					GUIDE FR	REQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
`500								
CONCRETE	Portland	Air Content <b>T137</b>						
STRUCTURES	Cement	Fineness M85			QPL-3			
		Autoclave M85				One per Quarter, per		
		Compressive Strength M85	DOT-175	10 lbs.		Source, per District	Stock	
		Vicat <b>T131</b>						
		Chemical M85						
	Portland Pozzolan	Air Content <b>T137</b>						
	Pozzolan Cement	Fineness M240						
		Autoclave M240				One per Querter per		
		Compressive Strength M240	DOT-175	10 lbs.	QPL-3	One per Quarter, per Source, per District	Stock	
		Vicat <b>7131</b>						
		Chemical M240						
	Portland Slag	mont				One per Quarter, per		
	Cement	Fineness M240	DOT-175	10 lbs.	QPL-3	Source, per District	Stock	
		Air Content T137						
	Blended	Fineness M240						
	Hydraulic Cement	Autoclave M240		20 lbs.	QPL-3	One per Quarter, per Source, per District	Stock	
	Comoni	Compressive Strength M240	- DOT-175					
		Vicat <b>T131</b>						
		Chemical M240 Physical & Chemical ASTM C311						
	Fly Ash	Fineness M295						
		Activity <b>M295</b>						
		Soundness M295	1			One per Quarter, per		
		Density M295	DOT-175	10 lbs.	QPL-30	Source, per District	Stock	
		Chemical <b>M295</b>	1					
	Slag	Fineness M302						
		Activity M302	DOT-175	10 lbs.	QPL-30	One per Quarter, per Source, per District	Stock	
		Soundness M302	1 201-170				Clock	
	I	Density M302	]					

Coarse Aggregate  Fine Gradation 727 Aggregate  Fine Gradation 727 Aggregate  Water  Quality of Water to be Used in Concrete 726  Air Entraining Admixtures Chemical Admixtures Chemical Admixtures Steel Bars for Reinforcement  Eine Gradation 727  DOT-658  DOT-168  DOT-168  1 qt.*  One per month, per active plant. One per month per active plant. One per unpotable Source, per month One per unpotable Source, per month One per of months, per Source, per month One per of months, per Source, per District  One per 6 months, per Source, per District One per 6 months, per Source, per Dis	
Aggregate   Sand Equivalent GDT-63   20 lbs.   active plant.   Belt	
Water Used in Concrete 726 DOT-088 1 qt.* One per unpotable Source, per month  Air Entraining Admixtures for Concrete M154  Chemical Admixtures  Chemical M94  Weight M31M  Dimensions M31M  Deformation Spacing M31M  Height & Gap M31M  Tensile Strength 7244  Yield Strength 7244  Elongation 7244  Elongation 7244  Bend Test 7285  Chemical M31M  Size M32M  Size M32M  Size M32M  DOT-168  1 qt. QPL-13  One per 6 months, per Source, per District  Stock  Ready Mix Plant Stock  Stock  POT-168  1 qt. QPL-14  QPL-14  QPL-14  One per 6 months, per Source, per District  Stock  Ready Mix Plant Stock  Stock  Part Gorden Admixtures  Arabicator  Part Gorden Admixtures  Famour Admixtures  Chemical M31M  Size M32M  Size M32M	
Entrainment Admixtures  Chemical Admixtures  Chemical Admixtures  Concrete M194  Steel Bars for Reinforcement  Weight M31M  Deformation Spacing M31M  Height & Gap M31M  Tensile Strength T244  Yield Strength T244  Elongation T244  Bend Test T285  Chemical M31M  Source, per District  Stock  One per 6 months, per Source, per District  Stock  QPL-14  QPL-14  QPL-14  QPL-12 & QPL-61 W/Certified Mill Test Reports.  Random sampling at Fabricator or Jobsite storage  Supplier, Fabricator or Jobsite storage  Steel Wire for Reinforcement  Size M32M	on-metal container
Admixtures  Concrete M194  Steel Bars for Reinforcement  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  Steel Wire for Reinforcement  Concrete M194  Source, per District  Stock  Application Spacing Application Stock  Application Stock  QPL-12 & QPL-61 W/Certified Mill Test Reports.  Random sampling at Fabricator or Jobsite storage  Supplier, Fabricator or Jobsite storage	
Reinforcement  Weight M31M  Dimensions M31M  Deformation Spacing M31M  Height & Gap M31M  Tensile Strength T244  Yield Strength T244  Elongation T244  Bend Test T285  Chemical M31M  Size M32M  Size M32M  Size M32M	
Deformation Spacing M31M  Height & Gap M31M  Tensile Strength T244  Yield Strength T244  Elongation T244  Bend Test T285  Chemical M31M  Steel Wire for Point or Poin	
Deformation Spacing M31M Height & Gap M31M Tensile Strength T244 Yield Strength T244 Elongation T244 Bend Test T285 Chemical M31M  Steel Wire for Paintersement  Size DOT-166  DOT-166  1 pc @ 24" per size	
M31M   Height & Gap M31M   Tensile Strength T244   Yield Strength T244   Elongation T244   Bend Test T285   Chemical M31M   Steel Wire for Paintersement   Size M32M   DOT-166	
Tensile Strength T244 Yield Strength T244 Elongation T244 Bend Test T285 Chemical M31M Steel Wire for Paintograment Steel Wire for Paintograment	
Tensile Strength 7244 Yield Strength 7244 Elongation 7244 Bend Test 7285 Chemical M31M Steel Wire for Paintersement Size Reports. Fabricator  or Jobsite storage	
Elongation 7244  Bend Test 7285  Chemical M31M  Steel Wire for Paintograment  Size M32M	
Bend Test 7285 Chemical M31M Steel Wire for Peinforcement	
Chemical M31M  Steel Wire for Paintoursement  Reinforcement	
Steel Wire for Size M32M	
Reinforcement	
Reinforcement Diameter M32M	
Area M32M	
Tensile Strength 7244 Certification 24" per Certified Mill Test Random sampling Jobsite storage and/or producer	
Yield Strength <b>7244</b> Report  Report  Report	
Area Reduction <b>7244</b>	
Bend Test M32M	
Welded Steel Size M55M	
Wire Fabric for Reinforcement Diameter <b>M55M</b> Spl. 55 w/Cartified	
Reinforcement Area M55M Certification 2' X 2' QPL-55 w/Certified Mill Test Report Random sampling Substitution and Company Control of the Company Comp	
Tensile Strength <b>7244</b> stock	

							]
Welded Steel Wire Fabric for	Yield Strength <b>T244</b> Area Reduction <b>T244</b>						
Reinforcement	Area Reduction 1244						
	Width <b>M55M</b>						
	Length M55M						
	Spacing <i>M55M</i>						
Permanent Steel Bridge Deck Forms	ASTM A446 & ASTM A525	Certification		Certified Mill Test Report			
Prestress Stay- In-Place Panels (SIPS)		OMR-122		QPL-9, OMR-122 & Plant Stamp			
Dowel Bars	Number <i>M31M</i>						
	Weight <b>M31M</b>						
	Dimensions M31M						
	Deformation Spacing <b>M31M</b> *						
	Height & Gap <i>M31M</i> *		3 bars in	QPL-43 w/Certified			*N/A for Plain Dowel
	Tensile Strength T244	DOT-166A	basket assembly	Mill Test Report			Bars
	Yield Strength T244		assembly				
	Elongation T244						
	Bend Test T285						
	Chemical M31M						
	Coating <b>853.08</b>						
Damp proofing or Waterproofing Membrane	Specification Requirements <i>M115</i> , <i>M118 or M121</i>	Certification	1 qt.	One per Type, per Source		Before application	
Curing Agent	Specification for Liquid Membrane Curing <b>M148</b>	DOT-168		QPL-16		Stock	
Concrete	Compression Strength GDT-35 & T22	DOT-319	2 cylinders	See NOTE 1			
	NOTE 1: One set per each Coping. Two Concrete cylir shall not be fabricated at on	nders shall be fabrica	ated for each	cumulative 50 yd3 or fra	ction thereof, of Concrete p	placed per week in each	structure. Cylinders
	Air Content GDT-26 or GDT-32					Placement site	Additional Slump test will be required when
	Slump <i>GDT-27</i>	DOT-319	See NOTE 2	When cylinders are made			Water is added on Project

					GUIDE F	REQUENCY						
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS				
		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.										
	Bridge Deck Thickness	Thickness Measurement GDT-131		One ¾ inch boring	One per 5 spans		After all phases of bridge deck slab construction are completed					
	Concrete for Pipe Head-	Air Content GDT-26 & GDT-35	DOT-319	See			During pouring					
	Walls, Spillways,	Slump GDT-27		NOTE 3			operation					
	Slope Drains,	NOTE 3: Acceptance of Co	ncrete for these item	ns is based up	oon results of Slump, Air	r & Mix Temp. tests & the pr	roperly documented DO	Γ-319. No cylinders are				
	Highway Signs Guardrails, Misc. Drainage Structures, Highway Light, Fence, see Note 4	required. Air & Slump tests are performed NOTE 4: For items listed and				e requirements.						
	Concrete used in mow strips under cable barrier	<b>Note:</b> Acceptance of Concrefrequency of 1 set per 350 cm				Temp. & cylinders documen	nted on DOT-319. Cylino	ders are required at a				
	Silicone	Tensile Stress ASTM D412			QPL-66							
	Sealant	Durometer ASTM D2240	168 Certification									
		Bond <i>GDT-106</i>	Certification									
		Tack Free Time GDT-106										
		Extrusion GDT-106										
		Non-Volatile <i>GDT-106</i>										
		Specific Gravity <b>ASTM D792</b>										
		Adhesion GDT-106										
		Resistance ASTM C793										
	Ероху	Pot Life GDT-58	Misc. DOT-	1 kit	QPL-15 or 1 sample,		Stock					
	Adhesive	Elongation GDT-58	168 Certification		per batch, per Type							
		Bond GDT-58	Gertinication									
		Hardness ASTM 2240										

TYPE CONSTRUCTION MATERIAL TEST PROCEDURES Name & Number SM Report SIZE OF SAMPLE  Reduction of Area ASTM A370 Chemical ASTM A709 Cold Finished Carbon Shafting  Steel Castings Tensile Strength 7244 Yield Strength 7244 Peduction of Area 7244 Dimensions Certification  Paints Pigment ASTM D2371 Non-Volatile Vehicle  REPORT SM Report  SIZE OF SAMPLE ACCEPTANCE QUALITY ASSURANCE  COLD FINE ACCEPTANCE QUALITY ASSURANCE LOCATION OR TIME OF SAMPLING COCATION OR TIME OF SAMPLING COCATION OR TIME OF SAMPLING CERTIfication Certification Certification Certification Certification Certification  QPL-73 w/Certifications			SAG Test <b>AASHTO T237</b>						
Steel Casting   Continued									
Steel Casting   Continued									
Shelf Life Graffiti-Proof Coating  Charry ASTM E23 Thickness Yield Strength ASTM A370 Elongation ASTM A370 Elongation ASTM A370 TTPE CONSTRUCTION  TEST PROCEDURES AND A370 Hardness ASTM A370 Certification  Continued A370  Test Strength ASTM A370 Elongation ASTM A370 Continued									
Graffiti-Proof Coating  Charpy ASTM E23 Thickness Trickness Trickn									
STRUCTURES  Thickness Trickness Tinchess Trickness Tinchess Trickness Trickn			Shelf Life						
STERUCTURES    Charpy ASTM E23   Thickness   Thickness				Certification		QPL-42			
Charpy ASTM E23   Thickness		Coaling							
Thickness Yield Strength ASTM A370 Tensile Strength T244 Tensile	501								
Titionities  Yield Strength ASTM A370 Tensile Strength ASTM A370  Elongation ASTM A370  Elongation ASTM A370  TYPE CONSTRUCTION  MATERIAL  Reduction of Area ASTM A370  Certification  Type Construction  Cold Finished Carbon Shafting  Steel Castings  Steel Castings  Steel Castings  Steel Castings  Certification  Paints  Pigment ASTM D371  Reduction of Area ASTM Reduction Certification  Paints  Pigment ASTM D3371 Non-Volatile Vehicle		`	Charpy ASTM E23						
Tresile Strength ASTM A370 Tensile Strength ASTM A370 Tensile Strength ASTM A370 Toll minimenbers only)  TYPE CONSTRUCTION TYPE CONSTRUCTION  A370  Test PROCEDURES Name & Number SM Report  ACCEPTANCE  QUALITY ASSURANCE  LOCATION OR TIME OF SAMPLING  Test Report  Certification  Certification  Certification  Certification  Certification  Test Report  Certified Mill Test	SIRUCTURES					Contitional Maill Tout			Committee or in
Tensile Strength ASTM A370  Tensile Strength ASTM A370  Elongation ASTM A370  Elongation ASTM A370  TYPE CONSTRUCTION  TYPE CONSTRUCTION  MATERIAL  TEST PROCEDURES Name & Number SM Report  Reduction of Area ASTM A370  Hardness ASTM A370  Chemical ASTM A709  Chemical ASTM A709  Chemical ASTM A709  Certification  Certification  Steel Castings  Chemical M103  Tensile Strength 7244  Elongation 7244  Elongation 7244  Reduction of Area 7244  Dimensions  Certification  Paints  Paints  Paints  Tensile Strength D2371  Non-Volatile Vehicle  Tensile Strength D2371  Non-Volatile Vehicle  Tof Materials & GDT stamped of M			Yield Strength ASTM A370		is in	Report, pre- inspected by Office		Fabrication shop	Accordance with
Elongation ASTM A370  TYPE CONSTRUCTION  MATERIAL  TEST PROCEDURES Name & Number SM Report  Reduction of Area ASTM A370 Chemical ASTM A370 Chemical ASTM A709 Cortification  Steel Castings Tensile Strength 7244 Field Strength 7244 Elongation 7244 Reduction of Area T244 Dimensions Certification  Paints  Pigment ASTM D2371 Non-Volatile Vehicle  REPORT SM Report  SIZE OF SAMPLE ACCEPTANCE QUALITY ASSURANCE QUALITY ASSURANCE COCATION OR TIME QUALITY ASSURANCE COCATION OR TIME REMARKS  C					of	of Materials & GDT		·	Supplemental Specifications 501.01
TYPE CONSTRUCTION MATERIAL TEST PROCEDURES Name & Number SM Report SAMPLE ACCEPTANCE QUALITY ASSURANCE OF SAMPLING REMARKS  RECURSION OF A ASTM A370 Chemical ASTM A709 Chemical ASTM A709 Certification Certification  Steel Castings Steel Castings Chemical M103 Tensile Strength T244 Field Strength T244 Elongation T244 Reduction of Area T244 Dimensions Certification Paints Pigment ASTM D2371 Non-Volatile Vehicle  OINIY) GUIDE FREQUENCY LOCATION OR TIME OF SAMPLING Certified Mill Test Report  Certified Mill Test Report  Certified Mill Test Report  Certification  QPL-73 w/Certifications			Flongation ASTM A370		members				
TYPE CONSTRUCTION  MATERIAL  Reduction of Area ASTM A370 Hardness ASTM A370 Chemical ASTM A709 Chemical M103 Tensile Strength T244 Field Strength T244 Dimensions Certification Paints Pigment ASTM D2371 Non-Volatile Vehicle  Report  SIZE OF SAMPLE ACCEPTANCE QUALITY ASSURANCE QUALITY ASSURANCE QUALITY ASSURANCE COLOTION OR TIME OF SAMPLING  REMARKS  Certified Mill Test Report  Certified Mill			Elongation Aortin Aort		only)	CHIDE E	DECHENCY		
CONSTRUCTION MATERIAL Name & Number SM Report SAMPLE ACCEPTANCE QUALITY ASSURANCE OF SAMPLING REMARKS  Reduction of Area ASTM A370 Chemical ASTM A709 Cold Finished Carbon Shafting Steel Castings Certification Certification  Certification		ı				GOIDE F	I REQUENCT		
A370 Hardness ASTM A370 Chemical ASTM A709 Cold Finished Carbon Shafting Certification		MATERIAL				ACCEPTANCE	QUALITY ASSURANCE		REMARKS
Cold Finished Carbon Shafting  Steel Castings  Certification  Certification  Certification  Certification  Certification  Certification  Certified Mill Test Report									
Cold Finished Carbon Shafting  Certification  Certification  Certification  Certification  Certified Mill Test Report  Certified Mill Test Rep									
Carbon Shafting  Certification			<b>4</b>						
Shafting Certification Report  Steel Castings Chemical M103 Tensile Strength T244 Yield Strength T244 Elongation T244 Reduction of Area T244 Dimensions Certification  Paints Pigment ASTM D2371 Non-Volatile Vehicle Report  Certification Report  Certification  Certification  Report  Certification  Certification  QPL-73 w/Certifications						Certified Mill Test			
Tensile Strength 7244 Yield Strength 7244 Elongation 7244 Reduction of Area 7244 Dimensions Certification  Paints Pigment ASTM D2371 Non-Volatile Vehicle  Tensile Strength 7244  Certification  Certification  Certification  Certification  QPL-73 w/Certifications		Shafting	Certification	Certification					
Yield Strength 7244 Elongation 7244 Reduction of Area 7244 Dimensions Certification  Paints Pigment ASTM D2371 Non-Volatile Vehicle  Certification Certification  Certification  Certification  QPL-73 w/Certifications		Steel Castings	Chemical M103						
Elongation 7244 Reduction of Area 7244 Dimensions Certification Paints Pigment ASTM D2371 Non-Volatile Vehicle  Certification Certification Certification Certification  QPL-73 w/Certifications			Tensile Strength T244						
Reduction of Area T244  Dimensions Certification  Paints Pigment ASTM D2371 Non-Volatile Vehicle  Certification Report  Report  Report  QPL-73 w/Certifications			Yield Strength T244						
Reduction of Area 7244  Dimensions Certification  Paints Pigment ASTM D2371 Non-Volatile Vehicle  Reduction of Area 7244  Dimensions  Certification  QPL-73 w/Certifications			Elongation T244	Certification					
Certification Paints Pigment ASTM D2371 Certification QPL-73 w/Certifications Non-Volatile Vehicle			Reduction of Area <b>T244</b>			Report			
Paints Pigment ASTM D2371 Certification QPL-73 w/Certifications			Dimensions						
Non-Volatile Vehicle			Certification						
		Paints	Pigment ASTM D2371	Certification		QPL-73 w/Certification	S		
Grind			Non-Volatile Vehicle						
			Grind						
Viscosity ASTM D562			Viscosity ASTM D562						

		Dry Time ASTM D711  Percent Volatile  Weight per Gallon ASTM D1475  Color  Certification						
	Steel Bolts, Nuts & Washers	ASTM A307 Chemical ASTM F568 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	Certification	3 bolts	Certified Mill Test Report		Stock	Independent Assurance: sample occasionally
	High Tensile Strength Bolts,	or ASTM E376 ASTM F3125	Certification	3 bolt assemblie s	Certified Mill Test Report		Fabricator or Supplier	Sample for each Project
					GUIDE F	REQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
	Nuts & Washers  Anchor Bolts	Chemical ASTM F568 Yield Strength ASTM F606 Tensile Strength ASTM F606 Elongation ASTM F606 Reduction of Area ASTM F606	Certification	(bolt, washers, nut), per Rotational Capacity Lot Number (RCT)  1 bolt per diameter	Certified Mill Test		Fabricator or	
		Hardness ASTM F606 Rotation ASTM A325 Diameter Thread Dimension Galvanization ASTM A90 or ASTM E376		diameter, per Heat Number, per Project	Report		Supplier	

	Grade As Specified on Plans					
	Yield Strength T244	_				
	Tensile Strength T244					
	Elongation T244					
	Reduction of Area T244					
	Thread Dimensions					
	Size					
	Diameter					
	Length					
	Chemical					
Shear	Charpy ASTM E23	Certification		QPL-6 w/Certified		
Connectors	Thickness			Mill Test Report		
	Yield Strength <b>ASTM</b> <b>A370</b>					
	Tensile Strength ASTM A370	_				
	Elongation ASTM A370					
	Reduction of Area <b>ASTM</b> <b>A370</b>	-				
	Hardness <b>ASTM A370</b>	_				
	Chemical <b>ASTM A709</b>					
	Length					
Elastomeric	Hardness ASTM D2240	Certification	1 pad per	Pre-inspected &	 Supplier	Independent
Bearing Pads	Tensile Strength ASTM D412		Lot Number, per size,	GDT stamped by Office of Materials		Assurance: sample occasionally
	Elongation ASTM D412		per			
	Heat Resistance <b>ASTM D573</b>		Project			
	Compression Set <b>ASTM D395</b>	_				
	Brittleness ASTM D746					
	Dimensions					
	Laminate Thickness					
	Tensile Strength <i>M183</i>	_				
	Yield Strength M183					

		Elongation M183					
	Plain Cotton Duck	Certification	Certification		Certified Mill Test Report		
	Rubber Impregnated Cotton Duck		Certification		Certified Mill Test Report		
	Galvanizing	ASTM A90 or ASTM E376				 	
	Self- Lubricating Bronze Bearing & Expansion Plates & Bushings		Certification		Certified Mill Test Report		
502							
TIMBER STRUCTURES	Treated Timber	Retention of Preservative AWPA <i>C14</i>	Certification		QPL-50, pre-inspected by Authorized Agency & AWW stamped		Independent Assurance: sample occasionally
	Untreated Timber	Certification	Certification		Certification of Inspection from Vendor & Visual Inspection; Grade Stamp required		
	Lumber & Timber	Certification	Certification		QPL-50, pre-inspected by Authorized Agency & AWW stamped		
	Preservative Treatment	Certification	Certification		QPL-50, pre-inspected by Authorized Agency & AWW stamped		
	Paints	Pigment ASTM D2371	Certification	1 qt.	Approved by Office of Materials		
		Non-Volatile Vehicle			of Materials		
		Grind					
		Viscosity ASTM D562					
		Dry Time ASTM D711					
		Percent Volatile					
	Weight per Gallon ASTM D1475						
		Color					

	Misc. Bridge Hardware (Galvanized Items)	Chemical <b>ASTM F568</b>	Certification		Certified Mill Test Report			Independent Assurance: sample occasionally
	Structural Steel	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 Charpy ASTM E23 Thickness Yield Strength ASTM A370 Tensile Strength ASTM A370 Elongation ASTM A370 Reduction of Area ASTM A370 Chemical ASTM A370 Chemical ASTM A709	Certification		Certified Mill Test Report, pre- inspected by Office of Materials & GDT stamped		Stock, Fabricator or Supplier	
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPOR SM Report	SIZE OF SAMPLE	GUIDE F ACCEPTANCE	REQUENCY QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
	Plain Cotton Duck	Certification	Certification	SAWIF LL	Certified Mill Test Report	WOLLIT ASSUMANCE	OI JAWIFLING	KLWAKKO

	Misc. Steel	Grade <b>As Specified</b>	Certification		Certified Mill Test			
		Yield Strength <b>T244</b>			Report			
		Tensile Strength <b>T244</b>						
		Size Elongation <b>T244</b>						
		Reduction of Area <b>T244</b>						
		Thread Dimensions						
		Diameter						
		Length						
		Chemical						
		Rotation ASTM A325						
		Galvanization ASTM A90 or ASTM E376						
503								
STEEL GRID FLOORING	Steel Grid	Grade As Specified			Certified Mill Test			
FLOORING		Galvanization ASTM A123	Certification		Report, pre- inspected & GDT stamped		Fabricator or Supplier	
	Paint	Specification Requirement Section 870.01						
			Certification		QPL-73 w/Certifications			Independent Assurance: sample occasionally
	Concrete	Cylinders GDT-35 & T22	DOT-319	Concret fabricate	e used in Bridge Curb or d for each cumulative 50 in each structure. Cylind	uss of Concrete placed daily except for r Wall Coping. Two Concre D yds <sup>3</sup> or fraction thereof, of ders shall not be fabricated rete placed in another struc	ete cylinders shall be f Concrete placed per at one structure to	
504								
TWENTY-FOUR HOUR ACCELERATED STRENGTH CONCRETE	Concrete Compressive Strength	Cylinders GDT-35 & T22 Air Content GDT-26 & GDT-35 Slump GDT-27	DOT-319		(2 for 1 da Air, Slump & Mix required when cylinde	each placement date. y, 2 for 3 day) Temperature tests are ers are made & as judged		In accordance with Section 504 of the Specifications
		Mix Temperature <i>GDT</i> -122			necessary to insu	ure adequate controls		

	Portland	Air Content <b>T137</b>		Ī		T		
	Cement	Fineness <i>M85</i>						
		Fineness M240						
		Autoclave <b>M240</b>						
		Compressive Strength	DOT-175					
		<b>M240</b> Vicat <b>T131</b>						
		Chemical <i>M240</i>						
		Autoclave <b>M85</b>						
		Compressive Strength						
		M85						
		Vicat T131						
		Chemical <i>M85</i>						
	Fine Aggregate	Gradation <b>T27</b>					01-1	
	/ iggregate	Wash 200 <i>T11</i> Sand Equivalent <i>GDT-63</i>	DOT-658	20 lbs.	One per month per act	tive plant.	Stock or Conveyor Belt	
		Sand Equivalent GD1-63						
	Coarse	Wash 200 <b>T11</b>						
	Aggregate	Gradation <b>727</b>	DOT-658	35 lbs.	One per month per ac	tive plant.	Stock or Conveyor	
	Calcium	Specification <i>M144</i>	DOT-319				Belt	
	Chloride	Opcomodulon M144	201 010					
	Water	Quality of Water to be	DOT-088	1 qt.*	One per unpotable So	urce per month	Enough in advance	*non-metal container
	vvalei	Used in Concrete <b>726</b>	DO1-088	i qt.	One per unpotable 30	urce, per montr	so that	non-metal container
							results are known	
505						_	before use	
`	Corrugated	ASTM A123 or ASTM	Certification		Certified Mill Test Rep	port		Independent
	Steel Plank for	A525						Assurance:
	Bridges	Yield Strength <b>T244</b>						sample occasionally
		Tensile Strength T244						
		Width						
		Thickness						
		Depth & Spacing of						
		Corrugations						
		Chemical ASTM A570						
L	J	L	I	I	L		J I	I

		Galvanization ASTM A90 or ASTM E376						
	Paints	Pigment ASTM D2371	Certification	1 qt.	Approved by Office of Ma	terials		
		Non-Volatile Vehicle						
		Grind						
		Viscosity ASTM D562						
		Dry Time ASTM D711						
		Percent Volatile						
		Weight per Gallon ASTM D1475						
		Color						
		Certification						
506			L		L		L	
EXPANDED	Portland	Air Content <b>T137</b>	DOT-175	Sampled &	tested in conjunction with o	other Concrete		
MORTAR	Cement	Fineness M85			n on Project. No additional	sample required under		
		Autoclave M85		normal circ	umstances.			
		Compressive Strength M85 Vicat T131						
	Blended	Fineness <i>M85</i>	DOT-175		QPL-3			
	Hydraulic	Autoclave M85						
	Cement	Compressive Strength <b>M85</b>						
		Vicat T131						
	Coarse	Chemical <b>M240</b> Wash 200 <b>T11</b>	DOT-658	35 lbs.	One per month per		Stock or Conveyor	
	Aggregate	Gradation <b>727</b>	DO1-000	JJ IDS.	active plant.		Belt	
	Fine Aggregate	Gradation <b>727</b>	DOT-658	20 lbs.	One per month per active plant.		Stock or Conveyor Belt	
	Aluminum	Sand Equivalent GDT-63			donvo piarit.		Doit	
	Powder	Wash 200 <b>T11</b>						
		Fineness ASTM D480	Certification	50 g	Acceptance based on label stating material is Aluminum		Stock	

					Powder of Unpolished Type or 1 sample per Project		
	Water	Quality of Water to be Used in Concrete <b>726</b>	DOT-088	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	Concrete Bridge Members		OMR-122 (Shipping Report)		QPL-9, OMR-122, GDOT stamp & Plant Stamp		
	Plain Steel	Chemical ASTM A370	DOT-166				
	Bars – Threaded	Tensile Strength <b>T244</b>					
	Ends	Yield Strength T244					
		Elongation <b>T244</b>					
	Anchor Bolts	Reduction of Area <b>7244</b>	Certification	1 each:	Certified Mill Test Report	Stock	
	Alichor Boits	Thread Dimensions	Octunication	Bolt, Nut	Corumou will resurveport	Olook	
		Hardness ASTM A370		& Washer			
		Grade As Specified on					
		Plans					
		Yield Strength T244					
		Tensile Strength T244					
		Elongation T244					
		Reduction of Area T244					
		Thread Dimensions					
		Size					
		Diameter					
		Length					
		Chemical					
	Bushings, Bearings & Expansion Plates	Certification	Certification		Certified Mill Test Report	Stock	
	Structural	Charpy ASTM E23	Certification	<del> </del>	Certified Mill Test Report, pre-inspected by	Fabricator or Supplier	
	Steel Elastomeric	Thickness	Certification	1 pad per	Office of Materials & GDT stamped		
	Bearing Pads	Yield strength <b>ASTM</b> <b>A370</b>		Lot Number,			

		Tensile Strength ASTM A370  Elongation ASTM A370  Reduction of Area ASTM A370  Hardness ASTM A370  Chemical ASTM A709  Hardness ASTM D2240  Tensile Strength ASTM D412  Elongation ASTM D412  Heat Resistance ASTM D573  Compression Set ASTM D395  Brittleness ASTM D746  Dimensions  Laminate Thickness  Yield Strength M183  Elongation M183		per size, per Project	Pre-inspected & GDT stamped	Supplier	
	Plain Cotton Duck	Weight	Certification	1 yd²	One per shipment	Stock	
	Rubber	Weight					
	Impregnated Cotton Duck	Compressive Strength					
	Paints	Pigment ASTM D2371					
		Non-Volatile Vehicle					
		Grind					
		Viscosity ASTM D562					
		Dry Time ASTM D711	Certification	1 qt.	Approved by Office of Materials & Testing		
		Percent Volatile	Octunication	1 41.	Approved by Office of Materials & Testing		
		Weight per Gallon <b>ASTM D1475</b>					
		Color					
		Certification					
508							
ASPHALT PLANK	Pre-molded	Dimensions					
BRIDGE FLOOR	Asphalt Plank	Weight of Surface Absorption		1 yd²	One per Lot		

		Brittleness					
		Hardness M46	1				
						Stock	
	Cutback Asphalt	Viscosity <b>T201</b>	DOT-325	1 qt.	QPL-7	Before application	
	Asphalt Cement	Dynamic Shear <i>TP-5</i>	DOT-504	1 qt.	QPL-7	Before application	
509				_		Before application	
PRESTRESSING CONCRETE BY POST TENSIONING	Ducts Anchorage Assembly	Dimensions		48" piece Complete Assembly	One per size		60 calendar days prior to installation
	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	DOT-166	1 pc @ 24" per size	QPL-12 & QPL-61 w/Certified Mill Test Reports.	Random sampling at Fabricator Supplier, Fabricator or Jobsite storage	60 calendar days prior to installation
	Post- tensioning Steel Wire Strand	ASTM A 416		3 - 53" long pieces	One set per Heat Number and Certified Mill Test Report		60 calendar days prior to installation
	Post- tensioning Steel Wire	ASTM A 421		3 - 53" long pieces	One set per Heat Number and Certified Mill Test Report		60 calendar days prior to installation
	Post- tensioning Steel Bars	ASTM A 722		3 - 53" long pieces	One set per Heat Number and Certified Mill Test Report		60 calendar days prior to installation
	Pre-Package Grout				Certified Mill Test Report		Prior to use
	Portland Cement	Air Content T137 Fineness M85 Autoclave M85 Compressive Strength M85 Vicat T131	DOT-175	10 lbs.	QPL-3	Prior to use	1

I		Chemical <i>M85</i>		İ			
	Blended	Air Content <b>T137</b>		-			
	Hydraulic	Fineness M240					
	Cement	Autoclave M240				One per Quarter, per	
		Compressive Strength M240	DOT-175	20 lbs.	QPL-3	Source, per District Stock	
		Vicat T131					
		Chemical M85					
	Water	Quality of Water to be Used in Concrete <b>726</b>	DOT-088	1 qt.*	One per unpotable Source, per month	Enough in advance so that results are known before use	*non-metal container
511		1				1	
REINFORCEMENT STEEL	Steel Bars for Reinforcement	Number M31M					
JILLE	Remorcement	Weight <b>M31M</b>					
		Dimensions M31M					
		Deformation Spacing M31M		4 = = @		`Random sampling at	
		Height & Gap <i>M31M</i>	DOT-166	1 pc @ 24" per	QPL-12 & QPL-61	Fabricator	
		Tensile Strength T244	201 100	size	w/Certified Mill Test Reports.	Supplier, Fabricator or Jobsite storage	
	_	Yield Strength T244				or sobsite storage	
		Elongation T244					
		Bend Test T285					
		Chemical M31M					
	Wire Bar	Shape					
	Supports Galvanized	Height	Certification				
	Gaivariized	Wire Size					
		Galvanization ASTM A123					
	Stainless	Shape	Certification				
		Height					
		Wire Size					
		Chemical					
		Tensile Strength T244					
	Bright	Shape	Certification	1			
		Height					
		Wire Size					
	Plastic	Shape	Certification	<u> </u>			
	Covered	Height					
		Wire size					
		Tensile Strength T244					

		Hardness ASTM D2240	]			
	Epoxy Coated	Shape	Certification			
		Height				
		Wire Size				
		Thickness				
		Condition				
	Plastic	Shape	Certification	 		 
		Height				
		Wire Size				
		Compressive Strength <b>T22</b>	-			
		Water Absorption <b>ASTM D570</b>				
512						
SHEAR CONNECTORS	Stud	Charpy <b>ASTM E23</b> Yield Strength <b>ASTM</b>	Certification	QPL-6 & Certified Mill T	est Report	
CONNECTOR		A370				
		Tensile Strength ASTM				
		A370 Elongation ASTM A370	-			
		Reduction of Area <b>ASTM</b>				
		A370				
		Hardness ASTM A370				
		Chemical ASTM A709				
		Length	1			
	Channel	Certification		 QPL-6 & Certified Mill		 
				Test Report		
513						
PRECAST REINFORCED	Complete Units	Certification	DOT-164A / DOT-619	QPL-4 with CPT stamp or pre-		
CONCRETE BOX	Office		DO1-013	inspected by Office of		
CULVERT BARREL SECTIONS & END				Materials Personnel & GDT		
SECTIONS				stamped		
	Portland Cement	Air Content <b>T137</b>				
	Cement	Fineness M85				
		Autoclave M85				
		Compressive Strength M85	DOT-175	QPL-3		
		Vicat <b>T131</b>				
		Chemical <i>M85</i>		 		 
	Portland	Air Content <b>T137</b>	DOT-175	QPL-3		

	Pozzolan	Fineness M240	]					
	Cement	Autoclave <b>M240</b>						
		Compressive Strength M240						
		Vicat <b>T131</b>						
		Chemical M240						
	Blended	Air Content <b>T137</b>						
	Hydraulic	Fineness M240						
	Cement	Autoclave M240						
		Compressive Strength M240	DOT-175	20 lbs.	QPL-3	One per Quarter, per	Stock	
		Vicat <b>T131</b>	501 170	20 100.	Q. L.O	Source, per District	Otook	
		Chemical <i>M240</i>						
	Fine	Gradation <b>727</b>	DOT-658	20 lbs.	One per 500 tons	QPL-1 Sources, 1 per		
	Aggregate	Sand Equivalent <i>GDT-63</i>			based upon QPL-1, except for Section D,	month, per active plant, except for		
		Washed No. 200 <i>T11</i>			Stockpile Basis Sources; material from Section D must be sampled.	Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
					GUIDE FR	EQUENCY		
					1	1		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
	Coarse Aggregate	Wash 200 <b>T11</b> Gradation <b>T27</b>	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 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 <i>M31M</i> Weight <i>M31M</i>	DOT-166	1 pc @ 24" per	QPL-12 & QPL-61 w/Certified Mill Test	Random sampling at Fabricator	Supplier, Fabricator or Jobsite storage	
		Dimensions <i>M31M</i>		size	Reports.			
		Deformation Spacing <b>M31M</b>						
		Height & Gap <i>M31M</i>						
		Tensile Strength <b>T244</b>						

1	Yield Strength T244	]					
	Elongation <i>T244</i>	-					
	Bend Test <b>T285</b>	•					
	Chemical <b>M31M</b>	-					
Steel Wire for	Size <b>M32M</b>						
Reinforcement	Diameter M32M	-					
	Area <b>M32M</b>	-	1 22 @			loboito otorogo	
	Tensile Strength T244	Certification	1 pc @ 24" per	Certified Mill Test	Random sampling	Jobsite storage and/or producer	
	Yield Strength <b>T244</b>		size/dia.	Report		stock	
	Area Reduction <b>T244</b>						
	Bend Test M32M						
Welded Steel	Size <b>M55M</b>	Certification	2' X 2'	QPL-55 w/Certified	Random sampling	Jobsite storage	
Wire Fabric for Reinforcement	Diameter <i>M55M</i>			Mill Test Report		and/or producer stock	
	Area <i>M55M</i>					oloon.	
	Tensile Strength T244						
	Yield Strength T244						
	Area Reduction <b>T244</b>						
	Bend Test M55M						
	Weld Shear Strength M55M						
	Width <i>M55M</i>						
	Length M55M						
	Spacing <i>M55M</i>						
Cylinders	Compressive Strength <b>722</b>	DOT-319	3 ea.				
Steel Bolts,	Chemical ASTM F568	Certification		Certified Mill Test			
Nuts & Washers	Yield Strength ASTM F606			Report			
	Tensile Strength <b>ASTM</b> <b>F606</b>						
	Elongation ASTM F606						
	Reduction of Area <b>ASTM F606</b>						
	Hardness ASTM F606						
	Length	]					
	Diameter						
	Thread Class						
	Galvanization ASTM A90 or ASTM E376						

1	Anchor Bolts	Grade As Specified	T	Τ	T	T		
	7 thorior Botto	Yield Strength <b>T244</b>						
		Tensile Strength <b>T244</b>						
		Elongation <b>T244</b>						
		Reduction of Area <b>T244</b>						
		Thread Dimensions	Certification		Certified Mill Test Report			
		Size						
		Diameter						
		Length						
		Chemical						
	Corrugated	Diameter						
	Steel Pipe	Depth & Spacing of Corrugations <b>M36</b>	Certification		Certified Mill Test Report			
		Thickness						
	Corrugated	Diameter	Certification		Certified Mill Test			
	Plastic Pipe	Depth & Spacing of Corrugations <i>M252</i>			Report			
		Thickness						
		Stiffness ASTM D2412						
		Flattening M252						
		Elongation M252						
		Brittleness M252						
		Flexibility M252						
		Couplings M252						
		Strength M252						
					GUIDE FR	EQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
	Backfill:	Gradation GDT-4	DOT-97 DOT-	30 lbs.	One per soil type			
	Type I – Class	Percent Clay GDT-4	408					
	I & II Soil	Volume Change GDT-6						
		Density GDT-7 or GDT-67						
		Classification Section 810						
	Type II – Backfill Aggregate	Gradation <b>727</b>	DOT-658	45 lbs.	One per 20, 000 tons.	As required by Project Engineer		
	Type III –	Density GDT-7	DOT-408 / DOT-		Notify Central Lab			
1	L			1	<u> </u>		·	ļ.

	Soil/Organic	Condition of Mixture	97						
EPOXY COATED STEEL	Steel Bars for Reinforcement	Number M31M	DOT-166A	1 pc @ 24" per	QPL-43 w/Certified Mill Test Reports.	Random sampling at Fabricator	Supplier, Fabricator or Jobsite storage		
REINFORCEMENT	Reinforcement	Weight <b>M31M</b>		size	Willi Test Neports.	1 ablicator	or Jobsile Storage		
		Dimensions M31M							
		Deformation Spacing <b>M31M</b>							
		Height & Gap M31M							
		Tensile Strength T244							
		Yield Strength T244							
		Elongation T244							
		Bend Test T285							
		Chemical <b>M31M</b>							
	Epoxy Coating	Thickness ASTM G12							
		Adhesion <i>M284</i>			QPL-38				
HANDRAIL -	Anchor Bolts	Specification	Certification		Accepted by Project Po	rsonnel based on Visual			
FERROUS METAL & PIPE	Anchor Boils	Requirements	Certification		Inspection & Certif	fied Mill Test Report			
	Handrail & Misc. Steel Items	Galvanization ASTM A123	Certification & DOT-619 or Project Inspection Report		Field Welded: Finished handrail required to be inspected by Office of Materials personnel by contacting the Inspection Services Branch. Shop Welded: QPL-59 and pre-inspected by Office of Materials & GDT Stamped				
	Structural	Charpy ASTM E23		1					
	Steel	Thickness							
		Yield Strength ASTM A370	Certification		Certified Mill Test Report				
		Tensile Strength <b>ASTM A370</b>							
		Elongation ASTM A370							
		Reduction of Area <b>ASTM</b> <b>A370</b>							
		Hardness ASTM A370							
	NA-UI-II	Chemical ASTM A709		4`					
	Malleable Iron Castings	Chemical <b>ASTM A27</b>		1`					
	3-	Tensile Strength <b>T244</b>			Certified Mill Test				
		Yield Strength <b>T244</b>	Certification		Report				
		Elongation T244							
	ļ <u>.</u>	Reduction of Area <b>T244</b>		<u> </u>					
	Steel Castings	Chemical M103	Certification	]	Certified Mill Test	J			

	Tensile Strength <b>T244</b>	]		Report		
	Yield Strength T244					
	Elongation <i>T244</i>					
	Reduction of Area <b>T244</b>					
	Dimensions					
	Certification					
Steel Pipe	Chemical <b>ASTM A53</b> Yield Strength <b>T244</b>	Certification		Certified Mill Test Report		
	Tensile Strength <b>T244</b>					
	Elongation <b>T244</b>					
	Bending ASTM A53					
	Flattening ASTM A53					
	Non-Destructive Electric Test <b>ASTM A53</b>					
	Weight					
	Diameter					
	Thickness					
	Finish					
	Appearance					 
Steel Bolts, Nuts &	Chemical ASTM F568	Certification		Certified Mill Test Report		
Washers	Yield Strength <b>ASTM</b> <b>F606</b>			, topon		
	Tensile Strength <b>ASTM F606</b>					
	Elongation ASTM F606					
	Reduction of Area <b>ASTM F606</b>					
	Hardness ASTM F606					
	Length					
	Diameter					
	Thread Class					
	Galvanization ASTM A90 or ASTM E376					
Paints	Pigment ASTM D2371	Certification	1 qt.	Approved by Office of N	Materials & Testing	 
	Non-Volatile Vehicle					
	Grind					
	Viscosity ASTM D562					

		Dry Time ASTM D711						
		Percent Volatile						
		Weight per Gallon <b>ASTM D1475</b>						
		Color						
		Certification						
	Plain Steel	Chemical ASTM A370	Certification		Certified Mill Test			
	Bars	Tensile Strength T244			Report			
		Yield Strength T244						
		Elongation T244						
		Reduction of Area T244						
		Thread Dimensions						
		Hardness ASTM A370						
ALUMINUM	Aluminum	Chemical						
HANDRAIL	Alloy Materials	Thickness						
		Dimensions						
		Tensile Strength T244			Cortified Mill Teet			
		Yield Strength T244						
	Elongation T244	Certification		Certified Mill Test Report				
		Bend Diameter Factor ASTM B209						
		Hardness ASTM B241						
		Shear Strength ASTM B565						
	Caulking Compound	Certification	Certification		Manufacturer's Certification			
	Plain Steel	Chemical ASTM A370						
	Bars	Tensile Strength T244						
		Yield Strength <b>T244</b>			Certified Mill Test			
		Elongation T244	Certification		Report			
		Reduction of Area T244						
		Thread Dimensions						
					GUIDE FR	REQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
		Hardness ASTM A370						
	Steel Nuts, Bolts &	Chemical <b>ASTM F568</b> Yield Strength <b>ASTM</b>	Certification		Certified Mill Test Report			

1	Washers	F606						
		Tensile Strength <b>ASTM</b> <b>F606</b>						
		Elongation ASTM F606						
		Reduction of Area <b>ASTM</b> <b>F606</b>						
		Hardness ASTM F606						
	Elastomeric	Hardness ASTM D2240						
	Bearing Pads	Tensile Strength ASTM D412						
		Elongation ASTM D412						
		Heat Resistance ASTM D573						
		Compression Set <b>ASTM D395</b>	Certification		Certified Mill Test Report			
		Brittleness ASTM D746			Koport			
		Dimensions						
		Laminate Thickness						
		Tensile Strength M183						
		Yield Strength M183						
		Elongation M183						
	Galvanizing	ASTM A90 or ASTM E376	Certification		Certified Mill Test Report			
BRIDGE DECK OVERLAY	Concrete	Cylinders GDT-35 & T22	DOT-319	2 cylinders	See NOTE 1			
						_		
		Air Content GDT-26 or GDT-32						
		Slump GDT-27		See NOTE 2	When cylinders are made		Placement site	
		Mix Temperature <i>GDT</i> -122						
	Portland Cement	Air Content <b>T137</b>	DOT-175	10 lbs.	QPL-3	One per Quarter, per		
	Cement	Fineness M85				Source, per District		
		Autoclave M85						
			•					•

		Compressive Strength  #85 Vicat T131 Chemical #85						
	Blended	Air Content T137						
	Hydraulic	Fineness M240						
	Cement	Autoclave M240	1					
		Compressive Strength M240	DOT-175		QPL-3	Source, per District		
		Vicat T131						
	<u></u>	Chemical M240						
	Fine Aggregate	Gradation 727	DOT-658	20 lbs.	One per month per active plant.			
	Aggregate	Sand Equivalent <i>GDT-63</i> Wash 200 <i>T11</i>		•	active plant.			
	Coarse Aggregate	Wash 200 <b>T11</b>						
			DOT-658	40 lbs	One per month per			
		Gradation <b>727</b>			active plant.			
	Fly Ash	Fineness <i>M295</i>						
		Activity M295						
		Soundness M295	DOT-175	10 lbs.	QPL-30	One per Quarter, per Source, per District		
		Density M295				Gource, per District		
		Chemical M295	1					
	Slag Cement	Fineness M302						
		Activity M302						
		Air Content M302	DOT-175	10 lbs.	QPL-30	One per 2,000 tons, per Source	Jobsite storage	
		Density M302				per Source		
		Chemical M302						
	Air Entrainment Admixtures	Air-Entraining Admixture for Concrete <i>M154</i>	DOT-168 Certification	1 qt.	QPL-13	One per 6 months, per Source, per District		
					GUIDE FREQUENCY			
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS

	Chemical Admixtures	Chemical Admixtures for Concrete <i>M194</i>	DOT-168 Certification	1 qt.	QPL-14	One per 6 months, per Source, per District	
	Curing Agent	Specification for Liquid Membrane Curing <i>M148</i>	DOT-168 Certification	1 qt.	QPL-16		 
	Water	Quality of Water for Concrete <b>726</b>	DOT-168 Ga168 GACERT	1 qt.*		One per unpotable Source, per month	*non-metal container
520							
PILING	Prestressed Concrete		OMR-122 (Shipping Report)		QPL-9, OMR-122 & Plant Stamp		
	Treated Timber Piles	Retention of Preservative AWPA <b>C14</b>	Certification		QPL-50, preinspected by Authorized Agency & AWW Stamp		
	Preservative Treatment	Certification	Certification		QPL-50 & Preinspected by Authorized Agency		 
	Aluminum Powder	Fineness ASTM D480	Certification				 
	Self-lubricating Bronze Bearing & Expansion Plates & Bushings	Certification	Certification		Certified Mill Test Report		
	Paint	Pigment ASTM D2371	Certification	1 qt.	Approved by Office of N	Materials	
		Non-Volatile Vehicle	1		-		
		Grind	1				
		Viscosity ASTM D562	-				
		Dry Time ASTM D711	1				
		Percent Volatile	1				
•		L	_	•	•		1

		Weight per Gallon <b>ASTM D1475</b> Color						
					GUIDE FR	REQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
		Certification						
	Welded &	Thickness	Certification					
	Seamless Steel Pile	Chemical ASTM A252						
		Tensile Strength T244						
		Yield Strength T244			QPL-44 w/Certified			
		Elongation T244			Mill Test Report			
		Diameter						
		Weight						
		Certification						
	Fluted Steel Shell Pile	Thickness	Certification					
	Shell File	Diameter			QPL-44 & Certified			
		Yield Strength T244			Mill Test Report			
		Certification						
	Steel H-Pile	Charpy ASTM E23	Certification					
		Thickness						
		Yield Strength ASTM A370						
		Tensile Strength <b>ASTM</b> <b>A370</b>			QPL-44 & Certified			
		Elongation ASTM A370			Mill Test Report			
		Reduction of Area <b>ASTM</b> <b>A370</b>						
		Hardness ASTM A370						
		Chemical ASTM A709						
		Certification						
	Steel Bolts,	Chemical ASTM F568	Certification					
	Nuts & Washers	Yield Strength <b>ASTM</b> <b>F606</b>			Certified Mill Test			
		Tensile Strength <b>ASTM</b> <b>F606</b>			Report			
		Elongation ASTM F606						

	`Aluminum Alloy Sheet & Plate	Reduction of Area ASTM F606  Hardness ASTM F606  Length Diameter Thread Class Galvanization ASTM A90 or ASTM E376  Chemical Thickness Dimensions Tensile Strength T244  Yield Strength T244  Elongation T244  Bend Diameter Factor ASTM B209  Hardness ASTM B241  Shear Strength ASTM B565	Certification	Certified Mill Test Report	`	
529 NAVIGATION LIGHTING	Electrical Materials	As Specified	Certification	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	- Certification	Certified Mill Test Report		

į l	Paint	Pigment ASTM D2371	T	T	T			
		Non-Volatile Vehicle						
		Grind						
		Viscosity <b>ASTM D562</b>						
		-						
		Dry Time ASTM D711	Certification	1 qt.	Approved by Office of M	Materials		
		Percent Volatile			,			
		Weight per Gallon <b>ASTM D1475</b>						
		Color						
		Certification						
	Lighting Standards	Certification	Certification		QPL-52, pre-inspected l Personnel & GDT stamp	by Office of Materials ped		
	Luminaries & Ballasts	Certification	Certification		Approved Catalog Cuts			
					GUIDE FR	REQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
	Circuit Breakers	Certification	Certification		Approved Catalog Cuts			
	Cable	Certification	Certification		Approved Catalog Cuts			
530				1				
WATERPROOFING	Waterproofing	Thickness						
FABRICS	Membrane Material for Retaining	Tensile Strength ASTM D412						
	Walls	Elongation ASTM D412						
		Permeance ASTM E96						
		Puncture Resistance ASTM E154	Certification		QPL-22			
		1		ĺ				
		Pliability <b>ASTM D146</b>						
		Pliability <b>ASTM D146</b> Cycling Over Crack <b>Section 888.03</b>						
		Cycling Over Crack						

DAMPPROOFING	Bituminous Material for Waterproofing or Damp proofing	Specification Requirements <i>M115, M118 or M121</i>	Certification	1 qt.	One per Type, per Source		Before application	
533								
BRIDGE DECK WATERPROOFING MEMBRANE	Hot Mix Asphaltic Asphalt Cement	Concrete  Dynamic Shear <i>TP-</i> 315	DOT-504	Two 1 qt.	QPL-7	As per GSP-21	Storage Tank	
	Coarse	Wash 200 <b>T11</b>						
	Aggregate for Asphaltic Concrete	Gradation <b>727</b>	DOT-658	45 lbs.	QPL-2	As necessary	Stockpile	
	Fine Aggregate	Gradation T11 & T27						
	for Asphaltic Concrete	Clay Lumps T1121	DOT OF	00.11	0.01		0: 1 "	
	001101010	Sand Equivalent GDT-63	DOT-658	20 lbs.	QPL-1	As necessary	Stockpile	
		Mica Content ASTM C 295						
	Mineral Filler	Gradation T11 & T27	DOT-168 Certification	10 lbs.	QPL-81	One per 500 tons, per Type, per Source	Stockpile	
	In-Place Material	Thickness Measurement GDT42	DOT-176		One per 1,000 ft, per 2 lanes		Completed Course	
	Hydrated Lime	Physical & Chemical Analysis <i>M216-84</i>	Certification	1 qt.*	QPL-41	One per Quarter	Silo or Tanker	*Air-tight container
					GUIDE FR	EQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	`REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
J		Gradation T219						As required by SOP- 17
		Chemical <b>T219</b>						17
	Complete Mixture	Asphalt Binder Content: GDT-125, GDT-83, or T- 308 Gradation: T-27 or GDT- 38	DOT-159	Varies per Mix Type	Asphalt Producer will test 1 per 500 tons	GDOT will test Two QA samples per 5 days production or 5 lots; 1 comparison sample per 10 days	Truck or Roadway	AASHTO T308 (Method A)
1		Stripping Test <i>GDT-56</i>	DOT-159	300 g	One per Extraction		Same as Extraction	For OGFC and PEM mixes only.
		Detection of Amine based Liquid Anti-Stripping Additive (LASA) <b>GDT-139</b>						As required by GSP- 21
		Compaction GDT-39, or GDT-59	DOT-150	Core	Five per Lot*		After Compaction	Quantities less than 500 tons will be tested at 1 per 100 tons.

	Bituminous	Dynamic Shear <b>T-315</b>		Two 1-	Once per week per		Distributor	As required
	Tack Coat			quart cans				
	Asphalt Cement	GDT-57						
	Cement			6-inch core				
	Emulsified	Viscosity <b>T59</b>		Two 1 gal	Once per week per		Distributor	Nonmetal container
	Asphalt	Sieve <b>T59</b> Residue T59 (at		containers	distributor			
		Bituminous Branch's		6-inch				
		discretion) GDT <b>57</b>		core				As required
	Sand For Blast	Gradation GDT-3	Certification		Visual Inspection	<u> </u>	Stock	Independent
	Cleaning	TCLP EPA SWD <b>846-1311</b>			·			Assurance: sample occasionally
		Certification						sample occasionally
	Waterproofing	Bond GDT-69	Certification		QPL-22			
	Membrane Material for	Permeability GDT-69						
	Bridge Decks	Heat Resistance GDT-69						
		Penetration GDT-69						
		Freeze-Thaw GDT-69						
		Chemical Resistance <i>GDT</i> -69						
		Shear Resistance GDT-69						
		Effectiveness GDT-69						
		Certification						
					GUIDE FR	EQUENCY		
TYPE		TEST PROCEDURES	REPORT	SIZE OF		QUALITY	LOCATION OR TIME	
CONSTRUCTION	MATERIAL	Name & Number	SM Report	SAMPLE	ACCEPTANCE	ASSURANCE	OF SAMPLING	REMARKS
535		10 15 6			00:		,	
PAINTING STRUCTURES	Paint	Specification Requirements <b>Section 870.01</b>	Certification		QPL-73 w/Certifications			Independent Assurance: sample occasionally
	Paint –	Anchor Pattern	DOT-168A		QPL-73			
	Completed Coat	Steel Temperature	Certification		w/Certifications			
		Ambient Temperature						
		Humidity						
		Dew Point						
		Adhesion MEK Rub <i>GDT-110</i>						
1	l	IVIEN KUD GDI-110		l	l	l	1	l

		Final Paint Thickness						
	Lead Paint	TCLP EPA SWD <b>846-1311</b>	TCLP Report					
	Residue	TOLF LFA SWD <b>640-1311</b>	TOLF Report					
		Disposal Manifest						
543								
CONSTRUCTION OF BRIDGE COMPLETE	Earthwork Embankments (to within 1 ft of top)	Theoretical Density <i>GDT-7</i> or <i>GDT-67</i> Gradation <i>GDT-4</i> Volume Change <i>GDT-6</i> Classification <i>Section 810</i> In-Place Density <i>GDT-20</i> , <i>GDT21</i> , & <i>GDT-59</i>	DOT-553	30 lbs.	One per major soil Type One per 5,000 yd <sup>3</sup>		Roadway (before Compacting) Completed Lift	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.
	Rock	Gradation Visual	DOT-658		QPL-2			Requires approval by
		Abrasion T96						Pit & Quarry if not from
		Soundness T104						QPL-2
		Petrographic Analysis ASTM C295						Source
					GUIDE FR	REQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
	Pond Sand	Gradation Visual	DOT-408 / DOT- 97					Requires approval by
		Volume Change GDT-6	97					Pit & Quarry
		Density GDT-7 or GDT-67						
	Piling Treated Timber Piles	Retention of Preservative AWPA <b>C14</b>	Certification		QPL-50, pre-inspected by Authorized Agency & AWW stamp			
	Fluted Steel Shell Pile  Thickness  Diameter  Yield Streng	Thickness						
		Diameter	Cortification		QPL-44 & Certified			
		Yield Strength T244	Certification		Mill Test Report			
		Certification						
	Steel H-Pile	Charpy ASTM E23	Certification		QPL-44 & Certified			

		Thickness			Mill Test Report			
		Yield Strength						
	Lumber & Timber	Certification	Certification		QPL-50, pre-inspected by Authorized Agency & AWW stamp			
	Expanded Mortar Portland Cement & Blended Hydraulic Cement	Sampled & tested in conjunc circumstances.	tion with other Conc	rete construc	tion on Project. No addit	onal sample required und	ler normal	
	Coarse	Wash 200 <b>T11</b>	DOT-658	35 lbs.	One per month per		Stock or Conveyor	
	Aggregate	Gradation T27			active plant.		Belt	
	Fine Aggregate	Gradation <i>T27</i> Sand Equivalent <i>GDT-63</i>	DOT-658	20 lbs.	One per month per active plant.		Stock or Conveyor Belt	
					GUIDE FR	EQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
		Wash 200 <b>T11</b>						
	Aluminum Powder	Fineness ASTM D480	Certification	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 <b>726</b>	DOT-088	1 qt.*	One per unpotable Source, per month		Enough in advance so that results are known before use	*non-metal container
	Steel Bars for	Number <i>M31M</i>						
	Reinforcement	Weight <b>M31M</b>						
		Dimensions M31M						
		Deformation Spacing M31M						One sample per size,
		Height & Gap M31M	DOT-166	1 pc @ 24" per	QPL-12 & QPL-61 w/Certified Mill Test	Random sampling at	Supplier, Fabricator	per Project by
		Tensile Strength T244		size	Reports.	Fabricator	or Jobsite storage	Independent
		Yield Strength T244						Assurance Personnel
		Elongation T244						
		Bend Test T285						
		Chemical M31M						

	Misc. Bridge Hardware		Certification	One of ea. item	Certified Mill Test Report		Stock	
	Joint Material Silicone	Durometer ASTM D2240						
	Sealant	Bond GDT-106	Certification		QPL-66		Stock	
		Tack Free Time GDT-106	1					
		Extrusion GDT-106	1					
		Non-Volatile GDT-106						
		Specific Gravity <b>ASTM D792</b>						
		Adhesion <i>GDT-106</i>						
		Resistance ASTM C793						
					GUIDE FR	REQUENCY		
		   TEST						
TYPE CONSTRUCTION	MATERIAL	PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
	Adhesive E	Pot Life GDT-58	Certification		QPL-15 <u>or</u> 1 sample per batch, per Type		Stock	
		Bond Strength GDT-58			per batch, per Type			
		Shelf Life						
		Elongation GDT-58						
		Hardness ASTM D2240						
		Sag <b>7237</b>						
		Wet Bond T137						
	Bond Breakers	Density ASTM D1622						
	-Rods	Tensile Strength ASTM D1623	Certification	5 ft	One per Project & Certified Mill Test		Stock	
		Water Absorption <b>ASTM C1016</b>			Report			
	Bond Breakers - Tape	Thickness	Certification	5 ft	One per Project & Certified Mill Test Report		Stock	
	Creosote & Pitch				Accepted by Project Personnel based on Visual Inspection			
	Roofing Felt				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		Certification		Certified Mill Test Report & Visual Inspection			
	Paint	Specification Requirements <b>Section 870.01</b>	Certification		QPL-73 w/Certifications			Independent Assurance: sample occasionally
544	Completed Units				QPL-9			
DECK DRAIN SYSTEMS	Clips, Brackets, Bars, etc.	Certification	Certification	1 ea.	Certified Mill Test Report		Stock	Independent Assurance: sample occasionally
					GUIDE FR	REQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
	Galvanized Repair Compound	Certification	Certification	1 qt.	Approved by Office of Materials			
	Hardware	Certification	Certification		Certified Mil	Il Test Report		
550								
STORM DRAIN PIPE, PIPE-ARCH CULVERTS & SIDE	Reinforced Concrete Pipe	Diameter M170			QPL-4 with CPT			
DRAINPIPE	Physical Properties of	Thickness M170	DOT-164		Stamp <u>or</u> pre- inspected by Office			
	Pipe	Reinforcement Design <i>M170</i>			of Materials with GDT Stamp			
		External Load Strength <b>T280</b>	OMR-INSP86					
	Portland	Air Content <b>T137</b>	DOT-175		QPL-3			
	Cement	Fineness M85						
		Autoclave M85						
		Compressive Strength M85						
		Vicat <b>T131</b>						
		Chemical <i>M85</i>						
	Blended Hydraulic Cement	Air Content T137 Fineness M240 Autoclave M240 Compressive Strength M240 Vicat T131 Chemical M240	DOT-175		QPL-3			`

Fly Ash	Fineness <i>M295</i>	DOT-175		QPL-30			
	Activity M295	-					
	Soundness M295	-					
	Density M295	-					
	Chemical M295	-					
Fine Aggregate	Gradation <b>727</b>	DOT-658	20 lbs.	One per 500 tons	QPL-1 Sources, 1 per		
	Wash 200 <b>T11</b>	-			month, per active plant, except for		
	Sand Equivalent <i>GDT-63</i>			Stockpile Basis Sources; material from Section D must be sampled.	Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
Coarse Aggregate	Wash 200 <b>T11</b> Gradation <b>T27</b>	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 month, per active plant, except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
Steel Wire for	Size <i>M32M</i>	Certification	1 pc @	Certified Mill Test	Random sampling	Jobsite storage and/or	
Reinforcement	Diameter <b>M32M</b>	-	24" per	Report	1 0	producer stock	
	Area <b>M32M</b>	-	size/dia.				
	Tensile Strength <b>T244</b>	-					
	Yield Strength <b>T244</b>	-					
	Area Reduction <b>T244</b>	-					
	Bend Test M32M	-					
Welded Steel	Size <b>M55M</b>	Certification	2' X 2'	QPL-55 w/Certified Mill	Random sampling	Jobsite storage and/or	
Wire Fabric for Reinforcement	Diameter <i>M55M</i>			Test Report		producer stock	
	Area <b>M55M</b>	1					
	Tensile Strength T244	1					
	Yield Strength T244	1					
	Area Reduction <b>T244</b>	1					
	Bend Test M55M	]					

		Weld Shear Strength M55M						
		Width <i>M55M</i>						
		Length M55M						
		Spacing <i>M55M</i>						
	Cylinders	Compressive Strength <b>722</b>	Certification DOT -T152	3 ea.				
	Non-	Concrete Pipe	DOT-164		QPL-4 with CPT			
	Reinforced	Diameter M86	OMR-INSP-		Stamp or pre-inspected			
	Physical Properties of	Thickness <i>M86</i>	86		by Office of Materials with			
	Pipe	Absorption <i>M86</i>			GDT Stamp			
		Permeability <i>M86</i>						
		External Load Strength 7280						
	Portland	Air Content <b>T137</b>	DOT-175		QPL-3			
	Cement	Fineness <i>M85</i>						
		Autoclave <b>M85</b>						
		Compressive Strength M85						
					GUIDE FR	EQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
		Vicat <b>T131</b>						
		Chemical <i>M85</i>						
	Blended	Air Content <b>T137</b>	DOT-175		QPL-3			
	Hydraulic Cement	Fineness M240						
	Cement	Autoclave M240						
		Compressive Strength <b>M240</b>						
		Vicat <b>T131</b>						
		Chemical M240						
	Fly Ash	Fineness M295	top		QPL-30			
		Activity M295						
		Soundness M295						
		Density M295						
		Chemical M295						
	Fine	Gradation 727	DOT-658	20 lbs.	One per 500 tons	QPL-1 Sources, 1 per		
1	Aggregate	Wash –200 <b>T11</b>			based upon QPL-1,	month, per active		

		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	Wash 200 <b>T11</b>	DOT-658	45 lbs.	One per 1,500 tons	QPL-2 Sources, 1 per		
	Aggregate	Gradation <b>727</b>			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 Plain	Diameter <b>M36M</b>	DOT-291		QPL-56 w/CMPT inspec	ction tags		
	Zinc Coated Pipe	Depth & Spacing of Corrugations <i>M36M</i>						
		Thickness M36M						
		Galvanization M218M						
	Corrugated Steel Aluminized Coated Type 2 Pipe	M274 & M36	DOT-291		QPL-56 w/CMPT inspec	ction tags		
	Corrugated	Diameter <b>M196M</b>	DOT-291		QPL-56 w/CMPT inspec	ction tags		
	-				-	EQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
	Aluminum Alloy Pipe	Depth & Spacing of Corrugations <i>M196M</i>	DOT-291		QPL-56 w/CMPT inspec	ction tags		
	, ,	Thickness <i>M196M</i>						
		Arch Dimensions <i>M196M</i>						
		Chemical <i>M197M</i>						
		Tensile Strength <b>T244</b>						
		Yield Strength <b>T244</b>						
		Elongation T244						

	Smooth Lined Corrugated Polyethylene (HDPE) Culvert Pipe	M294M	OMR-INSP- 89		QPL-51 w/PPT stamp o	r sticker.		
	Polyvinyl Chloride (PVC) Profile Wall DrainPipe	M304	OMR-INSP- 89		QPL-51 w/PPT stamp o	or sticker.		
	PVC Corrugated Smooth Interior Pipe	ASTM F949	OMR-INSP-89		QPL-51 w/ PPT stamp or sticker.			
	Ductile Iron Pipe	Certification	Certification		Certified Mill Test Repo	rt		
	Mortar Cement	Specification Requirements M150	DOT-175	1 gal.	Enough to insure consistency & quality		Stock	
-	Mortar Sand	Gradation <b>T27</b>	DOT-658	20 lbs.	QPL-1, Sections A, B & C			
	Backfill Type I – Soil, Class I & II							
	Oldoo I d II	Percent Clay GDT-4	DOT-408	30 lbs.		One per major soil Type	Before Compacting	
		Volume Change <i>GDT-6</i>				Турс		
		Density GDT-7 or GDT-67						
		Classification <b>Section 810</b>						
					GUIDE FR	EQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
	Type II – Backfill Aggregate	Gradation <b>727</b>	DOT-658	45 lbs.	One per 20, 000 tons.	As required by Project Engineer		
	Type III – Soil/Organic	Density <i>GDT-7</i>	DOT-408		Notify Central Lab			
		Condition of Mixture	201 400					
	Bituminous Plastic Cement	Specification Requirements		1 qt.	QPL-21 <u>or</u> sample representing each Lot of shipment		Stock	
	Pre-Coated	Diameter <i>M245M</i>		<u> </u>				
	Galvanized Steel Culverts	Depth & Spacing of Corrugations <b>M245M</b>	Certification		Certified Mill Test Report			
		Thickness M245M						

1		Galvanize <b>M218M</b>		1				
		Coating Thickness M245M						
		Arch Dimensions M245M						
	Galvanized Repair Compound	Certification	Certification	1 qt.	Approved by Office	of Materials		
	Gaskets	Certification	Certification		QPL-21 & Certified Mill Test Report			
	Post Installatio	n Inspection			<u> </u>			
	All Pipe	GDT 136	Certified Test Report		Certified Test Report meeting requirements of Section 550 and GDT 136			
555								
TUNNEL LINER	Liner Plates	Size As Specified	Certification		Certified Mill Test R	eport		
		Thickness As Specified						
		Sectional Modulus as Specified						
		Tensile Strength T244						
		Yield Strength T244						
		Elongation T244						
		Bend Test ASTM A569						
		Galvanization M167M						
					GUIDE	FREQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
	Grout Ingredients	As Specified			Enough to insu	re consistency & quality		
	Bricks	Size	Certification	10 Bricks	One set per 50,000	bricks, per Source		
		Absorption T32						
		Compressive Strength <b>T32</b>						
560								
STRUCTURAL PLATE PIPE, PIPEARCH &	Backfill Type I – Class I & II Soils	Gradation <i>GDT-4</i>	DOT-408			One per major soil Type		
ARCH CULVERTS		Percent Clay GDT-4						
COLVENIO		Volume Change GDT-6						
		Density GDT-7 or GDT-67						
		Classification Section 810						
	Type II – Backfill	Gradation <b>727</b>	DOT-658		One per 20, 000 tons.	As required by Project Engineer		

	Aggregate							
	Type III –	Density GDT-7	DOT-408		Notify Central Lab			
	Soil/Organic	Condition of Mixture						
	Steel	Diameter <i>M167M</i>	Certification		QPL-56	L		
	Structural Plate for Pipe, Pipe-Arches, &	Depth & Spacing of Corrugations <i>M167M</i>						
	Arches	Thickness M167M						
		Chemical M167M						
		Yield strength <b>T244</b>						
		Tensile Strength T244						
		Elongation T244						
		Galvanization M167M						
	Galvanized Repair Compound	Certification	Certification	1 qt.	Approved by Office	of Materials		
	Corrugated	Diameter <i>M219M</i>	Certification		QPL-56			
	Aluminum Alloy Structural Plate for Pipe,	Depth & Spacing of Corrugations <b>M219M</b>						
	Pipe Arches & Arches	Thickness <i>M219M</i>						
	Aiches	Arch Dimensions M219M						
		Chemical ASTM B209						
					GUIDE FREQUENCY			
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
		Tensile Strength T244						
		Yield Strength T244						
		Elongation T244						
561								
RENOVATING PIPE (Helically	Corrugated Steel Pipe	Diameter M36M						
Corrugated)	Steel Pipe	Depth & Spacing of Corrugations <i>M36M</i>	DOT-291		QPL-56 w/ CMPT in	nspection tag		
		Thickness <i>M36M</i>						
		Galvanization <i>M218M</i>						
	Portland	Air Content <b>T137</b>						
	Cement	Fineness <i>M85</i>						
		Autoclave M85	DOT-175					
		Compressive Strength <b>M85</b>						
		Vicat <b>T131</b>						

		Chemical <i>M85</i>						
	Blended Hydraulic Cement	Air Content T137 Fineness M240 Autoclave <b>M240</b>						
		Compressive Strength M240	DOT-175			QPL-3		
		Vicat T131						
		Chemical M240						
	Mineral Filler		Certification		QPL-81			
	Fine	Gradation <b>727</b>			One per 500 tons	QPL-1 Sources, 1 per		
	Aggregate	Sand Equivalent <i>GDT-63</i>	DOT-658		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.		
	Fly Ash	Fineness <i>M295</i>						
		Activity <b>M295</b>						
		Soundness M295	DOT-175		QPL-30	One per Quarter, per Source, per District		
		Density M295				Source, per District		
		Chemical M295						
	Water	Quality of Water to be Used in Concrete <b>726</b>	DOT-088	1 qt.	One per unpotable Source, per month		Enough in advance so that results are known before use	
	Grout Mixture	Slump <b>GDT-84</b>			One per day <u>or</u> enough to control work			
	Smooth Lined	Diameter <b>M294M</b>						
	Corrugated Polyethylene	Depth & Spacing of Perforations <b>M294M</b>	OMR-INSP- 89		QPL-51 w/PPT stam	np or sticker.		
					GUIDE	FREQUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
	Culvert Pipe	Thickness M294M						
		Stiffness M294M						
		Flattening M294M						
		Cracking M294M						
		Brittleness M294M						
		Fittings M294M						
570								

MINOR DRAINAGE STRUCTURES FOR DETOURS	Corrugated Metal Pipe	Diameter <i>M36M</i> Depth & Spacing of Corrugations <i>M36M</i> Thickness <i>M36M</i> Galvanization <i>M318M</i>	DOT-291		QPL-56 w/CMPT inspection tag			
	Type II –	Gradation <b>727</b>	DOT-658	45 lbs.	One per 20, 000	As required by Project		
	Backfill				tons.	Engineer		
573	Aggregated							
UNDERDRAINS	Aggregate for Underdrain	Gradation <b>727</b>	DOT-658	45 lbs.	One per 20, 000 tons.		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 Cor Physical	ncrete Pipe Diameter <i>M170</i>						
	Properties of Pipe	Thickness <i>M170</i> Reinforcement Design <i>M170</i>	DOT-164		QPL-4 with CPT Sta Office of Materials v	amp or pre-inspected by vith GDT Stamp		
		External Load Strength <b>7280</b>	OMR-INSP86					
	Portland	Air Content <b>T137</b>	DOT-175		QPL-3			
	Cement	Fineness <i>M85</i>						
		Autoclave <i>M85</i>						
		Compressive Strength M85 Vicat T131						
		Vical 1131			CHIDE	FREQUENCY		
					GOIDE	I REQUENCT		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <b>Number</b>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
		Chemical M85						
	Blended	Air Content <b>T137</b>	DOT-175	20 lbs.	QPL-3			
	Hydraulic Cement	Fineness M240						
	Cement	Autoclave <b>M240</b>						
		Compressive Strength M240						
		Vicat <b>T131</b>						

	1	Chemical <i>M240</i>						
	Fly Ash	Fineness <i>M295</i>	DOT-175		QPL-30			
		Activity M295						
		Soundness M295						
		Density M295						
		Chemical M295						
	Fine Aggregate	Gradation <b>727</b>	DOT-658	20 lbs.	One per 500 tons based upon QPL-	QPL-1 Sources, 1 per month, per active plant,		
		Wash 200 <b>T11</b>			1, except for Section D,	except for Section D, Stockpile		
		Sand Equivalent <i>GDT-63</i>			Stockpile Basis Sources; material from Section D must be sampled.	Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
	Coarse Aggregate	Wash 200 <b>T11</b>	DOT-658	45 lbs.	One per 1,500 tons based upon	QPL-2 Sources, 1 per month, per active plant,		`
	Aggregate	Gradation <b>727</b>			QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.		
	Steel Wire for Reinforcement Size M32M  Diameter M32M	Size <b>M32M</b>	Certification	1 pc @	Certified Mill Test	Random sampling	Section D Sources.	
			24" per size/dia.	Report	eport and/or producer stock			
		Area <b>M32M</b>						
		Tensile Strength T244						
		Yield Strength T244						
		Area Reduction <b>T244</b>						
		Bend Test M32M						
	Welded Steel Wire Fabric for	Size <b>M55M</b>	Certification	2' X 2'	QPL-55 w/Certified Mill	Random sampling	Jobsite storage and/or producer	
	Reinforcement	Diameter <i>M55M</i>			Test Report		stock	
		Area <b>M55M</b>						
	Tensile Strength <b>7244</b>							
		Yield Strength <b>T244</b>						
		Area Reduction <b>T244</b>						
		Bend Test <i>M55M</i>						
			REPORT SM		GUIDE	FREQUENCY		

TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & Number	Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
		Weld Shear Strength						
		<b>M55M</b> Width <b>M55M</b>						
		Length M55M						
		Spacing <i>M55M</i>						
	Cylinders	Compressive Strength T22	Certification	3 ea.				
	Non- Reinforced	Concrete Pipe Diameter M86						
	Physical	Thickness <i>M86</i>	DOT 101					
	Properties of Pipe	Absorption <i>M86</i>	DOT-164		QPL-4 with CPT Sta	mp or pre-inspected by		
	1 150	Permeability <i>M86</i>			Office of Materials w	vith GDT Stamp		
		External Load Strength	OMR-INSP86					
		<b>T280</b>	OWIN-INGF00					
	Portland	Air Content <b>T137</b>	DOT-175		QPL-3			
	Cement	Fineness <i>M85</i>						
		Autoclave <b>M85</b>						
		Compressive Strength M85						
		Vicat <b>T131</b>						
		Chemical <i>M85</i>						
	Blended Hydraulic	Air Content <b>T137</b>	DOT-175		QPL-3			
	Cement	Fineness <i>M240</i> Autoclave <i>M240</i>						
		Compressive Strength <i>M240</i>						
		Vicat <b>7131</b>						
		Chemical <i>M240</i>						
	Fly Ash	Fineness M295	DOT-175		QPL-30			
		Activity M295						
		Soundness M295						
		Density M295						
		Chemical M295						
	Fine Aggregate	Gradation <b>727</b> Wash –200 <b>711</b>	DOT-658	20 lbs.	One per 500 tons based upon QPL-1,	QPL-1 Sources, 1 per month, per active plant,		
1				l		, , ,		ļ

	Sand Equivalent <i>GDT-63</i>			except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	except for Section D, Stockpile Basis Sources; GDOT will perform acceptance tests on materials delivered from Section D Sources.	
Coarse	Wash 200 <b>T11</b>	DOT-658	45 lbs.	One per 1,500 tons	QPL-2 Sources, 1	 
Aggregate	Gradation <b>727</b>			based upon QPL- 2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	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	Diameter <i>M196M</i>					 
Aluminum Alloy Underdrain	Depth & Spacing of Corrugations <b>M196M</b>					
Pipe	Thickness M197M					
	Arch Dimensions M196M	DOT-291		QPL-56 w/CMPT ins	spection tag	
	Chemical M197M					
	Tensile Strength T244					
	Yield Strength T244					
	Elongation <b>T244</b>					 
Corrugated Steel	Diameter <b>M36M</b>					
Underdrain Pipe	Depth & Spacing of Corrugations <b>M36M</b>	DOT-291		QPL-56 w/CMPT ins	spection tag	
	Thickness M36M					
	Galvanization M218M					
Corrugated Polyethylene	Diameter M252M					
Underdrain Pipe	Depth & Spacing of Corrugations <b>M252M</b>					
	Thickness M252M					
	Stiffness ASTM D2412	OMR-INSP- 89		QPL-51		
	Flattening <b>M252M</b>	09				
	Elongation <i>M252M</i>					
	Brittleness M252M					
	Flexibility M252M					

		Couplings M252M						
		Strength M252M						
	Smooth Lined	Diameter M294M						
	Corrugated Polyethylene Culvert Pipe	Depth & Spacing of Perforations M294M Thickness M294M	OMR-INSP89		QPL-51 w/PPT stamp or s	sticker		
		Stiffness M294M						
		Flattening <b>M294M</b>						
TYPE		,			GUIDE FREQUENCY			
CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
		Cracking M294M						
		Brittleness M294M						
		Fittings M294M						
574								
EDGE DRAINS	Corrugated Aluminum	Diameter M196M						
	Alloy Slope Drain Pipe	Depth & Spacing of Corrugations <b>M196M</b>						
		Thickness M197M						
		Arch Dimensions M196M	DOT-291		QPL-56 w/CMPT inspection tag			
		Chemical M197M						
		Tensile Strength T244						
		Yield Strength <b>T244</b>						
		Elongation T244						
	Reinforce Cone Physical	<u>crete Pipe</u> Diameter <i>M170</i>			QPL-4 with CPT Stamp or pre-inspected by			
	Properties of	Thickness M170	DOT-164	-	Office of Materials with GE	OI Stamp		
	Pipe	Reinforcement Design <i>M170</i>						
		External Load Strength <b>T280</b>	OMR-INSP86					
	Portland Cement	Air Content <b>7137</b>	DOT-175		QPL-3			
	Comon	Fineness M85						
		Autoclave <b>M85</b>						
		Compressive Strength <b>M85</b>						

1		Vicat <b>T131</b>						
		Chemical <i>M85</i>						
	Blended	Air Content T137	DOT-175		QPL-3			
	Hydraulic	Fineness M240						
'	Cement	Autoclave <b>M240</b>						
		Compressive Strength M240						
		Vicat <b>T131</b>						
		Chemical M240						
	Fly Ash	Fineness M295	DOT-175		QPL-30			
		Activity M295						
		Soundness M295						
		Density M295						
		Chemical M295						
	Fine	Gradation <b>727</b>	DOT-658	20 lbs.	One per 500 tons based	QPL-1 Sources, 1		
	Aggregate	Wash 200 <b>T11</b>			upon QPL-1, except for Section D, Stockpile	per month, per active plant, except		
		Sand Equivalent GDT-63			Basis Sources; material	for Section D,		
					from Section D must be sampled.	Stockpile Basis Sources;		
					sampied.	GDOT will perform		
						acceptance tests on		
						materials delivered		
						from Section D Sources.		
					GUIDE FREC			
				:				
TYPE		TEST PROCEDURES	REPORT	SIZE OF		QUALITY	LOCATION OR TIME	
CONSTRUCTION	MATERIAL	Name & <i>Number</i>	SM Report	SAMPLE	ACCEPTANCE	ASSURANCE	OF SAMPLING	REMARKS
	Coarse	Wash 200 <b>T11</b>	DOT-658 Ga658	45 lbs.	One per 1,500 tons	QPL-2 Sources, 1		
	Aggregate	Gradation <b>727</b>			based upon QPL-2, except for Section D,	per month, per active plant, except		
					Stockpile Basis Sources;	for Section D,		
					material from Section D	Stockpile		
					must be sampled.	Basis Sources; GDOT will perform		
						acceptance tests on		
						materials delivered		
						from Section D		
	Steel Wire for	Size <b>M32M</b>	Certification	1 pc @	Certified Mill Test Report	Sources. Random sampling	Jobsite storage	
	Reinforcement	Diameter <b>M32M</b>		24" per		. 3	and/or producer stock	
		Area <b>M32M</b>		size/dia.				
					1	İ	i l	
		Tensile Strength <b>T244</b>						
		Tensile Strength <b>7244</b> Yield Strength <b>7244</b>						

		Bend Test M32M						
	Welded Steel	Size <i>M55M</i>	Certification	2' X 2'	QPL-55 w/Certified Mill	Random sampling	Jobsite storage	
	Wire Fabric for Reinforcement	Diameter M55M			Test Report		and/or producer stock	
	remorecinent	Area <b>M55M</b>						
		Tensile Strength <b>T244</b>						
		Yield Strength T244						
		Area Reduction <b>T244</b>						
		Bend Test <b>M55M</b>						
		Weld Shear Strength <b>M55M</b>						
		Width <i>M55M</i>						
		Length <i>M55M</i>						
		Spacing <i>M55M</i>						
	Cylinders	Compressive Strength <b>722</b>	Certification	3 ea.				
	Non- Reinforced Physical Properties of Pipe	Concrete Pipe Diameter <i>M86</i>	DOT-164		QPL-4 with CPT Stamp or Office of Materials with GE	pre-inspected by DT Stamp		
		Thickness M86	OMR-INSP86					
		Absorption M86						
		Permeability <i>M86</i>						
		External Load Strength <b>T280</b>						
TYPE CONSTRUCTION		TEST			GUIDE FREG	QUENCY		
	MATERIAL	PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
	Portland	Air Content <b>T137</b>						
	Cement	Fineness M85						
		Autoclave M85						
		Compressive Strength M85	DOT-175		QPL-3			
		Vicat <b>T131</b>						
		Chemical M85						
	Blended	Air Content <b>T137</b>	DOT 475	<u> </u>	ODI 0			
	Hydraulic	Fineness M240	DOT-175		QPL-3			

Cement	Autoclave M240 Compressive Strength M240 Vicat T131 Chemical M240	-				
Fly Ash	Fineness M295 Activity M295 Soundness M295 Density M295 Chemical M295	DOT-175		QPL-30		
Fine Aggregate	Gradation <b>727</b> Wash –200 <b>711</b> Sand Equivalent <b>GDT-63</b>	DOT-658	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 <b>T11</b> Gradation <b>T27</b>	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 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 <b>727</b> Sand Equivalent <b>GDT-63</b> Minus No. 200 <b>711</b>	DOT-658	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.	
Coarse	Wash 200 <b>T11</b>	DOT-658	45 lbs.	One per 1,500 tons	QPL-2 Sources, 1	

Aggregate	Gradation <b>T27</b>			based upon QPL-2, except for Section D, Stockpile Basis Sources; material from Section D must be sampled.	per 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 <i>M295</i>	DOT-175		QPL-30			
	Activity M295						
	Soundness M295						
	Density M295						
	Chemical M295						
Portland Cement	Air Content <b>T137</b>	DOT-175		QPL-3			
Cement	Fineness <i>M85</i>						
	Autoclave M85						
	Compressive Strength <b>M85</b>						
	Vicat <b>T131</b>						
	Chemical M85						
Blended Hydraulic Cement	Air Content T137 Fineness M240 Autoclave M240 Compressive Strength M240 Vicat T131 Chemical M240	DOT-175		QPL-3			
Corrugated Polyethylene	Diameter M252M						
Underdrain Pipe	Depth & Spacing of Corrugations <i>M252M</i>						
	Thickness M252M						
	Stiffness ASTM D2412						
	Flattening <i>M252M</i>	OMR-INSP- 89		QPL-51			
	Elongation M252M	. 69					
	Brittleness M252M						
	Flexibility <b>M252M</b>						
	Couplings M252M						
	Strength M252M						
Drainage	Gradation T27	DOT-658		1 per 20, 000 tons	<del></del>		
Aggregate	Target Density GDT-59	DOT-553	Average of 5 tests	One per Source		Completed Course	

				from 100				
				ft control strip				
		Compaction GDT-59			One per mile			
					GUIDE FREC	UENCY		
TYPE						l		
CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	OF SAMPLING	REMARKS
	Hot Mix			<u>'</u>				
	Asphaltic Concrete	Compaction GDT-59	DOT-553		One per mile		Completed Course	
	Asphalt Cement	Dynamic Shear <i>TP-</i> 315		Two 1- quart cans	QPL-7	As per GSP-21	Storage Tank	
	Coarse	Wash 200 <b>T11</b>						
	Aggregate for Asphaltic Concrete	Gradation T27	DOT-658	45 lbs.	QPL-2	As necessary	Stockpile	
	Fine Aggregate	Gradation T11 & T27						
	for Asphaltic Concrete	Clay Lumps T112	DOT 050	00.11	ODL 4		0. 1 "	
		Sand Equivalent GDT-63	DOT-658	20 lbs.	QPL-1	As necessary	Stockpile	
		Mica Content ASTM C 295						
	Mineral Filler	Gradation <i>T11 &amp; T27</i>	DOT-168	10 lbs.	QPL-81	One per 500 tons, per Type, per Source	Silo	
	Hydrated Lime	Physical & Chemical Analysis <b>M216-84</b>						*Air-tight container
		Gradation T219	Certification	1 gallon.*	QPL-41	One per Quarter	Silo or Tanker	As required by SOP-
		Chemical <b>T219</b>						17
	Complete Mixture	Asphalt Binder Content: GDT-125, GDT-38, or T- 308	DOT 159	Varies Per Mix Type	Asphalt Producer will test 1 per 500 tons	GDOT will test two QA samples per 5 days production or 5 lots. 1 comparison sample per 10 days production.	Truck or Roadway	
		Stripping Test: GDT-59	DOT 159	300g	One per extraction		Same as extraction	For OGFC and PEM mixes only.
		Compaction: GDT-39, or GDT-56	DOT 150	Core	Five per lot*			Quantities less than 500 tons will be tested at 1 per 100 tons.  *Each test consists of 3 readings when Nuclear Gauge is used to determine density.
	Bituminous Tack Coat Asphalt Cement	Dynamic Shear: <b>T-315</b>		Two 1- quart cans	Once per week per distributor		Distributor	

	Plastic Filter Fabric - Non-Woven	Puncture Resistance ASTM D4833  Grab Tensile Strength ASTM D4632  Grab Elongation ASTM D4632  Flow Rate GDT-87	Certification	QPL-28			
576							
SLOPE DRAIN	Corrupted	Depth & Spacing of Corrugations M196M  Thickness M197M  Arch Dimensions M196M  Chemical M197M  Tensile Strength T244  Elongation T244	DOT-291	QPL-56 w/CMPT inspectio	n tag		
	Corrugated Steel Culvert Pipe  Smooth Lined Corrugated Polyethylene Culvert Pipe	Diameter M36M  Depth & Spacing of Corrugations M36M  Thickness M36M  Galvanization M218M  Diameter M294M  Depth & Spacing of Perforations M294M  Thickness M294M  Stiffness M294M  Flattening M294M  Brittleness M294M	DOT-291  OMR-INSP- 89	QPL-56 w/CMPT inspection			
	Polyvinyl	Fittings M294M Diameter M304	OMR-INSP-	 QPL-51 w/ PPT stamp or s			
1	,,		OIVIN-IINOF-	QIL-SIW/PFI Stamp of S	SUCKEI	]	

	Chloride (PVC) Profile Wall Drain Pipe	Depth & Spacing of Corrugation M304 Thickness M304 Stiffness M304 Flattening M304 Elongation M304 Brittleness M304 Flexibility M304 Couplings M304 Strength M304	89					
577								
METAL DRAIN INLETS	Asphaltic Concrete Asphalt Cement	Dynamic Shear <b>7-315</b>	DOT-504	two 1- quart cans	QPL-7	As per GSP-21	Storage Tank	
	Coarse	Wash 200 <b>T11</b>						
	Aggregate for Asphaltic Concrete	Gradation <b>727</b>	DOT-658	45 lbs.	QPL-2	As necessary	Stockpile	
	Fine Aggregate	Gradation T11 & T27						
	for Asphaltic Concrete	Clay Lumps T1121			0.51		O. 1. 11	
	Conorois	Sand Equivalent GDT-63	DOT-658	20 lbs.	QPL-1	As necessary	Stockpile	
		Mica Content						
					GUIDE FRE	QUENCY		
TYPE CONSTRUCTION	MATERIAL	TEST PROCEDURES Name & <i>Number</i>	REPORT SM Report	SIZE OF SAMPLE	ACCEPTANCE	QUALITY ASSURANCE	LOCATION OR TIME OF SAMPLING	REMARKS
	Mineral Filler	Gradation T11 & T27	DOT-168 Certification	10 lbs.	QPL-81	One per 500 tons, per Type, per Source	Silo	
	In-Place Material	Thickness Measurement GDT42	DOT-176		One per 1,000 ft, per 2 lanes	Observe 1 per 3 miles, per 2 lanes	Completed Course	
	Hydrated Lime	Physical & Chemical Analysis <b>M216-84</b>						*Airtight container
		Gradation <b>T219</b>	Certification	1 gallon*	QPL-41	One per Quarter	Silo or Tanker	As required by SOP-
		Chemical <b>T219</b>						17
	Complete Mixture	Asphalt Binder Content: GDT-125, GDT-38, or T- 308	DOT-159	Varies per Mix Type	Asphalt producer will test 1 per 500 tons	GDOT will test two QA samples per 5 days production or 5 lots. 1 comparison sample per 10 days production.	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 OGFC and PEM mixes only.
	Compaction GDT-39, or GDT-59	DOT-150	Core	Five per Lot*		After Compaction	Quantities less than 500 tons will be tested at 1 per 100 tons.
							*Each test consists of 3 readings when Nuclear Gauge is used to determine Density.
Concrete Fly Ash							
Fly Asii	Fineness <b>M295</b> Activity <b>M295</b>						
	Soundness M295						
	Density <b>M295</b>						
	Chemical <b>M295</b>	DOT 175		QPL-30			
Portland	Air Content <b>T137</b>	DOT-175		QFL-30			
Cement	Fineness <i>M85</i>						
	Autoclave <i>M85</i>						
	Compressive Strength M85	DOT-175		QPL-3			
	Vicat <b>T131</b>						
	Chemical <i>M85</i>						
Portland Pozzolan	Air Content <b>T137</b>						
Cement	Fineness M240 Autoclave M240						
	Compressive Strength	DOT-175		QPL-3			
	M240	201 170		Qi E 0			
	Vicat <b>T131</b>						
	Chemical <i>M240</i>						
Sand-Cement Bag Rip Rap	Compressive Strength <b>722</b>						
249	Moisture Content <b>T134</b>	Certification	45 lbs.	Laboratory Mix Design			
Slana Dania Di	Bag Material & Size						
Slope DrainPip Corrugated	<u>e</u> Diameter <b>M196M</b>						
Aluminum Alloy Pipe	Depth & Spacing of Corrugations <b>M196M</b>	DOT-291		QPL-56 w/ CMPT inspect	tion tag		
	Thickness M197M						

	Arch Dimensions M196M						
	Chemical <i>M197M</i>	_					
	Tensile Strength T244	_					
	Yield Strength <b>T244</b>	_					
	Elongation T244	_					
Corrugated	Diameter <i>M26M</i>						
Steel Pipe	Depth & Spacing of Corrugations <i>M36M</i>	DOT-291		QPL-56 w/ CMPT inspe	ction tag		
	Thickness M36M	1 201 231		QI E 00 W/ CIVII 1 IIIOpe	olion tag		
	Galvanization <i>M218M</i>	_					
Smooth Lined	Diameter <i>M294M</i>						
Corrugated Polyethylene Pipe	Depth & Spacing of Perforations <b>M294M</b>	-					
pu	Thickness <b>M294M</b>	-					
	Stiffness M294M	OMR-INSP-		QPL-51 w/ PPT stamp of	or sticker		
	Flattening <b>M294M</b>	89		Q E O W T T Stamp	or sticker		
	Cracking M294M						
	Brittleness M294M						
Acabaltia Cana	Fittings M294M						
When placed in		n in Section 400, an	two 1- quart	one per week per distributor.	em, no additional samples  One per Project	of AC, CA, FA, or Mine	eral Filler required.
When placed in Tack Coat  Asphalt	rete Curb conjunction with the Pay Item	n in Section 400, an	two 1- quart cans Two 1- quart	One per week per			eral Filler required.
Asphaltic Conc When placed in Tack Coat Asphalt Cement	rete Curb conjunction with the Pay Item Dynamic Shear: <i>T-315</i>	Certification	two 1- quart cans	One per week per distributor.	One per Project	distributor	eral Filler required.
When placed in Tack Coat  Asphalt Cement  Mineral Filler	rete Curb conjunction with the Pay Item Dynamic Shear: <i>T-315</i> Dynamic Shear <i>T-315</i>		two 1- quart cans Two 1- quart cans	One per week per distributor.  Once per week	One per Project  One per Project  One per 1,000 tons, per Type, per Source  GDOT will test two QA samples per 5 days production or 5 lots. 1 comparison	distributor storage tank	*Job Mix Formula
When placed in Tack Coat  Asphalt Cement  Mineral Filler  Completed Mix	rete Curb conjunction with the Pay Item Dynamic Shear: T-315  Dynamic Shear T-315  Gradation T11 & T27  Asphalt Binder Content: GDT-125, GDT-38, or T-	Certification	two 1- quart cans Two 1- quart cans 10 lbs.	One per week per distributor.  Once per week  QPL-81  Asphalt producer will	One per Project  One per Project  One per 1,000 tons, per Type, per Source  GDOT will test two QA samples per 5 days production or 5	storage tank Stock	*Job Mix Formula
When placed in Tack Coat  Asphalt Cement  Mineral Filler  Completed Mix	rete Curb conjunction with the Pay Item Dynamic Shear: T-315  Dynamic Shear T-315  Gradation T11 & T27  Asphalt Binder Content: GDT-125, GDT-38, or T-308	Certification	two 1- quart cans Two 1- quart cans 10 lbs.	One per week per distributor.  Once per week  QPL-81  Asphalt producer will	One per Project  One per Project  One per 1,000 tons, per Type, per Source  GDOT will test two QA samples per 5 days production or 5 lots. 1 comparison	storage tank Stock	*Job Mix Formula
When placed in Tack Coat  Asphalt Cement  Mineral Filler  Completed Mix	rete Curb conjunction with the Pay Item Dynamic Shear: T-315  Dynamic Shear T-315  Gradation T11 & T27  Asphalt Binder Content: GDT-125, GDT-38, or T-308  Gradation T27	Certification  Dot-159	two 1- quart cans Two 1- quart cans 10 lbs.	One per week per distributor.  Once per week  QPL-81  Asphalt producer will test 1 per 500 tons	One per Project  One per 1,000 tons, per Type, per Source  GDOT will test two QA samples per 5 days production or 5 lots. 1 comparison per 10 days	storage tank Stock	*Job Mix Formula
When placed in Tack Coat  Asphalt Cement	rete Curb conjunction with the Pay Item Dynamic Shear: T-315  Dynamic Shear T-315  Gradation T11 & T27  Asphalt Binder Content: GDT-125, GDT-38, or T-308  Gradation T27  Wash 200 T11	Certification  Dot-159	two 1- quart cans Two 1- quart cans 10 lbs.	One per week per distributor.  Once per week  QPL-81  Asphalt producer will test 1 per 500 tons	One per Project  One per 1,000 tons, per Type, per Source  GDOT will test two QA samples per 5 days production or 5 lots. 1 comparison per 10 days	storage tank Stock	