SAMPLING AND TESTING GUIDE

						GUIDE FREQUENCY			
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
621								-	
CONCRETE	Concrete Ingred	lients Agents							
BARRIER	Portland	Air Content T137	1			1		1	
	Cement	Fineness M85	-						
		Autoclave M85	DOT-175						
		Compressive Strength M85	Ga175						
		Vicat 7131							
		Chemical M85							
	Portland	Air Content T137							
	Pozzolan	Fineness M240							
	Cement	Autoclave M240	DOT-175						
		Compressive Strength M240	Ga175						
		Vicat 7131							
		Chemical M240	1					1	
	Fly Ash	Physical & Chemical ASTM C311	DOT-175						
		Fineness M295		10 lbs.					
		Activity M295			QPL-30	One per Quarter, per			
		Soundness M295	Ga175			Source, per District			
		Density M295							
		Chemical M295							
	Fine Aggregate	Gradation T27			One per 500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.				
		Sand Equivalent <i>GDT-63</i>	DOT-658 Ga658	20 lbs.		QPL-1 Sources, 1 per month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Coarse	Wash 200 T11							
	Aggregate	Gradation 727	DOT-658 Ga658	45 lbs.	One per 1,500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-2 Sources, 1 per month , per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Water	Quality of Water to be Used in Concrete 726	Ga088	1 qt.*	One per unpotable Source, per month			Enough in advance so that results are known before use	*non-metal container
	Air Entrainment Admixtures	Air-Entraining Admixtures for Concrete M154	T152	1 qt.	QPL-13	One per 6 months, per Source, per District		Ready Mix Plant Stock	

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TYPE		TEST PROCEDURES	REPORT	SIZE OF		QUALITY	INDEPENDENT	LOCATION OR TIME OF	
CONSTRUCTION	MATERIAL	Name & <i>Number</i>	SM Report	SAMPLE	ACCEPTANCE	ASSURANCE	ASSURANCE	SAMPLING	REMARKS
	Chemical	Chemical Admixtures for Concrete		1 qt.	QPL-14	One per 6 months, per		Ready Mix Plant Stock	
	Admixtures	M194	-			Source, per District		,	
	Deck Oil		GACERT						
	Steel Bars for	Number M31M		[
	Reinforcement	Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M	Reinforce						
		Height & Gap M31M		2 pcs. @	QPL-12 & QPL-61	Random sampling at			
		Tensile Strength T244	Report Ga166	24" per size		Fabricator			
		Yield Strength T244 Elongation T244	Galloo						
		Bend Test T285							
		Chemical <i>M31M</i>							
	Joint Fillers & S		L	L	L	Ll		L	L
	Preformed Joint		Misc.	10"	QPL-20	1 1		Stock	Sample in accordance
	Filler		GACERT		d. 2 20				with SOP-17
	Hot Pour Joint	Penetration GDT-62							
	Sealers	Flow GDT-62			Pre-inspected by				
		Resilience GDT-62	Misc.	1 kit	Central Lab; 1 sample			Stock	
		Bond GDT-62	GACERT		per shipment				
		Compatibility GDT-62							
	Elastomeric	Cone Penetration GDT-15			Des la serie de la				
	Polymer Type	Solubility GDT-15	Misc.		Pre-inspected by Central Lab & Certified				
	Joint Compound	Resilience GDT-15	GACERT	1 kit	Mill Test Report; 1			Stock	
		Flow GDT-15			sample per shipment				
		Bond GDT-15							
	Preformed Elastic Joint	Tensile Strength ASTM D412							
	Sealer	Elongation at Break ASTM D412							
		Hardness ASTM D2240							
		Oven Aging ASTM D573	A		Pre-inspected by				
		Oil Swell ASTM D471	Misc. GACERT	36"	Central Lab & Certified Mill Test Report; 1			Stock	
		Ozone Resistance ASTM D1149	OAOEIN		sample per shipment				
		Joint Sealer Recovery GDT-47						-	
		Compression/Deflection GDT-70						-	
	Water-Blown	Specification 833.05	Misc.		Certified Mill Test				
	Urethane Joint Filler		GACERT		Report				
	Silicone Sealant	Tensile Stress ASTM D412							
		Hardness ASTM D2240	1		1			1	
		Bond <i>GDT-106</i>]]]	
		Tack Free Time GDT-106							
		Extrusion GDT-106	Misc.		QPL-66 <u>or</u> 1 sample			Stock	
		Non-Volatile GDT-106	GACERT		per batch, per Type				

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		Specific Gravity ASTM D792							
		Adhesion GDT-106							
		Resistance ASTM C793							
	Bond Breakers	Density ASTM D1622			Des is sea a start but				
	–Rods	Tensile Strength ASTM D1623	Misc.	6 ft	Pre-inspected by Central Lab & Certified			Stock	
		Water Absorption ASTM C1061	GACERT		Mill Test Report; 1 sample per shipment				
	Bond Breakers –Tape	Thickness	Misc. GACERT		Certified Mill Test Report				
	Neoprene for	Specification 833.07	Misc.		Certified Mill Test				
	Bridge Deck Joint Seal	Specification 655.07	GACERT		Report				
	Ethylene Propylene Diene Monomer for Bridge Deck Joint Seals	Specification 833.08	Misc. GACERT		Certified Mill Test Report				
	Polyurethane	Hardness ASTM D2240							
	Sealant for Inductive Loops	Tensile Strength ASTM D412	-		-				
		Elongation ASTM D412	Misc.		QPL-75				
		Flexibility	GACERT						
		Weather Resistance ASTM D822			-				
	Preformed Foam Joint Filler	Specification 833.10	Misc. GACERT		Certified Mill Test Report				
	Concrete	Strength GDT-35 & T22	DOT-319 T152	2 cylinders	See NOTE 1		Observe 1 set per 1500 yd ³	During pouring operation	Cylinders to be tested in Branch or Central Lab
		NOTE 1: One set per each 75 yd ³ of thereof placed daily.	or fraction the	reof placed da	ily, except for Concrete b	arrier placed with slip form	n equipment. Two cylinde	rs shall be fabricated for ea	ch 150 yd ³ or fraction
		Air GDT-26 or GDT-32							
		Slump GDT-27		See NOTE		Observe 1 set per 1500		During pouring operation	
				2		yd ³		During pouring operation	
		Mix Temperature GDT-122							

627							
MECHANICALLY	Reinforcing	Charpy ASTM E23					
STABILIZED EMBANKMENT	Strips	Dimensions					
RETAINING WALLS		Yield Strength ASTM A709					
		Tensile Strength ASTM A709					
			Misc. GACERT		Certified Mill Test Report		
		Elongation ASTM A709					
		Reduction of Area ASTM A709					
		Hardness ASTM A709					
		Chemical ASTM A709					
	Reinforcing	Size ASTM A185					
	Mesh	Diameter ASTM A185					
		Area ASTM A185					
		Tensile Strength T244					
		Yield Strength T244	Welded Wire Test		Pre-inspected by Central Lab Personnel &		
		Area Reduction T244	Report GACERT		serially numbered GDT tag attached		
		Bend Test ASTM A185			1		
		Weld Shear Strength ASTM A185					
		Width ASTM A185					

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	Length ASTM A185					
	Spacing ASTM A185					
Connecting Devices	As Specified	GACERT	Certified Mill Test Report		Independent Assurance: sample occasionally	
Fasteners	Chemical ASTM A325					
	Yield Strength ASTM A325					
	Tensile Strength ASTM A325	_				
	Elongation ASTM A325	_				
	Reduction of Area ASTM A325	Misc. GACERT				
	Hardness ASTM A325					
	Length					
	Diameter					
	Thread Class					
	Galvanization ASTM A153					
Attachments	Size ASTM A82					
	Diameter ASTM A82					
	Area ASTM A82					
	Tensile Strength T244	Reinforce-ment				
	Yield Strength T244	Test Report GACERT				
	Area Reduction T244					
	Bend Test ASTM A82					
	Galvanization ASTM A123					
Concrete	·		· ·		·	
	Compressive Strength GDT-35 & T22	Misc. T152				
Portland Ceme	nt Air Content T137					
	Fineness M85					
	Autoclave M85					
	Compressive Strength M85	DOT-175 Ga175	QPL-3			1
	Vicat 7131	1				1
	Chemical M85	1				1

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Fine Aggregate	Gradation T27						
	Sand Equivalent GDT-63	DOT-658 Ga658	20 lbs.	except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-1 Sources, 1 per month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
	Wash 200 T11						
Aggregate	Gradation 727	DOT-658 Ga658	35 lbs.	Sources; material from Section D must be sampled.	QPL-2 Sources, 1 per month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
	In Place Density GDT-24 GDT-59	DOT-553		One per wall per day.			
Joint Fillers	•		•				
Plastic Filter Fabric - Woven	Tensile Strength ASTM D4632						
		Misc. GACERT		QPL-28			
	Elongation ASTM D4632						
	Percent Open Area GDT-88]			
	Puncture Resistance ASTM D4833						
	Grab Tensile Strength ASTM D4632	Misc. GACERT		QPL-28			
	Grab Elongation ASTM 4632			1			

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TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE	LOCATION OF SAMPLI

1	r			r	r	
	Flowrate GDT-87					
Bearing Pads	Dimensions					
	Hardness ASTM D2240	Misc. GACERT				
	Physical & Chemical Analysis As Specified	DOT-658 Ga658	Approved by Central Lab Personnel			Prior to use
	Determination of Zinc Coating Thickness Gauge GDT-82				Occasionally*	
		GACERT				
	Epoxy Coated Systems					
Wall Panels				g Report (OMR-122) & ant Stamp		