 125 med/sqm/lx for white	100%			100%
							Physical measurement	Length with more than 5% loss of area of material at any point	Nil	Visual inspection	Length with more than 5% loss of area of material at any point	Nil
								Length with spread more than 10% of specified dimensions.	Nil		Length with spread more than 10% of specified dimensions.	Nil
							b) Profile Markings Visual inspection	Length performing its intended function and compliant with relevant regulations	100%	b) Profile Markings Visual inspection	Length performing its intended function and compliant with relevant regulations	100%
	4.2	Raised reflective markers	Raised reflective pavement markers, object markers and delineators are:	24 hrs	28 days	6 months	Visual inspection	Number of markers associated with road markings that are ineffective in any 10 consecutive	Nil	Visual inspection	Number of markers associated with road markings that are ineffective in any 10 consecutive	Nil
			clean and clearly visible					markers. (Ineffective includes missing, damaged, settled or			markers. (Ineffective includes missing, damaged, settled or	
			• of the correct color and type					sunk)	1000/		sunk)	1000/
			reflective or retroreflective as TxDOT standard     correctly located, aligned and					[A minimum of four markers should be visible at 80' spacing when viewed under low beam	100%		[A minimum of four markers should be visible at 80' spacing when viewed under low beam	100%
			at the correct level					headlights]			headlights]	
			are firmly fixed					Uniformity (replacement rpms having equivalent physical and			Uniformity (replacement rpms having equivalent physical and	
			• are in a condition that will ensure that they remain at the correct level.					performance characteristics to adjacent markers).			performance characteristics to adjacent markers).	
	4.3	Delineators & Markers	Object markers, mail box markers and delineators are:	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
			• clean and visible					g				
			of the correct color and type									
			legible and reflective									
			Straight and Vertical					-				
HARDRAI	LS, SAFI	TY BARRIER	S AND IMPACT ATTENUATO	RS	1	1	<u>I</u>	1		ı	<u>l</u>	
·	5 1	Guard rails	All guardrails, safety barriers,	24 hrs	28 days	6 months	T	Length of road restraint systems	100%	T	Length of road restraint systems	100%

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CATEGORY	KEF	ELEVIENT	REQUIREMENT	Cat 1 Hazard	Cat 1 Permanent	Cat 2 Permanent	(AFTER SERVICE COMMENCEMENT)*	COMMENCEMENT*	TARGET	COMMENCEMENT DATE TO SERVICE COMMENCMENT)	TO SERVICE COMMENCEMENT)	TARGET
				Mitigation	Remedy	Repair				SERVICE CONTINUE (CONTEXT)	,	
			They are appropriately placed and correctly installed at the					Length free from defects	100%		Length free from defects	100%
			correct height and distance					Length at correct height	100%		Length at correct height	100%
	5.1 Cont.		from roadway or obstacles. Installation and repairs shall be carried out in accordance with the requirements of NCHRP 350 standards.					Length at correct distance from roadway and obstacle	100%		Length at correct distance from roadway and obstacle	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%
TRAFFIC S	IGNS											
	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	24 hrs	28 days	6 months	a) Retroreflectivity Coefficient of retro -reflectivity	Number of signs with reflectivity below the requirements of TxDOT's TMUTCD	Nil	Visual inspection at 300 ft with low beams as per earlier TxDOT practice	Number of signs found nonreflective.	Nil
			ii) Identification markers are provided, correctly located, visible, clean and legible				b) Face damage Visual inspection	Number of signs with face damage greater than 5% of area	Nil	b) Face damage Visual inspection	Number of signs with face damage greater than 5% of area	Nil
			iii) Sign mounting posts are vertical, structurally sound and rust free				c) Placement Visual inspection	Signs are placed in accordance with TxDOT's Sign Crew Field Book including not twisted or leaning	100%	No action	Signs are not twisted or leaning	100%
			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				d) Obsolete signs Visual inspection	Number of obsolete signs	Nil	No action	Number of obsolete signs	Nil
			vi) Visibility distances meet the stated requirements vii) Sign information is of the				e) Sign Information Visual inspection		100%	e) Sign Information Visual inspection		100%
			correct size, location, type and wording to meet its intended purpose and any statutory requirements					Sign information is of the correct size, location, type and wording			Sign information is of the correct size, location, type and wording	
			viii) All structures and					to meet its intended purpose			to meet its intended purpose	
			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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ATEGORY	KEF	EDENTER	REQUIREMENT	Cat 1	Cat 1	Cat 2	(AFTER SERVICE COMMENCEMENT)*	COMMENCEMENT*	TARGET	COMMENCEMENT DATE TO	TO SERVICE	TARGET
				Hazard Mitigation	Permanent Remedy	Permanent Repair				SERVICE COMMENCMENT)	COMMENCEMENT)	
							inspection	fully functioning				
· Items in thes	6.2	General -	Requirements as 6.1, Plus:	t the MMP to c	omply with Ted  1 week	6 months	nts and/or Good Industry Practice.  Visual inspection	Number of damaged Safety	Nil	Visual inspection	Number of damaged Safety	Nil
		Safety	"Stop," "Yield," "Do Not				· · · · · · · · · · · · · · · · · · ·	critical signs		· · · · · · · · · · · · · · · · · · ·	critical signs	
		critical signs	Enter," "One Way" and									
			"Wrong Way" signs are clean legible and undamaged.									
TRAFFIC S	7.1	General	i) Traffic Signals and their	2hrs	24 hrs	6 months	a) General condition Visual	Signals are clean and visible	100%	a) General condition Visual	Signals are clean and visible	100%
			associated equipment are:				inspection			inspection		
			<ul> <li>clean and visible</li> </ul>				b) Damage Visual inspection	Signals are undamaged	100%	b) Damage Visual inspection	Signals are undamaged	100%
			<ul> <li>correctly aligned and operational</li> </ul>				c) Signal timing Timed measurements	Installations have correct signal timings	100%	c) Signal timing Timed measurements	Installations have correct signal timings	100%
			• free from damage caused by accident or vandalism				d) Contingency plans Records Review	Full contingency plans are in place	100%	d) Contingency plans Records Review	Full contingency plans are in place	100%
			<ul> <li>correctly aligned and operational</li> </ul>									
			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									
	7.2	Soundness	Traffic Signals are structurally and electrically sound	24 hrs	28 days	6 months	a) Structural soundness Visual inspection			a) Structural soundness Visual inspection		
							b) Electrical soundness Testing to meet NEC regulations	Inspection records showing safe installation and maintenance	100%	b) Electrical soundness Testing to meet NEC regulations	Inspection records showing safe installation and maintenance	100%
	7.3	Identification	Signals have identification	N/A	28 days	6 months	Visual inspection	Inspection records showing	100%	Visual inspection	Inspection records showing	100%
		marking	markers and the telephone number for reporting faults are correctly located, clearly visible, clean and legible					identification markers and other information are easily readable			identification markers and other information are easily readable	
	7.4	Pedestrian	All pedestrian elements and	24 hrs	28 days	6 months	Visual inspection	Inspection records showing	100%	Visual inspection	Inspection records showing	100%
		Elements and Vehicle	vehicle detectors are correctly positioned and fully functional					compliance			compliance	
		Detectors	at all times									
Items in thes	se columns	s shall be reviewe	ed annually by Developer as part o	f the MMP to c	omply with Ted	chnical Docume	ents and/or Good Industry Practice.		l	1		
LIGHTING												
	8.1	Roadway Lighting – General	i) All lighting is free from defects and provides acceptable uniform lighting quality	24 hrs	28 days	6 months	a) Mainlane lights operable Night time inspection or automated logs	Number of sections with less than 90% of lights functioning	Nil	a) Mainlane lights operable Night time inspection or automated logs	Number of sections with less than 90% of lights functioning	Nil
		Jeneral	ii) Lanterns are clean and				b) Mainlane lights out of action	correctly at all times	Nil	b) Mainlane lights out of action	correctly at all times	Nil
			correctly positioned				Night time inspection or automated	Instances of more than two consecutive lights out of action	1411	Night time inspection or automated	Instances of more than two consecutive lights out of action	1111

ELEMENT CATEGORY	REF	ELEMENT	PERFORMANCE REQUIREMENT	RESPON  Cat 1  Hazard  Mitigation	Cat 1 Permanent Remedy	Cat 2 Permanent Repair	INSPECTION AND MEASUREMENT METHOD (AFTER SERVICE COMMENCEMENT)*	MEASUREMENT RECORD (AFTER SERVICE COMMENCEMENT*	TARGET	INSPECTION AND MEASUREMENT METHOD (FROM OPERATING COMMENCEMENT DATE TO SERVICE COMMENCMENT)	MEASUREMENT RECORD (FROM OPERATING COMMENCEMENT DATE TO SERVICE COMMENCEMENT)	TARGET
			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	
	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)	24 hrs	48 days	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
			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)									
FENCES, W	VALLS A	ND SOUND ABA										
	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%
) ROADSID	E MANA	GEMENT			•							
Items in the							ents 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	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%

LEMENT	DEE	EL EL MENTE	PERFORMANCE	RESPON	SE TO DEFE	CTS	INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD	TA DOET	INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD (FROM OPERATING	TARCE
ATEGORY	REF	ELEMENT	REQUIREMENT	Cat 1 Hazard Mitigation	Cat 1 Permanent Remedy	Cat 2 Permanent Repair	(AFTER SERVICE COMMENCEMENT)*	(AFTER SERVICE COMMENCEMENT*	TARGET	(FROM OPERATING COMMENCEMENT DATE TO SERVICE COMMENCMENT)	COMMENCEMENT DATE TO SERVICE COMMENCEMENT)	TARGET
	10.1 Cont.		ii) Spot mowing at intersections, ramps or other areas maintains visibility of appurtenances and sight distance.				b) Rural 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 30 in	100%	b) Rural 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 30 in	100%
			iii) Grass or vegetation does not encroach into or on paved shoulders, main lanes, sidewalks, islands, riprap, traffic barrier or curbs.				c) Encroachment Visual inspection of instances of encroachment of vegetation	Occurrences of vegetation encroachment in each auditable section	Nil	c) Encroachment Visual inspection of instances of encroachment of vegetation	Occurrences of vegetation encroachment in each auditable section	Nil
			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.				<b>d) Wildflowers</b> Visual Inspection with audit of process.	Adherence to vegetation management manuals	100%	<b>d) Wildflowers</b> Visual Inspection with audit of process.	Adherence to vegetation management manuals	100%
			v) A full width mowing cycle is completed after the first frost.				e) Sight lines Visual inspection	Instances of impairment of sight lines or sight distance to signs	Nil	e) Sight lines Visual inspection	Instances of impairment of sight lines or sight distance to signs	Nil
	10.2	Landscaped Areas	i) All landscaped areas are maintained to their originally constructed condition. Landscaped areas are as designated in the plans.	24 hrs	7 days	28 days	Visual inspection	Inspection records showing compliance	100%	Visual inspection	Inspection records showing compliance	100%
			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.									
			iii) The height of grass and weeds is kept between 2" and 8". Mowing begins before vegetation reaches 8 in									
			iv) Damaged or dead vegetation is replaced.									
	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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LEMENT	REF	ELEMENT	PERFORMANCE	RESPON	SE TO DEFE	CTS	INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD (AFTER SERVICE	TARGET	INSPECTION AND MEASUREMENT METHOD (FROM OPERATING	MEASUREMENT RECORD (FROM OPERATING COMMENCEMENT DATE	TARGE'
TEGORY			REQUIREMENT	Cat 1 Hazard	Cat 1 Permanent	Cat 2 Permanent	(AFTER SERVICE COMMENCEMENT)*	COMMENCEMENT*		COMMENCEMENT DATE TO SERVICE COMMENCMENT)	TO SERVICE COMMENCEMENT)	
				Mitigation	Remedy	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
REST AR	EAS AND	PICNIC AREA	AS				•				·	
tems in the	se column	s shall be review	ed annually by Developer as part of	f the MMP to	comply with Te	chnical Docum	ents 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					Number of bare ground areas larger than 5 square feet	Nil		Number of bare ground areas larger than 5 square feet	Nil
			accumulate outside of the barrels.									
			accumulate outside of the barrels.  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

Performance	e and Me	easurement Ta	able Baseline	T			1		T			
ELEMENT	REF	ELEMENT	PERFORMANCE	RESPON	SE TO DEFE	CTS	INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD (AFTER SERVICE	TARGET	INSPECTION AND MEASUREMENT METHOD (FROM OPERATING	MEASUREMENT RECORD (FROM OPERATING COMMENCEMENT DATE	TARGET
CATEGORY	KEF	ELEVIENI	REQUIREMENT	Cat 1	Cat 1	Cat 2	(AFTER SERVICE	COMMENCEMENT*	IARGEI	COMMENCEMENT DATE TO	TO SERVICE	TARGET
				Hazard Mitigation	Permanent Remedy	Permanent Repair	COMMENCEMENT)*			SERVICE COMMENCMENT)	COMMENCEMENT)	
			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.					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
	11.1 Cont.		vii) All picnic tables are clean, free of stains and free of any defect.					Paved surfaces maintained clean and safe with minimal obstruction.	100%		Paved surfaces maintained clean and safe with minimal obstruction.	100%
			viii) All directional, informational, safety and any other sign is properly installed, contains accurate information and is visible from a reasonable distance.					Occurrences of undermining greater than 2"	Nil		Occurrences of undermining greater than 2"	Nil
			ix) All striping is intact and all parking and travel areas are clearly marked.					Number of unsealed cracks > ½ inch.	Nil		Number of unsealed cracks > ½ inch.	Nil
			x) All curbs are in place and intact.					Number of lights fully functional.	100%		Number of lights fully functional.	100%
2) EARTHW			S AND CUTTINGS			1			T	T		
	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 the	se column	s shall he reviewe	l ed annually by Developer as part o	.f the MMP to c	nomply with Te	L Chnical Docume	ents and/or Good Industry Practice.				<u>                                     </u>	
items in the	12.2	Slopes - General	Slopes are maintained in general conformance to the original graded cross-sections, the replacement of landscaping materials, reseeding and revegetation for erosion control purposes and removal and disposal of all eroded materials from the roadway and shoulders	24 hrs	28 days	6 months	and of Good mustry Fractice.	Inspection records showing compliance	100%		Inspection records showing compliance	100%
3) ITS and E												
	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%

ELEMENT CATEGORY			PERFORMANCE	RESPON	SE TO DEFE	CTS	INSPECTION AND MEASUREMENT METHOD  MEASUREMENT RECORD			INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD (FROM OPERATING	
	REF	ELEMENT	iii) Access to all communication hubs, ground boxes, cabinets and sites is clear,	Cat 1 Hazard	Cat 1 Permanent	Cat 2 Permanent	(AFTER SERVICE COMMENCEMENT)*	(AFTER SERVICE COMMENCEMENT*	TARGET		COMMENCEMENT DATE TO SERVICE COMMENCEMENT)	TARGET
				Mitigation	Remedy	Repair						
	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									
	13.2	VES Equipment - Maintenance	replaced. vi) Backup power supply system is available at all times 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 an 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									
	13.4	CCTV Equipment	iv) Signs displaying an incorrect message.  CCTV Systems are free from serious faults that significantly limit the availability of the	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%
			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.									

ELEMENT CATEGORY				RESPONSE TO 1		CTS	INSPECTION AND	MEASUREMENT RECORD		INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD (FROM OPERATING	
	REF	ELEMENT	PERFORMANCE REQUIREMENT	G + 1	G . 1	G + 2	MEASUREMENT METHOD (AFTER SERVICE	(AFTER SERVICE	TARGET	(FROM OPERATING	COMMENCEMENT DATE	TARGET
			1115(0111111111111111111111111111111111	Cat 1 Hazard	Cat 1 Permanent	Cat 2 Permanent	COMMENCEMENT)*	COMMENCEMENT*		COMMENCEMENT DATE TO SERVICE COMMENCMENT)	TO SERVICE COMMENCEMENT)	
				Mitigation	Remedy	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;	2 hrs	24 hrs	1 month	Defect measurement dependent on equipment	Inspection records showing compliance	100%	Defect measurement dependent on equipment	Inspection records showing compliance	100%
			i) Inoperable loops.				Traffic Detector Loops:		Traffic Detector Loops:	Instances of loops out of	Nil	
			ii) Malfunctioning camera controllers.				Loop circuit's inductance to be > 50 and < 1,000 micro henries.	compliance	ompliance	Loop circuit's inductance to be > 50 and < 1,000 micro henries.	compliance	
							Insulation resistance to be > 50 meg ohms.			Insulation resistance to be > 50 meg ohms.		
- Items in the	se columns	s shall be reviewe	ed annually by Developer as part o	of the MMP to c	omply with Te	chnical Docume	ents and/or Good Industry Practice.					
) TOLLING	Facilities	and Buildings (	Not Used)	_	1	Г	1	1		T	1	
) AMENITY	7											
	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%
6) SNOW AN	ND ICE C	ONTROL			I			1				
) SNOW AI	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	Inspection records showing compliance	100%	Maximum 1hr response time to complete manning and loading of spreading vehicles	Inspection records showing compliance	100%
							Maximum 2hrs from departure from loading point to complete treatment and return to loading point			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			Maximum 1hr response time for snow and ice clearance vehicles to depart from base		
	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%
	1	1	ı	1	I	ı	ı	1	1	1	<u>.                                    </u>	
) INCIDENT	L BESDU	NSE:										

ELEMENT CATEGORY	e and IVIC	ELEMENT	PERFORMANCE REQUIREMENT	RESPONSE TO DEFECTS			INSPECTION AND	MEASUREMENT RECORD		INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD (FROM OPERATING	
	REF			Cat 1 Hazard	Cat 1 Permanent	Cat 2	MEASUREMENT METHOD (AFTER SERVICE COMMENCEMENT)*	(AFTER SERVICE COMMENCEMENT*	TARGET	(FROM OPERATING COMMENCEMENT DATE TO SERVICE COMMENCMENT)	COMMENCEMENT DATE TO SERVICE COMMENCEMENT)	TARGE
				Mitigation	Remedy	Repair				521(162 66111121(61121(1)	0011211211(0211221(1)	
							No complaints from Emergency Services.			No complaints from Emergency Services.		
	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	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%
			any structures affected by the incident									
8) CUSTOME	ER RESPO	ONSE										
- Items in thes	se columns	Response to inquiries	ed annually by Developer as part of Timely and effective response to customer inquiries and complaints.	of the MMP to o	comply with Te 28 days	chnical Documo N/A	ents and/or Good Industry Practice.  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.			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.			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 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
9) SWEEPING	G AND C	LEANING		-1			1		l		1	
	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%
			ii) Clear and remove debris from traffic lanes, hard shoulders, verges and central reservations, footways and									

Performance	Performance and Measurement Table Baseline													
ELEMENT	REF	ELEMENT	PERFORMANCE REQUIREMENT	RESPONSE TO DEFECTS			INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD		INSPECTION AND MEASUREMENT METHOD	MEASUREMENT RECORD (FROM OPERATING			
CATEGORY				Cat 1	Cat 1	Cat 2	(AFTER SERVICE COMMENCEMENT)*	(AFTER SERVICE COMMENCEMENT*	TARGET	(FROM OPERATING COMMENCEMENT DATE TO SERVICE COMMENCMENT)	COMMENCEMENT DATE TO SERVICE COMMENCEMENT)	TARGET		
				Hazard Mitigation	Permanent Remedy	Permanent Repair								
			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.											

<sup>\* -</sup> 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