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**MONTANA DEPARTMENT
OF TRANSPORTATION**

“BUY AMERICA”

DOCUMENTATION FOR STEEL AND IRON

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MDT Materials Engineer

&

MDT’s Materials Inspection and
Certification Office (MICO)



“BUY AMERICA” REQUIREMENTS

All steel and iron materials incorporated into MDT projects must meet “Buy America” requirements.

- 23 USC Section 313 – All projects eligible for Federal Aid under the National Environmental Policy Act (NEPA), regardless of funding source.
- 23 CFR 635.410 – All manufacturing processes including coating must occur in the United States.
- FHWA “Buy America” Policy, Guidance, and Q&A (<https://www.fhwa.dot.gov/construction/cqit/buyam.cfm>)
- MDT Standard Specification 106.09 – Provides the contractual link to MDT projects.
- There is a “minimal use” exception for foreign steel. \$2,500 or 1/10th of 1% of the total contract value (0.001 x Contract Value), whichever is more, can be non-domestic. This includes cost to deliver to the project.

So...what does all this mean and how do we sort through it???



“BUY AMERICA” REQUIREMENTS

What does all this mean?

- The rules apply to ALL MDT projects using any federal funds, at any point in development or construction, including maintenance projects.
- Iron and Steel must be “melted and manufactured” in the U.S.A.
- What does “melted” mean?
 - The original source of steel or iron must be a U.S. foundry, smelter, or steel mill.
 - Foreign source steel billets are not allowed
- What does “manufactured” mean?
 - Any process that modifies the chemical content; physical shape or size; or final finish.
 - Includes initial melting through the bending and coating stages. Also includes rolling, extruding, machining, grinding, and drilling – or “Fabricating”. More on that later...



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“BUY AMERICA” REQUIREMENTS

How does MDT deal with all this?

- Steel and iron products are categorized by “Material Code” in section MT 601 in the Montana Materials Manual.
- Steel Category 1 – Requires heat number traceability from the mill (mill cert) through final fabrication as well as certification all manufacturing processes, including coating, have taken place in the U.S. from each entity (each “step”) in the fabrication process
- Steel Category 2 – Requires certification from the final fabricator all manufacturing processes, including coating, have taken place in the U.S. (No heat numbers!)
- “Melted and Manufactured in the U.S.A.” or “Meets 23 CFR 635.410” or “All manufacturing processes, including coatings, have occurred in the U.S.A.”
- **NOT** “meets buy America”, “made in America”, or “meets buy American”.



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“BUY AMERICA” REQUIREMENTS

Tying it all together...

- Each contract’s Schedule of Values contains a list of Line Numbers or Line Items that correspond to the standard nine-digit Bid Items.
- Each Bid Item is assigned appropriate Material Codes with the relevant sampling, testing, and steel requirements in AASHTOWare. (see Steel Checklist Report)
- The Bid Item and the Material Code are entered on the Form 406 to track the required steel documentation.
- ALSO, Steel and iron products must meet MDT Specifications and quality requirements.
 - Just because something is domestic in origin and manufacture doesn’t mean it automatically meets spec.



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“BUY AMERICA” REQUIREMENTS

MT 601 Examples

https://www.mdt.mt.gov/publications/manuals/materials_man.shtml

– Category 1

MATERIAL/ MATERIAL CODE	TESTS	SAMPLE SIZE	SAMPLE/TEST FREQUENCY	FIELD	DISTRICT/ AREA LAB	MDT HQ LAB	NOTES
BOX BEAM GUARDRAIL 705.01.01.02	CERT/ VISUAL INSPECTION	1 EACH	ONE PER EACH	DATA SHEET VISUAL			
	STEEL CERT CATEGORY 1	1 EACH	ONE PER FORM 406	FORM 406			MANDATORY SUBMITTAL OF DOCUMENTATION FOR EACH HEAT #

– Category 2

MATERIAL/ MATERIAL CODE	TESTS	SAMPLE SIZE	SAMPLE/TEST FREQUENCY	FIELD	DISTRICT/ AREA LAB	MDT HQ LAB	NOTES
STEEL SIGN POSTS 704.01.04.01	CERT/ VISUAL INSPECTION	1 EACH	ONE PER EACH	DATA SHEET			
	STEEL CERT CATEGORY 2	1 EACH	ONE PER FORM 406	FORM 406			MANDATORY SUBMITTAL OF DOCUMENTATION PER SPECIFICATION 106.09

Item Code corresponds with Bid Item in proposal

Material Code listed in MT Materials Manual Section MT 601

Contact Information
AASHTOWare Project Help Desk
7-406-4338

AASHTOWare Project Construction & Materials

Buy America Category for each Material Code from Section MT 601

Report Name: AASH TOMAT012

Date : 04/16/2020

Contract Steel Certification Report

Steel Checklist Report Example

- Bid Item (and description)
- Material Code (and description)
- Steel Category (Cat 1 or Cat 2)
- Also shows tied project information

Project Id	Project No	Project Description
NHPB 94-5(48)170	8127048000	TERRY-FALLON AREA NHS BRIDGES
STPB STWD(686)	8127686000	TERRY-FALLON AREA STP BRIDGES

Contract Nm: 02919	Contract Description: TERRY-FALLON AREA NHS BRIDGES	Fed/St Prj Nbr: NHPB 94-5(48)170
Type of Work: BRIDGE CONSTRUCTION, REHAB AND REMOVAL	County: Prairie	Location: TERRY-FALLON AREA NHS BRIDGES

Item Code	Item Description	Unit	Project	Catg	Line Nbr	Curr Qty	Material Cd	Material Name	Acceptance Method	Steel Catg	Cmpl
202020058	REMOVE GUARD ANGLE	LNFT	8127048000	0002	0350	394.300	711.01.01.02	Rebar Grade 60	QPL Verification/Steel Certification	Catg 2	
501010401	CONCRETE-SHALLOW REPAIR	SQYD	8127048000	0002	0360	8.000	711.01.01.02	Rebar Grade 60	QPL Verification/Steel Certification	Catg 2	
501010401	CONCRETE-SHALLOW REPAIR	SQYD	8127686000	0002	0750	1.000	711.01.01.02	Rebar Grade 60	QPL Verification/Steel Certification	Catg 2	
603015270	EMBANKMENT PROTECTOR 18 IN	LNFT	8127048000	0001	0190	268.000	709.02.00.01	Corrugated Steel Pipe	Steel Certification	Catg 2	
603015270	EMBANKMENT PROTECTOR 18 IN	LNFT	8127048000	0001	0190	268.000	711.08.00.01	Galvanized Metal	Steel Certification	Catg 2	
605000040	REVISE CONCRETE BARRIER RAIL-BR	LNFT	8127048000	0002	0440	7,851.500	711.01.01.02	Rebar Grade 60	QPL Verification/Steel Certification	Catg 2	
606010040	GUARDRAIL-STEEL BOX BEAM	LNFT	8127686000	0001	0790	216.000	705.01.01.02	Box Beam Guardrai	Steel Certification	Catg 1	
606010040	GUARDRAIL-STEEL BOX BEAM	LNFT	8127048000	0001	0450	4,140.000	705.01.01.02	Box Beam Guardrail	Steel Certification	Catg 1	
606010040	GUARDRAIL-STEEL BOX BEAM	LNFT	8127686000	0001	0790	216.000	705.01.05.01	Steel Guardrail Post	Steel Certification	Catg 2	
606010040	GUARDRAIL-STEEL BOX BEAM	LNFT	8127048000	0001	0450	4,140.000	705.01.05.01	Steel Guardrail Post	Steel Certification	Catg 2	
606010268	GRD RL-BOX BEAM/BR APP-SEC-TYPE 3	EACH	8127686000	0001	0900	4.000	705.01.01.02	Box Beam Guardrail	Steel Certification	Catg 1	
606010268	GRD RL-BOX BEAM/BR APP-SEC-TYPE 3	EACH	8127686000	0001	0900	4.000	705.01.05.01	Steel Guardrail Post	Steel Certification	Catg 2	
606010268	GRD RL-BOX BEAM/BR APP-SEC-TYPE 3	EACH	8127686000	0001	0900	4.000	711.02.00.01	Structural Steel	Steel Certification	Catg 1	
606010268	GRD RL-BOX BEAM/BR APP-SEC-TYPE 3	EACH	8127686000	0001	0900	4.000	711.13.00.01	Structural Anchor Bolts	Steel Certification	Catg 2	
606010325	GRD RL-BOX BEAM TO W-BEAM TRANS	EACH	8127048000	0001	0460	16.000	705.01.01.01	Metal Beam Guardrail	Steel Certification	Catg 1	
606010325	GRD RL-BOX BEAM TO W-BEAM TRANS	EACH	8127048000	0001	0460	16.000	705.01.01.02	Box Beam Guardrail	Steel Certification	Catg 1	
606010325	GRD RL-BOX BEAM TO W-BEAM TRANS	EACH	8127048000	0001	0460	16.000	705.01.01.03	Cable Guardrail / Wire Rope	Steel Certification	Catg 2	
606010325	GRD RL-BOX BEAM TO W-BEAM TRANS	EACH	8127048000	0001	0460	16.000	705.01.05.01	Steel Guardrail Post	Steel Certification	Catg 2	
606010325	GRD RL-BOX BEAM TO W-BEAM TRANS	EACH	8127048000	0001	0460	16.000	711.01.01.01	Rebar Grade 40	QPL Verification/Steel Certification	Catg 2	
606010342	MASH THRIE BEAM BR APPRCH SECTION	EACH	8127048000	0001	0470	16.000	705.01.01.01	Metal Beam Guardrail	Steel Certification	Catg 1	
606010342	MASH THRIE BEAM BR APPRCH SECTION	EACH	8127048000	0001	0470	16.000	705.01.05.01	Steel Guardrail Post	Steel Certification	Catg 2	
606010641	GD RL BOX BEAM OPT TERM SEC	EACH	8127686000	0001	0800	4.000	606.02.00.02	Box Beam Terminal Section	Steel Certification	Catg 2	

Same bid item on both tied projects, but report groups similar Material Codes together



**CONTRACTOR'S CERTIFICATE OF COMPLIANCE
FOR STEEL & IRON ITEMS**
For Compliance with the "Buy America" Law and Provision
Std. Spec. 106.09, 23 USC Section 313 & 23 CFR 635.410

MDT Contract No.: _____ Project Name: _____

The Materials listed herein; furnished to MDT for use in the construction of the above referenced project by

(Name of Prime Contractor) (Address) (City, State) (Phone)

have originated and/or been fabricated at the mills and fabricators indicated below.

MDT Bid Item No.	Material Code (Material Description)	Quantity	Unit: LF, yd ² , tons, etc.	Heat Number	MT 601 Category 1 or 2
				Mill*	
				Final Fabricator*	

*Category 1: Provide the [steel producing/recycling mill](#) and the [final fabricator](#) of the material. Provide heat number(s). Heat number(s) must be traceable from the mill through any intermediate fabricators, including any brokers, to the final fabricator. Heat numbers are not required to be traced through brokers after final fabrication.
*Category 2: Provide the [final fabricator](#) who is certifying domestic material and manufacture. Mills/Heat numbers are not required.

Submit all required documentation with this form including contract material and design certification. Refer to section [MT 601 of the Montana Materials Manual](#) for steel product Category identification as well as sampling & testing requirements.

Contractor's Statement of Certification

Domestic Material: I hereby certify that all manufacturing processes, including initial melting/recycling and application of coatings, occurred in the United States for the above listed materials and that those materials do meet all other requirements as set forth in the plans and specifications.

Non-Domestic Material: I hereby certify that the above listed materials do meet the requirements as set forth in the plans and specifications with the exception that all or part of the manufacturing process may have occurred outside the United States. The material is considered non-domestic. The cost of this material, including delivery to the project, is _____, **(MDT to attach Foreign Steel Tracking Spreadsheet.)**

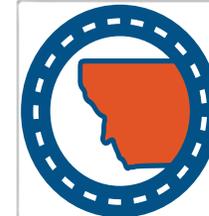
(Prime Contractor's Name, Typed or Printed) Title _____

(Prime Contractor's Signature) Date _____

Number of Item pages attached _____

"BUY AMERICA" REQUIREMENTS

- Form 406 - Contractor's Certificate of Compliance for Steel & Iron Items
- Updated in May of 2021
- Filled out and Signed by the Prime Contractor
- Required for both Category 1 and Category 2 Steel Items
- Must indicate "Final Fabricator"



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CONTRACTOR'S CERTIFICATE OF COMPLIANCE FOR STEEL & IRON ITEMS

For Compliance with the "Buy America" Law and Provision
Std. Spec. 106.09, 23 USC Section 313 & 23 CFR 635.410

How to fill out the new form 406

MDT Contract No.: _____ Project Name: _____

The Materials listed herein; furnished to MDT for use in the construction of the above referenced project by

(Name of Prime Contractor) (Address) (City, State) (Phone)

have originated and/or been fabricated at the mills and fabricators indicated below.

MDT Bid Item No.	Material Code (Material Description)	Quantity	Unit: LF, yd ² , tons, etc.	Heat Number	MT 601 Category 1 or 2
				Mill*	
				Final Fabricator*	
123 456 789	123.45.67.89	100	LF	8675309 NUCOR Oregon Universal Industrial Sales	1
123 456 789	123.45.67.89	100	Tons	Universal Industrial Sales	2

Category 1 example

Category 2 example



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CONTRACTOR'S CERTIFICATE OF COMPLIANCE FOR STEEL & IRON ITEMS

For Compliance with the "Buy America" Law and Provision
Std. Spec. 106.09, 23 USC Section 313 & 23 CFR 635.410

One copy of this certificate and attachments must be submitted to the MDT Engineering Project Manager for each bid item containing steel products before those items can be permanently incorporated into the project. **The Prime Contractor is responsible for providing proper documentation to MDT**, and no payment will be made until that documentation is provided.

All steel and iron products must meet Std. Spec. 106.09, 23 USC Section 313, and 23 CFR 635.410. All certifications must have the domestic steel statement on them and be signed by a representative of that company. **Simply stating "meets Buy America" is not sufficient. Examples of acceptable domestic steel statements are:**

- Melted and Manufactured in the United States
- Complies with 23 CFR 635.410
- All manufacturing processes, including application of coating, have occurred in the U.S.A.

All Category 1 domestic steel certifications must include certification with heat numbers from the original producing United States steel mill. Additionally, documentation must be provided tracing the heat number through final fabrication and **certifying** each fabrication process, **including coating**, as completed within the United States.

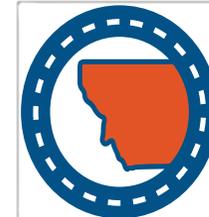
At a minimum, Category 2 domestic steel certifications must include a signed statement from the final fabricator indicating steel products as melted/recycled and manufactured entirely within the United States. Heat numbers are not required to be submitted for Category 2 items however the final fabricator must maintain all original mill certs. Coating is considered fabrication however it may be impractical for a coating contractor or supplier to certify a fabricated item they were sent to coat is fabricated from domestic steel. **In these cases, the fabricator of the item coated must make it clear the coating was performed in the US.**

At a minimum, the total amount of all steel and iron incorporated into the project must be covered by one or more form 406s. Multiple forms should be submitted for multiple deliveries. The total quantity indicated on multiple form 406s for the same item must equal at least the quantity of that item permanently incorporated into the project. This includes steel and iron materials that are incidental to the bid item.

This form must be **completed and signed** by the Prime Contractor. In signing, the Prime Contractor attests to the accuracy of the information provided.

"BUY AMERICA" REQUIREMENTS

From Instructions on Form 406

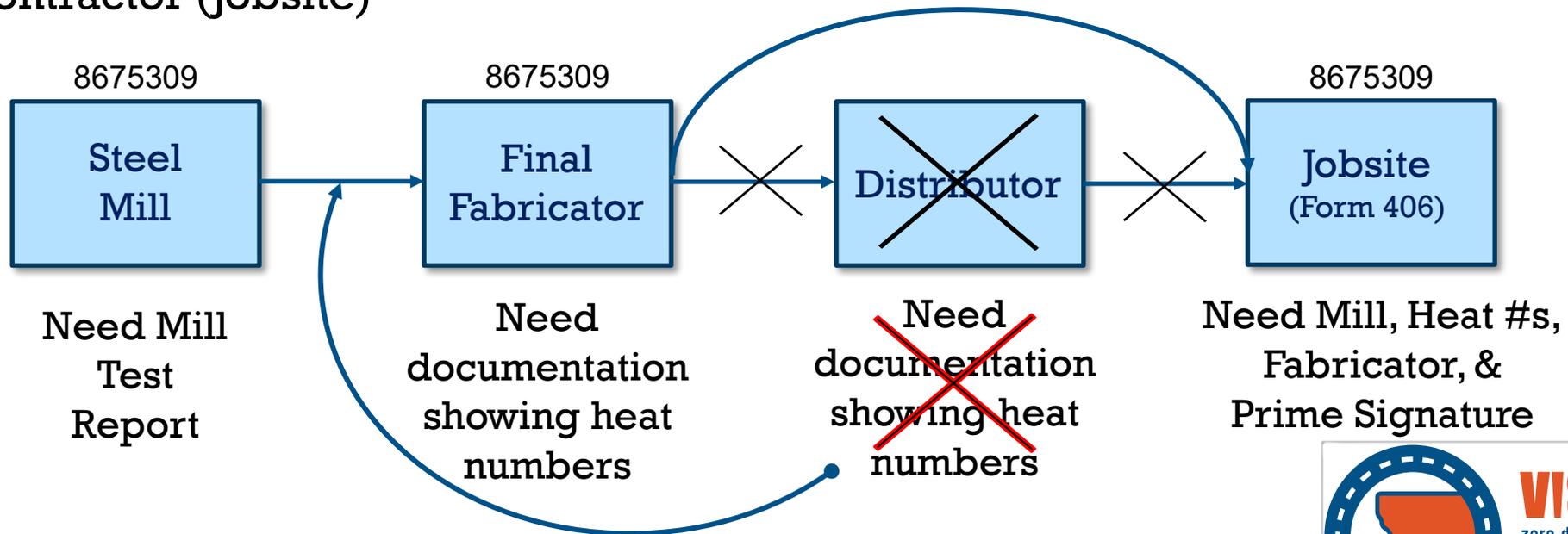


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“BUY AMERICA” REQUIREMENTS

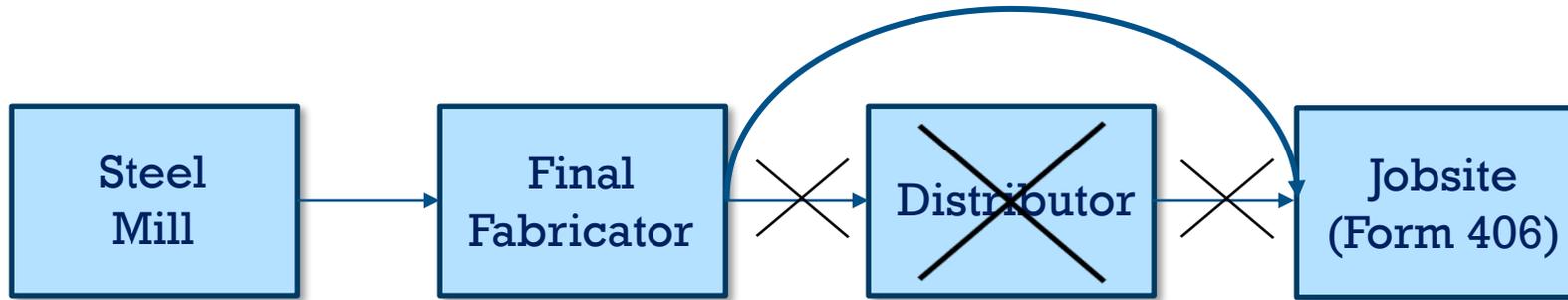
CATEGORY 1

- Original Mill Test Report with Heat #s & domestic statement (Melted & Manufactured in USA)
- Heat #s traced from the original Mill Test Report, through any brokers, through any manufacturing, coating, etc., to the Final Fabricator.
- Each fabricator certifies fabrication (manufacturing & coating) has taken place in the USA.
- Heat #s on Final Fabricator certification and name of Mill listed on Form 406, signed by Prime Contractor (Jobsite)



“BUY AMERICA” REQUIREMENTS CATEGORY 1 EXAMPLE

Material Provided from ~~Distributor~~ Final Fabricator



- Mill test Report
- Includes Heat #240943
 - Traceable to **Final Fabricator**
 - Includes M&M statement

- Includes Heat #240943
- ~~Traceable to Subcontractor~~
- ~~Traceable to Project~~
- Includes M&M statement

- Lists Heat #240943
- Lists Mill
- Lists **Final Fabricator**
- Signed by Prime Contractor



“BUY AMERICA” REQUIREMENTS CATEGORY 1 EXAMPLE

CONTRACTOR'S CERTIFICATE OF COMPLIANCE FOR MISCELLANEOUS STEEL & IRON ITEMS For Compliance with the Buy America Law and Provision Std. Spec. 106.09, 23 USC Section 313 & 23 CFR 635.410

MDT Project No. NIIFP 46 2(403)122 Project Name Rocker Interchange Improv
The Universal Industrial Sales PO Box 699 Pleasant Grove UT 84062 801-785-0505
(Name of Manufacturer/Supplier) (Address) (City, State) (Phone)

has furnished to Mountain West Holding Company PO Box 31793 Billings MT 59107 406-256-0199
(Name of Contractor) (Address) (City, State) (Phone)

The following materials for use in the construction of the above referenced project.

MDT Bid Item No.	Product Description	Quantity *	Unit LF, YD2, m, m3, etc.	Heat Number	Category 1 or 2
				Mill/Fabricator #	
606010023	One Way Departure Terminal Section	1.0	Ea	See Below:	1
606010030	Guardrail Steel	187.5	Lf	See Below:	1
	Guardrail			240943 North Star	1
	Guardrail			31848300 Steel Dynamics	1
	Guardrail			B902825 Steel Dynamics	1

*Only list actual quantities delivered to the job site.

#Provide name of steel producing/recycling mill if Category 1 item or fabricator authenticating domestic material if Category 2 item.

Submit all required documentation with this form. See the back of this form for general guidance on “Buy America” documentation. Refer to **MT 601 of the Montana Materials Testing Manual** for steel product category identification as well as sampling & testing requirements.

Contractor's Statement of Certification

Domestic Material: I hereby certify that all manufacturing processes, including initial melting/recycling and application of coatings, occurred in the United States for the above listed materials and that those materials do meet all other requirements as set forth in the plans and specifications.

Non-Domestic Material: I hereby certify that the above listed materials do meet the requirements as set forth in the plans and specifications with the exception that all or part of the manufacturing process may have occurred outside the United States. The material is considered non-domestic. The cost of this material, including delivery to the project, is _____.

By Missouri River Contractors, LLC Title Vice President
(Prime Contractor's Name - Typed or Printed)

[Signature] Nick J. Moore Date 9/10/19
(Prime Contractor's Signature)

Number of Item pages attached 1

Following Guardrail heat #240943...

“Old” Form 406

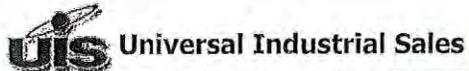
- Filled out according to instructions

Jobsite
(Form 406)

- Lists Heat #240943
- Lists Mill
- Lists **Final** Fabricator
- Signed by Prime Contractor



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 Phone (801) 785-0505
 www.uisutah.com

Material Certificate Of Compliance

Page 1/1

Order Number: 70535 Date: 07/31/18 Customer PO Number: 972-20

Customer:	Ship To:
Mountain West Holding Company	Mountain West Holding Company
P.O. Box 31793	C/O Rocky Mountain Traffic Control
Billings MT 59107	1107 Howard Ave
	Butte MT 59701

Project ID: (GR) Rocker Interchange

Project Description:
 (GR) Montana, Call #102 Rocker Interchange Improvements NHFP 15-2(103)122 Contract No. 05618

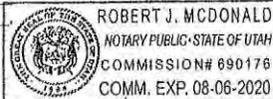
LINE	QTY	UNIT	Description
1	1	EACH	12 / 12'-6" / 6'-3" W-Beam Anchor Panel 8 Hole Std.
2	1	EACH	Montana One-Way Departure Terminal Section Includes: Cable Assembly, Terminal Flare & Hardware ONLY for steel post Installation (Excludes Anchor Panel) (Excludes Steel Line Posts & CRT Wood Posts)
17	1	EACH	606 250 000 Montana SKT 350 Hinged Steel Post End Terminal Complete 50'-0" System w/ Plastic Blocks
42	175	LF	12 / 25 / 6'-3" Guardrail w/ (10"PB)(1 1/4"SB) Galv. (Posts & Blocks Excluded)
48	46	EACH	(MT) W6 x 8.5 x 6'-0" Post (Punched @ 4", 7", 12")
49	45	EACH	14" Mondo Polymer W-Beam Block w/ Hanger (GB14SH)
50	37.5	LF	12/12'-6"/6'-3" Guardrail w/ (10"PB)(1 1/4"SB) Galv. (Posts & Blocks Excluded)

This is to certify that the materials shipped meet the requirements of the above Contract Specifications and Special Provisions. Guardrail meets the requirements of AASHTO M-180, Type I, II, III, or IV as stamped. Steel Posts meet the requirements of AASHTO M-270 / M-183, ASTM A992-06a: A36 and are Galvanized per ASTM A-123 OR Steel Posts meet the requirements of ASTM A588 (if required per Contract Specifications). Anchor Cable meets the requirements of ASTM 741-11, AASHTO M30. Hardware meets the requirement of AASHTO M-180, ASTM A-307 and/or A-325 or A449 per contract requirements. Galvanized per ASTM A-153. All Steel conforms to AASHTO M-270 / M-183 and the Buy America Act 23 CFR 635.410 and is Melted and Manufactured in the USA. All other Galvanized Materials conform to ASTM A-123 or ASTM A-153. The materials covered by this certification conform to the requirements specified in the contract documents. The Individual signing has the legal authority to bind the manufacturer or supplier of material.

STATE OF UTAH, COUNTY OF UTAH
 Sworn and Subscribed before me

Universal Industrial Sales, Inc.

By *Duffy Pochan*
 this 27 day of August, 2018



By *Duffy Pochan*
 Quality Control

Notary Public

Sign Structures, Bridge Rail, Steel Fabrication,
 Anchor Bolts, Highway Construction Products

"BUY AMERICA" REQUIREMENTS CATEGORY 1 EXAMPLE

Documentation from ~~Distributor/Final~~ Fabricator
 (Universal Industrial Sales)

- ~~Traceable to Subcontractor and Project~~
- ~~Lists Subcontractor (Mountain West Holding Co/Rocky Mountain Traffic Control)~~
- ~~Identifies Project~~
- Lists Materials
- Includes "Melted and Manufactured in USA" statement

Final
 Fabricator

- Includes Heat #240943
- ~~Traceable to Subcontractor~~
- ~~Traceable to Project~~
- Includes M&M statement



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W-BEAM GUARDRAIL MATERIAL TEST REPORT

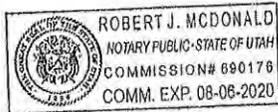
Heat No.	C	Mn	P	S	Se	Co	Cr	Ni	Yield Pts	Tensile Pst	Elong	Class	Type	Description
240941	.19	.73	.013	.004	.01	.11	0.08	0.04	62110	80030	27.8	A	2	12ga W-Beam
240942	.19	.73	.013	.005	.01	.11	0.08	0.04	63330	82210	25.6	A	2	12ga W-Beam
240943	.19	.72	.013	.003	.02	.11	0.08	0.04	61180	79980	25.6	A	2	12ga W-Beam
240944	.19	.73	.012	.004	.01	.11	0.08	0.04	58280	76740	27.6	A	2	12ga W-Beam
B910944	.22	.47	.010	.003	.03	.08	0.04	0.03	67000	86500	22	A	2	12ga W-Beam
B910948	.22	.48	.010	.003	.02	.08	0.05	0.03	64100	87200	22	A	2	12ga W-Beam
B910941	.22	.48	.010	.002	.03	.08	0.06	0.03	69400	91300	20	A	2	12ga W-Beam
B910942	.22	.47	.010	.003	.02	.08	0.05	0.03	68800	90200	18	A	2	12ga W-Beam
B910937	.22	.45	.009	.004	.02	.08	0.04	0.03	68900	94500	20	A	2	12ga W-Beam
B910940	.22	.45	.009	.004	.02	.08	0.04	0.03	70200	92400	19	A	2	12ga W-Beam
B910951	.22	.46	.010	.004	.02	.08	0.04	0.03	66700	88000	20	A	2	12ga W-Beam
B910953	.22	.47	.010	.003	.03	.08	0.04	0.03	62700	86200	19	A	2	12ga W-Beam
B910955	.22	.47	.009	.003	.02	.08	0.03	0.03	63200	84700	21	A	2	12ga W-Beam
B911052	.22	.45	.016	.005	.02	.09	0.05	0.03	64000	86600	23	A	2	12ga W-Beam
B911050	.22	.46	.014	.004	.03	.09	0.05	0.03	65200	87900	20	A	2	12ga W-Beam
242455	.19	.73	.010	.003	.02	.12	0.07	0.04	64280	81920	26.9	A	2	12ga W-Beam
242458	.19	.74	.012	.004	.02	.10	0.08	0.06	63850	82050	26.9	A	2	12ga W-Beam
240940	.19	.73	.014	.002	.02	.13	0.08	0.07	62540	80650	25.8	A	2	12ga W-Beam
241198	.19	.74	.011	.003	.01	.09	0.06	0.04	61340	79270	24.0	A	2	12ga W-Beam
242454	.19	.74	.011	.001	.03	.10	0.08	0.04	62850	81780	22.3	A	2	12ga W-Beam

This is to certify that the above chemical analysis and physical properties are representative of the guardrail shipped and that guardrail meets the requirements of AASHTO M-180, Type I, II, III or IV as stamped. We further certify that Type 1 and 2 panels have been galvanized in accordance with AASHTO M-180.

W-BEAM GUARDRAIL WAS
MELTED AND MANUFACTURED IN THE UNITED STATES OF AMERICA
IN ACCORDANCE WITH THE "BUY AMERICA" ACT.

Signed By:
Buffy Pollard
Universal Industrial Sales, Inc.
Quality Control
Buffy Pollard
Printed Name

State of Utah, County of Utah
Sworn and Subscribed Before Me
By *Buffy Pollard*
This 27 day of August, 2019
Robert J. McDonald
Notary Public



“BUY AMERICA” REQUIREMENTS CATEGORY 1 EXAMPLE

Documentation from **Distributor/Final Fabricator**
(continued)

- Lists Heat #240943

Final
Fabricator

- Includes Heat #240943
- ~~Traceable to Subcontractor~~
- ~~Traceable to Project~~
- Includes M&M statement



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Certified Test Report

12/16 STD PANELS

NORTH STAR BLUESCOPE STEEL LLC
 6767 County Road 9
 Delta, Ohio 43515
 Telephone: (888) 822-2112

Customer: Universal Industrial Sales, Inc.

Pleasant Grove, UT 84062
 Customer P.O.: 26142
 Cust. Ref/Part # CO10.096

Order # 435409
 Line Item # 1
 Heat # 240943
 Coil # 1886763

Ord Width (mm/in) 1444.625 / 56.875 Weight (kg/lb) 20189 / 44509
 Ord Gauge (mm/in) 2.438 / 0.096
 Material Description 1018 CQ Modified, Guardrail Type 2
 Production Date/Time Jun 23 2019 5:01AM

Heat Chemical Analysis (wt%)

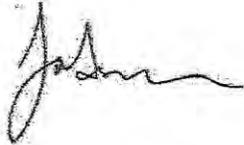
Type	C	Mn	P	S	Si	Al	Cu	Cr	Ni	Mo	Sn	N	B	V	Nb	Ti	Ca	Pb
Heat	0.19	0.72	0.013	0.003	0.02	0.02	0.11	0.08	0.04	0.01	0.00	0.005	0.0000	0.002	0.000	0.000	0.001	0.000

Mechanical Test Report

	Yield Strength	Tensile Strength	% Elongation in 2 inches
Tail	61,190 psi / 422 MPa	79,980 psi / 551 MPa	25.6%

This hot rolled steel has been produced to conform to DIN EN 10254:2006 2.1 and has been manufactured to a fully killed fine grain practice. This hot rolled steel has been produced and tested in accordance with each of the following applicable standards: ASTM E1806-09, ASTM E415-14, ASTM A751-14, ASTM 1370-14, JS Z2201:1998, JS Z2241:2011, Pressure Equipment Directive (PED) 2014/68/EU, Annex 1, Paragraph 4.3 Compliant. This report certifies that the above test results are representative of those combined in the records of North Star BlueScope Steel LLC for the material identified in this test report and is intended to comply with the requirements of the material description. North Star BlueScope Steel LLC is not responsible for the inability of this material to meet specific applications. Any modifications to this certification as provided negates the validity of this test report. All reproductions must have the written approval of North Star BlueScope Steel. This product was manufactured, melted, cast, and hotrolled (min. 3:1 reduction ratio), entirely within the U.S.A. at North Star BlueScope Steel LLC, Delta, Ohio. This material was not exposed to Mercury or any alloy which is liquid at ambient temperature during processing or while in North Star BlueScope Steel LLC possession. Test equipment calibration certificates are available upon request. NIST traceability is established through test equipment calibration certificates which are available upon request. Uncertainty calculations are calculated in accordance with NIST standards and are maintained at a 4:1 ratio in accordance with NIST standards. Uncertainty data is available upon request.

John Meece



Manager Quality Assurance and Technology

Date Issued: Jun 25, 2019 13:34:18
 Revision#: 01

“BUY AMERICA” REQUIREMENTS CATEGORY 1 EXAMPLE

Documentation from Mill (North Star)

- Traceable to **Distributor/Final** Fabricator
- Lists Heat #240943
- Lists **Distributor/Final** Fabricator
- Includes “Melted and Manufactured in USA” statement

Mill Test Report

- Includes Heat #240943
- Traceable to **Final** Fabricator
- Includes M&M statement

Steel Mill



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“BUY AMERICA” REQUIREMENTS CATEGORY 1 EXAMPLE

MDT Contract #: 05618 Project Name: Rocker Interchange Improvements

The Materials listed herein; furnished to MDT for use in the construction of the above referenced project by

Missouri River Contractors, LLC 3384 E US-12 Helena, MT 406-443-2524
(Name of Prime Contractor) (Address) (City, State) (Phone)

have originated and/or been fabricated at the mills and fabricators indicated below.

MDT Bid Item No.	Material Code (Material Description)	Quantity	Unit: LF, yd ² , tons, etc.	Heat Number	MT 801 Category 1 or 2
				Mill*	
				Final Fabricator*	
606010023 One Way Departure	705.01.01.01 (w-beam)	1	Each	31848300	1
				Steel Dynamics	
				Universal Industrial Sales	
	705.01.01.01 (w-beam flare)			225907	1
				North Star	
				Universal Industrial Sales	
	705.01.05.01 (posts)				2
				Universal Industrial Sales	
606010030 Metal Guardrail	705.01.01.01 (w-beam)	187.5	LF	B902825	1
				Steel Dynamics	
				Universal Industrial Sales	
	705.01.01.01 (w-beam)			240943	1
				North Star	
				Universal Industrial Sales	

*Category 1: Provide the [steel producing/recycling mill](#) and the [final fabricator](#) of the material. Provide heat number(s). Heat number(s) must be traceable from the mill through any intermediate fabricators, including any brokers, to the final fabricator. Heat numbers are not required to be traced through brokers after final fabrication.

*Category 2: Provide the [final fabricator](#) who is certifying domestic material and manufacture. Mills/Heat numbers are not required.

Item Page

MDT Contract # 05618
 Project Name Rocker Interchange Improvements

MDT Bid Item No.	Material Code (Material Description)	Quantity	Unit: LF, yd ² , tons, etc.	Heat Number	Category 1 or 2
				Mill*	
				Fabricator*	
	705.01.05.01 (post)				2
				Universal Industrial Sales	
606010642 Terminal Section	705.01.01.01 (w-beam)	1	Each	B902825	1
				Steel Dynamics	
				Universal Industrial Sales	
	705.01.05.01 (post)				2
				Universal Industrial Sales	

Same example using the “new” Form 406

- Heat #, Mill, and Final Fabricator on same row as the Material Code/Item number



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“BUY AMERICA” REQUIREMENTS CATEGORY 1 EXAMPLE

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MDT Bid Item No.	Material Code (Material Description)	Quantity	Unit: LF, yd ² , tons, etc.	Heat Number		MT 601 Category 1 or 2
				Mill*	Final Fabricator*	
606010023 One Way Departure	705.01.01.01 (w-beam)	1	Each	31848300	Universal Industrial Sales	1
				Steel Dynamics		
				Universal Industrial Sales		
	705.01.01.01 (w-beam flare)			225907	Universal Industrial Sales	1
				North Star		
				Universal Industrial Sales		
	705.01.05.01 (posts)				Universal Industrial Sales	2
606010030 Metal Guardrail	705.01.01.01 (w-beam)	187.5	LF	8902825	Universal Industrial Sales	1
				Steel Dynamics		
				Universal Industrial Sales		
	705.01.01.01 (w-beam)			240943	Universal Industrial Sales	1
				North Star		
				Universal Industrial Sales		

*Category 1: Provide the [steel producing/recycling mill](#) and the [final fabricator](#) of the material. Provide heat number(s). Heat number(s) must be traceable from the mill through any intermediate fabricators, including any brokers, to the final fabricator. Heat numbers are not required to be traced through brokers after final fabrication.

*Category 2: Provide the [final fabricator](#) who is certifying domestic material and manufacture. Mills/Heat numbers are not required.

Item Page

MDT Contract # 05618
 Project Name Rocker Interchange Improvements

MDT Bid Item No.	Material Code (Material Description)	Quantity	Unit: LF, yd ² , tons, etc.	Heat Number		Category 1 or 2
				Mill*	Fabricator*	
	705.01.05.01 (post)				Universal Industrial Sales	2
606010642 Terminal Section	606.02.00.01 (W-Beam Terminal Section)	1	Each		Universal Industrial Sales	2
New Material Code						

Same example using the “new” Form 406

- Heat #, Mill, and Final Fabricator on same row as the Material Code/Item number
- **AND – ‘new’ Category 2 Material Code for “MASH W-Beam Terminal Section” (as of March 2018)**



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“BUY AMERICA” REQUIREMENTS CATEGORY 1 EXAMPLE

MDT Contract #: 05618 Project Name: Rocker Interchange Improvements

The Materials listed herein; furnished to MDT for use in the construction of the above referenced project by
Missouri River Contractors, LLC 3384 E US-12 Helena, MT 406-443-2524
(Name of Prime Contractor) (Address) (City, State) (Phone)

have originated and/or been fabricated at the mills and fabricators indicated below.

MDT Bid Item No.	Material Code (Material Description)	Quantity	Unit: LF, yd ² , tons, etc.	Heat Number		MT 601 Category 1 or 2
				Mill*		
				Final Fabricator*		
Proposed New Code 606010023 One Way Departure	606.XX.XX.XX (departure section)	1	Each	Universal Industrial Sales		2
				B902825		
606010030 Metal Guardrail	705.01.01.01 (w-beam)	187.5	LF	Steel Dynamics		1
				Universal Industrial Sales		
				240943		
	705.01.01.01 (w-beam)			North Star		1
				Universal Industrial Sales		
	705.01.05.01 (post)			Universal Industrial Sales		2
New Code 606010642 Terminal Section	606.02.00.01 (W-Beam Terminal Section)	1	Each	Universal Industrial Sales		2

*Category 1: Provide the [steel producing/recycling mill](#) and the [final fabricator](#) of the material. Provide heat number(s). Heat number(s) must be traceable from the mill through any intermediate fabricators, including any brokers, to the final fabricator. Heat numbers are not required to be traced through brokers after final fabrication.

*Category 2: Provide the [final fabricator](#) who is certifying domestic material and manufacture. Mills/Heat numbers are not required.

Same example using the “new” Form 406

- Heat #, Mill, and Final Fabricator on same row as the Material Code/Item number
- Shows Category 2 Material Code for “MASH W-Beam Terminal Section”
- Shows potential new Category 2 Material Code for “Departure Section”



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“BUY AMERICA” REQUIREMENTS

Fabrication:

Any changes to the material
after the original mill

- Cutting
- Bending
- Rolling
- Welding
- Coating
- Extruding
- Etc.....



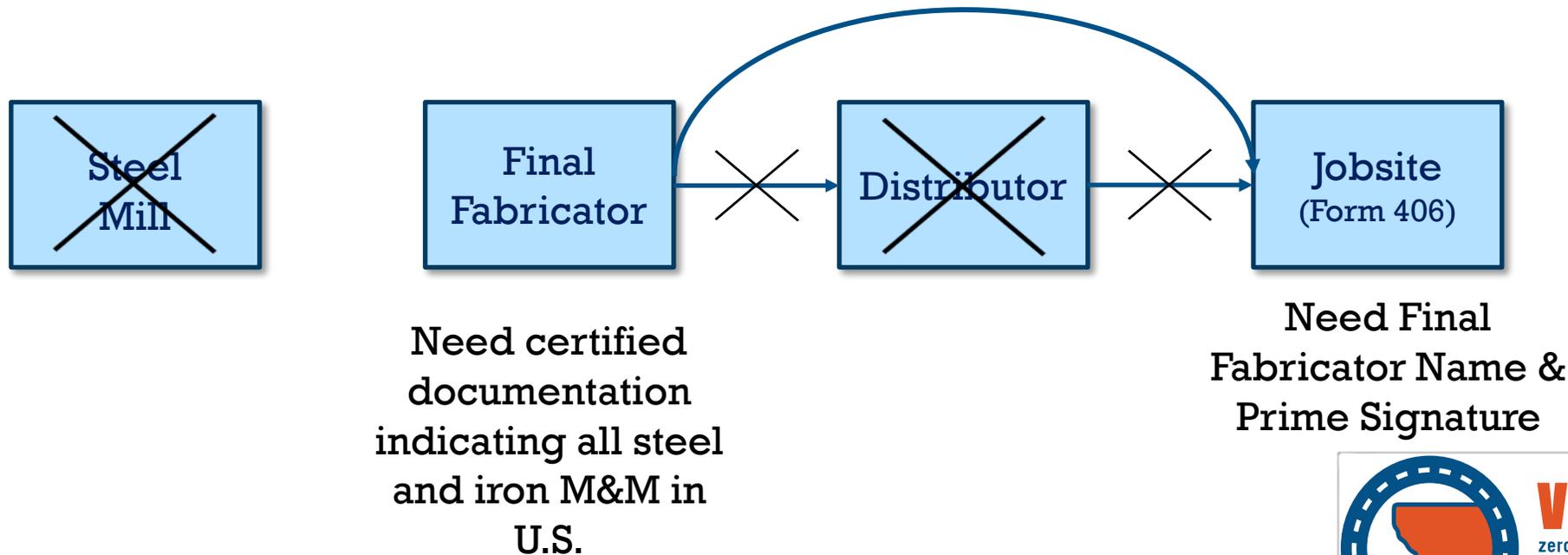
09/25/2018



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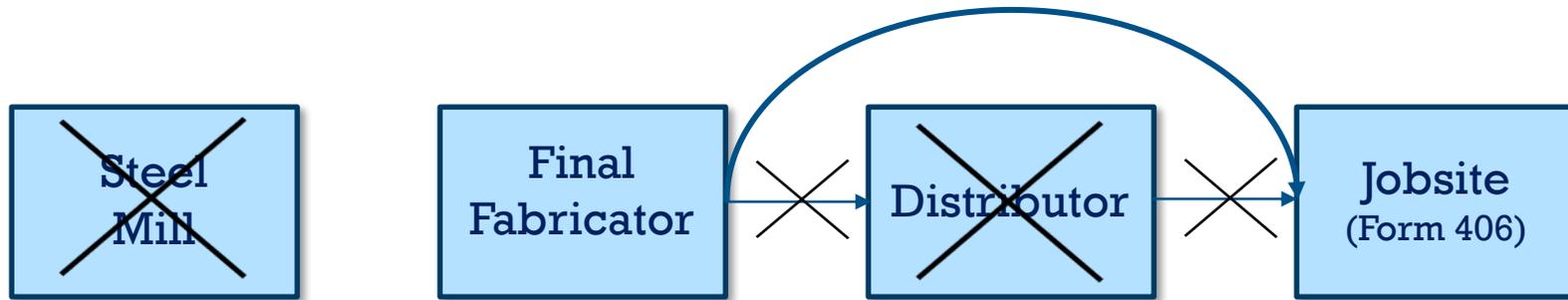
“BUY AMERICA” REQUIREMENTS CATEGORY 2

- Original Mill Test Report **NOT** required to be submitted to MDT but must be maintained by the Final Fabricator (No Heat #'s!!)
- Final Fabricator certifies all manufacturing processes, including coating, for iron and steel materials have occurred in the U.S. (melted, manufactured, & coated in the U.S.) including signature by fabricator representative
- Final Fabricator’s name on Form 406, signed by Prime Contractor



“BUY AMERICA” REQUIREMENTS CATEGORY 2 EXAMPLE

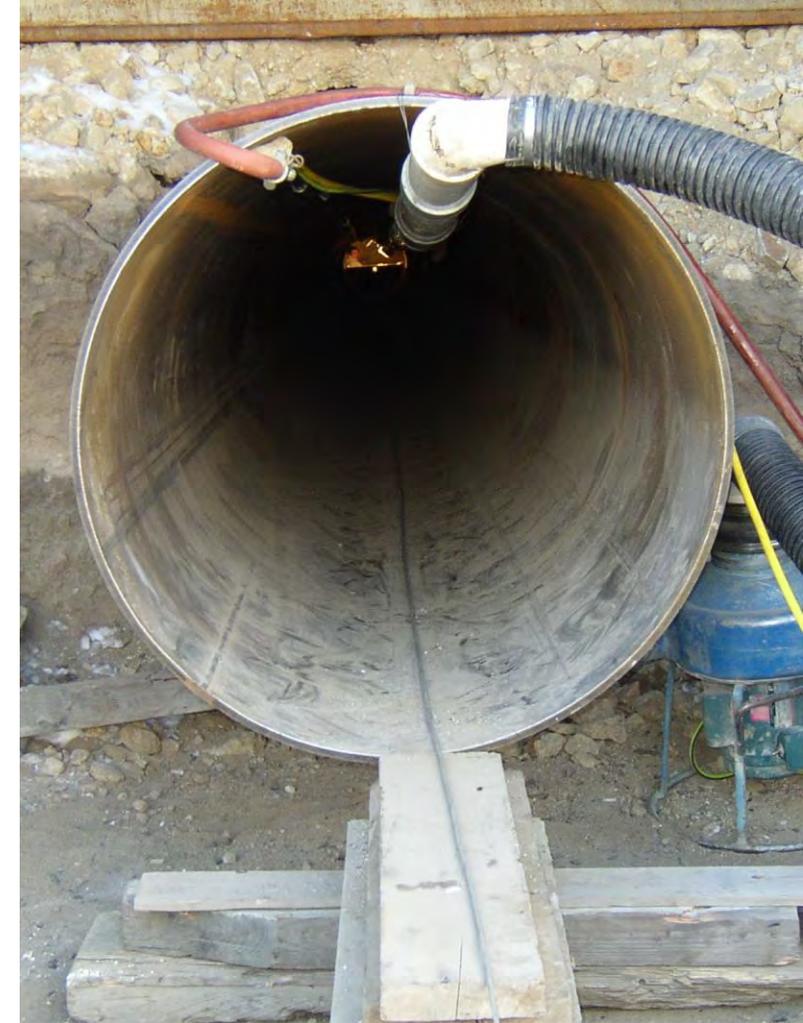
Materials Provided from ~~Distributor~~ Final Fabricator



- ~~Traceable to Distributor~~
- Includes materials
- Includes M&M statement

- ~~Traceable to Subcontractor~~
- ~~Traceable to jobsite~~
- ~~Includes Fabricator~~

- Lists Final Fabricator
- Signed by Prime Contractor



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“BUY AMERICA” REQUIREMENTS CATEGORY 2 EXAMPLE

CONTRACTOR'S CERTIFICATE OF COMPLIANCE FOR MISCELLANEOUS STEEL & IRON ITEMS For Compliance with the Buy America Law and Provision Std. Spec. 106.09, 23 USC Section 313 & 23 CFR 635.410

MDT Project No. NH 17-1(158)23 Project Name Conner – North
The Coral Sales Company PO Box 22385 Portland OR 503-655-6351
97269
(Name of Manufacturer/Supplier) (Address) (City, State) (Phone)
has furnished to Mountain West Holding PO Box 31793 Billings MT 406-256-0199
Company
(Name of Contractor) (Address) (City, State) (Phone)

The following materials for use in the construction of the above referenced project.

MDT Bid Item No.	Product Description	Quantity *	Unit LF, YD2, m, m3, etc.	Heat Number	Category 1 or 2
				Mill/Fabricator#	
619010720	FB S3 x 5.7 QPL Approved	4.0	Ea	Transpo	2
619010722	FB S4 x 7.7 QPL Approved	12.0	Ea	Transpo	2

*Only list actual quantities delivered to the job site.

#Provide name of steel producing/recycling mill if Category 1 item or fabricator authenticating domestic material if Category 2 item.

Submit all required documentation with this form. See the back of this form for general guidance on “Buy America” documentation. Refer to **MT 601 of the Montana Materials Testing Manual** for steel product category identification as well as sampling & testing requirements.

Contractor's Statement of Certification

Domestic Material: I hereby certify that all manufacturing processes, including initial melting/recycling and application of coatings, occurred in the United States for the above listed materials and that those materials do meet all other requirements as set forth in the plans and specifications.

Non-Domestic Material: I hereby certify that the above listed materials do meet the requirements as set forth in the plans and specifications with the exception that all or part of the manufacturing process may have occurred outside the United States. The material is considered non-domestic. The cost of this material, including delivery to the project, is _____.

By Mark Coy
Schellinger Construction Company, Inc. Title Consult. Eng.
(Prime Contractor's Name, Typed or Printed)

Date 3/23/19
(Prime Contractor's Signature)

Number of Item pages attached - 0 -

Following Frangible Breakaway from Transpo...

“Old” Form 406

- Filled out according to instructions

Jobsite
(Form 406)

- Lists **Final** Fabricator
- Signed by Prime Contractor



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MATERIAL CERTIFICATION

CERTIFICATION OF: 16 Ea Type A Break-Safe A14 Assembly with...

Sales Order: 61495

Invoice: 64661

Project #: NH 7-1(158)23

Project Name: Conner - North

Sheri Metschan, Coral Sales Company

Manufacturer: Transpo Industries, Inc.

Consigned To: Mountain West Holding Company

Destination: Your Yard

Bill of Lading # N/A

Date of Shipment: 02/28/19

Distribution:

1 Set: Mountain West Holding Company

1 Set: Coral Sales Company

Attachments: Manufacturer's Certifications

CSC# 030719sm

Coral Sales Company | PO Box 22385 Portland, OR 97269 | www.coralsales.com
main: 800-538-7245 | fax: 503-657-9649

Documentation from Distributor (Coral Sales)

- Traceable to Subcontract, Fabricator, and Project
- Lists Subcontractor
- Lists Fabricator
- Identifies Project

Distributor

Subcontractor

- Traceable to jobsite
- Includes Fabricator



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20 Jones Street
 New Rochelle, NY 10801-6098
 914-636-1000 | 800-321-7870
 Fax: 914-636-1282 | info@transpo.com
 WWW.TRANSPO.COM

Certificate of Compliance

Transpo Industries, Inc. certifies that Break-Safe Model

Supplied To: **CORAL SALES COMPANY**

In The Amount Of: 40 – B/S B525 ASSEMBLY
 100 – 1” “TYPE B” ANCHOR KIT
 70 – BREAK-SAFE A14 ASSY FOR 3”, 4”, 5” S. POST
 100 – 5/8” “TYPE A” ANCHOR KIT
 50 – CPLG SET W/SPEC BOLT LP TYPE ‘A’

Identified By: SO # 24735, PO # 39116, INV # 26914

Shipped: SEPTEMBER 6, 2018 UPS FREIGH

Are essentially the same chemistry, mechanical properties and geometry of those used in the tests accepted by the FHWA in their letter dated January 16, 1997 and will satisfy the dynamic performance requirements of Section 12.5 of the AASHTO Standard Specifications for Structural Supports for Highway Signs, Luminaires, and Traffic Signals, Sixth Edition, 2013.

This certification applies only to the dynamic performance requirements and does NOT apply to the “Additional Requirements” as stated Section 12.5.3 regarding “safe installation practices,” which are the responsibility of the installer.

Transpo Industries, Inc. also certifies that all steel is melted and manufactured in the United States. All mill certification forms from the manufacturer of any steel products used in our products are maintained in our files.

All records and documents pertinent to this certification and not submitted herewith will be maintained available by the undersigned for a period of not less than three years from this date.

Transpo Industries, Inc.

Michael S. Stenko
 CEO

SAFER TRANSPORTATION THROUGH INNOVATION

An Equal Opportunity Employer



“BUY AMERICA” REQUIREMENTS CATEGORY 2 EXAMPLE

Documentation from Fabricator (Transpo)

- ~~Traceable to Distributor~~
- Lists materials (item specs)
- Includes “Melted and Manufactured in US” statement

Final
 Fabricator

- ~~Traceable to Distributor~~
- Includes materials
- Includes M&M statement



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“BUY AMERICA” REQUIREMENTS

Now we’ll discuss a few “special” situations...



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“BUY AMERICA” REQUIREMENTS

“Prefabricated” Steel Items

- Defined as items fabricated from Category I materials (e. g., structural steel, and structural steel tubing) at some point away from the project site
- Items fabricated away from the project may be inspected by the Department at the point of fabrication
- Items inspected at the point of fabrication still require a Form 406 from the Prime Contractor but will be accepted by a certification from the final fabricator, equivalent to Category 2 level documentation
- The certification must indicate “melted and manufactured in U.S.A.” or “all manufacturing processes have taken place in the U.S.A.” and the final fabricator must maintain all supporting documentation.

NEVER ASSUME ITEMS ARE ACCEPTED AT THE POINT OF MANUFACTURE!

THE FORM 406 AND CERTIFICATION MUST BE SUBMITTED TO PROJECT STAFF!



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“BUY AMERICA” REQUIREMENTS

“Prefabricated” Steel Items (Cont.)

- Items fabricated from Category 1 materials (e. g., structural steel and structure steel tubing) away from the project that ***are not*** inspected at the point of fabrication still need to provide Category 1 documentation regardless of the fact they were “prefabricated”.
- MDT reserves the right to determine which items it will inspect at the point of fabrication
 - Bridges and bridge members are always inspected at the point of fabrication
 - Overhead structures may or may not be inspected at the point of fabrication
 - Bridge rail is not usually inspected at the point of fabrication
 - Guardrail is not inspected at the point of fabrication
 - Piling is not inspected at the point of fabrication

NEVER ASSUME ITEMS ARE ACCEPTED AT THE POINT OF MANUFACTURE!

THE FORM 406 AND CERTIFICATION MUST BE SUBMITTED TO PROJECT STAFF!



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“BUY AMERICA” REQUIREMENTS

Precast items

- Defined as items fabricated at a precast or prestressed plant listed on the QPL or certified by PCI, NCPA, or ACPA
- The Department will either inspect the precast item at the plant or inspect the plant periodically
- Precast items still require a Form 406 from the Prime Contractor but ***will*** be accepted by a certification from the final fabricator (precast plant), equivalent to Category 2 level documentation
- The certification must indicate “melted and manufactured in U.S.A.” or “all manufacturing processes have taken place in the U.S.A.” and the final fabricator must maintain all supporting documentation.
- The certification must indicate the designation and number of items covered
 - E.g., 24” RCP, 10’ X 7’ RCB, Type I Drop Inlet, Type M-72 Beam, etc.

NEVER ASSUME ITEMS ARE ACCEPTED AT THE POINT OF MANUFACTURE!

THE FORM 406 AND CERTIFICATION MUST BE SUBMITTED TO PROJECT STAFF!



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“BUY AMERICA” REQUIREMENTS

Precast items (Cont.)

- Certification must indicate product(s) meet all MDT specifications for items indicated
 - “Meets Contract/Project Specifications” (Must include Project Name/Number), or
 - “Meets AASHTO XYZ” (Spec called for in MDT Standard Specifications), or
 - “Meets MDT Specifications (Only applicable if an item is obviously a standard item)
- MDT inspects precast plants periodically or during production to ensure documentation and test results are maintained in order to allow a more general certification
- Items from plants not listed on the QPL or not certified by PCI, NCPA, or ACPA are considered “cast-in-place” and all materials must be sampled, tested, and accepted according to the individual material requirements in MT 601, e.g., barrier rail – See Section 554 and 605 in the Spec Book

NEVER ASSUME ITEMS ARE ACCEPTED AT THE POINT OF MANUFACTURE!

THE FORM 406 AND CERTIFICATION MUST BE SUBMITTED TO PROJECT STAFF!



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“BUY AMERICA” REQUIREMENTS

Rebar

- Follow guidance in Rebar Memo https://www.mdt.mt.gov/other/webdata/external/const/const_memo/2021/REBAR-CERTS-BUY-AMERICA.pdf
- Rebar is Category 2
- Rebar mill must be listed on the QPL
- Rebar epoxy coater must be listed on the QPL
- Still requires a Form 406 from the Prime Contractor
- Mill certs and heat #'s are not required to be submitted, however the name and location of the mill and epoxy coater must be indicated on the Final Fabricator's certification
- Size and specification of Rebar must also be indicated on Final Fabricator's certification
- The certification must indicate “melted and manufactured in U.S.A.” or “all manufacturing processes have taken place in the U.S.A.”, the final fabricator must maintain all supporting documentation, and the certification must include the name of the individual making the statement



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“BUY AMERICA” REQUIREMENTS

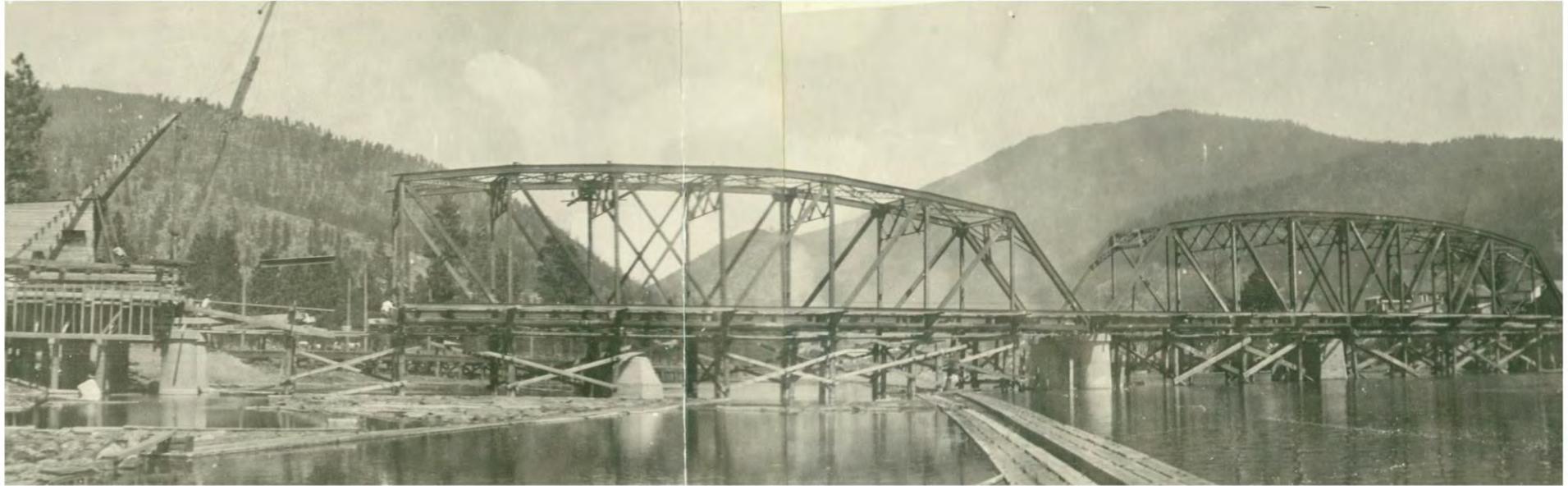
In Conclusion...

- This presentation has focused primarily on “Buy America” Documentation
- Always remember material acceptance documentation also required – ensure material meets specifications for design and quality
- Examples:
 - Rebar (A615, M 31, A1035, etc.), galvanizing (A123, A153, M 111), epoxy (A775), steel (M 270, A709, etc.), guardrail (M 180), section of MDT spec book, other AASHTO or ASTM spec., etc.



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“BUY AMERICA” REQUIREMENTS



THANK YOU FOR WATCHING!!

Ross “Oak” Metcalfe – State Materials Engineer – rmetcalfe@mt.gov – 406-444-9201

Paul Bushnell – Inspection Operations Supervisor – pbushnell@mt.gov – 406-444-6267

Jim Davies – Materials Bureau Chief – jdavies@mt.gov – 406-444-3424



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