

Special Notice to Contractors – 24

To be used on projects with a federal funding obligation date for the construction phase on or after October 23, 2023, and that contains the Revision of Sections 101 and 106 - Buy American and Build America, Buy America Requirements for Projects Containing \$500,000 or More in Federal-Aid Highway Funding (January 8, 2024); or the Revision of Sections 101 and 106 Buy America and Build America, Buy America Requirements for Projects Containing Federal-Aid Highway Funding in the Amount Less Than \$500,000 (January 8, 2024).

1. SCOPE

- 1.1 This chapter intends to provide guidelines to the Contractor or Subcontractor so that they can properly present their materials for inclusion in the construction project.
- 1.2 The Contractor shall follow the procedures listed below to ensure the proper inspection, sampling, testing, and certification of materials and products incorporated into all construction projects.
- 1.3 “Prequalification of Bidders” (Standard Specifications, Subsection 102.01) is synonymous with any reference to the CDOT “Pre-Qualification List”. A Prime Contractor requiring additional information regarding bidding can go to <https://www.codot.gov/business/bidding>.
- 1.4 The Qualified Manufacturers List (QML) is used for suppliers of Steel Reinforcing Bars & Steel Dowel Bars, Epoxy Coaters for Reinforcing Steel, and Precast Concrete Structures. These products are required to be selected off the QML. All relevant details for the proper submittal of specified Standard Manufactured Materials and Fabricated Structural Materials are found in CDOT’s Field Materials Manual under CP 11, Quality Management Plans for the Qualified Manufacturers List, or the Approved Products List.
- 1.5 E-Signature for CDOT Construction Project Guidelines.



Owner Acceptance Requirements for Electronic Records and Electronic Signatures Requirements

	Electronic Record (Preferred)		Paper Record	
	Electronic Signature		Original with Wet Signature	
	Type I Signature	Type II Signature	Scanned Record	
Definition	Law or regulation that dictates requirements Governed by the Bylaws and Rules of the Colorado State Board of Licensure for Architects, Professional Engineers, and Professional Land Surveyors or the Department of Personnel & Administration, Office of the State Controller Includes an attached digital authentication process that uses public key infrastructure or signature dynamics technology (encryption) Unique to the person, capable of verification, under the individual’s sole control, and linked so changes invalidate the electronic signature	Virtual fingerprint that is unique to a person or entity and used to identify the signer Certifications and Buy America Signatures shall include the signer’s name, date, and time the document was signed in addition to locking the document after signing	Scanned copy of an Original record or a copy of a record in PDF or another format	Document with a signature by a person who physically marks a document using a pen Copy Reproduction of the original paper record Scanned copy of an original paper record Printed copy of an electronic record (invalidates the electronic signature)
Record Type	Required on these electronic records: <ul style="list-style-type: none"> • Professional Engineer Seal • Professional Land Surveyor Seal • Change Orders • Notary • Agreements and Contracts with CDOT (including MOUs and MOAs) 	Any electronic record not requiring a Type I signature may use Type II signature	A paper record may be scanned and becomes a copy A scanned record that requires a Type I signature or an original wet signature becomes an electronic copy	Original Paper Records that include a P.E. Seal, P.L.S. Seal, Change Orders, and notarized signatures require an original wet signature. A copy or scanned copy of these records is not an acceptable Original Record
Software	A particular software is not specified for Type I signatures Examples of software that meets the requirements - DocuSign and AdobeSign Examples of software that DOES NOT meet requirements - Adobe DC Pro and Blue Beam	CDOT approved electronic signature software. Examples of software include Adobe DC Pro, Blue Beam, DocuSign, and Adobe Sign.	Electronic records with a Type I signature will contain only Type I electronic signatures. Do not mix Type I signatures with Type II signatures or wet signatures.	

Revised December 2022

2. PROVIDE NOTIFICATION OF MATERIALS SOURCES AND SUPPLIERS

- 2.1 Per Subsection 106.01 of the Standard Specifications: The Contractor shall submit a formal list of material sources and suppliers to the Engineer at least two weeks before delivery; however, it is preferable that the list be presented at the Pre-Construction Meeting. The Department will sample, and test materials proposed by the Contractor to be utilized for Items 203, 206, and 304. If the Department test results indicate the material is not in conformance with the project specifications, the Contractor is directed to Subsection 106.02 regarding Contractor Source materials and additional testing requirements.
- 2.2 The list shall include item to be supplied, quantity, a reference to the level of acceptance required by CDOT (per Section 7, Designated Products and Assemblies), company's name and address manufacturing the material or product, and contact person (if the material is to be pre-inspected or if a problem exists with the material delivered). The submitted list shall indicate, immediately after the item being referenced, the applicable acceptance level required:
- (A) Pre-Inspection (PI)
 - (B) Certified Test Report (CTR)
 - (C) Certificate of Compliance (COC)
 - (D) Pre-Approved (per APL &/or QML)
- 2.3 All required product or material documentation shall be provided at the point and time of delivery to the construction project. Failure to provide the required documents, such as CTRs and COCs, may result in the rejection of the materials. Failure to utilize the QML or APL may result in the rejection of the materials.

3. INNOVATIVE CONTRACTING (DESIGN / BUILD PROJECTS, CM/GC PROJECTS, ETC.) - MATERIALS DOCUMENTATION RECORD, CDOT FORM #250

- 3.1 Two weeks before construction of any element of work the Contractor shall furnish the Engineer a schedule of items, approximate quantities to be incorporated into the project, and a reference to the method of acceptance required by CDOT (per Section 7, Designated Products and Assemblies). This information is to include the item of work with its placement location and dates. The Contractor shall immediately notify the Engineer, in writing, if the items of work or quantities are revised.
4. At the completion of the project when IC/QC is utilized the Contractor shall furnish the Engineer with a completed CDOT Form 250 either created before the start of the project or at the end of the project by the Materials Documentation Unit - Materials Documentation Record listing items utilized to construct the project and the approximate quantity of each item. BUY AMERICA REQUIREMENTS FOR STEEL OR IRON PRODUCTS
- 4.1 All manufacturing processes, including the application of a coating, for all steel and iron products permanently incorporated in the work shall have occurred in the United States of America.

All manufacturing processes include the processes that change the raw ore or scrap metal into a finished steel or iron product. Manufacturing begins with the initial melting and mixing and continues through the coating stage. Any process which modifies the chemical content, the physical size or shape, or the final finish is considered a manufacturing process. Use of pig iron and processed, pelletized, and reduced iron ore manufactured outside of the United States is currently permitted to be used in the domestic manufacturing process for steel and iron per a nationwide waiver by FHWA which was granted on March 24, 1995 (FR Doc No: 95-7362).

- 4.1.1 Examples of products that are subject to Buy America requirements include, but are not limited to, the following:
- steel or iron products used in pavements, bridges, tunnels, or other structures, which include, but are not limited to, the following: fabricated structural steel, reinforcing steel, piling, high strength bolts, anchor bolts, dowel bars, permanently incorporated sheet piling, bridge bearings, cable wire/strand, pre-stressing / post-tensioning wire, motor/machinery brakes and other equipment for moveable structures.
 - guardrail, guardrail posts, end sections, terminals, cable guardrail.
 - steel fencing material, fence posts.
 - steel or iron pipe, conduit, grates, manhole covers, risers.
 - mast arms, poles, standards, trusses, or supporting structural members for signs, luminaires, or traffic control systems; and
 - steel or iron components of precast concrete products, such as reinforcing steel, wire mesh, and pre-stressing or post-tensioning strands or cables.
- 4.1.2 Examples of products that are exempt from Buy America requirements include, but are not limited to, the following:
- cabinets, covers, shelves.
 - clamps, fittings, sleeves.
 - washers, bolts, nuts, screws.
 - tie wire, spacers; chairs.
 - lifting hooks.
 - faucets; and
 - door hinges.
- 4.2 Buy America will not prevent a minimal use of foreign steel or iron provided the total project delivery cost of all such steel and iron which includes the cost of delivering the steel and iron to the project, does not exceed one-tenth of one percent (0.1%) of the total contract cost or \$2,500, whichever is greater.4.3 The Prime Contractor shall obtain and maintain on file Buy America certifications that every process from either the original smelting or melting operation, including the application of a coating, performed on steel or iron products either has or has not been carried out in the United States of America. These Buy America certifications apply to every steel and iron product that requires pre-inspection, pretesting, certified test results, or a certificate of compliance. Shipping invoices, bar lists, and mill test reports shall accompany the Buy America certifications.

Per CDOT Standards and Specification Section 106.11(c) Steel or Iron Products, before permanent incorporation of any steel or iron product into the project (domestic or foreign), the Prime Contractor shall obtain such a certification from each supplier, distributor, fabricator, and manufacturer that has handled each steel or iron product. These certifications shall create a chain of custody trail that includes every supplier, distributor, fabricator, and manufacturer that handles the steel or iron product and shall include certified mill test reports with heat numbers from either the original smelting or melting operation. Prior to the permanent incorporation or payment for the steel or iron products, the Prime Contractor shall also provide a copy of these certifications to the Project Engineer. The Prime Contractor shall allow the State, FHWA, and their representatives access to the Buy America certifications including supporting documentation upon request. The lack of these certifications will be justification for rejection of the steel or iron product.

Before the permanent incorporation into the project and before payment for steel or iron products, the Prime Contractor shall also provide the following for every iron or steel product that is delivered:

- *Prime Contractor Compliance Certification.* The compliance certification document shall certify in writing that the Prime Contractor has received and reviewed the Buy America certifications and supplied them to the Project Engineer; the certification(s) and supporting documentation is on file and complies with the Buy America requirements; and when requested, the Prime Contractor has submitted the required documentation to FHWA or other CDOT representatives.
- *Monthly Summary of Buy America Certifications.* The Prime Contractor shall also maintain a document that summarizes the date and quantity of all steel and iron material delivered to the project. This summary document shall include the pay item, quantity of material delivered to the project, delivered cost of the pay item, and the quantity of material installed by the monthly progress payment cutoff date. The summary document shall reconcile the pay item for the material delivered to the project to the Buy America certifications. The summary document shall also include the delivered cost of all foreign steel or iron delivered and permanently incorporated into the project, if applicable. The Prime Contractor shall also submit a summary document for each month that no steel or iron products are incorporated into or delivered to the project. The Prime Contractor shall submit the summary document to the Engineer by the monthly progress payment cutoff date.

Note 1: CDOT Standards and Specifications Subsection 106.11(c) Steel or Iron Products, contains specific information on Buy America Requirements. Additionally, the Buy America webpage contains links to resources such as the Buy America for Steel and Iron [TETP eLearning course](#).

The Buy America webpage can be found at the following link:

<https://www.codot.gov/business/designsupport/buy-america-requirements>

5. MANUFACTURED PRODUCTS

The FHWA's 1983 Buy America Final Rule, waives the application of Build America, Buy America to manufactured products that do not include steel and iron components.

(see <https://www.fhwa.dot.gov/programadmin/contracts/112583.cfm>).

However, Buy America requirements apply to steel or iron in components of manufactured products (i.e. steel wire mesh or steel reinforcing components of precast reinforced concrete products).

The Contractor shall obtain and supply to the Project Engineer upon delivery, a certification from the supplier of each manufactured product that the iron/steel used in the manufactured product has been produced in the United States.

6. BUY AMERICA REQUIREMENTS FOR CONSTRUCTION MATERIALS (excludes Iron and Steel)

Build America, Buy America (BABA) requirements apply to the following construction materials incorporated into infrastructure projects. Each listed construction material is followed by material-specific manufacturing process criteria that is necessary to be considered “produced in the United States”.

6.1 Eligible Construction Materials

- *Non-ferrous metals.* All manufacturing processes, from initial smelting or melting through final shaping, coating, and assembly, occurred in the United States.
- *Plastic and polymer-based products (including polyvinyl chloride - PVC), composite building materials, and polymers used in fiber optic cables).* All manufacturing processes, from initial combination of constituent plastic or polymer-based inputs, or, where applicable, constituent composite materials, until the item is in its final form, occurred in the United States.
- *Glass (including optic glass).* All manufacturing processes, from initial batching and melting of raw materials through annealing, cooling, and cutting, occurred in the United States. See section 106.11(d) of the CDOT Specifications for additional requirements related to glass beads for pavement marking.
- *Fiber optic cable (including drop cable).* All manufacturing processes, from the initial ribboning (if applicable), through buffering, fiber stranding and jacketing, occurred in the United States. All manufacturing processes also include the standards for glass and optical fiber, but not for non-ferrous metals, plastic and polymer-based products, or any others.
- *Optical fiber.* All manufacturing processes, from the initial preform fabrication stage through the completion of the draw, occurred in the United States.
- *Lumber.* All manufacturing processes, from initial debarking through treatment and planing, occurred in the United States.
- *Engineered wood.* All manufacturing processes from the initial combination of constituent materials until the wood product is in its final form, occurred in the United States; and
- *Drywall.* All manufacturing processes, from initial blending of mined or synthetic gypsum plaster and additives through cutting and drying of sandwiched panels, occurred in the United States.

6.1.1 An article, material, or supply incorporated into an infrastructure project must meet the Buy America Preference for only the single category (steel and iron, manufactured products, or construction materials) in which it is classified.

Items that consist of two or more of the listed materials that have been combined 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. For example, a plastic framed sliding window should be treated as a manufactured product while plate glass should be treated as a construction material.

Note 2: Raw materials classified as Section 70917(c) materials per the Standard Specifications, such as cement and cementitious materials; aggregates such as stone, sand, or gravel; or aggregate binding agents or additives are not subject to Build America, Buy America requirements.

Examples of construction materials that are subject to Build America, Buy America requirements include, but are not limited to, the following:

- Non-ferrous metals:
 - Aluminum railing
 - Aluminum pipe
 - Aluminum end sections
 - Aluminum posts
 - Aluminum light standards
 - Aluminum signs (if no reflective coatings or paint are used)
 - Aluminum mast arms
 - Aluminum structural plate + components
 - Electrical systems
 - Controller cabinets (cabinet only)
 - Electrical conductors
 - Copper pipe
 - Copper wire
 - Metal landscape border
 - Earth/soil anchors
 - Metal conduits
 - Drains/valves
- Plastics and polymers
 - Plastic pipe (including PVC)
 - Expansion joint materials
 - Geogrids
 - Geotextiles
 - Plastic fence posts
 - Plastic delineator posts
 - Gaskets
 - Plastic conduits
 - Plastic fences
 - Median cover material plastic sheeting
 - Prestressing duct enclosures
 - Plastic fittings
 - Plastic valves
 - Water stops/Sealing materials.
 - Culvert linings
 - Slip linings.
 - Paints/coatings

- Timber
 - Wood railing
 - Wood fence posts
 - Wood guardrail post
 - Wood fence
 - Wood noise barrier
 - Timber decks.
 - Timber light standard.
 - Timber signposts.
 - Wood stakes for landscaping and erosion control (if permanent)
 - Cattle guard components
 - Timber barricades.
- Glass
 - Optic glass
 - Lighting (if only one part is placed, i.e., the glass cover)
- Fiber Optic Cable

6.1.2 Before the permanent incorporation into the project and before payment for all eligible construction materials, the Prime Contractor shall obtain a certification from each supplier, distributor, fabricator, and manufacturer that has handled the construction material and submit it to the Project Engineer. This certification shall identify that every material-specific manufacturing process as listed in Section 6.1 of this section either has or has not been carried out in the United States of America and shall attest specifically to Build America, Buy America compliance.

In the case that eligible construction materials are permanently incorporated into the project, the Prime Contractor shall maintain and submit on a monthly basis, a new CDOT Form #1600, Prime Contractor's Certificate of Compliance summarizing the Item Description, CDOT Bid Item Number, Manufacturer Name, Date, and Quantity delivered, Bid Item Unit, Bid Item Unit Cost, and total cost of all eligible construction materials, manufactured products, and iron or steel. The completed Form #1600(s) shall be kept in the project files and shall be submitted as part of the material final documentation package.

In the case that no eligible construction materials are permanently incorporated into the project, the Prime Contractor shall maintain and submit on a monthly basis, a new CDOT Form #1610, Non-Applicable Projects: Build America, Buy America (BABA), certifying that no construction materials subject to Build America, Buy America requirements as defined in this section will be permanently incorporated into the project. The completed Form #1610(s) shall be kept in the project files and shall be submitted as part of the material final documentation package.

Form #1600 or Form #1610 does not relieve the Prime Contractor of providing the necessary Build America, Buy America supplier certifications prior to permanent incorporation into the project or before payment for the material. The Prime Contractor shall allow the State, FHWA, and their representatives access to the Buy America and Build America, Buy America certifications and supporting documentation upon request. The lack of these certifications will be justification for rejection of the construction material.

The CDOT Forms 1600 and 1610 Prime Contractor's Certificate of Compliance (COC) can be downloaded from the following link:

<https://www.codot.gov/business/designsupport/buy-america-requirements>

Form #1600 and Form #1610 Details:

- Page 1 shall be used to track all construction materials delivered for the month that are compliant with section 106.11 of the standard specifications.
- Page 2 shall be used to track all manufactured products delivered for the month that are compliant with section 106.11 of the standard specifications.
- Page 3 shall be used to track all iron or steel products delivered for the month that are compliant with section 106.11 of the standard specifications. Note that both a bid item cost and an as delivered cost are fields for steel and iron products. NOTE: Bid item cost is required to be reported on the form for the BABA de minimis allowance. Delivered cost is not required to be reported on Form 1600; if reported, Form 1600 may be used as the contractor's monthly summary for iron and steel.
- Page 4 shall be used to track all construction materials and manufactured products delivered for the month that are not compliant with section 106.11 of the standard specifications.
- Page 5 shall be used to summarize the information in Tables 1 – 4. The de minimis allowance for foreign construction materials and manufactured products shall not be exceeded in any given month.

Cost shall be defined as the cost of the bid item.

Form #1600 shall be maintained and submitted on a monthly basis and shall list all materials delivered in that month.

Form #1600 and Form #1610 are not required when the SSP "Revision of Sections 101 and 106 Buy America and Build America, Buy America Requirements for Projects Containing Federal-Aid Highway Funding in the Amount Less Than \$500,000" is included.

Example of the CDOT Form 1600 Buy America Contractors COC for Construction Materials and Manufactured Products Page 1 of 5.

Colorado Department of Transportation
 Prime Contractor's Certification of Compliance for Construction Materials and Manufactured Products
 For Compliance with the "Infrastructure and Investment Jobs Act" and CDOT Specification "Revision of Sections 101 and 106 - Buy America (BA) and Build America, Buy America (BABA) Requirements"

Contract ID	12345
Prime Contractor	ABC Construction
Project Location	I-70 & Quebec

Project Number	NCHPP 123-456
Date	12/25/2023
Month	December

Table 1 - All BABA Compliant Construction Materials Delivered for the Month

Item Description	Bid Item Number	Unit	Bid Item Unit Cost	Manufacturer Name	Date Delivered	Quantity Delivered	Total Cost (\$)
4" Ductile Iron Pipe	603-81004	LF	\$65.00	CO Pipe Co.	12/2/2023	347	\$22,555.00
Joint & Crack Sealant	408-01000	TON	\$3,000.00	Sealant Inc.	12/2/2023	19	\$57,000.00
15" Plastic Pipe	603-50015	LF	\$500.00	CO Pipe Co.	12/6/2023	114	\$57,000.00
Fence, Wood (72")	607-11600	LF	\$225.00	Rocky Construction	12/11/2023	200	\$45,000.00
							\$0.00
							\$0.00
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							\$0.00
							\$0.00
							\$0.00
Total						680	\$181,555.00

Example of the CDOT Form 1600 Buy America Contractors COC for Construction Materials and Manufactured Products Page 2 of 5.

Colorado Department of Transportation
Prime Contractor's Certification of Compliance for Construction Materials and Manufactured Products
For Compliance with the "Infrastructure and Investment Jobs Act" and CDOT Specification "Revision of Sections 101 and 106 - Buy America (BA) and Build America, Buy America (BABA) Requirements"

Table with 2 columns: Field Name, Value. Rows include Contract ID (12345), Prime Contractor (ABC Construction), Project Location (I-70 & Quebec).

Table with 2 columns: Field Name, Value. Rows include Project Number (NCHPP 123-456), Date (12/25/2023), Month (December).

Table 2 - All Manufactured Products Delivered for the Month

Main data table with 8 columns: Item Description, Bid Item Number, Unit, Bid Item Unit Cost, Manufacturer Name, Date Delivered, Quantity Delivered, Total Cost (\$). Includes one row for Panelboard and a Total row.

Example of the CDOT Form 1600 Buy America Contractors COC for Construction Materials and Manufactured Products Page 3 of 5.

Colorado Department of Transportation
 Prime Contractor's Certification of Compliance for Construction Materials and Manufactured Products
 For Compliance with the "Infrastructure and Investment Jobs Act" and CDOT Specification "Revision of Sections 101 and 106 - Buy America (BA) and Build America, Buy America (BABA) Requirements"

Contract ID	12345
Prime Contractor	ABC Construction
Project Location	I-70 & Quebec

Project Number	NCHPP 123-456
Date	12/25/2023
Month	December

Table 3 - All Iron or Steel Delivered for the Month

Item Description	Bid Item Number	Unit	Bid Item Unit Cost	Manufacturer Name	Date Delivered	Quantity Delivered	Delivered Cost	Total Bid Item Cost (\$)
Wire Mesh Facing	504-05000	SF	\$23.00	Steelworks	12/15/2023	4565	\$100,000.00	\$104,995.00
Reinforcing Steel	602-00000	LB	\$4.00	Steelworks	12/15/2023	110880	\$415,000.00	\$443,520.00
								\$0.00
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								\$0.00
Total						115445	\$515,000.00	\$548,515.00

Example of the CDOT Form 1600 Buy America Contractors COC for Construction Materials and Manufactured Products Page 5 of 5.

Colorado Department of Transportation
 Prime Contractor's Certification of Compliance for Construction Materials and Manufactured Products
 For Compliance with the "Infrastructure and Investment Jobs Act" and CDOT Specification "Revision of Sections 101 and 106 - Buy America (BA) and Build America, Buy America (BABA) Requirements"

Contract ID	12345
Prime Contractor	ABC Construction
Project Location	I-70 & Quebec

Project Number	NCHPP 123-456
Date	12/25/2023
Month	December

Table 5 - Summary of BA/BABA Materials Delivered or Installed for the Month for De Minimis Calculation

Table 1 - All BABA Compliant Construction Materials Delivered for the Month	Table 2 - All Manufactured Products Delivered for the Month	Table 3 - All Iron or Steel Delivered for the Month	Table 4 - All BABA NON-Compliant Construction Materials Delivered for the Month	Total Applicable Project Costs	5% Applicable BABA Costs
\$181,555.00	\$56,000.00	\$548,515.00	\$3,000.00	\$789,070.00	\$39,453.50

It is important to note that the Form 1600 will provide an accounting of any non-compliant construction materials on a monthly basis only. Per the Revision of Section 106.11(i), the De Minimis allowance for foreign construction materials is up to five percent of the total applicable project costs, or \$1,000,000, whichever is greater. The Contractor should track the monthly totals of non-compliant construction materials over the duration of the construction to ensure that the \$1,000,000 limit is not exceeded on the project and reviewed by the CDOT Project personnel.

Example of the CDOT Form 1610 Buy America NON-APPLICABLE Projects: Build America, Buy America (BABA) Construction Materials and Manufactured Products Page 1

COLORADO DEPARTMENT OF TRANSPORTATION
NON-APPLICABLE PROJECTS: BUILD AMERICA, BUY AMERICA (BABA)
 FOR CLARIFICATION OF THE "INFRASTRUCTURE AND INVESTMENT JOBS ACT" AND CDOT SPECIFICATION
 "REVISION OF 106.11 – BUY AMERICA AND BUILD AMERICA, BUY AMERICA REQUIREMENTS"

CONTRACT ID	12345	PROJECT NUMBER	NCHPP 123-456	PAGE 1 OF 1
PROJECT LOCATION	SH XX and Colorado Blvd.			
CONTRACTOR NAME	Kryptonite Construction	DATE	December 2023	

CONTRACTOR CERTIFICATION:

I CERTIFY UNDER PENALTY OF PERJURY IN THE SECOND DEGREE AND ANY OTHER APPLICABLE STATE OR FEDERAL LAWS, THAT FOR THIS MONTH THE ABOVE REFERENCED PROJECT IS NOT SUBJECT TO THE REQUIREMENTS OF THE INFRASTRUCTURE AND INVESTMENT JOBS ACT AS IT DOES NOT PERMANENTLY INCORPORATE CONSTRUCTION MATERIALS SUBJECT TO THE DOMESTIC CONTENT PROCUREMENT PREFERENCE AS DEFINED BY CDOT SPECIFICATION REVISION OF 106.11 – BUY AMERICA AND BUILD AMERICA, BUY AMERICA REQUIREMENTS.

I FURTHER CERTIFY THAT ALL SUPPORTING DOCUMENTATION IS ON FILE AND WILL BE MAINTAINED FOR A PERIOD OF THREE YEARS AFTER PROJECT COMPLETION.

CONTRACTOR REPRESENTATIVE SIGNATURE:	<i>Hailey Goodale</i>	DATE	12/19/2023
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REMARKS:

A copy of Form 1610 for the month of December will be placed in the project files.

6.2 BUY AMERICA AND BUILD AMERICA, BUY AMERICA WAIVERS

6.2.1 Waivers for Buy America and Build America, Buy America requirements may be considered by the Federal Highway Administration. Waivers are not and cannot be issued or approved by CDOT. Per Section 70914(c) of the Build America, Buy America Act, the head of a Federal agency may waive the application of a Buy America preference under an infrastructure program in any case in which the head of the Federal agency finds that:

- a. applying the domestic content procurement preference would be inconsistent with the public interest (a “public interest waiver”);
- b. types of iron, steel, manufactured products, or construction materials are not produced in the United States in sufficient and reasonably available quantities or of a satisfactory quality (a “nonavailability waiver”); or
- c. the inclusion of iron, steel, manufactured products, or construction materials produced in the United States will increase the cost of the overall project by more than 25 percent (an “unreasonable cost waiver”).

6.2.2 Federal agencies are responsible for processing and approving all waivers, including waivers requested by recipients and on behalf of subrecipients. Federal agencies may reject or grant waivers in whole or in part. To the greatest extent practicable, waivers should be targeted to specific products and projects.

Before issuing a waiver, the head of the Federal agency must make publicly available on the agency’s website a detailed written explanation for the proposed determination to issue the waiver and provide at least 15 days for public comment on the proposed waiver. General applicability waivers are subject to a minimum 30-day public comment period. Federal agencies must submit to MIAO (Made in America Office) a proposed waiver for review after the public comment period has concluded. MIAO will review the proposed waiver to determine if it is consistent with applicable law and policy and will notify the Federal agency of its determination. A summary of the Made in America Waiver process can be accessed here:

<https://www.fhwa.dot.gov/construction/contracts/waivers.cfm>

All waiver requests must include a detailed justification for the use of goods, products, or materials mined, produced, or manufactured outside the United States, a certification that there was a good faith effort to solicit bids for domestic products supported by terms included in requests for proposals, contracts, and nonproprietary communications with potential suppliers. Each proposed waiver submitted to MIAO should include the following information, as applicable:

- Waiver type (nonavailability, unreasonable cost, or public interest)
- Recipient name and Unique Entity Identifier (UEI)
- Federal awarding agency organizational information (e.g., Common Government wide Accounting Classification (CGAC) Agency Code)
- Financial assistance listing name and number.
- Federal financial assistance program name
- Federal Award Identification Number (FAIN) (if available)
- Federal financial assistance funding amount
- Total cost of infrastructure expenditures, including all Federal and non-Federal funds (to the extent known)
- Infrastructure project description and location (to the extent known)
- List of iron or steel item(s), manufactured products, and construction material(s) proposed to be exempt from Buy America requirements, including name, cost, country(ies) of origin (if known), and relevant PSC and NAICS code for each.

- A certification that the Federal official or assistance recipient made a good faith effort to solicit bids for domestic products supported by terms included in requests for proposals, contracts, and nonproprietary communications with the prime contractor.
- A statement of waiver justification, including a description of efforts made (e.g., market research, industry outreach), by the Federal awarding agency and, and in the case of a project or award specific waiver, by the recipient, in an attempt to avoid the need for a waiver. Such a justification may cite, if applicable, the absence of any Buy America-compliant bids received in response to a solicitation.
- Anticipated impact if no waiver is issued.
- Any relevant comments received through the public comment period.

Federal agencies will use the following principles before issuing a waiver of any type:

- **Time-limited:** A Federal agency may determine a waiver should be constrained principally by a length of time, rather than by the specific projects to which it applies. Waivers of this type may be appropriate, for example, when an item that is “not available”. When issuing such a waiver, the agency should identify a short, definite time frame (e.g., no more than one to two years) designed to ensure that, as domestic supply becomes available, domestic producers will have prompt access to the market created by the program.
- **Targeted:** Waivers that are not limited to particular projects should apply only to the item(s), product(s), or material(s) or category(ies) of item(s), product(s), or material(s) necessary.
- **Conditional:** Federal agencies may issue waivers with specific conditions that support the policies of the Act and the Executive Order. These principles and criteria should be viewed as minimum requirements for the use of waivers by Federal agencies.
- **Nonavailability Waivers** Before granting a nonavailability waiver, agencies will consider whether the recipient has performed thorough market research, and adequately considered, qualifying alternate items, products, or materials. Waivers will describe the market research activities and methods to identify domestically manufactured items capable of satisfying the requirement, including the timing of the research and conclusions reached on the availability of sources.
- **Unreasonable Cost Waivers** An unreasonable cost waiver is available if the inclusion of iron, steel, manufactured products, or construction materials produced in the United States will increase the cost of the overall project by more than 25 percent. The recipient must provide adequate documentation that no domestic alternatives are available within this cost parameter. For requests citing unreasonable cost as the statutory basis of the waiver, the waiver justification must include a comparison of the cost of the domestic product to the cost of the foreign product or a comparison of the overall cost of the project with domestic products to the overall cost of the project with foreign-origin products, pursuant to the requirements of the applicable Made in America law.
- **Public Interest Waivers** A waiver in the public interest may occur if a federal agency determines that other important policy goals cannot be achieved consistent with the Buy America requirements established by the Act and the proposed waiver would not meet the requirements for a nonavailability or unreasonable cost waiver. Such waivers will be used judiciously and construed to ensure the maximum utilization of goods, products, and materials produced in the United States. Determination of public interest waivers shall be made by the head of the agency with the authority over the Federal financial assistance award. Before granting a waiver in the public interest, federal agencies shall assess whether a significant portion of any cost advantage of a foreign-sourced product is the result of the use of dumped steel, iron, or manufactured products or the use of injuriously subsidized steel, iron, or manufactured products. Agencies may consult with the International Trade Administration (ITA) in making this assessment if the granting agency deems such consultation to be helpful. The agency shall integrate any findings from the assessment into its waiver determination as appropriate.

6.2.3 If a Contractor desires to pursue a waiver they shall notify the CDOT Project Engineer who will then submit it to the CDOT Materials & Geotechnical Services Unit, Pavement Design and Documentation Services Program at the following email address: CDOT_BuyAmerica@state.co.us. The Pavement Design and Documentation Services Program will review it and forward it to the FHWA Division Office for consideration. See Project Level Waivers in Section 106.11 of the specifications for additional information related to the waiver process and Contractual obligations, delays, and claims.

6.3 GLASS BEADS for PAVEMENT MARKING

All post-consumer(recycled) and industrial produced glass beads for pavement marking shall have been manufactured or recycled from North American glass waste streams in the United States of America. The bead manufacturer/supplier shall submit a Certificate of Compliance (COC) in accordance with CDOT Standard Specifications Subsection 106.12 confirming that North American glass waste streams in the United States of America were used in the manufacture of the glass beads, and a Certified Test Report (CTR) for Glass Beads per CDOT Standard Specifications, Section 713.08, and Table 713-2.

7. QUALITY MANAGEMENT PLANS FOR THE QUALIFIED MANUFACTURERS LIST OR THE APPROVED PRODUCTS LIST

7.1 CP 11 specifies requirements and procedures for a certification system that shall apply to all referenced manufacturers, as well as suppliers and contractors within certain industries. Certifying a Manufacturer's Quality Management Plan is not an automatic acceptance of any product, but an acknowledgment that the Manufacturer has taken steps to ensure that their quality controls meet the applicable Industry standards. Manufacturers whose Quality Management Plans are acceptable will be placed on the Qualified Manufacturers List (QML). Only Manufacturers listed on the QML will be eligible to provide the referenced products to a CDOT project.

7.2 The following Standard Manufactured Materials as referenced in CP 11 require the annual submission of a Quality Systems Manual (QSM) along with a copy of the CDOT Form 595 and sample for evaluation. An annual Certification Letter will be distributed to the Producer Suppliers with instructions. The Materials and Geotechnical Branch/ Asphalt Program maintains the QSM for the Sub-Part 1, Asphalt Binder, and the Sub Part 2, Asphalt Emulsion. Contact them at: vincent.battista@state.co.us or 303-398-6576.

- Part I, Standard Manufactured Materials
 - Sub-Part 1. Asphalt Binder
 - Sub-Part 2. Asphalt Emulsion

7.3 For the Sub-Part 3,4, and 5 the following Standard Manufactured Materials as referenced in CP 11 require the annual submission of a Quality Systems Manual (QSM) along with a copy of the CDOT Form 595. Samples for evaluation will be sent only when requested from the Concrete program. the QSM will be managed by: eric.prieve@state.co.us or 303-398-6542.

- Part I, Standard Manufactured Materials
 - Sub-Part 3. Hydraulic Cement
 - Sub-Part 4. Fly Ash
 - Sub-Part 5. Hydrated Lime

All products in Section 7.2 and 7.3 are evaluated and approved and will be added to the CDOT Approved Products List (APL). <https://apps.coloradodot.info/apl/AplSearch.cfm>

- 7.4 The following Fabricated Structural Materials as referenced in CP 11 are listed in the Qualified Manufacturers List (QML).
- Part II, Fabricated Structural Materials
 - Sub-Part 1. Steel Reinforcing Bars & Steel Dowel Bars.
Subject Matter Expert: eric.prieve@state.co.us or 303-398- 6542
<https://www.codot.gov/content/apl/SteelReinforcingBarsAndSteelDowelBars.pdf>
 - Sub-Part 2. Epoxy Coaters of Reinforcing Steel require the annual submission of a Quality Systems Manual (QSM) for review and approval.
Subject Matter Expert: melody.perkins@state.co.us or 303-398- 6562
<https://www.codot.gov/content/apl/EpoxyCoatingForReinforcingSteel.pdf>
 - Sub-Part 3. Precast Conc. Structures require the annual submission of a Quality Systems Manual (QSM) for review and approval.
Subject Matter Expert: Hailey.goodale@state.co.us or 303-398- 6562
<https://www.codot.gov/content/apl/PrecastConcreteStructures.pdf>

The QML is located within CDOT's Approved Products List (APL) website, at:
<https://www.codot.gov/business/apl/qualified-manufacturers-list.html>.

A Notice to Manufacturers handbook is located within the same website that references specific evaluation protocols including AASHTO Product Evaluation and Audit Solutions (Formally NTPEP).

The respective QML website pages are updated weekly or as changes or edits are needed the updated webpages could take up to 24 hours to apply. Verify the date of revision on the QML page.

8. DESIGNATED APPROVED PRODUCTS AND EQUIPMENT ASSEMBLIES

- 8.1 The majority of materials submitted for inclusion on CDOT projects will fall within one of four methods of product acceptance for their sampling and testing. CDOT always retains the right through its Owner Acceptance (OA) Program to obtain samples for additional testing and require supplemental documentation.
- 8.2 If the material or product is not referenced within the four methods referenced in Section 8.3a, 8.3b, 8.3c, and 8.3d of product acceptance then the materials or products must be fabricated or supplied per the requirements of the applicable Colorado Department of Transportation specifications, plans, and standards. An example of processed materials not found in the following four methods is Aggregate Base Course (ABC), Hot Mix Asphalt (HMA), and Portland Cement Concrete Pavement (PCCP). An example of a manufactured product treated uniquely is the Dynamic Message Signs (DMS) which are competitively bid on projects or through state awards.

THE following are the Four Methods of product approval.**8.3.a PRE-INSPECTION (PI):**

Pre-Inspection is when representatives from the Colorado Department of Transportation visit a manufacturer's facility to perform an initial review of the company's quality control plan and employee certifications, as well as subsequent inspection visitations during the manufacturing of the product. Inspection arrangements shall be made by contacting the CDOT Staff Bridge Fabrication and Construction Inspectors at: Mike.Bean@state.co.us (303) 757-6751 a minimum of 10 days before the beginning of fabrication. Failure to give notice will result in delays to the project and/or rejection of materials or products.

Bearing Devices and Expansion Devices are inspected randomly at the discretion of the Staff Bridge Fabrication Inspectors.

Products needing Pre-Inspection:

- Bearing Devices (Type III) - Bridge^A
- Expansion Device, Modular - Bridge^A (0-6", through, 0-24")
- Pre-stressed Concrete Units - Bridge^A
- Structural Steel - Bridge^A
- Precast Concrete Deck Panels - Bridge^A

^A - Staff Bridge Fabrication Inspectors

CDOT Form 193 is to be provided with the above-referenced products.

8.3.b CERTIFIED TEST REPORT (CTR):

The Certified Test Report method of acceptance is when a manufacturer is required to submit the actual test results performed on the material being provided. The word preceding the "Test Report" may vary between different industries, such as Certified, Mill, Metallurgical, Laboratory; however, they are all considered equivalent. The CTR shall contain the actual results of tests for the chemical analysis, heat treatment, and/or mechanical properties per the drawing and/or specification for the specific batch or lot of material delivered to the project. The contract will designate products and assemblies that can be incorporated in the work if accompanied by Certified Test Reports.

CTRs shall meet the requirements listed in the CDOT Standard Specifications, Subsection 106.13. The Contractor shall certify the manufacturer's CTR as required by Subsection 106.13.

A COC/CTR summary Cover letter has been approved for contractors using the same product for different Item numbers during construction. Submit the cover letter with the Contractors original or electronic signature to include the Corporate Title. (See example in this chapter).

Each product or assembly delivered to the project must contain the lot, heat, or batch number identical to that on the accompanying Certified Test Report. Products or assemblies furnished based on Certified Test Reports may be sampled and tested by the Department and if determined that the material does not meet the applicable specifications, the material will be rejected or accepted according to CDOT Standard Specifications, Subsection 105.03. (An example of what is required on a CTR is included in this chapter).

Products requiring Certified Test Report (below is an incomplete list):

- Bearing Devices (Type III) - Bridge^A
- Bridge Deck Forms, Permanent Steel ^A
- Cribbing, Steel
- Geogrid (or COC, per project specs)
- Glass Beads (for pavement marking)
- Mechanical Fasteners (Field) ^A
- Overhead Sign Structures ^A
- Pedestrian & Bikeway Railing
- Quicklime
- Soil Conditioner
- Structural Plate Structures
- Topsoil
- Traffic Signal Structures ^A
- Water, non-potable
- Welded Wire Reinforcement

8.3.c CERTIFICATE OF COMPLIANCE (COC):

The Certificate of Compliance method of acceptance is when a manufacturer is required to submit a document certifying that the material being provided meets all required Department specifications. A COC shall reference the required specifications for the chemical analysis, heat treatment, or mechanical properties per the drawing or specification, but not the actual test results. The contract will designate products and assemblies that can be incorporated in the work if accompanied by Certificates of Compliance.

COCs shall meet the requirements listed in the CDOT Standard Specifications, Subsection 106.12. The Contractor shall certify the manufacturer's CTR as required by Subsection 106.12.

A COC/CTR summary Cover letter has been approved for contractors using the same product for different Item numbers during construction. Submit the cover letter with the Contractor's original or electronic signature to include the Corporate Title. Follow the Standards and Specifications Section 105.08 for electronic signature requirements. (See example in this chapter)

Each product or assembly delivered to the project must contain the lot, heat, or batch number identical to that on the accompanying Certificate of Compliance. Products or assemblies furnished based on Certificates of Compliance may be sampled and tested by the Department and if determined that the material does not meet the applicable specifications, the material will be rejected or accepted according to CDOT Standard Specifications, Subsection 105.03. (An example of what is required on a COC is included in this chapter).

If the Plans do not specifically reference a Certified Test Report (Mill Test Report) and the product category is not listed on the Approved Products List within the Pre-Approved level of acceptance, then a COC will be required. The following documentation is required to be submitted along with the COC.

1. Mill Test Report
2. Certified Test Report(s) on components must accompany the material or product.

The contractor may obtain a current list of Weed Free Forage Crop Producers by contacting the Colorado Department of Agriculture at: [Colorado Department of Agriculture](#)

Products requiring Certificate of Compliance (below is an incomplete list):

- AEP (Asphalt Emulsion Prime)
- Aggregate Bag (for the bag, CTR for aggregate.)
- Bearing Devices (Type I, II ^{A B})
- Bridge Rail, Steel ^A
- Catch Basin Insert
- Cattle Guard Boxes, Pre-Cast
- Concrete Box Culverts, Precast
- Damp proofing, Asphalt
- Delineator Posts, Steel
- Ditch Control (Erosion Log & Silt Dike)
- Dust Palliative, Asphaltic or Magnesium Chloride
- Erosion Bales ^D
- Expansion Joint Material, Preform. Filler
- Fence (Wires & Posts)
- Fertilizer
- Flumes (all types) Gabions and Slope Mattress
- Gaskets
- Geogrid (for Erosion Control)
- Glass Beads (for PMM)

- Guard Rail - End Anchors
- Guard Rail Metal ^A
- Guard Rail Posts - Metal ^A
- Guard Rail – Precast
- Guard Rail Posts - Timber Blocks and Posts ^A
- Hay ^D
- Headgates
- Hydraulic Soil Stabilizers
- Inlets, Grates, and Frames (Prefab)
- Interior Insulation
- Irrigation Systems
- Lighting, all items
- Light Standards, High Mast
- Light Standards, Metal
- Luminaires (Inclusive)
- Manholes, Rings, and Covers (Prefab)
- MSE Wall - Elements ^{A,C}
- Mulch (Hydraulic or Dry Applied)
- Mulch Tackifier
- Pedestrian Bridge ^A
- Perimeter Control (Silt Fence)
- Piling ^A
- Pipes - all material compositions
- Rest Area Materials (construction of)
- Retaining Wall Blocks
- Seeding (Native), Seed ^C
- Sign Panels
- Sprinkler System(s)
- Steel Chairs
- Steel Signposts
- Steel Sheet Piling ^A
- Storm Drain Inlet Protection
- Straw ^D
- Structural Glazed Tile and Ceramic Tile
- Structural Plate Structures ^A
- Structural Steel Galvanized ^A
- Treated Timber
- Vegetation (Sod & Plants)
- Water, Potable
- Water Control Devices
- Water Lines
- Welded Wire Mesh

Examples of CTR stamps or affixed stickers to be placed on Certified Test Reports (CTRs) Electronic CTR (Stamp Instructions are located at the end of this chapter). As per CDOT PD 21.1 and CDOT PD 508.1

I hereby certify under penalty of perjury that the material listed in this Certified Test Report represents ____ (quantity and units) of pay item. _____

(Pay item # and description) that will be installed in conformance with the plans and specifications on Project Number _____.

Contractor Rep. Signature _____ Date _____

NOTE: The Electronic Stamp must be filled out prior to importing to document.

Examples of COC stamps or affixed COC stickers to be placed on Certificates of Compliance (COCs) Electronic COC Stamp instructions are located at the end of this chapter. As per CDOT PD 21.1 and CDOT PD 508.1.

I hereby certify under penalty of perjury that the material listed in this Certificate of Compliance represents ____ (quantity and units) of pay item

(Pay item # and description) that will be installed in conformance with the plans and specifications on Project Number _____.

Contractor Rep. Signature _____ Date _____

NOTE: The Electronic Stamp must be filled out prior to importing to document.

8.3.d PRE-APPROVED (APL):

The pre-approved method of acceptance is when a manufacturer is required to submit all relevant documentation on their product in advance of any specific project. A primary requirement to be considered for the Approved Products List (APL) is that the material retains a very high level of uniformity and consistency in its production quality (i.e., not project-specific).

The submittal of Product literature /Tech Data Sheet (TDS), Certificates of Compliance, Certified Test Reports, Materials Safety Data Sheets (MSDS), etc., as well as product samples for specific categories, combine all previous methods of acceptance into one. A manufacturer whose product is not currently on the APL should read and follow the instructions within the Notice to Manufacturers on the APL website at <https://www.codot.gov/business/apl>

Product evaluations can take a minimum of four months to over two years for some product categories. If CDOT specifications need to be altered or created for a product's acceptance, then it could take even longer.

Per CDOT's Procedural Directive 1401.1, a manufacturer's product is evaluated within CDOT to determine its acceptability on CDOT construction projects, as defined by CDOT specifications, plans, and standards. For additional information on the APL or the website contact the Product Evaluation Coordinator within the Staff Materials & Geotechnical Branch at: edward.trujillo@state.co.us or 303-398-6566.

Locate products on the website at: <https://www.codot.gov/business/apl> then go to APL search, and then use the referenced Category, the Manufacturer's name, or the Product name.

A "category / Sub-Category / Base-Category" search requires that the drop-down menus be used.

APL Quality Assurance Program: Upon selecting the sub-category or base category the Product Identification Number (PID), Product Name, Manufacturer, and Comments will be displayed.

- A. By clicking on the PID / CDOT Form 595 the Pre-Approved Product Evaluation Request & Summary will be displayed. This will provide the customer with both a mini product data sheet and the information necessary for additional product analysis for specific utilization.
- B. If a product fails to perform within minimum quality expectations contact the CDOT Product Evaluation Coordinator edward.trujillo@state.co.us or 303-304-3468, immediately via e-mail also listed on the APL website.

Example of the current CDOT Approved Products List Webpage.

Approved Products List Search Screen

Choose a field to search by:

- Category
- Manufacturer Name
- Product Name
- Product Number

Next >>

[APL Search](#) | [Back to Top](#)

Category

Approved Products List Search Screen

Search by Category

Instructions:

- Select a Category from the List/Menu
 - To select a Subcategory, ^{1st} you must select a Category
 - To select a Basecategory, ^{1st} you must select a Subcategory
 - To select all Categories, Click the Search button.

Category:

- (choose a category or click search)
- Adhesive
- Asphalt
- Bridge Structures
- Concrete
- Drainage
- Environmental
- Erosion Control
- Expired Specification
- Maintenance
- Paint / Coating
- Pedestrian Safety
- Right-of-Way Structure
- Roadway Safety
- Sealant (Joint and Crack)
- Sediment / Pollution Control
- Soil / Geotechnical
- Steel
- Traffic Control
- Waterproofing

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Sub-Category

Approved Products List Search Screen

Search by Category

Selected Category: Concrete

- Select a Sub Category from the List/Menu
 - To select a Basecategory, ^{1st} you must select a Subcategory
 - To select all Sub Categories, Click the Search button.

Sub-category:

(choose a subcategory or click search)

- All Subcategories
- Admixture
- Cement
- Curing
- Experimental Features [Concrete]
- Fiber
- Grout
- Pozzolan
- Repair/Patching

[APL Search](#) | [Back to Top](#) | [Admin Access](#)

Base-Category

Approved Products List

Search by Category

[NewSearch](#) or [Search another Category](#)

Category Subcategory Base-category
 Concrete | Admixture | Air Entraining

Form	Product Name	Material Code	Manufacturers	Producer Supplier Code	Product Evaluator	Status
595	4114 Air Plus [95660] [Air Entraining]	711.02.01.00	Fritz-Pak Corporation	GEN100233	Eric Prieve	Accepted

Product Identifier (PID)

APL User Guidance

1. If three or more products are listed for any applicable category, then one of these products shall be selected. If the category is unpopulated a Certificate of Compliance (COC) will be required for the product used. If the category is under-populated, a COC will be required for the product used if not from the APL. CDOT's Subject Matter Expert (SME) for the applicable category shall be contacted for assistance. A Certified Test Report (CTR) may be requested if the Project Engineer deems it appropriate.
2. Contractors are required to submit a document entitled Contractor's APL Verification along with a copy of the CDOT Form 595 to the project engineer documenting the selection of the CDOT APL products that they wish to include for project incorporation. (Example included in this chapter.)

Contact the CDOT Product Evaluation Coordinator at: edward.trujillo@state.co.us or 303-304-3468 for a list of SMEs or assistance with any questions related to the Product Evaluation or approval process.

3. Products that are evaluated on a batch or lot basis and subsequently posted on the APL website will not be posted indefinitely. They expire two years after their CTR date, or they will be removed sooner if informed that the batch or lot is depleted. Specifically, this refers to (1) single component, hot-applied, elastomeric membranes for bridge decks, (2) hot poured, joint/crack sealant, and (3) asphalt plug joints. The Batch # or Lot # must be included in the CTR.
4. Asphalt Binder and Asphalt Emulsions: Approved asphalt binders and emulsions are valid for the calendar year, less than 2 years from which they were tested and approved, as per CP 11. The year is incorporated into the product name. On February 1st of each calendar year, all products from two previous years will be automatically removed. CDOT Asphalt SME: Vincent.battista@state.co.us 303-398-6576.
5. Environmental Erosion Control and Sediment / Pollution Control: All questions regarding this category's materials, both the current specifications and the products, should be directed to the CDOT Staff Environmental Branch SME: Landscape Architect 720-253-2936
6. Traffic Control Pavement Marking Material Sub-Category: All questions regarding pavement marking materials, both the current specifications and the products, should be directed the CDOT Staff Traffic Branch SME: esayas.butta@state.co.us
7. Geosynthetics and Geotextiles:
CDOT Materials and Geotechnical SME: david.thomas@state.co.us
[Geosynthetics and Geotextiles Materials Bulletin](#)- All geotextiles shall conform to AASHTO M 288; the tables in Subsection 712.08 of the Standard Specifications. The following have been deleted in the CDOT Standard Provision (SSP), *Revision of Sections 208, 420, 605, and 712 – Geosynthetics and Geotextiles*.
Only geotextiles on the New York DOT's Approved Products List (NY APL) may be used on CDOT projects. The web address for the NY APL is: [NY APL Geotextiles List](#)
Or follow the New York State website navigation process you can refer to (NYDOT APL Instructions) at www.dot.ny.gov/index?nd=nysdot

If a proposed geotextile product is not on the NY APL, the CDOT SME shall be contacted before use on a CDOT project.

8. Concrete Mix Designs:
The APL website <https://www.codot.gov/business/apl/concrete-mix-designs> contains a folder listing concrete mix designs that have been pre-approved. When a concrete mix is placed on the APL, it meets the most current CDOT Standard Specifications; however, it may not meet a CDOT project's Special Provisions. CP 62 is the procedure for approving all concrete mixes for use on a CDOT project. (Review FMM Chapter 600). Contact dot_concretemixdesigns@state.co.us for further information.
9. Warm Mix Asphalt (WMA) Mixes:
The APL website contains a folder listing approved WMA technologies and a folder listing approved contractors for specific WMA technologies that have been pre-approved for use on CDOT Projects. Use of a WMA mix on a Project shall be approved by the Project Engineer with the concurrence of the Region Materials Engineer. Warm Mix Asphalt SME: 303-398-6576.
<https://www.codot.gov/business/apl>
10. Adhesives are no longer listed in the APL. They will be used on a project-by-project approval basis only. Contact Staff Bridge Subject Matter Expert or the Product Evaluation Coordinator for further information: edward.trujillo@state.co.us
11. Maintenance\Alternate Traction Devices: House Bill 19-1207 CRS 42-4-106 (5)(a) (I) (F) 2 CCR 601-14 Rules Governing Chain Law and Passenger Vehicle Traction Law Requirements on the State Highways. Contact the Maintenance Staff Engineer for further information: james.fox@state.co.us
<https://www.sos.state.co.us/CCR/GenerateRulePdf.do?ruleVersionId=8590&fileName=2%20CCR%20601-14>
12. Sealant\Mastic\Black for Asphalt/ Grey for Concrete used for Bridge Construction will be on the CDOT APL for further information contact: edward.trujillo@state.co.us. The Maintenance requirement for the Sealant must meet the required ASTM D8260 specifications, for further information contact: james.fox@state.co.us.
13. Traffic Control\Reflective Element\Delineator Post Marker will not be listed in the APL Staff Traffic is moving to replace the product with the Flexible Post Reflector. The project can continue to purchase the Delineator Post Marker (Reflector) as a Project Special only. For further information contact: edward.trujillo@state.co.us or esayas.butta@state.co.us
14. Sound Barrier Wall: *Acceptance Method*: Project by Project approval only. The Contractor shall provide the Engineer with one copy of **Certified Test Reports (furnished by the supplier)** to validate the structural values required of the wall. Field-inspect and document on CDOT Form 157 that the material is acceptable, then retain all copies in the Project Files. Contact the Staff Bridge SME: [Andy Pott@state.co.us](mailto:Andy.Pott@state.co.us) for the structure requirements. Contact the Standards and Specifications SME David.kosmiski@state.co.us for the MASH 09 testing requirements. Contact the Air Quality and Noise Program Manager SME rose.waldman@state.co.us for the acoustic qualities' guidance.
15. Concrete\Grout\Post Tensioned: Project by Project approval only. This product is no longer on the CDOT Approved Products List. Contact Concrete Program Manager SME eric.prieve@state.co.us APL Category List.

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>
Adhesive:	Anchoring, Lateral:	Acrylic	Project Approval
		Cementitious	Project Approval
		Epoxy	Project Approval
		Polyester	
	Anchoring, overhead:	N/A	Project Approval
	Bonding:	Epoxy	Project Approval

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>
Asphalt:	Asphalt Release Agent:	Truck Bed Only	401.09.01.00
		Truck & Equipment	401.09.01.00
	Binder:	PG 58-28	702.01.01.01
		PG 58-34	702.01.01.02
		PG 64-22	702.01.01.03
		PG 64-28	702.01.01.04
		PG 70-28	702.01.01.05
		PG 76-28	702.01.01.06
		Emulsion:	CSS-1
	CSS-1h		702.03.19.00
	CRS-2		702.03.15.00
	CRS-2P		702.03.21.00
	CRS-2R		702.03.23.00
	CQS-1h		702.03.20.00
	HFMS-2		702.03.08.00
	HFMS-2s		702.03.10.00
	HFMS-2P		702.03.25.00
	HFMS-2sP		702.03.26.00
	HFMS-2h		702.03.09.00
	HFRS-2P		702.03.24.00
	SS-1		702.03.11.00
	SS-1h		702.03.12.00
	ARA-1P		702.04.02.00
	Hydrated Lime:	N/A	712.03.01.00
	Roadway Patching:	Pre-Mixed [Bagged]	401.02.01.00

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>
Bridge Structures	Geo-composite Drain	N/A	712.12.01.00
	Thin Bonded Overlay	Epoxy	Project Approval
		Non-Epoxy	Project Approval
	Structural Wrapping Repair	N/A	Project Approval

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>			
Concrete:	Admixture:	Admixture categories	711.02.01.00			
	Curing Compound:	Curing Compound Categories	711.01.01.00			
	Cement:		Portland Cement, ASTM C 150	701.01.01.00		
			Blended Cement, ASTM C 595	701.01.02.00		
			Blended Cement [Type IL] [MS]	701.01.02.06		
			Blended Cement [Type IL] [HS]	701.01.02.07		
			Blended Cement [Type IT] [MS]	701.01.02.08		
			Blended Cement [Type IT] [HS]	701.01.02.09		
			Slag Cement / Slag Grade 100	701.05.01.01		
			Slag Cement / Slag Grade 120	701.05.01.02		
			Pozzolan:		Fly Ash, Class C	701.02.01.00
					Fly Ash, Class F	701.02.02.00
			High Reactivity	701.02.04.00		
			Silica Fume	701.03.01.00		

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>	
Concrete:	Fiber:	Macro Fiber	709.04.02.00	
		Microfiber	709.04.02.00	
	Grout:		General Purpose [Non-Shrink]	601.02.14.00
			Post-Tensioned Cable	See Note 10
			PCCP Grout	618.09.00.00
	Concrete:	Region Approved	Plant Mix Grout	618.02.14.01
		Tie Bar Anchorage Repair/Patching:	PCCP Tie Bar Epoxy	412.13.00.00
			Rapid Set, Horizontal	601.09.01.00
			Rapid Set, Vertical & Overhead	601.09.01.00
			Bonding Agent	601.09.01.00
		Class DR [Pre-Packaged]	618.08.00.00	

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>
Drainage:	Culvert Pipe:	Culvert Lining [Repair]	707.12.01.00
		Open-Cut/Direct-Bury	712.13.02.00
	Manholes & Inlets:	Manhole Riser	604.04.01.00
		Trench Drain	712.14.01.00
		Plastic Drains	712.14.01.00

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>
Environmental:	Sound Wall:	Absorptive	See Note 9
		Reflective	See Note 9
Erosion Control:	Soil Retention Rolled:	SRB [Biodegradable Class 1]	216.02.02.00
		SRB [Photodegradable Class 1]	216.02.02.00
		SRB [Biodegradable Class 2]	216.02.02.00
		SRB [Photodegradable Class 2]	216.02.02.00
Erosion Control:	Soil Retention Rolled:	TRM [Class1]	216.02.03.00
		TRM [Class 2]	216.02.03.00
		TRM [Class 3]	216.02.03.00
		TRM [Class 4 / woven]	216.02.03.00
Erosion Control:	Ditch Control:	Silt Berm	208.02.02.00
Sediment/Pollution Ctrl:	Construction Inlet Protect.:	Storm Drain Inlet Protect. (Type 1)	208.02.08.01
		Storm Drain Inlet Protect. (Type 2)	208.02.08.01
		Storm Drain Inlet Protect. (Type 3)	208.02.08.01
Sediment/Pollution Ctrl:	Concrete Washout Structure:	Prefabricated [Above Ground]	208.02.14.00
Sediment/Pollution Ctrl:	Vehicle Tracking Control:	Prefabricated	208.02.15.01

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>
Maintenance	Deicing, Liquid	Magnesium Chloride (Cat. 1)	712.04.01.00
Maintenance	Deicing, Granular	Brining Salt, Dry, Std (Cat. 8A-B)	712.04.02.00
		Road Salt, Dry, Std (Cat. 8A-R)	712.04.02.00
		Wet Salt, Std (Cat. 8B)	712.04.02.00
		Brining Salt, Dry, Fine (Cat. 8C)	712.04.02.00
		Road Salt, Dry, Fine (Cat. 8C-R)	712.04.02.00
Maintenance	Inhibitor / Enhancer	Corrosion Inhib, NaCl (Cat. A-1)	712.04.02.01
		Corrosion Inhib, NaCl (Cat. A-3)	712.04.02.01
Maintenance	Alternate Traction Device	Chain	712.15.00.00
		Cable Chain	712.15.00.00

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>
Paint / Coating:	Anti-Graffiti:	N/A	708.02.01.00
	Concrete Corrosion Inhibitor:	N/A	708.08.01.00
	Epoxy Coating:		708.03.03.00
	N/A		
	Structural Concrete Coating:	N/A	708.08.01.00
	Structural Steel Paint:	N/A	708.03.02.00
	Wire Coating:	N/A	

Pedestrian Safety:	ADA Truncated Dome:	Embedded	608.02.03.00
		Retrofit	608.02.03.00
	Joint System	N/A	705.01.03.00

Right-of-Way Structure:	Mailbox Support System:	N/A	210.13.01.00
	Utility Enclosure:	N/A	604.04.02.00
	Fence, Non-Standard Coating	N/A	710.03.01.00
	Pole Base Hardware:	N/A	713.05.01.00

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>
Roadway Safety:	Cable Barrier:	MASH 2016 TL-3	606.02.06.00
		MASH 2016 TL-4	606.02.06.00
	Guardrail W-Beam:	Guardrail End Treatment	606.02.03.00
		Guardrail End Treat., Spec. App.	606.02.03.00
		Guardrail Synthetic Block-out	606.02.04.00
	Crash Cushion:	Sand Barrel Array	614.07.02.00
		Guardrail Median Terminal	606.02.02.00
		Barrier End Treatment (Terminal)	606.02.02.00
		Impact Attenuator, Std. Perm.	614.07.02.00
		Impact Attenuator, Wide, Perm.	614.07.02.00
		Impact Atten., Lo-Maint., Perm.	614.07.02.00
		Impact Atten., Spec-App, Perm.	614.07.02.00
Roadway Safety:	Railing	Pedestrian & Bicycle	514.05.01.00
		Vehicle	606.02.05.00

Sealant [Joint & Crack]:	Asphaltic Plug Joint:	N/A	518.03.01.00
	Hot Poured, Joint/Crack:	ASTM D 6690, Type II	702.06.01.00
		ASTM D 6690, Type IV	702.06.02.00
		ASTM D 5078	702.06.03.00
	Mastic:	Black for Asphalt	702.06.04.00
		Grey for Concrete	702.06.04.01

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>
Sealant [Joint & Crack]:	Silicone, Joint:	Non-Sag	705.01.01.00
		Self-Leveling	705.01.01.00
	Pre-Formed Joint Filler: Loop Detector Slot:	N/A	705.01.02.00
		One Component	705.01.01.00
		Two Component	705.01.01.00

Soil / Geotechnical:	Stabilization:	Chemical, Liquid	308.03.02.01
	Void Elimination:	Polyurethane Foam, Hi Density	308.03.02.01

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>
Traffic Control:	Portable Changeable Message:	Trailer Mount	630.03.01.00
		Vehicle Mount	630.03.01.00
	Arrow Board:	Type A	630.03.01.00
		Type B	630.03.01.00
		Type C	630.03.01.00
		Type D	630.03.01.00
	Speed Notification:	Radar/Message Trailer	630.03.01.00
		Speed Display Trailer	630.03.01.00
		Speed Display Device	630.03.01.00
	Traffic Control Enhancement:	AFAD	630.04.01.00
		Flashing Beacon	614.06.01.00
		Warning Light	630.08.02.00
		Raised Island, Temporary	630.08.02.00
		Rumble Strip, Temporary	630.08.02.00
		Glare Screen	630.08.01.00
	Channelizing Device:	Cone	630.05.01.00
		Tubular Marker	630.05.02.00
		Vertical Panel	630.06.01.00
		Drum	630.06.02.00
		Barricade, Type 1	630.06.02.00
Barricade, Type 2		630.06.02.00	
Barricade, Type 3		630.06.02.00	

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>
Traffic Control	Channelizing Device:	Direction Indicator Barricade	630.02.02.00
		Longitudinal Channelizing Device	630.06.04.00
		Opposing Traffic Lane Divider	630.06.03.00
	Delineator:	Flexible Post	612.02.02.00
		Flexible, Multiple Hit Post	612.02.02.00
		Guardrail Mount	612.02.02.00
	Reflective Element:	Barrier (Solid Wall) Marker	612.02.04.00
		Guardrail & Post Marker	612.02.04.00
		Delineator Post Marker	See Note 8
		Linear Reflector Strip	612.02.05.00
	Post Anchoring:	Mechanical System	612.05.01.00
		Polyurethane Foam, Backfill	614.02.03.00
	Traffic Barrier, Temporary:	Barrier, Non-Concrete	630.07.01.00
		Barrier Gate	630.07.01.00
		Concrete Pre-Cast Barrier [Type 7]	630.08.00.00
	Crash Cushion, Temporary:	Impact Attenuator, Temporary	630.08.04.00
		Truck Mounted Attenuator (TMA)	630.08.03.00
		Trailer Mounted Attenuator	630.08.03.00

<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>
Traffic Control:	Sign Stand:	N/A	630.02.01.00
Traffic Control:	Pave. Marking Material:	Preformed Plastic Tape, Type I, Perm.	713.13.01.00
		Preformed Plastic Tape, Type II, Perm.	713.13.01.00
		Preformed Plastic Tape, Type III Perm.	713.13.01.00
		Thermoplastic, Hot Applied	713.12.01.00
		Thermoplastic, Preformed, No-Preheat	713.14.01.00
		Thermoplastic, Preformed, Preheat	713.14.01.00
		Epoxy Paint, Standard	713.17.01.01
		Epoxy Paint, Modified	713.17.01.02
		Waterborne	708.05.02.00
		Waterborne, Hi-Build	708.05.03.00
		Polyurea, Paint	713.17.02.00
		Methyl Methacrylate	713.19.01.00
		Recessed Pavement Marker	713.18.02.00
		Raised Flexible Marker (Temp.) 7	13.18.01.00
		Temp. / Construction, Tape	713.16.01.00
		Temp. / Construction, Paint	713.16.02.00
Traffic Control:	Lighting / Light Standards	Conduit, Pull boxes, misc. wiring Items	613.02.00.00
<hr/>			
<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>
Traffic Control:	Sign Sheeting:	ASTM D4956, Type IV	713.04.01.00
		ASTM D 4956, Type V	713.04.01.00
		ASTM D 4956, Type VI	713.04.01.00
		ASTM D 4956, Type VI [Roll-up & Cone Collar]	713.04.01.00
		ASTM D 4956, Type VIII	713.04.01.00
		ASTM D 4956, Type VIII, Fluorescent	713.04.01.00
		ASTM D 4956, Type IX	713.04.01.00
		ASTM D 4956, Type IX, Fluorescent	713.04.01.00
		ASTM D 4956, Type XI	713.04.01.00
		ASTM D 4956, Type XI, Fluorescent	713.04.01.00
		Films / Miscellaneous	713.04.01.00
<hr/>			
<u>APL Category</u>	<u>APL Sub-Category</u>	<u>APL Base Category</u>	<u>Material Code</u>
Waterproofing:	Concrete Sealer:	Alkyl-alkoxy Silane	515.03.01.00
		Non-Alkyl-alkoxy Silane	515.03.01.00
		Penetrating Epoxy	515.03.01.00
		Micro-Subsurface Repair	515.03.01.00
	Elastomeric Membrane:	Single Component, Hot Applied	705.09.01.00
		Non-Asphaltic	705.08.01.00

Example Letters, Notices, and Forms Sample Buy America Certification

The specification requires the Contractor to certify that he has obtained all the correct certifications from the manufacturers and suppliers and maintain the certifications on file at the project. These Buy America certifications are to be received and approved by CDOT before the materials are incorporated into the project. Once the Contractor receives the Buy America certification from manufacturers and suppliers, the Contractor shall provide CDOT with a Buy America certification such as the example below. CDOT does not accept blanket Buy America letters covering all materials.



Kryptonite Construction Inc.
13369 W. Rocky Rd.
Smallville, Colorado 91130
Phone 999-123-4567

Attn: Project Engineer
Date: August 3, 2022
Re: CDOT Contract ID: 53124
Re: CDOT Project No. CC 00-0000-00

Subject: Buy America Certification & Exception for Foreign Steel

Kryptonite Construction hereby certifies that during the month of July 2018 the materials and quantities represented below, to be incorporated into the project, meet the contract Buy America requirements. We also certify that the Buy America Documents and certifications required by Section 106.11 are on file at the project.

1.) 550 LF of 24" culvert pipe for bid item 603-01180

Minor Exceptions: ___ Yes X No

A value less than 1/10 of 1% of the total contract cost or \$ 2,500.00 whichever is greater.

Documentation is in our Project Files.

Respectfully,

Clark Kent

Clark Kent
Construction Manager
Kryptonite Construction Inc.



Note 1: The Buy America Certification is to always be received by the Project Engineer before the steel or iron being incorporated into the project.

Note 2: The delivery date and/or the incorporation date may be included in the letter.

This example depicts what is to be provided for each delivery.

Sample Summary of Buy America Quantities

This is a suggested format for the reconciliation of the Buy America Certification quantities with Installed Quantities. The Contractor shall submit this summary monthly to the Project Engineer for material incorporated during the previous month. The Project Engineer will verify the information in the Summary and all Buy America certifications provided by the Contractor. Before approving a progress payment, the Resident Engineer will verify that the quantities in the Contractor’s summary document match the quantities in the progress payment.



Kryptonite Construction Inc.

Summary of Buy America Certifications Received for Installed Steel / Iron Products

CDOT Project No.: CC000-000-00
 CDOT Contract ID: 53124
 Summary for the Period Ending: July 2018

Item	Item Description	Delivery Date	Quantity Delivered to Project	Unit	Delivered Cost *	BUY AMERICA CERTIFICATION Quantity	Installed Quantity	Unit	Installation Month	BUY AMERICA CERTIFICATION Date
603-01180	24" culvert pipe	11-Jul-18	550	LF		550	300	LF	July	9-Jul-18
						550	250	LF	August	9-Jul-18
Total	603-01180 24" culvert pipe		550	LF			550	LF		

Prepared by: _____ Title: _____ Date: _____

* If there is any foreign steel or iron permanently incorporated into the project the Contractor shall provide documentation of the project delivered cost of that foreign steel or iron.

EXAMPLE

Suggested format for the reconciliation of the Buy America Certification quantities with Installed Quantities. The Contractor shall submit this summary to the Project Engineer.

As per Subsection 4.2 Monthly Summary of Buy America Certifications.

CLARIFICATION: This summary example indicates that the Period Ended in October. The Buy America Certification date is from July 9th and the Delivery Date from July 11th. This example document summarizes the quantity delivered along with the quantity installed.

Note: This example depicts what is to be provided monthly summarizing delivery and installation.

Sample Buy America Certification with Exceptions

The specification requires the Contractor to document the project delivered costs of any foreign steel or iron permanently incorporated into the project. This is an example of the requirement. An electronic signature or original signature can be submitted to the CDOT project.



Kryptonite Construction Inc.
13369 W. Rocky Rd.
Smallville, Colorado 91130
Phone 999-123-4567

Attn: Project Engineer
Date: October 4, 2022
Re: CDOT Contract ID: 53124
Re: CDOT Project No. CC 00-0000-00

Subject: **Buy America Certification & Exception for Foreign Steel**

Kryptonite Construction hereby certifies that during the month of September 2018 the materials and quantities represented below, to be incorporated into the project, meet the contract Buy America requirements. We also certify that the Buy America Documents and certifications required by Section 106.11 are on file at the project.

1.) 150 LF of 24" culvert pipe for bid item 603-01180

Minor Exceptions: Yes No

A value less than 1/10 of 1% of the total contract cost or \$ 2,500.00 whichever is greater.
Documentation is in our Project Files.

1.) 16 panels of ADA Truncated Domes which were imported from China were incorporated into the project. The total contract cost to date of imported steel or iron is \$1,831.66.

Respectfully,

Clark Kent

Clark Kent
Construction Manager
Kryptonite Construction Inc.

Example Buy America Requirements as per Subsection 106.11
--

American Glass Bead Inc.
 Desert Ray, Tx. 76660
 Phone: (254)562-2541
 Fax: (254)562-2542
www.agbi.com

CERTIFIED TEST REPORT

Colorado Department of Transportation (CDOT) project number: MTCE 03-022
 Name of Product: AASHTO M 247 Type 1 Colorado Spec Glass Beads
 *Product Code: AGBI- 0123
 Product Batch Number: 021805
 *Product date of manufacturing: April 25, 2017
 *Quantity Shipped: 44000 Pounds
 * Date of Shipment: TBA
 Laboratory Information:
 *AGBI Inc.: HWY 40 & FCR 145
 *Testing Date: 2/18/05
 * Samples Tested: Samples are from Batch # 021805
 AASHTO Designation M 247
 *AASHTO M 247 Type 1 Colorado Spec
 Test Results: Gradation (ASTM Standard D 1214)

Sieve Designation	Specification for AASHTO M 247 Mass Percent Passing (Type 1)	Test Result
No. 20 (0.850 mm)	100	100
No. 30 (0.600 mm)	75-95	86.9
No. 40 (0.425 mm)	-	-
No. 50 (0.300 mm)	15-35	24.2
No. 80 (0.180 mm)	-	-
No. 100 (0.150 mm)	0-5	.7

AASHTO M 247 Type 1: Test Results: Other Properties

Element / Method	Specification for AASHTO M 247 Specification Limit	Test Result
Roundness/ASTM D 1155	70% min	71.4%
Crushing Resistance ASTM D 1213	Retained 0.425-mm (No. 40) sieve 133N (30 lbs.) min.	Passing
Refractive Index (Ref: TT81325C Section 4.3.3)	1.50 min	1.52
Moisture Resistance	Non-Moisture absorption & Free flowing	Passing
Flotation	90% of all beads shall float in xylene	n/a

Certification of Material: The referenced material meets or complies with the AASHTO M 247 Type 1 Colorado Specification.

Clark Kent
 Quality Control Manager

I hereby certify under penalty of perjury that the material listed in this Certified Test Report Represents 10,000 LBS (quantity and units) of pay item Glass Beads Item 627 (pay item # and description) that will be installed in conformance with the plans and specifications on Project Number XXX-01234.

Clark Kent Digitally signed by Clark Kent
Date: 2022.11.02 11:52:24 -0600 11/02/2022
 Contractor Rep. Signature Date

Glass Beads: Acceptance Method: COC and CTR. The Contractor shall provide the Engineer with one copy of Certificate of Compliance (furnished by supplier and stamped by the Contractor) that verifies the Glass Beads have been manufactured from North American glass waste streams in the United States of America, and **Certified Test Reports for Glass Beads** (furnished by the supplier) to be filed.

North-By-Northwest, North-By-Northwest, Inc.
9876 S. Eva-Marie Blvd.
Grant, South Dakota 54321
Phone 999-123-4567

Certificate of Compliance

Product Name: Universal Bridge Deck Expansion Joint
Model: UBDEJ-101
Lot: 135-02

Description: Pre-formed Silicone gland, that can be bonded directly to an Elastomeric concrete joint interface with a single component silicone-locking adhesive.

Material Testing Specifications:

<u>Property</u>	<u>Test Method</u>	<u>Mean Value</u>
Durometer (Shore A)	ASTM D 2240	55
Tensile (psi)	ASTM D 412	650 psi
Elongation (%)	ASTM D 412	382 %
Tear (die B ppi)	ASTM D 624	88 ppi
Compression Set At 350°F 22 hrs.	ASTM D 395	30 %
Operating Temperature Range		-60° F to 450° F
Specific Gravity		1.51

State Specification Reference:
Colorado DOT Standard Specifications for Road and Bridge Construction,
Section 412.13 (c). Project plans as required.

CDOT Project Number NH 0507-123

The above referenced tests were performed within our laboratory on May 10th 2017.
All tests passed and the minimum required values were exceeded. Applicable laboratory test reports are available upon your request.

North-By-Northwest, Inc.

John Doe
John Doe
Manager, Quality Assurance

Date: 12 May 2017

Copy of Electronic
Certificate of
Compliance (COC)
stamp

I hereby certify under penalty of perjury that the material listed in this Certificate of Compliance represents 100 Linear Feet (quantity and units) of pay item Elastomeric Expansion Devices Item 518 (pay item # and description) that will be installed in conformance with the plans and specifications on Project Number NPH 8765.

Clark Kent 04/03/2020
Contractor Rep. Signature Date



Kryptonite Construction Inc.

13369 W Rocky Road
Smallville, Colorado 91130
Phone 999-123-4567

Contractor's COC/CTR Verification

Date: 05/06/2022
CDOT Contract ID: 23506
CDOT Project No.: NHPP 1601-123
CDOT Project Location: US 141 Naturita Overlay

Material Information

Material (One Material per Form): Sign Panel
Quantity Represented by COC/CTR: 511 SF - Total Project
Product/Facility Name: Sign Panel - sold by Roadside Surplus
Manufacturer: Road Side Supplies
Description of Material: Sign Panel CI I and II
Lot, Heat, or Batch number: 01407

I hereby certify under penalty of perjury that the material listed in this Certificate of Compliance/Certified Test Report represents:

Pay Item Number	Pay Item Description	Quantity of Pay Item	Pay Item Unit
614-00011	Sign Panel (Class I)	346	SF
614-00012	Sign Panel (Class II)	165	SF

That will be installed in conformance with the plans and specifications of the aforementioned project.

Kryptonite Construction Inc.
13369 W. Rocky Rd.
Smallville, Colorado 91130
Phone 999-123-4567

Clark Kent Digitally signed by Clark Kent
Date: 2022.05.13 15:48:12 -0800
Clark Kent, Construction Manager



Kryptonite Construction Inc.

13369 W Rocky Road
Smallville, Colorado
91130 Phone
999-123-4567

Contractor's Approved Products List Verification

Date:	04/26/2022
CDOT Contract ID	12345
CDOT Project No.	NHO-010-1245
CDOT Project Location	North I-25

The following material was selected from the CDOT Approved Products List (APL) in accordance with the project plans, the 2021 CDOT Standards and Specifications for Road and Bridge Construction, and the 2023 CDOT Field Materials Manual.

NOTE: Include the CDOT Form 595 along with this letter when selecting from the CDOT Approved Products List. (See example of CDOT Form 595 on next page).

CDOT APL Category	Asphalt
CDOT APL Sub-Category	Emulsion
CDOT APL Base Category	CSS-1h
CDOT APL Reference No.	5352-22
Product / Facility Name	CSS-1h / Suncor Energy BKEP
Manufacturer	BlueKnight Energy Partners LP.
Date of CDOT APL Webpage Review and Selection	04/26/2022

Kryptonite Construction Inc.
Clark Kent
Construction Manager

I hereby certify under penalty of perjury that the material listed in this Certificate of Compliance represents <u>10,000 Tons</u> (quantity and units) of pay item <u>411 Emulsion CSS-1h</u> (pay item # and description) that will be installed in conformance with the plans and specifications on Project Number <u>12345</u> .	
Clark Kent Contractor Rep. Signature	<small>Digitally signed by Clark Kent Date: 2022.04.26 14:11:30 -0500</small> <u>04/26/2022</u> Date

Example of Approved Products List Electronic COC

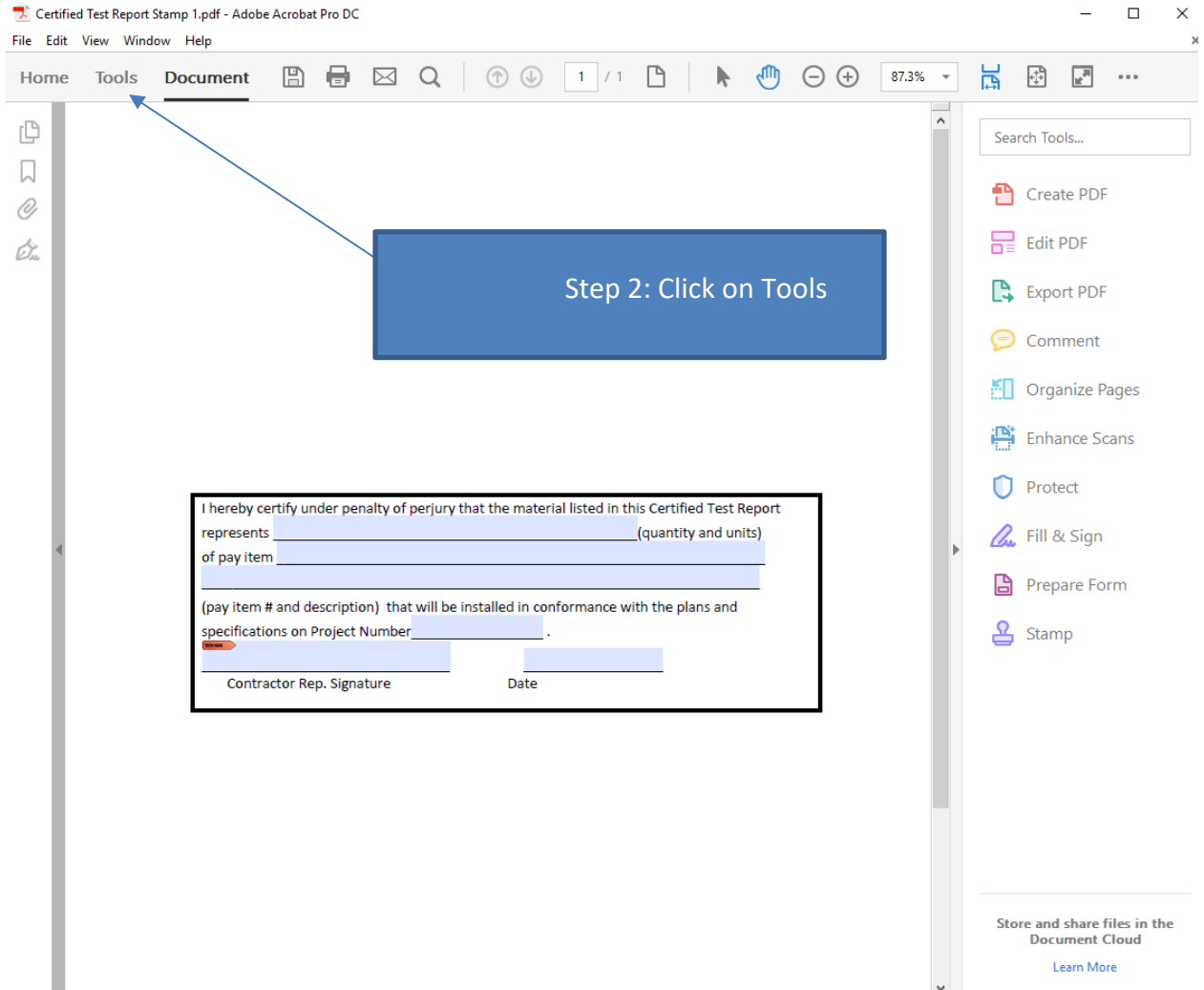
EXAMPLE Pre-Approved Product Evaluation CDOT Form 595

COLORADO DEPARTMENT OF TRANSPORTATION PRE-APPROVED PRODUCT EVALUATION REQUEST & SUMMARY		APL Reference No. 5352-22 <small>USE ONLY</small>
Product Evaluation Coordinator Colorado Department of Transportation 4670 North Holly Street, Unit A Denver, Colorado 80216	Material Code 702.03.19.00 <small>CDOT Use Only</small> Material Code description full name Emulsion, CSS-1h <small>CDOT Use Only</small>	
PART 1		
Product name: CSS-1h (2022)	Product category: Asphalt\ Emulsion\ CSS-1h	
Product Representative (name & address): Attn: Jim Hazell Suncor Energy (USA) Inc. 717 17th Street, Suite 2900 Denver, CO 80202 Phone: (303) 793-8009 E-mail: jhzell@suncor.com	Manufacturer (name & address): Attn: Phil Lawlor BlueKnight Energy Partners, LP 5022 East 60th Avenue Commerce City, CO 80022 Phone: (303) 227-8205 E-mail: plawlor@bkep.com	
Web-site address: www.suncor.com	Web-site address: www.suncor.com	
Description of the product: (Include specific quantifiable details from tech data sheet. Advertising generalities are not appropriate.) Emulsified asphalt cement designated as CSS-1H. Source facility: Manufacturing Terminal BlueKnight Energy Partners LP (BKEP) manufactures and stores products on behalf of Suncor Energy (USA) Inc.		
Restrictions. (installation and/or use):		
Use of the product. (be specific to CDOT highway activities only): Tack Coat, Fog Seal		
Benefits to CDOT. (how will your product enhance quality, improve safety, save money, be a better value than other manufacturer's products):		
Specifications: (listing those applicable is required) <input checked="" type="checkbox"/> CDOT : CDOT Standard Specifications; Section 702; Table 702-2 <input type="checkbox"/> ASTM : <input type="checkbox"/> AASHTO : <input type="checkbox"/> FHWA : <input type="checkbox"/> other : <input checked="" type="checkbox"/> Certificate of Compliance (COC) provided <input type="checkbox"/> Certificate of Verification (COV) provided for select categories ONLY		
Product Testing: (National/independent laboratories or universities with Report Date.) Certified Test Report (CTR) provided to validate all claims. <input type="checkbox"/> NTPEP-AASHTO : <input type="checkbox"/> FHWA : <input checked="" type="checkbox"/> other : CDOT Bituminous Laboratory <input type="checkbox"/> other : <input type="checkbox"/> other :		
State DOT Approvals, (current documentation required):		Expiration Date < 2 Years / 02-01-2023
Sample submitted: <input type="checkbox"/> yes <input checked="" type="checkbox"/> no <input type="checkbox"/> n/a		Safety Data Sheets (SDS): <input checked="" type="checkbox"/> yes <input type="checkbox"/> no <input type="checkbox"/> n/a
Alternate Product Category:		
CDOT Product RESTRICTIONS by CDOT Evaluator: May be used on CDOT Projects requiring CSS-1H Emulsion <small>CDOT use Only</small>		Evaluators Signature:

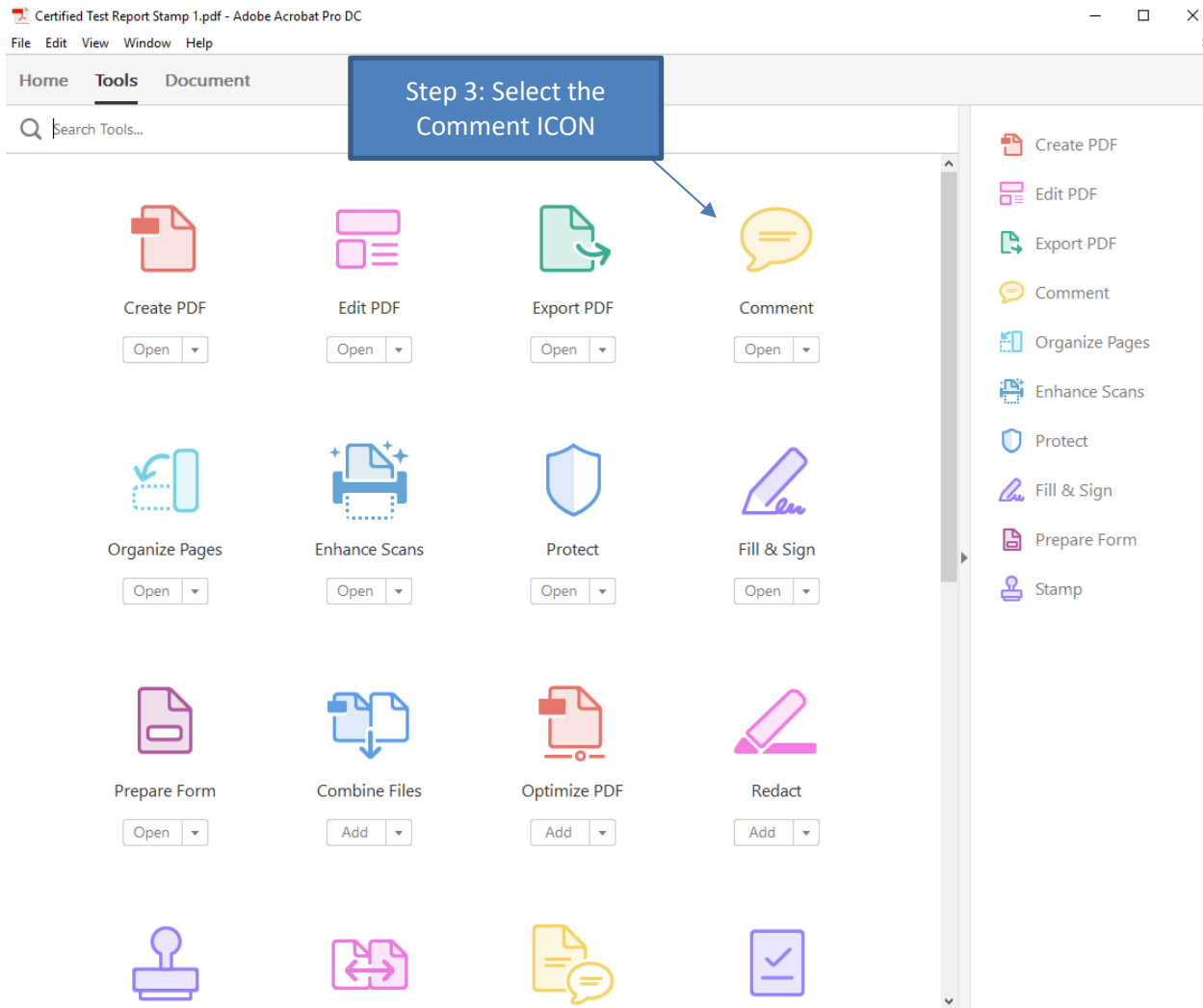
Instructions on adding the Electronic Certified Stamps onto your Adobe Pro DC

Step 1: Download the following Adobe Stamps onto your computer in a file or desktop using the following link, fill out the stamp with all your information and electronically sign the stamp, save and continue with the instructions below.

Step 2: Open the file for Certified Stamp using Adobe Pro DC and open "Tools".



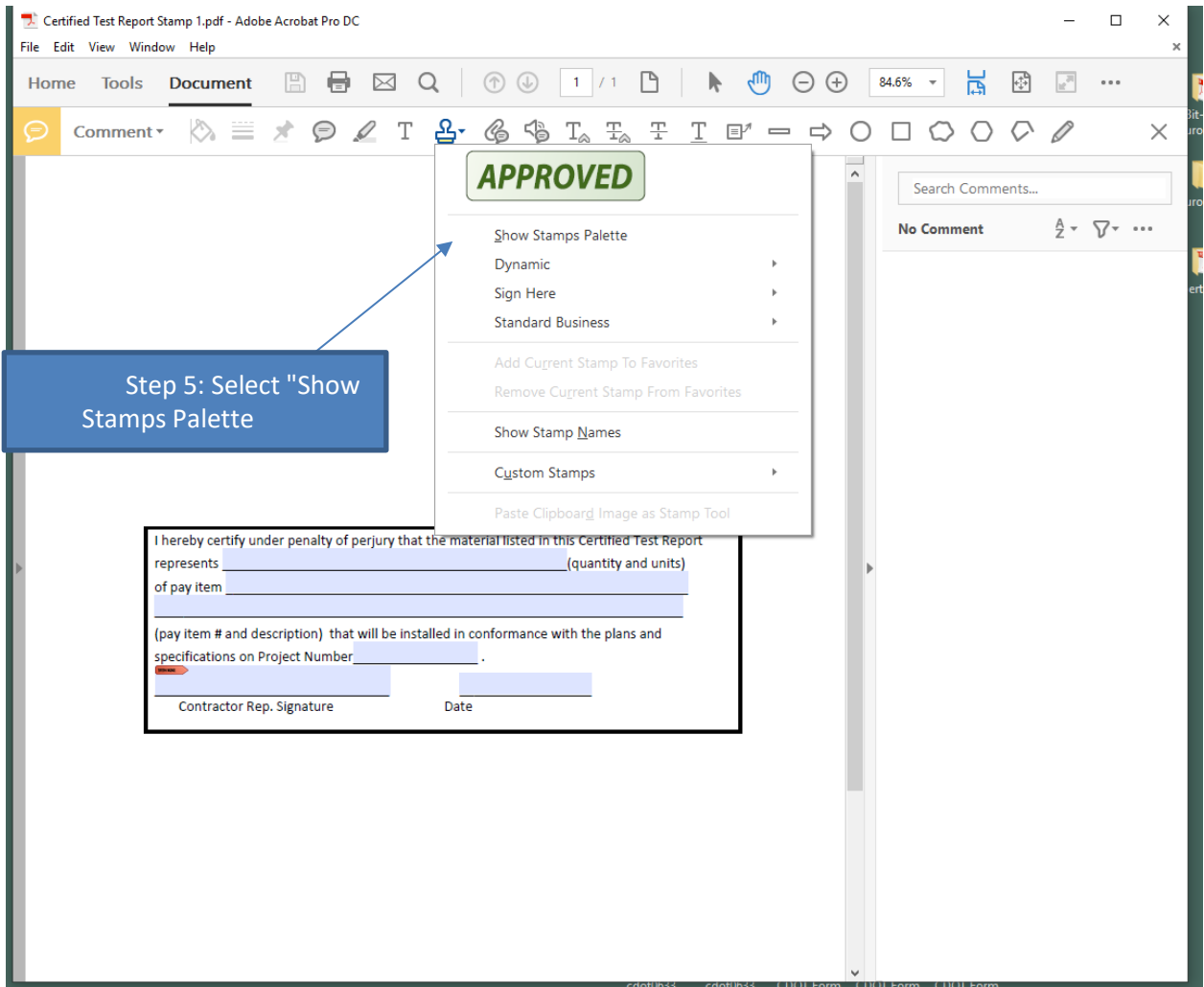
Step 3: Select the "Comment" ICON.



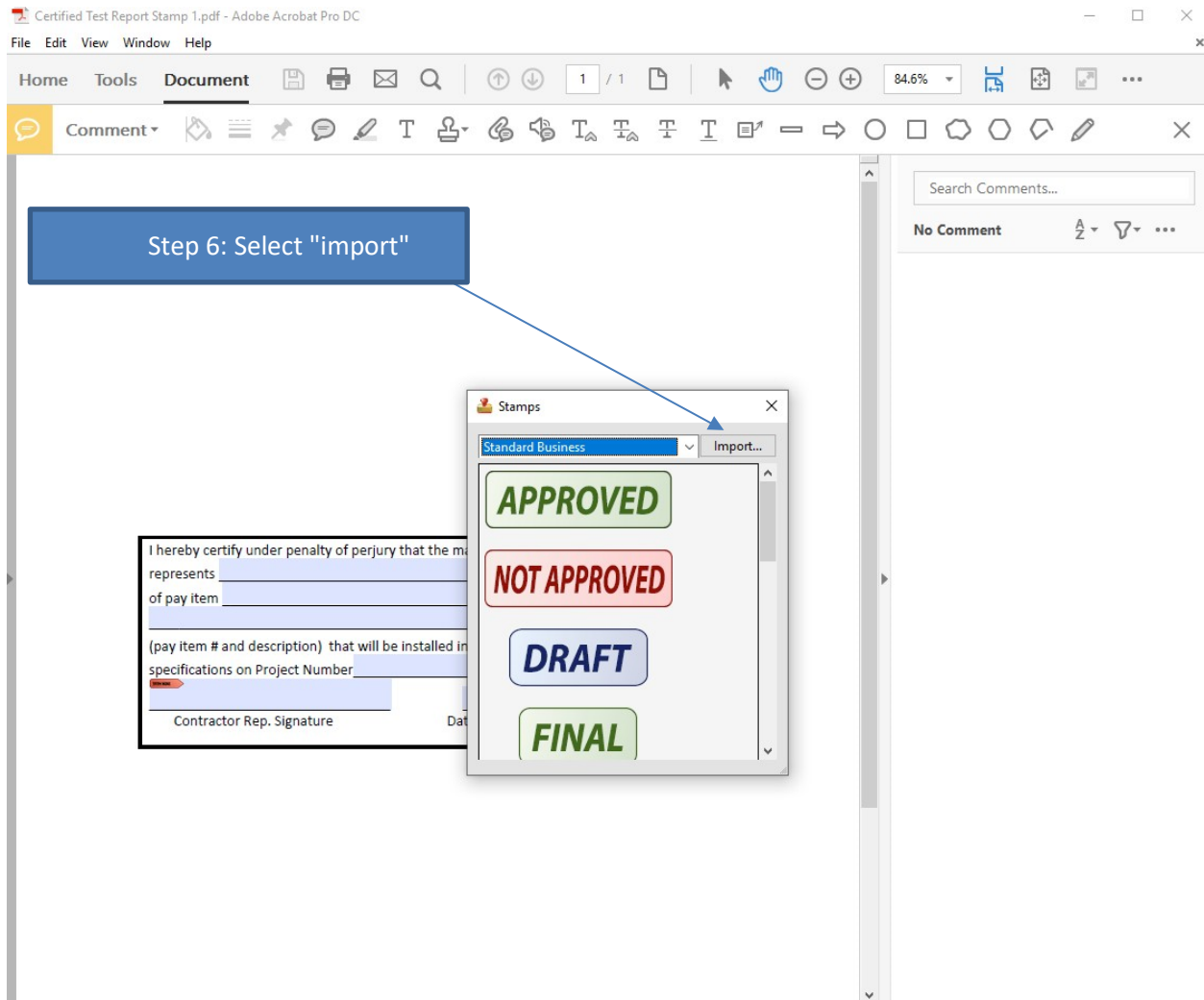
Step 4: Select Stamp ICON

The screenshot displays the Adobe Acrobat Pro DC interface. The title bar reads "Certified Test Report Stamp 1.pdf - Adobe Acrobat Pro DC". The menu bar includes "File", "Edit", "View", "Window", and "Help". The toolbar shows various tools, with the "Stamp" tool icon (a person with a checkmark) highlighted by a blue arrow. A blue box with the text "Step 4: Select Stamp ICON" is positioned above the arrow. Below the toolbar, a certification form is visible, enclosed in a black border. The form contains the following text: "I hereby certify under penalty of perjury that the material listed in this Certified Test Report represents _____ (quantity and units) of pay item _____ (pay item # and description) that will be installed in conformance with the plans and specifications on Project Number _____." At the bottom of the form, there are two fields labeled "Contractor Rep. Signature" and "Date".

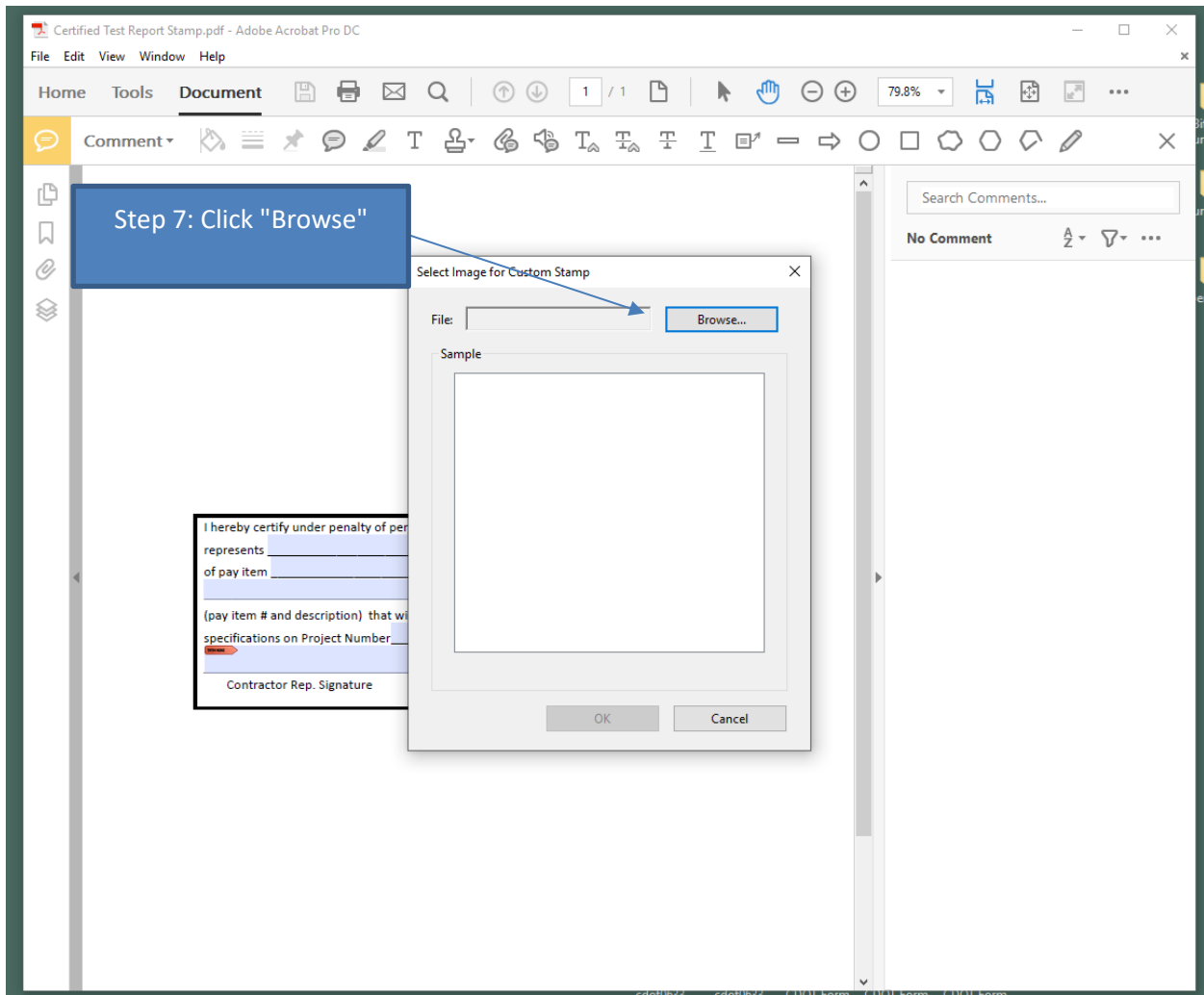
Step 5: Select "Show Stamps Palette"



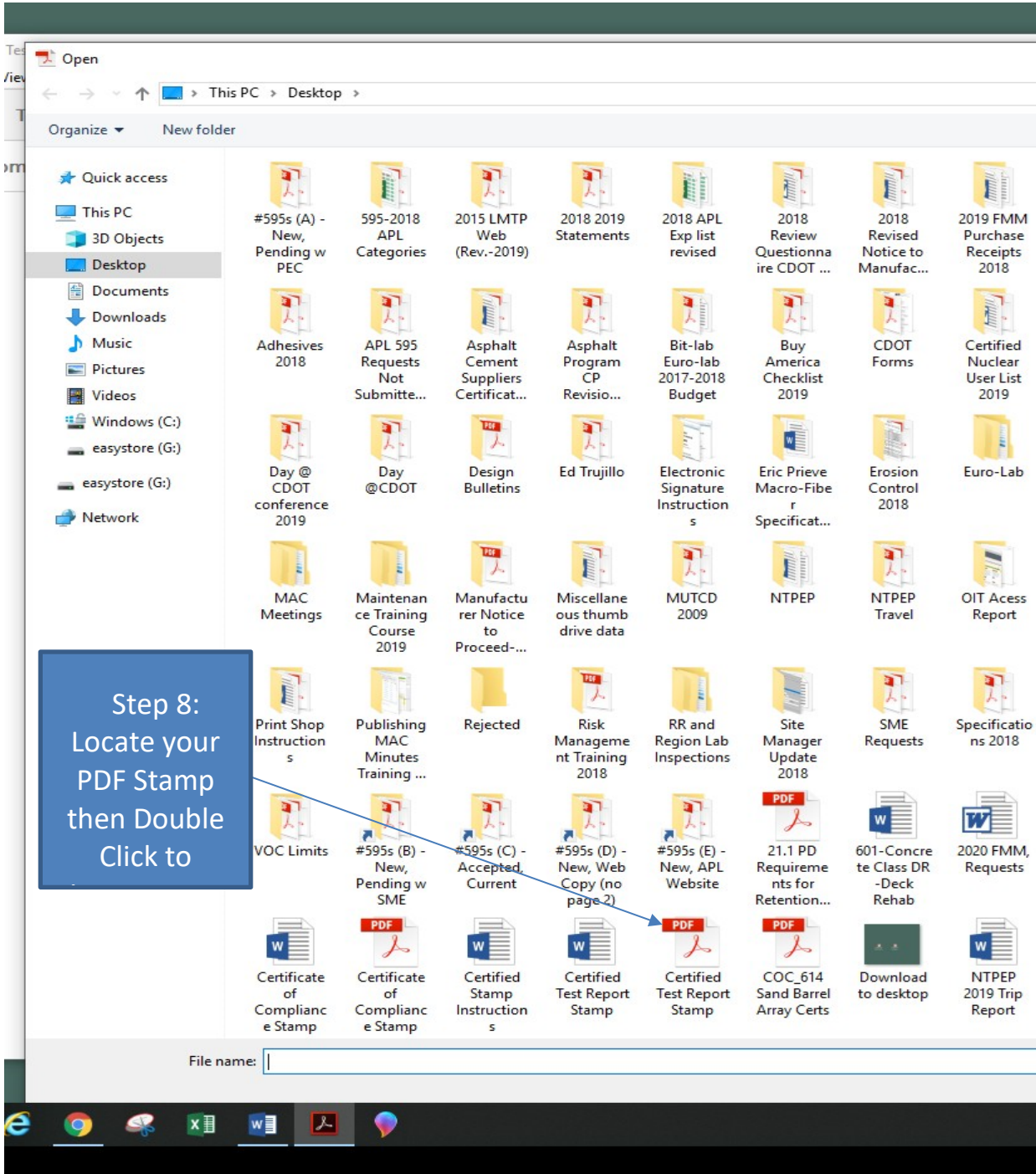
Step 6: Select "Import"



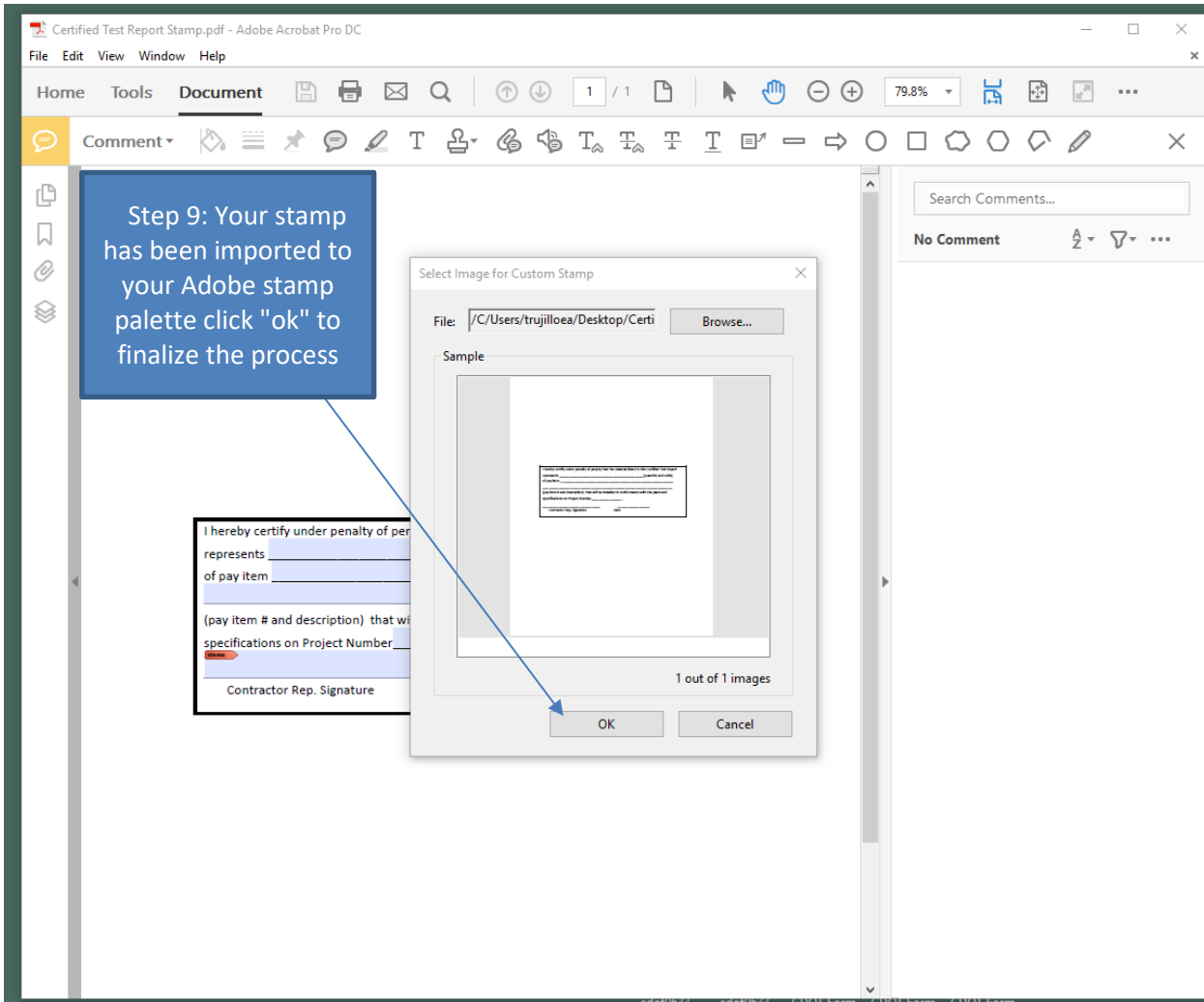
Step 7: Click on "Browse"



Step 8: Locate your Stamp on your computer or desktop.

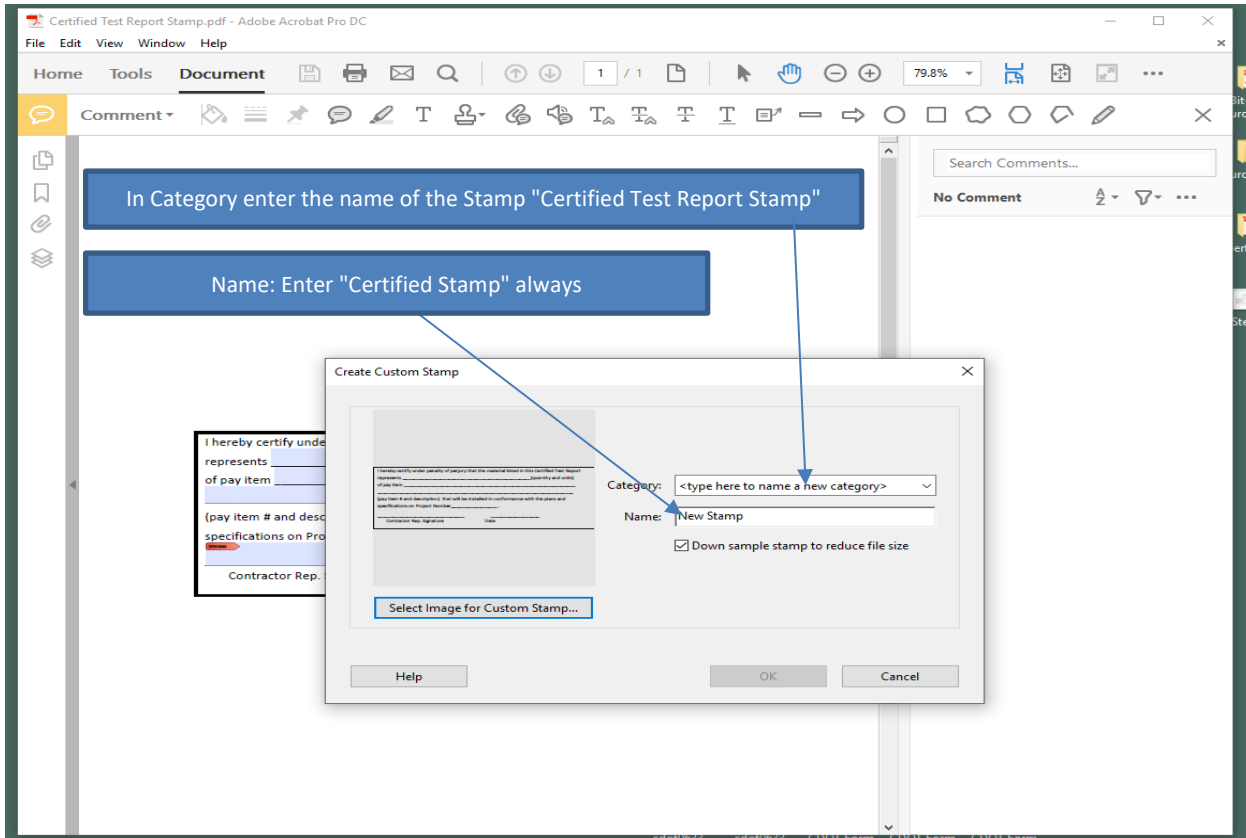


Step 9: Your file "Certified Test Report Stamp" has been imported onto your Electronic Adobe Stamp Palette click "OK" to finalize the process.

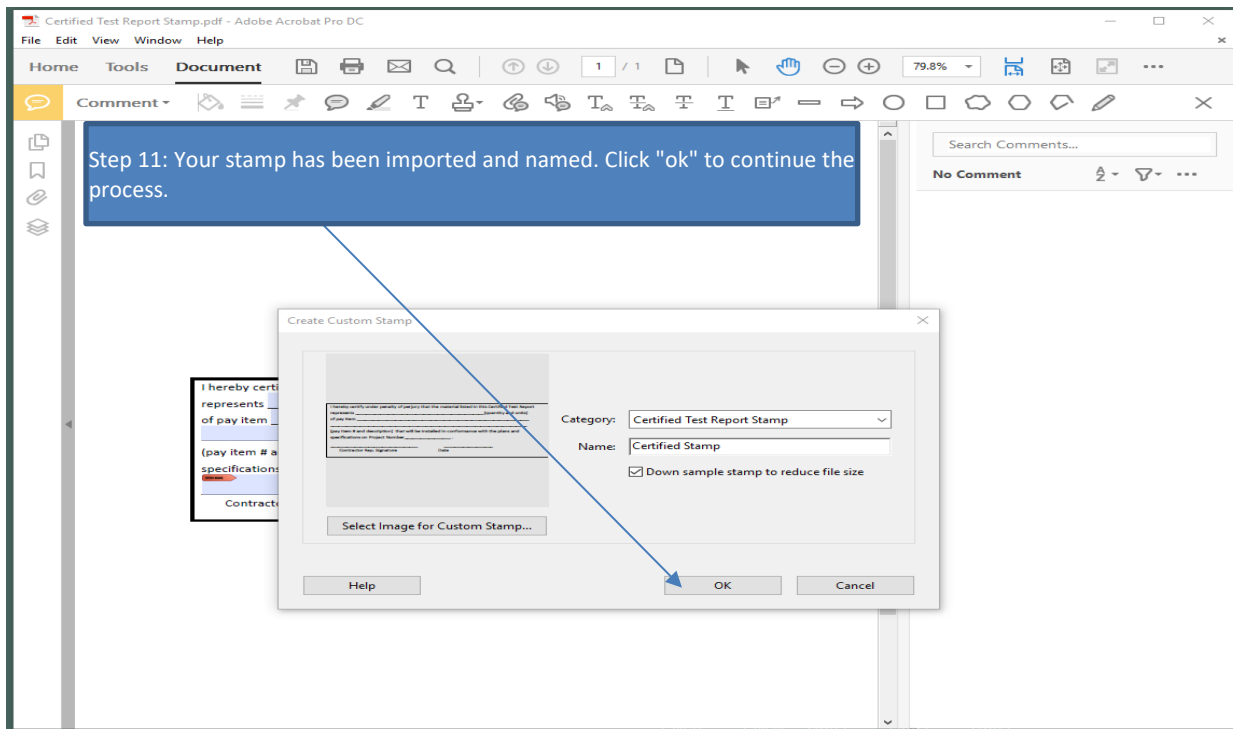


Step 10: You will now name your custom stamp. For "Category" enter the name of the stamp for example "Certified Test Report Stamp".

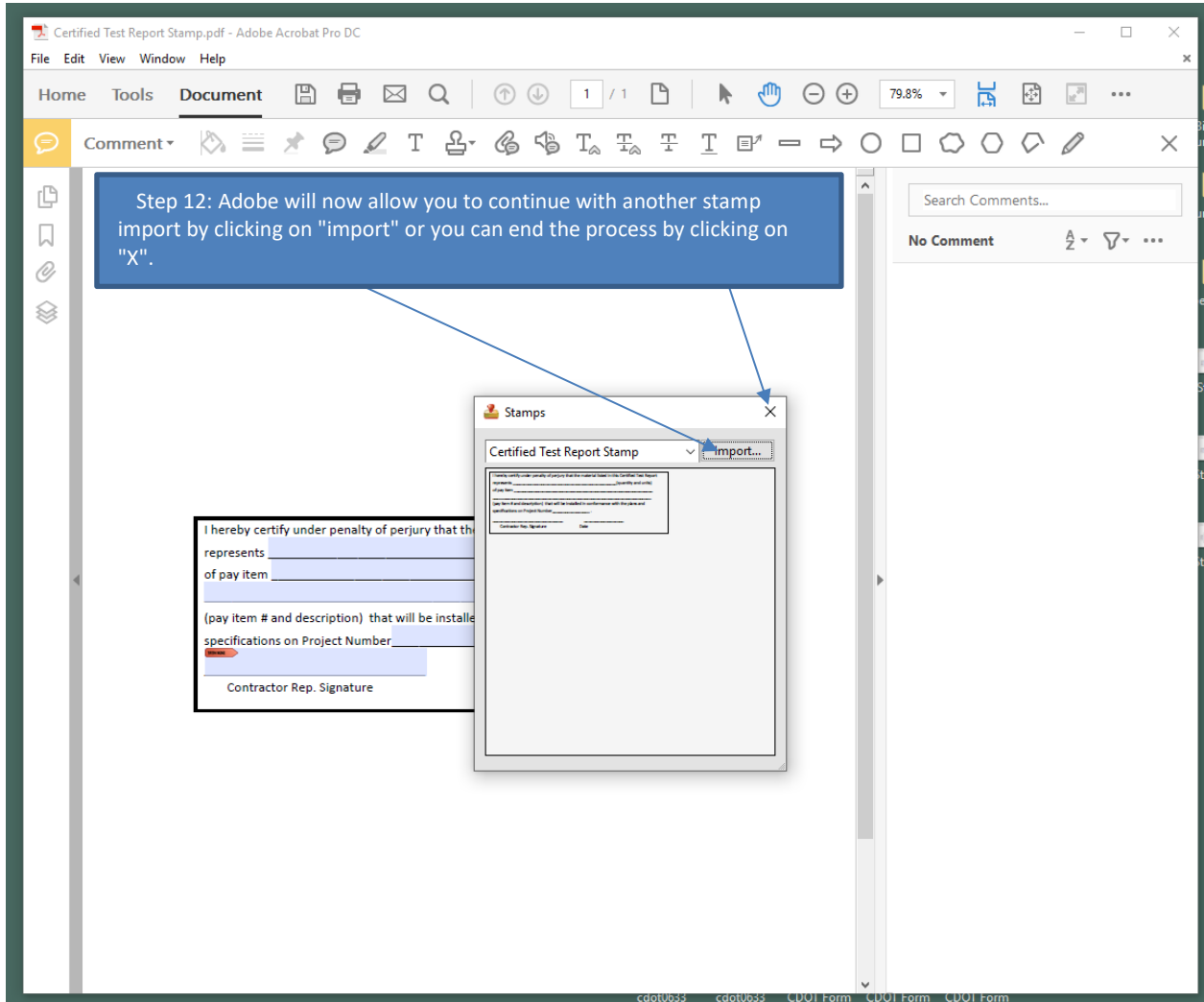
For "Name" enter the required name "Certified Stamp" for all your stamps, this name will not change.



Step 11: Click "ok".



Step 12: Adobe will now allow you to continue with another stamp import by clicking on "import" or you can end the process by clicking on "X". Repeat the steps to add on more stamps in the future.



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