

Wisconsin Department of Transportation
Explanation of Variation Between Contract and Final Quantities

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Contract: 20171114011 **Contractor:** LARSON CONSTRUCTION CO., INC. **Projects**
Location: Grant 5587-00-72
Highway: E

Prop. Line Item #.	Description	Unit Price	Unit	Authorized Quantity	Quantity Paid	Variation Quantity	Variation Percent
201.0105		290.00	STA	2.00	2.00	0.00	0%
	Clearing						
	0002						
201.0205		290.00	STA	2.00	2.00	0.00	0%
	Grubbing						
	0004						
203.0600.S		15000.00	LS	1.00	1.00	0.00	0%
	Rem Old Str Ovr Water Min Debris (sta)						
	0006			01. 9+12			
205.0100		7.50	CY	247.00	247.00	0.00	0%
	Excavation Common						
	0008			**P**			
206.1000		12000.00	LS	1.00	1.00	0.00	0%
	Exc for Structure Bridges (structure)						
	0010			01. B-22-286			

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208.0100		11.50	CY	4,407.00	4,603.00	+196.00	+4%
	Borrow						
	0012						
210.1500		27.00	TON	470.00	297.00	-173.00	-37%
	Backfill Structure Type A						
	0014 Item was partially completed before the Flood washed material out. Remaining work was done and paid under Contract Mod 2.						
213.0100		1500.00	EACH	1.00	1.00	0.00	0%
	Finishing Roadway (project)						
	0016			01. 5587-00-72			
305.0110		22.05	TON	125.00	131.00	+6.00	+5%
	Base Aggregate Dense 3/4-Inch						
	0018						
305.0120		17.35	TON	895.00	1,032.00	+137.00	+15%
	Base Aggregate Dense 1 1/4-Inch						
	0020 Existing asphaltic surface was excessively deep. Base Aggregate dense 1¼" was used to fill from existing subgrade to bottom of asphalt.						

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416.1010		450.00	CY	4.60	4.50	-0.10	-2%
	Concrete Surface Drains						
	0022						
455.0605		8.00	GAL	61.00	49.00	-12.00	-20%
	Tack Coat						
	0024 Tack Coat was not needed in widening area due to lifts being placed consecutively.						
460.2000		1.00	DOL	130.00	0.00	-130.00	-100%
	Incentive Density HMA Pavement						
	0026 This Pay Item was removed from the project, per Addendum No. 1						
465.0105		112.00	TON	197.00	197.80	+0.80	+0%
	Asphaltic Surface						
	0156						
502.0100		650.00	CY	217.00	217.00	0.00	0%
	Concrete Masonry Bridges						
	0032						

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502.3200		3.00	SY	320.00	318.00	-2.00	-1%
	Protective Surface Treatment						
	0034						
502.3210		3.00	SY	100.00	101.00	+1.00	+1%
	Pigmented Surface Sealer						
	0036						
503.0146		255.00	LF	376.00	376.00	0.00	0%
	Prestressed Girder Type I 45W-Inch						
	0038						
505.0400		1.30	LB	3,360.00	3,346.00	-14.00	-0%
	Bar Steel Reinforcement HS Structures						
	0040						
505.0600		1.30	LB	27,710.00	27,677.00	-33.00	-0%
	Bar Steel Reinforcemnt HS Coated Strctrs						
	0042						

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506.2605		65.00	EACH	8.00	8.00	0.00	0%
	Bearing Pads Elastomeric Non-Laminated						
	0044						
506.4000		1000.00	EACH	6.00	6.00	0.00	0%
	Steel Diaphragms (structure)						
	0046			01. B-22-286			
516.0500		47.00	SY	14.00	22.00	+8.00	+57%
	Rubberized Membrane Waterproofing						
	0048 Optional joints were placed in the wings and required sealing.						
520.1012		275.00	EACH	2.00	2.00	0.00	0%
	Apron Endwalls for Culvert Pipe 12-Inch						
	0050						
550.1120		31.00	LF	420.00	323.00	-97.00	-23%
	Piling Steel HP 12-Inch X 53 Lb						
	0052 Steel Piling reached refusal at higher elevation than plan proposed.						

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606.0200		56.00	CY	130.00	124.00	-6.00	-5%
	Riprap Medium						
	0054						
606.0300		56.00	CY	415.00	550.00	+135.00	+33%
	Riprap Heavy						
	0056 Due to the Flood additional area required riprap.						
606.0700		75.00	CY	100.00	117.00	+17.00	+17%
	Grouted Riprap Heavy						
	0058 The field conditions required less grout to satisfactory grout the heavy riprap.						
611.0654		725.00	EACH	2.00	2.00	0.00	0%
	Inlet Covers Type V						
	0060						
611.3220		1345.00	EACH	2.00	2.00	0.00	0%
	Inlets 2x2-FT						
	0062						

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612.0212		66.00	LF	45.00	40.00	-5.00	-11%
	Pipe Underdrain Unperforated 12-Inch						
0064	Site conditions allowed for less pipe to be placed.						
612.0406		9.00	LF	158.00	116.00	-42.00	-27%
	Pipe Underdrain Wrapped 6-Inch						
0066	Item was partially completed before the Flood washed material out. Remaining work was done and paid under Contract Mod 2.						
614.0150		175.00	EACH	4.00	4.00	0.00	0%
	Anchor Assemblies Stl Plate Beam Guard						
0068							
614.0200		54.00	LF	21.00	21.00	0.00	0%
	Steel Thrie Beam Structure Approach						
0070							
614.0305		22.00	LF	13.00	38.00	+25.00	+192%
	Steel Plate Beam Guard Class A						
0072	Plans called for section of Class A- Steel Plate Beam Guard Short Radius and no quantity was figured.						

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614.0390		1450.00	EACH	1.00	1.00	0.00	0%
	Steel Plate Beam Guard Shrt Rad Terminal						
0074							
614.0920		2.50	LF	575.00	503.00	-72.00	-13%
	Salvaged Rail						
0076	The removal of Salvaged Rail was field verified and less than plan.						
614.2300		18.50	LF	207.00	213.00	+6.00	+3%
	MGS Guardrail 3						
0078							
614.2500		65.00	LF	117.00	118.00	+1.00	+1%
	MGS Thrie Beam Transition						
0080							
614.2610		2600.00	EACH	3.00	3.00	0.00	0%
	MGS Guardrail Terminal EAT						
0082							

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619.1000		59250.00	EACH	1.00	1.00	0.00	0%
	Mobilization						
	0084						

624.0100		40.00	MGAL	18.80	12.00	-6.80	-36%
	Water						
	0086	Water was not required during base placement due to the rainy weather.					

625.0500		4.00	SY	2,375.00	2,375.00	0.00	0%
	Salvaged Topsoil						
	0088			**P**			

625.0500		4.00	SY	1,277.00	1,277.00	0.00	0%
	Salvaged Topsoil						
	0166	After the flood additional areas that needed topsoil. Additional topsoil was needed between stations 10+50 and 12+08 RT, where riprap was eliminated.					
		PC Project removed "P" quantity and Project measured areas as actual field measurements due to field changes caused by flooding.					

627.0200		.12	SY	27,750.00	0.00	-27,750.00	-100%
	Mulching						
	0090	This bid item was not needed. Project borrow came from a commercial site so mulching was not needed.					

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Prop. Line Item #.	Description	Unit Price	Unit	Authorized Quantity	Quantity Paid	Variation Quantity	Variation Percent
628.1504		2.25	LF	666.00	1,219.00	+553.00	+83%
	Silt Fence						
0092	Item completed before the Flood. The flood washed it out so new silt fence was installed.						
628.1520		.25	LF	666.00	287.00	-379.00	-57%
	Silt Fence Maintenance						
0094	Measured quantity- paid what was repaired.						
628.1905		250.00	EACH	5.00	4.00	-1.00	-20%
	Mobilizations Erosion Control						
0096	Measured quantity- paid for the work preformed.						
628.1910		350.00	EACH	5.00	2.00	-3.00	-60%
	Mobilization Emergency Erosion Control						
0098	Measured quantity- paid for the work preformed.						
628.2006		1.60	SY	2,551.00	3,652.00	+1,101.00	+43%
	Erosion Mat Urban Class I Type A						
0100	After the flood there were additional areas that needed to be stabilized. Additional item used, between stations 10+50 and 12+08 RT, where riprap was eliminated.						

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628.6005		33.00	SY	105.00	250.00	+145.00	+138%
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Turbidity Barriers

0102 Additional height and length was needed to protect the stream during abutment and riprap construction.

628.7504		9.00	LF	150.00	0.00	-150.00	-100%
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Temporary Ditch Checks

0104 Item was not needed. Riprap was placed in area that called for ditch checks.

628.7570		12.00	EACH	30.00	0.00	-30.00	-100%
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Rock Bags

0106 Site conditions and staging operations didn't warrant this item.

629.0210		54.00	CWT	20.12	2.50	-17.62	-88%
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Fertilizer Type B

0108 Contractor applied the required amount of fertilizer at the site. The project didn't use the remaining quantity because there wasn't a borrow site.

630.0130		12.50	LB	43.00	43.00	0.00	0%
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Seeding Mixture No. 30

0110 **P**

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630.0130		12.50	LB	17.00	17.00	0.00	0%
	Seeding Mixture No. 30						
0171	After the flood additional areas needed seeding. Seeded area between stations 10+50 and 12+08 RT, riprap was eliminated. PC Project removed "P" quantity and Project measured areas as actual field measurements due to field changes caused by flooding.						
630.0200		6.50	LB	18.00	18.00	0.00	0%
	Seeding Temporary						
0112	This item was place at 50% rate at WisDOT recommendation.			**P**			
630.0300		6.50	LB	375.00	0.00	-375.00	-100%
	Seeding Borrow Pit						
0114	Borrow came from a commercial site, so seeding is not required.						
634.0614		60.00	EACH	4.00	4.00	0.00	0%
	Posts Wood 4x6-Inch X 14-FT						
0116							
637.2230		25.00	SF	12.00	12.00	0.00	0%
	Signs Type II Reflective F						
0118							

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638.2602		25.00	EACH	4.00	4.00	0.00	0%
	Removing Signs Type II						
	0120						
638.3000		25.00	EACH	4.00	4.00	0.00	0%
	Removing Small Sign Supports						
	0122						
642.5001		1400.00	EACH	1.00	1.00	0.00	0%
	Field Office Type B						
	0124						
643.0100		2644.48	EACH	1.00	1.00	0.00	0%
	Traffic Control (project)						
	0126			01. 5587-00-72			
645.0111		3.00	SY	100.00	86.00	-14.00	-14%
	Geotextile Type DF Schedule A						
	0128	Item was partially completed before the Flood washed material out Remaining work was done and paid under Contract Mod 2.					

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645.0120		3.00	SY	890.00	949.00	+59.00	+7%
	Geotextile Type HR						
	0130						
645.0130		3.00	SY	473.00	353.00	-120.00	-25%
	Geotextile Type R						
	0132 The site conditions didn't require the plan quantity for this item.						
646.0106		2.30	LF	1,535.00	2,032.00	+497.00	+32%
	Pavement Marking Epoxy 4-Inch						
	0134 Due to the road alignment change, for safety considerations, the Project had to match into the existing pavement markings past the project limits so additional pavement marking was recommended by WisDOT.						
650.4000		250.00	EACH	2.00	2.00	0.00	0%
	Construction Staking Storm Sewer						
	0136						
650.4500		.00	LF	520.00	0.00	-520.00	-100%
	Construction Staking Subgrade						
	0138 Item was not used. The dirt subcontractor used the existing slope stakes and GPS to cut subgrade. IIW field verified.						

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650.5000		.00	LF	520.00	520.00	0.00	0%
	Construction Staking Base						
0140							
650.6500		2500.00	LS	1.00	1.00	0.00	0%
	Construction Staking Structure Layout						
0142				01. B-22-286			
650.9910		500.00	LS	1.00	1.00	0.00	0%
	Const Staking Supplemental Contrl (proj)						
0144				01. 5587-00-72			
650.9920		.40	LF	520.00	520.00	0.00	0%
	Construction Staking Slope Stakes						
0146							
690.0150		2.25	LF	295.00	277.00	-18.00	-6%
	Sawing Asphalt						
0148							

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715.0502		1.00	DOL	1,284.00	0.00	-1,284.00	-100%
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Incentive Strength Conc Structures

0150 NO PAYMENT FOR INCENTIVE STRENGTH CONCRETE STRUCTURES. THE STANDARD DEVIATION WAS 739.7 AND SPECIFICATION 715.5.3 (2) STRUCTURES, WILL NOT PAY INCENTIVE IF THE LOT STANDARD DEVIATION IS GREATER THAN 350 PSI.

804.6060		1.00	DOL	1,830.00	7,230.00	+5,400.00	+295%
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Ice Hot Weather Concreting

0161 Additional quantity was needed due to the duration of the hot weather. Ice Hot Weather Concreting \$0.75/LB. Ice

SS Added to contract to maintain concrete temperatures that are within specification.

ASP.1T0A		5.00	HRS	1,200.00	0.00	-1,200.00	-100%
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On-the-Job Training Apprentice \$5.00/HR

0152 No Apprentice onsite.

ASP.1T0G		5.00	HRS	600.00	0.00	-600.00	-100%
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On-the-Job Training Graduate at \$5.00/HR

0154 No Apprentice onsite.

SPV.0055		120794.11	DOL	1.00	1.00	0.00	0%
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Special

0181 0055.01 Flood Repair

MI Repaired flood damaged areas on the Project.