

|                     |                |         |              |           |
|---------------------|----------------|---------|--------------|-----------|
| F.A.U. R.T.E.       | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 3860                | 09-00372-02-PW | MCHENRY | 1            | 1         |
| FED. ROAD DIST. NO. | CONTRACT NO.   |         |              |           |

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET 2

STATE OF ILLINOIS  
COUNTY OF MCHENRY  
DIVISION OF TRANSPORTATION

# PLANS FOR TREE REMOVAL AND STORM SEWER INSTALLATION

FAU 3860 (CHARLES J. MILLER ROAD)  
WEST OF FAP 336 (ILLINOIS ROUTE 31)  
TO EAST OF FAU 0087 (GREEN STREET)

SECTION: 09-00372-02-PW  
MCHENRY COUNTY

**TRAFFIC DATA**

|                        |                   |                   |
|------------------------|-------------------|-------------------|
| ADT:                   |                   |                   |
| CHARLES J. MILLER ROAD | 20,700 VPD (2009) | 34,000 VPD (2030) |
| ILLINOIS ROUTE 31      | 20,700 VPD (2009) | 31,000 VPD (2030) |

| ROADWAY                | POSTED SPEED               | DESIGN SPEED |
|------------------------|----------------------------|--------------|
| CHARLES J. MILLER ROAD | 45 MPH (EXISTING/PROPOSED) | 45 MPH       |
| ILLINOIS ROUTE 31      | 45 MPH (EXISTING/PROPOSED) | 45 MPH       |

**DESIGN DESIGNATION**

FAU 3860 (BULL VALLEY ROAD/CHARLES J. MILLER ROAD) - URBAN MINOR ARTERIAL  
FAP 0336 (ILLINOIS ROUTE 31/Front Street) - OTHER PRINCIPAL ARTERIAL

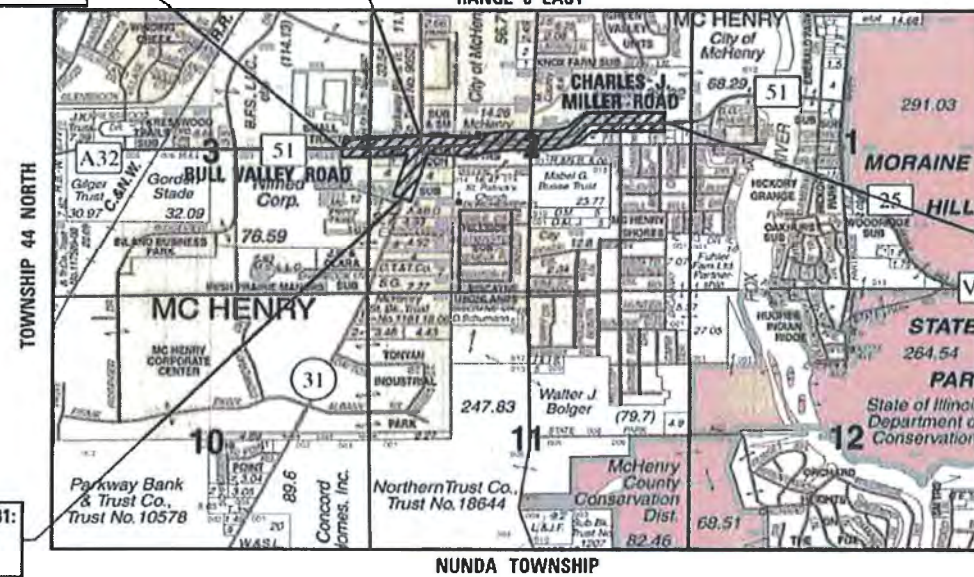


LOCATION OF SECTION INDICATED THIS: -

CHARLES J. MILLER ROAD  
BULL VALLEY ROAD:  
BEGIN PROJECT  
STA. 521 + 47

ILLINOIS ROUTE 31:  
PROJECT LIMITS  
STA. 119 + 35

PROJECT LOCATION MAP  
N.T.S.  
RANGE 8 EAST

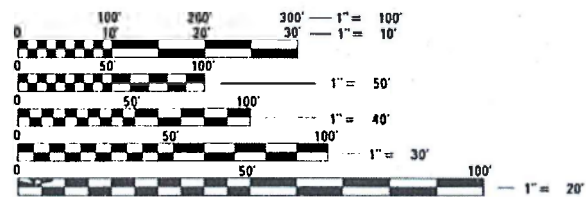


CHARLES J. MILLER ROAD:  
END PROJECT  
STA. 571 + 99

ILLINOIS ROUTE 31:  
PROJECT LIMITS  
STA. 99 + 25

**PROJECT LENGTH**

GROSS AND NET LENGTH OF IMPROVEMENT = GROSS LENGTH OF PROJECT = 5,052 FT (0.957 MI)



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

**J.U.L.I.E.**  
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION CALL 811

Know what's below. Call before you dig.

420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
Phone: 815.385.1778 | Toll Free: 800.728.7805 | Fax: 815.385.1781 | HRGreen.com  
ILLINOIS PROFESSIONAL DESIGN FIRM #184-001322

COUNTY OF MCHENRY COUNTY ENGINEER / JOSEPH R Korpalski, Jr., P.E. 815-334-4960  
 COUNTY NAME  
 PROJECT CONTACT  
 CLIENT  
 DATE PLOTTED  
 FILE NAME  
 PLOT DRIVER  
 PEN TABLE

**NOT FOR BID**

MCHENRY COUNTY  
DIVISION OF TRANSPORTATION

APPROVED August 5 20 14

*Joseph R. Korpalski, Jr.*  
COUNTY ENGINEER, MCHENRY COUNTY

PROFESSIONAL ENGINEER'S SIGN & SEAL  
EXCLUDING SHEET(S):

*Jeffrey L. Pisha*

JEFFREY L. PISHA, P.E.  
EXPIRES: 11-30-15

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## HIGHWAY STANDARDS

|              |   |
|--------------|---|
| STANDARD NO. |   |
| 000001-06    | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                              |
| 001006-00    | DECIMAL OF AN INCH AND OF A FOOT  |
| 280001-07    | TEMPORARY EROSION CONTROL SYSTEMS   |
| 542301-03    | PRECAST REINFORCED CONCRETE FLARED END SECTION                            |
| 602401-03    | MANHOLE, TYPE A   |
| 602411-04    | MANHOLE, TYPE A, 7' (2.1M) DIAMETER                                       |
| 602701-02    | MANHOLE STEPS   |
| 604001-03    | FRAME AND LIDS, TYPE 1  |
| 701001-02    | OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY                     |
| 701006-05    | OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE |
| 701011-04    | OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY                              |
| 701311-03    | LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY                          |
| 701501-06    | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED                                     |
| 701901-03    | TRAFFIC CONTROL DEVICES   |

## DISTRICT ONE DETAILS

|       |  |
|-------|--|
| BD-37 | MANHOLE TYPE A 7 FOOT DIAMETER   |
| TC-10 | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS |
| TC-22 | ARTERIAL ROAD INFORMATION SIGN   |

## GENERAL NOTES

- ALL REFERENCES TO "STANDARD SPECIFICATIONS" IN THESE GENERAL NOTES SHALL BE INTERPRETED TO MEAN "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION, JANUARY 1, 2012. ALL WORK TO BE COMPLETED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.
- ALL REFERENCES TO "ENGINEER" SHALL BE INTERPRETED TO MEAN THE RESIDENT ENGINEER.
- PRIOR TO COMMENCEMENT OF CONSTRUCTION, THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND CONDITIONS AFFECTING THEIR WORK WITH THE ACTUAL CONDITIONS AT THE JOB SITE. IF THERE ARE ANY DISCREPANCIES FROM WHAT IS SHOWN ON THE PLANS, HE MUST IMMEDIATELY REPORT SAME TO THE ENGINEER BEFORE DOING ANY WORK, OTHERWISE THE CONTRACTOR ASSUMES FULL RESPONSIBILITY. IN THE EVENT OF DISAGREEMENT BETWEEN THE PLANS, STANDARD SPECIFICATIONS AND/OR SPECIAL DETAILS, THE CONTRACTOR SHALL SECURE WRITTEN INSTRUCTIONS FROM THE ENGINEER PRIOR TO PROCEEDING WITH ANY PART OF THE WORK AFFECTED BY OMISSIONS OR DISCREPANCIES. FAILING TO SECURE SUCH INSTRUCTIONS, THE CONTRACTOR WILL BE CONSIDERED TO HAVE PROCEEDED AT HIS OWN RISK AND EXPENSE. IN THE EVENT OF ANY DOUBT OR QUESTION ARISING WITH RESPECT TO THE TRUE MEANING OF THE PLANS OR SPECIFICATIONS, THE DECISION OF THE ENGINEER SHALL BE FINAL AND CONCLUSIVE.
- IT IS THE CONTRACTOR'S RESPONSIBILITY TO ASCERTAIN EXISTING FIELD CONDITIONS PRIOR TO BIDDING ON THE PROJECT.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 8-1-1 MCDOT AT (815) 334-4960 AND THE CITY OF MCHENRY AT (815) 363-2100 FOR FIELD LOCATIONS OF BURIED UTILITIES (48 HOURS NOTIFICATION IS REQUIRED).
- OFFSET LOCATIONS GIVEN IN THE PLANS FOR STRUCTURES AND TREES ARE FROM THE PROPOSED ROADWAY CENTERLINE.
- ALL OF THE TREES TO BE REMOVED SHALL BE DESIGNATED BY THE ENGINEER. IN MOST CASES, THE TREES WILL BE PREVIOUSLY MARKED WITH A PAINTED NUMBER.
- THE REMOVAL OF STUMPS SHALL BE DONE WITH MECHANICAL EQUIPMENT NORMALLY USED FOR THIS TYPE OF OPERATION. THE ENGINEER SHALL HAVE THE AUTHORITY TO DETERMINE WHAT IS CONSIDERED ACCEPTABLE STUMP REMOVAL EQUIPMENT. SAWS, AXES AND SIMILAR ITEMS SHALL NOT BE CONSIDERED PROPER EQUIPMENT FOR REMOVAL OF STUMPS OVER SIX (6) INCH DIAMETER.
- TREES AND SHRUBS UNDER 6" DIAMETER IN CONFLICT WITH TREE REMOVAL OPERATIONS SHALL BE REMOVED. THIS WORK SHALL BE INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- THE CONTRACTOR SHALL PLACE FOUR CHANGEABLE MESSAGE SIGNS, ONE AT THE BEGINNING OF THE PROJECT ON BULL VALLEY ROAD, THE NORTH AND SOUTH LEGS OF IL ROUTE 31, AND AT THE EAST END OF THE PROJECT ON CHARLES J. MILLER ROAD. THE MESSAGE SIGNS WITH THE APPROPRIATE INFORMATION SHALL BE IN PLACE TWO WEEKS BEFORE START OF CONSTRUCTION ACTIVITY. THIS WORK IS TO BE PAID FOR AT THE CONTRACT UNIT PRICE PER CALENDAR MONTH FOR "CHANGEABLE MESSAGE SIGN".
- ALL CURB CUTTING AND CURB AND GUTTER REMOVAL IN ORDER TO ESTABLISH A CONSTRUCTION ENTRANCE TO THE WORK ZONE WILL BE INCIDENTAL TO THE COST OF THE "STABILIZED CONSTRUCTION ENTRANCE".

## STORM SEWERS, WATER MAINS, AND UTILITIES

- THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING THE OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
- THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR. THIS WORK SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S EXPENSE.
- ALL UTILITY COMPANIES SHALL BE NOTIFIED AT LEAST 3 DAYS PRIOR TO THE START OF CONSTRUCTION.
- THE CONTRACTOR SHALL PROTECT EXISTING OR NEW UTILITIES WHEN CONSIDERED NECESSARY BY METHODS APPROVED BY THE ENGINEER, AND HE SHALL BRACE AND SUPPORT THE UTILITIES PROPERLY TO PREVENT SETTLEMENT, DISPLACEMENT, OR DAMAGE TO THE UTILITIES. THE PROTECTION OF THE UTILITIES SPECIFIED HEREIN WILL NOT BE PAID FOR SEPARATELY, BUT THE COST THEREOF SHALL BE CONSIDERED AS INCLUDED IN THE CONTRACT.
- UNLESS OTHERWISE NOTED OFFSETS FOR DRAINAGE STRUCTURES LOCATED IN CURB AND GUTTER ARE TO THE EDGE OF PAVEMENT AND OFFSETS FOR DRAINAGE STRUCTURES NOT LOCATED IN THE CURB AND GUTTER ARE TO THE CENTER OF THE STRUCTURE.
- THE INVERT ELEVATION OF FLARED END SECTIONS ARE MEASURED AT THE END. THE STATION PROVIDED IS AT THE END OF THE TOE BLOCK.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- WHEN EXISTING DRAINAGE FACILITIES ARE DISTURBED, THE CONTRACTOR SHALL PROVIDE AND MAINTAIN, IN AN OPERATING CONDITION, TEMPORARY OUTLETS AND CONNECTIONS FOR ALL DRAINS, SEWERS, AND CATCH BASINS. THE CONTRACTOR SHALL PROVIDE FACILITIES WHICH HAVE THE CAPACITY TO RECEIVE AND DISCHARGE THE STORM WATER FLOW RATES NORMALLY ACCEPTED AND RELEASED BY THE EXISTING DRAINAGE FACILITIES. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- ALL FRAMES WITH CLOSED LIDS TO BE FURNISHED AS PART OF THE CONTRACT FOR CONSTRUCTION, ADJUSTMENT OR RECONSTRUCTION OF ANY MANHOLE, CATCH BASIN, INLET, VALVE VAULT OR METER VAULT SHALL HAVE CAST INTO THE LID ONE OF THE FOLLOWING WORDS: ALL LIDS TO BE USED ON STORM SEWER STRUCTURES SHALL BEAR THE WORD "STORM." ANY ADDITIONAL COST FOR THIS REQUIREMENT WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE FRAMES AND CLOSED LIDS PROVIDED.

- FRAME ELEVATIONS GIVEN ON THE PLANS ARE ONLY TO ASSIST THE CONTRACTOR IN DETERMINING THE APPROXIMATE OVERALL HEIGHT OF THE STRUCTURE. FRAMES ON ALL NEW, ADJUSTED OR RECONSTRUCTED STRUCTURES WILL BE ADJUSTED TO THE FINAL ELEVATION OF THE AREA IN WHICH THEY ARE LOCATED AS PART OF THE STRUCTURE, ADJUSTMENT OR RECONSTRUCTION COST.
- ALL STORM SEWER SHALL BE REINFORCED CONCRETE PIPE WITH FLEXIBLE GASKET MEETING THE REQUIREMENTS OF ASTM C361. THIS ITEM WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE PRICE OF STORM SEWER.
- DRAINAGE STRUCTURES TO BE INSTALLED SHALL BE INSTALLED AT THE ELEVATIONS LISTED IN THE PLANS. AFTER INSTALLATION, THE PARKWAY SHALL BE RESTORED TO THE PREVIOUS EXISTING GRADE IN ORDER TO MAINTAIN THE EXISTING DRAINAGE SYSTEM. THE CONTRACTOR SHALL PLACE A STAKE AT THE CENTER OF EACH NEW BURIED STRUCTURE AFTER RESTORATION OF THE EXISTING GRADE SO THAT THE STRUCTURES MAY BE EASILY FOUND DURING FUTURE CONSTRUCTION ACTIVITIES. FLARED END SECTIONS TO BE BURIED SHALL BE BRICKED SHUT PRIOR TO INSTALLATION. THE COST OF THIS WORK SHALL BE INCLUDED IN THE COST OF THE DRAINAGE STRUCTURE BEING INSTALLED.

## BACKFILL

- STORM SEWER SHALL BE BACK FILLED IN ACCORDANCE WITH ARTICLE 550.07, METHOD 1 ONLY.
- PROVIDE TRENCH BACKFILL FOR ALL UTILITY LINES WITHIN 2' OF PAVED AREAS. ALL TRENCH BACKFILL QUANTITIES FOR STORM SEWER HAVE BEEN COMPUTED AND SHALL BE PAID FOR IN ACCORDANCE WITH THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS BUREAU OF CONSTRUCTION TRENCH BACKFILL TABLE, BASED ON PIPE SIZE AND INVERT DEPTH FROM SUBGRADE.

COMPANY NAME: Jeff Pligo  
 PROJECT CONTACT: Jeff Pligo  
 DATE PLOTTED: 8/5/2014 3:56:41 PM  
 FILE NAME: 090071-gen.dgn  
 PLOT DRIVER: pafah  
 PEN TABLE: standard-trans.tbl



|                            |                |           |
|----------------------------|----------------|-----------|
| USER NAME = tyelton        | DESIGNED - TAY | REVISED - |
| FILE NAME = 090071-gen.dgn | DRAWN - WJH    | REVISED - |
| PLOT SCALE = N.T.S.        | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014       | DATE - 8/5/14  | REVISED - |

### MCHENRY COUNTY DIVISION OF TRANSPORTATION

### INDEX OF SHEETS, LIST OF HIGHWAY STANDARDS, AND GENERAL NOTES

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A

| F.A.U. RTE.                                   | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|----------------|---------|--------------|-----------|
| 3860  | 09-00372-02-PW | MCHENRY | 51           | 2         |
| CONTRACT NO.                                  |                |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                |         |              |           |

**SUMMARY OF QUANTITIES**

| PAYCODE    | ITEM DESCRIPTION  | UNIT   | ROADWAY TOTAL |
|------------|---|--------|---------------|
| • 20100110 | TREE REMOVAL (6 TO 15 UNITS DIAMETER)                   | UNIT   | 458           |
| • 20100210 | TREE REMOVAL (OVER 15 UNITS DIAMETER)                   | UNIT   | 1,224         |
| • 20100500 | TREE REMOVAL, ACRES                                     | ACRE   | 2.00          |
| 20101000   | TEMPORARY FENCE   | FOOT   | 1,440         |
| • 20101200 | TREE ROOT PRUNING                                       | EACH   | 15            |
| • 20101350 | TREE PRUNING (OVER 10 INCH DIAMETER)                    | EACH   | 30            |
| 20800150   | TRENCH BACKFILL   | CU YD  | 69            |
| • 21101615 | TOPSOIL FURNISH AND PLACE, 4"                           | SQ YD  | 11,302        |
| • 25000210 | SEEDING, CLASS 2A                                       | ACRE   | 2.50          |
| • 25000400 | NITROGEN FERTILIZER NUTRIENT                            | POUND  | 211           |
| • 25000500 | PHOSPHORUS FERTILIZER NUTRIENT                          | POUND  | 211           |
| • 25000600 | POTASSIUM FERTILIZER NUTRIENT                           | POUND  | 211           |
| 25100630   | EROSION CONTROL BLANKET                                 | SQ YD  | 11,302        |
| 28000250   | TEMPORARY EROSION CONTROL SEEDING                       | POUND  | 234           |
| • 28000400 | PERIMETER EROSION BARRIER                               | FOOT   | 5,580         |
| 40200700   | AGGREGATE SURFACE COURSE, TYPE A 8"                     | SQ YD  | 27            |
| 54213657   | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"     | EACH   | 1             |
| 550A0050   | STORM SEWERS, CLASS A, TYPE 1 12"                       | FOOT   | 42            |
| 550A0340   | STORM SEWERS, CLASS A, TYPE 2 12"                       | FOOT   | 11            |
| 550A0380   | STORM SEWERS, CLASS A, TYPE 2 18"                       | FOOT   | 115           |
| 550A0450   | STORM SEWERS, CLASS A, TYPE 2 36"                       | FOOT   | 373           |
| 550A0480   | STORM SEWERS, CLASS A, TYPE 2 48"                       | FOOT   | 1,204         |
| 550A4720   | STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 54" | FOOT   | 339           |
| 60218400   | MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH   | 2             |
| 60221100   | MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH   | 2             |
| 60223800   | MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH   | 1             |
| 60224446   | MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH   | 7             |
| 60500050   | REMOVING CATCH BASINS                                   | EACH   | 1             |
| 67000400   | ENGINEER'S FIELD OFFICE, TYPE A                         | CAL MO | 5             |
| 67100100   | MOBILIZATION  | L SUM  | 1             |
| 70106800   | CHANGEABLE MESSAGE SIGN                                 | CAL MO | 8             |
| X0323868   | DRAINAGE RESTRICTOR                                     | EACH   | 3             |
| X2010400   | STUMP REMOVAL ONLY                                      | UNIT   | 24            |
| X7010216   | TRAFFIC CONTROL AND PROTECTION, (SPECIAL)               | L SUM  | 1             |
| Z0013797   | STABILIZED CONSTRUCTION ENTRANCE                        | SQ YD  | 80            |
| Z0013798   | CONSTRUCTION LAYOUT                                     | L SUM  | 1             |
| Z0030850   | TEMPORARY INFORMATION SIGNING                           | SQ FT  | 103           |
|            | EXPLORATION TRENCH, SPECIAL                             | CU YD  | 2,500         |

• SPECIALTY ITEM

COMPANY NAME: Jeff Pugh  
 PROJECT CONTACT: Jeff Pugh  
 PROJECT: Mchenry County Division of Transportation  
 DATE PLOTTED: 8/5/2014 3:36:45 PM  
 FILE NAME: 09071-sum.dgn  
 PLOT DRIVER: pdfcut  
 PEN TABLE: standard-trans.tbl



USER NAME = tjelton  
 FILE NAME = 09071-sum.dgn  
 PLOT SCALE = N.T.S.  
 PLOT DATE = 8/5/2014

DESIGNED - TAY  
 DRAWN - WJH  
 CHECKED - JLP  
 DATE - 8/5/14

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -

**MCHENRY COUNTY  
 DIVISION OF TRANSPORTATION**

**SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A

|   |                |         |              |           |
|---|----------------|---------|--------------|-----------|
| F.A.U. RTE.                                   | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 3860  | 09-00372-02-PW | MCHENRY | 51           | 3         |
| CONTRACT NO.                                  |                |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                |         |              |           |

## SCHEDULE OF QUANTITIES

### TREE REMOVAL (6 TO 15 UNITS DIAMETER)

| BULL VALLEY ROAD |      |      |
|------------------|------|------|
| STA              | OFF  | UNIT |
| 526+26           | 80.2 | 14   |
| 526+30           | 80.0 | 14   |

SUBTOTAL      28      UNIT

| CHARLES J MILLER ROAD |       |      |
|-----------------------|-------|------|
| STA                   | OFF   | UNIT |
| 538+67                | -51.4 | 14   |
| 539+02                | -49.6 | 10   |
| 540+79                | 60.1  | 10   |
| 541+07                | 55.6  | 10   |
| 552+33                | 139.0 | 10   |
| 552+44                | 125.6 | 10   |
| 552+55                | 83.6  | 10   |
| 552+58                | 70.6  | 10   |
| 561+82                | 73.5  | 14   |
| 561+99                | 40.9  | 12   |
| 563+15                | 46.1  | 10   |
| 563+49                | 39.0  | 10   |
| 563+55                | 54.7  | 10   |
| 563+75                | 48.1  | 10   |
| 563+91                | 61.4  | 10   |
| 563+99                | 65.1  | 10   |
| 564+15                | 58.7  | 10   |
| 564+31                | 53.5  | 10   |
| 564+33                | 62.3  | 12   |
| 564+36                | 54.8  | 14   |
| 564+60                | 56.6  | 10   |
| 564+73                | 53.5  | 10   |
| 567+21                | 50.0  | 12   |
| 567+89                | 55.4  | 14   |
| 567+98                | 58.4  | 10   |
| 568+45                | 50.7  | 14   |
| 571+11                | 52.8  | 10   |

SUBTOTAL      296      UNIT

| IL ROUTE 31 |       |      |
|-------------|-------|------|
| STA         | OFF   | UNIT |
| 102+00      | -61.6 | 12   |
| 102+04      | -63.7 | 14   |
| 102+20      | -44.1 | 12   |
| 102+22      | -45.0 | 12   |
| 109+14      | -89.2 | 14   |
| 109+24      | -88.6 | 14   |
| 109+34      | -87.8 | 14   |
| 109+38      | 62.6  | 14   |
| 112+01      | 76.3  | 14   |
| 112+64      | 63.2  | 14   |

SUBTOTAL      134      UNIT  
GRAND TOTAL      458      UNIT

### TREE REMOVAL (OVER 15 UNITS DIAMETER)

| BULL VALLEY ROAD |      |      |
|------------------|------|------|
| STA              | OFF  | UNIT |
| 532+77           | 50.4 | 22   |
| 532+77           | 38.2 | 22   |
| 532+78           | 43.4 | 22   |
| 533+29           | 30.2 | 28   |

SUBTOTAL      94      UNIT

| CHARLES J MILLER ROAD |      |      |
|-----------------------|------|------|
| STA                   | OFF  | UNIT |
| 536+94                | 17.1 | 16   |
| 537+34                | 15.5 | 16   |
| 537+77                | 15.2 | 16   |
| 538+19                | 17.5 | 22   |
| 538+62                | 17.3 | 20   |
| 539+01                | 19.2 | 22   |
| 539+36                | 32.7 | 18   |
| 561+90                | 56.4 | 28   |
| 562+20                | 68.2 | 44   |
| 562+28                | 49.0 | 20   |
| 562+34                | 38.5 | 28   |
| 563+23                | 45.9 | 34   |
| 563+89                | 46.7 | 18   |
| 564+11                | 55.3 | 18   |
| 564+48                | 61.4 | 18   |
| 565+96                | 60.1 | 18   |
| 566+15                | 59.8 | 76   |
| 566+53                | 57.6 | 20   |
| 567+83                | 59.5 | 20   |
| 567+89                | 57.5 | 18   |
| 568+34                | 52.0 | 26   |
| 571+11                | 52.6 | 16   |
| 571+79                | 58.5 | 18   |
| 571+99                | 56.2 | 38   |

SUBTOTAL      588      UNIT

| IL ROUTE 31 |       |      |
|-------------|-------|------|
| STA         | OFF   | UNIT |
| 99+63       | 39.6  | 40   |
| 101+47      | 52.3  | 40   |
| 102+00      | -60.6 | 19   |
| 104+53      | -65.0 | 21   |
| 105+28      | -63.2 | 21   |
| 106+73      | -62.5 | 21   |
| 107+30      | -83.2 | 16   |
| 107+36      | 43.4  | 60   |
| 107+41      | -90.3 | 16   |
| 107+51      | -91.3 | 16   |
| 107+53      | -67.3 | 21   |
| 108+00      | -80.1 | 16   |
| 108+25      | 44.8  | 22   |
| 108+35      | 45.7  | 20   |
| 108+46      | 47.5  | 40   |
| 108+88      | -90.2 | 16   |
| 109+20      | -63.2 | 21   |
| 109+81      | -60.7 | 21   |
| 110+37      | -59.1 | 21   |
| 112+01      | 63.2  | 22   |
| 118+90      | -68.2 | 52   |

SUBTOTAL      542      UNIT  
GRAND TOTAL      1224      UNIT

### TREE REMOVAL, ACRES

| BULL VALLEY ROAD |      |        |      |         |      |
|------------------|------|--------|------|---------|------|
| STA              | OFF  | TO STA | OFF  | SQ FT   | ACRE |
| 526+80           | 15.0 | 531+33 | 80.0 | 28667.0 | 0.75 |

SUBTOTAL      0.75      ACRE

| CHARLES J MILLER ROAD |      |        |      |         |      |
|-----------------------|------|--------|------|---------|------|
| STA                   | OFF  | TO STA | OFF  | SQ FT   | ACRE |
| 110+85                | 25.0 | 117+10 | 95.0 | 44625.0 | 1.25 |

SUBTOTAL      1.25      ACRE

| IL ROUTE 31 |     |        |     |       |      |
|-------------|-----|--------|-----|-------|------|
| STA         | OFF | TO STA | OFF | SQ FT | ACRE |
|             |     |        |     |       |      |

SUBTOTAL      0.00      ACRE

GRAND TOTAL      2.00      ACRE

COMPANY NAME: Jeff Pugh  
 PROJECT CONTACT: Jeff Pugh  
 DATE PLOTTED: 8/5/2014 3:56:49 PM  
 FILE NAME: 090071-Sch-01.dgn  
 PLOT DRIVER: pdfplot  
 PEN TABLE: standard-trans.tbl



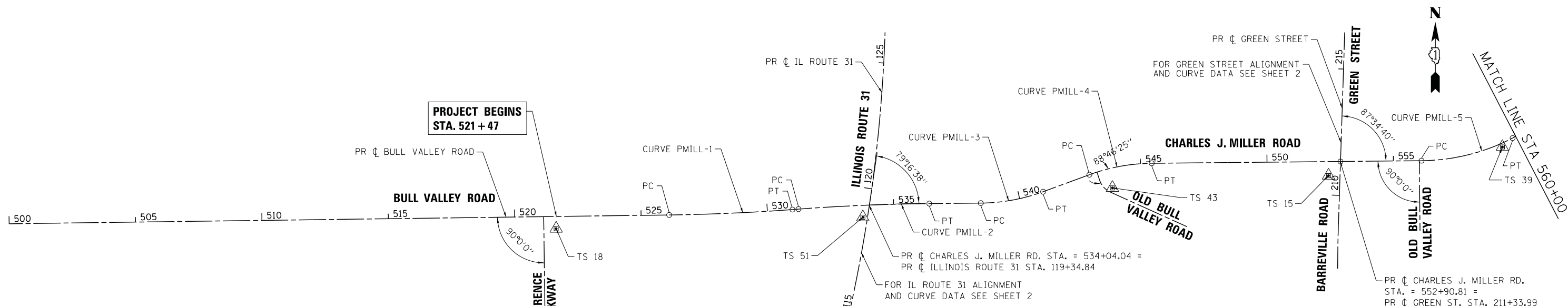
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| FILE NAME = 090071-Sch-01.dgn | DRAWN - WJH    | REVISED - |
| PLOT SCALE = N.T.S.           | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014          | DATE - 8/5/14  | REVISED - |

### MCHENRY COUNTY DIVISION OF TRANSPORTATION

### TREE REMOVAL SCHEDULE

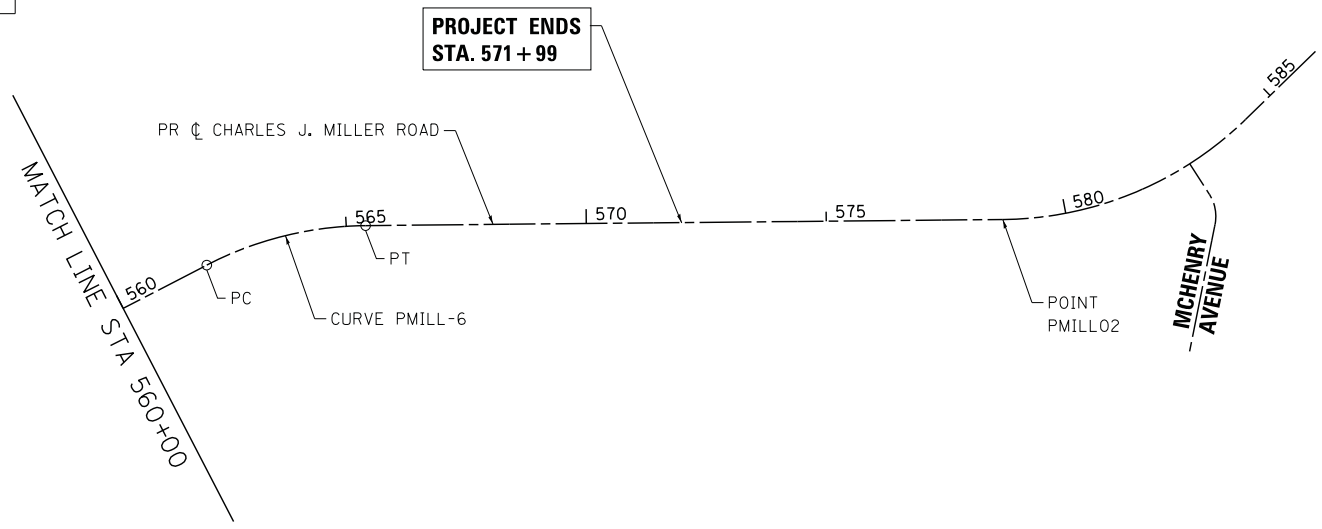
SCALE: N.T.S.      SHEET NO. 1 OF 1 SHEETS      STA. N/A      TO STA. N/A

| F.A.U. RTE.  | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|--|----------------|---------|--------------|-----------|
| 3860   | 09-00372-02-PW | MCHENRY | 51           | 4         |
| CONTRACT NO.                                       |                |         |              |           |
| FED. ROAD DIST. NO.      ILLINOIS FED. AID PROJECT |                |         |              |           |



**CHARLES J. MILLER ROAD COORDINATE TABLE**

| DESCRIPTION   | STATION   | N          | E          |
|---------------|-----------|------------|------------|
| POINT PMILLO1 | 500+00.00 | 2059521.27 | 996766.81  |
| PC PMILL-1    | 526+11.22 | 2059556.12 | 999337.80  |
| PT PMILL-1    | 530+99.68 | 2059577.54 | 999865.72  |
| PC PMILL-2    | 531+23.31 | 2059579.30 | 999889.28  |
| PT PMILL-2    | 536+41.67 | 2059601.06 | 1000483.96 |
| PC PMILL-3    | 538+45.23 | 2059603.02 | 1000603.58 |
| PT PMILL-3    | 540+97.11 | 2059648.13 | 1000857.20 |
| PC PMILL-4    | 542+92.11 | 2059715.41 | 1001040.22 |
| PT PMILL-4    | 545+43.99 | 2059760.52 | 1001286.78 |
| PC PMILL-5    | 556+11.47 | 2059770.78 | 1002714.41 |
| PT PMILL-5    | 559+86.05 | 2059860.35 | 1002714.41 |
| PC PMILL-6    | 561+96.05 | 2059956.92 | 1002900.89 |
| PT PMILL-6    | 565+40.21 | 2060039.21 | 1003231.84 |
| POINT PMILLO2 | 578+67.97 | 2060051.94 | 1004559.53 |



**INTERSECTION COORDINATE TABLE**

| STATION EQUATION   | N          | E          |
|--|------------|------------|
| CHARLES J. MILLER RD. STA. 534+04.34 =<br>ILLINOIS ROUTE 31 STA. 119+34.84 | 2059595.26 | 1000196.84 |
| CHARLES J. MILLER RD. STA. 552+90.81 =<br>GREEN STREET STA. 211+33.99      | 2059767.70 | 1002033.57 |

- BENCHMARKS**
- BM 1: RAILROAD SPIKE IN THE NORTH FACE OF POWERPOLE AT THE SOUTHWEST CORNER OF CHARLES J. MILLER ROAD AND GREEN STREET (BARREVILLE ROAD.)  
ELEVATION = 805.79
  - BM 2: RAILROAD SPIKE IN THE WEST FACE OF POWERPOLE AT THE SOUTHEAST CORNER OF ROUTE 31 (FRONT STREET) AND CHARLES J. MILLER ROAD (BULL VALLEY ROAD).  
ELEVATION = 831.23
  - BM 3: RAILROAD SPIKE IN THE WEST FACE OF POWERPOLE AT THE SOUTHWEST CORNER OF MEDICAL CENTER DRIVE AND ROUTE 31 (FRONT STREET).  
ELEVATION = 841.09
  - BM 4: NORTHWEST TOP FLANGE BOLT ON FIRE HYDRANT AT THE SOUTHWEST CORNER OF BULL VALLEY ROAD AND LAWRENCE PARKWAY  
ELEVATION = 800.11



PROP. CURVE PMILL-1  
 PI STA. = 528+55.53  
 $\Delta = 3^\circ 29' 54''$  (LT)  
 $D = 0^\circ 42' 58''$   
 $R = 8,000.00'$   
 $T = 244.31'$   
 $L = 488.46'$   
 $E = 3.73'$   
 $e = N/A$   
 $T.R. = N/A$   
 $S.E. RUN = N/A$   
 $P.C. STA. = 526+11.22$   
 $P.T. STA. = 530+99.68$

PROP. CURVE PMILL-2  
 PI STA. = 533+82.58  
 $\Delta = 3^\circ 42' 45''$  (RT)  
 $D = 0^\circ 42' 58''$   
 $R = 8,000.00'$   
 $T = 259.27'$   
 $L = 518.36'$   
 $E = 4.20'$   
 $e = N/A$   
 $T.R. = N/A$   
 $S.E. RUN = N/A$   
 $P.C. STA. = 531+23.31$   
 $P.T. STA. = 536+41.67$

PROP. CURVE PMILL-3  
 PI STA. = 539+72.42  
 $\Delta = 19^\circ 38' 05''$  (LT)  
 $D = 7^\circ 47' 43''$   
 $R = 735.00'$   
 $T = 127.19'$   
 $L = 251.88'$   
 $E = 10.92'$   
 $e = 4.0\%$   
 $T.R. = 44.33'$   
 $S.E. RUN = 133.00'$   
 $P.C. STA. = 538+45.23$   
 $P.T. STA. = 540+97.11$

PROP. CURVE PMILL-4  
 PI STA. = 544+19.29  
 $\Delta = 19^\circ 38' 05''$  (RT)  
 $D = 7^\circ 47' 43''$   
 $R = 735.00'$   
 $T = 127.19'$   
 $L = 251.88'$   
 $E = 10.92'$   
 $e = 4.0\%$   
 $T.R. = 44.33'$   
 $S.E. RUN = 133.00'$   
 $P.C. STA. = 542+92.11$   
 $P.T. STA. = 545+43.99$

PROP. CURVE PMILL-5  
 PI STA. = 558+02.26  
 $\Delta = 26^\circ 49' 38''$  (LT)  
 $D = 7^\circ 09' 43''$   
 $R = 800.00'$   
 $T = 190.79'$   
 $L = 374.58'$   
 $E = 22.44'$   
 $e = 4.0\%$   
 $T.R. = 44.33'$   
 $S.E. RUN = 133.00'$   
 $P.C. STA. = 556+11.47$   
 $P.T. STA. = 559+86.05$

PROP. CURVE PMILL-6  
 PI STA. = 563+71.35  
 $\Delta = 26^\circ 49' 42''$  (RT)  
 $D = 7^\circ 47' 43''$   
 $R = 735.00'$   
 $T = 175.29'$   
 $L = 344.16'$   
 $E = 20.61'$   
 $e = 4.0\%$   
 $T.R. = 44.33'$   
 $S.E. RUN = 133.00'$   
 $P.C. STA. = 561+96.05$   
 $P.T. STA. = 565+40.21$

COMPANY NAME: HRGreen  
 PROJECT CONTACT: Jeff Pugh  
 ADDRESS: Mchenry County, Division of Transportation  
 DATE PLOTTED: 8/5/2014 3:36:55 PM  
 FILE NAME: 09071-tie-01.dgn  
 PLOT DRIVER: pdfcut  
 PEN TABLE: standard-trans.tbl



|                              |                |           |
|------------------------------|----------------|-----------|
| USER NAME = tyeilton         | DESIGNED - TAY | REVISED - |
| FILE NAME = 09071-tie-01.dgn | DRAWN - WJH    | REVISED - |
| PLOT SCALE =                 | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014         | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**ALIGNMENT, TIES, AND BENCHMARKS**

SCALE: SHEET NO. 1 OF 5 SHEETS STA. TO STA.

| F.A.U. RTE.                                   | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|----------------|---------|--------------|-----------|
| 3860  | 09-00372-02-PW | MCHENRY | 51           | 5         |
| CONTRACT NO.                                  |                |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                |         |              |           |

PROJECT BEGINS  
STA. 99 + 25

PROJECT ENDS  
STA. 119 + 35

| ILLINOIS ROUTE 31 COORDINATE TABLE |           |            |            |
|------------------------------------|-----------|------------|------------|
| DESCRIPTION                        | STATION   | N          | E          |
| BEGIN PROJECT                      | 99+25     | 2057664.84 | 999662.05  |
| PC P31-1                           | 108+92.33 | 2058582.60 | 999927.75  |
| PT P31-1                           | 129+38.55 | 2060595.73 | 1000234.10 |
| END PROJECT                        | 136+76    | 2061333.04 | 1000219.72 |

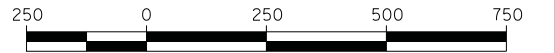
PROP. CURVE P31-1  
 PI STA. = 119+25.47  
 $\Delta = 19^\circ 32' 24''$  (LT)  
 $D = 0^\circ 57' 18''$   
 $R = 6,000.00'$   
 $T = 1,033.14'$   
 $L = 2,046.21'$   
 $E = 88.30'$   
 $e = 2.0\%$   
 $T.R. = 72.00'$   
 $S.E. RUN = 72.00'$   
 $P.C. STA. = 108+92.33$   
 $P.T. STA. = 129+38.55$

PR  $\oslash$  CHARLES J. MILLER RD. STA. = 534+04.04 =  
 PR  $\oslash$  ILLINOIS ROUTE 31 STA. 119+34.84  
 FOR CHARLES J. MILLER ROAD ALIGNMENT  
 AND CURVE DATA SEE SHEET 1

| GREEN STREET/BARREVILLE ROAD COORDINATE TABLE |           |            |            |
|---|-----------|------------|------------|
| DESCRIPTION                                   | STATION   | N          | E          |
| BEGIN PROJECT                                 | 205+55    | 2059188.87 | 1002021.62 |
| PC PGREEN-1                                   | 207+43.49 | 2059377.36 | 1002022.66 |
| PT PGREEN-1                                   | 208+79.28 | 2059513.12 | 1002025.25 |
| END PROJECT                                   | 215+08    | 2060141.51 | 1002045.78 |

PROP. CURVE PGREEN-1  
 PI STA. = 208+11.39  
 $\Delta = 1^\circ 33' 22''$  (RT)  
 $D = 1^\circ 08' 45''$   
 $R = 5,000.00'$   
 $T = 67.90'$   
 $L = 135.79'$   
 $E = 0.46'$   
 $e = N/A$   
 $T.R. = N/A$   
 $S.E. RUN = N/A$   
 $P.C. STA. = 207+43.49$   
 $P.T. STA. = 208+79.28$

FOR CHARLES J. MILLER ROAD ALIGNMENT  
 AND CURVE DATA SEE SHEET 1



SCALE IN FEET

COMPANY NAME: HRGreen  
 PROJECT CONTACT: Jeff Plish  
 DATE PLOTTED: 8/5/2014 3:37:01 PM  
 FILE NAME: 090071-tie-02.dgn  
 PLOT DRIVER: pdcfah  
 PEN TABLE: standard-trans.tbl



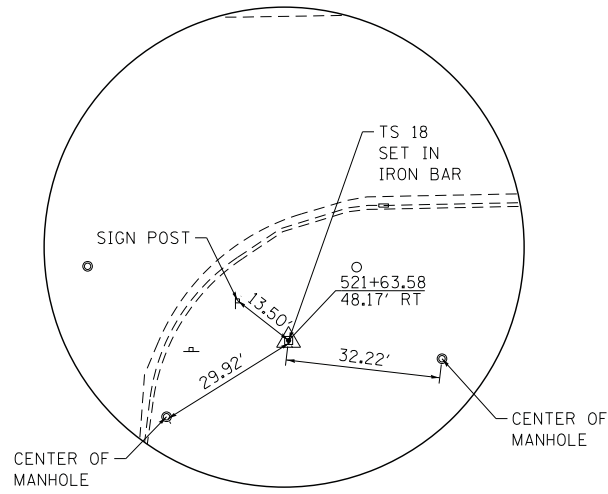
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| PLOT SCALE =                  | CHECKED - JLP  | REVISED -              |
| PLOT DATE = 8/5/2014          | DATE - 8/5/14  | REVISED -              |

**MCHENRY COUNTY  
 DIVISION OF TRANSPORTATION**

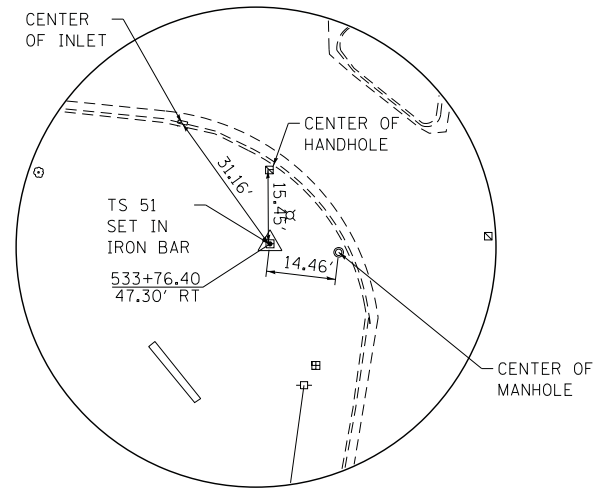
**ALIGNMENT, TIES, AND BENCHMARKS**

SCALE: SHEET NO. 2 OF 5 SHEETS STA. TO STA.

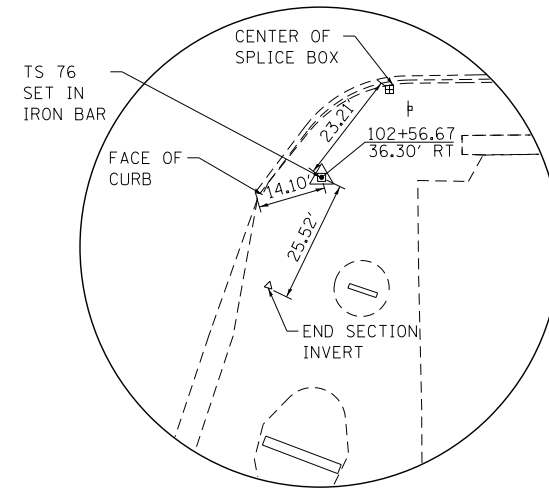
| F.A.U. RTE.                                   | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|----------------|---------|--------------|-----------|
| 3860  | 09-00372-02-PW | MCHENRY | 51           | 6         |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                |         | CONTRACT NO. |           |



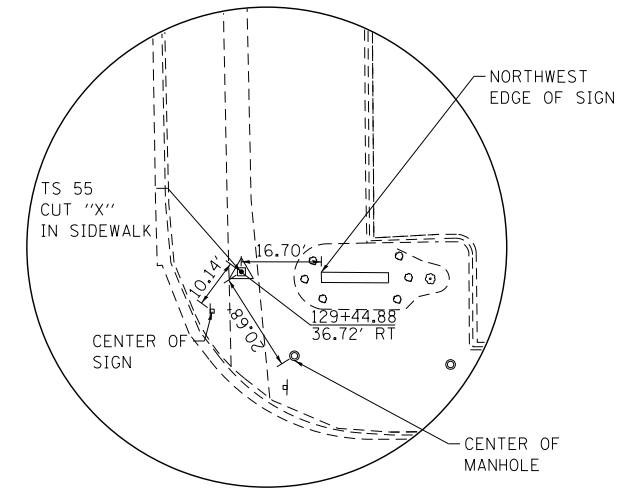
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E 998930.80



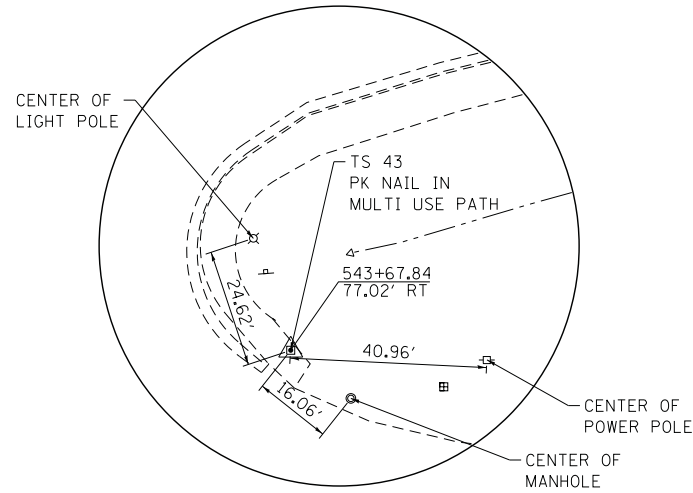
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E 1000143.95



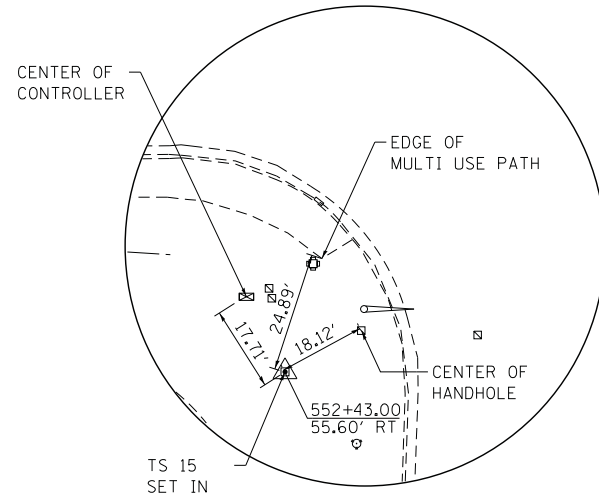
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E 999761.30



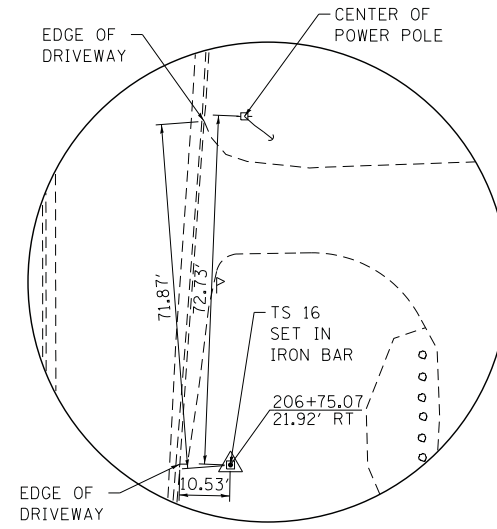
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E 1000270.68



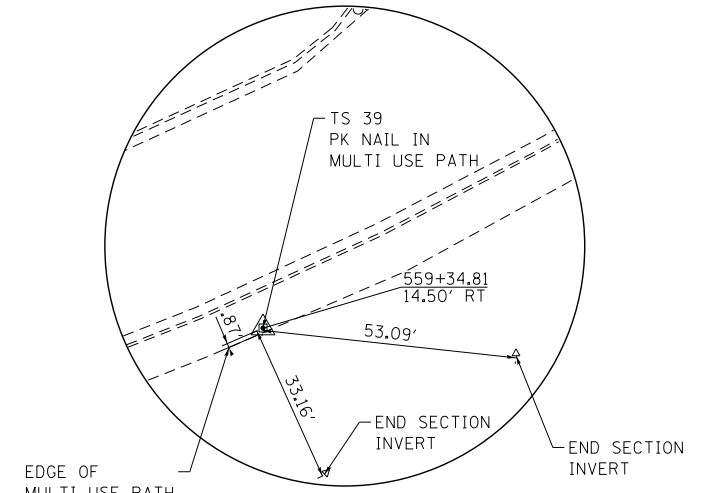
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E 1001131.52



TRAVERSE STATION #15  
N 2059711.64  
E 1001986.29



TRAVERSE STATION #16  
N 2059308.82  
E 1002044.20



TRAVERSE STATION #39  
N 2059824.98  
E 1002674.01

COMPANY NAME: Jeff Pugh  
PROJECT CONTACT: Jeff Pugh  
DATE PLOTTED: 8/5/2014 3:32:0 PM  
FILE NAME: 090071-tie-03.dgn  
PLOT DRIVER: pafplot  
PEN TABLE: standard-trans.tbl



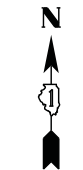
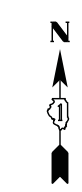
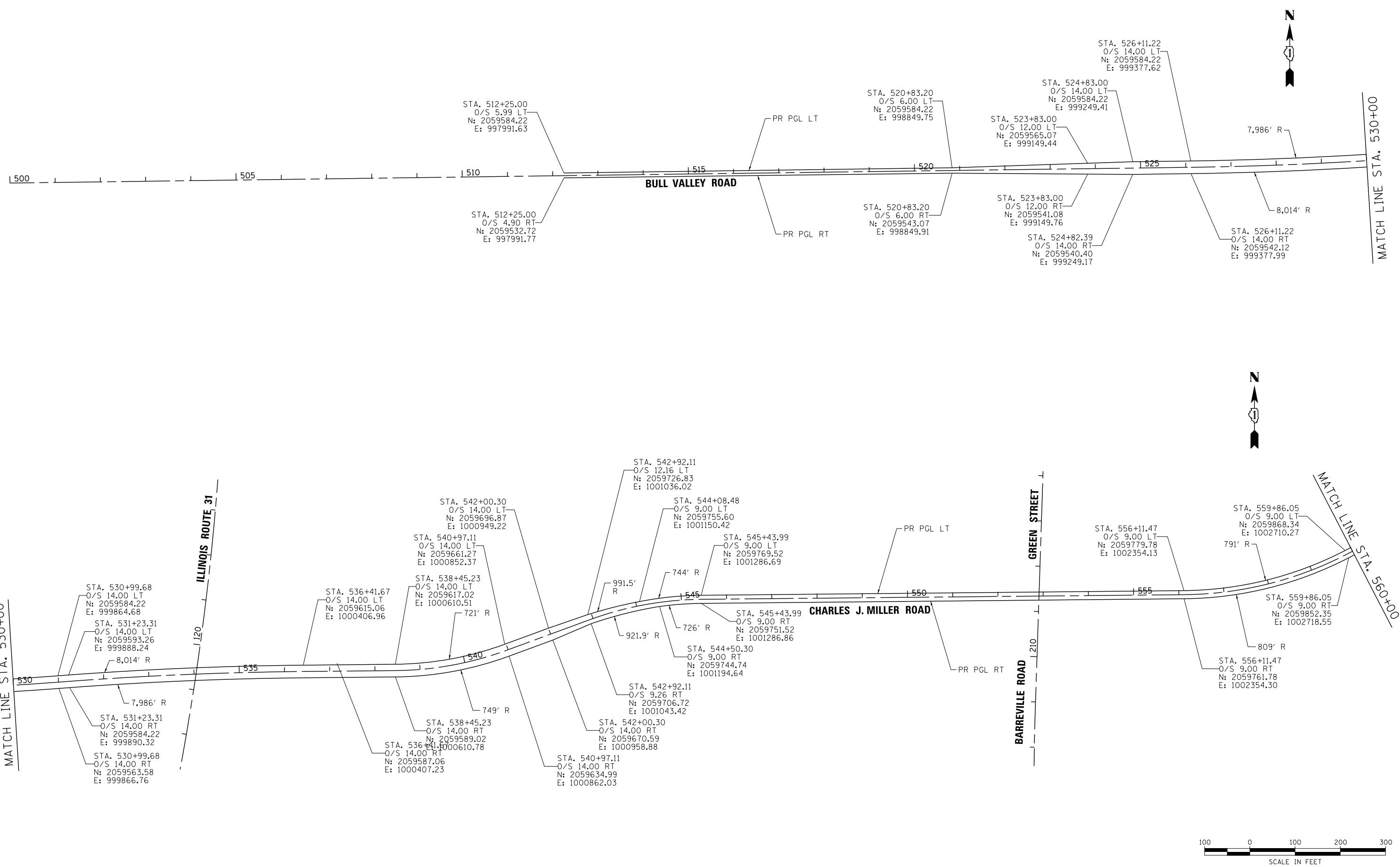
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|-------------------------------|----------------|-----------|
| USER NAME = tyeilton          | DESIGNED - TAY | REVISED - |
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| PLOT SCALE =                  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014          | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**ALIGNMENT, TIES, AND BENCHMARKS**

SCALE: SHEET NO. 3 OF 5 SHEETS STA. TO STA.

| F.A.U. RTE.                                   | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|----------------|---------|--------------|-----------|
| 3860  | 09-00372-02-PW | MCHENRY | 51           | 7         |
| CONTRACT NO.                                  |                |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                |         |              |           |



COMPANY NAME: HRGreen  
 PROJECT CONTACT: Jeff Pugh  
 PROJECT: Mchenry County Division of Transportation  
 DATE PLOTTED: 8/5/2014 3:26 PM  
 FILE NAME: 09071-tie-04.dgn  
 PLOT DRIVER: pafah  
 PEN TABLE: standard-trans.tbl



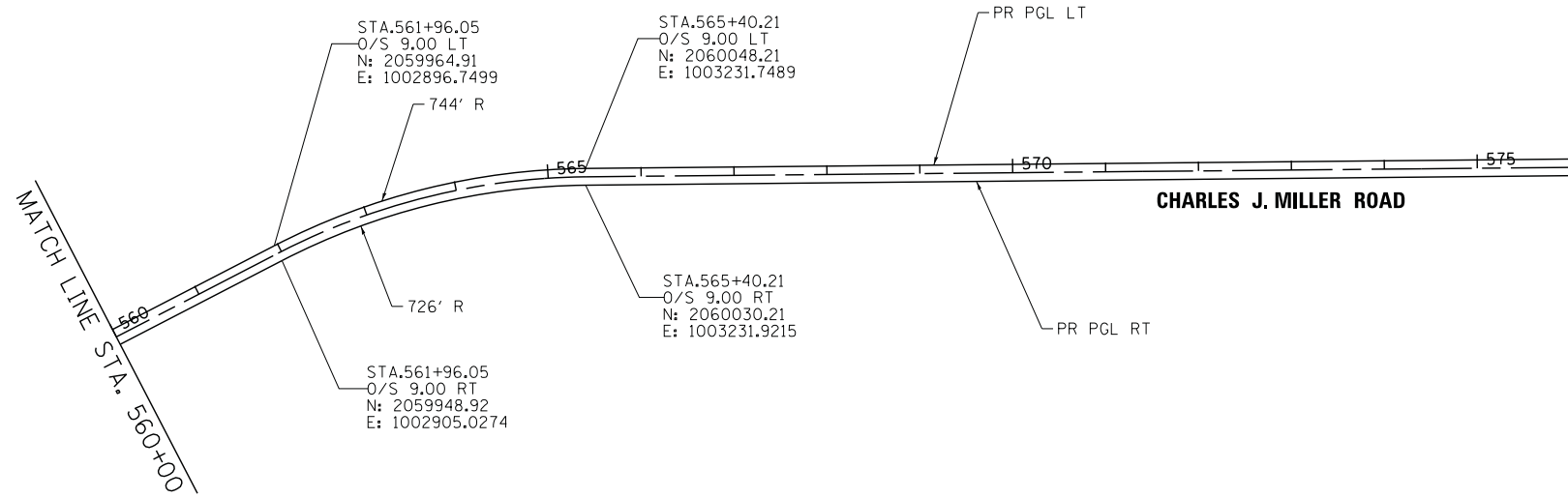
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|------------------------------|----------------|-----------|
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| FILE NAME = 09071-tie-04.dgn | DRAWN - WJH    | REVISED - |
| PLOT SCALE =                 | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014         | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
 DIVISION OF TRANSPORTATION**

|  |                         |
|--|-------------------------|
| <b>ALIGNMENT, TIES, AND BENCHMARKS</b> |                         |
| SCALE:                                 | SHEET NO. 4 OF 5 SHEETS |
| STA.                                   | TO STA.                 |

|   |                |         |              |           |
|---|----------------|---------|--------------|-----------|
| F.A.U. RTE.                                   | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 3860  | 09-00372-02-PW | MCHENRY | 51           | 8         |
| CONTRACT NO.                                  |                |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                |         |              |           |





COMPANY NAME: Jeff Pugh  
 PROJECT CONTACT: Mchenry County Division of Transportation  
 DATE PLOTTED: 8/5/2014 3:32:19 PM  
 FILE NAME: 090071-tie-05.dgn  
 PLOT DRIVER: pdfplot  
 PEN TABLE: standard-trans.tbl



|                               |                |           |
|-------------------------------|----------------|-----------|
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| PLOT DATE = 8/5/2014          | DATE - 8/5/14  | REVISED - |

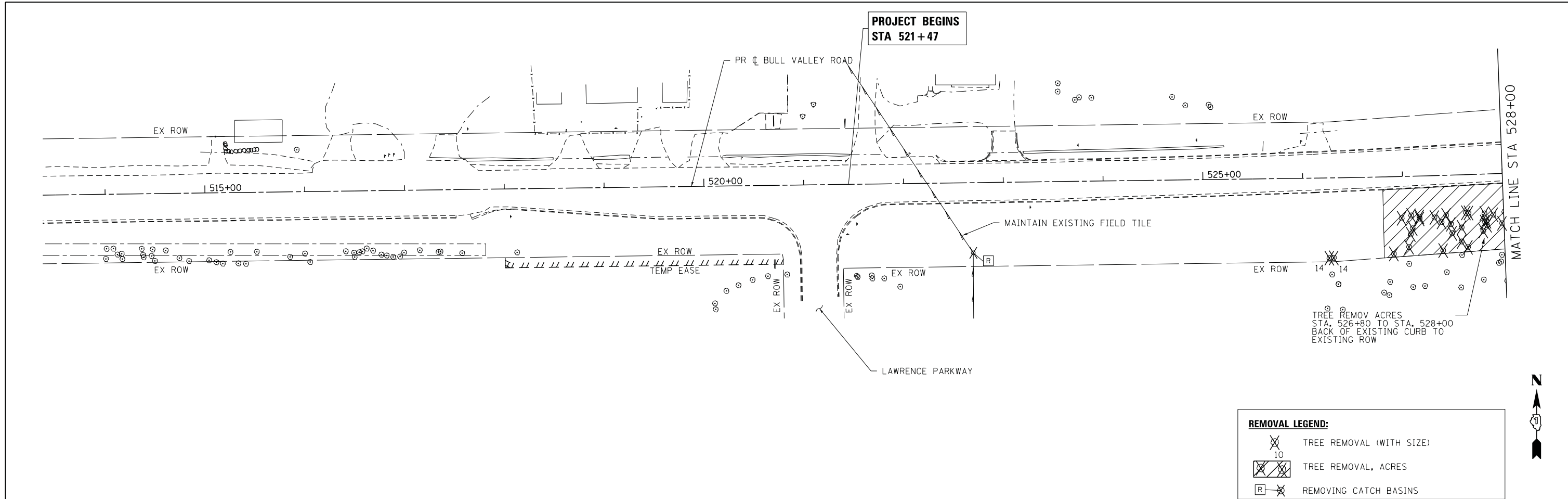
**MCHENRY COUNTY  
 DIVISION OF TRANSPORTATION**

**ALIGNMENT, TIES, AND BENCHMARKS**

SCALE: SHEET NO. 5 OF 5 SHEETS STA. TO STA.

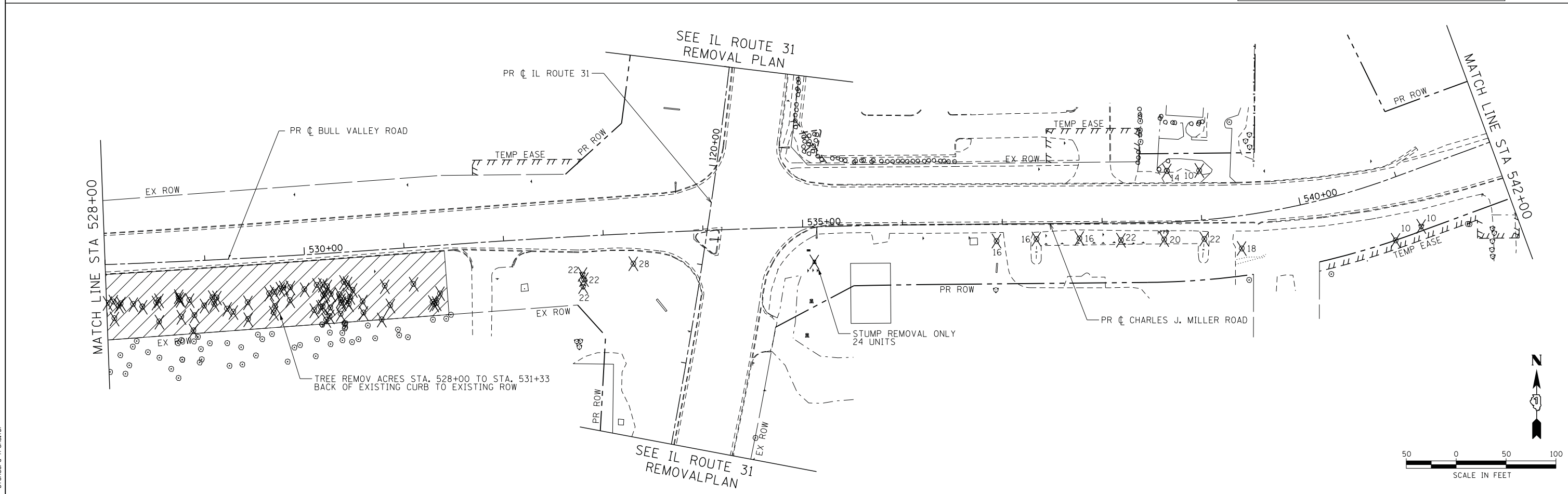


| F.A.U. RTE.                                   | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|----------------|---------|--------------|-----------|
| 3860  | 09-00372-02-PW | MCHENRY | 51           | 9         |
| CONTRACT NO.                                  |                |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                |         |              |           |



**REMOVAL LEGEND:**

- TREE REMOVAL (WITH SIZE)
- TREE REMOVAL, ACRES
- REMOVING CATCH BASINS



SCALE IN FEET



COMPANY NAME: Jeff Pugh  
 PROJECT CONTACT: Jeff Pugh  
 PROJECT: Mchenry County Division of Transportation  
 DATE PLOTTED: 8/5/2014 3:32:27 PM  
 FILE NAME: 090071-Tree-01.dgn  
 PLOT DRIVER: pafcat  
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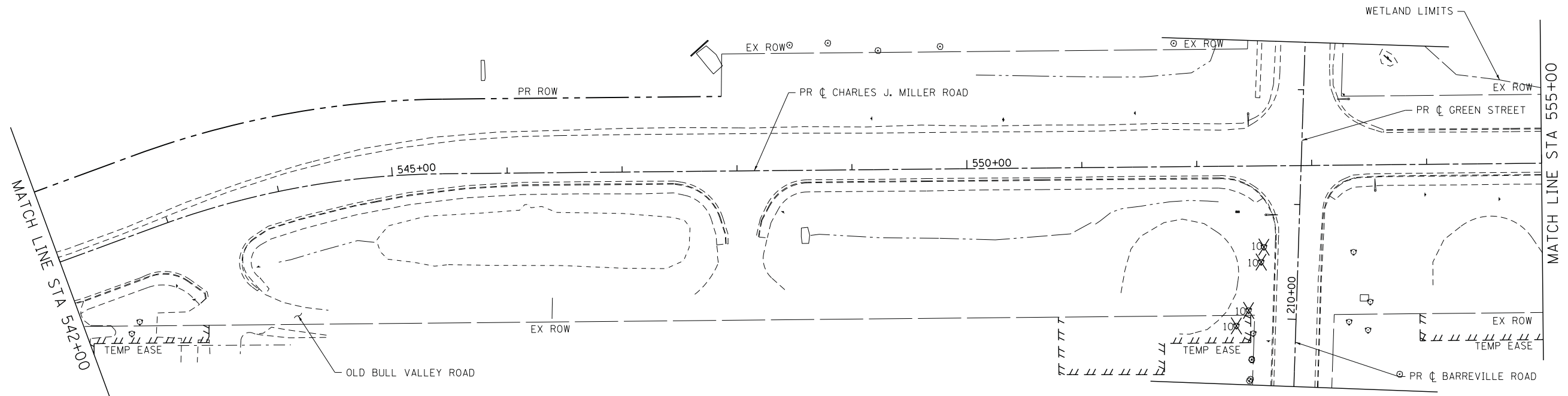
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| USER NAME = tyelton            | DESIGNED - TAY | REVISED - |
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| PLOT SCALE = 1"=50'            | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014           | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**REMOVAL PLAN  
BULL VALLEY /CHARLES J. MILLER ROAD IMPROVEMENTS**

SCALE: 1"=50'    SHEET NO. 1 OF 4 SHEETS    STA. 519+75 TO STA. 542+00

|                     |                |         |                           |           |
|---------------------|----------------|---------|---------------------------|-----------|
| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
| 3860                | 09-00372-02-PW | MCHENRY | 51                        | 10        |
| FED. ROAD DIST. NO. |                |         | ILLINOIS FED. AID PROJECT |           |



**REMOVAL LEGEND:**

- TREE REMOVAL (WITH SIZE)
- TREE REMOVAL, ACRES
- REMOVING CATCH BASINS



COMPANY NAME: HRGreen  
 PROJECT CONTACT: Jeff Pugh  
 PROJECT: Mchenry County, Division of Transportation  
 DATE PLOTTED: 8/5/2014 3:23:53 PM  
 FILE NAME: 090071-tree-02.dgn  
 PLOT DRIVER: pdfplot  
 PEN TABLE: standard-trans.tbl



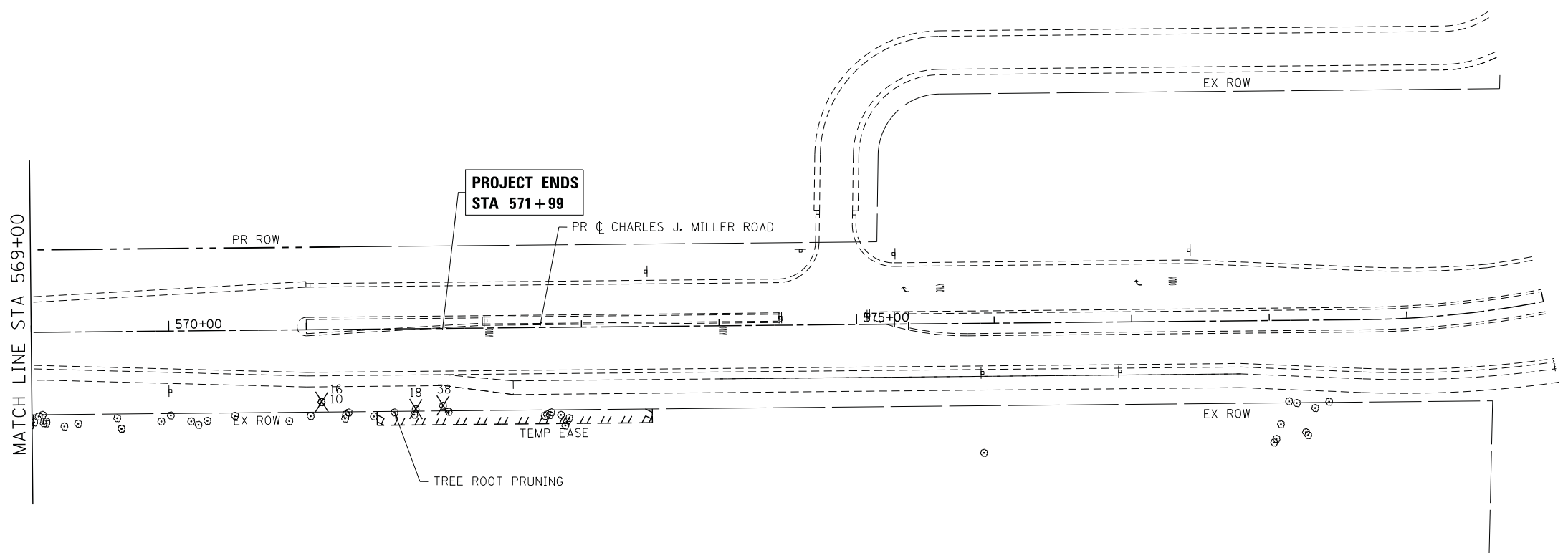
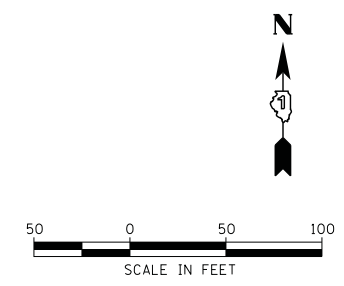
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| USER NAME = tyelton            | DESIGNED - TAY | REVISED - |
| FILE NAME = 090071-tree-02.dgn | DRAWN - WJH    | REVISED - |
| PLOT SCALE = 1"=50'            | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014           | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
 DIVISION OF TRANSPORTATION**

**REMOVAL PLAN  
 CHARLES J. MILLER ROAD IMPROVEMENTS**

SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. 542+00 TO STA. 569+00

|                     |                |                           |              |           |
|---------------------|----------------|---------------------------|--------------|-----------|
| F.A.U. RTE.         | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 3860                | 09-00372-02-PW | MCHENRY                   | 51           | 11        |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |



**REMOVAL LEGEND:**

|  |                          |
|--|--------------------------|
|  | TREE REMOVAL (WITH SIZE) |
|  | TREE REMOVAL, ACRES      |
|  | REMOVING CATCH BASINS    |

COMPANY NAME: Jeff Pugh  
 PROJECT CONTACT: Mchenry County, Division of Transportation  
 DATE PLOTTED: 8/5/2014 3:32:38 PM  
 FILE NAME: 090071-tree-03.dgn  
 PLOT DRIVER: pafah  
 PEN TABLE: standard-trans.tbl



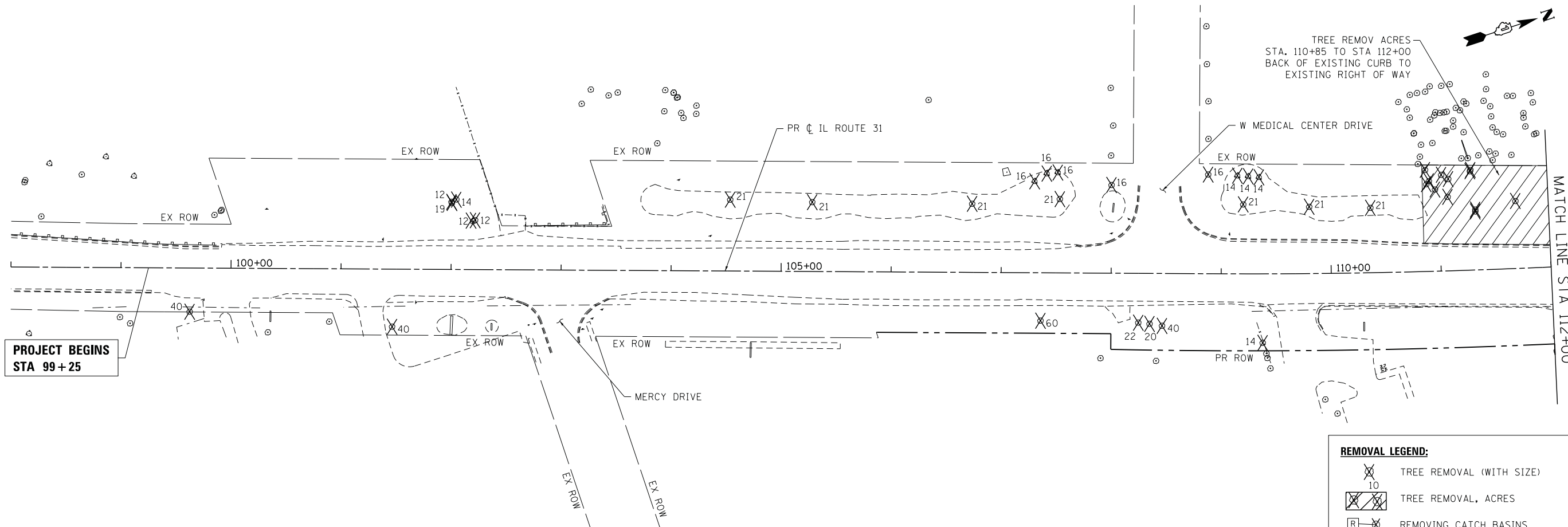
|                                |                |           |
|--------------------------------|----------------|-----------|
| USER NAME = tyelton            | DESIGNED - TAY | REVISED - |
| FILE NAME = 090071-tree-03.dgn | DRAWN - WJH    | REVISED - |
| PLOT SCALE = 1"=50'            | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014           | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
 DIVISION OF TRANSPORTATION**

**REMOVAL PLAN  
 CHARLES J. MILLER ROAD IMPROVEMENTS**

|   |                |         |              |           |
|---|----------------|---------|--------------|-----------|
| F.A.U. RTE.                                   | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 3860  | 09-00372-02-PW | MCHENRY | 51           | 12        |
| CONTRACT NO.                                  |                |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                |         |              |           |

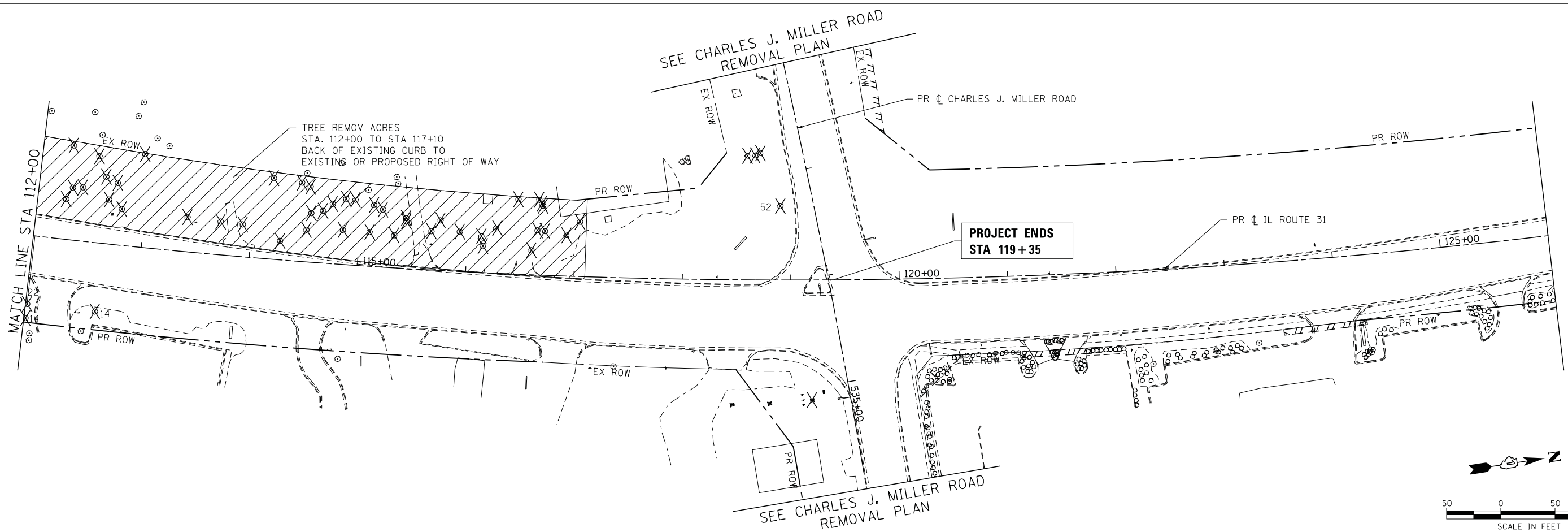
SCALE: 1"=50' SHEET NO. 3 OF 4 SHEETS STA. 569+00 TO STA. 571+00



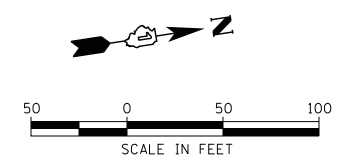
**PROJECT BEGINS  
STA 99 + 25**

**REMOVAL LEGEND:**

- TREE REMOVAL (WITH SIZE)
- TREE REMOVAL, ACRES
- REMOVING CATCH BASINS



**PROJECT ENDS  
STA 119 + 35**



COMPANY NAME: HRGreen  
 PROJECT CONTACT: Jeff Pligh  
 PROJECT ADDRESS: Mchenry County, Division of Transportation  
 DATE PLOTTED: 8/5/2014 3:24:44 PM  
 FILE NAME: 090071-tree-04.dgn  
 PLOT DRIVER: pafait  
 PEN TABLE: standard-trans.tbl



|                                |                |           |
|--------------------------------|----------------|-----------|
| USER NAME = tyelton            | DESIGNED - TAY | REVISED - |
| FILE NAME = 090071-tree-04.dgn | DRAWN - WJH    | REVISED - |
| PLOT SCALE = 1"=50'            | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014           | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

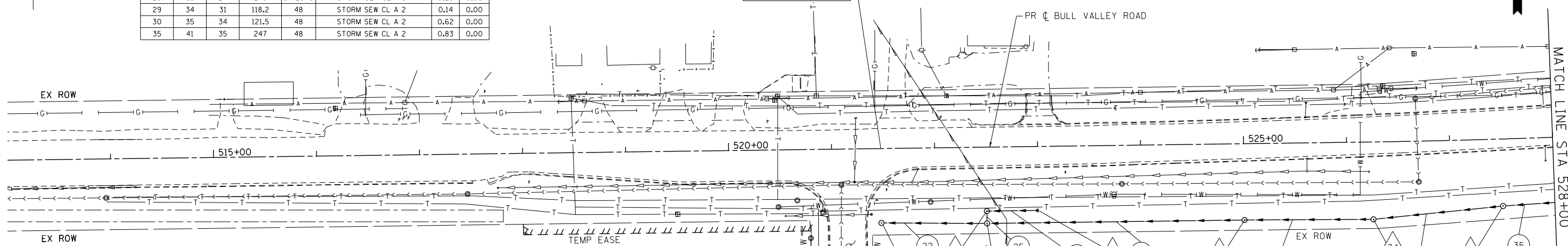
**REMOVAL PLAN  
ILLINOIS ROUTE 31 IMPROVEMENTS**

SCALE: 1"=50' SHEET NO. 4 OF 4 SHEETS STA. 99+25 TO STA. 126+00

|                     |                |                           |              |           |
|---------------------|----------------|---------------------------|--------------|-----------|
| F.A.U. RTE.         | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 3860                | 09-00372-02-PW | MCHENRY                   | 51           | 13        |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

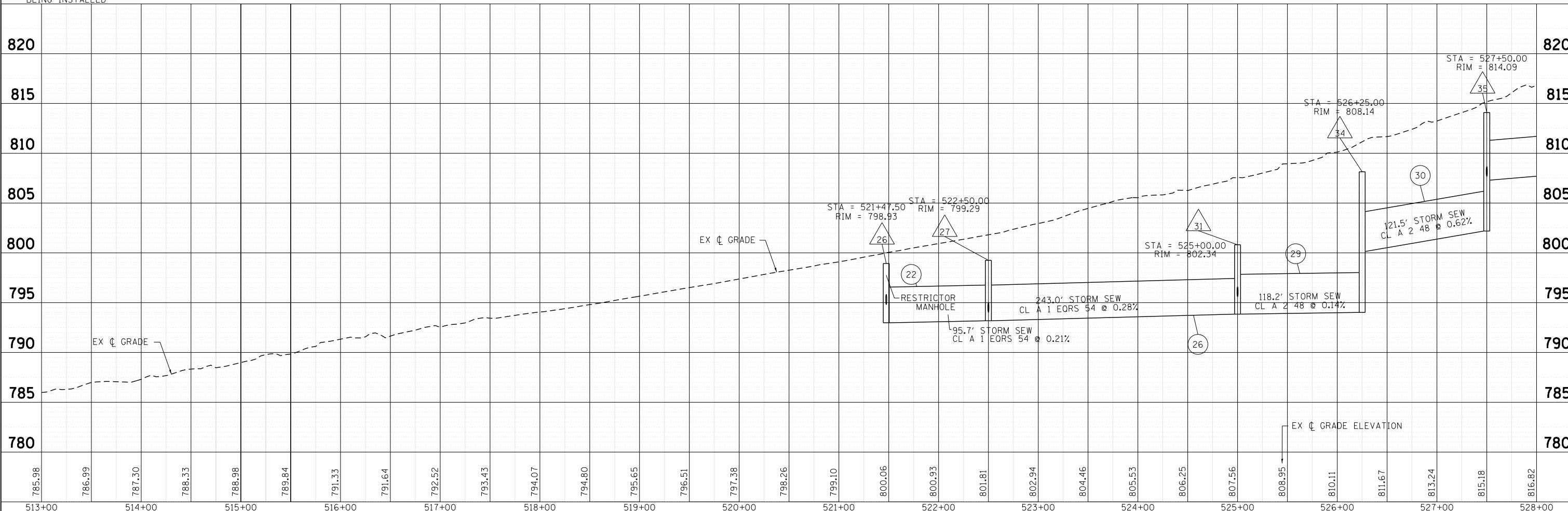
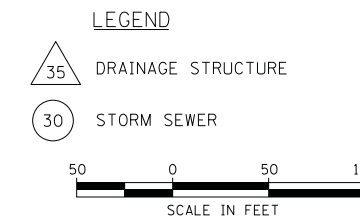
| STORM SEWER SCHEDULE - BULL VALLEY ROAD |      |    |             |         |                  |           |                |
|---|------|----|-------------|---------|------------------|-----------|----------------|
| PIPE #                                  | FROM | TO | LENGTH (FT) | DIA     | TYPE             | SLOPE (%) | T.B.F. (CU YD) |
| 22                                      | 27   | 26 | 95.7        | 54 EORS | STORM SEW CL A 1 | 0.21      | 0.00           |
| 24                                      | 30   | 28 | 41.9        | 12      | STORM SEW CL A 1 | 5.00      | 0.00           |
| 25                                      | 28   | 27 | 11.1        | 12      | STORM SEW CL A 2 | 1.00      | 0.00           |
| 26                                      | 31   | 27 | 243         | 54 EORS | STORM SEW CL A 1 | 0.28      | 0.00           |
| 29                                      | 34   | 31 | 118.2       | 48      | STORM SEW CL A 2 | 0.14      | 0.00           |
| 30                                      | 35   | 34 | 121.5       | 48      | STORM SEW CL A 2 | 0.62      | 0.00           |
| 35                                      | 41   | 35 | 247         | 48      | STORM SEW CL A 2 | 0.83      | 0.00           |

PROJECT BEGINS  
STA 521+47



| DRAINAGE STRUCTURE SCHEDULE - BULL VALLEY ROAD |           |       |  |          |         |    |         |    |        |    |   |        |  |
|--|-----------|-------|--|----------|---------|----|---------|----|--------|----|---|--------|--|
| STR #  | STA.      | OFF   | STRUCTURE TYPE   | RIM ELEV | INVERTS |    |         |    |        |    |   |        |  |
|  |           |       |  |          | N       | NW | W       | SW | S      | SE | E | NE     |  |
| 26   | 521+47.50 | 72.10 | DRAINAGE STRUCTURES, WITH RESTRICTOR PLATE AND TWO TYPE 1 FRAMES, CLOSED LID | 798.93   | 794.82* |    | 792.98* |    |        |    |   | 792.98 |  |
| 27   | 522+50.00 | 78.60 | MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID                      | 799.29   | 794.23  |    | 793.18  |    |        |    |   | 793.18 |  |
| 28   | 522+50.00 | 64.50 | MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID                      | 799.13   | 795.73* |    |         |    | 794.40 |    |   | 794.40 |  |
| 30   | 523+00.00 | 62.00 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12"                          |          |         |    |         |    |        |    |   | 796.50 |  |
| 31   | 525+00.00 | 78.60 | MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID                      | 802.34   | 795.59* |    | 793.85  |    |        |    |   | 793.85 |  |
| 34   | 526+25.00 | 75.00 | MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID                      | 808.14   |         |    | 794.02  |    |        |    |   | 800.14 |  |
| 35   | 527+50.00 | 65.00 | MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID                      | 814.09   | 808.64* |    | 800.89  |    |        |    |   | 807.30 |  |

\* NOTE:  
THE CONTRACTOR SHALL PROVIDE INVERTS FOR FUTURE STORM CONNECTIONS.  
THESE INVERTS SHALL BE BRICKED SHUT UNTIL THE FUTURE WORK IS DONE.  
THIS WORK WILL BE INCLUDED IN THE COST OF THE DRAINAGE STRUCTURE BEING INSTALLED



| PLAN | DATE | BY |
|------|------|----|
|      |      |    |

| PROFILE | DATE | BY |
|---------|------|----|
|         |      |    |

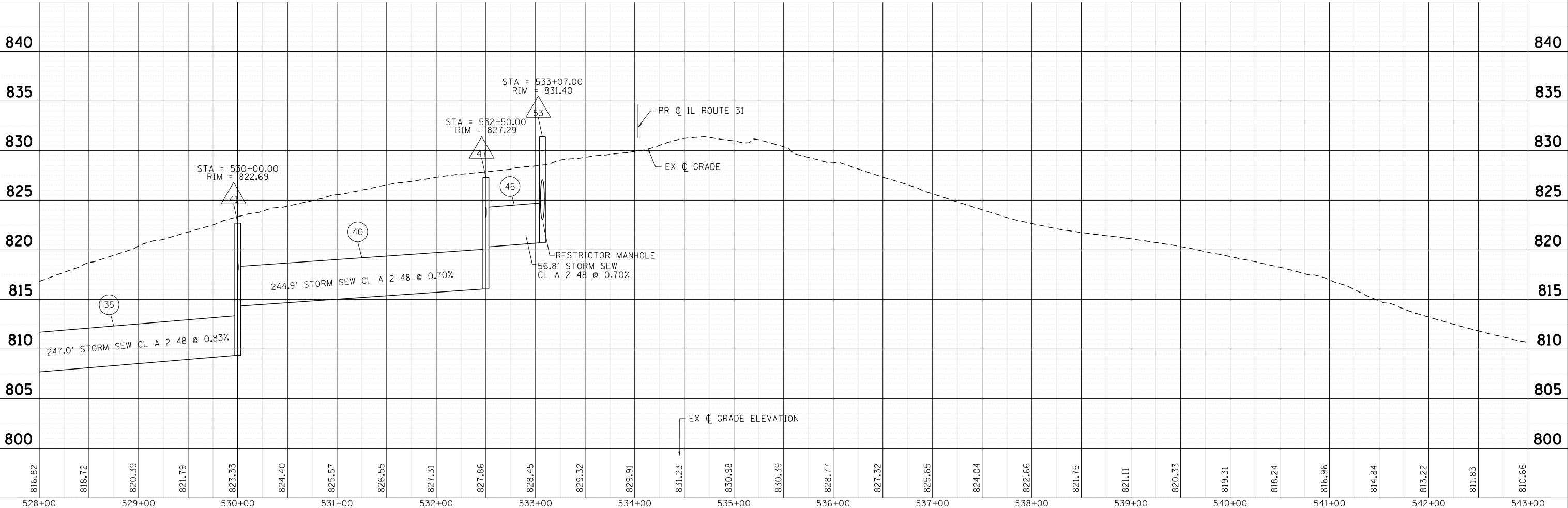
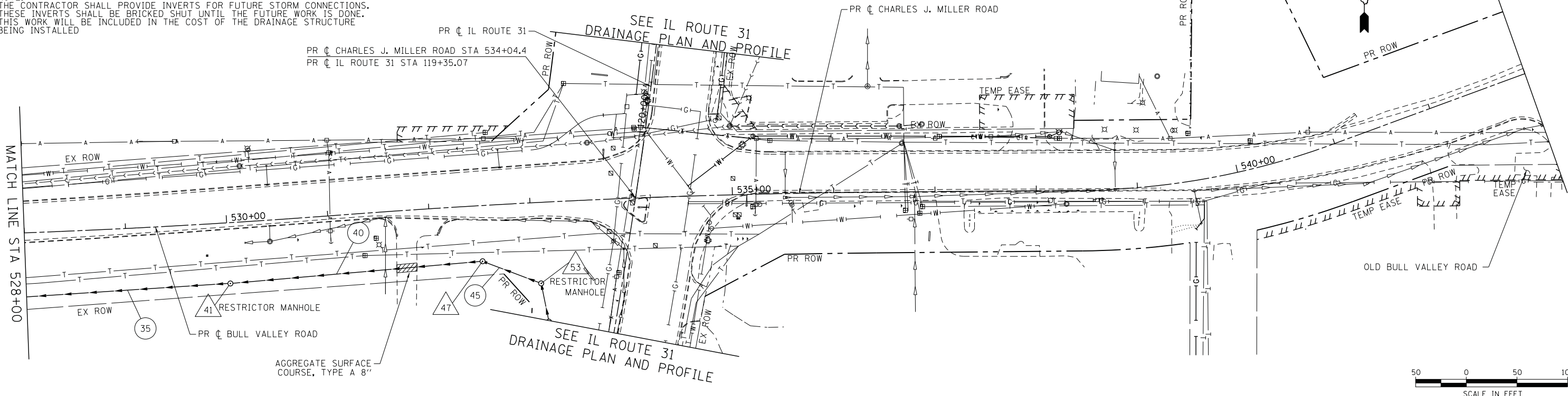
COMPANY NAME: Jeff Pfling  
PROJECT CONTACT: Mchenry County Division of Transportation  
CLIENT: 8/5/2014 3:52:52 PM  
FILE NAME: 090071-Storm-01.dgn  
PLOT NUMBER: 090071-Storm-01.dgn  
PER TABLE: 090071-Storm-01.dgn

|  |   |   |  |  |  |  |                                     |
|--|---|---|--|--|--|--|-------------------------------------|
|  | USER NAME = tye1ton<br>FILE NAME = 090071-Storm-01.dgn<br>PLOT SCALE = 1"=50'<br>PLOT DATE = 8/5/2014 | DESIGNED - TAY<br>DRAWN - WJH<br>CHECKED - JLP<br>DATE - 8/5/14 | REVISED -<br>REVISED -<br>REVISED -<br>REVISED - | <b>MCHENRY COUNTY<br/>DIVISION OF TRANSPORTATION</b> | <b>DRAINAGE AND UTILITY PLAN<br/>BULL VALLEY ROAD IMPROVEMENTS</b> | F.A.U. R.T.E. = 3860<br>SECTION = 09-00372-02-PW<br>COUNTY = MCHENRY<br>CONTRACT NO. = | TOTAL SHEETS = 51<br>SHEET NO. = 14 |
|  | SCALE: 1"=50'      SHEET NO. 1 OF 4 SHEETS      STA. 519+75 TO STA. 528+00                            |   |  |  |  | ILLINOIS FED. AID PROJECT  |                                     |

| DRAINAGE STRUCTURE SCHEDULE - BULL VALLEY ROAD |           |       |  |        |         |    |        |    |        |    |        |
|--|-----------|-------|--|--------|---------|----|--------|----|--------|----|--------|
| STR #  | STA.      | OFF   | STRUCTURE TYPE   | RIM    |         |    |        |    |        |    |        |
|  |           |       |  | ELEV   | N       | NW | W      | SW | S      | SE | E      |
| 41   | 530+00.00 | 60.00 | DRAINAGE STRUCTURES, WITH RESTRICTOR PLATE AND TWO TYPE 1 FRAMES, CLOSED LID | 822.69 | 817.74* |    | 809.35 |    |        |    | 814.34 |
| 47   | 532+50.00 | 55.00 | MANHOLES, TYPE A, 7'-DIAMETER, TYPE 1 FRAME, CLOSED LID                      | 827.29 | 823.30* |    | 816.05 |    |        |    | 820.30 |
| 53   | 533+07.00 | 80.00 | DRAINAGE STRUCTURES, WITH RESTRICTOR PLATE AND TWO TYPE 1 FRAMES, CLOSED LID | 831.40 |         |    | 820.70 |    | 823.05 |    |        |

| STORM SEWER SCHEDULE - BULL VALLEY ROAD |      |    |             |     |                  |           |                |
|---|------|----|-------------|-----|------------------|-----------|----------------|
| PIPE #                                  | FROM | TO | LENGTH (FT) | DIA | TYPE             | SLOPE (%) | T.B.F. (CU YD) |
| 40                                      | 47   | 41 | 244.9       | 48  | STORM SEW CL A 2 | 0.70      | 42.00          |
| 45                                      | 53   | 47 | 56.8        | 48  | STORM SEW CL A 2 | 0.70      | 0.00           |

\* NOTE:  
THE CONTRACTOR SHALL PROVIDE INVERTS FOR FUTURE STORM CONNECTIONS.  
THESE INVERTS SHALL BE BRICKED SHUT UNTIL THE FUTURE WORK IS DONE.  
THIS WORK WILL BE INCLUDED IN THE COST OF THE DRAINAGE STRUCTURE BEING INSTALLED



|      |           |      |
|------|-----------|------|
| PLAN | SURVEYED  | DATE |
|      | PLOTTED   | BY   |
|      | CHECKED   |      |
|      | AT        |      |
|      | FILE NAME |      |
|      | NO.       |      |

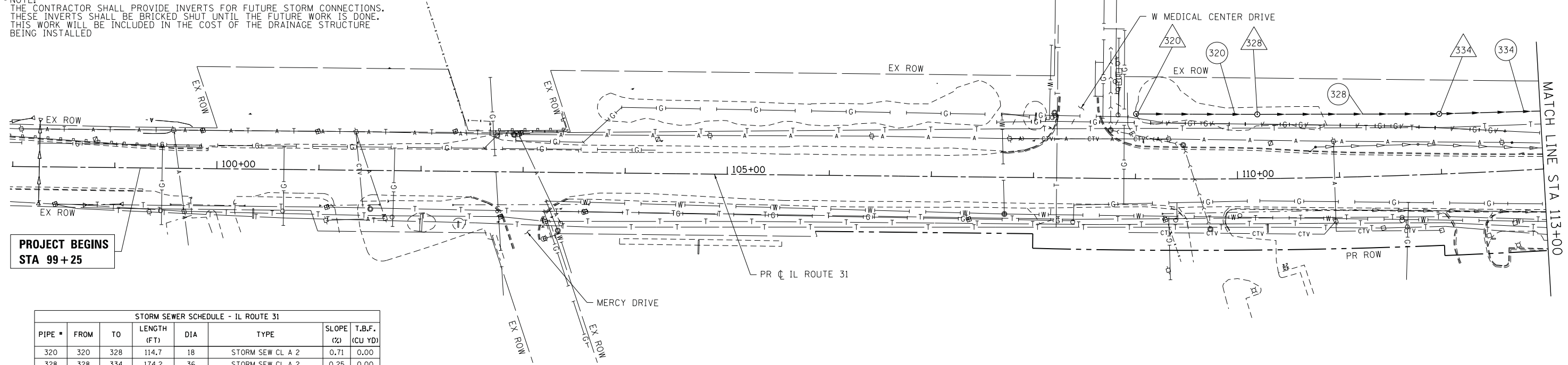
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| PROFILE | SURVEYED  | DATE |
|         | PLOTTED   | BY   |
|         | CHECKED   |      |
|         | AT        |      |
|         | FILE NAME |      |
|         | NO.       |      |

COMPANY NAME: Jeff Pfling  
PROJECT CONTACT: McHenry County Division of Transportation  
CLIENT: 8/5/2014 3:15:58 PM  
FILE NAME: 090071-Storm-02.dgn  
PLOT DATE: 8/5/2014  
PLOT SCALE: 1"=50'

|  |   |   |  |  |  |  |                                     |
|--|---|---|--|--|--|--|-------------------------------------|
|  | USER NAME = tye1ton<br>FILE NAME = 090071-Storm-02.dgn<br>PLOT SCALE = 1"=50'<br>PLOT DATE = 8/5/2014 | DESIGNED - TAY<br>DRAWN - WJH<br>CHECKED - JLP<br>DATE - 8/5/14 | REVISED -<br>REVISED -<br>REVISED -<br>REVISED - | <b>MCHENRY COUNTY<br/>DIVISION OF TRANSPORTATION</b> | <b>DRAINAGE AND UTILITY PLAN<br/>BULL VALLEY ROAD IMPROVEMENTS</b> | F.A.U. R.T.E. = 3860<br>SECTION = 09-00372-02-PW<br>COUNTY = MCHENRY<br>CONTRACT NO. = | TOTAL SHEETS = 51<br>SHEET NO. = 15 |
|  | SCALE: 1"=50'    SHEET NO. 2 OF 4 SHEETS    STA. 528+00 TO STA. 543+00                                |   |  |  |  | ILLINOIS FED. AID PROJECT  |                                     |

| DRAINAGE STRUCTURE SCHEDULE - ILLINOIS ROUTE 31 |           |        |   |        |        |         |    |   |    |         |    |         |
|---|-----------|--------|---|--------|--------|---------|----|---|----|---------|----|---------|
| STR #   | STA.      | OFF    | STRUCTURE TYPE  | RIM    |        | INVERTS |    |   |    |         |    |         |
|   |           |        |   | ELEV   |        | N       | NW | W | SW | S       | SE | E       |
| 320   | 109+00.00 | -63.50 | MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID | 838.76 | 827.69 |         |    |   |    | 827.69* |    |         |
| 328   | 110+20.00 | -63.00 | MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID | 837.18 | 825.41 |         |    |   |    | 826.87  |    | 832.13* |
| 334   | 112+00.00 | -59.00 | MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID | 835.52 | 824.97 |         |    |   |    | 824.97  |    | 831.94* |

\*NOTE:  
THE CONTRACTOR SHALL PROVIDE INVERTS FOR FUTURE STORM CONNECTIONS.  
THESE INVERTS SHALL BE BRICKED SHUT UNTIL THE FUTURE WORK IS DONE.  
THIS WORK WILL BE INCLUDED IN THE COST OF THE DRAINAGE STRUCTURE  
BEING INSTALLED



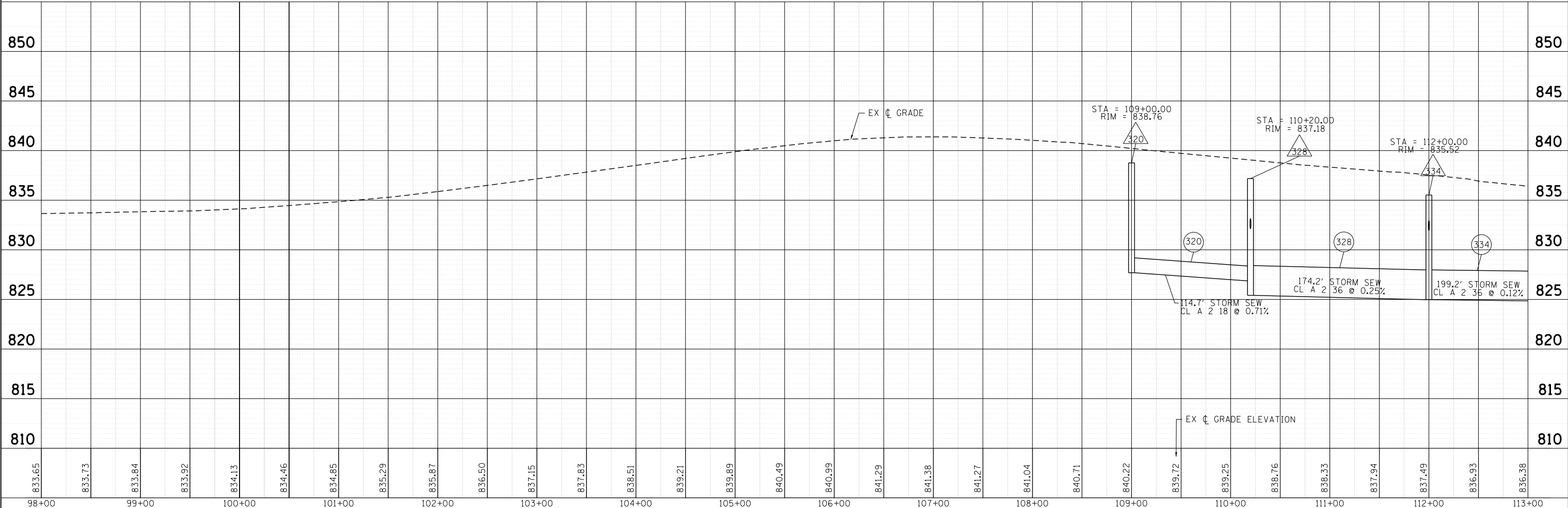
PROJECT BEGINS  
STA 99+25

| STORM SEWER SCHEDULE - IL ROUTE 31 |      |     |             |     |                  |           |                |
|------------------------------------|------|-----|-------------|-----|------------------|-----------|----------------|
| PIPE #                             | FROM | TO  | LENGTH (FT) | DIA | TYPE             | SLOPE (%) | T.B.F. (CU YD) |
| 320                                | 320  | 328 | 114.7       | 18  | STORM SEW CL A 2 | 0.71      | 0.00           |
| 328                                | 328  | 334 | 174.2       | 36  | STORM SEW CL A 2 | 0.25      | 0.00           |
| 334                                | 334  | 339 | 199.2       | 36  | STORM SEW CL A 2 | 0.12      | 0.00           |



|      |           |      |
|------|-----------|------|
| PLAN | SURVEYED  | DATE |
|      | PLOTTED   | BY   |
|      | CHECKED   |      |
|      | AT        |      |
|      | FILE NAME |      |
|      | NO.       |      |

|         |           |      |
|---------|-----------|------|
| PROFILE | SURVEYED  | DATE |
|         | PLOTTED   | BY   |
|         | CHECKED   |      |
|         | AT        |      |
|         | FILE NAME |      |
|         | NO.       |      |



COMPANY NAME: Jeff Pfling  
PROJECT CONTACT: McHenry County Division of Transportation  
CLIENT: 8/5/2014 3:58:06 PM  
FILE NAME: 090071-Storm-08.dgn  
PLOT DATE: 8/5/2014  
PLOT SCALE: 1"=50'

|         |                                |
|---------|--------------------------------|
| HRGreen | HRGreen.com                    |
|         | Micro Professional Design Firm |
|         | #184-001322                    |

|                                 |                |           |
|---------------------------------|----------------|-----------|
| USER NAME = tje1ton             | DESIGNED - TAY | REVISED - |
| FILE NAME = 090071-Storm-08.dgn | DRAWN - WJH    | REVISED - |
| PLOT SCALE = 1"=50'             | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014            | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**DRAINAGE AND UTILITY PLAN  
ILLINOIS ROUTE 31 IMPROVEMENTS**

SCALE: 1"=50' SHEET NO. 3 OF 4 SHEETS STA. 99+25 TO STA. 113+00

| F.A.U. RTE.  | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|--------------|----------------|---------|--------------|-----------|
| 3860         | 09-00372-02-PW | MCHENRY | 51           | 16        |
| CONTRACT NO. |                |         |              |           |

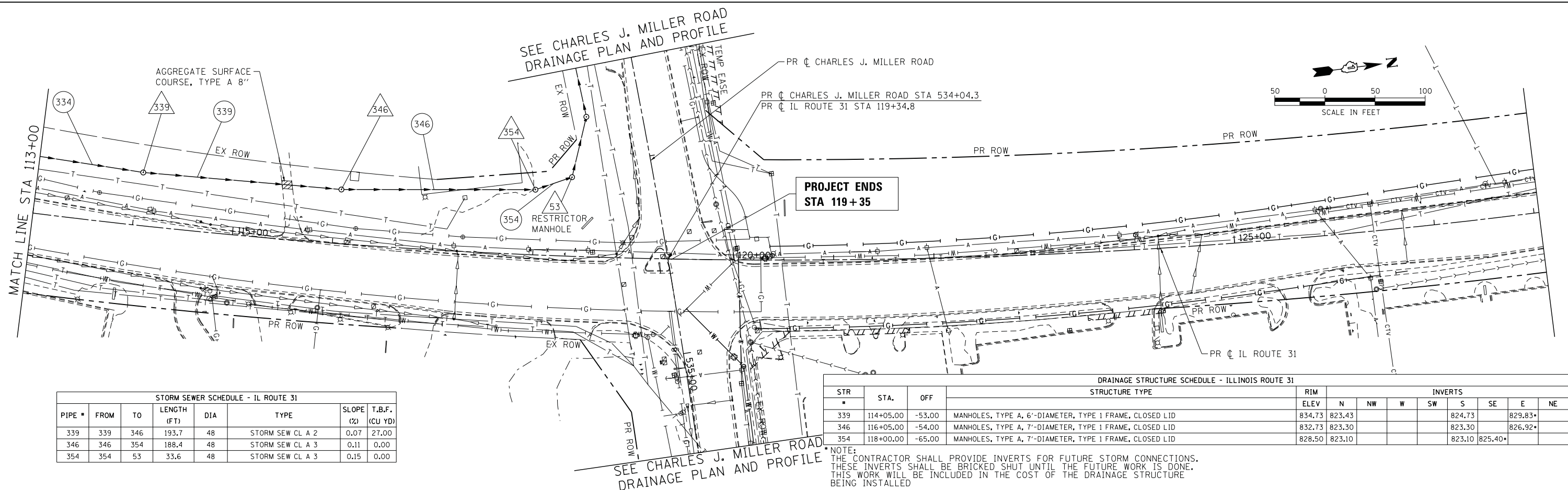
ILLINOIS FED. AID PROJECT



|      |                          |      |
|------|--------------------------|------|
| PLAN | SURVEYED                 | DATE |
|      | PLOTTED                  | BY   |
|      | GRADES CHECKED           |      |
|      | STRUCTURE NOTATIONS OK'D |      |
|      | NOTE BOOK NO.            |      |
|      | DATE                     |      |

|         |                          |      |
|---------|--------------------------|------|
| PROFILE | SURVEYED                 | DATE |
|         | PLOTTED                  | BY   |
|         | GRADES CHECKED           |      |
|         | STRUCTURE NOTATIONS OK'D |      |
|         | NOTE BOOK NO.            |      |
|         | DATE                     |      |

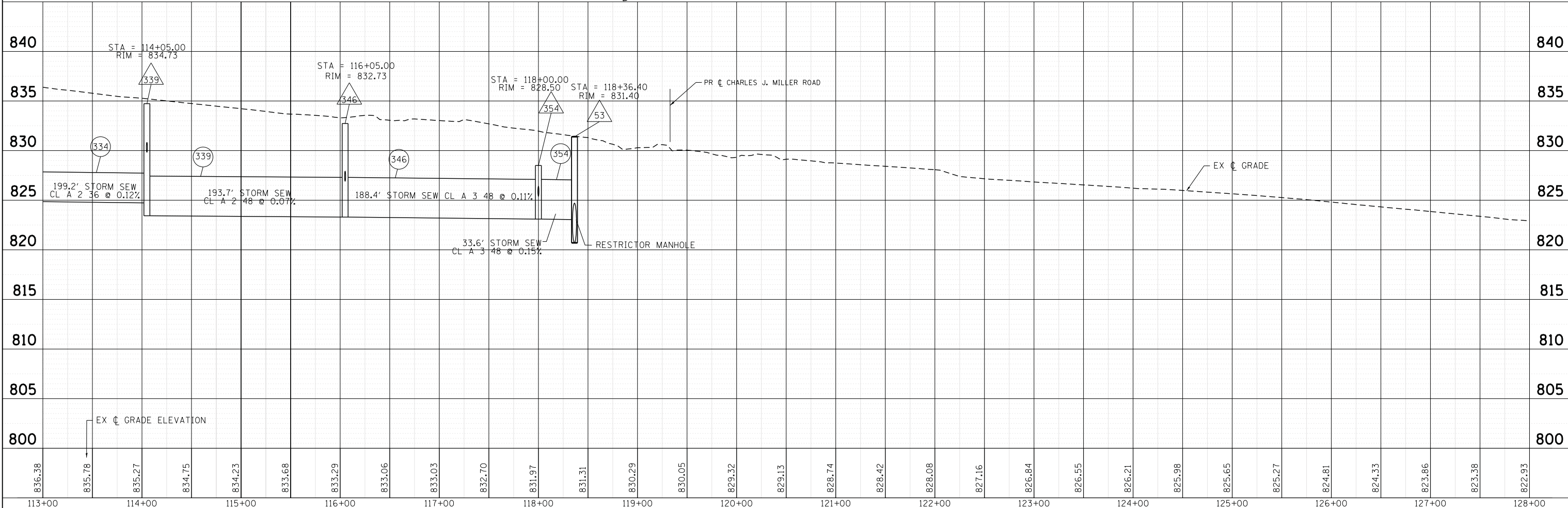
COMPANY NAME: Jeff Pfling  
 PROJECT CONTACT: McHenry County Division of Transportation  
 CLIENT: 8/5/2014 3:58:13 PM  
 FILE NAME: 090071-Storm-09.dgn  
 PLOT DATE: 8/5/2014  
 PLOT SCALE: 1"=50'  
 PLOT BY: JLP



| PIPE # | FROM | TO  | LENGTH (FT) | DIA | TYPE             | SLOPE (%) | T.B.F. (CU YD) |
|--------|------|-----|-------------|-----|------------------|-----------|----------------|
| 339    | 339  | 346 | 193.7       | 48  | STORM SEW CL A 2 | 0.07      | 27.00          |
| 346    | 346  | 354 | 188.4       | 48  | STORM SEW CL A 3 | 0.11      | 0.00           |
| 354    | 354  | 53  | 33.6        | 48  | STORM SEW CL A 3 | 0.15      | 0.00           |

| STR # | STA.      | OFF    | STRUCTURE TYPE  | RIM    |        |    |   |    |   |        |   |    |         |
|-------|-----------|--------|---|--------|--------|----|---|----|---|--------|---|----|---------|
|       |           |        |   | ELEV   | N      | NW | W | SW | S | SE     | E | NE |         |
| 339   | 114+05.00 | -53.00 | MANHOLES, TYPE A, 6"-DIAMETER, TYPE 1 FRAME, CLOSED LID | 834.73 | 823.43 |    |   |    |   | 824.73 |   |    | 829.83* |
| 346   | 116+05.00 | -54.00 | MANHOLES, TYPE A, 7"-DIAMETER, TYPE 1 FRAME, CLOSED LID | 832.73 | 823.30 |    |   |    |   | 823.30 |   |    | 826.92* |
| 354   | 118+00.00 | -65.00 | MANHOLES, TYPE A, 7"-DIAMETER, TYPE 1 FRAME, CLOSED LID | 828.50 | 823.10 |    |   |    |   | 823.10 |   |    | 825.40* |

\*NOTE: THE CONTRACTOR SHALL PROVIDE INVERTS FOR FUTURE STORM CONNECTIONS. THESE INVERTS SHALL BE BRICKED SHUT UNTIL THE FUTURE WORK IS DONE. THIS WORK WILL BE INCLUDED IN THE COST OF THE DRAINAGE STRUCTURE BEING INSTALLED.

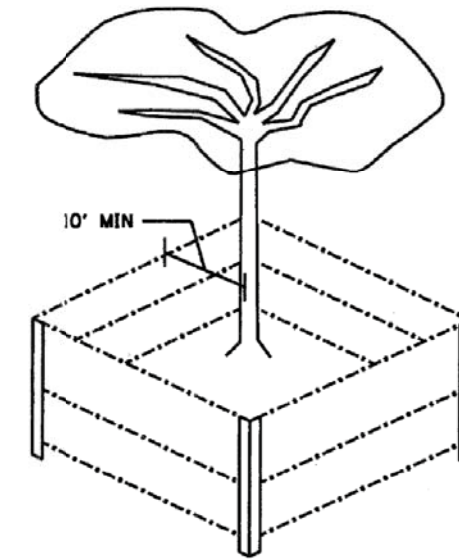


EROSION CONTROL NOTES:

1. ALL WORK SHALL BE DONE IN ACCORDANCE WITH THE MCHENRY COUNTY AND CITY OF MCHENRY STORMWATER ORDINANCES. ALL CONSTRUCTION ACTIVITIES WILL BE IN ACCORDANCE WITH THE NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM STORM WATER PERMIT ILR40.
2. EROSION CONTROL SHALL BE PROVIDED IN ACCORDANCE WITH THE SEQUENCE OF STAGE CONSTRUCTION. THE CONTRACTOR SHALL SUBMIT A DETAILED SCHEDULE FOR APPROVAL.
3. SEDIMENT AND EROSION CONTROL DEVICES SHALL BE FUNCTIONAL BEFORE THE PROJECT SITE IS OTHERWISE DISTURBED.
4. ALL DISTURBED AREAS SHALL BE SEEDED OR SODDED AS SOON AS PRACTICAL AFTER CONSTRUCTION ACTIVITIES IN THAT AREA HAVE CONCLUDED. THE SURFACE OF STRIPPED AREAS SHALL BE PERMANENTLY OR TEMPORARILY PROTECTED FROM SOIL EROSION WITHIN 14 DAYS AFTER FINAL GRADE IS REACHED. STRIPPED AREAS THAT WILL REMAIN UNDISTURBED FOR MORE THAN 15 DAYS AFTER INITIAL DISTURBANCE SHALL BE PROTECTED FROM EROSION. TEMPORARY SEDIMENT AND EROSION CONTROL MEASURES SHALL BE MAINTAINED CONTINUOUSLY UNTIL PERMANENT COVER IS ESTABLISHED.
5. IF A TOPSOIL STOCKPILE IS TO REMAIN IN PLACE FOR MORE THAN 3 DAYS, EROSION CONTROL MEASURES WILL BE PROVIDED. SOIL STOCKPILES MUST NOT BE LOCATED WITHIN ANY SPECIAL MANAGEMENT AREAS. SPECIAL MANAGEMENT AREAS INCLUDE JURISDICTIONAL WETLANDS AND ADJACENT OFF-SITE WETLANDS.
6. THE CONTRACTOR SHALL TAKE ALL PRECAUTIONS TO PROTECT WETLANDS TO REMAIN FROM DAMAGE BY SEDIMENT, CONSTRUCTION EQUIPMENT OR BY HIS WORK CREWS. THE CONTRACTOR SHALL ASSURE THAT DEBRIS OR ANY CONSTRUCTION MATERIAL IS NOT DISPOSED OF IN WETLANDS.
7. WATER PUMPED OR OTHERWISE DISCHARGED FROM THE SITE DURING CONSTRUCTION DEWATERING SHALL BE FILTERED.
8. WHEN TEMPORARY DRAINAGE IS ESTABLISHED, EROSION CONTROL MEASURES MAY BE REQUIRED BY THE ENGINEER.
9. GRAVEL ROADS, ACCESS DRIVES, PARKING AREAS OF SUFFICIENT WIDTH AND LENGTH, AND VEHICLE WASH DOWN FACILITIES IF NECESSARY, SHALL BE PROVIDED TO PREVENT SOIL FROM BEING TRACKED ONTO PUBLIC OR PRIVATE ROADWAYS. ANY SOIL REACHING A PUBLIC OR PRIVATE ROADWAY SHALL BE REMOVED BEFORE THE END OF EACH WORKDAY AND AS NEEDED.
10. CLEANING OF VEHICLES AND EQUIPMENT, INCLUDING CONCRETE MIXERS, SHALL BE PERFORMED IN A MANNER TO REDUCE THE AMOUNT OF POLLUTANTS TRIBUTARY TO STORM SEWERS AND OPEN WATERS TO THE MAXIMUM EXTENT PRACTICAL.
11. ALL NECESSARY MEASURES SHALL BE TAKEN TO CONTAIN ANY FUEL OR POLLUTION RUNOFF. LEAKING EQUIPMENT OR SUPPLIES SHALL BE IMMEDIATELY REPAIRED OR REMOVED FROM THE SITE.
12. SEDIMENT COLLECTED DURING CONSTRUCTION BY THE VARIOUS TEMPORARY EROSION CONTROL SYSTEMS SHALL BE DISPOSED OF ON THE SITE ON A REGULAR BASIS. SEDIMENT SHALL BE REMOVED FROM EROSION CONTROL SYSTEMS WHEN THE HEIGHT OF THE SEDIMENT EXCEEDS ONE-HALF OF THE HEIGHT OF THE FILTER DEVICE.
13. THE ENGINEER SHALL INSPECT EROSION CONTROL MEASURES PERIODICALLY AND WITHIN 24 HOURS OF ANY STORM EXCEEDING 59/64 INCH PRECIPITATION. DAMAGED AND INEFFECTIVE EROSION CONTROL MEASURES SHALL BE REPAIRED OR REPLACED WITHIN 72 HOURS. EROSION CONTROL SYSTEMS REPLACED DUE TO SEDIMENT LOADING WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.
14. ALL SEDIMENT AND EROSION CONTROL MEASURES WILL BE PAID FOR IN ACCORDANCE WITH SECTION 280 OF THE STANDARD SPECIFICATIONS, EXCEPT WHERE OTHERWISE NOTED IN THE CONTRACT SPECIAL PROVISIONS.
15. THE COST OF REPAIRING OR REMOVING SEDIMENT FROM EROSION CONTROL SYSTEMS SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE APPLICABLE EROSION CONTROL ITEM.
16. ALL EROSION CONTROL MEASURES SHALL BE KEPT OPERATIONAL AND MAINTAINED CONTINUOUSLY THROUGHOUT THE PERIOD OF LAND DISTURBANCE UNTIL PERMANENT SEDIMENT AND EROSION CONTROL MEASURES ARE OPERATIONAL.
17. TREES TO BE PROTECTED DURING CONSTRUCTION SHOULD BE IDENTIFIED BY THE ENGINEER AND BE IN ACCORDANCE TO THE DETAILS PROVIDED IN THE PLANS, AND SHALL BE PAID FOR AS TEMPORARY FENCE.

MCHENRY COUNTY STORMWATER PERMIT REQUIREMENTS:

1. SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. AREAS OF THE DEVELOPMENT SITE THAT ARE NOT TO BE GRADED SHALL BE PROTECTED FROM CONSTRUCTION TRAFFIC OR OTHER DISTURBANCE UNTIL FINAL SEEDING IS PREFORMED.
2. PROPERTIES AND CHANNELS ADJOINING THE DEVELOPMENT SITE SHALL BE PROTECTED FROM EROSION AND SEDIMENTATION.
3. SOIL EROSION AND SEDIMENT CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
4. DISTURBED AREAS SHALL BE STABILIZED WITH TEMPORARY OR PERMANENT MEASURES WITHIN SEVEN (7) CALENDAR DAYS FOLLOWING THE END OF ACTIVE HYDROLOGIC DISTURBANCE.
5. ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
6. IF DEWATERING SERVICES ARE USED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH AN EFFECTIVE SEDIMENT CONTROL MEASURE (E.G., SEDIMENT TRAP, SEDIMENT BASIN, OR OTHER APPROPRIATE MEASURES).
7. ALL TEMPORARY SOIL EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN THIRTY (30) DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED. TRAPPED SEDIMENT AND OTHER DISTURBED SOIL AREAS SHALL BE PERMANENTLY STABILIZED.
8. A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OR OTHER APPROPRIATE MEASURES) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION-SITE OF A MAJOR DEVELOPMENT TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET ALLEY, OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT OF WAY, STREET, ALLEY OR PARKING AREA SHALL BE SCRAPED OR STREET CLEANED AS ACCUMULATIONS WARRANT AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
9. SOIL STOCKPILES SHALL NOT BE LOCATED IN A FLOOD-PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF MCHENRY COUNTY.
10. THE CONTRACTOR SHALL PROVIDE ADEQUATE RECEPTACLES FOR THE DESPOSITION OF ALL CONSTRUCTION MATERIAL DEBRIS GENERATED DURING THE DEVELOPMENT PROCESS. THE CONTRACTOR SHALL NOT CAUSE OR PERMIT THE DUMPING, DEPOSITING, DROPPING, THROWING, DISCARDING OR LEAVING OF CONSTRUCTION MATERIAL DEBRIS UPON OR INTO ANY DEVELOPMENT SITE, CHANNEL, WATERS OF THE U.S. OR ISOLATED WATERS OF MCHENRY COUNTY. THE CONTRACTOR SHALL MAINTAIN THE DEVELOPMENT SITE FREE OF CONSTRUCTION MATERIAL DEBRIS.
11. ALL TEMPORARY AND PERMANENT EROSION AND SEDIMENT CONTROL MEASURES SHALL BE MAINTAINED IN AN EFFECTIVE WORKING CONDITION.
12. DRAIN TILE SYSTEMS DISTURBED DURING DEVELOPMENT MUST BE RECONNECTED BY THOSE RESPONSIBLE FOR THEIR DISTURBANCE UNLESS THE APPROVED ENGINEERING PLANS INDICATE HOW THE DRAIN TILE SYSTEM IS TO BE CONNECTED TO THE PROPOSED STORMWATER MANAGEMENT SYSTEM. ALL ABANDONED DRAIN TILES SHALL BE REMOVED IN THEIR ENTIRETY.



TREE PROTECTION  
(PAID FOR AS TEMPORARY FENCE)

COMPANY NAME: Jeff Pugh  
 PROJECT CONTACT: Mchenry County, Division of Transportation  
 DATE PLOTTED: 8/5/2014 3:38:16 PM  
 FILE NAME: 09071-erodet01.dgn  
 PLOT DRIVER: pdfcut  
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**HRGreen.com**  
 Illinois Professional Design Firm  
 #184-001322

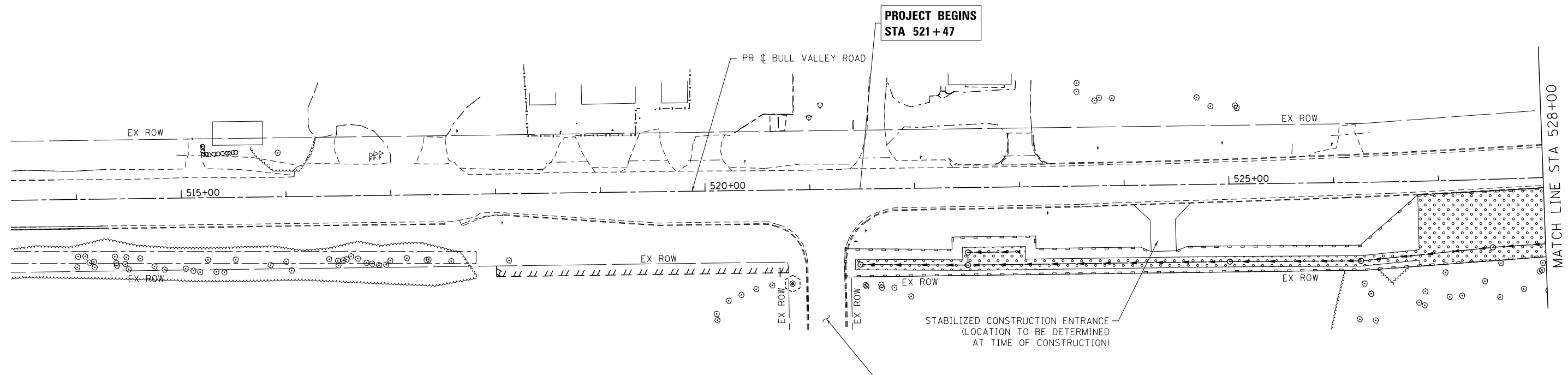
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**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**EROSION CONTROL GENERAL NOTES**

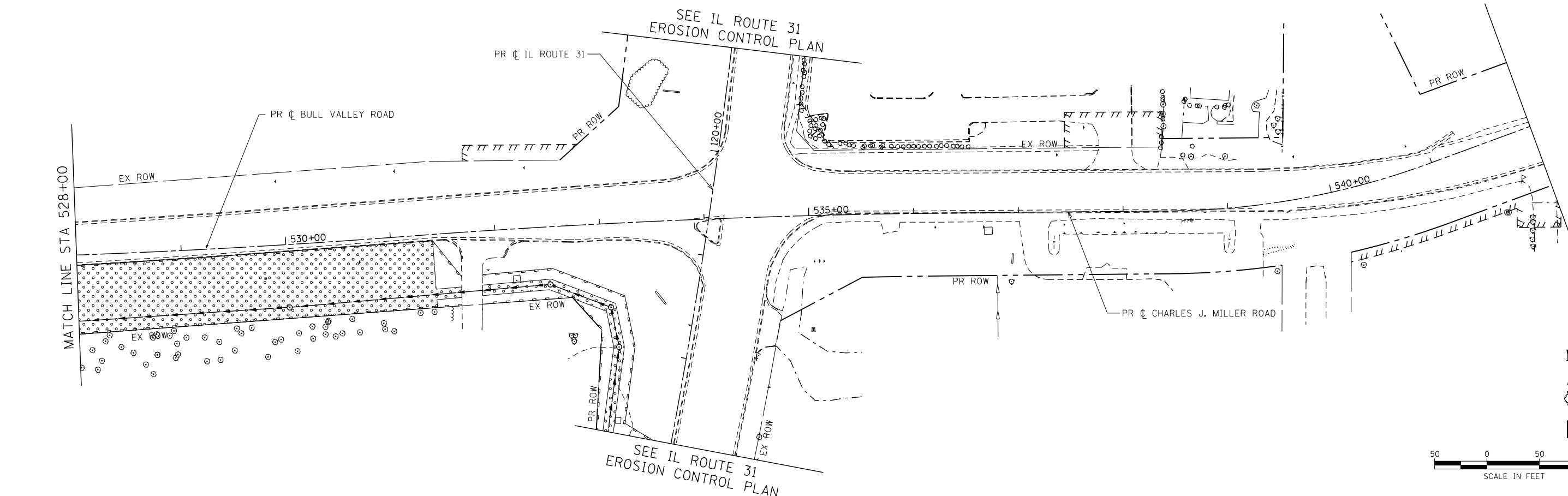
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| F.A.U. RTE.                                   | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|----------------|---------|--------------|-----------|
| 3860  | 09-00372-02-PW | MCHENRY | 51           | 18        |
| CONTRACT NO.                                  |                |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                |         |              |           |



**LEGEND**

- SEEDING, CLASS 2A
- TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER (FT)
- TREE TRUNK PROTECTION (TEMPORARY FENCE, FT)



COMPANY NAME: HRGreen  
 PROJECT CONTACT: Jeff Platts  
 PROJECT: Mchenry County, Division of Transportation  
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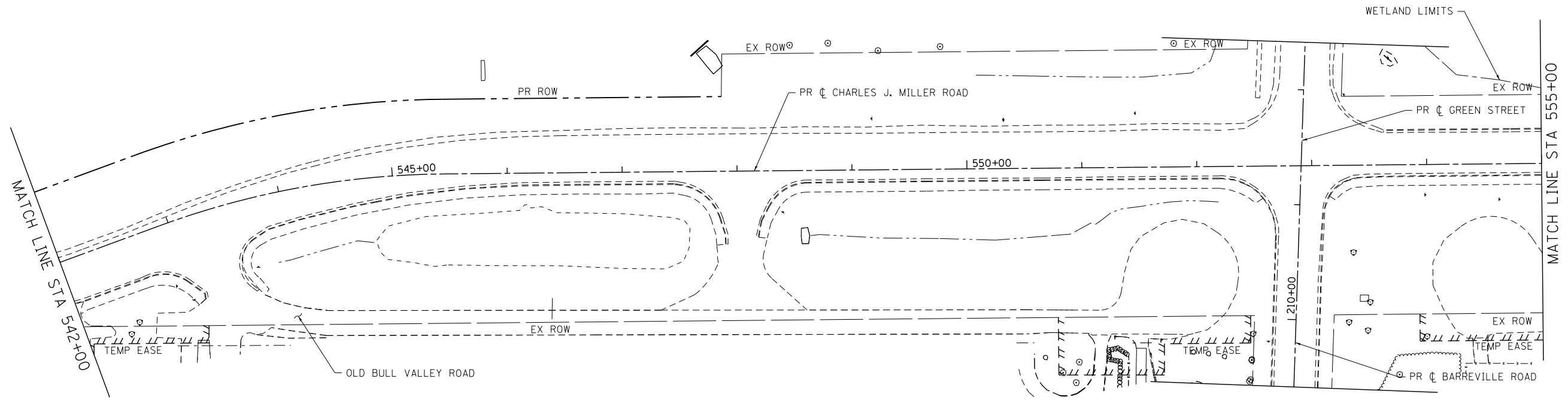
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| PLOT DATE = 8/5/2014          | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**EROSION CONTROL AND RESTORATION PLAN  
BULL VALLEY /CHARLES J. MILLER ROAD IMPROVEMENTS**

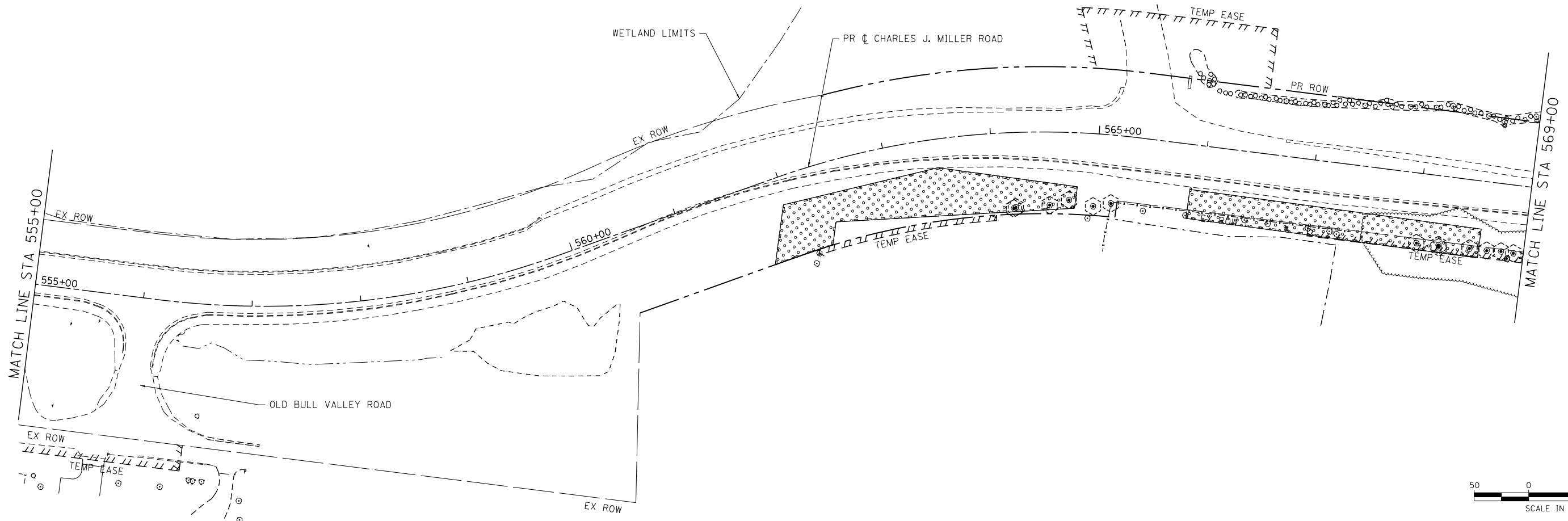
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|                     |                |         |                           |           |
|---------------------|----------------|---------|---------------------------|-----------|
| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
| 3860                | 09-00372-02-PW | MCHENRY | 51                        | 19        |
| FED. ROAD DIST. NO. |                |         | ILLINOIS FED. AID PROJECT |           |



**LEGEND**

- SEEDING, CLASS 2A
- TEMPORARY EROSION CONTROL SEEDING
- EROSION CONTROL BLANKET
- PERIMETER EROSION BARRIER (FT)
- TREE TRUNK PROTECTION (TEMPORARY FENCE, FT)



COMPANY NAME: HRGreen  
 PROJECT CONTACT: Jeff Plisk  
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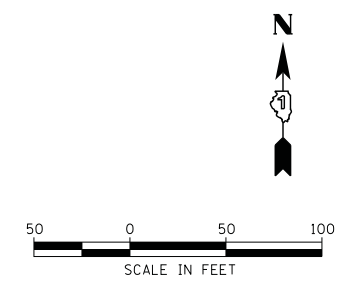
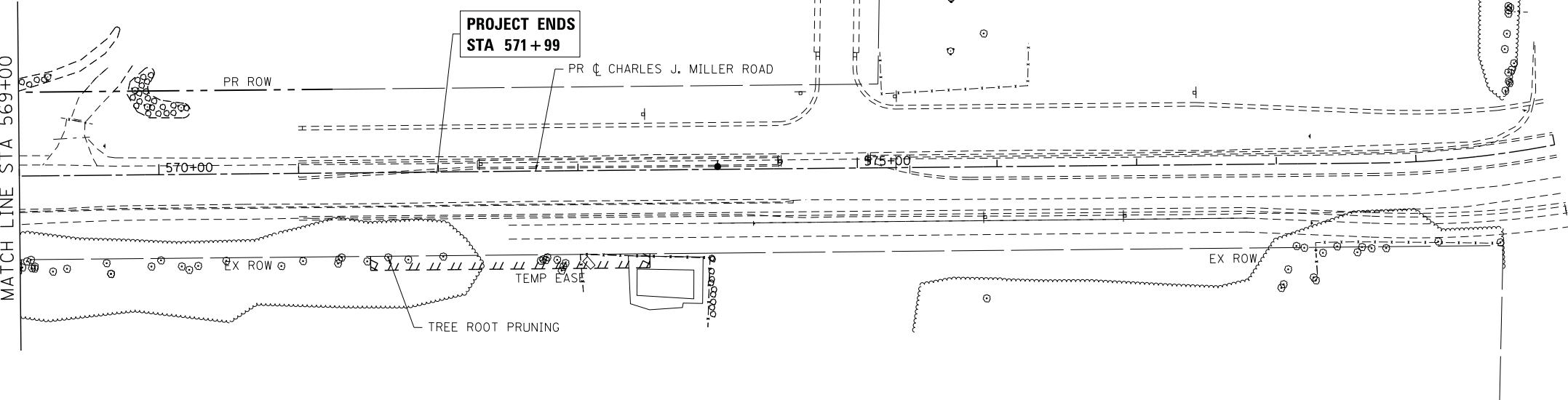
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| PLOT DATE = 8/5/2014          | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
 DIVISION OF TRANSPORTATION**

**EROSION CONTROL AND RESTORATION PLAN  
 CHARLES J. MILLER ROAD IMPROVEMENTS**

SCALE: 1"=50' SHEET NO. 2 OF 4 SHEETS STA. 99+25 TO STA. 126+00

| F.A.U. RTE.                                   | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|----------------|---------|--------------|-----------|
| 3860  | 09-00372-02-PW | MCHENRY | 51           | 20        |
| CONTRACT NO.                                  |                |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                |         |              |           |



| LEGEND |   |
|--------|---|
|        | SEEDING, CLASS 2A                           |
|        | TEMPORARY EROSION CONTROL SEEDING           |
|        | EROSION CONTROL BLANKET                     |
|        | PERIMETER EROSION BARRIER (FT)              |
|        | TREE TRUNK PROTECTION (TEMPORARY FENCE, FT) |

COMPANY NAME: Jeff Pugh  
 PROJECT CONTACT: Jeff Pugh  
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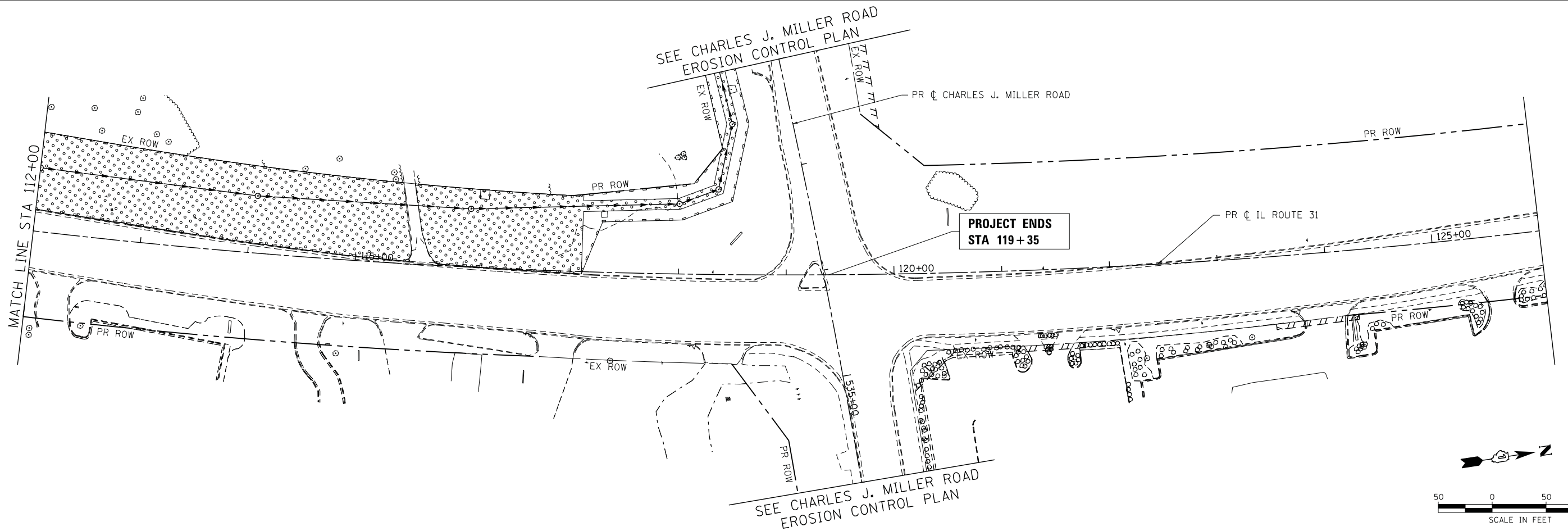
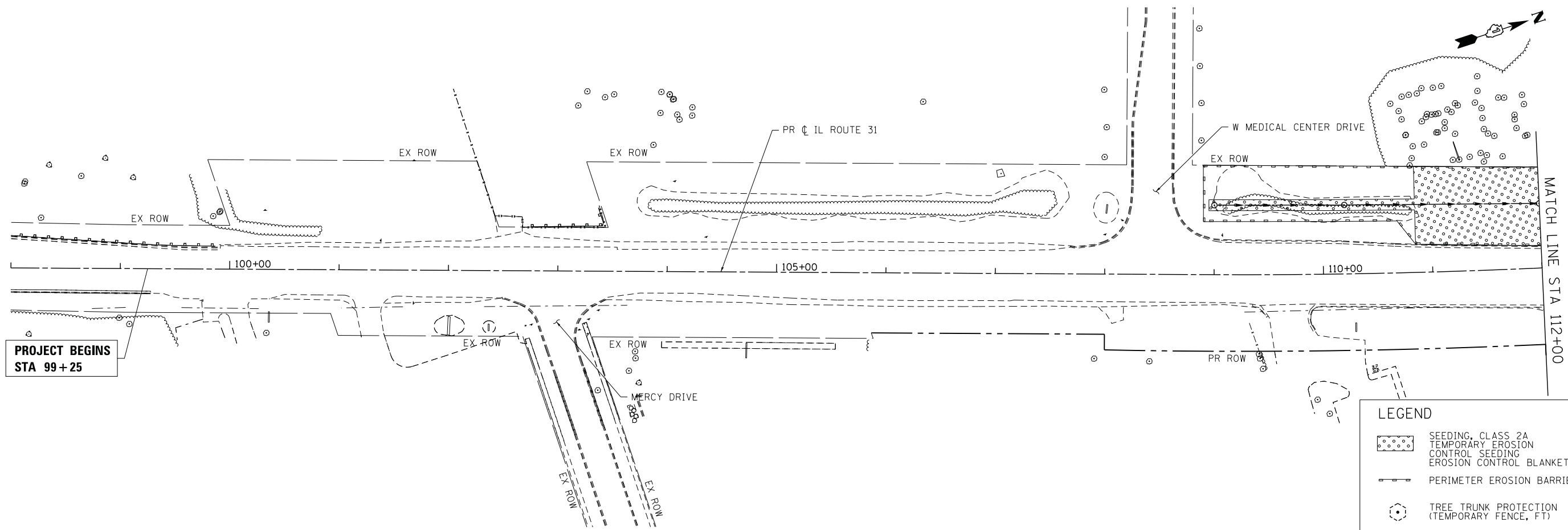
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| PLOT DATE = 8/5/2014          | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
 DIVISION OF TRANSPORTATION**

**EROSION CONTROL AND RESTORATION PLAN  
 CHARLES J. MILLER ROAD IMPROVEMENTS**

SCALE: 1"=50'    SHEET NO. 3 OF 4 SHEETS    STA. 519+75 TO STA. 542+00

| F.A.U. RTE.                                      | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|--|----------------|---------|--------------|-----------|
| 3860   | 09-00372-02-PW | MCHENRY | 51           | 21        |
| CONTRACT NO.                                     |                |         |              |           |
| FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT |                |         |              |           |



COMPANY NAME: HRGreen  
 PROJECT CONTACT: Jeff Pugh  
 PROJECT LOCATION: Mchenry County, Division of Transportation  
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 PEN TABLE: standard-trans.tbl



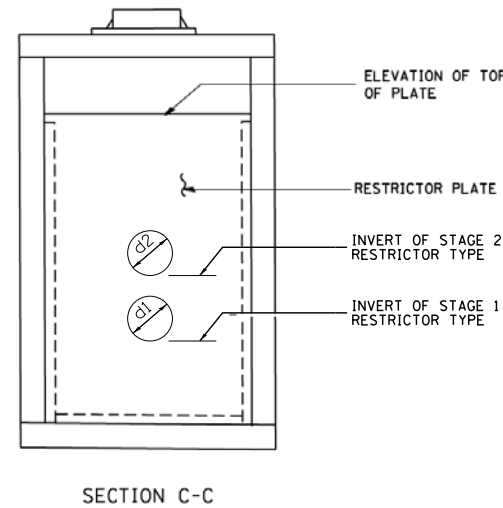
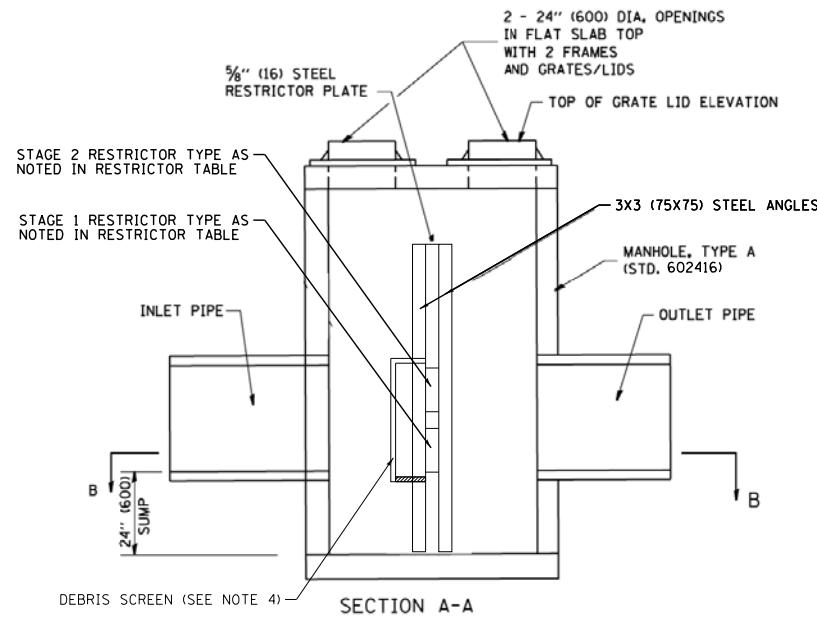
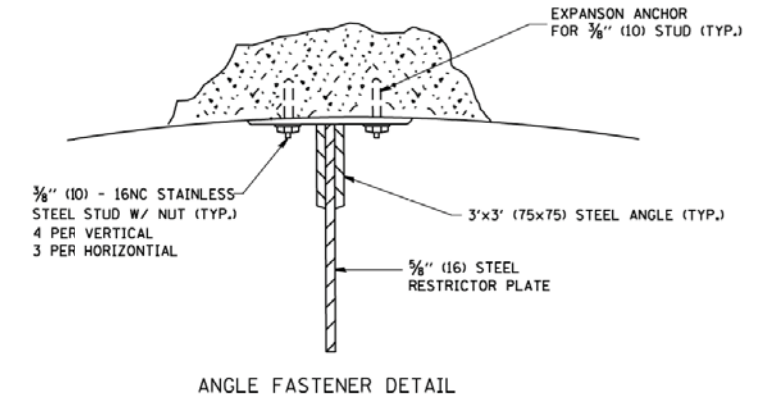
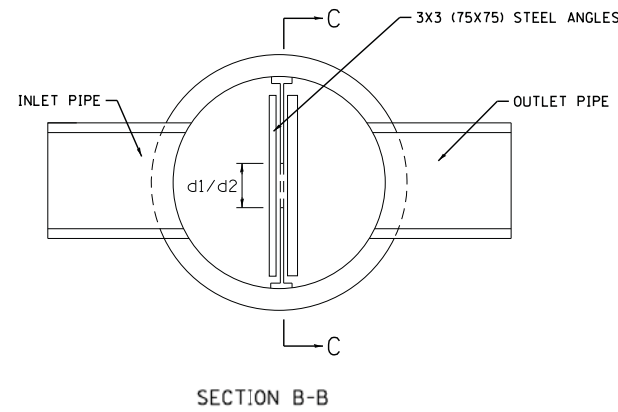
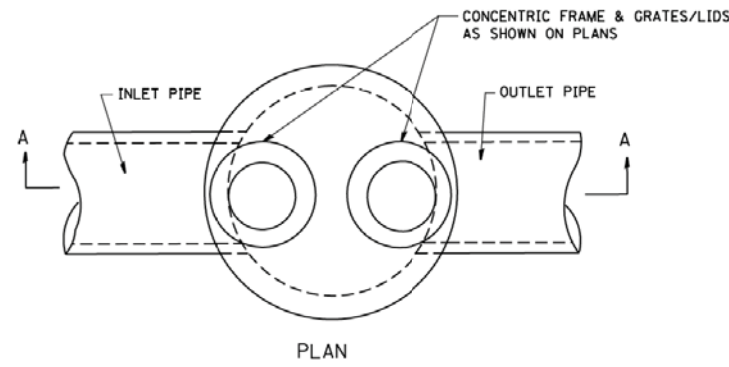
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| PLOT DATE = 8/5/2014          | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**EROSION CONTROL AND RESTORATION PLAN  
ILLINOIS ROUTE 31 IMPROVEMENTS**

SCALE: 1"=50' SHEET NO. 4 OF 4 SHEETS STA. 99+25 TO STA. 126+00

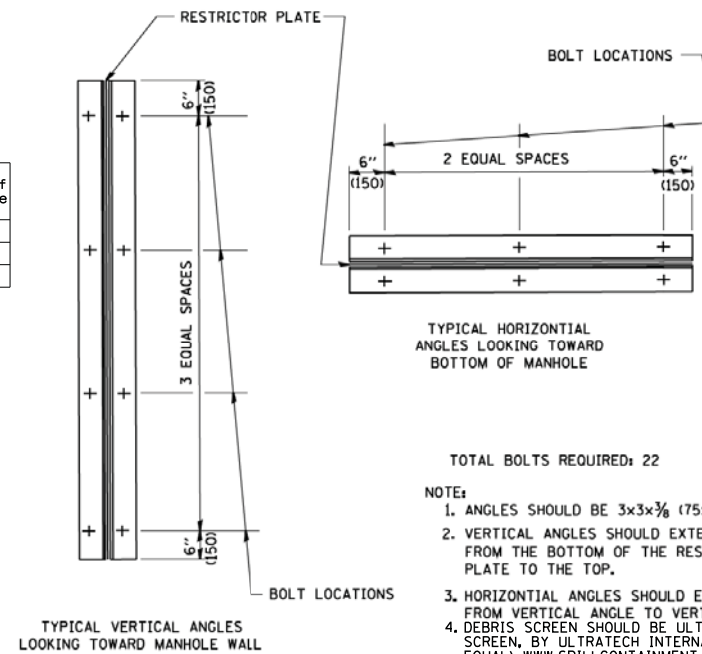
| F.A.U. RTE.                                   | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|----------------|---------|--------------|-----------|
| 3860  | 09-00372-02-PW | MCHENRY | 51           | 22        |
| CONTRACT NO.                                  |                |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                |         |              |           |



- NOTES:
1. ALL STEEL ANGLES AND PLATES TO BE GALVANIZED AFTER FABRICATION.
  2. ALL RESTRICTOR PLATES, ANGLES AND HARDWARE TO BE INCLUDED IN THE COST OF THE MANHOLE.
  3. BASIS OF PAYMENT: "MANHOLES, TYPE A, 6 FT. (1.8 m)-DIAMETER, TYPE 1 FRAME, CLOSED LID, RESTRICTOR PLATE" EACH

| Route (ST*)                 | Station      | Manhole Diameter (Feet) | Frame and Grate | Restrictor Type | Inside Restrictor Diameter - Stage 1 | Invert of Restrictor Diameter - Stage 1 | Inside Restrictor Diameter - Stage 2 | Invert of Restrictor Diameter - Stage 2 | Elevation of Top of Plate |
|-----------------------------|--------------|-------------------------|-----------------|-----------------|--------------------------------------|---|--------------------------------------|---|---------------------------|
| Charles J. Miller Road (26) | 521+47.50 RT | 8                       | T1F CL          | 3               | 5                                    | 792.98                                  | 6                                    | 796.49                                  | 797.15                    |
| Charles J. Miller Road (41) | 530+00 RT    | 8                       | T1F CL          | 3               | 4                                    | 814.34                                  | 4                                    | 817.41                                  | 820.50                    |
| Charles J. Miller Road (53) | 533+07 RT    | 8                       | T1F CL          | 3               | 6                                    | 823.05                                  | 6                                    | 826.50                                  | 828.05                    |

\* Where a 2-Stage Restrictor is shown in the table, the contractor shall order a Type 3 restrictor for Stage 2 at elevation and of size as noted to be installed in the steel restrictor plate.



- TOTAL BOLTS REQUIRED: 22
- NOTE:
1. ANGLES SHOULD BE 3x3x3/8 (75x75x75)
  2. VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
  3. HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.
  4. DEBRIS SCREEN SHOULD BE ULTRA-DEBRIS SCREEN, BY ULTRATECH INTERNATIONAL (PART #9366 OR EQUAL) WWW.SPILLCONTAINMENT.COM/DEBRIS-SCREEN
  5. ONE DEBRIS SCREEN SHOULD BE USED FOR EACH RESTRICTOR ORIFICE, AND SHOULD BE INSTALLED ACCORDING TO MANUFACTURER'S SPECIFICATIONS

| RESTRICTOR TYPE       |             |                     |                    |                    |         |
|-----------------------|-------------|---------------------|--------------------|--------------------|---------|
| 1                     | 2           | 3                   | 4                  | 5                  | 6       |
| RE-ENTRANT TUBE       | SHARP EDGED | SQUARE EDGED        | RE-ENTRANT TUBE    | SQUARE EDGED       | ROUNDED |
|                       |             |                     |                    |                    |         |
| LENGTH: 1/2 TO 1 DIA. |             | STREAM CLEARS SIDES | LENGTH: 2-1/2 DIA. | LENGTH: 2-1/2 DIA. |         |
| C=.52                 | C=.61       | C=.61               | C=.73              | C=.82              | C=.98   |

VALUES OF "C" FOR CIRCULAR AND SQUARE ORIFICES

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

COMPANY NAME: HRGreen  
 PROJECT CONTACT: Jeff Pligh  
 ADDRESS: McHenry County, Division of Transportation  
 DATE PLOTTED: 8/5/2014 3:40:03 PM  
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MCHENRY COUNTY  
 DIVISION OF TRANSPORTATION

MCHENRY COUNTY DETAIL  
 MANHOLE WITH RESTRICTOR DETAIL

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. N/A TO STA. N/A

| F.A.U. RTE.                                   | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|----------------|---------|--------------|-----------|
| 3860  | 09-00372-02-PW | MCHENRY | 51           | 23        |
| CONTRACT NO.                                  |                |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                |         |              |           |

**GENERAL NOTES**

ALTERNATE MATERIAL FOR THE WALLS MAY BE CONCRETE MASONRY UNITS, PRECAST REINFORCED CONCRETE SECTIONS OR CAST-IN-PLACE CONCRETE. THE CAST IRON STEPS AS DETAILED HEREON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOWN MAY BE USED WHEN APPROVED BY THE ENGINEER.

CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 1006.14 OF THE STANDARD SPECIFICATIONS.

STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF THREE (3) INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

STEPS SHALL BE OMITTED FOR WORK IN COOK COUNTY WHEN THE DEPTH OF THE MANHOLE IS TEN (10') OR LESS.

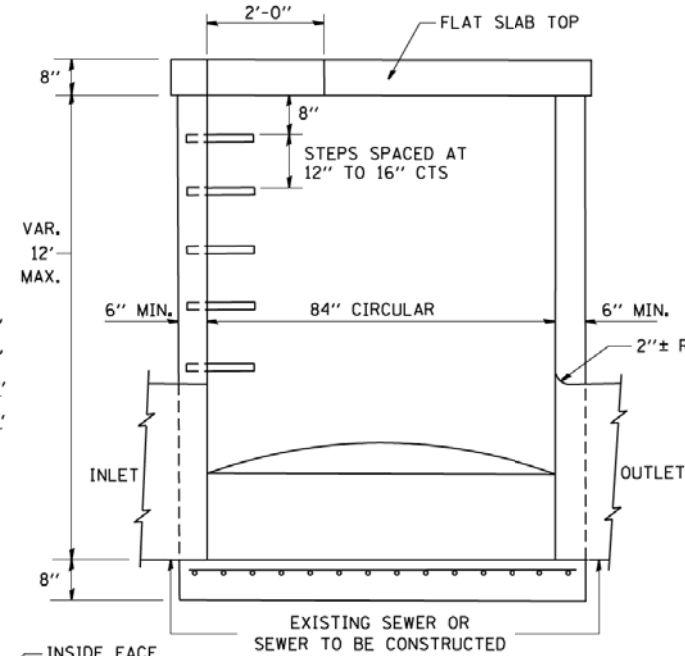
IN ADDITION TO THE REQUIREMENTS OF ARTICLE 612.13 OF THE STANDARD SPECIFICATIONS, THE CONTRACT UNIT PRICE FOR MANHOLES, TYPE A, 7'-DIAMETER SHALL INCLUDE THE SAND CUSHION WHEN REQUIRED, FURNISHING AND INSTALLING STEPS WHEN REQUIRED, FURNISHING AND COMPACTING THE SPECIFIED BACKFILL MATERIAL, AND FURNISHING AND INSTALLING FLAT SLAB TOP.

PRECAST FLAT SLAB TOP SHALL CONFORM TO ARTICLES 505.01 THRU 505.05 OF THE STANDARD SPECIFICATIONS EXCEPT THAT THE CONCRETE STRENGTH SHALL BE 4,000 PSI AFTER 28 DAYS. REINFORCEMENT BARS AND WELDED WIRE FABRIC SHALL CONFORM TO THE REQUIREMENTS OF ARTICLE 1006.10. ONLY GRADE 60 REINFORCEMENT BARS WILL BE PERMITTED.

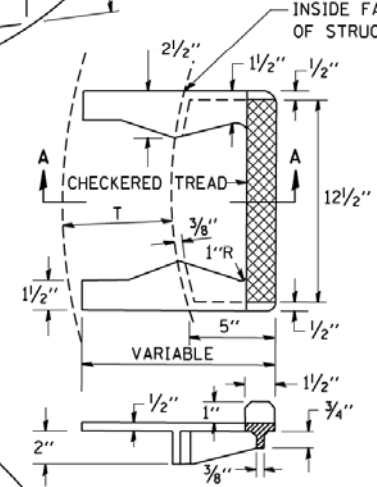
BOTTOM SLAB SHALL BE REINFORCED BY EITHER REINFORCEMENT BARS OR WELDED WIRE FABRIC. THE MINIMUM REINFORCEMENT SHALL BE 0.46 SQUARE INCH PER LINEAR FOOT IN BOTH DIRECTIONS.

JOINT CONFIGURATION AND DIMENSIONS OF FLAT SLAB TOP SHALL MATCH AND FIT THE RISER JOINT DETAIL.

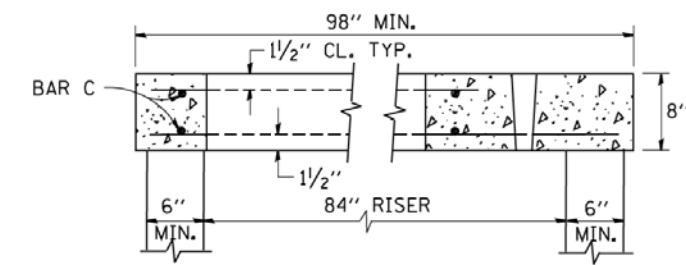
LIFTING DEVICES SHALL BE APPROVED BY THE ENGINEER.



**ELEVATION**

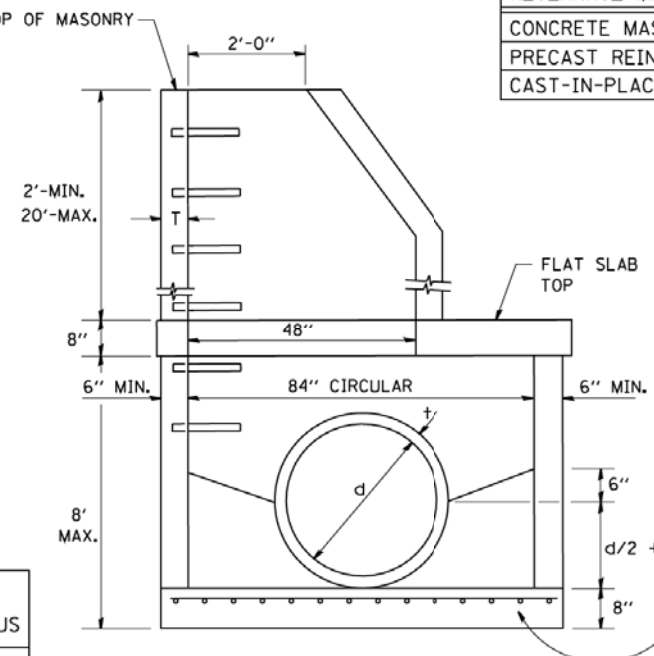


**SEC. A-A  
CAST IRON STEPS**

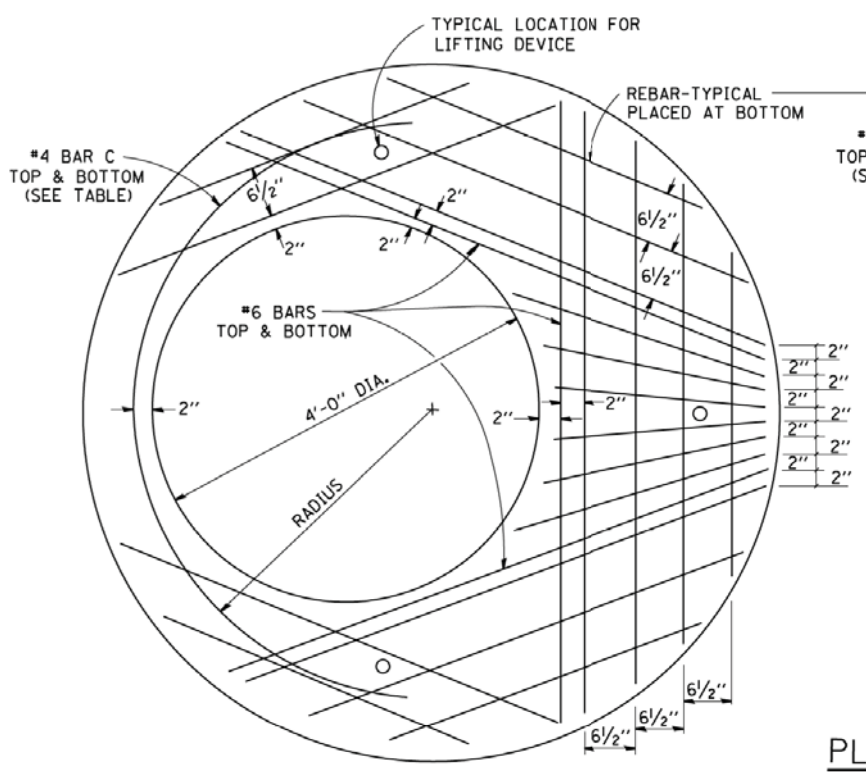
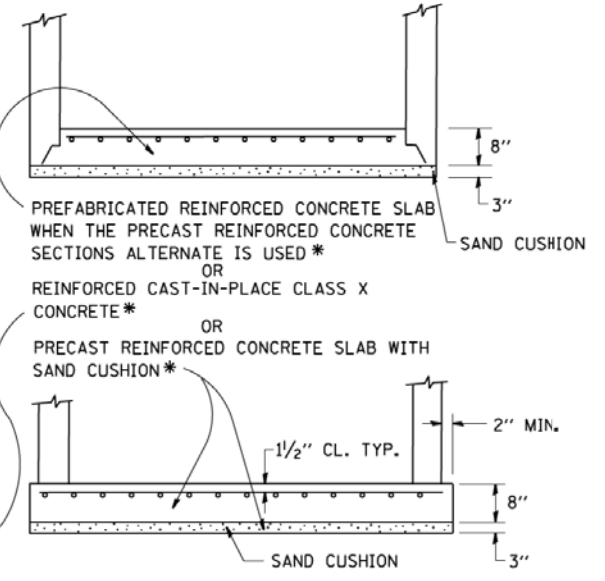


**SECTION B-B**

| ALTERNATE MATERIALS FOR RISERS       | T (MIN.) |
|--------------------------------------|----------|
| CONCRETE MASONRY UNITS               | 5"       |
| PRECAST REINFORCED CONCRETE SECTIONS | 4"       |
| CAST-IN-PLACE CONCRETE               | 6"       |

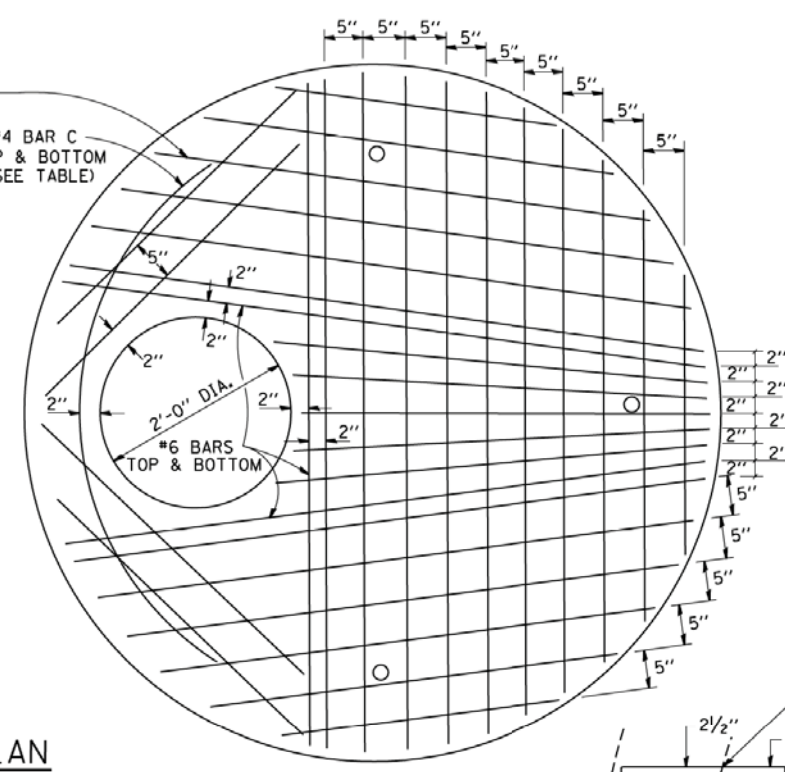


**ELEVATION**

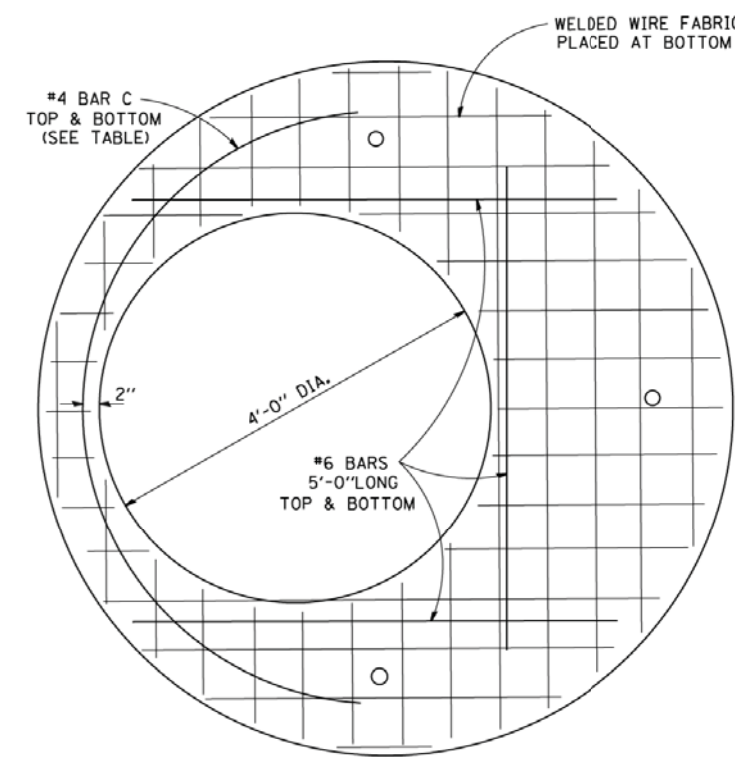


**PLAN**

SHOWING REBAR REINFORCEMENT



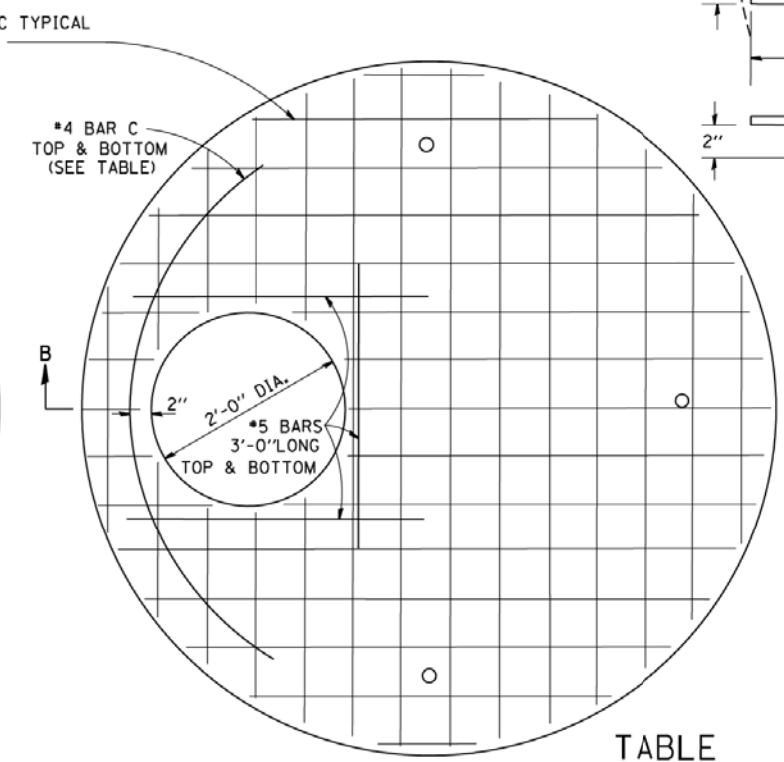
**SEC. A-A**



**PLAN**

SHOWING WELDED WIRE FABRIC REINFORCEMENT

NOTE: THIS STRUCTURE SHOULD BE USED WITH PIPES SIZE 54" DIA. OR SMALLER.



**TABLE**

| DIAMETER OF OPENING | REINFORCEMENT "A" WWF OR EACH DIRECTION | BAR SIZE | BAR C |        |        |
|---------------------|---|----------|-------|--------|--------|
|                     |   |          | SIZE  | LENGTH | RADIUS |
| 2'-0"               | 1.06 SQ.IN./LIN.FT.                     | #6       | #4    | 6'-0"  | 38"    |
| 4'-0"               | 0.82 SQ.IN./LIN.FT.                     | #6       | #4    | 9'-0"  | 38"    |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**MANHOLE TYPE A  
7 FOOT DIAMETER**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| F.A. RTE.                                       | SECTION        | COUNTY              | TOTAL SHEETS | SHEET NO. |
|---|----------------|---------------------|--------------|-----------|
| 3860  | 09-00372-02-PW | MCHENRY             | 51           | 24        |
| <b>BD600-11 (BD-37)</b>                         |                | <b>CONTRACT NO.</b> |              |           |
| FED. ROAD DIST. NO. 1 ILLINOIS/FED. AID PROJECT |                |                     |              |           |

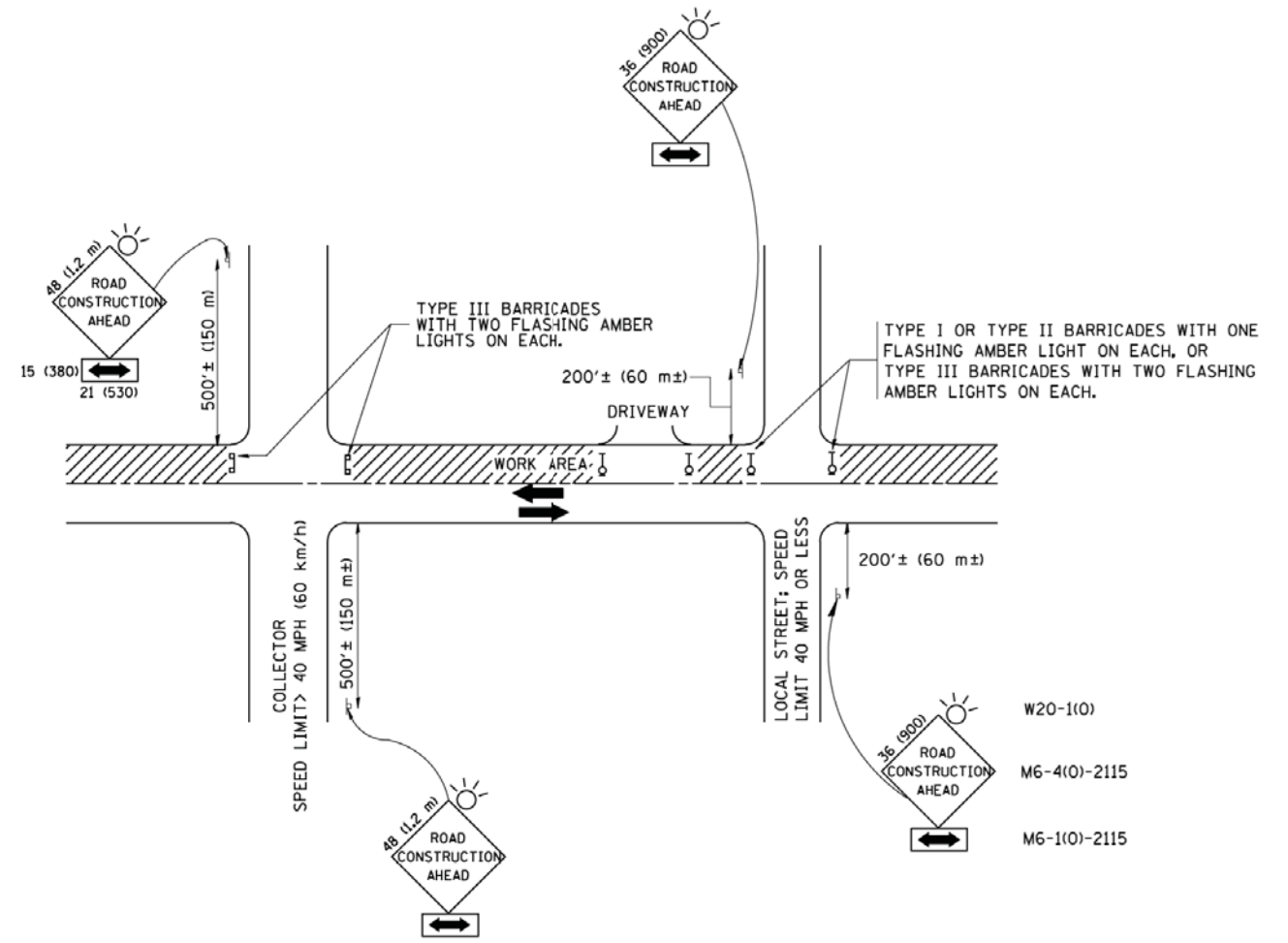
COMPANY NAME: Jeff. Pugh  
 PROJECT CONTACT: Jeff. Pugh, Division of Transportation  
 DATE PLOTTED: 9/5/2014 3:42:36 PM  
 FILE NAME: 090071-det-04.dgn  
 PLOT DRIVER: pafat  
 PEN TABLE: standard-trans.tbl

FILE NAME = W:\diststd\22x34\bd37.dgn  
 USER NAME = gaglianob  
 DESIGNED -  
 DRAWN -  
 PLOT SCALE = 50.0000 / IN.  
 CHECKED -  
 PLOT DATE = 1/4/2008

DESIGNED -  
 DRAWN -  
 CHECKED -  
 DATE - 10-18-02

REVISED -  
 REVISED -  
 REVISED -  
 REVISED -





TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
  1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
  2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
    - a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
    - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
  3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
 

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

All dimensions are in millimeters (Inches) unless otherwise shown.

COMPANY NAME: Jeff Pugh  
 PROJECT CONTACT: Jeff Pugh  
 DATE PLOTTED: 9/5/2014 3:43:13 PM  
 FILE NAME: 090071-det-05.dgn  
 PLOT DRIVER: pafah  
 PEN TABLE: standard-trans.tbl

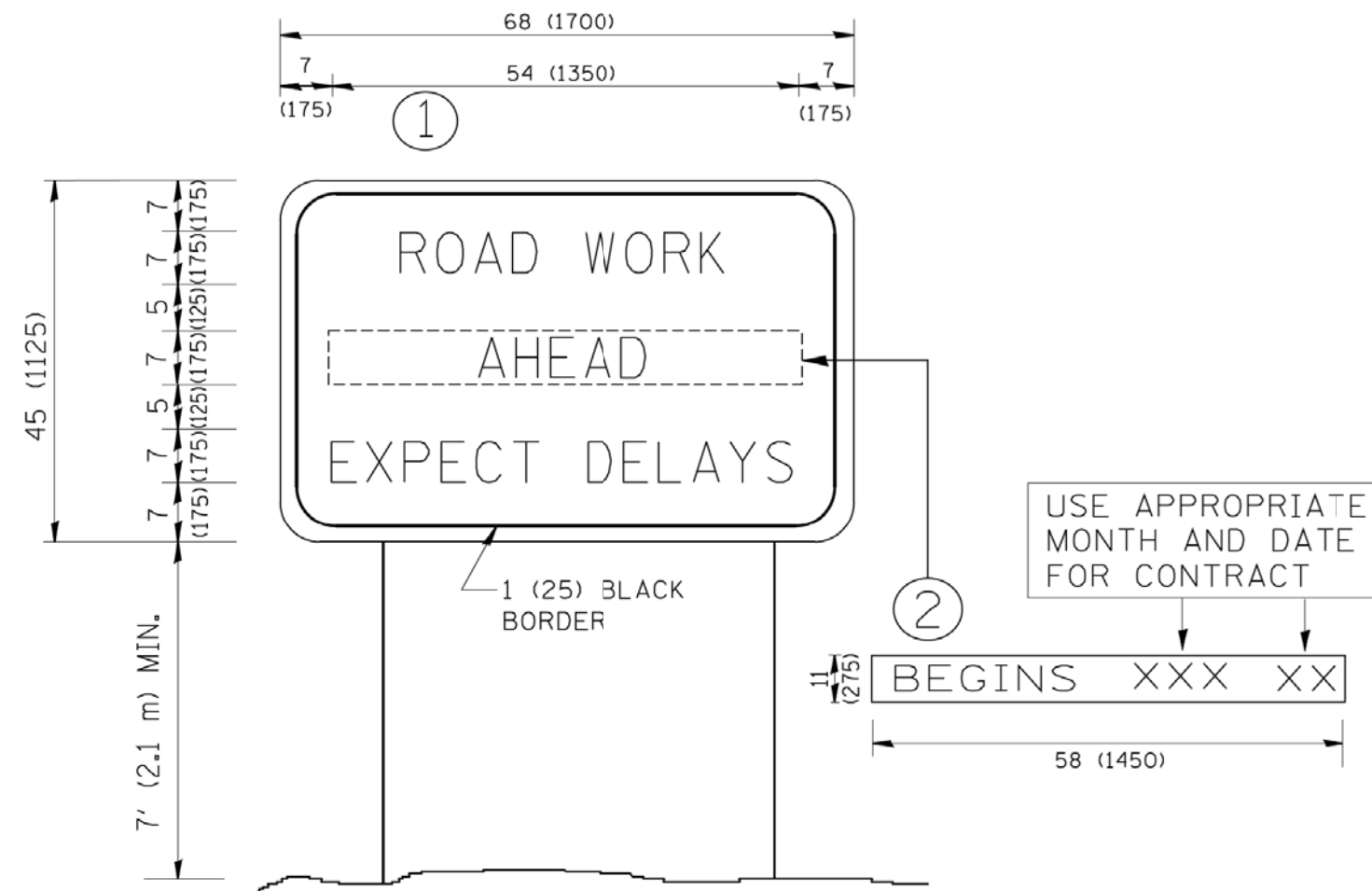
|                           |                              |                |                                 |
|---------------------------|------------------------------|----------------|---------------------------------|
| FILE NAME =               | USER NAME = geglanoht        | DESIGNED - LHA | REVISED - J. OBERLE 10-18-95    |
| W:\distsad\22x34\to18.dgn |                              | DRAWN -        | REVISED - A. HOUSEH 03-06-96    |
|                           | PLOT SCALE = 50.0000 * / IN. | CHECKED -      | REVISED - A. HOUSEH 10-15-96    |
|                           | PLOT DATE = 1/4/2008         | DATE - 06-89   | REVISED - T. RAMMACHER 01-06-00 |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

| TRAFFIC CONTROL AND PROTECTION FOR<br>SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS |                         |      |         |
|--|-------------------------|------|---------|
| SCALE: NONE  | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

| F.A. RTE.                                       | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|----------------|---------|--------------|-----------|
| 3860  | 09-00372-02-PW | MCHENRY | 51           | 25        |
| TC-10   |                |         | CONTRACT NO. |           |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |                |         |              |           |

COMPANY NAME: Jeff Pugh  
 PROJECT CONTACT: Jeff Pugh  
 DATE PLOTTED: 9/5/2014 3:44:31 PM  
 FILE NAME: 090071-det-06.dgn  
 PLOT DRIVER: pafalt  
 PEN TABLE: standard-trans.tbl



**NOTES:**

1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

|                            |                        |            |                                 |
|----------------------------|------------------------|------------|---------------------------------|
| FILE NAME =                | USER NAME = gegljanobt | DESIGNED - | REVISED - R. MIRS 09-15-97      |
| W:\distsstd\22x34\to22.dgn |                        | DRAWN -    | REVISED - R. MIRS 12-11-97      |
|                            |                        | CHECKED -  | REVISED - T. RAMMACHER 02-02-99 |
|                            |                        | DATE -     | REVISED - C. JUCIUS 01-31-07    |
|                            |                        |            |                                 |

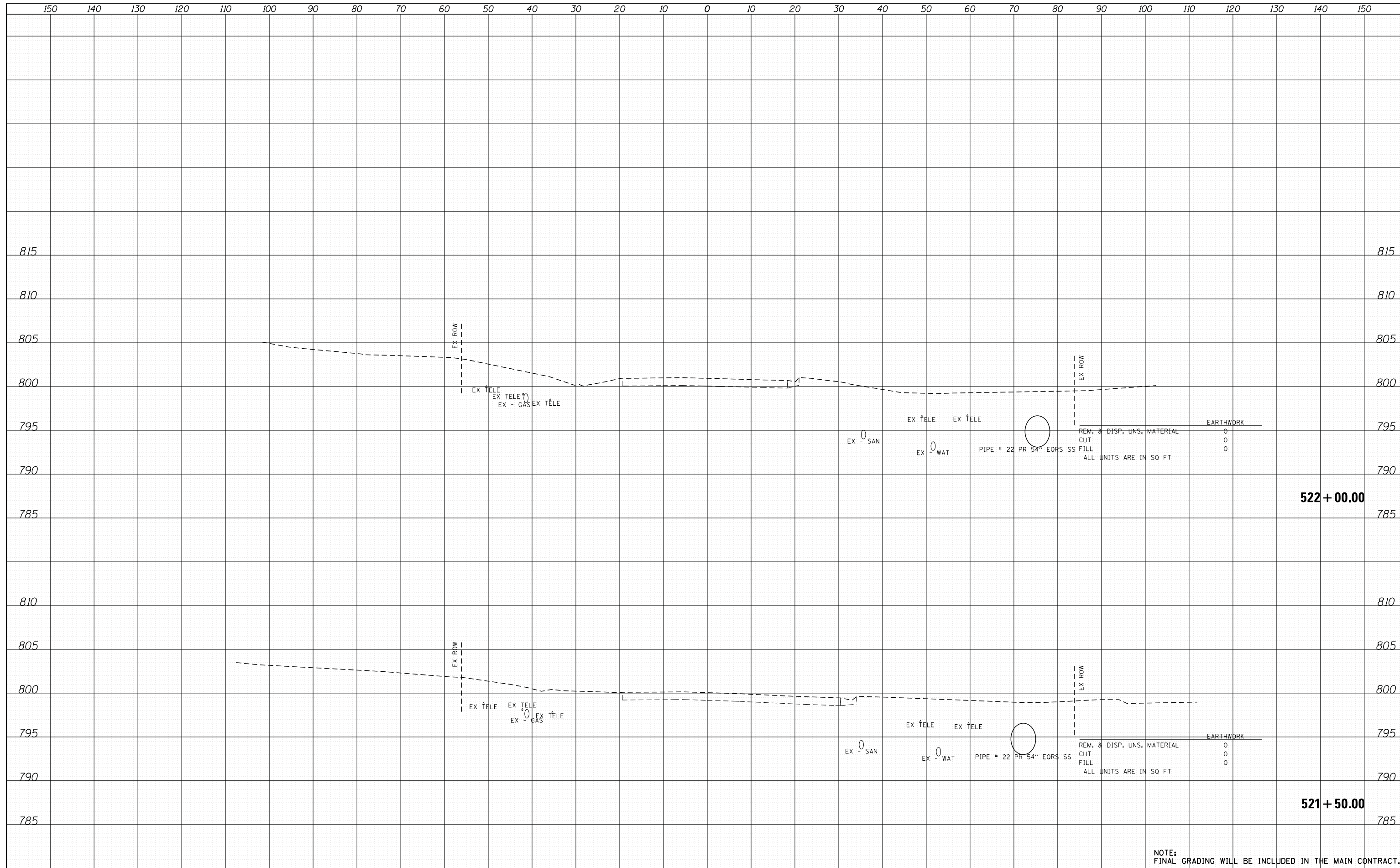
**STATE OF ILLINOIS  
 DEPARTMENT OF TRANSPORTATION**

|  |                         |      |         |
|--|-------------------------|------|---------|
| <b>ARTERIAL ROAD<br/>   INFORMATION SIGN</b> |                         |      |         |
| SCALE: NONE                                  | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

|   |                |         |                     |           |
|---|----------------|---------|---------------------|-----------|
| F.A. RTE.   | SECTION        | COUNTY  | TOTAL SHEETS        | SHEET NO. |
| 3860  | 09-00372-02-PW | MCHENRY | 51                  | 26        |
| <b>TC-22</b>  |                |         | <b>CONTRACT NO.</b> |           |
| FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT |                |         |                     |           |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| FINISHED SURVEY |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS CHECKED   |  |
| NO.             |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| ORIGINAL SURVEY |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS CHECKED   |  |
| NO.             |  |



NOTE:  
FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.



|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tjeilton | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

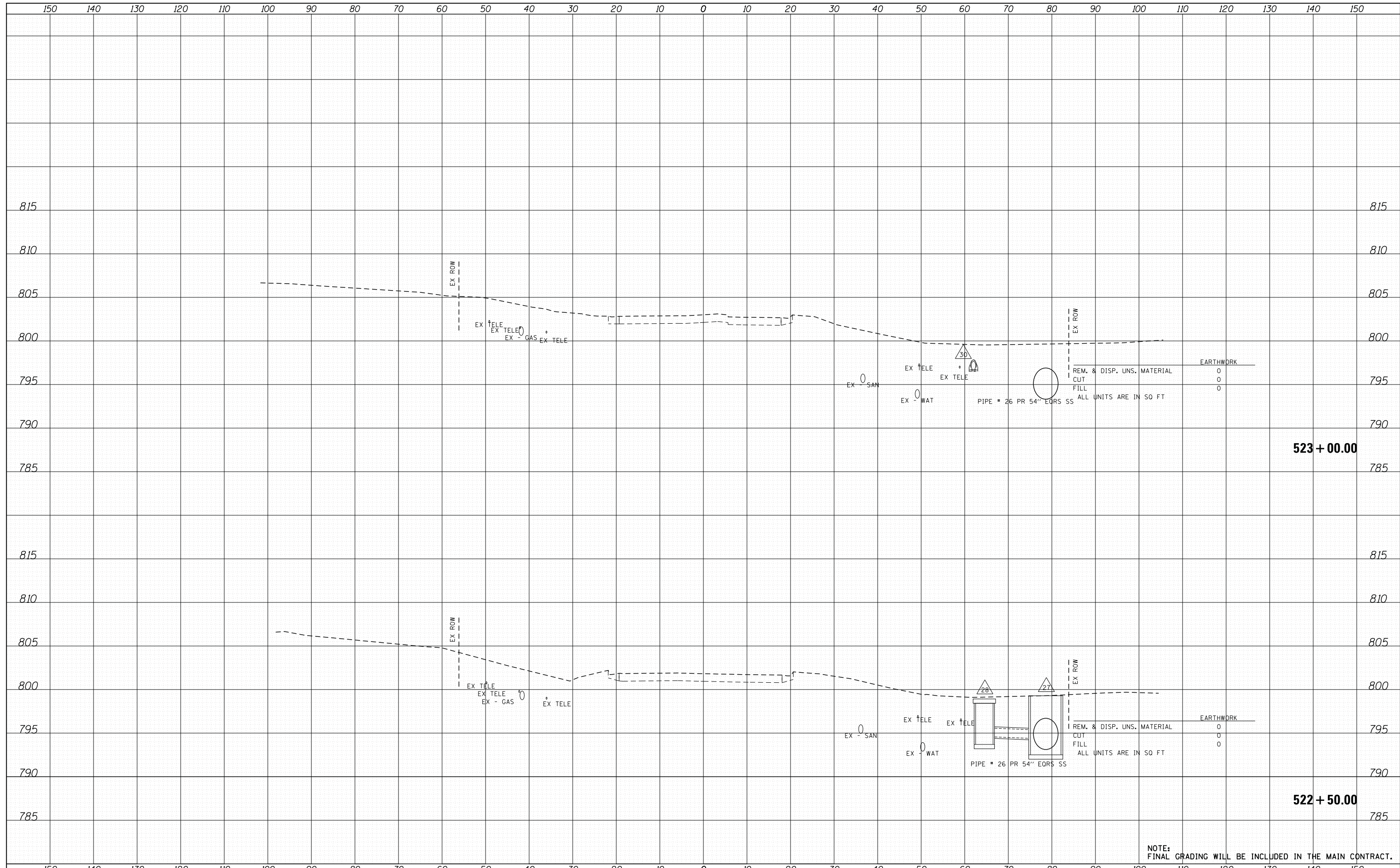
**CROSS SECTIONS  
CHARLES J. MILLER ROAD**

SCALE: 1"=10'    SHEET NO. 1 OF 13 SHEETS    STA. 521+50.00 TO STA. 522+00.00

| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
|---------------------|----------------|---------|---------------------------|-----------|
| 3860                | 09-00372-02-PW | MCHENRY | 51                        | 27        |
| FED. ROAD DIST. NO. |                |         | ILLINOIS FED. AID PROJECT |           |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEYED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS CHECKED |  |
| FINAL SURVEY  |  |
| NOTE BOOK     |  |
| NO.           |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS CHECKED   |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |



NOTE:  
FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.

420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
Phone: 815.365.1778 | Toll Free: 800.728.7600 | Fax: 815.365.1751 | HRGreen.com  
ILLINOIS PROFESSIONAL DESIGN FROM 1818 TO 2012

|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyejton  | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

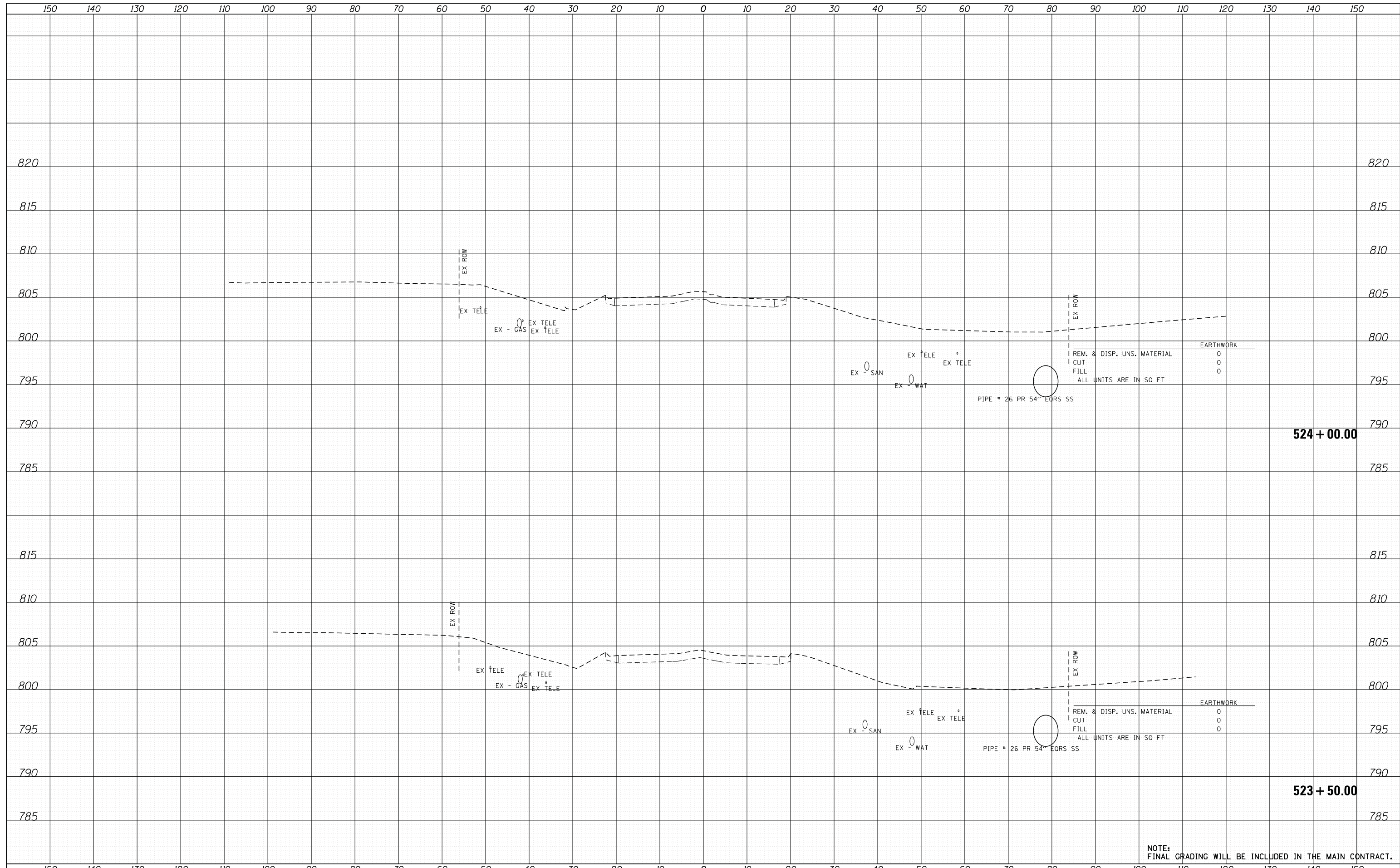
**CROSS SECTIONS  
CHARLES J. MILLER ROAD**

SCALE: 1"=10'      SHEET NO. 2 OF 13 SHEETS      STA. 522+50.00 TO STA. 523+00.00

| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
|---------------------|----------------|---------|---------------------------|-----------|
| 3860                | 09-00372-02-PW | MCHENRY | 51                        | 28        |
| FED. ROAD DIST. NO. |                |         | ILLINOIS FED. AID PROJECT |           |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEYED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS CHECKED |  |
| FINAL SURVEY  |  |
| NOTE BOOK     |  |
| NO.           |  |

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|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS CHECKED   |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |



NOTE:  
FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.



|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyejton  | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS  
CHARLES J. MILLER ROAD**

SCALE: 1"=10'      SHEET NO. 3 OF 13 SHEETS      STA. 523+50.00 TO STA. 524+00.00

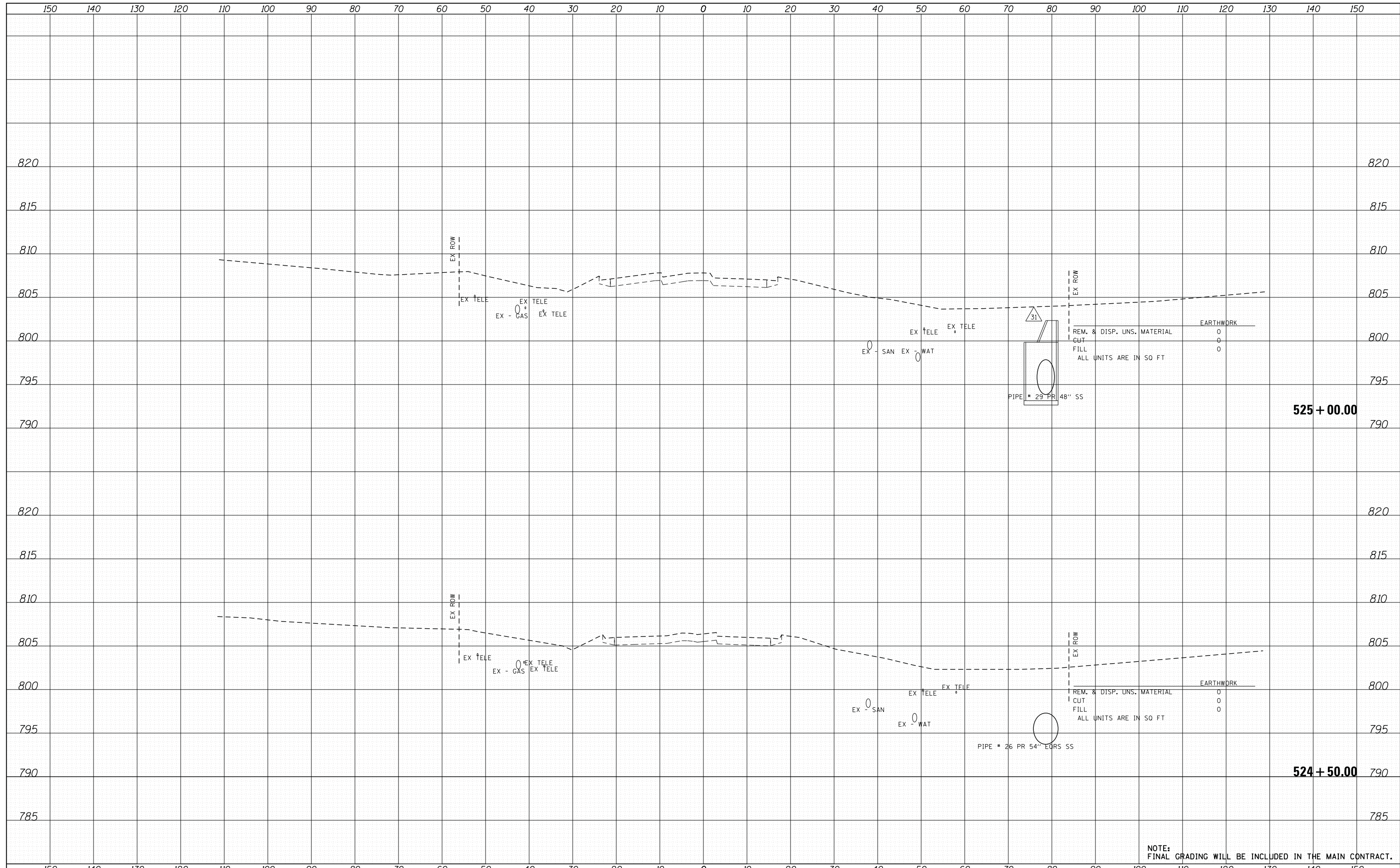
| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
|---------------------|----------------|---------|---------------------------|-----------|
| 3860                | 09-00372-02-PW | MCHENRY | 51                        | 29        |
| FED. ROAD DIST. NO. |                |         | ILLINOIS FED. AID PROJECT |           |

**524 + 00.00**

**523 + 50.00**

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEYED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS CHECKED |  |
| AREAS CHECKED |  |
| FINL SURVEY   |  |
| NOTE BOOK     |  |
| NO.           |  |

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|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS CHECKED   |  |
| AREAS CHECKED   |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |



NOTE:  
FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.



|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyejton  | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

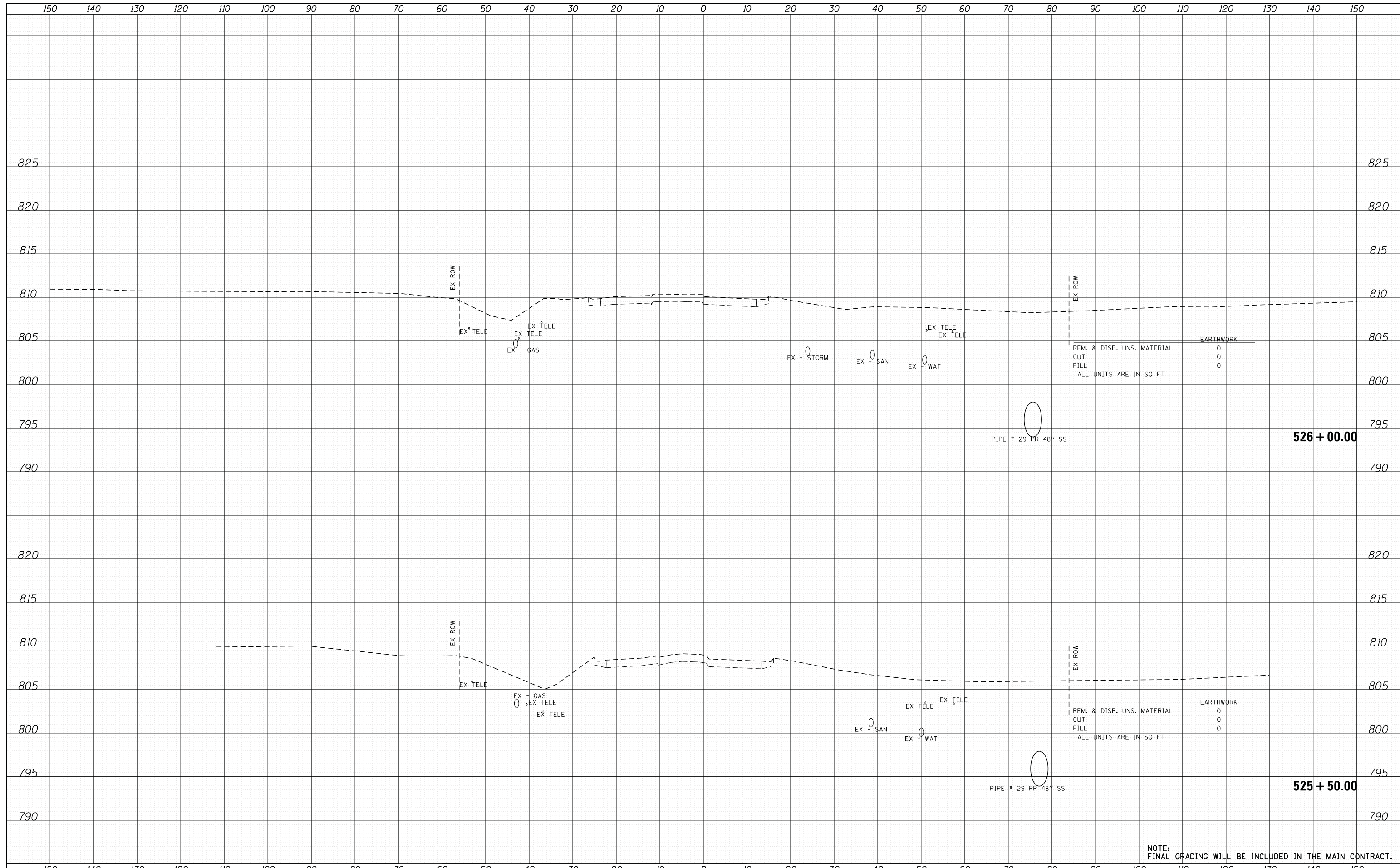
**CROSS SECTIONS  
CHARLES J. MILLER ROAD**

SCALE: 1"=10' SHEET NO. 4 OF 13 SHEETS STA. 524+50.00 TO STA. 525+00.00

| F.A.U. RTE.         | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|----------------|---------------------------|--------------|-----------|
| 3860                | 09-00372-02-PW | MCHENRY                   | 51           | 30        |
| CONTRACT NO.        |                |                           |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

|                            |  |
|----------------------------|--|
| DATE                       |  |
| BY                         |  |
| SURVEYED                   |  |
| PLOTTED                    |  |
| TEMPLATE                   |  |
| AREAS CHECKED              |  |
| FINAL SURVEY NOTE BOOK NO. |  |

|                               |  |
|-------------------------------|--|
| DATE                          |  |
| BY                            |  |
| SURVEYED                      |  |
| PLOTTED                       |  |
| TEMPLATE                      |  |
| AREAS CHECKED                 |  |
| ORIGINAL SURVEY NOTE BOOK NO. |  |



NOTE:  
FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.



|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyejton  | DESIGNED - TAY | REVISED - |
| PLOT SCALE = 1"=10'  | DRAWN - TAY    | REVISED - |
| PLOT DATE = 8/5/2014 | CHECKED - JLP  | REVISED - |
|                      | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS  
CHARLES J. MILLER ROAD**

SCALE: 1"=10' SHEET NO. 5 OF 13 SHEETS STA. 525+50.00 TO STA. 526+00.00

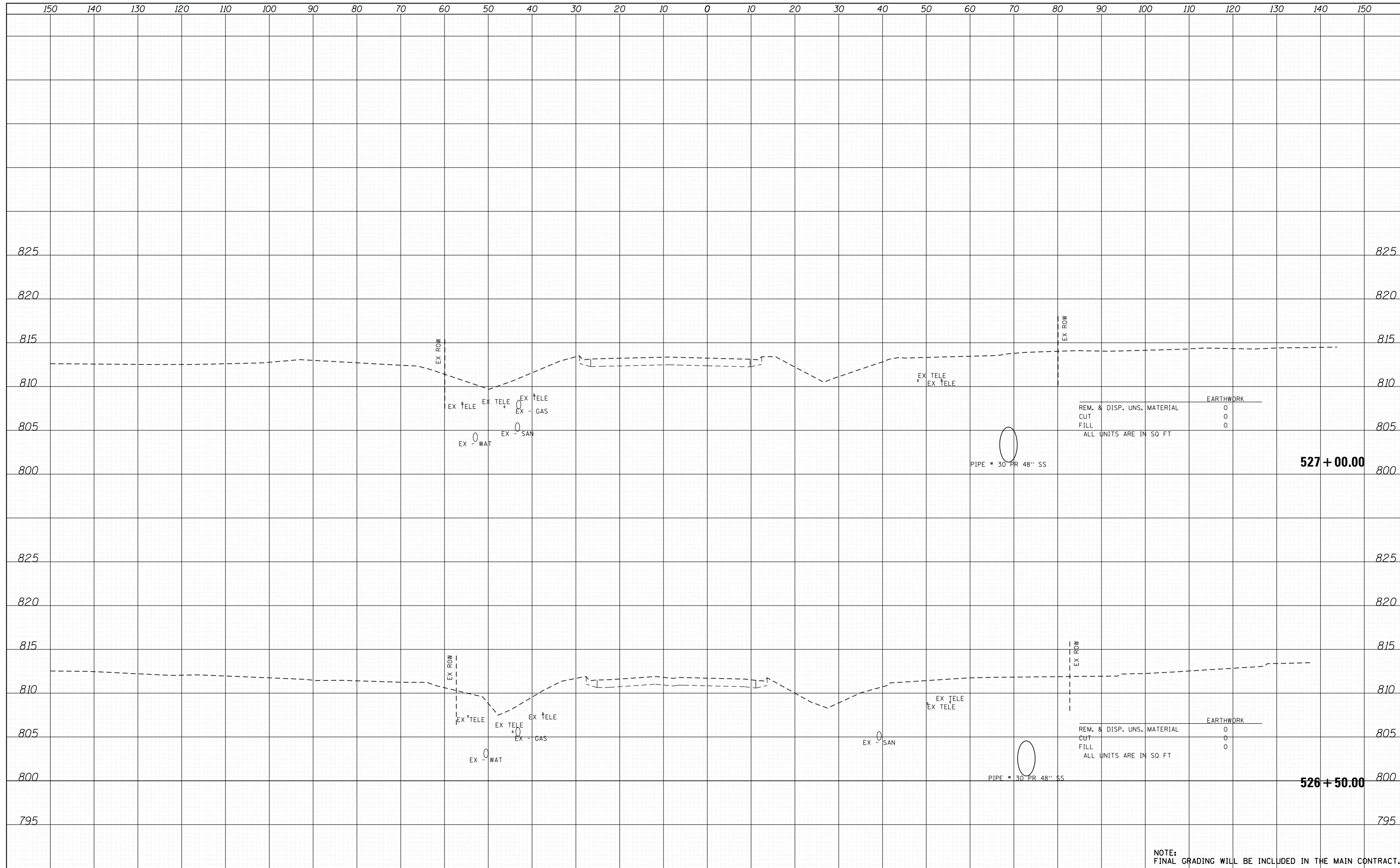
| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
|---------------------|----------------|---------|---------------------------|-----------|
| 3860                | 09-00372-02-PW | MCHENRY | 51                        | 31        |
| FED. ROAD DIST. NO. |                |         | ILLINOIS FED. AID PROJECT |           |

**526 + 00.00**

**525 + 50.00**

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| FINISHED SURVEY |  |
| PLOTTED         |  |
| NOTE BOOK       |  |
| AREAS CHECKED   |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| ORIGINAL SURVEY |  |
| PLOTTED         |  |
| NOTE BOOK       |  |
| AREAS CHECKED   |  |



| EARTHWORK                  |   |
|----------------------------|---|
| REM. & DISP. UNS. MATERIAL | 0 |
| CUT                        | 0 |
| FILL                       | 0 |

ALL UNITS ARE IN SQ FT

| EARTHWORK                  |   |
|----------------------------|---|
| REM. & DISP. UNS. MATERIAL | 0 |
| CUT                        | 0 |
| FILL                       | 0 |

ALL UNITS ARE IN SQ FT

NOTE:  
FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.



|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyejton  | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS  
CHARLES J. MILLER ROAD**

SCALE: 1"=10' SHEET NO. 6 OF 13 SHEETS STA. 526+50.00 TO STA. 527+00.00

| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
|---------------------|----------------|---------|---------------------------|-----------|
| 3860                | 09-00372-02-PW | MCHENRY | 51                        | 32        |
| FED. ROAD DIST. NO. |                |         | ILLINOIS FED. AID PROJECT |           |

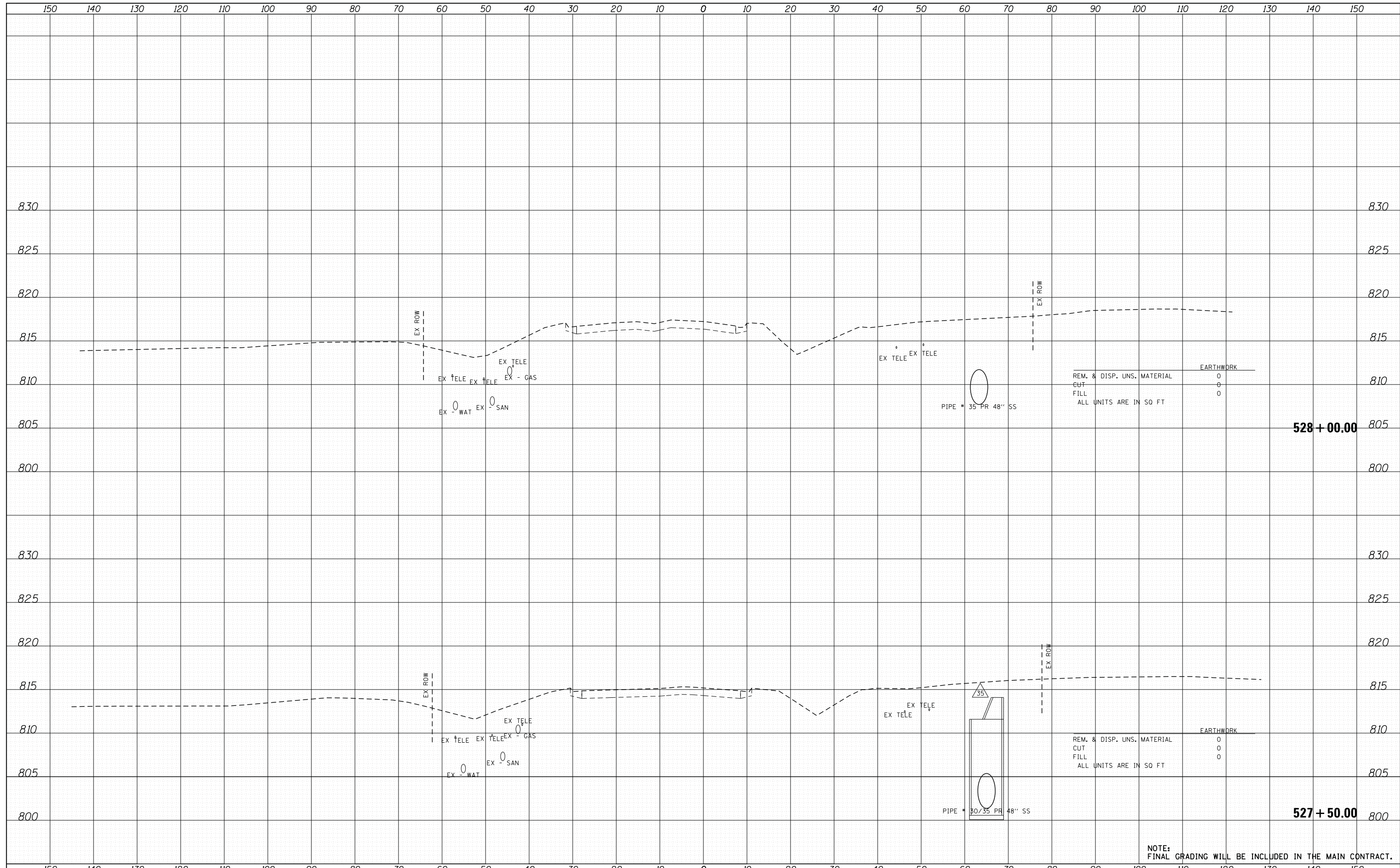
**527 + 00.00**

**526 + 50.00**



|              |  |
|--------------|--|
| DATE         |  |
| BY           |  |
| SURVEYED     |  |
| PLOTTED      |  |
| TEMPLATE     |  |
| AREAS        |  |
| CHECKED      |  |
| FINAL SURVEY |  |
| NOTE BOOK    |  |
| NO.          |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS           |  |
| CHECKED         |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |



420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
 Phone: 815.365.1778 | Toll Free: 800.728.7600 | Fax: 815.365.1751 | HRGreen.com  
 ILLINOIS PROFESSIONAL DESIGNER #164201327

|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyejton  | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

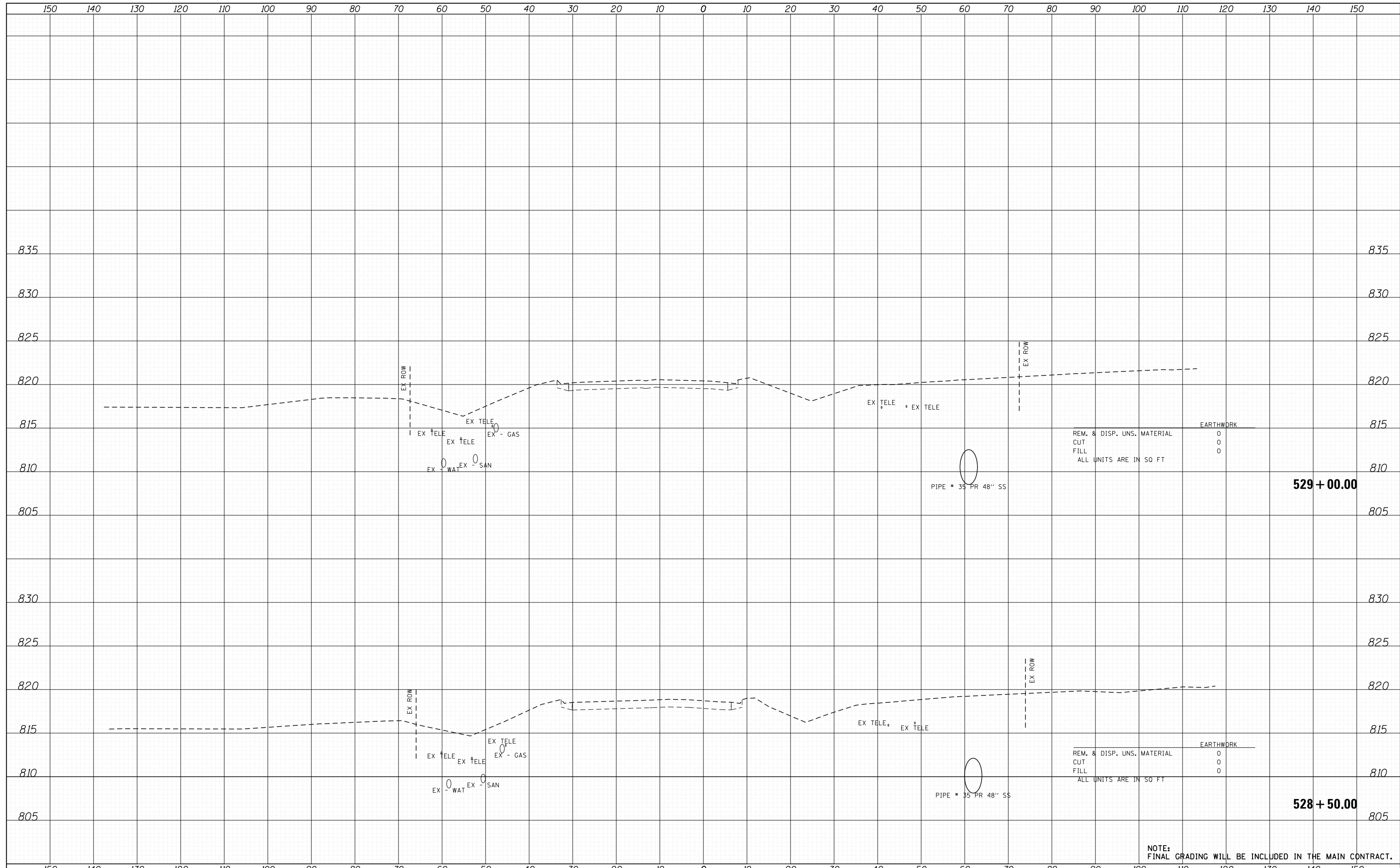
**CROSS SECTIONS  
CHARLES J. MILLER ROAD**

SCALE: 1"=10'    SHEET NO. 7 OF 13 SHEETS    STA. 527+50.00 TO STA. 528+00.00

|                     |                |         |                           |           |
|---------------------|----------------|---------|---------------------------|-----------|
| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
| 3860                | 09-00372-02-PW | MCHENRY | 51                        | 33        |
| FED. ROAD DIST. NO. |                |         | ILLINOIS FED. AID PROJECT |           |

|              |  |
|--------------|--|
| DATE         |  |
| BY           |  |
| SURVEYED     |  |
| PLOTTED      |  |
| TEMPLATE     |  |
| AREAS        |  |
| CHECKED      |  |
| FINAL SURVEY |  |
| NOTE BOOK    |  |
| NO.          |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS           |  |
| CHECKED         |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |



|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tjeilton | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

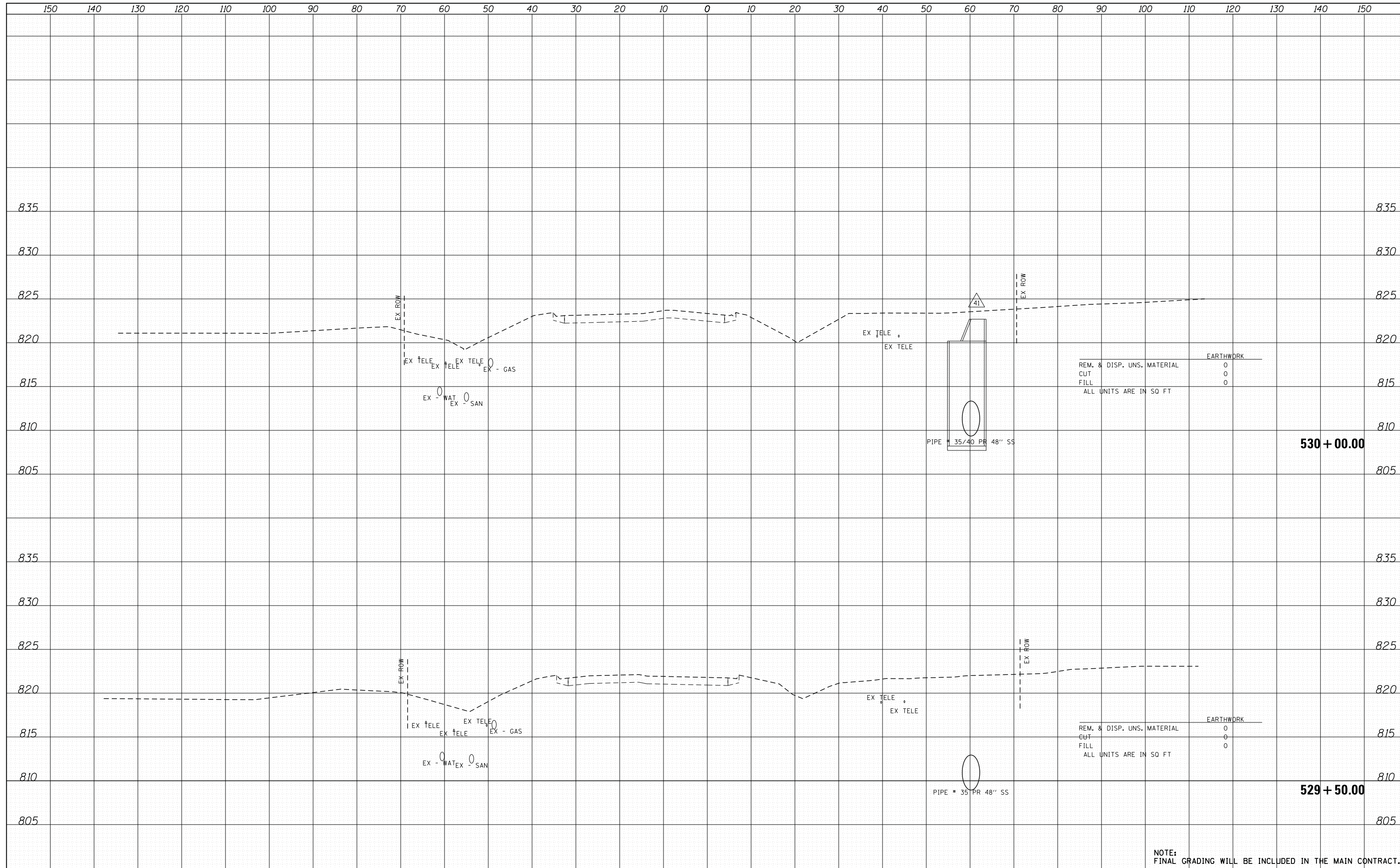
**CROSS SECTIONS  
CHARLES J. MILLER ROAD**

SCALE: 1"=10'      SHEET NO. 8 OF 13 SHEETS      STA. 528+50.00 TO STA. 529+00.00

|                     |                |         |                  |           |
|---------------------|----------------|---------|------------------|-----------|
| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS     | SHEET NO. |
| 3860                | 09-00372-02-PW | MCHENRY | 51               | 34        |
| FED. ROAD DIST. NO. |                |         | CONTRACT NO.     |           |
| ILLINOIS            |                |         | FED. AID PROJECT |           |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEYED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS CHECKED |  |
| FINAL SURVEY  |  |
| NOTE BOOK     |  |
| NO.           |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS CHECKED   |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |



NOTE:  
FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.



|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tjeilton | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS  
CHARLES J. MILLER ROAD**

SCALE: 1"=10'    SHEET NO. 9 OF 13 SHEETS    STA. 529+50.00 TO STA. 530+00.00

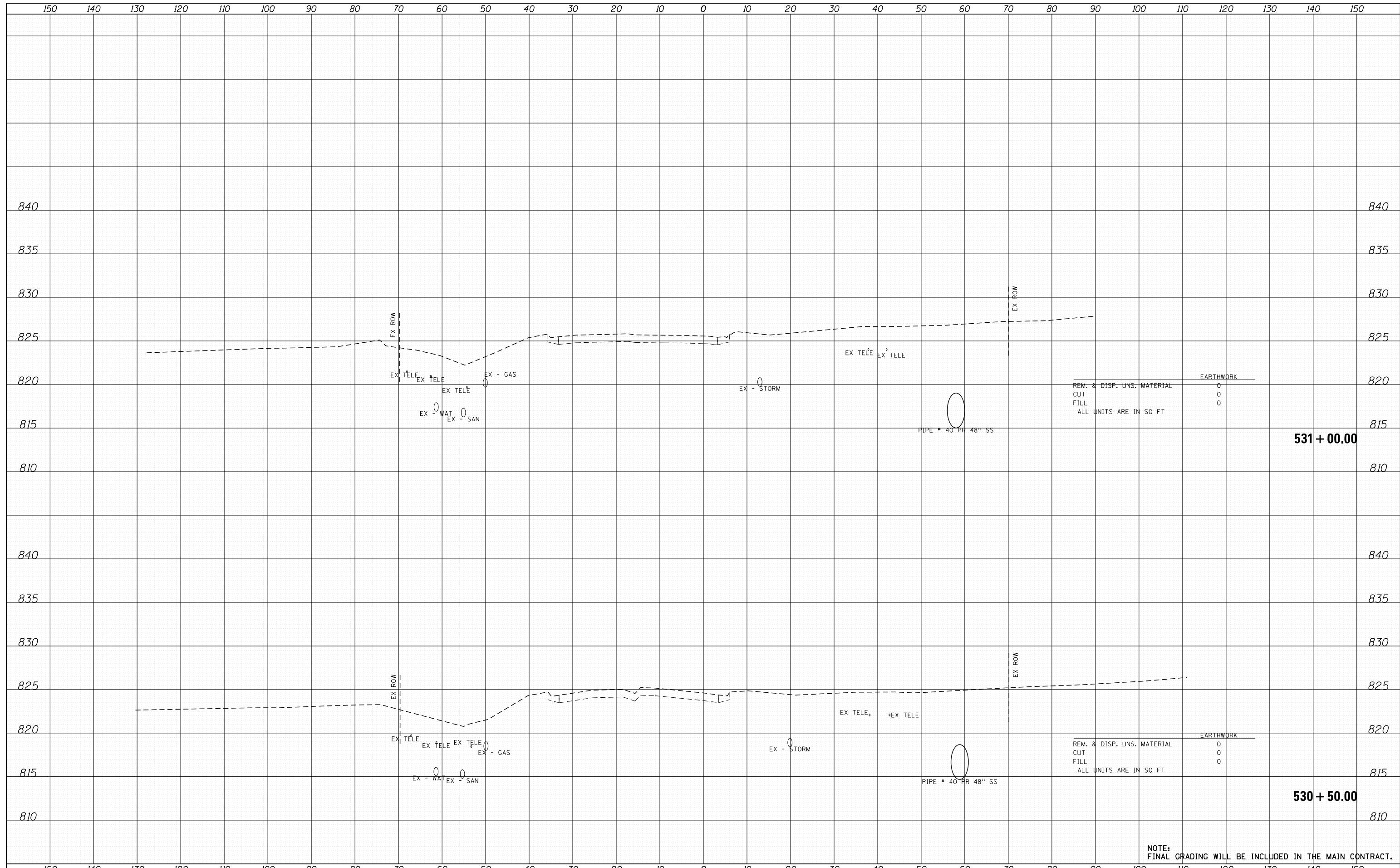
| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
|---------------------|----------------|---------|---------------------------|-----------|
| 3860                | 09-00372-02-PW | MCHENRY | 51                        | 35        |
| FED. ROAD DIST. NO. |                |         | ILLINOIS FED. AID PROJECT |           |

**530 + 00.00**

**529 + 50.00**

|                  |  |
|------------------|--|
| DATE             |  |
| BY               |  |
| SURVEYED         |  |
| PLOTTED          |  |
| TEMPLATE         |  |
| AREAS CHECKED    |  |
| FINAL SURVEY NO. |  |
| NOTE BOOK NO.    |  |
| AREAS CHECKED    |  |

|                     |  |
|---------------------|--|
| DATE                |  |
| BY                  |  |
| SURVEYED            |  |
| PLOTTED             |  |
| TEMPLATE            |  |
| AREAS CHECKED       |  |
| ORIGINAL SURVEY NO. |  |
| NOTE BOOK NO.       |  |
| AREAS CHECKED       |  |



420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
 Phone: 815.365.1778 | Toll Free: 800.728.7600 | Fax: 815.365.1781 | HRGreen.com  
 ILLINOIS PROFESSIONAL DESIGN #164201327

|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tjeilton | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
 DIVISION OF TRANSPORTATION**

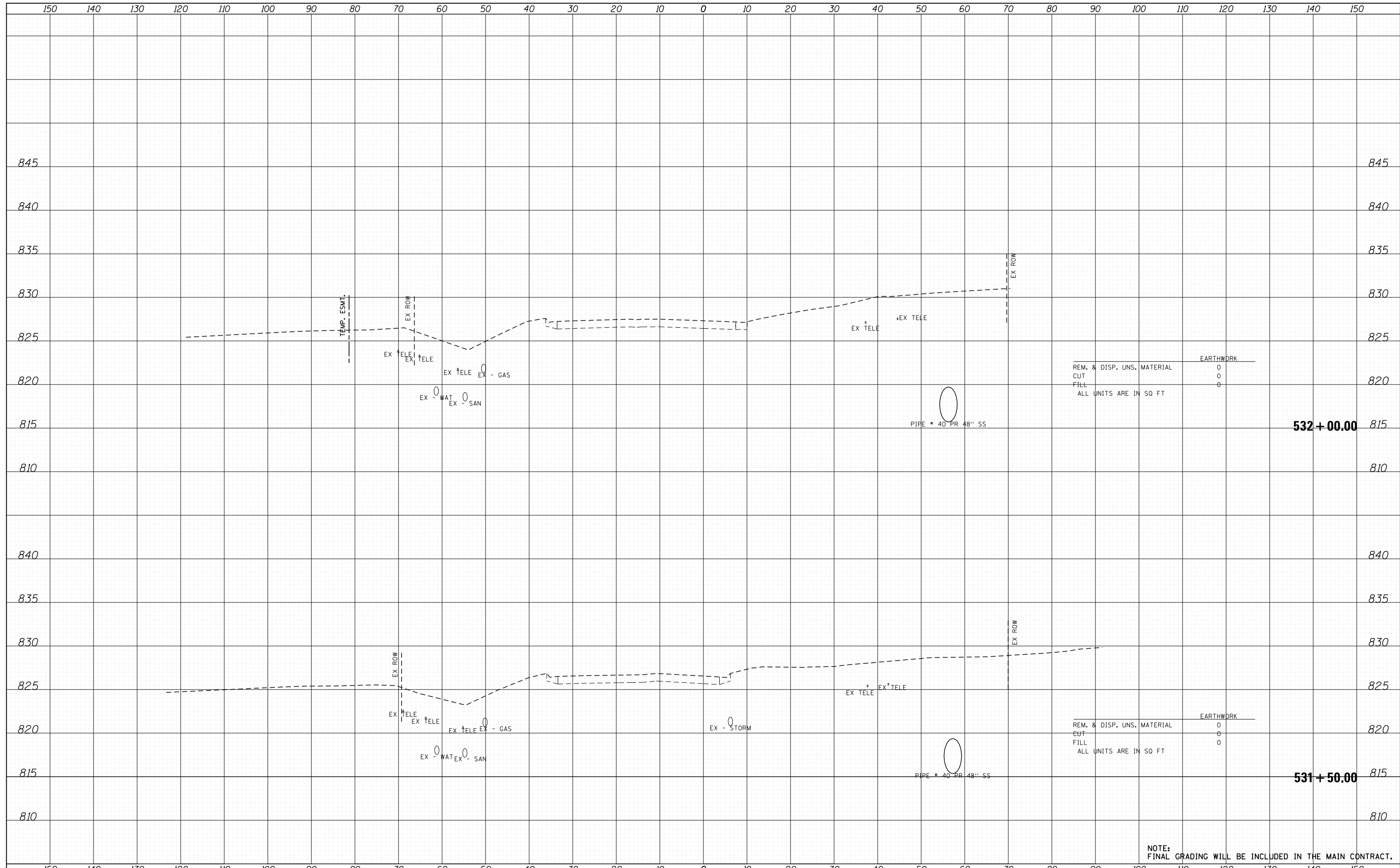
|  |                           |                                  |
|--|---------------------------|----------------------------------|
| <b>CROSS SECTIONS<br/>CHARLES J. MILLER ROAD</b> |                           |                                  |
| SCALE: 1"=10'                                    | SHEET NO. 10 OF 13 SHEETS | STA. 530+50.00 TO STA. 531+00.00 |

|                     |                |                           |              |           |
|---------------------|----------------|---------------------------|--------------|-----------|
| F.A.U. RTE.         | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 3860                | 09-00372-02-PW | MCHENRY                   | 51           | 36        |
| CONTRACT NO.        |                |                           |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

NOTE:  
 FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.

|                            |  |
|----------------------------|--|
| DATE                       |  |
| BY                         |  |
| SURVEYED                   |  |
| PLOTTED                    |  |
| TEMPLATE                   |  |
| AREAS CHECKED              |  |
| FINAL SURVEY NOTE BOOK NO. |  |

|                               |  |
|-------------------------------|--|
| DATE                          |  |
| BY                            |  |
| SURVEYED                      |  |
| PLOTTED                       |  |
| TEMPLATE                      |  |
| AREAS CHECKED                 |  |
| ORIGINAL SURVEY NOTE BOOK NO. |  |



NOTE: FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.



|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tjeilton | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS  
CHARLES J. MILLER ROAD**

SCALE: 1"=10' SHEET NO. 11 OF 13 SHEETS STA. 531+50.00 TO STA. 532+00.00

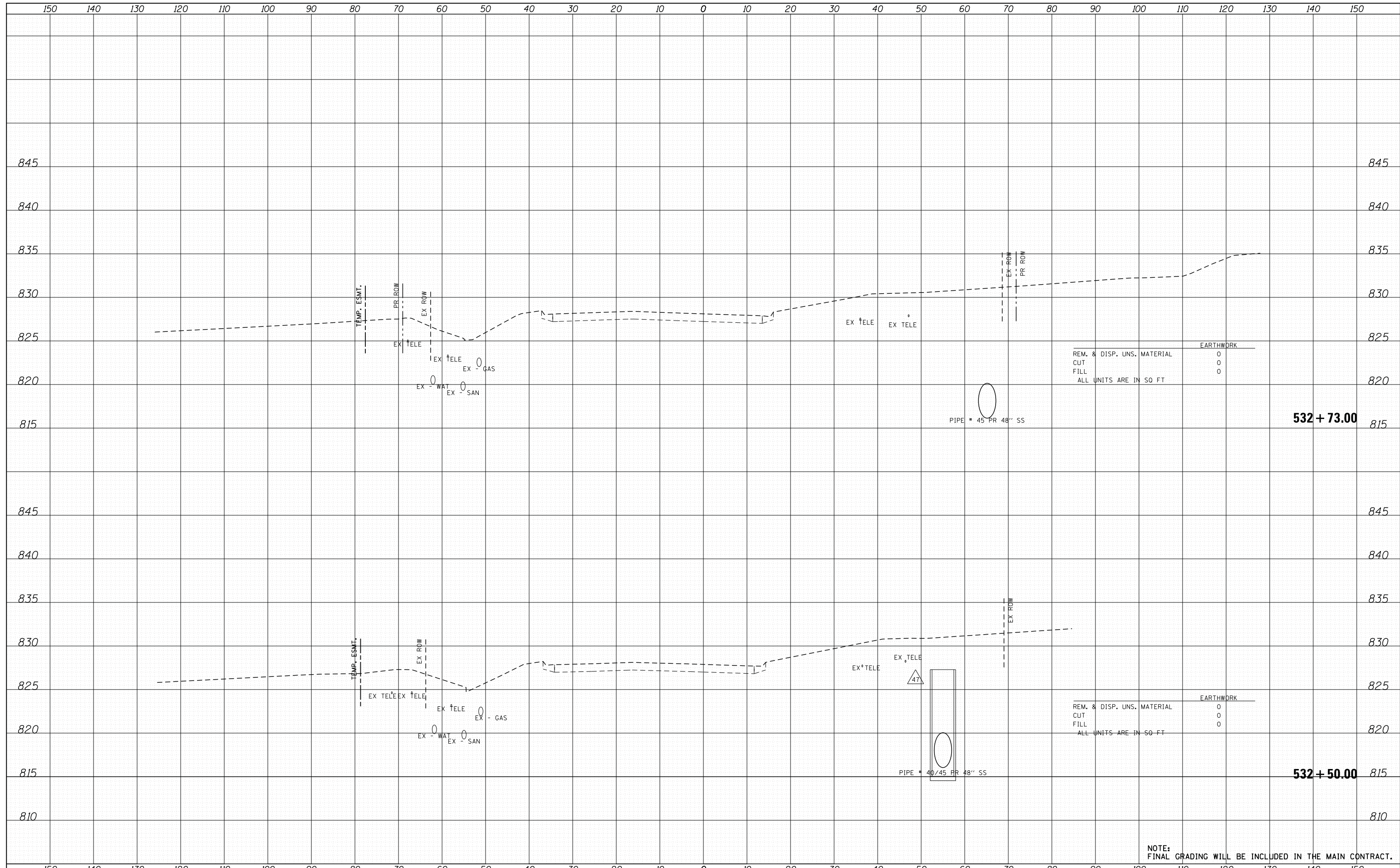
|                     |                |         |                           |           |
|---------------------|----------------|---------|---------------------------|-----------|
| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
| 3860                | 09-00372-02-PW | MCHENRY | 51                        | 37        |
| FED. ROAD DIST. NO. |                |         | ILLINOIS FED. AID PROJECT |           |

531 + 50.00

532 + 00.00

|                            |  |
|----------------------------|--|
| DATE                       |  |
| BY                         |  |
| SURVEYED                   |  |
| PLOTTED                    |  |
| TEMPLATE                   |  |
| AREAS CHECKED              |  |
| FINAL SURVEY NOTE BOOK NO. |  |

|                               |  |
|-------------------------------|--|
| DATE                          |  |
| BY                            |  |
| SURVEYED                      |  |
| PLOTTED                       |  |
| TEMPLATE                      |  |
| AREAS CHECKED                 |  |
| ORIGINAL SURVEY NOTE BOOK NO. |  |



420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
 Phone: 815.365.1778 | Toll Free: 800.728.7800 | Fax: 815.365.1751 | HRGreen.com  
 ILLINOIS PROFESSIONAL DESIGNER FROM 8/16/2012

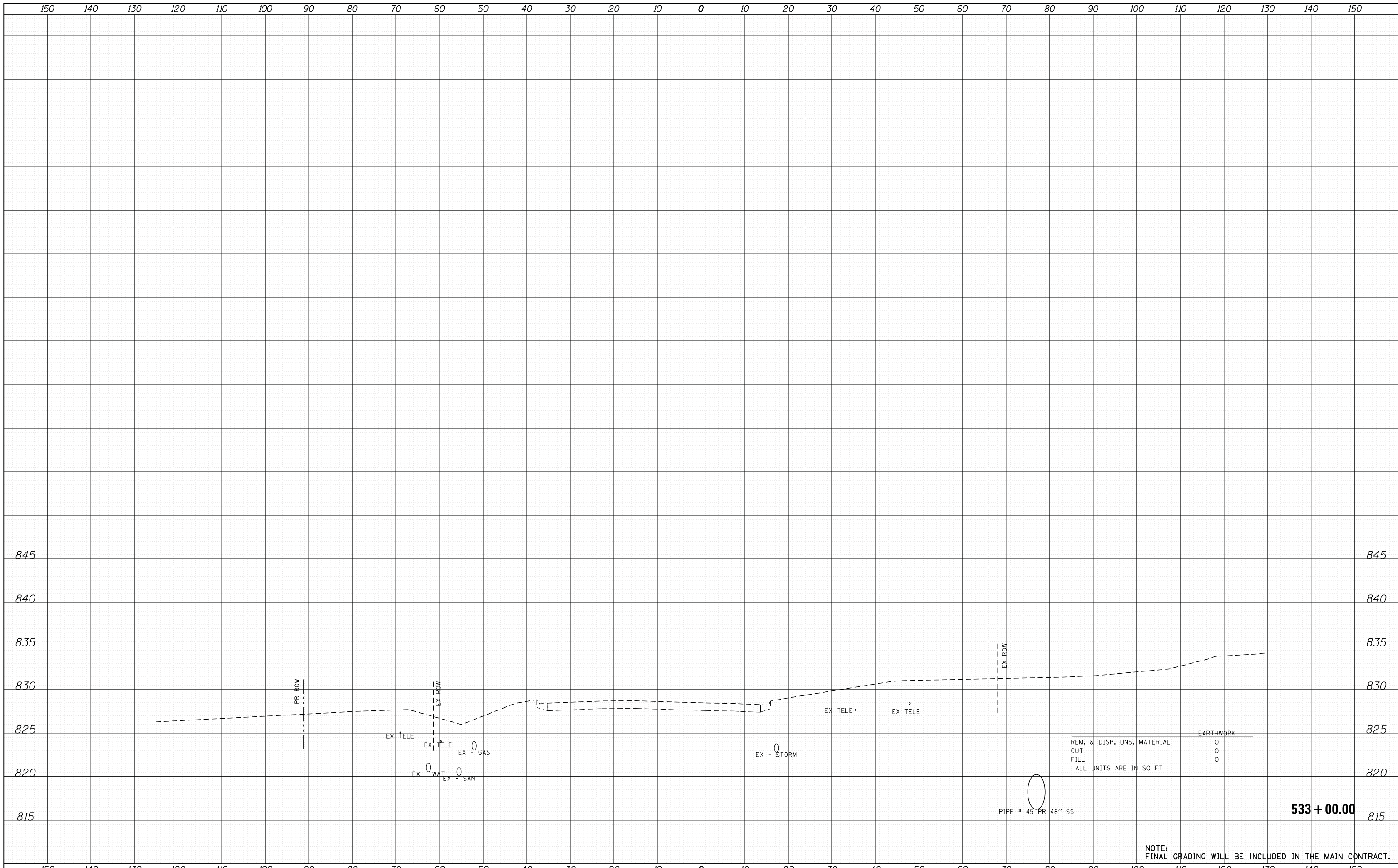
|                      |                |            |
|----------------------|----------------|------------|
| USER NAME = tyeilton | DESIGNED - TAY | REVISIED - |
|                      | DRAWN - TAY    | REVISIED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISIED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISIED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS  
CHARLES J. MILLER ROAD**

SCALE: 1"=10'      SHEET NO. 12 OF 13 SHEETS      STA. 532+50.00 TO STA. 532+73.00

|  |                |         |              |           |
|--|----------------|---------|--------------|-----------|
| F.A.U. RTE.                                      | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 3860   | 09-00372-02-PW | MCHENRY | 51           | 38        |
| CONTRACT NO.                                     |                |         |              |           |
| FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT |                |         |              |           |



|              |  |
|--------------|--|
| DATE         |  |
| BY           |  |
| SURVEYED     |  |
| PLOTTED      |  |
| TEMPLATE     |  |
| AREAS        |  |
| CHECKED      |  |
| FINAL SURVEY |  |
| NOTE BOOK    |  |
| NO.          |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS           |  |
| CHECKED         |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |

|                            |   |
|----------------------------|---|
| REM. & DISP. UNS. MATERIAL | 0 |
| CUT                        | 0 |
| FILL                       | 0 |
| ALL UNITS ARE IN SQ FT     |   |

EARTHWORK

**533 + 00.00**

NOTE: FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.

420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
 Phone: 815.365.1778 | Toll Free: 800.728.7800 | Fax: 815.365.1751 | HRGreen.com  
 ILLINOIS PROFESSIONAL DESIGN #0184401327

|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyejton  | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

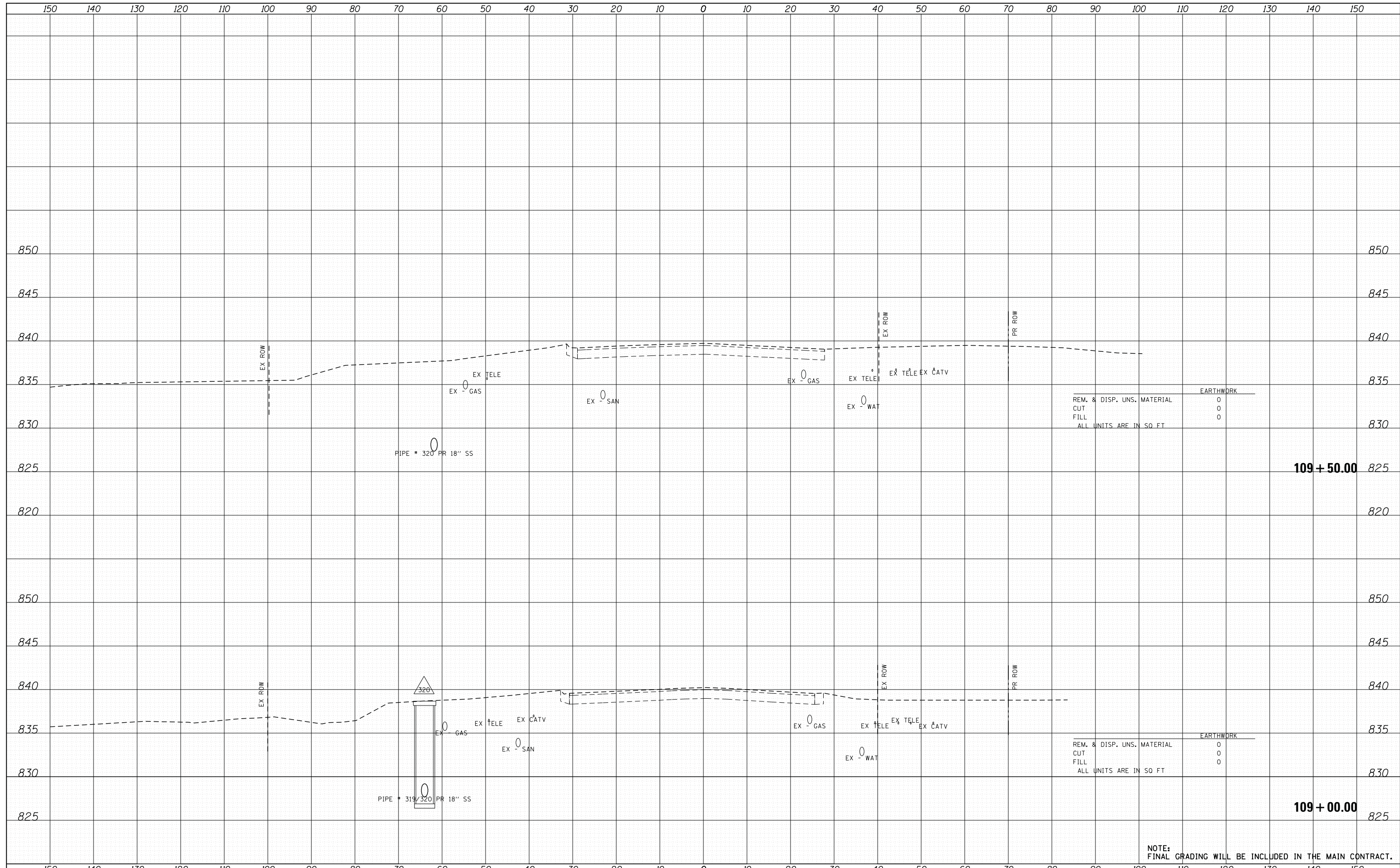
**CROSS SECTIONS  
CHARLES J. MILLER ROAD**

SCALE: 1"=10' SHEET NO. 13 OF 13 SHEETS STA. 533+00.00 TO STA. 533+00.00

| F.A.U. RTE.         | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|----------------|---------------------------|--------------|-----------|
| 3860                | 09-00372-02-PW | MCHENRY                   | 51           | 39        |
| CONTRACT NO.        |                |                           |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

|              |  |
|--------------|--|
| DATE         |  |
| BY           |  |
| SURVEYED     |  |
| PLOTTED      |  |
| TEMPLATE     |  |
| AREAS        |  |
| CHECKED      |  |
| FINAL SURVEY |  |
| NOTE BOOK    |  |
| NO.          |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS           |  |
| CHECKED         |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |



420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
 Phone: 815.365.1778 | Toll Free: 800.728.7600 | Fax: 815.365.1751 | HRGreen.com  
 ILLINOIS PROFESSIONAL DESIGNER #164201327

|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tjeilton | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

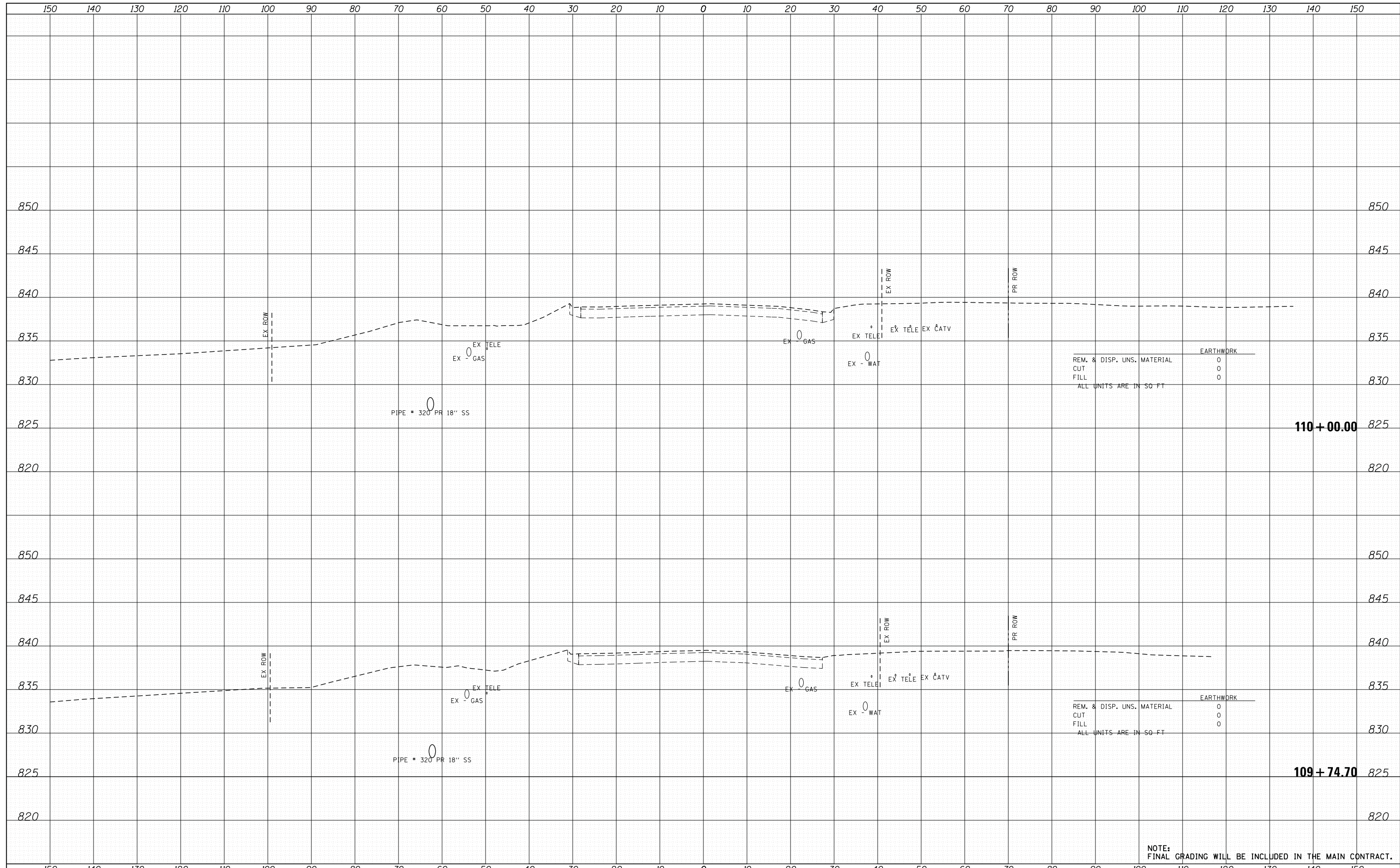
|   |                          |
|---|--------------------------|
| <b>CROSS SECTIONS<br/>ILLINOIS ROUTE 31</b> |                          |
| SCALE: 1"=10'                               | SHEET NO. 1 OF 12 SHEETS |
| STA. 109+00.00 TO STA. 109+50.00            |                          |

|                     |                |              |                  |           |
|---------------------|----------------|--------------|------------------|-----------|
| F.A.U. RTE.         | SECTION        | COUNTY       | TOTAL SHEETS     | SHEET NO. |
| 3860                | 09-00372-02-PW | MCHENRY      | 51               | 40        |
| FED. ROAD DIST. NO. |                | ILLINOIS     | FED. AID PROJECT |           |
|                     |                | CONTRACT NO. |                  |           |



|              |  |
|--------------|--|
| DATE         |  |
| BY           |  |
| SURVEYED     |  |
| PLOTTED      |  |
| TEMPLATE     |  |
| AREAS        |  |
| CHECKED      |  |
| FINAL SURVEY |  |
| NOTE BOOK    |  |
| NO.          |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS           |  |
| CHECKED         |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |



NOTE:  
FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.

420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
Phone: 815.365.1778 | Toll Free: 800.728.7600 | Fax: 815.365.1751 | HRGreen.com  
ILLINOIS PROFESSIONAL DESIGN #164201327

|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyejton  | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

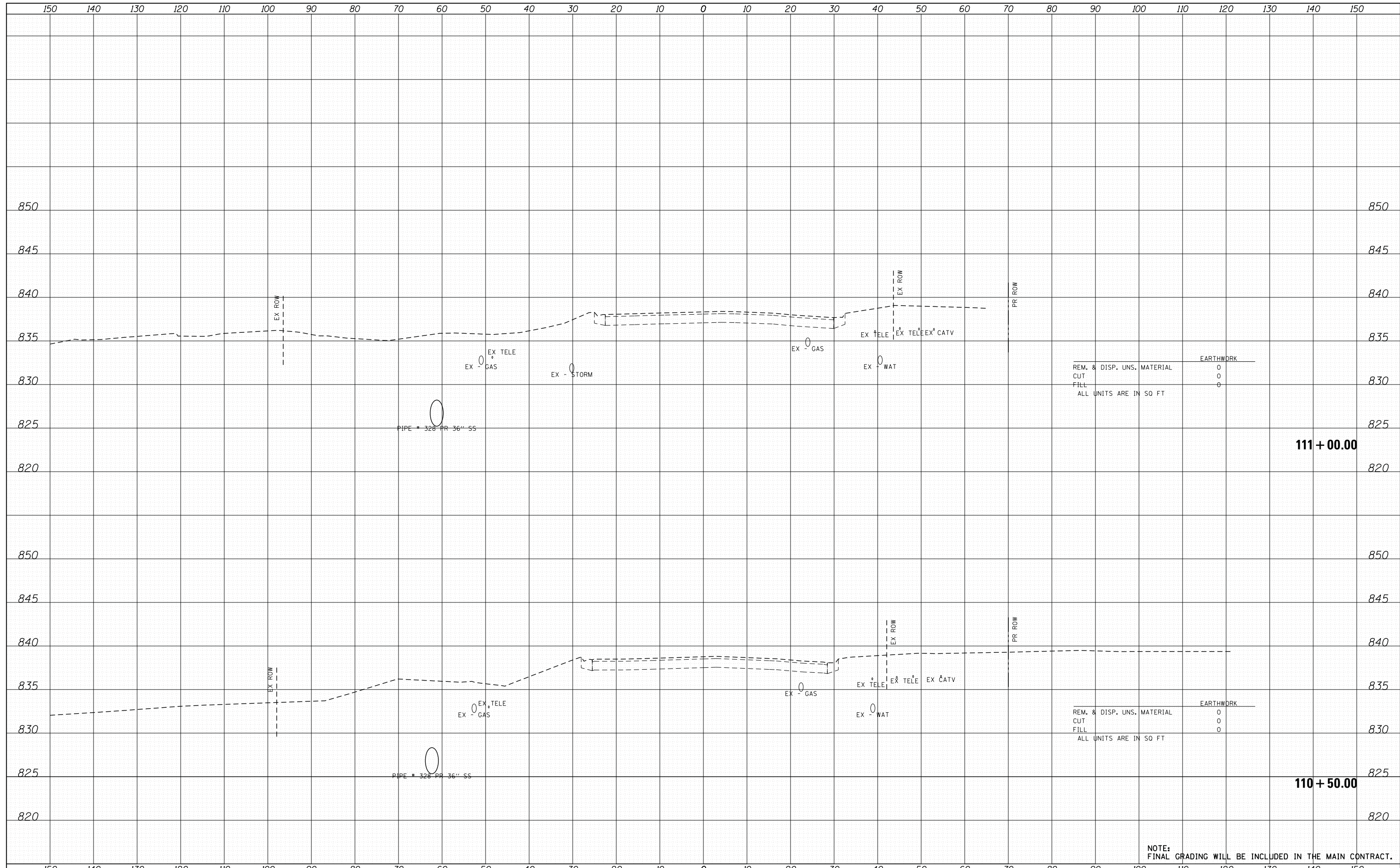
**CROSS SECTIONS  
ILLINOIS ROUTE 31**

SCALE: 1"=10'    SHEET NO. 2 OF 12 SHEETS    STA. 109+74.70 TO STA. 110+00.00

|                     |                |         |                           |           |
|---------------------|----------------|---------|---------------------------|-----------|
| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
| 3860                | 09-00372-02-PW | MCHENRY | 51                        | 41        |
| FED. ROAD DIST. NO. |                |         | ILLINOIS FED. AID PROJECT |           |

|                            |  |
|----------------------------|--|
| DATE                       |  |
| BY                         |  |
| SURVEYED                   |  |
| PLOTTED                    |  |
| TEMPLATE                   |  |
| AREAS CHECKED              |  |
| FINAL SURVEY NOTE BOOK NO. |  |

|                               |  |
|-------------------------------|--|
| DATE                          |  |
| BY                            |  |
| SURVEYED                      |  |
| PLOTTED                       |  |
| TEMPLATE                      |  |
| AREAS CHECKED                 |  |
| ORIGINAL SURVEY NOTE BOOK NO. |  |



NOTE: FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.

420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
 Phone: 815.365.1778 | Toll Free: 800.728.7600 | Fax: 815.365.1751 | HRGreen.com  
 ILLINOIS PROFESSIONAL DESIGN #164201327

|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyejton  | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

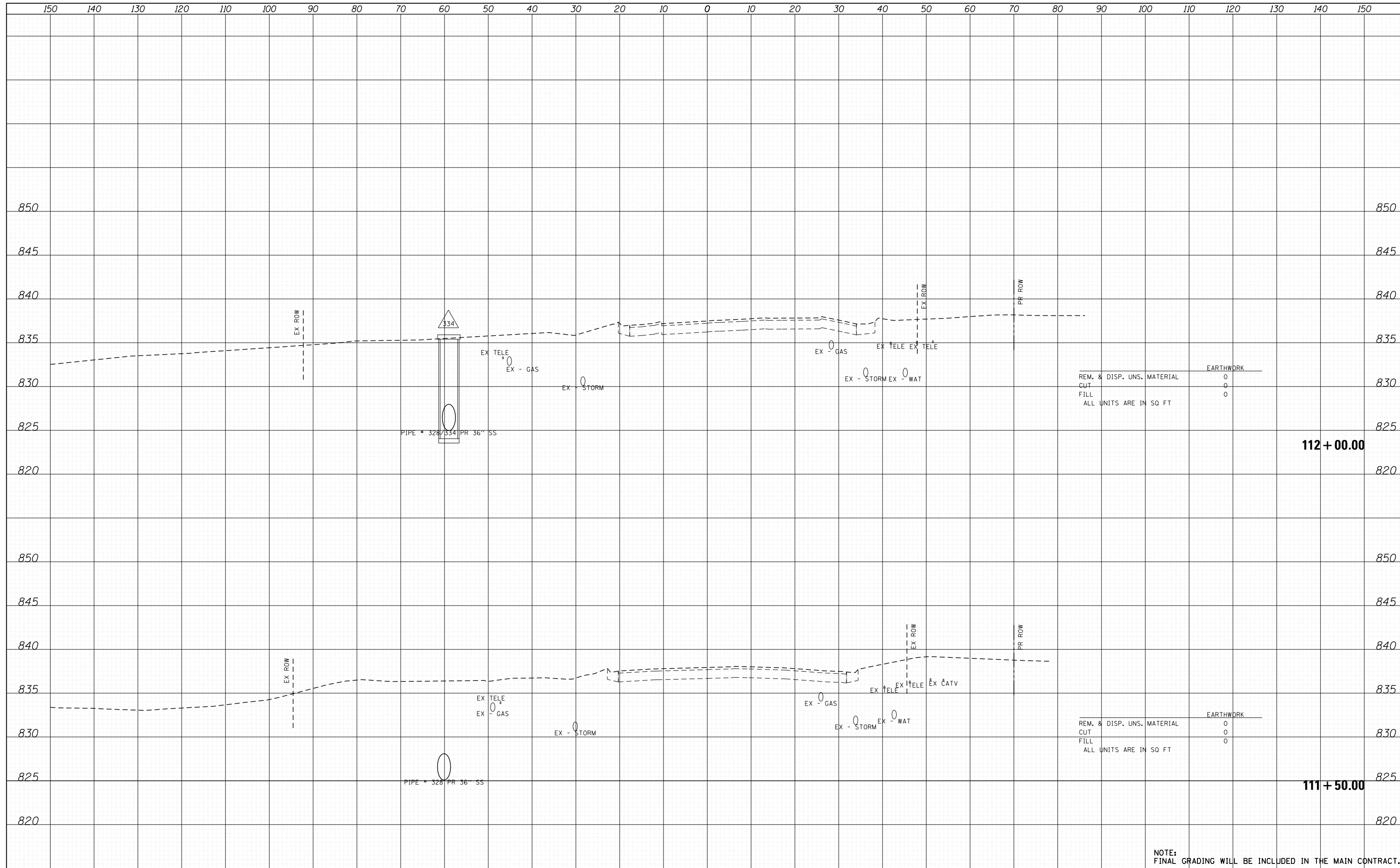
**CROSS SECTIONS  
ILLINOIS ROUTE 31**

SCALE: 1"=10'      SHEET NO. 3 OF 12 SHEETS      STA. 110+50.00 TO STA. 111+00.00

| F.A.U. RTE.                                      | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|--|----------------|---------|--------------|-----------|
| 3860   | 09-00372-02-PW | MCHENRY | 51           | 42        |
| CONTRACT NO.                                     |                |         |              |           |
| FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT |                |         |              |           |

|               |  |
|---------------|--|
| DATE          |  |
| BY            |  |
| SURVEYED      |  |
| PLOTTED       |  |
| TEMPLATE      |  |
| AREAS CHECKED |  |
| FINAL SURVEY  |  |
| NOTE BOOK     |  |
| NO.           |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS CHECKED   |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |



| EARTHWORK                  |   |
|----------------------------|---|
| REM. & DISP. UNS. MATERIAL | 0 |
| CUT                        | 0 |
| FILL                       | 0 |
| ALL UNITS ARE IN SQ FT     |   |

| EARTHWORK                  |   |
|----------------------------|---|
| REM. & DISP. UNS. MATERIAL | 0 |
| CUT                        | 0 |
| FILL                       | 0 |
| ALL UNITS ARE IN SQ FT     |   |

NOTE:  
FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.

420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
Phone: 815.385.1778 | Toll Free: 800.728.7800 | Fax: 815.385.1751 | HRGreen.com  
ILLINOIS PROFESSIONAL DESIGN #164201327

|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyeilton | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS  
ILLINOIS ROUTE 31**

SCALE: 1"=10'    SHEET NO. 4 OF 12 SHEETS    STA. 111+50.00 TO STA. 112+00.00

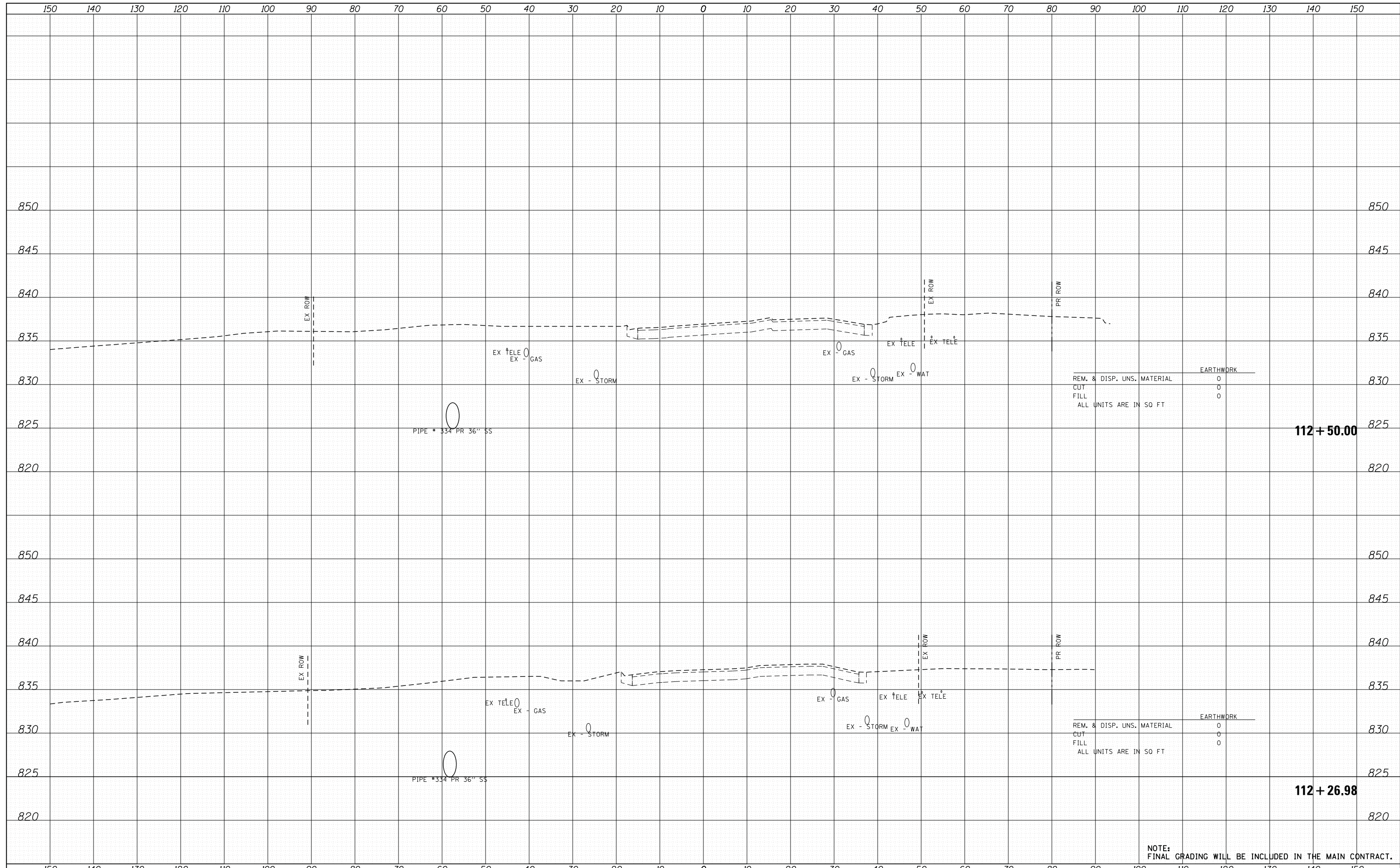
| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
|---------------------|----------------|---------|---------------------------|-----------|
| 3860                | 09-00372-02-PW | MCHENRY | 51                        | 43        |
| FED. ROAD DIST. NO. |                |         | ILLINOIS FED. AID PROJECT |           |

**112 + 00.00**

**111 + 50.00**

|              |               |
|--------------|---------------|
| DATE         |               |
| BY           |               |
| FINAL SURVEY | SURVEYED      |
| NOTE BOOK    | PLOTTED       |
| NO.          | TEMPLATE      |
|              | AREAS CHECKED |

|                 |               |
|-----------------|---------------|
| DATE            |               |
| BY              |               |
| ORIGINAL SURVEY | SURVEYED      |
| NOTE BOOK       | PLOTTED       |
| NO.             | TEMPLATE      |
|                 | AREAS CHECKED |



NOTE: FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.



|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyejton  | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

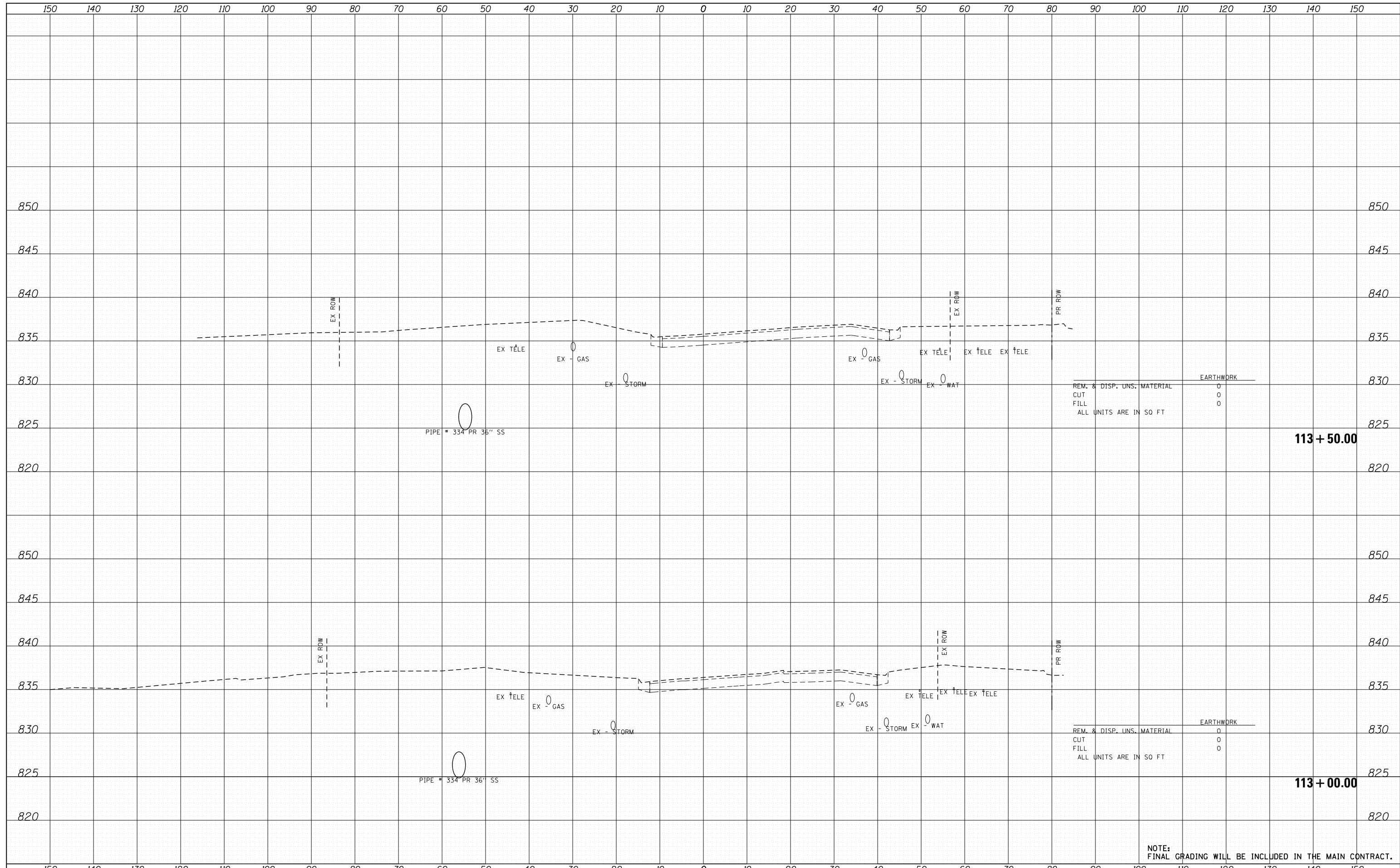
**CROSS SECTIONS  
ILLINOIS ROUTE 31**

SCALE: 1"=10' SHEET NO. 5 OF 12 SHEETS STA. 112+26.98 TO STA. 112+50.00

| F.A.U. RTE.                                   | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|---|----------------|---------|--------------|-----------|
| 3860  | 09-00372-02-PW | MCHENRY | 51           | 44        |
| CONTRACT NO.                                  |                |         |              |           |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                |         |              |           |

|                            |  |
|----------------------------|--|
| DATE                       |  |
| BY                         |  |
| SURVEYED                   |  |
| PLOTTED                    |  |
| TEMPLATE                   |  |
| AREAS CHECKED              |  |
| FINAL SURVEY NOTE BOOK NO. |  |

|                               |  |
|-------------------------------|--|
| DATE                          |  |
| BY                            |  |
| SURVEYED                      |  |
| PLOTTED                       |  |
| TEMPLATE                      |  |
| AREAS CHECKED                 |  |
| ORIGINAL SURVEY NOTE BOOK NO. |  |



NOTE: FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.

420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
 Phone: 815.385.1778 | Toll Free: 800.728.7800 | Fax: 815.385.1751 | HRGreen.com  
 ILLINOIS PROFESSIONAL DESIGN FROM 1848 TO 2122

|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyejton  | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

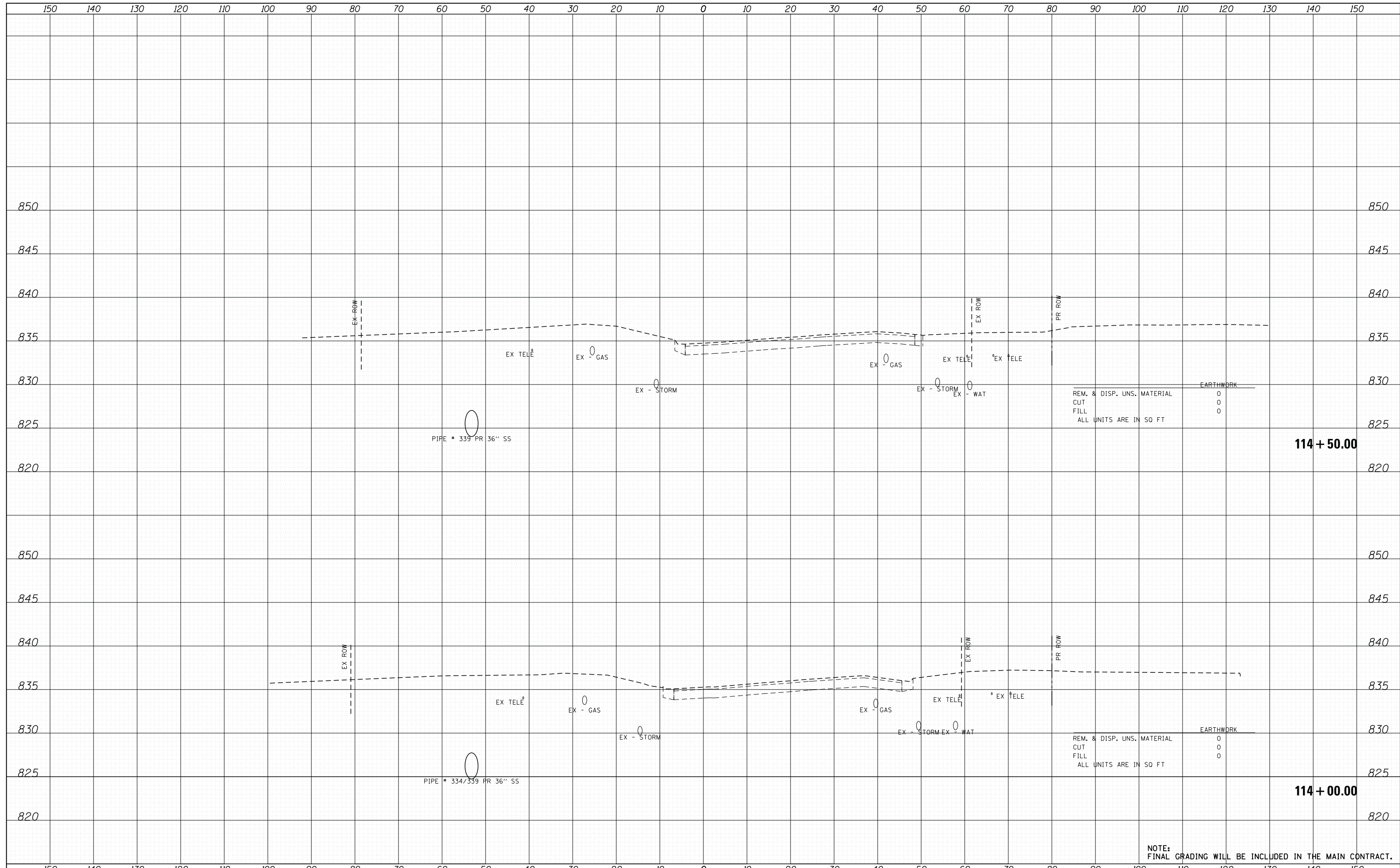
**CROSS SECTIONS  
ILLINOIS ROUTE 31**

SCALE: 1"=10'      SHEET NO. 6 OF 12 SHEETS      STA. 113+00.00 TO STA. 113+50.00

| F.A.U. RTE.         | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|----------------|---------------------------|--------------|-----------|
| 3860                | 09-00372-02-PW | MCHENRY                   | 51           | 45        |
| CONTRACT NO.        |                |                           |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

|                            |  |
|----------------------------|--|
| DATE                       |  |
| BY                         |  |
| SURVEYED                   |  |
| PLOTTED                    |  |
| TEMPLATE                   |  |
| AREAS CHECKED              |  |
| FINAL SURVEY NOTE BOOK NO. |  |

|                               |  |
|-------------------------------|--|
| DATE                          |  |
| BY                            |  |
| SURVEYED                      |  |
| PLOTTED                       |  |
| TEMPLATE                      |  |
| AREAS CHECKED                 |  |
| ORIGINAL SURVEY NOTE BOOK NO. |  |



420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
 Phone: 815.385.1778 | Toll Free: 800.728.7800 | Fax: 815.385.1751 | HRGreen.com  
 ILLINOIS PROFESSIONAL DESIGN #164201327

|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyejton  | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
 DIVISION OF TRANSPORTATION**

**CROSS SECTIONS  
 ILLINOIS ROUTE 31**

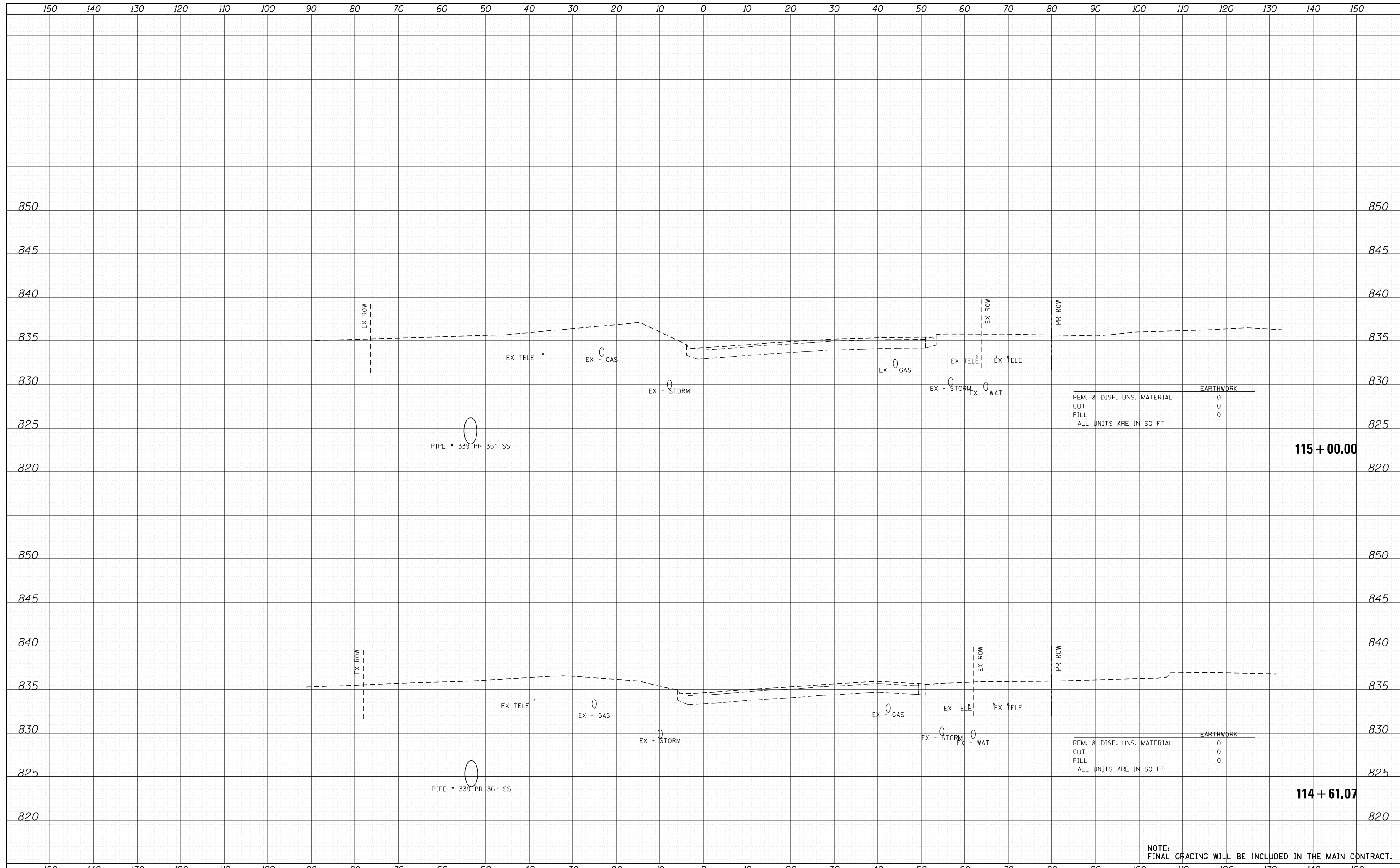
SCALE: 1"=10'      SHEET NO. 7 OF 12 SHEETS      STA. 114+00.00 TO STA. 114+50.00

|                     |                |         |                           |           |
|---------------------|----------------|---------|---------------------------|-----------|
| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
| 3860                | 09-00372-02-PW | MCHENRY | 51                        | 46        |
| FED. ROAD DIST. NO. |                |         | ILLINOIS FED. AID PROJECT |           |

NOTE:  
 FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.

|              |  |
|--------------|--|
| DATE         |  |
| BY           |  |
| SURVEYED     |  |
| PLOTTED      |  |
| TEMPLATE     |  |
| AREAS        |  |
| CHECKED      |  |
| FINAL SURVEY |  |
| NOTE BOOK    |  |
| NO.          |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS           |  |
| CHECKED         |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |



|                            |   |
|----------------------------|---|
| REM. & DISP. UNS. MATERIAL | 0 |
| CUT                        | 0 |
| FILL                       | 0 |
| ALL UNITS ARE IN SQ FT     |   |

|                            |   |
|----------------------------|---|
| REM. & DISP. UNS. MATERIAL | 0 |
| CUT                        | 0 |
| FILL                       | 0 |
| ALL UNITS ARE IN SQ FT     |   |

NOTE:  
FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.

420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
Phone: 815.365.1778 | Toll Free: 800.728.7600 | Fax: 815.365.1751 | HRGreen.com  
ILLINOIS PROFESSIONAL DESIGN FIRM #164201327

|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyeilton | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS  
ILLINOIS ROUTE 31**

SCALE: 1"=10'      SHEET NO. 8 OF 12 SHEETS      STA. 114+61.07 TO STA. 115+00.00

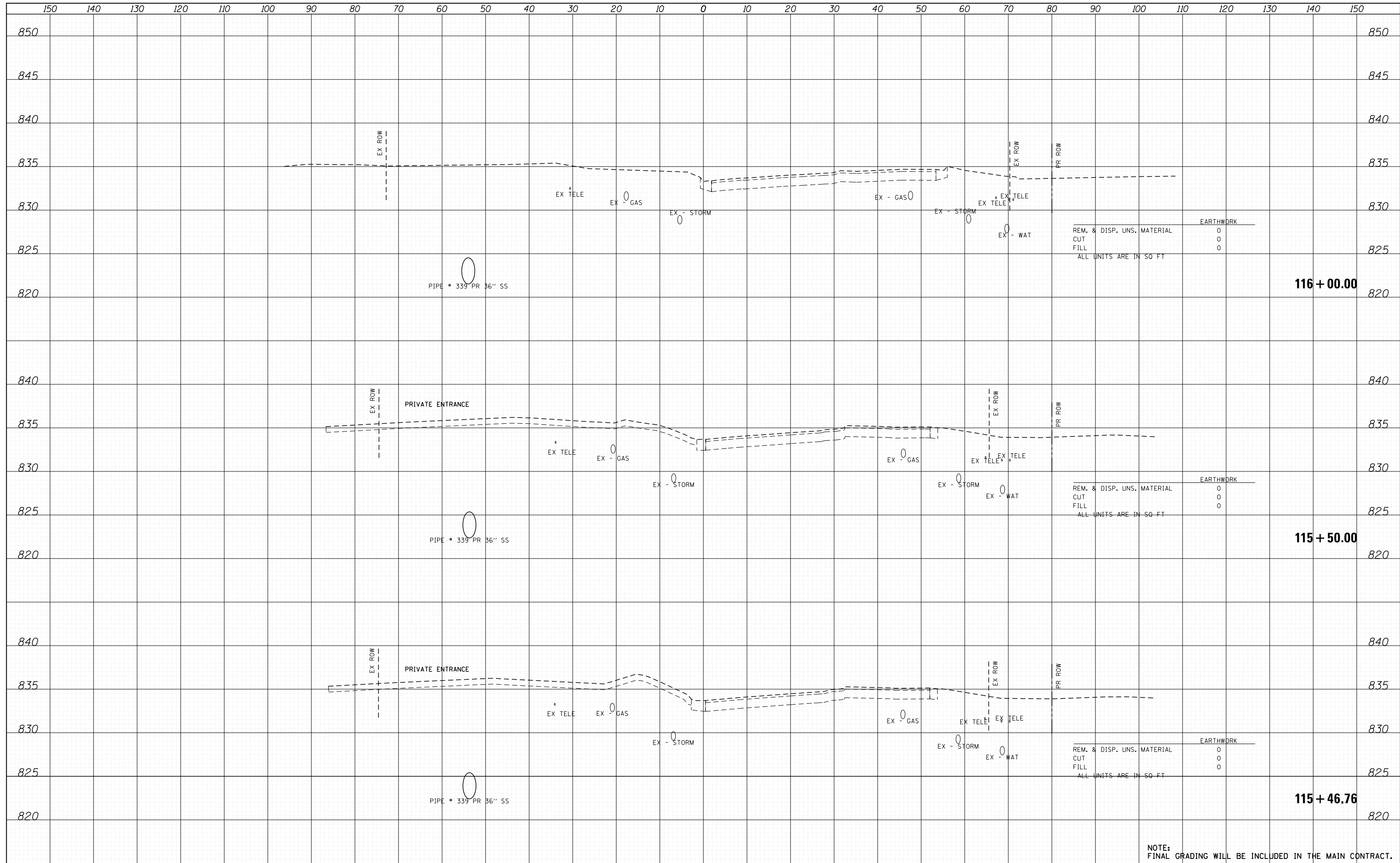
|                     |                |          |              |                  |
|---------------------|----------------|----------|--------------|------------------|
| F.A.U. RTE.         | SECTION        | COUNTY   | TOTAL SHEETS | SHEET NO.        |
| 3860                | 09-00372-02-PW | MCHENRY  | 51           | 47               |
| FED. ROAD DIST. NO. |                | ILLINOIS |              | FED. AID PROJECT |

**115 + 00.00**

**114 + 61.07**

|          |  |
|----------|--|
| DATE     |  |
| BY       |  |
| SURVEYED |  |
| PLOTTED  |  |
| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| NO.      |  |

|          |  |
|----------|--|
| DATE     |  |
| BY       |  |
| SURVEYED |  |
| PLOTTED  |  |
| TEMPLATE |  |
| AREAS    |  |
| CHECKED  |  |
| NO.      |  |



NOTE: FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.



|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyeilton | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS  
ILLINOIS ROUTE 31**

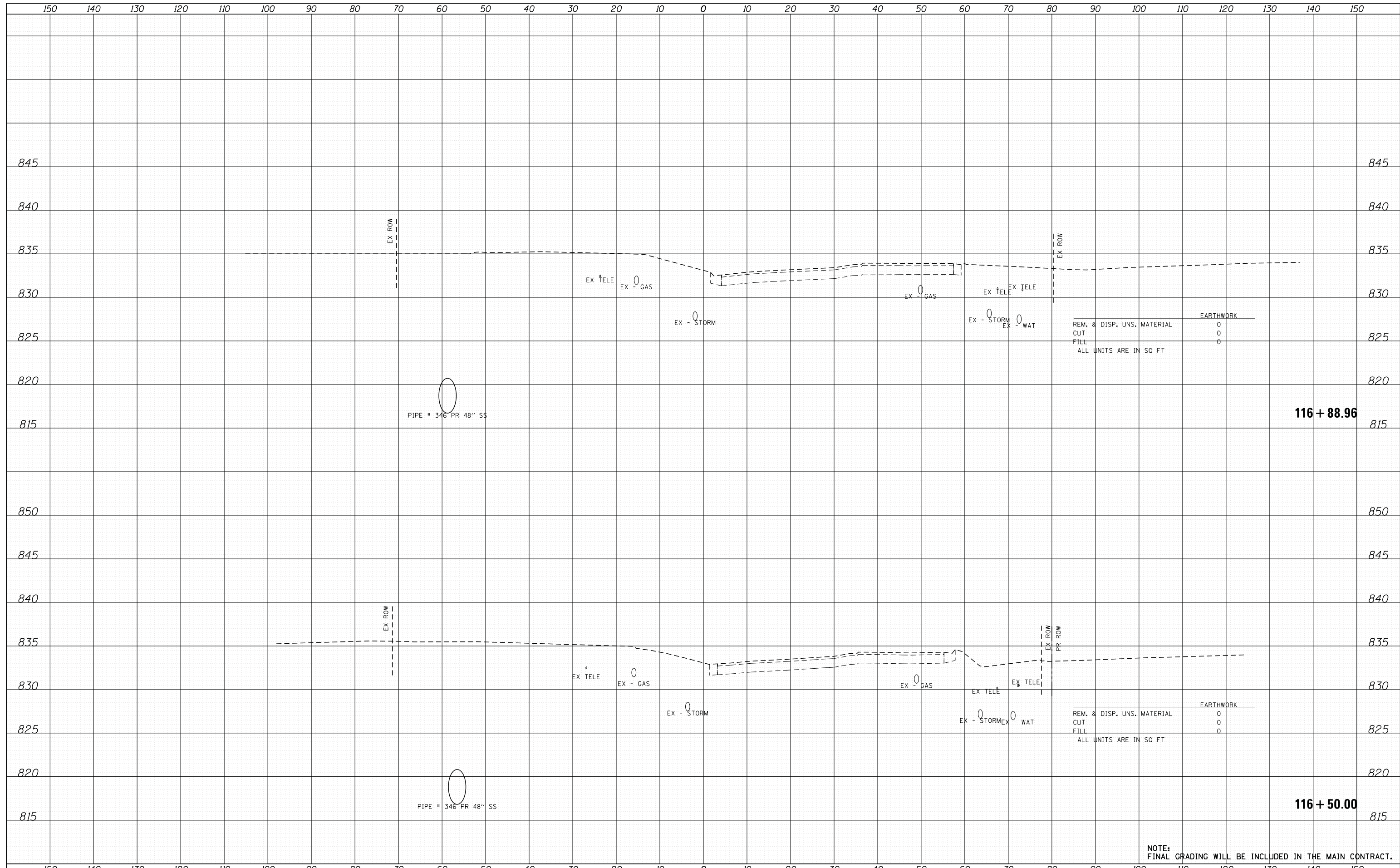
SCALE: 1"=10' SHEET NO. 9 OF 12 SHEETS STA. 115+46.76 TO STA. 116+00.00

| F.A.U. RTE.         | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------|----------------|---------------------------|--------------|-----------|
| 3860                | 09-00372-02-PW | MCHENRY                   | 51           | 48        |
| CONTRACT NO.        |                |                           |              |           |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |



|              |  |
|--------------|--|
| DATE         |  |
| BY           |  |
| SURVEYED     |  |
| PLOTTED      |  |
| TEMPLATE     |  |
| AREAS        |  |
| CHECKED      |  |
| FINAL SURVEY |  |
| NOTE BOOK    |  |
| NO.          |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS           |  |
| CHECKED         |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |



**116 + 88.96**

**116 + 50.00**

NOTE:  
FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.

420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
 Phone: 815.365.1778 | Toll Free: 800.728.7800 | Fax: 815.365.1751 | HRGreen.com  
 ILLINOIS PROFESSIONAL DESIGNER #164201327

|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyejton  | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

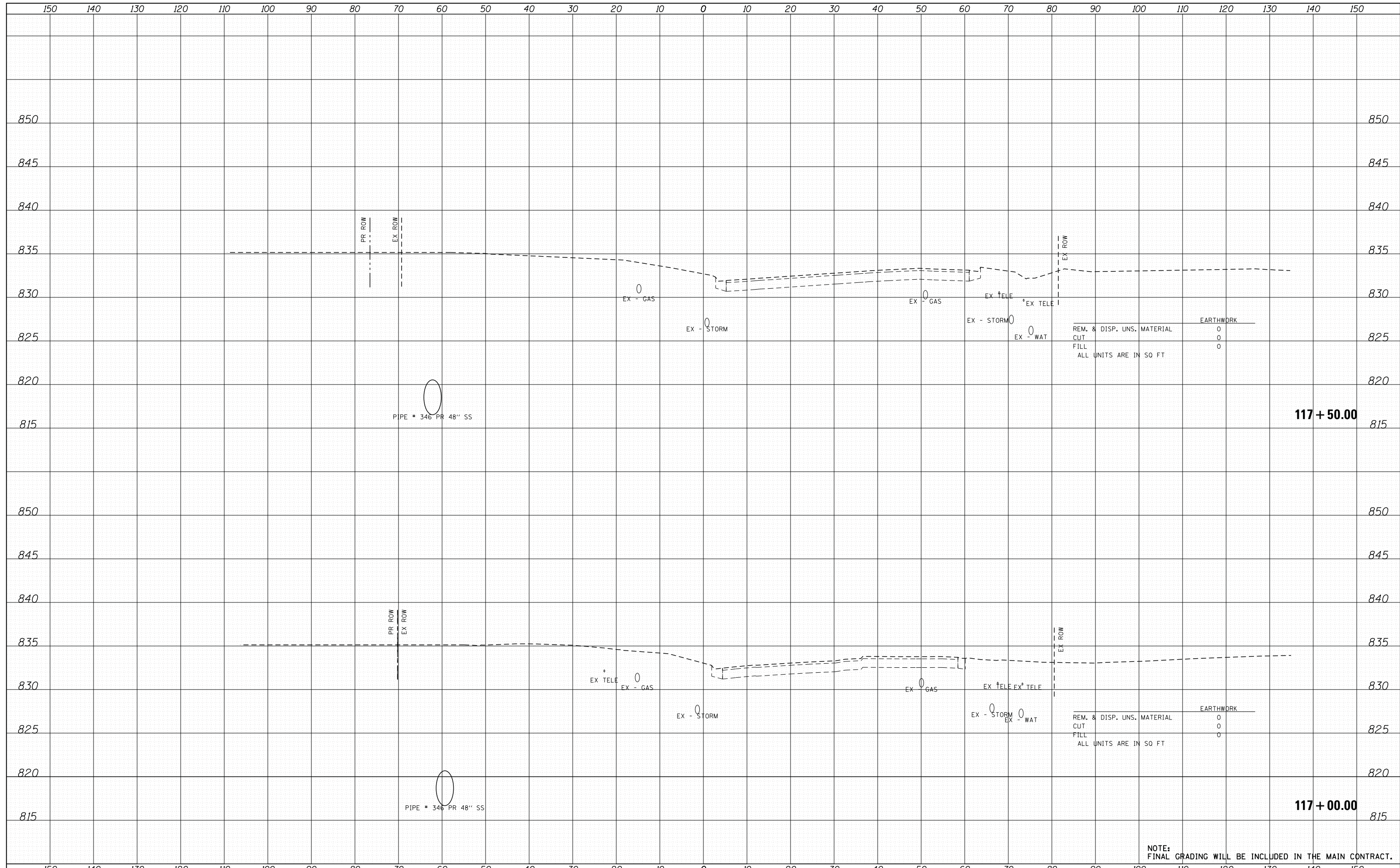
**CROSS SECTIONS  
ILLINOIS ROUTE 31**

SCALE: 1"=10'      SHEET NO. 10 OF 12 SHEETS      STA. 116+50.00 TO STA. 116+88.96

| F.A.U. RTE.                                      | SECTION        | COUNTY  | TOTAL SHEETS | SHEET NO. |
|--|----------------|---------|--------------|-----------|
| 3860   | 09-00372-02-PW | MCHENRY | 51           | 49        |
| CONTRACT NO.                                     |                |         |              |           |
| FED. ROAD DIST. NO.    ILLINOIS FED. AID PROJECT |                |         |              |           |

|              |  |
|--------------|--|
| DATE         |  |
| BY           |  |
| SURVEYED     |  |
| PLOTTED      |  |
| TEMPLATE     |  |
| AREAS        |  |
| CHECKED      |  |
| FINAL SURVEY |  |
| NOTE BOOK    |  |
| NO.          |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS           |  |
| CHECKED         |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |



|                            |   |
|----------------------------|---|
| REM. & DISP. UNS. MATERIAL | 0 |
| CUT                        | 0 |
| FILL                       | 0 |
| ALL UNITS ARE IN SQ FT     |   |
| EARTHWORK                  |   |

|                            |   |
|----------------------------|---|
| REM. & DISP. UNS. MATERIAL | 0 |
| CUT                        | 0 |
| FILL                       | 0 |
| ALL UNITS ARE IN SQ FT     |   |
| EARTHWORK                  |   |

NOTE:  
FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.

420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
Phone: 815.365.1778 | Toll Free: 800.728.7600 | Fax: 815.365.1751 | HRGreen.com  
ILLINOIS PROFESSIONAL DESIGN FROM 1818 TO 2012

|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tyejton  | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

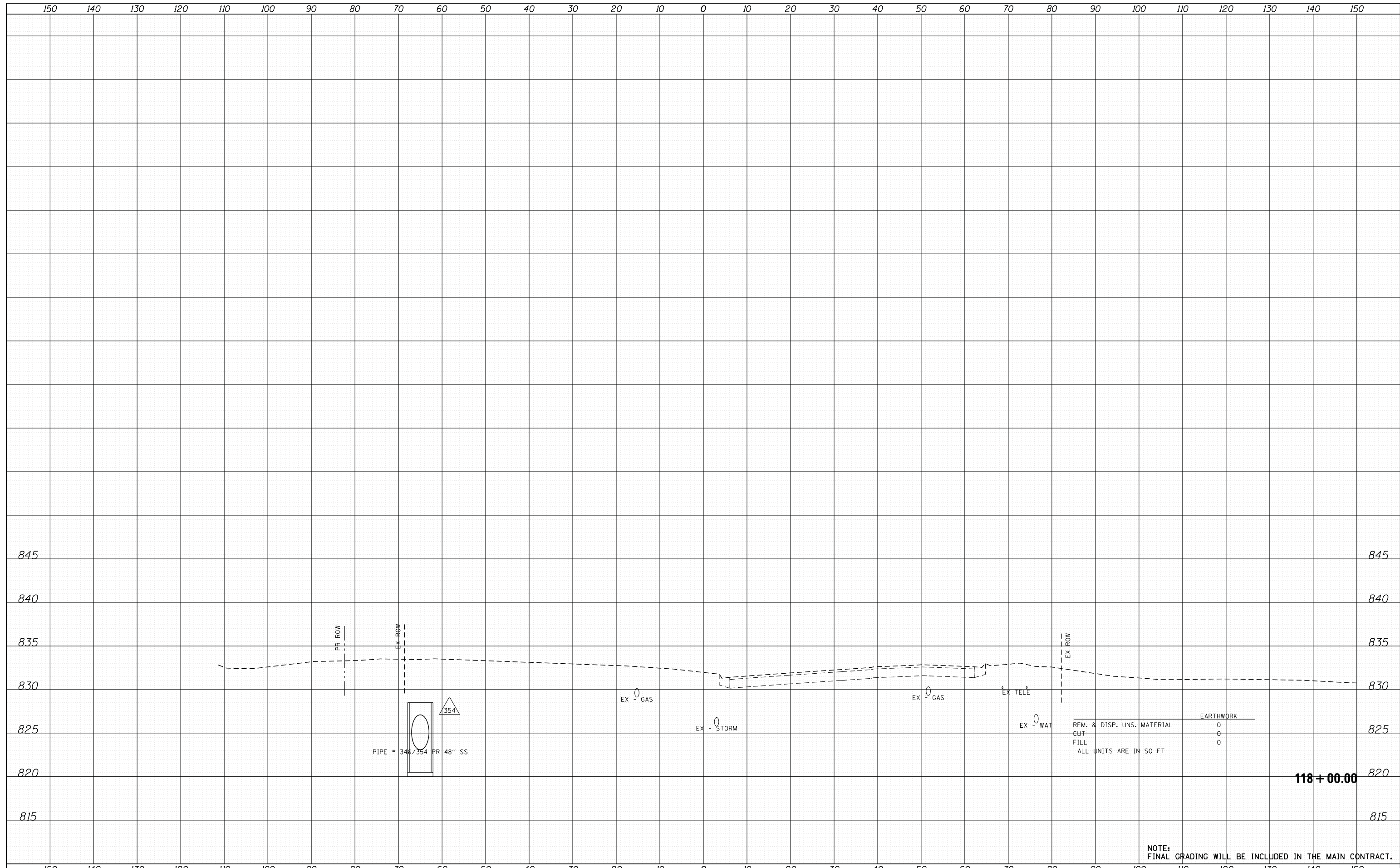
**CROSS SECTIONS  
ILLINOIS ROUTE 31**

SCALE: 1"=10'    SHEET NO. 11 OF 12 SHEETS    STA. 117+00.00 TO STA. 117+50.00

|                     |                |                           |              |           |
|---------------------|----------------|---------------------------|--------------|-----------|
| F.A.U. RTE.         | SECTION        | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 3860                | 09-00372-02-PW | MCHENRY                   | 51           | 50        |
| FED. ROAD DIST. NO. |                | ILLINOIS FED. AID PROJECT |              |           |

|              |  |
|--------------|--|
| DATE         |  |
| BY           |  |
| SURVEYED     |  |
| PLOTTED      |  |
| TEMPLATE     |  |
| AREAS        |  |
| CHECKED      |  |
| FINAL SURVEY |  |
| NOTE BOOK    |  |
| NO.          |  |

|                 |  |
|-----------------|--|
| DATE            |  |
| BY              |  |
| SURVEYED        |  |
| PLOTTED         |  |
| TEMPLATE        |  |
| AREAS           |  |
| CHECKED         |  |
| ORIGINAL SURVEY |  |
| NOTE BOOK       |  |
| NO.             |  |



|                            |   |
|----------------------------|---|
| EARTHWORK                  |   |
| REM. & DISP. UNS. MATERIAL | 0 |
| CUT                        | 0 |
| FILL                       | 0 |
| ALL UNITS ARE IN SQ FT     |   |

**118+00.00**

NOTE: FINAL GRADING WILL BE INCLUDED IN THE MAIN CONTRACT.

420 NORTH FRONT STREET, SUITE 100 | MCHENRY, ILLINOIS 60050  
 Phone: 815.365.1778 | Toll Free: 800.728.7600 | Fax: 815.365.1751 | HRGreen.com  
 ILLINOIS PROFESSIONAL DESIGN FIRM #164201327

|                      |                |           |
|----------------------|----------------|-----------|
| USER NAME = tye1ton  | DESIGNED - TAY | REVISED - |
|                      | DRAWN - TAY    | REVISED - |
| PLOT SCALE = 1"=10'  | CHECKED - JLP  | REVISED - |
| PLOT DATE = 8/5/2014 | DATE - 8/5/14  | REVISED - |

**MCHENRY COUNTY  
DIVISION OF TRANSPORTATION**

**CROSS SECTIONS  
ILLINOIS ROUTE 31**

SCALE: 1"=10' SHEET NO. 12 OF 12 SHEETS STA. 118+00.00 TO STA. 118+00.00

|                     |                |         |                           |           |
|---------------------|----------------|---------|---------------------------|-----------|
| F.A.U. RTE.         | SECTION        | COUNTY  | TOTAL SHEETS              | SHEET NO. |
| 3860                | 09-00372-02-PW | MCHENRY | 51                        | 51        |
| FED. ROAD DIST. NO. |                |         | ILLINOIS FED. AID PROJECT |           |
| CONTRACT NO.        |                |         |                           |           |