

North Carolina Department of Transportation  
DIVISION 3

ENGINEERS ESTIMATE

Contract No: D3POC0039

WBS Number: 3.108239.3.108220 etc.  
Description: Guardrail/Guiderail Installation and Maintenance

Date: 10/21/2017  
County: Division 3

ITEM	DESC. NO.	SECT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT BID
10	000100000-N	800	Emergency Non-Functional Mobilization	30	Each	300.00	9,000.00
20	000100000-N	800	Routine Functional Maintenance and Repair Mobilization	30	Each	350.00	10,500.00
30	300000000-N	SP	Type CAT-350 Impact Attenuator Unit	5	Each	7,000.00	35,000.00
40	303000000-E	862	Steel Beam Guardrail (Rail Only)	250	LF	15.00	3,750.00
50	303000000-E	862	Steel Beam Guardrail (With Steel Posts)	1000	LF	19.00	19,000.00
60	303000000-E	862	Steel Beam Guardrail (With Wooded Posts)	250	LF	10.00	2,500.00
70	304500000-E	862	Steel Beam Guardrail, Shop Curve (Various Radii)	100	LF	20.00	2,000.00
80	304000000-E	862	Steel Beam Guardrail, Double Faced	250	LF	20.00	5,000.00
90	307500000-N	862	Triple Corrugated Steel Beam Guardrail	5	LF	75.00	375.00
100	309000000-N	862	Typical End Shoe for Triple Corrugated Steel Beam Guardrail	1	Each	250.00	250.00
110	310500000-N	862	Steel Beam Guardrail Terminal End Section	1	Each	100.00	100.00
120	313500000-N	862	W-TR Steel Beam Guardrail Transition Section	1	Each	400.00	400.00
130	315000000-N	862	Additional Steel Guardrail Posts with Blocks	50	Each	75.00	3,750.00
140	315000000-N	862	Additional Wood Guardrail Posts with Blocks	5	Each	50.00	250.00
150	319500000-N	862	Guardrail Anchor Units, Type AT-1	12	Each	200.00	2,400.00
160	321000000-N	862	Guardrail Anchor Units, Type CAT-1	12	Each	800.00	6,000.00
170	327000000-N	SP	Guardrail Anchor Units, Type 350	12	Each	2,500.00	30,000.00
180	328500000-N	SP	Guardrail Anchor Units, Type M-350	12	Each	2,000.00	24,000.00
190	334500000-E	864	Remove and Reset Existing Guardrail	100	LF	15.00	1,500.00
200	334700000-E	864	Cable Guiderail-Reset (Materials & Labor)	5000	LF	7.00	35,000.00
210	338920000-E	865	New Guiderail Cable (Cable Only)	100	LF	10.00	1,000.00
220	338950000-N	SP	Additional Cable Guiderail Posts	20	Each	100.00	2,000.00
230	338960000-N	865	Cable Guiderail Anchor Unit	5	Each	1,000.00	5,000.00
240	343500000-N	SP	Additional Cable Guiderail Hook Bolts	500	Each	2.00	1,000.00
250	343500000-N	SP	Cable Guiderail End Post Bearing Plates	5	Each	10.00	50.00
260	343500000-N	SP	Cable Guiderail Breakaway Anchor Angles	5	Each	10.00	50.00
270	343500000-N	SP	Cable Guiderail End Post Caps	5	Each	25.00	125.00
280	343500000-N	SP	Cable Guiderail Splices	5	Each	10.00	50.00
290	343500000-N	SP	Cable Guiderail Spring Cable End Assemblies	5	Each	25.00	125.00
300	343500000-N	SP	Cable Guiderail Turnbuckles	5	Each	50.00	250.00
310	343500000-N	SP	Re-tensioning Cable Guiderail	20	Each	100.00	2,000.00
320	343600000-N	862	Buffer End Section (only) for CAT-1, AT-1 Anchor Units	1	Each	500.00	500.00
330	343600000-N	862	Guardrail Structure Post	5	Each	300.00	1,500.00
340	343600000-N	862	Steel Beam Guardrail Typical End Shoe	1	Each	300.00	300.00
350	460000000-N	SP	Traffic Control (Shoulder Closure)	50	Each	400.00	20,000.00
360	460000000-N	SP	Traffic Control (Full Lane Closure Two Lane)	50	Each	300.00	15,000.00
370	460000000-N	SP	Traffic Control (Full Lane Closure Multi Lane)	50	Each	500.00	25,000.00

Engineer's Estimate 264,835.00  
Engineering 39,723.75  
Total 304,558.75

Computed By: Chris Rhodes Date: 10/21/2016

WBE: %	MBE: %	DBE: %
Eng Estimate	% over / under	
\$239,858.00	-6.10%	

T L C WORKS

Contract No: D3POC0039

WBS Number: 3.108239.3.108220 etc.  
Description: Guardrail/Guiderail Installation and Maintenance

Date: 10/21/2017  
County: Division 3

ITEM	DESC. NO.	SECT	DESCRIPTION	QUANTITY	UNIT	UNIT PRICE	AMOUNT BID
10	000100000-N	800	Emergency Non-Functional Mobilization	30	Each	200.00	6,000.00
20	000100000-N	800	Routine Functional Maintenance and Repair Mobilization	30	Each	1.00	30.00
30	300000000-N	SP	Type CAT-350 Impact Attenuator Unit	5	Each	15,000.00	75,000.00
40	303000000-E	862	Steel Beam Guardrail (Rail Only)	250	LF	14.00	3,500.00
50	303000000-E	862	Steel Beam Guardrail (With Steel Posts)	1000	LF	16.00	16,000.00
60	303000000-E	862	Steel Beam Guardrail (With Wooded Posts)	250	LF	1.00	250.00
70	304500000-E	862	Steel Beam Guardrail, Shop Curve (Various Radii)	100	LF	15.00	1,500.00
80	304000000-E	862	Steel Beam Guardrail, Double Faced	250	LF	1.00	250.00
90	307500000-N	862	Triple Corrugated Steel Beam Guardrail	5	LF	45.00	225.00
100	309000000-N	862	Typical End Shoe for Triple Corrugated Steel Beam Guardrail	1	Each	300.00	300.00
110	310500000-N	862	Steel Beam Guardrail Terminal End Section	1	Each	300.00	300.00
120	313500000-N	862	W-TR Steel Beam Guardrail Transition Section	1	Each	400.00	400.00
130	315000000-N	862	Additional Steel Guardrail Posts with Blocks	50	Each	100.00	5,000.00
140	315000000-N	862	Additional Wood Guardrail Posts with Blocks	5	Each	10.00	50.00
150	319500000-N	862	Guardrail Anchor Units, Type AT-1	12	Each	1.00	12.00
160	321000000-N	862	Guardrail Anchor Units, Type CAT-1	12	Each	400.00	4,800.00
170	327000000-N	SP	Guardrail Anchor Units, Type 350	12	Each	2,000.00	24,000.00
180	328500000-N	SP	Guardrail Anchor Units, Type M-350	12	Each	1,500.00	18,000.00
190	334500000-E	864	Remove and Reset Existing Guardrail	100	LF	10.00	1,000.00
200	334700000-E	864	Cable Guiderail-Reset (Materials & Labor)	5000	LF	6.00	30,000.00
210	338920000-E	865	New Guiderail Cable (Cable Only)	100	LF	6.00	600.00
220	338950000-N	SP	Additional Cable Guiderail Posts	20	Each	50.00	1,000.00
230	338960000-N	865	Cable Guiderail Anchor Unit	5	Each	1,000.00	5,000.00
240	343500000-N	SP	Additional Cable Guiderail Hook Bolts	500	Each	2.00	1,000.00
250	343500000-N	SP	Cable Guiderail End Post Bearing Plates	5	Each	1.00	5.00
260	343500000-N	SP	Cable Guiderail Breakaway Anchor Angles	5	Each	1.00	5.00
270	343500000-N	SP	Cable Guiderail End Post Caps	5	Each	1.00	5.00
280	343500000-N	SP	Cable Guiderail Splices	5	Each	100.00	500.00
290	343500000-N	SP	Cable Guiderail Spring Cable End Assemblies	5	Each	100.00	500.00
300	343500000-N	SP	Cable Guiderail Turnbuckles	5	Each	100.00	500.00
310	343500000-N	SP	Re-tensioning Cable Guiderail	20	Each	100.00	2,000.00
320	343600000-N	862	Buffer End Section (only) for CAT-1, AT-1 Anchor Units	1	Each	400.00	400.00
330	343600000-N	862	Guardrail Structure Post	5	Each	250.00	1,250.00
340	343600000-N	862	Steel Beam Guardrail Typical End Shoe	1	Each	400.00	400.00
350	460000000-N	SP	Traffic Control (Shoulder Closure)	50	Each	500.00	25,000.00
360	460000000-N	SP	Traffic Control (Full Lane Closure Two Lane)	50	Each	300.00	15,000.00
370	460000000-N	SP	Traffic Control (Full Lane Closure Multi Lane)	50	Each	600.00	30,000.00

Engineer's Estimate 269,782.00  
Engineering

Computed By: Chris Rhodes Date: 10/21/2016

WBE: %	MBE: %	DBE: %
Eng Estimate	% over / under	
\$239,825.00	-6.12%	