

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			
163									
MISCELLANEOUS EROSION CONTROL	Lumber & Timber				Visual Inspection by Project Engineer				
	Concrete	Compression Strength GDT-35 & T22	DOT-319	2 cylinders	See NOTE 1		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		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	DOT-168			QPL-24			
		Certification							
	Bituminous Material	Viscosity T59		1 gal.		QPL-7	Before application		
Erosion Control Mats									
Straw	Width	DOT-168			QPL-62				
	Weight								
	Thickness								
	Mesh Size								
	Stitch Pattern								
Excelsior	Width	DOT-168			QPL-62				
	Weight								
	Thickness								
	Mesh Size								
	Stitch Pattern								
Coconut Fiber	Width	DOT-168			QPL-62				
	Weight								
	Thickness								
	Mesh Size								
	Stitch Pattern								
Wood Fiber	Width	DOT-168			QPL-62				
	Weight								
	Mesh Size								
Jute Mesh	Width	DOT-168		Contractor Certification & Visual Inspection					
	Weight								
	Thread Count								

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	Silt Fence Wood Post	Spacing	DOT-168			One section per Project		
		Length						
		Area						
	Steel Post	Spacing	DOT-168			One section per Project		
		Shape						
		Weight						
	Woven Wire	Height	DOT-168			One section per Project		
		Vertical & Horizontal Spacing						
		Diameter						
		Number of Wires						
	Fasteners	Dimensions	DOT-168			One per Project		
		Spacing						
	Silt Fence Fabric	Tensile Strength ASTM D4632	DOT-168		QPL-36	One per Project		
		Elongation ASTM D4632						
		AOS ASTM D4751						
		Flowrate GDT-87						
		Bursting Strength ASTM D3786						
Width								
Condition of Fabric								
C-System	Physical Properties	DOT-168		QPL-36	One per Project			
171								
TEMPORARY SILT FENCE	Wood Post	Spacing	DOT-168		Visual Inspection	One per Project		
		Length						
		Area						
	Steel Post	Spacing	DOT-168		Visual Inspection	One per Project		
		Shape						
		Weight						
		Galvanization ASTM A123						
	Woven Wire	Height	DOT-168		Visual Inspection	One per Project		
		Vertical & Horizontal Spacing						
		Diameter						
		Number of Wires						
	Fasteners	Dimensions	DOT-168		Visual Inspection	One per Project		
		Spacing						
Silt Fence Fabric	Tensile Strength ASTM D4632	DOT-168		QPL-36	One per Project			

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		Elongation ASTM D4632							
		AOS ASTM D4751							
		Flowrate GDT-87							
		Bursting Strength ASTM D3786							
		Width							
	Condition of Fabric								
C-System	Physical Properties	DOT-168		QPL-36	One per Project				
205									
ROADWAY EXCAVATION	Embankments (to within 1 ft of top)	Theoretical Density GDT-7 or GDT-67	DOT-408 /DOT-97	30 lbs.	One per major soil Type		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		One per 5,000 yd ³		Completed Lift		
	Rock	Gradation Visual	DOT-658		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 / DOT-97						Requires approval by Pit & Quarry
		Volume Change GDT-6							
		Density GDT-7 or GDT-67							
206									
BORROW EXCAVATION	Soil	Gradation GDT-4	DOT-408 / DOT-97		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 / DOT-97	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	
		Percent Clay GDT-4							
		Theoretical Density GDT-7 or GDT-67							

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		Volume Change GDT-6						submitted to the Branch or Central Lab for testing, unless provisions are made for testing on the Project.	
		In-Place Density GDT-20, GDT-21, GDT-55 & GDT-59	DOT-553			One per 500 yd ³ or 1 per 3 structures	Completed Course		
	Type II – Backfill Aggregate	Gradation T27	DOT-658	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 / DOT-97	30 lbs.	One per major soil Type		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			One per 5,000 yd ³		Completed Lift	
	Rock	Gradation Visual	DOT-658		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 / DOT-97						Requires approval by Pit & Quarry
Volume Change GDT-6									
Density GDT-7 or GDT-67									
209									

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SUBGRADE & SUBGRADE STABILIZATION	Subgrade (See NOTE)	Theoretical Density GDT-7 or GDT-67	DOT-408 DOT-495 DOT-97	35 lbs.	One per 1,500 ft, per 2 lanes, per Lift		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 DOT-97	45 lbs.	One per 1,500 ft, per two lanes, per Lift		Completed Lift	
		Gradation GDT-4						
		Volume Change GDT-6						
		Classification Section 810						
Stabilizer Aggregate – Types I & III	Gradation T27	DOT-658	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	45 lbs.	One per 1,500 ft, per 2 lanes		Completed Course		
Type II – Aggregate	Gradation T27	DOT-658	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							
Soil	Gradation GDT-4	DOT-408 / DOT-97			Class II, B-3 or better			
	Percent Clay GDT-4							
	Volume Change GDT-6							
	Density GDT-7 or GDT-67							
	Classification Section 810							

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	Type IV – Sand	Gradation T27 Sand Equivalent GDT-63	DOT-658			Notify Central Lab		Requires approval by Pit & Quarry
211								
EXCAVATION & BACKFILL FOR BRIDGE FOUNDATIONS	Type I – Class I & II Soils	Gradation GDT-4	DOT-408 / DOT-97	30 lbs.	One per 3 structures or 1 per Project		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.
		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		One per 10 ft of backfill depth, per end bent		Completed Course	
	Type II - Aggregate	Gradation T27	DOT-658	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	
212								
GRANULAR EMBANKMENT	Soil	Gradation GDT-4	DOT-408 / DOT-97		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		One per 5,000 yd ³			
216								
UNPAVED SHOULDERS	Select Material & Impervious Material	Theoretical Density GDT-7, GDT-24, GDT-48, GDT-49 & GDT-67	DOT-408 / DOT-97	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						

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	Soil	In-Place Density (Ungrassed) GDT-20, GDT-21 or GDT-59	DOT-553		One per mile, per shoulder		Completed Course	Ungrassed shoulders only	
		Gradation GDT-4	DOT-408 / DOT-97		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 GDT-4	DOT-658 DOT-408 DOT-97	30 lbs.	Approved by Office of Materials & Research	One sample per proposed Source			
		Organic Content							
		Classification Section 810							
219									
CRUSHED AGGREGATE SUBGRADE	Graded Aggregate	GDT-49	DOT-658	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.	Roadway		
		Gradation T27							
		Sand Equivalent GDT-63							
	In-Place Material	Thickness Measurement GDT-42	DOT-176						
		In-Place Density GDT-21 or GDT-59	DOT-553		One per 1,500 ft, per 2 lanes		Completed Course		
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 / DOT-97	35 lbs.	One per 1,500 ft, per 2 lanes, per Lift		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							

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		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 / DOT-97	45 lbs.	One per 1,500 ft, per two lanes, per Lift		Completed Lift	
		Gradation GDT-4						
		Volume Change GDT-6						
		Classification Section 810						
Stabilizer Aggregate – Types I & III		Gradation T27	DOT-658	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	45 lbs.	One per 1,500 ft, per 2 lanes		Completed Course	
Type II – Aggregate		Gradation T27	DOT-658	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	
		Sand Equivalent GDT-63						
Soil		Gradation GDT-4	DOT-408 / DOT-97		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		Notify Central Lab			
		Sand Equivalent GDT-63						

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AGGREGATE DRAINAGE COURSES	All Types of Aggregate for Drainage	Gradation T27	DOT-658	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.	Roadway	
		Thickness Measurement GDT-42	DOT-176		One per 1,500 ft, per 2 lanes		Completed Course	When required
225								
SOIL LIME CONSTRUCTION	Soil	Gradation GDT-4	DOT-408 / DOT-97	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						
	Hydrated Lime	Physical & Chemical Analysis M216-84	Misc. DOT-168	1 qt.*	QPL-41	One per 2,000 tons, per Source	Stock	*air-tight container
		Water	Physical & Chemical Analysis T26	DOT-088	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	30 lbs.	One per Soil Type <u>or</u> 1 per compaction*		In-Place Material (before Compacting)
	In-Place Density GDT-20, GDT-21 or GDT-59							
	Thickness Measurement GDT-42	DOT-176		One per 1,500 ft, per 2 lanes, per Lift		Completed Course		