

**PILE LAYOUT**

| Pile | Offset* | Top of Wall El. | Top of Pile Elevation | Bott. of Facing Elevation | Section | Pile Tip Elevation | Pile Length |
|------|---------|-----------------|-----------------------|---------------------------|---------|--------------------|-------------|
| P-1  | 124.15  | 14.10           | 13.10                 | 10.14                     | W14x61  | -9.24              | 22.33       |
| P-2  | 124.13  | 14.27           | 13.27                 | 10.27                     | W14x61  | -9.24              | 22.51       |
| P-3  | 124.12  | 14.45           | 13.45                 | 10.40                     | W14x61  | -9.24              | 22.69       |
| P-4  | 124.10  | 14.63           | 13.63                 | 10.67                     | W14x61  | -8.73              | 22.36       |
| P-5  | 124.09  | 14.81           | 13.81                 | 10.81                     | W14x61  | -8.73              | 22.54       |
| P-6  | 124.07  | 14.99           | 13.99                 | 10.94                     | W14x61  | -8.73              | 22.72       |
| P-7  | 124.05  | 15.15           | 14.15                 | 11.19                     | W14x61  | -8.61              | 22.77       |
| P-8  | 124.04  | 15.30           | 14.30                 | 11.30                     | W14x61  | -8.61              | 22.92       |
| P-9  | 124.02  | 15.45           | 14.45                 | 11.42                     | W14x61  | -8.61              | 23.07       |
| P-10 | 124.01  | 15.59           | 14.59                 | 11.62                     | W14x61  | -8.98              | 23.58       |
| P-11 | 123.99  | 15.72           | 14.72                 | 11.72                     | W14x61  | -8.98              | 23.71       |
| P-12 | 123.97  | 15.85           | 14.85                 | 11.81                     | W14x61  | -8.98              | 23.84       |
| P-13 | 123.96  | 15.98           | 14.98                 | 11.81                     | W14x61  | -9.38              | 24.36       |
| P-14 | 123.94  | 16.11           | 15.11                 | 11.71                     | W14x61  | -9.38              | 24.49       |
| P-15 | 123.93  | 16.24           | 15.24                 | 11.61                     | W14x61  | -9.38              | 24.61       |
| P-16 | 123.91  | 16.36           | 15.36                 | 11.43                     | W14x61  | -9.70              | 25.07       |
| P-17 | 123.89  | 16.49           | 15.49                 | 11.35                     | W14x61  | -9.70              | 25.19       |
| P-18 | 123.88  | 16.62           | 15.62                 | 11.27                     | W14x61  | -9.70              | 25.32       |
| P-19 | 124.27  | 16.71           | 15.71                 | 11.13                     | W24x68  | -9.86              | 25.57       |
| P-20 | 124.26  | 16.78           | 15.78                 | 11.06                     | W24x68  | -9.86              | 25.64       |
| P-21 | 124.24  | 16.85           | 15.85                 | 11.00                     | W24x68  | -9.86              | 25.70       |
| P-22 | 124.22  | 16.90           | 15.90                 | 10.90                     | W24x68  | -10.03             | 25.93       |
| P-23 | 124.20  | 16.95           | 15.95                 | 10.86                     | W24x68  | -10.03             | 25.99       |
| P-24 | 124.19  | 17.01           | 16.01                 | 10.81                     | W24x68  | -10.03             | 26.04       |
| P-25 | 124.18  | 17.04           | 16.04                 | 10.74                     | W24x68  | -10.13             | 26.17       |
| P-26 | 124.16  | 17.06           | 16.06                 | 10.72                     | W24x68  | -10.13             | 26.19       |
| P-27 | 124.14  | 17.07           | 16.07                 | 10.70                     | W24x68  | -10.13             | 26.20       |
| P-28 | 124.13  | 17.08           | 16.08                 | 10.66                     | W24x68  | -10.16             | 26.24       |
| P-29 | 124.11  | 17.08           | 16.08                 | 10.66                     | W24x68  | -10.16             | 26.24       |
| P-30 | 124.10  | 17.09           | 16.09                 | 10.65                     | W24x68  | -10.16             | 26.24       |
| P-31 | 124.08  | 17.08           | 16.08                 | 10.65                     | W24x68  | -11.35             | 27.43       |
| P-32 | 124.06  | 17.07           | 16.07                 | 10.67                     | W24x68  | -11.35             | 27.42       |
| P-33 | 124.05  | 17.06           | 16.06                 | 10.68                     | W24x68  | -11.35             | 27.40       |
| P-34 | 124.03  | 17.03           | 16.03                 | 10.72                     | W24x68  | -11.30             | 27.33       |
| P-35 | 124.02  | 16.99           | 15.99                 | 10.75                     | W24x68  | -11.30             | 27.29       |
| P-36 | 124.00  | 16.96           | 15.96                 | 10.78                     | W24x68  | -11.30             | 27.25       |
| P-37 | 123.98  | 16.89           | 15.89                 | 10.86                     | W24x68  | -11.18             | 27.07       |
| P-38 | 123.97  | 16.80           | 15.80                 | 10.91                     | W24x68  | -11.18             | 26.98       |
| P-39 | 123.95  | 16.71           | 15.71                 | 10.96                     | W24x68  | -11.18             | 26.89       |
| P-40 | 123.53  | 16.62           | 15.62                 | 11.08                     | W14x61  | -9.58              | 25.20       |
| P-41 | 123.81  | 16.54           | 15.54                 | 11.15                     | W14x61  | -9.58              | 25.11       |
| P-42 | 123.49  | 16.45           | 15.45                 | 11.21                     | W14x61  | -9.58              | 25.02       |
| P-43 | 123.48  | 16.34           | 15.34                 | 11.36                     | W14x61  | -9.31              | 24.65       |
| P-44 | 123.46  | 16.22           | 15.22                 | 11.45                     | W14x61  | -9.31              | 24.53       |
| P-45 | 123.45  | 16.10           | 15.10                 | 11.54                     | W14x61  | -9.31              | 24.41       |
| P-46 | 123.43  | 15.99           | 14.99                 | 11.65                     | W14x61  | -8.97              | 23.95       |
| P-47 | 123.41  | 15.88           | 14.88                 | 11.67                     | W14x61  | -8.97              | 23.85       |
| P-48 | 123.40  | 15.77           | 14.77                 | 11.70                     | W14x61  | -8.97              | 23.74       |
| P-49 | 123.21  | 15.64           | 14.64                 | 11.60                     | W10x33  | -4.70              | 19.34       |
| P-50 | 123.19  | 15.48           | 14.48                 | 11.48                     | W10x33  | -4.70              | 19.18       |
| P-51 | 123.18  | 15.32           | 14.32                 | 11.36                     | W10x33  | -4.70              | 19.02       |
| P-52 | 123.16  | 15.16           | 14.16                 | 11.12                     | W10x33  | -4.25              | 18.42       |
| P-53 | 123.14  | 15.00           | 14.00                 | 11.00                     | W10x33  | -4.25              | 18.26       |
| P-54 | 123.13  | 14.84           | 13.84                 | 10.88                     | W10x33  | -4.25              | 18.10       |

\*From @ North Bound Local

BOWMAN, BARRETT & ASSOCIATES INC.  
CONSULTING ENGINEERS  
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312.228.0100  
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|                     |                                   |                  |              |           |
|---------------------|-----------------------------------|------------------|--------------|-----------|
| F.A.I.              | SECTION                           | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 94/90               |                                   | COOK             | 565          | 401       |
| STA.                | TO STA.                           |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS                          | FED. AID PROJECT |              |           |
| 62301               | *2021-922 PT2 ETC 2324.6-1PI R-10 |                  |              |           |

**NOTES**

- All W10 and W14 piles have drilled shaft dia = 2'-0".
- All W24 piles have drilled shaft dia = 3'-0".

**BILL OF MATERIAL**

| Item   | Unit    | Quantity |
|--|---------|----------|
| Furnishing Soldier Piles (W Sections)        | Foot    | 1,315    |
| Drilling and Setting Soldier Piles (In Soil) | Cu. Ft. | 6,545    |

SHEET 5 OF 9

|                                  |          |   |
|----------------------------------|----------|---|
| REVISIONS                        |          | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>F.A.I. 94/90 (DAN RYAN EXPRESSWAY)<br>GARFIELD BLVD TO 31ST STREET (NB LOCAL LANES)<br><br>RETAINING WALL N-43N-F<br>PILE LAYOUT<br><br>SCALE: NTS<br>DATE: JUNE 9, 2006 |
| NAME                             | DATE     |   |
| REVISOR                          | 06/15/06 |   |
|                                  |          |   |
|                                  |          |   |
|                                  |          |   |
|                                  |          |   |
|                                  |          |   |
|                                  |          |   |
|                                  |          |   |
| DRAWN BY: MTR<br>CHECKED BY: BLU |          |   |

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