

LAK-2-0.00

REINFORCING STEEL LIST

Mark	No.	Length	Weight	Shp.	Bending Diagrams																																																																																																																																																																																																																																																																																																												
SUPERSTRUCTURE																																																																																																																																																																																																																																																																																																																	
ABUTMENTS					<table border="1"> <thead> <tr> <th>Mark</th> <th>No.</th> <th>Length</th> <th>Weight</th> <th>Shp.</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr><td>A1001</td><td>32</td><td>29'5"</td><td>4051</td><td>S</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>A801</td><td>32</td><td>30'1"</td><td>2570</td><td>S</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>A501</td><td>32</td><td>28'7"</td><td>954</td><td>S</td><td>0</td><td>0</td><td>0</td><td>0</td></tr> <tr><td>A502</td><td>16</td><td>29'7"</td><td>494</td><td>S</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr><td>A503</td><td>304</td><td>6'7"</td><td>2087</td><td>B</td><td>76</td><td>76</td><td>76</td><td>76</td></tr> <tr><td>A504</td><td>38</td><td>11'5"</td><td>452</td><td>B</td><td>19</td><td>19</td><td>0</td><td>0</td></tr> <tr><td>A505</td><td>12</td><td>6'3"</td><td>78</td><td>B</td><td>3</td><td>3</td><td>3</td><td>3</td></tr> <tr><td>A506</td><td>12</td><td>6'3"</td><td>78</td><td>B</td><td>3</td><td>3</td><td>3</td><td>3</td></tr> <tr><td>A507</td><td>32</td><td>13'10"</td><td>462</td><td>S</td><td>8</td><td>8</td><td>8</td><td>8</td></tr> <tr><td>A508</td><td>12</td><td>6'11"</td><td>87</td><td>S</td><td>6</td><td>6</td><td>0</td><td>0</td></tr> <tr><td>A509</td><td>48</td><td>3'1"</td><td>154</td><td>S</td><td>12</td><td>12</td><td>12</td><td>12</td></tr> <tr><td>A510</td><td>16</td><td>7'10"</td><td>131</td><td>S</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr><td>A511</td><td>48</td><td>7'1"</td><td>355</td><td>B</td><td>12</td><td>12</td><td>12</td><td>12</td></tr> <tr><td>A512</td><td>32</td><td>8'3"</td><td>275</td><td>S</td><td>8</td><td>8</td><td>8</td><td>8</td></tr> <tr><td>A513</td><td>8</td><td>12'7"</td><td>105</td><td>S</td><td>2</td><td>2</td><td>2</td><td>2</td></tr> <tr><td>A514</td><td>8</td><td>12'6"</td><td>104</td><td>B</td><td>2</td><td>2</td><td>2</td><td>2</td></tr> <tr><td>A515</td><td>48</td><td>5'3"</td><td>263</td><td>B</td><td>12</td><td>12</td><td>12</td><td>12</td></tr> <tr><td>A516</td><td>16</td><td>4'11"</td><td>82</td><td>B</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr><td>A517</td><td>16</td><td>4'7"</td><td>76</td><td>B</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr><td>A518</td><td>16</td><td>4'1"</td><td>68</td><td>B</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr><td>A519</td><td>16</td><td>3'5"</td><td>57</td><td>B</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr><td>A520</td><td>24</td><td>6'6"</td><td>163</td><td>S</td><td>6</td><td>6</td><td>6</td><td>6</td></tr> <tr><td>A521</td><td>12</td><td>7'10"</td><td>98</td><td>S</td><td>0</td><td>0</td><td>6</td><td>6</td></tr> <tr><td>A522</td><td>76</td><td>11'11"</td><td>945</td><td>B</td><td>19</td><td>19</td><td>19</td><td>19</td></tr> <tr><td>A523</td><td>8</td><td>12'8"</td><td>106</td><td>S</td><td>2</td><td>2</td><td>2</td><td>2</td></tr> <tr><td>A524</td><td>8</td><td>12'10"</td><td>107</td><td>B</td><td>2</td><td>2</td><td>2</td><td>2</td></tr> <tr><td>A525</td><td>38</td><td>13'3"</td><td>525</td><td>B</td><td>0</td><td>0</td><td>19</td><td>19</td></tr> <tr><td>V501</td><td>48</td><td>4'6"</td><td>221</td><td>B</td><td>12</td><td>12</td><td>12</td><td>12</td></tr> <tr><td>V504</td><td>16</td><td>11'0"</td><td>*</td><td>S</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr><td>V505</td><td>16</td><td>11'7"</td><td>*</td><td>S</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> </tbody> </table>				Mark	No.	Length	Weight	Shp.	1	2	3	4	A1001	32	29'5"	4051	S	0	0	0	0	A801	32	30'1"	2570	S	0	0	0	0	A501	32	28'7"	954	S	0	0	0	0	A502	16	29'7"	494	S	4	4	4	4	A503	304	6'7"	2087	B	76	76	76	76	A504	38	11'5"	452	B	19	19	0	0	A505	12	6'3"	78	B	3	3	3	3	A506	12	6'3"	78	B	3	3	3	3	A507	32	13'10"	462	S	8	8	8	8	A508	12	6'11"	87	S	6	6	0	0	A509	48	3'1"	154	S	12	12	12	12	A510	16	7'10"	131	S	4	4	4	4	A511	48	7'1"	355	B	12	12	12	12	A512	32	8'3"	275	S	8	8	8	8	A513	8	12'7"	105	S	2	2	2	2	A514	8	12'6"	104	B	2	2	2	2	A515	48	5'3"	263	B	12	12	12	12	A516	16	4'11"	82	B	4	4	4	4	A517	16	4'7"	76	B	4	4	4	4	A518	16	4'1"	68	B	4	4	4	4	A519	16	3'5"	57	B	4	4	4	4	A520	24	6'6"	163	S	6	6	6	6	A521	12	7'10"	98	S	0	0	6	6	A522	76	11'11"	945	B	19	19	19	19	A523	8	12'8"	106	S	2	2	2	2	A524	8	12'10"	107	B	2	2	2	2	A525	38	13'3"	525	B	0	0	19	19	V501	48	4'6"	221	B	12	12	12	12	V504	16	11'0"	*	S	4	4	4	4	V505	16	11'7"	*	S	4	4	4	4																		
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A525	38	13'3"	525	B	0	0	19	19																																																																																																																																																																																																																																																																																																									
V501	48	4'6"	221	B	12	12	12	12																																																																																																																																																																																																																																																																																																									
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PIERS					<table border="1"> <thead> <tr> <th>Mark</th> <th>No.</th> <th>Length</th> <th>Weight</th> <th>Shp.</th> <th>1</th> <th>2</th> <th>3</th> <th>4</th> </tr> </thead> <tbody> <tr><td>P1101</td><td>160</td><td>6'9"</td><td>5738</td><td>B</td><td>40</td><td>40</td><td>40</td><td>40</td></tr> <tr><td>P1102</td><td>20</td><td>18'5"</td><td>1957</td><td>S</td><td>20</td><td></td><td></td><td></td></tr> <tr><td>P1103</td><td>20</td><td>19'0"</td><td>2019</td><td>S</td><td>20</td><td></td><td></td><td></td></tr> <tr><td>P1104</td><td>20</td><td>19'2"</td><td>2037</td><td>S</td><td></td><td>20</td><td></td><td></td></tr> <tr><td>P1105</td><td>20</td><td>19'10"</td><td>2107</td><td>S</td><td></td><td>20</td><td></td><td></td></tr> <tr><td>P1106</td><td>20</td><td>17'6"</td><td>1860</td><td>S</td><td></td><td></td><td>20</td><td></td></tr> <tr><td>P1107</td><td>20</td><td>18'9"</td><td>1992</td><td>S</td><td></td><td></td><td>20</td><td></td></tr> <tr><td>P1108</td><td>20</td><td>18'3"</td><td>1939</td><td>S</td><td></td><td></td><td></td><td>20</td></tr> <tr><td>P1109</td><td>20</td><td>19'6"</td><td>2072</td><td>S</td><td></td><td></td><td></td><td>20</td></tr> <tr><td>P1001</td><td>96</td><td>6'4"</td><td>2616</td><td>B</td><td>24</td><td>24</td><td>24</td><td>24</td></tr> <tr><td>P1002</td><td>16</td><td>18'7"</td><td>1279</td><td>S</td><td>8</td><td></td><td></td><td>8</td></tr> <tr><td>P1003</td><td>8</td><td>18'9"</td><td>645</td><td>S</td><td>8</td><td></td><td></td><td></td></tr> <tr><td>P1004</td><td>16</td><td>18'11"</td><td>1302</td><td>S</td><td>8</td><td></td><td></td><td>8</td></tr> <tr><td>P1005</td><td>8</td><td>19'4"</td><td>667</td><td>S</td><td></td><td>8</td><td></td><td></td></tr> <tr><td>P1006</td><td>8</td><td>19'6"</td><td>671</td><td>S</td><td></td><td>8</td><td></td><td></td></tr> <tr><td>P1007</td><td>8</td><td>19'8"</td><td>677</td><td>S</td><td></td><td>8</td><td></td><td></td></tr> <tr><td>P1008</td><td>8</td><td>17'10"</td><td>614</td><td>S</td><td></td><td></td><td>8</td><td></td></tr> <tr><td>P1009</td><td>8</td><td>18'1"</td><td>622</td><td>S</td><td></td><td></td><td>8</td><td></td></tr> <tr><td>P1010</td><td>8</td><td>18'5"</td><td>634</td><td>S</td><td></td><td></td><td>8</td><td></td></tr> <tr><td>P1011</td><td>8</td><td>19'2"</td><td>660</td><td>S</td><td></td><td></td><td></td><td>8</td></tr> <tr><td>P901</td><td>64</td><td>25'7"</td><td>5567</td><td>S</td><td>16</td><td>16</td><td>16</td><td>16</td></tr> <tr><td>P902</td><td>64</td><td>8'9"</td><td>1904</td><td>B</td><td>16</td><td>16</td><td>16</td><td>16</td></tr> <tr><td>P903</td><td>72</td><td>12'2"</td><td>2379</td><td>B</td><td>18</td><td>18</td><td>18</td><td>18</td></tr> <tr><td>P904</td><td>80</td><td>13'2"</td><td>3582</td><td>B</td><td>20</td><td>20</td><td>20</td><td>20</td></tr> <tr><td>P905</td><td>28</td><td>11'2"</td><td>1063</td><td>B</td><td>7</td><td>7</td><td>7</td><td>7</td></tr> <tr><td>P801</td><td>16</td><td>27'4"</td><td>1168</td><td>S</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr><td>P802</td><td>16</td><td>8'4"</td><td>356</td><td>B</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr><td>P803</td><td>32</td><td>29'9"</td><td>2542</td><td>B</td><td>8</td><td>8</td><td>8</td><td>8</td></tr> <tr><td>P601</td><td>260</td><td>9'0"</td><td>3515</td><td>B</td><td>65</td><td>65</td><td>65</td><td>65</td></tr> <tr><td>P501</td><td>16</td><td>26'11"</td><td>449</td><td>S</td><td>4</td><td>4</td><td>4</td><td>4</td></tr> <tr><td>P502</td><td>224</td><td>6'11"</td><td>1615</td><td>B</td><td>56</td><td>56</td><td>56</td><td>56</td></tr> <tr><td>P503</td><td>8</td><td>6'6"</td><td>54</td><td>B</td><td>2</td><td>2</td><td>2</td><td>2</td></tr> </tbody> </table>				Mark	No.	Length	Weight	Shp.	1	2	3	4	P1101	160	6'9"	5738	B	40	40	40	40	P1102	20	18'5"	1957	S	20				P1103	20	19'0"	2019	S	20				P1104	20	19'2"	2037	S		20			P1105	20	19'10"	2107	S		20			P1106	20	17'6"	1860	S			20		P1107	20	18'9"	1992	S			20		P1108	20	18'3"	1939	S				20	P1109	20	19'6"	2072	S				20	P1001	96	6'4"	2616	B	24	24	24	24	P1002	16	18'7"	1279	S	8			8	P1003	8	18'9"	645	S	8				P1004	16	18'11"	1302	S	8			8	P1005	8	19'4"	667	S		8			P1006	8	19'6"	671	S		8			P1007	8	19'8"	677	S		8			P1008	8	17'10"	614	S			8		P1009	8	18'1"	622	S			8		P1010	8	18'5"	634	S			8		P1011	8	19'2"	660	S				8	P901	64	25'7"	5567	S	16	16	16	16	P902	64	8'9"	1904	B	16	16	16	16	P903	72	12'2"	2379	B	18	18	18	18	P904	80	13'2"	3582	B	20	20	20	20	P905	28	11'2"	1063	B	7	7	7	7	P801	16	27'4"	1168	S	4	4	4	4	P802	16	8'4"	356	B	4	4	4	4	P803	32	29'9"	2542	B	8	8	8	8	P601	260	9'0"	3515	B	65	65	65	65	P501	16	26'11"	449	S	4	4	4	4	P502	224	6'11"	1615	B	56	56	56	56	P503	8	6'6"	54	B	2	2	2	2
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P1109	20	19'6"	2072	S				20																																																																																																																																																																																																																																																																																																									
P1001	96	6'4"	2616	B	24	24	24	24																																																																																																																																																																																																																																																																																																									
P1002	16	18'7"	1279	S	8			8																																																																																																																																																																																																																																																																																																									
P1003	8	18'9"	645	S	8																																																																																																																																																																																																																																																																																																												
P1004	16	18'11"	1302	S	8			8																																																																																																																																																																																																																																																																																																									
P1005	8	19'4"	667	S		8																																																																																																																																																																																																																																																																																																											
P1006	8	19'6"	671	S		8																																																																																																																																																																																																																																																																																																											
P1007	8	19'8"	677	S		8																																																																																																																																																																																																																																																																																																											
P1008	8	17'10"	614	S			8																																																																																																																																																																																																																																																																																																										
P1009	8	18'1"	622	S			8																																																																																																																																																																																																																																																																																																										
P1010	8	18'5"	634	S			8																																																																																																																																																																																																																																																																																																										
P1011	8	19'2"	660	S				8																																																																																																																																																																																																																																																																																																									
P901	64	25'7"	5567	S	16	16	16	16																																																																																																																																																																																																																																																																																																									
P902	64	8'9"	1904	B	16	16	16	16																																																																																																																																																																																																																																																																																																									
P903	72	12'2"	2379	B	18	18	18	18																																																																																																																																																																																																																																																																																																									
P904	80	13'2"	3582	B	20	20	20	20																																																																																																																																																																																																																																																																																																									
P905	28	11'2"	1063	B	7	7	7	7																																																																																																																																																																																																																																																																																																									
P801	16	27'4"	1168	S	4	4	4	4																																																																																																																																																																																																																																																																																																									
P802	16	8'4"	356	B	4	4	4	4																																																																																																																																																																																																																																																																																																									
P803	32	29'9"	2542	B	8	8	8	8																																																																																																																																																																																																																																																																																																									
P601	260	9'0"	3515	B	65	65	65	65																																																																																																																																																																																																																																																																																																									
P501	16	26'11"	449	S	4	4	4	4																																																																																																																																																																																																																																																																																																									
P502	224	6'11"	1615	B	56	56	56	56																																																																																																																																																																																																																																																																																																									
P503	8	6'6"	54	B	2	2	2	2																																																																																																																																																																																																																																																																																																									
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The "Length" shown in the steel list for the spiral bars is the distance from the top of the footing to the bottom of the pier cap.

The "No. of Turns" shown is the "Length" divided by the "Pitch", plus three turns (total number of closed coils), expressed as the nearest whole number.

Spiral reinforcing bars shall not have deformations, but shall in other respects conform to Item S-4.

1/2 closed coils shall be provided at the ends of each spiral unit.

Four steel channel, tee or angle spacers, weighing approximately 0.68 lbs. per lin. ft. of spacer, shall be provided for each spiral unit. They shall be equally spaced along the periphery of the coil. The number of pounds of these spacers, based on 0.68 lbs. per lin. ft., will be paid for as reinforcing steel and is included in the tabulated quantity of spiral bars.

REPLACEMENT BARS: If reinforcing bars are fabricated from stock which has previously been tested and approved by the Ohio Highway Testing Laboratory, test samples as provided in Sec. S-402 need not be furnished and replacement bars will not be required.

* Included with railing, Item S-14, for payment.

ESTIMATED QUANTITIES

Item	Total	Unit	Description	Supcr.	Abut.	Pier	Gen'l	As Built
E-2	Lump	Sum	Cofferdams, cribs, and sheeting				Lump	
E-2	901	Cu. Yds.	Unclassified excavation, including shale		310	591		
S-1	1048	Cu. Yds.	Class "C" concrete, superstructure	1048				
S-1	167	Cu. Yds.	Class "C" concrete, pier columns and caps			167		
S-1	209	Cu. Yds.	Class "E" concrete, abutments		209			
S-1	151	Cu. Yds.	Class "E" concrete, pier footings			151		
S-4	303,770	Lbs.	Reinforcing steel	225,912	15,148	62,710		
S-9	16	Sq. ft.	1/4" preformed expansion joint filler	16				
S-14	620.00	Lin. ft.	Railing (aluminum rail and supports and concrete parapets)	526.04	93.96			
S-16	Lump	Sum	First test pile				Lump	
S-18	890	Lin. ft.	Steel piles, 12BP53		890			60.3 -107.2 782.8
S-29	38	Cu. Yds.	Porous backfill		38			
S-29	10	Each	Scuppers, Type A	10				
S-29	7	Each	Scuppers, Type B	7				

Revised As-Built

STATE OF OHIO
DEPARTMENT OF HIGHWAYS
DIVISION OF DESIGN AND CONSTRUCTION
BUREAU OF BRIDGES

REINFORCING STEEL LIST
ESTIMATED QUANTITIES
BRIDGE No. LAK-2-0105 L & R
OVER WORDEN ROAD
Sta. 155+41.40
Sta. 156+72.91
LAKE COUNTY

DESIGNED	DRAWN	TRACED	CHECKED	REVIEWED	DATE	REVISED
gmp	gmp	gmp	DGM	BFG	9/1/58	2-20-59

12-26-58

Revised As-Built VLA-6-11-63