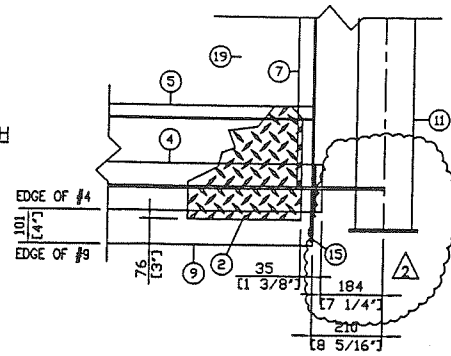
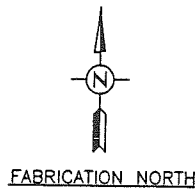


**SKID
DRAWING**

i) MTR's

**Job# 30600
Free Water Knock Out
Skid**



DETAIL #1
SCALE: 1:10
TYP. 2 SIDES

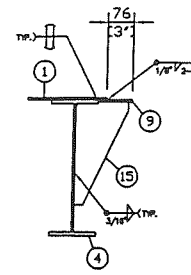
APPROVED FOR
CONSTRUCTION

DATE: DEC 28 2018

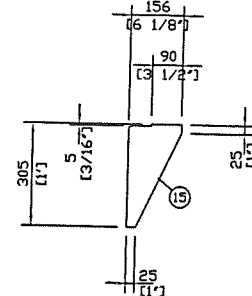
SIGNED: [Signature]

REVISED
DESTROY ALL PREVIOUS COPIES

VIEW 'B-B' ITEM #16
SCALE: 1:10



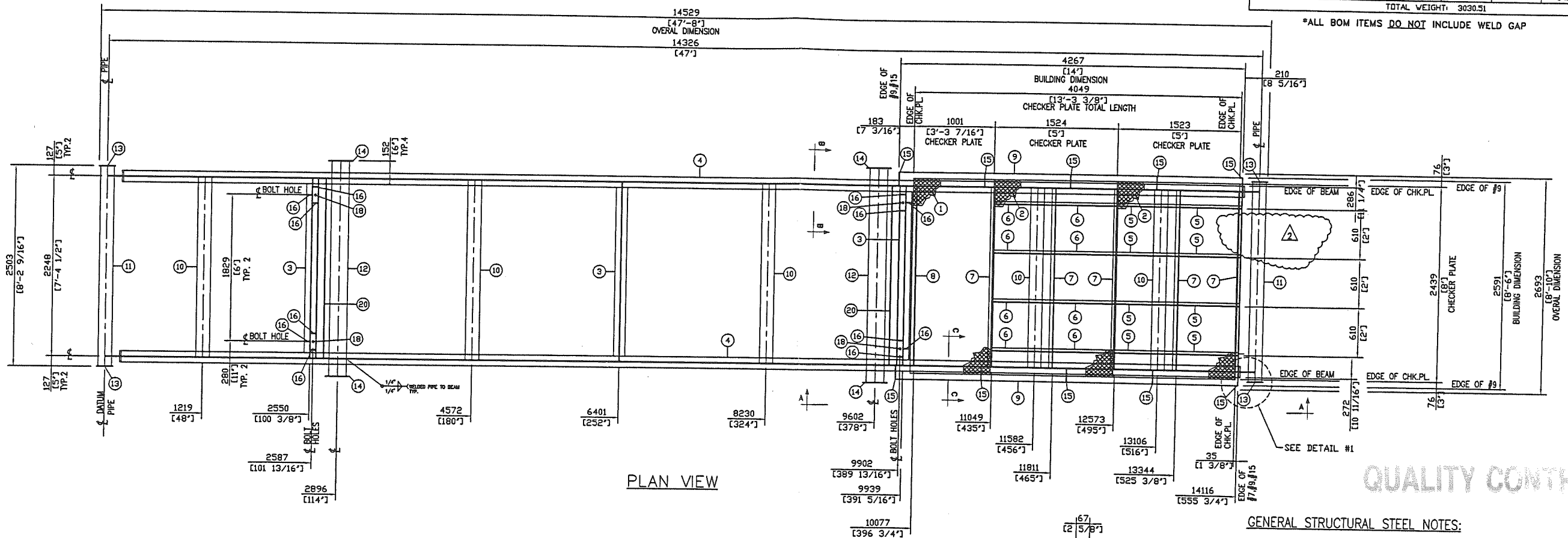
VIEW 'C-C'
SCALE: 1:10



ITEM #15 DETAIL
SCALE: 1:10

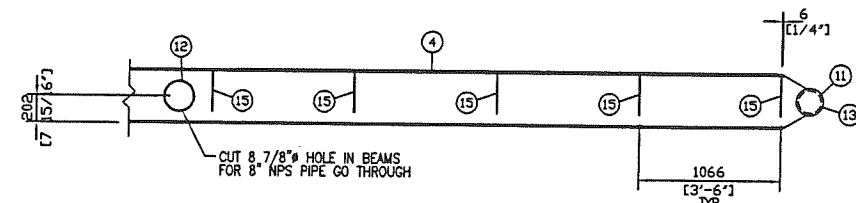
BILL OF MATERIAL							
MARK	QTY	MEMBER	LENGTH(mm)	WIDTH(mm)	MATERIAL	WEIGHT(kg)	HEAT#
1	1	3/16-Checkr-PL	2439	1001	SA-36	92.65	
2	2	3/16-Checkr-PL	2439	1524	SA-36	278.02	
3	3	V16x31	2241		G-44W/50W	300.18	
4	2	V16x31	14326		G-44W/50W	1280.94	
5	8	C4x5.4	766		G-44W	46.63	
6	8	C4x5.4	757		G-44W	48.25	
7	5	C6x8.2	2241		G-44W	80.64	
8	1	L2x2x0.250	2241		G-44W	10.68	
9	2	PLATE-1/4	4267	102	SA-36	43.44	
10	5	6" PIPE 0.432" WT, DRV	2241		SA-53B	316.32	
11	2	6" PIPE 0.432" WT, DRV	2490		SA-53B	140.59	
12	2	8" PIPE 0.500" WT, DRV	2680		SA-53B	227.75	
13	4	PLATE-1/4	9203		SA-36	6.48	
14	4	PLATE-1/4	305	156	SA-36	14.56	
15	10	PLATE-1/4	305		SA-36	14.3	
16	12	PLATE-1/4	377	67	SA-36	22.5	
17	-	-	-	-	-	-	
18	4	1" HEX BOLT x 3" LG WITH NUT	-	-	GR. 8	-	
20	2	C4x5.4	2241		G-44W	34.81	
TOTAL WEIGHT:						3030.51	

*ALL BOM ITEMS DO NOT INCLUDE WELD GAP

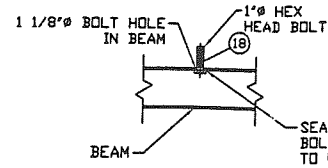


PLAN VIEW

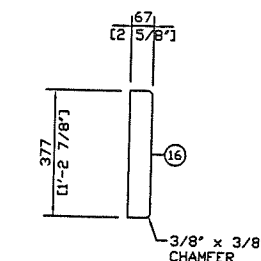
QUALITY CONTROL



VIEW 'A-A'
SCALE: 1:25
TYP. 2 SIDES



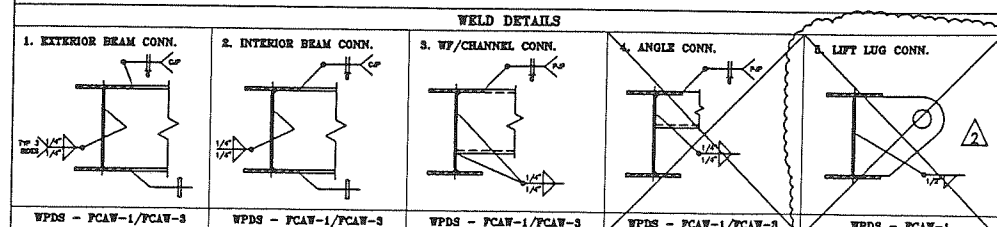
SADDLE BOLT CONNECTION DETAIL
NTS



ITEM #16 DETAIL
SCALE: 1:10

GENERAL STRUCTURAL STEEL NOTES:

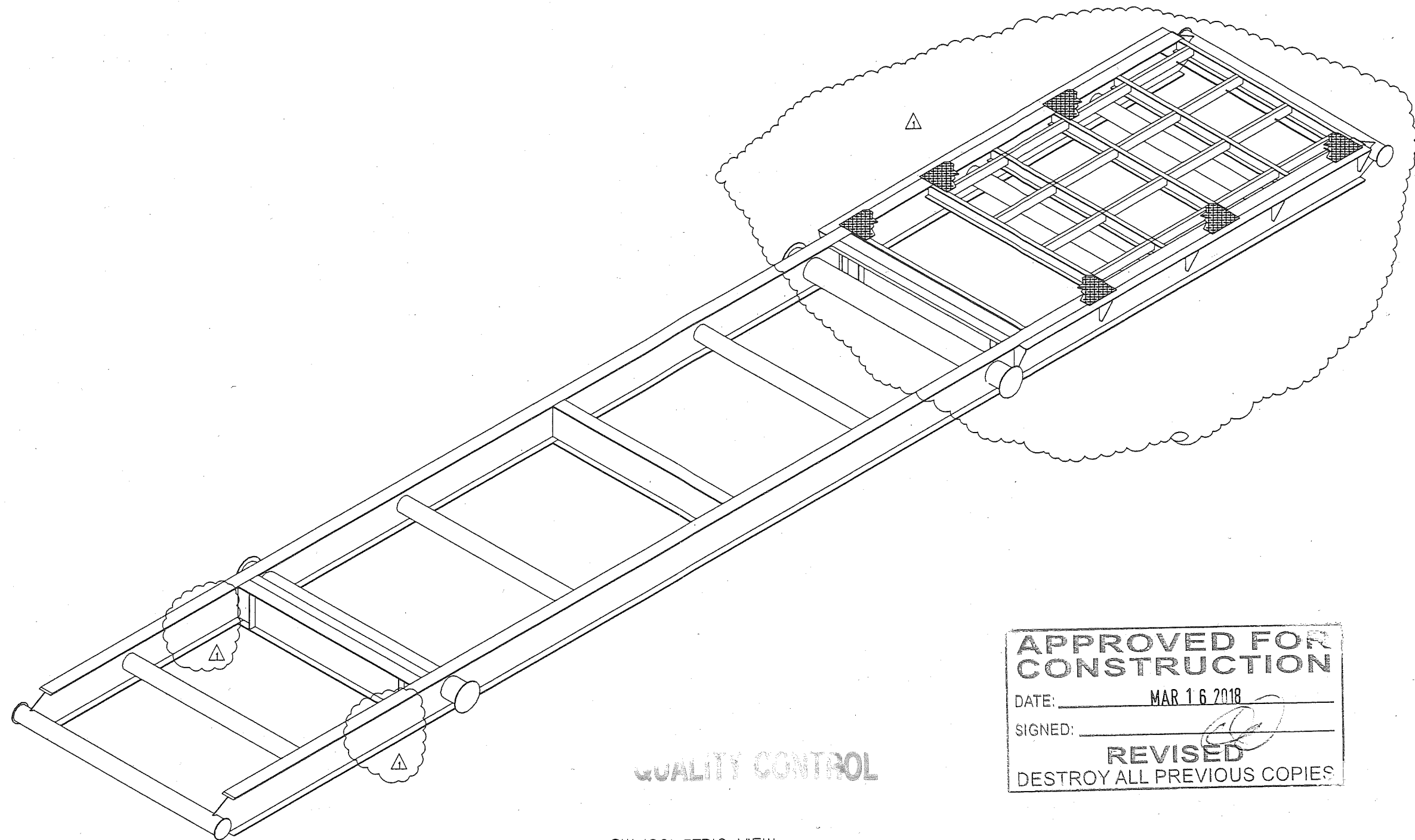
- ALL DIMENSION ARE IN INCHES UNLESS NOTED. ALL ELEVATIONS ARE REFERRED FROM TOP OF SKID FLOOR.
- SURFACES AND EDGES TO BE WELDED SHALL BE SMOOTH, UNIFORM AND FREE FROM FINIS, CRACKS, ALSO WITH IN 2" OF ANY WELD LOCATION, FREE FROM LOOSE OR THICK SCALE, SLAG, RUST, PAINT, GREASE, MOISTURE etc. W59-13 5.3.1
- SKID FRAMING SHALL BE OF SOLID WELDED CONSTRUCTION, 1/4" CONTINUOUS FILLET WELDS, COPE ALL FRAMING MEMBERS INTO ONE ANOTHER UNLESS NOTED OTHERWISE.
- CHECKERED PLATE SEAMS TO BE SEAL WELDED CONTINUOUSLY ON TOP SIDE, STITCH WELDED TO UNDERSIDE AND PERIMETER USING 3/16" FILLETS 2" AT 12" INTERVALS, FCW-1.
- CLEAN ALL STEEL SURFACES PRIOR TO PAINTING TO SSPC-SP3 (MECHANICALLY CLEANED)
- PAINT: - ONE COAT OF SHOP PRIMER
- ONE COAT OF FINISH DTM F34 WARM GRAY
- WEIGHT OF STRUCTURAL STEEL SKID: 7,549 lbs (3,424 kg)
- SHIPPING DIMENSIONS: 47'-8" W x 8'-10" Lg
- FULL PEN WELDS ON MAIN MEMBERS.
- STRUCTURAL STEEL SKID IS DESIGNED TO 4-POINT LIFT.
- 1/8" FABRICATION DIMENSIONAL TOLERANCE.



ENGINEER'S STAMP			
2	REVISED AS NOTED	LL 18-12-28	BX DG
1	REMOVED ITEM #17 AND AS NOTED	EB 18-03-15	BX DG
0	ISSUED FOR CONSTRUCTION	EB 18-03-14	BX DG
REV	DESCRIPTION	BY	DATE

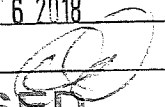
DRAWN BY CHKD BY APP'D BY CAD REF 30600-SKD-01.DWG		EB BX DG AS SHOWN	18-03-14 18-03-14 18-03-14	CLIENT STOCK
TITLE 8'-0"OD X 30'-0"S/S 75PSI MAWP FWKO STRUCTURAL STEEL - PLAN VIEW		JOB NO. 30600	DRAWING NO. 30600-SKD-01	REV 2

The information contained in this drawing is the confidential property of Platinum Energy Services ULC. No part thereof shall be reproduced or communicated to a third party without written authorization from Platinum Energy Services ULC.



QUALITY CONTROL

SW ISOMETRIC VIEW

APPROVED FOR CONSTRUCTION	
DATE:	MAR 16 2018
SIGNED:	
REVISED	
DESTROY ALL PREVIOUS COPIES	

FOR SHOP INFORMATION ONLY

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Customer Name

PLATINUM ENERGY SERVICES LLC

Customer PO#

C1270271

Shipper No

1243311

Heat Number

SE18100576

NUCOR**NUCOR STEEL SEATTLE, INC.****Mill Certification**

2/26/2018

MTR #: S1-361470
Nucor Bar Mill Group
2424 SW Andover
SEATTLE, WA 98106-1100
(206) 933-2222
Fax: (206) 933-2207

Sold To: VARSTEEL LTD
#330 220-4 ST S
LETHBRIDGE AB T1J 4J7
CANADA
(403) 279-7030
Fax: (403) 327-6637

Ship To: VARSTEEL CO LTD - TRUCK
55 DUFFERIN PL SE
CALGARY AB T2C 4W3
CANADA
(403) 279-7030
Fax: (403) 327-6637

Customer P.O.	CY-1025442	Sales Order	344812.19
Product Group	Merchant Bar Quality	Part Number	5325020024004W0
Grade	A36/A529GR50/CSA44W/50W	Lot #	SE1810057601
Size	1/4x2" Flat	Heat #	SE18100576
Product	1/4x2" Flat 20' A36/A529-50/44W/50W	B.L. Number	S1-532660
Description	A36/A529-50/44W/50W	Load Number	S1-361470
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 2/3/2018 Melt Date: 2/2/2018 Qty Shipped LBS: 9,798 Qty Shipped Pcs: 288

ASTM A36/A36M-12, A709/709M-13 GR36, ASME SA36-10 Ed '11 Ad.
ASME SA36-2010 EDITION-2011 ADDENDA
ASTM A709/A709M-13 GR 36 [250]

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
0.16%	0.96%	0.012%	0.035%	0.18%	0.28%	0.09%	0.06%	0.020%	0.0120%	0.001%

Yield 1: 55,145psi

Tensile 1: 76,102psi

Elongation: 29.7% in 8"(% in 203.3mm)

Yield 2: 54,558psi

Tensile 2: 75,942psi

Elongation 28.1% in 8"(% in 203.3mm)

Weight Variation 000.0%

Specification Comments: MEETS THE REQUIREMENTS OF ASTM A36/A36M-12, ASTM A529/529M-05 GR50, CSA G40.21-13 GR44W(300W)/GR50W(350W).
MEETS REPORTING REQUIREMENTS OF EN10204 SEC 3.1

Nucor - Seattle is I.S.O. 9001, 14001 and ABS certified All manufacturing processes of the steel materials in this product, including melting, have occurred within the United States. Mercury, in any form, has not been used in the production or testing of this material. Meets (FTA) Buy America Requirements (49 C.F.R. part 661) PROPOSITION 65 WARNING: This product contains a chemical known to the State of California to cause cancer and/or birth defects or other reproductive harm. For more information, please call 206-933-2222. This material is free of HG contamination and is ROHS compliant. Manufactured in the US and complies with the Buy American Act. No weld repair was performed. Parts meet the requirements of the purchase order and have been produced under Nucor Steel Seattle quality manual rev A2 dated 10/21/2015

2x1/4 FB

Erik Nissen

Division Metallurgist

Page 5 of 9

Customer Name**Customer PO#****Shipper No****Heat Number**

PLATINUM ENERGY SERVICES UI C1270271

1243311

785934_1

Atlas Tube Canada ULC
200 Clark Street
Harrow, Ontario, Canada
N0R 1G0
Tel: (519) 738-5000
Fax: (519) 738-3537



Ref.B/L: 80794562
Date: 11.28.2017
Customer: 1921

MATERIAL TEST REPORT**Sold to**

Varsteel Calgary Ltd.
10220 - 52nd Street SE
CALGARY AB T2C 4M2
CANADA

Shipped to

Varsteel C/O CDC CN(Rail)
10220 - 52nd Street SE
CALGARY AB J4G 1E6
CANADA

Material: 1.5x1.5x188x24"0(8x8).-CSA-D**Material No:** 0150151882400-DCSA**Made in:** USA**Melted in:** Canada**Sales order:** 1226586**Purchase Order:** CY-1020144 (OD)

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
786061	0.190	0.780	0.006	0.006	0.008	0.044	0.033	0.002	0.004	0.014	0.028	0.002	0.002	0.000	0.005

Bundle No	PCs	Yield	Tensile	Eln.2In	Certification	CE: 0.33
M301037207	64	065994 Psi	076100 Psi	24.5 %	CSA G40.21-13 50W CLASS C	

Material Note:**Sales Or.Note:****Material:** 2.0x2.0x250x20"0(10x5).-CSA-D**Material No:** 0200202502000-DCSA**Made in:** USA**Melted in:** Canada**Sales order:** 1222923**Purchase Order:** CY-1020144 (OD)

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
785934_1	0.170	0.790	0.007	0.007	0.013	0.053	0.031	0.002	0.004	0.012	0.035	0.002	0.002	0.000	0.005

Bundle No	PCs	Yield	Tensile	Eln.2In	Certification	CE: 0.31
M301036591	50	068533 Psi	076502 Psi	25.8 %	CSA G40.21-13 50W CLASS C	

Material Note:**Sales Or.Note:****Material:** 2.0x2.0x250x20"0(10x5).-CSA-D**Material No:** 0200202502000-DCSA**Made in:** USA**Melted in:** Canada**Sales order:** 1227209**Purchase Order:** CY-1020144 (OD)

Heat No	C	Mn	P	S	Si	Al	Cu	Cb	Mo	Ni	Cr	V	Ti	B	N
785934_1	0.170	0.790	0.007	0.007	0.013	0.053	0.031	0.002	0.004	0.012	0.035	0.002	0.002	0.000	0.005

Bundle No	PCs	Yield	Tensile	Eln.2In	Certification	CE: 0.31
M301036594	50	068533 Psi	076502 Psi	25.8 %	CSA G40.21-13 50W CLASS C	

Material Note:**Sales Or.Note:**

2x2 x 1/4 HSS

Jason Richard
Jason Richard

Authorized by Quality Assurance:

The results reported on this report represent the actual attributes of the material furnished and indicate full compliance with all applicable specification and contract requirements.
CE calculated using the AWS D1.1 method.



Customer Name

Customer PO#

Shipper No

Heat Number

PLATINUM ENERGY SERVICES UI C1270271

1243311

A7274

BL No. SH0000016648
 Destination VARSTEEL LTD CALGARY
 Supplier VARSTEEL LTD



MILL CERTIFICATE
ORIGINAL

M/C No. MC0000015283
 Date 02/23/2018
 THIS PIPE AND TUBE MADE IN U.S.A.

MARUCHI OREGON STEEL TUBE, LLC
 8735 NORTH HARBOR GATE STREET
 PORTLAND, OREGON 97203
 TEL (503) 737-1200 FAX (503) 737-1201

SPEC	SIZE	CUSTOMER PO NO	No of PCS	Heat No	Chemical Composition (Ladle Analysis)											Tensile Test		Hydrostatic Test	Bending Test	Flattening Test	Remarks
			Calculated Wt(LBS)		C (%)	SI (%)	Mn (%)	P (%)	S (%)	Cu (%)	NI (%)	Cr (%)	Mo (%)	V (%)	Yield Strength (PSI)	Tensile Strength (PSI)	Elongation (%)	Pressure (PSI)	Result		
1	CSA G40.21 360W / ASTM A500-13 GRADE B&C		12	A7263	15	21	89	14	6	10	50	20	0	3	63500	75800	36				SA0000018386
	4IN x 4IN x 0.25IN x 48FT		7.033																		
	CY-1023390																				
2	CSA G40.21 360W / ASTM A500-13 GRADE B&C		36	A7274	15	22	86	16	5	10	50	20	0	4	66600	79600	34				SA0000018338
	4IN x 4IN x 0.25IN x 20FT		8.791																		
	CY-1023786																				
3	CSA G40.21 360W / ASTM A500-13 GRADE B&C		24	A7274	15	22	86	16	5	10	50	20	0	4	66600	79600	34				SA0000018412
	4IN x 4IN x 0.25IN x 40FT		11.722																		
	CY-1024027																				
4	CSA G40.21 360W / ASTM A500-13 GRADE B&C		24	A7277	14	21	86	15	5	10	50	20	0	4	61900	76500	37				SA0000018412
	4IN x 4IN x 0.25IN x 40FT		11.722																		
	CY-1024027																				
5	CSA G40.21 360W / ASTM A500-13 GRADE B&C		16	A6807	14	23	89	14	6	10	50	20	0	4	81300	78000	36				SA0000018412
	8IN x 3IN x 0.25IN x 48FT		10.683																		
	CY-1024027																				
6	CSA G40.21 360W / ASTM A500-13 GRADE B&C		6	A7071	14	25	88	13	7	10	50	20	0	3	62800	77400	37				SA0000018412
	6IN x 6IN x 0.375IN x 48FT		7.911																		
	CY-1024027																				

We hereby certify that the material described herein conforms fully to the said specification.

Remarks:

MARUCHI OREGON STEEL TUBE, LLC

(Quality Control)

4 x 4 x 1/4 HSS

Customer Name

Customer PO#

Shipper No

Heat Number

PLATINUM ENERGY SERVICES UI C1270271

1243311

55053157



US-ML-CARTERSVILLE
384 OLD GRASSDALE ROAD NE
CARTERSVILLE, GA 30121
USA

CUSTOMER SHIP TO
VARSTEEL LTD
55 DUFFERIN PL SE
CALGARY, AB T2C 4W3
Canada

CUSTOMER BILL TO
VARSTEEL LTD
220 4TH ST S
LETHBRIDGE, AB T1J 4J7
Canada

SALES ORDER
6067298/000010

CUSTOMER MATERIAL N°

CUSTOMER PURCHASE ORDER NUMBER
CY-1024233

BILL OF LADING
1321-0000104985

DATE
02/03/2018

GRADE
A992/A572-50

SHAPE / SIZE
Wide Flange Beam / 4 X 13# / 100 X 19.3

DOCUMENT ID:
0000000000

LENGTH
20'00"

PCS
54

WEIGHT
14,040 LB

HEAT / BATCH
55053157/08

SPECIFICATION / DATE OF REVISION
ASTM A6-17
ASTM A709-17
ASTM A992-11 (2015), A572-15
CSA G40.21-13 345N/M

CHEMICAL COMPOSITION

C %	Mn %	P %	S %	Si %	Cr %	Mo %	Ni %	Cu %	Nb %	V %
0.14	0.92	0.012	0.019	0.20	0.07	0.029	0.12	0.30	0.008	0.001

MECHANICAL PROPERTIES

YS MPa	UTS MPa	Y/T in	G/L in
59000	76400	0.770	8.000
56600	75100	0.750	8.000

MECHANICAL PROPERTIES

Elong %
21.90
20.30

COMMENTS / NOTES

4 @ 13 WF

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the billets, was melted and manufactured in the USA. CMTR complies with EN 10204 3.1.

BIJASKAR VALAMANCHILU
QUALITY DIRECTOR

Phone: (409) 769-1014 Email: Bhaskar.Valamanchilu@gerdau.com

YAN WANG
QUALITY ASSURANCE MGR.

Phone: (770) 387 5718 Email: yan.wang@gerdau.com

Customer Name

PLATINUM ENERGY SERVICES UI C1270178

Customer PO#

Shipper No

1239153

Heat Number

56139555



US-ML-JACKSONVILLE

16770 Rebar Road
JACKSONVILLE, FL 32234
USA

CERTIFIED MATERIAL TEST REPORT

Page 1/1

CUSTOMER SHIP TO		CUSTOMER BILL TO		GRADE	SHAPE / SIZE	DOCUMENT ID:
VARSTEEL LTD 55 DUFFERIN PL SE CALGARY, AB T2C 4W3 Canada		VARSTEEL LTD 220 4TH ST S LETHBRIDGE, AB T1J 4J7 Canada		1018	Pencil Rod / 3/8"	0000000000
SALES ORDER 5469944/000010		CUSTOMER MATERIAL N°		LENGTH 2000"	WEIGHT 2,001 LB	HEAT / BATCH 56139555/03
CUSTOMER PURCHASE ORDER NUMBER CY-1018913		BILL OF LADING 1301-0000033624		SPECIFICATION / DATE OF REVISION ASTM A6-13A		
DATE 01/31/2018						

CHEMICAL COMPOSITION							
C %	Mn %	P %	S %	Si %	Cu %	Ni %	Cr %
0.18	0.76	0.013	0.024	0.20	0.33	0.07	0.12
Mo %							
0.019							
Sn %							
0.009							

MECHANICAL PROPERTIES			
Elong. %	LTS ksi	LTS MPa	
25.60	74200	512	
23.00	74600	514	

COMMENTS / NOTES

Pencil Rod produced at Gerdau # Charlotte Mill does not meet A36. Certification to grade 1018 chemistry and ASTM A6/A510 dimensional tolerances only.

Pencil Rod produced at Gerdau # Charlotte Mill is a cold drawn and straightened product from coiled rod.

Mechanical properties listed above are the #as rolled/ properties prior to drawing and straightening. These properties change significantly as part of the drawing process.

3/8 Round

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the bills, was melted and manufactured in the USA. CMTR complies with EN 10204 3.1.

Shackey
BHASKAR YALAMANCHILI
QUALITY DIRECTOR

Phone: (409) 769-1014 Email: Bhaskar.Yalamanchili@gerdau.com

Alexander
ALEX RENOSTO
QUALITY ASSURANCE MGR.

Phone: 904-266-1408 Email: Alexander.Renosto@gerdau.com

Customer Name

Customer PO#

Shipper No

Heat Number

PLATINUM ENERGY SERVICES UI C1270178

1239153

525222

Customer Name

Customer PO#

Shipper No

Heat Number

VARSTÉEL LTD. - CALGARY (INTE CY-1017177

5705

525222

EVRAZ

EVRAZ INC. NA

P.O. Box 1670, Regina, Saskatchewan, Canada S4P 3C7

Test Certificate

Form TCI: Revision 2: Date 13 Feb 2017

Customer: VARSTÉEL LTD. 330-220 4TH STREET LETHBRIDGE AB T1J4J7		Customer P.O. No.: DCTL-289		Mail Order No.: 41-254979-11		Shipping Manifest: RT087650	
Product Description: CSA G40.21(2004)/4300(38W)/ASTM A36(04) A709(01A)S6/ASME S436(01ED) CSA G40.21(2004)260W				Ship Date: 06 Jun 17 Cert Date: 06 Jun 17		Cert No: 071077670 (Page 1 of 1)	
Size (Min): 0.365 X 48.00 X COIL (IN)							
Heat Id		Piece Id		Piece Dimensions		Tst Loc	
525222		.06		.60 .007 .006 .13		.029 .30 .11 .11 .04 .022 .001 .000 .0003 .0093	
MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT HOT-ROLLED COIL, INTENDED FOR CONVERSION TO GRADE. CERTIFIED TO CHEMISTRY ONLY. COIL END PHYSICAL TEST RESULTS, IF REPORTED, ARE FOR INFORMATION ONLY. BALANCE OF CHEMISTRY IS IRON (FE) A0135 PCES: 1, WGT: 49050							
3/8 Plate PS1 d2							
WE HEREBY CERTIFY THAT THIS MATERIAL WAS TESTED IN ACCORDANCE WITH THE APPROPRIATE SPECIFICATION Approved By: Milan Foliovic Quality Representative							

Customer Name**Customer PO#****Shipper No****Heat Number**

PLATINUM ENERGY SERVICES UI C1270178

1239153

525222

Customer Name**Customer PO#****Shipper No****Heat Number**

VARSTEEL LTD. - CALGARY (INTE CY-1017177

5705

525222

**Acuren Group Inc.**12271 Horseshoe Way
Richmond, BC, Canada V7A 4V4
www.acuren.comPhone: 604.275.3800
Fax: 604.274.7235

ISO 17025:2005



NDT, Inspection and Engineering

TENSILE TEST REPORTVARSTEEL LTD.
#6 - 8500 RIVER ROAD
DELTA, BC
V4G 1B5

DATE: July 19, 2017

OUR FILE NO: 6046638

P.O. No: Verbal

REPORT NO: 15

PAGE: 1 of 1

ATTENTION: TYLER KLITCH

DESCRIPTION: Two (2) $\frac{3}{8}$ " Thick Steel Strip Coupons
Heat #: 525222
Call ID: A0135
Lab Test Sample ID: 15A - # 525222 (FRONT)
15B - # 525222 (MIDDLE)
15C - # 525222 (END)

Specimen Orientation: Transverse

TEST SPECIFICATION: ASTM A370-17 (Specimen width: 1.5")

MATERIAL SPECIFICATION: ASTM A36-14

SPECIMEN IDENTIFICATION	YIELD STRENGTH 0.2% OFFSET (KSI)	TENSILE STRENGTH (KSI)	% ELONGATION (IN 2")	% REDUCTION IN AREA
15A	65.9	74.1	37	--
15B	61.3	73.1	39	--
15C	60.7	71.3	39	--
CSA G40.21-13 Gr. 44W Requirements:	44 min.	64-90	21 min.	--
ASTM A36-14 Requirements:	36 min.	58-80	23 min.	--

Plate meets the mechanical properties requirements for Grade A36 / Grade 44W / Grade SA36.

- BC Safety Authority Certificate of Recognition Registration No. CR-5
- Test machine calibrated to ASTM E4 and CSA A23.2-90 specifications.
- Specimens will be disposed of after 30 days unless alternate provisions are made.

Reported by:

Ehsan Ahmadi, MSc, EIT

Reviewed by:

Bill Johnson, ASNT

This document and all services and/or products provided in connection with this document and all future sales are subject to and shall be governed by the "Acuren Standard Service Terms" in effect when the services and/or products are ordered. THOSE TERMS ARE AVAILABLE AT WWW.ACUREN.COM/SERVICETERMS. ARE EXPRESSLY INCORPORATED BY REFERENCE INTO THIS DOCUMENT AND SHALL SUPERSEDE ANY CONFLICTING TERMS IN ANY OTHER DOCUMENT (EXCEPT WHERE EXPRESSLY AGREED OTHERWISE IN THAT OTHER DOCUMENT).

The Client Representative who receives this report is responsible for verifying that the acceptance standard listed in the report is correct, and promptly notifying Acuren of any issues with this report and/or the work summarized herein. The owner is responsible for the final disposition of all items inspected.

A17804-06838_16-01R0 60VAR001 Tensile R15.docx

Pg 2 of 2

Customer Name**Customer PO#****Shipper No****Heat Number**

PLATINUM ENERGY SERVICES UI C1270178

1239153

527445



100 Armour Road - Gate 5

Regina, SK S4P 3C7

Phone: 403-320-1953 Fax: 403-329-0805

Website: www.varsteel.ca

Certificate of Analysis and Testing

Customer: VARSTEEL LTD. - CALGARY (INTERCOMPANY)

55 DUFFERIN PLACE SE

CALGARY, AB T2C 4W3

PO Number: CY-1025856**Order Number:** 7399

Weight	Description	Heat Number
5,105.00	1/4" PLATE 44W	CSA 44W 527445

Tag#	Pcs	Width	Length	Heat	Weight
72105	10	60"	120"	527445	5105.00

Analysis

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	Al	V
0.0500	0.7900	0.0110	0.0040	0.2900	0.4400	0.1400	0.1200	0.0500		0.0340	0.0030

Cb	N	B	Zr	Ti	Ca
0.0240	0.0090	0.0002		0.0210	

Mechanical Properties

Tensile PSI	Yield PSI	Elongation % 2 Inches	Reduction of Area	Rockwell B Scale	Grain Size
72,953.00	62,366.00	32.00000	0.00000	0.00000	0.00000

Elongation in 8" -- 20%

Testing Procedures

Coils Tested -- C0102, Made in Canada.

Material meets A36/SA36/44W/38W/API G40.21 as per the attached mill coil certificate.

We hereby certify that the forgoing data is a true copy of the data furnished to us by our supplier or resulting from tests performed in a recognized laboratory.

44W
1/4 PLATE



Test Certificate

Form TCI: Revision 2: Date 13 Feb 2017

EVRAZ INC. NA

P.O. Box 1670, Regina, Saskatchewan, Canada S4P 3C7

Customer: VARSTEEL LTD 330-220 4TH STREET LETHBRIDGE AB T1L4J7	Customer P.O. No.: CTL-416	Shipping Manifest : RT093601
Product Description: CSA G40.21(2004)44/390/38W-ASTM A36(04) A709(01A)36/ASME SA36(01ED) CSA G40.21(2004)260W	MHI Order No.: 41-255702-02	Ship Date: 04 Jan 18 Cert Date: 04 Jan 18
Size (Min): 0.240 X 60.00 X COIL (IN)	Cert No: 071080433 (Page 1 of 1)	

Tested Pieces				Tensiles				Charpy Impact Tests			
Heat Id	Piece Id	Piece Dimensions	Tst Loc	YS (PSI)	UTS (PSI)	%RA	Elong % 2in 8in Dir	Average Hardness	Abs. Energy (FTLB) 1 2 3 Avg	% Shear 1 2 3 Avg	Tst Dir Tmp (mm) Tst Temp & Shr
408249	.05	.008	.30	.030	.34	.09	.05	.022	.003	.019	.0002
527444	.04	.009	.004	.033	.32	.09	.06	.022	.003	.019	.0002
527445	.05	.011	.004	.034	.44	.12	.05	.024	.003	.021	.0002

Heat Id

Chemical Analysis											
C	Mn	P	S	Si	Tot Al	Cu	Ni	Cr	Mo	V	Ti
.05	.78	.008	.003	.30	.030	.34	.10	.09	.05	.022	.003
.04	.79	.009	.004	.29	.033	.32	.13	.09	.06	.022	.003
.05	.79	.011	.004	.29	.034	.44	.14	.12	.05	.024	.003

Balance of Chemistry is Iron (Fe)

PCES: 1, WGT: 62100 408249
PCES: 1, WGT: 62140 527444
PCES: 1, WGT: 62160 527444
PCES: 1, WGT: 62180 527445
PCES: 1, WGT: 61580 527445

PCES: 1, WGT: 6230 62230
PCES: 1, WGT: 62160 62160
PCES: 1, WGT: 61940 61940
PCES: 1, WGT: 62040 62040
PCES: 1, WGT: 62160 62160

MERCURY IS NOT A METALLURGICAL COMPONENT OF THE STEEL AND NO MERCURY WAS INTENTIONALLY ADDED DURING THE MANUFACTURE OF THIS PRODUCT

HOT-ROLLED COIL INTENDED FOR CONVERSION TO GRADE. CERTIFIED TO CHEMISTRY ONLY.

COIL END PHYSICAL TEST RESULTS, IF REPORTED, ARE FOR INFORMATION ONLY.

BALANCE OF CHEMISTRY IS IRON (FE)

408249 C0096 PCES: 1, WGT: 62100 408249

527444 C0098 PCES: 1, WGT: 62140 527444

527444 C0100 PCES: 1, WGT: 62160 527444

527445 C0102 PCES: 1, WGT: 62180 527445

527445 C0104 PCES: 1, WGT: 61580 527445

PCES: 1, WGT: 6230 62230

PCES: 1, WGT: 62160 62160

PCES: 1, WGT: 61940 61940

PCES: 1, WGT: 62040 62040

PCES: 1, WGT: 62160 62160

Customer Name**Customer PO#****Shipper No****Heat Number**

PLATINUM ENERGY SERVICES UI C1270178

1239153

SE18100051

NUCOR**NUCOR STEEL SEATTLE, INC.****Mill Certification**

2/27/2018

MTR #: S1-361106
 Nucor Bar Mill Group
 2424 SW Andover
 SEATTLE, WA 98106-1100
 (206) 933-2222
 Fax: (206) 933-2207

Sold To: VARSTEEL LTD
 #330 220-4 ST S
 LETHBRIDGE AB T1J 4J7
 CANADA
 (403) 279-7030
 Fax: (403) 327-6637

Ship To: VARSTEEL CO LTD - TRUCK
 55 DUFFERIN PL SE
 CALGARY AB T2C 4W3
 CANADA
 (403) 279-7030
 Fax: (403) 327-6637

Customer P.O.	CY-1025442	Sales Order	344812.5
Product Group	Merchant Bar Quality	Part Number	2020025024004W0
Grade	A36/A529GR50/CSA44W/50W	Lot #	SE1810005101
Size	2x2x1/4 Angle	Heat #	SE18100051
Product	2x2x1/4 Angle 20' A36/A529-50/44W/50W	B.L. Number	S1-532741
Description	A36/A529-50/44W/50W	Load Number	S1-361106
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 1/4/2018 Melt Date: 1/3/2018 Qty Shipped LBS: 14,739 Qty Shipped Pcs: 231

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb
0.17%	0.94%	0.013%	0.034%	0.20%	0.35%	0.09%	0.12%	0.020%	0.0130%	0.001%

Yield 1: 55,784psi

Tensile 1: 77,876psi

Elongation: 26.6% in 8"(% in 203.3mm)

Yield 2: 55,010psi

Tensile 2: 78,001psi

Elongation 28.1% in 8"(% in 203.3mm)

Weight Variation 000.0%

Specification Comments: MEETS THE REQUIREMENTS OF ASTM A36/A36M-12, ASTM A529/529M-05 GR50, CSA G40.21-13 GR44W(300W)/GR50W(350W), MEETS REPORTING REQUIREMENTS OF EN10204 SEC 3.1

Nucor - Seattle is I.S.O. 9001, 14001 and ABS certified. All manufacturing processes of the steel materials in this product, including melting, have occurred within the United States. Mercury, in any form, has not been used in the production or testing of this material. Meets (FTA) Buy America Requirements (49 C.F.R. part 661) PROPOSITION 65 WARNING: This product contains a chemical known to the State of California to cause cancer and/or birth defects or other reproductive harm. For more information, please call 206-933-2222. This material is free of HG contamination and is ROHS compliant. Manufactured in the US and complies with the Buy American Act. No weld repair was performed. Parts meet the requirements of the purchase order and have been produced under Nucor Steel Seattle quality manual rev A2 dated 10/21/2015.

2x2 x 1/4 Angle



Erik Nissen

Division Metallurgist

Page 4 of 8

Customer Name**Customer PO#****Shipper No****Heat Number**

PLATINUM ENERGY SERVICES UI C1270178

1239153

SE18100865

NUCOR**NUCOR STEEL SEATTLE, INC.****Mill Certification**

3/5/2018

MTR #: S1-361710
Nucor Bar Mill Group
2424 SW Andover
SEATTLE, WA 98106-1100
(206) 933-2222
Fax: (206) 933-2207

Sold To: VARSTEEL LTD
#330 220-4 ST S
LETHBRIDGE AB T1J 4J7
CANADA
(403) 279-7030
Fax: (403) 327-6637

Ship To: VARSTEEL CO LTD - TRUCK
55 DUFFERIN PL SE
CALGARY AB T2C 4W3
CANADA
(403) 279-7030
Fax: (403) 327-6637

Customer P.O.	CY-1025442	Sales Order	344812.15
Product Group	Merchant Bar Quality	Part Number	2506008248010W0
Grade	NUCOR MULTIGRADE	Lot #	SE1810086501
Size	6x8.2# Channel	Heat #	SE18100865
Product	6x8.2# Channel 40' NUCOR MULTIGRADE	B.L. Number	S1-533083
Description	NUCOR MULTIGRADE	Load Number	S1-361710
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 2/26/2018 Melt Date: 2/18/2018 Qty Shipped LBS: 5,248 Qty Shipped Pcs: 16

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	Sn
0.15%	0.98%	0.017%	0.040%	0.20%	0.32%	0.11%	0.18%	0.030%	0.0110%	0.001%	0.020%
CEA529											
0.42%											

CEA529: A529 CARBON EQUIVALENT

Yield 1: 53,383psi

Tensile 1: 75,499psi

Elongation: 21.9% in 8"(% in 203.3mm)

Yield 2: 53,094psi

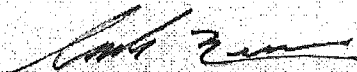
Tensile 2: 75,661psi

Elongation 21.1% in 8"(% in 203.3mm)

Specification Comments: NUCOR MULTIGRADE MEETS THE REQUIREMENTS OF: ASTM A36/A36M-12, ASTM A529/529M-05 GR50, ASTM A572/572M-12A GR50, ASTM A709/709M-13 GR36/GR50, CSA G40.21-13 GR44W(300W)/GR50W(350W), AASHTO M270/M270M-10 GR36/GR50, ASME SA36/SA36M-07, MEETS REPORTING REQUIREMENTS OF EN10204 SEC 3.1

Nucor - Seattle is I.S.O. 9001, 14001 and ABS certified All manufacturing processes of the steel materials in this product, including melting, have occurred within the United States. Mercury, in any form, has not been used in the production or testing of this material, meets (FTA) Buy America Requirements (49 C.F.R. part 561) PROPOSITION 65 WARNING: This product contains a chemical known to the State of California to cause cancer and/or birth defects or other reproductive harm. For more information, please call 206-933-2222 This material is free of HG contamination and is ROHS compliant. Manufactured in the US and complies with the Buy American Act. No weld repair was performed. Parts meet the requirements of the purchase order and have been produced under Nucor Steel Seattle quality manual rev A2 dated 10/21/2015

6x8.2 channel



Erik Nissen

Division Metallurgist

Page 8 of 9

Customer Name**Customer PO#****Shipper No****Heat Number**

PLATINUM ENERGY SERVICES UI C1270178

1239153

SE18100865

NUCOR**NUCOR STEEL SEATTLE, INC.****Mill Certification****3/5/2018**

MTR #: S1-361710
 Nucor Bar Mill Group
 2424 SW Andover
 SEATTLE, WA 98106-1100
 (206) 933-2222
 Fax: (206) 933-2207

Sold To: VARSTEEL LTD
 #330 220-4 ST S
 LETHBRIDGE AB T1J 4J7
 CANADA
 (403) 279-7030
 Fax: (403) 327-6637

Ship To: VARSTEEL CO LTD - TRUCK
 55 DUFFERIN PL SE
 CALGARY AB T2C 4W3
 CANADA
 (403) 279-7030
 Fax: (403) 327-6637

Customer P.O.	CY-1025673	Sales Order	344937.8
Product Group	Merchant Bar Quality	Part Number	2506008248010W0
Grade	NUCOR MULTIGRADE	Lot #	SE1810086501
Size	6x8.2# Channel	Heat #	SE18100865
Product	6x8.2# Channel 40' NUCOR MULTIGRADE	B.L. Number	S1-533083
Description	NUCOR MULTIGRADE	Load Number	S1-361710
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 2/26/2018 Melt Date: 2/18/2018 Qty Shipped LBS: 10,496 Qty Shipped Pcs: 32

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	Sn
0.15%	0.98%	0.017%	0.040%	0.20%	0.32%	0.11%	0.18%	0.030%	0.0110%	0.001%	0.020%
CEA529											
0.42%											

CEA529: A529 CARBON EQUIVALENT

Yield 1: 53,383psi

Tensile 1: 75,499psi

Elongation: 21.9% in 8"(% in 203.3mm)

Yield 2: 53,094psi

Tensile 2: 75,661psi

Elongation 21.1% in 8"(% in 203.3mm)

Specification Comments: NUCOR MULTIGRADE MEETS THE REQUIREMENTS OF: ASTM A36/A36M-12, ASTM A529/529M-05 GR50, ASTM A572/572M-12A GR50, ASTM A709/709M-13 GR36/GR50, CSA G40.21-13 GR44W(300W)/GR50W(350W), AASHTO M270/M270M-10 GR36/GR50, ASME SA36/SA36M-07, MEETS REPORTING REQUIREMENTS OF EN10204 SEC 3.1

Nucor - Seattle is I.S.O. 9001, 14001 and ABS certified All manufacturing processes of the steel materials in this product, including melting, have occurred within the United States. Mercury, in any form, has not been used in the production or testing of this material. meets (FTA) Buy America Requirements (49 C.F.R. part 661) PROPOSITION 65 WARNING: This product contains a chemical known to the State of California to cause cancer and/or birth defects or other reproductive harm. For more information, please call 206-933-2222 This material is free of HG contamination and is ROHS compliant. Manufactured in the US and complies with the Buy American Act. No weld repair was performed. Parts meet the requirements of the purchase order and have been produced under Nucor Steel Seattle quality manual rev A2 dated 10/21/2015

6x8.2 channel

Erik Nissen

Division Metallurgist

Page 9 of 9

Customer Name**Customer PO#****Shipper No****Heat Number**

PLATINUM ENERGY SERVICES UI C1270178

1239153

SE18100869

NUCOR**NUCOR STEEL SEATTLE, INC.****Mill Certification**

3/9/2018

MTR #: S1-361805
 Nucor Bar Mill Group
 2424 SW Andover
 SEATTLE, WA 98106-1100
 (206) 933-2222
 Fax: (206) 933-2207

Sold To: VARSTEEL LTD
 #330 220-4 ST S
 LETHBRIDGE AB T1J 4J7
 CANADA
 (403) 279-7030
 Fax: (403) 327-6637

Ship To: VARSTEEL LTD
 55 DUFFERIN PL SE
 CALGARY AB T2C 4W3
 CANADA
 (403) 279-7030
 Fax: (403) 327-6637

Customer P.O.	CY-1025950	Sales Order	345082.11
Product Group	Merchant Bar Quality	Part Number	2506008224010W0
Grade	NUCOR MULTIGRADE	Lot #	SE1810086901
Size	6x8.2# Channel	Heat #	SE18100869
Product	6x8.2# Channel 20' NUCOR MULTIGRADE	B.L. Number	S1-533393
Description	NUCOR MULTIGRADE	Load Number	S1-361805
Customer Spec		Customer Part #	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Roll Date: 2/26/2018 Melt Date: 2/18/2018 Qty Shipped LBS: 3,280 Qty Shipped Pcs: 20

C	Mn	P	S	Si	Cu	Ni	Cr	Mo	V	Cb	Sn
0.16%	0.94%	0.019%	0.038%	0.23%	0.37%	0.10%	0.14%	0.030%	0.0120%	0.001%	0.020%
CEA529											
0.42%											

CEA529: A529 CARBON EQUIVALENT

Yield 1: 52,942psi

Tensile 1: 74,603psi

Elongation: 21.9% in 8"(% in 203.3mm)

Yield 2: 52,144psi

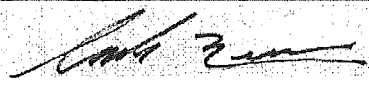
Tensile 2: 74,709psi

Elongation 23.4% in 8"(% in 203.3mm)

Specification Comments: NUCOR MULTIGRADE MEETS THE REQUIREMENTS OF: ASTM A36/A36M-12, ASTM A529/529M-05 GR50, ASTM A572/572M-12A GR50, ASTM A709/709M-13 GR36/GR50, CSA G40.21-13 GR44W(300W)/GR50W(350W), AASHTO M270/M270M-10 GR36/GR50, ASME SA36/SA36M-07. MEETS REPORTING REQUIREMENTS OF EN10204 SEC 3.1

Nucor - Seattle is I.S.O. 9001, 14001 and ABS certified All manufacturing processes of the steel materials in this product, including melting, have occurred within the United States. Mercury, in any form, has not been used in the production or testing of this material. meets (FTA) Buy America Requirements (49 C.F.R. part 661) PROPOSITION 65 WARNING: This product contains a chemical known to the State of California to cause cancer and/or birth defects or other reproductive harm. For more information, please call 206-933-2222 This material is free of HG contamination and is ROHS compliant. Manufactured in the US and complies with the Buy American Act. No weld repair was performed. Parts meet the requirements of the purchase order and have been produced under Nucor Steel Seattle quality manual rev A2 dated 10/21/2015

6@8.2
Channel



Erik Nissen

Division Metallurgist

Page 8 of 8

Customer Name

Customer PO#

Shipper No

Heat Number

PLATINUM ENERGY SERVICES UI C1270178

1239153

52081623



CA-ML-WHITBY

I GERDAU CT

WHITBY, ON L1N 5T1

Canada

CERTIFIED MATERIAL TEST REPORT

Page 1/1

CUSTOMER PURCHASE ORDER NUMBER CY102313		BILL OF LADING 1302-0000069262		DATE 01/12/2018	
CUSTOMER SHIP TO VARSTEEL LTD 55 DUFFERIN PL SE CALGARY, AB T2C 4W3 Canada		CUSTOMER BILL TO VARSTEEL LTD 220 4TH ST S LETHBRIDGE, AB T1J 4J7 Canada		GRADE GOMULTI	
SALES ORDER 5980783/000160		CUSTOMER MATERIAL N°		SHAPE / SIZE Channel / 4 X 5.4#	
SPECIFICATION / DATE OF REVISION ASTM A529-14, A572-15 ASTM A6-17, A36-14, ASME SA-36 ASTM A709-17, AASHTO M270-15 CSA G40.20-13/G40.21-13		LENGTH 40'00"		WEIGHT 15,552 LB	
				HEAT / BATCH 52081623/03	

CHEMICAL COMPOSITION

C	Mn	P	S	Si	Cu	Ni	Cr	V	Nb
%	%	%	%	%	%	%	%	%	%
0.15	0.73	0.023	0.024	0.18	0.37	0.11	0.20	0.017	0.001

MECHANICAL PROPERTIES

Elong.	G.T.	UTS	UTS	YS0.2%	YS
%	Inch	PSI	MPa	PSI	MPa
21.90	8.000	71377	492	51449	355
22.50	8.000	71168	491	52190	360

COMMENTS / NOTES

This grade meets the requirements for the following grades:

ASTM Grades: A36, A529-50; A572-50; A709-36; A709-50

CSA Grades: 44W, 50W

AASHTO Grades: M270-36; M270-50

ASME Grades: SA36

4 @ 5.4
Channel

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the billets, was melted and manufactured in Canada. CMTR complies with EN 10204 3.1.

Shackey
BHASKAR VALANABHILLI
QUALITY DIRECTOR

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Leonardo Nunes
LEONARDO NUNES
QUALITY ASSURANCE MGR

Phone: (905) 668-8811 EXT 4055 Email: Leonardo.Nunes@gerdau.com



ESSAR STEEL ALGOMA INC., 105 West Street, Sault Ste. Marie, Ontario, Canada P6A 7B4

Customer Name

Customer PO#

Shipper No

Heat Number

PLATINUM ENERGY SERVICES UI C1270178

1239153

8949C4

SO No. Item & Date.: 8054026 000110 2017/08/14		Shipment No & Date.: 1200009685 2017/08/16		TC No., Date & Time: ESA-421687 2017/08/18 - 11:22:57	
Sold to Customer Name and Address : VARSTEEL LIMITED 4TH STREET SOUTH #330 - 220 LETHBRIDGE, Alberta, Canada		Ship to Customer Name and Address: VARSTEEL METALS PROCESSING ALLARD AVENUE 3810 LEDUC, Alberta, Canada		Customer PO NO./Item: LD-1015916/12 BOL NO.: 1200009685 Cust. Part No.: HBO3558 Carrier: C P RAIL (CAD FUNDS) - ESAX 41	
Customer Specification : HR STEEL SHEET Floor Plate Carbon CS ALGOMA 50/ASTM A786 (2013) / (09) Fully Killed Fine Grain Flatness 1/2 A786 Sld Thickness Tol No Weld Repair					
Supplementary Instructions : Test Cert 1: mark.filatoff@varsteel.ca Test Cert 2: Receiving@varsteel.ca					
Insp T/R : Chemical Analysis					
ESSAR STEEL ALGOMA INC. HEREBY CERTIFIES THAT THE MATERIAL HEREIN DESCRIBED WAS MADE AND TESTED IN ACCORDANCE WITH THE RULES OF THE SPECIFICATION SHOWN. ALL RESULTS ARE RETAINED IN ACCORDANCE WITH THE COMPANY'S STANDARD RECORD KEEPING PRACTICES. THIS MILL TEST REPORT MAY NOT BE REPRODUCED EXCEPT IN FULL WITHOUT WRITTEN APPROVAL OF ESSAR STEEL ALGOMA INC. IF YOU RECEIVE THIS DOCUMENT AND ARE NOT THE INTENDED RECEIVER, PLEASE CALL (705) 945-4095 FOR INSTRUCTIONS ON METHOD OF DISPOSAL OF DOCUMENT. THIS TEST REPORT HAS BEEN GENERATED BY A COMPUTERIZED SYSTEM AND IS VALID WITHOUT A PHYSICAL SIGNATURE.					
MEETS EN 10204-2004 TYPE 3.1 ISO QUALITY AND ENVIRONMENTAL CERTIFICATES AVAILABLE AT WWW.ALGOMA.COM					
ALL HEATS FULLY KILLED. HEATS INDICATED WITH (*) FINE GRAINED HEATS INDICATED WITH (+) Made in Canada for NAFTA duty preference and NAFTA marking purposes					
Dimensions (T x W x L)		Batch No.	Heat No.-MS	Quantity	No. of Pcs
0.1880 " x 60.000 " x 288.00 "		LBO355801	8949C4-03	9,710 LB	10
0.1880 " x 60.000 " x 288.00 "		LBO355803	8949C4-03	8,740 LB	9
0.1880 " x 60.000 " x 288.00 "		LBO355805	8949C4-03	7,760 LB	8
CHEMICAL PROPERTIES					
Heat No. (wt%)	C	Mn	P	S	Si
8949C4*	0.04	0.26	0.007	0.003	0.040
					Cr
					Ni
					Cu
					Mo
					Al
					Nb
					V
					Ti

Check Plate

KASHIF REHMAN

MANAGER METALLURGICAL SERVICES

WARNING THE TEST RESULTS AND VALUES REPORTED HEREIN INDICATE ONLY THAT (1) THE PARTICULAR STEEL FOR WHICH THIS CERTIFICATE IS ISSUED MEETS THE MINIMUM SPECIFIED YIELD STRENGTH AND (2) THE ANALYSIS AND PHYSICAL PROPERTIES OF SUCH STEEL ARE IN CONFORMANCE WITH THE REQUIREMENTS OF THE SPECIFICATION INDICATED. THE RESULTS OR VALUES REPORTED HEREIN CAN NOT BE USED TO QUALIFY THE STEEL FOR ANY SPECIFICATION OTHER THAN THE ONE INDICATED AND CAN NOT BE RELIED UPON FOR ANY PURPOSE (INCLUDING DESIGN OR CALCULATIONS) AS REPRESENTING THE ACTUAL STRENGTH OF SUCH STEEL.

Customer Name

Customer PO#

Shipper No

Heat Number

PLATINUM ENERGY SERVICES UI C1270178

1239153

58031604



GERDAU

US-ML-MIDLOTHIAN

300 WARD ROAD

MIDLOTHIAN, TX 76065

USA

CERTIFIED MATERIAL TEST REPORT

Page 1/1

CUSTOMER SHIP TO VARSTEEL LTD 55 DUFFERIN PL SE CALCARY AB T2C 4W3 Canada		CUSTOMER BILL TO VARSTEEL LTD 220 4TH ST S LETHBRIDGE AB T1J 4J7 Canada		GRADE A592/A572-50		SHAPE / SIZE Wide Flange Beam / 16 X 31# / 410 X 46.1		DOCUMENT ID: 0000000000	
SALES ORDER 5741638/000740		CUSTOMER MATERIAL N°		LENGTH 5000"		WEIGHT 10,850 LB		HEAT / BATCH 58031604/03	
CUSTOMER PURCHASE ORDER NUMBER CY-1020932		BILL OF LADING 1327-0000257001		DATE 11/09/2017		SPECIFICATION / DATE OF REVISION ASTM A6-14 ASTM A709-15 ASTM A592-11 (2015), A572-15 CSA G40.21-13 345N/A			

CHEMICAL COMPOSITION									
C	Mn	P	S	Si	Cu	Ni	Cr	Mo	
%	%	%	%	%	%	%	%	%	
0.08	0.89	0.016	0.025	0.22	0.44	0.11	0.14	0.023	

CHEMICAL COMPOSITION									
CE									
%									
0.30									

MECHANICAL PROPERTIES				
YS	UTS	YS	UTS	
MPa	MPa	MPa	MPa	
56172	69513	387	479	
55769	69622	384	480	

MECHANICAL PROPERTIES				
Elong.				
%				
25.00				
200.0				

COMMENTS / NOTES

16031 wt

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the billets, was melted and manufactured in the USA. CMTR complies with EN 10204 3.1.

BHASKAR YALAMANCHILI
QUALITY DIRECTOR

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WADE LUMPKINS
QUALITY ASSURANCE MGR.

Phone: 972-779-3118 Email: Wade.Lumpkins@gerdau.com

Customer Name

Customer PO#

Shipper No

Heat Number

PLATJNUM ENERGY SERVICES UI C1270178

1239153

58032243



GERDAU

US-ML-MIDLOTHIAN

300 WARD ROAD
MIDLOTHIAN, TX 76065
USACUSTOMER SHIP TO
VARSTEEL LTD
55 DUFFERIN PL SE
CALGARY, AB T2C 4W3
CanadaCUSTOMER BILL TO
VARSTEEL LTD
220 4TH ST S
LETHBRIDGE, AB T1J 4J7
CanadaSALES ORDER
5741638/000730

CUSTOMER MATERIAL N°

CUSTOMER PURCHASE ORDER NUMBER
CY-1020932BILL OF LADING
1327-000026305DATE
01/10/2018SPECIFICATION / DATE OF REVISION
ASTM A6-14
ASTM A709-15
ASTM A992-11 (2015), A572-15
CSA G40.21-13 345WMAGRADE
A992/A572-50
SHAPE / SIZE
Wide Flange Beam / 16 X 31# / 410 X 46.1
DOCUMENT ID:
0000000000LENGTH
4500"
PCS
7
WEIGHT
9,765 LB
HEAT / BATCH
58032243/04

CHEMICAL COMPOSITION	C	Mn	P	S	Si	Cu	Ni	Cr	Mo	Sn	V	Nb	Al
%	%	%	%	%	%	%	%	%	%	%	%	%	%
0.11	0.93	0.012	0.015	0.20	0.23	0.23	0.18	0.056	0.005	0.002	0.017	0.002	

CHEMICAL COMPOSITION
CE97A6
0.34MECHANICAL PROPERTIES
Y.S. 0.2%
T.S.
56678
56995UTS
70630
70936MPa
391
393UTS
487
489

MPa

Y/T ratio
0.800
0.800G/L
8.000
8.000MECHANICAL PROPERTIES
G/L
mm
200.0
200.0Elong.
%
25.40
24.20

COMMENTS / NOTES

16e31 wt

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the bill(s), was melted and manufactured in the USA. CMTR complies with EN 10204 3.1.

Mackay

BHASKAR YALAMANCHILI
QUALITY DIRECTOR

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Wade L. Lumsden

WADE LUMSDEN
QUALITY ASSURANCE MGR.

Phone: 972-719-3118 Email: Wade.Lumsden@gerdau.com

Customer Name**Customer PO#****Shipper No****Heat Number**

PLATINUM ENERGY SERVICES UI C1270178

1239153

1201000734

NUCOR
 NUCOR CORPORATION
 NUCOR STEEL UTAH

Mill Certification

03/08/2018

MTR#: 43067
 Lot #: 120100073460
 W CEMETERY ROAD
 PLYMOUTH, UT 84330 US
 800-453-2886
 Fax: 435-458-2886

Sold To: VARSTEEL LTD
 330 220 4TH ST S
 LETHBRIDGE, AB T1J 4J7 CA

Ship To: VARSTEEL - CALGARY
 55 DUFFERIN PL SE
 CALGARY, AB T2C 4W3 CA

Customer P.O	CY-1025756	Sales Order #	12001903 - 1.2
Product Group	Hot Roll - Merchant Bar Quality	Product #	3008711
Grade	A36/A529 Gr 50/44W/50W	Lot #	120100073460
Size	0.75"	Heat #	1201000734
BOL #	BOL-139625	Load #	43067
Description	Hot Roll - Merchant Bar Quality Round 3/4" A36/A529 Gr 50/44W/50W 20' 0" [240"] 2001-6000 lbs	Customer Part #	RD3/4 20 04W0
Production Date	02/20/2018	Qty Shipped LBS	3965
Product Country Of Origin	United States	Qty Shipped EA	132
Original Item Description		Original Item Number	

I hereby certify that the material described herein has been manufactured in accordance with the specifications and standards listed above and that it satisfies those requirements.

Melt Country of Origin : United States

Melting Date: 02/20/2018

C (%)	Mn (%)	P (%)	S (%)	Si (%)	Ni (%)	Cr (%)	Mo (%)	Cu (%)	V (%)	Nb (%)
0.17	0.72	0.007	0.022	0.19	0.11	0.10	0.03	0.31	0.002	0.001

Other Test Results

Yield (PSI) : 50800

Yield (PSI) : 51200

Tensile (PSI) : 72700

Tensile (PSI) : 72500

Elongation in 8" (%) : 27.0

Elongation in 8" (%) : 28.0

Comments:

MEETS THE REQUIREMENTS OF:

ASTM A36/A36M-14, A529/A529M-14 GR50,

CSA G40.21-13 GR44W(300W)&GR50W(350W),

AASHTO M270/M270M-12 GR36(270), ASME SA36/SA36M-13, ASTM A709-16 GR36

Nucor-Plymouth is an ISO-9001 and an ABS certified mill.

CMTR complies with DIN EN 10204 - 3.1

All manufacturing processes of the steel materials in this product, including melting, casting, and hot rolling have occurred in the United States. All products produced are weld free. Mercury, in any form, has not been used in the production or testing of this material.

Proposition 65 Warning: This product contains a chemical known to the state of California to cause cancer and/or birth defects or other reproductive harm, for more information please call 1-435-458-2300.

3/4" Round
 Bar

Bryden Morris, Chief Metallurgist

Customer Name

Customer PO#

Shipper No

Heat Number

PLATINUM ENERGY SERVICES UI C1270178

1239153

52080466



GERDAU

CA-MIL-CAMBRIDGE

160 ORION PLACE

CAMBRIDGE, ON N1T 1R9

Canada

CUSTOMER SHIP TO

VARSTEEL LTD

55 DUFFERIN PL SE

CALGARY, AB T2C 4W3

Canada

CUSTOMER BILL TO

VARSTEEL LTD

220 4TH ST S

LETHBRIDGE, AB T1J 4J7

Canada

SALES ORDER
5746535/000160

CUSTOMER MATERIAL N°

CUSTOMER PURCHASE ORDER NUMBER
CY-1021027BILL OF LADING
1301-0000033068DATE
12/20/2017

GRADE

A36/4W

SHAPE / SIZE

Round Bar / 1/2"

DOCUMENT ID:

0000000000

LENGTH

20'00"

WEIGHT

9,659 LB

HEAT / BATCH

52080466/02

SPECIFICATION / DATE OF REVISION

ASME SA36

ASTM A6-14, A36-14

ASTM A709-15, AASHTO M270-12

CSA G40.20-13/G40.21-13

CHEMICAL COMPOSITION

C %	Mn %	P %	S %	Si %	Cu %	Ni %	Cr %	Mo %
0.19	0.78	0.020	0.026	0.15	0.36	0.13	0.18	0.040

MECHANICAL PROPERTIES

Elong. %	C/T Inch	UTS PSI	UTS MPa	YS PSI	YS MPa
20.00	8.000	77669	536	56462	389
20.00		77413	534	55538	383

COMMENTS / NOTES

1/2 Round
Bar

The above figures are certified chemical and physical test records as contained in the permanent records of company. We certify that these data are correct and in compliance with specified requirements. This material, including the billets, was melted and manufactured in Canada. CMTR complies with EN 10204 3.1.

Mr. Ashok

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