



Purpose

The purpose of this Construction Bulletin is to provide guidance to meet expanded federal requirements requiring American made materials in construction contracts.

Background

On November 15, 2021, President Biden signed into law the Infrastructure Investment and Jobs Act (IIJA), which includes the Build America, Buy America Act¹. (BABA) While existing Buy America requirements previously applied to iron, steel, and certain manufactured goods, BABA expands requirements to include all manufactured products and construction materials in construction contracts that include federal funding in the construction phase.

Manufactured products include any item produced as a result of the manufacturing process. Items that consist of two or more of the listed construction materials that have been combined together through a manufacturing process, and items that include at least one of the listed materials combined with a material that is not listed through a manufacturing process, should be treated as manufactured products, rather than as construction materials.

Construction materials are defined as an article, material, or supply that is or consists primarily of non-ferrous metals, plastic and polymer-based products (including polyvinylchloride, composite building materials, and polymers used in fiber optic cables), glass (including optic glass), lumber or drywall. Construction Materials do not include items of primarily iron or steel; manufactured products; cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives.

Existing nationwide waivers are being updated for manufactured products and for pig iron and processed, pelletized, and reduced iron ore.

Guidance

Projects with federal construction funding will be subject to the new BABA requirements. WSDOT special provisions to be included will note all waivers.

Certification Requirements will remain the same for steel and iron materials. The Contractor is required to submit a Certification of Material Origin for all Construction Materials. The Certification will be completed for each pay estimate period, certifying that all Construction Materials that have been installed for that pay period are of domestic origin, or noting any that are of foreign origin. Construction Materials of foreign origin are not acceptable and the PE must ensure to defer payment. Payment shall

1. Public Law 117-58, div G §§70901-52

be withheld until the CMO has been received each month. The project engineer shall discuss this at the pre-construction meeting.

Project teams shall follow SS 1-05.7 if materials are installed, and they don't meet the BABA requirements.

Project teams may need to seek waivers on some requirements and submit them to federal agencies for consideration in the project development phase. Due to the length of time to obtain a waiver, WSDOT must seek waivers and not transfer the risk to Contractors.

Resources**General Special Provisions:**

1-06.GR1 Control of Material (SS Heading)

1-06.OPT2.GR1 Build America/Buy America (Heading)

1-06.OPT2(A).GR1, BABA funding (includes steel & iron, CN materials, manufactured materials)

1-06.OPT2(B).FR1, BABA funding (List excluded temporary steel & iron, CN materials)

(Use existing Buy America GSPs listed under the heading 1-06.OPT1.GR1, when a project's NEPA phase is federally funded but there is no federal construction funding.)

Design Build Templates:

Internally available at Design-Build Program – Home (SharePoint) in October 2022.

Externally available by contacting Designbuild@wsdot.wa.gov.

Forms:

- Certificate of Materials Origin, DOT Form 350-109 (Use for steel)
- Certificate of Materials Origin, DOT Form 350-110 (Use for construction materials)

Manuals:

Construction Manual updates available in spring 2023.

Implementation Plan

New and updated GSPs will be available October 5, 2022. Any project advertised on or after October 17, 2022, with federal construction funding will be subject to the new BABA requirements. Therefore, if a federally funded project has been advertised without BABA an addendum will be required.



Design Build Projects with proposals opened and Apparent Best Value determinations on/after November 10th, 2022, will include the BABA requirements.

Additional Information

The Construction Office has generated list of materials and their designated category for BABA Requirement. This list will be revised as WSDOT becomes more familiar with FHWA expectations for the BABA program. (See Attachment A)

Contact Information

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Comments

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
9-01 Cement				
9-02 Bituminous Materials				
9-03 Aggregate				
	9-04 Joint Sealing Materials			
	9-04.1(1) Asphalt Filler for Contraction and Longitudinal Joints in Concrete Pavements			
	9-04.1(2) Premolded Joint Filler for Expansion Joints			
	9-04.2 Joint Sealants			
	9-04.2(1) Hot Poured Joint Sealants			
	9-04.2(1)A1 Hot Poured Sealant for Cement Concrete Pavement			
	9-04.2(1)A2 Hot Poured Sealant for Bituminous Pavement			
	9-04.2(1)B Sand Slurry for Bituminous Pavement			
	9-04.2(1)C Polymer Modified Asphalt Mastic			
	9-04.2(2) Poured Rubber Joint Sealer			
	9-04.2(3) Single-Component Polyurethane Sealant			
		9-04.2(3)A Closed Cell Foam Backer Rod		
	9-04.3 Joint Mortar			
		9-04.4 Pipe Joint Gaskets		
		9-04.4(1) Rubber Gaskets for Concrete Pipes and Precast Manholes		
		9-04.4(3) Gaskets for Aluminum or Steel Culvert or Storm Sewer Pipe		
		9-04.4(4) Rubber Gaskets for Aluminum or Steel Drain Pipe		
		9-04.5 Flexible Plastic Gaskets		
		9-04.6 Expanded Polystyrene		
		9-04.7 Expanded Rubber		
		9-04.8 Flexible Elastomeric Seals		

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
		9-04.9 Solvent Cements		
		9-04.10 Butyl Rubber and Nitrile Rubber		
		9-04.11 Butyl Rubber Sealant		
		9-04.12 External Sealing Band		
	9-05.1(1) Concrete Drain Pipe			
			9-05.1(2) Zinc Coated or Aluminum Coated Corrugated Iron or Steel Drain Pipe	
		9-05.1(2)A Coupling Bands		
		9-05.1(3) Corrugated Aluminum Alloy Drain Pipe		
		9-05.1(3)A Coupling Bands		
		9-05.1(5) PVC Drain Pipe, Couplings, and Fittings		
		9-05.1(6) Corrugated Polyethylene Drain Pipe, Couplings, and Fittings (Up to 10 inch)		
		9-05.1(7) Corrugated Polyethylene Drain Pipe, Couplings, and Fittings (12 inch Through 60 inch)		
	9-05.2(2) Perforated Concrete Underdrain Pipe			
			9-05.2(4) Zinc Coated (Galvanized) or Aluminum Coated (Aluminized) Corrugated	
		9-05.2(4)A Coupling Bands		
		9-05.2(5) Perforated Corrugated Aluminum Alloy Underdrain Pipe		
		9-05.2(5)A Coupling Bands		
		9-05.2(6) Perforated PVC Underdrain Pipe		
		9-05.2(7) Perforated Corrugated Polyethylene Underdrain Pipe (Up to 10 inch)		

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
		9-05.2(8) Perforated Corrugated Polyethylene Underdrain Pipe (12-Inch Through 60 Inch Diameter Maximum), Couplings, and Fittings		
	9-05.3 Concrete Culvert Pipe			
	9-05.3(1) Plain Concrete Culvert Pipe			
	9-05.3(1)A End Design and Joints			
			9-05.3(2) Reinforced Concrete Culvert Pipe	
	9-05.3(2)A End Design and Joints			
			9-05.3(2)D Elliptical Reinforcement	
	9-05.3(3) Beveled Concrete End Sections			
			9-05.4 Steel Culvert Pipe and Pipe Arch	
9-05.4(3) Protective Treatment				
9-05.4(4) Asphalt Coatings and Paved Inverts				
		9-05.4(5) Polymer Protective Coating		
9-05.4(6) Spun Asphalt Lining				
			9-05.4(7) Coupling Bands	
			9-05.4(8) Steel Nestable Pipe	
			9-05.4(9) Steel End Sections	
		9-05.4(9)C Toe Plate Extensions	9-05.4(9)C Toe Plate Extensions	
		9-05.5 Aluminum Culvert Pipe		
		9-05.5(5) Coupling Bands	9-05.5(5) Coupling Bands	Type determines category.
		9-05.5(6) Aluminum End Sections		
			9-05.6 Structural Plate Pipes, Arches and Boxes	
			9-05.6(1) Steel Structural Plate Structures	

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
		9-05.6(2) Aluminum Structural Plate Structures		
	9-05.7(1) Plain Concrete Storm Sewer Pipe			
			9-05.7(2) Reinforced Concrete Storm Sewer Pipe	
	9-05.7(3) Concrete Storm Sewer Pipe Joints			
		9-05.8 Vitrified Clay Sewer Pipe		
			9-05.9 Steel Spiral Rib Storm Sewer Pipe	
			9-05.9(1) Continuous Lock Seam Pipe	
			9-05.10 Steel Storm Sewer Pipe	
		9-05.11 Aluminum Storm Sewer Pipe		
		9-05.11(1) Coupling Bands		
		9-05.12 Polyvinyl Chloride (PVC) Pipe		
		9-05.12(1) Solid Wall PVC Culvert Pipe, Solid Wall PVC Storm Sewer Pipe, and Solid Wall PVC Sanitary Sewer Pipe		
		9-05.12(2) Profile Wall PVC Culvert Pipe, Profile Wall PVC Storm Sewer Pipe, and Profile Wall PVC Sanitary Sewer Pipe		
			9-05.13 Ductile Iron Sewer Pipe	
		9-05.14 ABS Composite Sewer Pipe		
			9-05.15 Metal Castings	
			9-05.15(1) Manhole Ring and Cover	
			9-05.15(2) Metal Frame, Grate, and Solid Metal Cover for Catch Basins or Inlets	
			9-05.15(3) Cast Metal Inlets	
	9-05.16 Grate Inlets and Drop Inlets			

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
		9-05.17 Aluminum Spiral Rib Storm Sewer Pipe		
		9-05.17(1) Continuous Lock Seam Pipe		
		9-05.17(2) Coupling Bands		
			9-05.18 Safety Bars for Culvert Pipe	
		9-05.19 Corrugated Polyethylene Culvert Pipe, Couplings, and Fittings		
		9-05.20 Corrugated Polyethylene Storm Sewer Pipe, Couplings, and Fittings		
			9-05.21 Steel Rib Reinforced Polyethylene Culvert Pipe	
			9-05.22 Steel Rib Reinforced Polyethylene Storm Sewer Pipe	
		9-05.23 High-Density Polyethylene (HDPE) Pipe		
		9-05.24 Polypropylene Culvert Pipe, Polypropylene Storm Sewer Pipe, and Polypropylene Sanitary Sewer Pipe		
		9-05.24(1) Polypropylene Culvert Pipe and Storm Sewer Pipe		
		9-05.24(2) Polypropylene Sanitary Sewer Pipe		
	9-05.50 Precast Concrete Drainage Structures			
	9-05.50(2) Manholes			
	9-05.50(3) Precast Concrete Catch Basins			
	9-05.50(4) Precast Concrete Inlets			
	9-05.50(5) Precast Concrete Drywells			
	9-05.50(9) Synthetic Micro Fibers for Precast Units			
	9-05.50(10) Synthetic Macro Fibers for Precast Units			

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
			9-06 Structural Steel and Related Materials	
			9-06.5(1) Unfinished Bolts	
			9-06.5(3) High-Strength Bolts	
			9-06.5(4) Anchor Bolts and Anchor Rods	
			9-06.8 Steel Castings	
			9-06.9 Gray Iron Castings	
			9-06.10 Malleable Iron Castings	
			9-06.11 Steel Forgings and Steel Shafting	
		9-06.12 Bronze Castings		
			9-06.14 Ductile Iron Castings	
			9-06.15 Welded Shear Connectors	
			9-06.16 Roadside Sign Structures	
			9-06.17 Noise Barrier Wall Access Door	
		9-06.18 Metal Bridge Railing	9-06.18 Metal Bridge Railing	Type determines category.
			9-06.19 Strip Seal and Modular Expansion Joint System Components	
			9-06.22 Bolts, Washers, and Other Hardware	
			9-07 Reinforcing Steel	
			9-07.4 Plain Steel Bars	
			9-07.5 Dowel Bars (for Cement Concrete Pavement)	
			9-07.7 Welded Wire Reinforcement	
			9-07.8 Deformed Wire	
			9-07.9 Cold Drawn Wire	
			9-07.10 Prestressing Reinforcement Strand	
			9-07.11 Prestressing Reinforcement Bar	
	9-08 Paints and Related Materials			
	9-08.1(2)A Vinyl Pretreatment			
	9-08.1(2)B Galvanizing Repair Paint, High Zinc Dust Content			
	9-08.1(2)C Inorganic Zinc-Rich Primer, Shop Applied			
	9-08.1(2)D Vacant			
	9-08.1(2)E Epoxy Polyamide			

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
	9-08.1(2)F Primer, Zinc-Rich, Single-Component, Moisture-Cured Polyurethane, Field Applied			
	9-08.1(2)G Intermediate and Stripe Coat, Single Component, Moisture-Cured Polyurethane			
	9-08.1(2)H Top Coat, Single-Component, Moisture-Cured Polyurethane			
	9-08.1(2)I Rust-Penetrating Sealer			
	9-08.1(2)J Black Enamel			
	9-08.1(2)K Orange Equipment Enamel			
	9-08.1(2)L Exterior Acrylic Latex Paint-White			
	9-08.2 Powder Coating Materials for Coating Galvanized Surfaces			
	9-08.3(1) Pigmented Sealer Materials			
	9-08.3(2)A Retardant Coating			
	9-08.3(2)B Clear Sealer			
	9-08.3(3) Permeon Treatment			
	9-08.4 Abrasive Blast Materials			
	9-08.5 Surface Cleaning Materials			
		9-08.6 Filter Fabric		
	9-08.7 Single-Component Polyurethane Sealant			
	9-08.8 Foam Backer Rod			
		9-09 Timber and Lumber		
		9-09.2(1) Structures		
		9-09.2(2) Guardrail Posts and Blocks		
		9-09.2(3) Signposts, Mileposts, Sawed Fence Posts, and Mailbox Posts		

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
		9-09.3 Preservative Treatment		
		9-09.3(1) General Requirements		
		9-10.1 Timber Piling		
		9-10.1(1) Untreated Piling		
		9-10.1(2) Creosote Treated Piling		
		9-10.1(3) Timber Composite Piling		
	9-10.2 Concrete Piling			
			9-10.2(2) Reinforcement	
			9-10.3 Cast-In-Place Concrete Piling (reinforcement Steel)	
			9-10.4 Steel Pile Tips and Shoes	
	9-11 Waterproof Membrane			
9-12 Masonry Units				
9-12.1 Concrete Blocks				
9-12.2 Concrete Brick				
9-13 Riprap, Quarry Spalls, Slope Protection, and Rock for Erosion and Scour Protection and Rock Walls				
9-13.5(3) Pneumatically Placed Portland Cement or Blended Hydraulic Cement Concrete Slope Protection				
9-14 Erosion Control and Roadside Planting				
	9-14.4 Fertilizer			
9-14.2(1) Topsoil Type A				
9-14.2(2) Topsoil Type B				
9-14.2(3) Topsoil Type C				
	9-14.3 Seed			
	9-14.4 Fertilizer			
	9-14.5(1) Straw			
	9-14.5(2) Hydraulically Applied Erosion Control Products (HECPs)			
	9-14.5(2)A Long-Term Mulch			

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
	9-14.5(2)B Moderate-Term Mulch			
	9-14.5(2)C Short-Term Mulch			
		9-14.5(3) Bark or Wood Chip Mulch		
		9-14.5(4) Wood Strand Mulch		
	9-14.5(5) Agricultural Grade Dolomite Lime			
	9-14.5(6) Agricultural Grade Gypsum			
	9-14.5(7)A Organic Tackifier			
	9-14.5(7)B Synthetic Tackifier			
	9-14.5(8) Compost			
	9-14.5(9) Horticultural Grade Perlite			
	9-14.6(1) Polyacrylamide (PAM			
	9-14.6(2) Biodegradable Erosion Control Blanket			
	9-14.6(2)A Biodegradable Erosion Control Blanket for Slopes Steeper than 3:1 (H:V)			
	9-14.6(2)B Biodegradable Erosion Control Blanket for Slopes Flatter than 3:1 (H:V)			
	9-14.6(2)C Biodegradable Erosion Control Blanket for Ditches			
		9-14.6(3) Plastic Covering		
	9-14.6(4)A Biodegradable Check Dams			
	9-14.6(4)B Non-biodegradable Check Dams			
	9-14.6(5) Wattles			
	9-14.6(6) Compost Socks			
	9-14.6(7) Coir Log			
		9-14.6(8) High Visibility Fencing		
		9-14.6(9) High Visibility Silt Fence		
	9-14.7 Plant Materials			
	9-14.7(4) Sod			
	9-14.8 Stakes, Guys, and Wrapping			
			9-15.1(1) Galvanized Pipe and Fittings	

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
		9-15.1(2) Polyvinyl Chloride Pipe and Fittings		
		9-15.1(3) Polyethylene Pipe		
		9-15.2 Drip Tubing		
	9-15.3 Automatic Controllers			
	9-15.4 Irrigation Heads			
	9-15.5 Valve Boxes			
	9-15.6 Gate Valves			
	9-15.7 Control Valves			
	9-15.7(1) Manual Control Valves			
	9-15.7(2) Automatic Control Valves			
	9-15.7(3) Automatic Control Valves With Pressure Regulator			
		9-15.8 Quick Coupling Equipment		
		9-15.9 Drain Valves		
		9-15.10 Hose Bibs		
	9-15.11 Cross Connection Control Devices			
	9-15.12 Check Valves			
	9-15.13 Pressure Regulating Valves			
	9-15.14 Three-Way Valves			
	9-15.15 Flow Control Valves			
	9-15.16 Air Relief Valve			
	9-15.17 Electrical Wire and Splices			
	9-15.18 Detectable Marking Tape			
	9-15.19 Wye Strainers			
			9-16.1 Chain Link Fence and Gates	
			9-16.1(1)A Post Material for Chain Link Fence	
			9-16.1(1)B Chain Link Fence Fabric	
			9-16.1(1)C Tension Wire	
			9-16.1(1)D Fittings and Hardware	
			9-16.1(1)E Chain Link Gates	
9-16.1(1)F Concrete				
			9-16.2 Wire Fence and Gates	
			9-16.2(1)A Steel Post Material	
		9-16.2(1)B Wood Fence Posts and Braces		

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
			9-16.2(1)C Brace Wire	
			9-16.2(1)D Staples and Wire Clamps	
			9-16.2(1)E Barbed Wire	
			9-16.2(1)F Wire Mesh	
			9-16.2(1)G Vertical Cinch Stays	
			9-16.2(1)H Miscellaneous Hardware	
			9-16.2(1)I Wire Gates	
9-16.2(1)J Concrete				
			9-16.3 Beam Guardrail	
			9-16.3(1) Rail Element	
		9-16.3(2) Posts and Blocks		
	9-16.3(3) Galvanizing			
			9-16.3(4) Hardware	
			9-16.3(5) Anchors	
			9-16.4 Wire Mesh Slope Protection	
			9-16.4(3) Wire Rope	
			9-16.4(4) Hardware	
			9-16.4(5) Fasteners and Lacing Wire	
			9-16.4(6) Ground Anchors	
			9-16.6 Glare Screen	
		9-16.6(2) Glare Screen Fabric	9-16.6(2) Glare Screen Fabric	Type determines category.
			9-16.6(3) Posts	
			9-16.6(4) Tension Wire	
			9-16.6(6) Tension Wire Attachments	
		9-16.6(7)A Wood Slats		
		9-16.6(7)B Plastic Slats		
			9-16.6(8) Fittings	
			9-16.6(9) Fabric Bands and Stretcher Bars	
			9-16.6(10) Tie Wire and Hog Rings	
	9-17 Flexible Guide Posts			
	9-17.1(2) Reflective Sheeting			
9-20 Concrete Patching Material, Grout, and Mortar				
	9-21 Raised Pavement Markers (RPM)			
	9-21.1 Raised Pavement Markers Type 1			

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
	9-21.2 Raised Pavement Markers Type 2			
	9-21.3 Raised Pavement Markers Type 3			
			9-22 Monument Cases	
	9-23 Concrete Curing Materials, Bonding Agents, and Admixtures			
		9-24 Plastic Waterstop		
9-25 Water				
	9-26 Epoxy Resins			
	9-26.1 Epoxy Bonding Agents			
	9-26.2 Epoxy Adhesive for Lane Markers			
	9-26.3 Epoxy Grout/Mortar/Concrete			
			9-27 Cribbing	
			9-27.3(1) Gabion Fabric	
			9-27.3(2) Gabion Baskets	
			9-27.3(3) Gabion Mattresses	
			9-27.3(4) Fasteners for Basket Assembly	
9-27.3(6) Stone				
	9-28 Signing Materials and Fabrication			
			9-28.11 Hardware	
		9-28.14(1) Timber Sign Posts		
			9-28.14(2) Steel Structures and Posts	
			9-28.14(2)A Monotube Sign Bridge and Cantilever Sign Structures	
		9-28.14(3) Aluminum Structures		
			9-29.1(1) Rigid Metal Conduit, Galvanized Steel Outerduct, and Fittings	
			9-29.1(2) Rigid Metal Conduit Fittings and Appurtenances	
			9-29.1(2)A Expansion Fittings, Deflection Fittings, and Combination Expansion/Deflection Fittings	
			9-29.1(3) Flexible Metal Conduit	

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
			9-29.1(3)A Flexible Metal Conduit Appurtenances	
		9-29.1(4)A Rigid PVC Conduit		
		9-29.1(4)B Expansion Fittings		
		9-29.1(4)C HDPE Conduit		
	9-29.1(5) Innerduct and Outerduct			
	9-29.1(5)A Rigid Galvanized Steel Outerduct With PVC or PE Innerduct			
	9-29.1(5)B Rigid PVC Outerduct With PVC or PE Innerduct			
	9-29.1(5)C Innerduct for Straight Sections of Galvanized Steel Outerduct or PVC Outerduct			
	9-29.1(5)D Conduit With Innerducts Fittings and Appurtenances			
	9-29.1(6) Detectable Underground Warning Tape			
			9-29.1(7) Steel Casings	
	9-29.2 Junction Boxes, Cable Vaults, and Pull Boxes			
	9-29.2(1)A1 Concrete Junction Boxes			
	9-29.2(1)A2 Non-Concrete Junction Boxes			
	9-29.2(1)B Heavy-Duty Junction Boxes			
	9-29.2(2) Cable Vaults and Pull Boxes			
	9-29.2(2)A Standard Duty Cable Vaults and Pull Boxes			
	9-29.2(2)B Heavy-Duty Cable Vaults and Pull Boxes			
	9-29.3 Fiber Optic Cable, Electrical Conductors, and Cable			
			9-29.6 Light and Signal Standards	
		9-29.6(3) Timber Light Standards, Timber Strain Poles, Timber Service Supports		
			9-29.6(5) Foundation Hardware	

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
	9-29.7 Luminaire Fusing and Electrical Connections at Light Standard Bases, Cantilever Bases, and Sign Bridge Bases			
	9-29.9 Ballast, Transformers			
	9-29.9(1) Ballast			
	9-29.9(2) Transformers			
			9-29.10 Luminaires	
	9-29.11 Control Equipment			
	9-29.12 Electrical Splice Materials			
	9-29.13 Control Cabinet Assemblies			
	9-29.15 Flashing Beacon Control			
	9-29.16 Vehicular Signal Heads, Displays, and Housing			
	9-29.16(1) Optically Programmed, Adjustable Face, and Programmable Array 12-Inch Traffic Signal			
	9-29.16(1)A Optical System			
	9-29.16(1)A1 Non-LED Optical System			
	9-29.16(1)A2 LED Programmable Array			
	9-29.16(1)B Housing Construction			
	9-29.16(1)D Housing Electrical			
	9-29.16(1)E Photo Controls			
	9-29.16(1)E2 LED Photo Controls			
	9-29.16(2) Conventional Traffic Signal Heads			
	9-29.16(3) Polycarbonate Traffic Signal Heads			
	9-29.19 Pedestrian Push Buttons			
	9-29.20 Pedestrian Signals			
	9-29.21 Flashing Beacon			
	9-29.24 Service Cabinets			
			9-30.1(1) Ductile Iron Pipe	
	9-30.1(2) Polyethylene Encasement			
			9-30.1(4) Steel Pipe	
			9-30.1(4)A Steel Pipe (6 inches and Over)	
			9-30.1(4)B Steel Pipe (4 inches and Under)	

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
		9-30.1(5) Polyvinyl Chloride (PVC)		
		9-30.1(5)A Polyvinyl Chloride (PVC) Pipe (4 inches and Over)		
		9-30.1(5)B Polyvinyl Chloride (PVC) Pipe (Under 4 inches)		
		9-30.1(6) Polyethylene (PE) Pressure Pipe (4 inches and Over)		
			9-30.2 Fittings	
			9-30.2(1) Ductile Iron Pipe	
			9-30.2(4) Steel Pipe	
			9-30.2(4)A Steel Pipe (6 inches and Over)	
			9-30.2(4)B Steel Pipe (4 inches and Under)	
		9-30.2(5) Polyvinyl Chloride (PVC) Pipe		
		9-30.2(5)A Polyvinyl Chloride (PVC) Pipe (4 inches and Over)		
		9-30.2(5)B Polyvinyl Chloride (PVC) Pipe (Under 4 inches)		
			9-30.2(7) Bolted, Sleeve-Type Couplings for Plain End Pipe	
			9-30.2(8) Restrained Flexible Couplings	
		9-30.2(10) Polyethylene (PE) Pipe (4 inches and Over)		
			9-30.2(11) Fabricated Steel Mechanical Slip-Type Expansion Joints	
			9-30.3 Valves	
	9-30.3(1) Gate Valves (3 to 16 inches)			
	9-30.3(3) Butterfly Valves			
	9-30.3(4) Valve Boxes			
	9-30.3(5) Valve Marker Posts			
	9-30.3(6) Valve Stem Extensions			

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
	9-30.3(7) Combination Air Release/Air Vacuum Valves			
	9-30.3(8) Tapping Sleeve and Valve Assembly			
	9-30.5 Hydrants			
			9-30.5(3) Hydrant Extensions	
	9-30.5(4) Hydrant Restraints			
			9-30.5(5) Traffic Flange	
	9-30.5(6) Guard Posts			
	9-30.6 Water Service Connections (2 inches and Smaller)			
	9-30.6(1) Saddles		9-30.6(1) Saddles	
	9-30.6(2) Corporation Stops	9-30.6(3)A Copper Tubing		
		9-30.6(3)B Polyethylene Tubing		
		9-30.6(3)C PEX-a Tubing		
	9-30.6(4) Service Fittings			
	9-30.6(5) Meter Setters			
		9-30.6(6) Bronze Nipples and Fittings		
	9-30.6(7) Meter Boxes			
			9-31.1 Steel Plates and Bars	
			9-31.2 Stainless Steel	
			9-31.3 Bearing Blocks and Keeper Rings	
			9-31.4 Pin Assembly	
			9-31.5 Welded Shear Connectors	
			9-31.6 Bolts, Nuts and Washers	
			9-31.7 Anchor Array Rods, Nuts and Washers	
			9-31.8(1) Elastomeric Pads	
	9-31.8(2) Polytetrafluoroethylene (PTFE)			
	9-31.8(3) Pre-formed Fabric Pad			
	9-31.9 Polyether Urethane			
	9-31.11 Epoxy Gel			
	9-31.12 Resin Filler			

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
			9-32.1 Steel Posts	
			9-32.2 Bracket, Platform, and Anti-Twist Plate	
			9-32.5 Fasteners	
			9-32.7 Type 2 Mailbox Support	
	9-32.8 Concrete Base			
			9-32.9 Steel Pipe	
		9-33 Construction Geosynthetic		
		9-33.1 Geosynthetic Material Requirements		
		9-33.2(1) Geotextile Properties		
		9-33.2(2) Geotextile Properties for Retaining Walls and Reinforced Slopes		
		9-33.2(3) Prefabricated Drainage Mat		
9-33.3 Aggregate Cushion of Permanent Erosion Control Geotextile				
	9-33.4 Geosynthetic Material Approval and Acceptance			
	9-34.2 Paint			
	9-34.2(4) Low VOC Solvent Based Paint			
	9-34.2(6) Temporary Pavement Marking Paint			
	9-34.3(1) Type A – Liquid Hot Applied Thermoplastic			
	9-34.3(2) Type B – Pre-Formed Fused Thermoplastic			
	9-34.3(3) Type C – Cold Applied Pre-Formed Tape			
	9-34.3(4) Type D – Liquid Cold Applied Methyl Methacrylate			
		9-34.4 Glass Beads for Pavement Marking Materials		

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Build America Buy America Act (BABA) Materials				
Exempt	Manufactured Product	Construction Material	Steel or Iron	Comments
	9-34.5 Temporary Pavement Marking Tape			
	9-34.6 Temporary Flexible Raised Pavement Markers			
	9-35 Temporary Traffic Control Materials			
			9-36.1(1) Permanent Casing	
	9-36.2(1) Mineral Slurry			
	9-36.2(2) Synthetic Slurry			
			9-36.3 Steel Reinforcing Bar Centralizers	
			9-36.4 Access Tubes and Caps	
9-36.5 Grout for Access Tubes				