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DATE:
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TABLE OF FOUNDATION LOADS - 0° SKEW

| Span Length | Drilled Shaft Loads | | | | Pile Loads | | | | |
|-------------|---------------------|------------|---------------|----------------|------------|-----------|-----------|---------------|----------------|
| | DC | LL | Service I (1) | Strength I (2) | DC | EH (3) | LL | Service I (1) | Strength I (2) |
| | Tons/Shaft | Tons/Shaft | Tons/Shaft | Tons/Shaft | Tons/Pile | Tons/Pile | Tons/Pile | Tons/Pile | Tons/Pile |
| 60 | 55 | 20 | 75 | 104 | 29 | 16 | 20 | 65 | 95 |
| 65 | 58 | 21 | 79 | 109 | 30 | 16 | 20 | 66 | 97 |
| 70 | 62 | 22 | 84 | 116 | 32 | 16 | 21 | 69 | 101 |
| 75 | 65 | 22 | 87 | 120 | 34 | 16 | 21 | 71 | 103 |
| 80 | 68 | 23 | 91 | 125 | 35 | 16 | 21 | 72 | 105 |
| 85 | 71 | 23 | 94 | 129 | 37 | 16 | 21 | 74 | 107 |
| 90 | 74 | 24 | 98 | 135 | 39 | 16 | 22 | 77 | 111 |
| 95 | 77 | 24 | 101 | 138 | 40 | 16 | 22 | 78 | 113 |
| 100 | 81 | 25 | 106 | 145 | 42 | 16 | 22 | 80 | 115 |
| 105 | 84 | 25 | 109 | 149 | 43 | 16 | 22 | 81 | 116 |
| 110 | 87 | 26 | 113 | 154 | 45 | 16 | 23 | 84 | 121 |
| 115 | 90 | 26 | 116 | 158 | 47 | 16 | 23 | 86 | 123 |
| 120 | 93 | 27 | 120 | 164 | 48 | 16 | 23 | 87 | 124 |
| 125 | 96 | 27 | 123 | 167 | 50 | 16 | 23 | 89 | 127 |
| 130 | 100 | 28 | 128 | 174 | 52 | 16 | 24 | 92 | 131 |
| 135 | 103 | 28 | 131 | 178 | 53 | 16 | 24 | 93 | 132 |

TABLE OF FOUNDATION LOADS - 15° SKEW

| Span Length | Drilled Shaft Loads | | | | Pile Loads | | | | |
|-------------|---------------------|------------|---------------|----------------|------------|-----------|-----------|---------------|----------------|
| | DC | LL | Service I (1) | Strength I (2) | DC | EH (3) | LL | Service I (1) | Strength I (2) |
| | Tons/Shaft | Tons/Shaft | Tons/Shaft | Tons/Shaft | Tons/Pile | Tons/Pile | Tons/Pile | Tons/Pile | Tons/Pile |
| 60 | 56 | 20 | 76 | 105 | 29 | 17 | 20 | 66 | 97 |
| 65 | 59 | 21 | 80 | 111 | 31 | 17 | 21 | 69 | 101 |
| 70 | 62 | 22 | 84 | 116 | 32 | 17 | 21 | 70 | 102 |
| 75 | 65 | 22 | 87 | 120 | 34 | 17 | 21 | 72 | 105 |
| 80 | 68 | 23 | 91 | 125 | 35 | 17 | 21 | 73 | 106 |
| 85 | 72 | 23 | 95 | 130 | 37 | 17 | 22 | 76 | 110 |
| 90 | 75 | 24 | 99 | 136 | 39 | 17 | 22 | 78 | 113 |
| 95 | 78 | 24 | 102 | 140 | 40 | 17 | 22 | 79 | 114 |
| 100 | 81 | 25 | 106 | 145 | 42 | 17 | 22 | 81 | 117 |
| 105 | 84 | 25 | 109 | 149 | 44 | 17 | 23 | 84 | 121 |
| 110 | 87 | 26 | 113 | 154 | 45 | 17 | 23 | 85 | 122 |
| 115 | 91 | 26 | 117 | 159 | 47 | 17 | 23 | 87 | 125 |
| 120 | 94 | 27 | 121 | 165 | 48 | 17 | 23 | 88 | 126 |
| 125 | 97 | 27 | 124 | 169 | 50 | 17 | 24 | 91 | 130 |
| 130 | 100 | 28 | 128 | 174 | 52 | 17 | 24 | 93 | 133 |
| 135 | 103 | 28 | 131 | 178 | 53 | 17 | 24 | 94 | 134 |

TABLE OF FOUNDATION LOADS - 30° SKEW

| Span Length | Drilled Shaft Loads | | | | Pile Loads | | | | |
|-------------|---------------------|------------|---------------|----------------|------------|-----------|-----------|---------------|----------------|
| | DC | LL | Service I (1) | Strength I (2) | DC | EH (3) | LL | Service I (1) | Strength I (2) |
| | Tons/Shaft | Tons/Shaft | Tons/Shaft | Tons/Shaft | Tons/Pile | Tons/Pile | Tons/Pile | Tons/Pile | Tons/Pile |
| 60 | 57 | 20 | 77 | 106 | 30 | 18 | 21 | 69 | 101 |
| 65 | 60 | 21 | 81 | 112 | 31 | 18 | 21 | 70 | 103 |
| 70 | 63 | 22 | 85 | 117 | 33 | 18 | 22 | 73 | 107 |
| 75 | 66 | 22 | 88 | 121 | 34 | 18 | 22 | 74 | 108 |
| 80 | 70 | 23 | 93 | 128 | 36 | 18 | 22 | 76 | 111 |
| 85 | 73 | 23 | 96 | 132 | 38 | 18 | 22 | 78 | 113 |
| 90 | 76 | 24 | 100 | 137 | 39 | 18 | 23 | 80 | 116 |
| 95 | 79 | 24 | 103 | 141 | 41 | 18 | 23 | 82 | 119 |
| 100 | 82 | 25 | 107 | 146 | 43 | 18 | 23 | 84 | 121 |
| 105 | 85 | 25 | 110 | 150 | 44 | 18 | 24 | 86 | 124 |
| 110 | 88 | 26 | 114 | 156 | 46 | 18 | 24 | 88 | 127 |
| 115 | 92 | 26 | 118 | 161 | 47 | 18 | 24 | 89 | 128 |
| 120 | 95 | 27 | 122 | 166 | 49 | 18 | 24 | 91 | 130 |
| 125 | 98 | 27 | 125 | 170 | 51 | 18 | 24 | 93 | 133 |
| 130 | 101 | 28 | 129 | 175 | 52 | 18 | 25 | 95 | 136 |
| 135 | 104 | 28 | 132 | 179 | 54 | 18 | 25 | 97 | 138 |

TABLE OF FOUNDATION LOADS - 45° SKEW

| Span Length | Drilled Shaft Loads | | | | Pile Loads | | | | |
|-------------|---------------------|------------|---------------|----------------|------------|-----------|-----------|---------------|----------------|
| | DC | LL | Service I (1) | Strength I (2) | DC | EH (3) | LL | Service I (1) | Strength I (2) |
| | Tons/Shaft | Tons/Shaft | Tons/Shaft | Tons/Shaft | Tons/Pile | Tons/Pile | Tons/Pile | Tons/Pile | Tons/Pile |
| 60 | 48 | 16 | 64 | 88 | 25 | 17 | 18 | 60 | 88 |
| 65 | 50 | 17 | 67 | 92 | 26 | 17 | 18 | 61 | 90 |
| 70 | 53 | 17 | 70 | 96 | 27 | 17 | 19 | 63 | 93 |
| 75 | 55 | 18 | 73 | 100 | 29 | 17 | 19 | 65 | 95 |
| 80 | 58 | 18 | 76 | 104 | 30 | 17 | 19 | 66 | 96 |
| 85 | 60 | 19 | 79 | 108 | 31 | 17 | 19 | 67 | 98 |
| 90 | 63 | 19 | 82 | 112 | 33 | 17 | 20 | 70 | 102 |
| 95 | 65 | 20 | 85 | 116 | 34 | 17 | 20 | 71 | 103 |
| 100 | 68 | 20 | 88 | 120 | 35 | 17 | 20 | 72 | 104 |
| 105 | 70 | 20 | 90 | 123 | 37 | 17 | 20 | 74 | 107 |
| 110 | 73 | 21 | 94 | 128 | 38 | 17 | 20 | 75 | 108 |
| 115 | 75 | 21 | 96 | 131 | 39 | 17 | 21 | 77 | 111 |
| 120 | 78 | 21 | 99 | 134 | 40 | 17 | 21 | 78 | 112 |
| 125 | 81 | 22 | 103 | 140 | 42 | 17 | 21 | 80 | 115 |
| 130 | 83 | 22 | 105 | 142 | 43 | 17 | 21 | 81 | 116 |
| 135 | 86 | 23 | 109 | 148 | 44 | 17 | 21 | 82 | 117 |

- ① 1.00DC + 1.00EH + 1.00LL (all other loads not included)
- ② 1.25DC + 1.50EH + 1.75LL (all other loads not included)
- ③ Axial load due to the soil pressure acting on the backwall, which is generated due to the pile batter.


GENERAL NOTES:
Designed according to AASHTO LRFD Bridge Design Specifications.

FOR DESIGNER'S INFORMATION ONLY.
Loads included here within are to be added to the Foundation Notes sheet.

The values shown on these sheets are applicable for use only with the I-girder abutments shown on the standards AIG-62-34, AIG-62-34-15, AIG-62-34-30, and AIG-62-34-45.

NOT A STANDARD / NOT FOR INCLUSION IN THE PLANS.

HL93 LOADING

| | | | | | |
|--|-----------|-----------|-----------|--------------------------|---------|
|  | | | | Bridge Division Standard | |
| ABUTMENT FOUNDATION LOADS PRESTR CONCRETE I-GIRDERS TYPE Tx62 34' ROADWAY IG-AFL6234-24 | | | | | |
| FILE: IG-AFL6234-24.dgn | DN: TxDOT | CK: TxDOT | DW: TxDOT | CK: TxDOT | |
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