| F.A.I. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|---|---|---|---|
| 94 | * | COOK | 916 | 376 |
| STA. 190+65 (NB I-57) 1990+48 (NB FORD) | TO STA. 2316+00 (NB RYAN | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

* (1516.1, 1717, & 1818) R-4

62304

## DRAINAGE STRUCTURE SCHEDULE

| STRUCTURE NUMBER | STATION | OFFSET | STRUCTURE TYPE | | DIA. | FRAME & LID | TOP OF FRAME | N INV. | E INV. | S INV. | W INV. |
|---|---|---|---|---|---|---|---|---|---|---|---|
| | | | MH | CB | | | | | | | |
| 21 | 193+29.56 | 12.0 RT | | A | 4′ | T20 F&G | 2.17 | | -3.84 | | |
| 22 | 194+28.13 | 12.0 RT | | A | 4′ | T20 F&G | 2.44 | | | -3.39 | |
| 23 | 196+22.11 | 12.0 RT | | A | 4′ | T20 F&G | 3.44 | | | -2.39 | |
| 24 | 193+50.04 | 12.0 RT | | A | 4′ | T20 F&G | 2.17 | | -3.90 | -3.90 | -3.90 |
| 25 | 193+40.04 | 12.0 RT | | A | 4′ | T20 F&G | 2.17 | | -3.87 | | -3.87 |
| 26 | 193+50.00 | 15.6 RT | | C | 2′ | T1F OL | 2.36 | -3.88 | | | |
| 31 | 199+64.09 | 51.7 LT | | A | 4′ | T20 F&G | 3.31 | | | -2.80 | |
| 32 | 199+64.11 | 12.0 RT | | A | 4′ | T20 F&G | 3.66 | -3.05 | -3.05 | | -3.05 |
| 33 | 200+57.92 | 12.0 RT | | A | 4′ | T20 F&G | 3.18 | | | | -2.65 |
| 34 | 200+99.54 | 52.1 LT | | A | 4′ | T20 F&G | 2.58 | | | -2.61 | |
| 35 | 201+09.83 | 6.3 RT | | A | 4′ | T1F OL | 3.07 | -2.85 | -2.85 | | |
| 36 | 201+50.00 | 4.8 RT | | A | 4′ | T1F OL | 2.91 | | | | -2.69 |
| 37 | 202+58.64 | 50.9 LT | | A | 4′ | T20 F&G | 1.82 | | | -3.25 | |
| 38 | 202+53.40 | 3.1 RT | | A | 4′ | T1F OL | 2.54 | -3.47 | | | -3.47 |
| 39 | 202+00.00 | 3.8 RT | | A | 4′ | T1F OL | 2.72 | | -3.25 | | |
| 41 | 203+92.02 | 51.0 LT | | A | 4′ | T20 F&G | 1.13 | | | -3.70 | |
| 42 | 204+75.16 | 23.9 RT | | A | 4′ | T20 F&G | 0.99 | | | -4.84 | |
| 43 | 205+58.16 | 22.2 RT | | A | 4′ | T20 F&G | 0.59 | | | -5.24 | |
| 44 | 206+42.02 | 51.3 LT | | A | 4′ | T20 F&G | -0.17 | | | -5.70 | |
| 45 | 206+42.16 | 20.6 RT | | A | 4′ | T20 F&G | 0.18 | -5.98 | | -5.98 | |
| 46 | 208+33.71 | 46.8 LT | | A | 4′ | T20 F&G | -0.98 | | | -6.60 | -5.60 |
| 47 | 208+10.74 | 18.0 RT | | A | 4′ | T20 F&G | -0.64 | -6.87 | | -6.87 | |
| 48 | NOT USED | - - | - | - | - | - | - | - | - | - | - |
| 49 | 206+22.98 | 25.5 RT | | C | 2′ | T1F OL | 0.45 | | | -3.55 | |
| 51 | 209+93.88 | 46.0 LT | | A | 4′ | T20 F&G | -1.79 | | | -7.39 | |
| 52 | 209+93.88 | 24.0 RT | | A | 4′ | T20 F&G | -1.83 | -7.66 | | -7.66 | |
| 53 | 209+93.88 | 34.0 RT | A | | 4′ | T1F CL | 2.20 | -7.70 | -13.34 | | |
| 54 | 212+23.93 | 46.0 LT | | A | 4′ | T20 F&G | -2.98 | | | -8.58 | |
| 55 | 212+23.97 | 24.0 RT | | A | 4′ | T20 F&G | -3.02 | -8.85 | | -8.85 | |
| 56 | 212+23.98 | 34.0 RT | A | | 4′ | T1F CL | 0.99 | -8.89 | -14.49 | | -14.24 |
| 57 | 213+58.54 | 46.0 LT | | A | 4′ | T20 F&G | -3.67 | -9.27 | | -9.27 | |
| 58 | 213+58.53 | 24.0 RT | | A | 4′ | T20 F&G | -3.71 | -9.54 | | -9.54 | |
| 59 | 213+58.53 | 34.0 RT | A | | 5′ | T1F CL | 0.41 | -9.58 | -15.38 | | -14.88 |
| 510 | NOT USED | - - | - | - | - | - | - | - | - | - | - |
| 511 | 214+71.28 | 46.0 LT | | A | 4′ | T20 F&G | -4.11 | | -9.95 | | -9.95 |
| 512 | 214+91.28 | 46.0 LT | | A | 4′ | T20 F&G | -4.11 | | | | -9.95 |
| 513 | 214+81.28 | 46.0 LT | | A | 4′ | T20 F&G | -4.11 | | -9.98 | -9.98 | -9.98 |
| 514 | NOT USED | - - | - | - | - | - | - | - | - | - | - |
| 515 | NOT USED | - - | - | - | - | - | - | - | - | - | - |
| 516 | 214+71.28 | 24.0 RT | | A | 4′ | T20 F&G | -4.15 | | -10.22 | -10.22 | |
| 517 | 214+91.28 | 24.0 RT | | A | 4′ | T20 F&G | -4.15 | | | | -10.22 |
| 518 | 214+81.28 | 24.0 RT | | A | 4′ | T20 F&G | -4.15 | -10.25 | -10.25 | -10.25 | -10.25 |
| 519 | 214+81.28 | 34.6 RT | A | | 5′ | T1F CL | 0.23 | -10.29 | -16.12 | | -15.62 |
| 520 | 214+71.28 | 29.0 RT | | C | 2′ | T1F OL | -2.10 | -10.20 | | | |
| 61 | 217+07.71 | 46.0 LT | | A | 4′ | T20 F&G | -2.96 | | | -8.76 | |
| 62 | 217+07.93 | 24.0 RT | | A | 4′ | T20 F&G | -3.20 | -9.03 | | -9.03 | |
| 63 | 217+07.93 | 41.3 RT | A | | 4′ | T1F CL | 3.35 | -9.10 | | | -14.76 |
| 64 | 216+57.97 | 41.3 RT | A | | 5′ | T1F CL | 3.23 | -16.96 | -14.96 | | -16.46 |
| 65 | NOT USED | - - | - | - | - | - | - | - | - | - | - |
| 66 | 219+23.70 | 46.0 LT | | A | 4′ | T20 F&G | -2.08 | -7.05 | | -7.05 | |
| 67 | 219+29.73 | 22.6 RT | | A | 4′ | T20 F&G | -2.01 | -7.32 | | -7.32 | |
| 68 | 219+29.47 | 34.0 RT | A | | 5′ | T1F CL | 2.17 | -7.36 | -7.36 | | -3.95 |
| 69 | 220+91.71 | 46.0 LT | | A | 4′ | T20 F&G | -1.20 | | | -6.78 | |
| 610 | 220+92.95 | 26.7 RT | | A | 4′ | T20 F&G | -1.24 | -7.07 | | -7.07 | |

## STORM SEWER SCHEDULE

| PIPE NUMBER | UPSTREAM STATION | DOWNSTREAM STATION | TYPE | DIA. (IN) | LENGTH (FT) | SLOPE % | T.B. (CU.YD) |
|---|---|---|---|---|---|---|---|
| 21 | 193+29.56 | 193+40.04 | 2 | 15 | 7 | 0.44 | 1.2 |
| 22 | 194+28.13 | 194+28.25 | 2 | 12 | 3 | 0.44 | 0.5 |
| 23 | 196+22.11 | 196+29.24 | 2 | 12 | 6 | 0.44 | 0.9 |
| 24 | 193+50.04 | 194+28.25 | 2 | 15 | 75 | 0.44 | 9.9 |
| 25 | 193+40.04 | 193+50.04 | 2 | 15 | 6 | 0.44 | 1.0 |
| 26 | 193+50.00 | 193+50.04 | 2 | 12 | 4 | 0.44 | 0.7 |
| 31 | 199+64.09 | 199+64.11 | 2 | 12 | 56 | 0.44 | 12.0 |
| 32 | 199+64.11 | 199+57.51 | 2 | 12 | 6 | 0.44 | 1.5 |
| 33 | 200+57.92 | 199+64.11 | 2 | 12 | 90 | 0.44 | 17.5 |
| 34 | 200+99.54 | 201+09.83 | 2 | 12 | 54 | 0.44 | 6.6 |
| 35 | NOT USED | - | - | - | - | - | - |
| 36 | 201+50.00 | 201+09.83 | 2 | 12 | 37 | 0.44 | 5.3 |
| 37 | 202+58.64 | 202+53.40 | 2 | 12 | 49 | 0.44 | 6.1 |
| 38 | NOT USED | - | - | - | - | - | - |
| 39 | 202+00.00 | 202+53.40 | 2 | 12 | 50 | 0.44 | 8.7 |
| 41 | 203+92.02 | 203+92.15 | 2 | 12 | 61 | 0.44 | 5.5 |
| 42 | 204+75.16 | 204+75.32 | 2 | 12 | 14 | 0.44(3) | 0.5 |
| 43 | 205+58.16 | 205+58.32 | 2 | 12 | 15 | 0.44(3) | 0.5 |
| 44 | 206+42.02 | 206+42.16 | 2 | 12 | 64 | 0.44 | 9.7 |
| 45 | 206+42.16 | 206+42.50 | 2 | 12 | 14 | 0.44(3) | 1.1 |
| 46 | 208+33.71 | 208+10.74 | 2 | 12 | 62 | 0.44 | 10.1 |
| 47 | 208+10.74 | 208+10.42 | 2 | 12 | 9 | 0.44 | 0.8 |
| 48 | 208+17.35 | 208+33.71 | 2 | 12 | 16 | 0.44 | 1.3 |
| 49 | 206+22.98 | 206+22.98 | 2 | 12 | 5 | 0.44 | 0.0 |
| 51 | 209+93.88 | 209+93.88 | 2 | 12 | 62 | 0.44 | 8.8 |
| 52 | 209+93.88 | 209+93.88 | 2 | 12 | 8 | 0.44 | 1.4 |
| 53 | 209+93.88 | 212+23.98 | 3 | 15 | 226 | 0.40 | 0.0 |
| 54 | 212+23.93 | 212+23.97 | 2 | 12 | 62 | 0.44 | 8.8 |
| 55 | 212+23.97 | 212+23.98 | 2 | 12 | 8 | 0.44 | 1.4 |
| 56 | 212+23.98 | 213+58.53 | 3 | 18 | 130 | 0.30 | 0.0 |
| 57 | 213+58.54 | 213+58.53 | 2 | 12 | 62 | 0.44 | 8.8 |
| 58 | 213+58.53 | 213+58.53 | 2 | 12 | 8 | 0.44 | 1.5 |
| 59 | 213+58.53 | 214+81.28 | 3 | 24 | 118 | 0.20 | 0.0 |
| 510 | 214+51.39 | 214+71.28 | 2 | 12 | 20 | 0.44 | 3.0 |
| 511 | 214+71.28 | 214+81.28 | 2 | 15 | 6 | 0.44 | 0.9 |
| 512 | 214+91.28 | 214+81.28 | 2 | 15 | 6 | 0.44 | 0.9 |
| 513 | 214+81.28 | 214+81.28 | 2 | 15 | 62 | 0.44 | 10.4 |
| 514 | 213+48.62 | 213+58.54 | 2 | 12 | 11 | 0.44 | 1.9 |
| 515 | NOT USED | - | - | - | - | - | - |
| 516 | 214+71.28 | 214+81.28 | 2 | 15 | 6 | 0.44 | 1.0 |
| 517 | 214+91.28 | 214+81.28 | 2 | 15 | 6 | 0.44 | 1.0 |
| 518 | 214+81.28 | 214+81.28 | 2 | 15 | 9 | 0.44 | 2.6 |
| 519 | 214+81.28 | 216+57.97 | 4 | 30 | 172 | 0.20 | 0.0 |
| 520 | 214+71.28 | 214+71.28 | 2 | 12 | 4 | 0.44 | 1.2 |
| 61 | 217+07.71 | 217+07.93 | 2 | 12 | 62 | 0.44 | 9.4 |
| 62 | 217+07.93 | 217+07.93 | 2 | 12 | 16 | 0.44 | 3.1 |
| 63 | 217+07.93 | 216+57.97 | 4 | 12 | 45 | 0.45 | 0.0 |
| 64 | NOT USED | - | - | - | - | - | - |
| 65 | 219+16.55 | 219+23.70 | 2 | 12 | 9 | 0.44 | 0.5 |
| 66 | 219+23.70 | 219+29.73 | 2 | 12 | 61 | 0.44 | 4.9 |
| 67 | 219+29.73 | 219+29.47 | 2 | 12 | 10 | 0.44 | 1.6 |
| 68 | 219+29.47 | 220+92.70 | 2 | 15 | 159 | 0.30 | 0.0 |
| 69 | 220+91.71 | 220+92.95 | 2 | 12 | 65 | 0.44 | 9.2 |
| 610 | 220+92.95 | 220+92.70 | 2 | 12 | 9 | 0.44 | 2.6 |

## NOTES:

(1) INDICATES INLET TYPE A, 2′ DIAMETER, TYPE 20 FRAME & GRATE.

(2) INDICATES MANHOLE, TYPE A, 6′ DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE.

(3) INDICATES SEWER LATERAL WITH 45° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(4) INDICATES SEWER LATERAL WITH 30° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(5) INDICATES SEWER LATERAL WITH 60° CONNECTION. SEE SHEET "DETAIL OF STORM SEWER CONNECTIONS TO SEWER."

(6) INDICATES MANHOLE TYPE A WITH FLAT SLAB TOP, IDOT STANDARD 602601.

(7) INDICATES CATCH BASIN REQUIRING TEMPORARY SOIL RETENTION SYSTEM WITH INSTALLATION.

(8) ALL STRUCTURE ELEVATIONS IN RESURFACED AREAS COME FROM AERIAL SURVEY AND SHOULD BE VERIFIED IN THE FIELD AND ADJUSTED TO MATCH EXISTING CONDITIONS.

## CASING SIZES

| PIPE SIZE | CASING SIZE (OD)* | CASING WALL THICKNESS |
|---|---|---|
| 12″ | 30″ | 0.500″ |
| 24″ | 42″ | 0.625″ |
| 30″ | 48″ | 0.688″ |
| 36″ | 48″ | 0.688″ |

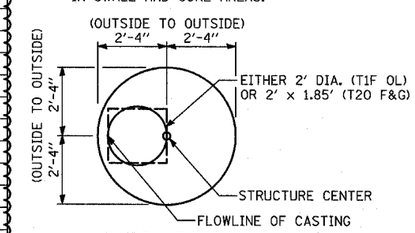
*ALL STEEL CASING SHALL MEET OR EXCEED ASTM A-139, GRADE B.

SEE THE DRAINAGE & UTILITY PLANS FOR LOCATION OF ALL STRUCTURES.

CATCH BASIN STATIONS ARE MEASURED TO CENTER OF STRUCTURE.

CATCH BASIN OFFSETS ARE MEASURED TO FLOWLINE OF CASING. (SEE BELOW)

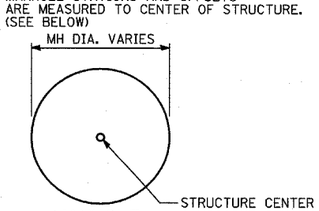
FLOWLINE OF CASTING IS LOCATED AT ℄ OF STRUCTURE FOR CATCH BASINS LOCATED IN SWALE AND GORE AREAS.




CATCH BASIN

(PRECAST REINFORCED CONCRETE SECTION)

MANHOLE STATIONS AND OFFSETS ARE MEASURED TO CENTER OF STRUCTURE. (SEE BELOW)




MANHOLE

SHEET 1 OF 10

| REVISIONS | |
|---|---|
| NAME | DATE |
| ADDENDUM 1 | 05/08/06 |

ILLINOIS DEPARTMENT OF TRANSPORTATION

F.A.I. 94 (DAN RYAN EXPRESSWAY)

DRAINAGE STRUCTURE SCHEDULE

SCALE: NONE

DRAWN BY: RD

DATE: MARCH 7, 2006

CHECKED BY: DA

TY·LIN INTERNATIONAL