

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
161									
WATER POLLUTION CONTROL (SOIL & EROSION)	Stream Water	Water Turbidity GDT-109	Ga152	As per GSP-20	After major rainfall or as requested by the Project Engineer				
163									
MISCELLANEOUS EROSION CONTROL	Lumber & Timber				Visual Inspection by Project Engineer				
	Concrete	Compression Strength GDT-35 & T22	DOT-319 T-152	2 cylinders	See NOTE 1		Observe 1 set per 750 yd ³	During pouring	Cylinders to be broken in Branch or Central Lab
		NOTE 1: One set per each 50 yd ³ of each Class of Concrete placed daily for each structure, except for Concrete used in Bridge Curb, Handrail or Wall Coping. Two Concrete cylinders shall be fabricated for each cumulative 50 yd ³ , or fraction thereof, of Concrete placed per week in each structure. Cylinders shall not be fabricated at one structure to represent Concrete placed in another structure.							
		Air Content GDT-26 or GDT-32	DOT-168 Ga168	See NOTE 2	When cylinders are made		Observe 1 per 750 yd ³	Placement site	*Additional Slump test will be required when Water is added on Project
		Slump GDT-27*							
		Mix Temperature GDT-122							
		NOTE 2: Air, Slump & Mix Temperature tests are all required when cylinders are made & as judged necessary to insure adequate controls. Additional tests are recommended at least every third load on Bridge Deck placement.							
	Bituminous Treated Roving	Weight Certification	DOT-168 Ga168		QPL-24				
	Bituminous Material	Viscosity T59		1 gal.	QPL-7			Before application	
	Erosion Control Mats								
	Straw	Width	DOT-168 Ga168		QPL-62				
		Weight							
		Thickness							
		Mesh Size							
		Stitch Pattern							
	Excelsior	Width	DOT-168 Ga168		QPL-62				
		Weight							
		Thickness							
		Mesh Size							
		Stitch Pattern							
	Coconut Fiber	Width	DOT-168 Ga168		QPL-62				

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		Weight							
		Thickness							
		Mesh Size							
		Stitch Pattern							
	Wood Fiber	Width							
		Weight	DOT-168 Ga168		QPL-62				
		Mesh Size							
	Jute Mesh	Width							
		Weight	DOT-168 Ga168		Contractor Certification & Visual Inspection				
		Thread Count							
	Silt Fence								
	Wood Post	Spacing							
		Length	DOT-168 Ga168			One section per Project			
		Area							
	Steel Post	Spacing							
		Shape	DOT-168 Ga168			One section per Project			
		Weight							
	Woven Wire	Height							
		Vertical & Horizontal Spacing	DOT-168 Ga168			One section per Project			
		Diameter							
		Number of Wires							
	Fasteners	Dimensions	DOT-168 Ga168			One per Project			
		Spacing							
	Silt Fence Fabric	Tensile Strength <i>ASTM D4632</i>							
		Elongation <i>ASTM D4632</i>							
		AOS <i>ASTM D4751</i>							
		Flowrate <i>GDT-87</i>	DOT-168 Ga168		QPL-36	One per Project			
		Bursting Strength <i>ASTM D3786</i>							
		Width							
		Condition of Fabric							
164									

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STRAW MULCH STABILIZATION	Mulch Material				Accepted by Project Personnel based on Visual Inspection				
171									
TEMPORARY SILT FENCE	Wood Post	Spacing	DOT-168 Ga168		Visual Inspection	One per Project			
		Length							
		Area							
	Steel Post	Spacing	DOT-168 Ga168		Visual Inspection	One per Project			
		Shape							
		Weight							
		Galvanization <i>ASTM A123</i>							
	Woven Wire	Height	DOT-168 Ga168		Visual Inspection	One per Project			
		Vertical & Horizontal Spacing							
		Diameter							
		Number of Wires							
	Fasteners	Dimensions	DOT-168 Ga168		Visual Inspection	One per Project			
		Spacing							
	Silt Fence Fabric	Tensile Strength <i>ASTM D4632</i>	DOT-168 Ga168		QPL-36	One per Project			
		Elongation <i>ASTM D4632</i>							
AOS <i>ASTM D4751</i>									
Flowrate <i>GDT-87</i>									
Bursting Strength <i>ASTM D3786</i>									
Width									
Condition of Fabric									
205									
ROADWAY EXCAVATION	Embankments (to within 1 ft of top)	Theoretical Density <i>GDT-7 or GDT-67</i>	DOT-408 Ga408 / DOT-97 Ga097	30 lbs.	One per major soil Type		One per Project	Roadway (before Compacting)	Volume Change tests may be omitted on acceptance samples, except the first sample & each fifth sample thereafter, which shall be
		Gradation <i>GDT-4</i>							
		Volume Change <i>GDT-6</i>							
		Classification <i>Section 810</i>							

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					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		In-Place Density GDT-20, GDT-21, GDT-55 & GDT-59	DOT-553 Ga553		One per 5,000 yd ³		One per 60,000 yd ³	Completed Lift	submitted to the Branch or Central Lab for testing, unless provisions are made for testing on the Project. Percent Moisture is part of Density test procedure.
	Rock	Gradation Visual	DOT-658 Ga658		QPL-2				Requires approval by Pit & Quarry if not from QPL-2 Source
		Abrasion T96							
		Soundness T104							
		Petrographic Analysis ASTM C295							
	Pond Sand	Gradation T27	DOT-408 Ga408 / DOT-97 Ga097						Requires approval by Pit & Quarry
		Volume Change GDT-6							
		Density GDT-7 or GDT-67							
206									
BORROW EXCAVATION	Soil	Gradation GDT-4	DOT-408 Ga408 / DOT-97 Ga097		Class II, B-3 or better				
		Percent Clay GDT-4							
		Volume Change GDT-6							
		Density GDT-7 or GDT-67							
		Classification Section 810							
207									
EXCAVATION & BACKFILL FOR MINOR STRUCTURES	Type I – Class I & II Soils	Gradation GDT-4	DOT-408 Ga408 / DOT-97 Ga097	30 lbs.		One per major soil Type		Before Compacting	Volume Change tests may be omitted on acceptance samples, except the first sample & each fifth sample thereafter, which shall be submitted to the Branch or Central Lab for testing, unless provisions are made for testing on the Project.
		Percent Clay GDT-4							
		Theoretical Density GDT-7 or GDT-67							
		Volume Change GDT-6							
		In-Place Density GDT-20, GDT-21, GDT-55 & GDT-59	DOT-553 Ga553			One per 500 yd ³ or 1 per 3 structures	One per Project	Completed Course	

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					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Type II – Backfill Aggregate	Gradation T27	DOT-658 Ga641 Ga658	45 lbs.	One per 500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	As required by Project Engineer				
	Type III – Soil/Organic				Notify Central Lab					
208										
EMBANKMENT	Embankments (to within 1 ft of top)	Theoretical Density GDT-7 or GDT-67	DOT-408 Ga408 / DOT-97 Ga097	30 lbs.	One per major soil Type		One per Project	Roadway (before Compacting)	Volume Change tests may be omitted on acceptance samples, except the first sample & each fifth sample thereafter, which shall be submitted to the Branch or Central Lab for testing, unless provisions are made for testing on the Project. Percent Moisture is part of Density test procedure.	
		Gradation GDT-4								
		Volume Change GDT-6								
		Classification Section 810								
	In-Place Density GDT-20, GDT-21, GDT-55 & GDT-59	DOT-553 Ga553		One per 5,000 yd ³		One per 60,000 yd ³	Completed Lift			
	Bridge Approach	In-Place Density GDT-20, GDT-21, GDT-55 & GDT-59	DOT 553	30 lbs.	1 per 10 ft of Fill at each Bridge End					
	Rock	Gradation Visual	DOT-658 Ga658		QPL-2					
		Abrasion T96								
		Soundness T104								
		Petrographic Analysis ASTM C295								
Pond Sand	Gradation T27	DOT-408 Ga408 / DOT-97 Ga097								
	Volume Change GDT-6									
	Density GDT-7 or GDT-67									
209										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	GUIDE FREQUENCY				LOCATION OR TIME OF SAMPLING	REMARKS		
				SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE				
SUBGRADE & SUBGRADE STABILIZATION	Subgrade (See NOTE)	Theoretical Density GDT-7 or GDT-67	Ga408 Ga495 Ga097 D2487	35 lbs.	One per 1,500 ft, per 2 lanes, per Lift		Occasionally for verification of Family of Curves	Roadway (before Compacting)	Remainder of the material, along with tests results, should be submitted to the Central Lab for soil supports & study		
		Gradation GDT-4									
		Volume Change GDT-6									
		Classification Section 810									
	NOTE: Sample required on County Projects only if selected materials used or if classification is required to determine that selected material is needed. Required on ALL State & Federal Projects.										
	Select Material	Theoretical Density GDT-7 or GDT-67	Ga408 Ga097	45 lbs.	One per 1,500 ft, per two lanes, per Lift			One per 3 miles, per 2 lanes	Completed Lift		
											Gradation GDT-4
											Volume Change GDT-6
											Classification Section 810
	Stabilizer Aggregate – Types I & III	Gradation T27	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.	As required by Project Engineer	One per 15,000 tons for Unapproved Source or 200,000 tons for Approved Source	Stockpile or Roadway			
In-Place Material	In-Place Density GDT-20, GDT- 21, GDT-55 & GDT-59	DOT-553 Ga553	45 lbs.	One per 1,500 ft, per 2 lanes		One per 3 miles, per 2 lanes	Completed Course				
Bridge Approach	In-Place Density GDT-20, GDT- 21, GDT-55 & GDT-59	DOT 553	45 lbs.	One per side/each side							
Type II – Aggregate	Gradation T27	DOT-658 Ga658	45 lbs.	One per 500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	As required by Project Engineer		Stockpile or Roadway				
	Sand Equivalent GDT-63										

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					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Soil	Gradation GDT-4	DOT-408 Ga408 / DOT-97 Ga097		Class II, B-3 or better				
		Percent Clay GDT-4							
		Volume Change GDT-6							
		Density GDT-7 or GDT-67							
	Classification Section 810								
Type IV – Sand	Gradation T27	DOT-658 Ga658		Notify Central Lab				Requires approval by Pit & Quarry	
Sand Equivalent GDT-63									
211									
EXCAVATION & BACKFILL FOR BRIDGE FOUNDATIONS	Type I – Class I & II Soils	Gradation GDT-4	DOT-408 Ga408 / DOT-97 Ga097	30 lbs.	One per 3 structures or 1 per Project		Before Compacting	Volume Change tests may be omitted on acceptance samples & each fifth sample thereafter shall be submitted to Branch or Central Lab for testing, unless provisions are made for testing on the Project.	
		Percent Clay GDT-4							
		Volume Change GDT-6							
		Density GDT-7 or GDT-67							
	Classification Section 810								
In-Place Density GDT-20, GDT-21, GDT-55 & GDT-59	DOT-553 Ga553		One per 10 ft of backfill depth, per end bent		One per Bridge	Completed Course			
Type II - Aggregate	Gradation T27	DOT-658 Ga658	45 lbs.	One per 500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	As required by Project Engineer	One per Project	Stockpile		
212									
GRANULAR EMBANKMENT	Soil	Gradation GDT-4	DOT-408 Ga408 / DOT-97 Ga097		One per major Soil Type, Class I, A-2				
		Percent Clay GDT-4							
		Volume Change GDT-6							
		Density GDT-7 or GDT-67							
	Classification Section 810								
In-Place Density GDT-20, GDT-21, GDT-55 & GDT-59	DOT-553 Ga553		One per 5,000 yd ³		One per 60,000 yd ³				

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216									
UNPAVED SHOULDERS	Select Material & Impervious Material	Theoretical Density GDT-7, GDT-24, GDT-48, GDT-49 & GDT-67	DOT-408 Ga408 / DOT-97 Ga097	30 lbs.	One per mile, per shoulder			In-Place Material (before Compacting)	Volume Change tests may be omitted on acceptance samples, except the first sample & each fifth sample thereafter, which shall be submitted to the Branch or Central Lab made for testing on the Project.
		Gradation GDT-4							
		Volume Change GDT-6							
		Classification Section 810							
		In-Place Density (Ungrassed) GDT-20, GDT-21 or GDT-59	DOT-553 Ga553		One per mile, per shoulder		One per Project	Completed Course	Ungrassed shoulders only
	Soil	Gradation GDT-4	DOT-408 Ga408 / DOT-97 Ga097	Class II, B-3 or better					
		Percent Clay GDT-4							
		Volume Change GDT-6							
		Density GDT-7 or GDT-67							
		Classification Section 810							
218									
BLANKET FOR FILL SLOPES	Plant Topsoil	Gradation T27	DOT-658 Ga658	30 lbs.	Approved by Office of Materials & Research	One sample per proposed Source			
		Organic Content	DOT-408 Ga408 / DOT-97 Ga097						
		Classification Section 810							
219									
CRUSHED AGGREGATE	Graded Aggregate	GDT-49	DOT-658 Ga658	45 lbs.	One per 1,500 tons based upon QPL-2,	QPL-2 Sources, 1 per 20,000 tons, except	QPL-2 Sources, 1 per 200,000 tons, except	Roadway	
		Gradation T27							

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SUBGRADE		Sand Equivalent GDT-63			except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	for Section D, Stockpile Basis Sources; Section D Sources, 1 per 15,000 tons			
	In-Place Material	Thickness Measurement GDT-42	DOT-176 Ga176		One per 1,500 ft, per 2 lanes		Observe 1 per 3 miles, per 2 lanes	Completed Course		
		In-Place Density GDT-21 or GDT-59	DOT-553 Ga553				One per 3 miles, per 2 lanes			
		Bituminous Prime			QPL-7	One per Project				
221										
SPECIAL SUBGRADE COMPACTION & TEST ROLLING	Subgrade & Subgrade Stabilization									
	Subgrade (See NOTE)	Theoretical Density GDT-7 or GDT-67	DOT-408 Ga408 / DOT-97 Ga097	35 lbs.	One per 1,500 ft, per 2 lanes, per Lift		Occasionally for verification of Family of Curves	Roadway (before Compacting)	Remainder of the material, along with tests results, should be submitted to the Central Lab for soil supports & study	
		Gradation GDT-4								
		Volume Change GDT-6								
		Classification Section 810								
	NOTE: Sample required on County Projects only if selected materials used or if classification is required to determine that selected material is needed. Required on ALL State & Federal Projects.									
	Select Material	Theoretical Density GDT-7 or GDT-67	DOT-408 Ga408 / DOT-97 Ga097	45 lbs.	One per 1,500 ft, per two lanes, per Lift			One per 3 miles, per 2 lanes	Completed Lift	
Gradation GDT-4										
Volume Change GDT-6										
Classification Section 810										

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					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Stabilizer Aggregate – Types I & III	Gradation T27	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.	As required by Project Engineer		Stockpile or Roadway	
	In-Place Material	In-Place Density GDT-20, GDT-21, GDT-55 & GDT-59	DOT-553 Ga553	45 lbs.	One per 1,500 ft, per 2 lanes		One per 3 miles, per 2 lanes	Completed Course	
	Type II – Aggregate	Gradation T27 Sand Equivalent GDT-63	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.	As required by Project Engineer		Stockpile or Roadway	
	Soil	Gradation GDT-4	DOT-408 Ga408 / DOT-97 Ga097		Class II, B-3 or better				
Percent Clay GDT-4									
Volume Change GDT-6 Density GDT-7 or GDT-67									
Classification Section 810									
Type IV – Sand	Gradation T27 Sand Equivalent GDT-63	DOT-658 Ga658		Notify Central Lab				Requires approval by Pit & Quarry	
222									
AGGREGATE DRAINAGE COURSES	All Types of Aggregate for Drainage	Gradation T27	DOT-658 Ga658	45 lbs.	One per 1,000 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-2 Sources, 1 per 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Source.	QPL-2 Sources, 1 per 200,000 tons, except for Section D, Stockpile Basis Sources; Section D Sources, 1 per 15,000 tons	Roadway	

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		Thickness Measurement GDT-42	DOT-176 Ga176		One per 1,500 ft, per 2 lanes		One per 3 miles, per 2 lanes	Completed Course	When required
225									
SOIL LIME CONSTRUCTION	Soil	Gradation GDT-4	DOT-408 Ga408 / DOT-97 Ga097	30 lbs.	Plant Mix Base: 1 per 1,000 yd ³ Road Mix Base: 1 per 2,000 ft Non-Base: 1 per Soil Type			Before Lime is added	
		Percent Clay GDT-4							
		Volume Change GDT-6							
		Density GDT-7 or GDT-67							
	CBR T193								
	Hydrated Lime	Physical & Chemical Analysis M216-84	Misc. Ga168	1 qt.*	QPL-41	One per 2,000 tons, per Source		Stock	*air-tight container
	Water	Physical & Chemical Analysis T26	DOT-WATE Ga088	1 qt.*	One per unpotable Source			Enough in advance so that results are known before use	*non-metal container
In-Place Material	Theoretical Density GDT-19 (Lime in lieu of Cement)	DOT-553 Ga553	30 lbs.	One per Soil Type or 1 per compaction*			In-Place Material (before Compacting)	*Check if GDT-67 is used	
	In-Place Density GDT-20, GDT-21 or GDT-59					One per 3 miles, per 2 lanes			
	Thickness Measurement GDT-42			DOT-176 Ga176		One per 1,500 ft, per 2 lanes, per Lift		Observe 1 per 3 miles, per 2 lanes	Completed Course
301									
SOIL CEMENT CONSTRUCTION	Soil Cement Design	Gradation GDT-4	DOT-409 Ga409	30 lbs.	Plant Mix: 1 per 1,500 yd ³ or tons Road Mix: 2 per mile			Before Cement is added	Job Mix Formula is provided in the Proposal or in a letter
		Theoretical Density GDT-19 or GDT-67			As necessary to insure adequate control				
		Percent Clay GDT-4							
		Volume Change GDT-6							
		Density GDT-7 or GDT-67							
		pH							
	Compressive Strength								
Portland Cement		DOT-175 Ga175	1 gal.	QPL-3					

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	Water	Physical & Chemical Analysis T26	DOT-WATE Ga088	1 qt.*	One per unpotable Source			Enough in advance so that the results are known before use	*non-metal container
	In-Place Material	Thickness Measurement GDT-42	DOT-176 Ga176		One per 1,500 ft, per 2 lanes		Observe 1 per 3 miles, per 2 lanes	Completed Course	
		Compressive Strength of Cores GDT-86	DOT-308 Ga308	6" core	One per mile or 1 per day		Observe 1 per 5 miles		
		In-Place Density GDT-20, GDT-21 or GDT-59	DOT-553 Ga553		One per 1,500 ft, per 2 lanes		Observe 1 per 3 miles, per 2 lanes		
		Bituminous Prime			QPL-7	One per Project			
	Plant Control	Mix Moisture			Every 400 tons or 1 per hour				
		Percent Cement Check				Minimum 1 per day			
302									
SAND BITUMINOUS STABILIZED BASE COURSE	Sand	Gradation GDT-4	DOT-658 Ga658	30 lbs.	One per Type, per Project			Stockpile or Roadway (before mixing)	
		Percent Clay GDT-4	DOT-408 Ga408 / DOT-97 Ga097						
		Theoretical Density GDT-7 or GDT-67			Established by Job Mix Formula			Before Bituminous Material is added	
		Classification Section 810							
	PG 64-22	Dynamic Shear TP-5	DOT-504M Ga504M	1 qt.	QPL-7	One per Project		Before mixing	
	RC-800		DOT-503 Ga503M	1 qt.	QPL-7	One per Project			
	Emulsified SS-1h	Viscosity T59	DOT-325 Ga325	1 gal.*	QPL-7	One per Project		Before mixing	*non-metal container
	Cationic Asphalt Emulsion	Viscosity, Particle Charge T59	DOT-325 Ga325	1 gal.*	QPL-7	One per Project		Before mixing	*non-metal container
	In-Place Material	Thickness Measurement T191	DOT-176 Ga176			One per 1,500 ft, per 2 lanes		One per 3 miles, per 2 lanes	Completed Course
Density GDT-21 or GDT-59		DOT-553 Ga553							
303									

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TOPSOIL OR SAND CLAY CONSTRUCTION	Topsoil or Sand Clay	Gradation GDT-4	DOT-408 Ga408 / DOT-97 Ga097	30 lbs.	One per 1,500 ft, per 2 lanes, per layer		Completed Course	Atterburg Limits, Density & Volume Change may be determined by use of GDT-112 on acceptance samples, except the first sample & each fifth sample thereafter.	
		Percent Clay GDT-4							
		Liquid Limit T89							
		Plastic Limit T90							
		Plastic Index T91							
		Volume Change GDT-6							
	Density GDT-7 or GDT-67								
	Stabilizer Aggregate - Types I & III	Gradation T27	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.	As required by Project Engineer		Stockpile or Roadway	
	Stabilizer Aggregate - Type II	Gradation T27 Sand Equivalent GDT-63	DOT-658 Ga658	45 lbs.	One per 500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	As required by Project Engineer			
	In-Place Material	Thickness Measurement GDT-42	DOT-176 Ga176		One per 1,500 ft, per 2 lanes		One per 3 miles, per 2 lanes	Completed Course	
In-Place Density GDT-20, GDT-21 or GDT-59		DOT-553 Ga553							
Bituminous Prime				QPL-7					
304									
IMPERVIOUS AGGREGATE CONSTRUCTION	Soil Aggregate	Gradation GDT-4 & GDT-13	DOT-658 Ga658	45 lbs.	One per 1,500 tons		One per 3 miles, per 2 lanes	In-Place (prior to Compaction)	Verification of acceptable designation must be made through the Office of Materials & Research
		Volume Change GDT-6							
		Liquid Limit T89							
		Plastic Limit T90							
		Plastic Index T90							

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		Soil Aggregate Cement Design			Issued by Central Lab					
	In-Place Compacted Course	Thickness Measurement GDT-42	DOT-176 Ga176		One per 1,500 ft, per 2 lanes, per Lift		One per 3 miles, per 2 lanes	Completed Course		
		In-Place Density GDT-21 or GDT-59	DOT-553 Ga553							
305										
CEMENT STABILIZED SOIL AGGREGATE CONSTRUCTION	Soil	Gradation GDT-4					One per 3 miles, per 2 lanes			
		Volume Change GDT-6	DOT-408 Ga408 /							
		Density GDT-7	DOT-97 Ga097							
	Aggregate	Gradation T27	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, per 20,000 tons, except for Section D, Stockpile Basis, Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	QPL-2 Sources, 1 per 200,000 tons, except for Section D, Stockpile Basis, Sources; Section D Sources, 1 per 15,000 tons			
		Sand Equivalent GDT-63								
		Soil Aggregate-Cement Design			Issued by Central Lab					
	Portland Cement	Physical & Chemical Analysis M85	DOT-658 Ga658	20 lbs.	QPL-3	One per Quarter		Stock		
		Fineness ASTM C204								
		325 Sieve ASTM C430								
	Cores	Compressive Strength GDT-86	Ga386	6" cores	One per mile, per 2 lanes			Completed Course	Submit to Central or Branch Lab	
Water	Physical & Chemical Analysis T26	Ga088	1 qt.*	One per unpotable Source			Enough in advance so that results that are known before use	*non-metal container		
Plant Control	Mix Moisture			One per hour						
	Percent Cement Check			One per day or as necessary to control plant						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	In-Place Compacted Course		DOT-553 Ga553		One per 1500 ft, per 2 lanes, per Lift		One per 3 miles, per 2 lanes		
310									
GRADED AGGREGATE CONSTRUCTION	Graded Aggregate – Group 1 or 2	Gradation T27	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 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	QPL-2 Sources, 1 per 200,000 tons, except for Section D, Stockpile Basis Sources; Section D Sources, 1 per 15,000 tons	Roadway	
		Sand Equivalent GDT-63							
		Theoretical Density GDT-49		Established before beginning construction*					*GDT-45
	Unconsolidated Limerock Base	Gradation T27	DOT-658 Ga658	200 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 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	QPL-2 Sources, 1 per 200,000 tons, except for Section D, Stockpile Basis Sources; Section D Sources, 1 per 15,000 tons	Roadway	
		Theoretical Density GDT-49							
		Limerock Bearing Ratio Florida DOT Method & FM 5-515							
		Total Carbonates (Insoluble Residue) ASTM D3042							Every 4th sample shall be sent to Central Lab to be tested for GDT-49, FM 5-515 and ASTM D 3042. All other samples are to be subjected to AASHTO T27 only
	In-Place Material	Thickness Measurement GDT-42	DOT-176 Ga176						
In-Place Density GDT-21 or GDT-59		DOT-553 Ga553		One per 1,500 ft, per 2 lanes		One per 3 miles, per 2 lanes	Completed Course		
Bridge Approach	In-Place Density GDT-21 or GDT-59	DOT 553	45 lbs.	1 per side of Bridge each lift					
Bituminous Prime	Viscosity		1 qt.	QPL-7					
316									
CEMENT	Aggregate	Gradation T27	DOT-658 Ga658	45 lbs.	One per 1,500 tons	QPL-2 Sources, 1 per	QPL-2 Sources, 1 per	Belt (before Cement is	

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
STABILIZED GRADED AGGREGATE		Sand Equivalent GDT-63 Percent Wear T96			based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance test on materials delivered from Section D Sources.	200,000 tons, except for Section D, Stockpile Basis Sources; Section D Sources, 1 per 15,000 tons	added)		
	Portland Cement	Physical & Chemical Analysis M85	GACERT	20 lbs.	QPL-3	One per 10,000 barrels, per Source		Stock		
	Water	Physical & Chemical Analysis T26	Ga088	1 qt.*	One per unpotable Source			Enough to advance so results are known before use	*non-metal container	
	In-Place Material	Thickness Measurement GDT-42	DOT-176 Ga176						Completed Course	
		In-Place Density GDT-21 or GDT-59	DOT-553 Ga553			One per 1,500 ft, per 2 lanes		One per 3 miles, per 2 lanes		
		Compressive Strength GDT-86			6" core	One per mile, per 2 lanes				
	Bituminous Prime		GACERT	1 qt.	QPL-7					
	Plant Control	Mix Moisture								
Percent Cement Check					Minimum 2 per day					
317										
RECONSTRUCTED BASE / SUBBASE	In-Place Material	As Specified	DOT-408 Ga408 / DOT-97 Ga097		See Plans or Proposal for Type of Material Test Procedures shall conform to the requirements for the Material specified. Section 301, Soil Cement Construction Section 302, Sand Bituminous Stabilized Base Coarse Section 303, Topsoil or Sand Clay Construction Section 310, Graded Aggregate Construction					
318										
SELECTED MATERIAL	Topsoil, Sand, Clay or Chert	Gradation GDT-4 Percent Clay GDT-4	DOT-408 Ga408 / DOT-97 Ga097	30 lbs.	One per 1,500 ft			After mixing but before Compaction		

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
SURFACE COURSE		Liquid Limit T89								
		Plastic Limit T90								
		Plastic Index T91								
		Volume Change GDT-6								
		Density GDT-7 or GDT-67								
	Graded Aggregate									
	Aggregate		Gradation T27	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 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	QPL-2 Sources, 1 per 200,000 tons, except for Section D, Stockpile Basis Sources; Section D Sources, 1 per 15,000 tons	Roadway	
			Sand Equivalent GDT-63							
			Theoretical Density GDT-49			Established before beginning construction*				*GDT-45
	In-Place Material		Thickness Measurement GDT-42	DOT-176 Ga176		One per 1,500 ft, per 2 lanes		One per 3 miles, per 2 lanes	Completed Course	
			In-Place Density GDT-21 or GDT-59	DOT-553 Ga553						
	Bituminous Prime		Viscosity		1 qt.	QPL-7				
	Coarse Aggregate									
	Stabilizer Aggregate - Types I & III		Gradation T27	DOT-658 Ga658	45 lbs.	One per 1,500 based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	As required by Project Engineer	One per 1,500 tons for Unapproved Source; 200,000 for Approved Source	Stockpile or Roadway (prior to spreading)	
	Stabilizer		Gradation T27	DOT-658 Ga658	45 lbs.	One per 500 tons	As required by Project	One per 1,500 tons for	Stockpile or Roadway	

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Aggregate - Type II	Sand Equivalent GDT-63			based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	Engineer	Unapproved Source; 200,000 for Approved Source	(prior to spreading)	
	In-Place Material	Thickness Measurement GDT-42	Ga176		One per 2 miles			Completed Course	*When required
319									
LIME-FLY ASH SOIL CONSTRUCTION	In-Place Material	Theoretical Density GDT-19	Ga553	20 lbs.	Established before beginning construction			Before Lime Fly Ash is added	
		In-Place Density GDT-20			One per 1,500 ft, per 2 lanes		One per 3 miles, per 2 lanes		
		Thickness Measurement GDT-42	DOT-176 Ga176					Completed Course	
	Fly Ash		DOT-175 GACERT	10 lbs.	QPL-30				
325									
STABILIZED BASE MATERIAL FOR PATCHING	Soil Cement Material - Category A	Gradation GDT-4		25 lbs.	One per 1,500 tons			Before Cement is added	
	Graded Aggregate	Gradation T27		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 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Source.	QPL-2 Sources, 1 per 200,000 tons, except for Section D, Stockpile Basis Sources; Section D Sources, 1 per 15,000 tons	Belt (before Cement is added)	
		Volume Change GDT-6							
		Sand Equivalent GDT-63							
	Portland Cement	Physical & Chemical Analysis M85		10 lbs.	QPL-3	One per 2,000 tons		Stock	
Bituminous Prime	Viscosity T201 (Cutback Asphalt)	DOT-325 Ga325		QPL-7					

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Viscosity T72 (Cutback Asphalt Emulsion)							
	In-Place Material	In-Place Density GDT-20, GDT-21 or GDT-59			As necessary for adequate control			Completed Course	
	Soil Cement Design	Gradation GDT-4	DOT-409 Ga409		Plant Mix: 1 per 1,500 yd ³ or tons Road Mix: 2 per mile				
Percent Clay GDT-4									
Volume Change GDT-6									
Density GDT-7 or GDT-67									
pH									
Compressive Strength									
	Stabilizer Aggregate – Types I & III	Gradation T27	DOT-658 Ga658		One per 1,500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	As required by Project Engineer			
	Stabilizer Aggregate – Type II	Gradation T27 Sand Equivalent GDT-63	DOT-658 Ga658		One per 1,500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	As required by Project Engineer			
	Soil	Gradation GDT-4	DOT-408 Ga408 / DOT-97 Ga097						
Percent Clay GDT-4									
Volume Change GDT-6									
Density GDT-7 or GDT-67									
		Classification Section 810							
	Type IV - Sand	Gradation T27	DOT-658 Ga658						
		Sand Equivalent GDT-63							
326									
PORTLAND	Concrete	Air Content GDT-26	T152		One per 2,000 yd ³ ,		One per 20,000 yd ³	During pouring operation	

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
				SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE			INDEPENDENT ASSURANCE
CEMENT CONCRETE SUB-BASE		Slump GDT-27			per day		Observe 1 per 2,000 yd ³		
		Thickness Field Control			One per 250 ft, per 2 lanes		Observe 1 per 20 days operation		
		Compressive Strength GDT-35	DOT-319	6" X 12" cylinder		Two sets per week of operation	Observe 2 sets per 20 days operation		
	Graded Aggregate	Gradation T27	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 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	QPL-2 Sources, 1 per 200,000 tons, except for Section D, Stockpile Basis Sources; Section D Sources, 1 per 15,000 tons	Stockpile	
		Sand Equivalent GDT-63							
	Coarse Aggregate	Gradation T27	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 10,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	QPL-2 Sources, 1 per 100,00 tons, except for Section D, Stockpile Basis Sources; Section D Sources, 1 per 10,000 tons	Belt or Stockpile	
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 1,500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-1 Sources, 1 per 10,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	QPL-1 Sources, 1 per 200,000 tons, except for Section D, Stockpile Basis Sources; Section D Sources, 1per 10,000 tons	Belt or Stockpile	
		Sand Equivalent GDT-63							
	Fly Ash	Fineness M295	DOT-175 Ga175	10 lbs.	One per 400 tons				
		Activity M295							
Soundness M295									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Density M295							
		Chemical M295							
	Portland Cement	Air Content M85							
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85	DOT-175 Ga175	10 lbs.	QPL-3	One per 2,000 tons			
		Vicat T131							
		Chemical M85							
400									
HOT MIX ASPHALTIC CONCRETE	Asphalt Cement	Dynamic Shear TP-5	DOT-504 Ga504	1 qt.	QPL-7	As per GSP-21		Storage Tank	
	Coarse Aggregate for Asphaltic Concrete	Wash 200 T11							
		Gradation T27	DOT-658 Ga658	45 lbs.	QPL-2	As necessary		Stockpile	
	Fine Aggregate for Asphaltic Concrete	Gradation T11 & T27							
		Clay Lumps T1121							
		Sand Equivalent GDT-63	DOT-658 Ga658	20 lbs.	QPL-1	As necessary		Stockpile	
		Mica Content							
	Mineral Filler	Gradation T11 & T27	DOT-168 Ga168	10 lbs.	QPL-81	One per 500 tons, per Type, per Source	One per Project	Silo	
	In-Place Material	Thickness Measurement GDT-42	DOT-176 Ga176		One per 1,000 ft, per 2 lanes	Observe 1 per 3 miles, per 2 lanes		Completed Course	
	Hydrated Lime	Physical & Chemical Analysis M216-84							
		Gradation T219		1 qt.*	QPL-41	One per Quarter		Silo or Tanker	*air-tight container
		Chemical T219							As required by SOP-17
	Release Agent	Slide & Soak Test GDT-113		1 qt.	QPL-39	One per Quarter		Nozzle of Delivery System	
	Complete Mixture	Extractions T11, GDT-38, GDT-73, GDT-83 or GDT-125	DOT-387 Ga387 Ga159-5	Varies per Mix Type	Minimum 1 per 500 tons	Two QA samples per 5 days production or 5 lots; 1 comparison sample per 10 days	One per 10 days of production or 8,000 tons	Truck or Roadway	AASHTO T308 (Method A)

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Stripping Test GDT-56		300 g	One per Extraction (Open-Graded Mixes only)			Same as Extraction	For all Asphaltic Concrete "OGFC" & other Mixes where the additive is incorporated at the plant, test at frequency of 1 per Extraction
		Compaction GDT-39, GDT-59 or GDT-73	DOT-386 Ga386 Ga386T	Core	Five per Lot*		One per 10 lots, per Mix, consisting of 5 individual comparison tests	After Compaction	Small quantities may be accepted with less Compaction tests *Each test consists of 3 readings when Nuclear Gauge is used to determine Density
		Smoothness	Ga656						
402									
HOT MIX RECYCLED ASPHALTIC CONCRETE	Asphalt Cement	Dynamic Shear TP-5	DOT-504 Ga504	1 qt.	QPL-7	As per GSP-21		Storage Tank	
	Coarse Aggregate for Asphaltic Concrete	Wash 200 T11	DOT-658 Ga658	45 lbs.	QPL-2	As necessary		Stockpile	
		Gradation T27							
	Fine Aggregate for Asphaltic Concrete	Gradation T11 & T27	DOT-658 Ga658	20 lbs.	QPL-1	As necessary		Stockpile	
		Clay Lumps T1121							
		Sand Equivalent GDT-63							
		Mica Content							
Mineral Filler	Gradation T11 & T27	DOT-168 Ga168	10 lbs.	QPL-81	One per 500 tons, per Type, per Source	One per Project	Silo		
In-Place Material	Thickness Measurement GDT-42	DOT-176 Ga176		One per 1,000 ft, per 2 lanes	Observe 1 per 3 miles, per 2 lanes		Completed Course		
Hydrated Lime	Physical & Chemical Analysis M216-84		1 qt.*	QPL-41	One per Quarter		Silo or Tanker	*air-tight container As required by SOP-17	
	Gradation T219								
	Chemical T219								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Release Agent	Slide & Soak Test GDT-113		1 qt.	QPL-39	One per Quarter		Nozzle of Delivery System	
	Complete Recycled Mixture	Extractions T11, GDT-38, GDT-73, GDT-83 or GDT-125	DOT-387 Ga387 Ga159-5	Varies per Mix Type	Minimum 1 per 500 tons	Two QA samples per 5 days production or 5 lots; 1 comparison sample per 10 days	One per 10 days of production or 8,000 tons	Truck or Roadway	AASHTO T308 (Method A)
		Abson Recovery GDT-119			One at beginning of Project				
		Compaction GDT-39, GDT-59 or GDT-73	DOT-386 Ga386 Ga386T	Core	Five per lot*		One per 10 lbs., per Mix, consisting of 5 individual comparison tests	After Compaction	Small quantities may be accepted with less Compaction tests *Each test consists of 3 readings when Nuclear Gauge is used to determine Density
403									
HOT IN-PLACE RECYCLED ASPHALTIC CONCRETE	Asphalt Cement Rejuvenation Agent	ASTM D4552			Supplier Certification				
	Asphalt Cement	Dynamic Shear TP-5	DOT-504 Ga504	1 qt.	QPL-7	One per 75,000 gal., per Source		Before mixing	
	Hot Mix Asphaltic Concrete								
	Asphalt Cement	Dynamic Shear TP-5	DOT-504 Ga504	1 qt.	QPL-7	As per GSP-21		Storage Tank	
	Coarse Aggregate for Asphaltic Concrete	Wash 200 T11	DOT-658 Ga658	45 lbs.	QPL-2	As necessary		Stockpile	
		Gradation T27							
	Fine Aggregate for Asphaltic Concrete	Gradation T11 & T27	DOT-658 Ga658	20 lbs.	QPL-1	As necessary		Stockpile	
Clay Lumps T1121									
Sand Equivalent GDT-63									
	Mica Content								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Mineral Filler	Gradation T11 & T27	DOT-168 Ga168	10 lbs.	QPL-81	One per 500 tons, per Type, per Source	One per Project	Silo	
	In-Place Material	Thickness Measurement GDT-42	DOT-176 Ga176			One per 1,000 ft, per 2 lanes		Observe 1 per 3 miles, per 2 lanes	Completed Course
	Hydrated Lime	Physical & Chemical Analysis M216-84		1 qt.*	QPL-41	One per Quarter		Silo or Tanker	*air-tight container
		Gradation T219							As required by SOP-17
		Chemical T219							
	Complete Mixture	Extractions T11, GDT-38, GDT-73, GDT-83 or GDT-125	DOT-387 Ga387 Ga159-5	Varies per Mix Type	Minimum 1 per 500 tons	Two QA samples per 5 days production or 5 lots; 1 comparison sample per 10 days	One per 10 days of production or 8,000 tons	Truck or Roadway	AASHTO T308 (Method A)
		Stripping Test GDT-56		300 g	One per Extraction (Open-Graded Mixes only)			Same as Extraction	For all Asphaltic Concrete "OGFC" & other Mixes where the additive is incorporated at the plant, test at frequency of 1 per Extraction
		Compaction GDT-39, GDT-59 or GDT-73	DOT-386 Ga386 Ga553	Core	Five per Lot*		One per 10 lots, per Mix, consisting of 5 individual comparison tests	After Compaction	Small quantities may be accepted with less Compaction tests *Each test consists of 3 readings when Nuclear Gauge is used to determine Density
Hot Mix Recycled Asphaltic Concrete									
	Asphalt Cement	Dynamic Shear TP-5	DOT-504 Ga504	1 qt.	QPL-7	As per GSP-21		Storage Tank	
	Coarse Aggregate for Asphaltic Concrete	Wash 200 T11		45 lbs.	QPL-2	As necessary		Stockpile	
		Gradation T27	DOT-658 Ga658						
	Fine Aggregate	Gradation T11 & T27	DOT-658 Ga658	20 lbs.	QPL-1	As necessary		Stockpile	

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	for Asphaltic Concrete	Clay Lumps T1121							
		Sand Equivalent GDT-63							
		Mica Content							
	Mineral Filler	Gradation T11 & T27	DOT-168 Ga168	10 lbs.	QPL-81	One per 500 tons, per Type, per Source	One per Project	Silo	
	In-Place Material	Thickness Measurement GDT-42	DOT-176 Ga176		One per 1,000 ft, per 2 lanes	Observe 1 per 3 miles, per 2 lanes		Completed Course	
	Hydrated Lime	Physical & Chemical Analysis M216-84		1 qt.*	QPL-41	One per Quarter		Silo or Tanker	*air-tight container As required by SOP-17
		Gradation T219							
		Chemical T219							
	Complete Recycled Mixture	Extractions T11, GDT-38, GDT-73, GDT-83 or GDT-125	DOT-387 Ga387 Ga159-5	Varies per Mix Type	Minimum 1 per 500 tons	Two QA samples per 5 days production or 5 lots; 1 comparison sample per 10 days	One per 10 days of production or 8,000 tons	Truck or Roadway	AASHTO T308 (Method A)
		Abson Recovery GDT-119			One at beginning of Project				
		Compaction GDT-39, GDT-59 or GDT-73	DOT-382 Ga382	Core	Five per lot*		One per 10 lbs., per Mix, consisting of 5 individual comparison tests	After Compaction	Small quantities may be accepted with less Compaction tests *Each test consists of 3 readings when Nuclear Gauge is used to determine Density
	Virgin Aggregate	Gradation T27	DOT-658 Ga658	35 lbs.	QPL-1 or QPL-2	As Needed	Not Required		
		Wash 200 T11							
	Hot In-Place Recycled Mix	Density, Stability & Flow T245	DOT-658 Ga658					One per day	
		Maximum Theoretical Gravity T209							
Extractions GDT-38 & GDT-83									
Abson Recovery GDT-119									
Penetration T49									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Percent Voids T269							
405									
HOT ASPHALTIC VULCANIZED RUBBER SEAL	Asphalt Cement	Dynamic Shear TP-5	DOT-504M Ga504M	1 qt.	QPL-7	One per 5 days of production		Distributor (before application)	
	Vulcanized Rubber				Certified Mill Test Report				
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	45 lbs.	QPL-2		As Needed	Stockpile	
Gradation T27									
412									
BITUMINOUS PRIME	Cutback Asphalt	Viscosity T201	DOT-503 Ga503	1 qt.	QPL-7			Before application	
	Cutback Asphalt Emulsion	Viscosity T72	DOT-503 Ga503	1 qt.	QPL-7 & Visual Inspection			Before application	
	Emulsified Asphalt	Viscosity T59	DOT-325M Ga325M	1 qt.	QPL-7	One per 5 day of placement		Distributor (before application)	
413									
BITUMINOUS TACK COAT	Asphalt Cement	Dynamic Shear TP-5	DOT-504M Ga504M	1 qt.	QPL-7	One per 5 days of placement		Distributor (before application)	
	Emulsified Asphalt	Viscosity T59	DOT-325M Ga325M	1 qt.	QPL-7	One per 5 days of placement		Distributor (before application)	
414									
HOT ASPHALT RUBBER SEAL FOR STRESS RELIEF	Asphalt Cement				QPL-7 & Visual Inspection				
	Ground Tire Rubber		DOT-658 Ga658		Certified Mill Test Report				
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	45 lbs.	QPL-2	As necessary		Stockpile	
Gradation T27									
424									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
BITUMINOUS SURFACE TREATMENT	Asphalt Cement	Dynamic Shear TP-5	DOT-504M Ga504M	1 qt.	QPL-7	One per 75,000 gal., per Source		Storage Tank	
	Emulsified Asphalt	Viscosity T59	DOT-325M Ga325M	1 gal.	QPL-7	One per 75,000 gal., per Source		Storage Tank	
	Coarse Aggregate	Gradation T27	DOT-658 Ga658	45 lbs.	QPL-2, Sections A, B & C	One per size, per Project	One per size, per Project	Stockpile	
		Minus No.200 Material T11			One per 500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.				
425									
PENETRATION MACADAM	Asphalt Cement	Dynamic Shear TP-5	DOT-504M Ga504M	1 qt.	QPL-7	One per 75,000 gal., per Source		Before application	
	Coarse Aggregate	Gradation T27	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.	One per 20,000 yd ³ or tons	One per Project	Stockpile	
	Fine Aggregate	Gradation T27	Ga658	20 lbs.	One per 500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	One per 2,500 yd ³ or tons	One per Project	Stockpile	
426									
SPRINKLE OVERLAY	Asphalt Cement	Dynamic Shear TP-5	DOT-504 Ga504	1 qt.	QPL-7	One per 75,000 gal., per Source			

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
TREATMENT OF HOT MIX ASPHALTIC CONCRETE	Coarse Aggregate for Asphaltic Concrete	Gradation T27	DOT-658 Ga658	45 lbs.	QPL-2	One per 500 yd ³ or tons	One per Project	Stockpile		
		Wash 200 T11								
	Fine Aggregate for Asphaltic Concrete	Gradation T11 & T27	DOT-658 Ga658	20 lbs.	QPL-1	As necessary		Stockpile		
		Clay Lumps T1121								
		Sand Equivalent GDT-63								
		Mica Content								
	Mineral Filler	Gradation T11 & T27	DOT-168 Ga168	10 lbs.	QPL-81	One per 500 tons, per Type, per Source		Stockpile		
Hot Bin Aggregate Samples	Gradation T27	Ga658	20 lbs.	As necessary			Bins			
In-Place Material	Thickness Measurement GDT-42	DOT-176 Ga176		One per 1,000 ft, per 2 lanes		Observe 1 per 3 miles, per 2 lanes	Completed Course			
Hydrated Lime	Physical & Chemical Analysis M216-84		1 qt.*	QPL-41	One per 2,000 tons during periods of production - GDOT use		Silo or Tanker	*air-tight container		
	Gradation T219									
	Chemical T219									
427										
EMULSIFIED ASPHALT SLURRY SEAL	Emulsified Asphalt	Viscosity T59	DOT-503 Ga503	1 gal.*	QPL-7	One per Project		Storage Tank	*non-metal container	
	Hydrated Lime	Physical & Chemical Analysis M216		1 qt.*	QPL-41	One per Project			*air-tight container	
		Gradation T219								
		Chemical T219								
	Portland Cement	Physical & Chemical Analysis M85	DOT-175 Ga175	20 lbs.	QPL-3	One per Project				
		Air Content M85								
		Fineness M85								
Autoclave M85										
Compressive Strength M85										
Vicat T131										
Chemical M85										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS					
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE							
	Fine Aggregate	Gradation T27 Wash 200 T11	DOT-658 Ga658	20 lbs.	One per 1,500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-1 Sources, 1 per 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D.	QPL-1 Sources, 1 per 200,000 tons except for Section D, Stockpile Basis Sources; Section D Sources, 1 per 15,000 tons	Stockpile						
	Water	Physical & Chemical Analysis T26							Ga088	1 qt.*	One per unpotable Source		Enough in advance so results are known before use	*non-metal container
	In-Place Material	Extraction GDT-38, GDT-83 or GDT-125								1 gal.	One per week, per truck		One per Project	From Distributor
428														
MICRO-SURFACING	Emulsified Asphalt	Viscosity T59	Ga325	1 gal.*	QPL-7	One per Project		Before mixing	*non-metal container					
	Diluted Emulsion Tack	Residue by Evaporation T59	Ga325	1 gal.*	One per 5 days of production			Distributor	*non-metal container					
	Hydrated Lime	Physical & Chemical Analysis M216	Ga325	1 qt.*	QPL-41	One per Project			*air-tight container					
	Portland Cement	Physical & Chemical Analysis M85		20 lbs.	QPL-3	One per Project								
	Aggregate	Moisture Content GDT-40			2000 g		One per 5 days of production		Stockpile					
		Gradation T27		DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-2 Sources, as needed, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	As Needed	Stockpile					
		Minimum No. 200 T11												
Sand Equivalent T176														
In-Place Material	Extraction GDT-132			Minimum:		Two per 1 day of	One per Project	Paver						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Gradation GDT-3		2000 g		production				
430										
PORTLAND CEMENT CONCRETE PAVEMENT	Concrete	Compressive Strength GDT-35 & T22	DOT-319 T152	6" X 12" cylinders	Three sets of 4 cylinders per lot		Observe 1 set per 10 lots <u>or</u> per 2 weeks production	During pouring operation at Roadway	Minimum of 3 per day by Contractor	
		Air Content GDT-26			When cylinders are made & as necessary for control		Three per 20 days of operation			
		Slump GDT-27					Observe 3 per 20 days of operation			
		Thickness GDT-31		Ga176	4" core	As per Section 430.06 of the Specifications				Observe 1 per 3 miles
	Portland Cement	Air Content T137	DOT-175 Ga175	10 lbs.	QPL-3	One per 2,000 tons, per Source			Jobsite storage	
		Fineness M85								
		Autoclave M85								
		Compressive Strength M85								
		Vicat T131								
	Portland Pozzolan Cement	Air Content T137	DOT-175 Ga175							
		Fineness M240								
		Autoclave M240								
		Compressive Strength M240								
		Vicat T131								
	Curing Agent	Specifications for Liquid Membrane Curing M148	DOT-168 Ga168	1 qt.	QPL-16 or pre-inspection by Central Lab Personnel				Jobsite storage	As required by SOP-17
		Paper Mats, Plastic Specifications		1 yd ²	Pre-inspected by Central Lab Personnel					
	Admixtures				QPL-13 & QPL-14				Stock	
	Fly Ash	Fineness M295	DOT-175 Ga175	10 lbs.	QPL-30	One per 2,000 tons, per Source			Jobsite storage	
		Activity M295								
		Soundness M295								
Density M295										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Slag	Chemical M295	DOT-175 Ga175	10 lbs.	QPL-30	One per 2,000 tons, per Source	Jobsite storage		
		Fineness M302							
		Activity M302							
		Air Content M302							
		Density M302							
	Chemical M302								
	Steel Bars for Reinforcement	Number M31M	Reinforce-ment Test Report Ga166	2 pcs. @ 24" per size	QPL-12 & QPL-61	Random Sampling at Fabricator			
		Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M							
		Height & Gap M31M							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Test T285							
	Chemical M31M								
	Steel Wire for Reinforcement	Size M32M	Reinforce-ment Test Report GACERT		Certified Mill Test Report				
		Diameter M32M							
		Area M32M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
	Bend Test M32M								
	Welded Steel Wire Fabric for Reinforcement	Size M55M	Welded Wire Test Report Ga166		QPL-55				
		Diameter M55M							
		Area M55M							
		Tensile Strength T244							
		Yield Strength T244							
Area Reduction T244									
Bend Test M55M									
Weld Shear Strength M55M									
Width M55M									
Length M55M									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
				SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE		
	Dowel Bars	Spacing M55M	Reinforce-ment Test Report Ga166					
		Number M31M						
		Weight M31M						
		Dimensions M31M						
		Deformation Spacing M31M*						
		Height & Gap M31M*						
		Tensile Strength T244						
		Yield Strength T244						
		Elongation T244						
		Bend Test T285						
	Chemical M31M							
	Coating 853.08			QPL-43				
	Dowel Bar Dipping Pan Paint		GACERT		Pre-inspected by Central Lab Personnel			
	Dowel Bars & Tie Bars	As Specified	Ga166	3 bars in basket assembly	Pre-inspected by Central Lab Personnel	One per Project		Jobsite storage
Coarse Aggregate	Gradation T27	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 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	QPL-2 Sources, 1 per month of production, except for Section D, Stockpile Basis Sources; Section D Sources, 1 per 1,500 tons	Belt & Stockpile	
	Wash 200 T11							
Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 1,500 tons based upon QPL-1,	QPL-1 Sources, 1 per 20,000 tons, except	QPL-1 Sources, 1 per 20,000 tons, except	Belt & Stockpile	
	Minus No. 200 T11							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Sand Equivalent GDT-63			except for Section D, Stockpile Basis, Sources. Material from Section D must be sampled.	for Section D, Stockpile Basis, Sources. The Department will perform acceptance tests on materials delivered from Section D Sources.	for Section D, Stockpile Basis, Sources. Section D Sources, 1 per 1,500 tons.		
	Silicone Sealant	Tensile Stress ASTM D412	Misc. Ga168		QPL-66 or 1 sample per batch, per Type				
		Durometer ASTM D2240							
		Bond GDT-106							
		Tack Free Time GDT-106							
		Extrusion GDT-106							
		Non-Volatile GDT-106							
		Specific Gravity ASTM D792							
		Adhesion GDT-106							
		Resistance ASTM C793							
	Bond Breakers – Rods	Density ASTM D1622	Misc. Ga168	6 ft	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment		Stock		
		Tensile Strength ASTM D1623							
		Water Absorption ASTM C1061							
	Bond Breakers – Tape	Thickness	Misc. Ga168		Certified Mill Test Report				
	Epoxy Adhesive	Pot Life GDT-58	Misc. Ga168	1 kit	QPL-15 or 1 sample per batch, per Type				
		Bond Strength GDT-58							
		Shelf Life							
		Condition							
	Water	Quality of Water to be Used in Concrete T26	Ga088	1 qt.*	One per unpotable Source, per month			Enough in advance so that results are known before use	*non-metal container
433									
REINFORCED CONCRETE	Concrete	Compressive Strength GDT-35 & T22	DOT-319 T152		Three sets of 4 cylinders per Lot				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
APPROACH SLABS		Air Content GDT-26							
		Slump GDT-27							
		Mix Temperature GDT-122							
	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3				
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
		Chemical M85							
	Portland Pozzolan Cement	Air Content T137	DOT-175 Ga175						
		Fineness M240							
		Autoclave M240							
		Compressive Strength M240							
		Vicat T131							
		Chemical M240							
	Fine Aggregate	Gradation T27	DOT-658 Ga658		One per 1,500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-1 Sources, 1 per 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	QPL-1 Sources, 1 per month of production, except for Section D, Stockpile Basis Sources, 1 per 1,500 tons		
		Sand Equivalent GDT-63							
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658		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 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	QPL-2 Sources, 1 per month of production, except for Section D, Stockpile Basis Sources, 1 per 1,500 tons		
		Gradation T27							
	Steel Bars for Reinforcement	Number M31M	Reinforce-ment	2 pcs. @ 24" per size	QPL-12 & QPL-61	Random sampling at Fabricator			
	Weight M31M	Test Report							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Dimensions M31M	Ga166						
		Deformation Spacing M31M							
		Height & Gap M31M							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Test T285							
		Chemical M31M							
	Fly Ash	Fineness M295	DOT-175 Ga175	10 lbs.	QPL-30				
		Activity M295							
		Soundness M295							
		Density M295							
		Chemical M295							
	Slag	Fineness M302	DOT-175 Ga175	10 lbs.	QPL-30	One per 2,000 tons, per Source	Jobsite storage		
		Activity M302							
		Air Content M302							
		Density M302							
		Chemical M302							
	Silicone Sealant	Tensile Stress ASTM D412	Misc. Ga168		QPL-66 or 1 sample per batch, per Type				
		Durometer ASTM D2240							
		Bond GDT-106							
		Tack Free Time GDT-106							
		Extrusion GDT-106							
		Non-Volatile GDT-106							
		Specific Gravity ASTM D792							
		Adhesion GDT-106							
		Resistance ASTM C793							
	Bond Breakers – Rods	Density ASTM D1622	Misc. Ga168	6 ft	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment		Stock		
		Tensile Strength ASTM D1623							
		Water Absorption ASTM C1061							
	Bond Breakers –	Thickness	Misc.		Certified Mill Test				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Tape		Ga168		Report				
	Epoxy Adhesive	Pot Life GDT-58	Misc. Ga168		QPL-15 or 1 sample per batch, per Type				
		Bond Strength GDT-58							
		Shelf Life							
		Condition							
434									
SAND ASPHALT PAVED DITCHES	Concrete	Compressive Strength GDT-35 & T22	DOT-319 T152	2 cylinders	One set per each 100 cumulative yd ³ or 1 set per week, per Plant		Observe 1 per 20 days operation	During pouring operation	
		Air Content GDT-26 or GDT-32							
		Slump GDT-27							
	Asphalt Complete Mixture	Specification Requirements GDT-38 or GDT-83		25 lbs.	Two per week			Truck or Roadway	
	Asphalt Cement	Dynamic Shear TP-5	DOT-504 Ga504	1 qt.	QPL-7	One per Project		Before application	
Fine Aggregate	Gradation T11 or T27 Sand Equivalent GDT-63	DOT-658 Ga658	20 lbs.	One per 1,500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-1 Sources, 1 per 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		QPL-1 Sources, 1 per month of production, except form Section D, Stockpile Basis Sources; Section D Sources, 1 per 1,500 tons	Stockpile	
435									
RAPID SETTING CEMENT CONCRETE END DAMS & PATCHES	Rapid Setting Patching Material	Flow of Mortar ASTM C109	Misc. Ga168		QPL-27 or pre- inspected by Central Lab Personnel				
		Flexural Strength T97							
		Compressive Strength ASTM C109 or ASTM C31							
		Adsorption ASTM C140							
		Chlorides T260							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Epoxy Adhesive	Shear Bond Freeze-Thaw ASTM C666	Misc. Ga168	1 kit	QPL-15 or 1 sample per batch, per Type			Stock	
		Pot Life GDT-58							
		Elongation GDT-58							
		Bond Strength GDT-58							
		Hardness ASTM D2240							
		Sag Test T237							
	Wet Bond Test T237								
	Silicone Sealant	Tensile Stress ASTM D412	Misc. Ga168		QPL-66 or 1 sample per batch, per Type			Stock	
		Hardness ASTM D2240							
		Bond GDT-106							
		Tack Free Time GDT-106							
		Extrusion GDT-106							
		Non-Volatile GDT-106							
		Specific Gravity ASTM D792							
		Adhesion GDT-106							
	Resistance ASTM C793								
	Bond Breakers – Rods	Density ASTM D1622	Misc. Ga168	6 ft	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment			Stock	
		Tensile Strength ASTM D1623							
		Water Absorption ASTM C1061							
	Bond Breakers – Tape	Thickness	Misc. Ga168		Certified Mill Test Report				
	Preformed Foam Joint Filler	Specification 822.10	Misc. Ga168		Certified Mill Test Report				
436									
ASPHALTIC CONCRETE CURB	NOTE: When placed in conjunction with Pay Item in Section 400, and ingredients are sampled under that Item, no additional samples of AC, CA, FA, or Mineral Filler required.								
	Tack Coat	Specification Requirements T59	DOT-503 Ga503	1 gal.	QPL-7	One per Project		Before application	

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Asphalt Cement	Dynamic Shear TP-5	DOT-504 Ga504	1 qt.	QPL-7	One per Project		Before application	
	Mineral Filler	Gradation T11 & T27		10 lbs.	QPL-81	One per 1,000 tons, per Type, per Source		Stock	
	Completed Mix	Specification Requirements GDT-38 or GDT-83	Ga387 Ga159-5	25 lbs.	Two per week		One per Project	Truck or Roadway	
	Fine Aggregate	Gradation T27	DOT-658 Ga658		One per 500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	As necessary			
		Sand Equivalent GDT-63							
Coarse Aggregate	Wash 200 T11	DOT-658 Ga658		One per 500 tons based upon QPL-2, except form Section D, Stockpile Basis Sources; material from Section D must be sampled.	As necessary				
	Gradation T27								
437									
GRANITE CURB	Granite from Unapproved Source	Percent Wear T96		100 lbs.	One per Source			Stock	
	Granite from Approved Source				QPL-2 & Visual Inspection				
438									
PRECAST CONCRETE HEADER CURB	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3	One per Quarter, per Source, per District			
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
		Chemical M85							
	Portland	Air Content T137	DOT-175 Ga175						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Pozzolan Cement	Fineness M240							
		Autoclave M240							
		Compressive Strength M240							
		Vicat T131							
		Chemical M240							
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.			
		Sand Equivalent GDT-63							
	Coarse Aggregate	Wash 200 T11	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.			
		Gradation T27							
	Steel Bars for Reinforcement	Number M31M	Reinforcement Test Report Ga166	2 pcs. @ 24" per size	QPL-12 & QPL-61				
		Weight M31M							
		Dimensions M31M							
Deformation Spacing M31M									
Height & Gap M31M									
Tensile Strength T244									
Yield Strength T244									
Elongation T244									
Bend Test T285									
Chemical M31M									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS		
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE				
	Fly Ash	Fineness <i>M295</i>	DOT-175 Ga175		QPL-30						
		Activity <i>M295</i>									
		Soundness <i>M295</i>									
		Density <i>M295</i>									
		Chemical <i>M295</i>									
	Dowel Bars	Number <i>M31M</i>	Reinforce-ment Test Report Ga166							*N/A for Plain Dowel Bars	
		Weight <i>M31M</i>									
		Dimensions <i>M31M</i>									
		Deformation Spacing <i>M31M*</i>									
		Height & Gap <i>M31M*</i>									
		Tensile Strength <i>T244</i>									
		Yield Strength <i>T244</i>									
		Elongation <i>T244</i>									
		Bend Test <i>T285</i>									
		Chemical <i>M31M</i>									
Coating <i>853.08</i>	QPL-43										
439											
PORTLAND CEMENT CONCRETE PAVEMENT (SPECIAL < 50,000 yd ²)	Concrete	Compressive Strength <i>GDT-35 & T22</i>	DOT-319 T152	2 cylinders	See NOTE 1		Observe on set per 3000 yd ³	During pouring	Cylinders to be broken in Branch or Central Lab		
		NOTE 1: One set per each 350 yd ³ of each Class of Concrete placed daily for each structure, except for Concrete used in Bridge Curb, Handrail or Wall Coping. Two Concrete cylinders shall be fabricated for each cumulative 350 yd ³ or fraction thereof, of Concrete placed per week in each structure. Cylinders shall not be fabricated at one structure to represent Concrete placed in another structure.									
		Air Content <i>GDT-26 or GDT-32</i>	T152	See NOTE 2	When cylinders are made		Observe 1 set per 3000 yd ³	Placement site	Additional Slump test will be required when Water is added on Project		
		Slump <i>GDT-27</i>									
		Mix Temperature <i>GDT-122</i>									
NOTE 2: Air, Slump & Mix Temperature tests are all required when cylinders are made & as judged necessary to insure adequate controls. Additional tests are recommended at least every third load on Bridge Deck placement.											
Portland Cement	Air Content <i>T137</i>	DOT-175 Ga175	10 lbs.		QPL-3				Jobsite Plants only		
	Fineness <i>M85</i>										
	Autoclave <i>M85</i>										
	Compressive Strength <i>M85</i>										
	Vicat <i>T131</i>										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Portland Pozzolan Cement	Chemical M85	DOT-175 Ga175						
		Air Content T137							
		Fineness M240							
		Autoclave M240							
		Compressive Strength M240							
		Vicat T131							
		Chemical M240							
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	Based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled 1 per 500 tons.	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.			
		Sand Equivalent GDT-63							
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	30 lbs.	Based upon QPL-2 Sources, 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.			
		Gradation T27							
	Steel Bars for Reinforcement	Number M31M	Reinforce-ment Test Report Ga166	2 pcs. @ 24" per size	QPL-12 & QPL-61	Random sampling at Fabricator			
		Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M							
Height & Gap M31M									
Tensile Strength T244									
Yield Strength T244									
Elongation T244									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Steel Wire for Reinforcement	Bend Test T285	Reinforce-ment Test Report Ga166		Certified Mill Test Report					
		Chemical M31M								
		Size M32M								
		Diameter M32M								
		Area M32M								
		Tensile Strength T244								
		Yield Strength T244								
		Area Reduction T244								
	Bend Test M32M									
	Welded Steel Wire Fabric for Reinforcement	Size M55M	Welded Wire Test Report Ga166		QPL-55					
		Diameter M55M								
		Area M55M								
		Tensile Strength T244								
		Yield Strength T244								
		Area Reduction T244								
		Bend Test M55M								
		Weld Shear Strength M55M								
		Width M55M								
		Length M55M								
	Spacing M55M									
	Dowel Bars	Number M31M	Reinforce-ment Test Report Ga166	3 bars in basket assembly	Pre-inspected by Central Lab Personnel	One per Project		Stock		*N/A for Plain Dowel Bars
		Weight M31M								
		Dimensions M31M								
		Deformation Spacing M31M*								
		Height & Gap M31M*								
		Tensile Strength T244								
		Yield Strength T244								
		Elongation T244								
		Bend Test M285								
		Chemical M3								
Coating 853.08										
Fly Ash	Fineness M295	DOT-175 Ga175	10 lbs.					Jobsite plants only		
	Activity M295									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Air Content M295							
		Density M295							
		Chemical M295							
	Slag	Fineness M302	DOT-175 Ga175	10 lbs.	QPL-30	One per 2,000 tons, per Source	Jobsite storage	Jobsite plants only	
		Activity M302							
		Soundness M302							
		Density M302							
		Chemical M302							
	Silicone Sealant	Tensile Stress ASTM D412	Misc. Ga168 GACERT		QPL-66				
		Durometer ASTM D2240							
		Bond GDT-106							
		Tack Free Time GDT-106							
		Extrusion GDT-106							
		Non-Volatile GDT-106							
		Specific Gravity ASTM D792							
		Adhesion GDT-106							
		Resistance ASTM C793							
	Bond Breakers – Rods	Density ASTM D1622	Misc. Ga168 GACERT	6 ft	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment		Stock		
		Tensile Strength ASTM D1623							
		Water Absorption ASTM C1061							
	Bond Breakers – Tape	Thickness	Misc. Ga168 GACERT		Certified Mill Test Report				
	Epoxy Adhesive	Pot Life GDT-58	Misc. Ga168 GACERT		QPL-15				
		Bond Strength GDT-58							
		Shelf Life							
		Condition							
	Water	Quality of Water to be Used in Concrete T26	Ga088	1 qt.*	One per unpotable Source, per month		Enough in advance so that results are known before use	*non-metal container	

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
PORTLAND CEMENT CONCRETE SHOULDERS	Portland Cement	Physical & Chemical Analysis M85	DOT-175 Ga175	10 lbs.	QPL-3	One per 2,000 tons	Jobsite storage		
		Air Content T137							
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat M131							
		Chemical M85							
	Portland Pozzolan Cement	Air Content T137	DOT-175 Ga175						
		Fineness M240							
		Autoclave M240							
		Compressive Strength M240							
		Vicat T131							
		Chemical M240							
	Curing Agent	Specification for Liquid Membrane Curing M148	DOT-168 Ga168		QPL-16				
	Admixtures		GACERT		QPL-13 & QPL-14				
	Steel Bars for Reinforcement	Number M31M	Reinforce-ment Test Report Ga166	2 pcs. @ 24" per size	QPL-12 & QPL-61	Random sampling at Fabricator			
		Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M							
		Height & Gap M31M							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Test T285							
	Chemical M31M								
	Steel Wire for Reinforcement	Size M32	Reinforce-ment Test Report Ga166		Certified Mill Test Report				
		Diameter M32							
Area M32									
Tensile Strength T244									
Yield Strength T244									
Area Reduction T244									
Bend Test M32									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS								
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE										
Welded Steel Wire Fabric for Reinforcement	Welded Steel Wire Fabric for Reinforcement	Size M55M	Welded Wire Test Report Ga166		QPL-55												
		Diameter M55M															
		Area M55M															
		Tensile Strength T244															
		Yield Strength T244															
		Area Reduction T244															
		Bend Test M55M															
		Weld Shear Strength M55M															
		Width M55M															
		Length M55M															
		Spacing M55M															
		Preformed Joint Filler									GACERT		QPL-20				
		Tie Bars								Tie Bars	Number M31M	Reinforce-ment Test Report Ga166	2 bars	Pre-inspection by Central Lab Personnel; 1 per Project			Stock
Weight M31M																	
Dimensions M31M																	
Deformation Spacing M31M																	
Height & Gap M31M																	
Tensile Strength T244																	
Yield Strength T244																	
Elongation T244																	
Bend Test T285																	
Chemical M31M																	
Coating 853.08																	
Graded Aggregate	Graded Aggregate	Gradation T11	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 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D sources.	QPL-2 Sources, 1 per 40,000 tons, except for Section D, Stockpile Basis Sources; Section D Sources, 1 per 4,000 tons	Stockpile	*Normally GDT-63 will only be required on Independent Assurance samples of graded aggregate. Also, GDT-2 will normally only be required on Independent Assurance samples on fine aggregate.								
		Sand Equivalent GDT-63*															
Coarse		Gradation T27	DOT-658 Ga658	45 lbs.	One per 1,500 tons	QPL-2 Sources, 1 per	QPL-2 Sources, 1 per	Belt or Stockpile									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Aggregate	Wash 200 T11			based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	month of production, except for Section D, Stockpile Basis Sources; Section D Sources, 1 per 1,500 tons		
	Fine Aggregate	Gradation T27 Minus No. 200 T11 Sand Equivalent GDT-63	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-1 Sources, 1 per 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	QPL-1 Sources, 1 per month of production, except for Section D, Stockpile Basis Sources; Section D Sources, 1 per 1,500 tons	Belt or Stockpile	
	Concrete	Compressive Strength GDT-35 & T22 Air Content GDT-26 Slump GDT-27 Thickness	DOT-319 T152	6" X 12" cylinders	Three sets of 2 cylinders per Lot When cylinders are made & as necessary for control As per specified Shoulder Type		Observe 3 sets per 20 days Three per 20 days of operation	During pouring operation	
	Fly Ash	Fineness M295 Activity M295 Soundness M295 Density M295 Chemical M295	DOT-175 Ga175	10 lbs.	QPL-30			Jobsite storage	
	Silicone Sealant	Tensile Stress ASTM D412 Durometer ASTM D2240 Bond GDT-106 Tack Free Time GDT-106 Extrusion GDT-106 Non-Volatile GDT-106	Misc. Ga168 GACERT		QPL-66				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Specific Gravity <i>ASTM D792</i>								
		Adhesion <i>GDT-106</i>								
		Resistance <i>ASTM C793</i>								
	Bond Breakers – Rods	Density <i>ASTM D1622</i>	Misc. Ga168 GACERT	6 ft	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment					
		Tensile Strength <i>ASTM D1623</i>								
		Water Absorption <i>ASTM C1061</i>								
	Bond Breakers – Tape	Thickness	Misc. Ga168 GACERT		Certified Mill Test Report					
	Epoxy Adhesive	Pot Life <i>GDT-58</i>	Misc. Ga168 GACERT		QPL-15					
		Bond Strength <i>GDT-58</i>								
		Shelf Life								
		Condition								
	441									
	MISCELLANEOUS CONCRETE	Portland Cement	Air Content <i>T137</i>	DOT-175 Ga175		QPL-3				
Fineness <i>M85</i>										
Autoclave <i>M85</i>										
Compressive Strength <i>M85</i>										
Vicat <i>T131</i>										
Chemical <i>M85</i>										
Portland Pozzolan Cement		Air Content <i>T137</i>	DOT-175 Ga175							
		Fineness <i>M240</i>								
		Autoclave <i>M240</i>								
		Compressive Strength <i>M240</i>								
		Vicat <i>T131</i>								
Chemical <i>M240</i>										
Fine Aggregate		Gradation <i>T27</i>	DOT-658 Ga658	20 lbs.	One per 500 tons,	QPL-1 Sources, 1 per				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Sand Equivalent GDT-63			based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Coarse Aggregate	Wash 200 T11 Gradation T27	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.			
	Curing Agents	Specification for Liquid Membrane Curing M148	GACERT			QPL-16			
	Admixtures								
	Steel Bars for Reinforcement	Number M31M Weight M31M Dimensions M31M Deformation Spacing M31M Height & Gap M31M Tensile Strength T244 Yield Strength T244 Elongation T244 Bend Test T285 Chemical M31M	Reinforce-ment Test Report Ga166	2 pcs. @ 24" per size	QPL-12 & QPL-61	Random sampling at Fabricator			
	Steel Wire for Reinforcement	Size M32M Diameter M32M Area M32M	Reinforce-ment Test Report Ga166		Certified Mill Test Report				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Tensile Strength T244	Welded Wire Test Report Ga166		QPL-55				
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M32M							
	Welded Steel Wire Fabric for Reinforcement	Size M55M							
	Diameter M55M								
	Area M55M								
	Tensile Strength T244								
	Yield Strength T244								
	Area Reduction T244								
	Bend Test M55M								
	Weld Shear Strength M55M								
	Width M55M								
	Length M55M								
	Spacing M55M								
Joint Fillers & Sealers									
Preformed Joint Filler	M153 or M213	Misc. Ga168 GACERT	10"	QPL-20			Stock	Sample in accordance with SOP-17	
Hot Pour Joint Sealers	Penetration GDT-62	Misc. Ga168 GACERT	8 lb. kit	Pre-inspected by Central Lab; 1 sample per shipment			Stock		
	Flow GDT-62								
	Resilience GDT-62								
	Bond GDT-62								
Compatibility GDT-62									
Elastomeric Polymer Type Joint Compound	Cone Penetration GDT-15	Misc. Ga168 GACERT	1 kit	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment			Stock		
	Solubility GDT-15								
	Resilience GDT-15								
	Flow GDT-15								
Bond GDT-15									
Preformed Elastic Joint Sealer	Tensile Strength ASTM D412	Misc. Ga168 GACERT	36"	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment			Stock		
	Elongation at Break ASTM D412								
	Hardness ASTM D2240								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Oven Aging ASTM D573							
		Oil Swell ASTM D471							
		Ozone Resistance ASTM D1149							
		Joint Sealer Recovery GDT-47							
		Compression/Deflection GDT-70							
	Water-Blown Urethane Joint Filler	Specification 833.05	Misc. Ga168 GACERT		Certified Mill Test Report				
	Silicone Sealant	Tensile Stress ASTM D412	Misc. Ga168 GACERT		QPL-66 or 1 sample per batch, per Type			Stock	
		Hardness ASTM D2240							
		Bond GDT-106							
		Tack Free Time GDT-106							
		Extrusion GDT-106							
		Non-Volatile GDT-106							
		Specific Gravity ASTM D792							
		Adhesion GDT-106							
	Resistance ASTM C793								
	Bond Breakers – Rods	Density ASTM D1622	Misc. Ga168 GACERT	6 ft	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment			Stock	
		Tensile Strength ASTM D1623							
		Water Absorption ASTM C1061							
	Bond Breakers – Tape	Thickness	Misc. Ga168 GACERT		Certified Mill Test Report				
	Neoprene for Bridge Deck Joint Seal	Specification 833.07	Misc. Ga168 GACERT		Certified Mill Test Report				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Ethylene Propylene Diene Monomer for Bridge Deck Joint Seals	Specification 833.08	Misc. Ga168 GACERT		Certified Mill Test Report				
	Polyurethane Sealant for Inductive Loops	Hardness ASTM D2240	Misc. Ga168 GACERT		QPL-75				
		Tensile Strength ASTM D412							
		Elongation ASTM D412							
		Flexibility							
	Weather Resistance ASTM D822								
	Preformed Foam Joint Filler	Specification 833.10	Misc. Ga168 GACERT		Certified Mill Test Report				
	Dowel Bars	Number M31M	Reinforce-ment Test Report Ga166	2 bars	Pre-inspection by Central Lab Personnel	One per Project	Stock	*N/A for Plain Dowel Bars	
		Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M*							
		Height & Gap M31M*							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Test T285							
		Chemical M3							
	Coating 853.08								
	Concrete	Compressive Strength GDT-35 & T22	DOT-319 T152	2 cylinders	One set per each cumulative 100 yd ³ or 1 set per week, per Plant		Observe 1 per 20 days operation	During pouring operation	
		Air Content GDT-26 or GDT-32			Air & Slump tests are required when			Placement site	

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Slump GDT-27			cylinders are made & as judged necessary to insure adequate control					
	Fly Ash	Fineness M295	DOT-175 Ga175		QPL-30					
		Activity M295								
		Soundness M295								
		Density M295								
		Chemical M295								
	Epoxy Adhesive	Pot Life GDT-58	Misc. Ga168 GACERT		QPL-15					
		Bond Strength GDT-58								
		Shelf Life								
		Condition								
442										
SEALING ROADWAY & BRIDGE JOINTS	Silicone Sealant	Tensile Stress ASTM D412	Misc. Ga168 GACERT		QPL-66		Stock			
		Durometer ASTM D2240								
		Bond GDT-106								
		Tack Free Time GDT-106								
		Extrusion GDT-106								
		Non-Volatile GDT-106								
		Specific Gravity ASTM D792								
		Adhesion GDT-106								
		Resistance ASTM C793								
	Epoxy Adhesive	Pot Life GDT-58	Misc. Ga168 GACERT		QPL-15 or 1 sample per batch, per Type		Stock			
		Bond Strength GDT-58								
		Shelf Life								
		Elongation GDT-58								
		Hardness ASTM D2240								
		Sag T237								
	Bond Breakers - Rods	Density ASTM D1622	Misc. Ga168 GACERT		5 ft	One per Project & Certified Mill Test Report		Stock		
		Tensile Strength ASTM D1623								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Water Absorption ASTM C1016							
	Bond Breakers - Tape	Thickness	Misc. Ga168 GACERT	5 ft	One per Project & Certified Mill Test Report			Stock	
445									
WATERPROOFING PAVEMENT JOINTS & CRACKS	Waterproofing Membranes for Pavement Joints & Cracks	Permeability GDT-69	Misc. Ga168 Ga088		QPL-22			Stock	
		Breaking Factor ASTM D882							
		Heat Resistance GDT-69							
		Puncture Resistance ASTM E154							
		Elongation ASTM D882							
		Pliability ASTM D146							
		Adhesion GDT-69							
		Thickness							
446									
PAVEMENT REINFORCEMENT FABRIC	High Strength Pavement Reinforcement Fabric	Tensile Strength ASTM D412	Misc. Ga168 GACERT	4 ft	One per Project & Certified Mill Test Report			Stock	
		Elongation ASTM D412							
		Density ASTM E12							
		Weight per Gallon ASTM D70							
		Softening Point ASTM D36							
		Caliper ASTM D1777							
		Specific Gravity ASTM D80							
		Pliability ASTM D146							
	Width								
	Weight								
Pavement Reinforcement Fabric – Type I or II		Tensile Strength ASTM D4632	Misc. Ga168 GACERT	4 ft	QPL-7			Stock	
		Elongation at Break ASTM D4632							
		Asphalt Retention GDT-95							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Bituminous Prime		GACERT							
448										
PORTLAND CEMENT CONCRETE END DAMS & PATCHES	Concrete	Air Content GDT-26 & GDT-35	T152		One set of 4 for each placement date. (2 for 1 day, 2 for 3 day) Air, Slump & Mix Temperature tests are required when cylinders are made & as judged necessary to insure adequate controls					
		Slump GDT-27								
		Mix Temperature GDT-122								
	Epoxy Adhesive	Pot Life GDT-58	Misc. Ga168 GACERT	1 kit	QPL-15 or 1 sample per batch, per Type			Stock		
		Elongation GDT-58								
		Bond Strength GDT-58								
		Hardness ASTM D2240								
		Sag Test T237								
	Wet Bond Test T237									
	Silicone Sealant	Tensile Stress ASTM D412	Misc. Ga168 GACERT		QPL-66					
		Durometer ASTM D2240								
		Bond GDT-106								
		Tack Free Time GDT-106								
		Extrusion GDT-106								
		Non-Volatile GDT-106								
		Specific Gravity ASTM D792								
		Adhesion GDT-106								
	Resistance ASTM C793									
	Preformed Foam Joint Filler		GACERT			QPL-20				
	Portland Cement	Air Content T137	DOT-175 Ga175							
Fineness M85										
Autoclave M85										
Compressive Strength M85										
Vicat T131										
Chemical M85										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
				SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE		
	Portland Pozzolan Cement	Air Content T137	DOT-175 Ga175					
		Fineness M240						
		Autoclave M240						
		Compressive Strength M240						
		Vicat T131						
		Chemical M240						
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.		
		Sand Equivalent GDT-63						
	Coarse Aggregate	Wash 200 T11	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.		
		Gradation T27						
	Fly Ash	Fineness M295	DOT-175 Ga175					
		Activity M295						
		Soundness M295						
		Density M295						
		Chemical M295						
Epoxy Adhesive	Pot Life GDT-58	Misc. Ga168 GACERT		QPL-15				
	Bond Strength GDT-58							
	Shelf Life							
	Condition							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Cylinders	Compressive Strength T22	DOT-319 T152						
450									
PRESSURE GROUTING PORTLAND CEMENT CONCRETE PAVEMENT	Concrete Grout								
	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3				
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
	Chemical M85								
	Calcium Chloride	Specification M144	DOT-319 T152						
	Water	Quality of Water to be Used in Concrete T26		1 qt.	One per unpotable Source, per month			Enough in advance so that results are known before use	
	Fly Ash	Fineness M295	DOT-175 Ga175		QPL-30				
		Activity M295							
		Soundness M295							
		Density M295							
Chemical M295									
Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.		Stock	If Lime or Fly Ash is to be added, sample Total Mixture of Fine Aggregate as indicated.	
	Sand Equivalent GDT-63								
Complete Mixture	Flow of Grout GDT-84			One per day of operation	Observe 1 per Project		During pumping operation		

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Penetration Resistance ASTM C403			One per Project or enough to insure proper setting time				
	Agricultural Lime				Pre-approved by Central Lab				
	Mineral Filler	Gradation GDT-22							
		Plasticity Index T90							
451									
PATCHING PORTLAND CEMENT CONCRETE PAVEMENT	24-Hour Concrete								
		Compressive Strength GDT-35 & T22	DOT-319 T152		One set for 4 of each placement date. (2 for 1 day, 2 for 3 day) Air, Slump & Mix Temperature tests are required when cylinders are made & as judged necessary to insure adequate controls.			Cylinder frequency & curing in accordance with Section 504 of the Specifications	
		Air Content GDT-26 & GDT-35							
		Slump GDT-27							
		Mix Temperature GDT-122							
	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3				
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
		Chemical M85							
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.		Stock or Conveyor Belt	
	Wash 200 T11								
	Sand Equivalent GDT-63								
Coarse	Wash 200 T11	DOT-658 Ga658	35 lbs.	One per 1,500 tons	QPL-2 Sources, 1 per		Stock or Conveyor Belt		

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Aggregate	Gradation T27			based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Calcium Chloride	Specification M144	DOT-319 T152						
	Water	Quality of Water to be Used in Concrete T26	Ga088	1 qt.	One per unpotable Source, per month			Enough in advance so that results are known before use	
	Epoxy Adhesive	Pot Life GDT-58	Misc. Ga168 GACERT		QPL-15				
Bond Strength GDT-58									
Shelf Life									
Condition									
	Silicone Sealant	Tensile Stress ASTM D412	Misc. Ga168 GACERT		QPL-66				
Durometer ASTM D2240									
Bond GDT-106									
Tack Free Time GDT-106									
Extrusion GDT-106									
Non-Volatile GDT-106									
Specific Gravity ASTM D792									
Adhesion GDT-106									
Resistance ASTM D793									
	Polyethylene Foam	Cell Structure	Misc. Ga168 GACERT		QPL-20				
Compression ASTM D1752									
Recovery ASTM D1752									
Water Absorption ASTM D1752									
Extrusion ASTM D1752									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Rapid Setting Patching Material	Flow of Mortar ASTM C109	Misc. Ga168 GACERT		QPL-27 or pre-inspected by Central Lab Personnel			Stock	
		Flexural Strength T97							
		Compressive Strength ASTM C109 or ASTM C31							
		Absorption ASTM C140							
		Chlorides T260							
		Shear Bond Section 934.03							
	Freeze-Thaw Durability Certification								
	Epoxy Concrete				Mix Designs submitted to the Central Lab for approval				
452									
FULL DEPTH SLAB REPLACEMENT	Concrete	Compressive Strength GDT-35 & T22	DOT-319 T152		One set of 4 for each placement date. (2 for 1 day, 2 for 3 day)				
		Air Content GDT-26							
		Slump GDT-27							
		Mix Temperature GDT-122							
	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3		Observe 1 per 750 yds ³		
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
	Chemical M85								
Fine Aggregate	Gradation T27	DOT-658 Ga658		One per 500 tons based upon QPL-1,	QPL-1 Sources, 1 per month, per active				
	Minus No.200 T11								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Sand Equivalent GDT-63			except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658		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.			
		Gradation T27							
	Steel Bars for Reinforcement	Number M31M	Reinforce-ment Test Report Ga166	2 pcs. @ 24" per size	QPL-12 & QPL-61	Random sampling at Fabricator			
		Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M							
		Height & Gap M31M							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Test T285							
		Chemical M31M							
	Dowel Bars	Number M31M	Reinforce-ment Test Report Ga166	3 bars in basket assembly					
		Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M*							
		Height & Gap M31M*							
	Tensile Strength T244								
									*N/A for Plain Dowel Bars

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Yield Strength T244								
		Elongation T244								
		Bend Test T285								
		Chemical M31M								
		Coating 853.08								
	Silicone Sealant	Tensile Stress ASTM D412	Misc. Ga168 GACERT			QPL-43				
		Durometer ASTM D2240								
		Bond GDT-106								
		Tack Free Time GDT-106								
		Extrusion GDT-106								
		Non-Volatile GDT-106								
		Specific Gravity ASTM D792								
	Epoxy Adhesive	Adhesion GDT-106	Misc. Ga168 GACERT	1 kit		QPL-66				
		Pot Life GDT-58								
		Bond Strength GDT-58								
	Cylinders	Shelf Life	Misc. Ga168 GACERT			QPL-15 <i>or</i> one sample per batch, per Type			Stock	
		Condition								
			Compressive Strength T22	DOT-319 T152 / DOT-168 Ga168	6" X 12" cylinders	2 @ 24 hrs.; 2 @ 3 days			Observe 1 per 750 yds ³	
	500									
	CONCRETE STRUCTURES	Portland Cement	Air Content T137	DOT-175 Ga175	10 lbs.	QPL-3			Stock	
Fineness M85										
Autoclave M85										
Compressive Strength M85										
Vicat T131										
Portland Pozzolan Cement		Chemical M85	DOT-175 Ga175							
		Air Content T137								
		Fineness M240								
		Autoclave M240								
		Compressive Strength M240								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Vicat T131							
		Chemical M240							
	Fly Ash	Physical & Chemical ASTM C311	DOT-175 Ga175	10 lbs.	QPL-30	One per Quarter, per Source, per District	Stock		
		Fineness M295							
		Activity M295							
		Soundness M295							
		Density M295							
		Chemical M295							
	Slag	Fineness M302	DOT-175 Ga175	10 lbs.	QPL-30	One per Quarter, per Source, per District	Stock		
		Activity M302							
		Soundness M302							
		Density M302							
		Chemical M302							
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 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.	Stock or Conveyor Belt		
		Gradation T27							
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.	Stock or Conveyor Belt		
		Sand Equivalent GDT-63							
		Wash 200 T11							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Water	Quality of Water to be Used in Concrete T26	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	
	Chemical Admixtures	Chemical Admixtures for Concrete M194	Ga175	1 qt.	QPL-14	One per 6 months, per Source, per District		Ready Mix Plant Stock	
	Deck Oil		GACERT	1 qt.	QPL-23	None		Stock	
	Steel Bars for Reinforcement	Number M31M	Reinforce-ment Test Report Ga166	2 pcs. @ 24" per size	QPL-12 & QPL-61	Random sampling at Fabricator			
		Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M							
		Height & Gap M31M							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Test T285							
	Chemical M31M								
	Steel Wire for Reinforcement	Size M32M	Reinforce-ment Test Report Ga166		Certified Mill Test Report				
		Diameter M32M							
		Area M32M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M32M							
	Welded Steel Wire Fabric for Reinforcement	Size M55M	Welded Wire Test Report Ga166		QPL-55				
		Diameter M55M							
		Area M55M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M55M							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Weld Shear Strength M55M							
		Width M55M							
		Length M55M							
		Spacing M55M							
Permanent Steel Bridge Deck Forms		ASTM A446 & ASTM A525	GACERT		Certified Mill Test Report				
Dowel Bars		Number M31M	Reinforce-ment Test Report Ga166						
		Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M*							*N/A for Plain Dowel Bars
		Height & Gap M31M*							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Test T285							
		Chemical M31M							
	Coating 853.08			QPL-43					
Damproofing or Waterproofing Membrane		Specification Requirements M115, M118 or M121	GACERT	1 qt.	One per Type, per Source			Before application	
Curing Agent		Specification for Liquid Membrane Curing M148	DOT-168 Ga168		QPL-16			Stock	
Concrete		Compression Strength GDT-35 & T22	DOT-319 T152 Ga168	2 cylinders	See NOTE 1		Observe 1 set per 750 yd ³	During pouring	Cylinders to be broken in Branch or Central Lab
	<p>NOTE 1: One set per each 50 yd³ of each Class of Concrete placed daily for each structure, except for Concrete used in Bridge Curb, Handrail or Wall Coping. Two Concrete cylinders shall be fabricated for each cumulative 50 yd³ or fraction thereof, of Concrete placed per week in each structure. Cylinders shall not be fabricated at one structure to represent Concrete placed in another structure.</p>								
		Air Content GDT-26 or GDT-32	DOT-319 T152 Ga168	See NOTE 2	When cylinders are made			One set per 750 yd ³	Placement site

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Slump GDT-27					Observe 1 per 750 yd ³		
		Mix Temperature GDT-122							
		NOTE 2: Air, Slump & Mix Temperature tests are all required when cylinders are made & as judged necessary to insure adequate controls. Additional tests are recommended at least every third load on bridge deck placement.							
	Concrete for Pipe Head-Walls, Spillways, Slope Drains, Highway Signs Guardrails, Misc. Drainage Structures, Highway Light, Fence	Air Content GDT-26 & GDT-35	DOT-319 T152	See NOTE				During pouring operation	
		Slump GDT-27	Ga168						
		NOTE: Acceptance of Concrete for these items is based upon results of Slump & Air tests & the properly documented DOT-319. No cylinders are required. Air & Slump tests are performed as judged necessary to insure adequate control.							
	Silicone Sealant	Tensile Stress ASTM D412	Misc. Ga168 GACERT		QPL-66				
		Durometer ASTM D2240							
		Bond GDT-106							
		Tack Free Time GDT-106							
		Extrusion GDT-106							
		Non-Volatile GDT-106							
		Specific Gravity ASTM D792							
		Adhesion GDT-106							
	Resistance ASTM C793								
	Epoxy Adhesive	Pot Life GDT-58	Misc. Ga168 GACERT	1 kit	QPL-15 or 1 sample, per batch, per Type			Stock	
		Bond Strength GDT-58							
		Shelf Life							
		Viscosity ASTM D1084							
		Specific Gravity							
	Condition								
	Graffiti-Proof Coating		GACERT		QPL-42				

501

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
STEEL STRUCTURES	Structural Steel	Charpy ASTM E23	Misc. Ga168 GACERT	4" X 12" per heat number (4" length is in direction of roll; main members only)	Certified Mill Test Report, pre-inspected & GDT stamped			Fabrication shop	Sampling in Accordance with SOP-8 & Supplemental Specifications 501.01
		Thickness							
		Yield Strength ASTM A370							
		Tensile Strength ASTM A370							
		Elongation ASTM A370							
		Reduction of Area ASTM A370							
		Hardness ASTM A370							
	Chemical ASTM A709								
	Cold Finished Carbon Shafting	Chemical M169	Misc. Ga168 GACERT		Certified Mill Test Report				
		Certification							
	Steel Castings	Chemical M103	Misc. Ga168 GACERT		Certified Mill Test Report				
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Reduction of Area T244							
		Dimensions							
	Certification								
	Paints	Pigment ASTM D2371	Misc. Ga168 GACERT	1 qt.	QPL-46 (Systems IV & V): pre-inspected by Central Lab Personnel & GDT stamped QPL-54 & QPL-73 (System VI): <u>not</u> GDT stamped			Supplier (Systems IV & V only)	
		Non-Volatile Vehicle							
		Grind							
		Viscosity ASTM D562							
Dry Time ASTM D711									
Percent Volatile									
Weight per Gallon ASTM D1475									
Color									
Certification									
Steel Bolts, Nuts & Washers	ASTM A307	Misc. Ga168 GACERT	3 bolts	Certified Mill Test Report			Stock	Independent Assurance: sample occasionally	
	Chemical ASTM F568								
	Yield Strength ASTM F606								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Tensile Strength <i>ASTM F606</i>							
		Elongation <i>ASTM F606</i>							
		Reduction of Area <i>ASTM F606</i>							
		Hardness <i>ASTM F606</i>							
		Length							
		Diameter							
		Thread Class							
		Galvanization <i>ASTM A90 or ASTM E376</i>							
	High Tensile Strength Bolts, Nuts & Washers	<i>ASTM A325 & ASTM A490</i>							
		Chemical <i>ASTM F568</i>							
		Yield Strength <i>ASTM F606</i>							
		Tensile Strength <i>ASTM F606</i>							
		Elongation <i>ASTM F606</i>							
		Reduction of Area <i>ASTM F606</i>	Misc. Ga168 GACERT	Three of each, per Rotational Capacity Lot Number (RCP)	Pre-inspected by Central Lab Personnel	Three bolt assemblies per Rotation Capacity Lot Number (RCP)		Fabricator or Supplier	Sample for each Project
		Hardness <i>ASTM F606</i>							
		Rotation <i>ASTM A325</i>							
		Diameter							
		Thread Dimension							
		Galvanization <i>ASTM A90 or ASTM E376</i>							
	Anchor Bolts	Grade <i>As Specified on Plans</i>							
		Yield Strength <i>T244</i>							
		Tensile Strength <i>T244</i>	Misc. Ga168 GACERT	1 bolt per diameter, per Heat Number, per Project	Pre-inspected by Central lab Personnel			Fabricator or Supplier	
		Elongation <i>T244</i>							
		Reduction of Area <i>T244</i>							
		Thread Dimensions							
		Size							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Diameter							
		Length							
		Chemical							
	Shear Connectors	Charpy <i>ASTM E23</i>	Misc. Ga168 GACERT		QPL-6 & Certified Mill Test Report				
		Thickness							
		Yield Strength <i>ASTM A370</i>							
		Tensile Strength <i>ASTM A370</i>							
		Elongation <i>ASTM A370</i>							
		Reduction of Area <i>ASTM A370</i>							
		Hardness <i>ASTM A370</i>							
		Chemical <i>ASTM A709</i>							
		Length							
	Elastomeric Bearing Pads	Hardness <i>ASTM D2240</i>	Misc. Ga168 GACERT	1 pad per Lot Number, per size, per Project	Pre-inspected by Central Lab Personnel & GDT stamped		Supplier	Independent Assurance: sample occasionally	
		Tensile Strength <i>ASTM D412</i>							
		Elongation <i>ASTM D412</i>							
		Heat Resistance <i>ASTM D573</i>							
		Compression Set <i>ASTM D395</i>							
		Brittleness <i>ASTM D746</i>							
		Dimensions							
		Laminate Thickness							
		Tensile Strength <i>M183</i>							
		Yield Strength <i>M183</i>							
		Elongation <i>M183</i>							
	Plain Cotton Duck	Certification	Misc. Ga168 GACERT		Certified Mill Test Report				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Rubber Impregnated Cotton Duck	Certification	Misc. Ga168 GACERT		Certified Mill Test Report				
	Galvanizing	ASTM A90 or ASTM E376	Misc. Ga168 GACERT						
	Self-Lubricating Bronze Bearing & Expansion Plates & Bushings	Certification	Misc. Ga168 GACERT		Certified Mill Test Report				
502									
TIMBER STRUCTURES	Treated Timber	Retention of Preservative AWWA C14	Misc. Ga168 GACERT		QPL-50, pre-inspected by Authorized Agency & AWW stamped				Independent Assurance: sample occasionally
	Untreated Timber	Certification	Misc. Ga168 GACERT		Certification of Inspection from Vendor & Visual Inspection; Grade Stamp required				
	Lumber & Timber	Certification	Misc. Ga168 GACERT		QPL-50, pre-inspected by Authorized Agency & AWW stamped				
	Preservative Treatment	Certification	Misc. Ga168 GACERT		QPL-50, pre-inspected by Authorized Agency & AWW stamped				
	Paints	Pigment ASTM D2371	Misc. Ga168 GACERT	1 qt.	QPL-46 (Systems IV & V): pre-inspected by Central Lab Personnel & GDT stamped QPL-54 & QPL-73 (Systems VI): not				
Non-Volatile Vehicle									
Grind									
Viscosity ASTM D562									
		Dry Time ASTM D711							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Percent Volatile			GDT stamped				
		Weight per Gallon <i>ASTM D1475</i>							
		Color							
		Certification							
	Misc. Bridge Hardware (Galvanized Items)	Chemical <i>ASTM F568</i>	Misc. Ga168 GACERT		Certified Mill Test Report		Stock	Independent Assurance: sample occasionally	
		Yield Strength <i>ASTM F606</i>							
		Tensile Strength <i>ASTM F606</i>							
		Elongation <i>ASTM F606</i>							
		Reduction of Area <i>ASTM F606</i>							
		Hardness <i>ASTM F606</i>							
		Length							
		Diameter							
		Thread Class							
		Galvanization <i>ASTM A90 or ASTM E376</i>							
	Structural Steel	Charpy <i>ASTM E23</i>	Misc. Ga166 Ga168 GACERT		Certified Mill Test Report, pre-inspected & GDT stamped				
		Thickness							
		Yield Strength <i>ASTM A370</i>							
		Tensile Strength <i>ASTM A370</i>							
		Elongation <i>ASTM A370</i>							
		Reduction of Area <i>ASTM A370</i>							
		Hardness <i>ASTM A370</i>							
	Chemical <i>ASTM A709</i>								
	Plain Cotton Duck	Certification	Misc. Ga168 GACERT		Certified Mill Test Report				
	Misc. Steel	Grade <i>As Specified</i>	Misc. Ga166		Certified Mill Test Report				
		Yield Strength <i>T244</i>							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Tensile Strength T244	GA168 GACERT						
		Size Elongation T244							
		Reduction of Area T244							
		Thread Dimensions							
		Diameter							
		Length							
		Chemical							
		Rotation ASTM A325							
		Galvanization ASTM A90 or ASTM E376							
503									
STEEL GRID FLOORING	Steel Grid	Grade As Specified	Ga166 GACERT		Pre-inspected & GDT stamped				
		Galvanization ASTM A123							
	Paint	Specification Requirement Section 870.01	Paint Report GACERT	1 qt.	QPL-46 (Systems IV & V): pre-inspected by Central Lab Personnel & GDT stamped QPL-54 and QPL-73 (System VI): not GDT stamped				
	Concrete		T152	One set per 50 yds ³ of each Class of Concrete placed daily for each structure, except for Concrete used in Bridge Curb or Wall Coping. Two Concrete cylinders shall be fabricated for each cumulative 50 yds ³ or fraction thereof, of Concrete placed per week in each structure. Cylinders shall not be fabricated at one structure to represent Concrete placed in another structure.					
504									
TWENTY-FOUR HOUR ACCELERATED STRENGTH CONCRETE	Concrete Compressive Strength	Cylinders GDT-35 & T22	DOT-319 T152		One set of 4 for each placement date. (2 for 1 day, 2 for 3 day) Air, Slump & Mix Temperature tests are required when cylinders are made & as judged necessary to insure adequate controls			In accordance with Section 504 of the Specifications	
		Air Content GDT-26 & GDT-35							
		Slump GDT-27							
		Mix Temperature GDT-122							
	Portland Cement	Air Content T137	DOT-175 Ga175						
		Fineness M85							
Autoclave M85									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Compressive Strength M85							
		Vicat T131							
		Chemical M85							
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.	Stock or Conveyor Belt		
		Wash 200 T11							
		Sand Equivalent GDT-63							
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 lbs.	One per 1,500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be tested.	QPL-2 Sources, 1 per month, per active plant, except Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	Stock or Conveyor Belt		
		Gradation T27							
	Calcium Chloride	Specification M144	DOT-319 T152						
	Water	Quality of Water to be Used in Concrete T26	Ga088	1 qt.*	One per unpotable Source, per month			Enough in advance so that results are known before use	*non-metal container
505									
CORRUGATED STEEL BRIDGE	Corrugated Steel Plank for Bridges	ASTM A123 or ASTM A525	Misc. Ga168 GACERT		Certified Mill Test Report			Independent Assurance: sample occasionally	
		Yield Strength T244							
		Tensile Strength T244							
		Width							
		Thickness							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Depth & Spacing of Corrugations							
		Chemical ASTM A570							
		Galvanization ASTM A90 or ASTM E376							
		Certification							
	Paints	Pigment ASTM D2371	Misc. Ga168 GACERT	1 qt.	QPL-46 (Systems IV & V): pre-inspected by Central Lab Personnel & GDT stamped QPL-54 & QPL-73 (System VI): <u>not</u> GDT stamped		Supplier (Systems IV & V only)		
		Non-Volatile Vehicle							
		Grind							
		Viscosity ASTM D562							
		Dry Time ASTM D711							
		Percent Volatile							
		Weight per Gallon ASTM D1475							
		Color							
		Certification							
506									
EXPANDED MORTAR	Portland Cement		Ga175	Sampled & tested in conjunction with other Concrete construction on Project. No additional sample required under normal circumstances.					
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 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 from Section D Sources.		Stock or Conveyor Belt	
		Gradation T27							
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1,	QPL-1 Sources, 1 per month, per active		Stock or Conveyor Belt	
		Sand Equivalent GDT-63							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS		
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE				
		Wash 200 T11			except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.					
	Aluminum Powder	Fineness ASTM D480	GACERT	50 g	Acceptance based on label stating material is Aluminum Powder of Unpolished Type or 1 sample per Project			Stock			
	Water	Quality of Water to be Used in Concrete T26	Ga088	1 qt.*	One per unpotable Source, per month			Enough in advance so that results are known before use	*non-metal container		
507											
PRESTRESSED CONCRETE BRIDGE MEMBERS	Plain Steel Bars – Threaded Ends	Chemical ASTM A370	Ga166								
		Tensile Strength T244									
		Yield Strength T244									
		Elongation T244									
		Reduction of Area T244									
		Thread Dimensions									
		Hardness ASTM A370									
	Anchor Bolts	Grade As Specified on Plans	Misc. Ga168 GACERT	1 each: Bolt, Nut & Washer	Certified Mill Test Report				Stock		
		Yield Strength T244									
		Tensile Strength T244									
		Elongation T244									
		Reduction of Area T244									
		Thread Dimensions									
		Size									
Diameter											
Length											
Chemical											

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Bushings, Bearings & Expansion Plates	Certification	GACERT		Certified Mill Test Report			Stock	
	Structural Steel	Charpy <i>ASTM E23</i>	Misc. Ga166 GACERT		Certified Mill Test Report, pre-inspected & GDT stamped			Stock	
		Thickness							
		Yield strength <i>ASTM A370</i>							
		Tensile Strength <i>ASTM A370</i>							
		Elongation <i>ASTM A370</i>							
		Reduction of Area <i>ASTM A370</i>							
		Hardness <i>ASTM A370</i>							
	Chemical <i>ASTM A709</i>								
	Elastomeric Bearing Pads	Hardness <i>ASTM D2240</i>	Misc. Ga168 GACERT	1 pad per Lot Number, per size, per Project	Pre-inspected by Central Lab Personnel & GDT stamped			Supplier	
		Tensile Strength <i>ASTM D412</i>							
		Elongation <i>ASTM D412</i>							
		Heat Resistance <i>ASTM D573</i>							
		Compression Set <i>ASTM D395</i>							
		Brittleness <i>ASTM D746</i>							
		Dimensions							
		Laminate Thickness							
		Tensile Strength <i>M183</i>							
		Yield Strength <i>M183</i>							
	Elongation <i>M183</i>								
	Plain Cotton Duck	Weight	Ga168	1 yd ²	One per shipment			Stock	
	Rubber Impregnated Cotton Duck	Weight							
		Compressive Strength							
	Paints	Pigment <i>ASTM D2371</i>	Misc.	1 qt.	QPL-46 (Systems IV &				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Non-Volatile Vehicle	Ga168 GACERT		V): pre-inspected by Central Lab Personnel & GDT stamped QPL-54 & QPL-73 (System VI): <u>not</u> GDT stamped				
		Grind							
	Viscosity ASTM D562								
	Dry Time ASTM D711								
	Percent Volatile								
	Weight per Gallon ASTM D1475								
	Color								
	Certification								
	Bridge Members		Ga168 GACERT		QPL-9, Plant Shipping Report (OMR-22) & Official Plant Stamp. Bridge Beams: same as above & GDOT stamp				
508									
ASPHALT PLANK BRIDGE FLOOR	Premolded Asphalt Plank	Dimensions		1 yd ²	One per Lot			Stock	
		Weight of Surface Absorption							
		Brittleness							
		Hardness M46							
	Cutback Asphalt	Viscosity T201	DOT-325 Ga325	1 qt.	QPL-7			Before application	
Asphalt Cement	Dynamic Shear TP-5	DOT-504 Ga504	1 qt.	QPL-7			Before application		
511									
REINFORCEMENT STEEL	Steel Bars for Reinforcement	Number M31M	Reinforce-ment Test Report Ga166 GACERT	2 @ 24" per size	QPL-12, QPL-61 & Certified Mill Test Report	Random sampling of Fabricator		Supplier	One sample per size, per Project by Independent Assurance Personnel
		Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M							
		Height & Gap M31M							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
				SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE		
		Bend Test T285						
		Chemical M31M						
		Wire Bar Supports						
	Galvanized	Shape	Misc. Ga166 GACERT					
		Height						
		Wire Size						
		Galvanization ASTM A123						
	Stainless	Shape	Misc. Ga166 GACERT					
		Height						
		Wire Size						
		Chemical						
		Tensile Strength T244						
	Bright	Shape	Misc. Ga166 GACERT					
		Height						
		Wire Size						
	Plastic Covered	Shape	Misc. Ga166 GACERT					
		Height						
		Wire size						
		Tensile Strength T244						
		Hardness ASTM D2240						
	Epoxy Coated	Shape	Misc. Ga166 GACERT					
		Height						
		Wire Size						
		Thickness						
		Condition						
	Plastic	Shape	Misc. Ga166 GACERT					
		Height						
		Wire Size						
		Compressive Strength T22						
		Water Absorption ASTM D570						
512								
SHEAR CONNECTORS	Stud	Charpy ASTM E23	Misc. Ga166		QPL-6 & Certified Mill Test Report			
		Thickness						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Yield Strength <i>ASTM A370</i>	GACERT						
		Tensile Strength <i>ASTM A370</i>							
		Elongation <i>ASTM A370</i>							
		Reduction of Area <i>ASTM A370</i>							
		Hardness <i>ASTM A370</i>							
		Chemical <i>ASTM A709</i>							
		Length							
	Channel	Certification	Misc.		QPL-6 & Certified Mill Test Report				
513									
PRECAST REINFORCED CONCRETE BOX CULVERT BARREL SECTIONS & END SECTIONS	Complete Units	Certification	DOT-164A Ga164a / DOT-619		QPL-4 with CPT stamp <u>or</u> pre-inspected by Central Lab Personnel & GDT stamped				
	Portland Cement	Air Content <i>T137</i>	DOT-175 Ga175		QPL-3				
		Fineness <i>M85</i>							
		Autoclave <i>M85</i>							
		Compressive Strength <i>M85</i>							
		Vicat <i>T131</i>							
	Chemical <i>M85</i>								
	Portland Pozzolan Cement	Air Content <i>T137</i>	DOT-175 Ga175		QPL-3				
		Fineness <i>M240</i>							
		Autoclave <i>M240</i>							
		Compressive Strength <i>M240</i>							
		Vicat <i>T131</i>							
	Chemical <i>M240</i>								
	Fine Aggregate	Gradation <i>T27</i>	DOT-658 Ga658	20 lbs.	One per 500 tons	QPL-1 Sources, 1 per			

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Sand Equivalent GDT-63			based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Coarse Aggregate	Wash 200 T11	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.			
		Gradation T27							
	Steel Bars for Reinforcement	Number M31M	Reinforcement Test Report Ga166 GACERT	2 ea. @ 24" per size	Certified Mill Test Report	Random Sampling at Precast Manufacturer			
		Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M							
		Height & Gap M31M							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Test T285							
	Chemical M31M								
	Steel Wire for Reinforcement	Size M32M	Reinforcement Test Report Ga166 GACERT		Certified Mill Test Report				
		Diameter M32M							
		Area M32M							
		Tensile Strength T244							
		Yield Strength T244							
	Area Reduction T244								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Welded Steel Wire Fabric for Reinforcement	Bend Test M32M	Welded Wire Test Report Ga166 GACERT	1 ft ²	QPL-55	Random Sampling at Precast Manufacturer			
		Size M55M							
		Diameter M55M							
		Area M55M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M55M							
		Weld Shear Strength M55M							
		Width M55M							
		Length M55M							
		Spacing M55M							
		Cylinders					Compressive Strength T22	DOT-319 T152	3 ea.
Steel Bolts, Nuts & Washers	Chemical ASTM F568	Misc. Ga166 GACERT		Certified Mill Test Report					
	Yield Strength ASTM F606								
	Tensile Strength ASTM F606								
	Elongation ASTM F606								
	Reduction of Area ASTM F606								
	Hardness ASTM F606								
	Length								
	Diameter								
	Thread Class								
	Galvanization ASTM A90 or ASTM E376								
Anchor Bolts	Grade As Specified	Misc. Ga166 GACERT		Certified Mill Test Report					
	Yield Strength T244								
	Tensile Strength T244								
	Elongation T244								
	Reduction of Area T244								
	Thread Dimensions								
	Size								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Diameter								
		Length								
		Chemical								
	Corrugated Steel Pipe	Diameter	Misc. Ga166 GACERT		Certified Mill Test Report					
		Depth & Spacing of Corrugations M36								
		Thickness								
	Corrugated Plastic Pipe	Diameter	Misc. Ga164a Ga168 GACERT		Certified Mill Test Report					
		Depth & Spacing of Corrugations M252								
		Thickness								
		Stiffness ASTM D2412								
		Flattening M252								
		Elongation M252								
		Brittleness M252								
		Flexibility M252								
		Couplings M252								
		Strength M252								
Backfill										
	Type I – Class I & II Soil	Gradation GDT-4	DOT-408 Ga408 / DOT-97 Ga097	30 lbs.		One per major soil Type				
		Percent Clay GDT-4								
		Volume Change GDT-6								
		Density GDT-7 or GDT-67								
		Classification Section 810								
	Type II – Backfill Aggregate	Gradation T27	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.	As required by Project Engineer				
	Type III –	Density GDT-7	DOT-408 Ga408 /		Notify Central Lab					

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Soil/Organic	Condition of Mixture	DOT-97 Ga097							
514										
EPOXY COATED STEEL REINFORCEMENT	Steel Bars for Reinforcement	Number M31M	Reinforce-ment Test Report Ga166 GACERT		Certified Mill Test Report					
		Weight M31M								
		Dimensions M31M								
		Deformation Spacing M31M								
		Height & Gap M31M								
		Tensile Strength T244								
		Yield Strength T244								
		Elongation T244								
		Bend Test T285								
	Chemical M31M									
Epoxy Coating	Thickness ASTM G12	Misc. GACERT	QPL-38 & QPL-43							
	Adhesion M284									
515										
HANDRAIL - FERROUS METAL & PIPE	Anchor Bolts	Specification Requirements	Misc. GACERT		Accepted by Project Personnel based on Visual Inspection & Certified Mill Test Report					
	Handrail & Misc. Steel Items	Galvanization ASTM A123	Misc. Ga165h GACERT		Finished Handrail inspected by Central Lab Personnel					
	Structural Steel	Charpy ASTM E23	Misc. Ga165h GACERT		Certified Mill Test Report					
		Thickness								
		Yield Strength ASTM A370								
		Tensile Strength ASTM A370								
		Elongation ASTM A370								
		Reduction of Area ASTM A370								
		Hardness ASTM A370								
Chemical ASTM A709										
Malleable Iron	Chemical ASTM A27	Misc. GACERT		Certified Mill Test						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Castings	Tensile Strength T244			Report					
		Yield Strength T244								
		Elongation T244								
		Reduction of Area T244								
	Steel Castings	Chemical M103	Misc. GACERT			Certified Mill Test Report				
		Tensile Strength T244								
		Yield Strength T244								
		Elongation T244								
		Reduction of Area T244								
		Dimensions								
		Certification								
	Steel Pipe	Chemical ASTM A53	Misc. Ga165h GACERT			Certified Mill Test Report				
		Yield Strength T244								
		Tensile Strength T244								
		Elongation T244								
		Bending ASTM A53								
		Flattening ASTM A53								
		Non-Destructive Electric Test ASTM A53								
		Weight								
		Diameter								
		Thickness								
		Finish								
		Appearance								
		Steel Bolts, Nuts & Washers					Chemical ASTM F568	Misc. GACERT		
	Yield Strength ASTM F606									
	Tensile Strength ASTM F606									
	Elongation ASTM F606									
	Reduction of Area ASTM F606									
Hardness ASTM F606										
Length										
Diameter										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Paints	Thread Class	Misc. GACERT	1 qt.	QPL-46 (Systems IV & V): pre-inspected by Central Lab Personnel & GDT stamped QPL-54 & QPL-73 (System VI): <u>not</u> GDT stamped				
		Galvanization ASTM A90 or ASTM E376							
		Pigment ASTM D2371							
		Non-Volatile Vehicle							
		Grind							
		Viscosity ASTM D562							
		Dry Time ASTM D711							
		Percent Volatile							
		Weight per Gallon ASTM D1475							
		Color							
	Certification								
	Plain Steel Bars	Chemical ASTM A370	Misc. Ga166 GACERT	Certified Mill Test Report					
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
Reduction of Area T244									
Thread Dimensions									
Hardness ASTM A370									
516									
ALUMINUM HANDRAIL	Aluminum Alloy Materials	Chemical	Misc. Ga165 GACERT		Certified Mill Test Report				
		Thickness							
		Dimensions							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Diameter Factor ASTM B209							
		Hardness ASTM B241							
	Shear Strength ASTM B565								
	Caulking Compound	Certification	Misc. GACERT		Manufacturer's Certification				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Plain Steel Bars	Chemical ASTM A370	Misc. GACERT		Certified Mill Test Report				
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Reduction of Area T244							
		Thread Dimensions							
		Hardness ASTM A370							
	Steel Nuts, Bolts & Washers	Chemical ASTM F568	Misc. Ga166 GACERT		Certified Mill Test Report				
		Yield Strength ASTM F606							
		Tensile Strength ASTM F606							
		Elongation ASTM F606							
		Reduction of Area ASTM F606							
	Hardness ASTM F606								
	Elastomeric Bearing Pads	Hardness ASTM D2240	Misc. GACERT		Certified Mill Test Report				
		Tensile Strength ASTM D412							
		Elongation ASTM D412							
		Heat Resistance ASTM D573							
		Compression Set ASTM D395							
		Brittleness ASTM D746							
		Dimensions							
		Laminate Thickness							
Tensile Strength M183									
Yield Strength M183									
Elongation M183									
Galvanizing	ASTM A90 or ASTM E376	Misc. GACERT		Pre-inspected by Central Lab Personnel					
519									
BRIDGE DECK OVERLAY	Concrete	Cylinders GDT-35 & T22	DOT-319 T152	2 cylinders	See NOTE 1				Cylinders to be broken in Branch or Central Lab

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	GUIDE FREQUENCY				LOCATION OR TIME OF SAMPLING	REMARKS	
				SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		<p>NOTE 1: One set per each 50 yd³ of Class of Concrete placed daily for each structure. Cylinders shall not be fabricated at one structure to represent Concrete placed in another structure.</p>								
		Air Content GDT-26 or GDT-32		See NOTE 2	When cylinders are made			Placement site		
		Slump GDT-27							Additional Slump test will be required when Water is added on Project	
		Temperature GDT-122								
		<p>NOTE 2: Air, Slump & Mix Temperature tests is all required when cylinders are made & as judged necessary to insure adequate controls. Additional tests are recommended at least every third load on Bridge Deck placement</p>								
	Portland Cement	Air Content T137	DOT-175 Ga175	10 lbs.	QPL-3	One per Quarter, per Source, per District				
		Fineness M85								
		Autoclave M85								
		Compressive Strength M85								
		Vicat T131								
		Chemical M85								
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.				
		Sand Equivalent GDT-63								
	Coarse	Wash 200 T11	DOT-658 Ga658	40 lbs.	One per 1,500 tons	QPL-2 Sources, 1 per				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Aggregate	Gradation T27			based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Fly Ash	Fineness M295	DOT-175 Ga175	10 lbs.	QPL-30	One per Quarter, per Source, per District			
		Activity M295							
		Soundness M295							
		Density M295							
		Chemical M295							
	Slag	Fineness M302	DOT-175 Ga175	10 lbs.	QPL-30	One per 2,000 tons, per Source		Jobsite storage	
		Activity M302							
		Air Content M302							
		Density M302							
		Chemical M302							
	Air Entrainment Admixtures	Air-Entraining Admixture for Concrete M154	DOT-168 Ga168 GACERT	1 qt.	QPL-13	One per 6 months, per Source, per District			
	Chemical Admixtures	Chemical Admixtures for Concrete M194	DOT-168 Ga168 GACERT	1 qt.	QPL-14	One per 6 months, per Source, per District			
	Curing Agent	Specification for Liquid Membrane Curing M148	DOT-168 Ga168 GACERT	1 qt.	QPL-16				
	Water	Quality of Water for Concrete T26	DOT-168 Ga168 GACERT	1 qt.*		One per unpotable Source, per month			*non-metal container
520									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
PILING	Prestressed Concrete		Ga165P GACERT		QPL-9, Plant Shipping Report (OMR-122) & Official plant stamp; Visual Inspection by Project Personnel					
	Treated Timber Piles	Retention of Preservative AWWA C14	Misc. GACERT		QPL-50, pre-inspected by Authorized Agency & AWW Stamp					
	Preservative Treatment	Certification	Misc. GACERT		QPL-50 & Pre- inspected by Authorized Agency					
	Aluminum Powder	Fineness ASTM D480	Misc. GACERT							
	Self-Lubricating Bronze Bearing & Expansion Plates & Bushings	Certification	Misc. GACERT		Certified Mill Test Report					
	Paint	Pigment ASTM D2371 Non-Volatile Vehicle Grind Viscosity ASTM D562 Dry Time ASTM D711 Percent Volatile Weight per Gallon ASTM D1475 Color Certification	Misc. GACERT	1 qt.	QPL-46 (Systems IV & V): pre-inspected by Central Lab Personnel & GDT stamped QPL-54 & QPL-73 (System VI): <u>not</u> GDT stamped					
	Welded & Seamless Steel Pile	Thickness Chemical ASTM A252 Tensile Strength T244	Misc. Ga165P GACERT		QPL-44 & Certified Mill Test Report					

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Yield Strength T244								
		Elongation T244								
		Diameter								
		Weight								
		Certification								
	Fluted Steel Shell Pile	Thickness	Misc. Ga165P GACERT		QPL-44 & Certified Mill Test Report					
		Diameter								
		Yield Strength T244								
		Certification								
	Steel H-Pile	Charpy ASTM E23	Misc. Ga165P GACERT		QPL-44 & Certified Mill Test Report					
		Thickness								
		Yield Strength ASTM A370								
		Tensile Strength ASTM A370								
		Elongation ASTM A370								
		Reduction of Area ASTM A370								
		Hardness ASTM A370								
		Chemical ASTM A709								
		Certification								
	Steel Bolts, Nuts & Washers	Chemical ASTM F568	Misc. GACERT		Certified Mill Test Report					
		Yield Strength ASTM F606								
		Tensile Strength ASTM F606								
		Elongation ASTM F606								
		Reduction of Area ASTM F606								
		Hardness ASTM F606								
		Length								
		Diameter								
		Thread Class								
		Galvanization ASTM A90 or ASTM E376								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Aluminum Alloy Sheet & Plate	Chemical Thickness Dimensions Tensile Strength T244 Yield Strength T244 Elongation T244 Bend Diameter Factor ASTM B209 Hardness ASTM B241 Shear Strength ASTM B565	Misc. GACERT		Certified Mill Test Report				
529									
NAVIGATION LIGHTING	Electrical Materials	As Specified	GACERT		Approved by the Underwriter's Laboratory or Certified Mill Report & approved Catalog Cuts			Stock	
	Anchor Bolts	Grade As Specified Yield Strength T244 Tensile Strength T244 Elongation T244 Reduction of Area T244 Thread Dimensions Size Diameter Length Chemical	Misc. GACERT						
	Paint	Pigment ASTM D2371 Non-Volatile Vehicle Grind Viscosity ASTM D562 Dry Time ASTM D711 Percent Volatile	Misc. GACERT	1 qt.	QPL-46 (Systems IV & V): pre-inspected by Central Lab Personnel & GDT stamped QPL-54 & QPL-73 (System VI): <u>not</u> GDT stamped				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Weight per Gallon <i>ASTM D1475</i>							
		Color							
		Certification							
	Lighting Standards	Certification	Misc. GACERT		QPL-52, pre-inspected by Central Lab Personnel & GDT stamped				
	Luminaries & Ballasts	Certification	Misc. GACERT		Approved Catalog Cuts				
Circuit Breakers	Certification	Misc. GACERT		Approved Catalog Cuts					
Cable	Certification	Misc. GACERT		Approved Catalog Cuts					
530									
WATERPROOFING FABRICS	Waterproofing Membrane Material for Retaining Walls	Thickness	Misc. GACERT		QPL-22				
		Tensile Strength <i>ASTM D412</i>							
		Elongation <i>ASTM D412</i>							
		Permeance <i>ASTM E96</i>							
		Puncture Resistance <i>ASTM E154</i>							
		Pliability <i>ASTM D146</i>							
		Cycling Over Crack <i>Section 888.03</i>							
Certification									
531									
DAMPPROOFING	Bituminous Material for Waterproofing or Dampproofing	Specification Requirements <i>M115, M118 or M121</i>	GACERT	1 qt.	One per Type, per Source			Before application	
533									
BRIDGE DECK WATERPROOFING MEMBRANE	Hot Mix Asphaltic Concrete								
	Asphalt Cement	Dynamic Shear <i>TP-5</i>	DOT-504 Ga504	1 qt.	QPL-7	As per GSP-21		Storage Tank	
	Coarse	Wash 200 <i>T11</i>	DOT-658 Ga658	45 lbs.	QPL-2	As necessary		Stockpile	

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Aggregate for Asphaltic Concrete	Gradation T27							
	Fine Aggregate for Asphaltic Concrete	Gradation T11 & T27	DOT-658 Ga658	20 lbs.	QPL-1	As necessary	Stockpile		
		Clay Lumps T1121							
		Sand Equivalent GDT-63							
		Mica Content							
	Mineral Filler	Gradation T11 & T27	DOT-168 GACERT	10 lbs.	QPL-81	One per 500 tons, per Type, per Source	One per Project	Stockpile	
	In-Place Material	Thickness Measurement GDT-42	DOT-176 Ga176		One per 1,000 ft, per 2 lanes		Observe 1 per 3 miles, per 2 lanes	Completed Course	
	Hydrated Lime	Physical & Chemical Analysis M216-84	GACERT	1 qt.*	QPL-41	One per Quarter	Silo or Tanker	*air-tight container As required by SOP-17	
		Gradation T219							
		Chemical T219							
	Complete Mixture	Extractions T11, GDT-38, GDT-73, GDT-83 or GDT-125	DOT-387 Ga387	Varies per Mix Type	Minimum 1 per 500 tons	Two QA samples per 5 days production or 5 lots; 1 comparison sample per 10 days	One per 10 days of production or 8,000 tons	Truck or Roadway	AASHTO T308 (Method A)
		Stripping Test GDT-56		300 g	One per Extraction (Open-Graded Mixes only)			Same as Extraction	For all Asphaltic Concrete "OGFC" & other Mixes where the additive is incorporated at the plant, test at frequency of 1 per Extraction
		Compaction GDT-39, GDT-59 or GDT-73	DOT-386 Ga386	Core	Five per Lot*		One per 10 lots, per Mix, consisting of 5 individual comparison tests	After Compaction	Small quantities may be accepted with less Compaction tests *Each test consists of 3 readings when Nuclear Gauge is used to determine Density
Bituminous Tack Coat									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Asphalt Cement	Dynamic Shear TP-5	DOT-504M Ga504M		QPL-7				
	Emulsified Asphalt	Viscosity T59	T59	1 qt.	QPL-7			Before application	
	Sand For Blast Cleaning	Gradation GDT-3	Misc. GACERT		Visual Inspection		Stock	Independent Assurance: sample occasionally	
		TCLP EPA SWD 846-1311							
		Certification							
	Waterproofing Membrane Material for Bridge Decks	Bond GDT-69	Misc. GACERT		QPL-22				
		Permeability GDT-69							
		Heat Resistance GDT-69							
		Penetration GDT-69							
		Freeze-Thaw GDT-69							
		Chemical Resistance GDT-69							
		Shear Resistance GDT-69							
		Effectiveness GDT-69							
	Certification								
535									
PAINTING STRUCTURES	Paint	Specification Requirements Section 870.01	Paint Report GACERT	1 qt.	QPL-46 (Systems IV & V): pre-inspected by Central Lab Personnel & GDT stamped QPL-54 & QPL-73 (System VI): <u>not</u> GDT stamped			Supplier (Systems IV & V only)	Independent Assurance: sample occasionally
	Paint – Completed Coat	Anchor Pattern	DOT-168A Ga168a GACERT	1 qt.	QPL-46 (Systems IV & V): pre-inspected by Central Lab Personnel & GDT stamped QPL-54 & QPL-73 (System VI): <u>not</u> GDT stamped		Beginning of Project, before initial paint is applied & occasionally thought out the Project		
		Steel Temperature							
		Ambient Temperature							
		Humidity							
		Dew Point							
		Adhesion							
		MEK Rub GDT-110							
	Final Paint Thickness					After completion of			

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
							each Project		
	Lead Paint Residue	TCLP EPA SWD 846-1311	TCLP Report						
		Disposal Manifest							
543									
CONSTRUCTION OF BRIDGE COMPLETE									
Earthwork									
	Embankments (to within 1 ft of top)	Theoretical Density GDT-7 or GDT-67	DOT-408 Ga408 / DOT-97 Ga097	30 lbs.	One per major soil Type		One per Project	Roadway (before Compacting)	Volume Change tests may be omitted on accepted samples, except the first sample & each fifth sample thereafter, which shall be submitted to the Branch or Central Lab for testing, unless provisions are made for testing on the Project. Percent Moisture is part of Density test procedure.
		Gradation GDT-4							
		Volume Change GDT-6							
		Classification Section 810							
	In-Place Density GDT-20, GDT- 21, GDT-55 & GDT-59	DOT-553 Ga553		One per 5,000 yd ³		One per 60,000 yd ³	Completed Lift		
Rock		Gradation Visual	DOT-658 Ga658		QPL-2				Requires approval by Pit & Quarry if not from QPL-2 Source
		Abrasion T96							
		Soundness T104							
		Petrographic Analysis ASTM D295							
Pond Sand		Gradation Visual	DOT-408 Ga408 / DOT-97 Ga097						Requires approval by Pit & Quarry
		Volume Change GDT-6							
		Density GDT-7 or GDT-67							
Piling									
	Treated Timber Piles	Retention of Preservative AWP/A C14	Misc. Ga168 GACERT		QPL-50, pre-inspected by Authorized Agency & AWW stamp				
	Fluted Steel Shell Pile	Thickness	Misc. Ga165P		QPL-44 & Certified Mill Test Report				
Diameter									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Yield Strength T244	GACERT							
		Certification								
	Steel H-Pile	Charpy ASTM E23	Misc. Ga165P GACERT		QPL-44 & Certified Mill Test Report					
		Thickness								
		Yield Strength								
	Lumber & Timber	Certification	Misc. Ga168 GACERT		QPL-50, pre-inspected by Authorized Agency & AWW stamp					
Expanded Mortar										
	Portland Cement	Sampled & tested in conjunction with other Concrete construction on Project. No additional sample required under normal circumstances.								
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 lbs.	One per 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. The Department will perform acceptance tests on materials delivered from Section D Sources.		Stock or Conveyor Belt		
		Gradation T27								
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.		Stock or Conveyor Belt		
		Sand Equivalent GDT-63								
		Wash 200 T11								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Aluminum Powder	Fineness ASTM D480	GACERT	50 g	Acceptance based on label stating material is Aluminum Powder of Unpolished Type or 1 sample per Project			Stock		
	Water	Quality of Water to be Used in Concrete T26	Ga088	1 qt.*	One per unpotable Source, per month			Enough in advance so that results are known before use	*non-metal container	
	Steel Bars for Reinforcement	Number M31M	Reinforce-ment Test Report Ga166	2 @ 24" per size	QPL-12, QPL-61 & Certified Mill Test Report	Random sampling of Fabricator	Supplier	One sample per size, per Project by Independent Assurance Personnel		
Weight M31M										
Dimensions M31M										
Deformation Spacing M31M										
Height & Gap M31M										
Tensile Strength T244										
Yield Strength T244										
Elongation T244										
Bend Test T285										
Chemical M31M										
	Misc. Bridge Hardware		GACERT	One of ea. item	Certified Mill Test Report			Stock		
Joint Material										
	Silicone Sealant	Tensile Stress ASTM D412	Misc. GACERT		QPL-66			Stock		
		Durometer ASTM D2240								
		Bond GDT-106								
		Tack Free Time GDT-106								
		Extrusion GDT-106								
		Non-Volatile GDT-106								
		Specific Gravity ASTM D792								
		Adhesion GDT-106								
	Resistance ASTM C793									
	Epoxy Adhesive	Pot Life GDT-58	Misc. GACERT		QPL-15 or 1 sample per batch, per Type			Stock		
		Bond Strength GDT-58								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Shelf Life							
		Elongation <i>GDT-58</i>							
		Hardness <i>ASTM D2240</i>							
		Sag <i>T237</i>							
		Wet Bond <i>T137</i>							
	Bond Breakers - Rods	Density <i>ASTM D1622</i>	Misc. GACERT	5 ft	One per Project & Certified Mill Test Report		Stock		
		Tensile Strength <i>ASTM D1623</i>							
		Water Absorption <i>ASTM C1016</i>							
	Bond Breakers - Tape	Thickness	Misc. GACERT	5 ft	One per Project & Certified Mill Test Report		Stock		
	Creosote & Pitch				Accepted by Project Personnel based on Visual Inspection				
	Roofing Felt			1 yd ²	Accepted by Project Personnel based on Visual Inspection		Stock	Independent Assurance: sample occasionally	
	Sheet Packing				Accepted by Project Personnel based on Visual Inspection				
	Tie Bolt Assembly		GACERT		Certified Mill Test Report & Visual Inspection				
	Paint	Specification Requirements <i>Section 870.01</i>	Paint Report Ga168a	1 qt.	QPL-46 (Systems IV & V): pre-inspected by Central Lab Personnel & GDT stamped QPL-54 & QPL-73 (System VI): <u>not</u> GDT stamped				
	Completed Units				QPL-9				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
544										
DECK DRAIN SYSTEMS	Clips, Brackets, Bars, etc.	Certification	Misc. GACERT	1 ea.	Certified Mill Test Report			Stock	Independent Assurance: sample occasionally	
	Galvanized Repair Compound	Certification	Misc. GACERT	1 qt.	Pre-inspected by Central Lab Personnel & GDT stamped					
	Hardware	Certification	Misc. GACERT		Certified Mill Test Report					
550										
STORM DRAIN PIPE, PIPE-ARCH CULVERTS & SIDE DRAIN PIPE	Reinforced Concrete Pipe									
	Physical Properties of Pipe	Diameter M170	Ga164		QPL-4 with CPT Stamp or pre- inspected by Central Lab with GDT Stamp					
		Thickness M170								
		Reinforcement Design M170								
		External Load Strength T280	OMR-INSP-86							
	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3					
		Fineness M85								
		Autoclave M85								
		Compressive Strength M85								
		Vicat T131								
	Chemical M85									
	Fly Ash	Fineness M295	DOT-175 Ga175		QPL-30					
		Activity M295								
		Soundness M295								
		Density M295								
		Chemical M295								
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1,	QPL-1 Sources, 1 per month, per active				
Wash 200 T11										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Sand Equivalent GDT-63			except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Coarse Aggregate	Wash 200 T11	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.			
		Gradation T27							
	Steel Wire for Reinforcement	Size M32M	Reinforcement Test Report Ga166 GACERT	1 ft	Certified Mill Test Report	Random sampling at Manufacturer			
		Diameter M32M							
		Area M32M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M32M							
	Welded Steel Wire Fabric for Reinforcement	Size M55M	Welded Wire Test Report Ga166 GACERT	1 ft ²	QPL-55	Random sampling at Manufacturer			
		Diameter M55M							
		Area M55M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M55M							
		Weld Shear Strength M55M							
		Width M55M							
	Length M55M								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Spacing M55M							
	Cylinders	Compressive Strength T22	Certification T152	3 ea.					
Non-Reinforced Concrete Pipe									
Physical Properties of Pipe	Diameter M86	Ga166				QPL-4 with CPT stamp or pre-inspected by Central Lab with GDT stamp			
	Thickness M86								
	Absorption M86								
	Permeability M86								
	External Load Strength T280								
Portland Cement	Air Content T137	DOT-175 Ga175			QPL-3				
	Fineness M85								
	Autoclave M85								
	Compressive Strength M85								
	Vicat T131								
	Chemical M85								
Fly Ash	Fineness M295	DOT-175 Ga175			QPL-30				
	Activity M295								
	Soundness M295								
	Density M295								
	Chemical M295								
Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.		One per 500 tons based upon QPL-1, 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								
	Sand Equivalent GDT-63								
Coarse	Wash 200 T11	DOT-658 Ga658	45 lbs.	One per 1,500 tons	QPL-2 Sources, 1 per				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Aggregate	Gradation T27			based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.				
	Corrugated Steel Pipe	Diameter M36M	Misc. Ga164a		QPL-56 & pre-inspected by CMPT or GDT tags					
		Depth & Spacing of Corrugations M36M								
		Thickness M36M								
		Galvanization M218M								
	Corrugated Aluminum Alloy Pipe	Diameter M196M	Misc. Ga164a		QPL-56 & pre-inspected by CMPT or GDT tags					
		Depth & Spacing of Corrugations M196M								
		Thickness M196M								
		Arch Dimensions M196M								
		Chemical M197M								
		Tensile Strength T244								
		Yield Strength T244								
		Elongation T244								
	Smooth Lined Corrugated Polyethylene Culvert Pipe	Diameter M294M	Misc. Ga164a		QPL-51 & approval thermally branded by Plastic Pipe Technician					
		Depth & Spacing of Corrugations M294M								
		Thickness M294M								
		Stiffness ASTM D2412								
		Flattening M294M								
		Elongation M294M								
		Brittleness M294M								
		Flexibility M294M								
		Couplings M294M								
		Strength M294M								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Polyvinyl Chloride (PVC) Profile Wall Drain Pipe	M304	Ga164a		Certified Mill Test Report				
	Ductile Iron Pipe	Certification	Ga164a		Certified Mill Test Report				
	Mortar Cement	Specification Requirements M150	Ga175	1 gal.	Enough to insure consistency & quality			Stock	
	Mortar Sand	Gradation T27	Ga658	20 lbs.	QPL-1, Sections A, B & C				
Backfill									
	Type I – Soil, Class I & II	Gradation GDT-4 Percent Clay GDT-4 Volume Change GDT-6 Density GDT-7 or GDT-67 Classification Section 810	DOT-408 Ga408	30 lbs.		One per major soil Type		Before Compacting	
	Type II – Backfill Aggregate	Gradation T27	DOT-658 Ga658	45 lbs.	One per 500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D Sources must be sampled.	As required by Project Engineer			
	Type III – Soil/Organic	Density GDT-7 Condition of Mixture	DOT-408 Ga408		Notify Central Lab				
	Bituminous Plastic Cement	Specification Requirements		1 qt.	QPL-21 or sample representing each Lot of shipment			Stock	
	Pre-Coated Galvanized Steel Culverts	Diameter M245M Depth & Spacing of Corrugations M245M Thickness M245M Galvanize M218M	Misc. Ga164a GACERT		Certified Mill Test Report				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Coating Thickness <i>M245M</i>								
		Arch Dimensions <i>M245M</i>								
	Galvanized Repair Compound	Certification	Misc. GACERT	1 qt.	Pre-inspected by Central Lab Personnel & GDT stamped					
	Gaskets	Certification	GACERT		QPL-21 & Certified Mill Test Report					
555										
TUNNEL LINER	Liner Plates	Size <i>As Specified</i>	Misc. GACERT		Certified Mill Test Report					
		Thickness <i>As Specified</i>								
		Sectional Modulus <i>As Specified</i>								
		Tensile Strength <i>T244</i>								
		Yield Strength <i>T244</i>								
		Elongation <i>T244</i>								
		Bend Test <i>ASTM A569</i>								
	Galvanization <i>M167M</i>									
	Grout Ingredients	<i>As Specified</i>			Enough to insure consistency & quality					
	Bricks	Size	Misc. GACERT	10 Bricks	One set per 50,000 bricks, per Source					
Absorption <i>T32</i>										
Compressive Strength <i>T32</i>										
560										
STRUCTURAL PLATE PIPE, PIPE- ARCH & ARCH CULVERTS	Backfill									
	Type I – Class I & II Soils	Gradation <i>GDT-4</i>	DOT-408 Ga408			One per major soil Type				
		Percent Clay <i>GDT-4</i>								
		Volume Change <i>GDT-6</i>								
		Density <i>GDT-7 or GDT-67</i>								
Classification <i>Section 810</i>										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Type II – Backfill Aggregate	Gradation T27	DOT-658 Ga658		One per 500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	As required by Project Engineer			
	Type III – Soil/Organic	Density GDT-7 Condition of Mixture	DOT-408 Ga408		Notify Central Lab				
	Steel Structural Plate for Pipe, Pipe-Arches, & Arches	Diameter M167M	Misc. GACERT		QPL-56 & pre-inspected with CMPT tag or GDT Tag				
Depth & Spacing of Corrugations M167M									
Thickness M167M									
Chemical M167M									
Yield strength T244									
Tensile Strength T244									
Elongation T244									
Galvanization M167M									
Galvanized Repair Compound	Certification	Misc. GACERT	1 qt.	Pre-inspected by Central Lab Personnel & GDT stamped					
Corrugated Aluminum Alloy Structural Plate for Pipe, Pipe-Arches & Arches	Diameter M219M	Misc. GACERT		QPL-56 & pre-inspected with CMPT or GDT tag					
	Depth & Spacing of Corrugations M219M								
	Thickness M219M								
	Arch Dimensions M219M								
	Chemical ASTM B209								
	Tensile Strength T244								
	Yield Strength T244								
Elongation T244									
561									
RENOVATING PIPE (Helically Corrugated)	Corrugated Steel Pipe	Diameter M36M Depth & Spacing of Corrugations M36M	Misc. Ga164a		QPL-56 & pre-inspected with GMPT or GDT tags				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Thickness M36M								
		Galvanization M218M								
	Portland Cement	Air Content T137	Ga175							
		Fineness M85								
		Autoclave M85								
		Compressive Strength M85								
		Vicat T131								
		Chemical M85								
	Mineral Filler		GACERT		QPL-81					
	Fine Aggregate	Gradation T27	DOT-658 Ga658		One per 500 tons based upon QPL-1, 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.				
		Sand Equivalent GDT-63								
	Fly Ash	Fineness M295	DOT-175 Ga175		QPL-30	One per Quarter, per Source, per District				
		Activity M295								
		Soundness M295								
		Density M295								
		Chemical M295								
	Water	Quality of Water to be Used in Concrete T26	Ga088	1 qt.	One per unpotable Source, per month		Enough in advance so that results are known before use			
	Grout Mixture	Slump GDT-84			One per day or enough to control work					
	Smooth Lined Corrugated Polyethylene Culvert Pipe	Diameter M294M	Misc. Ga164a		QPL-51 & approval thermally branded by Plastic Pipe Technician					
		Depth & Spacing of Perforations M294M								
		Thickness M294M								
		Stiffness M294M								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Flattening <i>M294M</i>							
		Cracking <i>M294M</i>							
		Brittleness <i>M294M</i>							
		Fittings <i>M294M</i>							
570									
MINOR DRAINAGE STRUCTURES FOR DETOURS	Corrugated Metal Pipe	Diameter <i>M36M</i>	Misc. Ga164a		QPL-56 & pre-inspected with CMPT or GDT tags				
		Depth & Spacing of Corrugations <i>M36M</i>							
		Thickness <i>M36M</i>							
		Galvanization <i>M318M</i>							
	Type II – Backfill Aggregated	Gradation <i>T27</i>	DOT-658 Ga658	45 lbs.	One per 500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; materials from Section D must be sampled.	As required by Project Engineer			
573									
UNDERDRAINS	Aggregate for Underdrain	Gradation <i>T27</i>	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 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	One per Project	Spreader Belt or Trench	At least 1 in each 3 samples shall be taken from the Spreader, Conveyor & Belt. If the samples are taken from Trench, it shall be a combination of material taken from 3 locations at least 10' apart.
		Reinforced Concrete Pipe							
	Physical Properties of Pipe	Diameter <i>M170</i>	Ga164		QPL-4 with CPT Stamp or pre-inspected by Central Lab with GDT Stamp				
		Thickness <i>M170</i>							
		Reinforcement Design <i>M170</i>							
	External Load Strength <i>T280</i>	OMR-INSP-86							
Portland Cement	Air Content <i>T137</i>	DOT-175 Ga175		QPL-3					
	Fineness <i>M85</i>								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Autoclave M85								
		Compressive Strength M85								
		Vicat T131								
		Chemical M85								
	Fly Ash	Fineness M295	DOT-175 Ga175		QPL-30					
		Activity M295								
		Soundness M295								
		Density M295								
		Chemical M295								
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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								
		Sand Equivalent GDT-63								
	Coarse Aggregate	Wash 200 T11	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.				
		Gradation T27								
	Steel Wire for Reinforcement	Size M32M	Reinforcement Test Report Ga166 GACERT	1 ft	Certified Mill Test Report	Random sampling at Manufacturer				
		Diameter M32M								
		Area M32M								
		Tensile Strength T244								
Yield Strength T244										
Area Reduction T244										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS						
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE								
Welded Steel Wire Fabric for Reinforcement	Bend Test M32M	Size M55M	Welded Wire Test Report Ga166 GACERT	1 ft ²	QPL-55	Random sampling at Manufacturer									
		Diameter M55M													
		Area M55M													
		Tensile Strength T244													
		Yield Strength T244													
		Area Reduction T244													
		Bend Test M55M													
		Weld Shear Strength M55M													
		Width M55M													
		Length M55M													
		Spacing M55M													
		Cylinders					Compressive Strength T22	Certification T152	3 ea.						
		Non-Reinforced Concrete Pipe													
		Physical Properties of Pipe					Diameter M86	GA164			QPL-4 with CPT stamp or pre-inspected by Central Lab with GDT stamp				
Thickness M86															
Absorption M86															
Permeability M86															
External Load Strength T280	OMR-INSP-86														
Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3											
	Fineness M85														
	Autoclave M85														
	Compressive Strength M85														
	Vicat T131														
Fly Ash	Chemical M85														
	Fineness M295	DOT-175 Ga175		QPL-30											
	Activity M295														
	Soundness M295														
	Density M295														
Chemical M295															
Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1,	QPL-1 Sources, 1 per month, per active										
	Wash -200 T11														

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Sand Equivalent GDT-63			except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Coarse Aggregate	Wash 200 T11 Gradation T27	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.			
	Corrugated Aluminum Alloy Underdrain Pipe	Diameter M196M	Misc. Ga164a		QPL-56 & pre-inspected with CMPT or GDT tags				
		Depth & Spacing of Corrugations M196M							
		Thickness M197M							
		Arch Dimensions M196M							
		Chemical M197M							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
	Corrugated Steel Underdrain Pipe	Diameter M36M	Misc. Ga164a		QPL-56 & pre-inspected with CMPT or GDT tags				
		Depth & Spacing of Corrugations M36M							
		Thickness M36M							
		Galvanization M218M							
	Corrugated Polyethylene Underdrain Pipe	Diameter M252M	Misc. Ga164a		QPL-51				
		Depth & Spacing of Corrugations M252M							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Thickness M252M								
		Stiffness ASTM D2412								
		Flattening M252M								
		Elongation M252M								
		Brittleness M252M								
		Flexibility M252M								
		Couplings M252M								
		Strength M252M								
	Smooth Lined Corrugated Polyethylene Culvert Pipe	Diameter M294M	Misc. Ga164a			QPL-51 & approval thermally branded by Plastic Pipe Technician				
		Depth & Spacing of Perforations M294M								
		Thickness M294M								
		Stiffness M294M								
		Flattening M294M								
		Cracking M294M								
		Brittleness M294M								
Fittings M294M										
574										
EDGE DRAINS	Corrugated Aluminum Alloy Slope Drain Pipe	Diameter M196M	Misc. Ga164a			QPL-56 & pre-inspected with CMPT or GDT tags				
		Depth & Spacing of Corrugations M196M								
		Thickness M197M								
		Arch Dimensions M196M								
		Chemical M197M								
		Tensile Strength T244								
		Yield Strength T244								
		Elongation T244								
	Reinforce Concrete Pipe									
	Physical Properties of Pipe	Diameter M170	Ga164			QPL-4 with CPT Stamp or pre-inspected by Central Lab with GDT Stamp				
		Thickness M170								
		Reinforcement Design M170								
		External Load Strength T280	OMR-INSP-86							
Portland Cement	Air Content T137	DOT-175 Ga175			QPL-3					

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Fineness <i>M85</i>							
		Autoclave <i>M85</i>							
		Compressive Strength <i>M85</i>							
		Vicat <i>T131</i>							
		Chemical <i>M85</i>							
	Fly Ash	Fineness <i>M295</i>	DOT-175 Ga175		QPL-30				
	Activity <i>M295</i>								
	Soundness <i>M295</i>								
	Density <i>M295</i>								
	Chemical <i>M295</i>								
	Fine Aggregate	Gradation <i>T27</i>	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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 <i>T11</i>								
	Sand Equivalent <i>GDT-63</i>								
	Coarse Aggregate	Wash 200 <i>T11</i>	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.			
	Gradation <i>T27</i>								
	Steel Wire for Reinforcement		Size <i>M32M</i>	Reinforce-ment Test Report Ga166	1 ft	Certified Mill Test Report	Random sampling at Manufacturer		
Diameter <i>M32M</i>									
Area <i>M32M</i>									
Tensile Strength <i>T244</i>									
Yield Strength <i>T244</i>									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Welded Steel Wire Fabric for Reinforcement	Area Reduction T244	Welded Wire Test Report Ga166	1 ft ²	QPL-55	Random sampling at Manufacturer			
		Bend Test M32M							
		Size M55M							
		Diameter M55M							
		Area M55M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M55M							
		Weld Shear Strength M55M							
		Width M55M							
		Length M55M							
		Spacing M55M							
	Cylinders	Compressive Strength T22	Certification T152	3 ea.					
	Non-Reinforced Concrete Pipe								
Physical Properties of Pipe	Diameter M86	Ga165		QPL-4 with CPT stamp or pre-inspected by Central Lab with GDT stamp					
	Thickness M86								
	Absorption M86								
	Permeability M86								
	External Load Strength T280	OMR-INSP-86							
Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3					
	Fineness M85								
	Autoclave M85								
	Compressive Strength M85								
	Vicat T131								
Chemical M85									
Fly Ash	Fineness M295	DOT-175 Ga175		QPL-30					
	Activity M295								
	Soundness M295								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Density M295							
		Chemical M295							
	Fine Aggregate	Gradation T27							
		Wash -200 T11							
		Sand Equivalent GDT-63	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.			
	Coarse Aggregate	Wash 200 T11							
		Gradation T27	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.			
	Fine Aggregate	Gradation T27							
		Sand Equivalent GDT-63	DOT-658 Ga658	20 lbs.	One per 1,500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	QPL-1 Sources, 1 per 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	One per Project		
	Coarse	Wash 200 T11	DOT-658 Ga658	45 lbs.	One per 1,500 tons	QPL-2 Sources, 1 per	One per Project		

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Aggregate	Gradation T27			based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.				
	Fly Ash	Fineness M295	DOT-175 Ga175		QPL-30					
		Activity M295								
		Soundness M295								
		Density M295								
		Chemical M295								
	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3					
		Fineness M85								
		Autoclave M85								
		Compressive Strength M85								
		Vicat T131								
		Chemical M85								
	Corrugated Polyethylene Underdrain Pipe	Diameter M252M	Misc. Ga164a		QPL-51					
		Depth & Spacing of Corrugations M252M								
		Thickness M252M								
		Stiffness ASTM D2412								
		Flattening M252M								
		Elongation M252M								
		Brittleness M252M								
		Flexibility M252M								
		Couplings M252M								
		Strength M252M								
	Drainage Aggregate	Gradation T27	DOT-658 Ga658		QPL-2, Sections A, B & C; QPL-2, Section D, 1 per 1,500 tons	QPL-2, Sections A, B & C, 1 per 20,000 tons				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Target Density GDT-59	Ga553	Average of 5 tests from 100 ft control strip	One per Source			Completed Course	
		Compaction GDT-59			One per mile		One per Project		
Hot Mix Asphaltic Concrete									
		Target Density GDT-59	Ga159-5 Ga387	Average of 5 tests from 100 ft control strip	One per Source				
		Compaction GDT-59	Ga553		One per mile		One per Project	Completed Course	
	Asphalt Cement	Dynamic Shear TP-5	DOT-504 Ga504	1 qt.	QPL-7	As per GSP-21		Storage Tank	
	Coarse Aggregate for Asphaltic Concrete	Wash 200 T11	DOT-658 Ga658	45 lbs.	QPL-2	As necessary		Stockpile	
		Gradation T27							
	Fine Aggregate for Asphaltic Concrete	Gradation T11 & T27	DOT-658 Ga658	20 lbs.	QPL-1	As necessary		Stockpile	
		Clay Lumps T1121							
		Sand Equivalent GDT-63							
		Mica Content							
	Mineral Filler	Gradation T11 & T27	DOT-168 GACERT	10 lbs.	QPL-81	One per 500 tons, per Type, per Source	One per Project	Silo	
	In-Place Material	Thickness Measurement GDT-42	DOT-176 Ga176		One per 1,000 ft, per 2 lanes	Observe 1 per 3 miles, per 2 lanes	Observe 1 per 3 miles, per 2 lanes	Completed Course	
	Hydrated Lime	Physical & Chemical Analysis M216-84	GACERT	1 qt.*	QPL-41	One per Quarter		Silo or Tanker	*air-tight container As required by SOP-17
		Gradation T219							
		Chemical T219							
	Plastic Filter Fabric - Non-Woven	Puncture Resistance ASTM D4833	Misc. GACERT		QPL-28				
		Grab Tensile Strength ASTM D4632							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Grab Elongation ASTM D4632								
		Flow Rate GDT-87								
576										
SLOPE DRAIN	Corrugated Aluminum Alloy Slope Drain Pipe	Diameter M196M	Misc. Ga164a		QPL-56 & pre-inspected with CMPT or GDT tags					
		Depth & Spacing of Corrugations M196M								
		Thickness M197M								
		Arch Dimensions M196M								
		Chemical M197M								
		Tensile Strength T244								
		Yield Strength T244								
		Elongation T244								
	Corrugated Steel Culvert Pipe	Diameter M36M	Misc. Ga164a		QPL-56 & pre-inspected with CMPT or GDT tags					
		Depth & Spacing of Corrugations M36M								
		Thickness M36M								
		Galvanization M218M								
	Smooth Lined Corrugated Polyethylene Culvert Pipe	Diameter M294M	Misc. Ga164a		QPL-51 & approval thermally branded by Plastic Pipe Technician					
		Depth & Spacing of Perforations M294M								
		Thickness M294M								
		Stiffness M294M								
		Flattening M294M								
		Cracking M294M								
		Brittleness M294M								
	Fittings M294M									
Polyvinyl Chloride (PVC) Profile Wall Drain Pipe	Diameter M304	Misc. Ga164a GACERT		Certified Mill Test Report						
	Depth & Spacing of Corrugation M304									
	Thickness M304									
	Stiffness M304									
	Flattening M304									
Elongation M304										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Brittleness <i>M304</i>							
		Flexibility <i>M304</i>							
		Couplings <i>M304</i>							
		Strength <i>M304</i>							
577									
METAL DRAIN INLETS	Asphaltic Concrete								
	Asphalt Cement	Dynamic Shear <i>TP-5</i>	DOT-504 Ga504	1 qt.	QPL-7	As per GSP-21		Storage Tank	
	Coarse Aggregate for Asphaltic Concrete	Wash 200 <i>T11</i>	DOT-658 Ga658	45 lbs.	QPL-2	As necessary		Stockpile	
		Gradation <i>T27</i>							
	Fine Aggregate for Asphaltic Concrete	Gradation <i>T11 & T27</i>	DOT-658 Ga658	20 lbs.	QPL-1	As necessary		Stockpile	
		Clay Lumps <i>T1121</i>							
		Sand Equivalent <i>GDT-63</i>							
		Mica Content							
	Mineral Filler	Gradation <i>T11 & T27</i>	DOT-168 GACERT	10 lbs.	QPL-81	One per 500 tons, per Type, per Source	One per Project	Silo	
	In-Place Material	Thickness Measurement <i>GDT-42</i>	DOT-176 Ga176		One per 1,000 ft, per 2 lanes	Observe 1 per 3 miles, per 2 lanes		Completed Course	
	Hydrated Lime	Physical & Chemical Analysis <i>M216-84</i>	GACERT	1 qt.*	QPL-41	One per Quarter		Silo or Tanker	*air tight container
		Gradation <i>T219</i>							As required by SOP-17
		Chemical <i>T219</i>							
	Complete Mixture	Extractions <i>T11, GDT-38, GDT-73, GDT-83 or GDT-125</i>	DOT-387 Ga387 GA159-5	Varies per Mix Type	Minimum 1 per 500 tons	Two QA samples per 5 days production or lots; 1 comparison sample per 10 days	One per 10 days of production or 8,000 tons	Truck or Roadway	AASHTO T308 (Method A)
		Stripping Test <i>GDT-56</i>		300 g	One per Extraction (Open-Graded Mixes only)			Same as Extraction	*For all Asphaltic Concrete "OGFC" & other Mixes where the additive is incorporated at the plant, test at frequency of 1 per extraction

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Compaction GDT-39, GDT-59 or GDT-73	DOT-386 Ga386	Core	Five per Lot*		One per 10 lots, per Mix, consisting of 5 individual comparison tests	After Compaction	Small quantities may be accepted with less Compaction tests. *Each test consists of 3 readings when Nuclear Gauge is used to determine Density.
Concrete									
	Fly Ash	Fineness M295	DOT-175 Ga175		QPL-30				
		Activity M295							
		Soundness M295							
		Density M295							
		Chemical M295							
	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3				
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
	Portland Pozzolan Cement	Air Content T137	DOT-175 Ga175		QPL-3				
		Fineness M240							
		Autoclave M240							
		Compressive Strength M240							
		Vicat T131							
	Sand-Cement Bag Rip Rap	Compressive Strength T22	Misc. GACERT	45 lbs.	Laboratory Mix Design				
		Moisture Content T134							
		Bag Material & Size							
Slope Drain Pipe									
	Corrugated Aluminum Alloy Pipe	Diameter M196M	Misc. Ga164a		QPL-56 & pre-inspected with CMPT or GDT tags				
		Depth & Spacing of Corrugations M196M							
		Thickness M197M							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS		
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE				
		Arch Dimensions M196M									
		Chemical M197M									
		Tensile Strength T244									
		Yield Strength T244									
		Elongation T244									
	Corrugated Steel Pipe	Diameter M26M	Misc. Ga164a			QPL-56 & pre-inspected with CMPT or GDT tags					
		Depth & Spacing of Corrugations M36M									
		Thickness M36M									
		Galvanization M218M									
	Smooth Lined Corrugated Polyethylene Pipe	Diameter M294M	Misc. Ga164a			QPL-51 & approval thermally branded by Plastic Pipe Technician					
		Depth & Spacing of Perforations M294M									
		Thickness M294M									
		Stiffness M294M									
		Flattening M294M									
		Cracking M294M									
		Brittleness M294M									
	Fittings M294M										
	Asphaltic Concrete Curb										
	When placed in conjunction with Pay Item in Section 400, and ingredients are sampled under that Item, no additional samples of AC, CA, FA, or Mineral Filler required.										
	Tack Coat	Specification Requirements T59	DOT-503 Ga503	1 gal.	QPL-7	One per Project		Before application			
Asphalt Cement	Dynamic Shear TP-5	DOT-504 Ga504	1 qt.	QPL-7	One per Project		Before application				
Mineral Filler	Gradation T11 & T27	GACERT	10 lbs.	QPL-81	One per 1,000 tons, per Type, per Source		Stock				
Completed Mix	Specification Requirements GDT-38 or GDT-83		25 lbs.	Two per week		One per Project	Truck or Roadway				
Fine Aggregate	Gradation T27	DOT-658 Ga658		QPL-2	As necessary						
	Sand Equivalent GDT-63										
Coarse Aggregate	Wash 200 T11	DOT-658 Ga658		QPL-2	As necessary						
	Gradation T27										
600											

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
CONTROL LOW STRENGTH FLOWABLE FILL	Concrete Ingredients								
	Portland Cement	Air Content T137	DOT-175 Ga175	10 lbs.	QPL-3	One per Quarter, per Source, per District		Stock	
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
		Chemical M85							
	Portland Pozzolan Cement	Air Content T137	DOT-175 Ga175						
		Fineness M240							
		Autoclave M240							
		Compressive Strength M240							
		Vicat T131							
		Chemical M240							
	Fly Ash	Physical & Chemical ASTM C311	DOT-175 Ga175	10 lbs.	QPL-30	One per Quarter, per Source, per District		Stock	
		Fineness M295							
		Activity M295							
		Soundness M295							
		Density M295							
		Chemical M295							
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 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 Source.		Stock or Conveyor Belt	
		Gradation T27							
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1,	QPL-2 Sources, 1 per month, per active		Stock or Conveyor Belt	
		Sand Equivalent GDT-63							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Wash 200 T11			except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	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 T26	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	
	Chemical Admixtures	Chemical Admixtures for Concrete M194	GACERT	1 qt.	QPL-14	One per 6 months, per Source, per District		Ready Mix Plant Stock	
	Deck Oil		GACERT	1 qt.	QPL-23	None		Stock	
602									
DOUBLEWALL PRECAST WALL	Complete Unit				Plant inspected by Central Lab Personnel or Certified Wall Panel Inspector				
	Backfill	Theoretical Density GDT-24 or GDT-7 & GDT-67	Ga409		As needed to control the work				
		In-Place Density GDT-21 or GDT-59	Ga553		One per day on continuous work		One per 20 days of wall placement, per Project	Completed Course	
		Gradation T27	DOT-658 Ga658		QPL-2	As needed			
	Joint Treatment								
	Plastic Filter Fabric – Woven	Tensile Strength ASTM D4632	Misc. GACERT		QPL-28				Independent Assurance: sample occasionally
		Bursting Strength ASTM D3786							
		Elongation ASTM D4632							
		Percent Open Area GDT-88							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Plastic Filter Fabric – Non-Woven	Puncture Resistance <i>ASTM D4833</i>	Misc. GACERT		QPL-28				Independent Assurance: sample occasionally
		Grab Tensile Strength <i>ASTM D4632</i>							
		Grab Elongation <i>ASTM D4632</i>							
		Flowrate <i>GDT-87</i>							
	Rubber Bearing Pads	Hardness <i>ASTM D2240</i>	Misc. GACERT						
	Preformed Cork	Recovery <i>ASTM D1752</i>	Misc. GACERT						
		Compression <i>ASTM D1752</i>							
		Extrusion <i>ASTM D1752</i>							
		HCI <i>ASTM D1752</i>							
	Bearing Pads	Dimensions	Misc. GACERT			Certified By Manufacturer & inspected by Office of Materials & Research			Before placement
		Compression Modulus							
		Shear Modulus							
		Tensile Strength <i>T244</i>							
		Heat Aging <i>ASTM D573</i>							
	Concrete	Cylinder <i>GDT-35 & T22</i>	DOT-319 T152						
Reinforced Concrete Pipe									
Physical Properties of Pipe	Diameter <i>M170</i>	Ga164			QPL-4 with CPT Stamp or pre-inspected by Central Lab with GDT Stamp				
	Thickness <i>M170</i>								
	Reinforcement Design <i>M170</i>								
	External Load Strength <i>T280</i>	OMR-INSP-86							
Portland Cement	Air Content <i>T137</i>	DOT-175 Ga175			QPL-3				
	Fineness <i>M85</i>								
	Autoclave <i>M85</i>								
	Compressive Strength <i>M85</i>								
	Vicat <i>T131</i>								
	Chemical <i>M85</i>								
Fly Ash	Fineness <i>M295</i>	DOT-175 Ga175			QPL-30				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Activity M295							
		Soundness M295							
		Density M295							
		Chemical M295							
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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							
		Sand Equivalent GDT-63							
	Coarse Aggregate	Wash 200 T11	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.			
		Gradation T27							
	Steel Wire for Reinforcement	Size M32M	Reinforcement Test Report Ga166	1 ft	Certified Mill Test Report	Random sampling at Manufacturer			
		Diameter M32M							
		Area M32M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
Welded Steel Wire Fabric for Reinforcement	Size M55M	Welded Wire Test Report Ga166	1 ft ²	QPL-55	Random sampling at Manufacturer				
	Diameter M55M								
	Area M55M								
	Tensile Strength T244								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M55M							
		Weld Shear Strength M55M							
		Width M55M							
		Length M55M							
		Spacing M55M							
	Cylinders	Compressive Strength T22	Certification T152	3 ea.					
Non-Reinforced Concrete Pipe									
Physical Properties of Pipe		Diameter M86	Ga164			QPL-4 with CPT stamp or pre-inspected by Central Lab with GDT stamp			
		Thickness M86							
		Absorption M86							
		Permeability M86							
		External Load Strength T280	OMR-INSP-86						
Portland Cement		Air Content T137	DOT-175 Ga175		QPL-3				
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
		Chemical M85							
Fly Ash		Fineness M295	DOT-175 Ga175		QPL-30				
		Activity M295							
		Soundness M295							
		Density M295							
		Chemical M295							
Fine Aggregate		Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1,	QPL-1 Sources, 1 per month, per active			
		Wash -200 T11							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Sand Equivalent GDT-63			except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Coarse Aggregate	Wash 200 T11	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.			
		Gradation T27							
Drainage									
	Aggregate for Underdrain	Gradation T27	DOT-658 Ga658		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 20,000 tons, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance test on materials delivered from Section D Sources.			
	Corrugated Aluminum Alloy Pipe	Diameter M196M	Misc. Ga164a		QPL-56 & Pre-inspected with CMPT or GDT tags				
		Depth & Spacing of Corrugations M196M							
		Thickness M197M							
		Arch Dimensions M196M							
		Chemical M197M							
		Yield Strength T244							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Corrugated Steel Pipe	Elongation T244	Misc. Ga164a		QPL-56 & pre-inspected with CMPT or GDT tags					
		Diameter M36M								
		Depth & Spacing of Corrugations M36M								
		Thickness M36M								
	Corrugated Plastic Pipe	Galvanization M218M	Misc. Ga164a		QPL-51					
		Diameter M252M								
		Depth & Spacing of Corrugations M252M								
		Thickness M252M								
		Stiffness ASTM D2412								
		Flattening M252M								
		Elongation M252M								
		Brittleness M252M								
	Flexibility M252M									
	Couplings M252M									
	Strength M252M									
	Reinforcing Steel									
	Steel Bars for Reinforcement		Number M31M	Reinforce-ment Test Report Ga166		QPL-12 & QPL-61				
			Weight M31M							
			Dimensions MM31							
			Deformation Spacing M31M							
Height & Gap M31M										
Tensile Strength T244										
Yield Strength T244										
Elongation T244										
Bend Test T285										
Chemical M31M										
Steel Wire for Reinforcement		Size M32M	Reinforce-ment Test Report Ga166		Certified Mill Test Report					
		Diameter M32M								
		Area M32M								
		Tensile Strength T244								
		Yield Strength T244								
		Area Reduction T244								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Welded Steel Wire Fabric for Reinforcement	Bend Test M32M	Welded Wire Test Report Ga166		QPL-55					
		Size M55M								
		Diameter M55M								
		Area M55M								
		Tensile Strength T244								
		Yield Strength T244								
		Area Reduction T244								
		Bend Test M55M								
		Weld Shear Strength M55M								
		Width M55M								
		Length M55M								
		Spacing M55M								
		Dowel Bars								Number M31M
	Weight M31M									
	Dimensions M31M									
	Deformation Spacing M31M*									
	Height & Gap M31M*									
	Tensile Strength T244									
	Yield Strength T244									
	Elongation T244									
Bend Test T285										
Chemical M31M										
Coating 853.08										
603										
RIP RAP	Rip Rap (Stone) from Unapproved Source	Soundness T104				Visual Inspection			Requires approval by Pit & Quarry	
	Rip Rap (Stone) from Approved Source				QPL-2	Visual Inspection				
	Stone Filter	Sand Equivalent GDT-63	DOT-658 Ga658							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	GUIDE FREQUENCY				LOCATION OR TIME OF SAMPLING	REMARKS
				SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
604 RETAINED EARTH WALL	Blanket	Soundness T104							
		Percent Wear T96							
		Gradation T27							
	Membrane Curing Compound				QPL-16 or pre-inspected by Central Lab Personnel				
	Portland Cement		Physical & Chemical Analysis M85	DOT-175 Ga175	20 lbs.	QPL-3			
			Air Content T137						
			Fineness M85						
			Autoclave M85						
			Compressive Strength M85						
			Vicat T131						
	Water	Physical & Chemical Analysis T26	Ga088	1 qt.*	One per unpotable Source		Enough in advance so results are know before use	*non-metal container	
	Fine Aggregate		Gradation T27	Ga658	20 lbs.	One per 500 tons based upon QPL-2, except for Section D, Stockpile Basis Sources; materials from Section D must be sampled.		Stock	
			Wash -200 T11						
			Portland Cement Reaction GDT-5						
	Plastic Filter Fabric		Woven Tensile Strength ASTM D4632	Misc. GACERT		QPL-28			
			Bursting Strength ASTM D3786						
Percent Open Area GDT-88									
Elongation ASTM D4632									
	Wall Panels		GACERT		QPL-9 Plant Shipping Report (OMR-122)				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Soil Reinforcing Mesh	ASTM A82	GACERT		Pre-inspected by Central Lab Personnel & serially numbered GDT tags attached				
	Attaching Devices	As Specified	GACERT		Certified Mill Test Report				Independent Assurance: sample occasionally
	Concrete	Compressive Strength GDT-35 & T22	DOT-319 T152	2 cylinders	See NOTE 1		Observe 1 set per 750 yd ³	During pouring	Cylinders to be broken in Branch or Central Lab
		NOTE 1: One set per each 50 yd ³ of each Class of Concrete placed daily for each structure, except for Concrete used in Bridge Curb, Handrail or Wall Coping. Two Concrete cylinders shall be fabricated for each cumulative 50 yd ³ or fraction thereof, of concrete placed per week in each structure. Cylinders shall not be fabricated at one structure to represent Concrete placed in another structure.							
		Air Content GDT-26 or GDT-32	DOT-168 T152	See NOTE 2	When cylinders are made		Observe 1 set per 750 yd ³	Placement site	Additional Slump test will be required when Water is added on Project
		Slump GDT-27							
		Mix Temperature GDT-122							
		NOTE 2: Air, Slump & Mix Temperature tests are all required when cylinders are made & as judged necessary to insure adequate controls. Additional tests are recommended at least every third load on Bridge Deck placement.							
	Joint Fillers	As Specified	GACERT		Certified Mill Test Report				Independent Assurance: sample occasionally
	Granular Backfill	Physical & Chemical Analysis As Specified	GACERT	45 lbs.	Approved by Central Lab Personnel			Prior to use	Requires approval by Pit & Quarry
		Theoretical Density GDT-24 or GDT-7				As needed to control the work			
		In-Place Density GDT-21 or GDT-59	DOT-553 Ga553		One per day on continuous work		One per 20 days of wall placement, per Project	Completed Course	
	Filter Fabric	As Specified	GACERT		QPL-28				
605									
GEORGIA STABILIZED EMBANKMENT	Wall Panels		GACERT		QPL-9 & Plant Shipping Report (OMR-122)				
	Backfill Stabilizing Mesh	ASTM A82	GACERT		Pre-inspected by Central Lab Personnel				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Steel Strap Connection	<i>As Specified</i>	GACERT	2 @ 24" for each size	Certified Mill Test Report & sampled by Central Lab Personnel					
	Concrete	Compressive Strength GDT-35 & T22	DOT-319 T152	2 cylinders	See NOTE 1		Observe 1 set per 750 yd ³	During pouring	Cylinders to be broken in Branch or Central Lab	
		NOTE 1: One set per each 50 yd ³ of each Class of Concrete placed daily for each structure, except for Concrete used in Bridge Curb, Handrail or Wall Coping. Two Concrete cylinders shall be fabricated for each cumulative 50 yd ³ or fraction thereof, of Concrete placed per week in each structure. Cylinders shall not be fabricated at one structure to represent Concrete placed in another structure.								
		Air Content GDT-26 or GDT-32	DOT-168 T152	See NOTE 2	When cylinders are made		Observe 1 set per 750 yd ³	Placement site	Additional Slump test will be required when Water is added on Project	
		Slump GDT-27								
		Mix Temperature GDT-122								
		NOTE 2: Air, Slump & Mix Temperature tests are all required when cylinders are made & as judged necessary to insure adequate controls. Additional tests are recommended at least every third load on bridge deck placement.								
	Joint Fillers	<i>As Specified</i>	GACERT		Certified Mill Test Report				Independent Assurance: sample occasionally	
	Backfill	Physical & Chemical Analysis <i>As Specified</i>		45 lbs.	Approved by Central Lab Personnel			Prior to use	Requires approval by Pit & Quarry	
		Theoretical Density GDT-24 or GDT-7				As needed to control the work				
		In-Place Density GDT-21 or GDT-59	DOT-553 Ga553		One per day on continuous work		One per 20 days of wall placement, per Project	Completed Course		
607										
RUBBLE MASONRY	Masonry Stone	Percent Wear T96	Misc.	100 lbs.	If not on QPL-2, 1 per Source			Stock		
		Soundness T104								
		Visual Inspection								
	Mortar Sand	Gradation T27	DOT-658 Ga658	20 lbs.	QPL-1		One per 10,000 yd ³ , per Source			
		Wash 200 T11								
	Portland Cement	Physical & Chemical Analysis M85 or M150, Type II	DOT-175 Ga175	20 lbs.		QPL-3				
		Air Content T137								
Fineness M85										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
		Chemical M85							
	Water	Physical & Chemical Analysis T26		1 qt.*	One per unpotable Source			Enough in advance so that results are known before use	*non-metal container
608									
BRICK MASONRY	Clay or Shale Brick	Specification Requirements M91, Grade MA		10 Bricks	One set per 50,000 bricks, per Source			Material delivered to Project	
	Concrete Brick	Specification Requirements ASTM C55		10 Bricks	One set per 50,000 bricks, per Source			Material delivered to Project	
	Brick	Size	Misc. GACERT						
		Absorption T32							
		Compressive Strength T32							
	Mortar Sand	Gradation T27	DOT-658 Ga658	20 lbs.	QPL-1	One per 10,000 yd ³ , per Source	Stockpile		
		Wash 200 T11							
		Organics T21							
		Mortar properties T71							
		Durability GDT-75							
	Portland Cement	Physical & Chemical Analysis M85 or M150, Type II	DOT-175 Ga175	20 lbs.	QPL-3				
		Air Content T137							
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
	Chemical M85								
	Water	Physical & Chemical Analysis T26	Ga088	1 qt.*	One per unpotable Source			Enough to advance so that results are known before use	*non-metal container
609									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS		
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE				
EARTH WALL REINFORCED	Wall Panels		GACERT		QPL-9 & Plant Shipping Report (OMR-122)						
	Reinforcing Tie Straps		GACERT	2 straps @ 24"	Certified Mill Test Report						
	Granular Backfill	Physical & Chemical Analysis <i>As Specified</i>			45 lbs.	Approved by Central Lab Personnel			Prior to use	Requires approval by Pit & Quarry	
		Theoretical Density <i>GDT-21 or GDT-59</i>					As needed to control the work				
		In-Place Density <i>GDT-21 or GDT-59</i>	DOT-553 Ga553			One per day on continuous work		One per 20 days of wall placement, per Project	Completed Course		
	Joint Fillers		GACERT		Certified Mill Test Report						
	Concrete	Compressive Strength <i>GDT-35 & T22</i>	DOT-319 T152		2 cylinders	See NOTE 1		Observe 1 set per 750 yd ³	During pouring	Cylinders to be broken in Branch or Central Lab	
		NOTE 1: One set per each 50 yd ³ of each Class of Concrete placed daily for each structure, except for Concrete used in Bridge Curb, Handrail or Wall Coping. Two Concrete cylinders shall be fabricated for each cumulative 50 yd ³ or fraction thereof, of Concrete placed per week in each structure. Cylinders shall not be fabricated at one structure to represent Concrete placed in another structure.									
		Air Content <i>GDT-26 or GDT-32</i>	DOT-168 T152		See NOTE 2	When cylinders are made		Observe 1 set per 750 yd ³	Placement site	Additional Slump tests will be required when Water is added on Project	
		Slump <i>GDT-27</i>									
Mix Temperature <i>GDT-122</i>											
NOTE 2: Air, Slump & Mix Temperature tests are all required when cylinders are made & as judged necessary to insure adequate controls. Additional tests are recommended at least every third load on bridge deck placement.											
Reinforcing Steel					QPL-12						
621											
CONCRETE BARRIER	Concrete Ingredients Agents										
	Portland Cement	Air Content <i>T137</i>	DOT-175 Ga175								
		Fineness <i>M85</i>									
		Autoclave <i>M85</i>									
		Compressive Strength <i>M85</i>									
		Vicat <i>T131</i>									
		Chemical <i>M85</i>									
	Portland	Air Content <i>T137</i>	DOT-175 Ga175								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Pozzolan Cement	Fineness M240								
		Autoclave M240								
		Compressive Strength M240								
		Vicat T131								
		Chemical M240								
	Fly Ash	Physical & Chemical ASTM C311	DOT-175 Ga175	10 lbs.	QPL-30	One per Quarter, per Source, per District				
		Fineness M295								
		Activity M295								
		Soundness M295								
		Density M295								
	Chemical M295									
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.				
		Sand Equivalent GDT-63								
	Coarse Aggregate	Wash 200 T11	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.				
		Gradation T27								
Water	Quality of Water to be Used in Concrete T26	Ga088	1 qt.*	One per unpotable Source, per month			Enough in advance so that results are known before use	*non-metal container		

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	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	
	Chemical Admixtures	Chemical Admixtures for Concrete M194	T152	1 qt.	QPL-14	One per 6 months, per Source, per District		Ready Mix Plant Stock	
	Deck Oil		GACERT						
	Steel Bars for Reinforcement	Number M31M	Reinforce-ment Test Report Ga166	2 pcs. @ 24" per size	QPL-12 & QPL-61	Random sampling at Fabricator			
		Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M							
		Height & Gap M31M							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Test T285							
	Chemical M31M								
Joint Fillers & Sealers									
	Preformed Joint Filler	M153 or M213	Misc. GACERT	10"	QPL-20			Stock	Sample in accordance with SOP-17
	Hot Pour Joint Sealers	Penetration GDT-62	Misc. GACERT	1 kit	Pre-inspected by Central Lab; 1 sample per shipment			Stock	
		Flow GDT-62							
		Resilience GDT-62							
		Bond GDT-62							
	Compatibility GDT-62								
	Elastomeric Polymer Type Joint Compound	Cone Penetration GDT-15	Misc. GACERT	1 kit	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment			Stock	
		Solubility GDT-15							
		Resilience GDT-15							
		Flow GDT-15							
	Bond GDT-15								
	Preformed Elastic Joint Sealer	Tensile Strength ASTM D412	Misc. GACERT	36"	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment			Stock	
		Elongation at Break ASTM D412							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Hardness ASTM D2240							
		Oven Aging ASTM D573							
		Oil Swell ASTM D471							
		Ozone Resistance ASTM D1149							
		Joint Sealer Recovery GDT-47							
		Compression/Deflection GDT-70							
	Water-Blown Urethane Joint Filler	Specification 833.05	Misc. GACERT		Certified Mill Test Report				
	Silicone Sealant	Tensile Stress ASTM D412	Misc. GACERT		QPL-66 <u>or</u> 1 sample per batch, per Type		Stock		
		Hardness ASTM D2240							
		Bond GDT-106							
		Tack Free Time GDT-106							
		Extrusion GDT-106							
		Non-Volatile GDT-106							
		Specific Gravity ASTM D792							
		Adhesion GDT-106							
		Resistance ASTM C793							
	Bond Breakers – Rods	Density ASTM D1622	Misc. GACERT	6 ft	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment		Stock		
		Tensile Strength ASTM D1623							
		Water Absorption ASTM C1061							
	Bond Breakers – Tape	Thickness	Misc. GACERT		Certified Mill Test Report				
	Neoprene for Bridge Deck Joint Seal	Specification 833.07	Misc. GACERT		Certified Mill Test Report				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Ethylene Propylene Diene Monomer for Bridge Deck Joint Seals	Specification 833.08	Misc. GACERT		Certified Mill Test Report					
	Polyurethane Sealant for Inductive Loops	Hardness ASTM D2240	Misc. GACERT		QPL-75					
		Tensile Strength ASTM D412								
		Elongation ASTM D412								
		Flexibility								
	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 or fraction thereof placed daily, except for Concrete barrier placed with slip form equipment. Two cylinders shall be fabricated for each 150 yd ³ or fraction thereof placed daily.								
		Air GDT-26 or GDT-32								
		Slump GDT-27		See NOTE 2			Observe 1 set per 1500 yd ³		During pouring operation	
		Mix Temperature GDT-122								
	NOTE 2: Air, Slump & Mix Temperature tests are required when cylinders are made & as judged necessary to insure adequate control.									
622										
PRECAST TEMPORARY BARRIER	Complete Unit		GACERT		QPL-9, Plant Shipping Report (OMR-122) & Official Plant Stamp					
	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3					
		Fineness M85								
		Autoclave M85								
		Compressive Strength M85								
		Vicat T131								
	Chemical M85									
Portland	Air Content T137	DOT-175 Ga175								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Pozzolan Cement	Fineness M240								
		Autoclave M240								
		Compressive Strength M240								
		Vicat T131								
		Chemical M240								
	Fly Ash	Physical & Chemical ASTM C311	DOT-175 Ga175	10 lbs.	QPL-30	One per Quarter, per Source, per District		Stock		
		Fineness M295								
		Activity M295								
		Soundness M295								
		Density M295								
	Chemical M295									
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.				
		Sand Equivalent GDT-63								
	Coarse Aggregate	Wash 200 T11	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.				
		Gradation T27								
Water	Quality of Water to be Used in Concrete T26	Ga088	1 qt.*	One per unpotable Source, per month			Enough in advance so that results are known before use	*non-metal container		

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	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	
	Chemical Admixtures	Chemical Admixtures for Concrete M194	GACERT	1 qt.	QPL-14	One per 6 months, per Source, per District			
	Steel Bars for Reinforcement	Number M31M	Reinforce-ment Test Report Ga166 GACERT		QPL-12 & QPL-61				
Weight M31M									
Dimensions M31M									
Deformation Spacing M31M									
Height & Gap M31M									
Tensile Strength T244									
Yield Strength T244									
Elongation T244									
Bend Test T285									
Chemical M31M									
Misc. Hardware		GACERT		Accepted by Project Personnel based on Visual Inspection			Stock		
Concrete	Strength GDT-35 & T22	DOT-319 T152	2 cylinders	One set for each day's placement			During pouring operation	A sufficient number of cylinders shall be fabricated for determination of handling & shipping requirements	
	Air Content GDT-35			Air, Slump & Mix Temperature tests are made as judged necessary to insure adequate control					
	Slump GDT-27								
	Mix Temperature GDT-122								
623									
PNEUMATICALLY APPLIED CONCRETE	Concrete Structures								
	Portland Cement	Air Content T137	DOT-175 Ga175	10 lbs.	QPL-3	One per Quarter, per Source, per District		Stock	
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	GUIDE FREQUENCY				LOCATION OR TIME OF SAMPLING	REMARKS
				SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Portland Pozzolan Cement	Vicat T131	DOT-175 Ga175						
		Chemical M85							
		Air Content T137							
		Fineness M240							
		Autoclave M240							
		Compressive Strength M240							
		Vicat T131							
	Chemical M240								
	Fly Ash	Physical & Chemical ASTM C311	DOT-175 Ga175	10 lbs.	QPL-30	One per Quarter, per Source, per District		Stock	
		Fineness M295							
		Activity M295							
		Soundness M295							
		Density M295							
	Chemical M295								
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 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.		Stock or Conveyor Belt	
Gradation T27									
Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.		Stock or Conveyor Belt		
	Sand Equivalent GDT-63								
	Wash 200 T11								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Water	Quality of Water to be Used in Concrete T26	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	GACERT	1 qt.	QPL-13	One per 6 months, per Source, per District		Ready Mix Plant Stock	
	Chemical Admixtures	Chemical Admixtures for Concrete M194	GACERT	1 qt.	QPL-14	One per 6 months, per Source, per District		Ready Mix Plant Stock	
	Deck Oil		GACERT	1 qt.	QPL-23	None		Stock	
	Steel Bars for Reinforcement	Number M31M	Reinforce-ment Test Report Ga166 GACERT	2 pcs. @ 24" per size	QPL-12 & QPL-61	Random sampling at Fabricator			
		Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M							
		Height & Gap M31M							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Test T285							
	Chemical M31M								
	Steel Wire for Reinforcement	Size M32M	Reinforce-ment Test Report Ga166 GACERT		Certified Mill Test Report				
		Diameter M32M							
		Area M32M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M32M							
	Welded Steel Wire Fabric for Reinforcement	Size M55M	Welded Wire Test Report Ga166 GACERT		QPL-55				
		Diameter M55M							
		Area M55M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M55M							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Weld Shear Strength M55M							
		Width M55M							
		Length M55M							
		Spacing M55M							
	Permanent Steel Bridge Deck Forms	ASTM A446 & ASTM A525	GACERT		Certified Mill Test Report				
	Dowel Bars	Number M31M	Reinforce-ment Test Report Ga166 GACERT						
		Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M*							
		Height & Gap M31M*							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Test T285							
		Chemical M31M							
	Coating 853.08			QPL-43					
	Damproofing or Waterproofing Membrane	Specification Requirements M115, M118 or M121	GACERT	1 qt.	One per Type, per Source			Before application	
	Curing Agent	Specification for Liquid Membrane Curing M148	DOT-168 GACERT		QPL-16			Stock	
	Concrete	Compressive Strength GDT-35 & T22	DOT-319 T152	2 cylinders	See NOTE 1		Observe 1 set per 750 yd ³	During pouring	Cylinders to be broken in Branch or Central Lab
		NOTE 1: One set per each 50 yd ³ of each Class of Concrete placed daily for each structure, except for Concrete used in Bridge Curb, Handrail or Wall Coping. Two Concrete cylinders shall be fabricated for each cumulative 50 yd ³ or fraction thereof, of Concrete placed per week in each structure. Cylinders shall not be fabricated at one structure to represent Concrete placed in another structure.							
Air Content GDT-26 or GDT-32				See NOTE 2	When cylinders are made		Observe 1 set per 750 yd ³	Placement site	Additional Slump test will be required when Water is added on Project
	Slump GDT-27								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Mix Temperature GDT-122							
		NOTE 2: Air, Slump & Mix Temperature tests are all required when cylinders are made & as judged necessary to insure adequate controls. Additional tests are recommended at least every third load on bridge deck placement.							
	Concrete for Pipe Head-Walls, Spillways, Slope Drains, Highway Signs Guardrails, Misc. Drainage Structures, Highway Light, Fence	Air Content GDT-26 & GDT-35	T152	See NOTE				During pouring operation	
		Slump GDT-27							
		NOTE: Acceptance of Concrete for these items is based upon results of Slump & Air tests & the properly documented DOT-319. No cylinders are required. Air & Slump tests are performed as judged necessary to insure adequate control.							
	Silicone Sealant	Tensile Stress ASTM D412	Misc. GACERT		QPL-66				
		Durometer ASTM D2240							
		Bond GDT-106							
		Tack Free Time GDT-106							
		Extrusion GDT-106							
		Non-Volatile GDT-106							
		Specific Gravity ASTM D792							
		Adhesion GDT-106							
		Resistance ASTM C793							
	Epoxy Adhesive	Pot Life GDT-58	Misc. GACERT	1 kit	QPL-15 or 1 sample, per batch, per Type			Stock	
		Bond Strength GDT-58							
		Shelf Life							
		Viscosity ASTM D1084							
		Specific Gravity							
		Condition							
	Graffiti-Proof Coating		GACERT		QPL-42				
	Preformed Joint Filler	M153 or M213	Misc. GACERT	10 in.	QPL-20			Stock	Sample in accordance with SOP-17

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Hot Poured Joint Sealer	Penetration GDT-62	Misc. GACERT	1 kit	Pre-inspected by Central Lab; 1 sample per shipment			Stock	
		Flow GDT-62							
		Resilience GDT-62							
		Bond GDT-62							
		Compatibility GDT-62							
	Elastomeric Polymer Type Joint Compound	Cone Penetration GDT-15	Misc. GACERT	1 kit	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment			Stock	
		Solubility GDT-15							
		Resilience GDT-15							
		Flow GDT-15							
	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3				
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
	Fine Aggregate	Gradation T27	DOT-658 Ga658		One per 500 tons based upon QPL-1, 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.			
		Sand Equivalent GDT-63							
	Coarse	Wash 200 T11	DOT-658 Ga658		One per 1,500 tons	QPL-2 Sources, 1 per			

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Aggregate	Gradation T27			based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.				
	Welded Steel Wire for Reinforcement	Size M55M	Welded Wire Test Report Ga166 GACERT		QPL-55					
		Diameter M55M								
		Area M55M								
		Tensile Strength T244								
		Yield Strength T244								
		Area Reduction T244								
		Bend Test M55M								
		Weld Shear Strength M55M								
		Width M55M								
		Length M55M								
	Spacing M55M									
624										
SOUND BARRIERS	Concrete Masonry Units									
		Moisture Content ASTM C90	Misc. GACERT							
		Compressive Strength ASTM C90								
		Water Absorption ASTM C90								
		ASTM C129		5 blocks	One set per 25,000 blocks, per size, per Source			Stock		
	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3					
		Fineness M85								
		Autoclave M85								
		Compressive Strength M85								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS		
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE				
	Fine Aggregate	Vicat T131	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.					
		Chemical M85									
	Gradation T27										
	Sand Equivalent GDT-63										
	Coarse Aggregates	Wash 200 T11		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.		
		Gradation T27									
	Steel Panels	Thickness ASTM A446		Misc. Ga166 GACERT				Certified Mill Test Report			
		Yield Strength T244									
		Tensile Strength T244									
		Elongation T244									
Chemical ASTM A653											
Galvanization ASTM A653											
Bend Test ASTM A653											
Flatness ASTM A653											
Steel Posts	ASTM A36	Misc. Ga166 GACERT		Pre-inspected by Central Lab Personnel & GDT stamped							
Precast Concrete Panels											
Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Fineness M85								
		Autoclave M85								
		Compressive Strength M85								
		Vicat T131								
		Chemical M85								
	Fine Aggregate	Gradation T27 Sand Equivalent GDT-63	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.				
	Coarse Aggregate	Wash 200 T11 Gradation T27	DOT-658 Ga658	35 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.				
	Steel Bars for Reinforcement	Number M31M	Reinforcement Test Report Ga166			QPL-12 & QPL-61				
		Weight M31M								
		Dimensions M31M								
		Deformation Spacing M31M								
		Height & Gap M31M								
		Tensile Strength T244								
		Yield Strength T244								
		Elongation T244								
Bend Test T285										
Chemical M31M										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Steel Wire for Reinforcement	Size M32M	Reinforce-ment Test Report Ga166		Certified Mill Test Report				
		Diameter M32M							
		Area M32M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M32M							
	Galvanized Steel Piling	Thickness	Misc. Ga166		QPL-44 & pre-inspected by Central Lab Personnel with GDT stamp				
		Dimensions							
		Chemical							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Weight							
		Certification							
		Charpy ASTM E23							
		Hardness							
		Galvanization M111							
	Weathering Steel Piling	Thickness	Misc. Ga166 GACERT		QPL-44				
		Dimensions							
		Chemical ASTM A588							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Weight							
		Certification							
	Charpy ASTM E23								
	Elastomeric Bearing Pads	Hardness ASTM D2240	Misc. GACERT		Certified Mill Test Report				
Tensile Strength ASTM D412									
Elongation ASTM D412									
Heat Resistance ASTM D573									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Compression Set ASTM D395							
		Brittleness ASTM D746							
		Dimensions							
		Laminate Thickness							
		Tensile Strength M183							
		Yield Strength M183							
		Elongation M183							
Treated Timber Panels									
	Portland Cement	Air Content T137	DOT-175 Ga175						
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
		Chemical M85							
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.			
		Sand Equivalent GDT-63							
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 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.			
		Gradation T27							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Treated Timber	Certification	GACERT		Pre-inspected by authorized agency with AWW stamp				
	Bolts & Washers	Certification	GACERT		Certified Mill Test Report				
	Pile	Certification	GACERT						
Masonry Coated Polystyrene Panels									
		<i>As Specified</i>	GACERT		Certified Mill Test Report & inspected by Central Lab Personnel				
	Welded Steel Wire Fabric for Reinforcement	Size M55M	Welded Wire Test Report Ga166 GACERT		QPL-55				
		Diameter M55M							
		Area M55M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M55M							
		Weld Shear Strength M55M							
		Width M55M							
		Length M55M							
	Spacing M55M								
	Foam	Density	GACERT						
		Thickness							
	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3				
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
	Chemical M85								
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons	QPL-1 Sources, 1 per			

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Sand Equivalent GDT-63			based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Protective Color Coating	As Specified	GACERT	1 gal.	QPL-17				
	Other Wall Types	Certification	GACERT						
626									
MECHANICALLY STABILIZED EMBANKMENT RETAINING WALLS	Reinforcing Strips	Charpy ASTM E23	Misc. GACERT		Certified Mill Test Report				
		Dimensions							
		Yield Strength ASTM A709							
		Tensile Strength ASTM A709							
		Elongation ASTM A709							
		Reduction of Area ASTM A709							
		Hardness ASTM A709							
		Chemical ASTM A709							
	Reinforcing Mesh	Size ASTM A185	Welded Wire Test Report GACERT		Pre-inspected by Central Lab Personnel & serially numbered GDT tag attached				
		Diameter ASTM A185							
		Area ASTM A185							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test ASTM A185							
Weld Shear Strength ASTM A185									
Width ASTM A185									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Length <i>ASTM A185</i>								
		Spacing <i>ASTM A185</i>								
	Connecting Devices	<i>As Specified</i>	GACERT		Certified Mill Test Report				Independent Assurance: sample occasionally	
	Fasteners	Chemical <i>ASTM A325</i>	Misc. GACERT							
		Yield Strength <i>ASTM A325</i>								
		Tensile Strength <i>ASTM A325</i>								
		Elongation <i>ASTM A325</i>								
		Reduction of Area <i>ASTM A325</i>								
		Hardness <i>ASTM A325</i>								
		Length								
		Diameter								
		Thread Class								
		Galvanization <i>ASTM A153</i>								
	Attachments	Size <i>ASTM A82</i>	Reinforce-ment Test Report GACERT							
		Diameter <i>ASTM A82</i>								
		Area <i>ASTM A82</i>								
		Tensile Strength <i>T244</i>								
		Yield Strength <i>T244</i>								
		Area Reduction <i>T244</i>								
		Bend Test <i>ASTM A82</i>								
		Galvanization <i>ASTM A123</i>								
	Concrete									
		Compressive Strength <i>GDT-35 & T22</i>	Misc. T152							
	Portland Cement	Air Content <i>T137</i>	DOT-175 Ga175		QPL-3					
		Fineness <i>M85</i>								
		Autoclave <i>M85</i>								
		Compressive Strength <i>M85</i>								
		Vicat <i>T131</i>								
		Chemical <i>M85</i>								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.				
		Sand Equivalent GDT-63								
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 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.				
		Gradation T27								
	Mechanically Stabilized Embankment	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					
		Bursting Strength ASTM D3786								
		Elongation ASTM D4632								
		Percent Open Area GDT-88								
Plastic Filter Fabric – Non-Woven	Puncture Resistance ASTM D4833	Misc. GACERT		QPL-28						
	Grab Tensile Strength ASTM D4632									
	Grab Elongation ASTM 4632									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Flowrate GDT-87							
	Bearing Pads	Dimensions	Misc. GACERT						
		Hardness ASTM D2240							
	Granular Backfill	Physical & Chemical Analysis As Specified	DOT-658 Ga658		Approved by Central Lab Personnel			Prior to use	Requires approval by Pit & Quarry
	Coating for Soil Reinforcing Devices	Determination of Zinc Coating Thickness Gauge GDT-82	GACERT				Occasionally*		*Marginal failing results from Thickness Gauge, submit sample for further analysis. Sampled by Independent Assurance Personnel.
		Epoxy Coated Systems							Sample in accordance with SOP-17
	Wall Panels				QPL-9, Plant Shipping Report (OMR-122) & Official Plant Stamp				
633									
MODIFICATION OF EXISTING SIGNS	Signs	Certification	GA550		QPL-80; pre-inspected by Central Lab Personnel & GDT stamped or Approved decal on back of sign				
	Aluminum Sign Blanks	Chemical ASTM B209	Misc. GACERT		Certified Mill Test Report				
		Thickness							
		Dimensions							
		Shape							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Diameter Factor ASTM B209							
		Hardness ASTM B241							
	Shear Strength ASTM B565								
	Extruded Aluminum Sign Panels								
		Chemical ASTM B221	Misc. GACERT		Certified Mill Test				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Thickness			Report				
		Dimensions							
		Tensile Strength ASTM B557							
		Yield Strength ASTM B557							
		Elongation ASTM B557							
		Shape							
	Accessories	Chemical	Misc. GACERT		Certified Mill Test Report				
		Length							
		Thread Grade							
		Yield Strength T244							
		Tensile Strength T244							
		Elongation T244							
		Reduction of Area T244							
	Reflective Sheeting	Specific Intensity M268	Misc. GACERT		QPL-29				
		Weatherometer ASTM G23							
		Color M268							
	Silk Screen Paint	Color	GACERT		Certified Mill Test Report				
		Dry Time							
		Certification							
	Steel Sign Posts	Thickness Section 911.01	Misc. Ga166 GACERT		QPL-35				
		Dimensions Section 911.01							
		Chemical Section 911.01							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Weight Section 911.01							
		Certification							
		Hardness ASTM A370							
Galvanization Section 911.01									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Bolt Hole Size & Spacing Section 911.01							
	Structural Shape Post	Charpy ASTM E23	Misc. Ga166 GACERT		QPL-59, pre-inspected by Central Lab Personnel & GDT stamped				
		Thickness							
		Yield Strength T244							
		Tensile Strength T244							
		Elongation T244							
		Reduction of Area T244							
		Hardness ASTM A370							
		Chemical ASTM A709							
		Galvanization ASTM A123							
	Aluminum Delineator Post	Chemical ASTM B221	Misc. Ga166 GACERT		Certified Mill Test Report				
		Thickness As Specified							
		Dimensions As Specified							
		Tensile Strength ASTM B557							
		Yield Strength ASTM B557							
		Elongation ASTM B557							
	Bolt Hole Size & Spacing Section 911.04.B.2								
	Wood Delineator Post	Dimensions	Misc. Ga166 GACERT		QPL-50 & pre-inspected by Authorized Agency with AWW stamp				
		Grade							
		Preservative Treatment							
		Certification							
	Flexible Delineator Post	Dimensions Section 911.04.D	Misc. Ga166 GACERT		QPL-69				
		NTPEP Certification Section 911.04.D							
		Impact Test Section 911.04.D							
	Steel Posts & Arms for Mast Arm Assembly	Chemical ASTM A53	Misc. Ga166 GACERT		QPL-52, pre-inspected by Central Lab Personnel & GDT stamped				
		Yield Strength T244							
		Tensile Strength T244							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Elongation T244							
		Bending ASTM A53							
		Flattening ASTM A53							
		Non-Destructive Electric Test ASTM A53							
		Weight							
		Diameter							
		Thickness							
		Finish							
		Appearance							
	Misc. Fittings	Specification Requirements	GACERT					Stock	
	Steel Bolts, Nuts & Washers	Chemical ASTM F568	Misc. Ga166 GACERT		Certified Mill Test Report				
		Yield Strength ASTM F606							
		Tensile Strength ASTM F606							
		Elongation ASTM F606							
		Reduction of Area ASTM F606							
		Hardness ASTM F606							
		Length							
		Diameter							
	Thread Class								
		Galvanization ASTM A90 or ASTM E376							
	Guy Wires	Diameter ASTM A475	Misc. GACERT		QPL-72				
		Number of Wires ASTM A475							
		Weight ASTM A475							
		Breaking Strength ASTM A475							
		Elongation ASTM A475							
		Galvanization ASTM A475							
		Ductility ASTM A475							
	Center Mount	Seal Test Section 916	Misc. GACERT	50 of ea.	Pre-inspected by Central Lab Personnel with				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS		
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE				
	Reflector	Heat Resistance Section 916	Misc. GACERT	color	GDT stamp						
		Specific Intensity Section 916									
	Demountable Reflective Characters	Chemical		Misc. GACERT	QPL-80						
		Thickness									
		Dimensions									
		Shape									
		Tensile Strength T244									
		Yield Strength T244									
		Elongation T244									
		Bend Diameter Factor ASTM B209									
		Hardness ASTM B241									
		Shear Strength ASTM B565									
	Piling										
	Prestressed Concrete			GACERT		QPL-9, Plant Shipping Report (OMR-122) & Official Plant Stamp; Visual Inspection by Project Personnel					
Treated Timber Piles	Certification	Misc. GACERT		QPL-50, pre-inspected by Authorized Agency & AWW Stamp							
Preservative Treatment	Certification	Misc. GACERT		QPL-50 & pre- inspected by Authorized Agency							
Aluminum Powder	Fineness ASTM D480	Misc. GACERT									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Self-Lubricating Bronze Bearing & Expansion Plates & Bushings	Certification	Misc. GACERT		Certified Mill Test Report				
	Paint	Pigment ASTM D2371	Misc. GACERT	1 qt.	QPL-46 (Systems IV & V): pre-inspected by Central Lab Personnel & GDT stamped QPL-54 & QPL-73 (System VI): <u>not</u> GDT stamped				
		Non-Volatile Vehicle							
		Grind							
		Viscosity ASTM D562							
		Dry Time ASTM D711							
		Percent Volatile							
		Weight per Gallon ASTM D1475							
	Welded & Seamless Steel Pile	Color	Misc. Ga165P		QPL-44 & Certified Mill Test Report				
		Certification							
		Thickness							
		Chemical ASTM A252							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
	Fluted Steel Shell Pile	Diameter	Misc. Ga165P		QPL-44 & Certified Mill Test Report				
		Weight							
		Yield Strength T244							
		Certification							
	Steel H-Pile	Thickness	Misc. Ga165P		QPL-44 & Certified Mill Test Report				
		Charpy ASTM E23							
		Yield Strength ASTM A370							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS		
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE				
		Tensile Strength <i>ASTM A370</i>									
		Elongation <i>ASTM A370</i>									
		Reduction of Area <i>ASTM A370</i>									
		Hardness <i>ASTM A370</i>									
		Chemical <i>ASTM A709</i>									
		Certification									
	Steel Bolts, Nuts & Washers		Chemical <i>ASTM F568</i>	Misc. GACERT		Certified Mill Test Report					
			Yield Strength <i>ASTM F606</i>								
			Tensile Strength <i>ASTM F606</i>								
			Elongation <i>ASTM F606</i>								
			Reduction of Area <i>ASTM F606</i>								
			Hardness <i>ASTM F606</i>								
			Length								
			Diameter								
			Thread Class								
			Galvanization <i>ASTM A90 or ASTM E376</i>								
	Aluminum Alloy Sheet & Plate		Chemical	Misc. GACERT		Certified Mill Test Report					
			Thickness								
			Dimensions								
			Tensile Strength <i>T244</i>								
			Yield Strength <i>T244</i>								
Elongation <i>T244</i>											
Bend Diameter Factor <i>ASTM B209</i>											
Hardness <i>ASTM B241</i>											
Shear Strength <i>ASTM B565</i>											
Steel H-Piling		Charpy <i>ASTM E23</i>	Misc. Ga165P		QPL-44						
		Thickness									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Yield Strength <i>ASTM A370</i>							
		Tensile Strength <i>ASTM A370</i>							
		Elongation <i>ASTM A370</i>							
		Reduction of Area <i>ASTM A370</i>							
		Hardness <i>ASTM A370</i>							
		Chemical <i>ASTM A370</i>							
		Certification							
	Concrete								
		Compressive Strength <i>T22</i>	Misc. <i>T152</i>						
	Portland Cement	Air Content <i>T137</i>	DOT-175 Ga175		QPL-3				
		Fineness <i>M85</i>							
		Autoclave <i>M85</i>							
		Compressive Strength <i>M85</i>							
		Vicat <i>T131</i>							
		Chemical <i>M85</i>							
	Fine Aggregate	Gradation <i>T27</i>	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.			
		Sand Equivalent <i>GDT-63</i>							
	Coarse	Wash 200 <i>T11</i>	DOT-658 Ga658	35 lbs.	One per 1,500 tons	QPL-2 Sources, 1 per			

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Aggregate	Gradation T27			based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Paints	Pigment ASTM D2371	Misc. GACERT	1 qt.	Pre-inspected by Central Lab Personnel & GDT stamped				
		Non-Volatile Vehicle							
		Grind							
		Viscosity ASTM D562							
		Dry Time ASTM D711							
		Percent Volatile							
		Weight per Gallon ASTM D1475							
		Color							
	Certification								
634									
MONUMENTS & ROAD MARKERS	Concrete Right-of-way Markers	Certification	Misc. GACERT		QPL-4 with CPT stamp or pre-inspected by Central Lab with GDT stamp				
	Concrete								
		Compressive Strength T22	Misc. T152						
	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3				
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
	Chemical M85								
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons	QPL-1 Sources, 1 per			

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Sand Equivalent GDT-63			based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Coarse Aggregate	Wash 200 T11 Gradation T27	DOT-658 Ga658	35 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.			
	Steel Bars for Reinforcement	Number M31M Weight M31M Dimensions M31M Deformation Spacing M31M Height & Gap M31M Tensile Strength T244 Yield Strength T244 Elongation T244 Bend Test T285 Chemical M31M	Reinforcement Test Report Ga166	2 pcs. @ 24"	QPL-12 & QPL-61	Random sampling at Manufacturer			
	Plates & Arrows, etc.				Job inspected (no sample or report required)				
635									
BARRICADES	Lumber & Posts								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Lumber & Timber	Certification	Misc. GACERT		QPL-50 & pre-inspected by Authorized Agency with AWW stamp				
	Preservative Treatment	Certification	Misc. GACERT						
	Paints	Pigment ASTM D2371	Misc. GACERT	1 qt.	Pre-inspected by Central Lab Personnel & GDT stamped				
		Non-Volatile Vehicle							
		Grind							
		Viscosity ASTM D562							
		Dry Time ASTM D711							
		Percent Volatile							
		Weight per Gallon ASTM D1475							
	Reflective Sheeting	Specific Intensity M268	Misc. GACERT		QPL-29				
		Weatherometer ASTM G23							
		Color M268							
	636								
HIGHWAY SIGNS	Signs	Certificate	Misc. Ga550 GACERT		QPL-80, pre-inspected by Central Lab Personnel & GDT stamped or Approved decal on back of sign				
	Aluminum Sign Blanks	Chemical ASTM B209	Misc. Ga550 GACERT		Certified Mill Test Report				
		Thickness							
		Dimensions							
		Shape							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Diameter Factor ASTM B209							
	Hardness ASTM B241								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		

		Shear Strength <i>ASTM B565</i>							
Extruded Aluminum Sign Panels									
		Chemical <i>ASTM B221</i>	Misc. Ga550 GACERT		Certified Mill Test Report				
		Thickness							
		Dimensions							
		Tensile Strength <i>ASTM B557</i>							
		Yield Strength <i>ASTM B557</i>							
		Elongation <i>ASTM B557</i>							
		Shape							
Accessories		Chemical	Misc. Ga550 GACERT		Certified Mill Test Report				
		Length							
		Thread Grade							
		Yield Strength <i>T244</i>							
		Tensile Strength <i>T244</i>							
		Elongation <i>T244</i>							
		Reduction of Area <i>T244</i>							
		Hardness							
Reflective Sheeting		Specific Intensity <i>M268</i>	Misc. Ga550 GACERT		QPL-29				
		Weatherometer <i>ASTM G23</i>							
		Color <i>M268</i>							
Silk Screen Paint		Color			Certified Mill Test Report				
		Dry Time							
		Certification							
Steel Sign Posts		Thickness <i>Section 911.01</i>	Misc. Ga550 GACERT		QPL-35				
		Dimensions <i>Section 911.01</i>							
		Chemical <i>Section 911.01</i>							
		Tensile Strength <i>T244</i>							
		Yield Strength <i>T244</i>							
		Elongation <i>T244</i>							
		Weight <i>Section 911.01</i>							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Certification							
		Hardness ASTM A370							
		Galvanization Section 911.01							
		Bolt Hole Size & Spacing Section 911.01							
	Structural Shape Post	Charpy ASTM E23	Misc.		QPL-59, pre-inspected by Central Lab Personnel & GDT stamped				
		Thickness							
		Yield Strength T244							
		Tensile Strength T244							
		Elongation T244							
		Reduction of Area T244							
		Hardness ASTM A370							
		Chemical ASTM A709							
		Galvanization ASTM A123							
	Aluminum Delineator Post	Chemical ASTM B221	Misc. Ga550 GACERT		Certified Mill Test Report				
		Thickness As Specified							
		Dimensions As Specified							
		Tensile Strength ASTM B557							
		Yield Strength ASTM B557							
		Elongation ASTM B557							
		Bolt Hole Size & Spacing Section 911.04.B.2							
	Wood Delineator Post	Dimensions	Misc. Ga550 GACERT		QPL-50 & pre-inspected by Authorized Agency with AWW stamp				
		Grade							
		Preservative Treatment							
		Certification							
	Flexible Delineator Post	Dimensions Section 911.04.D	Misc. Ga550 GACERT		QPL-69				
		NTPEP Certification Section 911.04.D							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Impact Test Section 911.04.D								
	Steel Posts & Arms for Mast Arm Assembly	Chemical ASTM A53	Misc. Ga550 GACERT		QPL-52, pre-inspected by Central Lab Personnel & GDT stamped					
		Yield Strength T244								
		Tensile Strength T244								
		Elongation T244								
		Bending ASTM A53								
		Flattening ASTM A53								
		Non-Destructive Electric Test ASTM A53								
		Weight								
		Diameter								
		Thickness								
		Finish								
	Appearance									
	Misc. Fittings	Specification Requirements						Stock		
	Steel Bolts, Nuts & Washers	Chemical ASTM F568	Misc. Ga550 GACERT		Certified Mill Test Report					
		Yield Strength ASTM F606								
		Tensile Strength ASTM F606								
		Elongation ASTM F606								
		Reduction of Area ASTM F606								
		Hardness ASTM F606								
		Length								
		Diameter								
	Thread Class									
	Galvanization ASTM A90 or ASTM E376									
	Guy Wires	Diameter ASTM A475	Misc. Ga550 GACERT		QPL-72					
		Number of Wires ASTM A475								
		Weight ASTM A475								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Breaking Strength <i>ASTM A475</i>							
		Elongation <i>ASTM A475</i>							
		Galvanization <i>ASTM A475</i>							
		Ductility <i>ASTM A475</i>							
	Center Mount Reflector	Seal Test <i>Section 916</i>	Misc. Ga550 GACERT	50 of ea. color	Pre-inspected by Central Lab Personnel & GDT stamped				
		Heat Resistance <i>Section 916</i>							
		Specific Intensity <i>Section 916</i>							
	Demountable Reflective Characters	Chemical	Misc. Ga550 GACERT		QPL-80				
		Thickness							
		Dimensions							
		Shape							
		Tensile Strength <i>T244</i>							
		Yield Strength <i>T244</i>							
		Elongation <i>T244</i>							
		Bend Diameter Factor <i>ASTM B209</i>							
		Hardness <i>ASTM B241</i>							
		Shear Strength <i>ASTM B565</i>							
Piling									
	Prestressed Concrete		GACERT		QPL-9, Plant Shipping Report (OMR-122)& Official Plant Stamp; Visual Inspection by Project Personnel				
	Treated Timber Piles	Certification	Misc. GACERT		QPL-50, pre-inspected by Authorized Agency & AWW Stamp				
	Preservative Treatment	Certification	Misc. GACERT		QPL-50 & Pre-inspected by Authorized Agency				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Aluminum Powder	Fineness ASTM D480	Misc. GACERT						
	Self-Lubricating Bronze Bearing & Expansion Plates & Bushings	Certification	Misc. GACERT		Certified Mill Test Report				
	Paint	Pigment ASTM D2371	Misc. GACERT	1 qt.	QPL-46 (Systems IV & V): pre-inspected by Central Lab Personnel & GDT stamped QPL-54 & QPL-73 (System VI): <u>not</u> GDT stamped				
		Non-Volatile Vehicle							
		Grind							
		Viscosity ASTM D562							
		Dry Time ASTM D711							
		Percent Volatile							
		Weight per Gallon ASTM D1475							
		Color							
	Welded & Seamless Steel Pile	Thickness	Misc. Ga165P GACERT		QPL-44 & Certified Mill Test Report				
		Chemical ASTM A252							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Diameter							
		Weight							
	Certification								
	Fluted Steel Shell Pile	Thickness	Misc. Ga165P GACERT		QPL-44 & Certified Mill Test Report				
		Diameter							
		Yield Strength T244							
		Certification							
	Steel H-Pile	Charpy ASTM E23	Misc. Ga165P GACERT		QPL-44 & Certified Mill Test Report				
		Thickness							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Yield Strength <i>ASTM A370</i>								
		Tensile Strength <i>ASTM A370</i>								
		Elongation <i>ASTM A370</i>								
		Reduction of Area <i>ASTM A370</i>								
		Hardness <i>ASTM A370</i>								
		Chemical <i>ASTM A709</i>								
		Certification								
	Steel Bolts, Nuts & Washers	Chemical <i>ASTM F568</i>	Misc. GACERT			Certified Mill Test Report				
		Yield Strength <i>ASTM F606</i>								
		Tensile Strength <i>ASTM F606</i>								
		Elongation <i>ASTM F606</i>								
		Reduction of Area <i>ASTM F606</i>								
		Hardness <i>ASTM F606</i>								
		Length								
		Diameter								
	Thread Class									
	Galvanization <i>ASTM A90 or ASTM E376</i>									
	Aluminum Alloy Sheet & Plate	Chemical	Misc. GACERT			Certified Mill Test Report				
		Thickness								
		Dimensions								
		Tensile Strength <i>T244</i>								
Yield Strength <i>T244</i>										
Elongation <i>T244</i>										
Bend Diameter Factor <i>ASTM B209</i>										
Hardness <i>ASTM B241</i>										
Shear Strength <i>ASTM B565</i>										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Steel H-Piling	Charpy ASTM E23	Misc. Ga165P GACERT		QPL-44					
		Thickness								
		Yield Strength ASTM A370								
		Tensile Strength ASTM A370								
		Elongation ASTM A370								
		Reduction of Area ASTM A370								
		Hardness ASTM A370								
		Chemical ASTM A370								
	Certification									
	Concrete									
		Compressive Strength T22	Misc. T152							
	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3					
		Fineness M85								
		Autoclave M85								
Compressive Strength M85										
Vicat T131										
Chemical M85										
Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.					
	Sand Equivalent GDT-63									
Coarse	Wash 200 T11	DOT-658 Ga658	35 lbs.	One per 1,500 tons	QPL-2 Sources, 1 per					

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Aggregate	Gradation T27			based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Paints	Pigment ASTM D2371	Misc. GACERT	1 qt.	Pre-inspected by Central Lab Personnel & GDT stamped				
		Non-Volatile Vehicle							
		Grind							
		Viscosity ASTM D562							
		Dry Time ASTM D711							
		Percent Volatile							
		Weight per Gallon ASTM D1475							
		Color							
	Certification								
637									
ILLUMINATED SIGN SYSTEM	Signs	Certification	Ga550		Pre-inspected by Central Lab Personnel & GDT stamped or QPL-80 with Approval decal				
	Lighting	Light Intensity			Notify Office of Materials & Research for night check of light intensity			After Installation	
638									
STRUCTURAL SUPPORTS FOR OVERHEAD SIGNS	Structures	Certification	Misc. GACERT		QPL-52, pre-inspected by Central Lab Personnel & GDT stamped				
	Steel Pipe	Chemical ASTM A53	Misc. Ga164a		Certified Mill Test				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Yield Strength T244	GACERT		Report				
		Tensile Strength T244							
		Elongation T244							
		Bending ASTM A53							
		Flattening ASTM A53							
		Non-Destructive Electric Test ASTM A53							
		Weight							
		Diameter							
		Thickness							
		Finish							
		Appearance							
	Galvanization ASTM A123								
	Steel Bolts, Nuts & Washers	Chemical ASTM F568	Misc. GACERT		Certified Mill Test Report				
		Yield Strength ASTM F606							
		Tensile Strength ASTM F606							
		Elongation ASTM F606							
		Reduction of area ASTM F606							
		Hardness ASTM F606							
		Length							
		Diameter							
	Anchor Bolts	Grade M314	Misc. GACERT	1 bolt per diameter, per Heat Number, per Project	Pre-inspected by Central Lab Personnel & GDT stamped. Bolts 1 1/2" & larger in diameter are stenciled with GDT number on threaded end of bolt.			Supplier	
		Yield strength T244							
		Tensile Strength T244							
		Elongation T244							
		Reduction of Area T244							
		Thread Dimensions							
		Size							
	Diameter								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Length							
		Chemical M314							
		Galvanization ASTM A153							
Concrete									
		Compressive Strength T22	Misc. Ga175						
Portland Cement		Air Content T137	DOT-175 Ga175						
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
	Chemical M85								
Fine Aggregate		Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.			
		Sand Equivalent GDT-63							
Coarse Aggregate		Wash 200 T11	DOT-658 Ga658	35 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.			
		Gradation T27							
Silicone Sealant		Tensile Strength ASTM D412	Misc. GACERT						
		Durometer ASTM D2240							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Bond GDT-106							
		Tack Free Time GDT-106							
		Extrusion GDT-106							
		Non-Volatile GDT-106							
		Specific Gravity ASTM D792							
		Adhesion GDT-106							
	Resistance ASTM C793								
	Reinforcement	M31M	Reinforce-ment Test Report Ga166		QPL-12, QPL-61 & Certified Mill Test Report				
639									
STRAIN POLE FOR OVERHEAD SIGN & SIGNAL ASSEMBLIES	Timber Poles	Retention of Preservative AWWA C14	Misc. GACERT		QPL-50 & pre-inspected by Authorized Agency with AWW stamp on each end of pole				
	Guy Wires	Diameter ASTM A475	Misc. GACERT		QPL-72				
		Number of Wires ASTM A475							
		Weight ASTM A475							
		Breaking Strength ASTM A475							
		Elongation ASTM A475							
		Galvanization ASTM A475							
	Ductility ASTM A475								
	Steel Poles	Charpy ASTM E23	Misc. GACERT		QPL-52, pre-inspected & GDT stamped				
		Thickness							
		Yield Strength ASTM A370							
		Tensile Strength ASTM A370							
			Elongation ASTM A370						

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Reduction of Area ASTM A370							
		Hardness ASTM A370							
		Chemical ASTM A709							
		Certification							
	Concrete Poles		GACERT		QPL-9, Plant Shipping Report (OMR-122) & embedded I.D. Plate				
Concrete									
		Compressive Strength T22	DOT-319 T152						
	Portland Cement	Air Content T137	DOT-175 Ga175						
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
	Portland Pozzolan Cement	Chemical M85							
		Air Content T137	DOT-175 Ga175						
		Fineness M240							
		Autoclave A240							
	Compressive Strength M240								
	Fine Aggregate	Vicat T131							
		Chemical M240							
		Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.			
	Sand Equivalent GDT-63								
	Coarse	Wash 200 T11	DOT-658 Ga658	35 lbs.	One per 1,500 tons	QPL-2 Sources, 1 per			

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Aggregate	Gradation T27			based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Highway Signs	Certification	Misc. Ga550 GACERT		Pre-inspected by Central Lab Personnel & GDT stamped <u>or</u> QPL-80 with Approval decal				
	Anchor Bolts	Grade M314	Misc. GACERT	1 bolt per diameter, per Heat Number, per Project	Pre-inspected by Central Lab Personnel & GDT stamped. Bolts 1 1/2" in diameter & larger are stenciled with GDT number on threaded end of bolt.		Supplier		
Yield Strength T244									
Tensile Strength T244									
Elongation T244									
Reduction of Area T244									
Thread Dimensions									
Size									
Diameter									
Length									
Chemical M314									
Galvanization ASTM A153									
640									
REFLECTORIZED RAILROAD CROSS BUCK SIGN	Sign	Certification	Ga550		Pre-inspected by Central Lab Personnel & GDT stamped <u>or</u> QPL-80 with approval decal				
	Concrete								
		Compressive Strength T22	Misc. T152						
	Portland Cement	Air Content T137	DOT-175 Ga175						
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Portland Pozzolan Cement	Chemical M85	DOT-175 Ga175						
		Air Content T137							
		Fineness M240							
		Autoclave M240							
		Compressive Strength M240							
		Vicat T131							
		Chemical M240							
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, except for Section D, Stockpile Basis Source; material from Section D must be sampled.	QPL-1 Sources, 1 per month, per active plant, except from Section D, Stockpile Basis Sources.; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
		Sand Equivalent GDT-63							
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 lbs.	One per 1,500 tons based upon QPL-2, except for Section D, Stockpile Basis Source; material from Section D must be sampled.	QPL-2 Sources, 1 per month, per active plant, except from Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
		Gradation T27							
641									
GUARD RAIL	Steel Guard Rail	Dimensions M180	Misc. Ga165 GACERT		QPL-8 & Certified Mill Test Report			Stock	Determination of Zinc Coating with Thickness Gauge
		Yield Strength T244							
		Tensile Strength T244							
		Elongation T244							
		Chemical M180							
		Galvanization							
	Independent Assurance: sample occasionally								
Aluminum Guard	Chemical ASTM B209	Misc.		QPL-8 & Certified Mill			Stock	Determination of Zinc	

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Rail	Thickness Section 859.01.B	Ga165 GACERT		Test Report				Coating with Thickness Gauge	
		Dimensions Section 859.01.B								
		Tensile Strength T244								
		Yield Strength T244								
		Elongation T244								
		Bend Diameter Factor ASTM B209								
		Hardness ASTM B241								
		Shear Strength ASTM B565								
	Cable End Anchor Assembly									
		Certification	GACERT							
	Anchor Plates	Charpy ASTM E23	Misc. Ga165 GACERT		Certified Mill Test Report					
		Thickness								
		Yield Strength ASTM A370								
		Tensile Strength ASTM A370								
		Elongation ASTM A370								
Reduction of Area ASTM A370										
Hardness ASTM A370										
Chemical ASTM A709										
Certification										
Anchor Rods	Chemical ASTM A575 or ASTM A576	Misc. Ga165 GACERT		Certified Mill Test Report						
Anchor Cable	Diameter ASTM A741	Misc. Ga165 GACERT		Certified Mill Test Report						
	Number of Wires ASTM A741									
	Weight ASTM A741									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS			
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE					
		Breaking Strength <i>ASTM A741</i>										
		Galvanization <i>ASTM A741</i>										
		Ductility <i>ASTM A741</i>										
		Appearance										
	Bolts & Nuts	Chemical <i>ASTM F568</i>	Misc. Ga165 GACERT			Certified Mill Test Report						
		Yield Strength <i>ASTM F606</i>										
		Tensile Strength <i>ASTM F606</i>										
		Elongation <i>ASTM F606</i>										
		Reduction of Area <i>ASTM F606</i>										
		Hardness <i>ASTM F606</i>										
		Length										
		Diameter										
		Thread Class										
		Galvanization <i>ASTM A153</i>										
	Steel Posts	Charpy <i>ASTM E23</i>	Misc. Ga165 GACERT	1 Post		QPL-8 & Certified Mill Test Report			Stock	Independent Assurance: sample occasionally		
		Thickness										
		Yield strength <i>ASTM A370</i>										
		Tensile Strength <i>ASTM A370</i>										
		Elongation <i>ASTM A370</i>										
		Reduction of Area <i>ASTM A370</i>										
Hardness <i>ASTM A370</i>												
Chemical <i>ASTM A709</i>												
Certification												
Galvanization <i>ASTM A123</i>												

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Concrete Posts		Ga165		Pre-inspected by Central Lab Personnel or if manufactured on job, sampled in accordance with Section 500, Concrete Pipe Headwall			Project	
	Wood Posts	Retention of Preservative AWPA C14	Misc. Ga165		QPL-50 & pre-inspected by Authorized Agency with AWW stamp in each end			Stock	Independent Assurance: sample occasionally
	Metal Caps	Certification	Misc. Ga165		Certified Mill Test Report			Stock	Independent Assurance: sample occasionally
	Anchor Assembly	Certification	Misc. Ga165		Certified Mill Test Report				
	Wood Offset Blocks	Retention of Preservative AWPA C14	Misc. Ga165		QPL-50, pre-inspected by Authorized Agency & AWW stamped			Stock	Independent Assurance: sample occasionally
	Steel Offset Blocks	Certification	Misc. Ga165		QPL-8 & Certified Mill Test Report				
	Bolts, Nuts & Washers	Certification	Misc. Ga165		Certified Mill Test Report			Stock	
	Galvanized Repair Compound	Certification	Misc. Ga165	1 qt.	Pre-inspected by Central Lab Personnel & GDT stamped			Supplier	
643									
FENCE	Chain Link Fence Fabric	Specification Requirements ASTM A392 or ASTM A491	Misc. GACERT	1 ft	Pre-inspected by Central Lab Personnel; 1 sample per 50 rolls*, per Project & GDT tagged			Supplier	*Material not pretested: Engineer should contact Inspection Services Branch of Office of Materials & Research prior to use
	Height								
	Diamond Count								
	Mesh Size								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Wire Diameter							
		Breaking Strength <i>ASTM A817</i>							
		Coating <i>ASTM A817</i>							
	Chain Link Fence Posts	Specification Requirements <i>ASTM F669</i>	Misc. GACERT	1ft or 1 pc. for accessories	Pre-inspected by Central Lab Personnel; 1 sample per Project & GDT tagged or stamped			Supplier	Independent Assurance: sample occasionally
		Dimensions							
		Yield Strength <i>ASTM A702</i>							
		Tensile Strength <i>ASTM A702</i>							
		Weight							
		Hardness <i>ASTM A702</i>							
		Galvanization <i>ASTM A123</i>							
	Barbed Wire	Specification Requirements <i>ASTM A121 or ASTM A585</i>	Misc. GACERT	3 ft.	Pre-inspected by Central Lab Personnel & GDT tagged; 1 per 50 rolls per Project			Supplier	
		Diameter							
		Number of Points <i>ASTM A121</i>							
		Shape & Spacing of Barbs <i>ASTM A121</i>							
		Breaking Strength <i>ASTM A121</i>							
		Coating <i>ASTM A121 or ASTM A585</i>							
Concrete									
		Compressive Strength <i>T22</i>	Misc. T152						
	Portland Cement	Air Content <i>T137</i>	DOT-175 Ga175		QPL-3				
		Fineness <i>M85</i>							
		Autoclave <i>M85</i>							
		Compressive Strength <i>M85</i>							
		Vicat <i>T131</i>							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Portland Pozzolan Cement	Chemical M85	DOT-175 Ga175		QPL-3					
		Air Content T137								
		Fineness M240								
		Autoclave M240								
		Compressive Strength M240								
		Vicat T131								
		Chemical M240								
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; materil from Section D must b 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.				
		Sand Equivalent GDT-63								
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 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.				
		Gradation T27								
	Woven Wire Fence Fabric	Height	Misc. GACERT		Certified Mill Test Report		Stock			
		Vertical & Horizontal Spacing								
		Diameter								
		Number of Wires								
Breaking Strength ASTM A116										
Coating ASTM A116 or ASTM A584										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Steel Posts & Bracing	Specification Requirements ASTM F669	GACERT		Certified Mill Test Report			Stock	
	Wood Fence Posts	Dimensions	Misc. GACERT		QPL-50 & pre-inspected by Authorized Agency with an AWW stamp in each end			Independent Assurance: sample occasionally	
		Preservative Treatment							
		Certification							
	Metal Caps	Specification Requirements ASTM A93	Misc. GACERT		Certified Mill Test Report			Stock	Independent Assurance: sample occasionally
		Thickness							
		Galvanization ASTM A525							
	Ground Rods	Diameter	Misc. GACERT		Galvanized Ground Rods: pre-inspected by Central Lab Personnel & GDT stamped Copper Ground Rods: Certified Mill Test Report				
		Length							
		Galvanization ASTM A153							
645									
REPAIR OF GALVANIZED COATINGS	Galvanized Repair Compound	Certification	Misc. GACERT	1 qt.	Pre-inspected by Central Lab Personnel & GDT stamped			Supplier	
647									
TRAFFIC SIGNAL INSTALLATIONS	As Specified	As Specified	GACERT		Pre-approved Catalog Cuts on all Materials				
648									
TRAFFIC IMPACT ATTENUATOR	Attenuator	Certification	GACERT						Independent Assurance: sample occasionally
	Miscellaneous Items	Certification	GACERT						
	Concrete	Compressive Strength GDT-35 & T22	DOT-319 T152	2 cylinders	See NOTE 1		Observe 1 set per 750 yd ³	During pouring	Cylinders to be broken in Branch or Central Lab
		NOTE 1: One set per each 50 yd ³ of each Class of Concrete placed daily for each structure, except for Concrete used in Bridge Curb, Handrail or Wall Coping. Two Concrete cylinders shall be fabricated for each cumulative 50 yd ³ or fraction there of, of Concrete placed per week in each structure. Cylinders shall not be fabricated at one structure to represent Concrete placed in another structure.							
	Air Content GDT-26 or GDT-32	DOT-168	See NOTE 2	When cylinders are made		Observe 1 set per 750 yd ³	Placement site	Additional Slump tests will be required when Water is added on Project	

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Slump GDT-27							
		Mix Temperature GDT-122							
		NOTE 2: Air, Slump & Mix Temperature tests are all required when cylinders are made & as judged necessary to insure adequate controls. Additional tests are recommended at least every third load on bridge deck placement.							
	Sand	Gradation T27			One per Project			Stock	
649									
CONCRETE GLARE SCREEN	Concrete								
		Compressive Strength GDT-35 & T22	DOT-319 T152	2 cylinders	See NOTE 1		Observe 1 set per 1,500 yd ³	During pouring operations	Cylinders to be tested in Branch or Central Lab
		NOTE 1: One set per each 75 yd ³ , for fraction thereof, placed daily, except for Concrete Barrier placed with slip form equipment. Two cylinders shall be fabricated for each 150 yd ³ , or fraction thereof, placed daily.							
		Air GDT-26 or GDT-32							
		Slump GDT-27		See NOTE 2			Observe 1 set per 1,500 yd ³	During pouring operations	
		Mix Temperature GDT-122							
		NOTE 2: Air, Slump & Mix Temperature tests are required when cylinders are made & as judged necessary to insure adequate control.							
	Portland Cement	Air Content T137							
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85	DOT-175 Ga175		QPL-3				
		Vicat T131							
		Chemical M85							
	Portland Pozzolan Cement	Air Content T137							
		Fineness M240							
		Autoclave M240							
		Compressive Strength M240	DOT-175 Ga175						
		Vicat T131							
		Chemical M240							
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons	QPL-1 Sources, 1 per			

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Sand Equivalent GDT-63			based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.				
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 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.				
		Gradation T27								
650										
GUARD RAIL IMPACT ATTENUATOR	Steel Attenuator	Certification			Certified Mill Report					
	Concrete Base									
	Portland Cement	Air Content T137	DOT-175 Ga175	10 lbs.	QPL-3	One per Quarter, per Source, per District		Stock		
		Fineness M85								
		Autoclave M85								
		Compressive Strength M85								
		Vicat T131								
	Chemical M85									
	Portland Pozzolan Cement	Air Content T137	DOT-175 Ga175							
		Fineness M240								
		Autoclave M240								
		Compressive Strength M240								
Vicat T131										
Chemical M240										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Fly Ash	Physical & Chemical ASTM C311	DOT-175 Ga175	10 lbs.	QPL-30	One per Quarter, per Source, per District		Stock	
		Fineness M295							
		Activity M295							
		Soundness M295							
		Density M295							
	Chemical M295								
	Slag	Fineness M302	DOT-175 Ga175	10 lbs.	QPL-30	One per Quarter, per Source, per District		Stock	
		Activity M302							
		Soundness M302							
		Density M302							
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 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.		Stock or Conveyor Belt	
		Gradation T27							
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.		Stock or Conveyor Belt	
		Sand Equivalent GDT-63							
		Wash 200 T11							
Water	Quality of Water to be Used in Concrete T26	Ga088	1 qt.*	One per unpotable Source, per month			Enough in advance so that results are known before use	*non-metal container	

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Air Entrainment Admixtures	Air-Entraining Admixtures for Concrete M154	GACERT	1 qt.	QPL-13	One per 6 months, per Source, per District		Ready Mix Plant Stock	
	Chemical Admixtures	Chemical Admixtures for Concrete M194	GACERT	1 qt.	QPL-14	One per 6 months, per Source, per District		Ready Mix Plant Stock	
	Deck Oil		GACERT	1 qt.	QPL-23	None		Stock	
	Steel Bars for Reinforcement	Number M31M	Reinforce-ment Test Report Ga166	2 pcs. @ 24" per size	QPL-12 & QPL-61	Random sampling at Fabricator			
		Weight M31M							
		Dimensions M31M							
		Deformation Spacing M31M							
		Height & Gap M31M							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Test T285							
	Chemical M31M								
	Steel Wire for Reinforcement	Size M32M	Reinforce-ment Test Report Ga166 GACERT		Certified Mill Test Report				
		Diameter M32M							
		Area M32M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
	Bend Test M32M								
	Welded Steel Wire Fabric for Reinforcement	Size M55M	Welded Wire Test Report Ga166		QPL-55				
		Diameter M55M							
		Area M55M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M55M							
		Weld Shear Strength M55M							
		Width M55M							
	Length M55M								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Spacing M55M								
651										
RAISED TRAFFIC BARS	Epoxy Adhesive	Pot Life GDT-58	Misc. GACERT	1 kit	QPL-15 or 1 sample per batch, per Type		Stock			
		Elongation GDT-58								
		Bond Strength GDT-58								
		Hardness ASTM D2240								
		Sag Test T237								
		Wet Bond Test T237								
	Concrete									
		Compressive Strength GDT-35 & T22	DOT-319 T152	2 cylinders	See NOTE 1	T152	Observe 1 set per 750 yd ³	During pouring	Cylinders to be broken in Branch or Central Lab	
		NOTE 1: One set per each 50 yd ³ of each Class of Concrete placed daily for each structure, except for Concrete used in Bridge Curb, Handrail or Wall Coping. Two Concrete cylinders shall be fabricated for each cumulative 50 yd ³ or fraction thereof, of Concrete placed per week in each structure. Cylinders shall not be fabricated at on structure to represent Concrete placed in another structure.								
		Air Content GDT-26 or GDT-32	DOT-168	See NOTE 2	When cylinders are made		Observe 1 set per 750 yd ³	Placement site	Additional Slump test will be required when Water is added on Project	
		Slump GDT-27								
		Mix Temperature GDT-122								
		NOTE 2: Air, Slump & Mix Temperature tests are all required when cylinders are made & as judged necessary to insure adequate controls. Additional tests are recommended at least every third load on bridge deck placement.								
	Portland Cement	Air Content T137	DOT-175 Ga175			QPL-3				
										Fineness M85
										Autoclave M85
										Compressive Strength M85
										Vicat T131
										Chemical M85
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons	QPL-1 Sources, 1 per				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Sand Equivalent GDT-63			based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 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.			
		Gradation T27							
652									
PAINTING TRAFFIC STRIPE	Paint	Pigment ASTM D2371	Misc. GACERT	2 pints per batch	QPL-46, pre-inspected by Central Lab Personnel & GDT stamped		Supplier	Independent Assurance: sample occasionally	
		Non-Volatile Vehicle							
		Grind							
		Viscosity ASTM D562							
		Dry Time ASTM D711							
		Percent Volatile							
		Weight per Gallon ASTM D1475							
		Color							
	Certification								
	Glass Beads	Gradation ASTM D1214	Misc. GACERT	1 bag per 10,000 lbs., split for a one gal. composite	Pre-inspected by Central Lab Personnel & GDT stamped		Stock	Independent Assurance: sample occasionally	
		Roundness ASTM D1155							
		Refractive Index M247							
		Flow M247							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Visual		sample					
653									
THEMOPLASTIC TRAFFIC STRIPE	Thermoplastic	Softening Point ASTM D36	Misc. GACERT	1 bag per 10,000 lbs., split for a 10 lb. composite sample	Pre-inspected by Central Lab Personnel with GDT stamp or QPL-46 & CTT stamped		Stock	Independent Assurance: sample occasionally	
		Color Retention ASTM D620							
		Indentation Resistance ASTM D2240							
		Water Absorption ASTM D570							
		Binder ASTM D4797							
		Abrasion Resistance							
		Color							
		Reheating							
	Percent Glass Beads								
	Glass Beads	Gradation ASTM D1214	Misc. GACERT	1 bag per 10,000 lbs., split for a one gal. composite sample	Pre-inspected by Central Lab Personnel & GDT stamped on outside of bag		Stock		
		Roundness ASTM D1155							
		Refractive Index M247							
		Flow M247							
		Visual							
654									
RAISED PAVEMENT MARKERS	Raised Pavement Markers	Specific Intensity ASTM D4280	Misc. GACERT	50 ea.	QPL-76, pre-inspected by Central Lab Personnel & GDT stamped		Stock		
		Compressive Strength ASTM D4280							
		Color							
	Epoxy Resin Adhesive	Pot Life GDT-58	Misc. GACERT	1 kit	QPL-15 or 1 sample per batch, per Type		Stock		
		Elongation GDT-58							
		Bond Strength GDT-58							
		Hardness ASTM D2240							
		Sag Test T237							
	Wet Bond Test T237								
	Bituminous	Softening Point T53	Misc. GACERT		Certified Mill Test		Stock		

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Adhesive	Penetration T49 Flow ASTM D3407 Flash Point T48 Viscosity ASTM D2669 & T202 Filler Content Filler Fineness ASTM C430			Report				
655									
PAVEMENT ARROW WITH RAISED REFLECTORS	Paint	Pigment ASTM D2371	Misc. GACERT	2 pints per batch number	QPL-46, pre-inspected by Central Lab Personnel & GDT stamped				
		Non-Volatile Vehicle							
		Grind							
		Viscosity ASTM D562							
		Dry Time ASTM D711							
		Percent Volatile							
		Weight per Gallon ASTM D1475							
		Color							
	Certification								
	Epoxy Resin Adhesive	Pot Life GDT-58	Misc. GACERT	1 kit	QPL-15 or 1 sample per batch, per Type		Stock		
		Elongation GDT-58							
		Bond Strength GDT-58							
		Hardness ASTM D2240							
		Sag Test T237							
		Wet Bond Test T237							
	Glass Beads	Gradation ASTM D1214	Misc. GACERT	1 bag per 10,000 lbs., split for a one gal. composite sample	Pre-inspected by Central Lab Personnel & GDT stamped				
		Roundness ASTM D1155							
		Refractive Index M247							
		Flow M247							
		Visual							
Thermoplastic	Softening Point ASTM D36	Misc. GACERT		Pre-inspected by Central Lab personnel & GDT stamped <u>or</u> QPL-46 & CTT					
	Color Retention ASTM D620								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS			
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE					
		Indentation Resistance <i>ASTM D2240</i>			stamped							
		Water Absorption <i>ASTM D570</i>										
		Binder <i>ASTM D4797</i>										
		Abrasion Resistance										
		Color										
		Reheating										
		Percent Glass Beads										
	Raised Pavement Markers	Specific Intensity <i>ASTM D4280</i>	Misc. GACERT	50 markers per shipment (random samples)	QPL-76, pre-inspected by Central Lab personnel & GDT stamped							
		Compressive Strength <i>ASTM D4280</i>										
		Color										
	Bituminous Adhesive	Softening Point <i>T53</i>	Misc. GACERT		Certified Mill Test Report			Stock				
		Penetration <i>T49</i>										
		Flow <i>ASTM D3407</i>										
		Flash Point <i>T48</i>										
		Viscosity <i>ASTM D2669 & T202</i>										
Filler Content												
	<i>Filler Fineness ASTM C430</i>											
657												
PREFORMED PLASTIC PAVEMENT MARKINGS	Marking Material	Pigment <i>ASTM E303</i>	Misc. GACERT									
		Refractive Index <i>ASTM D4592</i>										
		Thickness <i>ASTM D4592</i>										
		Reflective Intensity <i>ASTM D4601</i>										
		Color										
660												

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
SANITARY SEWERS	Backfill	Gradation T27	DOT-658 Ga658	45 lbs.	One per 500 tons based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	As required by Project Engineer				
	Portland Cement	Air Content T137	DOT-175 Ga175	10 lbs.	QPL-3	One per Quarter, per Source, per District		Stock		
		Fineness M85								
		Autoclave M85								
		Compressive Strength M85								
		Vicat T131								
		Chemical M85								
	Fine Aggregate for Mortar	Gradation T27	DOT-658 Ga658	20 lbs.	QPL-1					
	Sewer Joint Sealing Compound	Specification Requirements Federal Specifications SS-S-169	GACERT	1 qt.	QPL-21 or 1 per lot, per shipment					
	Rubber Gaskets	Tensile Strength ASTM D412	Misc. GACERT	1 of ea. Type	QPL-21 & Certified Mill Test Report			Stock		
		Elongation ASTM D412								
		Hardness ASTM D2240								
		Tear Strength ASTM D624								
		Compression Set ASTM D395								
		Water Absorption ASTM D471								
	Color									
Resilient Clay Joints & Jute Heap		GACERT		Accepted based on Project inspection						
Reinforced Concrete Pipe										
	M170				QPL-4 & GDT or CPT stamp					
Portland Cement	Air Content T137	DOT-175 Ga175								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Fineness M85								
		Autoclave M85								
		Compressive Strength M85								
		Vicat T131								
		Chemical M85								
	Fly Ash	Fineness M295	DOT-175 Ga175			QPL-30				
		Activity M295								
		Soundness M295								
		Density M295								
		Chemical M295								
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.				
		Sand Equivalent GDT-63								
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 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.				
		Gradation T27								
	Steel Wire for Reinforcement	Size M32M	Reinforce-ment Test Report Ga166			Certified Mill Test Report				
Diameter M32M										
Area M32M										
Tensile Strength T244										
Yield Strength T244										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Welded Steel Wire Fabric for Reinforcement	Area Reduction T244	Welded Wire Test Report Ga166		QPL-55				
		Bend Test M32M							
		Size M55M							
		Diameter M55M							
		Area M55M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M55M							
		Weld Shear Strength M55M							
		Width M55M							
		Length M55M							
	Spacing M55M								
	Cylinders	Compressive Strength	T152						
	Physical Properties	Diameter M170							
Thickness M170									
Reinforcement Design M170									
External Load Strength T280									
Non-Reinforced Concrete Pipe									
	M86	Ga164		QPL-4 & GDT or CPT stamped					
Portland Cement	Air Content T137	DOT-175 Ga175							
	Fineness M85								
	Autoclave M85								
	Compressive Strength M85								
	Vicat T131								
Chemical M85									
Fly Ash	Fineness M295	DOT-175 Ga175			QPL-30				
	Activity M295								
	Soundness M295								
	Density M295								
Chemical M295									
Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons	QPL-1 Sources, 1 per				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Sand Equivalent GDT-63			based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Coarse Aggregate	Wash 200 T11 Gradation T27	DOT-658 Ga658	35 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.			
	Physical Properties	Diameter M86							
		Thickness M86							
		External Load Strength T280							
		Absorption M86							
		Permeability M86							
	Cast Iron Pipe	Transverse Bend Test ASTM A438	Misc. Ga164a GACERT		Certified Mill Test Report				
		Tensile Strength ASTM E8							
		Dimensions							
		Coating							
	Clay Pipe	Bearing Strength ASTM C700	Misc. Ga164a GACERT		Certified Mill Test Report				
		Absorption ASTM C700							
		Dimensions							
		Glaze ASTM C700							
		Blisters ASTM C700							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Cracks <i>ASTM C700</i>							
		Perforations <i>ASTM C700</i>							
		Fittings <i>ASTM C700</i>							
	PVC Sewer Pipe								
		Dimensions	Misc. Ga164a GACERT		Certified Mill Test Report				
		Flattening <i>ASTM D3034</i>							
		Impact Strength <i>ASTM D3034</i>							
		Stiffness <i>ASTM D3034</i>							
		Joint Tightness <i>ASTM D3212</i>							
		Fittings <i>ASTM D3034</i>							
		Certification							
	Elastomeric Seals	Tensile Strength <i>ASTM D412</i>	Misc. GACERT		Certified Mill Test Report				
		Elongation <i>ASTM D412</i>							
		Hardness <i>ASTM D2240</i>							
		Compression Set <i>ASTM D395</i>							
		Stress Relaxation <i>ASTM F913</i>							
	Steel Pipe	Chemical <i>ASTM A53</i>	Misc. Ga164a GACERT		Certified Mill Test Report				
		Yield Strength <i>T244</i>							
		Tensile Strength <i>T244</i>							
		Elongation <i>T244</i>							
		Bending <i>ASTM A53</i>							
		Flattening <i>ASTM A53</i>							
		Non-Destructive Electric Test <i>ASTM A53</i>							
		Weight							
		Diameter							
		Thickness							
		Finish							
		Appearance							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Plastic Truss Pipe	Dimensions	Misc. Ga164a GACERT		Certified Mill Test Report					
		Stiffness ASTM D2680								
		Deflection ASTM D2680								
		Joints & Fittings ASTM D2680								
	Ductile Iron Pipe	Certification	Ga164a GACERT		Certified Mill Test Report					
	Bolted Couplings	Dimensions	Misc. GACERT		Certified Mill Test Report					
Certification										
Cement Mortar Lining	Certification	GACERT								
Coal-Tar Enamel Lining	Certification	GACERT								
668										
MISC. DRAINAGE STRUCTURES	Concrete									
		Compressive Strength GDT-35 & T22	DOT-319 T152	2 cylinders	See NOTE 1		Observe 1 set per 750 yd ³	During pouring	Cylinders to be broken in Branch or Central Lab	
	NOTE 1: One set per each 50 yd ³ of each Class of Concrete placed daily for each structure, except for Concrete used in Bridge Curb, Handrail or Wall Coping. Two Concrete cylinders shall be fabricated for each cumulative 50 yd ³ or fraction thereof, of Concrete placed per week in each structure. Cylinders shall not be fabricated at one structure to represent Concrete placed in another structure.									
		Air Content GDT-26 or GDT-32	DOT-168	See NOTE 2	When cylinders are made		Observe 1 set per 750 yd ³	Placement site	Additional Slump test will be required when Water is added on Project	
		Slump GDT-27								
		Mix Temperature GDT-122								
	NOTE 2: Air, Slump & Mix Temperature tests are all required when cylinders are made & as judged necessary to insure adequate controls. Additional tests are recommended at least every third load on bridge deck placement.									
Portland Cement	Air Content T137	DOT-175 Ga175			QPL-30					
	Fineness M85									
	Autoclave M85									
	Compressive Strength M85									
	Vicat T131									
	Chemical M85									
Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons	QPL-1 Sources, 1 per					

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Sand Equivalent GDT-63			based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Coarse Aggregate	Wash 200 T11 Gradation T27	DOT-658 Ga658	35 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.			
	Brick	Size	Misc. GACERT						
		Absorption T32							
		Compressive Strength T32							
	Masonry Stone	Percent Wear T96	DOT-658 Ga658	100 lbs.	One per Project			Stock	
		Soundness T104							
		Appearance							
		Dimensions							
		Abrasion T96							
	Mortar & Grout	Gradation GDT-3		20 lbs.	Enough to insure consistency & quality; Visual Inspection				
	Steel Wire for Reinforcement	Size M32M	Reinforce-ment Test Report Ga166 GACERT		Certified Mill Test Report				
		Diameter M32M							
		Area M32M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Bend Test M32M							
	Gray Iron Casting	Specification Requirements M105 Class 20	Misc. GACERT	2 test bars	Pre-inspected by Central Lab Personnel & GDT stamped <i>or</i> QPL-11 & Certified Casting Technician (CCT) stamped				
		Dimensions As Specified							
		Tensile Strength M105							
		Breaking Load M105							
	Precast Units	Certification	Misc. GACERT		QPL-4 & CPT stamp <i>or</i> pre-inspected by Central Lab Personnel & GDT stamped				
	Sand for Bedding Material	Gradation GDT-3	Ga658	20 lbs.	One per 1,500 yd ³			Stockpile	
Non-Reinforced Concrete Pipe									
		M86			QPL-4 & GDT or CPT stamp				
	Portland Cement	Air Content T137	DOT-175 Ga175						
		Fineness M85							
		Autoclave M85							
		Compressive Strength M85							
		Vicat T131							
		Chemical M85							
	Fly Ash	Fineness M295	DOT-175 Ga175						
		Activity M295							
		Soundness M295							
		Density M295							
		Chemical M295							
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons	QPL-1 Sources, 1 per			

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Sand Equivalent GDT-63			based upon QPL-1, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.			
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 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.			
		Gradation T27							
	Physical Properties	Diameter M86	OMR-INSP-86 GACERT						
		Thickness M86							
		External Load Strength T280							
		Absorption M86							
		Permeability							
	Welded Steel Wire Fabric for Reinforcement	Size M55M	Welded Wire Test Report Ga166 GACERT		QPL-55				
		Diameter M55M							
		Area M55M							
		Tensile Strength T244							
		Yield Strength T244							
		Area Reduction T244							
		Bend Test M55M							
		Weld Shear Strength M55M							
		Width M55M							
		Length M55M							
	Spacing M55M								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
670										
WATER DISTRIBUTION SYSTEM	Cast Iron Pipe	Transverse Bend Test ASTM A438	Misc. Ga164a GACERT		Certified Mill Test Report					
		Tensile Strength ASTM E8								
		Dimensions								
		Coating								
	Ductile Iron Pipe	Certification	Misc. Ga164a GACERT		Certified Mill Test Report					
	Rubber Gaskets	Tensile Strength ASTM D412	Misc. GACERT		Certified Mill Test Report					
		Elongation ASTM D412								
		Hardness ASTM D2240								
		Tear Strength ASTM D624								
		Compression Set ASTM D395								
		Water Absorption ASTM D471								
	Color									
	Gate Valves & Fire Hydrants	General Requirements Section 670.02	GACERT		Certified Mill Test Report					
		Certification								
	Concrete Block									
	Portland Cement	Air Content T137	DOT-175 Ga175							
		Fineness M85								
		Autoclave M85								
Compressive Strength M85										
Vicat T131										
Chemical M85										
Fly Ash	Fineness M295	DOT-175 Ga175								
	Activity M295									
	Soundness M295									
	Density M295									
	Chemical M295									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lbs.	One per 500 tons based upon QPL-1, 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.			
		Sand Equivalent GDT-63							
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658	35 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.			
		Gradation T27							
	Copper Pipe	Dimensions	Misc. Ga164a GACERT		Certified Mill Test Report				
		Weight ASTM B88							
		Hardness ASTM B88							
		Tensile Strength ASTM B88							
	Galvanized Steel Pipe	Chemical ASTM A53	Misc. Ga164a GACERT		Certified Mill Test Report				
		Yield Strength T244							
		Tensile Strength T244							
		Elongation T244							
Bending ASTM A53									
Flattening ASTM A53									
Non-Destructive Electric Test ASTM A53									
Weight									
Diameter									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Thickness								
		Finish								
		Appearance								
		Galvanization <i>ASTM A123</i>								
	Plastic Pipe	Dimensions <i>ASTM D2239</i>	Misc. Ga164a GACERT			Certified Mill Test Report				
		Bond <i>ASTM D2239</i>								
		Certification								
	Appurtenances	Tensile Strength <i>ASTM B62</i>	Misc. GACERT			Certified Mill Test Report				
		Yield Strength <i>ASTM B62</i>								
		Elongation <i>ASTM B62</i>								
	PVC Pipe	Dimensions <i>ASTM D2241</i>	Misc. Ga164a GACERT			Certified Mill Test Report				
		Flattening <i>ASTM D2241</i>								
		Impact Resistance <i>ASTM D2241</i>								
	Butterfly Valves	General Requirements <i>Section 670.02</i>	GACERT							
Certification										
676										
APPURTENANCE FOR WATER SYSTEMS	Plumbing		GACERT			Certified Mill Test Report				
	Drinking Fountain & Yard Hydrants	Certification	Misc. GACERT			Approved by the applicable Design Office				
680										
HIGHWAY LIGHTING	Standards & Towers	Taper <i>Section 920</i>	Misc. GACERT			QPL-52, pre-inspected by Central Lab Personnel & GDT stamped				
		Galvanization <i>ASTM A123</i>								
		Weld								
		Certification								
	Luminaries	Certification	Misc. GACERT			Approved Catalog Cuts				
	Circuit Breakers	Certification	Misc. GACERT			Approved Catalog Cuts				
Electrical Cable	Certification	Misc. GACERT			Approved Catalog Cuts					

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Duct	Certification	Misc. GACERT	Galvanized Rigid: 1 ft sections per diameter PVC: 10 pcs., 1 ft in length	Pre-inspected by Central Lab personnel & GDT stamped				
	Anchor Bolts	Grade M314	Misc. GACERT	1 bolt per diameter, per Heat number, per Project	Pre-inspected by Central Lab Personnel & GDT stamped		Stock		
		Yield Strength T244							
		Tensile Strength T244							
		Elongation T244							
		Reduction of Area T244							
		Thread Dimensions							
		Size							
		Diameter							
		Length							
		Chemical M314							
	Galvanization ASTM A153								
Concrete									
		Compressive Strength GDT-35 & T22	DOT-319 T152	2 cylinders	See NOTE 1		Observe set per 750 yd ³	During pouring	Cylinders to be broken in Branch or Central Lab
		NOTE 1: One set per each 50 yd ³ of each Class of Concrete placed daily for each structure, except for Concrete used in Bridge Curb. Handrail or Wall Coping. Two Concrete cylinders shall be fabricated for each cumulative 50 yd ³ of fraction thereof, of Concrete placed per week in each structure. Cylinders shall not be fabricated at on structure to represent Concrete placed in another structure.							
		Air Content GDT-26 or GDT-32	DOT-168	See NOTE 2	When cylinders are made		Observe 1 set per 750 yd ³	Placement site	Additional Slump test will be required when Water is added on Project
		Slump GDT-27							
		Mix Temperature GDT-122							
		NOTE 2: Air, Slump & Mix Temperature tests are all required when cylinders are made & as judged necessary to insure adequate controls. Additional tests are recommended at least every third load on bridge deck placement.							
	Portland Cement	Air Content T137	DOT-175 Ga175		QPL-3				
		Fineness M85							
		Autoclave M85							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Compressive Strength M85							
		Vicat T131							
		Chemical M85							
	Fly Ash	Fineness M295	DOT-175 Ga175		QPL-30				
		Activity M295							
		Soundness M295							
		Density M295							
		Chemical M295							
	Fine Aggregate	Gradation T27	DOT-658 Ga658		One per 500 tons based upon QPL-1, 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.			
		Sand Equivalent GDT-63							
	Coarse Aggregate	Wash 200 T11	DOT-658 Ga658		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.			
		Gradation T27							
	Steel Bars for Reinforcement	Number M31M	Reinforce-ment Test Report Ga166		QPL-12 & QPL-61				
		Weight M31M							
		Dimensions M31M							
Deformation Spacing M31M									
Height & Gap M31M									
Tensile Strength T244									
Yield Strength T244									

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Elongation T244								
		Bend Test T285								
		Chemical M31M								
	Paint		Pigment ASTM D2371	Misc. GACERT	1 qt.	QPL-46, pre-inspected by Central Lab Personnel & GDT stamped				
			Non-Volatile Vehicle							
			Grind							
			Viscosity ASTM D562							
			Dry Time ASTM D711							
			Percent Volatile							
			Weight per Gallon ASTM D1475							
			Color							
			Certification							
	Gray Iron Castings		Dimensions As Specified	Misc. GACERT	2 bars	QPL-11 & pre-inspected with GDT or CCT stamp				
			Tensile Strength M105							
			Breaking Load M105							
	Steel Pipe		Chemical ASTM A53	Misc. Ga166 GACERT		Certified Mill Test Report				
			Yield Strength T244							
			Tensile Strength T244							
			Elongation T244							
			Bending ASTM A53							
			Flattening ASTM A53							
			NDE Test ASTM A53							
			Weight							
			Diameter							
			Thickness							
			Finish							
	Appearance									
	Steel Conduit		Galvanization ASTM A90	Misc. GACERT	1 ft	Pre-inspected & GDT stamped				
682										
ELECTRICAL CABLE & CONDUIT	Electrical Wire & Cable	Certification	GACERT		Accepted by Approved Catalog Cut					

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
				SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE		
	Steel Conduit	Galvanization ASTM A90	Misc. GACERT	1 ft	Pre-inspected with GDT stamp			
700								
GRASSING	Seed	Purity, Germination & Noxious Weed Content Tested by Agriculture Dept.	GACERT	Crown-vetch ½ pt Grains: 1 qt. Others: 1 qt.	Acceptance based on analysis tag attached to each bag; 1 sample per Lot if test date more than 9 months old		Enough in advance so that results are known before use	
	Agriculture Lime		GACERT	1 lb.	Pre-inspected with Department of Agriculture Stamp			See GSP-12
	Fertilizer		GACERT	1 lb.	Pre-inspected with Department of Agriculture Stamp			
	Mulch	Moisture Content GDT-41	Misc. GACERT		Acceptance based on Project			
	Asphalt Emulsion	Specification Requirements T59	Ga325	1 qt.	QPL-7 & Visual Inspection		Before application	
	Inoculants		GACERT		Acceptance based on Project Inspection by Engineer*			*Check for evidence of excessive heat
	Bermuda Sprigs		GACERT		Acceptance based on Project Inspection			
	Sod		GACERT		Acceptance based on Project Inspection			
	Bags for Sod		GACERT		Acceptance based on Project Inspection			
	Plant Topsoil	Organic Content	DOT-408 Ga408		Approved by Office of Materials & Research; 1 per proposed Source			
		Gradation GDT-4						
	Soil	Soil Fertility GDT-77	GACERT	1 qt.	Notify Lab Test Supervisor II			See GSP-18 for sampling frequency
	Wood Fiber Mulch	Moisture Content GDT-41 pH	Misc. GACERT		QPL-25			
	Tackifiers		Misc. GACERT		QPL-33			
	Other Materials	Certification from Dept. of Agriculture	GACERT					

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
702										
VINE, SHRUB & TREE PLANTING	Vines, Shrubs, Trees		GACERT		Pre-inspected by Department of Agriculture					
	Fertilizer		GACERT	1 lb.	Pre-inspected with Department of Agriculture Stamp					
	Agriculture Lime		GACERT	1 lb.	Pre-inspected with Department of Agriculture Stamp					
	Plant Topsoil	Organic Content								
		Gradation GDT-4	DOT-408 Ga408							
	Mulch	Moisture Content GDT-41	Misc. GACERT							
Other Materials	Certification from Dept. of Agriculture	GACERT								
703										
TREE WELLS, TREE WALLS & ROOT PROTECTION	Portland Cement	Air Content T137	DOT-175 Ga175							
		Fineness M85								
		Autoclave M85								
		Compressive Strength M85								
		Vicat T131								
		Chemical M85								
	Fine Aggregate	Gradation T27	DOT-658 Ga658	20 lb.	One per 500 tons based upon QPL-1, 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.				
		Sand Equivalent GDT-63								
	Masonry Stone	Percent Wear T96	DOT-658 Ga658	100 lbs.	One per Project	Visual Inspection		Stock		
		Soundness T104								
Appearance										
Dimensions										

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Abrasion T96							
	Clay Pipe	Bearing Strength ASTM C700	Misc. Ga164a GACERT						
		Absorption ASTM C700							
		Dimensions							
		Glaze ASTM C700							
		Blisters ASTM C700							
		Cracks ASTM C700							
		Perforations ASTM C700							
		Fittings ASTM C700							
	Porous Material	Gradation T27	DOT-658 Ga658						
		Appearance							
705									
TRANSPLANTING TREES	Plant Topsoil	Organic Content	DOT-408 Ga408						
		Gradation GDT-4							
	Mulch	Moisture Content GDT-41	Misc. GACERT						
	Other Materials	Certification from Department of Agriculture	GACERT						
706									
TURF ESTABLISHMENT	Seed	Purity, Germination & Noxious Weed Content Tested by Agriculture Dept.	GACERT	Crown-vetch ½ pt Grains: 1 qt. Others: 1 pt.	Acceptance based on analysis tag attached to each bag; 1 sample per Lot if test date more than 9 months old			Enough in advance so that results are known before use	
	Agriculture Lime		GACERT	1 lb.	Pre-inspected with Department of Agriculture Stamp			See GSP-12	
	Fertilizer		GACERT	1 lb.	Pre-inspected with Department of Agriculture Stamp				
	Mulch	Moisture Content GDT-41	GACERT		Acceptance based on Project				
	Asphalt Emulsion	Specification Requirements T59	GACERT	1 qt.	QPL-7 & Visual Inspection			Before application	

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Inoculants		GACERT		Acceptance based on Project Inspection by Engineer*				*Check for evidence of excessive heat
	Bermuda Sprigs		GACERT		Acceptance based on Project Inspection				
	Sod		GACERT		Acceptance based on Project Inspection				
	Bags for Sod		GACERT		Acceptance based on Project Inspection				
	Plant Topsoil	Organic Content	DOT-408 Ga408		Approved by Office of Materials & Research; 1 per proposed Source				
		Gradation GDT-4							
	Soil	Soil Fertility GDT-77	GACERT	1 qt.	Notify Lab Test Supervisor II				See GSP-18 for sampling frequency
	Wood Fiber Mulch	Moisture Content GDT-41	GACERT		QPL-25				
		pH							
	Tackifiers		Misc. GACERT		QPL-33				
	Other Materials	Certification from Department of Agriculture	GACERT						
708									
PLANT TOPSOIL	Plant Topsoil	Organic Content	DOT-408 Ga408	30 lbs.	Approved by Office of Materials & Research; 1 per proposed Source				Approval prior to use
		Gradation GDT-4							
710									
PERMANENT SOIL REINFORCEMENT MAT	Preformed Mat	Ultraviolet Stability ASTM D822	Misc. GACERT		QPL-49				
		Thickness							
		Weight							
		Width							
		Tensile Strength ASTM D5034							
Wood Stakes	As Specified			Visual Inspection					
	Grassing								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Seed	Purity, Germination & Noxious Weed Content Tested by Agriculture Dept.	GACERT	Crown-vetch 1/2 pt. Grains: 1 qt. Others: 1 pt.	Acceptance based on analysis tag attached to each bag; 1 sample per Lot if test date more than 9 months old.			Enough in advance so that results are known before use	
	Agriculture Lime		GACERT	1 lb.	Pre-inspected with Department of Agriculture Stamp				See GSP-12
	Fertilizer		GACERT	1 lb.	Pre-inspected with Department of Agriculture Stamp				
	Mulch	Moisture Content GDT-41	Misc. GACERT		Acceptance based on Project				
	Asphalt Emulsion	Specification Requirements T59	GACERT	1 qt.	QPL-7 & Visual Inspection			Before application	
	Inoculants		GACERT		Acceptance based on Project Inspection by Engineer*				*Check for evidence of excessive heat
	Bermuda Sprigs		GACERT		Acceptance based on Project Inspection				
	Sod		GACERT		Acceptance based on Project Inspection				
	Bags for Sod		GACERT		Acceptance based on Project Inspection				
	Plant Topsoil	Organic Content Gradation GDT-4	DOT-408 Ga408		Approved by Office of Materials & Research; 1 per proposed Source				
	Soil	Soil Fertility GDT-77	GACERT	1 qt.	Notify Lab Test Supervisor II				See GSP-18 for sampling frequency
	Wood Fiber Mulch	Moisture Content GDT-41 pH	Misc. GACERT		QPL-25				
	Tackifiers		Misc. GACERT		QPL-33				
	Other Materials	Certification from Dept. of Agriculture	GACERT						
	Plastic Filter Fabric - Woven	Tensile Strength ASTM D4632	Misc. GACERT		QPL-28				

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
		Bursting Strength <i>ASTM D3786</i>								
		Elongation <i>ASTM D4632</i>								
		Percent Open Area <i>GDT-88</i>								
	Plastic Filter Fabric – Non-Woven	Puncture Resistance <i>ASTM D4833</i>	Misc. GACERT		QPL-28					
		Grab Tensile Strength <i>ASTM D4632</i>								
		Grab Elongation <i>ASTM D4632</i>								
		Flowrate <i>GDT-87</i>								
713										
ORGANIC MATERIAL FIBER BLANKET	Straw Blanket	Width	Misc. GACERT		QPL-62					
		Weight								
		Thickness								
		Mesh Size								
	Excelsior Blanket	Width	Misc. GACERT		QPL. 62			Stock		
		Weight								
		Thickness								
		Mesh Size								
	Coconut Fiber Blanket	Width	Misc. GACERT		QPL-62					
		Weight								
		Thickness								
		Mesh Size								
	Wood Fiber Blanket	Width	Misc. GACERT		QPL-62					
		Weight								
		Mesh Size								
	Anchoring Staples	<i>As Specified</i>				Acceptance based on Project Inspection				
714										
JUTE MESH EROSION CONTROL	Jute Mat	Width	Misc. GACERT		Contractor Certification & Visual Inspection			Stock		
		Weight								
		Thread Count								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS	
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE			
	Anchoring Staples	<i>As Specified</i>			Acceptance based on Project Inspection					
715										
BITUMINOUS TREATED ROVING	Fiber Material				QPL-24					
	Asphalt Emulsion	Specification Requirements 759	DOT-325M GA325M	1 qt.	QPL-7	One per Project		Distributor		
716										
EROSION CONTROL MATS	Straw Blanket	Width	Misc. GACERT		QPL-62					
		Weight								
		Thickness								
		Mesh Size								
	Excelsior Blanket	Width	Misc. GACERT		QPL-62					
		Weight								
		Thickness								
		Mesh Size								
	Coconut Fiber Blanket	Width	Misc. GACERT		QPL-62					
		Weight								
		Thickness								
		Mesh Size								
	Wood Fiber Blanket	Width	Misc. GACERT		QPL-62					
		Weight								
		Mesh Size								
	Jute Mat	Width	Misc. GACERT		Contractor Certification & Visual Inspection			Stock		
Weight										
Thread Count										
718										
WOOD FIBER	Wood Fiber Mulch	Moisture Content GDT-41 pH	Misc. GACERT		QPL-25					
819										
FIBER STABILIZING ADDITIVES	Cellulose Fibers	Fiber Length	GACERT		QPL-77					
		Sieve Analysis								
		Ash Content								

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS		
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE				
		pH									
		Oil Absorption									
		Moisture Content									
	Cellulose Pellets	Pellet Size	GACERT		QPL-77						
		Asphalt Cement									
	Mineral Fibers	Size Analysis	GACERT		QPL-77						
		Shot Content ASTM C612									
		Degradation GDT-124									
833											
JOINT FILLERS & SEALERS	Preformed Joint Filler	M153 or M213	Misc. GACERT	10 in.	QPL-20			Stock	Sample in accordance with SOP-17		
	Hot Pour Joint Sealers	Penetration GDT-62	Misc. GACERT	8 lb. kit	Pre-inspected by Central Lab; 1 sample per shipment			Stock			
		Flow GDT-62									
		Resilience GDT-62									
		Bond GDT-62									
		Compatibility GDT-62									
	Elastomeric Polymer Type Joint Compound	Cone Penetration GDT-15	Misc. GACERT	1 kit	Pre-inspected by Central Lab; 1 sample per shipment			Stock			
		Solubility GDT-15									
		Resilience GDT-15									
		Flow GDT-15									
		Bond GDT-15									
	Preformed Elastic Joint Sealer	Tensile Strength ASTM D412	Misc. GACERT	36 in.	Pre-inspected by Central Lab; 1 sample per shipment			Stock			
		Elongation at Break ASTM D412									
		Hardness ASTM D2240									
		Oven Aging ASTM D573									
		Oil Swell ASTM D471									
		Ozone Resistance ASTM D1149									
Joint Sealer Recovery GDT-47											
Compression/Deflection GDT-70											

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
	Water-Blown Urethane Joint Filler	Specification 833.05	Misc. GACERT		Certified Mill Test Report				
	Silicone Sealant	Tensile Stress ASTM 412	Misc. GACERT		QPL-66 or 1 sample per batch, per Type			Stock	
		Hardness ASTM D2240							
		Bond GDT-106							
		Tack Free Time GDT-106							
		Extrusion GDT-106							
		Non-Volatile GDT-106							
		Specific Gravity ASTM D792							
		Adhesion GDT-106							
	Resistance ASTM C793								
	Bond Breakers - Rods	Density ASTM D1622	Misc. GACERT	6 ft	Pre-inspected by Central Lab & Certified Mill Test Report; 1 sample per shipment			Stock	
		Tensile Strength ASTM D1623							
		Water Absorption ASTM C1061							
	Bond Breakers - Tape	Thickness	Misc. GACERT		Certified Mill Test Report				
	Neoprene for Bridge Deck Joint Seal	Specification 833.07	Misc. GACERT		Certified Mill Test Report				
	Ethylene Propylene Diene Monomer for Bridge Deck Joint Seals	Specification 833.08	Misc. GACERT		Certified Mill Test Report				
	Polyurethane Sealant for Inductive Loops	Hardness ASTM D2240	Misc. GACERT		QPL-75				
		Tensile Strength ASTM D412							
		Elongation ASTM D412							
		Flexibility							

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	GUIDE FREQUENCY			LOCATION OR TIME OF SAMPLING	REMARKS
					ACCEPTANCE	QUALITY ASSURANCE	INDEPENDENT ASSURANCE		
		Weather Resistance <i>ASTM D822</i>							
	Preformed Foam Joint Filler	<i>Specification 833.10</i>	Misc. GACERT		Certified Mill Test Report				
883									
MINERAL FILLER		Sieve Analysis <i>T11 & T27</i>	GACERT		QPL-81				
886									
EPOXY RESIN ADHESIVES	Epoxy Adhesives	Pot Life <i>GDT-58</i>	Misc. GACERT	1 kit	QPL-15 <i>or</i> one sample per batch, per Type		Stock		
		Elongation <i>GDT-58</i>							
		Bond Strength <i>GDT-58</i>							
		Hardness <i>ASTM D2240</i>							
		Sag Test <i>T237</i>							
		Wet Bond Test <i>T237</i>							