

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

**PROPOSED  
HIGHWAY PLANS**

FAP 351 (US 6)  
SECTION 537 R-1  
U.S. 45 (96TH AVE /LAGRANGE ROAD) TO 94TH AVE  
INTERSECTION RECONSTRUCTION  
COOK COUNTY  
C-91-068-05

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|--------|--------------|-----------|
| 351         | 537 R-1 | COOK   | 243          | 1         |

CONTRACT # 62880  
D-91-068-05

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION:  
3125(20) MAJOR ARTERIAL 15.73 (JRCP20)  
US RTE 45 ADT: = 42,000(2000); 54,286(2030)  
US RTE 6 ADT: = 44,000(2000); 54,286(2030)

DESIGN SPEED:  
US RTE 45 = 45 MPH  
US RTE 6 = 45 MPH



LOCATION OF SECTION INDICATED THUS: - [black rectangle] -

SEAL

COMPANY:  
McDONOUGH ASSOCIATES, INC.  
130 EAST RANDOLPH SUITE 1000

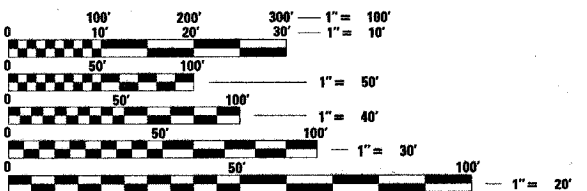
SIGNATURE  
NAME: ALAN R. SWANSON  
EXP. 11/30/2007  
SHEETS: 1-158, 181-246

COMPANY:  
McDONOUGH ASSOCIATES, INC.  
130 EAST RANDOLPH SUITE 1000

SIGNATURE  
KAMIL M. YENICE  
EXP. 11/30/2007  
SHEETS: 159-180

LENGTH OF PROJECT

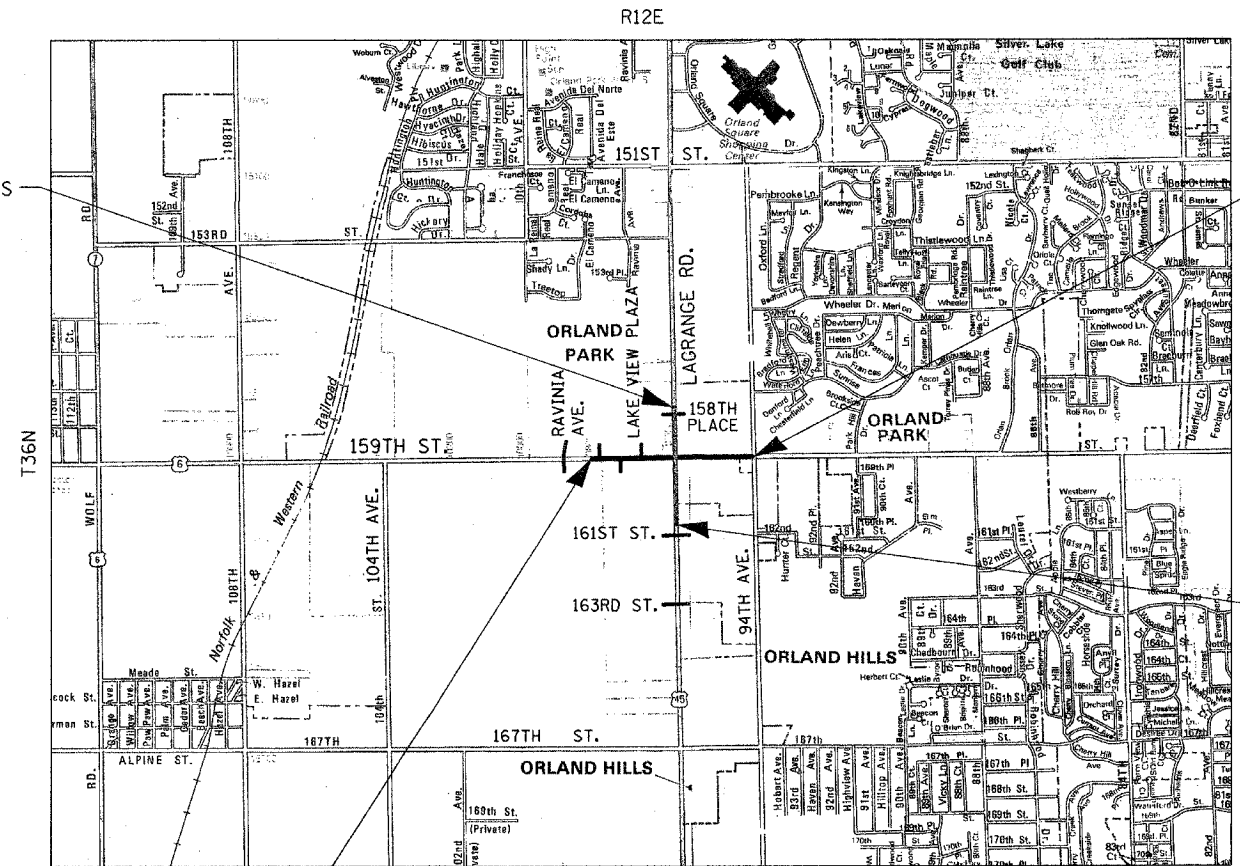
US RTE 45 (LAGRANGE RD.) = 2,361.28 FT = 0.45 MILES  
US RTE 6 (159TH ST.) = 2,635.47 FT = 0.50 MILES  
GROSS LENGTH = 4,996.75 FT = 0.95 MILES  
NET LENGTH = 4,996.75 FT = 0.95 MILES



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  
1-800-892-0123

CONTRACT NO. 62880



ORLAND TOWNSHIP  
LOCATION MAP  
N.T.S.

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION  
DIVISION OF HIGHWAYS

SUBMITTED June 28 20 06

Diane M. O'Keefe/Cul  
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

August 18, 20 06  
Mike Nunez/ED  
ENGINEER OF DESIGN AND ENVIRONMENT

August 18, 20 06  
Milton R. Suss, P.E./ED  
DIRECTOR, DIVISION OF HIGHWAYS

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS

DISTRICT ONE - IDOT CONSULTANT PROJECT MANAGER: KEN ENG (847) 705-4247 - SCHAUMBURG, IL.

|                           |         |                           |              |           |
|---------------------------|---------|---------------------------|--------------|-----------|
| F.A.P. RYE                | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                      | 245          | 2         |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |

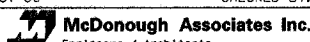
CONTRACT # 62880

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| 000001-04 | STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS  |
| 001001    | AREAS OF REINFORCEMENT BARS  |
| 202001    | EARTH MEDIAN DITCH CHECK   |
| 280001-02 | TEMPORARY EROSION CONTROL SYSTEM   |
| 420001-00 | PAVEMENT JOINTS  |
| 420101-03 | 7.2 M (24') JOINTED PCC PAVEMENT   |
| 420106-03 | 10.8 M (36') JOINTED PCC PAVEMENT  |
| 420111-01 | PCC PAVEMENT ROUNDOUTS   |
| 424001-04 | CURB RAMPS FOR SIDEWALKS   |
| 442201-01 | CLASS C AND D PATCHES  |
| 542101    | REINFORCED CONCRETE END SECTIONS FOR PIPE CULVERTS, 375MM (15") THRU 900 MM (36") DIAMETER AT RIGHT ANGLE WITH ROADWAY         |
| 542116    | REINFORCED CONCRETE END SECTIONS FOR MULTIPLE (2 & 3) PIPE CULVERTS, 375MM (15") THRU 900 MM (36") AT RIGHT ANGLE WITH ROADWAY |
| 542301    | PRECAST REINFORCED CONCRETE FLARED END SECTION   |
| 542306    | PRECAST REINFORCED CONCRETE ELLIPTICAL END SECTION   |
| 542311    | GRATING FOR CONCRETE FLARED END SECTION, FOR 600 (24") THRU (1300) 54" PIPE DIA.   |
| 601001    | SUB-SURFACE DRAINS   |
| 602001    | CATCH BASIN, TYPE A  |
| 602011    | CATCH BASIN, TYPE C  |
| 602301-02 | INLET, TYPE A  |
| 602306-01 | INLET, TYPE B  |
| 602401-01 | MANHOLE, TYPE A  |
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| 602501    | VALVE VAULT, TYPE A  |
| 602601    | FLAT SLAB TOP, PRECAST REINFORCED CONCRETE   |
| 602701-01 | CAST IRON STEPS  |
| 604001-02 | TYPE 1 FRAME AND LIDS  |
| 604036-01 | GRATE, TYPE 8  |
| 604086-01 | FRAME AND GRATE, TYPE 23   |
| 604091-01 | FRAME AND GRATE, TYPE 24   |
| 606001-02 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER  |
| 606301-02 | PC CONCRETE ISLANDS AND MEDIANS  |
| 606306-01 | CORRUGATED PC CONCRETE MEDIANS   |
| 630001-00 | STEEL PLATE BEAM GUARDRAIL   |
| 631011-02 | TRAFFIC BARRIER TERMINAL, TYPE 2   |
| 635001    | DELINEATORS  |
| 635006-02 | REFLECTOR AND TERMINAL MARKER PLACEMENT  |
| 635011-01 | REFLECTOR MARKER AND MOUNTING DETAILS  |
| 667101    | PERMANENT SURVEY MARKERS   |
| 701201-02 | LANE CLOSURE, 2L 2W, DAY ONLY, ON-ROAD TO 600 MM (24") OFF-ROAD, FOR SPEEDS > OR = 45 MPH                                      |
| 701206-01 | LANE CLOSURE, 2L 2W, NIGHT ONLY, ON-ROAD TO 600 MM (24") OFF-ROAD, FOR SPEEDS > OR = 45 MPH                                    |
| 701301-02 | LANE CLOSURE, 2L 2W, SHORT TIME OPERATIONS   |
| 701502-01 | URBAN LANE CLOSURE, 2L 2W, WITH 2W WITH BIDIRECTIONAL LEFT TURN LANE   |
| 701601-04 | URBAN LANE CLOSURE, MULTILANE, 1W OR 2W, WITH NON TRAVERSABLE MEDIAN   |
| 701602-02 | URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE  |
| 701606-04 | URBAN LANE CLOSURE, MULTILANE, 2W, WITH MOUNTABLE MEDIAN   |
| 701701-04 | URBAN LANE CLOSURE, MULTILANE INTERSECTION   |
| 701801-03 | LANE CLOSURE, MULTILANE, 1W OR 2W, CROSSWALK OR SIDEWALK CLOSURE, FOR SPEEDS < 45 MPH  |
| 702001-00 | TRAFFIC CONTROL DEVICES  |
| 704001-02 | TEMPORARY CONCRETE BARRIER   |
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| 729001    | APPLICATION OF TYPE A AND B METAL POSTS  |
| 780001-01 | TYPICAL PAVEMENT MARKINGS  |
| 814001    | CONCRETE HANDHOLES   |
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| 857001    | STANDARD PHASE DESIGNATION DIAGRAMS AND PHASE SEQUENCES  |
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| REVISIONS     |                 | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)                         |
|---------------|-----------------|---|
| NAME          | DATE            |   |
|               |                 | INDEX OF SHEETS<br>AND IDOT HIGHWAY STANDARDS   |
|               |                 |   |
|               |                 |   |
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|               |                 |   |
|               |                 |   |
|               |                 |   |
| SCALE: N/A    | DRAWN BY: JPW   | <br>Engineers / Architects |
| DATE: 7-07-06 | CHECKED BY: RCH |   |

# GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL J.U.L.I.E. (1-800-892-0123) FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES. (48 HOURS NOTIFICATION IS REQUIRED).
2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, MUNICIPALITIES AND ADJACENT CONTRACTORS.
3. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
4. BARRICADES: THE CONTRACTOR SHALL PROVIDE AND INSTALL TWO (2) WEIGHTED SAND BAGS ON EACH TYPE I OR TYPE II BARRICADE USED-ONE (1) WEIGHTED SAND BAG ACROSS EACH BOTTOM RAIL.
5. WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
6. SAWCUTTING WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM BEING REMOVED, UNLESS OTHERWISE SPECIFIED.
7. POROUS GRANULAR EMBANKMENT, SUBGRADE (PGES) HAS BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSUITABLE OR UNSTABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE IDOT STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
8. ANY REFERENCE TO "STANDARD" THROUGHOUT THE PLANS OR SPECIAL PROVISIONS SHALL BE CONSIDERED TO BE THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JANUARY 1, 2002 BY THE STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION, AND "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" DATED MARCH 1, 2005.
9. THE STATION/OFFSET/ELEVATIONS NOTED FOR ALL DRAINAGE STRUCTURES LOCATED IN THE CURB LINE REFER TO THE POSITION OF THE ADJACENT PROPOSED EDGE OF PAVEMENT. THE CONTRACTOR SHALL BE RESPONSIBLE FOR DETERMINING THE OFFSET NECESSARY TO THE STRUCTURES TO SET THE FRAME AND GRATES IN THE PROPER LOCATION. ALL OTHER STRUCTURES ARE DIMENSIONED TO THE CENTER OF THE STRUCTURE; ELEVATION INDICATES RIM GRADES.
10. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING LOCAL AGENCIES MAINTAINING SANITARY SEWERS, WATERMANS, AND STREET LIGHTS TO VERIFY THE MATERIALS AND METHODS ALLOWED FOR ADJUSTMENT, RELOCATION, OR EXTENSION OF THE UTILITY INVOLVED.
11. THE LOCATION AND ELEVATION OF EXISTING UTILITIES ARE APPROXIMATE AND ARE PROVIDED BY THE OWNERS. THE EXACT LOCATIONS AND ELEVATIONS ARE TO BE VERIFIED BY THE CONTRACTOR THROUGH THE OWNER OF THE UTILITY.
12. THE COST OF MAKING STORM SEWER CONNECTIONS TO EXISTING OR PROPOSED SEWER SHALL BE INCIDENTAL TO THE COST OF NEW STORM SEWER BEING INSTALLED.
13. SEWER OR CULVERT TRENCHES CROSSING TRAFFIC LANES SHALL BE TEMPORARILY PATCHED WITH 6 INCHES OF BITUMINOUS BASE COURSE; THE COST OF THE BITUMINOUS BASE COURSE WILL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR THE SEWER OR CULVERT. THIS PRICE SHALL INCLUDE THE COST OF MAINTAINING THE PATCH TO THE SATISFACTION OF THE ENGINEER.
14. THE UNIT PRICE FOR ITEMS USED TO CONSTRUCT TEMPORARY PAVEMENT OR ACCESS ROADS SHALL INCLUDE ALL EQUIPMENT, LABOR AND MATERIAL REQUIRED TO PLACE, REMOVE, AND DISPOSE OF THE TEMPORARY PAVEMENT OR ACCESS ROAD.
15. THE CONTRACTOR SHALL TRANSPLANT SMALLER TREES (3" TO 5" DIAMETER) TO A NEW LOCATION. THESE TREES ARE MARKED TO BE REMOVED AS SHOWN ON THE ATTACHED EXISTING AND PROPOSED PLANS. THE CONTRACTOR SHALL CONTACT A REPRESENTATIVE FROM THE VILLAGE OF ORLAND PARK 48 HOURS PRIOR TO TRANSPLANTING TREES TO DETERMINE NEW PLANTING LOCATIONS.
16. THE "HIGH-EARLY STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)" QUANTITY SHOWN IN THE SUMMARY OF QUANTITIES IS FOR BIDDING PURPOSES ONLY. THIS ITEM SHALL BE USED AT THE DIRECTION OF THE RESIDENT ENGINEER, IF THE TRAFFIC MAINTENANCE REQUIRES ITS APPLICATION.
17. SUFFICIENT DRAINAGE FACILITIES SHALL BE MAINTAINED THROUGHOUT CONSTRUCTION TO FACILITATE SURFACE RUNOFF. WHEN ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DITCHES, GUTTER OR DRAINAGE STRUCTURES SO THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, IT SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION OF THE CONSTRUCTION OPERATIONS ALL DRAINAGE STRUCTURES SO AFFECTED SHALL BE FREE FROM DIRT AND DEBRIS. THE WORK SHALL BE INCLUDED IN THE COST OF FURNISHED EXCAVATION. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PLAN HIS OPERATIONS, WITH THE APPROVAL OF THE ENGINEER IN THE FIELD, SO AS TO UTILIZE THE FACILITIES PROVIDED TO PREVENT LOCAL FLOODING AND INSURE PROPER SURFACE RUNOFF. ANY MINOR DITCH GRADING AS DIRECTED BY THE ENGINEER, NECESSARY TO PROVIDE FOR THE INTERIM DRAINAGE WILL NOT BE PAID FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE FURNISHED EXCAVATION.

BITUMINOUS MIXTURE DESIGN TABLE

| MIXTURE TYPE   | UNIT                      | AC TYPE  | MAX RAP % | AIR VOIDS   | TYPICAL THICKNESS | MIX TYPE   |
|--|---------------------------|----------|-----------|-------------|-------------------|--|
| • TEMPORARY PAVEMENT AND PERMANENT TRANSITION PAVEMENT | SEE SUMMARY OF QUANTITIES | PG 64-22 | 15        | 4% @ 50 GYR | 2"                | BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX "D", N50 |
|  |                           | PG 58-22 | 50        | 2% @ 50 GYR | 8"                | BITUMINOUS BASE COURSE, SUPERPAVE                          |

• SEE SPECIAL PROVISIONS


| E.A.P. RTE.               | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|---------------------------|--------------|-----------|
| 351                       | 537 R-1 | COOK                      | 245          | 3         |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |

CONTRACT # 62880

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD) |
|-----------|------|---|
| NAME      | DATE |   |
|           |      | GENERAL NOTES AND COMMITMENTS   |
|           |      |   |
|           |      |   |
|           |      |   |
|           |      |   |
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|           |      |   |

SCALE: N/A  
DATE: 7-07-06

DRAWN BY: JPW  
CHECKED BY: RCH

 McDonough Associates Inc.  
Engineers / Architects

FILES  
PLACES  
DIMES

|                           |         |               |                  |                  |
|---------------------------|---------|---------------|------------------|------------------|
| F.A.P. RTE.               | SECTION | COUNTY        | TOTAL SHEETS     | SHEET NO.        |
| 351                       | 537 R-1 | COOK          | 245              | 4                |
| STA. _____                |         | TO STA. _____ |                  |                  |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS      | FED. AID PROJECT | CONTRACT # 62880 |

**SUMMARY OF QUANTITIES**

| CODE NUMBER | PAY ITEM  | UNIT  | URBAN TOTAL QUANTITY | CONSTRUCTION TYPE CODE |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
|-------------|---|-------|----------------------|------------------------|--------------------------|-------------------------------|-----------------------------|--------------------------|-------------------------------|----------|------------|----------------|-------------------|----------------|--------------|--------------|--|
|             |   |       |                      | 100% STATE             |                          |                               | 100% VILLAGE                |                          | 98% STATE 5% VILLAGE          |          | 100% STATE |                |                   | 100% VILLAGE   |              | 100% VILLAGE |  |
|             |   |       |                      | ROADWAY                | TRAFFIC SIGNALS US6/US45 | TRAFFIC SIGNALS US45/158+HPL. | TRAFFIC SIGNALS US6/94+HAV. | 100% STATE INTER CONNECT | 100% STATE SIGNAL PRE EMPTION | LIGHTING | WATER MAIN | SANITARY SEWER | VILLAGE LANDSCAPE | RETAINING WALL | NEW SIDEWALK |              |  |
| 20100110    | TREE REMOVAL (6 TO 15 UNITS DIAMETER)                 | UNIT  | 205                  | J000-2A                | Y031-1F                  | Y031-1F                       | Y031-1F                     | Y031-1F                  | Y031-3D                       | Y030-1E  | Y060       | Y060           | Y003              | Y007           | SFTY-1B      |              |  |
| 20100210    | TREE REMOVAL (OVER 15 UNITS DIAMETER)                 | UNIT  | 50                   |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| 20101000    | TEMPORARY FENCE                                       | FOOT  | 100                  |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| * 20101100  | TREE TRUNK PROTECTION                                 | EACH  | 10                   |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| * 20101200  | TREE ROOT PRUNING                                     | EACH  | 20                   |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| 20200100    | EARTH EXCAVATION                                      | CU YD | 15,290               |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| 20201200    | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL           | CU YD | 9,700                |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| 20400800    | FURNISHED EXCAVATION                                  | CU YD | 3,050                |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| 20700420    | POROUS GRANULAR EMBANKMENT, SUBGRADE                  | CU YD | 8,885                |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| 20800150    | TRENCH BACKFILL                                       | CU YD | 4,722                |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| * 21101625  | TOPSOIL-FURNISH AND PLACE 6"                          | SQ YD | 15,971               |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| * 25000110  | SEEDING, CLASS 1A                                     | ACRE  | 3.50                 |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| * 25000400  | NITROGEN FERTILIZER NUTRIENT                          | POUND | 335                  |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| * 25000500  | PHOSPHOROUS FERTILIZER NUTRIENT                       | POUND | 335                  |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| * 25000600  | POTASSIUM FERTILIZER NUTRIENT                         | POUND | 335                  |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| 25000750    | MOWING  | ACRE  | 3.50                 |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| * 25100630  | EROSION CONTROL BLANKET                               | SQ YD | 230                  |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| * 25200200  | SUPPLEMENTAL WATERING                                 | UNIT  | 180.0                |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| * 25301700  | SHRUBS  | EACH  | 818                  |                        |                          |                               |                             |                          |                               |          |            |                |                   | 818            |              |              |  |
| * 25400105  | PERENNIAL PLANTS                                      | EACH  | 11,950               |                        |                          |                               |                             |                          |                               |          |            |                |                   | 11,950         |              |              |  |
| 28000300    | TEMPORARY DITCH CHECKS                                | EACH  | 4                    |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| 28000510    | INLET FILTERS   | EACH  | 73                   |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| * 28000600  | SEEDING, CLASS 7                                      | ACRE  | 0.50                 |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| 28100109    | STONE RIPRAP CLASS A5                                 | SQ YD | 150                  |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| 40600980    | BITUMINOUS SURFACE REMOVAL - BUTT JOINT               | SQ YD | 360                  |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |
| 40600985    | PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT | SQ YD | 360                  |                        |                          |                               |                             |                          |                               |          |            |                |                   |                |              |              |  |

\*SPECIALTY ITEMS

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD) |
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**SUMMARY OF QUANTITIES**

SCALE: N/A      DRAWN BY: BFH  
DATE: 7-07-06      CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

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**SUMMARY OF QUANTITIES**

| CODE NUMBER | PAY ITEM   | UNIT  | URBAN TOTAL QUANTITY | CONSTRUCTION TYPE CODE |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
|-------------|--|-------|----------------------|------------------------|--------------------------|--------------------------------|------------------------------|--------------------------|---------------------------------|--------------|------------|----------------|-------------------|----------------|--------------------------------|---------|
|             |  |       |                      | 100% STATE             |                          | 100% VILLAGE                   |                              | 95% STATE 5% VILLAGE     |                                 | 100% VILLAGE |            |                |                   |                |                                |         |
|             |  |       |                      | ROADWAY                | TRAFFIC SIGNALS US6/US45 | TRAFFIC SIGNALS US45/158+thPL. | TRAFFIC SIGNALS US6/94+thAV. | 100% STATE INTER CONNECT | 100% VILLAGE SIGNAL PRE EMPTION | LIGHTING     | WATER MAIN | SANITARY SEWER | VILLAGE LANDSCAPE | RETAINING WALL | 50% STATE 50% VILLAGE SIDEWALK |         |
| 40600990    | TEMPORARY RAMP   | SQ YD | 360                  | J000-2A                | Y031-1F                  | Y031-1F                        | Y031-1F                      | Y031-1F                  | Y031-1F                         | Y031-3D      | Y030-1E    | Y060           | Y060              | Y003           | Y007                           | SFTY-1B |
| 42000301    | PORTLAND CEMENT CONCRETE PAVEMENT 8" (JOINTED)   | SQ YD | 1,171                | 1,171                  |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 42000501    | PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)  | SQ YD | 44,674               | 44,674                 |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 42001300    | PROTECTIVE COAT  | SQ YD | 10,002               | 10,002                 |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 42300400    | PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH   | SQ YD | 2,622                | 2,622                  |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 42400200    | PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH   | SQ FT | 56655                | 36833                  |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                | 19,822  |
| 44000100    | PAVEMENT REMOVAL   | SQ YD | 38,269               | 38,269                 |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 44000200    | DRIVEWAY PAVEMENT REMOVAL  | SQ YD | 8,406                | 8,406                  |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 44000300    | CURB REMOVAL   | FOOT  | 5,281                | 5,281                  |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 44000500    | COMBINATION CURB AND GUTTER REMOVAL  | FOOT  | 16,378               | 16,378                 |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 44000600    | SIDEWALK REMOVAL   | SQ FT | 25,536               | 25,536                 |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 44001700    | COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT                                 | FOOT  | 837                  | 837                    |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 44003100    | MEDIAN REMOVAL   | SQ FT | 30,556               | 30,556                 |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 50901105    | STEEL RAILING  | FOOT  | 1,242                |                        |                          |                                |                              |                          |                                 |              |            |                |                   |                | 1,242                          |         |
| 55019500    | STORM SEWERS, TYPE 1, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS IV 12" | FOOT  | 397                  | 397                    |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 55021600    | STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 12 | FOOT  | 2,582                | 2,582                  |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 55021700    | STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 15 | FOOT  | 752                  | 752                    |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 55021800    | STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 18 | FOOT  | 903                  | 903                    |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 55021900    | STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 21 | FOOT  | 268                  | 268                    |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 55022000    | STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 24 | FOOT  | 737                  | 737                    |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 55022200    | STORM SEWERS, TYPE 2, REINFORCED CONCRETE CULVERT, STORM DRAIN, AND SEWER PIPE, CLASS III 30 | FOOT  | 764                  | 764                    |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 55100500    | STORM SEWER REMOVAL 12"  | FOOT  | 2,313                | 2,313                  |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 55100700    | STORM SEWER REMOVAL 15"  | FOOT  | 970                  | 970                    |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 55100900    | STORM SEWER REMOVAL 18"  | FOOT  | 452                  | 452                    |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 55101200    | STORM SEWER REMOVAL 24"  | FOOT  | 1,632                | 1,632                  |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |
| 55101300    | STORM SEWER REMOVAL 27"  | FOOT  | 19                   | 19                     |                          |                                |                              |                          |                                 |              |            |                |                   |                |                                |         |

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

**SUMMARY OF QUANTITIES**

SCALE: N/A  
 DATE: 7-07-06

DRAWN BY: BFH  
 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects

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SUMMARY OF QUANTITIES

| CODE NUMBER | PAY ITEM  | UNIT    | URBAN TOTAL QUANTITY | CONSTRUCTION TYPE CODE |                          |                               |                             |                          |                                 |          |            |                |                   |       |                |              |
|-------------|---|---------|----------------------|------------------------|--------------------------|-------------------------------|-----------------------------|--------------------------|---------------------------------|----------|------------|----------------|-------------------|-------|----------------|--------------|
|             |   |         |                      | 100% STATE             |                          |                               | 100% VILLAGE                |                          | 95% STATE                       |          | 5% VILLAGE |                | 100% VILLAGE      |       | RETAINING WALL | NEW SIDEWALK |
|             |   |         |                      | ROADWAY                | TRAFFIC SIGNALS US6/US45 | TRAFFIC SIGNALS US45/158thPL. | TRAFFIC SIGNALS US6/94thAV. | 100% STATE INTER CONNECT | 100% VILLAGE SIGNAL PRE EMPTION | LIGHTING | WATER MAIN | SANITARY SEWER | VILLAGE LANDSCAPE |       |                |              |
| J000-2A     | Y031-1F   | Y031-1F | Y031-1F              | Y031-1F                | Y031-3D                  | Y030-1E                       | Y060                        | Y060                     | Y003                            | Y007     | SFTY-1B    |                |                   |       |                |              |
| * 56103000  | DUCTILE IRON WATER MAIN 6"                                  | FOOT    | 70                   |                        |                          |                               |                             |                          |                                 |          |            | 70             |                   |       |                |              |
| * 56103100  | DUCTILE IRON WATER MAIN 8"                                  | FOOT    | 1,072                |                        |                          |                               |                             |                          |                                 |          |            | 1,072          |                   |       |                |              |
| * 56103200  | DUCTILE IRON WATER MAIN 10"                                 | FOOT    | 15                   |                        |                          |                               |                             |                          |                                 |          |            | 15             |                   |       |                |              |
| * 56103300  | DUCTILE IRON WATER MAIN 12"                                 | FOOT    | 262                  |                        |                          |                               |                             |                          |                                 |          |            | 262            |                   |       |                |              |
| * 56103400  | DUCTILE IRON WATER MAIN 16"                                 | FOOT    | 1,362                |                        |                          |                               |                             |                          |                                 |          |            | 1,362          |                   |       |                |              |
| * 56105760  | BUTTERFLY VALVES 16"  | EACH    | 2                    |                        |                          |                               |                             |                          |                                 |          |            | 2              |                   |       |                |              |
| * 56300300  | ADJUSTING WATER SERVICE LINES                               | FOOT    | 500                  |                        |                          |                               |                             |                          |                                 |          |            | 500            |                   |       |                |              |
| * 56400300  | FIRE HYDRANTS TO BE ADJUSTED                                | EACH    | 2                    |                        |                          |                               |                             |                          |                                 |          |            | 2              |                   |       |                |              |
| * 56400400  | FIRE HYDRANTS TO BE RELOCATED                               | EACH    | 11                   |                        |                          |                               |                             |                          |                                 |          |            | 11             |                   |       |                |              |
| * 56400500  | FIRE HYDRANTS TO BE REMOVED                                 | EACH    | 12                   |                        |                          |                               |                             |                          |                                 |          |            | 12             |                   |       |                |              |
| * 56400820  | FIRE HYDRANT WITH AUXILIARY VALVE AND VALVE BOX             | EACH    | 3                    |                        |                          |                               |                             |                          |                                 |          |            | 3              |                   |       |                |              |
| 60107600    | PIPE UNDERDRAINS, 4"  | FOOT    | 3,230                |                        |                          |                               |                             |                          |                                 |          |            |                |                   | 3,230 |                |              |
| 60200805    | CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE             | EACH    | 7                    | 7                      |                          |                               |                             |                          |                                 |          |            |                |                   |       |                |              |
| 60201330    | CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 23 FRAME AND GRATE  | EACH    | 13                   | 13                     |                          |                               |                             |                          |                                 |          |            |                |                   |       |                |              |
| 60201340    | CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE  | EACH    | 70                   | 70                     |                          |                               |                             |                          |                                 |          |            |                |                   |       |                |              |
| 60207605    | CATCH BASINS, TYPE C, TYPE 8 GRATE                          | EACH    | 2                    | 2                      |                          |                               |                             |                          |                                 |          |            |                |                   |       |                |              |
| 60208240    | CATCH BASINS, TYPE C, TYPE 24 FRAME AND GRATE               | EACH    | 2                    | 2                      |                          |                               |                             |                          |                                 |          |            |                |                   |       |                |              |
| 60218400    | MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID     | EACH    | 22                   | 22                     |                          |                               |                             |                          |                                 |          |            |                |                   |       |                |              |
| 60221100    | MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID     | EACH    | 17                   | 17                     |                          |                               |                             |                          |                                 |          |            |                |                   |       |                |              |
| 60223800    | MANHOLES, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID     | EACH    | 1                    | 1                      |                          |                               |                             |                          |                                 |          |            |                |                   |       |                |              |
| 60237470    | INLETS, TYPE A, TYPE 24 FRAME AND GRATE                     | EACH    | 2                    | 2                      |                          |                               |                             |                          |                                 |          |            |                |                   |       |                |              |
| 60248000    | JUNCTION CHAMBER NO.1                                       | EACH    | 1                    | 1                      |                          |                               |                             |                          |                                 |          |            |                |                   |       |                |              |
| 60248100    | JUNCTION CHAMBER NO. 2                                      | EACH    | 1                    | 1                      |                          |                               |                             |                          |                                 |          |            |                |                   |       |                |              |
| 60248700    | VALVE VAULTS, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH    | 2                    |                        |                          |                               |                             |                          |                                 |          |            | 2              |                   |       |                |              |
| 60248900    | VALVE VAULTS, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH    | 7                    |                        |                          |                               |                             |                          |                                 |          |            | 7              |                   |       |                |              |
| 60250200    | CATCH BASINS TO BE ADJUSTED                                 | EACH    | 2                    | 2                      |                          |                               |                             |                          |                                 |          |            |                |                   |       |                |              |

\*SPECIALTY ITEMS

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SUMMARY OF QUANTITIES

SCALE: N/A  
 DATE: 7-07-06

DRAWN BY: BFH  
 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects

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SUMMARY OF QUANTITIES

100% STATE      100% VILLAGE      95% STATE 5% VILLAGE      100% VILLAGE

| CODE NUMBER | PAY ITEM  | UNIT   | URBAN TOTAL QUANTITY | CONSTRUCTION TYPE CODE |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
|-------------|---|--------|----------------------|------------------------|--------------------------|-------------------------------|-----------------------------|--------------------------|---------------------------------|----------|------------|----------------|-------------------|----------------|------------------------------------|--|--|
|             |   |        |                      | ROADWAY                | TRAFFIC SIGNALS US6/US45 | TRAFFIC SIGNALS US45/158thPL. | TRAFFIC SIGNALS US6/94thAV. | 100% STATE INTER CONNECT | 100% VILLAGE SIGNAL PRE EMPTION | LIGHTING | WATER MAIN | SANITARY SEWER | VILLAGE LANDSCAPE | RETAINING WALL | 50% STATE 50% VILLAGE NEW SIDEWALK |  |  |
| 60252800    | CATCH BASINS TO BE RECONSTRUCTED                  | EACH   | 2                    | 2                      |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60255500    | MANHOLES TO BE ADJUSTED                           | EACH   | 2                    | 2                      |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60257900    | MANHOLES TO BE RECONSTRUCTED                      | EACH   | 1                    | 1                      |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60260050    | SANITARY MANHOLES TO BE RECONSTRUCTED             | EACH   | 2                    |                        |                          |                               |                             |                          |                                 |          |            |                |                   | 2              |                                    |  |  |
| 60265700    | VALVE VAULTS TO BE ADJUSTED                       | EACH   | 19                   | 19                     |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60266500    | VALVE VAULTS TO BE REMOVED                        | EACH   | 7                    | 3                      |                          |                               |                             |                          |                                 |          |            | 4              |                   |                |                                    |  |  |
| 60500040    | REMOVING MANHOLES                                 | EACH   | 20                   | 20                     |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60500050    | REMOVING CATCH BASINS                             | EACH   | 55                   | 55                     |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60500705    | CATCH BASINS TO BE FILLED TO MAINTAIN FLOW        | EACH   | 2                    | 2                      |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60600605    | CONCRETE CURB, TYPE B                             | FOOT   | 2128                 | 2128                   |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60603800    | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12 | FOOT   | 482                  | 482                    |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60604400    | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18 | FOOT   | 6823                 | 6823                   |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60605000    | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 | FOOT   | 10106                | 10106                  |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60608300    | COMBINATION CONCRETE CURB AND GUTTER, TYPE M-2.12 | FOOT   | 1416                 | 1416                   |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60618300    | CONCRETE MEDIAN SURFACE, 4 INCH                   | SQ FT  | 22,897               | 22,897                 |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60619600    | CONCRETE MEDIAN, TYPE SB-6.12                     | SQ FT  | 1,964                | 1,964                  |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60619910    | CONCRETE MEDIAN, TYPE SB-6.18                     | SQ FT  | 6,433                | 6,433                  |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 60622800    | CONCRETE MEDIAN, TYPE SM-6.12                     | SQ FT  | 1,736                | 1,736                  |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| * 63000000  | STEEL PLATE BEAM GUARD RAIL, TYPE A               | FOOT   | 337.5                | 337.5                  |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| * 63200305  | STEEL PLATE BEAM GUARD RAIL REMOVAL               | FOOT   | 25.0                 | 25.0                   |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 67000400    | ENGINEER'S FIELD OFFICE TYPE A                    | CAL MO | 12                   | 12                     |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 67100100    | MOBILIZATION                                      | L SUM  | 1                    | 1                      |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 70101800    | TRAFFIC CONTROL AND PROTECTION (SPECIAL)          | L SUM  | 1                    | 1                      |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 70103815    | TRAFFIC CONTROL SURVEILLANCE                      | CAL DA | 360                  | 360                    |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 70300240    | TEMPORARY PAVEMENT MARKING - LINE 6"              | FOOT   | 2,310                | 2,310                  |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |
| 70301000    | WORK ZONE PAVEMENT MARKING REMOVAL                | SO FT  | 34,008               | 34,008                 |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |  |  |

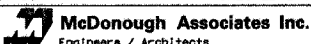
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SUMMARY OF QUANTITIES

SCALE: N/A      DRAWN BY: BFH  
DATE: 7-07-06      CHECKED BY: RCH

 McDonough Associates Inc.  
Engineers / Architects


Rev.

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### SUMMARY OF QUANTITIES

| CODE NUMBER | PAY ITEM   | UNIT  | URBAN TOTAL QUANTITY | CONSTRUCTION TYPE CODE |                          |                               |                             |                          |                                 |            |            |                |                   |                |                                    |         |
|-------------|--|-------|----------------------|------------------------|--------------------------|-------------------------------|-----------------------------|--------------------------|---------------------------------|------------|------------|----------------|-------------------|----------------|------------------------------------|---------|
|             |  |       |                      | 100% STATE             |                          | 100% VILLAGE                  |                             | 95% STATE 5% VILLAGE     |                                 | 100% STATE |            | 100% VILLAGE   |                   | 100% VILLAGE   |                                    |         |
|             |  |       |                      | ROADWAY                | TRAFFIC SIGNALS US6/US45 | TRAFFIC SIGNALS US45/158+HPL. | TRAFFIC SIGNALS US6/94+HAV. | 100% STATE INTER CONNECT | 100% VILLAGE SIGNAL PRE EMPTION | LIGHTING   | WATER MAIN | SANITARY SEWER | VILLAGE LANDSCAPE | RETAINING WALL | 50% STATE 50% VILLAGE NEW SIDEWALK |         |
| * 70400100  | TEMPORARY CONCRETE BARRIER                             | FOOT  | 2,310                | J000-2A                | Y031-1F                  | Y031-1F                       | Y031-1F                     | Y031-1F                  | Y031-1F                         | Y031-3D    | Y030-1E    | Y060           | Y060              | Y003           | Y007                               | SFTY-1B |
| * 70400200  | RELOCATE <sup>TEMPORARY</sup> CONCRETE BARRIER         | FOOT  | 1,790                |                        |                          |                               |                             |                          |                                 |            |            |                |                   |                |                                    |         |
| * 72000100  | SIGN PANEL - TYPE 1                                    | SQ FT | 93                   |                        | 40                       | 38                            | 15                          |                          |                                 |            |            |                |                   |                |                                    |         |
| * 72000200  | SIGN PANEL - TYPE 2                                    | SQ FT | 120                  |                        | 120                      |                               |                             |                          |                                 |            |            |                |                   |                |                                    |         |
| * 78008200  | POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS | SQ FT | 1,128                |                        | 1,128                    |                               |                             |                          |                                 |            |            |                |                   |                |                                    |         |
| * 78008210  | POLYUREA PAVEMENT MARKING TYPE I - LINE 4"             | FOOT  | 3,006                |                        | 3,006                    |                               |                             |                          |                                 |            |            |                |                   |                |                                    |         |
| * 78008230  | POLYUREA PAVEMENT MARKING TYPE I - LINE 6"             | FOOT  | 19,396               |                        | 19,396                   |                               |                             |                          |                                 |            |            |                |                   |                |                                    |         |
| * 78008240  | POLYUREA PAVEMENT MARKING TYPE I - LINE 8"             | FOOT  | 506                  |                        | 506                      |                               |                             |                          |                                 |            |            |                |                   |                |                                    |         |
| * 78008250  | POLYUREA PAVEMENT MARKING TYPE I - LINE 12"            | FOOT  | 34                   |                        | 34                       |                               |                             |                          |                                 |            |            |                |                   |                |                                    |         |
| * 78008270  | POLYUREA PAVEMENT MARKING TYPE I - LINE 24"            | FOOT  | 482                  |                        | 482                      |                               |                             |                          |                                 |            |            |                |                   |                |                                    |         |
| * 78100100  | RAISED REFLECTIVE PAVEMENT MARKER                      | EACH  | 396                  |                        | 396                      |                               |                             |                          |                                 |            |            |                |                   |                |                                    |         |
| * 78200100  | MONODIRECTIONAL PRISMATIC BARRIER REFLECTOR            | EACH  | 92                   |                        | 92                       |                               |                             |                          |                                 |            |            |                |                   |                |                                    |         |
| * 78300100  | PAVEMENT MARKING REMOVAL                               | SQ FT | 11,890               |                        | 11,890                   |                               |                             |                          |                                 |            |            |                |                   |                |                                    |         |
| * 80400100  | ELECTRIC SERVICE INSTALLATION                          | EACH  | 1                    |                        |                          |                               |                             |                          |                                 |            |            | 1              |                   |                |                                    |         |
| * 80400200  | ELECTRIC UTILITY SERVICE CONNECTION                    | L SUM | 1                    |                        |                          |                               |                             |                          |                                 |            |            | 1              |                   |                |                                    |         |
| * 80700140  | GROUND ROD, 5/8" DIA. X 10 FT.                         | EACH  | 137                  |                        |                          |                               |                             |                          |                                 |            |            | 137            |                   |                |                                    |         |
| * 80800500  | TEMPORARY WOOD POLE, 60 FT., CLASS 4                   | EACH  | 2                    |                        |                          |                               |                             |                          |                                 |            |            | 2              |                   |                |                                    |         |
| * 81000600  | CONDUIT IN TRENCH, 2" DIA., GALVANIZED STEEL           | FOOT  | 5,236                |                        | 937                      | 562                           | 209                         | 3,498                    |                                 |            | 30         |                |                   |                |                                    |         |
| * 81000700  | CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL       | FOOT  | 69                   |                        | 61                       |                               | 8                           |                          |                                 |            |            |                |                   |                |                                    |         |
| * 81000800  | CONDUIT IN TRENCH, 3" DIA., GALVANIZED STEEL           | FOOT  | 101                  |                        | 53                       | 20                            | 28                          |                          |                                 |            |            |                |                   |                |                                    |         |
| * 81000900  | CONDUIT IN TRENCH, 3 1/2" DIA., GALVANIZED STEEL       | FOOT  | 13                   |                        |                          | 13                            |                             |                          |                                 |            |            |                |                   |                |                                    |         |
| * 81001000  | CONDUIT IN TRENCH, 4" DIA., GALVANIZED STEEL           | FOOT  | 30                   |                        | 10                       | 10                            | 10                          |                          |                                 |            |            |                |                   |                |                                    |         |
| * 81018500  | CONDUIT PUSHED, 2" DIA., GALVANIZED STEEL              | FOOT  | 1,125                |                        | 447                      | 137                           | 197                         | 344                      |                                 |            |            |                |                   |                |                                    |         |
| * 81018900  | CONDUIT PUSHED, 4" DIA., GALVANIZED STEEL              | FOOT  | 4,324                |                        | 624                      | 491                           | 484                         |                          |                                 |            | 2,725      |                |                   |                |                                    |         |
| * 81400100  | HANDHOLE   | EACH  | 18                   |                        | 6                        | 4                             | 3                           | 5                        |                                 |            |            |                |                   |                |                                    |         |
| * 81400200  | HEAVY-DUTY HANDHOLE                                    | EACH  | 9                    |                        | 4                        | 4                             | 1                           |                          |                                 |            |            |                |                   |                |                                    |         |

\*SPECIALTY ITEMS

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)   |
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| NAME      | DATE |   |
|           |      | <b>SUMMARY OF QUANTITIES</b><br><br>SCALE: N/A<br>DATE: 7-07-06<br>DRAWN BY: BFH<br>CHECKED BY: RCH<br> <b>McDonough Associates Inc.</b><br>Engineers / Architects |
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### SUMMARY OF QUANTITIES

| CODE NUMBER | PAY ITEM   | UNIT | URBAN TOTAL QUANTITY | 100% STATE             |                          | 95% STATE 5% VILLAGE          |                             | 100% VILLAGE             |                                 |          |            |                |                   |                |                                    |
|-------------|--|------|----------------------|------------------------|--------------------------|-------------------------------|-----------------------------|--------------------------|---------------------------------|----------|------------|----------------|-------------------|----------------|------------------------------------|
|             |  |      |                      | ROADWAY                | TRAFFIC SIGNALS US6/US45 | TRAFFIC SIGNALS US45/158thPL. | TRAFFIC SIGNALS US6/94thAV. | 100% STATE INTER CONNECT | 100% VILLAGE SIGNAL PRE EMPTION | LIGHTING | WATER MAIN | SANITARY SEWER | VILLAGE LANDSCAPE | RETAINING WALL | 50% STATE 50% VILLAGE NEW SIDEWALK |
|             |  |      |                      | CONSTRUCTION TYPE CODE |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |
|             |  |      |                      | J000-2A                | Y031-1F                  | Y031-1F                       | Y031-1F                     | Y031-1F                  | Y031-3D                         | Y030-1E  | Y060       | Y060           | Y003              | Y007           | SFTY-1B                            |
| * 81400300  | DOUBLE HANDHOLE  | EACH | 6                    |                        | 2                        | 2                             | 2                           |                          |                                 |          |            |                |                   |                |                                    |
| * 81500200  | TRENCH AND BACKFILL FOR ELECTRICAL WORK                            | FOOT | 14,138               |                        | 1056                     | 587                           | 250                         | 3,679                    |                                 | 8,566    |            |                |                   |                |                                    |
| * 81701345  | ELECTRIC CABLE IN CONDUIT, 600V (EPR-TYPE USE) 3-1/C NO. 3/0       | FOOT | 55                   |                        |                          |                               |                             |                          |                                 | 55       |            |                |                   |                |                                    |
| * 81800300  | AERIAL CABLE, 3-1/C NO. 2, WITH MESSENGER WIRE                     | FOOT | 6,885                |                        |                          |                               |                             |                          |                                 | 6,885    |            |                |                   |                |                                    |
| * 82106400  | LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT (INSTALL ONLY) | EACH | 55                   |                        |                          |                               |                             |                          |                                 | 55       |            |                |                   |                |                                    |
| * 83050810  | LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM               | EACH | 13                   |                        |                          |                               |                             |                          |                                 | 13       |            |                |                   |                |                                    |
| * 83600200  | LIGHT POLE FOUNDATION, 24" DIAMETER                                | FOOT | 600                  |                        |                          |                               |                             |                          |                                 | 600      |            |                |                   |                |                                    |
| * 84100110  | REMOVAL OF TEMPORARY LIGHTING UNITS                                | EACH | 78                   |                        |                          |                               |                             |                          |                                 | 78       |            |                |                   |                |                                    |
| * 84200500  | REMOVAL OF EXISTING LIGHTING UNIT, SALVAGE                         | EACH | 55                   |                        |                          |                               |                             |                          |                                 | 55       |            |                |                   |                |                                    |
| * 84200700  | LIGHTING FOUNDATION REMOVAL  | EACH | 5                    |                        |                          |                               |                             |                          |                                 | 5        |            |                |                   |                |                                    |
| * 84200705  | LIGHTING FOUNDATION REMOVAL, PARTIAL                               | EACH | 55                   |                        |                          |                               |                             |                          |                                 | 55       |            |                |                   |                |                                    |
| * 84400105  | RELOCATE EXISTING LIGHTING UNIT                                    | EACH | 5                    |                        |                          |                               |                             |                          |                                 | 5        |            |                |                   |                |                                    |
| * 84500110  | REMOVAL OF LIGHTING CONTROLLER                                     | EACH | 1                    |                        |                          |                               |                             |                          |                                 | 1        |            |                |                   |                |                                    |
| * 84500120  | REMOVAL OF ELECTRIC SERVICE INSTALLATION                           | EACH | 2                    |                        |                          |                               |                             |                          |                                 | 2        |            |                |                   |                |                                    |
| * 84500130  | REMOVAL OF LIGHTING CONTROLLER FOUNDATION                          | EACH | 1                    |                        |                          |                               |                             |                          |                                 | 1        |            |                |                   |                |                                    |
| * 85700200  | FULL-ACTUATED CONTROLLER AND TYPE IV CABINET                       | EACH | 2                    |                        |                          | 1                             | 1                           |                          |                                 |          |            |                |                   |                |                                    |
| * 85700305  | FULL-ACTUATED CONTROLLER AND TYPE V CABINET, SPECIAL               | EACH | 1                    |                        | 1                        |                               |                             |                          |                                 |          |            |                |                   |                |                                    |
| * 86400100  | TRANSCEIVER - FIBER OPTIC  | EACH | 3                    |                        | 1                        | 1                             | 1                           |                          |                                 |          |            |                |                   |                |                                    |
| * 87301215  | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 2C                        | FOOT | 1,756                |                        | 1052                     | 704                           |                             |                          |                                 |          |            |                |                   |                |                                    |
| * 87301225  | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C                        | FOOT | 6,160                |                        | 2929                     | 2415                          | 816                         |                          |                                 |          |            |                |                   |                |                                    |
| * 87301245  | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C                        | FOOT | 7,720                |                        | 4004                     | 2822                          | 894                         |                          |                                 |          |            |                |                   |                |                                    |
| * 87301255  | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C                        | FOOT | 6,017                |                        | 1989                     | 1382                          | 2646                        |                          |                                 |          |            |                |                   |                |                                    |
| * 87301305  | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR                  | FOOT | 12,584               |                        | 3997                     | 4702                          | 3885                        |                          |                                 |          |            |                |                   |                |                                    |
| * 87301805  | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C                      | FOOT | 119                  |                        | 46                       | 51                            | 22                          |                          |                                 |          |            |                |                   |                |                                    |
| * 87700150  | STEEL MAST ARM ASSEMBLY AND POLE, 22 FT.                           | EACH | 2                    |                        | 2                        |                               |                             |                          |                                 |          |            |                |                   |                |                                    |
| * 87700180  | STEEL MAST ARM ASSEMBLY AND POLE, 28 FT.                           | EACH | 1                    |                        | 1                        |                               |                             |                          |                                 |          |            |                |                   |                |                                    |


\* SPECIALTY ITEMS

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

### SUMMARY OF QUANTITIES

SCALE: N/A      DRAWN BY: BFH  
DATE: 7-07-06      CHECKED BY: RCH

 **McDonough Associates Inc.**  
Engineers / Architects

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SUMMARY OF QUANTITIES

100% STATE      100% VILLAGE      95% STATE      5% VILLAGE      100% VILLAGE

| CODE NUMBER | PAY ITEM   | UNIT | URBAN TOTAL QUANTITY | CONSTRUCTION TYPE CODE |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    |    |  |
|-------------|--|------|----------------------|------------------------|--------------------------|-------------------------------|-----------------------------|--------------------------|---------------------------------|----------|------------|----------------|-------------------|----------------|------------------------------------|----|--|
|             |  |      |                      | ROADWAY                | TRAFFIC SIGNALS US6/US45 | TRAFFIC SIGNALS US45/158thPL. | TRAFFIC SIGNALS US6/94thAV. | 100% STATE INTER CONNECT | 100% VILLAGE SIGNAL PRE EMPTION | LIGHTING | WATER MAIN | SANITARY SEWER | VILLAGE LANDSCAPE | RETAINING WALL | 50% STATE 50% VILLAGE NEW SIDEWALK |    |  |
| * 87700190  | STEEL MAST ARM ASSEMBLY AND POLE, 30 FT.   | EACH | 1                    |                        | 1                        |                               |                             |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 87700290  | STEEL MAST ARM ASSEMBLY AND POLE, 50 FT.   | EACH | 1                    |                        |                          | 1                             |                             |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 87700300  | STEEL MAST ARM ASSEMBLY AND POLE, 52 FT.   | EACH | 1                    |                        | 1                        |                               |                             |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 87700320  | STEEL MAST ARM ASSEMBLY AND POLE, 55 FT.   | EACH | 4                    |                        | 3                        | 1                             |                             |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 87702290  | STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 24 FT. AND 32 FT.                                | EACH | 1                    |                        |                          |                               | 1                           |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 87800200  | CONCRETE FOUNDATION, TYPE D  | FOOT | 12                   |                        | 4                        | 4                             | 4                           |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 87800400  | CONCRETE FOUNDATION, TYPE E 30-INCH DIAMETER   | FOOT | 45                   |                        | 45                       |                               |                             |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 87800415  | CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER   | FOOT | 171                  |                        | 71                       | 52                            | 48                          |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 87900200  | DRILL EXISTING HANDHOLE  | EACH | 8                    |                        |                          |                               | 7                           | 1                        |                                 |          |            |                |                   |                |                                    |    |  |
| * 88200100  | TRAFFIC SIGNAL BACKPLATE   | EACH | 50                   |                        | 20                       | 14                            | 16                          |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 88500100  | INDUCTIVE LOOP DETECTOR  | EACH | 40                   |                        | 14                       | 12                            | 14                          |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 88600100  | DETECTOR LOOP, TYPE 1  | FOOT | 470                  |                        |                          |                               | 470                         |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 88700200  | LIGHT DETECTOR   | EACH | 10                   |                        |                          |                               |                             |                          | 10                              |          |            |                |                   |                |                                    |    |  |
| * 88700300  | LIGHT DETECTOR AMPLIFIER   | EACH | 2                    |                        |                          |                               |                             |                          | 2                               |          |            |                |                   |                |                                    |    |  |
| * 88800100  | PEDESTRIAN PUSH-BUTTON   | EACH | 9                    |                        | 5                        | 4                             |                             |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 89000100  | TEMPORARY TRAFFIC SIGNAL INSTALLATION  | EACH | 3                    |                        | 1                        | 1                             | 1                           |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 89502300  | REMOVE ELECTRIC CABLE FROM CONDUIT   | FOOT | 14,165               |                        |                          |                               | 2977                        | 11,188                   |                                 |          |            |                |                   |                |                                    |    |  |
| * 89502375  | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT   | EACH | 3                    |                        | 1                        | 1                             | 1                           |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 89502380  | REMOVE EXISTING HANDHOLE   | EACH | 26                   |                        | 12                       | 10                            | 4                           |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * 89502385  | REMOVE EXISTING CONCRETE FOUNDATION  | EACH | 26                   |                        | 9                        | 8                             | 9                           |                          |                                 |          |            |                |                   |                |                                    |    |  |
| * A2000120  | TREE, ACER X FREEMANII AUTUMN BLAZE (AUTUMN BLAZE FREEMAN MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED | EACH | 1                    |                        |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    | 1  |  |
| * A2000320  | TREE, ACER MIYABEI MORTON (STATE STREET MIYABE MAPLE), 2-1/2" CALIPER, BALLED AND BURLAPPED            | EACH | 18                   |                        |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    | 18 |  |
| * A2001818  | TREE, ACER SACCHARUM GREEN MOUNTAIN (GREEN MOUNTAIN SUGAR MAPLE), 2-1/4" CALIPER, BALLED AND BURLAPPED | EACH | 34                   |                        |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    | 34 |  |
| * A2002520  | TREE, CARPINUS CAROLINIANA (AMERICAN HORNBEAM), 2-1/2" CALIPER, BALLED AND BURLAPPED                   | EACH | 15                   |                        |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    | 15 |  |
| * A2003120  | TREE, CELTIS OCCIDENTALIS WINDY CITY (WINDY CITY HACKBERRY), 2-1/2" CALIPER, BALLED AND BURLAPPED      | EACH | 6                    |                        |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    | 6  |  |
| * A2005020  | TREE, GYMNOCLADUS DIOICUS (KENTUCKY COFFEETREE), 2-1/2" CALIPER, BALLED AND BURLAPPED                  | EACH | 11                   |                        |                          |                               |                             |                          |                                 |          |            |                |                   |                |                                    | 11 |  |

\* SPECIALTY ITEMS

| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SUMMARY OF QUANTITIES

SCALE: N/A      DRAWN BY: BFH  
DATE: 7-07-06      CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

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SUMMARY OF QUANTITIES

100% STATE      96% STATE  
100% VILLAGE      5% VILLAGE      100% VILLAGE

| CODE NUMBER  | PAY ITEM  | UNIT    | URBAN TOTAL QUANTITY | CONSTRUCTION TYPE CODE |                          |                               |                             |               |                    |          |            |                |                   |                |                                    |        |
|--------------|---|---------|----------------------|------------------------|--------------------------|-------------------------------|-----------------------------|---------------|--------------------|----------|------------|----------------|-------------------|----------------|------------------------------------|--------|
|              |   |         |                      | ROADWAY                | TRAFFIC SIGNALS US6/US45 | TRAFFIC SIGNALS US45/158thPL. | TRAFFIC SIGNALS US6/94thAV. | INTER CONNECT | SIGNAL PRE EMPTION | LIGHTING | WATER MAIN | SANITARY SEWER | VILLAGE LANDSCAPE | RETAINING WALL | 50% STATE 50% VILLAGE LEW SIDEWALK |        |
| * A2006720   | TREE, QUERCUS MACROCARPA (BUR OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED  | EACH    | 6                    |                        |                          |                               |                             |               |                    |          |            |                |                   |                |                                    | 6      |
| * A2007120   | TREE, QUERCUS RUBRA (RED OAK), 2-1/2" CALIPER, BALLED AND BURLAPPED   | EACH    | 20                   |                        |                          |                               |                             |               |                    |          |            |                |                   |                |                                    | 20     |
| * A2008120   | TREE, TILIA CORDATA GREENSPIRE (GREENSPIRE LITTLE LEAF LINDEN), 2-1/2" CALIPER, BALLED AND BURLAPPED                  | EACH    | 14                   |                        |                          |                               |                             |               |                    |          |            |                |                   |                |                                    | 14     |
| * A2008820   | TREE, ULMUS CARPINIFOLIA HOMESTEAD (HOMESTEAD ELM), 2-1/2" CALIPER, BALLED AND BURLAPPED                              | EACH    | 6                    |                        |                          |                               |                             |               |                    |          |            |                |                   |                |                                    | 6      |
| * B2004120   | TREE, MALUS PRAIRIFIRE (PRAIRIFIRE CRABAPPLE), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED                        | EACH    | 13                   |                        |                          |                               |                             |               |                    |          |            |                |                   |                |                                    | 13     |
| * B2005520   | TREE, PYRUS CALLERYANA ARISTOCRAT (ARISTOCRAT CALLERY PEAR), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED          | EACH    | 48                   |                        |                          |                               |                             |               |                    |          |            |                |                   |                |                                    | 48     |
| * B2006320   | TREE, SYRINGA RETICULATA IVORY SILK (IVORY SILK JAPANESE TREE LILAC), 2-1/2" CALIPER, TREE FORM, BALLED AND BURLAPPED | EACH    | 37                   |                        |                          |                               |                             |               |                    |          |            |                |                   |                |                                    | 37     |
| * K0026850   | PERENNIAL PLANT CARE  | SO YD   | 15,971               |                        |                          |                               |                             |               |                    |          |            |                |                   |                |                                    | 15,971 |
| * K1003679   | MULCH   | CU YD   | 89.3                 |                        |                          |                               |                             |               |                    |          |            |                |                   |                |                                    | 89.3   |
| X0301865     | PIPE CULVERT REMOVAL 24"  | FOOT    | 196                  | 196                    |                          |                               |                             |               |                    |          |            |                |                   |                |                                    |        |
| X0320591     | SANITARY MANHOLES TO BE REMOVED   | EACH    | 1                    | 1                      |                          |                               |                             |               |                    |          |            |                |                   |                |                                    |        |
| X0320816     | SLEEPER SLAB  | SO YD   | 352                  | 352                    |                          |                               |                             |               |                    |          |            |                |                   |                |                                    |        |
| X0321556     | SANITARY MANHOLES TO BE ADJUSTED  | EACH    | 20                   |                        |                          |                               |                             |               |                    |          |            |                |                   |                | 20                                 |        |
| * Δ X0322033 | STORM SEWER (WATER MAIN REQUIREMENTS) 12"   | FOOT    | 186                  | 186                    |                          |                               |                             |               |                    |          |            |                |                   |                |                                    |        |
| * Δ X0322034 | STORM SEWER (WATER MAIN REQUIREMENTS) 15"   | FOOT    | 121                  | 121                    |                          |                               |                             |               |                    |          |            |                |                   |                |                                    |        |
| * Δ X0322125 | STORM SEWER (WATER MAIN REQUIREMENTS) 24"   | FOOT    | 167                  | 167                    |                          |                               |                             |               |                    |          |            |                |                   |                |                                    |        |
| X0322256     | TEMPORARY INFORMATION SIGNING   | SO FT   | 375                  | 375                    |                          |                               |                             |               |                    |          |            |                |                   |                |                                    |        |
| * Δ X0322525 | STORM SEWER (WATER MAIN REQUIREMENTS) 21"   | FOOT    | 17                   | 17                     |                          |                               |                             |               |                    |          |            |                |                   |                |                                    |        |
| * X0322859   | WEED CONTROL, PRE-EMERGENT GRANULAR HERBICIDE   | POUND   | 24                   |                        |                          |                               |                             |               |                    |          |            |                |                   |                |                                    | 24     |
| * X0322925   | ELECTRIC CABLE IN CONDUIT, TRACER, NO. 14 1C  | FOOT    | 11,681               |                        |                          |                               |                             |               | 11,681             |          |            |                |                   |                |                                    |        |
| * X0323003   | TEMPORARY ELECTRIC SERVICE INSTALLATION   | EACH    | 1                    |                        |                          |                               |                             |               |                    |          |            |                |                   |                | 1                                  |        |
| * X0323153   | ELECTRIC CABLE IN CONDUIT, GROUND, NO. 6 1C (GREEN)   | FOOT    | 1,753                |                        | 744                      | 515                           | 494                         |               |                    |          |            |                |                   |                |                                    |        |
| * X0323353   | GATE VALVES, 10"  | EACH    | 1                    |                        |                          |                               |                             |               |                    |          |            |                |                   |                | 1                                  |        |
| X0323426     | SEDIMENT CONTROL, DRAINAGE STRUCTURE INLET FILTER CLEANING  | EACH    | 123                  | 123                    |                          |                               |                             |               |                    |          |            |                |                   |                |                                    |        |
| * X0323574   | MAINTENANCE OF LIGHTING SYSTEM  | CAL MO. | 18                   |                        |                          |                               |                             |               |                    |          |            |                |                   |                | 18                                 |        |
| * X0323670   | PREFORMED DETECTOR LOOP   | FOOT    | 2,937                |                        | 1244                     | 1450                          | 243                         |               |                    |          |            |                |                   |                |                                    |        |


Δ Y060 58% STATE/42% VILLAGE  
\* SPECIALTY ITEMS

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SUMMARY OF QUANTITIES

SCALE: N/A      DRAWN BY: BFH  
DATE: 7-07-06      CHECKED BY: RCH

 McDonough Associates Inc.  
Engineers / Architects

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SUMMARY OF QUANTITIES

100% STATE      100% VILLAGE      95% STATE 5% VILLAGE      100% VILLAGE

| CODE NUMBER | PAY ITEM   | UNIT   | URBAN TOTAL QUANTITY | CONSTRUCTION TYPE CODE |                          |                              |                             |                          |                                 |          |            |                |                   |                |                            |  |  |
|-------------|--|--------|----------------------|------------------------|--------------------------|------------------------------|-----------------------------|--------------------------|---------------------------------|----------|------------|----------------|-------------------|----------------|----------------------------|--|--|
|             |  |        |                      | ROADWAY                | TRAFFIC SIGNALS US6/US45 | TRAFFIC SIGNALS US45/158+HPL | TRAFFIC SIGNALS US6/94+HNAV | 100% STATE INTER CONNECT | 100% VILLAGE SIGNAL PRE EMPTION | LIGHTING | WATER MAIN | SANITARY SEWER | VILLAGE LANDSCAPE | RETAINING WALL | 50% STATE 50% NEW SIDEWALK |  |  |
|             |  |        |                      | J000-2A                | Y031-1F                  | Y031-1F                      | Y031-1F                     | Y031-1F                  | Y031-3D                         | Y030-1E  | Y060       | Y060           | Y003              | Y007           | SF Y-1B                    |  |  |
| X0323840    | WATER MAIN LINE STOP 6"  | EACH   | 1                    |                        |                          |                              |                             |                          |                                 |          |            | 1              |                   |                |                            |  |  |
| X0323842    | WATER MAIN LINE STOP 12"   | EACH   | 1                    |                        |                          |                              |                             |                          |                                 |          |            | 1              |                   |                |                            |  |  |
| X0323870    | TRANSITION SLEEVE 8"   | EACH   | 1                    |                        |                          |                              |                             |                          |                                 |          |            | 1              |                   |                |                            |  |  |
| X0323871    | TRANSITION SLEEVE 12"  | EACH   | 5                    |                        |                          |                              |                             |                          |                                 |          |            | 5              |                   |                |                            |  |  |
| X0323873    | TRANSITION SLEEVE 10"  | EACH   | 1                    |                        |                          |                              |                             |                          |                                 |          |            | 1              |                   |                |                            |  |  |
| X0323973    | SEDIMENT CONTROL, SILT FENCE   | FOOT   | 8,080                | 8,080                  |                          |                              |                             |                          |                                 |          |            |                |                   |                |                            |  |  |
| X0323974    | SEDIMENT CONTROL, SILT FENCE MAINTENANCE   | FOOT   | 8,080                | 8,080                  |                          |                              |                             |                          |                                 |          |            |                |                   |                |                            |  |  |
| X0324302    | REMOVAL OF TEMPORARY LIGHTING FIXTURE, SALVAGE   | EACH   | 75                   |                        |                          |                              |                             |                          |                                 |          | 75         |                |                   |                |                            |  |  |
| X0840000    | SANITARY SEWER REMOVAL 8"  | FOOT   | 230                  |                        |                          |                              |                             |                          |                                 |          |            |                | 230               |                |                            |  |  |
| X0976500    | END SECTIONS TO BE REMOVED   | EACH   | 3                    | 3                      |                          |                              |                             |                          |                                 |          |            |                |                   |                |                            |  |  |
| X4022000    | TEMPORARY ACCESS (COMMERCIAL ENTRANCE)   | EACH   | 25                   | 25                     |                          |                              |                             |                          |                                 |          |            |                |                   |                |                            |  |  |
| X7015000    | CHANGEABLE MESSAGE SIGN  | CAL MO | 48                   | 48                     |                          |                              |                             |                          |                                 |          |            |                |                   |                |                            |  |  |
| X7030104    | WET PAVEMENT MARKING TAPE, TYPE III 4"   | FOOT   | 68,477               | 68,477                 |                          |                              |                             |                          |                                 |          |            |                |                   |                |                            |  |  |
| X7030106    | WET PAVEMENT MARKING TAPE, TYPE III 6"   | FOOT   | 10,266               | 10,266                 |                          |                              |                             |                          |                                 |          |            |                |                   |                |                            |  |  |
| X7030112    | WET PAVEMENT MARKING TAPE, TYPE III 12"  | FOOT   | 1,930                | 1,930                  |                          |                              |                             |                          |                                 |          |            |                |                   |                |                            |  |  |
| X7030120    | WET PAVEMENT MARKING TAPE, TYPE III - LETTERS AND SYMBOLS  | SQ FT  | 2,598                | 2,598                  |                          |                              |                             |                          |                                 |          |            |                |                   |                |                            |  |  |
| X8050015    | SERVICE INSTALLATION - POLE MOUNTED  | EACH   | 3                    |                        | 1                        | 1                            | 1                           |                          |                                 |          |            |                |                   |                |                            |  |  |
| X8160370    | UNIT DUCT, WITH 3-1/C NO. 4 AND 1/C NO. 6 GROUND, 600V (EPR-TYPE RHW), 1 1/4" DIA., POLYETHYLENE | FOOT   | 1,328                |                        |                          |                              |                             |                          |                                 |          | 1,328      |                |                   |                |                            |  |  |
| X8710020    | FIBER OPTIC CABLE IN CONDUIT, NO. 62.5/125, MM12F SM12F  | FOOT   | 11,681               |                        |                          |                              |                             | 11,681                   |                                 |          |            |                |                   |                |                            |  |  |
| X8730250    | ELECTRIC CABLE IN CONDUIT NO. 20 3/C, TWISTED, SHIELDED  | FOOT   | 2,902                |                        |                          |                              |                             |                          |                                 | 2,902    |            |                |                   |                |                            |  |  |
| X8800020    | SIGNAL HEAD ,LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED  | EACH   | 30                   |                        | 15                       | 11                           | 4                           |                          |                                 |          |            |                |                   |                |                            |  |  |
| X8800040    | SIGNAL HEAD ,LED, 1-FACE, 5-SECTION, BRACKET MOUNTED   | EACH   | 3                    |                        | 3                        |                              |                             |                          |                                 |          |            |                |                   |                |                            |  |  |
| X8800045    | SIGNAL HEAD ,LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED  | EACH   | 20                   |                        | 5                        | 3                            | 12                          |                          |                                 |          |            |                |                   |                |                            |  |  |
| X8805280    | SIGNAL HEAD ,LED, 2-FACE, 1-3 SECTION, 1-5, SECTION BRACKET MOUNTED                              | EACH   | 1                    |                        |                          | 1                            |                             |                          |                                 |          |            |                |                   |                |                            |  |  |
| X8805310    | SIGNAL HEAD ,LED, 3-FACE, 1-3 SECTION, 2-5, SECTION BRACKET MOUNTED                              | EACH   | 1                    |                        |                          | 1                            |                             |                          |                                 |          |            |                |                   |                |                            |  |  |
| X8810610    | PEDESTRIAN SIGNAL HEAD, LED, 1-FACE, BRACKET MOUNTED   | EACH   | 4                    |                        | 4                        |                              |                             |                          |                                 |          |            |                |                   |                |                            |  |  |

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SUMMARY OF QUANTITIES

SCALE: N/A      DRAWN BY: BFH  
DATE: 7-07-06      CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

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**SUMMARY OF QUANTITIES**

| CODE NUMBER | PAY ITEM  | UNIT  | URBAN TOTAL QUANTITY | 100% STATE             |                          | 100% VILLAGE                  | 95% STATE 5% VILLAGE        | 100% VILLAGE             |                                 | LIGHTING | WATER MAIN | SANITARY SEWER | VILLAGE LANDSCAPE | RETAINING WALL | 30% STATE 50% VILLAGE NEW WALK SIDEWALK |  |
|-------------|---|-------|----------------------|------------------------|--------------------------|-------------------------------|-----------------------------|--------------------------|---------------------------------|----------|------------|----------------|-------------------|----------------|---|--|
|             |   |       |                      | ROADWAY                | TRAFFIC SIGNALS US6/US45 | TRAFFIC SIGNALS US45/158thPL. | TRAFFIC SIGNALS US6/94thAV. | 100% STATE INTER CONNECT | 100% VILLAGE SIGNAL PRE EMPTION |          |            |                |                   |                |   |  |
|             |   |       |                      | CONSTRUCTION TYPE CODE |                          |                               |                             |                          |                                 |          |            |                |                   |                |   |  |
|             |   |       |                      | J000-2A                | Y031-1F                  | Y031-1F                       | Y031-1F                     | Y031-1F                  | Y031-3D                         | Y030-1E  | Y060       | Y060           | Y003              | Y007           | SFTY-1B                                 |  |
| * X8810620  | PEDESTRIAN SIGNAL HEAD, LED, 2-FACE, BRACKET MOUNTED                    | EACH  | 6                    |                        | 2                        | 4                             |                             |                          |                                 |          |            |                |                   |                |   |  |
| * X8950115  | RELOCATE LIGHT DETECTOR   | EACH  | 1                    |                        |                          |                               | 1                           |                          |                                 |          |            |                |                   |                |   |  |
| * X8950120  | RELOCATE LIGHT DETECTOR AMPLIFIER                                       | EACH  | 1                    |                        |                          |                               | 1                           |                          |                                 |          |            |                |                   |                |   |  |
| * XX001490  | GATE VALVES, 8"   | EACH  | 2                    |                        |                          |                               |                             |                          |                                 |          | 2          |                |                   |                |   |  |
| * XX002113  | TEMPORARY LIGHTING CONTROLLER   | EACH  | 1                    |                        |                          |                               |                             |                          |                                 | 1        |            |                |                   |                |   |  |
| * XX002985  | TEMPORARY CAP   | EACH  | 7                    |                        |                          |                               |                             |                          |                                 |          | 7          |                |                   |                |   |  |
| * XX003032  | GATE VALVES, 12"  | EACH  | 4                    |                        |                          |                               |                             |                          |                                 |          | 4          |                |                   |                |   |  |
| * XX006253  | SANITARY MANHOLE, 4' DIA  | EACH  | 2                    |                        |                          |                               |                             |                          |                                 |          |            | 2              |                   |                |   |  |
| XX004056    | MECHANICALLY STABILIZED EARTH RETAINING WALL                            | SQ FT | 7,639                |                        |                          |                               |                             |                          |                                 |          |            |                |                   |                | 7,639                                   |  |
| * XX004122  | PERENNIAL PLANTS BULB, SPECIAL  | UNIT  | 33                   |                        |                          |                               |                             |                          |                                 |          |            |                | 33                |                |   |  |
| XX004667    | RESTRICTOR MANHOLE, TYPE A, 6'DIAMETER TYPE 1 FRAME, CLOSED LID         | EACH  | 2                    | 2                      |                          |                               |                             |                          |                                 |          |            |                |                   |                |   |  |
| * XX004810  | VALVE VAULTS, TYPE A, 6'-DIAMETER, TYPE 1 FRAME, CLOSED LID             | EACH  | 3                    |                        |                          |                               |                             |                          |                                 |          | 3          |                |                   |                |   |  |
| XX004970    | TEMPORARY PAVEMENT SUPERPAVE  | SQ YD | 21,798               | 21,798                 |                          |                               |                             |                          |                                 |          |            |                |                   |                |   |  |
| X0325560    | SEDIMENT CONTROL DRAINAGE STRUCTURE INLET FILTER                        | EACH  | 123                  | 123                    |                          |                               |                             |                          |                                 |          |            |                |                   |                |   |  |
| Z0001050    | AGGREGATE SUBGRADE 12"  | SQ YD | 51,154               | 51,154                 |                          |                               |                             |                          |                                 |          |            |                |                   |                |   |  |
| Z0013798    | CONSTRUCTION LAYOUT   | L SUM | 1                    | 1                      |                          |                               |                             |                          |                                 |          |            |                |                   |                |   |  |
| ○ Z0030255  | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 2 | EACH  | 18                   | 18                     |                          |                               |                             |                          |                                 |          |            |                |                   |                |   |  |
| Z0041700    | PLUG EXISTING STORM SEWERS  | EACH  | 7                    | 7                      |                          |                               |                             |                          |                                 |          |            |                |                   |                |   |  |
| * Z0045002  | PRESSURE CONNECTION 12" X 8"  | EACH  | 1                    |                        |                          |                               |                             |                          |                                 |          | 1          |                |                   |                |   |  |
| * Z0045400  | PRESSURE CONNECTION 16" X 16"   | EACH  | 1                    |                        |                          |                               |                             |                          |                                 |          | 1          |                |                   |                |   |  |
| * Z0056900  | SANITARY SEWER 8"   | FOOT  | 212                  |                        |                          |                               |                             |                          |                                 |          |            | 212            |                   |                |   |  |
| * Z0067500  | STEEL CASINGS 16"   | FOOT  | 110                  |                        |                          |                               |                             |                          |                                 |          | 110        |                |                   |                |   |  |
| * Z0067700  | STEEL CASINGS 20"   | FOOT  | 80                   |                        |                          |                               |                             |                          |                                 |          | 80         |                |                   |                |   |  |
| * Z0067900  | STEEL CASINGS 24"   | FOOT  | 30                   |                        |                          |                               |                             |                          |                                 |          | 30         |                |                   |                |   |  |
| X0325546    | WET PAVEMENT MARKING TAPE, TYPE III 8"                                  | FOOT  | 888                  | 888                    |                          |                               |                             |                          |                                 |          |            |                |                   |                |   |  |
| X0325547    | WET PAVEMENT MARKING TAPE, TYPE III 24"                                 | FOOT  | 933                  | 933                    |                          |                               |                             |                          |                                 |          |            |                |                   |                |   |  |


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\* SPECIALTY ITEMS

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

**SUMMARY OF QUANTITIES**

SCALE: N/A                      DRAWN BY: BFH  
DATE: 7-07-06                  CHECKED BY: RCH


**McDonough Associates Inc.**  
Engineers / Architects

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Rev.

SUMMARY OF QUANTITIES

| CODE NUMBER | PAY ITEM   | UNIT   | URBAN TOTAL QUANTITY | 100% STATE             |                          | 100% VILLAGE                  |                             | 95% STATE 5% VILLAGE     |                                 | 100% VILLAGE |            |                |                   |                | NEW SIDEWALK |
|-------------|--|--------|----------------------|------------------------|--------------------------|-------------------------------|-----------------------------|--------------------------|---------------------------------|--------------|------------|----------------|-------------------|----------------|--------------|
|             |  |        |                      | ROADWAY                | TRAFFIC SIGNALS US6/US45 | TRAFFIC SIGNALS US45/158thPL. | TRAFFIC SIGNALS US6/94thAV. | 100% STATE INTER CONNECT | 100% VILLAGE SIGNAL PRE EMPTION | LIGHTING     | WATER MAIN | SANITARY SEWER | VILLAGE LANDSCAPE | RETAINING WALL |              |
|             |  |        |                      | CONSTRUCTION TYPE CODE |                          |                               |                             |                          |                                 |              |            |                |                   |                |              |
|             |  |        |                      | J000-2A                | Y031-1F                  | Y031-1F                       | Y031-1F                     | Y031-1F                  | Y031-3D                         | Y030-1E      | Y060       | Y060           | Y003              | Y007           | SFT Y-1B     |
| X0325542    | HIGH-EARLY-STRENGTH PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)  | SQ YD  | 1,000                | 1,000                  |                          |                               |                             |                          |                                 |              |            |                |                   |                |              |
| *X0325543   | TRANSITION SLEEVE 16"  | EACH   | 1                    |                        |                          |                               |                             |                          |                                 |              |            | 1              |                   |                |              |
| *X0325544   | PRESSURE CONNECTION 16" X 8"   | EACH   | 1                    |                        |                          |                               |                             |                          |                                 |              |            | 1              |                   |                |              |
| *X0323828   | WATER MAIN TO BE REMOVED 16"   | FOOT   | 1,023                |                        |                          |                               |                             |                          |                                 |              |            | 1,023          |                   |                |              |
| *X0320772   | WATER MAIN TO BE REMOVED 12"   | FOOT   | 132                  |                        |                          |                               |                             |                          |                                 |              |            | 132            |                   |                |              |
| *X0325548   | STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 26 FT. AND 38 FT.                                    | EACH   | 1                    |                        |                          |                               | 1                           |                          |                                 |              |            |                |                   |                |              |
| *X0325549   | STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 32 FT. AND 36 FT.                                    | EACH   | 1                    |                        |                          | 1                             |                             |                          |                                 |              |            |                |                   |                |              |
| *X0325550   | STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 36 FT. AND 38 FT.                                    | EACH   | 1                    |                        |                          | 1                             |                             |                          |                                 |              |            |                |                   |                |              |
| *X0325551   | STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT AND 22 FT.                                     | EACH   | 1                    |                        |                          |                               | 1                           |                          |                                 |              |            |                |                   |                |              |
| *X0325552   | STEEL MAST ARM ASSEMBLY AND POLE WITH DUAL MAST ARMS, 44 FT AND 28 FT.                                     | EACH   | 1                    |                        |                          |                               | 1                           |                          |                                 |              |            |                |                   |                |              |
| *X0325545   | PLANTING MIX, FURNISH AND PLACE, 18"   | SQ YD  | 1,072                |                        |                          |                               |                             |                          |                                 |              |            |                | 1,072             |                |              |
| *A2002020   | TREE, AESCULUS GLABRA (OHIO BUCKEYE), 2-1/2" CALIPER, BALLED AND BURLAPPED                                 | EACH   | 12                   |                        |                          |                               |                             |                          |                                 |              |            |                | 12                |                |              |
| *A2002218   | TREE, ALNUS GLUTINOSA (BLACK ALDER), 2" CALIPER, BALLED AND BURLAPPED                                      | EACH   | 32                   |                        |                          |                               |                             |                          |                                 |              |            |                | 32                |                |              |
| *A2004514   | TREE, GINKGO BILOBA AUTUMN GOLD (AUTUMN GOLD GINKGO), 2-1/2", BALLED AND BURLAPPED                         | EACH   | 5                    |                        |                          |                               |                             |                          |                                 |              |            |                | 5                 |                |              |
| *X0325553   | TEMPORARY WOOD POLE, 60 FT., CLASS 4, 20 FT. MAST ARM  | EACH   | 75                   |                        |                          |                               |                             |                          |                                 |              | 75         |                |                   |                |              |
| XX005840    | FLAGSTONE SIDEWALK (SPECIAL)   | SQ FT  | 2,876                |                        |                          |                               |                             |                          |                                 |              |            |                | 2,876             |                |              |
| *X0325559   | LIGHTING CONTROLLER, SPECIAL, 200A, 240/480V   | EACH   | 1                    |                        |                          |                               |                             |                          |                                 |              | 1          |                |                   |                |              |
| *X0325555   | ALUMINUM BREAKAWAY, TRANSFORMER BASE   | EACH   | 60                   |                        |                          |                               |                             |                          |                                 |              | 60         |                |                   |                |              |
| *X0325556   | TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT, TYPE III DISTRIBUTION                       | EACH   | 9                    |                        |                          |                               |                             |                          |                                 |              | 9          |                |                   |                |              |
| *X0325557   | TEMPORARY LUMINAIRE, SODIUM VAPOR, HORIZONTAL MOUNT, 400 WATT, TYPE IV DISTRIBUTION                        | EACH   | 75                   |                        |                          |                               |                             |                          |                                 |              | 75         |                |                   |                |              |
| *X0325558   | UNIT DUCT, WITH 5-1/C NO. 4 AND 1/C NO. 6 GROUND, 600V (EPR-TYPE RHW), 1 1/2" DIA., POLYETHYLENE           | FOOT   | 10,650               |                        |                          |                               |                             |                          |                                 |              | 10,650     |                |                   |                |              |
| *X0325554   | MODIFY EXISTING LIGHT POLE, ALUMINUM 47.5 FT. M.H., WITH NEW 15 FT. MAST ARM AND 20A, 120V GFCI RECEPTACLE | EACH   | 42                   |                        |                          |                               |                             |                          |                                 |              | 42         |                |                   |                |              |
| X2510630    | HEAVY DUTY EROSION CONTROL BLANKET   | SQ YD  | 15971                |                        |                          |                               |                             |                          |                                 |              |            |                | 15,971            |                |              |
| 42400800    | DETECTABLE WARNINGS  | SQ FT  | 350                  | 350                    |                          |                               |                             |                          |                                 |              |            |                |                   |                |              |
| 06900200    | NON-SPECIAL WASTE DISPOSAL   | CU YD  | 1375                 | 1375                   |                          |                               |                             |                          |                                 |              |            |                |                   |                |              |
| 06900400    | SPECIAL WASTE GROUNDWATER DISPOSAL   | GALLON | 12,046               | 12,046                 |                          |                               |                             |                          |                                 |              |            |                |                   |                |              |
| 06900450    | SPECIAL WASTE PLANS AND REPORTS  | L SUM  | 1                    | 1                      |                          |                               |                             |                          |                                 |              |            |                |                   |                |              |
| 06901000    | BACKFILL PLUGS   | CU YD  | 90                   | 90                     |                          |                               |                             |                          |                                 |              |            |                |                   |                |              |
| X0301828    | ENGINEERED BARRIER   | SQ YD  | 2,600                | 2,600                  |                          |                               |                             |                          |                                 |              |            |                |                   |                |              |

\*SPECIALTY ITEMS

| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SUMMARY OF QUANTITIES

SCALE: N/A  
DATE: 7-07-06

DRAWN BY: BFH  
CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

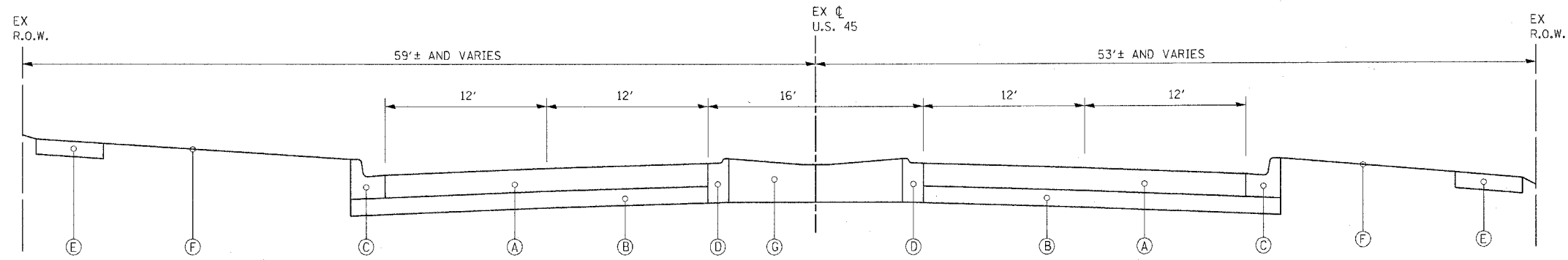
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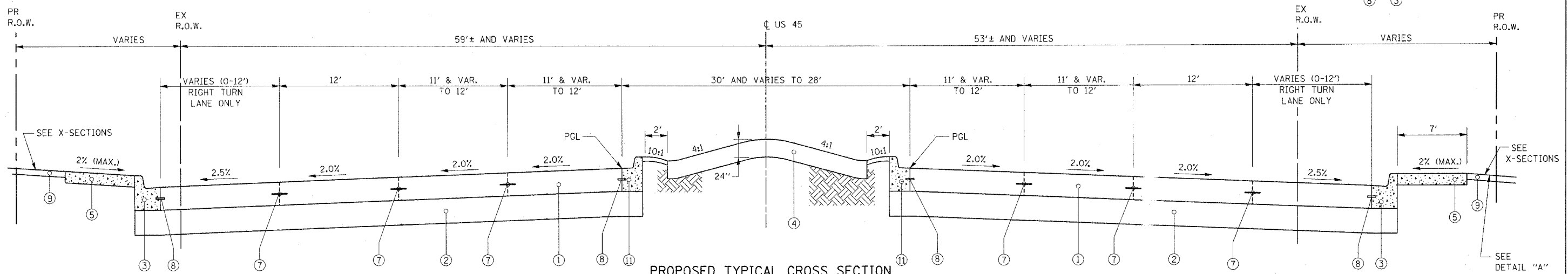
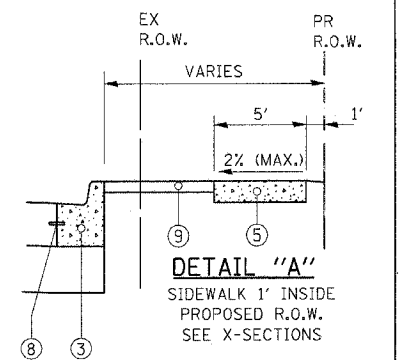
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|-------------|---------|--------|--------------|-----------|
| F.A.D. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 351         | 537 R-1 | COOK   | 245          | 15        |

STA. \_\_\_\_\_ TO STA. \_\_\_\_\_  
 FED. ROAD DIST. NO. \_\_\_\_\_ ILLINOIS FED. AID PROJECT

CONTRACT # 62880

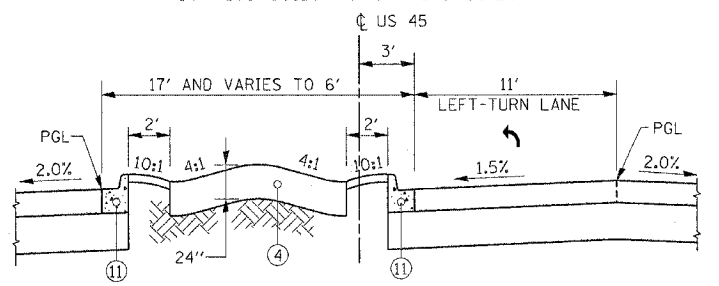


**EXISTING TYPICAL CROSS SECTION**  
 U.S. ROUTE 45 (LAGRANGE ROAD)

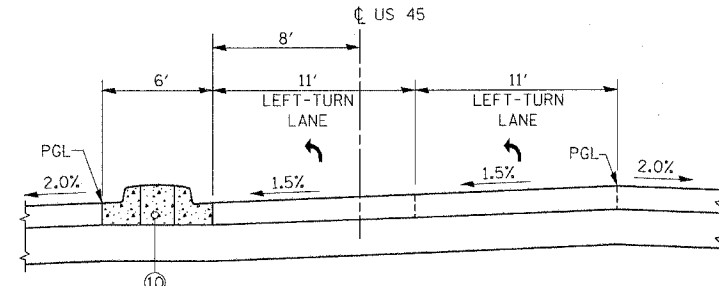


**PROPOSED TYPICAL CROSS SECTION**  
 U.S. ROUTE 45 (LAGRANGE ROAD)  
 STA 163+53.28 TO STA 178+86.26

- EXISTING LEGEND**
- (A) EXISTING CONCRETE PAVEMENT, 8"
  - (B) EXISTING SUBBASE, 6"
  - (C) EXISTING CURB AND GUTTER, TYPE B-6.24
  - (D) EXISTING CONCRETE CURB & GUTTER TYPE M-6.12
  - (E) EXISTING SIDEWALK
  - (F) PARKWAY (GRASS AREA)
  - (G) EXISTING CONCRETE MEDIAN
- PROPOSED LEGEND**
- (1) PORTLAND CEMENT PAVEMENT (JOINTED), 10"
  - (2) AGGREGATE SUBGRADE, 12"
  - (3) COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24
  - (4) LANDSCAPING (SEE LANDSCAPING PLANS FOR DETAILS)
  - (5) PORTLAND CONCRETE CEMENT SIDEWALK, 5"
  - (6) NOT USED
  - (7) LONGITUDINAL CONSTRUCTION JOINT GROUDED IN PLACE, No. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED PAVEMENT)
  - (8) No. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED CURB AND GUTTER)
  - (9) TOPSOIL AND SEED (SALT TOLERANT, SEE LANDSCAPING SHEETS)
  - (10) CONCRETE MEDIAN, TYPE SB-6.18
  - (11) COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.18



**LANDSCAPE MEDIAN DETAIL**  
 AT SINGLE LEFT TURN LANE



**MEDIAN DETAIL**  
 AT DUAL LEFT TURN LANES  
 (SEE DISTRICT STANDARD 606301-02)

STRUCTURAL DESIGN TRAFFIC: Year 2015

PV= 49,943 SU= 1,629 MU= 2,714

ROAD/STREET CLASSIFICATION: Class I

PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:  
 P= 8.0% S= 37% M= 37%

TRAFFIC FACTOR: Actual TF = 15.73%  
 Minimum TF = 4.95%

P.C.C. PAVEMENT - JOINTED = 10 Inch

SUBGRADE SUPPORT RATING:  
 SSR = POOR

**SUPERPAVE MIX DESIGN**

| TEMPORARY PAVEMENT   |           |              |          |
|--|-----------|--------------|----------|
| MIX TYPE   | MAX RAP % | VOIDS        | AC TYPE  |
| BITUMINOUS BASE COURSE, SUPER PAVE, 8"                         | 50        | 2% @ 50 Gyr. | PG 58-22 |
| BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50 2" | 15        | 4% @ 50 Gyr. | PG 64-22 |

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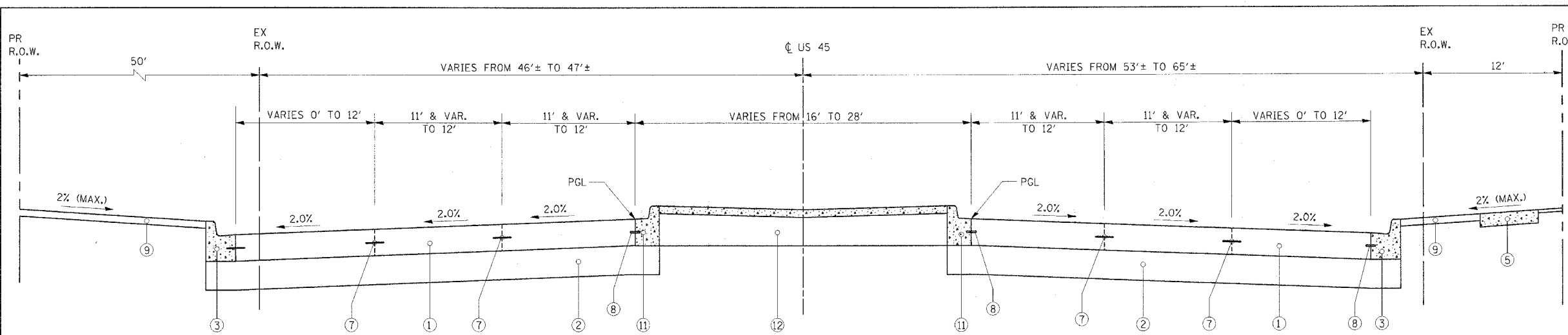
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

**US RTE 45 (LAGRANGE ROAD)**  
 TYPICAL SECTIONS

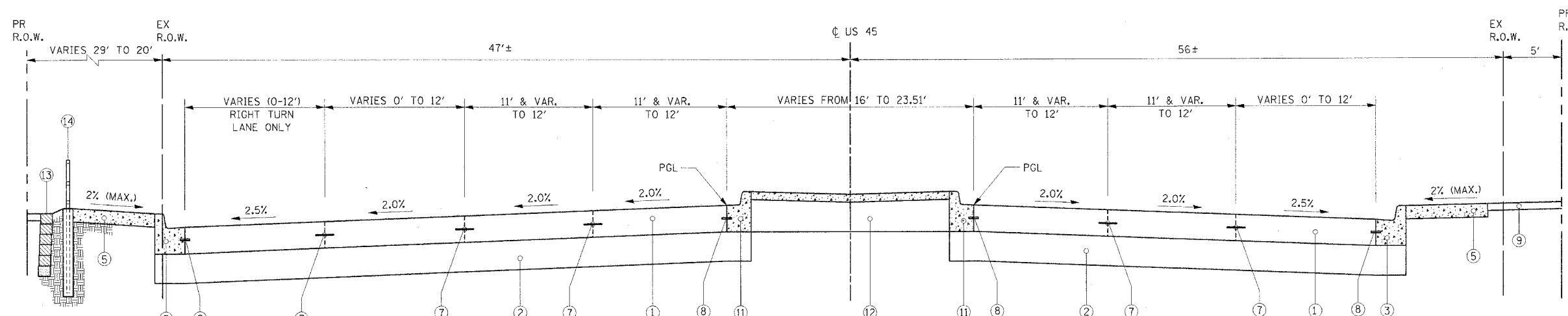
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 DATE: 7-07-06 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects

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**PROPOSED TYPICAL CROSS SECTION**  
**STA. 158+58.28 TO STA. 163+53.28**



**NOTE:**  
 MECHANICALLY STABILIZED EARTH (MSE)  
 RETAINING WALL AND STEEL RAILING  
 FROM STA. 178+86.26 TO STA. 181+53.78

**PROPOSED TYPICAL CROSS SECTION**  
**STA. 178+86.26 TO STA. 183+50.00**

•• 10' TRANSITION FROM B-6.18 C.&G. TO M-2.12 C.&G. AS SHOWN ON SHEET PF-3

**PROPOSED LEGEND**

- ① PORTLAND CEMENT PAVEMENT (JOINTED), 10"
- ② AGGREGATE SUBGRADE, 12"
- ③ COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24
- ④ LANDSCAPING (SEE LANDSCAPING PLANS FOR DETAILS)
- ⑤ PORTLAND CONCRETE CEMENT SIDEWALK, 5"
- ⑥ NOT USED
- ⑦ LONGITUDINAL CONSTRUCTION JOINT GROUTED IN PLACE, NO. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED PAVEMENT)
- ⑧ NO. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED CURB AND GUTTER)
- ⑨ TOPSOIL AND SEED (SALT TOLERANT, SEE LANDSCAPING SHEETS)
- ⑩ CONCRETE MEDIAN, TYPE SB-6.18
- ⑪ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.18
- ⑫ CONCRETE MEDIAN, TYPE P
- ⑬ MECHANICALLY STABILIZED EARTH (MSE) RETAINING WALL
- ⑭ STEEL RAILING AND FOUNDATION

**BITUMINOUS MIXTURE DESIGN TABLE**

| MIXTURE TYPE         | UNIT                      | AC TYPE              | MAX RAP % | AIR VOIDS                  | TYPICAL THICKNESS | MIX TYPE  |
|----------------------|---------------------------|----------------------|-----------|----------------------------|-------------------|---|
| • TEMPORARY PAVEMENT | SEE SUMMARY OF QUANTITIES | PG 64-22<br>PG 58-22 | 15<br>50  | 4% @ 50 GYR<br>2% @ 50 GYR | 2"<br>8"          | BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE MIX "D", N50<br>BITUMINOUS BASE COURSE, SUPERPAVE |

• SEE SPECIAL PROVISIONS

POROUS GRANULAR EMBANKMENT SUBGRADE (PGES) HAS BEEN PROVIDED AT LOCATIONS INDICATED FOR SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PGES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER (BY USE OF A CONE PENETROMETER IN CONJUNCTION WITH THE IDOT SUBGRADE STABILITY MANUAL). IF UNSTABLE SOILS ARE ENCOUNTERED, THE SOILS WILL BE REMOVED AND REPLACED WITH PGES. IF UNSTABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR. ALL UNDERCUTS SHALL EXTEND TO 12 INCH OUTSIDE OF PROPOSED PAVEMENT.

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**US RTE 45 (LAGRANGE ROAD)**  
 TYPICAL SECTIONS

SCALE: N.T.S.  
 DATE: 7-07-06

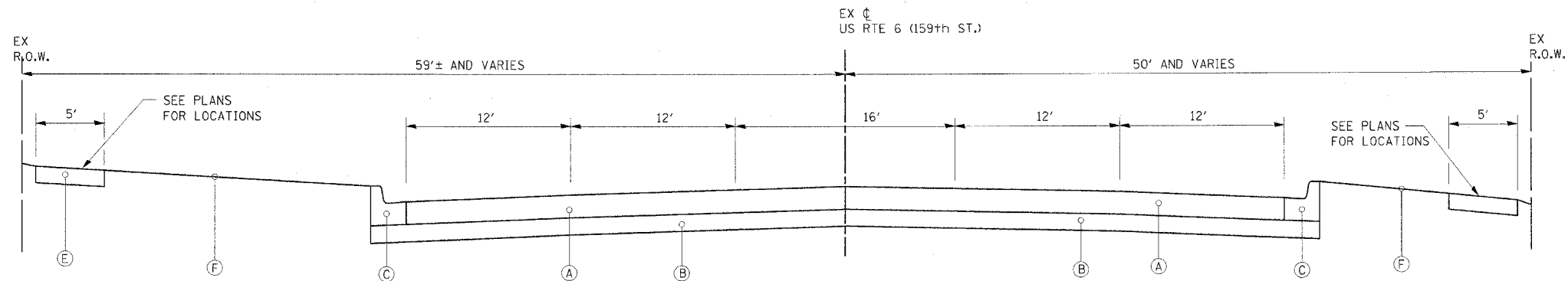
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 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers/Architects

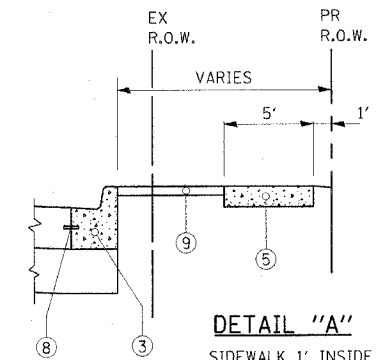


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|---------------------|----------|------------------|--------------|-----------|
| E.A.P. RTE.         | SECTION  | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 351                 | 537 R-1  | COOK             | 245          | 17        |
| STA.                | TO STA.  |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |              |           |

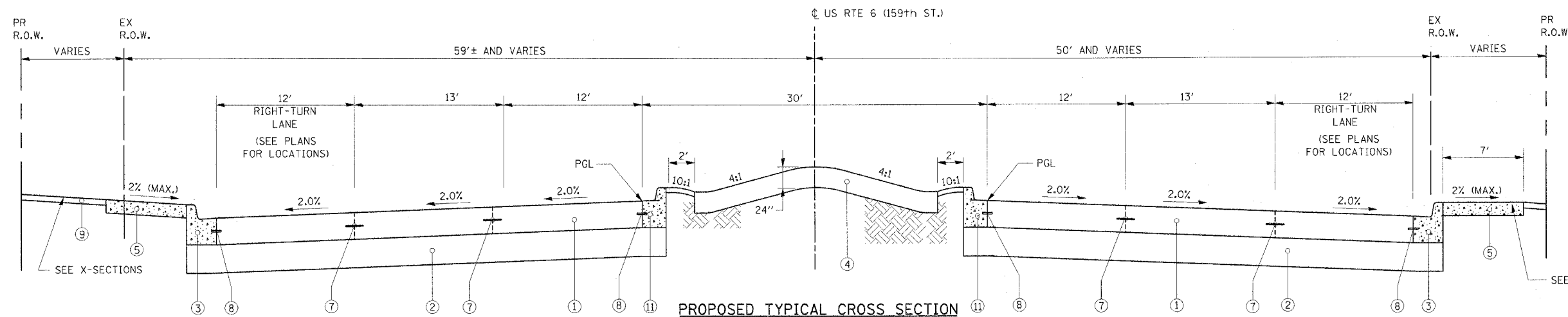
CONTRACT # 62880



**EXISTING TYPICAL CROSS SECTION**  
U.S. ROUTE 6 (159TH STREET)



**DETAIL "A"**  
SIDEWALK 1' INSIDE PROPOSED R.O.W. SEE X-SECTIONS



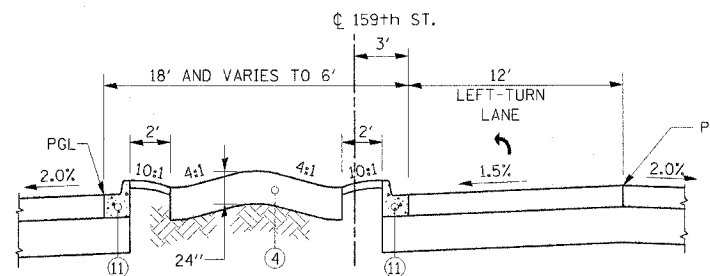
**PROPOSED TYPICAL CROSS SECTION**  
U.S. ROUTE 6 (159TH STREET)  
STA 421+18.46 TO STA 447+53.93

**EXISTING LEGEND**

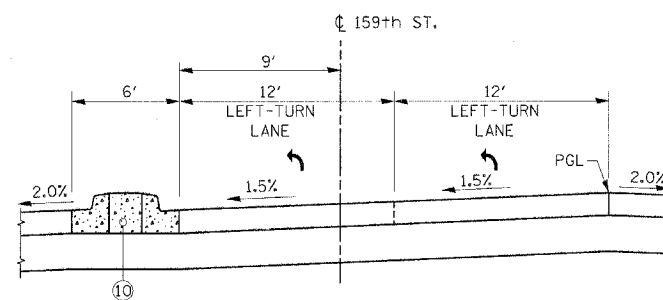
- (A) EXISTING CONCRETE PAVEMENT, 8"
- (B) EXISTING SUBBASE, 6"
- (C) EXISTING CURB AND GUTTER, TYPE B-6.24
- (D) EXISTING CONCRETE CURB & GUTTER TYPE M-6.12
- (E) EXISTING SIDEWALK
- (F) PARKWAY (GRASS AREA)
- (G) EXISTING CONCRETE MEDIAN

**PROPOSED LEGEND**

- (1) PORTLAND CEMENT PAVEMENT (JOINTED), 10"
- (2) AGGREGATE SUBGRADE, 12"
- (3) COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24
- (4) LANDSCAPING (SEE LANDSCAPING PLANS FOR DETAILS)
- (5) PORTLAND CONCRETE CEMENT SIDEWALK, 5"
- (6) NOT USED
- (7) LONGITUDINAL CONSTRUCTION JOINT GROUTED IN PLACE, No. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED PAVEMENT)
- (8) No. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED CURB AND GUTTER)
- (9) TOPSOIL AND SOD OR SEED (SALT TOLERANT, SEE LANDSCAPING SHEETS)
- (10) CONCRETE MEDIAN, TYPE SB-6.18
- (11) COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.18



**LANDSCAPE MEDIAN DETAIL**  
AT SINGLE LEFT TURN LANE



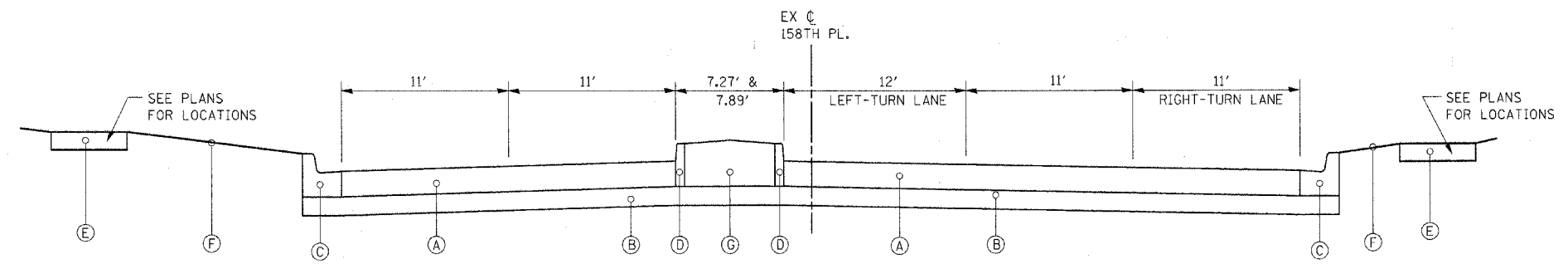
**MEDIAN DETAIL**  
AT DUAL LEFT TURN LANES  
(SEE DISTRICT STANDARD 606301-02)

|  |                       |                     |
|--|-----------------------|---------------------|
| STRUCTURAL DESIGN TRAFFIC:                           | Year                  | 2015                |
| PV=  | 49,943                | SU= 1,629 MU= 2,714 |
| ROAD/STREET CLASSIFICATION:                          | Class I               |                     |
| PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE: | P= 8.0% S= 37% M= 37% |                     |
| TRAFFIC FACTOR:                                      | Actual TF =           | 15.73%              |
|  | Minimum TF =          | 4.95%               |
| P.C.C. PAVEMENT - JOINTED =                          | 10 Inch               |                     |
| SUBGRADE SUPPORT RATING:                             | SSR = POOR            |                     |

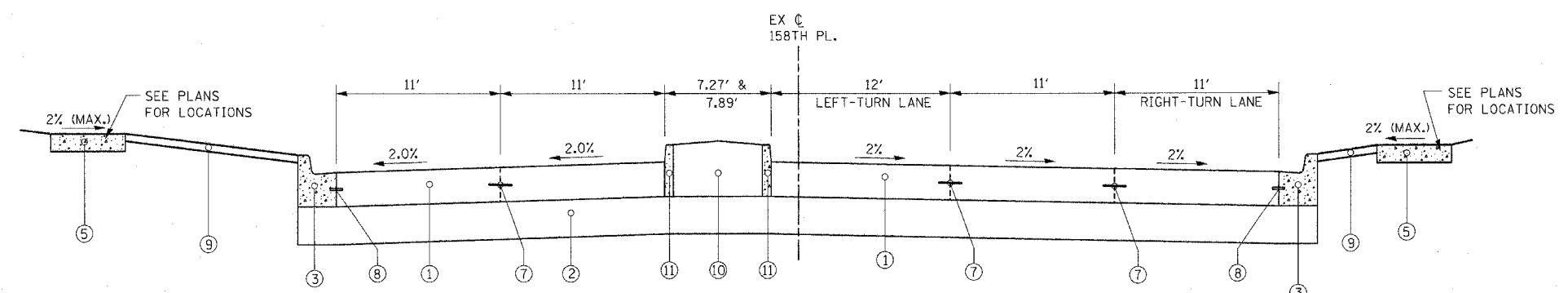
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**US RTE 6 (159TH STREET)**  
TYPICAL SECTIONS  
SCALE: N.T.S. DRAWN BY: JPW  
DATE: 7-07-06 CHECKED BY: RCH  
**McDonough Associates Inc.**  
Engineers/Architects

|                           |         |                           |              |           |
|---------------------------|---------|---------------------------|--------------|-----------|
| F.A.E. RTE.               | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                      | 245          | 18        |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |
| CONTRACT # 62880          |         |                           |              |           |



**EXISTING TYPICAL CROSS SECTION**  
158TH PLACE



**PROPOSED TYPICAL CROSS SECTION**  
158TH PLACE  
STA 28+03.37 TO STA 31+90.82

**158TH PLACE**

- EXISTING LEGEND**
- (A) EXISTING CONCRETE PAVEMENT, 8"
  - (B) EXISTING SUBBASE, 6"
  - (C) EXISTING CURB AND GUTTER, TYPE B-6.24
  - (D) EXISTING CONCRETE CURB & GUTTER, TYPE B6.12 OR CONCRETE CURB, TYPE B
  - (E) EXISTING SIDEWALK
  - (F) PARKWAY (GRASS AREA)
  - (G) EXISTING LANDSCAPED MEDIAN
- PROPOSED LEGEND**
- (1) PORTLAND CEMENT PAVEMENT (JOINTED), 8"
  - (2) AGGREGATE SUBGRADE, 12"
  - (3) COMBINATION CONCRETE CURB AND GUTTER, TYPE B6.24
  - (4) LANDSCAPING (SEE LANDSCAPING PLANS FOR DETAILS)
  - (5) PORTLAND CONCRETE CEMENT SIDEWALK, 5"
  - (6) NOT USED
  - (7) LONGITUDINAL CONSTRUCTION JOINT GROUTED IN PLACE, No. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED PAVEMENT)
  - (8) No. 6 TIE BAR AT 24" LONG, DEFORMED (EPOXY COATED) AT 24" CTS. (INCLUDED IN THE COST OF THE PROPOSED CURB AND GUTTER)
  - (9) TOPSOIL AND SOD OR SEED (SALT TOLERANT, SEE LANDSCAPING SHEETS)
  - (10) PROPOSED MEDIAN TO MATCH EXISTING IN-KIND
  - (11) CONCRETE CURB AND GUTTER, TYPE B6.12 OR CONCRETE CURB, TYPE B

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

**158th PLACE**  
**TYPICAL SECTIONS**

SCALE: N.T.S.                      DRAWN BY: JPW  
DATE: 7-07-06                      CHECKED BY: RCH


**McDonough Associates Inc.**  
Engineers / Architects

FILES  
DATES  
STUMES

EARTHWORK SCHEDULE - 159TH ST

| BEGIN STATION | END STATION | EARTH EXCAVATION | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE* | EMBANKMENT | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) | POROUS GRANULAR EMBANKMENT, SUBGRADE |
|---------------|-------------|------------------|---|---|------------|---|--------------------------------------|
|               |             | CU. YD.          | CU. YD.                                     | CU. YD.   | CU. YD.    | CU. YD.                                     | CU. YD.                              |
| 421+00.00     | 421+50.00   | 210              | 0   | 180   | 25         | 155   | 0                                    |
| 421+50.00     | 421+62.19   | 105              | 0   | 90  | 15         | 75  | 0                                    |
| 421+62.19     | 422+00.00   | 270              | 5   | 230   | 40         | 190   | 0                                    |
| 422+00.00     | 422+50.00   | 235              | 5   | 200   | 65         | 135   | 0                                    |
| 422+50.00     | 423+00.00   | 240              | 10  | 205   | 130        | 75  | 0                                    |
| 423+00.00     | 423+50.00   | 315              | 10  | 270   | 185        | 85  | 0                                    |
| 423+50.00     | 424+00.00   | 240              | 10  | 205   | 185        | 20  | 0                                    |
| 424+00.00     | 424+50.00   | 160              | 5   | 135   | 180        | -45   | 0                                    |
| 424+50.00     | 425+00.00   | 145              | 5   | 125   | 160        | -35   | 0                                    |
| 425+00.00     | 425+50.00   | 65               | 5   | 55  | 70         | -15   | 0                                    |
| 425+50.00     | 426+00.00   | 120              | 5   | 100   | 110        | -10   | 0                                    |
| 426+00.00     | 426+50.00   | 125              | 5   | 105   | 80         | 25  | 0                                    |
| 426+50.00     | 427+00.00   | 120              | 5   | 100   | 85         | 15  | 0                                    |
| 427+00.00     | 427+50.00   | 115              | 5   | 100   | 110        | -10   | 0                                    |
| 427+50.00     | 428+00.00   | 110              | 5   | 95  | 130        | -35   | 0                                    |
| 428+00.00     | 428+50.00   | 175              | 5   | 150   | 140        | 10  | 0                                    |
| 428+50.00     | 429+00.00   | 235              | 0   | 200   | 135        | 65  | 0                                    |
| 429+00.00     | 429+50.00   | 150              | 5   | 130   | 175        | -45   | 0                                    |
| 429+50.00     | 430+00.00   | 80               | 5   | 70  | 190        | -120  | 0                                    |
| 430+00.00     | 430+50.00   | 110              | 5   | 95  | 155        | -60   | 0                                    |
| 430+50.00     | 431+00.00   | 125              | 5   | 105   | 125        | -20   | 0                                    |
| 431+00.00     | 431+50.00   | 120              | 5   | 100   | 100        | 0   | 0                                    |
| 431+50.00     | 432+00.00   | 125              | 5   | 105   | 95         | 10  | 0                                    |
| 432+00.00     | 432+50.00   | 165              | 5   | 140   | 55         | 85  | 0                                    |
| 432+50.00     | 432+66.65   | 80               | 0   | 70  | 5          | 65  | 0                                    |
| 432+66.65     | 433+00.00   | 200              | 5   | 170   | 5          | 165   | 0                                    |
| 433+00.00     | 433+50.00   | 315              | 15  | 270   | 0          | 270   | 0                                    |
| 433+50.00     | 434+00.00   | 150              | 10  | 130   | 5          | 125   | 0                                    |
| 434+00.00     | 434+50.00   | 5                | 5   | 5   | 5          | 0   | 0                                    |
| 434+50.00     | 435+00.00   | 5                | 5   | 5   | 5          | 0   | 0                                    |
| 435+00.00     | 435+50.00   | 205              | 10  | 175   | 5          | 170   | 0                                    |
| 435+50.00     | 436+00.00   | 450              | 15  | 385   | 5          | 380   | 0                                    |
| 436+00.00     | 436+50.00   | 485              | 15  | 410   | 5          | 405   | 0                                    |
| 436+50.00     | 437+00.00   | 485              | 10  | 410   | 5          | 405   | 0                                    |
| 437+00.00     | 437+06.71   | 70               | 0   | 60  | 0          | 60  | 0                                    |
| 437+06.71     | 437+50.00   | 385              | 5   | 325   | 5          | 320   | 0                                    |
| 437+50.00     | 438+00.00   | 370              | 15  | 315   | 5          | 310   | 0                                    |
| 438+00.00     | 438+36.90   | 255              | 10  | 215   | 5          | 210   | 0                                    |
| 438+36.90     | 438+50.00   | 90               | 0   | 75  | 5          | 70  | 0                                    |
| 438+50.00     | 439+00.00   | 325              | 10  | 275   | 10         | 265   | 0                                    |
| 439+00.00     | 439+50.00   | 295              | 20  | 250   | 15         | 235   | 0                                    |
| 439+50.00     | 440+00.00   | 250              | 10  | 215   | 25         | 190   | 0                                    |
| 440+00.00     | 440+03.04   | 15               | 0   | 15  | 5          | 10  | 0                                    |
| 440+03.04     | 440+50.00   | 190              | 0   | 160   | 30         | 130   | 0                                    |
| 440+50.00     | 440+59.89   | 35               | 0   | 30  | 10         | 20  | 0                                    |
| 440+59.89     | 441+00.00   | 120              | 5   | 100   | 30         | 70  | 0                                    |
| 441+00.00     | 441+41.60   | 95               | 5   | 80  | 40         | 40  | 0                                    |
| 441+41.60     | 441+50.00   | 20               | 0   | 15  | 10         | 5   | 0                                    |
| 441+50.00     | 442+00.00   | 95               | 5   | 80  | 55         | 25  | 0                                    |
| 442+00.00     | 442+50.00   | 75               | 10  | 65  | 55         | 10  | 0                                    |
| 442+50.00     | 442+75.86   | 30               | 5   | 25  | 35         | -10   | 0                                    |
| 442+75.86     | 443+00.00   | 30               | 5   | 25  | 30         | -5  | 0                                    |
| 443+00.00     | 443+03.14   | 5                | 0   | 5   | 5          | 0   | 0                                    |
| 443+03.14     | 443+50.00   | 50               | 5   | 45  | 50         | -5  | 0                                    |
| 443+50.00     | 443+83.97   | 35               | 5   | 30  | 35         | -5  | 0                                    |
| 443+83.97     | 444+00.00   | 20               | 0   | 15  | 15         | 0   | 0                                    |
| 444+00.00     | 444+12.15   | 15               | 5   | 15  | 10         | 5   | 0                                    |
| 444+12.15     | 444+50.00   | 35               | 5   | 30  | 30         | 0   | 0                                    |
| 444+50.00     | 445+00.00   | 50               | 5   | 45  | 40         | 5   | 0                                    |
| 445+00.00     | 445+24.78   | 35               | 5   | 30  | 15         | 15  | 0                                    |
| 445+24.78     | 445+50.00   | 50               | 5   | 45  | 10         | 35  | 0                                    |
| 445+50.00     | 445+62.78   | 30               | 5   | 25  | 5          | 20  | 0                                    |
| 445+62.78     | 446+00.00   | 95               | 5   | 80  | 10         | 70  | 0                                    |
| 446+00.00     | 446+50.00   | 145              | 5   | 125   | 5          | 120   | 0                                    |
| 446+50.00     | 447+00.00   | 160              | 5   | 135   | 5          | 130   | 0                                    |
| 447+00.00     | 447+50.00   | 205              | 5   | 175   | 5          | 170   | 0                                    |
| SUB TOTAL     |             | 9,710            | 370   | 8,270   | 3,390      | 4,880                                       | 0                                    |

|                           |         |                  |              |           |
|---------------------------|---------|------------------|--------------|-----------|
| F.A.I.D. RTE.             | SECTION | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK             | 245          | 19        |
| STA. _____ TO STA. _____  |         | FED. AID PROJECT |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS         |              |           |
| CONTRACT # 62880          |         |                  |              |           |

|           |      |   |
|-----------|------|---|
| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)   |
| NAME      | DATE |   |
|           |      | SCHEDULE OF QUANTITIES  |
|           |      |   |
|           |      | SCALE: N/A  |
|           |      | DATE: 7-07-06   |
|           |      | DRAWN BY: JPW   |
|           |      | CHECKED BY: RCH   |
|           |      |  McDonough Associates Inc.<br>Engineers / Architects |

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EARTHWORK SCHEDULE - US 45 AND 158TH PLACE

Table with columns: SECTION, COUNTY, TOTAL SHEETS, SHEET NO. Values: 537 R-1, COOK, 245, 20

CONTRACT # 62880

Main earthwork schedule table with columns: BEGIN STATION, END STATION, EARTH EXCAVATION, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL, EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE, EMBANKMENT, EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-), POROUS GRANULAR EMBANKMENT, SUBGRADE. Includes a SUB TOTAL row.

Table for 158TH PLACE with columns: BEGIN STATION, END STATION, EARTH EXCAVATION, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL, EXCAVATION TO BE USED IN EMBANKMENT ADJUSTED FOR SHRINKAGE, EMBANKMENT, EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-), POROUS GRANULAR EMBANKMENT, SUBGRADE. Includes a SUB TOTAL row.

Table titled EARTH EXCAVATION with columns: QUANTITY, UNIT. Lists US RTE 45 EARTH EXCAVATION, 159TH STREET EARTH EXCAVATION, 158TH STREET EARTH EXCAVATION, and TOTAL EARTH EXCAVATION.

Table titled REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL with columns: QUANTITY, UNIT. Lists US RTE 45 EARTH EXCAVATION (TOPSOIL REMOVAL), MATERIAL FROM PGE (REMOVAL OF UNSUITABLE MATERIAL LESS TOPSOIL REMOVAL), 159TH STREET EARTH EXCAVATION (TOP SOIL REMOVAL), 158TH STREET EARTH EXCAVATION (TOP SOIL REMOVAL), and TOTAL REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL.

Table titled FURNISHED EXCAVATION with columns: QUANTITY, UNIT. Lists US RTE 45 EARTH EXCAVATION, 159TH STREET EARTH EXCAVATION, 158TH STREET EARTH EXCAVATION, and TOTAL FURNISHED EXCAVATION.

Table titled POROUS GRANULAR EMBANKMENT, SUBGRADE with columns: QUANTITY, UNIT. Lists US RTE 45 REMOVAL OF UNSUITABLE MATERIAL, 159TH STREET, 158TH STREET, and TOTAL POROUS GRANULAR EMBANKMENT, SUBGRADE.

Table titled DESCRIPTION with columns: QUANTITY, UNIT. Lists EARTH EXCAVATION, REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL, FURNISHED EXCAVATION, and POROUS GRANULAR EMBANKMENT, SUBGRADE (PGE).

Table with REVISIONS (NAME, DATE) and project information: ILLINOIS DEPARTMENT OF TRANSPORTATION US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD), SCHEDULE OF QUANTITIES, SCALE: N/A, DATE: 7-07-06, DRAWN BY: SFH, CHECKED BY: RCH, McDonough Associates Inc. Engineers/Architects

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PROPOSED DRAINAGE STRUCTURE SCHEDULE

| DRAWING NUMBER | STRUCTURE NUMBER | STATION   | OFFSET   | REINFORCED CONC            | PRECAST REINFORCED CONCRETE | CATCH BASINS, TYPE A |          |                |               |              |              | CB, TYPE C   |               | MANHOLES, TYPE A |             |             |             |             | MH DT         | INLETS       |              | JUNCTION CHAMBERS |             | SANITARY        | RESTRICTOR   | SS PLUGS |
|----------------|------------------|-----------|----------|----------------------------|-----------------------------|----------------------|----------|----------------|---------------|--------------|--------------|--------------|---------------|------------------|-------------|-------------|-------------|-------------|---------------|--------------|--------------|-------------------|-------------|-----------------|--------------|----------|
|                |                  |           |          | END SECTIONS               |                             | FLARED END SECTIONS  |          |                | 4' DIAMETER   |              |              | 5' DIA       | TYPE 1F       | TYPE 8           | 4' DIA.     | 5' DIA.     | 6' DIA.     | 5' DIA.     |               | TYPE A       |              | TYPE              | MANHOLE     |                 | MH TA 6'     |          |
|                |                  |           |          | DOUBLE 24" TRIPLE 24" EACH | EACH                        | 12" EACH             | 18" EACH | EQ RS 30" EACH | T8 GRATE EACH | T23 F&G EACH | T24 F&G EACH | T24 F&G EACH | OPEN LID EACH | GRATE EACH       | T1F CL EACH | T1F CL EACH | T1F CL EACH | T1F CL EACH | T8 GRATE EACH | T24 F&G EACH | SPECIAL EACH | 1 EACH            | 4' DIA EACH | DIA TIF CL EACH | INSTALL EACH |          |
| DU-1           | 160R2            | 160+83.60 | 36.1' RT | -                          | -                           | -                    | -        | -              | 1             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-1           | 160C             | 160+91.81 | 0.0' LT  | -                          | -                           | -                    | -        | 1              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-1           | 161L             | 161+00.00 | 39.7' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-1           | 161L1            | 161+11.20 | 57.1' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | 1             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-1           | 162R             | 162+40.00 | 44.7' RT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-1           | 162L             | 162+50.00 | 45.2' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-1           | 162L1            | 162+53.20 | 54.8' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | 1           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-1           | 164R             | 164+00.00 | 48.0' RT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-1           | 164L             | 164+00.00 | 48.0' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-1           | 164L1            | 164+03.30 | 54.7' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | 1                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-1           | 164R1            | 164+70.00 | 51.0' RT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 165L2            | 165+50.00 | 7.5' LT  | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | 1                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 165L             | 165+50.00 | 48.0' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 165L1            | 165+54.30 | 54.7' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | 1                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 166R             | 166+28.30 | 60.0' RT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 166L             | 166+28.30 | 54.5' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 167L             | 167+50.00 | 48.0' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 167L1            | 167+54.27 | 53.9' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 167R             | 167+71.40 | 60.0' RT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 167L2            | 167+78.00 | 8.0' LT  | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 167L3            | 167+84.80 | 59.0' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 170R1            | 170+04.60 | 8.0' RT  | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 170L1            | 170+04.30 | 65.4' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 170L             | 170+40.00 | 60.0' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 170R             | 170+40.00 | 48.0' RT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 170L2            | 170+84.90 | 66.3' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | 1            |          |
| DU-2           | 171L             | 171+10.00 | 60.0' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 171L1            | 171+25.00 | 59.7' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 171L2            | 171+76.00 | 56.8' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 171L3            | 171+91.50 | 62.4' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | 1            |          |
| DU-2           | 172L             | 172+65.00 | 51.7' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 172L1            | 172+70.90 | 55.8' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 172L2            | 172+74.20 | 68.1' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 172R             | 172+90.00 | 48.0' RT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 173L             | 173+29.80 | 53.5' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 173L1            | 173+03.60 | 42.0' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | 1            |          |
| DU-2           | 174L             | 174+00.00 | 48.0' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 174L1            | 174+04.80 | 53.6' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 174L2            | 174+32.80 | 12.0' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 175L             | 175+40.00 | 48.0' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 175R             | 175+39.95 | 48.0' RT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 175L1            | 175+43.80 | 53.8' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 175L2            | 175+71.50 | 4.3' LT  | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 175L3            | 175+16.62 | 42.0' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | 1            |          |
| DU-2           | 175R2            | 175+72.40 | 3.0' RT  | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 175R1            | 175+86.20 | 57.1' RT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 176R             | 176+86.40 | 56.8' RT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 176L             | 176+82.80 | 53.8' RT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 176L1            | 176+96.90 | 70.7' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | -            |          |
| DU-2           | 176L2            | 176+93.87 | 42.0' LT | -                          | -                           | -                    | -        | -              | -             | -            | -            | -            | -             | -                | -           | -           | -           | -           | -             | -            | -            | -                 | -           | -               | 1            |          |
| SUB-TOTAL1     |                  |           |          | 0                          | 0                           | 0                    | 0        | 0              | 3             | 4            | 21           | 0            | 0             | 2                | 11          | 4           | 0           | 0           | 0             | 0            | 0            | 0                 | 5           | 0               |              |          |

• FLAT SLAB TOP  
C - W/TYPER TF-1 CHECK VALVE

| REVISIONS  |                 | DATE | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD) |
|--|-----------------|------|---|
| NAME   |                 |      |   |
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| SCALE: N/A   | DRAWN BY: JTF   |      |   |
| DATE: 12/07-08   | CHECKED BY: RCH |      |   |
| <b>McDonough Associates Inc.</b><br>Engineers / Architects |                 |      |   |

PROPOSED DRAINAGE STRUCTURE SCHEDULE

| DRAWING NUMBER | STRUCTURE NUMBER | STATION   | OFFSET   | REINFORCED CONC |            |      |                     |           | PRECAST REINFORCED CONCRETE |         |         |         |         | CATCH BASINS, TYPE A |         |        |         |         |         | CB, TYPE C |         |         |      | MANHOLES, TYPE A |         |          | MH DT   | INLETS |   | JUNCTION CHAMBERS |   | SANITARY | RESTRICTOR | SS PLUGS |   |   |  |
|----------------|------------------|-----------|----------|-----------------|------------|------|---------------------|-----------|-----------------------------|---------|---------|---------|---------|----------------------|---------|--------|---------|---------|---------|------------|---------|---------|------|------------------|---------|----------|---------|--------|---|-------------------|---|----------|------------|----------|---|---|--|
|                |                  |           |          | END SECTIONS    |            |      | FLARED END SECTIONS |           | 4' DIAMETER                 |         |         |         |         | 5' DIA               | TYPE 1F | TYPE 8 | 4' DIA. | 5' DIA. | 6' DIA. | 5' DIA.    | TYPE A  |         | TYPE |                  | MANHOLE | MH TA 6' | INSTALL |        |   |                   |   |          |            |          |   |   |  |
|                |                  |           |          | DOUBLE 24"      | TRIPLE 24" | 12"  | 18"                 | EQ RS 30" | T8 GRATE                    | T23 F&G | T24 F&G | T24 F&G | T24 F&G | OPEN LID             | GRATE   | T1F CL | T1F CL  | T1F CL  | T1F CL  | T8 GRATE   | T24 F&G | SPECIAL | 1    | 4' DIA           | DIA     | TIF CL   | INSTALL |        |   |                   |   |          |            |          |   |   |  |
|                |                  |           |          | EACH            | EACH       | EACH | EACH                | EACH      | EACH                        | EACH    | EACH    | EACH    | EACH    | EACH                 | EACH    | EACH   | EACH    | EACH    | EACH    | EACH       | EACH    | EACH    | EACH | EACH             | EACH    | EACH     | EACH    |        |   |                   |   |          |            |          |   |   |  |
| DU-2           | 177R             | 177+62.00 | 48.0' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 177L             | 177+62.00 | 60.0' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 177L1            | 177+61.86 | 69.6' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | 1      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 178L1            | 178+11.83 | 69.6' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 178L2            | 178+27.00 | 71.7' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 178L3            | 178+75.70 | 58.0' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 178R1            | 178+75.70 | 48.0' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 178L6            | 178+80.74 | 74.3' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | 1       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 178L4            | 178+85.73 | 57.4' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | 1       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 178R2            | 178+85.74 | 48.0' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | 1      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 178L7            | 178+90.74 | 3.0' LT  | -               | -          | -    | -                   | -         | -                           | -       | -       | 1       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 178L5            | 178+95.73 | 56.8' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 178R3            | 178+95.74 | 48.0' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 28R1             | 28+28.59  | 24.9' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 28L1             | 28+28.59  | 31.7' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 28R2             | 28+38.59  | 26.4' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 28L2             | 28+38.59  | 31.8' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 29R              | 29+12.12  | 32.2' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 29L              | 29+11.73  | 35.5' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 31R1             | 31+25.08  | 32.0' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 31L1             | 31+25.08  | 32.0' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 31R2             | 31+35.08  | 32.0' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-2           | 31L2             | 31+35.08  | 32.0' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-3           | 179L             | 179+03.37 | 2.9' LT  | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-3           | 179L1            | 179+09.50 | 46.4' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-3           | 179L2            | 179+21.60 | 5.7' RT  | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-3           | 180R             | 180+29.97 | 41.2' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-3           | 180L             | 180+30.86 | 41.5' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-3           | 180L             | 180+37.50 | 43.4' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-3           | 181L             | 181+36.30 | 53.9' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-3           | 182L             | 182+21.50 | 53.1' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-4           | 422R             | 422+01.40 | 40.0' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-4           | 422L1            | 422+00.70 | 33.1' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-4           | 422L             | 422+01.40 | 52.0' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-4           | 423L             | 423+75.30 | 52.0' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-4           | 423L1            | 423+83.65 | 33.1' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-4           | 423              | 423+98.30 | 0.0' RT  | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-4           | 424R             | 424+16.40 | 40.0' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-4           | 425L             | 425+70.30 | 42.3' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-4           | 425L1            | 425+76.70 | 33.1' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-4           | 426R             | 426+26.90 | 40.0' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-5           | 427L             | 427+70.30 | 40.0' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-5           | 427L1            | 427+69.70 | 33.1' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-5           | 428R             | 428+01.94 | 44.9' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-5           | 429              | 429+22.70 | 1.1' LT  | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-5           | 429R             | 429+70.25 | 52.0' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-5           | 429L             | 429+70.25 | 52.0' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-5           | 429R2            | 429+75.00 | 12.0' RT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-5           | 429L1            | 429+75.25 | 46.0' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| DU-5           | 432L             | 432+20.20 | 49.6' LT | -               | -          | -    | -                   | -         | -                           | -       | -       | -       | -       | -                    | -       | -      | -       | -       | -       | -          | -       | -       | -    | -                | -       | -        | -       | -      | - | -                 | - | -        | -          | -        | - | - |  |
| SUB-TOTAL2     |                  |           |          | 0               | 0          | 0    | 0                   | 0         | 1                           | 3       | 28      | 0       | 0       | 2                    | 2       | 8      | 0       | 0       | 0       | 2          | 1       | 1       | 0    | 1                |         |          |         |        |   |                   |   |          |            |          |   |   |  |

CONTRACT # 62880

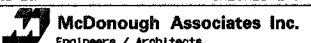
• FLAT SLAB TOP  
C - WITH TYPE TF-1 CHECK VALVE

| REVISIONS | NAME | DATE |
|-----------|------|------|
|           |      |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

SCHEDULE OF QUANTITIES

SCALE: N/A DRAWN BY: JTF  
DATE: 12-15-08 CHECKED BY: RCH



McDonough Associates Inc.  
Engineers / Architects



PROPOSED DRAINAGE STRUCTURE SCHEDULE

| DRAWING NUMBER   | STRUCTURE NUMBER | STATION   | OFFSET   | REINFORCED CONC |            | PRECAST REINFORCED CONCRETE |      |           | CATCH BASINS, TYPE A |         |         | CB, TYPE C |          | MANHOLES, TYPE A |         |         |         |        | MH DT    |         | INLETS  |         | JUNCTION CHAMBERS |            | SANITARY | RESTRICTOR | SS PLUGS |   |   |
|------------------|------------------|-----------|----------|-----------------|------------|-----------------------------|------|-----------|----------------------|---------|---------|------------|----------|------------------|---------|---------|---------|--------|----------|---------|---------|---------|-------------------|------------|----------|------------|----------|---|---|
|                  |                  |           |          | END SECTIONS    |            | FLARED END SECTIONS         |      |           | 4' DIAMETER          |         |         | TYPE 1F    | TYPE 8   | 4' DIA.          | 5' DIA. | 6' DIA. | 5' DIA. | TYPE A |          | TYPE    |         | MANHOLE | MH TA 6'          | INSTALL    |          |            |          |   |   |
|                  |                  |           |          | DOUBLE 24"      | TRIPLE 24" | 12"                         | 18"  | EQ RS 30" | T8 GRATE             | T23 F&G | T24 F&G | T24 F&G    | OPEN LID | GRATE            | T1F CL  | T1F CL  | T1F CL  | T1F CL | T8 GRATE | T24 F&G | SPECIAL | 1       | 4' DIA            | DIA TIF CL | INSTALL  |            |          |   |   |
|                  |                  |           |          | EACH            | EACH       | EACH                        | EACH | EACH      | EACH                 | EACH    | EACH    | EACH       | EACH     | EACH             | EACH    | EACH    | EACH    | EACH   | EACH     | EACH    | EACH    | EACH    | EACH              | EACH       | EACH     | EACH       | EACH     |   |   |
| DU-5             | 432R             | 432+27.00 | 61.8' RT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 433L             | 433+10.10 | 49.5' LT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 433L4            | 433+25.10 | 9.0' LT  | -               | -          | -                           | -    | -         | -                    | 1       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 433R             | 433+25.08 | 52.0' RT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 433R2            | 433+25.08 | 61.8' RT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 433R1            | 433+35.08 | 52.1' RT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 433L6            | 433+07.80 | 58.3' LT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | 1       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 433L5            | 433+35.08 | 9.0' LT  | -               | -          | -                           | -    | -         | -                    | 1       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 433L1            | 433+30.10 | 51.1' LT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 433L3            | 433+38.70 | 61.4' LT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 433L2            | 433+40.10 | 53.8' LT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 435R3            | 435+92.10 | 9.0' RT  | -               | -          | -                           | -    | -         | -                    | 1       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 435L             | 435+55.98 | 52.0' LT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 435L1            | 435+65.98 | 52.0' LT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 436R3            | 436+02.10 | 9.0' RT  | -               | -          | -                           | -    | -         | -                    | 1       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 435R1            | 435+65.98 | 52.1' RT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 435R2            | 435+78.10 | 52.0' RT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 435R5            | 435+78.09 | 9.0' RT  | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | 1       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 435L2            | 435+78.10 | 60.3' LT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 435R             | 435+95.30 | 52.0' RT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 436R2            | 436+05.40 | 52.0' RT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 436L             | 436+25.09 | 52.0' LT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 436L1            | 436+25.09 | 60.1' LT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 436R1            | 436+70.00 | 9.0' RT  | -               | -          | -                           | -    | -         | -                    | 1       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 436R             | 436+84.87 | 51.0' RT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 437L             | 437+25.09 | 52.0' LT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 437L1            | 437+25.09 | 60.0' LT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | 1       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 438L1            | 438+75.10 | 59.0' LT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 438L             | 438+75.10 | 52.0' LT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 438R1            | 438+75.10 | 6.0' RT  | -               | -          | -                           | -    | -         | 1                    | -       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 438R             | 438+75.10 | 40.0' RT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 440R             | 440+75.10 | 40.0' RT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 440              | 440+75.10 | 0.0' LT  | -               | -          | -                           | -    | -         | 1                    | -       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 440L             | 440+75.10 | 44.8' LT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-5             | 440L1            | 440+75.10 | 54.5' LT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | 1       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-6             | 442L             | 441+99.80 | 46.3' LT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-6             | 442R             | 442+00.00 | 11.6' RT | -               | -          | -                           | -    | -         | -                    | 1       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-6             | 444L             | 444+86.08 | 34.0' LT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-6             | 445R             | 445+25.09 | 46.0' RT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-6             | 447L1            | 447+11.89 | 38.4' LT | -               | -          | -                           | -    | -         | -                    | -       | -       | -          | -        | -                | -       | 1       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-6             | 447L             | 447+20.00 | 42.2' LT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-6             | 447L2            | 447+20.00 | 3.0' LT  | -               | -          | -                           | -    | -         | -                    | 1       | -       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| DU-6             | 447R             | 447+20.00 | 53.6' RT | -               | -          | -                           | -    | -         | -                    | -       | 1       | -          | -        | -                | -       | -       | -       | -      | -        | -       | -       | -       | -                 | -          | -        | -          | -        | - |   |
| <b>SUBTOTAL3</b> |                  |           |          | 0               | 0          | 0                           | 0    | 0         | 2                    | 7       | 21      | 0          | 0        | 0                | 8       | 4       | 1       | 0      | 0        | 0       | 0       | 0       | 0                 | 0          | 0        | 0          | 0        | 0 | 0 |
| <b>TOTAL</b>     |                  |           |          | 0               | 0          | 0                           | 0    | 0         | 6                    | 14      | 70      | 0          | 0        | 4                | 21      | 16      | 1       | 0      | 0        | 2       | 1       | 1       | 5                 | 1          |          |            |          |   |   |

CONTRACT # 62880

\* FLAT SLAB TOP

GRATING FOR CONCRETE FLARED END SECTION 12" = 2 EACH  
 GRATING FOR CONCRETE FLARED END SECTION 18" = 2 EACH  
 GRATING FOR CONCRETE FLARED END SECTION EQUIVALENT ROUND SIZE 30" = 1 EACH

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

**SCHEDULE OF QUANTITIES**

SCALE: N/A  
 DATE: 12-15-04

DRAWN BY: JTF  
 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects

### STORM AND SANITARY SEWER SCHEDULE

CONTRACT # 62880

| DRAWING<br>NUMBER | STRUCTURE                              | TO<br>STRUCTURE | SS 1 RCP | SS 1 RCEP | SS 2 RCP | SS 2 RCP | SS 2 RCP | SS 2 RCP | SS 2 RCP | SS 2 RCP | SS RG CL | STORM SEW | STORM SEW | STORM SEW | STORM SEW | SAN SEW | SAN SEW | PIPE CULV | PIPE CULV | TRENCH   |
|-------------------|--|-----------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|---------|---------|-----------|-----------|----------|
|                   |  |                 | CL 4 12  | S38R24    | CL 3 12  | CL 3 15  | CL 3 18  | CL 3 21  | CL 3 24  | CL 3 30  | A 2 30   | D I 15    | D I 12    | D I 21    | D I 24    | 8       | 10      | TYPE 1 24 | TYPE 2 24 | BACKFILL |
|                   |  |                 | FOOT     | FOOT      | FOOT     | FOOT     | FOOT     | FOOT     | FOOT     | FOOT     | FOOT     | FOOT      | FOOT      | FOOT      | FOOT      | FOOT    | FOOT    | FOOT      | FOOT      | CU YD    |
| DU-1              | 160R2                                  | 160             |          |           | 48       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 17       |
| DU-1              | 160                                    | 161L            |          |           | 48       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 17       |
| DU-1              | 161L                                   | 161L1           |          |           | 9        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-1              | 161L1                                  | 162L1           |          |           | 138      |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-1              | 162L                                   | 162L1           |          |           | 4        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-1              | 162R                                   | 162L            |          |           | 94       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 34       |
| DU-1              | 162L1                                  | 164L1           |          |           |          | 146      |          |          |          |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-1              | 164L                                   | 164L1           |          |           | 4        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 33       |
| DU-1              | 164R                                   | 164L            |          |           | 92       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 24       |
| DU-1              | 164R1                                  | 164R            |          |           | 66       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-1&2            | 164L1                                  | 165L1           |          |           |          | 147      |          |          |          |          |          |           |           |           |           |         |         |           |           | 13       |
| DU-2              | 165L                                   | 165L1           |          |           | 4        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 40       |
| DU-2              | 165L2                                  | 165L            |          |           | 37       |          |          |          |          |          |          |           |           |           |           |         |         |           |           |          |
| DU-2              | 165L1                                  | 166L            |          |           |          |          | 70       |          |          |          |          |           |           |           |           |         |         |           |           |          |
| DU-2              | 166R                                   | 166L            |          |           | 111      |          |          |          |          |          |          |           |           |           |           |         |         |           |           |          |
| DU-2              | 166L                                   | 167L1           |          |           |          |          | 122      |          |          |          |          |           |           |           |           |         |         |           |           |          |
| DU-2              | SEE DU-5 FOR 159TH STREET INTERSECTION |                 |          |           |          |          |          |          |          |          |          |           |           |           |           |         |         |           |           |          |
| DU-2              | 167L                                   | 167L1           |          |           | 4        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-2              | 170L2                                  | 171L3           |          |           |          |          |          |          |          |          |          |           |           |           |           | 103     |         |           |           |          |
| DU-2              | 171L3                                  | EXMH            |          |           |          |          |          |          |          |          |          |           |           |           |           | 109     |         |           |           |          |
| DU-2              | 171L                                   | 171L1           |          |           | 11       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 4        |
| DU-2              | 171L1                                  | 171L2           |          |           | 47       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 17       |
| DU-2              | 171L2                                  | 172L1           |          |           |          | 91       |          |          |          |          |          |           |           |           |           |         |         |           |           | 34       |
| DU-2              | 172L                                   | 172L1           |          |           | 4        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-2              | 172L2                                  | 172L1           |          |           | 8        |          |          |          |          |          |          |           |           |           |           |         |         |           |           |          |
| DU-2              | 172R                                   | 172L1           |          |           | 102      |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 37       |
| DU-2              | 172L1                                  | 173L            |          |           |          |          |          | 55       |          |          |          |           |           |           |           |         |         |           |           |          |
| DU-2              | 173L                                   | 174L1           |          |           |          |          |          | 71       |          |          |          |           |           |           |           |         |         |           |           |          |
| DU-2              | EXMH                                   | 173L1           |          |           |          |          |          |          |          |          |          |           |           |           |           | 15      |         |           |           |          |
| DU-2              | 173L1                                  | 175L3           |          |           |          |          |          |          |          |          |          |           |           |           |           | 210     |         |           |           |          |
| DU-2              | 174L                                   | 174L1           |          |           | 4        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-2              | 174L2                                  | 174L            |          |           | 45       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 16       |
| DU-2              | 174L1                                  | 175L1           |          |           |          |          |          |          | 134      |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-2              | 175L                                   | 175L1           |          |           | 3        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 33       |
| DU-2              | 175R                                   | 175L            |          |           | 92       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 3        |
| DU-2              | 175R1                                  | 175R            | 44       |           |          |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 19       |
| DU-2              | 175L2                                  | 175L1           | 53       |           |          |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-2              | 175R2                                  | 175L2           | 4        |           |          |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 52       |
| DU-2              | 175L1                                  | 176L            |          |           |          |          |          |          | 134      |          |          |           |           |           |           |         |         |           |           |          |
| DU-2              | EXMH                                   | 175L3           |          |           |          |          |          |          |          |          |          |           |           |           |           | 15      |         |           |           |          |
| DU-2              | 175L3                                  | 176L2           |          |           |          |          |          |          |          |          |          |           |           |           |           | 175     |         |           |           |          |
| DU-2              | 176L2                                  | EXMH            |          |           |          |          |          |          |          |          |          |           |           |           |           | 15      |         |           |           |          |
| DU-2              | 176L                                   | 176L1           |          |           |          |          |          |          |          |          |          |           |           | 17        |           |         |         |           |           | 6        |
| DU-2              | 29L                                    | 176L1           | 26       |           |          |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-2              | 29R                                    | 29L             | 64       |           |          |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 23       |
| DU-2              | 28L2                                   | 176L1           | 91       |           |          |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-2              | 28L1                                   | 28L2            | 6        |           |          |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 2        |
| DU-2              | 28R2                                   | 28L2            | 55       |           |          |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 20       |
| DU-2              | 28R1                                   | 28R2            | 6        |           |          |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 2        |
| DU-2              | 31R2                                   | 31R1            |          |           | 6        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 2        |
| <b>SUB-TOTAL1</b> |  |                 | 349      | 0         | 981      | 384      | 318      | 268      | 0        | 0        | 0        | 0         | 0         | 17        | 0         | 642     | 0       | 0         | 0         | 0        |

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| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)<br><br><b>SCHEDULE OF QUANTITIES</b><br><br>SCALE: N/A<br>DATE: 12-05-08<br>DRAWN BY: JTF<br>CHECKED BY: RCH |
| NAME      | DATE |  |
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FILES  
DATES  
TIMES

|             |         |        |              |           |
|-------------|---------|--------|--------------|-----------|
| F.A.D. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 351         | 537 R-1 | COOK   | 245          | 25        |

STORM AND SANITARY SEWER SCHEDULE

|                              |                  |
|------------------------------|------------------|
| STA.                         | TO STA.          |
| FED. ROAD DIST. NO. ILLINOIS | FED. AID PROJECT |

CONTRACT # 62880

| DRAWING NUMBER | STRUCTURE | TO STRUCTURE | SS 1 RCP | SS 1 RCEP | SS 2 RCP | SS 2 RCP | SS 2 RCP | SS 2 RCP | SS 2 RCP | SS 2 RCP | SS RG CL | STORM SEW | STORM SEW | STORM SEW | STORM SEW | SAN SEW | SAN SEW | PIPE CULV | PIPE CULV | TRENCH   |
|----------------|-----------|--------------|----------|-----------|----------|----------|----------|----------|----------|----------|----------|-----------|-----------|-----------|-----------|---------|---------|-----------|-----------|----------|
|                |           |              | CL 4 12  | S38R24    | CL 3 12  | CL 3 15  | CL 3 18  | CL 3 21  | CL 3 24  | CL 3 30  | A 2 30   | D I 15    | D I 12    | D I 21    | D I 24    | 8       | 10      | TYPE 1 24 | TYPE 2 24 | BACKFILL |
|                |           |              | FOOT     | FOOT      | FOOT     | FOOT     | FOOT     | FOOT     | FOOT     | FOOT     | FOOT     | FOOT      | FOOT      | FOOT      | FOOT      | FOOT    | FOOT    | FOOT      | FOOT      | CU YD    |
| DU-2           | 31R1      | 31L1         |          |           | 60       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 22       |
| DU-2           | 31L2      | 31L1         |          |           | 6        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 2        |
| DU-2           | 31L1      | 30L          |          |           | 44       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-2           | 176R      | 177R         |          |           | 73       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 2        |
| DU-2           | 177R      | 177L         |          |           | 104      |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 38       |
| DU-2           | 176L1     | 177L1        |          |           |          |          |          |          |          |          |          |           |           |           |           |         |         |           |           |          |
| DU-2           | 177L      | 177L1        |          |           |          |          |          |          |          |          |          |           | 6         |           |           |         |         | 60        |           | 1        |
| DU-2           | 177L1     | 178L1        |          |           |          |          |          |          |          |          |          |           |           |           |           |         |         |           | 45        |          |
| DU-2           | 178L1     | 178L2        |          |           |          |          |          |          |          |          |          |           |           |           |           |         |         | 10        |           |          |
| DU-2           | 178L3     | 178L4        |          |           | 6        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 2        |
| DU-2           | 178L4     | 178L5        |          |           | 6        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 2        |
| DU-2           | 178L6     | 178L7        |          |           | 6        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 2        |
| DU-2&3         | 178L7     | 179L         |          |           | 9        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 3        |
| DU-2           | 178R1     | 178R2        |          |           | 6        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 2        |
| DU-2           | 178R2     | 178R3        |          |           | 6        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 2        |
| DU-2&3         | 178R3     | 179L         |          |           | 48       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 17       |
| DU-3           | 179L2     | 179L         | 17       |           |          |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 6        |
| DU-3           | 179L      | 179L1        |          |           | 40       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 15       |
| DU-2&3         | 178L5     | 179L1        |          |           | 14       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 5        |
| DU-3           | 179L1     | 180L1        |          |           |          |          |          | 124      |          |          |          |           |           |           |           |         |         |           |           | 47       |
| DU-3           | 180R      | EXCB         | 7        |           |          |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 3        |
| DU-3           | 180L      | EXCB         |          |           | 13       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 5        |
| DU-3           | 180L1     | 181L         |          |           |          |          |          |          |          | 94       |          |           |           |           |           |         |         |           |           | 19       |
| DU-3           | 181L      | 182L         |          |           |          |          |          |          |          | 80       |          |           |           |           |           |         |         |           |           | 15       |
| DU-3           | 182L      | EXCB/MH      |          |           |          |          |          |          |          |          |          |           |           |           |           |         |         | 9         |           |          |
| DU-3           | 182L      | STUB         |          |           |          |          |          |          |          | 8        |          |           |           |           |           |         |         |           |           |          |
| DU-4           | 422L      | 422L1        |          |           | 15       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 5        |
| DU-4           | 422R      | 422L1        |          |           | 70       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 25       |
| DU-4           | 423L1     | 422L1        |          |           |          |          |          |          |          | 178      |          |           |           |           |           |         |         |           |           | 64       |
| DU-4           | 423L      | 423L1        |          |           | 17       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 6        |
| DU-4           | 423       | 423L1        |          |           | 32       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 12       |
| DU-4           | 424R      | 423          |          |           | 40       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 14       |
| DU-4           | 425L1     | 423L1        |          |           |          |          |          |          |          | 188      |          |           |           |           |           |         |         |           |           | 68       |
| DU-4           | 425L      | 425L1        |          |           | 7        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 3        |
| DU-4           | 426R      | 425L1        |          |           | 85       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 31       |
| DU-4&5         | 427L1     | 425L1        |          |           |          |          |          |          |          | 188      |          |           |           |           |           |         |         |           |           | 68       |
| DU-5           | 428R      | 427L1        |          |           | 80       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 29       |
| DU-5           | 427L      | 427L1        |          |           | 3        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-5           | 429L1     | 427L1        |          |           |          |          |          |          |          | 201      |          |           |           |           |           |         |         |           |           | 73       |
| DU-5           | 429L      | 429L1        |          |           | 4        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 1        |
| DU-5           | 429R2     | 429L1        |          |           | 54       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 20       |
| DU-5           | 429       | 429R2        |          |           | 50       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 18       |
| DU-5           | 429R      | 429R2        |          |           | 37       |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 13       |
| DU-5           | 432L      | 429L1        |          |           |          |          |          |          |          |          | 240      |           |           |           |           |         |         |           |           | 69       |
| DU-5           | 432R      | 432L         |          |           |          |          |          |          |          | 107      |          |           |           |           |           |         |         |           |           | 41       |
| DU-5           | 433R2     | 432R         |          |           |          |          |          |          |          | 93       |          |           |           |           |           |         |         |           |           |          |
| DU-5           | 433R      | 433R2        |          |           | 6        |          |          |          |          |          |          |           |           |           |           |         |         |           |           | 2        |
| DU-5           | 167L3     | 433R2        |          |           |          |          |          | 70       |          |          |          |           |           |           |           |         |         |           |           |          |
| DU-5           | 167L1     | 167L3        |          |           |          |          |          | 27       |          |          |          |           |           |           |           |         |         |           |           |          |
| SUB-TOTAL2     |           |              | 24       | 0         | 901      | 40       | 221      | 0        | 382      | 755      | 240      | 0         | 6         | 0         | 124       | 0       | 0       | 0         | 0         | 776      |

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD) |
|-----------|------|---|
| NAME      | DATE |   |
|           |      | SCHEDULE OF QUANTITIES  |
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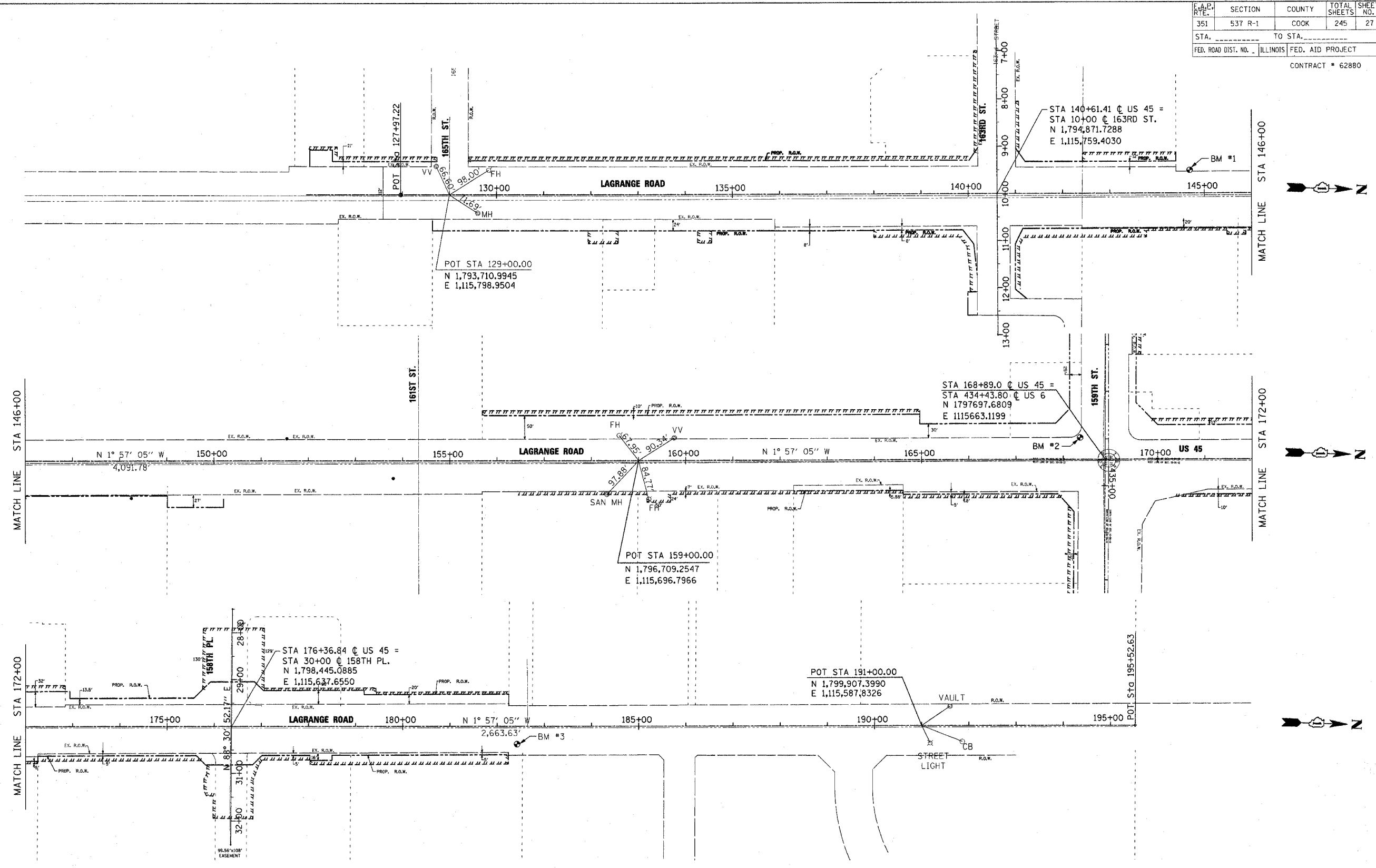
SCALE: N/A  
DATE: 12-05-09  
DRAWN BY: JTF  
CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

FILES  
DATES  
TIMES



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|---------------------------|---------|------------------|--------------|-----------|
| EX. RTE.                  | SECTION | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK             | 245          | 27        |
| STA. _____ TO STA. _____  |         | FED. AID PROJECT |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS         |              |           |
| CONTRACT # 62880          |         |                  |              |           |



**CONTROL POINTS/BENCHMARKS:**  
 BM #1: APPROXIMATE STA. 144+69±  
 IRON ROD CONTROL POINT  
 ELEVATION = 724.04  
 NORTHING = 1795277.7258  
 EASTING = 1115697.0532

BM #2: APPROXIMATE STA. 168+36±  
 IRON ROD CONTROL POINT  
 ELEVATION = 705.63  
 NORTHING = 1797643.1628  
 EASTING = 1115617.9719

BM #3: APPROXIMATE STA. 182+42±  
 IRON ROD CONTROL POINT  
 ELEVATION = 691.39  
 NORTHING = 1799051.5103  
 EASTING = 1115655.1625

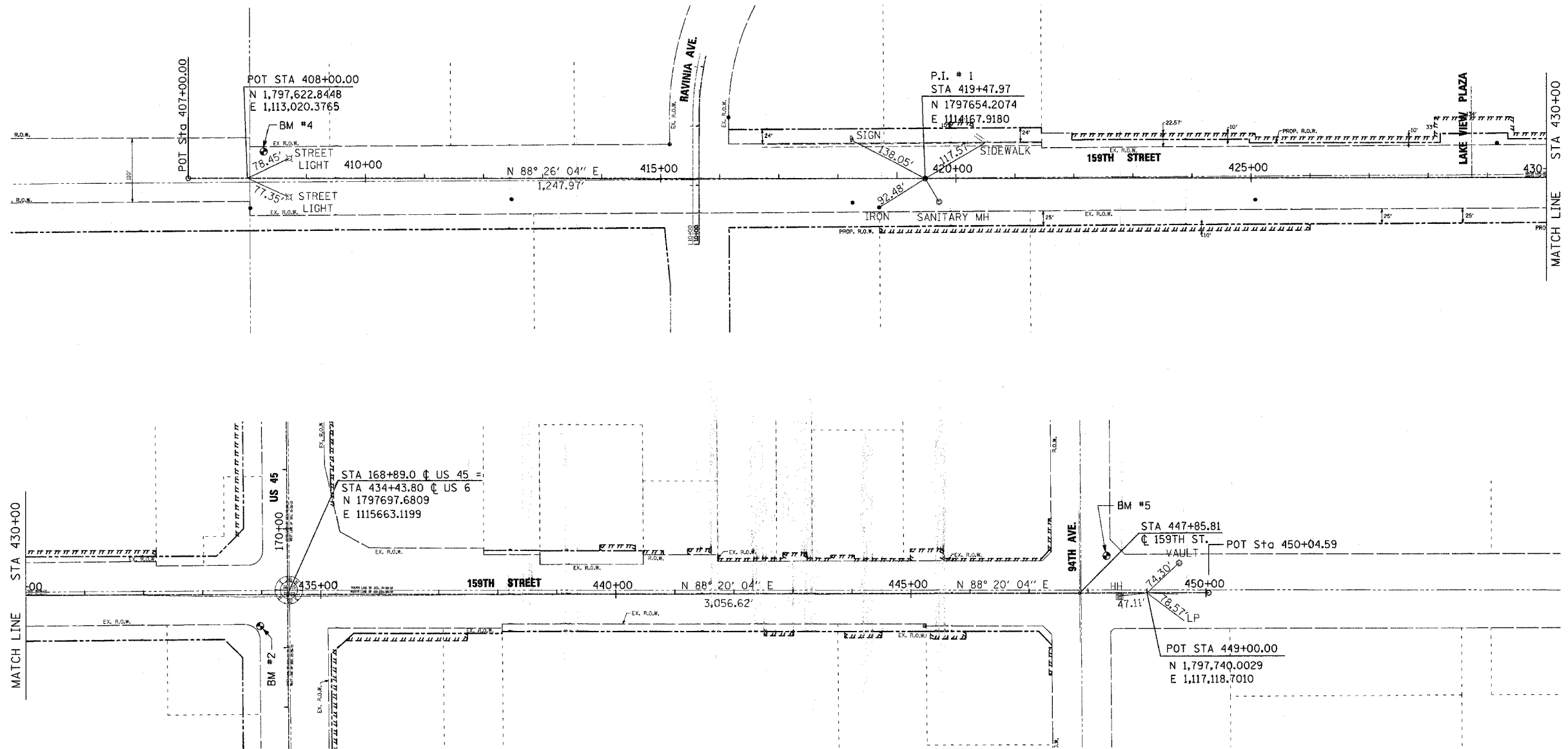
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 45 (LAGRANGE ROAD)  
 ALIGNMENT TIES & BENCHMARKS  
 STA. 127+97.22 TO STA 195+52.63  
 SCALE: 1"=100'  
 DATE: 7-07-06  
 DRAWN BY: JTF  
 CHECKED BY: RCH



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 STIMES

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| F.A.P. R.T.E.             | SECTION | COUNTY        | TOTAL SHEETS     | SHEET NO. |
| 351                       | 537 R-1 | COOK          | 245              | 28        |
| STA. _____                |         | TO STA. _____ |                  |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS      | FED. AID PROJECT |           |
| CONTRACT # 62880          |         |               |                  |           |



**CONTROL POINTS/BENCHMARKS:**

BM #2: APPROXIMATE STA. 168+36±  
SEE DRAWING TB-2 FOR BENCHMARK DATA

BM #4: APPROXIMATE STA. 408+28±  
IRON ROD CONTROL POINT  
ELEVATION = 685.50  
NORTHING = 1797668.6326  
EASTING = 1113046.6994

BM #5: APPROXIMATE STA. 448+32±  
IRON ROD CONTROL POINT  
ELEVATION = 703.06  
NORTHING = 1797800.7929  
EASTING = 1117048.4352

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**US RTE 45 (LAGRANGE ROAD)  
ALIGNMENT TIES & BENCHMARKS  
STA 408+00 TO 94TH AVENUE**  
SCALE: 1"=100'  
DATE: 7-07-06  
DRAWN BY: JTF  
CHECKED BY: RCH



FILES  
DATES  
TIMES



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| F.A.P. DIST. NO.         | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                      | 537 R-1 | COOK                      | 245          | 29        |
| STA. _____ TO STA. _____ |         | ILLINOIS FED. AID PROJECT |              |           |
| CONTRACT # 62880         |         |                           |              |           |

**NOTE 1:**

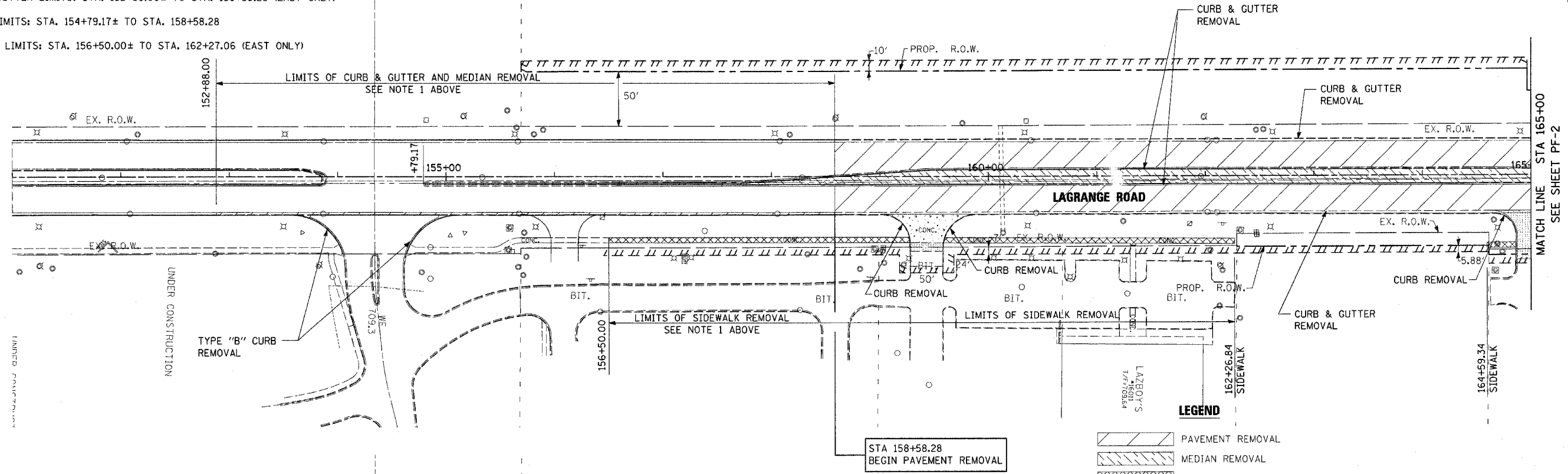
**RESTORATION NOTES:**

CONTRACTOR SHALL REMOVE AND REPLACE CURB & GUTTER, MEDIAN AND SIDEWALK IN-KIND FOR THE FOLLOWING LIMITS:

CURB & GUTTER LIMITS: STA. 152+88.00± TO STA. 158+58.28 (EAST ONLY)

MEDIAN LIMITS: STA. 154+79.17± TO STA. 158+58.28

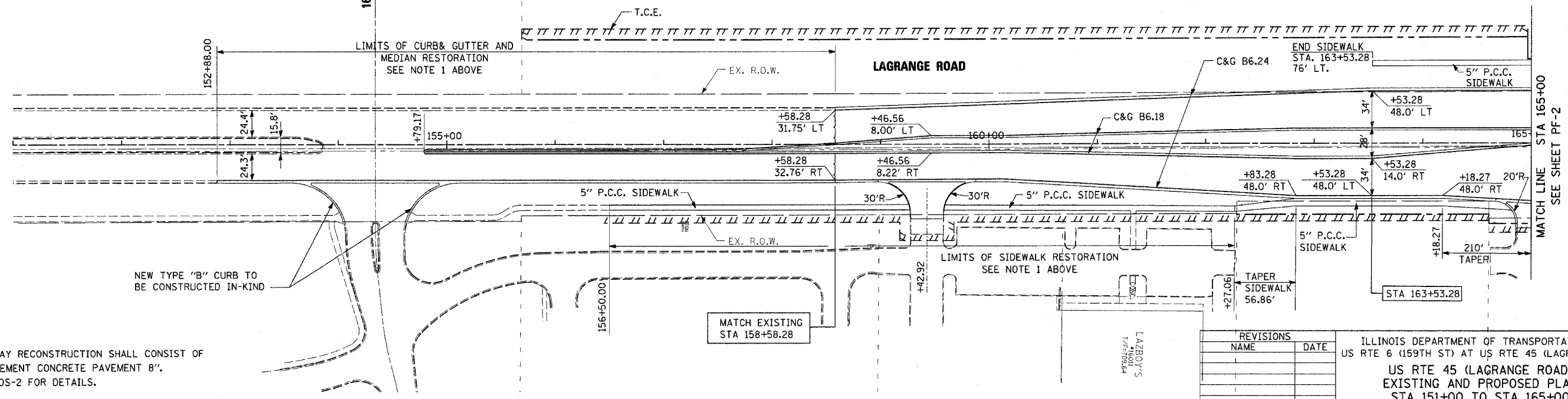
SIDEWALK LIMITS: STA. 156+50.00± TO STA. 162+27.06 (EAST ONLY)



**EXISTING CONDITIONS AND REMOVAL PLAN**

**LEGEND**

|  |   |
|--|---|
|  | PAVEMENT REMOVAL  |
|  | MEDIAN REMOVAL  |
|  | SIDEWALK REMOVAL  |
|  | CONCRETE DRIVEWAY REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL")           |
|  | BITUMINOUS DRIVEWAY/PARKING REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL") |
|  | 5" TREE REMOVAL   |
|  | TEMPORARY EASEMENT  |



**PROPOSED IMPROVEMENT PLAN**

**NOTE 2:**

1. ALL DRIVEWAY RECONSTRUCTION SHALL CONSIST OF PORTLAND CEMENT CONCRETE PAVEMENT 8". SEE SHEET DS-2 FOR DETAILS.
2. CONTRACTOR SHALL CONSTRUCT HANDICAP ACCESSIBILITY RAMPS AT ALL INTERSECTIONS AND DRIVEWAYS. SEE IDOT STANDARD 424001-03.

| REVISIONS |      |
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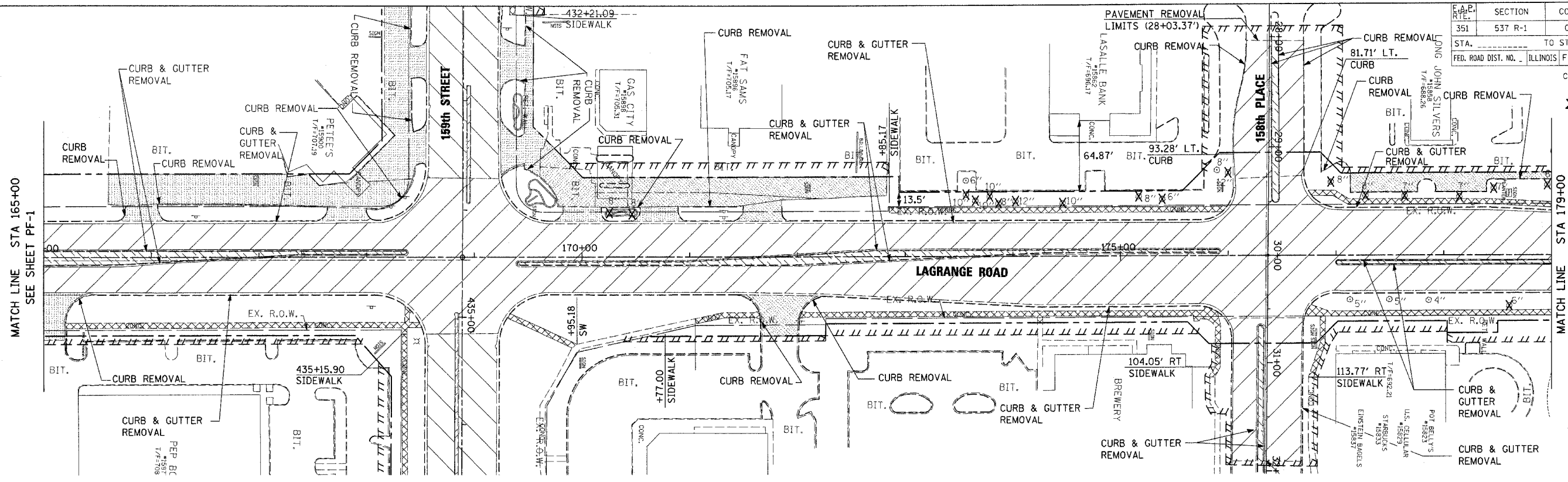
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 45 (LAGRANGE ROAD)  
 EXISTING AND PROPOSED PLAN  
 STA 151+00 TO STA 165+00

SCALE: 1"=50'  
 DATE: 7-07-06  
 DRAWN BY: JTF  
 CHECKED BY: RCH

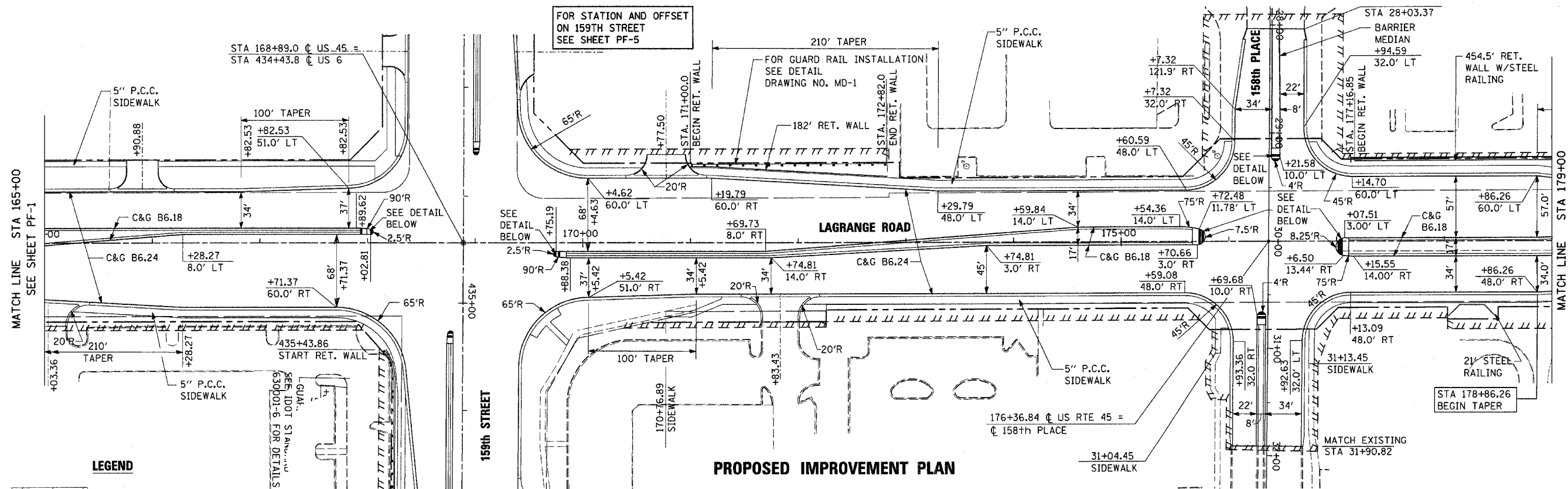
**McDonough Associates Inc.**  
 Engineers / Architects

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| STATE                    | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| ILLINOIS                 | 537 R-1 | COOK  | 245          | 30        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT |              |           |
| CONTRACT # 62880         |         |   |              |           |



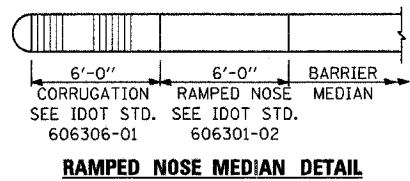
**EXISTING CONDITIONS AND REMOVAL PLAN**



**PROPOSED IMPROVEMENT PLAN**

**LEGEND**

- PAVEMENT REMOVAL
- MEDIAN REMOVAL
- SIDEWALK REMOVAL
- CONCRETE DRIVEWAY REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL")
- BITUMINOUS DRIVEWAY/PARKING REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL")
- TREE REMOVAL
- TEMPORARY EASEMENT



- NOTE 1:**
- ALL DRIVEWAY RECONSTRUCTION SHALL CONSIST OF PORTLAND CEMENT CONCRETE PAVEMENT 8". SEE SHEET DS-2 FOR DETAILS.
  - CONTRACTOR SHALL CONSTRUCT HANDICAP ACCESSIBILITY RAMPS AT ALL INTERSECTIONS AND DRIVEWAYS. SEE IDOT STANDARD 424001.

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**US RTE 45 (LAGRANGE ROAD)**  
 EXISTING AND PROPOSED PLAN  
 STA 165+00 TO STA 179+00

SCALE: 1"=50'  
 DATE: 7-07-06

DRAWN BY: JTF  
 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects

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| F.A.P. RTE.:              | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 53T R-1 | COOK                      | 245          | 31        |
| STA. _____ TO STA. _____  |         | ILLINOIS FED. AID PROJECT |              |           |
| FED. ROAD DIST. NO. _____ |         | CONTRACT # 62880          |              |           |

**NOTE 1:**

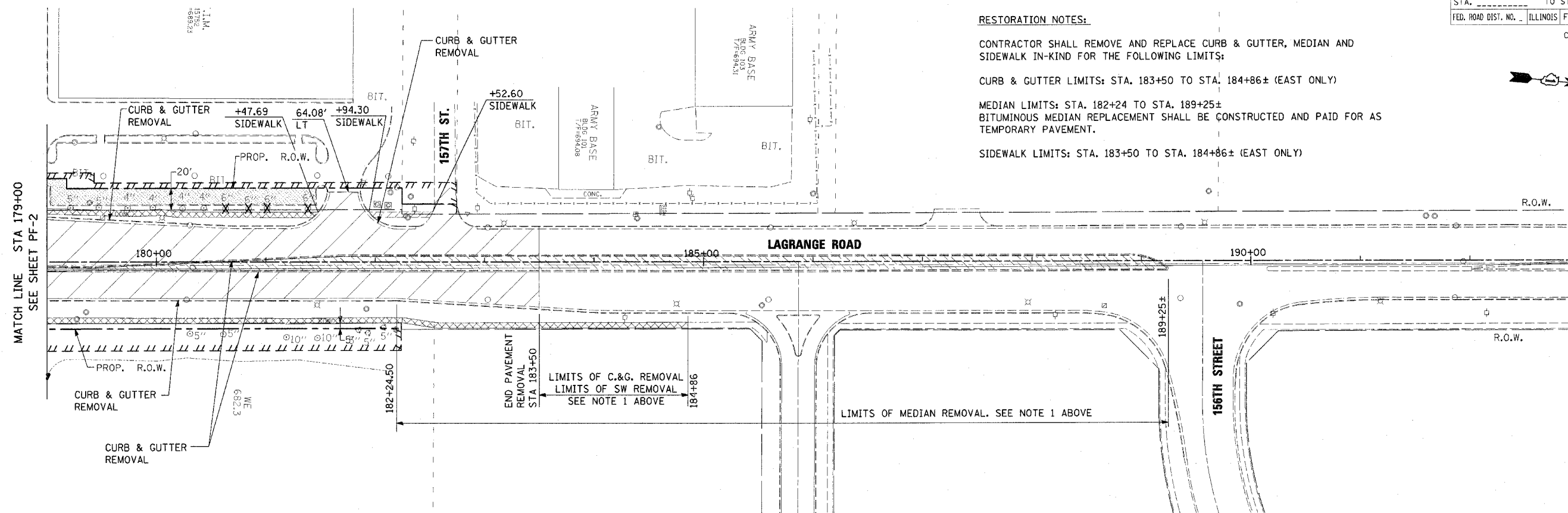
**RESTORATION NOTES:**

CONTRACTOR SHALL REMOVE AND REPLACE CURB & GUTTER, MEDIAN AND SIDEWALK IN-KIND FOR THE FOLLOWING LIMITS:

CURB & GUTTER LIMITS: STA. 183+50 TO STA. 184+86± (EAST ONLY)

MEDIAN LIMITS: STA. 182+24 TO STA. 189+25±  
BITUMINOUS MEDIAN REPLACEMENT SHALL BE CONSTRUCTED AND PAID FOR AS TEMPORARY PAVEMENT.

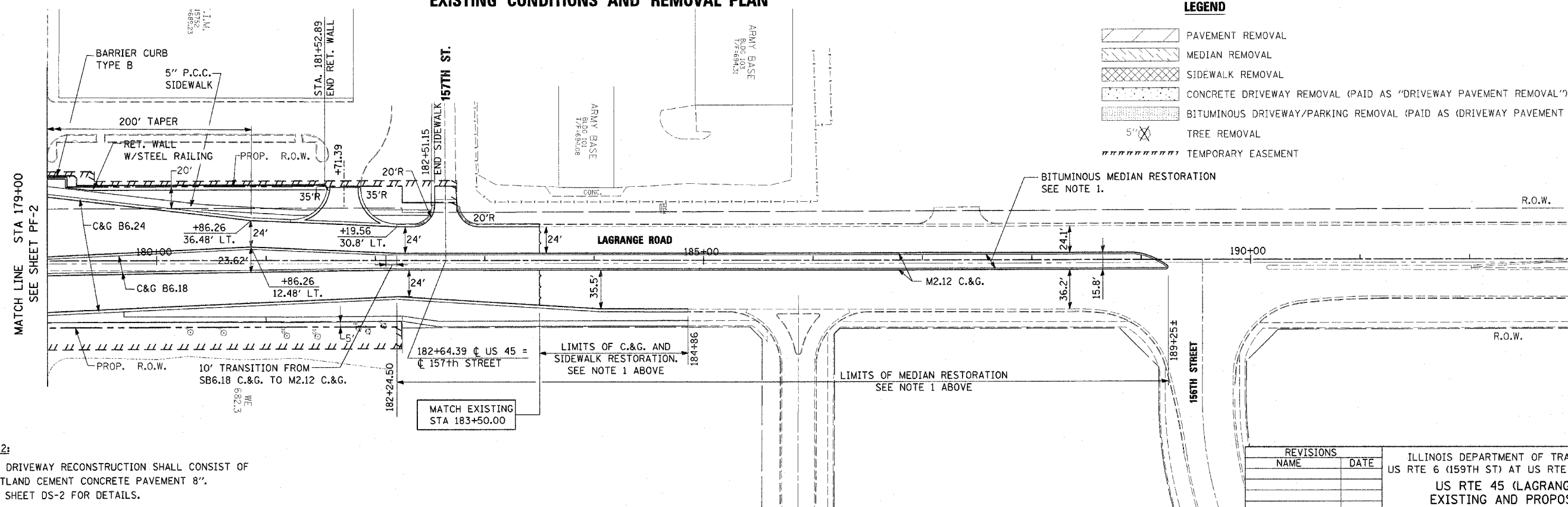
SIDEWALK LIMITS: STA. 183+50 TO STA. 184+86± (EAST ONLY)



**EXISTING CONDITIONS AND REMOVAL PLAN**

**LEGEND**

- PAVEMENT REMOVAL
- MEDIAN REMOVAL
- SIDEWALK REMOVAL
- CONCRETE DRIVEWAY REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL")
- BITUMINOUS DRIVEWAY/PARKING REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL")
- TREE REMOVAL
- TEMPORARY EASEMENT



**PROPOSED IMPROVEMENT PLAN**

**NOTE 2:**

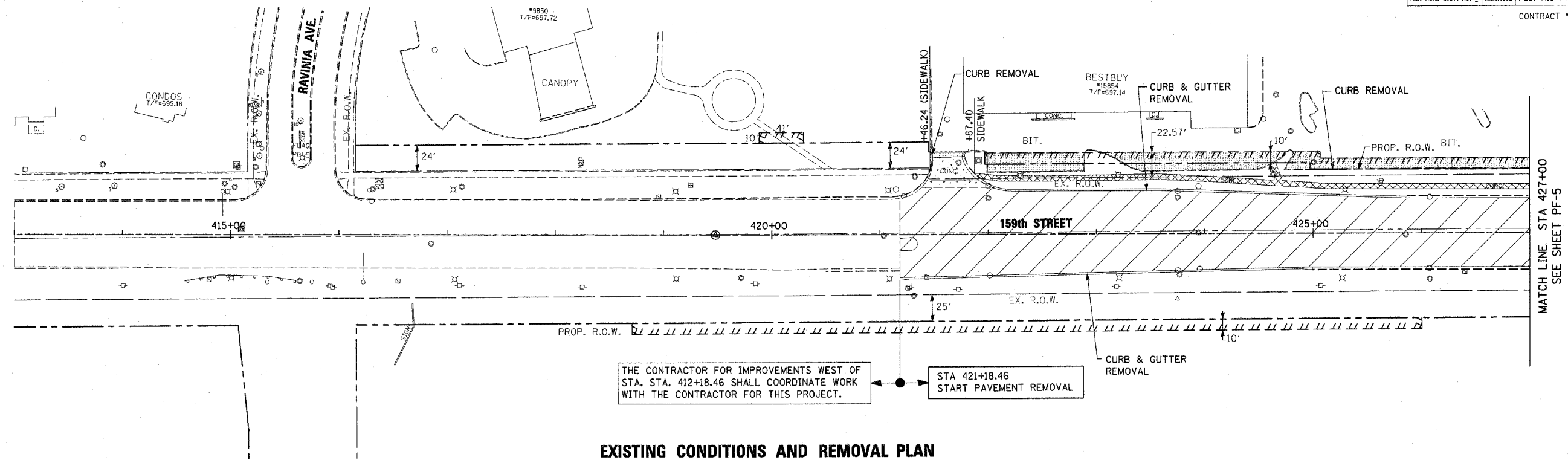
1. ALL DRIVEWAY RECONSTRUCTION SHALL CONSIST OF PORTLAND CEMENT CONCRETE PAVEMENT 8". SEE SHEET DS-2 FOR DETAILS.
2. CONTRACTOR SHALL CONSTRUCT HANDICAP ACCESSIBILITY RAMPS AT ALL INTERSECTIONS AND DRIVEWAYS. SEE IDOT STANDARD 424001.

| REVISIONS |      |
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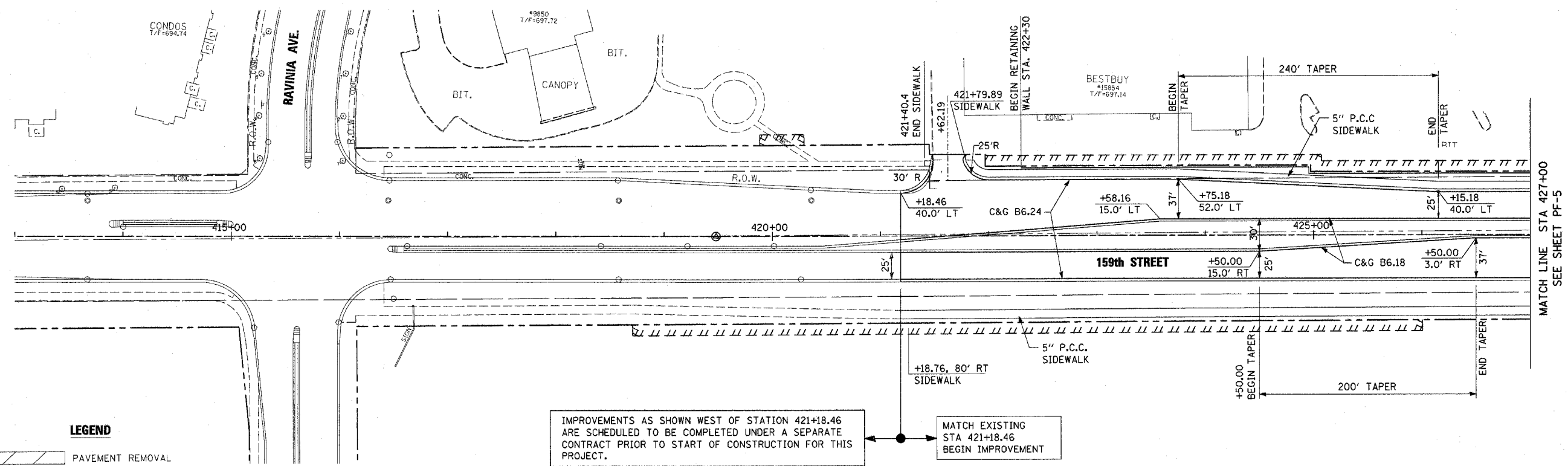
ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**US RTE 45 (LAGRANGE ROAD)**  
**EXISTING AND PROPOSED PLAN**  
STA 179+00 TO STA 193+00  
SCALE: 1"=50'  
DATE: 7-07-06  
DRAWN BY: JTF  
CHECKED BY: RCH

McDonough Associates Inc.  
Engineers / Architects

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**EXISTING CONDITIONS AND REMOVAL PLAN**



IMPROVEMENTS AS SHOWN WEST OF STATION 421+18.46 ARE SCHEDULED TO BE COMPLETED UNDER A SEPARATE CONTRACT PRIOR TO START OF CONSTRUCTION FOR THIS PROJECT.

MATCH EXISTING STA 421+18.46 BEGIN IMPROVEMENT

**LEGEND**

|  |   |
|--|---|
|  | PAVEMENT REMOVAL  |
|  | MEDIAN REMOVAL  |
|  | SIDEWALK REMOVAL  |
|  | CONCRETE DRIVEWAY REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL")           |
|  | BITUMINOUS DRIVEWAY/PARKING REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL") |
|  | 5' TREE REMOVAL   |
|  | TEMPORARY EASEMENT  |

**PROPOSED IMPROVEMENT PLAN**

- NOTE 1:**
- ALL DRIVEWAY RECONSTRUCTION SHALL CONSIST OF PORTLAND CEMENT CONCRETE PAVEMENT 8". SEE SHEET DS-2 FOR DETAILS.
  - CONTRACTOR SHALL CONSTRUCT HANDICAP ACCESSIBILITY RAMPS AT ALL INTERSECTIONS AND DRIVEWAYS. SEE IDOT STANDARD 424001-03.

| REVISIONS |      |
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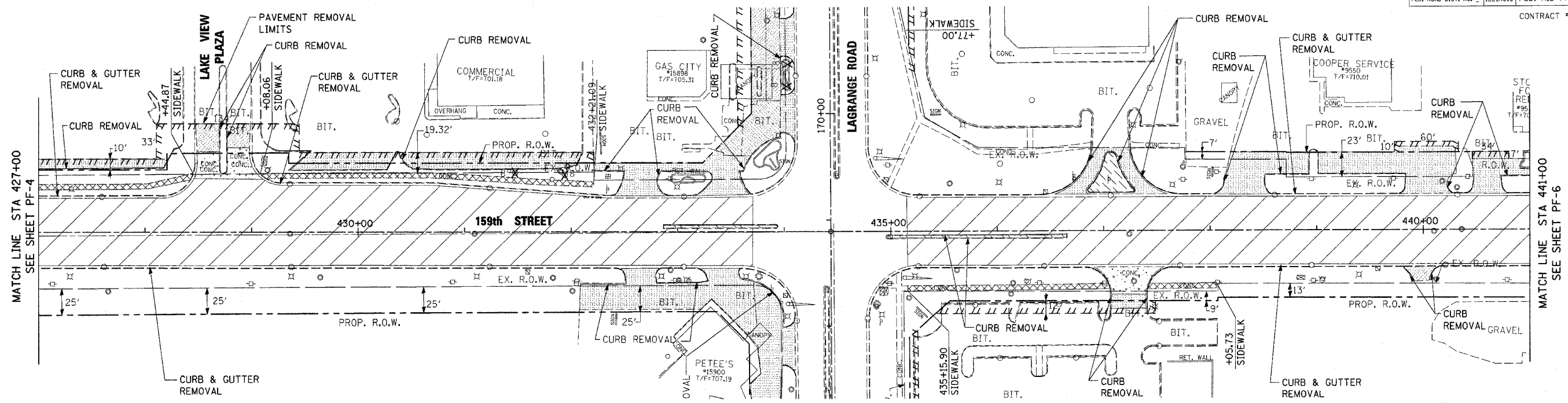
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 6 (159TH STREET)  
 EXISTING AND PROPOSED PLAN  
 STA 413+00 TO STA 427+00

SCALE: 1"=50'      DRAWN BY: JTF  
 DATE: 7-07-06      CHECKED BY: RCH

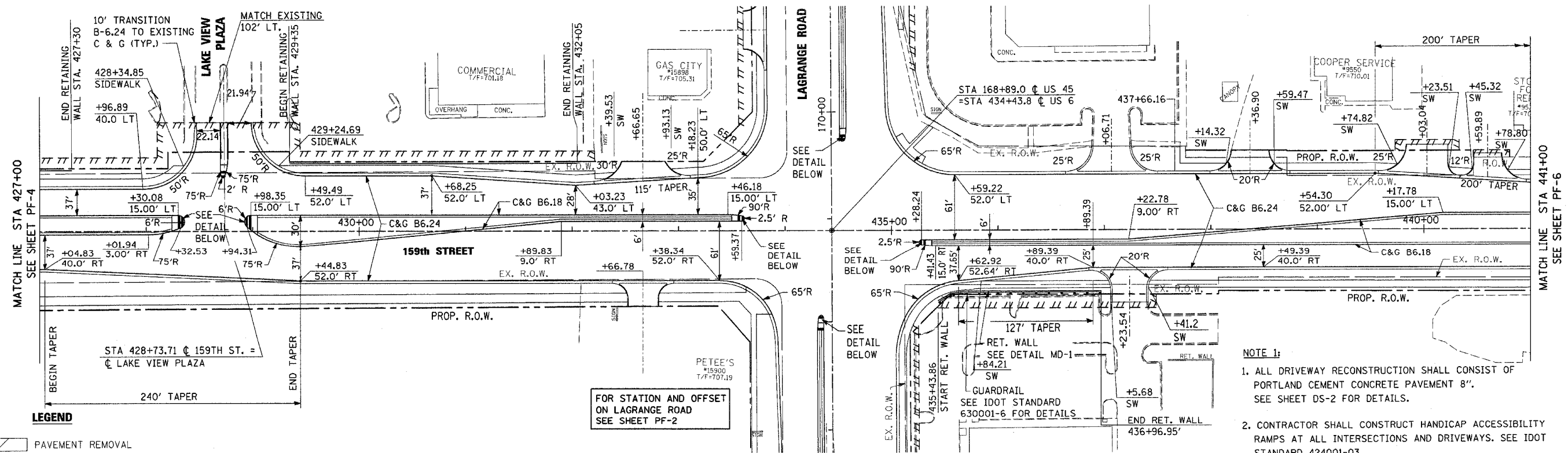
**McDonough Associates Inc.**  
 Engineers / Architects

FILES  
SDATES  
STIMES

CONTRACT # 62880

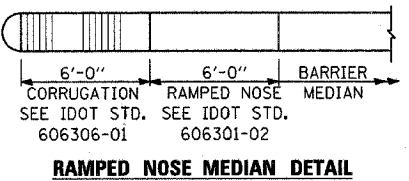


**EXISTING CONDITIONS AND REMOVAL PLAN**



**PROPOSED IMPROVEMENT PLAN**

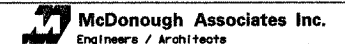
- LEGEND**
- PAVEMENT REMOVAL
  - MEDIAN REMOVAL
  - SIDEWALK REMOVAL
  - CONCRETE DRIVEWAY REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL")
  - BITUMINOUS DRIVEWAY/PARKING REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL")
  - TREE REMOVAL
  - TEMPORARY EASEMENT



- NOTE 1:**
- ALL DRIVEWAY RECONSTRUCTION SHALL CONSIST OF PORTLAND CEMENT CONCRETE PAVEMENT 8". SEE SHEET DS-2 FOR DETAILS.
  - CONTRACTOR SHALL CONSTRUCT HANDICAP ACCESSIBILITY RAMPS AT ALL INTERSECTIONS AND DRIVEWAYS. SEE IDOT STANDARD 424001-03.

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
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|           |      |

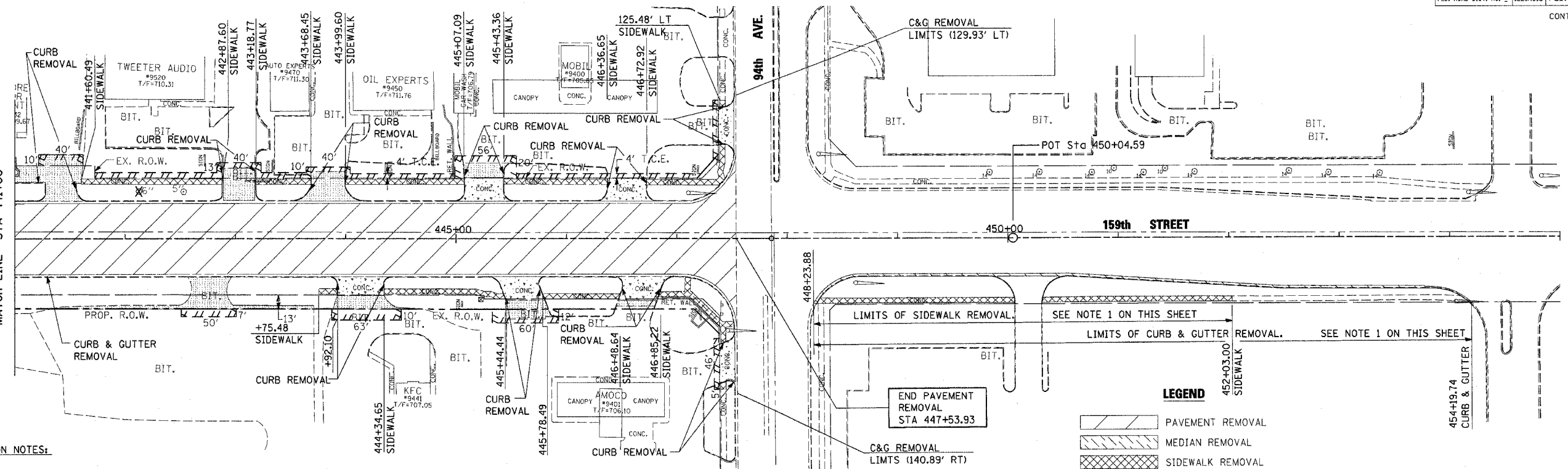
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**US RTE 6 (159TH STREET)**  
**EXISTING AND PROPOSED PLAN**  
 STA 427+00 TO STA 441+00  
 SCALE: 1"=50'  
 DATE: 7-07-06  
 DRAWN BY: JTF  
 CHECKED BY: RCH





|                     |        |                           |           |
|---------------------|--------|---------------------------|-----------|
| SECTION             | COUNTY | TOTAL SHEETS              | SHEET NO. |
| 537 R-1             | COOK   | 245                       | 34        |
| STA. TO STA.        |        | ILLINOIS FED. AID PROJECT |           |
| FED. ROAD DIST. NO. |        | CONTRACT # 62880          |           |

CONTINUED FROM DRAWING PF-5  
MATCH LINE STA 441+00



**NOTE 1:**

**RESTORATION NOTES:**

AT THE TEMPORARY PAVEMENT LOCATION, THE CONTRACTOR SHALL REMOVE AND REPLACE CURB & GUTTER, MEDIAN AND SIDEWALK IN-KIND FOR THE FOLLOWING LIMITS:

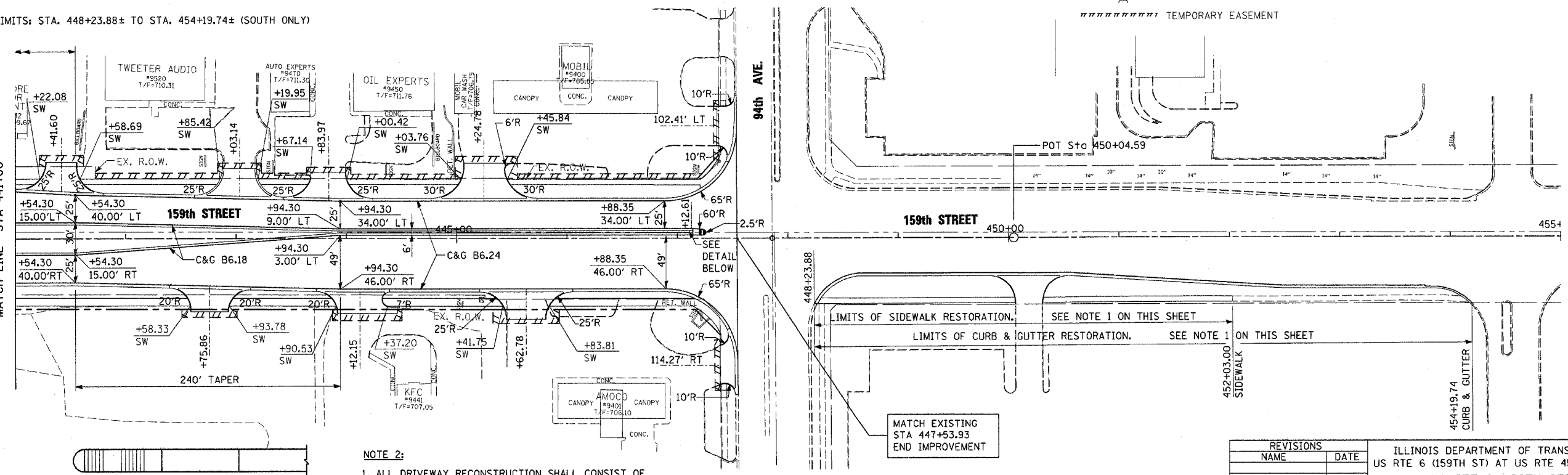
- CURB & GUTTER LIMITS: STA. 448+23.88± TO STA. 454+19.74± (SOUTH ONLY)
- SIDEWALK LIMITS: STA. 448+23.88± TO STA. 454+19.74± (SOUTH ONLY)

**EXISTING CONDITIONS AND REMOVAL PLAN**

**LEGEND**

- PAVEMENT REMOVAL
- MEDIAN REMOVAL
- SIDEWALK REMOVAL
- CONCRETE DRIVEWAY REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL")
- BITUMINOUS DRIVEWAY/PARKING REMOVAL (PAID AS "DRIVEWAY PAVEMENT REMOVAL")
- TREE REMOVAL
- TEMPORARY EASEMENT

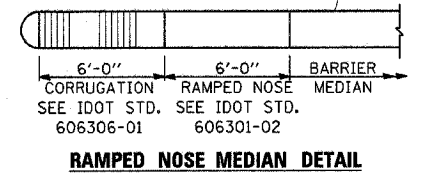
CONTINUED FROM DRAWING PF-5  
MATCH LINE STA 441+00



**NOTE 2:**

- ALL DRIVEWAY RECONSTRUCTION SHALL CONSIST OF PORTLAND CEMENT CONCRETE PAVEMENT 8". SEE SHEET DS-2 FOR DETAILS.
- CONTRACTOR SHALL CONSTRUCT HANDICAP ACCESSIBILITY RAMPS AT ALL INTERSECTIONS AND DRIVEWAYS. SEE IDOT STANDARD 424001-03.

**PROPOSED IMPROVEMENT PLAN**



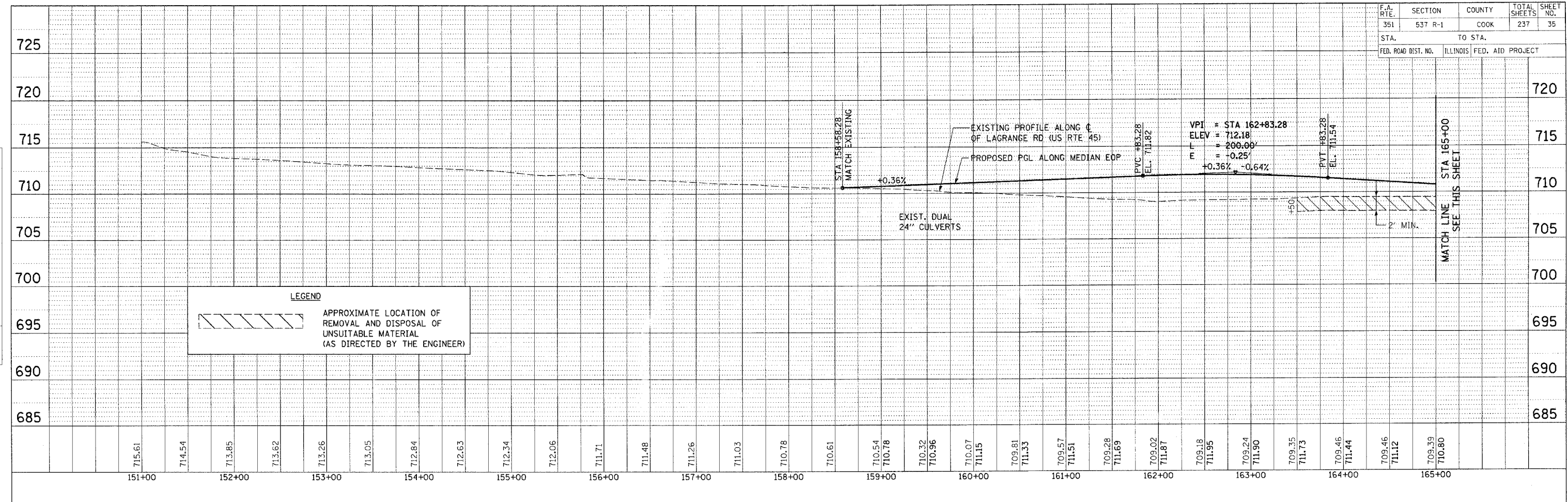
| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
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|           |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
US RTE 6 (159TH STREET)  
EXISTING AND PROPOSED PLAN  
STA 441+00 TO 94TH AVE.  
SCALE: 1"=50'  
DATE: 7-07-06  
DRAWN BY: JTF  
CHECKED BY: RCH


**McDonough Associates Inc.**  
Engineers / Architects

|                     |         |                           |              |           |
|---------------------|---------|---------------------------|--------------|-----------|
| F.A. RTE.           | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                 | 537 R-1 | COOK                      | 237          | 35        |
| STA.                |         | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |         | ILLINOIS FED. AID PROJECT |              |           |

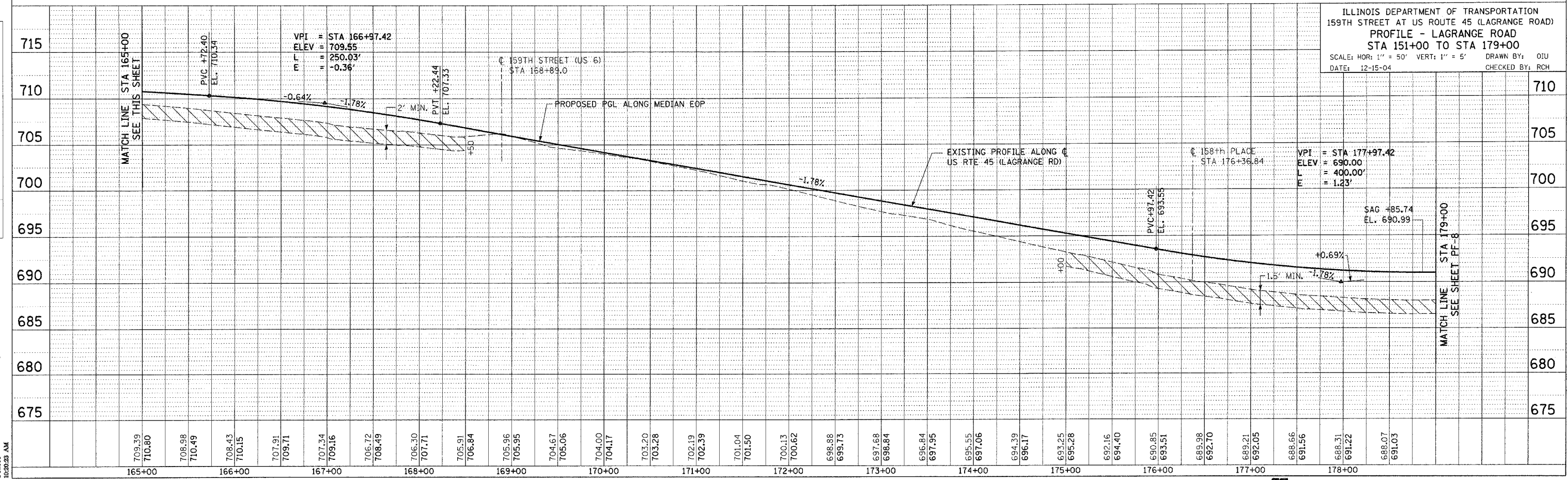
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|---------------|-----------|----|------|
| PLAN          | SURVEYED  | BY | DATE |
| NOTE BOOK NO. | ALIGNED   |    |      |
|               | CHECKED   |    |      |
|               | FILE NAME |    |      |



**LEGEND**

 APPROXIMATE LOCATION OF REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL (AS DIRECTED BY THE ENGINEER)

|               |           |    |      |
|---------------|-----------|----|------|
| PROFILE       | SURVEYED  | BY | DATE |
| NOTE BOOK NO. | ALIGNED   |    |      |
|               | CHECKED   |    |      |
|               | FILE NAME |    |      |



ILLINOIS DEPARTMENT OF TRANSPORTATION  
 159TH STREET AT US ROUTE 45 (LAGRANGE ROAD)  
 PROFILE - LAGRANGE ROAD  
 STA 151+00 TO STA 179+00  
 SCALE: HOR: 1" = 50' VERT: 1" = 5'  
 DATE: 12-15-04  
 DRAWN BY: OJU  
 CHECKED BY: RCH

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 8/22/06  
 10:20:23 AM

US 45 LAGRANGE ROAD

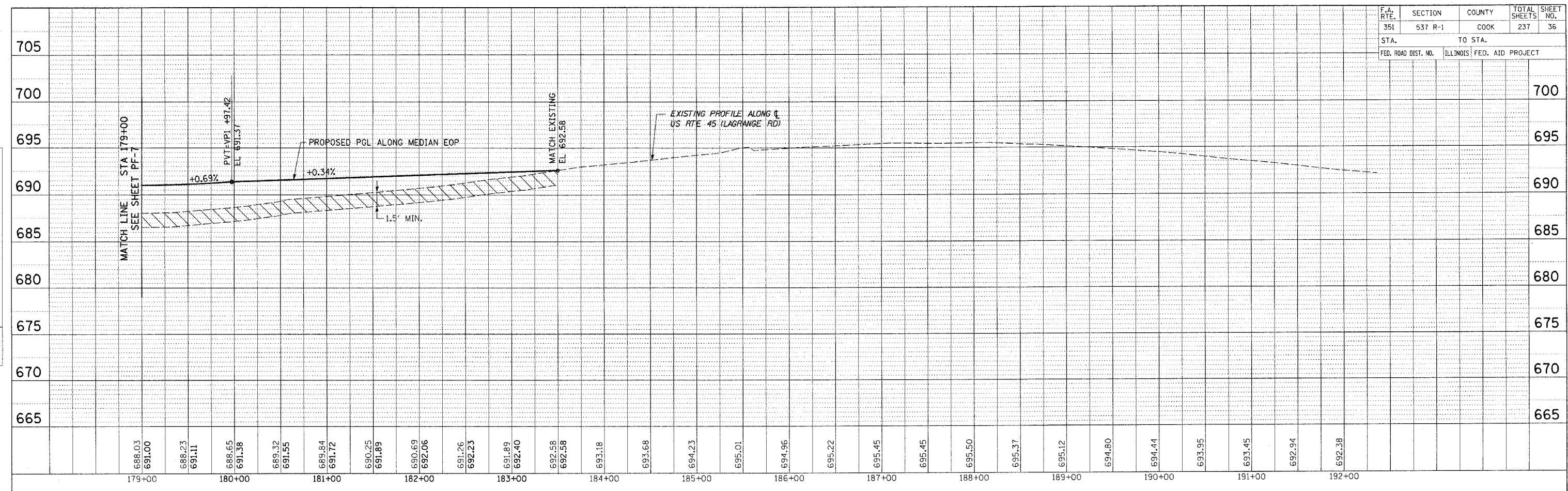
 McDonough Associates Inc.  
 Engineers/Architects

PF-7

8-8-06



|                     |         |                           |              |           |
|---------------------|---------|---------------------------|--------------|-----------|
| F.A. RTE.           | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                 | 537 R-1 | COOK                      | 237          | 36        |
| STA.                |         | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |         | ILLINOIS FED. AID PROJECT |              |           |



MATCH LINE STA 179+00  
SEE SHEET PF-7

PVT=VPI +97.42  
EL 691.37

PROPOSED PGL ALONG MEDIAN EOP

+0.34%

1.5' MIN.

EXISTING PROFILE ALONG US RTE 45 (LAGRANGE RD)

MATCH EXISTING  
EL 692.58

|        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |        |  |
|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--|
| 688.03 | 688.23 | 688.65 | 689.32 | 689.84 | 690.25 | 690.69 | 691.26 | 691.89 | 692.58 | 693.18 | 693.68 | 694.23 | 695.01 | 694.96 | 695.22 | 695.45 | 695.45 | 695.50 | 695.37 | 695.12 | 694.90 | 694.44 | 693.95 | 693.45 | 692.94 | 692.38 |  |
| 179+00 | 180+00 | 181+00 | 182+00 | 183+00 | 184+00 | 185+00 | 186+00 | 187+00 | 188+00 | 189+00 | 190+00 | 191+00 | 192+00 |        |        |        |        |        |        |        |        |        |        |        |        |        |  |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
159TH STREET AT US ROUTE 45 (LAGRANGE ROAD)  
PROFILE - LAGRANGE ROAD  
STA 179+00 TO STA 193+00  
SCALE: HOR: 1" = 50' VERT: 1" = 5' DRAWN BY: OIU  
DATE: 12-15-04 CHECKED BY: RCH

PLAN SURVEYED BY DATE  
NOTE BOOK NO. OF MAY CHECK  
ADD FILE NAME

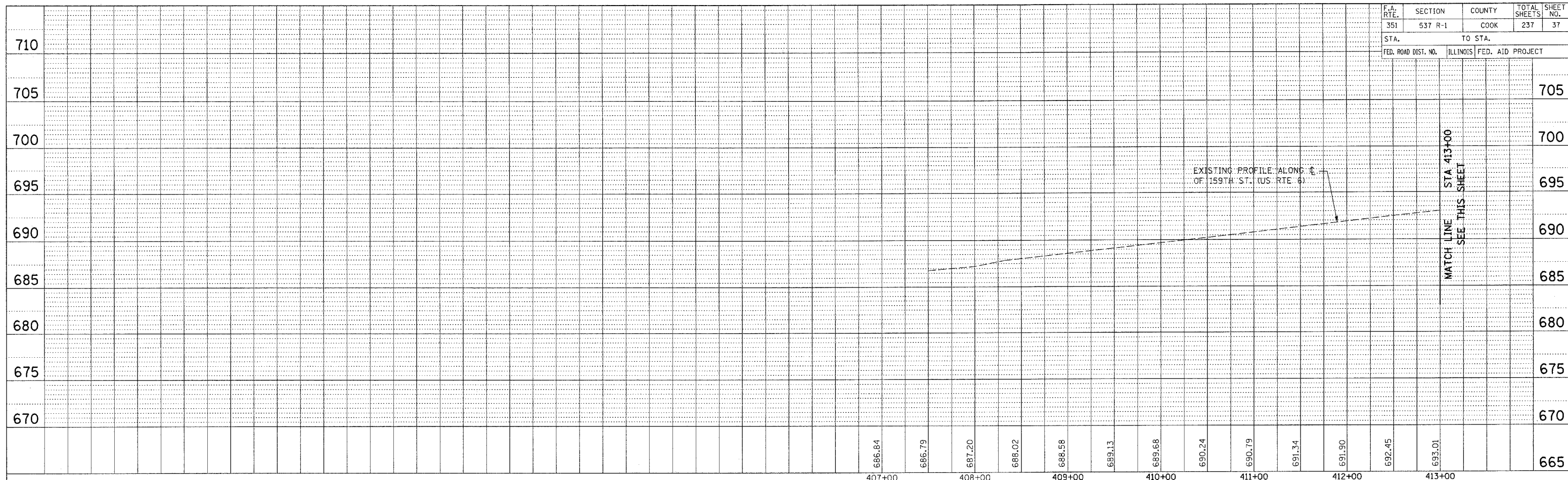
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NOTE BOOK NO. OF MAY CHECK  
ADD FILE NAME

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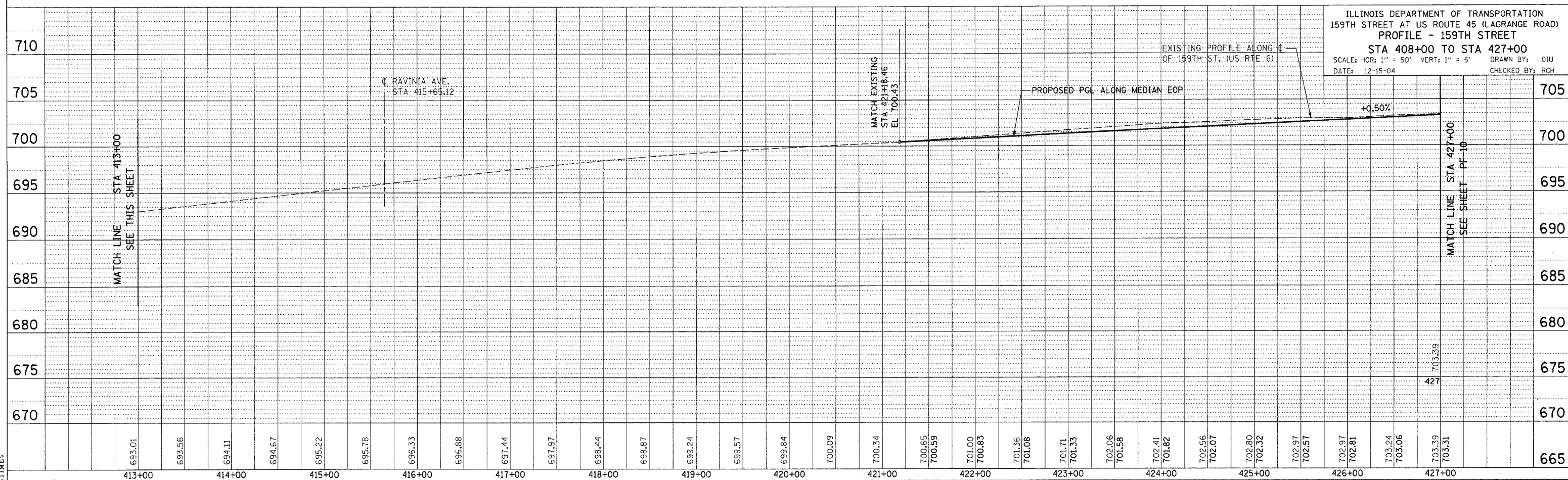
PLAN SURVEYED BY DATE  
 PLOTTED BY  
 NOTE BOOK NO. CHECKED BY  
 ALL OF WAY CHECKED BY  
 DATED FILE NAME

PROFILE SURVEYED BY DATE  
 PLOTTED BY  
 NOTE BOOK NO. CHECKED BY  
 GRAVING CHECKED BY  
 STRUCTURE INSTALLED CHECKED BY

|                     |         |          |                  |           |
|---------------------|---------|----------|------------------|-----------|
| F.A. RTE.           | SECTION | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| 351                 | 537 R-1 | COOK     | 237              | 37        |
| STA.                |         | TO STA.  |                  |           |
| FED. ROAD DIST. NO. |         | ILLINOIS | FED. AID PROJECT |           |

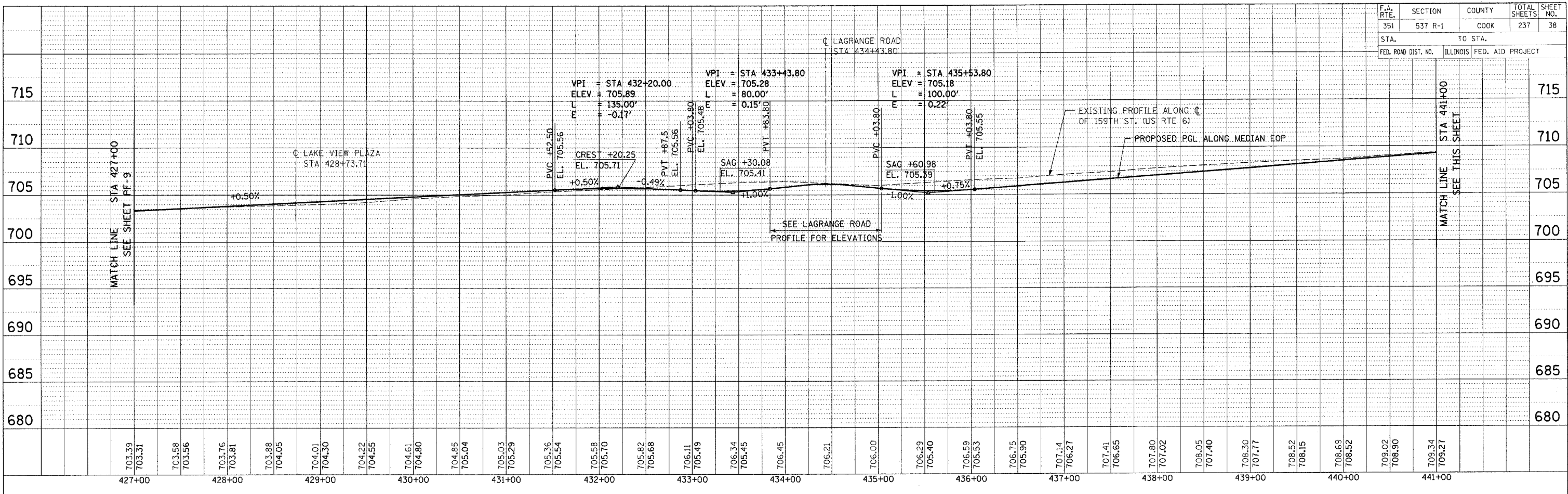


ILLINOIS DEPARTMENT OF TRANSPORTATION  
 159TH STREET AT US ROUTE 45 (LAGRANGE ROAD)  
 PROFILE - 159TH STREET  
 STA 408+00 TO STA 427+00  
 SCALE: HOR: 1" = 50' VERT: 1" = 5'  
 DATE: 12-15-04 DRAWN BY: OIU  
 CHECKED BY: RCH



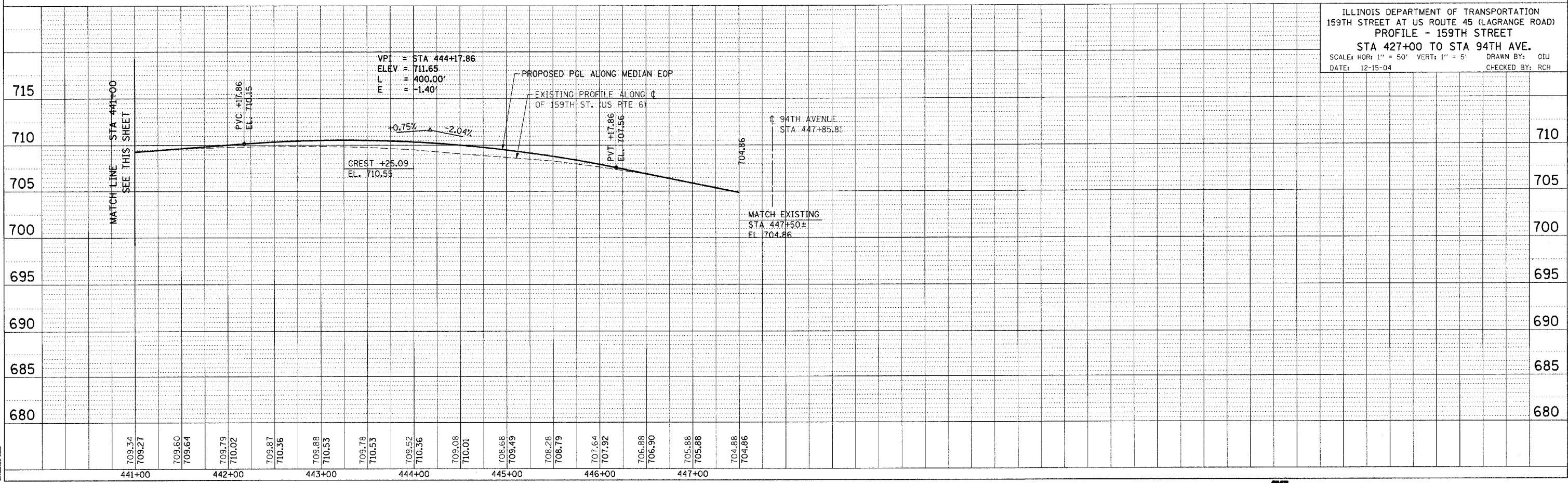
STILES  
 SDATES  
 STIMES

| F.A. RTE.           | SECTION | COUNTY         | TOTAL SHEETS     | SHEET NO. |
|---------------------|---------|----------------|------------------|-----------|
| 351                 | 537 R-1 | COOK           | 237              | 38        |
| STA. 427+00         |         | TO STA. 441+00 |                  |           |
| FED. ROAD DIST. NO. |         | ILLINOIS       | FED. AID PROJECT |           |



|        |      |
|--------|------|
| PLAN   | DATE |
| NO. 1  |      |
| NO. 2  |      |
| NO. 3  |      |
| NO. 4  |      |
| NO. 5  |      |
| NO. 6  |      |
| NO. 7  |      |
| NO. 8  |      |
| NO. 9  |      |
| NO. 10 |      |

ILLINOIS DEPARTMENT OF TRANSPORTATION  
 159TH STREET AT US ROUTE 45 (LAGRANGE ROAD)  
 PROFILE - 159TH STREET  
 STA 427+00 TO STA 94TH AVENUE.  
 SCALE: HOR: 1" = 50' VERT: 1" = 5'  
 DATE: 12-15-04  
 DRAWN BY: OIU  
 CHECKED BY: RCH

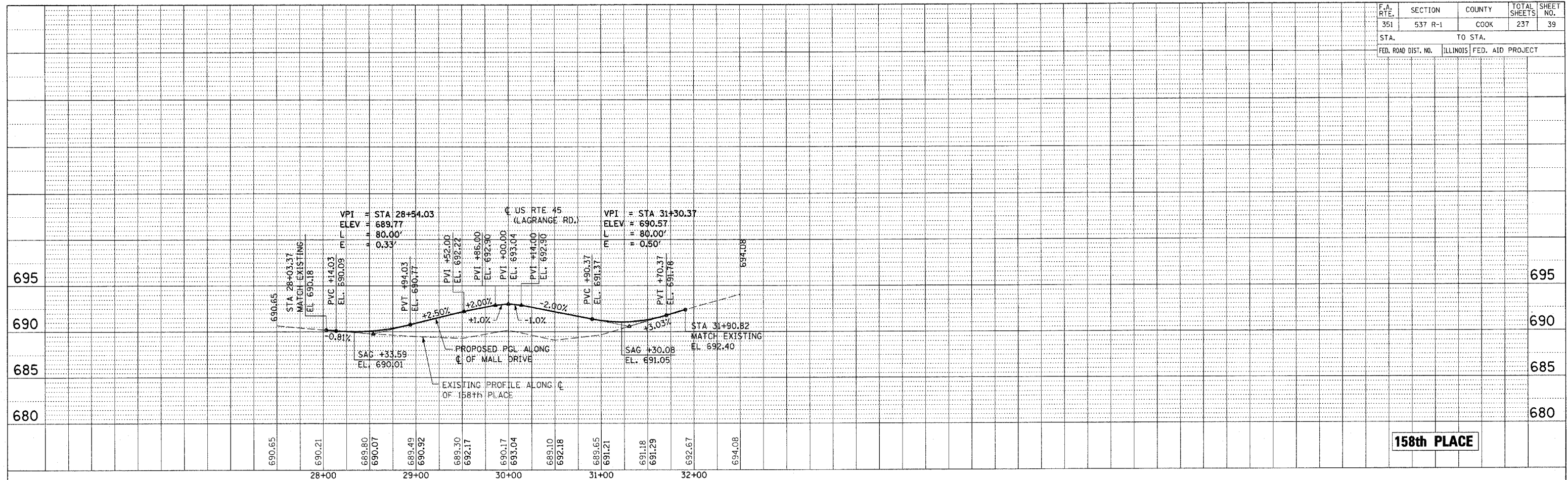


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|---------|------|
| PROFILE | DATE |
| NO. 1   |      |
| NO. 2   |      |
| NO. 3   |      |
| NO. 4   |      |
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| NO. 9   |      |
| NO. 10  |      |

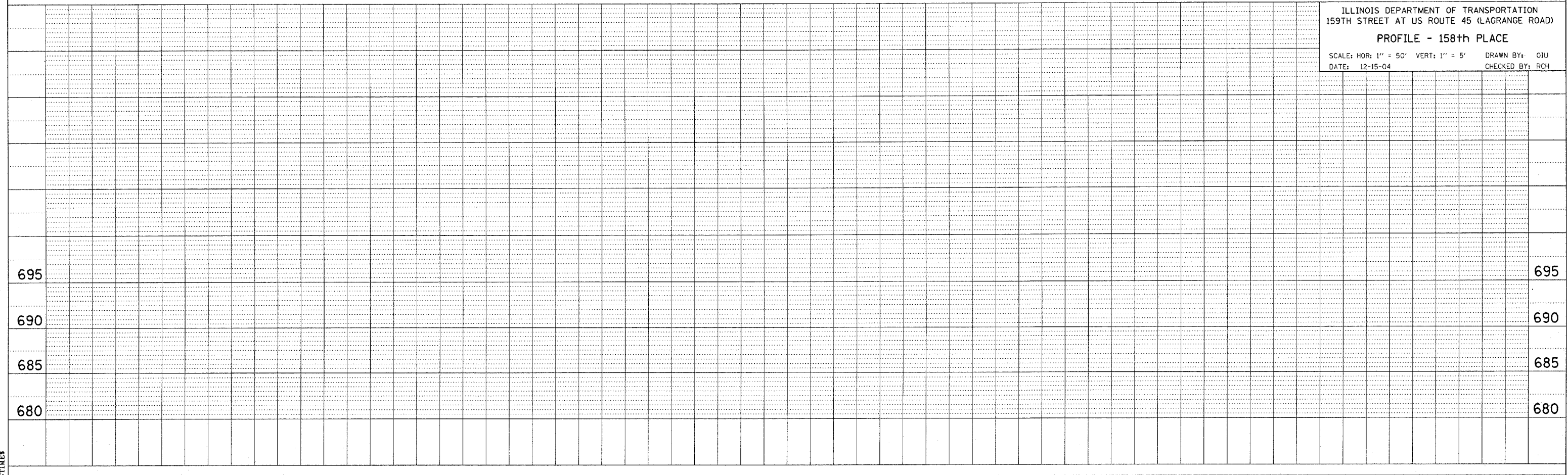


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|---------------------|---------|----------|------------------|-----------|
| F.A. RTE.           | SECTION | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| 351                 | 537 R-1 | COOK     | 237              | 39        |
| STA.                |         | TO STA.  |                  |           |
| FED. ROAD DIST. NO. |         | ILLINOIS | FED. AID PROJECT |           |

PLAN  
 REVISIONS  
 DATE  
 BY  
 CHECKED  
 ALIGNED  
 CHECKED  
 NOTE BOOK NO.  
 CAD FILE NAME



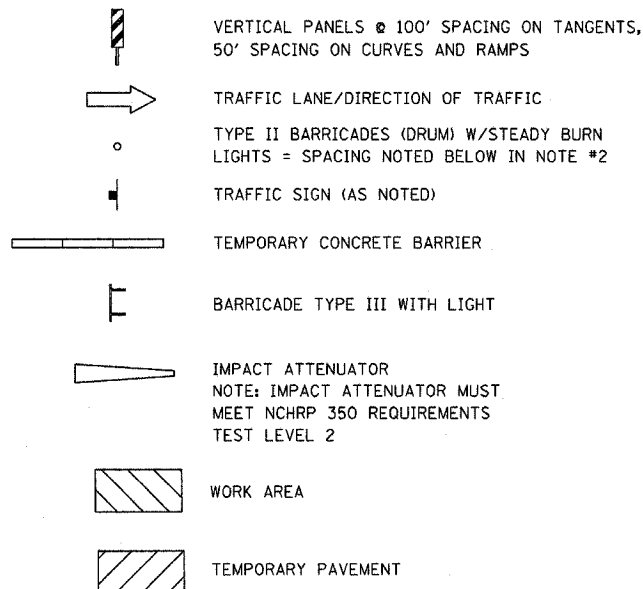
PROFILE  
 REVISIONS  
 DATE  
 BY  
 CHECKED  
 GRADES CHECKED  
 NOTE BOOK NO.  
 STRUCTURE NOTATIONS CHECKED



ILLINOIS DEPARTMENT OF TRANSPORTATION  
 159TH STREET AT US ROUTE 45 (LAGRANGE ROAD)  
**PROFILE - 158th PLACE**  
 SCALE: HOR: 1" = 50' VERT: 1" = 5'  
 DATE: 12-15-04 DRAWN BY: OIU  
 CHECKED BY: RCH

SPILLS  
 SDATES  
 STIMES

**MOT LEGEND**



**MAINTENANCE OF TRAFFIC GENERAL NOTES**

- TRAFFIC CONTROL SHALL BE PERFORMED IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION, ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES AND THE APPLICABLE HIGHWAY STANDARD OR AS HEREIN SPECIFIED.
- THE WORK ZONE WILL BE DELINEATED AT ALL TIMES THROUGHOUT CONSTRUCTION BY TYPE II BARRICADES OR DRUMS WITH MONODIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS ON TANGENTS AND 25' CENTERS ON TAPERS AND LANE SHIFTS AND 12' CENTERS ON RADII.
- OPPOSING LANES OF TRAFFIC WILL BE DELINEATED AT ALL TIMES THROUGHOUT CONSTRUCTION BY TWO 4-INCH YELLOW TEMPORARY PAVEMENT MARKING LINES AT 11-INCH CENTERS.
- THE COST OF FURNISHING, INSTALLING, MAINTAINING, RELOCATING, AND REMOVING ALL TRAFFIC CONTROL DEVICES INCLUDING BUT NOT LIMITED TO: DRUMS, BARRICADES, CONSTRUCTION SIGNS, WARNING LIGHTS, FLAGMEN, AND ALL OTHER MISCELLANEOUS DEVICES USED FOR THE PURPOSE OF RELOCATING OR DIRECTING TRAFFIC DURING CONSTRUCTION OF THIS IMPROVEMENT WILL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE FOR TRAFFIC CONTROL AND PROTECTION. TEMPORARY PAVEMENT, TEMPORARY PAVEMENT MARKING LINES, PAVEMENT MARKING REMOVAL WILL BE PAID SEPARATELY.
- WHERE PROVIDED, EXISTING TRAFFIC SIGNS SHALL BE RELOCATED FOR EACH CONSTRUCTION STAGE. THE COSTS ASSOCIATED WITH RELOCATING THE EXISTING SIGNS SHALL BE INCLUDED IN THE CONTRACT LUMP SUM PRICE OF TRAFFIC CONTROL AND PROTECTION.
- ACCESS TO DRIVEWAYS AND SIDE ROADS IS TO BE MAINTAINED DURING CONSTRUCTION. ANY DELAYS OR INCONVENIENCES CAUSED THE CONTRACTOR BY COMPLYING WITH THESE REQUIREMENTS SHALL BE CONSIDERED AS INCIDENTAL TO THE CONTRACT AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- TEMPORARY PAVEMENT MARKINGS SHALL BE WET TEMPORARY PAVEMENT MARKING TAPE, TYPE III ON EXISTING, TEMPORARY PAVEMENT OR ON NEW PAVEMENT PRIOR TO AND BEYOND THE CONSTRUCTION ZONE.
- ALL AUXILLARY LANES SHALL BE 11' WIDE UNLESS OTHERWISE NOTED.
- THE CONTRACTOR SHALL INSTALL WORK ZONE SPEED LIMIT SIGN ASSEMBLIES BEYOND EACH LEG OF THE INTERSECTION OF US 45 AND US 6 DURING ALL STAGES OF CONSTRUCTION.
- "DRIVEWAY ENTRANCE" SIGNS SHALL BE INSTALLED AS SHOWN ON THE PLANS AND PAID FOR AS "TEMPORARY INFORMATION SIGNING".
- WORK ZONE PUBLIC INFORMATION SIGNS SHALL BE PROVIDED AT LOCATIONS DIRECTED BY THE ENGINEER. THE MESSAGE AND SIZE OF THE SIGNS SHALL BE SPECIFIED BY THE DEPARTMENT. THE SIGNS SHALL BE INCLUDED FOR PAYMENT AS PART OF THE LUMP SUM COST FOR "TRAFFIC CONTROL AND PROTECTION (SPECIAL)".

**SUGGESTED SEQUENCE OF CONSTRUCTION**

**PRE STAGE:**

CONSTRUCT TEMPORARY PAVEMENT ALONG 159TH STREET AND US 45 REMOVE RAISED MEDIANS AND REPLACE WITH TEMPORARY PAVEMENT

**STAGE 1:**

SHIFT TRAFFIC TO EAST SIDE OF US 45 AND CONSTRUCT SOUTHBOUND LANES OF US 45  
SHIFT TRAFFIC TO SOUTH SIDE OF 159TH STREET AND CONSTRUCT WESTBOUND LANES OF 159TH STREET

**STAGE 2:**

SHIFT SOUTHBOUND TRAFFIC TO NEWLY CONSTRUCTED LANES AND BUILD MEDIAN PAVEMENT OF US 45  
SHIFT WESTBOUND TRAFFIC TO NEWLY CONSTRUCTED LANES AND BUILD MEDIAN PAVEMENT OF 159TH STREET

**STAGE 3:**

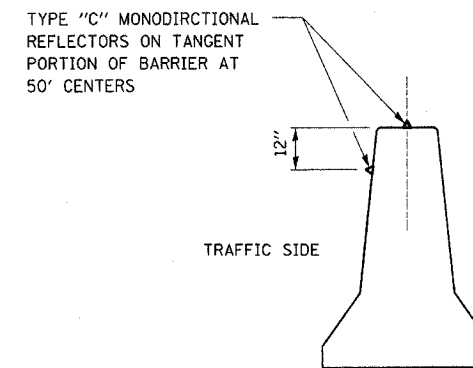
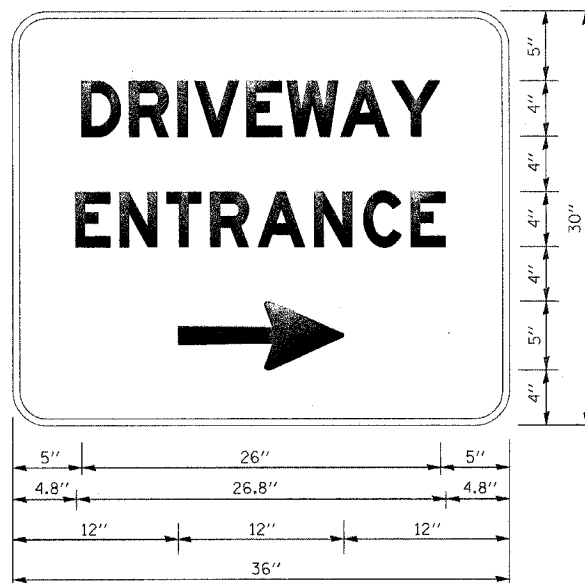
SHIFT TRAFFIC TO WEST SIDE OF US 45 AND CONSTRUCT NORTHBOUND LANES  
SHIFT TRAFFIC TO NORTH SIDE OF 159TH STREET AND CONSTRUCT EASTBOUND LANES

**STAGE 4:**

SHIFT NORTHBOUND AND SOUTHBOUND 2 LANES OF TRAFFIC TO THE EAST SIDE AND WEST SIDE OF US 45 RESPECTIVELY. CLOSE BOTH INSIDE LANES BY UTILIZING IDOT STANDARD 701601-04 FOR SINGLE LANE CLOSURE AND COMPLETE THE CONSTRUCTION OF RAISED MEDIAN.

SHIFT WESTBOUND AND EASTBOUND 2 LANES OF TRAFFIC TO THE NORTH SIDE AND SOUTH SIDE OF 159TH STREET RESPECTIVELY. CLOSE BOTH INSIDE LANES BY UTILIZING IDOT STANDARD 701601-04 FOR SINGLE LANE CLOSURE AND COMPLETE THE CONSTRUCTION OF RAISED MEDIAN.

**DRIVEWAY ENTRANCE SIGNING**

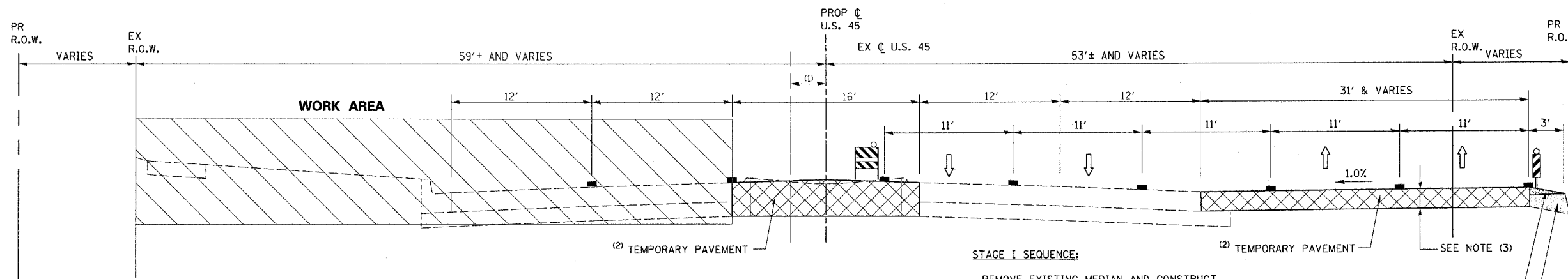


**DETAIL A**  
(BARRIER WALL REFLECTORS)

**NOTES:**

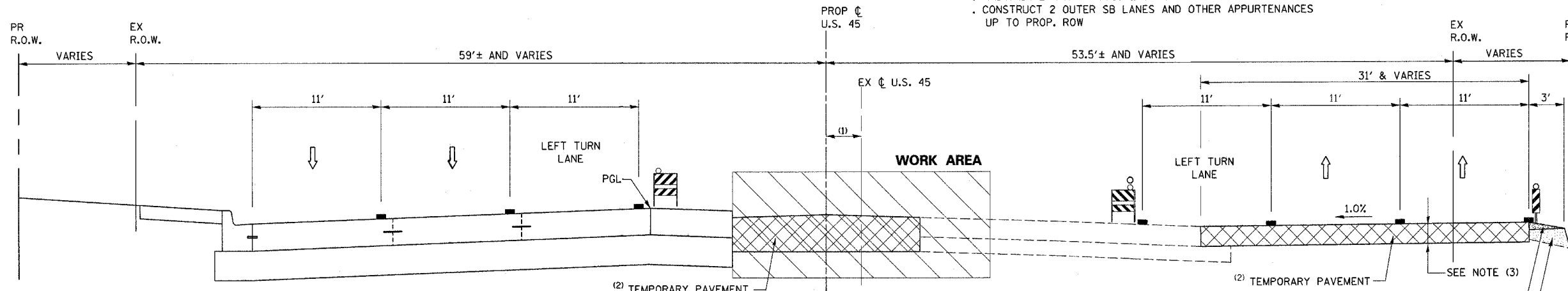
- HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
- TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE PLACED BACK-TO-BACK: ONE WITH THE RIGHT HAND ARROW (SHOWN) SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE FAR LEFT SIDE OF THE DRIVEWAY.
- SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

| REVISIONS  |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD) |
|--|------|---|
| NAME   | DATE |   |
|  |      | MAINTENANCE OF TRAFFIC<br>LEGEND AND SYMBOLS  |
|  |      |   |
|  |      |   |
|  |      |   |
|  |      |   |
|  |      |   |
| SCALE: N/A   |      | DRAWN BY: TRK   |
| DATE: 7-07-06  |      | CHECKED BY: RCH   |
| <b>McDonough Associates Inc.</b><br>Engineers / Architects |      |   |



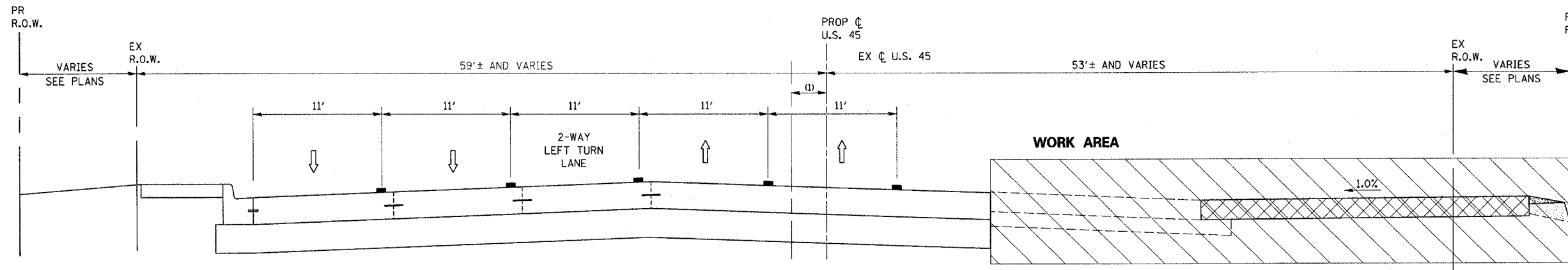
**STAGE I**  
U.S. ROUTE 45 (LAGRANGE ROAD)

- STAGE I SEQUENCE:**
- REMOVE EXISTING MEDIAN AND CONSTRUCT TEMPORARY PAVEMENT. (2)
  - SHIFT SB TRAFFIC TO EXIST. NB LANES
  - SHIFT NB LANES TO TEMPORARY PAVEMENT
  - MAINTAIN 2 WAY TRAFFIC EACH DIRECTION AS SHOWN
  - CONSTRUCT 2 OUTER SB LANES AND OTHER APPURTENANCES UP TO PROP. ROW



**STAGE II**  
U.S. ROUTE 45 (LAGRANGE ROAD)

- STAGE II SEQUENCE:**
- SHIFT SB TRAFFIC TO 2 OUTER LANES SB
  - MAINTAIN 2 WAY TRAFFIC EACH DIRECTION AS SHOWN
  - CONSTRUCT INSIDE LANES, MEDIAN AND OTHER APPURTENANCES



**STAGE III**  
U.S. ROUTE 45 (LAGRANGE ROAD)

- STAGE III SEQUENCE:**
- SHIFT TRAFFIC TO NEWLY CONSTRUCTED PAVEMENT AS SHOWN
  - MAINTAIN 2 WAY TRAFFIC EACH DIRECTION AS SHOWN
  - CONSTRUCT NB LANES AND OTHER APPURTENANCES UP TO PROP. ROW

- NOTES:**
- 3'± SOUTH OF 159TH ST.  
6'-8'± NORTH OF 159TH ST.
  - CONSTRUCT TEMPORARY PAVEMENT DURING PRE-STAGE (SEE MT-4 - MT-7)
  - BITUMINOUS BASE COURSE, SUPER PAVE 8" BITUMINOUS CONCRETE SURFACE COURSE, SUPER PAVE, N50, MIX "D", 2" (SEE CHART)

**SUPERPAVE MIX DESIGN**

| TEMPORARY PAVEMENT   |           |              |          |
|--|-----------|--------------|----------|
| MIX TYPE   | MAX RAP % | VOIDS        | AC TYPE  |
| BITUMINOUS BASE COURSE, SUPER PAVE, 8"                         | 50        | 2% @ 50 Gyr. | PG 58-22 |
| BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50 2" | 15        | 4% @ 50 Gyr. | PG 64-22 |

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
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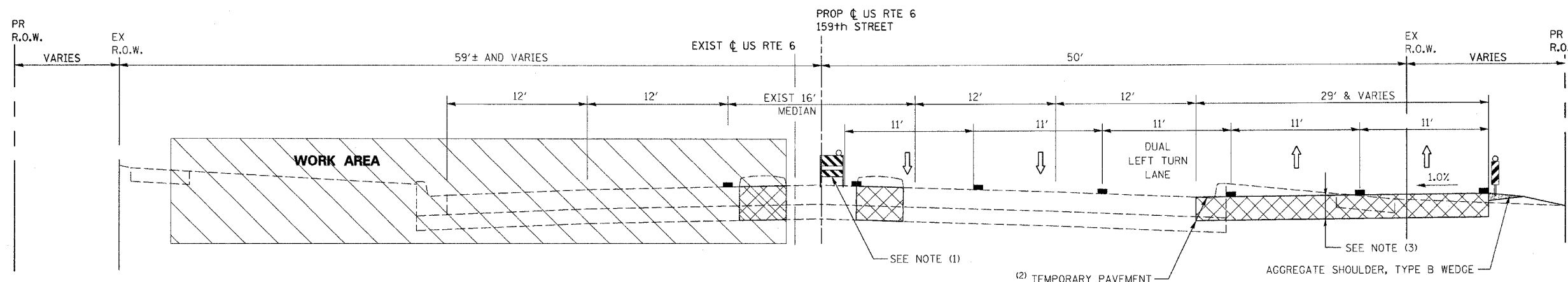
ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**MAINTENANCE OF TRAFFIC**  
TYPICAL SECTION  
U.S. 45 (LAGRANGE ROAD)

SCALE: N/A  
DATE: 7-07-06

DRAWN BY: TRK  
CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

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7/7/2006 12:08:58 PM

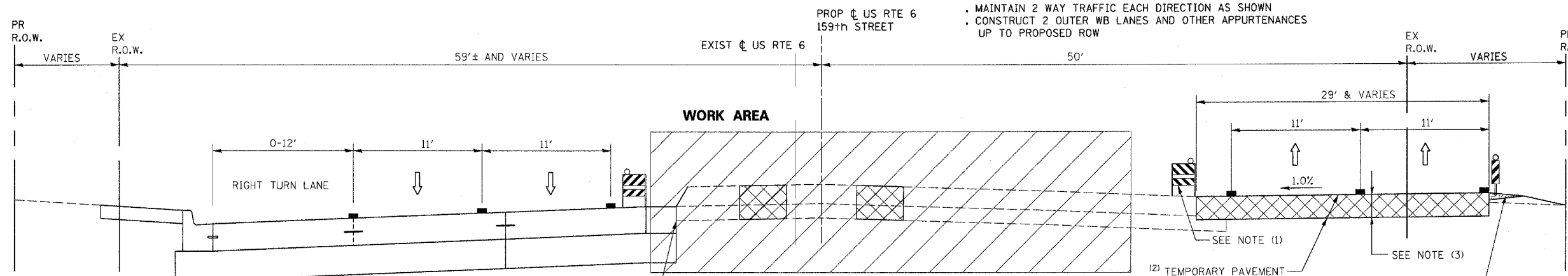


**STAGE I**

U.S. ROUTE 6 (159TH STREET)

**STAGE I SEQUENCE:**

- REMOVE EXISTING MEDIAN AND CONSTRUCT TEMPORARY PAVEMENT (2)
- SHIFT WB TRAFFIC TO EXIST. EB LANE
- SHIFT EB TRAFFIC TO TEMPORARY PAVEMENT
- MAINTAIN 2 WAY TRAFFIC EACH DIRECTION AS SHOWN
- CONSTRUCT 2 OUTER WB LANES AND OTHER APPURTENANCES UP TO PROPOSED ROW

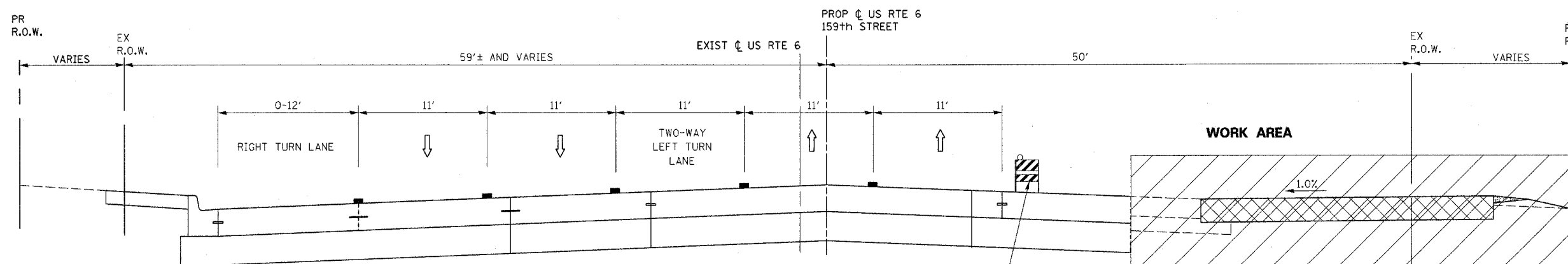


**STAGE II**

U.S. ROUTE 6 (159TH STREET)

**STAGE II SEQUENCE:**

- SHIFT WB TRAFFIC TO 2 OUTER LANES WB
- MAINTAIN 2 WAY TRAFFIC EACH DIRECTION AS SHOWN
- CONSTRUCT INSIDE LANES, MEDIAN AND OTHER APPURTENANCES



**STAGE III**

U.S. ROUTE 6 (159TH STREET)

**STAGE III SEQUENCE:**

- SHIFT TRAFFIC TO NEWLY CONSTRUCTED PAVEMENT AS SHOWN
- MAINTAIN 2 WAY TRAFFIC EACH DIRECTION AS SHOWN
- CONSTRUCT EB LANES AND OTHER APPURTENANCES UP TO PROP. ROW

**NOTES:**

- TEMPORARY CONCRETE BARRIER WALL WHERE REQUIRED. SEE PLANS FOR LOCATIONS.
- CONSTRUCT TEMPORARY PAVEMENT DURING PRE-STAGE (SEE MT-4 - MT-7)
- BITUMINOUS BASE COURSE, SUPER PAVE 8" BITUMINOUS CONCRETE SURFACE COURSE, SUPER PAVE, N50, MIX "D", 2" (SEE CHART)

**SUPERPAVE MIX DESIGN**

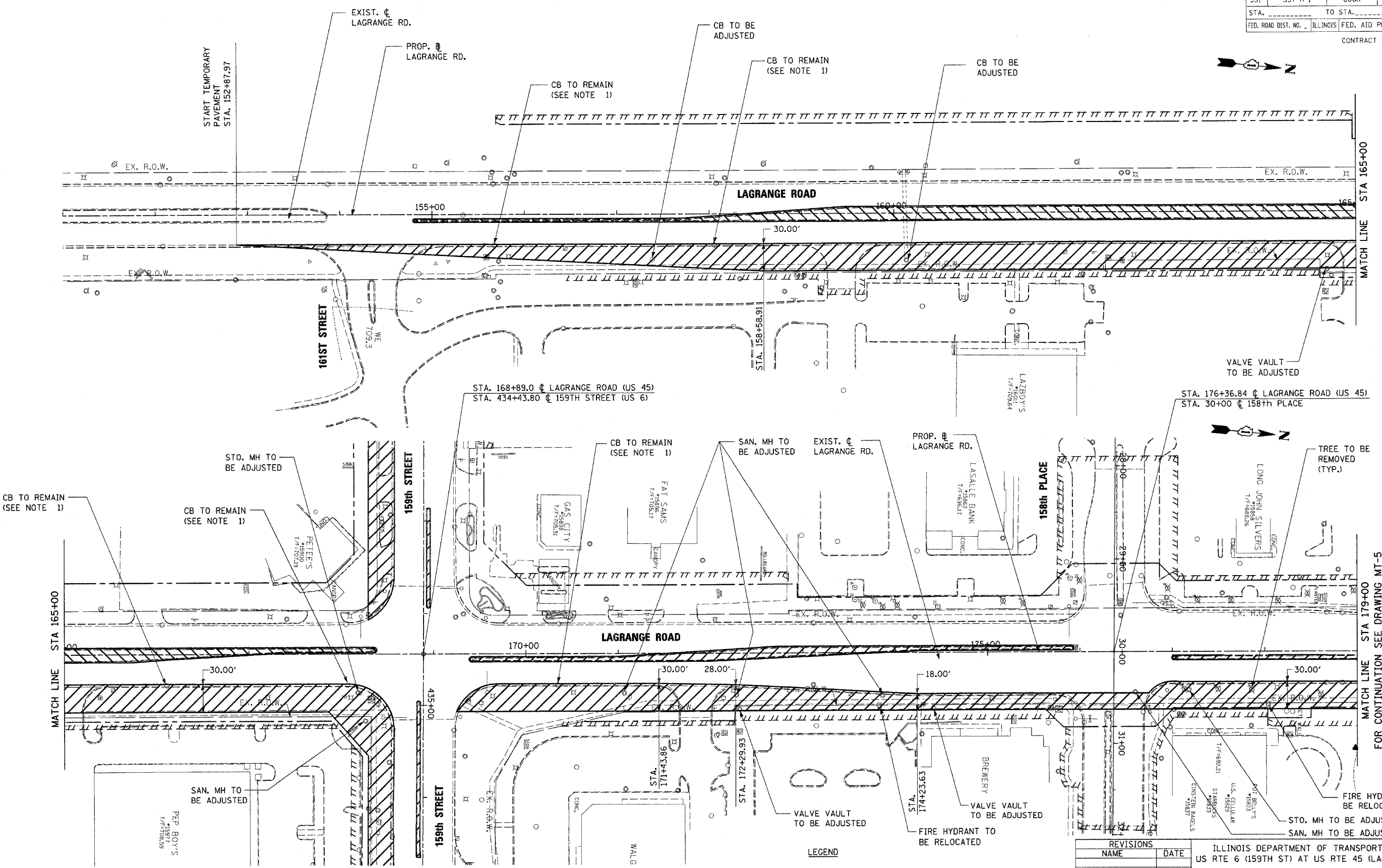
| TEMPORARY PAVEMENT   |           |              |          |
|--|-----------|--------------|----------|
| MIX TYPE   | MAX RAP % | VOIDS        | AC TYPE  |
| BITUMINOUS BASE COURSE, SUPER PAVE, 8"                         | 50        | 2% @ 50 Gyr. | PG 58-22 |
| BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX "D", N50 2" | 15        | 4% @ 50 Gyr. | PG 64-22 |

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**MAINTENANCE OF TRAFFIC  
 TYPICAL SECTION  
 U.S. ROUTE 6 (159TH ST.)**  
 SCALE: N/A DRAWN BY: TRK  
 DATE: 7-07-06 CHECKED BY: RCH  
**McDonough Associates Inc.**  
 Engineers / Architects




|                           |         |                           |              |           |
|---------------------------|---------|---------------------------|--------------|-----------|
| F.A.P. RTE.:              | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                      | 245          | 43        |
| STA. _____ TO STA. _____  |         | ILLINOIS FED. AID PROJECT |              |           |
| FED. ROAD DIST. NO. _____ |         | CONTRACT # 62880          |              |           |



NOTE 1:  
 THE CONTRACTOR SHALL UTILIZE ALL THE EXISTING CATCH BASINS LOCATED ON THE EAST EDGE OF LAGRANGE ROAD TO DRAIN THE TEMPORARY PAVEMENT. THE TEMPORARY PAVEMENT SHALL BE CONSTRUCTED WITH A MIN. OF 1% SLOPE TOWARDS THESE CATCH BASINS. SEE SHEET MT-2 FOR TYPICAL SECTIONS.

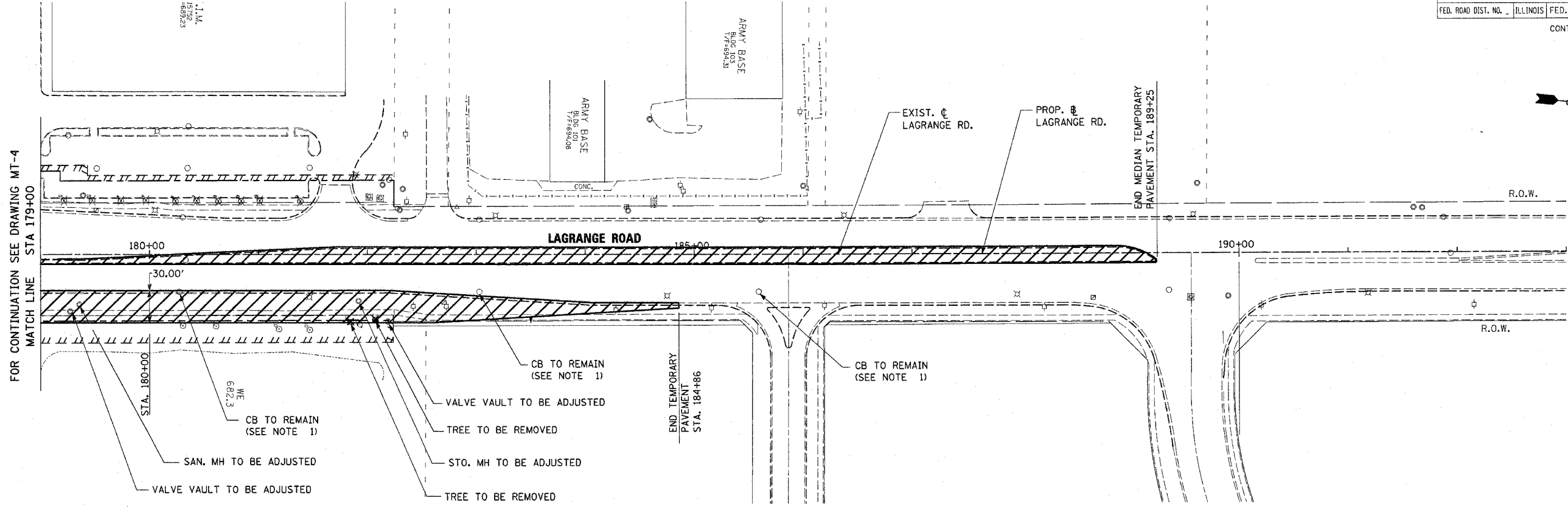
**LEGEND**  
 TEMPORARY PAVEMENT AND AGGREGATE SHOULDER  
 SEE MT-1 FOR MOT SYMBOLS LEGEND

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**MAINTENANCE OF TRAFFIC - PRE-STAGE**  
 U.S. 45 (LAGRANGE ROAD)  
 STA 151+00 TO STA 179+00  
 SCALE: 1"=50'  
 DATE: 7-07-06  
 DRAWN BY: TRK  
 CHECKED BY: RCH  
  
 McDonough Associates Inc.  
 Engineers / Architects

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| STATE                    | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 351                      | 537 R-1 | COOK  | 245          | 44        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT |              |           |
| CONTRACT # 62880         |         |   |              |           |



FOR CONTINUATION SEE DRAWING MT-4  
MATCH LINE STA 179+00

**NOTE 1:**

THE CONTRACTOR SHALL UTILIZE ALL THE EXISTING CATCH BASINS LOCATED ON THE EAST EDGE OF LAGRANGE ROAD TO DRAIN THE TEMPORARY PAVEMENT. THE TEMPORARY PAVEMENT SHALL BE CONSTRUCTED WITH A MIN. OF 1% SLOPE TOWARDS THESE CATCH BASINS. SEE SHEET MT-2 FOR TYPICAL SECTIONS.

**LEGEND**

TEMPORARY PAVEMENT AND AGGREGATE SHOULDER

SEE MT-1 FOR MOT SYMBOLS LEGEND

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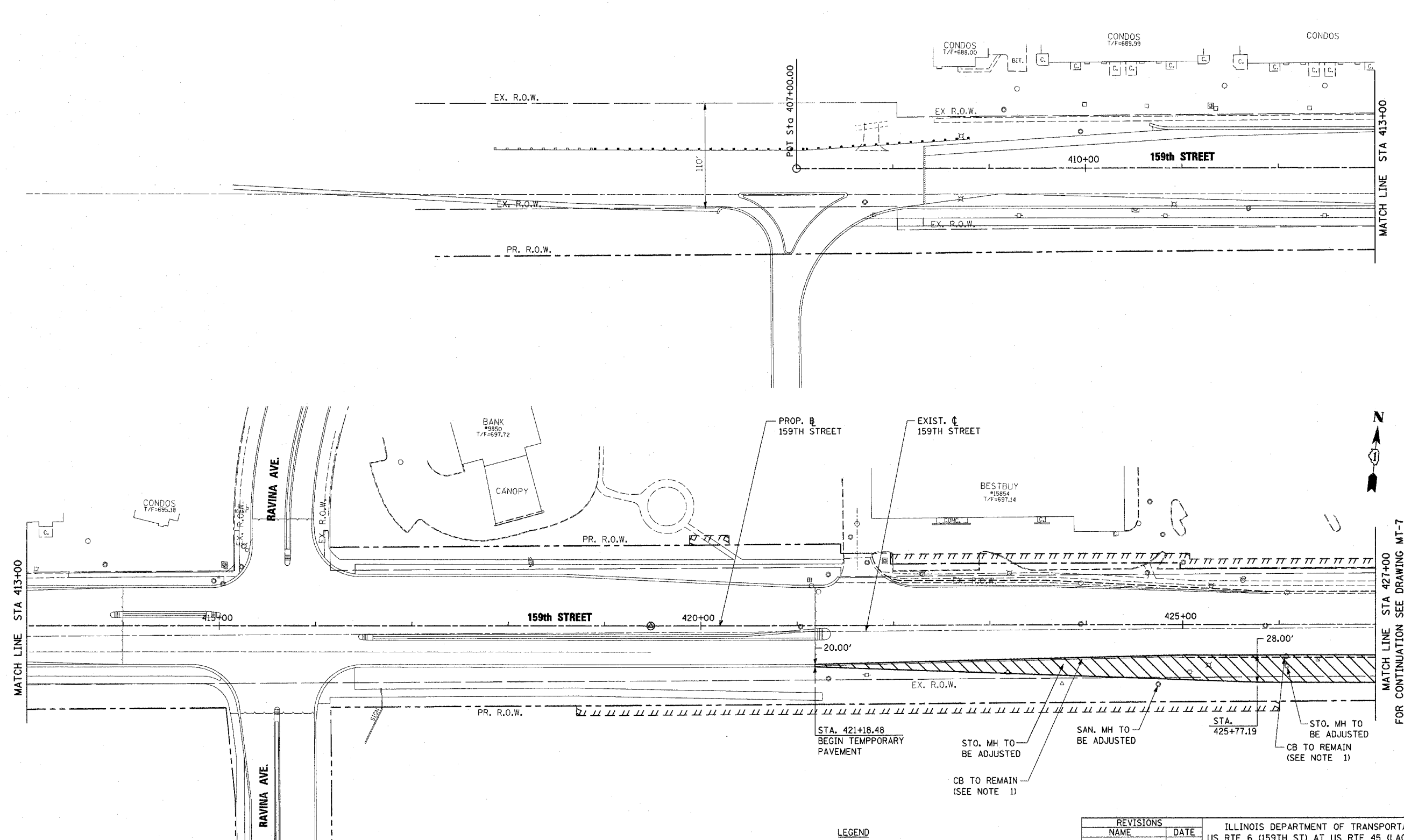
ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**MAINTENANCE OF TRAFFIC - PRE-STAGE**  
U.S. 45 (LAGRANGE ROAD)  
STA 179+00 TO STA 183+50  
SCALE: 1"=50'  
DATE: 7-07-06  
DRAWN BY: TRK  
CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

FILES  
DATES  
TIMES


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| EXIST. RTE.         | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                 | 537 R-1 | COOK                      | 245          | 45        |
| STA.                |         | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |         | ILLINOIS FED. AID PROJECT |              |           |

CONTRACT • 62880



NOTE 1:  
 THE CONTRACTOR SHALL UTILIZE ALL THE EXISTING CATCH BASINS LOCATED ON THE EAST EDGE OF LAGRANGE ROAD TO DRAIN THE TEMPORARY PAVEMENT. THE TEMPORARY PAVEMENT SHALL BE CONSTRUCTED WITH A MIN. OF 1% SLOPE TOWARDS THESE CATCH BASINS. SEE SHEET MT-2 FOR TYPICAL SECTIONS.


LEGEND

 TEMPORARY PAVEMENT AND AGGREGATE SHOULDER

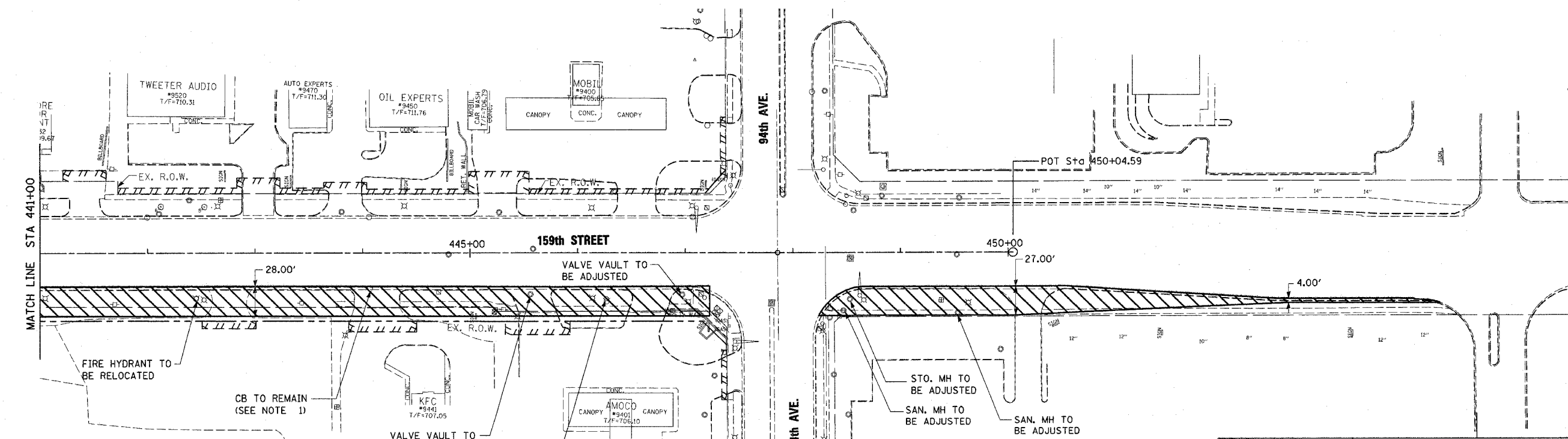
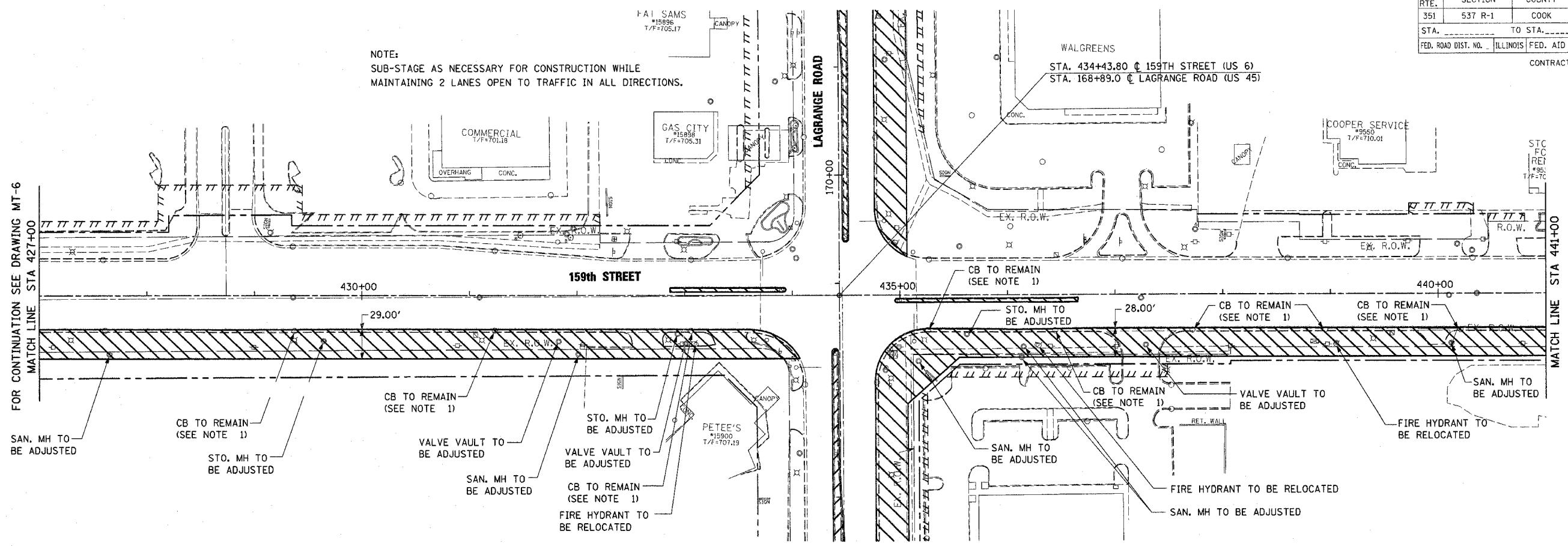
SEE MT-1 FOR MOT SYMBOLS LEGEND

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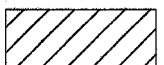
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 MAINTENANCE OF TRAFFIC - PRE-STAGE  
 U.S. ROUTE 6 (159TH ST.)  
 STA 408+00 TO STA 427+00  
 SCALE: 1"=50'  
 DATE: 7-07-06  
 DRAWN BY: RCH  
 CHECKED BY: RCH

 McDonough Associates Inc.  
 Engineers / Architects


|                           |         |                           |              |           |
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| F.A.P. RITE.              | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                      | 245          | 46        |
| STA. _____ TO STA. _____  |         | ILLINOIS FED. AID PROJECT |              |           |
| FED. ROAD DIST. NO. _____ |         | CONTRACT # 62880          |              |           |



NOTE 1:  
 THE CONTRACTOR SHALL UTILIZE ALL THE EXISTING CATCH BASINS LOCATED ON THE EAST EDGE OF LAGRANGE ROAD TO DRAIN THE TEMPORARY PAVEMENT. THE TEMPORARY PAVEMENT SHALL BE CONSTRUCTED WITH A MIN. OF 1% SLOPE TOWARDS THESE CATCH BASINS. SEE SHEET MT-2 FOR TYPICAL SECTIONS.

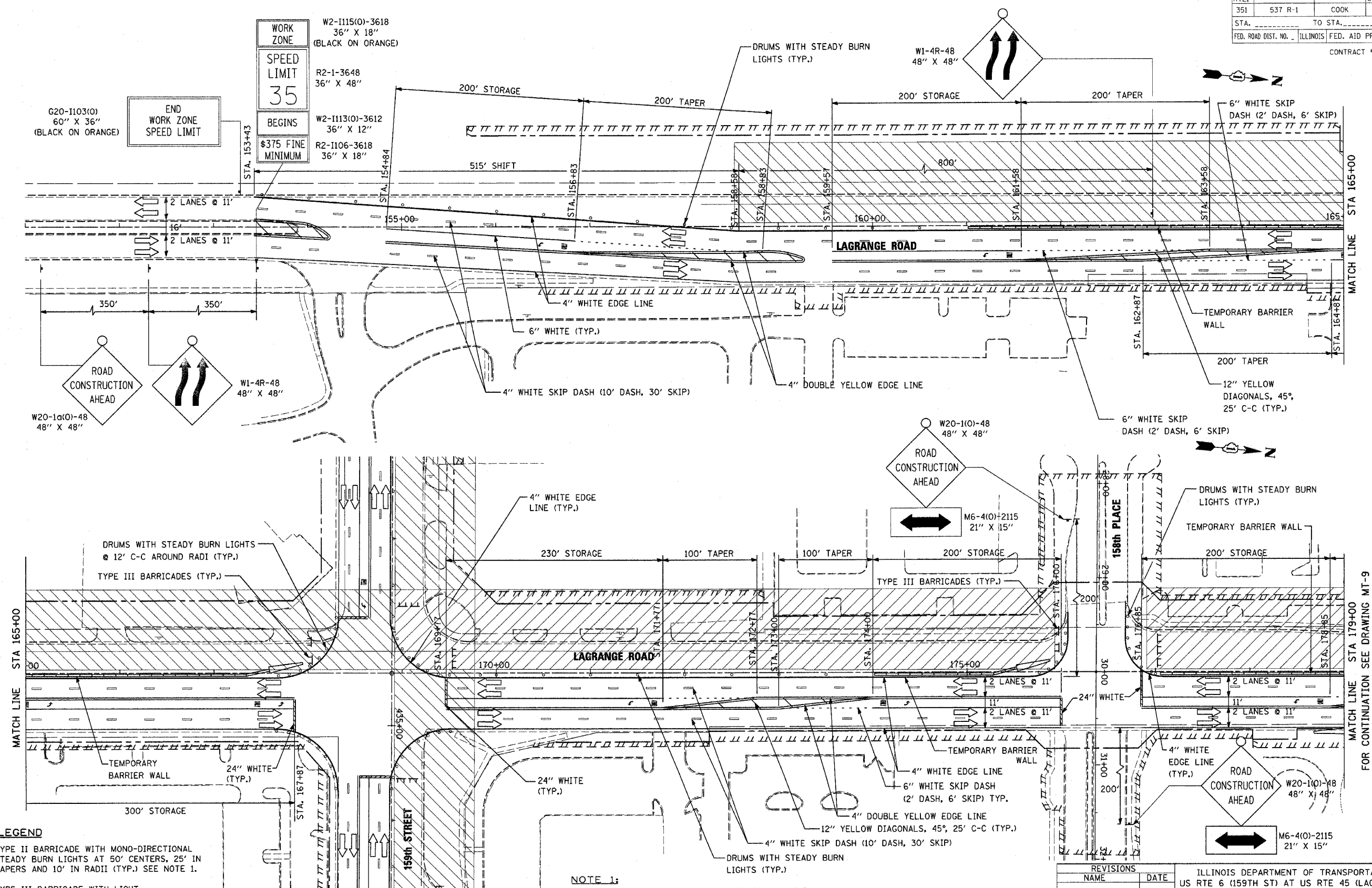
LEGEND  
 TEMPORARY PAVEMENT AND AGGREGATE SHOULDER  
 SEE MT-1 FOR MOT SYMBOLS LEGEND

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 MAINTENANCE OF TRAFFIC - PRE-STAGE  
 U.S. ROUTE 6 (159TH ST.)  
 STA 427+00 TO 94TH AVE.  
 SCALE: 1"=50'  
 DATE: 7-07-06  
 DRAWN BY: TRK  
 CHECKED BY: RCH  
 McDonough Associates Inc.  
 Engineers / Architects

FILES  
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| F.A.P. RTE.              | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 351                      | 537 R-1 | COOK  | 245          | 47        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT |              |           |
| CONTRACT # 62880         |         |   |              |           |



**LEGEND**

- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
- ⊥ TYPE III BARRICADE WITH LIGHT
- TRAFFIC LANE
- ⊥ TEMPORARY TRAFFIC ADVISORY SIGN
- ▨ WORK AREA

**LEGEND**

- ▬ TEMPORARY CONCRETE BARRIER
- ▬ IMPACT ATTENUATOR, TEMPORARY, FULLY REDIRECTIVE, NARROW, NCHRP 350, TEST LEVEL 2

**NOTE 1:**  
SUB-STAGE AS NECESSARY FOR CONSTRUCTION WHILE MAINTAINING 2 LANES OPEN TO TRAFFIC IN ALL DIRECTIONS.

**NOTE 2:**  
TEMPORARY CONCRETE BARRIER WALL SHALL BE PROVIDED WHEREVER THE VERTICAL DROP-OFF BETWEEN DRIVING LANES AND THE ADJACENT GROUND EXCEEDS 18 INCHES.

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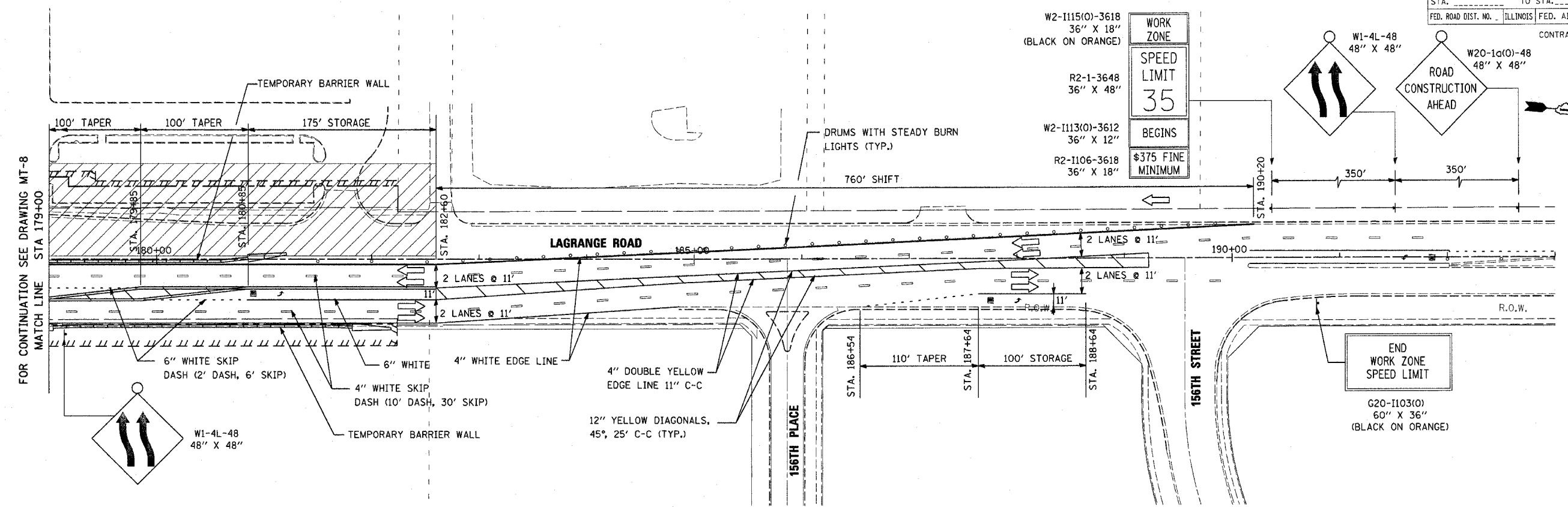
ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**MAINTENANCE OF TRAFFIC - STAGE 1**  
U.S. 45 (LAGRANGE ROAD)  
STA 151+00 TO STA 179+00

SCALE: 1"=50'  
DATE: 7-07-06

DRAWN BY: TRK  
CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

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| E.A.P. RTE.              | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 351                      | 537 R-1 | COOK  | 245          | 48        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT |              |           |
|                          |         | CONTRACT # 62880                                    |              |           |



FOR CONTINUATION SEE DRAWING MT-8  
MATCH LINE STA 179+00

**LEGEND**

- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
- ⊥ TYPE III BARRICADE WITH LIGHT
- TRAFFIC LANE
- ⊥ TEMPORARY TRAFFIC ADVISORY SIGN
- ▨ WORK AREA
- ▬ TEMPORARY CONCRETE BARRIER
- ▴ IMPACT ATTENUATOR, TEMPORARY, FULLY REDIRECTIVE, NARROW, NCHRP 350, TEST LEVEL 2

**NOTE 1:**  
TEMPORARY CONCRETE BARRIER WALL SHALL BE PROVIDED WHEREVER THE VERTICAL DROP-OFF BETWEEN DRIVING LANES AND THE ADJACENT GROUND EXCEEDS 18 INCHES.







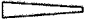
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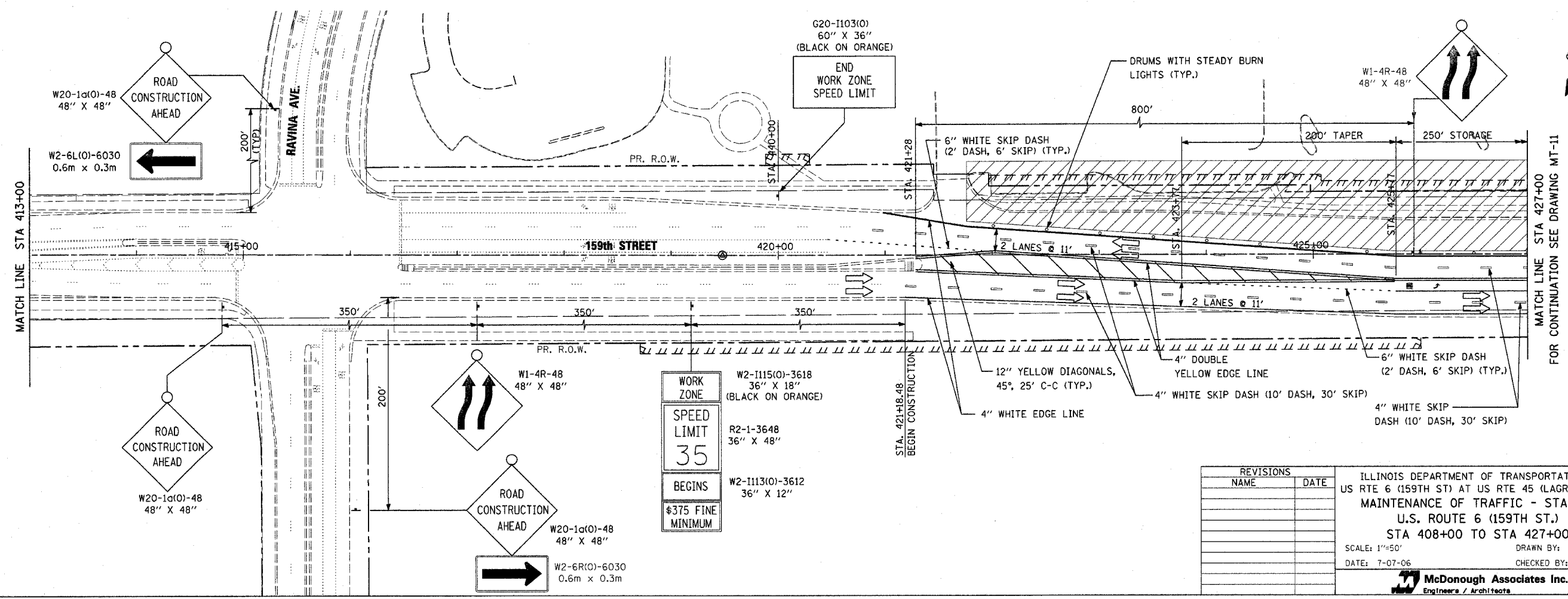
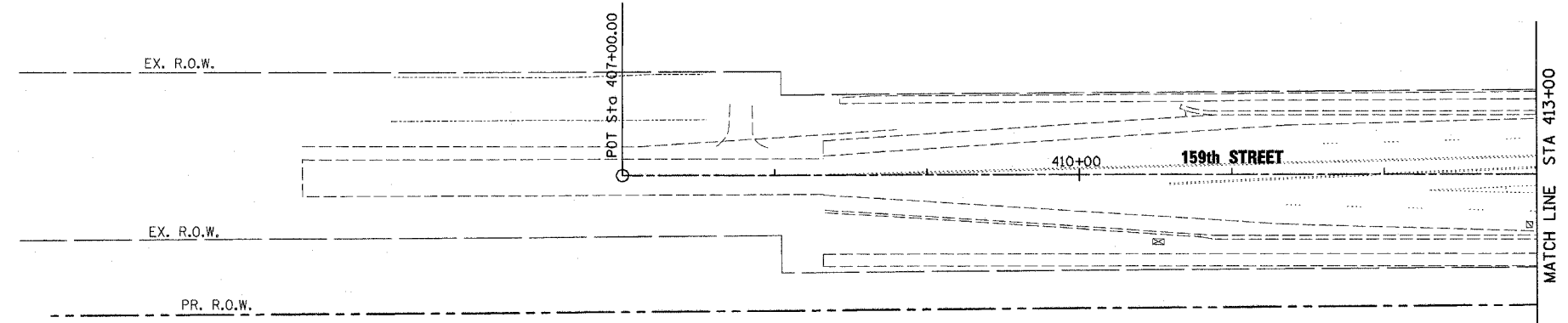
ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**MAINTENANCE OF TRAFFIC - STAGE 1**  
U.S. 45 (LAGRANGE ROAD)  
STA 179+00 TO STA 183+50  
SCALE: 1"=50' DRAWN BY: TRK  
DATE: 7-07-06 CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

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| STATE                    | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 351                      | 537 R-1 | COOK  | 245          | 49        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT |              |           |
| CONTRACT # 62880         |         |   |              |           |

**LEGEND**

-  TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
-  TYPE III BARRICADE WITH LIGHT
-  TRAFFIC LANE
-  TEMPORARY TRAFFIC ADVISORY SIGN
-  WORK AREA
-  TEMPORARY CONCRETE BARRIER
-  IMPACT ATTENUATOR, TEMPORARY, FULLY REDIRECTIVE, NARROW, NCHRP 350, TEST LEVEL 2



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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 MAINTENANCE OF TRAFFIC - STAGE 1  
 U.S. ROUTE 6 (159TH ST.)  
 STA 408+00 TO STA 427+00  
 SCALE: 1"=50' DRAWN BY: TRK  
 DATE: 7-07-06 CHECKED BY: RCH

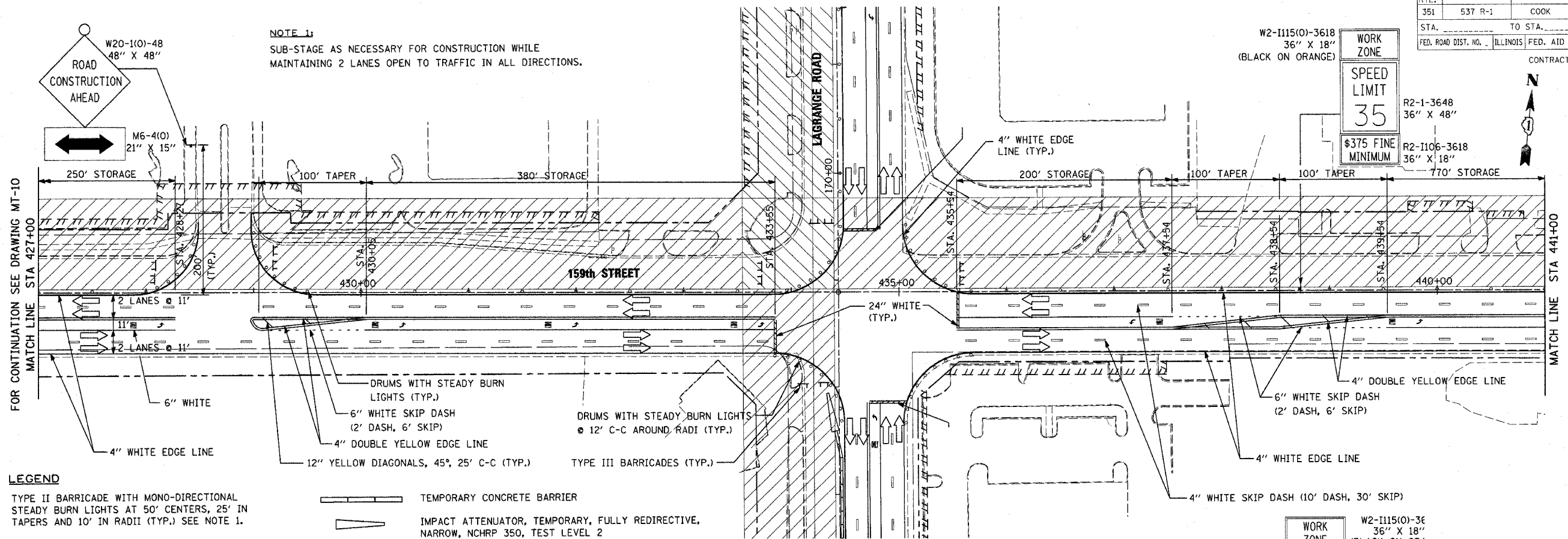
**McDonough Associates Inc.**  
 Engineers / Architects

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| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |                         |
| CONTRACT # 62880                              |                         |

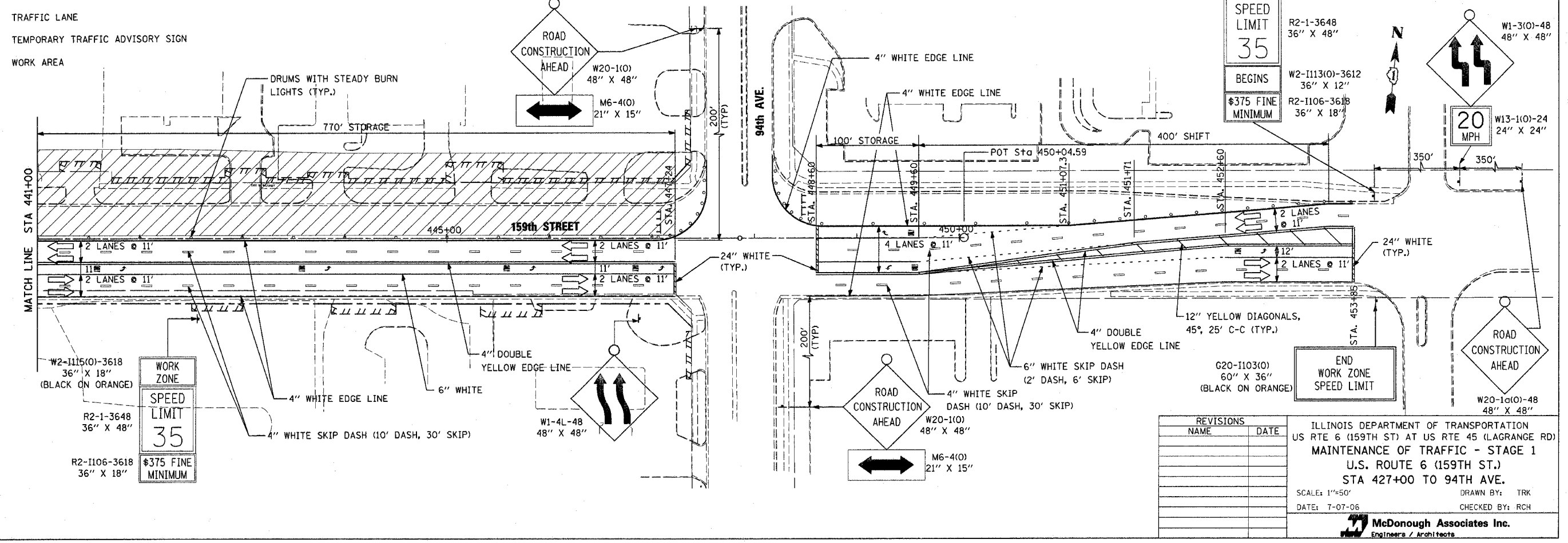
**NOTE 1:**  
SUB-STAGE AS NECESSARY FOR CONSTRUCTION WHILE MAINTAINING 2 LANES OPEN TO TRAFFIC IN ALL DIRECTIONS.



**LEGEND**

- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
- ⊥ TYPE III BARRICADE WITH LIGHT
- TRAFFIC LANE
- ⊥ TEMPORARY TRAFFIC ADVISORY SIGN
- ▨ WORK AREA

- ▬ TEMPORARY CONCRETE BARRIER
- ▬ IMPACT ATTENUATOR, TEMPORARY, FULLY REDIRECTIVE, NARROW, NCHRP 350, TEST LEVEL 2



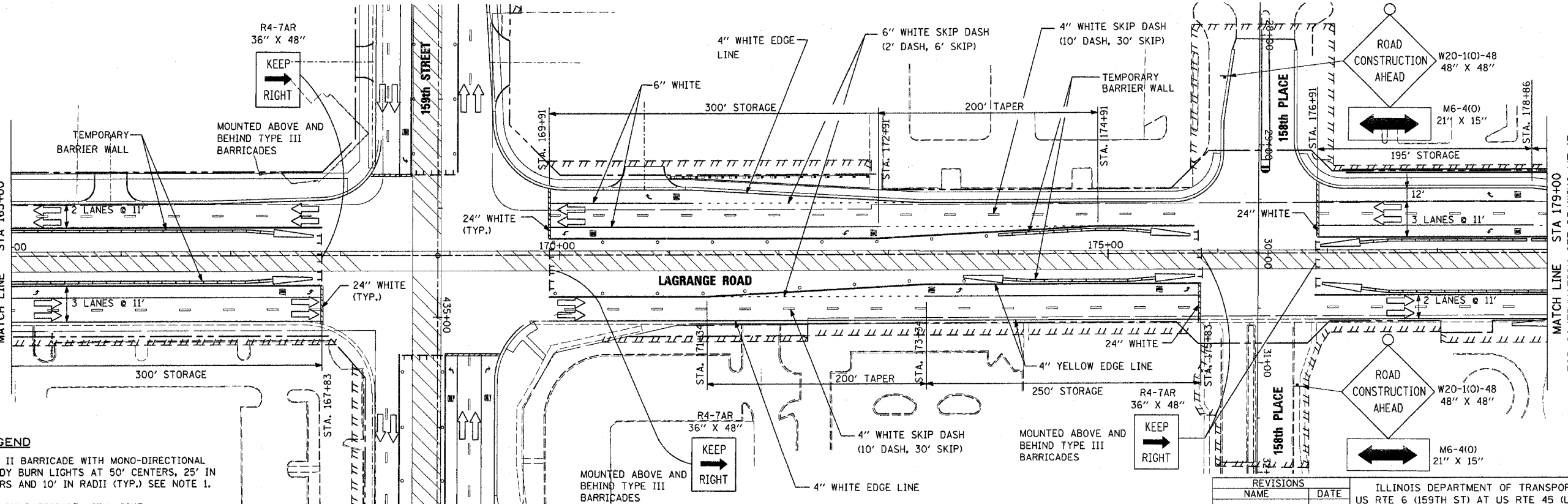
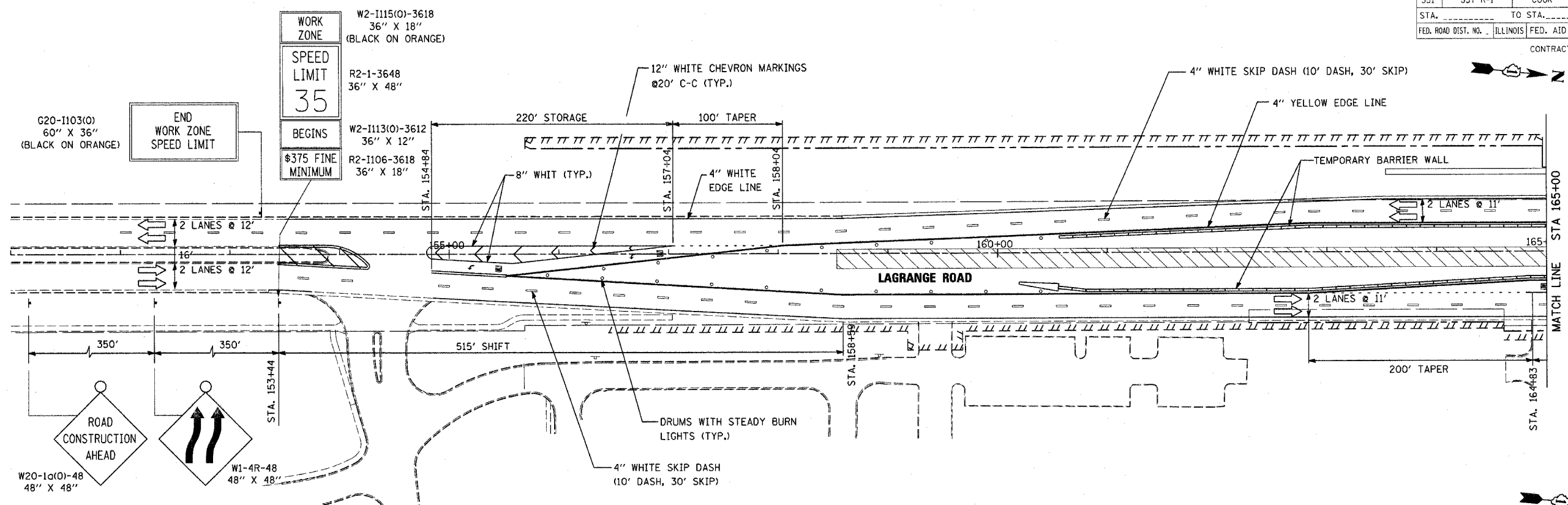
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**MAINTENANCE OF TRAFFIC - STAGE 1**  
U.S. ROUTE 6 (159TH ST.)  
STA 427+00 TO 94TH AVE.  
SCALE: 1"=50' DRAWN BY: TRK  
DATE: 7-07-06 CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

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| F.A.P. R.T.E.            | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 351                      | 537 R-1 | COOK  | 245          | 51        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |           |
| CONTRACT # 62880         |         |   |              |           |



- LEGEND**
- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
  - ⊥ TYPE III BARRICADE WITH LIGHT
  - TRAFFIC LANE
  - ⊥ TEMPORARY TRAFFIC ADVISORY SIGN
  - ▨ WORK AREA

- LEGEND**
- ▬ TEMPORARY CONCRETE BARRIER
  - ▬ IMPACT ATTENUATOR, TEMPORARY, FULLY REDIRECTIVE, NARROW, NCHRP 350, TEST LEVEL 2

**NOTE 1:**  
SUB-STAGE AS NECESSARY FOR CONSTRUCTION WHILE MAINTAINING 2 LANES OPEN TO TRAFFIC IN ALL DIRECTIONS.

**NOTE 2:**  
TEMPORARY CONCRETE BARRIER WALL SHALL BE PROVIDED WHEREVER THE VERTICAL DROP-OFF BETWEEN DRIVING LANES AND THE ADJACENT GROUND EXCEEDS 18 INCHES.

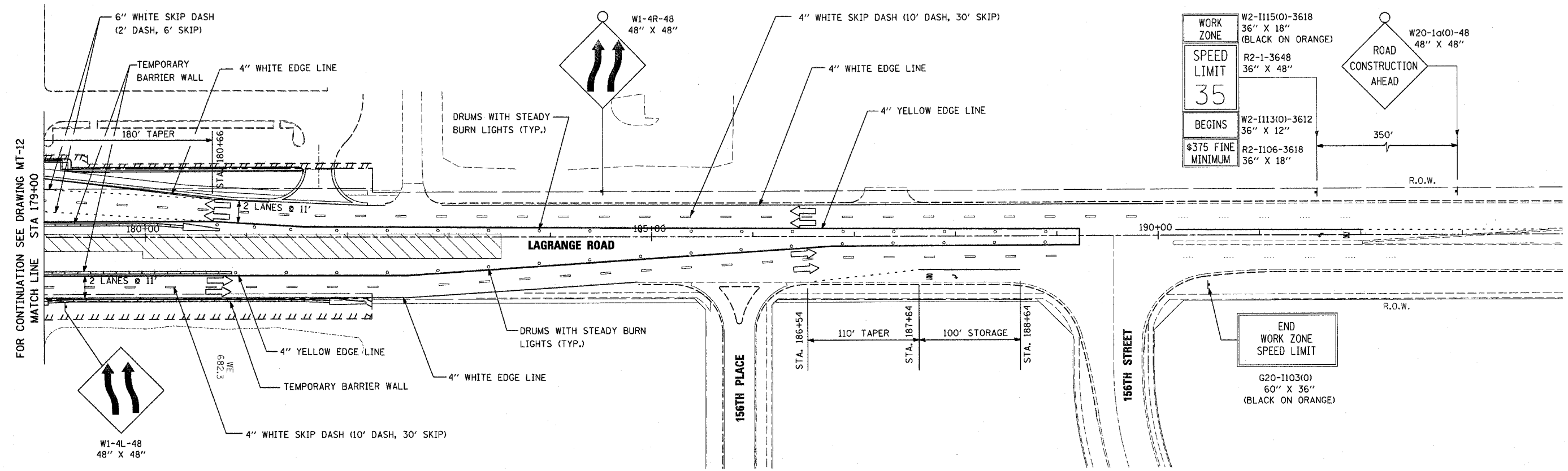
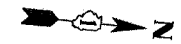
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**MAINTENANCE OF TRAFFIC - STAGE 2**  
U.S. 45 (LAGRANGE ROAD)  
STA 151+00 TO STA 179+00  
SCALE: 1"=50'  
DATE: 7-07-06  
DRAWN BY: TRK  
CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

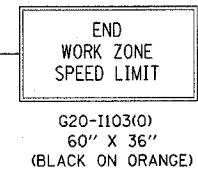
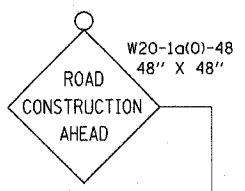
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| STATE                    | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 351                      | 537 R-1 | COOK  | 245          | 52        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT |              |           |
| CONTRACT # 62880         |         |   |              |           |



FOR CONTINUATION SEE DRAWING MT-12  
MATCH LINE STA 179+00

|                    |   |
|--------------------|---|
| WORK ZONE          | W2-1115(0)-3618<br>36" X 18"<br>(BLACK ON ORANGE) |
| SPEED LIMIT        | R2-1-3648<br>36" X 48"<br>35                      |
| BEGINS             | W2-1113(0)-3612<br>36" X 12"                      |
| \$375 FINE MINIMUM | R2-1106-3618<br>36" X 18"                         |



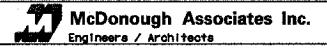
**LEGEND**

- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
- ⊥ TYPE III BARRICADE WITH LIGHT
- ➔ TRAFFIC LANE
- ⊥ TEMPORARY TRAFFIC ADVISORY SIGN
- ▨ WORK AREA
- ▬ TEMPORARY CONCRETE BARRIER
- ▴ IMPACT ATTENUATOR, TEMPORARY, FULLY REDIRECTIVE, NARROW, NCHRP 350, TEST LEVEL 2

**NOTE 1:**  
TEMPORARY CONCRETE BARRIER WALL SHALL BE PROVIDED WHEREVER THE VERTICAL DROP-OFF BETWEEN DRIVING LANES AND THE ADJACENT GROUND EXCEEDS 18 INCHES.

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
MAINTENANCE OF TRAFFIC - STAGE 2  
U.S. 45 (LAGRANGE ROAD)  
STA 179+00 TO STA 183+50  
SCALE: 1"=50'  
DATE: 7-07-06  
DRAWN BY: TRK  
CHECKED BY: RCH

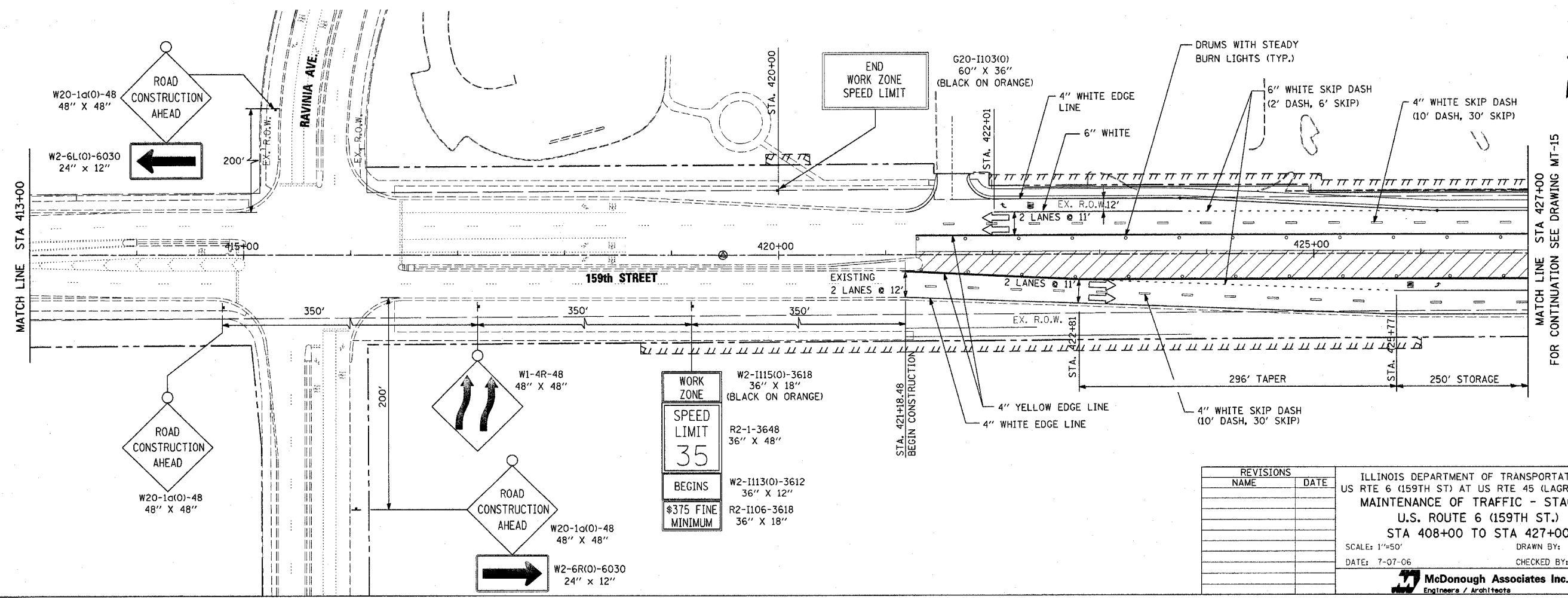
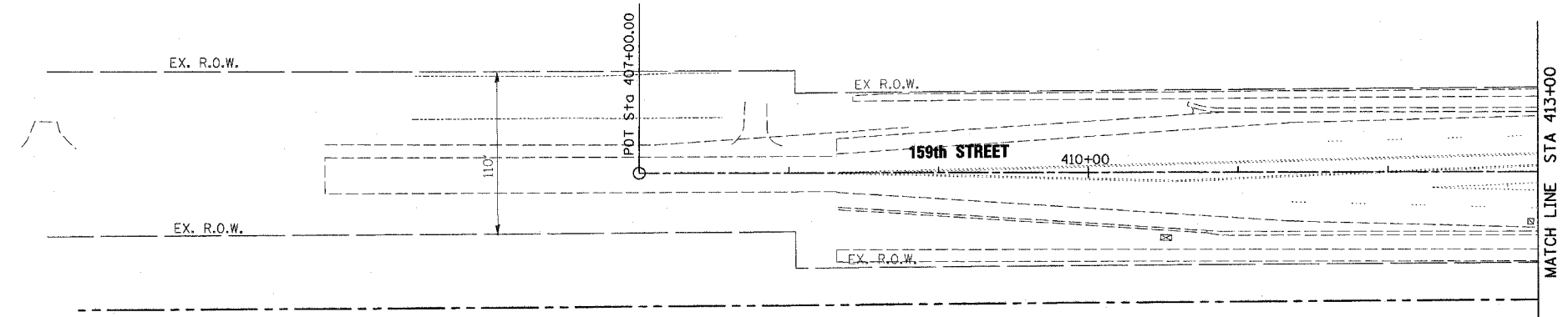


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| STATE                    | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 351                      | 537 R-1 | COOK  | 245          | 53        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT _____ |              |           |
| CONTRACT # 62880         |         |   |              |           |

**LEGEND**

- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
- ⌊ TYPE III BARRICADE WITH LIGHT
- ➡ TRAFFIC LANE
- ⊥ TEMPORARY TRAFFIC ADVISORY SIGN
- ▨ WORK AREA
- ▬ TEMPORARY CONCRETE BARRIER
- ▴ IMPACT ATTENUATOR, TEMPORARY, FULLY REDIRECTIVE, NARROW, NCHRP 350, TEST LEVEL 2



|                    |   |
|--------------------|---|
| WORK ZONE          | W2-1115(O)-3618<br>36" X 18"<br>(BLACK ON ORANGE) |
| SPEED LIMIT        | R2-1-3648<br>36" X 48"                            |
| BEGINS             | W2-1113(O)-3612<br>36" X 12"                      |
| \$375 FINE MINIMUM | R2-1106-3618<br>36" X 18"                         |

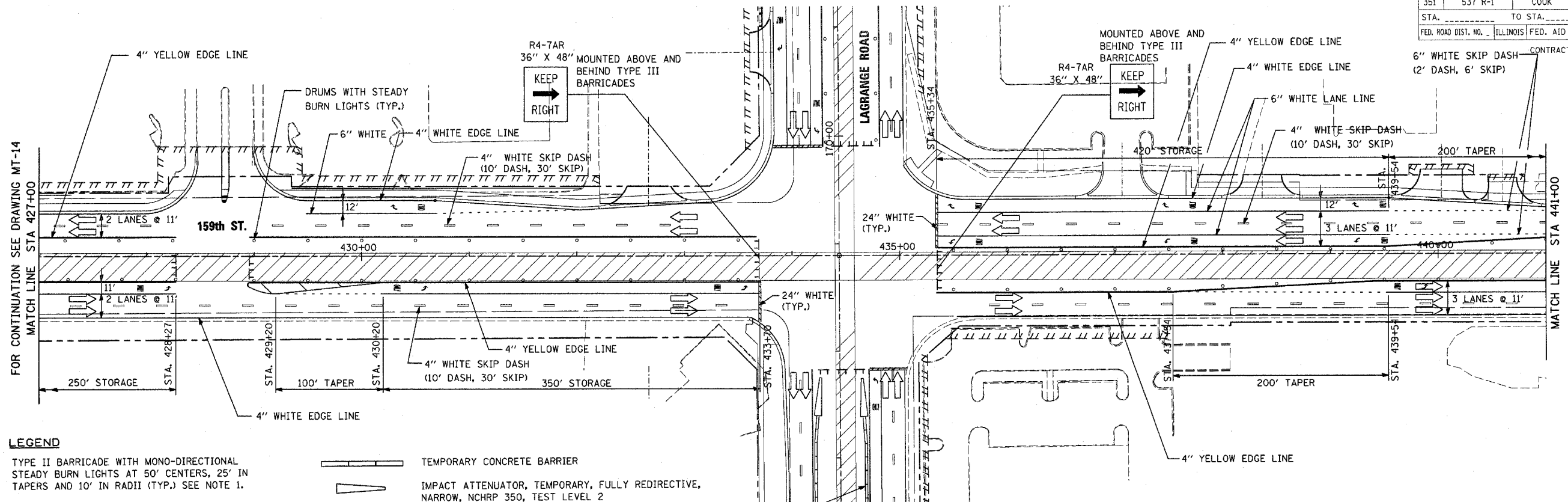
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 MAINTENANCE OF TRAFFIC - STAGE 2  
 U.S. ROUTE 6 (159TH ST.)  
 STA 408+00 TO STA 427+00  
 SCALE: 1"=50' DRAWN BY: TRK  
 DATE: 7-07-06 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects

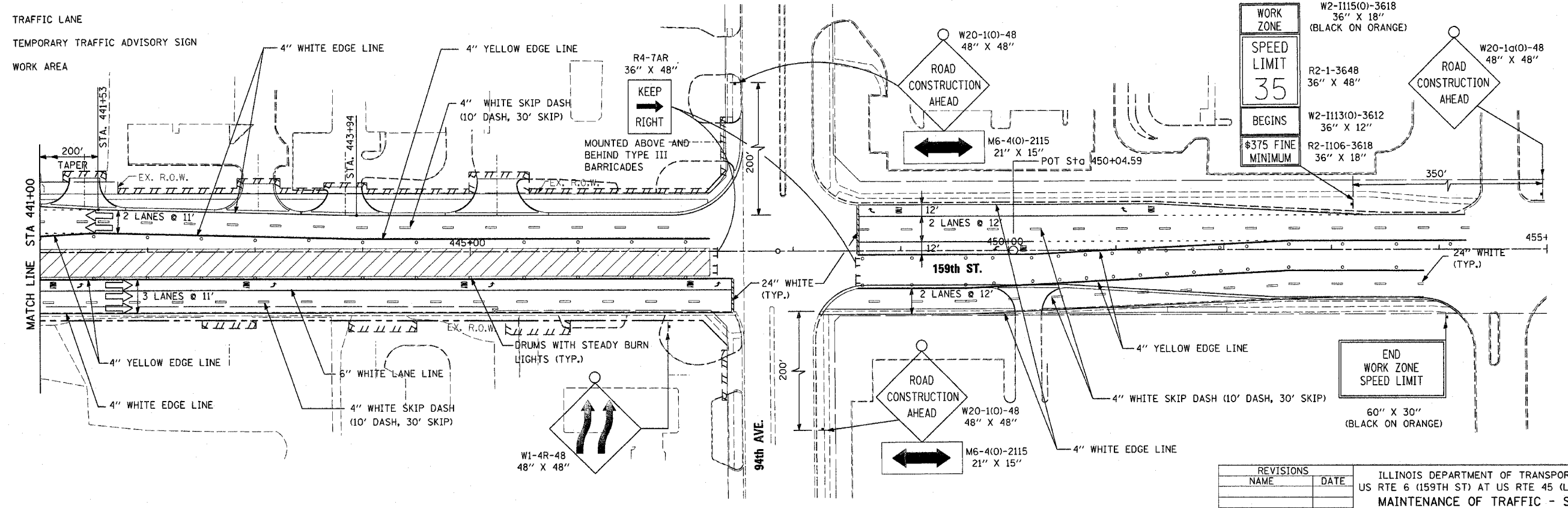
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| STATE   | SECTION | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 351   | 537 R-1 | COOK             | 245          | 54        |
| STA. _____ TO STA. _____                            |         | CONTRACT # 62880 |              |           |
| FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT |         |                  |              |           |



**LEGEND**

- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
- ⊥ TYPE III BARRICADE WITH LIGHT
- TRAFFIC LANE
- ⊥ TEMPORARY TRAFFIC ADVISORY SIGN
- ▨ WORK AREA
- ▬ TEMPORARY CONCRETE BARRIER
- ▬ IMPACT ATTENUATOR, TEMPORARY, FULLY REDIRECTIVE, NARROW, NCHRP 350, TEST LEVEL 2

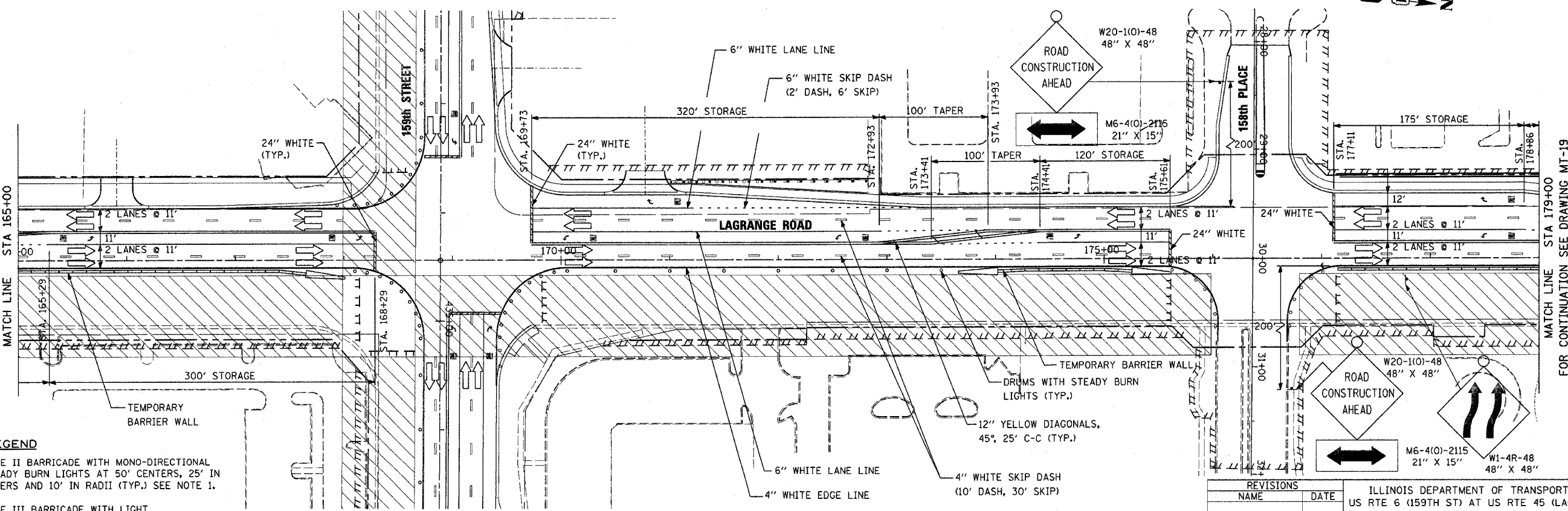
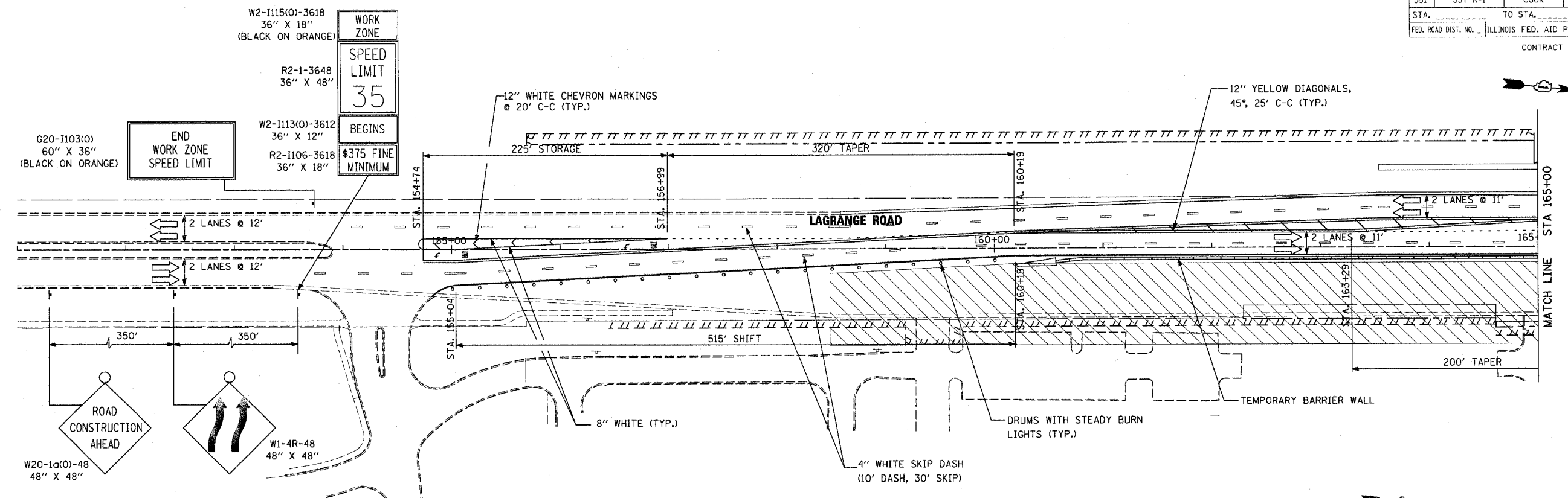


**NOTE 1:**  
SUB-STAGE AS NECESSARY FOR CONSTRUCTION WHILE MAINTAINING 2 LANES OPEN TO TRAFFIC IN ALL DIRECTIONS.

| REVISIONS | NAME | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
MAINTENANCE OF TRAFFIC - STAGE 2  
U.S. ROUTE 6 (159TH ST.)  
STA 427+00 TO 94TH AVE.  
SCALE: 1"=50'  
DATE: 7-07-06  
DRAWN BY: TRK  
CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects



- LEGEND**
- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
  - ⊥ TYPE III BARRICADE WITH LIGHT
  - TRAFFIC LANE
  - ⊥ TEMPORARY TRAFFIC ADVISORY SIGN
  - ▨ WORK AREA

- LEGEND**
- ▬ TEMPORARY CONCRETE BARRIER
  - ▨ IMPACT ATTENUATOR, TEMPORARY, FULLY REDIRECTIVE, NARROW, NCHRP 350, TEST LEVEL 2

**NOTE 1:**  
SUB-STAGE AS NECESSARY FOR CONSTRUCTION WHILE MAINTAINING 2 LANES OPEN TO TRAFFIC IN ALL DIRECTIONS.

**NOTE 2:**  
TEMPORARY CONCRETE BARRIER WALL SHALL BE PROVIDED WHEREVER THE VERTICAL DROP-OFF BETWEEN DRIVING LANES AND THE ADJACENT GROUND EXCEEDS 18 INCHES.

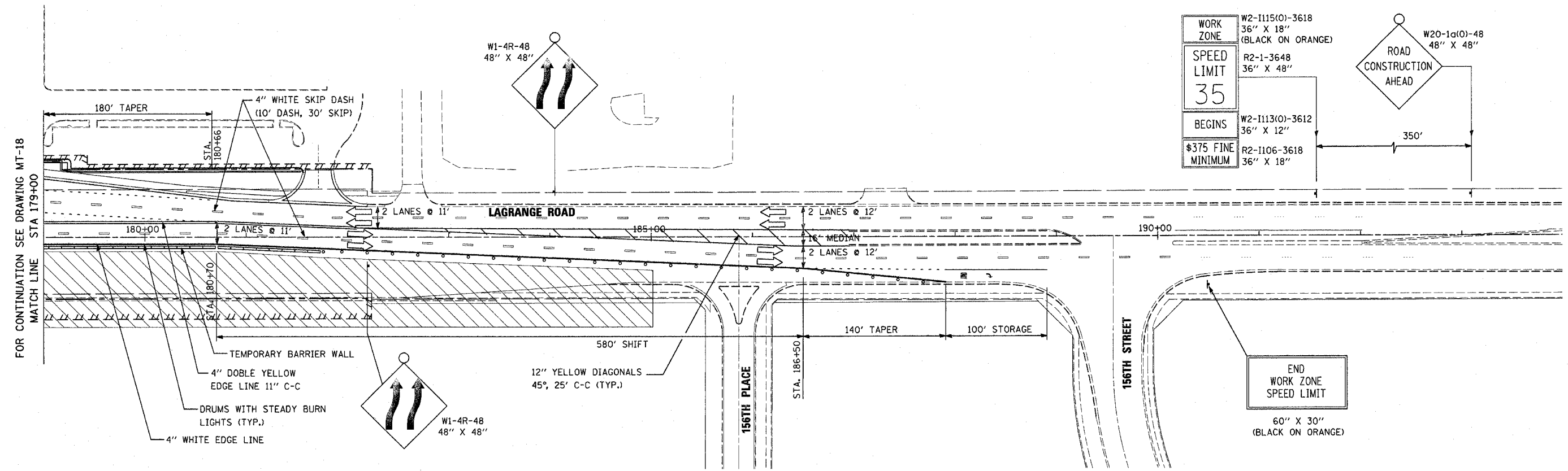
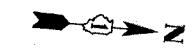
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
MAINTENANCE OF TRAFFIC - STAGE 3  
U.S. 45 (LAGRANGE ROAD)  
STA 151+00 TO STA 179+00  
SCALE: 1"=50'  
DATE: 7-07-06  
DRAWN BY: TRK  
CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

STILES  
DATES  
PLINES





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|--------------------|---|
| WORK ZONE          | W2-1115(O)-3618<br>36" X 18"<br>(BLACK ON ORANGE) |
| SPEED LIMIT        | R2-1-3648<br>36" X 48"                            |
| BEGINS             | W2-1113(O)-3612<br>36" X 12"                      |
| \$375 FINE MINIMUM | R2-1106-3618<br>36" X 18"                         |

350'

|                         |                           |
|-------------------------|---------------------------|
| ROAD CONSTRUCTION AHEAD | W20-1a(O)-48<br>48" X 48" |
|-------------------------|---------------------------|

FOR CONTINUATION SEE DRAWING MT-18  
MATCH LINE STA 179+00

**LEGEND**

- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
- TYPE III BARRICADE WITH LIGHT
- TRAFFIC LANE
- TEMPORARY TRAFFIC ADVISORY SIGN
- WORK AREA
- TEMPORARY CONCRETE BARRIER
- IMPACT ATTENUATOR, TEMPORARY, FULLY REDIRECTIVE, NARROW, NCHRP 350, TEST LEVEL 2

**NOTE 1:**  
TEMPORARY CONCRETE BARRIER SHALL BE PROVIDED WHEREVER THE VERTICAL DROP-OFF BETWEEN DRIVING LANES AND THE ADJACENT GROUND EXCEEDS 18 INCHES.

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)<br>MAINTENANCE OF TRAFFIC - STAGE 3<br>U.S. 45 (LAGRANGE ROAD)<br>STA 179+00 TO STA 183+50 |
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SCALE: 1"=50'      DRAWN BY: TRK  
DATE: 7-07-06      CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

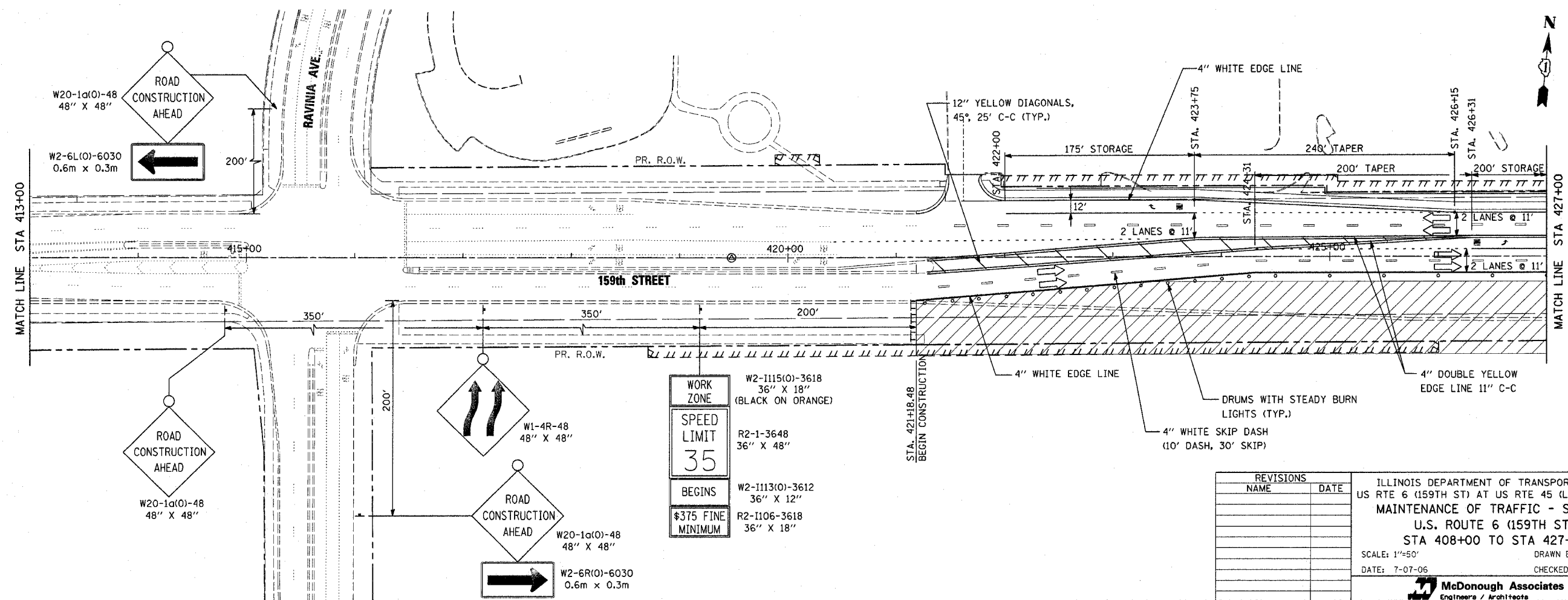
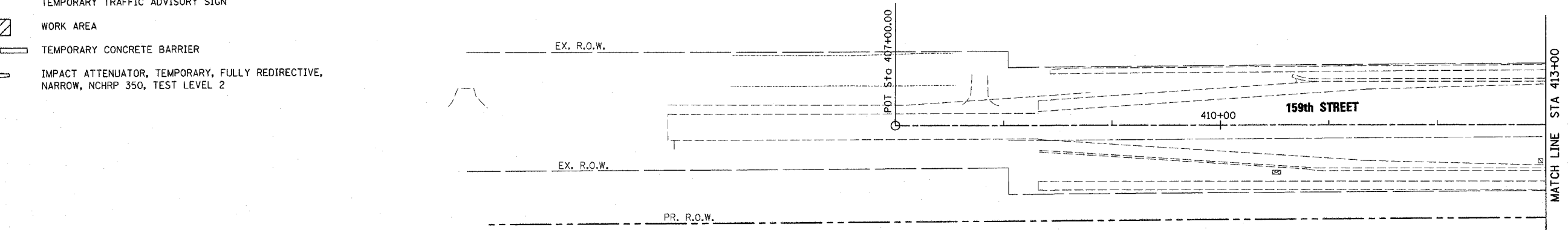
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| STATE                    | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 351                      | 537 R-1 | COOK  | 245          | 57        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT |              |           |
| CONTRACT # 62880         |         |   |              |           |

**LEGEND**

- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
- ┌ TYPE III BARRICADE WITH LIGHT
- TRAFFIC LANE
- ⊥ TEMPORARY TRAFFIC ADVISORY SIGN
- ▨ WORK AREA
- ▬ TEMPORARY CONCRETE BARRIER
- ▴ IMPACT ATTENUATOR, TEMPORARY, FULLY REDIRECTIVE, NARROW, NCHRP 350, TEST LEVEL 2



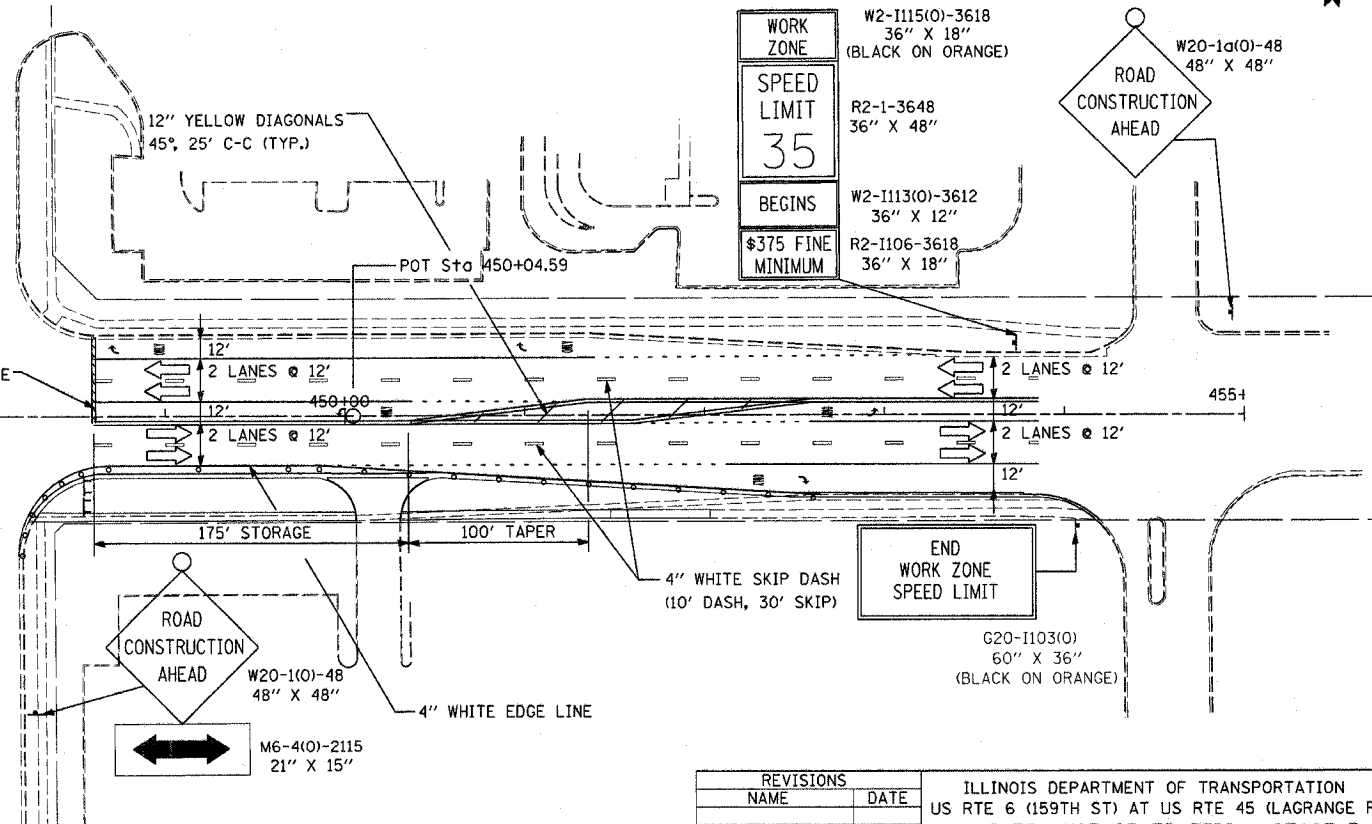
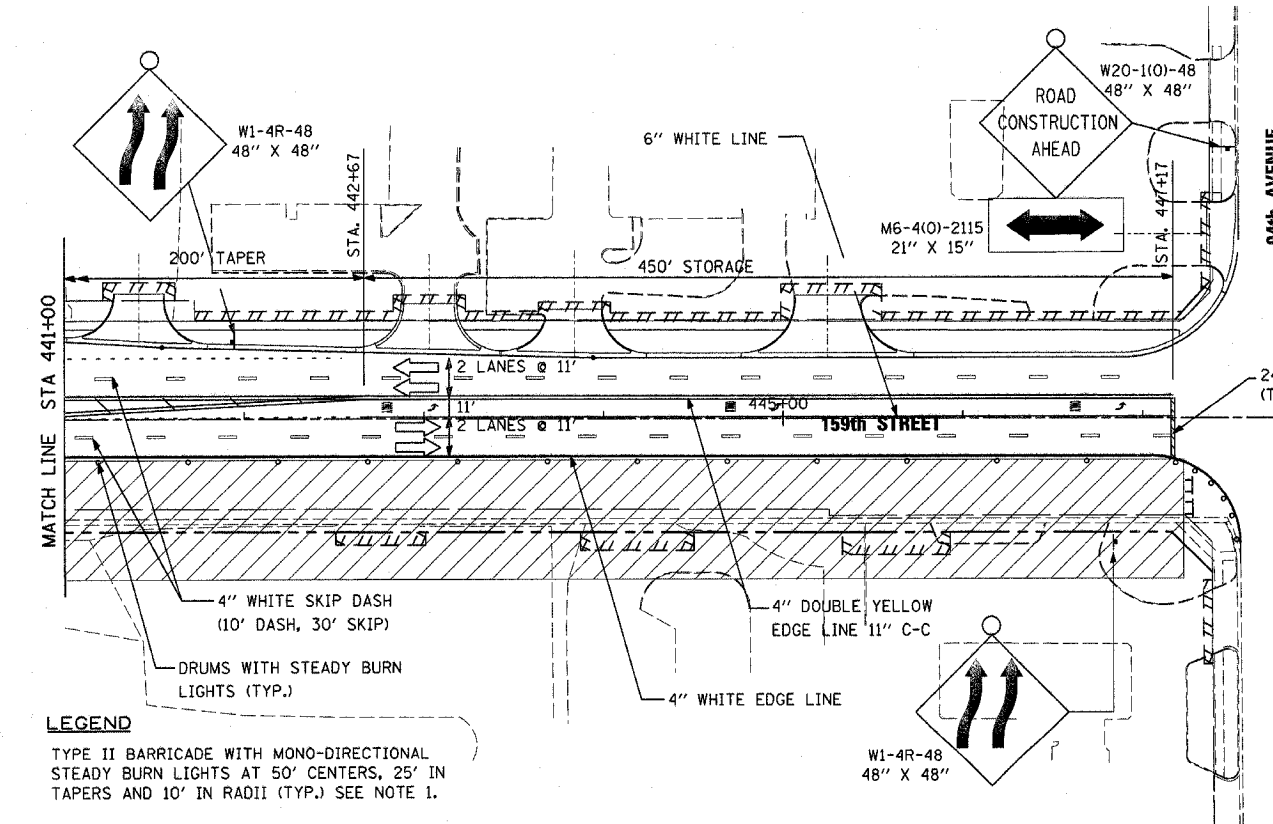
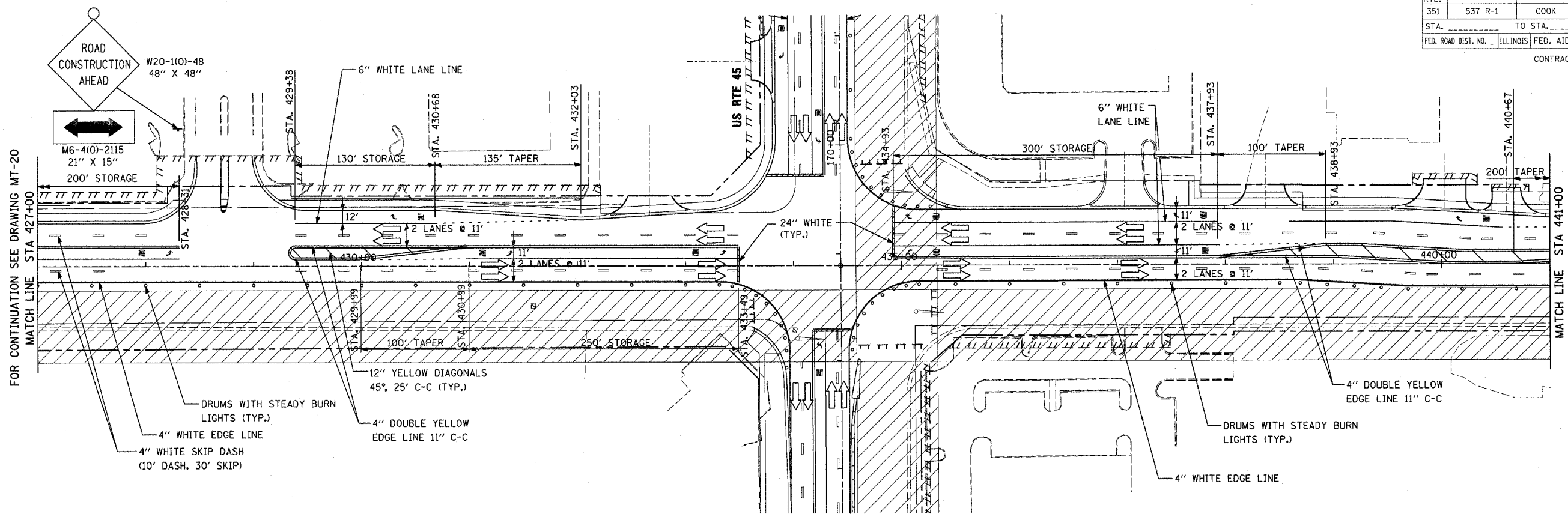
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
MAINTENANCE OF TRAFFIC - STAGE 3  
U.S. ROUTE 6 (159TH ST.)  
STA 408+00 TO STA 427+00  
SCALE: 1"=50' DRAWN BY: TRK  
DATE: 7-07-06 CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

FILES  
DATES  
STIMES

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| E.A.E. R.T.E.            | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 351                      | 537 R-1 | COOK  | 245          | 58        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT |              |           |
| CONTRACT # 62880         |         |   |              |           |



**LEGEND**

- TYPE II BARRICADE WITH MONO-DIRECTIONAL STEADY BURN LIGHTS AT 50' CENTERS, 25' IN TAPERS AND 10' IN RADII (TYP.) SEE NOTE 1.
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**NOTE 1:**  
SUB-STAGE AS NECESSARY FOR CONSTRUCTION WHILE MAINTAINING 2 LANES OPEN TO TRAFFIC IN ALL DIRECTIONS.

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**MAINTENANCE OF TRAFFIC - STAGE 3**  
U.S. ROUTE 6 (159TH ST.)  
STA 427+00 TO 94TH AVE.  
SCALE: 1"=50'  
DATE: 7-07-06  
DRAWN BY: TRK  
CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

FILES  
DATES  
TIMES

## GENERAL NOTES FOR EROSION CONTROL

1. PERIMETER EROSION BARRIER SHALL BE INSTALLED AT LOCATIONS SPECIFIED IN THE PLANS AT XX FEET OUTSIDE THE TOE OF SLOPE OR INSIDE THE RIGHT-OF-WAY WHICHEVER IS CLOSER TO THE CENTERLINE, OR AS DIRECTED BY THE ENGINEER PRIOR TO THE START OF ANY EARTHWORK, CULVERT, OR STORM SEWER CONSTRUCTION.
2. THE PERIMETER EROSION BARRIER SHALL REMAIN IN PLACE UNTIL ALL DISTURBED AREAS HAVE BEEN STABILIZED WITH VEGETATION. AT THIS TIME, THE PERIMETER EROSION BARRIER SHALL BE REMOVED AND AREAS DAMAGED BY THE FENCE INSTALLATION RESTORED.
3. THE FENCE INSTALLATION, MAINTENANCE, REMOVAL AND THE RESTORATION OF THE AREA DISTURBED BY THE FENCE INSTALLATION IS INCLUDED IN THE PAY ITEM PERIMETER EROSION BARRIER.
4. HAY OR STRAW BALE DITCH CHECKS SHALL BE CONSTRUCTED AS PER STANDARD 2381 ON 100 FEET CENTERS AS SHOWN HEREON OR AS DIRECTED BY THE ENGINEER. THE DITCH CHECKS SHALL BE INSTALLED AS GRADING PROGRESSES THROUGH THE PROJECT.
5. THE PAY ITEM FOR HAY OR STRAW BALES SHALL INCLUDE THE COST OF INSTALLATION.
6. THE WORK DESCRIBED ON THESE DRAWINGS ARE AN INTEGRAL PART OF THE STORM WATER POLLUTION PREVENTION PLAN USED TO OBTAIN A NPDES PERMIT FROM IEPA FOR THE CONSTRUCTION OF THIS PROJECT.
7. THE PURPOSE OF THE EROSION AND SEDIMENT CONTROL MEASURES INCLUDED FOR THIS PROJECT IS TO LIMIT THE SEDIMENT POLLUTION IMPACT, OF ANY STORM WATER DISCHARGES THAT ORIGINATE ON THIS SITE OR OFF-SITE FLOWS THAT FLOW OVER THE DISTURBED AREAS, ON DOWNSTREAM AREAS.
8. IT IS THE RESPONSIBILITY OF THE CONTRACTOR TO INSURE THAT SEDIMENT TRANSPORT OFF THE SITE IS REDUCED BY A COMBINATION OF MINIMIZATION OF EROSION AT THE SOURCE AND INSTALLATION OF SPECIFIC MEASURES TO CONTROL OR REDUCE THE TRANSPORT OF SEDIMENT. A COPY OF THE EROSION AND SEDIMENT CONTROL SCHEDULE BEING IMPLEMENTED BY THE CONTRACTOR WILL BE ON THE CONSTRUCTION SITE AT ALL TIMES.
9. TO THE MAXIMUM EXTENT POSSIBLE, ALL FLOWS ORIGINATING OFF THE CONSTRUCTION SITE WILL BE DIVERTED AROUND DISTURBED AREAS OR WILL BE CONVEYED THROUGH THE SITE IN A MANNER THAT UNTREATED ON-SITE RUNOFF DOES NOT MIX WITH THE OFF-SITE RUNOFF.
10. ALL RUNOFF ORIGINATING ON DISTURBED AREAS ASSOCIATED WITH THIS PROJECT WILL PASS THROUGH ONE OR MORE MEASURES THAT WILL MINIMIZE THE OFF-SITE SEDIMENT IMPACTS OF THE CONSTRUCTION ACTIVITY.
11. DISTURBED AREAS ARE TO BE PROTECTED FROM EROSION IN A TIMELY MANNER. UPON COMPLETION OF GRADING OR CONSTRUCTION, THE AREA WILL BE STABILIZED (USING PERMANENT MEASURES WHEN POSSIBLE) WITHIN 7 CALENDAR DAYS. TEMPORARY STABILIZATION THROUGH USE OF GROUND COVER, MULCHING, OR OTHER APPROVED MEASURES WILL BE INSTALLED WHENEVER SITE DEVELOPMENT WORK, GRADING OR OTHER EARTH DISTURBING ACTIVITIES CEASE TO BE CONTINUOUS FOR A PERIOD EXCEEDING 14 CALENDAR DAYS. THE 7/14 DAY REQUIREMENT IS TAKEN TO MEAN THAT THE STABILIZATION OPERATION IS COMPLETE OR NEARING COMPLETION IN THE DEFINED TIME.
12. STABILIZATION OF CUT OR FILL SLOPES WITH TEMPORARY OR PERMANENT EROSION CONTROL MEASURES IS REQUIRED WHENEVER THE CUT OR FILL ACTIVITY REACHES 10 FEET VERTICALLY OR THE FINISHED SLOPE EQUALS 30 FEET, WHICHEVER IS MORE RESTRICTIVE. ONCE THE STABILIZATION MEASURES ARE INSTALLED, THE PLACEMENT OF FILL EXCAVATION ACTIVITIES ARE ALLOWED TO PROCEED.
13. THE CONTRACTOR SHALL DESIGNATE ONE OF HIS EMPLOYEES AS RESPONSIBLE FOR IMPLEMENTATION OF THE EROSION AND SEDIMENT CONTROL PLAN ON ALL DISTURBED AREAS. THIS PERSON IS TO BE KNOWLEDGEABLE ABOUT INSTALLATION AND MAINTENANCE OF THE REQUIRED MEASURES. THIS EMPLOYEE IS TO HAVE THE AUTHORITY TO CARRY OUT THE IMPLEMENTATION OF ANY INSTRUCTIONS CONCERNING THE EROSION AND SEDIMENT CONTROL PLAN GIVEN BY THE ENGINEER. ALL MEASURES WILL BE INSPECTED BY THIS INDIVIDUAL AND THE ENGINEER ON A REGULAR BASIS (AT LEAST ONCE EVERY 7 DAYS) AND AFTER RAINFALL EVENT GREATER THAN 0.5 INCHES.
14. SEDIMENT TRAPS, SEDIMENT BASINS, DITCHES, PERIMETER EROSION BARRIER, STONE OUTLET STRUCTURES, EARTH BERMS, ETC. SHALL BE MAINTAINED DURING THE CONSTRUCTION SEASON AS WELL AS THE WINTER MONTHS AND OTHER TIMES WHEN THE PROJECT IS CLOSED DOWN. TRAPS WILL BE CLEANED WHEN THEY ARE 75% FILLED. SILT FENCE STONE OUTLET STRUCTURES SHALL HAVE SEDIMENT REMOVED WHEN IT REACHES 75% THE HEIGHT OF THE CONTROL DEVICE. THESE SPOILS WILL BE REMOVED TO AN APPROVED SITE.
15. MATERIALS EXCAVATED FOR THE CONSTRUCTION OR CLEANOUT OF SEDIMENT TRAPS OR SEDIMENT BASINS SHALL NOT BE STOCKPILED IN THE VICINITY OF THE TRAP OR BASIN. IT WILL EITHER BE PLACED IN AN EMBANKMENT OR WASTED AS DIRECTED BY THE ENGINEER.

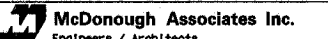
## GENERAL NOTES FOR EROSION CONTROL CONT'D

16. EXCAVATION TO BE USED FOR EMBANKMENTS SHALL NOT BE STOCKPILED UNLESS PERIMETER CONTROLS ARE UTILIZED. WHEN THIS MATERIAL IS STOCKPILED FOR THE CONVENIENCE OF THE CONTRACTOR THE COST OF THE CONTROLS ARE BORNE BY THE CONTRACTOR. IF THE MATERIAL IS STOCKPILED AT THE DIRECTION OF THE ENGINEER THE DEPARTMENT WILL ASSUME THE COSTS OF THE CONTROLS.
17. SEDIMENT LADEN DEWATERING DISCHARGE MUST BE DIRECTED TO AN APPROVED SEDIMENT TRAPPING MEASURE PRIOR TO RELEASE FROM THE SITE.
18. ALL EROSION AND SEDIMENT CONTROL MEASURES WILL NOT BE LEFT IN PLACE. THESE MEASURES WILL BE REMOVED BY THE CONTRACTOR ON ESTABLISHMENT OF NPDES DEFINED FINAL STABILIZATION.
19. WHEN THE CONTRACTOR REQUESTS A CHANGE TO POSTPONE COMPLETION OF THE EXCAVATION OF A SPECIFIC AREA AS A CONTINUOUS OPERATION AND PLACING THE TOPSOIL AS DEFINED IN THE STANDARD SPECIFICATIONS, THE ENGINEER MAY ALLOW THE CONTRACTOR TO STABILIZE THE AREA USING TEMPORARY STABILIZATION WITH STRAW MULCH PROVIDING THE FOLLOWING CONDITIONS ARE MET:
  - (A) ALL AREAS BEING STABILIZED ARE 3:1 SLOPES OR FLATTER.
  - (B) THE CONTRACTOR BEARS THE COST OF PREPARING THE SEED BED AND STABILIZING THE AREA WITH TEMPORARY STABILIZATION WITH STRAW MULCH.
  - (C) ALL REQUIRED SEDIMENT CONTROL MEASURES FOR THE SECTION OF ROAD IN QUESTION HAVE BEEN INSTALLED AND ARE BEING MAINTAINED.
20. SEEDING USAGE
  - CLASS 7: LONG TERM TEMPORARY EROSION CONTROL SEEDING
  - CLASS 2A: SALT TOLERANT ROADSIDE MIX USED FOR NEW CONSTRUCTION OF LIMITED ACCESS ROUTES INTENDED TO BE MOWED BY IDOT.
  - CLASS 4A: USED ON PERMANENT 1:2 SLOPES AND 1:3 SLOPES HIGHER THAN 3 METERS.
21. TEMPORARY EROSION CONTROL SEEDING:

|                           |         |                                 |              |           |
|---------------------------|---------|---------------------------------|--------------|-----------|
| STATE                     | SECTION | COUNTY                          | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                            | 245          | 59        |
| STA. _____                |         | TO STA. _____                   |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT _____ |              |           |
| CONTRACT # 62880          |         |                                 |              |           |

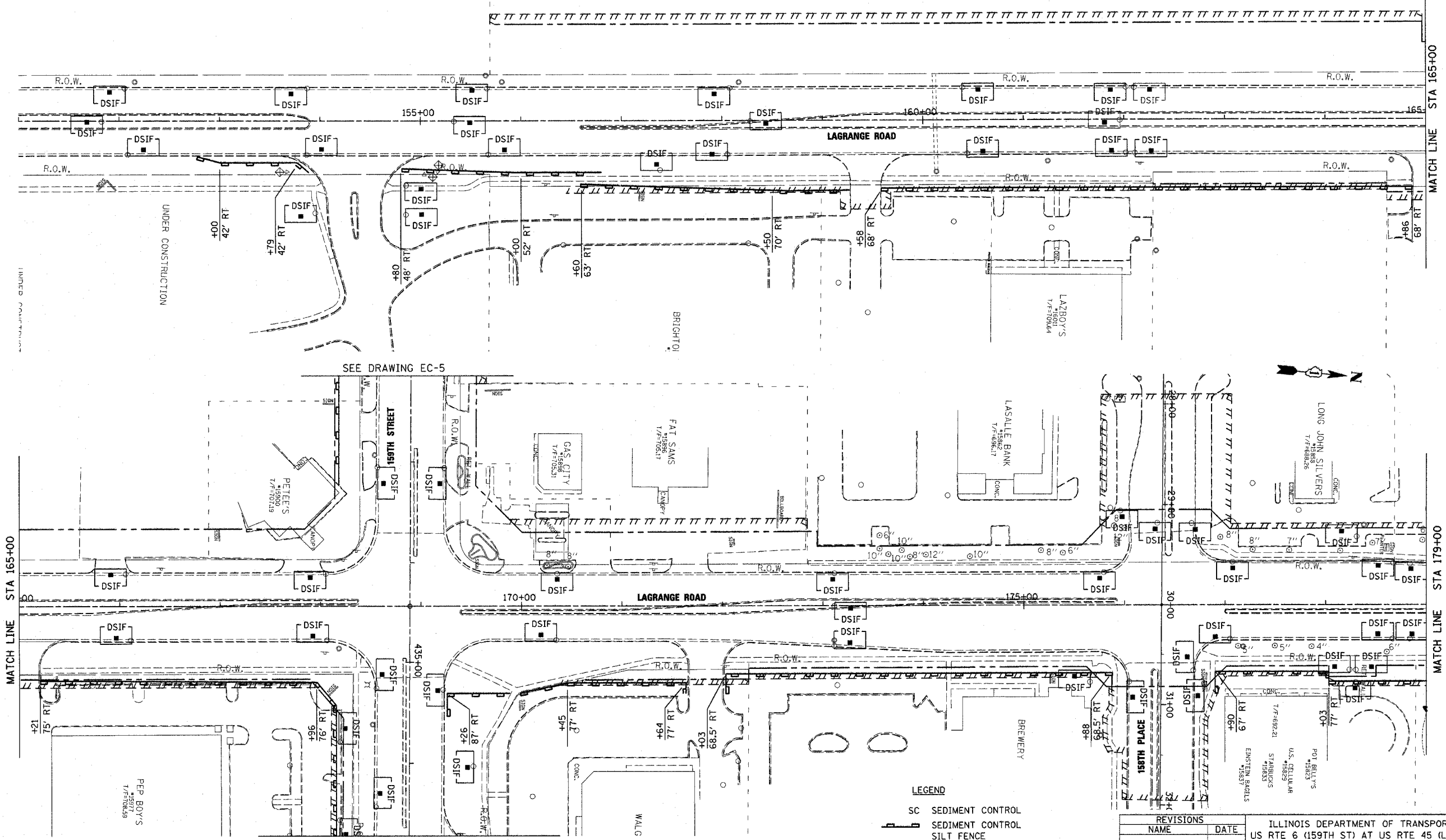
## EROSION AND SEDIMENT CONTROL (ESC) STRATEGY

1. CLEAR AND GRUB. REMOVE EXISTING TREES AS NECESSARY. ERECT NEW SEDIMENT CONTROL (SC) SILT FENCE AS SHOWN IN THE PLAN.
2. CONSTRUCT EMBANKMENT FOR TEMPORARY PAVEMENT. STABILIZE EMBANKMENT WITH SEED AND EROSION CONTROL BLANKET. CONSTRUCT DIVERSION DIKE AT TOP OF SLOPE AND TEMPORARY PIPE SLOPE DRAIN.
3. CONSTRUCT TEMPORARY PAVEMENT AND RELOCATE TRAFFIC TO STAGE I ALIGNMENT. BEGIN STAGE I.
4. CLEAR AND GRUB. REMOVE EXISTING TREES AS NECESSARY. ERECT NEW SEDIMENT CONTROL (SC) SILT FENCE AS SHOWN IN THE PLAN.
5. ESTABLISH PROPOSED DITCH, STABILIZE WITH SEED AND EROSION CONTROL BLANKET. INSTALL TEMPORARY DITCH CHECK AT 18" VERTICAL INTERVALS. ERECT SEDIMENT CONTROL (SC) SILT FENCE ON ROADWAY SIDE OF STABILIZED DITCH TO SEPARATE NEW DITCH FROM EMBANKMENT WORK ZONE.
6. CONSTRUCT STAGE I PAVEMENT. RELOCATE TRAFFIC TO STAGE II ALIGNMENT.
7. CONSTRUCT STAGE II PAVEMENT. RELOCATE TRAFFIC TO STAGE III ALIGNMENT.
8. REMOVE TEMPORARY PAVEMENT. STABILIZE DISTURBED EMBANKMENTS.
9. ESTABLISH PROPOSED DITCH, STABILIZE WITH SEED AND EROSION CONTROL BLANKET. INSTALL TEMPORARY DITCH CHECK (SPECIAL) AT 18" VERTICAL INTERVALS. RE-USE UNITS SALVAGED FROM THE STAGE I DITCH. ERECT SEDIMENT CONTROL (SC) SILT FENCE ON ROADWAY SIDE OF STABILIZED DITCH TO SEPARATE NEW DITCH FROM EMBANKMENT WORK ZONE.
10. CONSTRUCT STAGE III PAVEMENT. STABILIZE DISTURBED EMBANKMENTS SWITCH TRAFFIC TO FINAL ALIGNMENT.
11. WHEN FINAL STABILIZATION IS ESTABLISHED, REMOVE TEMPORARY PIPE SLOPE DRAINS AND TEMPORARY DITCH CHECKS (SPECIAL). OBLITERATE DIVERSION DIKES AND STABILIZE DISTURBED AREA.

| REVISIONS  |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD) |
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| NAME   | DATE |   |
|  |      | <b>TEMP. EROSION CONTROL PLAN<br/>GENERAL NOTES</b>                                     |
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| DATE: 7-07-06  |      | CHECKED BY: RCH   |
|  <b>McDonough Associates Inc.</b><br>Engineers / Architects |      |   |

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| STATE                     | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| ILLINOIS                  | 537 R-1 | COOK                      | 245          | 60        |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |

CONTRACT # 62880



INDEXED PARTIAL

MATCH LINE STA 165+00

MATCH LINE STA 165+00

MATCH LINE STA 179+00 FOR CONTINUATION SEE DRAWING EC-3

SEE DRAWING EC-5

SEE DRAWING EC-5

- LEGEND**
- SC SEDIMENT CONTROL
  - SEDIMENT CONTROL
  - SILT FENCE
  - ⊕ INLET & PIPE PROTECTION
  - DSIF SC, DRAINAGE STRUCTURE
  - INLET FILTER
  - EROSION CONTROL BLANKET
  - SEEDING CLASS 7

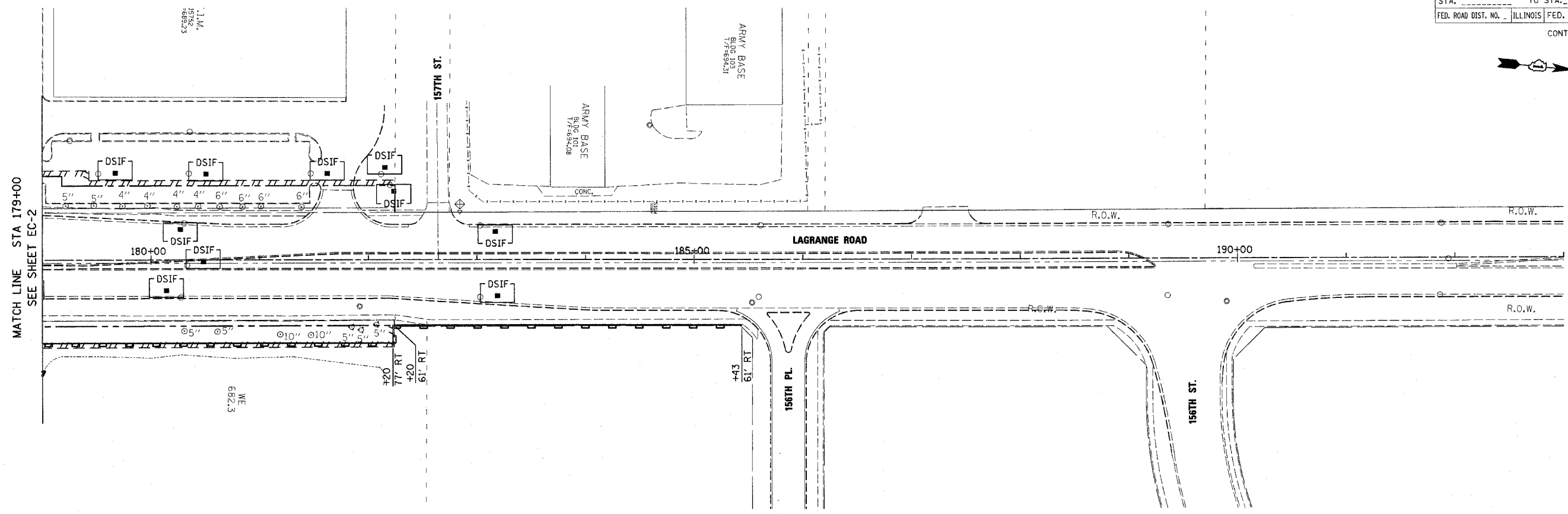
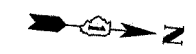
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 45 (LAGRANGE ROAD)  
 TEMP. EROSION CONTROL PLAN - PRE-STAGE  
 STA 151+00 TO STA 179+00  
 SCALE: 1"=50' DRAWN BY: BFH  
 DATE: 7-07-06 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects






FILES  
DATES  
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| E.A.P. RTE.         | SECTION | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| 351                 | 537 R-1 | COOK     | 245              | 61        |
| STA.                |         | TO STA.  |                  |           |
| FED. ROAD DIST. NO. |         | ILLINOIS | FED. AID PROJECT |           |
| CONTRACT # 62880    |         |          |                  |           |



MATCH LINE STA 179+00  
SEE SHEET EC-2

**LEGEND**

- SC SEDIMENT CONTROL
-  SEDIMENT CONTROL INLET FENCE
-  INLET & PIPE PROTECTION
-  DSIF SC, DRAINAGE STRUCTURE INLET FILTER
-  EROSION CONTROL BLANKET
-  SEEDING CLASS 7

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 45 (LAGRANGE ROAD)  
 TEMP. EROSION CONTROL PLAN - PRE-STAGE  
 STA 179+00 TO STA 183+50  
 SCALE: 1"=50' DRAWN BY: BFH  
 DATE: 7-07-06 CHECKED BY: RCH

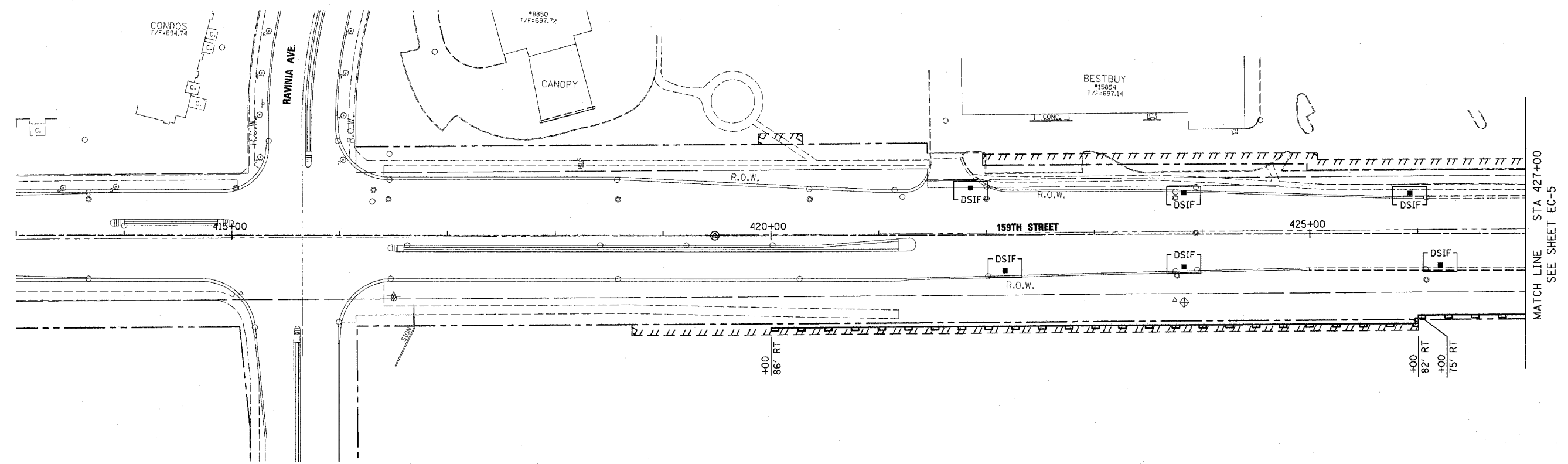


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| F.A.P. RTE.               | SECTION | COUNTY        | TOTAL SHEETS     | SHEET NO. |
| 351                       | 537 R-1 | COOK          | 245              | 62        |
| STA. _____                |         | TO STA. _____ |                  |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS      | FED. AID PROJECT |           |
| CONTRACT # 62880          |         |               |                  |           |

**LEGEND**

- SC SEDIMENT CONTROL
- SEDIMENT CONTROL
- SILT FENCE
- INLET & PIPE PROTECTION
- DSIF INLET FILTER
- EROSION CONTROL BLANKET
- SEEDING CLASS 7



| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)<br>US RTE 6 (159TH STREET)<br>TEMP. EROSION CONTROL PLAN - PRE-STAGE<br>STA 408+00 TO STA 427+00 |
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SCALE: 1"=50'      DRAWN BY: BFH  
DATE: 7-07-06      CHECKED BY: RCH

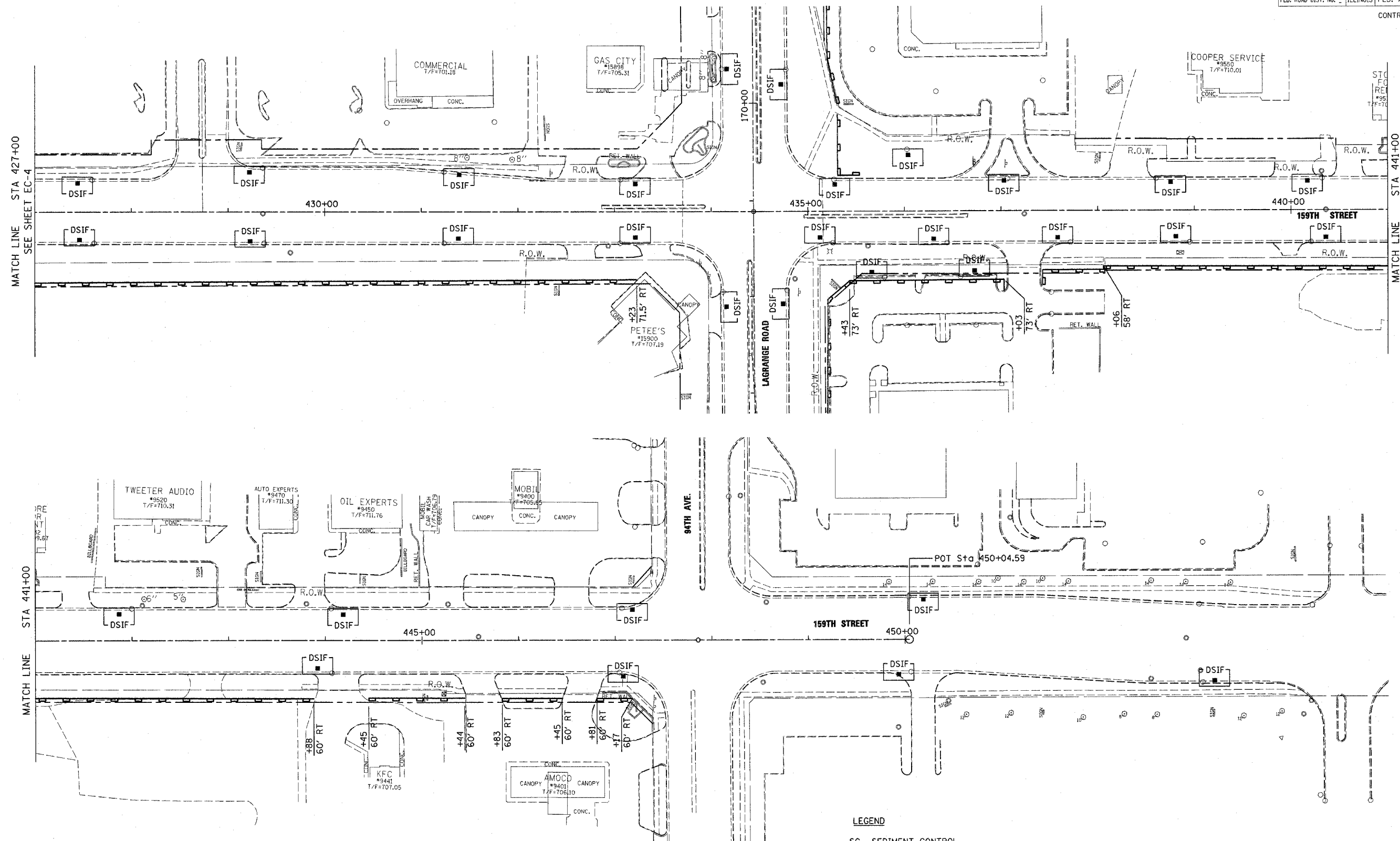
**McDonough Associates Inc.**  
Engineers / Architects

FILES  
DATES  
TIMES



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| STATE                    | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 351                      | 537 R-1 | COOK  | 245          | 63        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT |              |           |

CONTRACT # 62880



**LEGEND**

- SC SEDIMENT CONTROL
- SEDIMENT CONTROL
- SILT FENCE
- ⊕ INLET & PIPE PROTECTION
- DSIF SC, DRAINAGE STRUCTURE
- INLET FILTER
- EROSION CONTROL BLANKET
- SEEDING CLASS 7

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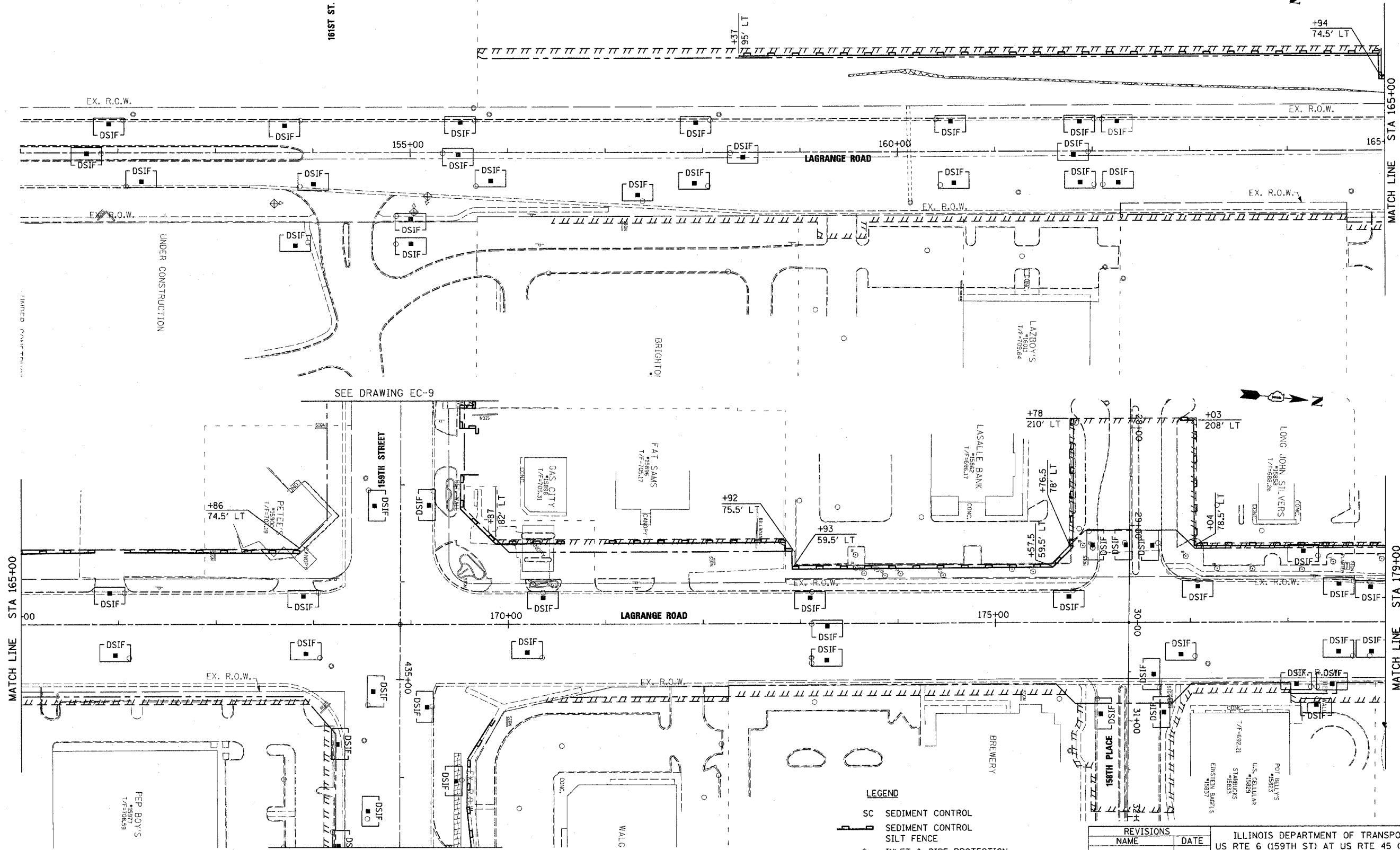
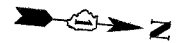
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**US RTE 6 (159TH STREET)**  
 TEMP. EROSION CONTROL PLAN - PRE-STAGE  
 STA 427+00 TO 94TH AVENUE  
 SCALE: 1"=50'  
 DATE: 7-07-06  
 DRAWN BY: BFH  
 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects

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| F.A.D. R.T.E.             | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                      | 245          | 64        |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |

CONTRACT # 62880



UNDER CONSTRUCTION

MATCH LINE STA 165+00

MATCH LINE STA 179+00 FOR CONTINUATION SEE DRAWING EC-7

SEE DRAWING EC-9

SEE DRAWING EC-9

- LEGEND**
- SC SEDIMENT CONTROL
  - SEDIMENT CONTROL SILT FENCE
  - INLET & PIPE PROTECTION
  - SC, DRAINAGE STRUCTURE INLET FILTER
  - EROSION CONTROL BLANKET
  - MULCH METHOD 2
  - SEEDING CLASS 7

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 45 (LAGRANGE ROAD)  
 TEMP. EROSION CONTROL PLAN - STAGE 1  
 STA 151+00 TO STA 179+00  
 SCALE: 1"=50' DRAWN BY: BFH  
 DATE: 7-07-06 CHECKED BY: RCH

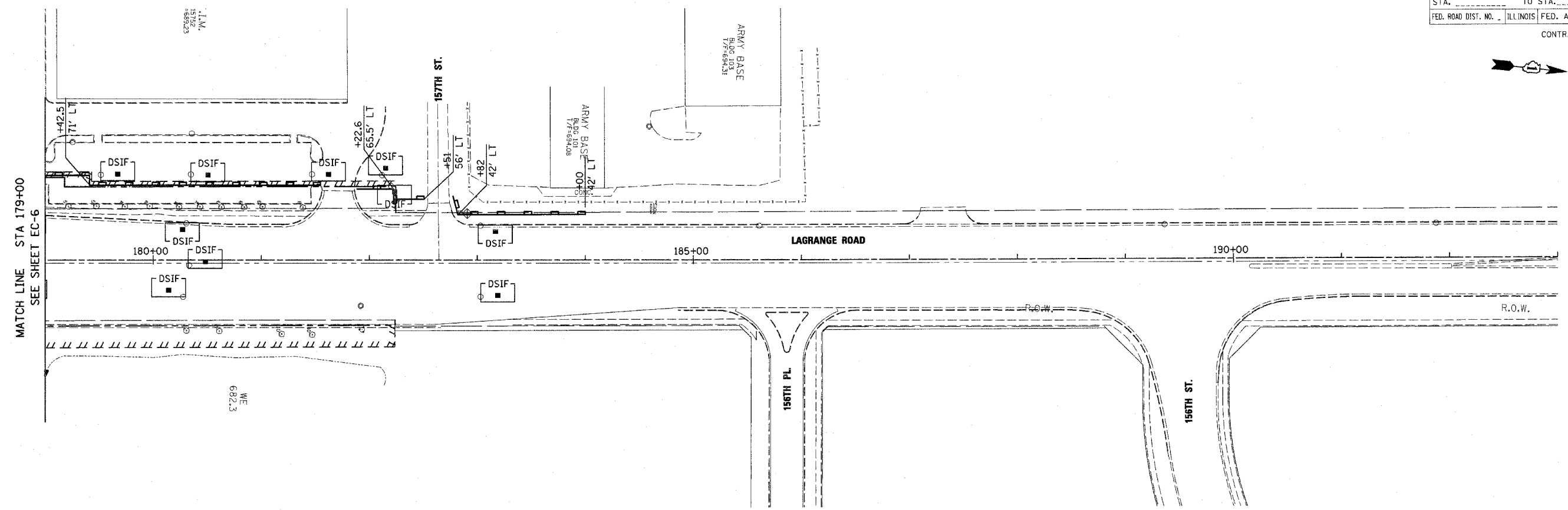
**McDonough Associates Inc.**  
 Engineers / Architects

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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 351         | 537 R-1 | COOK   | 245          | 65        |

STA. \_\_\_\_\_ TO STA. \_\_\_\_\_  
 FED. ROAD DIST. NO. \_\_\_\_\_ ILLINOIS FED. AID PROJECT

CONTRACT # 62880



**LEGEND**

- SC SEDIMENT CONTROL
- SEDIMENT CONTROL SILT FENCE
- INLET & PIPE PROTECTION
- SC, DRAINAGE STRUCTURE INLET FILTER
- EROSION CONTROL BLANKET
- SEEDING CLASS 7

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 45 (LAGRANGE ROAD)  
 TEMP. EROSION CONTROL PLAN - STAGE 1  
 STA 179+00 TO STA 183+50  
 SCALE: 1"=50' DRAWN BY: BFH  
 DATE: 7-07-06 CHECKED BY: RCH

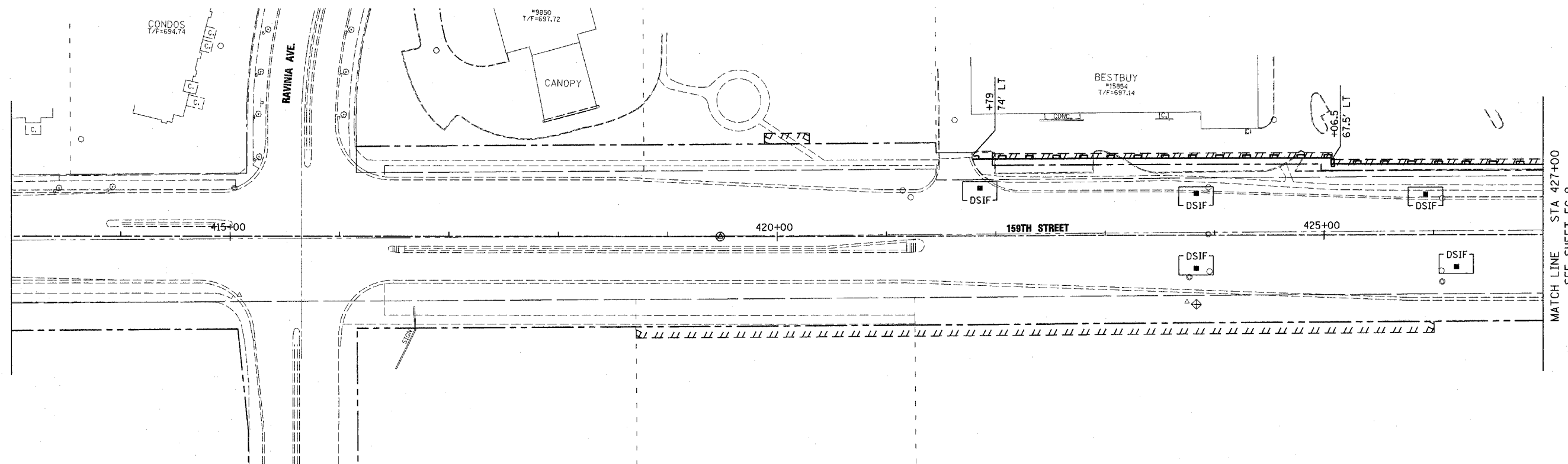
McDonough Associates Inc.  
 Engineers / Architects

FILES  
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| E.A.P. NO.                | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                      | 245          | 66        |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |
| CONTRACT # 62880          |         |                           |              |           |

**LEGEND**

- SC SEDIMENT CONTROL
- SEDIMENT CONTROL
- SILT FENCE
- INLET & PIPE PROTECTION
- SC, DRAINAGE STRUCTURE INLET FILTER
- EROSION CONTROL BLANKET
- SEEDING CLASS 7



MATCH LINE STA 427+00  
SEE SHEET EC-9

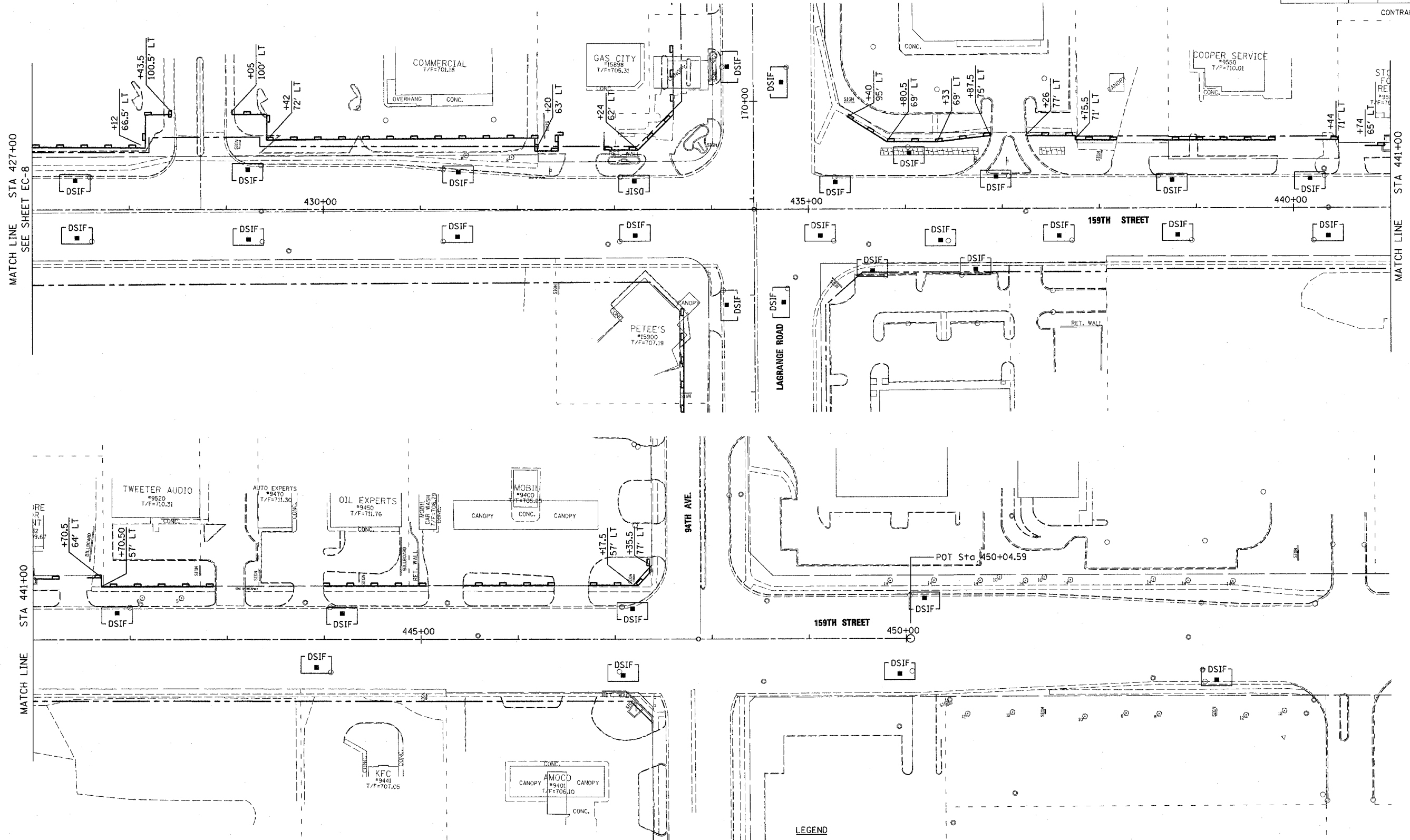
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| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)<br>US RTE 6 (159TH STREET)<br>TEMP. EROSION CONTROL PLAN - STAGE 1<br>STA 408+00 TO STA 427+00<br>SCALE: 1"=50'<br>DATE: 7-07-06 | DRAWN BY: BFH<br>CHECKED BY: RCH |
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**McDonough Associates Inc.**  
Engineers / Architects

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| F.A.D. RTE.               | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                      | 245          | 67        |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |

CONTRACT # 62880



- LEGEND**
- SC SEDIMENT CONTROL
  - SEDIMENT CONTROL
  - SILT FENCE
  - INLET & PIPE PROTECTION
  - DSIF SC, DRAINAGE STRUCTURE
  - INLET FILTER
  - EROSION CONTROL BLANKET
  - SEEDING CLASS 7

| REVISIONS |      |
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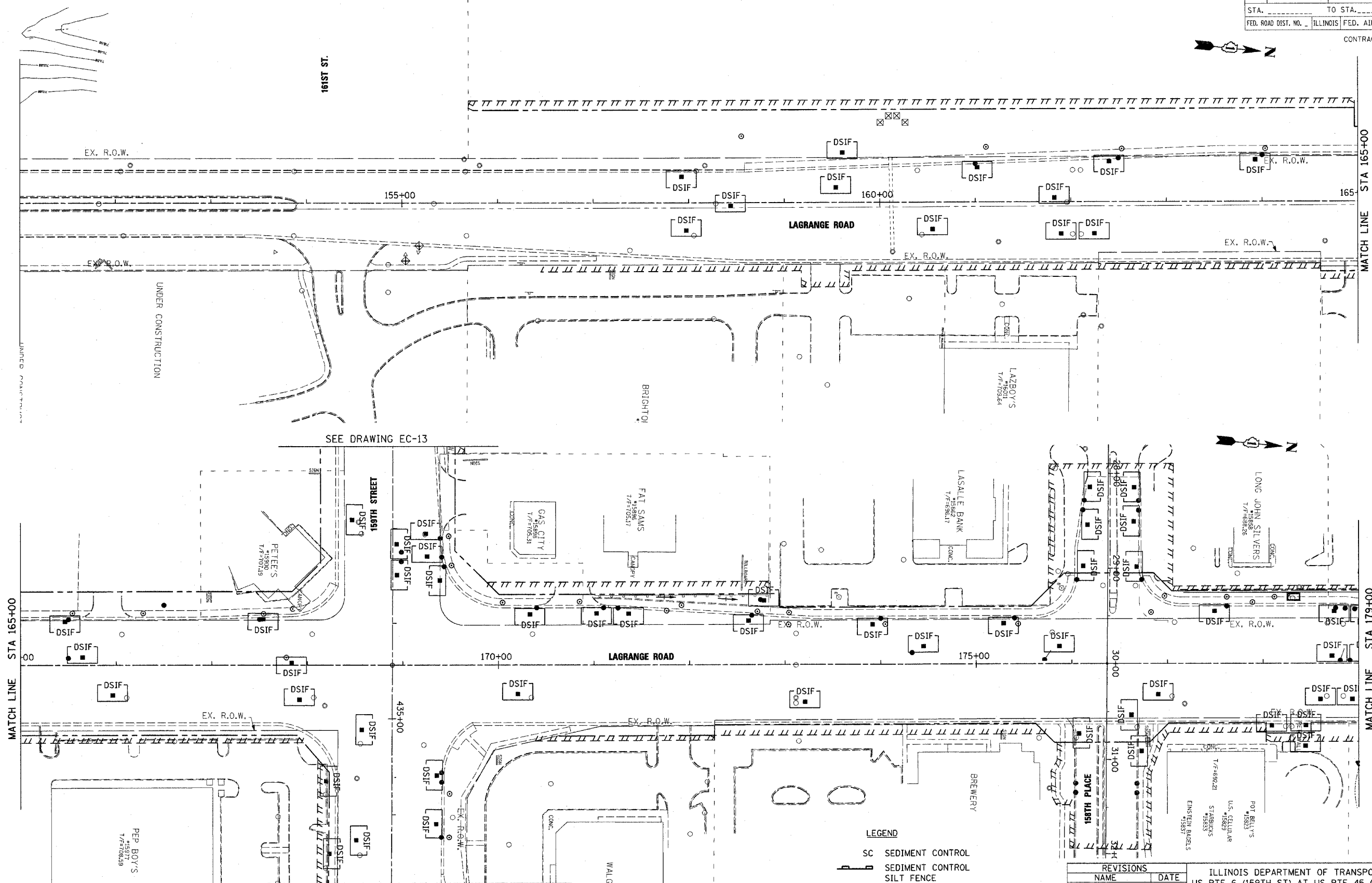
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 6 (159TH STREET)  
 TEMP. EROSION CONTROL PLAN - STAGE 1  
 STA 427+00 TO 94TH AVENUE  
 SCALE: 1"=50' DRAWN BY: BFH  
 DATE: 7-07-06 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects

FILES  
 DATES  
 TIMES

|                           |         |                           |              |           |
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| F.A.P. NO.                | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                      | 245          | 68        |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |

CONTRACT # 62880



- LEGEND**
- SC SEDIMENT CONTROL
  - [Symbol] SEDIMENT CONTROL SILT FENCE
  - [Symbol] INLET & PIPE PROTECTION
  - [Symbol] SC, DRAINAGE STRUCTURE INLET FILTER
  - [Symbol] EROSION CONTROL BLANKET
  - [Symbol] MULCH METHOD 2
  - [Symbol] SEEDING CLASS 7

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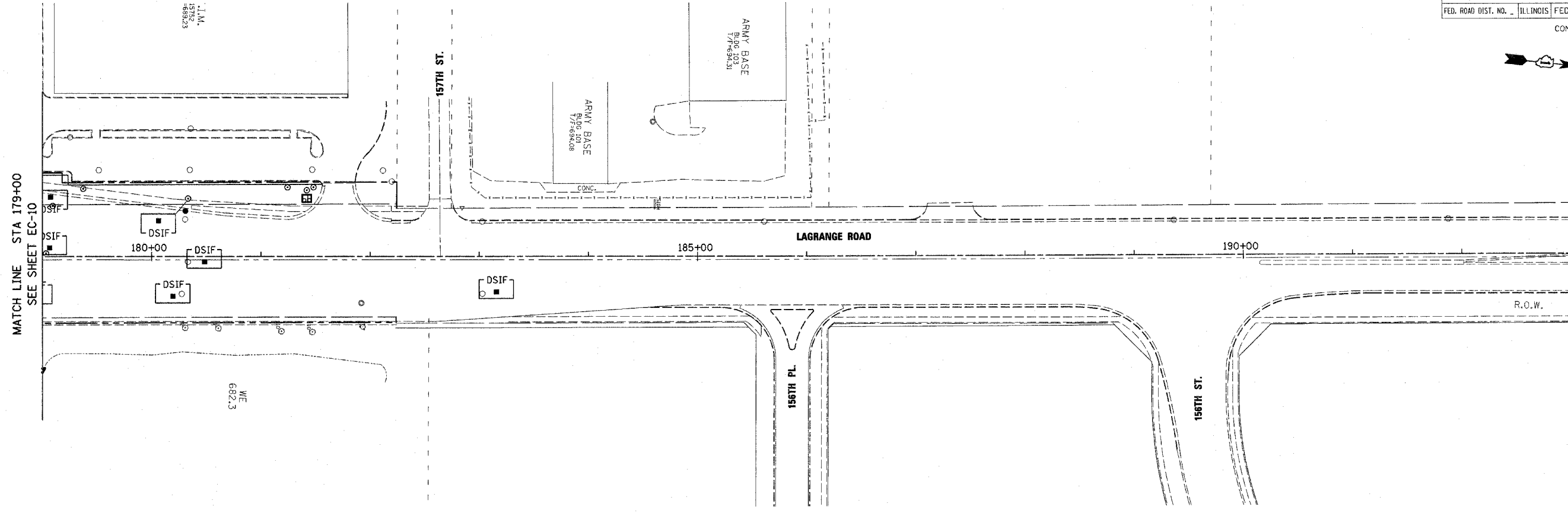
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 45 (LAGRANGE ROAD)  
 TEMP. EROSION CONTROL PLAN - STAGE 2  
 STA 151+00 TO STA 179+00  
 SCALE: 1"=50'  
 DATE: 7-07-06  
 DRAWN BY: BFH  
 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects

FILES  
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| F.A.E. RTE.              | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 351                      | 537 R-1 | COOK  | 245          | 69        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT |              |           |
| CONTRACT # 62880         |         |   |              |           |

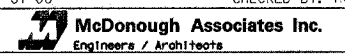


**LEGEND**

- SC SEDIMENT CONTROL
- SEDIMENT CONTROL SILT FENCE
- ⊕ INLET & PIPE PROTECTION
- DSIF SC, DRAINAGE STRUCTURE INLET FILTER
- EROSION CONTROL BLANKET
- SEEDING CLASS 7

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 45 (LAGRANGE ROAD)  
 TEMP. EROSION CONTROL PLAN - STAGE 2  
 STA 179+00 TO STA 183+50  
 SCALE: 1"=50' DRAWN BY: BFH  
 DATE: 7-07-06 CHECKED BY: RCH

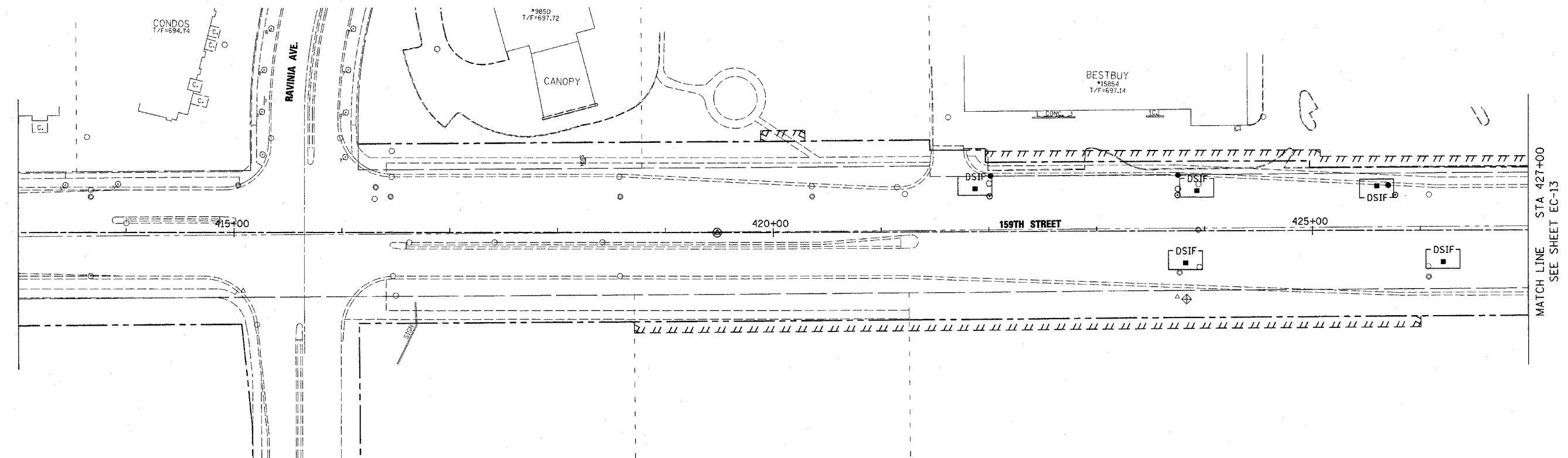


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| F.A.P. RTE.               | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                      | 245          | 70        |
| STA. _____ TO STA. _____  |         | ILLINOIS FED. AID PROJECT |              |           |
| FED. ROAD DIST. NO. _____ |         | CONTRACT # 62880          |              |           |

**LEGEND**

- SC SEDIMENT CONTROL
- SEDIMENT CONTROL
- SILT FENCE
- ⊕ INLET & PIPE PROTECTION
- DSIF SC, DRAINAGE STRUCTURE INLET FILTER
- EROSION CONTROL BLANKET
- SEEDING CLASS 7

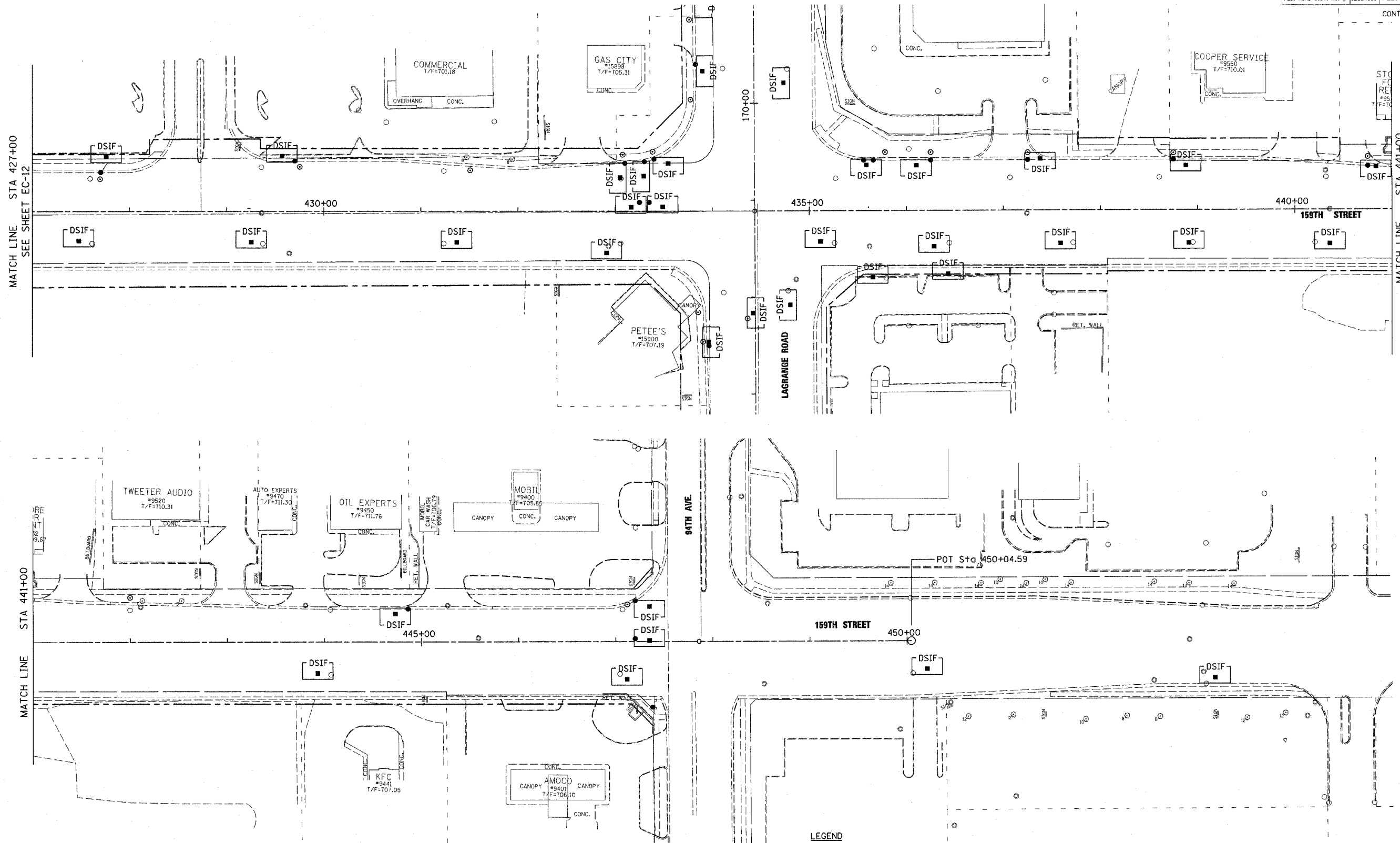


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| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)<br>US RTE 6 (159TH STREET)<br>TEMP. EROSION CONTROL PLAN - STAGE 2<br>STA 408+00 TO STA 427+00<br>SCALE: 1"=50'<br>DATE: 7-07-06 |
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| NAME      | DATE |  |
|           |      | DRAWN BY: BFH<br>CHECKED BY: RCH<br><b>McDonough Associates Inc.</b><br>Engineers / Architects   |
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| F.A.P. RTE.               | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                      | 245          | 71        |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |

CONTRACT # 62880



**LEGEND**

- SC SEDIMENT CONTROL
- SEDIMENT CONTROL
- SILT FENCE
- ⊕ INLET & PIPE PROTECTION
- DSIF SC, DRAINAGE STRUCTURE INLET FILTER
- EROSION CONTROL BLANKET
- SEEDING CLASS 7

| REVISIONS |      |
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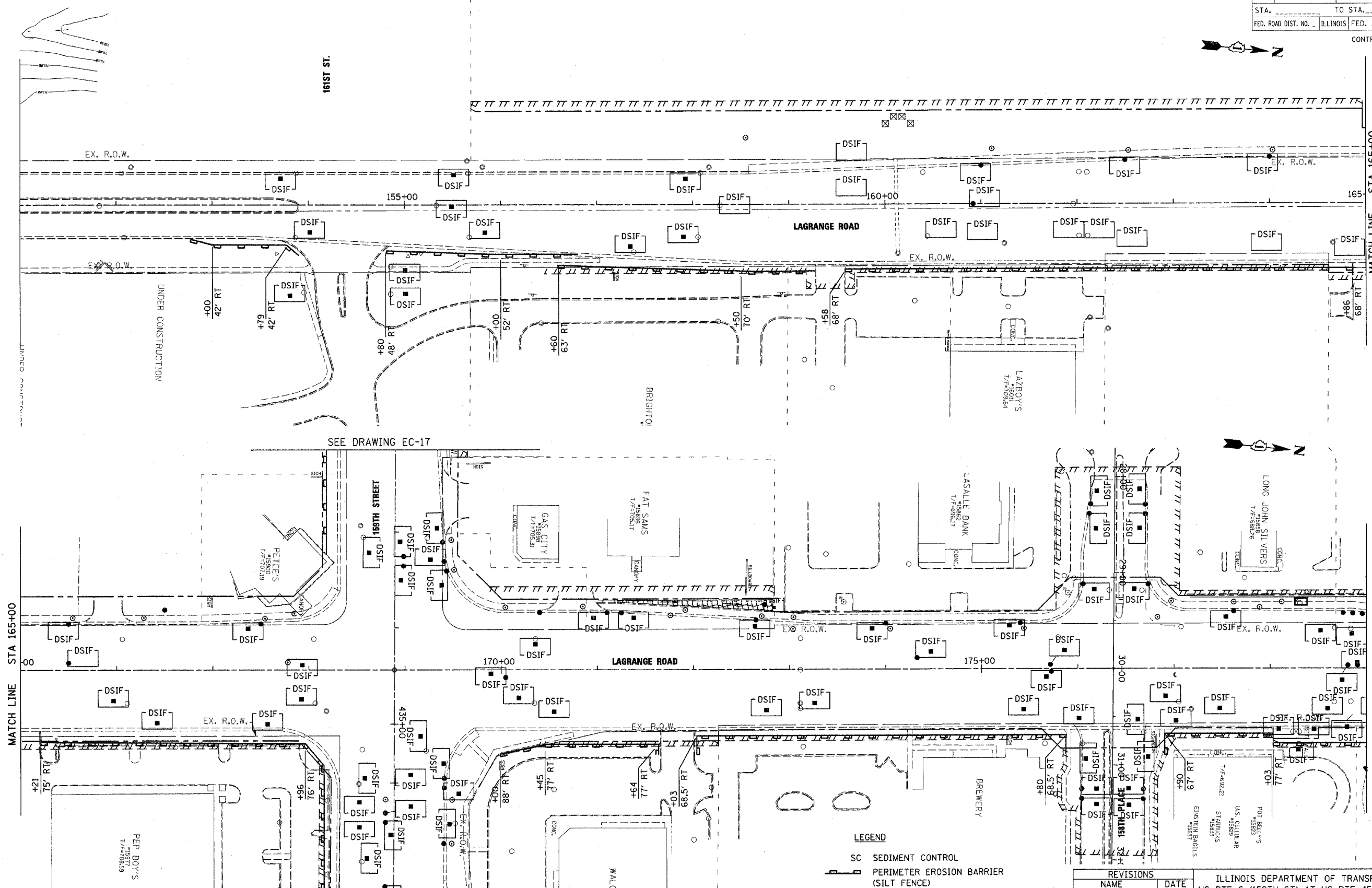
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 6 (159TH STREET)  
 TEMP. EROSION CONTROL PLAN - STAGE 2  
 STA 427+00 TO 94TH AVENUE  
 SCALE: 1"=50'  
 DATE: 7-07-06  
 DRAWN BY: BFH  
 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects

FILES  
 DATES  
 TIMES

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|---------------------------|---------|---------------|--------------|------------------|
| F.A.P. NO.                | SECTION | COUNTY        | TOTAL SHEETS | SHEET NO.        |
| 351                       | 537 R-1 | COOK          | 245          | 72               |
| STA. _____                |         | TO STA. _____ |              |                  |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS      |              | FED. AID PROJECT |

CONTRACT # 62880



SEE DRAWING EC-17

SEE DRAWING EC-17

- LEGEND**
- SC SEDIMENT CONTROL
  - PERIMETER EROSION BARRIER (SILT FENCE)
  - INLET & PIPE PROTECTION
  - DSIF SC, DRAINAGE STRUCTURE INLET FILTER
  - EROSION CONTROL BLANKET
  - MULCH METHOD 2
  - SEEDING CLASS 7

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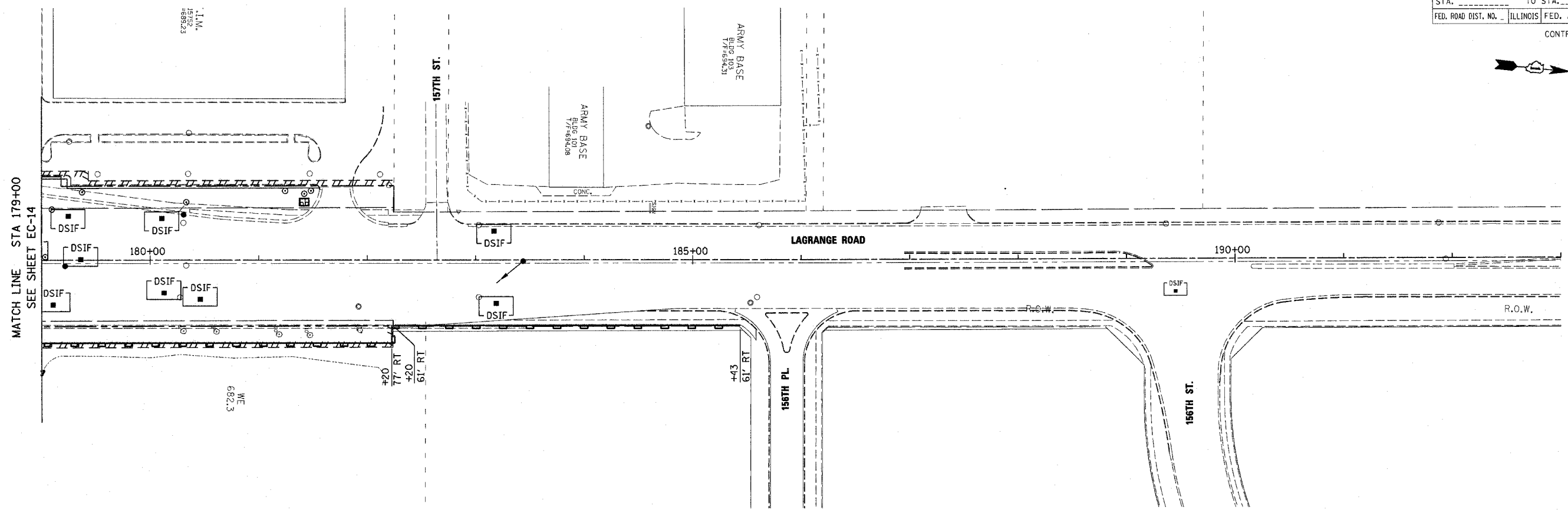
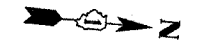
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 45 (LAGRANGE ROAD)  
 TEMP. EROSION CONTROL PLAN - STAGE 3  
 STA 151+00 TO STA 179+00  
 SCALE: 1"=50'  
 DATE: 7-07-06

DRAWN BY: BFH  
 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects

FILES  
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| F.A.E. RTE.              | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 351                      | 537 R-1 | COOK  | 245          | 73        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |           |
| CONTRACT # 62880         |         |   |              |           |



**LEGEND**

- SC SEDIMENT CONTROL
- SEDIMENT CONTROL SILT FENCE
- INLET & PIPE PROTECTION
- SC, DRAINAGE STRUCTURE INLET FILTER
- EROSION CONTROL BLANKET
- SEEDING CLASS 7

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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 45 (LAGRANGE ROAD)  
 TEMP. EROSION CONTROL PLAN - STAGE 3  
 STA 179+00 TO STA 183+50  
 SCALE: 1"=50' DRAWN BY: BFH  
 DATE: 7-07-06 CHECKED BY: RCH

McDonough Associates Inc.  
 Engineers / Architects

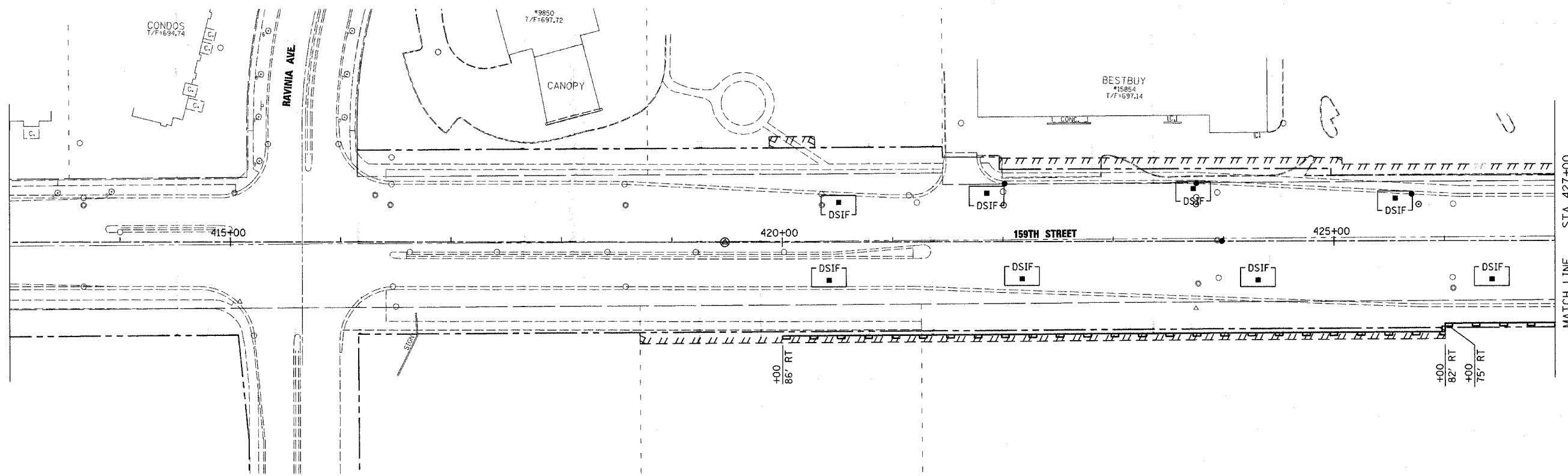
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| F.A.P. RTE.              | SECTION | COUNTY  | TOTAL SHEETS | SHEET NO. |
| 351                      | 537 R-1 | COOK  | 245          | 74        |
| STA. _____ TO STA. _____ |         | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT |              |           |

CONTRACT # 62880

**LEGEND**

- SC SEDIMENT CONTROL
- SEDIMENT CONTROL
- SILT FENCE
- INLET & PIPE PROTECTION
- SC, DRAINAGE STRUCTURE INLET FILTER
- EROSION CONTROL PLANKET
- SEEDING CLASS 7



MATCH LINE STA 427+00  
SEE SHEET EC-17

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**US RTE 6 (159TH STREET)**  
TEMP. EROSION CONTROL PLAN - STAGE 3  
STA 408+00 TO STA 427+00  
SCALE: 1"=50'  
DATE: 7-07-06  
DRAWN BY: BFH  
CHECKED BY: RCH

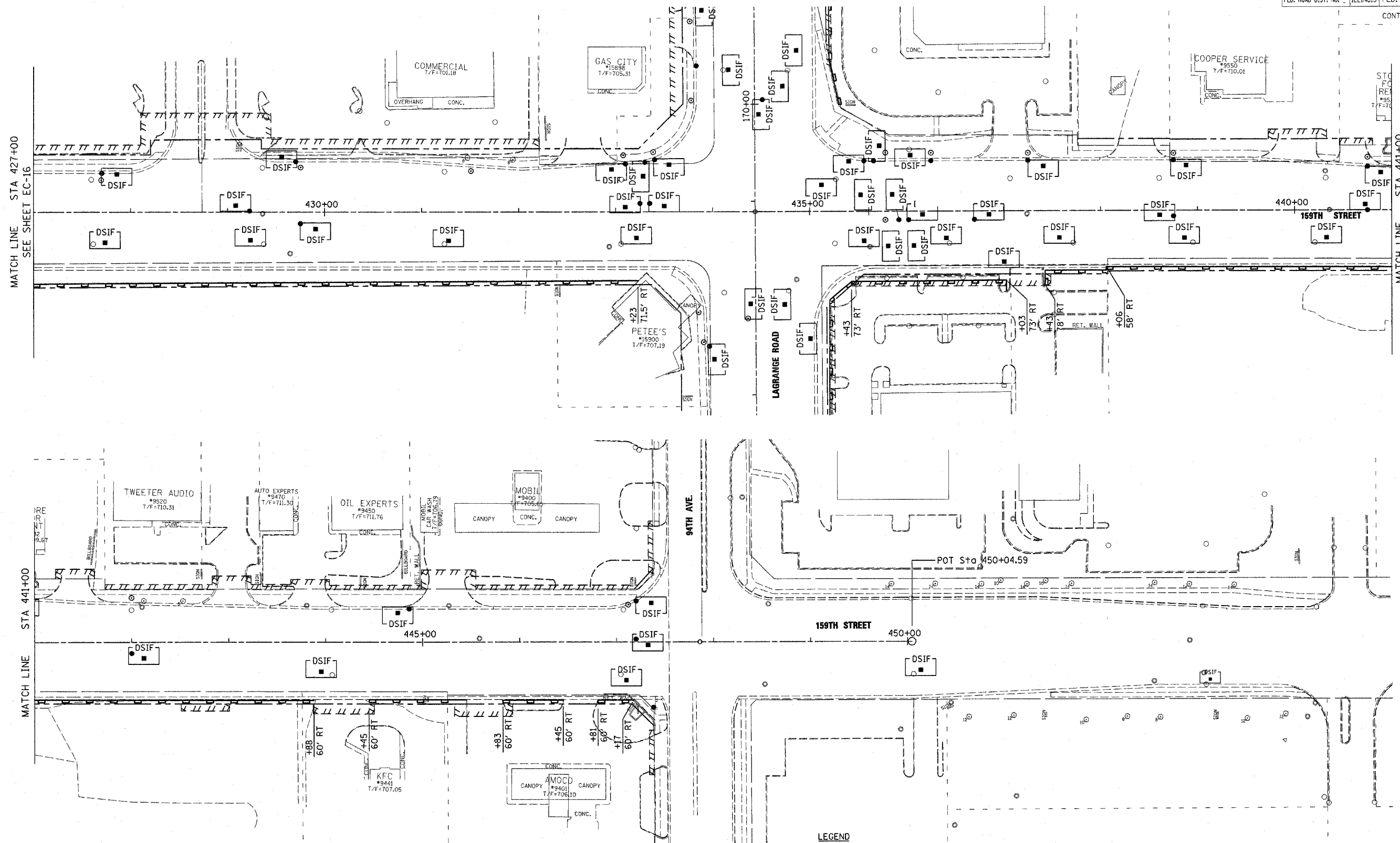
**McDonough Associates Inc.**  
Engineers / Architects

FILES  
DATES  
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|                           |         |                           |              |           |
|---------------------------|---------|---------------------------|--------------|-----------|
| F.A.P. NO.                | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                      | 245          | 75        |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |

CONTRACT # 62880



**LEGEND**

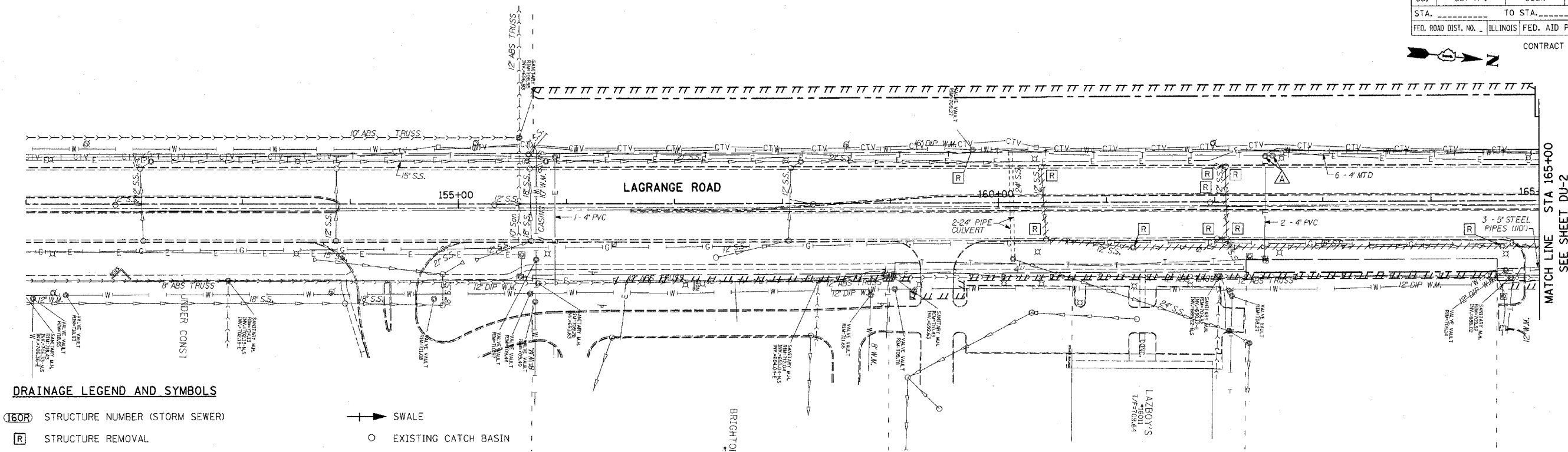
- SC SEDIMENT CONTROL
- SEDIMENT CONTROL
- SILT FENCE
- INLET & PIPE PROTECTION
- DSIF SC, DRAINAGE STRUCTURE
- INLET FILTER
- EROSION CONTROL BLANKET
- SEEDING CLASS 7

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 6 (159TH STREET)  
 TEMP. EROSION CONTROL PLAN - STAGE 3  
 STA 427+00 TO 94TH AVENUE  
 SCALE: 1"=50'  
 DATE: 7-07-06  
 DRAWN BY: BFH  
 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects

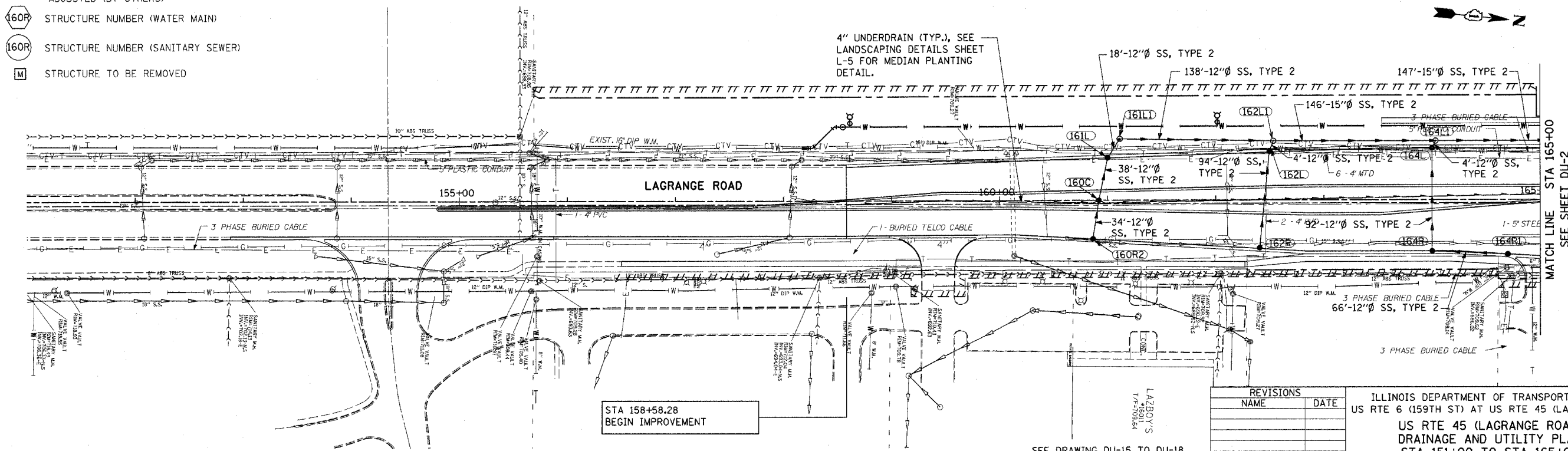
FILES  
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 STIMES



**DRAINAGE LEGEND AND SYMBOLS**

- |        |  |      |                                     |
|--------|--|------|-------------------------------------|
| (160R) | STRUCTURE NUMBER (STORM SEWER)                                   | →    | SWALE                               |
| (R)    | STRUCTURE REMOVAL  | ○    | EXISTING CATCH BASIN                |
| (ADJ)  | STRUCTURE TO BE ADJUSTED   | ●    | PROPOSED CATCH BASIN                |
| (REC)  | STRUCTURE TO BE RECONSTRUCTED                                    | ▷    | EXISTING CULVERT FLARED END SECTION |
| (F)    | STRUCTURE TO BE FILLED   | ▷    | PROPOSED CULVERT FLARED END SECTION |
| (RP)   | REMOVE EXISTING DRAINAGE STRUCTURE AND PLUG EXISTING STORM SEWER | ---- | EXISTING UTILITY TO BE REMOVED      |
| (A)    | VALVE VAULT TO BE ADJUSTED                                       | XXXX | EXISTING UTILITY TO BE ABANDONED    |
| (160R) | STRUCTURE NUMBER (WATER MAIN)                                    |      |                                     |
| (160R) | STRUCTURE NUMBER (SANITARY SEWER)                                |      |                                     |
| (M)    | STRUCTURE TO BE REMOVED  |      |                                     |

**EXISTING CONDITIONS**



STA 158+58.28  
BEGIN IMPROVEMENT

**PROPOSED IMPROVEMENTS**

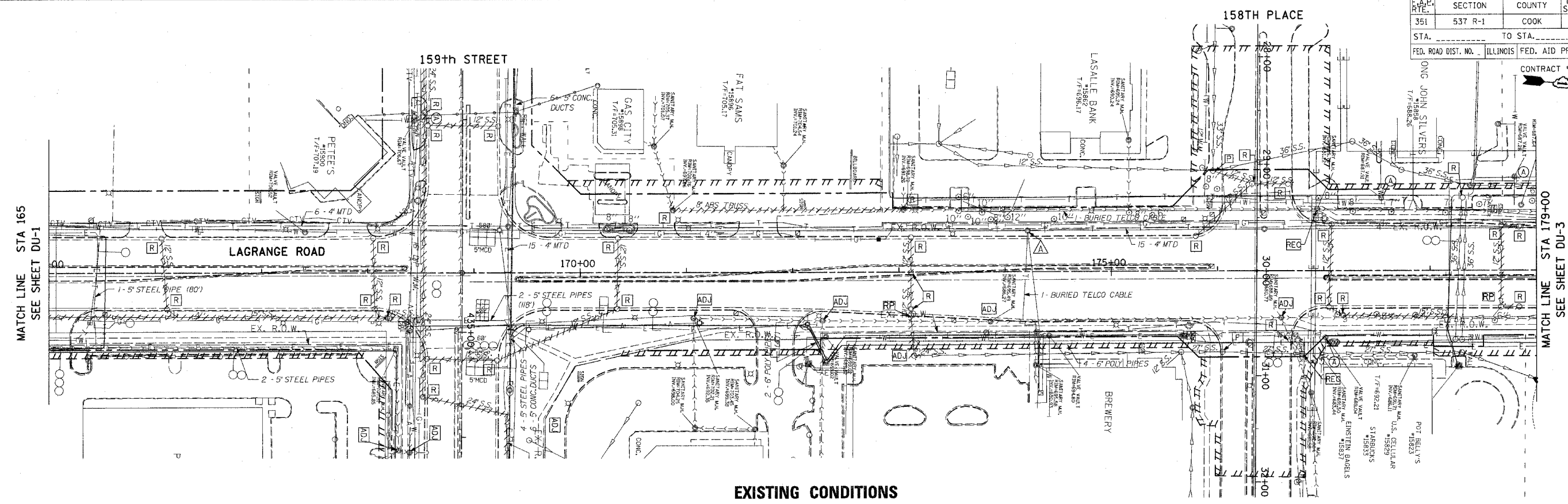
SEE DRAWING DU-15 TO DU-18  
FOR WATER MAIN RELATED ITEMS

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
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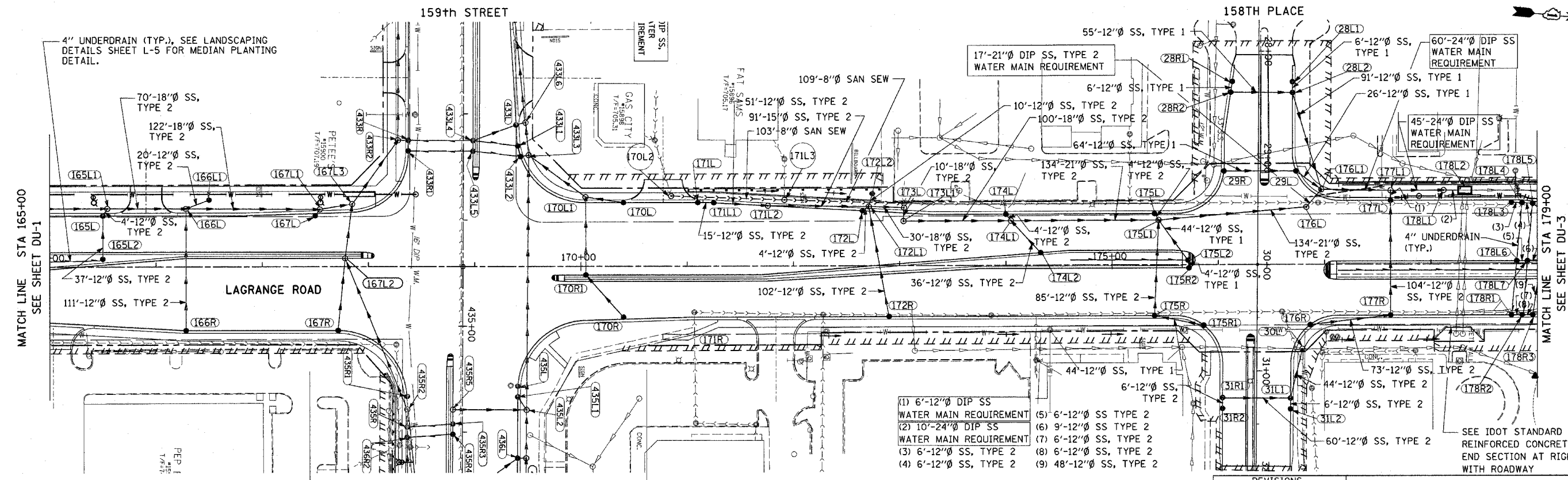
ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**US RTE 45 (LAGRANGE ROAD)  
DRAINAGE AND UTILITY PLAN  
STA 151+00 TO STA 165+00**  
SCALE: 1"=50' DRAWN BY: GIU  
DATE: 7-07-06 CHECKED BY: RCH

|                     |          |                  |              |           |
|---------------------|----------|------------------|--------------|-----------|
| F.A.D. DIST. NO.    | SECTION  | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 351                 | 537 R-1  | COOK             | 245          | 77        |
| STA.                | TO STA.  |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |              |           |

CONTRACT # 62880



**EXISTING CONDITIONS**



**PROPOSED IMPROVEMENTS**

- (1) 6'-12" DIP SS WATER MAIN REQUIREMENT
- (2) 10'-24" DIP SS WATER MAIN REQUIREMENT
- (3) 6'-12" SS, TYPE 2
- (4) 6'-12" SS, TYPE 2
- (5) 6'-12" SS TYPE 2
- (6) 9'-12" SS TYPE 2
- (7) 6'-12" SS, TYPE 2
- (8) 6'-12" SS, TYPE 2
- (9) 48'-12" SS, TYPE 2

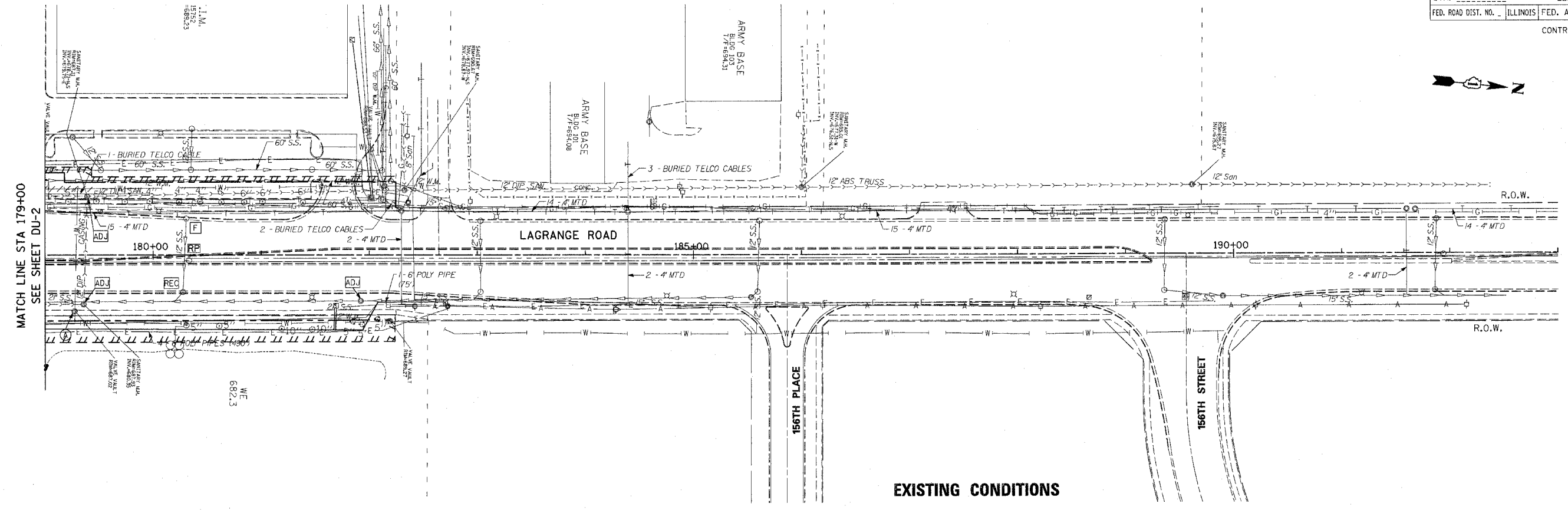
- NOTE:**
- SEE DRAWING DU-19 FOR JUNCTION CHAMBER 178L2 DETAILS AND DU-21 FOR RESTRICTOR MANHOLE DETAILS.
  - SEE DRAWING DU-15 TO DU-18 FOR WATER MAIN RELATED ITEMS.

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
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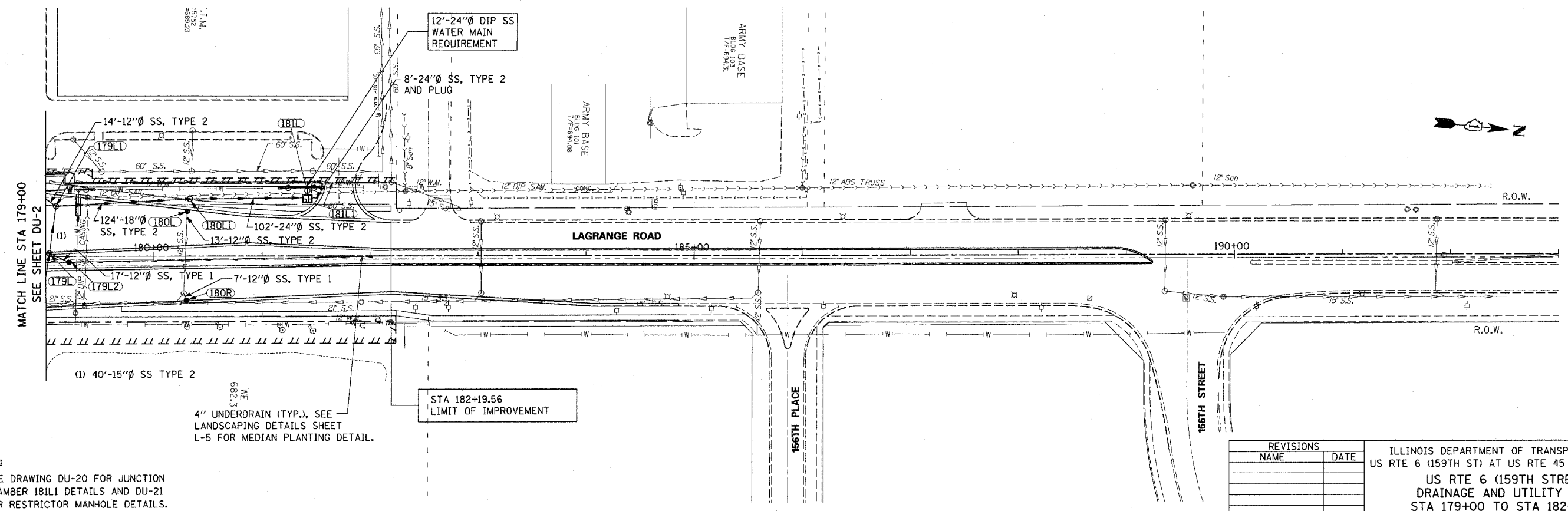
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**US RTE 45 (LAGRANGE ROAD)  
 DRAINAGE AND UTILITY PLAN  
 STA 165+00 TO STA 179+00**  
 SCALE: 1"=50'  
 DATE: 7-07-06  
 DRAWN BY: OIU  
 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects

FILES  
 DATES  
 TIMES



**EXISTING CONDITIONS**



**PROPOSED IMPROVEMENTS**

- NOTE:**
- SEE DRAWING DU-20 FOR JUNCTION CHAMBER 181L1 DETAILS AND DU-21 FOR RESTRICTOR MANHOLE DETAILS.
  - SEE DRAWING DU-15 TO DU-18 FOR WATER MAIN RELATED ITEMS.

| REVISIONS |      |
|-----------|------|
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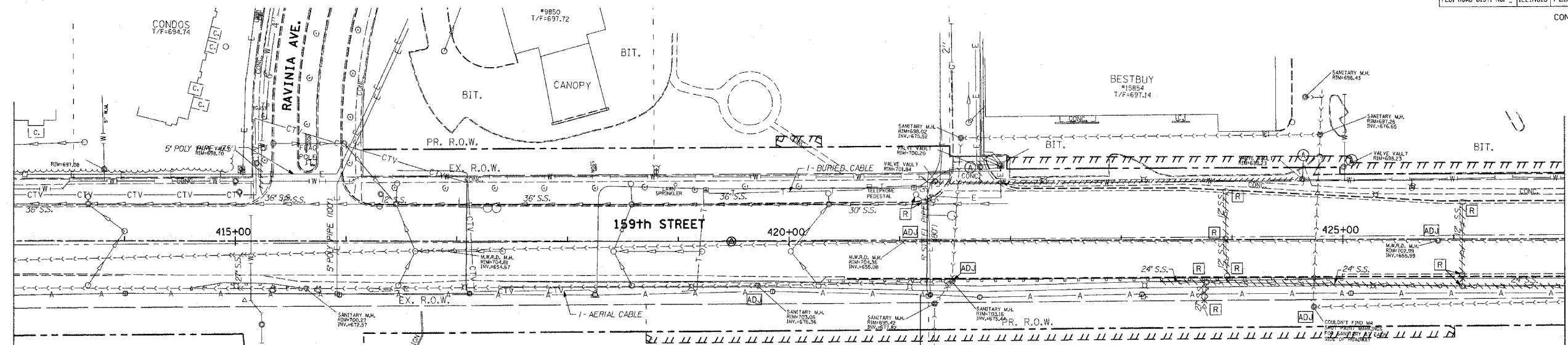
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**US RTE 6 (159TH STREET)  
 DRAINAGE AND UTILITY PLAN  
 STA 179+00 TO STA 182+19.56**  
 SCALE: 1"=50' DRAWN BY: OIU  
 DATE: 7-07-06 CHECKED BY: RCH

**McDonough Associates Inc.**  
 Engineers / Architects

FILES  
 DATES  
 TIMES

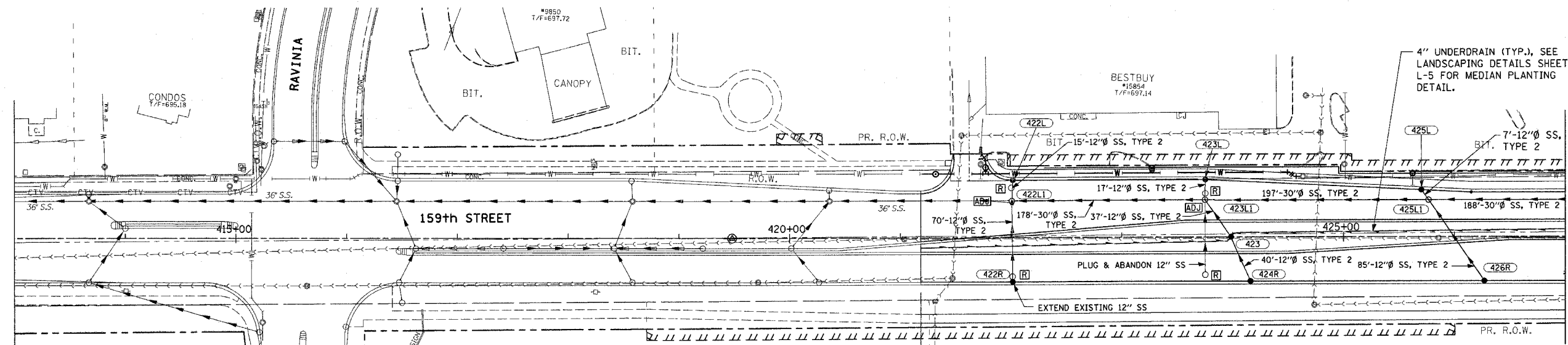
|                           |         |                           |              |           |
|---------------------------|---------|---------------------------|--------------|-----------|
| F.A.R. RTE.               | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                      | 245          | 79        |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |

CONTRACT # 62880



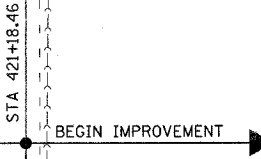
TOPOGRAPHY SHOWN WEST OF STA. 412+18.46 REPRESENTS EXISTING CONDITIONS IN FEBRUARY, 2006

**EXISTING CONDITIONS**



ROADWAY GEOMETRICS SHOWN WEST OF STA. 412+18.46 REPRESENTS PROPOSED IMPROVEMENT BY OTHERS APPROXIMATELY AUTUMN 2006.

**PROPOSED IMPROVEMENTS**



SEE DRAWING DU-15 TO DU-18 FOR WATER MAIN RELATED ITEMS

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 US RTE 6 (159TH STREET)  
 DRAINAGE AND UTILITY PLAN  
 STA 421+18.46 TO STA 427+00  
 SCALE: 1"=50'  
 DATE: 7-07-06  
 DRAWN BY: OIU  
 CHECKED BY: RCH



FILES  
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 BTIMES



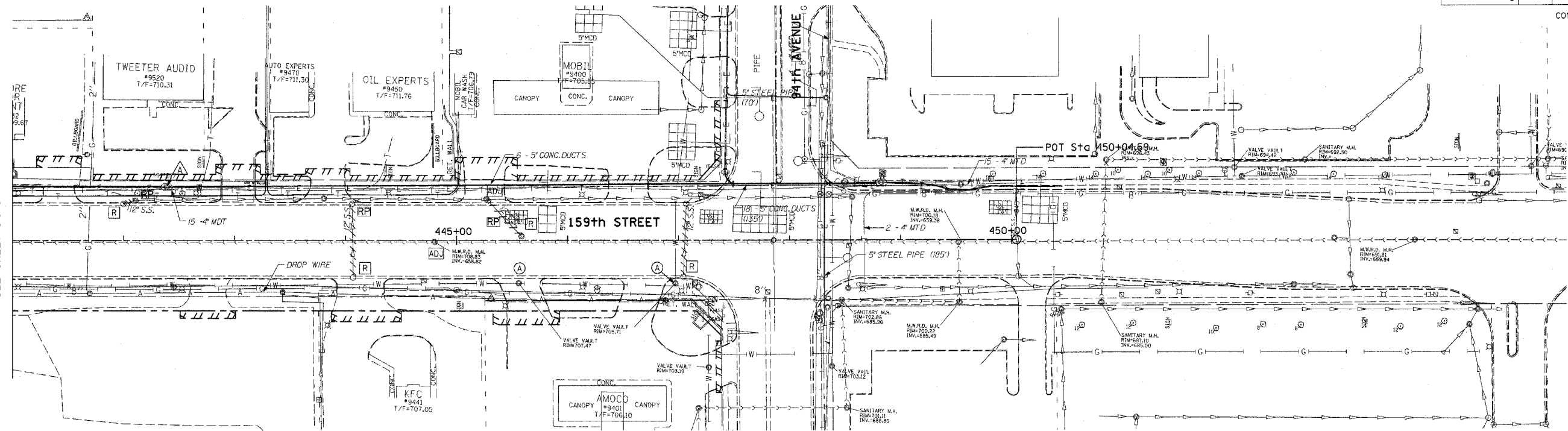




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|---------------------------|---------|---------------------------|--------------|-----------|
| E.A.P. RTE.               | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                      | 245          | 81        |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |

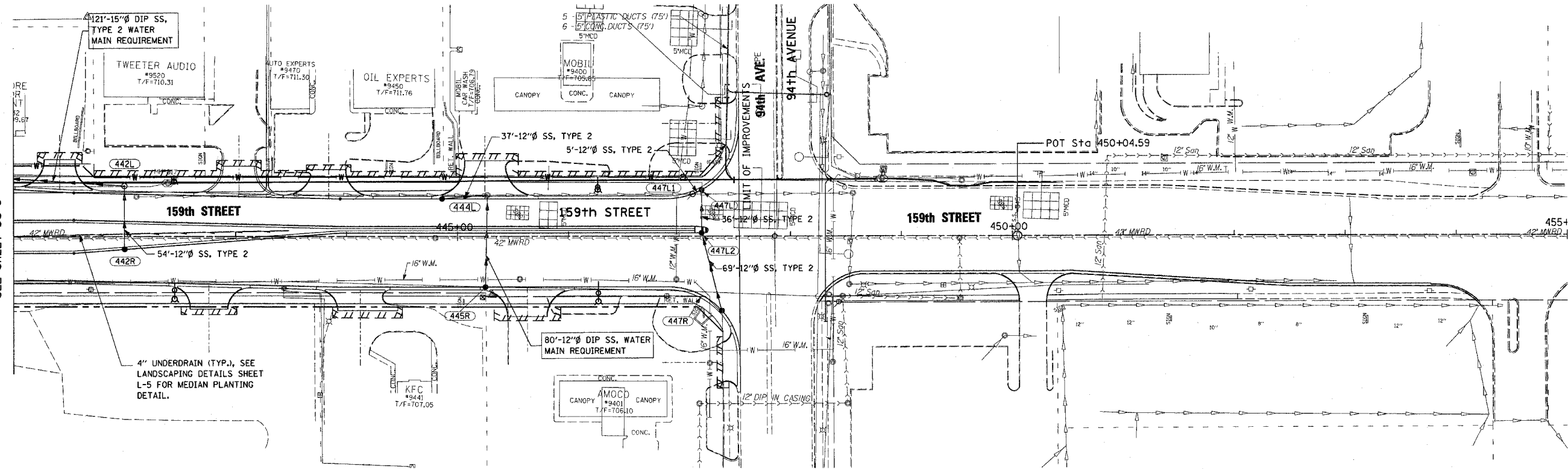
CONTRACT # 62880

MATCH LINE STA 441+00  
SEE SHEET DU-5



**EXISTING CONDITIONS**

MATCH LINE STA 441+00  
SEE SHEET DU-5



**PROPOSED IMPROVEMENTS**

NOTE: SEE DU-15 TO DU-18 FOR WATER MAIN RELATED ITEMS.

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
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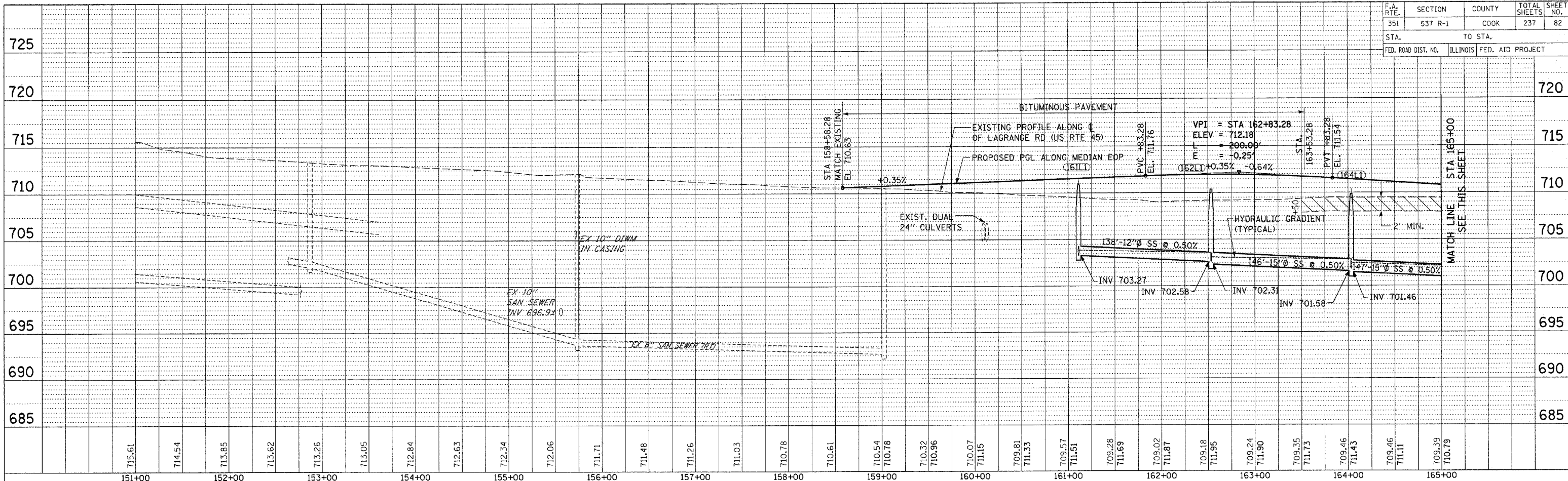
ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
US RTE 6 (159TH STREET)  
DRAINAGE AND UTILITY PLAN  
STA 441+00 TO 94TH AVE.

SCALE: 1"=50'  
DATE: 7-07-06  
DRAWN BY: OIU  
CHECKED BY: RCH

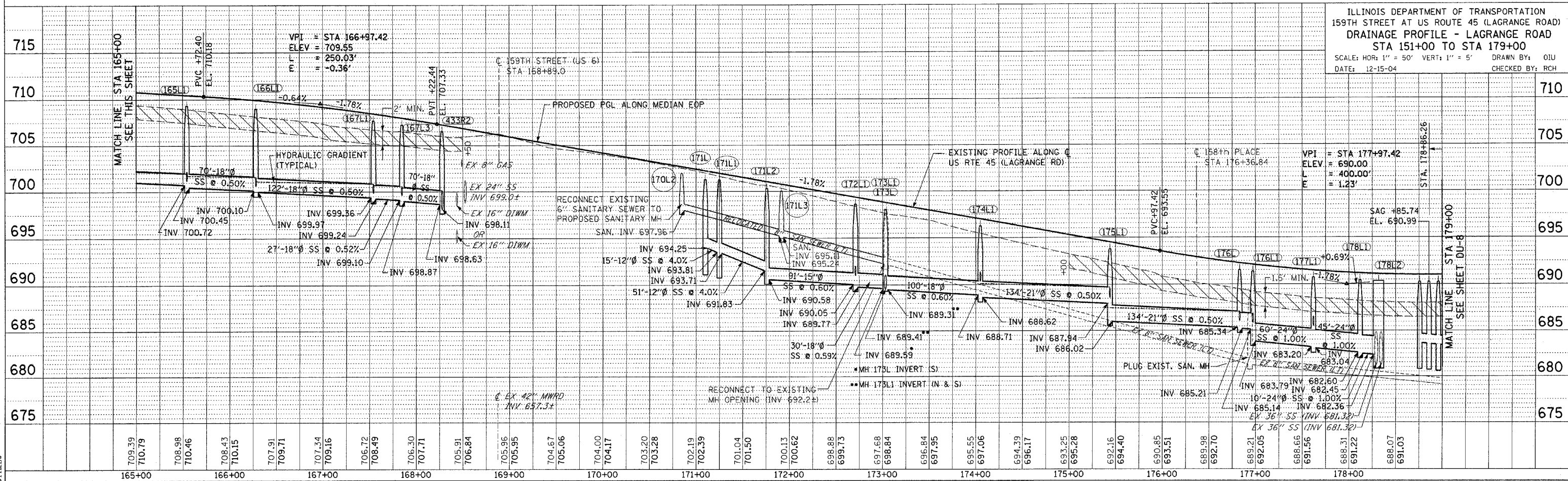
**McDonough Associates Inc.**  
Engineers / Architects

FILES  
DATES  
TIMES

|                     |         |          |                  |           |
|---------------------|---------|----------|------------------|-----------|
| F.A. RTE            | SECTION | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| 351                 | 537 R-1 | COOK     | 237              | 82        |
| STA.                |         | TO STA.  |                  |           |
| FED. ROAD DIST. NO. |         | ILLINOIS | FED. AID PROJECT |           |



PLAN  
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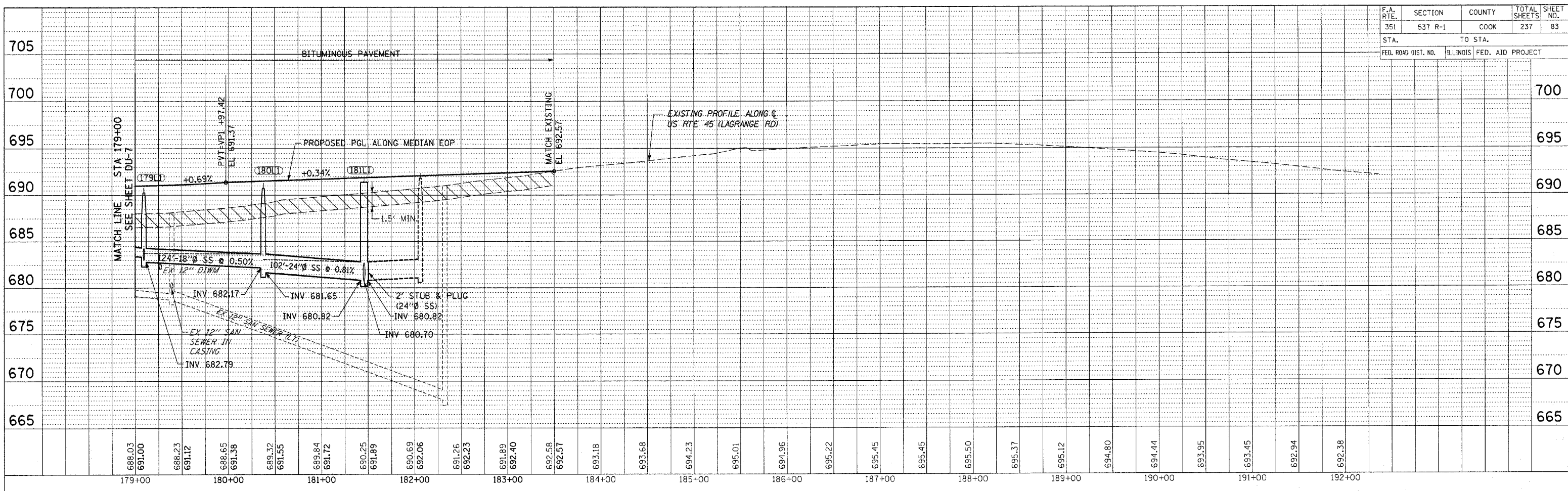


ILLINOIS DEPARTMENT OF TRANSPORTATION  
 159TH STREET AT US ROUTE 45 (LAGRANGE ROAD)  
 DRAINAGE PROFILE - LAGRANGE ROAD  
 STA 151+00 TO STA 179+00  
 SCALE: HOR: 1" = 50' VERT: 1" = 5'  
 DATE: 12-15-04  
 DRAWN BY: OIU  
 CHECKED BY: RCH

PROFILE  
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 DATE

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|---------------------|---------|---------------------------|--------------|-----------|
| F.A. RTE.           | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                 | 537 R-1 | COOK                      | 237          | 83        |
| STA.                |         | TO STA.                   |              |           |
| FED. ROAD DIST. NO. |         | ILLINOIS FED. AID PROJECT |              |           |



|      |                |    |      |
|------|----------------|----|------|
| PLAN | SURVEYED       | BY | DATE |
|      | PLOTTED        |    |      |
|      | CHECKED        |    |      |
|      | BY             |    |      |
|      | NOTE BOOK      |    |      |
|      | NO.            |    |      |
|      | PAID FILE NAME |    |      |

|         |                    |    |      |
|---------|--------------------|----|------|
| PROFILE | SURVEYED           | BY | DATE |
|         | PLOTTED            |    |      |
|         | CHECKED            |    |      |
|         | BY                 |    |      |
|         | NOTE BOOK          |    |      |
|         | NO.                |    |      |
|         | STRUCTURE NOTATION |    |      |
|         | ORFD               |    |      |

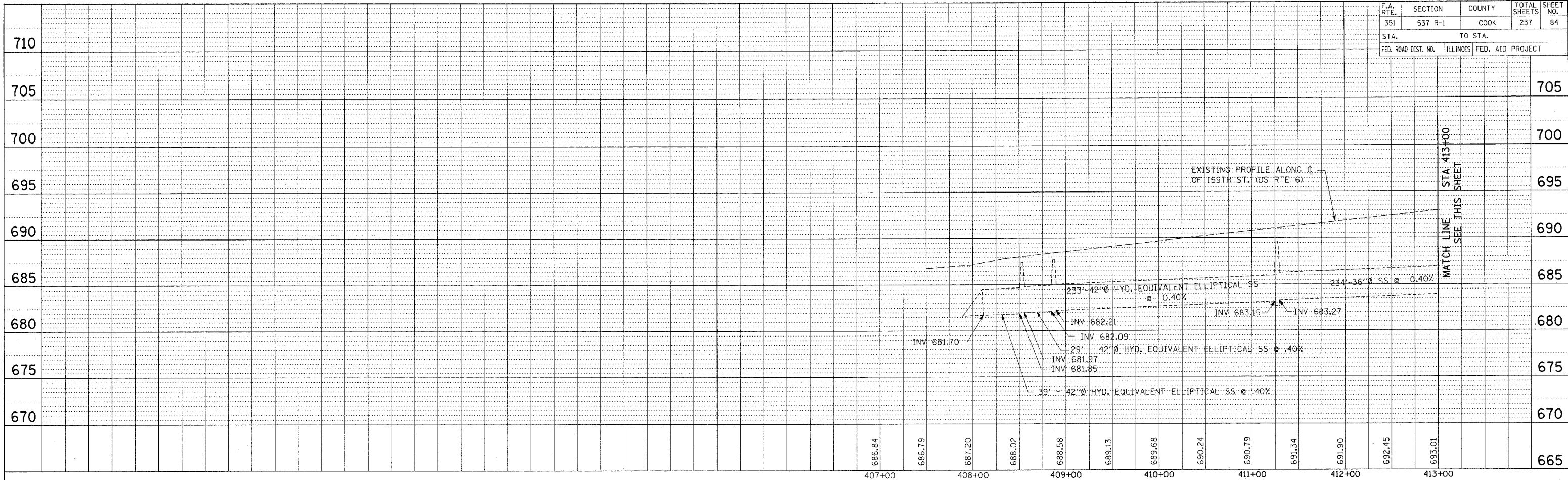
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 159TH STREET AT US ROUTE 45 (LAGRANGE ROAD)  
 DRAINAGE PROFILE - LAGRANGE ROAD  
 STA 179+00 TO STA 193+00  
 SCALE: HOR: 1" = 50' VERT: 1" = 5'  
 DATE: 12-15-04 DRAWN BY: OIU  
 CHECKED BY: RCH

SFILES  
 3DAYS  
 5TIMES

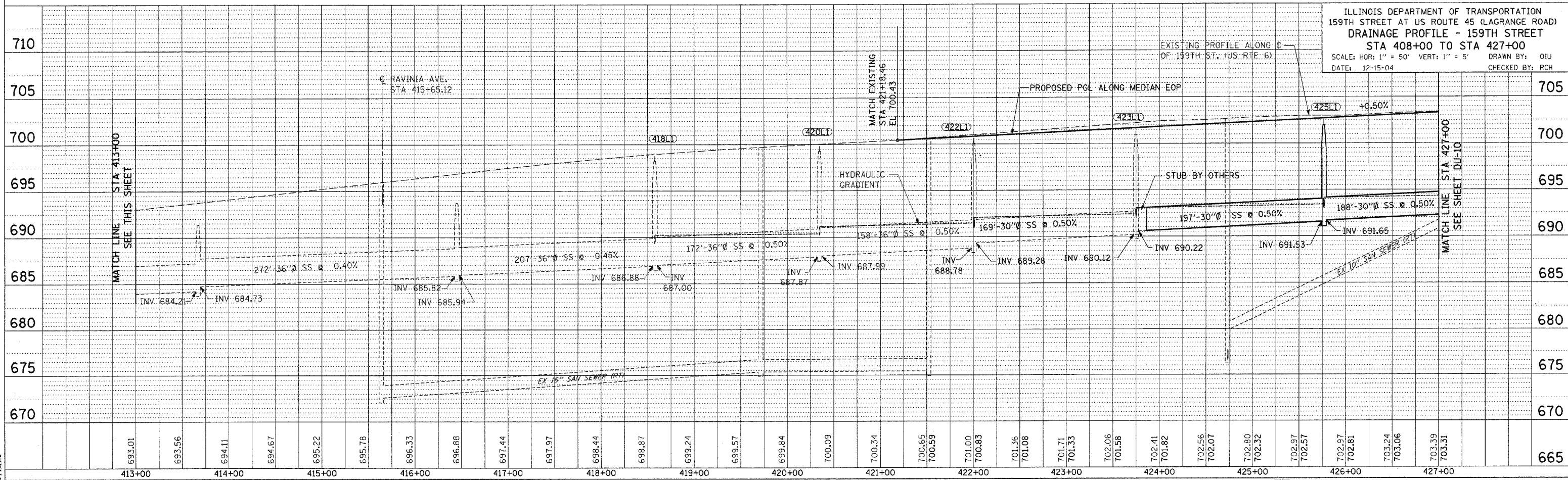


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|---------------------|---------|----------|------------------|-----------|
| F.A. RTE.           | SECTION | COUNTY   | TOTAL SHEETS     | SHEET NO. |
| 351                 | 537 R-1 | COOK     | 237              | 84        |
| STA.                |         | TO STA.  |                  |           |
| FED. ROAD DIST. NO. |         | ILLINOIS | FED. AID PROJECT |           |

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|-----------|----------|----|------|
| PLAN      | SURVEYED | BY | DATE |
| FILED     | PLANNED  |    |      |
| NOTE BOOK | BY       |    |      |
| NO.       | NO.      |    |      |

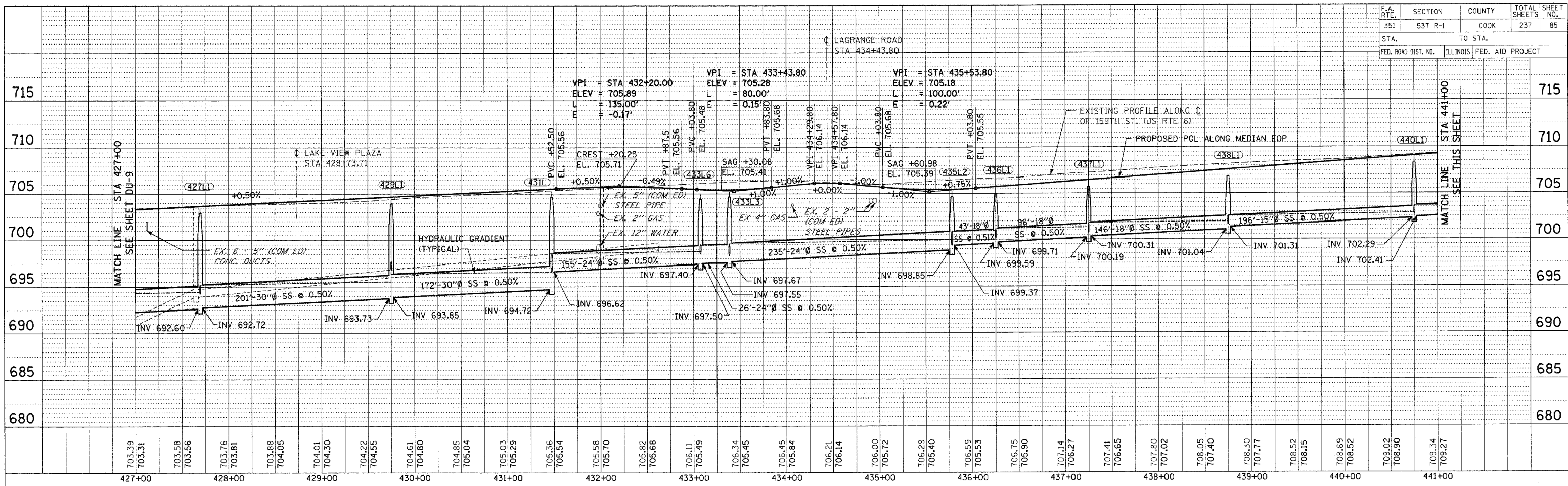


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| PROFILE   | SURVEYED | BY | DATE |
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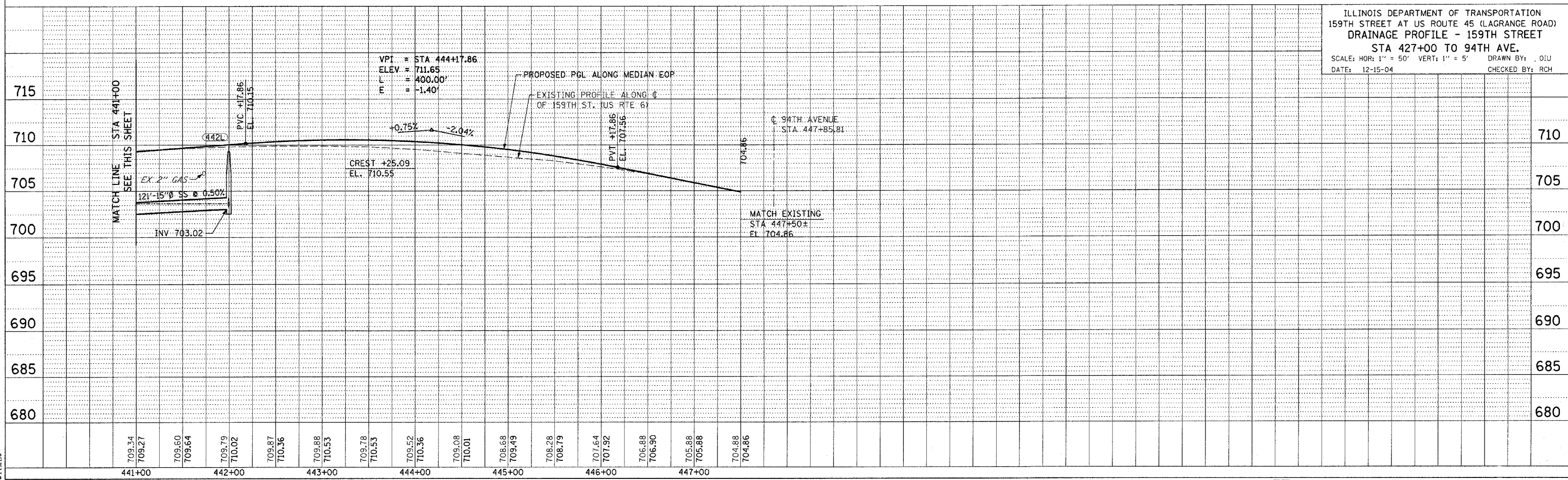


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PLAN SURVEYED BY DATE  
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 CHECKED BY DATE  
 NOTE BOOK NO. OF WAY CHECKED  
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PROFILE SURVEYED BY DATE  
 PLOTTED BY DATE  
 CHECKED BY DATE  
 NOTE BOOK NO. OF WAY CHECKED  
 NO. OF STAKES SET FILE NAME



ILLINOIS DEPARTMENT OF TRANSPORTATION  
 159TH STREET AT US ROUTE 45 (LAGRANGE ROAD)  
 DRAINAGE PROFILE - 159TH STREET  
 STA 427+00 TO 94TH AVE.  
 SCALE: HOR: 1" = 50' VERT: 1" = 5'  
 DATE: 12-15-04 DRAWN BY: OIU CHECKED BY: RCH

|                           |         |               |                  |              |
|---------------------------|---------|---------------|------------------|--------------|
| E.A.E.<br>RTE.            | SECTION | COUNTY        | TOTAL<br>SHEETS  | SHEET<br>NO. |
| 351                       | 537 R-1 | COOK          | 245              | 86           |
| STA. _____                |         | TO STA. _____ |                  |              |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS      | FED. AID PROJECT |              |
| CONTRACT # 62880          |         |               |                  |              |

DRAWING NO. DU-1  
STA 158+58.28 TO STA 165+00

- |   |   |
|---|---|
| <p>160R2 STA 160+86.32, 36.1' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 711.00<br/>INV EL 706.00</p> <p>160C STA 160+91.8, CENTERLINE<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 8 GRATE<br/>RIM EL 711.60<br/>INV EL 705.04 (12" E,W)</p> <p>161L STA 161+00, 39.7' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 710.94<br/>INV EL 704.08 (12" E,NW)</p> <p>161L1 STA 161+11.2, 57.1' LT<br/>MANHOLE, TYPE A, 4' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 711.20<br/>INV EL 703.27 (12" N)<br/>INV EL 703.90 (12" SE)</p> <p>162R STA 162+40.43, 44.7' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 710.48<br/>INV EL 704.64</p> <p>162L STA 162+49.62, 45.2' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 710.44<br/>INV EL 702.76</p> <p>162L1 STA 162+53.2, 54.8' LT<br/>MANHOLE, TYPE A, 4' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 710.75<br/>INV EL 702.58 (12" S, SE)<br/>INV EL 702.31 (15" N)</p> | <p>164R STA 164+00, 48.0' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 709.92<br/>INV EL 703.85 (12" W)<br/>INV EL 703.95 (12" N)</p> <p>164L STA 164+00, 48.0' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 709.92<br/>INV EL 702.01 (12" E)<br/>INV EL 701.91 (12" W)</p> <p>164L1 STA 164+03.3, 54.7' LT<br/>MANHOLE, TYPE A, 4' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 710.22<br/>INV EL 701.58 (15" S)<br/>INV EL 701.83 (12" SE)<br/>INV EL 701.46 (15" N)</p> <p>164R1 STA 164+70, 51.0' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 709.60<br/>INV EL 704.61</p> |
|---|---|

SETLER  
 \$DATES  
 \$TIMES

| REVISIONS   |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD) |  |
|---|------|---|--|
| NAME  | DATE |   |  |
|   |      | US RTE 45 (LAGRANGE ROAD)<br>DRAINAGE NOTES   |  |
|   |      | SCALE: N/A  |  |
|   |      | DATE: 7-07-06   |  |
|   |      | DRAWN BY: JTF   |  |
|   |      | CHECKED BY: OIU   |  |
|  <b>McDonough Associates Inc.</b><br><small>Engineers / Architects</small> |      |   |  |



|                          |        |   |           |
|--------------------------|--------|---|-----------|
| SECTION                  | COUNTY | TOTAL SHEETS  | SHEET NO. |
| 351                      | COOK   | 245   | 87        |
| STA. _____ TO STA. _____ |        | FED. ROAD DIST. NO. _____ ILLINOIS FED. AID PROJECT |           |

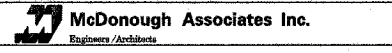
CONTRACT # 62880

DRAWING NO. DU-2  
STA 165+00 TO STA 179+00

|  |  |  |  |   |   |
|--|--|--|--|---|---|
| <p>165L2 STA 165+50, 7.5' LT<br/>CATCH BASIN, TYPE C, 2' DIA.<br/>W/ TYPE 8 GRATE<br/>RIM EL 709.97<br/>INV EL 706.50</p>  | <p>167L2 STA 167+78, 8.0' LT<br/>MANHOLE, TYPE A, 5' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 707.79<br/>INV EL 700.66 (12" E)<br/>INV EL 699.89 (15" W)<br/>INV EL 700.10 (15" NE)</p>           | <p>173L1 STA 173+04.0, 42.0' LT<br/>MANHOLE, TYPE A, 4' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 698.25<br/>INV EL 689.41 (18"W)<br/>INV EL 689.31 (18" N)</p>  | <p>174L1 STA 174+04.8, 42.0' LT<br/>MANHOLE, TYPE A, 4' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 696.41<br/>INV EL 690.37 (12" SW &amp; NE)<br/>INV EL 688.71 (18" S)<br/>INV EL 688.62 (21" N)</p> | <p>176R STA 176+86.4, 56.8' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 691.13<br/>INV EL 686.13</p>  | <p>178R1 STA 178+75.7, 48.0' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 690.31<br/>INV EL 685.31</p>   |
| <p>165L STA 165+50, 48.0' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 709.39<br/>INV EL 701.15 (12" E)<br/>INV EL 701.05 (12" NW)</p>  | <p>167L3 STA 167+84.8, 59.0' LT<br/>MANHOLE, TYPE A, 4' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 707.50<br/>INV EL 699.10 (18" S)<br/>INV EL 698.87 (18" NW)<br/>INV EL 699.60 (12" E)</p>        | <p>171L2 STA 171+76, 56.8' LT<br/>MANHOLE, TYPE A, 4' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 700.14<br/>INV EL 691.83 (12" S)<br/>INV EL 690.58 (15" N)</p>   | <p>174L2 STA 174+32.8, 12.0' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 23 FRAME &amp; GRATE<br/>RIM EL 696.45<br/>INV EL 691.45</p>  | <p>176L STA 176+82.8, 53.8' RT<br/>MANHOLE, TYPE A, 5' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 691.43<br/>INV EL 685.34 (21" S)<br/>INV EL 685.21 (21" NW)</p>  | <p>178L6 STA 178+80.7, 3.0' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 23 FRAME &amp; GRATE<br/>RIM EL 690.83<br/>INV EL 684.41</p>  |
| <p>165L1 STA 165+54.3, 54.7' LT<br/>MANHOLE, TYPE A, 4' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 709.68<br/>INV EL 700.72 (15" S)<br/>INV EL 700.97 (12" SE)<br/>INV EL 700.45 (18" N)</p>                          | <p>170R1 STA 170+04.6, 8.0' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 23 FRAME &amp; GRATE<br/>&amp; WITH FLAT SLAB TOP<br/>RIM EL 703.76<br/>INV EL 699.07 (15" W)<br/>INV EL 699.32 (12" NE)</p> | <p>171L3 STA 171+91.5, 62.4' LT<br/>SANITARY MH, TYPE A, 4' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 700.33<br/>INV EL 695.24 (8" S)<br/>INV EL 695.11 (8" N)</p>   | <p>175L STA 175+40, 48.0' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 693.90<br/>INV EL 688.62 (12" NE)</p>  | <p>176L1 STA 176+96.9, 70.7' LT<br/>MANHOLE, TYPE A, 5' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 691.12<br/>INV EL 685.14 (21" SE)<br/>INV EL 683.79 (24" N)<br/>INV EL 685.52 (12" W)<br/>INV EL 687.00 (12" SW)</p>  | <p>178L4 STA 178+85.7, 57.4' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 690.08<br/>INV EL 684.94 (12" N, S)</p>  |
| <p>166R STA 166+28.3, 60.0' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 708.73<br/>INV EL 702.82</p>   | <p>170L1 STA 170+04.3, 65.4' LT<br/>MANHOLE, TYPE A, 4' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 703.57<br/>INV EL 698.62 (15" SW)<br/>INV EL 698.97 (12" N)<br/>INV EL 698.72 (15" E)</p>        | <p>172L STA 172+65, 51.7' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>&amp; WITH FLAT SLAB TOP<br/>RIM EL 698.69<br/>INV EL 695.19</p>  | <p>175R STA 175+39.95, 48.0' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>&amp; WITH FLAT SLAB TOP<br/>RIM EL 693.90<br/>INV EL 689.36</p>                                     | <p>177R STA 177+62, 48.0' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 690.79<br/>INV EL 685.40 (12" W,S)</p>  | <p>178R2 STA 178+85.7, 48.0' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 690.31<br/>INV EL 685.19 (12" N, S)</p>  |
| <p>166L STA 166+28.3, 54.5' LT<br/>MANHOLE, TYPE A, 4' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 709.30<br/>INV EL 700.10 (18" S)<br/>INV EL 699.97 (18" N)<br/>INV EL 700.60 (12" E)<br/>INV EL 700.60 (12" NW)</p> | <p>170L STA 170+40, 60.0' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>&amp; WITH FLAT SLAB TOP<br/>RIM EL 702.48<br/>INV EL 699.48</p>                                      | <p>172L1 STA 172+70.9, 55.8' LT<br/>MANHOLE, TYPE A, 5' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 699.00<br/>INV EL 690.05 (15" S)<br/>INV EL 689.77 (18" N)<br/>INV EL 691.30 (12" NW, NE)<br/>INV EL 694.90 (12" SE)</p> | <p>175L1 STA 175+43.8, 53.8' LT<br/>MANHOLE, TYPE A, 5' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 693.90<br/>INV EL 687.94 (21" S)<br/>INV EL 686.02 (21" N)<br/>INV EL 688.59 (12" E, NE, SW)</p>   | <p>177L STA 177+62, 60.0' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 690.49<br/>INV EL 684.36 (12" W,E)</p>  | <p>178L5 STA 178+95.7, 56.8' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 690.10<br/>INV EL 684.82 (12" S, NE)</p>                                       |
| <p>167L1 STA 167+50, 53.0' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 8 FRAME &amp; GRATE<br/>RIM EL 705.50<br/>INV EL 701.00</p>   | <p>170R STA 170+40, 48.0' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>&amp; WITH FLAT SLAB TOP<br/>RIM EL 701.18<br/>INV EL 699.78</p>                                      | <p>172L2 STA 172+74.20, 68.05' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 8 GRATE<br/>RIM EL 701.18<br/>INV EL 690.46</p>   | <p>175L2 STA 175+71.5, 4.3' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 8 FRAME &amp; GRATE<br/>RIM EL 693.75<br/>INV EL 689.12 (12" E, SW)</p>  | <p>177L1 STA 177+61.86, 69.60' LT<br/>MANHOLE, TYPE A, 5' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 691.06<br/>INV EL 683.20 (24" S)<br/>INV EL 683.04 (24" N)<br/>INV EL 684.32 (12" E)</p>                            | <p>178R3 STA 178+95.74, 48.0' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 690.32<br/>INV EL 685.07</p>  |
| <p>167L STA 167+50, 48.0' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 707.81<br/>INV EL 699.94</p>   | <p>170L2 STA 170+84.9, 66.3' LT<br/>SANITARY MH, TYPE A, 4' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 702.06<br/>INV EL 697.96 (8" N)</p>  | <p>172R STA 172+90, 48.0' RT<br/>CATCH BASIN, TYPE C, 2' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 698.34<br/>INV EL 692.34</p>   | <p>175R2 STA 175+72.4, 3.0' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 23 FRAME &amp; GRATE<br/>&amp; WITH FLAT SLAB TOP<br/>RIM EL 693.83<br/>INV EL 689.16</p>                                      | <p>178L1 STA 178+11.83, 69.57' LT<br/>RESTRICTOR MANHOLE,<br/>TYPE A, 6' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM 690.41<br/>INV EL 682.60 (24" N &amp; S)<br/>SEE DRAWING DU-21 FOR DETAILS</p>                          | <p>158TH PLACE<br/><br/>28R1 STA 28+28.59, 24.93' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>&amp; WITH FLAT SLAB TOP<br/>RIM EL 689.51<br/>INV EL 686.56</p> |
| <p>167L1 STA 167+54.27, 53.88' LT<br/>MANHOLE, TYPE A, 4' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 708.10<br/>INV EL 699.36 (18" S)<br/>INV EL 699.24 (18" N)<br/>INV EL 699.86 (12" SE)</p>                        | <p>171L STA 171+10, 60.0' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 701.24<br/>INV EL 694.25</p>   | <p>173L STA 173+04.0, 54.5' LT<br/>MANHOLE, TYPE A, 4' DIA.<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM EL 698.46<br/>INV EL 689.59 (18" S)<br/>INV EL 689.47 (18" E)</p>  | <p>175R1 STA 175+86.2, 57.1' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>&amp; WITH FLAT SLAB TOP<br/>RIM EL 692.52<br/>INV EL 689.71</p>                                     | <p>178L2 STA 178+27, 71.7' LT<br/>JUNCTION CHAMBER NO. 1<br/>W/ TYPE 1 FRAME, CLOSED LID<br/>RIM 690.33<br/>INV EL 682.50 (24" S)<br/>INV EL 681.32 (2-36" E)<br/>INV EL 681.32 (60" N)<br/>SEE DRAWING DU-19 FOR DETAILS</p> | <p>28L1 STA 28+28.59, 31.72' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>&amp; WITH FLAT SLAB TOP<br/>RIM EL 689.56<br/>INV EL 686.11</p>                      |
| <p>167R STA 167+71.4, 60.0' RT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 707.17<br/>INV EL 701.96</p>   | <p>171L1 STA 171+25, 59.7' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 700.98<br/>INV EL 693.81 (12" S)<br/>INV EL 693.71 (12" N)</p>                                | <p>174L STA 174+00, 48.0' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 696.38<br/>INV EL 690.45 (12" NE)</p>  | <p>178L3 STA 178+75.7, 58.0' LT<br/>CATCH BASIN, TYPE A, 4' DIA.<br/>W/ TYPE 24 FRAME &amp; GRATE<br/>RIM EL 690.06<br/>INV EL 685.06</p>  |   |   |

| REVISIONS |      | ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD) |  |
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| NAME      | DATE | US RTE 45 (LAGRANGE ROAD)<br>DRAINAGE NOTES   |  |
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SCALE: N/A  
DATE: 7-07-06  
DRAWN BY: JTF  
CHECKED BY: OIU



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**US RTE 45 (LAGRANGE ROAD)  
STA 130+00 TO STA 183+50**

DRAWING NO. DU-2  
STA 165+00 TO STA 179+00

28R2 STA 28+38.59, 26.4' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 689.50  
INV EL 686.40

28L2 STA 28+38.59, 31.8' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 689.57  
INV EL 686.07

29R STA 29+12.12, 32.2' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 691.11  
INV EL 688.00

29L STA 29+11.73, 35.48' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 690.54  
INV EL 687.54

30L STA 30+78.8, 42.8' LT  
RECONSTRUCT EX CB  
W/ NEW TYPE 1 FRAME, CL  
RIM EL 691.21  
INV EL 685.39 (12" E)  
MAINTAIN EX 27" PIPE

31R1 STA 31+25.08, 32.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 690.61  
INV EL 685.65

31L1 STA 31+25.08, 32.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 690.41  
INV EL 685.05

31R2 STA 31+35.08, 32.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 690.71  
INV EL 685.71

31L2 STA 31+35.08, 32.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 690.47  
INV EL 685.11

DRAWING NO. DU-3  
STA 179+00 TO STA 182+19.56

179L STA 179+03.37, 2.9' LT  
MANHOLE, TYPE A, 4' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 690.84  
INV EL 683.27 (15" W)  
INV EL 684.11 (12" S, SE)  
INV EL 687.00 (12" NE)

179L1 STA 179+09.5, 46.4' LT  
MANHOLE, TYPE A, 4' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 690.33  
INV EL 682.79 (18" N)  
INV EL 683.05 (15" E)  
INV EL 684.54 (12" SW)

179L2 STA 179+21.6, 5.7' RT  
CATCH BASIN, TYPE C, 2' DIA.  
W/ TYPE 24 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 690.94  
INV EL 687.94

180R STA 180+29.97, 41.2' RT  
INLET, TYPE A, 2' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 690.87  
INV EL 688.37

180L STA 180+30.86, 41.5' LT  
INLET, TYPE A, 2' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 690.78  
INV EL 687.50

180L1 STA 180+37.5, 43.4' LT  
MANHOLE, TYPE A, 5' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 690.90  
INV EL 682.17 (18" S)  
INV EL 681.65 (24" N)

181L STA 181+42.1, 60.7' LT  
RESTRICTOR MANHOLE  
TYPE A, 5' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 688.72  
INV EL 680.68 (24" E)  
INV EL 680.68 (24" W)  
SEE DRAWING DU-21 FOR DETAILS

181L1 STA 181+42.1, 53.1' LT  
JUNCTION CHAMBER NO. 2  
W/ 2 TYPE 1 FRAME, CLOSED LID  
RIM 688.80  
INV EL 680.82 (24" N)  
INV EL 680.82 (24" S)  
INV EL 680.70 (24" W)  
SEE DRAWING DU-20 FOR DETAILS

**US RTE 6 (159TH STREET)  
STA 418+59.19 TO STA 447+53.93**

DRAWING NO. DU-4  
STA 421+18.46 TO STA 427+00

422R STA 422+01.40, 40.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 700.33  
INV EL 696.07

\* 422L1 STA 422+00.7, 33.1' LT  
MANHOLE, TYPE A, 5' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 700.47  
INV EL 688.78 (36" W)  
INV EL 689.26 (30" E)  
INV EL 695.34 (12" S)  
INV EL 695.83 (12" N)

422L STA 422+01.4, 52.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 700.09  
INV EL 696.02

423L STA 423+75.3, 52.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 700.96  
INV EL 697.40

\* 423L1 STA 423+75.0, 33.14' LT  
MANHOLE, TYPE A, 5' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 701.34  
INV EL 690.12 (30" W)  
INV EL 690.22 (STUB) (30" E)  
INV EL 696.60 (12" N)  
INV EL 697.22 (12" S)

\* EXISTING BY OTHERS

423 STA 423+98.3, CENTERLINE  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 8 GRATE  
RIM EL 701.81  
INV EL 695.61 (12" NW,SE)

424R STA 424+16, 40.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 701.41  
INV EL 696.41

425L STA 425+70.3, 42.3' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 702.12  
INV EL 697.12

425L1 STA 425+76.7, 33.1' LT  
MANHOLE, TYPE A, 5' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 702.34  
INV EL 691.52 (30" W)  
INV EL 691.65 (30" E)  
INV EL 695.74 (12" SE)  
INV EL 696.98 (12" NW)

426R STA 426+26.9, 40.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 702.44  
INV EL 697.44

DRAWING NO. DU-5  
STA 427+00 TO STA 441+00

427L STA 427+70.3, 40.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 703.16  
INV EL 698.16

427L1 STA 427+69.7, 33.1' LT  
MANHOLE, TYPE A, 5' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 703.30  
INV EL 692.60 (30" W)  
INV EL 692.72 (30" E)  
INV EL 698.10 (12" N)  
INV EL 696.62 (12" SE)

428R STA 428+01.94, 44.86' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 703.22  
INV EL 698.22

429 STA 429+22.7, 1.1' LT  
CATCH BASIN, TYPE C, 2' DIA.  
W/ TYPE 8 GRATE  
RIM EL 704.42  
INV EL 699.52

429R STA 429+70.25, 52.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 703.92  
INV EL 698.92

429L STA 429+70.25, 52.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 703.92  
INV EL 698.92

429R2 STA 429+75.0, 12.0 RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 23 FRAME & GRATE  
RIM EL 704.64  
INV EL 698.52 (12" N,SW,NW)

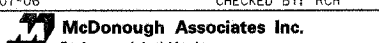
429L1 STA 429+75.25, 46.0' LT  
MANHOLE, TYPE A, 5' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 704.06  
INV EL 693.73 (30"W)  
INV EL 693.85 (30" E)  
INV EL 698.84 (12" NW)  
INV EL 697.44 (12" S)

431L STA 431+50.8, 42.21' LT  
MANHOLE, TYPE A, 5' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 705.00  
INV EL 694.72 (30" W)  
INV EL 696.62 (24" E,S)

| F.A.E. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|--------|--------------|-----------|
| 351         | 537 R-1 | COOK   | 245          | 88        |

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| STA.                | TO STA.                   |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |

CONTRACT # 62880

| REVISIONS  | NAME            | DATE |
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| ILLINOIS DEPARTMENT OF TRANSPORTATION<br>US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  |                 |      |
| <b>US RTE 45 - US RTE 6<br/>DRAINAGE NOTES</b>   |                 |      |
| SCALE: N/A   | DRAWN BY: OIU   |      |
| DATE: 7-07-06  | CHECKED BY: RCH |      |
|  <b>McDonough Associates Inc.</b><br>Engineers / Architects |                 |      |

FILES  
DATES  
TTMES

| FILE<br>RTE. | SECTION | COUNTY | TOTAL<br>SHEETS | SHEET<br>NO. |
|--------------|---------|--------|-----------------|--------------|
| 351          | 537 R-1 | COOK   | 245             | 89           |

STA. \_\_\_\_\_ TO STA. \_\_\_\_\_  
FED. ROAD DIST. NO. \_\_\_\_\_ ILLINOIS FED. AID PROJECT \_\_\_\_\_

CONTRACT # 62880

DRAWING NO. DU-5  
STA 427+00 TO STA 441+00

DRAWING NO. DU-6  
STA 441+00 TO 94TH AVENUE

431R STA 431+57.0, 62.1' RT  
MANHOLE, TYPE A, 5' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 705.17  
INV EL 697.17 (24" N)  
INV EL 697.29 (24" E)

433L3 STA 433+38.7, 61.4' LT  
MANHOLE, TYPE A, 6' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 704.91  
INV EL 697.55 (24" W)  
INV EL 697.67 (24" E)  
INV EL 698.32 (15" NE)  
INV EL 699.51 (12" S)

435R5 STA 435+78.09, 9.00' RT  
MANHOLE, TYPE A, 4' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
& WITH FLAT SLAB TOP  
RIM EL 705.24  
INV EL 700.50 (18" N)  
INV EL 700.60 (15" S)  
INV EL 701.60 (12" E)

437L1 STA 437+25.09, 60.0' LT  
MANHOLE, TYPE A, 4' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 705.81  
INV EL 70.19 (18" W)  
INV EL 700.31 (18" E)  
INV EL 700.68 (12" S)

442L STA 441+99.8, 46.3' LT  
MANHOLE, TYPE A, 4' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 709.89  
INV EL 703.02 (15" W)  
INV EL 703.90 (12" W)

433L STA 433+10.1, 49.5' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 704.78  
INV EL 699.78

433L2 STA 433+40.1, 53.8' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 704.20  
INV EL 699.55 (12" W,N)

435L2 STA 435+78.1, 60.34' LT  
MANHOLE, TYPE A, 5' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 704.95  
INV EL 698.85 (24" W)  
INV EL 699.37 (18" E,S)  
INV EL 699.62 (12" SW)

438L1 STA 438+75.1, 59.0' LT  
MANHOLE, TYPE A, 4' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 707.33  
INV EL 701.04 (18" W)  
INV EL 701.31 (15" E)  
INV EL 701.56 (12" S)

442R STA 442+00.0, 11.57' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 23 FRAME & GRATE  
RIM EL 709.98  
INV EL 704.98

433L4 STA 433+25.1, 9.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 23 FRAME & GRATE  
RIM EL 704.93  
INV EL 700.00

435R3 STA 435+92.1, 9.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 23 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 705.19  
INV EL 702.00 (12" E)  
INV EL 701.90 (12" W)

435R STA 435+95.3, 52.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 704.83  
INV EL 701.53 (12" E)  
INV EL 701.43 (12" W)

438L STA 438+75.1, 52.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 706.84  
INV EL 701.59 (12" N,S)

444L STA 444+86.08, 34.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 709.15  
INV EL 704.15

433R STA 433+25.08, 52.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 704.70  
INV EL 699.43 (12" N,S,E)

435L STA 435+55.98, 52.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 704.03  
INV EL 701.69

436R2 STA 436+05.4, 52.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 704.83  
INV EL 701.73 (12" E)  
INV EL 701.63 (12" W)

438R1 STA 438+75.1, 6.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 8 GRATE  
RIM EL 707.41  
INV EL 702.13 (12" N,S)

ADJ STA 445+26.98, 37.51' LT  
ADJUST EXISTING MANHOLE  
W/ NEW TYPE 1 FRAME, CL  
RIM EL 707.60 (EXISTING)  
RIM EL 708.67 (PROPOSED)  
INV EL 692.05 (E,W-MAINTAIN EX)  
INV EL 701.82 (12" S)  
INV EL 703.41 (12" SW)

433R2 STA 433+25.08, 61.8' RT  
MANHOLE, TYPE A, 5' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 705.70  
INV EL 698.11 (24" W)  
INV EL 698.63 (18" SE)  
INV EL 699.37 (12" N)

435L1 STA 435+65.98, 52.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 704.03  
INV EL 701.49 (12" W)  
INV EL 701.39 (12" NE)

436L STA 436+25.09, 52.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 704.97  
INV EL 700.01 (12" N,SE)

438R STA 438+75.1, 40.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 707.09  
INV EL 703.43

445R STA 445+25.09, 46.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 708.42  
INV EL 703.42

433R1 STA 433+35.08, 52.11' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 704.70  
INV EL 699.43

436R3 STA 436+02.1, 9.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 23 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 705.18  
INV EL 702.18 (12" W)

436L1 STA 436+25.09, 60.13' LT  
MANHOLE, TYPE A, 4' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 705.47  
INV EL 699.59 (18" W)  
INV EL 699.71 (18" E)  
INV EL 699.96 (12" SE)

440R STA 440+75.1, 40.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 708.58  
INV EL 703.58

447L1 STA 447+11.89, 38.41' LT  
MANHOLE, TYPE A, 5' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 705.03  
INV EL 690.92 (27" W)  
INV EL 690.88 (27" E)  
INV EL 698.58 (12" NE)  
CONSTRUCT ON EXISTING 27" SS

433L6 STA 433+07.8, 58.3' LT  
MANHOLE, TYPE A, 4' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 705.01  
INV EL 697.40 (24" W)  
INV EL 697.50 (24" E)  
INV EL 698.50 (12" S)

435R1 STA 435+65.98, 52.1' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 704.53  
INV EL 702.00

436R1 STA 436+70.00, 9.0' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 23 FRAME & GRATE  
RIM EL 705.69  
INV EL 700.73

440 STA 440+75.1, CENTERLINE  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 8 GRATE  
RIM EL 709.08  
INV EL 703.22 (12" N,S)

447L STA 447+20.0, 42.22' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 704.80  
INV EL 698.68 (12" S)  
INV EL 698.58 (12" SW)

433L5 STA 433+35.08, 9.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 23 FRAME & GRATE  
RIM EL 704.93  
INV EL 700.06

435R2 STA 435+78.1, 52.0' RT  
MANHOLE, TYPE A, 4' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
& WITH FLAT SLAB TOP  
RIM EL 705.00  
INV EL 701.00 (15" SW)  
INV EL 701.20 (12" E)  
INV EL 701.50 (12" W)

436R STA 436+84.87, 50.97' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
& WITH FLAT SLAB TOP  
RIM EL 705.45  
INV EL 702.44

440L STA 440+75.1, 44.75' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 708.49  
INV EL 702.81 (12" N,S)

447L2 STA 447+20.0, 3.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 23 FRAME & GRATE  
RIM EL 705.29  
INV EL 699.04 (12" S,N)

433L1 STA 433+30.1, 51.1' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 704.20  
INV EL 699.62 (12" E,W)

437L STA 437+25.1, 52.0' LT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 705.72  
INV EL 700.72

440L1 STA 440+75.1, 54.50' LT  
MANHOLE, TYPE A, 4' DIA.  
W/ TYPE 1 FRAME, CLOSED LID  
RIM EL 708.61  
INV EL 702.41 (15" E)  
INV EL 702.75 (12" S)

447R STA 447+20.0, 53.57' RT  
CATCH BASIN, TYPE A, 4' DIA.  
W/ TYPE 24 FRAME & GRATE  
RIM EL 704.57  
INV EL 699.57

| REVISIONS |      |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

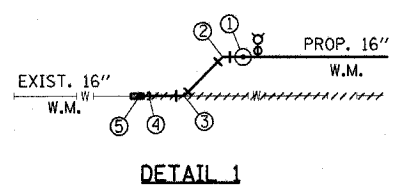
US RTE 6 (159TH STREET)  
DRAINAGE NOTES

SCALE: N/A  
DATE: 7-07-06

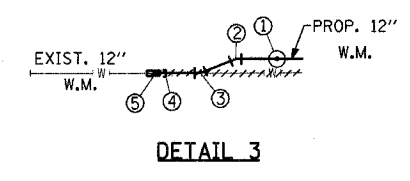
DRAWN BY: JTF  
CHECKED BY: OIU



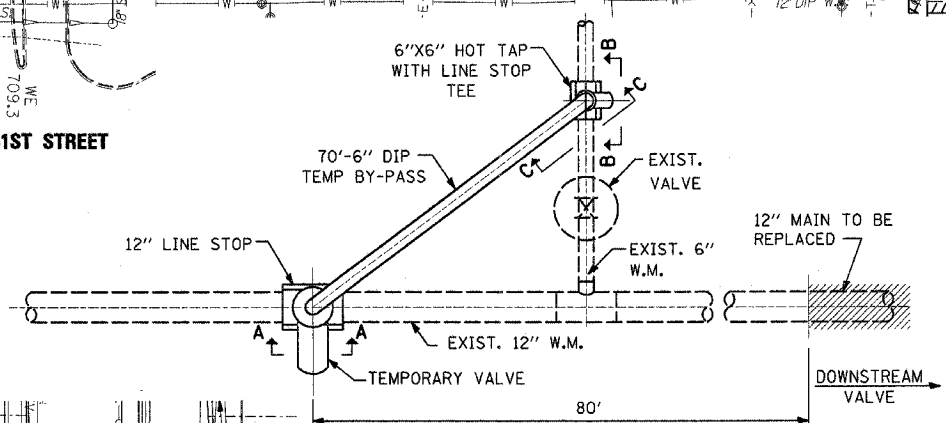
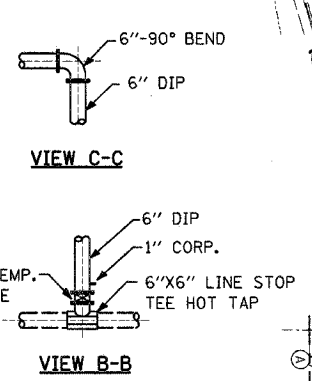
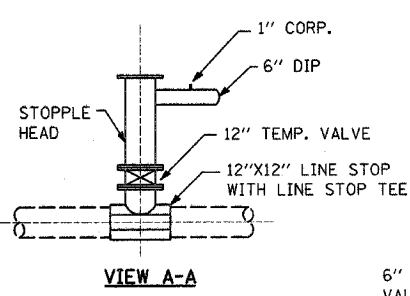
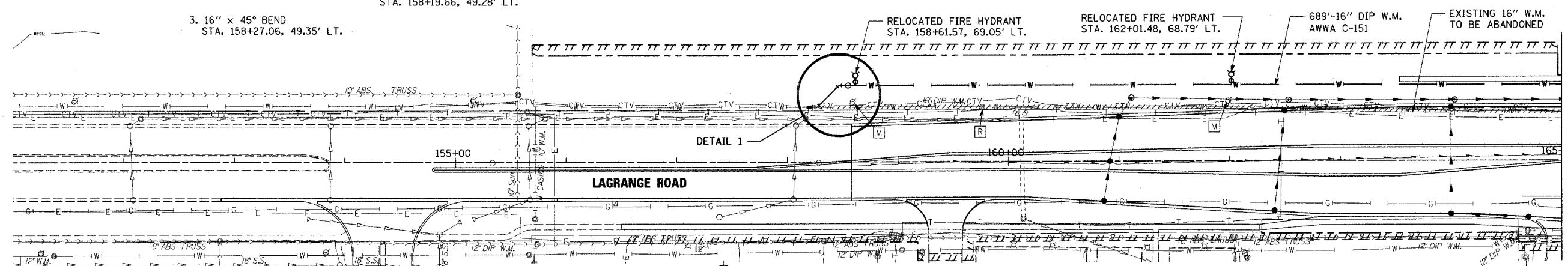
|                     |          |                  |              |           |
|---------------------|----------|------------------|--------------|-----------|
| E.A.D. RTE.         | SECTION  | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 351                 | 537 R-1  | COOK             | 245          | 90        |
| STA.                | TO STA.  |                  |              |           |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |              |           |
| CONTRACT # 62880    |          |                  |              |           |



- DETAIL 1 NOTES:**
- 16" BUTTERFLY VALVE (NON-PRESSURE CONNECTION) WITH 5' Ø VAULT STA. 158+55, 69.05' LT.
  - 16" x 45° BEND STA. 158+46.96, 69.05' LT.
  - 16" x 45° BEND STA. 158+27.06, 49.35' LT.
  - 16" TEMPORARY CAP TO BE INSTALLED AFTER CUTTING THE EXISTING 16" W.M. TEMPORARY CAP TO BE REMOVED AFTER CHLORINATION & TIE INTO EXIST. 16" W.M. WITH:
  - 16"-TRANSITION SLEEVE STA. 158+19.66, 49.28' LT.

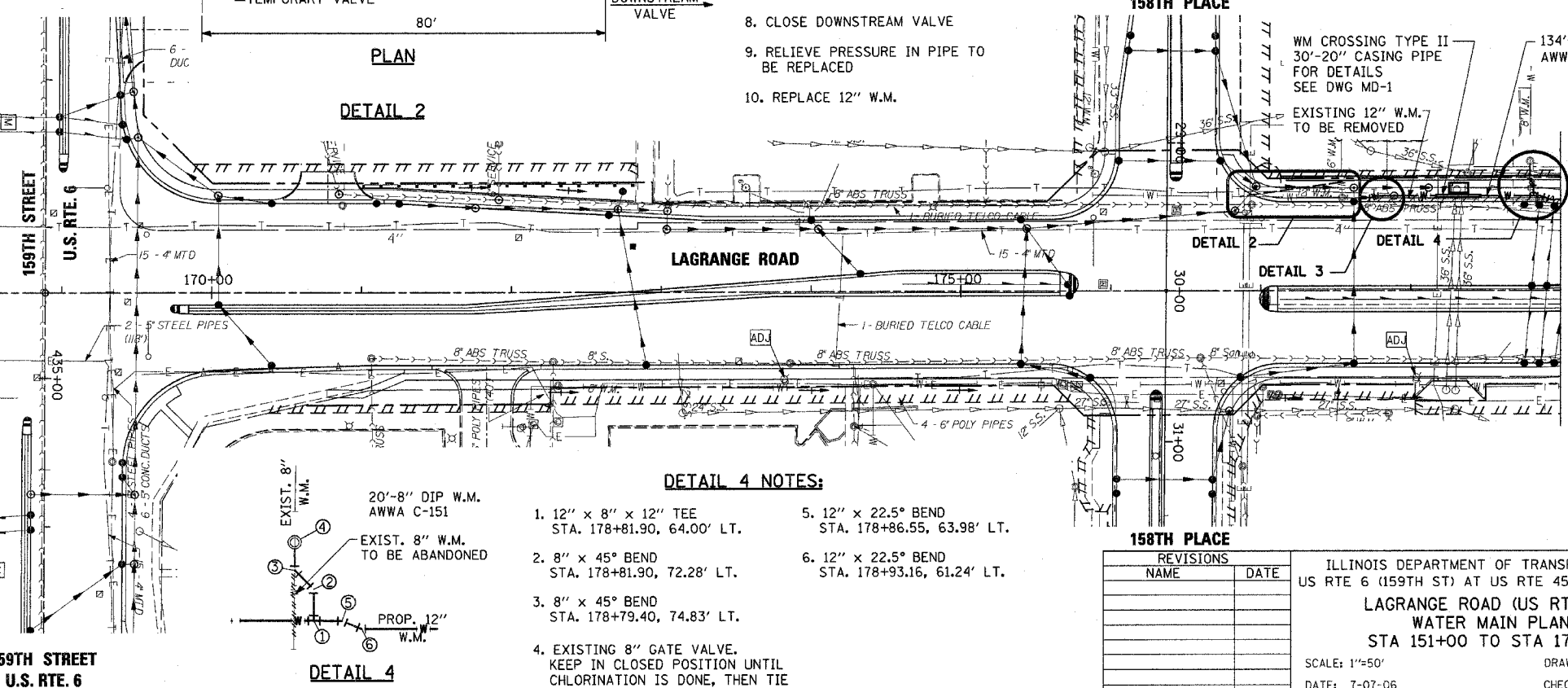
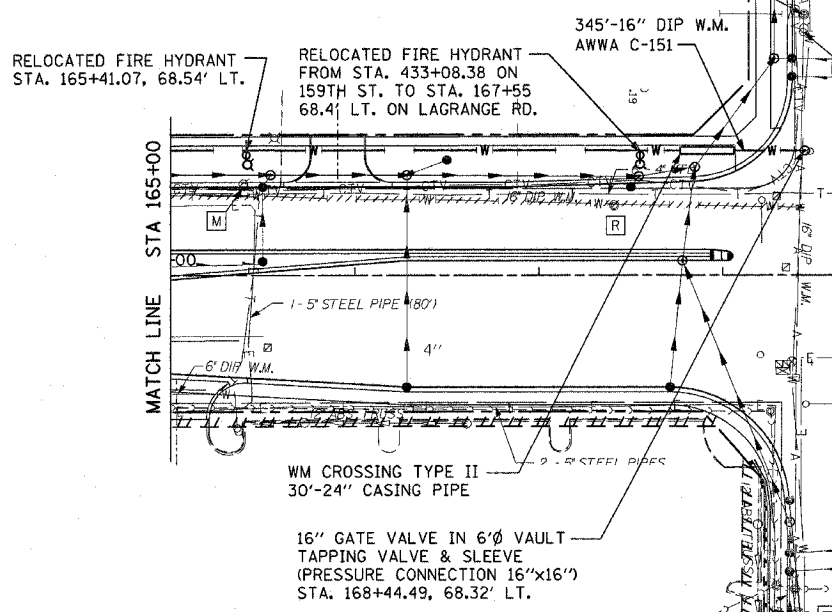


- DETAIL 3 NOTES:**
- 12" GATE VALVE (NON-PRESSURE CONNECTION) WITH 5' Ø VAULT STA. 177+88.83, 64.0' LT.
  - 12" x 45° BEND STA. 177+77.08, 64.0' LT.
  - 12" x 45° BEND STA. 177+73.72, 62.6' LT.
  - 12" TEMPORARY CAP TO BE INSTALLED AFTER CUTTING THE EXISTING 12" W.M. TEMPORARY CAP TO BE REMOVED AFTER CHLORINATION & TIE INTO EXIST. 12" W.M. WITH:
  - 12"-TRANSITION SLEEVE STA. 177+68.166, 62.6' LT.



- SEQUENCE OF OPERATION FOR DETAIL 2**
1. INSTALL 6" LINE STOP TEE/VALVE & COMPLETE HOT TAP ON 6" W.M.
  2. INSTALL 12" LINE STOP TEE/VALVE & COMPLETE HOT TAP ON 12" W.M.
  3. INSTALL 6" BY-PASS PIPING
  4. FLUSH, DISINFECT & COLLECT SAMPLES ON 6" BY-PASS PIPING
  5. PLACE 6" BY-PASS PIPING IN SERVICE
  6. PERFORM 12" LINE STOP
  7. CLOSE EXISTING 6" VALVE
  8. CLOSE DOWNSTREAM VALVE
  9. RELIEVE PRESSURE IN PIPE TO BE REPLACED
  10. REPLACE 12" W.M.
  11. PLACE 12" W.M. IN SERVICE
  12. REMOVE LINE STOP AND OPEN EXISTING VALVE & DOWNSTREAM VALVE
  13. CLOSE TEMP. VALVES & REMOVE 6" BY-PASS PIPING
  14. INSERT 6" AND 12" PLUGS INTO LINE STOP TEES
  15. REMOVE TEMPORARY VALVES
  16. INSTALL BLIND FLANGES ON LINE STOP TEES

**ELEVATIONS FOR DETAIL 2**



- DETAIL 4 NOTES:**
- 12" x 8" x 12" TEE STA. 178+81.90, 64.00' LT.
  - 8" x 45° BEND STA. 178+81.90, 72.28' LT.
  - 8" x 45° BEND STA. 178+79.40, 74.83' LT.
  - EXISTING 8" GATE VALVE. KEEP IN CLOSED POSITION UNTIL CHLORINATION IS DONE, THEN TIE INTO THE EXISTING 8" GATE VALVE.
  - 12" x 22.5° BEND STA. 178+86.55, 63.98' LT.
  - 12" x 22.5° BEND STA. 178+93.16, 61.24' LT.

**WATER MAIN LEGEND AND SYMBOLS**

- (R) STRUCTURE REMOVAL
- (A) VALVE VAULT TO BE ADJUSTED
- (M) STRUCTURE TO BE REMOVED
- (ADJ) STRUCTURE TO BE ADJUSTED

| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**LAGRANGE ROAD (US RTE 45)  
WATER MAIN PLAN  
STA 151+00 TO STA 179+00**  
SCALE: 1"=50'  
DATE: 7-07-06  
DRAWN BY: OIU  
CHECKED BY: RCH

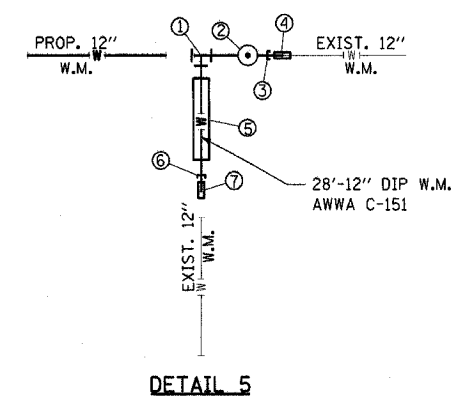
**McDonough Associates Inc.**  
Engineers / Architects

MATCH LINE STA 165+00  
MATCH LINE STA 179+00  
FOR CONTINUATION SEE DRAWING DU-16

FILES  
DATES  
TIMES

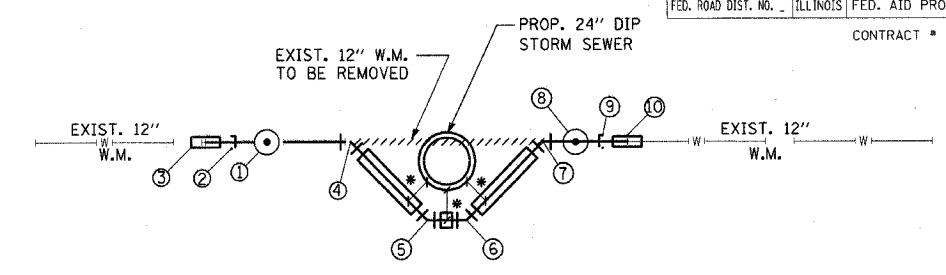
**DETAIL 5 NOTES:**

1. 12" x 12" x 12" TEE  
STA. 179+26.95, 61.52' LT.
2. 12" GATE VALVE  
(NON-PRESSURE CONNECTION)  
WITH 5' Ø VAULT  
STA. 179+37.32, 61.67' LT.
3. 12" TEMPORARY CAP TO BE INSTALLED  
AFTER CUTTING THE EXISTING 12" W.M.  
TEMPORARY CAP TO BE REMOVED AFTER  
CHLORINATION & TIE INTO EXIST. 12"  
W.M. WITH:
4. 12"-TRANSITION SLEEVE  
STA. 179+43.81, 61.61' LT.
5. 4- 12" x 45° VERTICAL BENDS  
20'-20" CASING PIPE. WM  
CROSSING TYPE I, SEE SHEET  
MD-1 FOR DETAILS.
6. 12" TEMPORARY CAP TO BE INSTALLED  
AFTER CUTTING THE EXISTING 12" W.M.  
TEMPORARY CAP TO BE REMOVED AFTER  
CHLORINATION & TIE INTO EXIST. 12"  
W.M. WITH:
7. 12"-TRANSITION SLEEVE  
STA. 179+27.03, 34.11' LT.

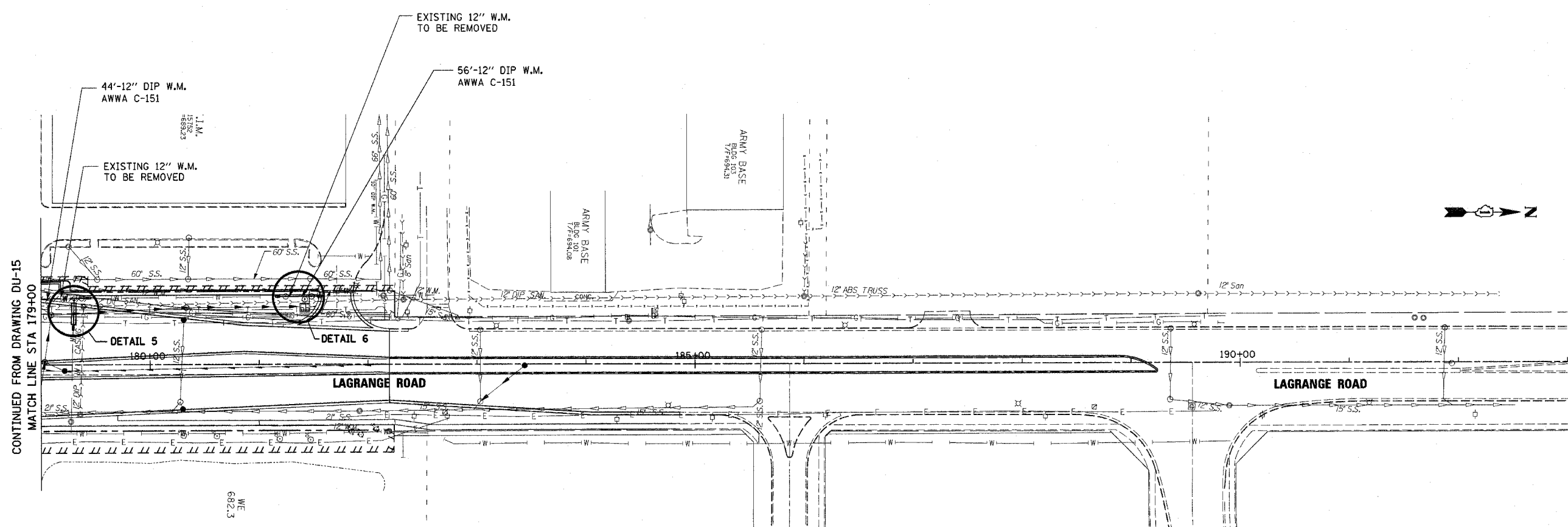


**DETAIL 6 NOTES:**

1. 12" GATE VALVE  
(NON-PRESSURE CONNECTION)  
WITH 5' Ø VAULT  
STA. 181+24.45, 63.32' LT.
2. 12" TEMPORARY CAP TO BE INSTALLED  
AFTER CUTTING THE EXISTING 12" W.M.  
TEMPORARY CAP TO BE REMOVED AFTER  
CHLORINATION & TIE INTO EXIST. 12"  
W.M. WITH:
3. 12"-TRANSITION SLEEVE  
STA. 181+17.04, 63.26' LT.
4. 12" x 45° VERTICAL BEND  
12'-20" CASING PIPE
5. 12" x 45° VERTICAL BEND  
6'-20" CASING PIPE
6. 12" x 45° VERTICAL BEND  
12'-20" CASING PIPE
7. 12" x 45° VERTICAL BEND
8. 12" GATE VALVE  
(NON-PRESSURE CONNECTION)  
WITH 5' Ø VAULT  
STA. 181+48.23, 63.54' LT.
9. 12" TEMPORARY CAP TO BE INSTALLED  
AFTER CUTTING THE EXISTING 12" W.M.  
TEMPORARY CAP TO BE REMOVED AFTER  
CHLORINATION & TIE INTO EXIST. 12"  
W.M. WITH:
10. 12"-TRANSITION SLEEVE  
STA. 181+55.46, 63.60' LT.



**DETAIL 6**  
• 18" VERTICAL SEPARATION



**WATER MAIN LEGEND AND SYMBOLS**

- [R] STRUCTURE REMOVAL
- [A] VALVE VAULT TO BE ADJUSTED
- [M] STRUCTURE TO BE REMOVED
- [AD] STRUCTURE TO BE ADJUSTED

| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**LAGRANGE ROAD (US RTE 45)**  
WATER MAIN PLAN  
STA 179+00 TO STA 182+19.46  
SCALE: 1"=50'  
DATE: 7-07-06  
DRAWN BY: JTF  
CHECKED BY: OIU

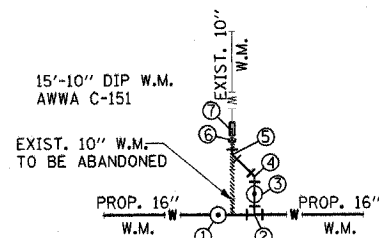


FILES  
DATES  
TIMES

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|---------|--------|--------------|-----------|
| 351         | 537 R-1 | COOK   | 245          | 92        |

STA. \_\_\_\_\_ TO STA. \_\_\_\_\_  
 FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

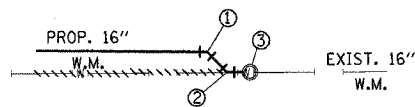
CONTRACT # 62880



**DETAIL 7**

**DETAIL 7 NOTES:**

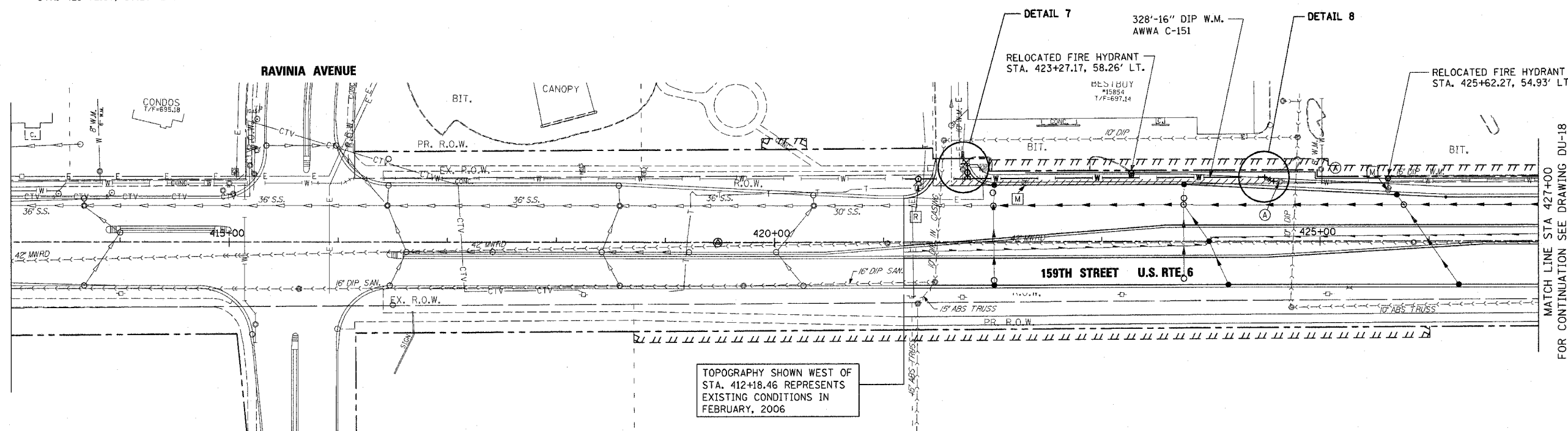
1. 16" BUTTERFLY VALVE (NON-PRESSURE CONNECTION) WITH 5' Ø VAULT STA. 421+31.85, 57.77' LT.
2. 16" x 10" x 16" TEE STA. 421+76.92, 58.12' LT.
3. 10" GATE VALVE (NON-PRESSURE CONNECTION) WITH 5' Ø VAULT STA. 421+76.92, 63.55' LT.
4. 10" x 45° BEND STA. 421+76.92, 71.46' LT.
5. 10" x 45° BEND STA. 421+72.57, 75.79' LT.
6. 10" TEMPORARY CAP TO BE INSTALLED AFTER CUTTING THE EXISTING 10" W.M. TEMPORARY CAP TO BE REMOVED AFTER CHLORINATION & TIE INTO EXIST. 10" W.M. WITH:
7. 10" TRANSITION SLEEVE STA. 421+72.57, 80.29' LT.



**DETAIL 8**

**DETAIL 8 NOTES:**

1. 16" x 45° BEND STA. 418+65.13, 56.97 LT.
2. 16" x 45° BEND STA. 418+59.48, 51.30' LT.
3. EXISTING 16" BUTTERFLY VALVE KEEP VALVE IN CLOSED POSITION UNTIL CHLORINATION IS DONE AND THEN CONNECT TO EXIST. VALVE



TOPOGRAPHY SHOWN WEST OF STA. 412+18.46 REPRESENTS EXISTING CONDITIONS IN FEBRUARY, 2006

**WATER MAIN LEGEND AND SYMBOLS**

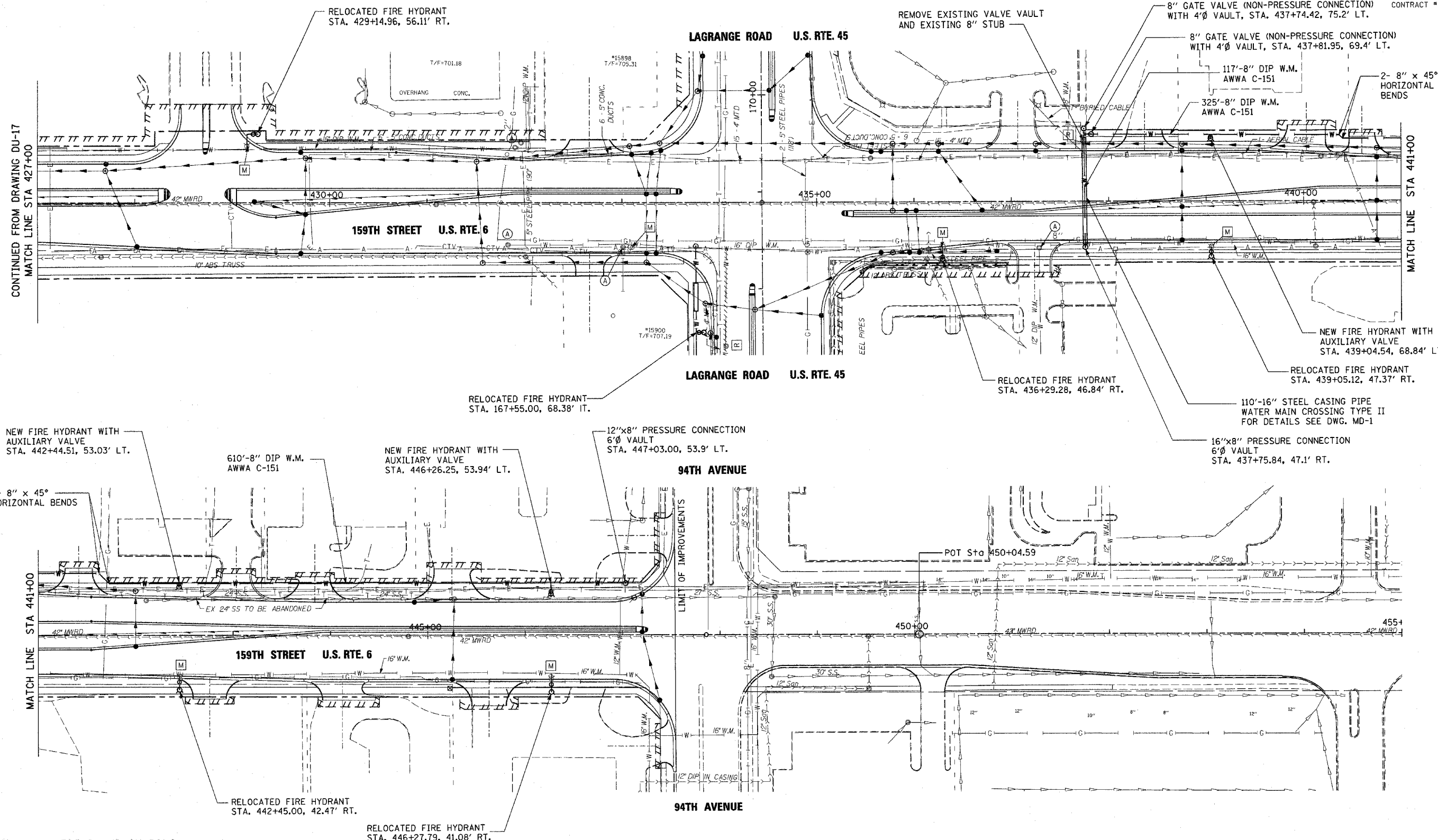
- [R] STRUCTURE REMOVAL
- [A] VALVE VAULT TO BE ADJUSTED
- [M] STRUCTURE TO BE REMOVED
- [ADJ] STRUCTURE TO BE ADJUSTED

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
 159TH STREET (US RTE 6)  
 WATER MAIN PLAN  
 STA 421+18.46 TO STA 427+00  
 SCALE: 1"=50' DRAWN BY: JTF  
 DATE: 7-07-06 CHECKED BY: OIU

**McDonough Associates Inc.**  
 Engineers / Architects

|                     |          |                  |                  |           |
|---------------------|----------|------------------|------------------|-----------|
| F.A.D. RTE.         | SECTION  | COUNTY           | TOTAL SHEETS     | SHEET NO. |
| 351                 | 537 R-1  | COOK             | 245              | 93        |
| STA. _____          |          | TO STA. _____    |                  |           |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | CONTRACT # 62880 |           |

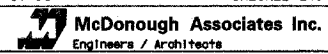


**WATER MAIN LEGEND AND SYMBOLS**

- [R] STRUCTURE REMOVAL
- [A] VALVE VAULT TO BE ADJUSTED
- [M] STRUCTURE TO BE REMOVED
- [ADJ] STRUCTURE TO BE ADJUSTED

| REVISIONS |      |
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| NAME      | DATE |
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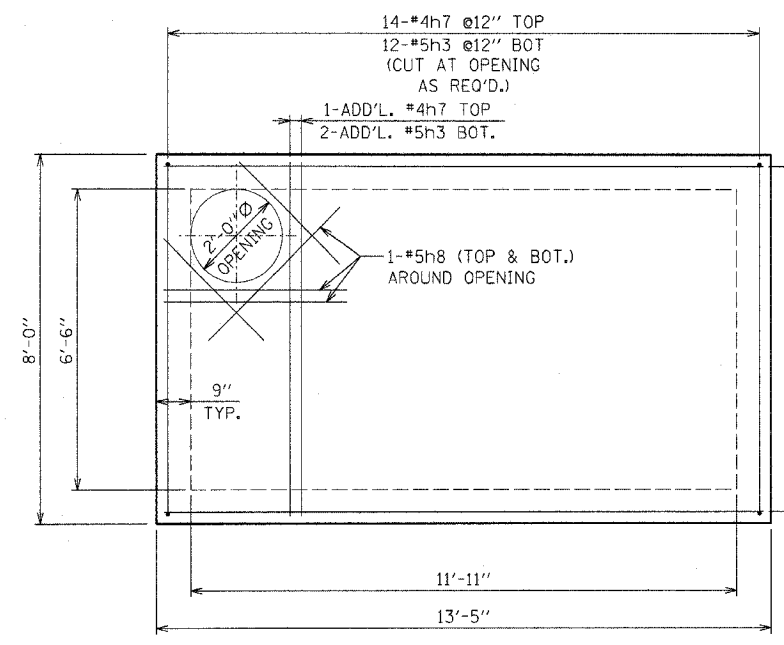
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**159TH STREET (US RTE 6)**  
**WATER MAIN PLAN**  
 STA 427+00 TO 94TH AVENUE  
 SCALE: 1"=50'  
 DATE: 7-07-06  
 DRAWN BY: BA  
 CHECKED BY: RCH



FILES  
 DATES  
 TIMES

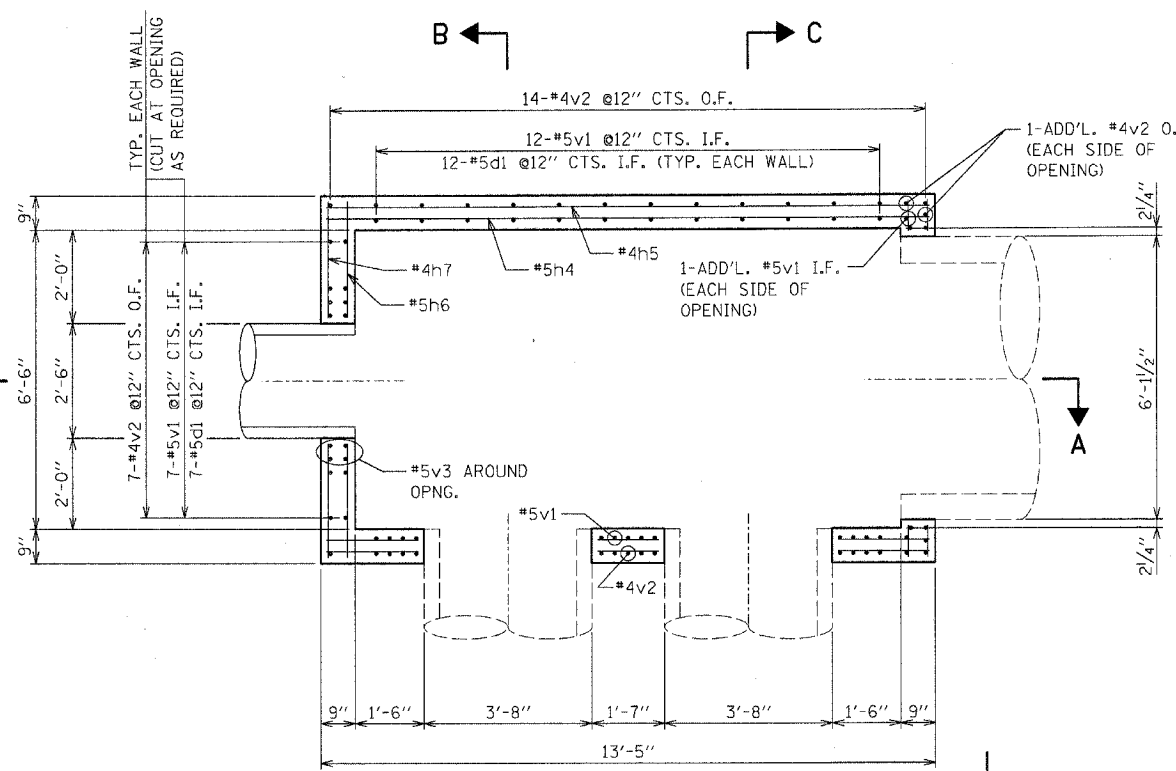


|                           |         |                           |              |           |
|---------------------------|---------|---------------------------|--------------|-----------|
| E.A.P. RTE.               | SECTION | COUNTY                    | TOTAL SHEETS | SHEET NO. |
| 351                       | 537 R-1 | COOK                      | 245          | 94        |
| STA. _____                |         | TO STA. _____             |              |           |
| FED. ROAD DIST. NO. _____ |         | ILLINOIS FED. AID PROJECT |              |           |
| CONTRACT # 62880          |         |                           |              |           |

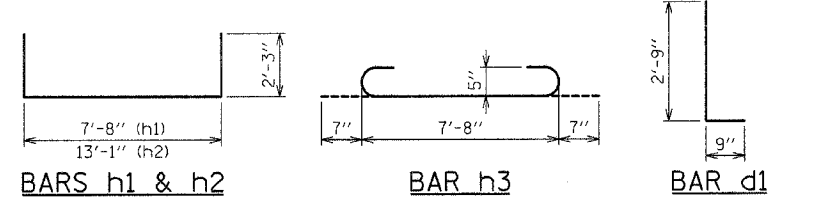


**TOP SLAB PLAN**  
SCALE: AS SHOWN

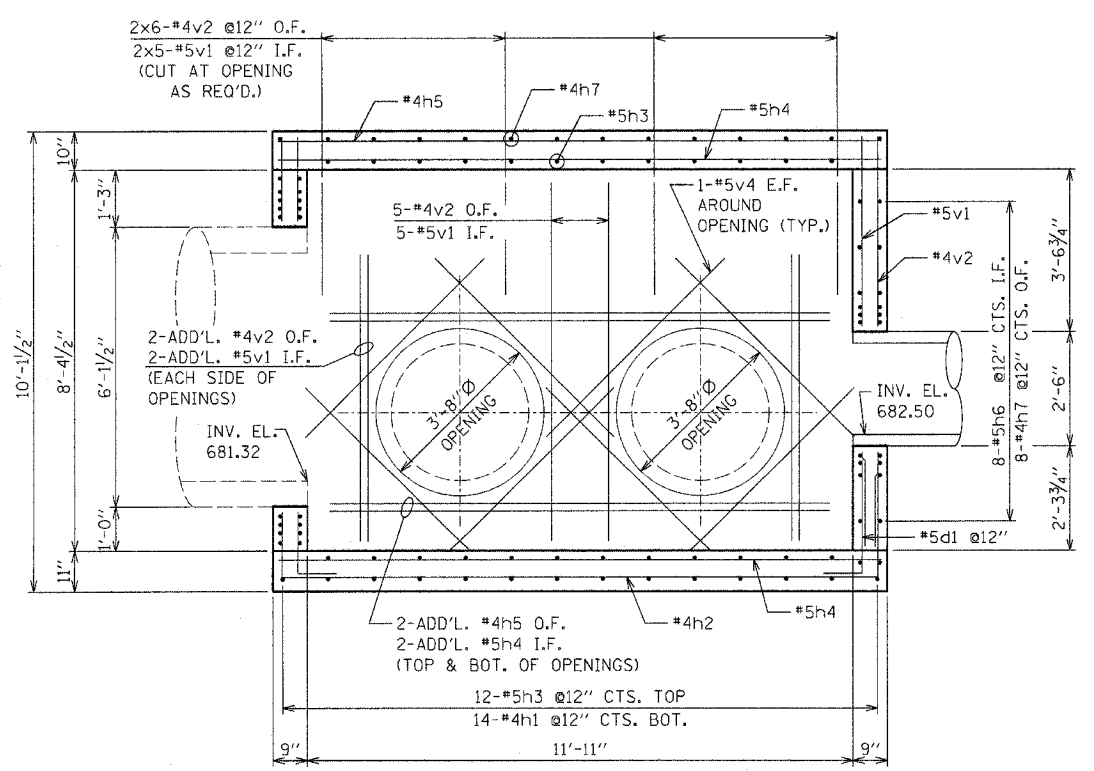
**NOTES:**  
CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF CLASS "SI" IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.  
REINFORCEMENT BARS SHALL BE EPOXY COATED AND CONFORM TO THE REQUIREMENTS OF ASTM-A615, GRADE 60.



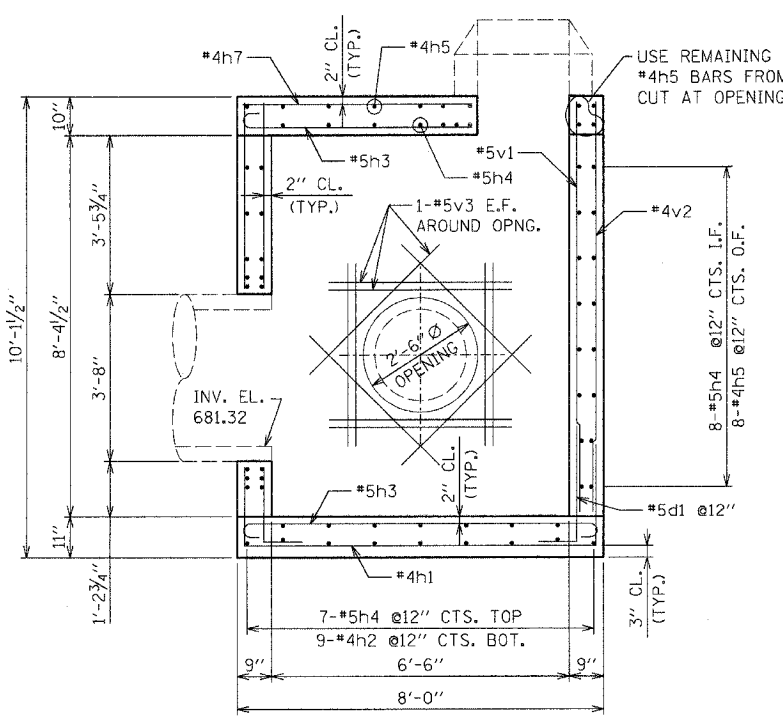
**PLAN**  
SCALE: AS SHOWN



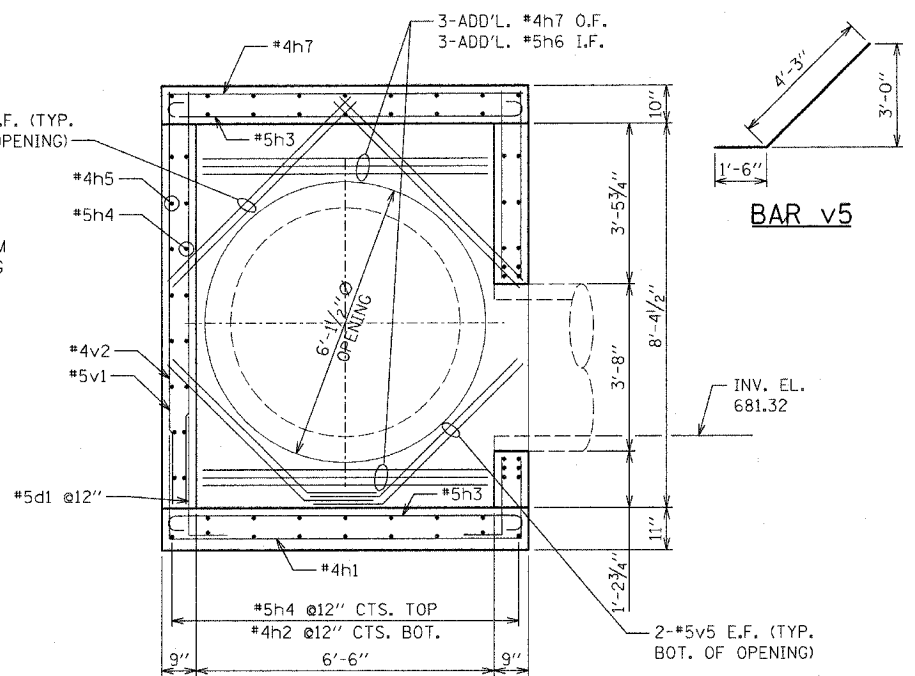
**BARS h1 & h2**      **BAR h3**      **BAR d1**



**SECTION A-A**  
SCALE: AS SHOWN



**SECTION B-B**  
SCALE: AS SHOWN



**SECTION C-C**  
SCALE: AS SHOWN

**BILL OF MATERIAL**

| BAR                              | NO.     | SIZE | LENGTH | SHAPE |
|----------------------------------|---------|------|--------|-------|
| h1(E)                            | 14      | #4   | 12'-2" |       |
| h2(E)                            | 9       | #4   | 17'-7" |       |
| h3(E)                            | 26      | #5   | 8'-10" |       |
| h4(E)                            | 34      | #5   | 13'-1" |       |
| h5(E)                            | 29      | #4   | 13'-1" |       |
| h6(E)                            | 22      | #5   | 7'-8"  |       |
| h7(E)                            | 37      | #4   | 7'-8"  |       |
| h8(E)                            | 10      | #5   | 4'-0"  |       |
| d1(E)                            | 38      | #5   | 3'-6"  | L     |
| v1(E)                            | 47      | #5   | 9'-0"  |       |
| v2(E)                            | 53      | #4   | 9'-0"  |       |
| v3(E)                            | 24      | #5   | 4'-6"  |       |
| v4(E)                            | 24      | #5   | 5'-8"  |       |
| v5(E)                            | 8       | #5   | 5'-9"  |       |
| CONCRETE STRUCTURES              | CU. YD. |      | 14.6   |       |
| REINFORCEMENT BARS, EPOXY COATED | POUND   |      | 2,790  |       |

| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**JUNCTION CHAMBER NO. 1**  
**STRUCTURE NO. 178L2**  
**REINFORCEMENT DETAILS**  
SCALE: 1/2"=1'-0"      DRAWN BY: KWT  
DATE: 7-07-06      CHECKED BY: AW

**McDonough Associates Inc.**  
Engineers / Architects

FILES  
DATES  
STIMES

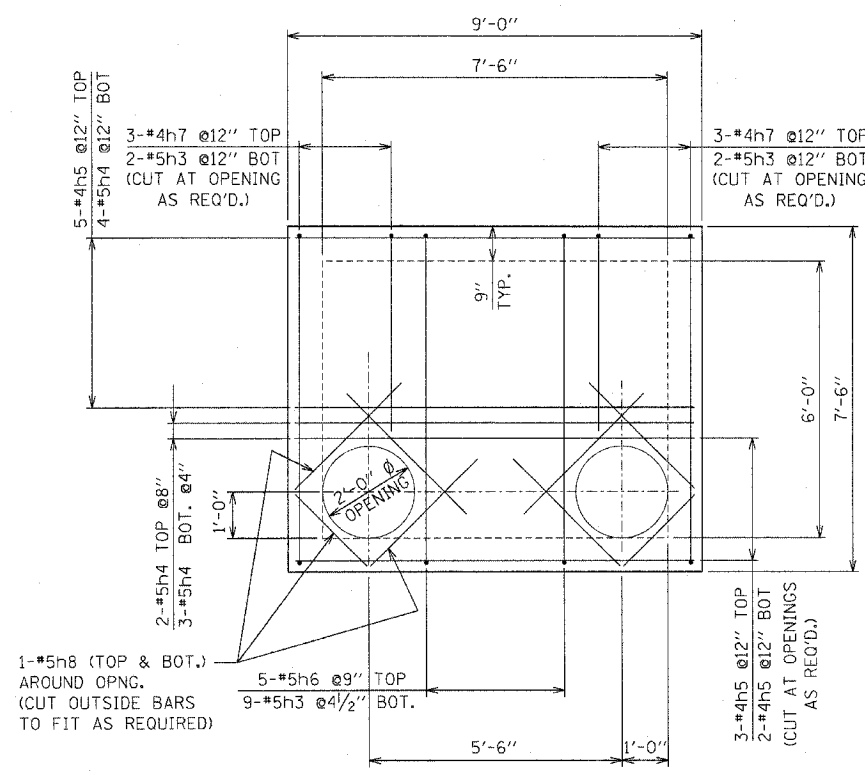
|             |         |        |              |           |
|-------------|---------|--------|--------------|-----------|
| F.A.P. FILE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 351         | 537 R-1 | COOK   | 245          | 95        |

STA. \_\_\_\_\_ TO STA. \_\_\_\_\_  
 FED. ROAD DIST. NO. \_\_\_\_\_ ILLINOIS FED. AID PROJECT

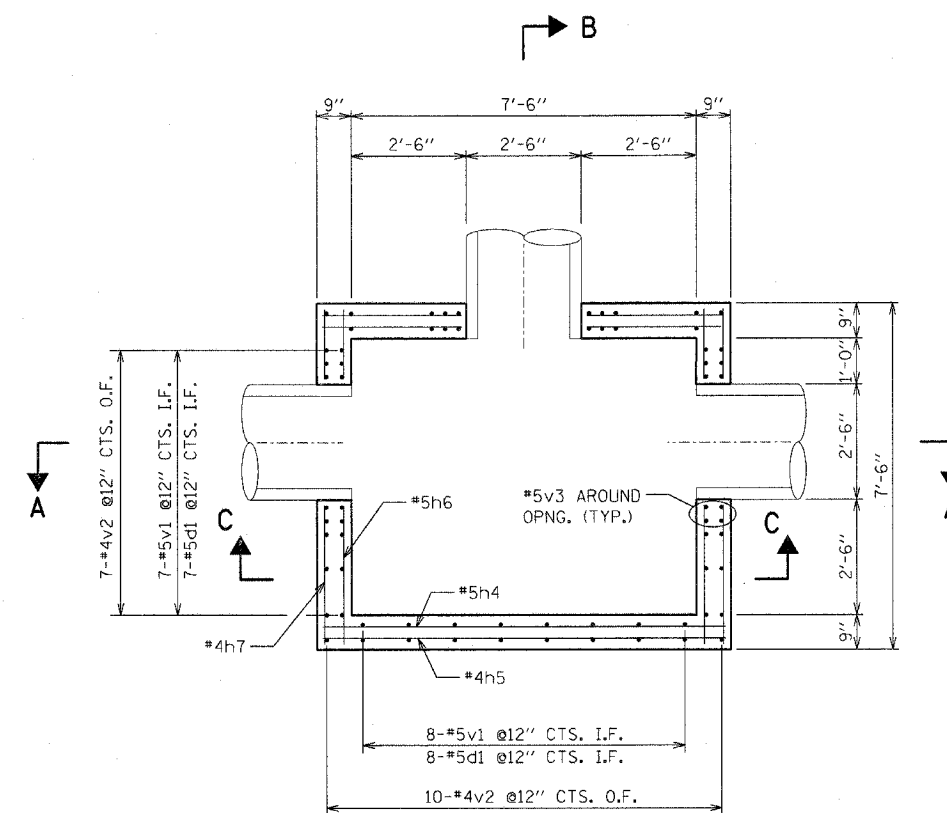
CONTRACT # 62880

**BILL OF MATERIAL**

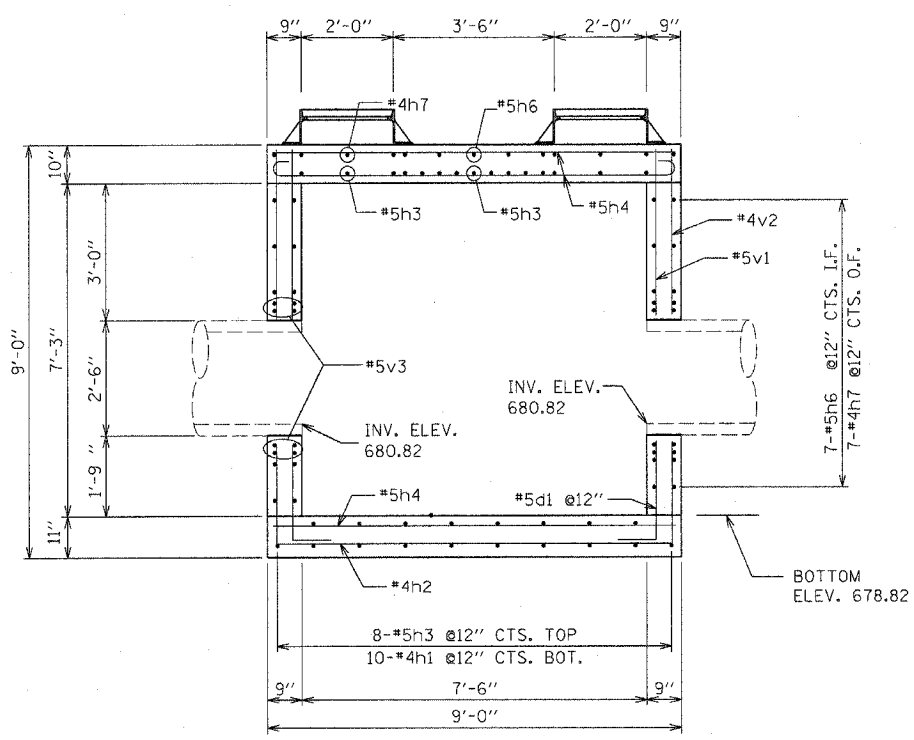
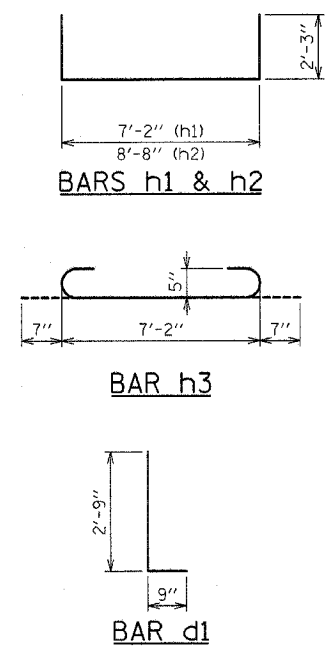
| BAR                              | NO. | SIZE | LENGTH  | SHAPE |
|----------------------------------|-----|------|---------|-------|
| h1(E)                            | 10  | #4   | 11'-8"  | □     |
| h2(E)                            | 9   | #4   | 13'-2"  | □     |
| h3(E)                            | 21  | #5   | 8'-4"   | □     |
| h4(E)                            | 29  | #5   | 8'-8"   | □     |
| h5(E)                            | 25  | #4   | 8'-8"   | □     |
| h6(E)                            | 19  | #5   | 7'-2"   | □     |
| h7(E)                            | 20  | #4   | 7'-2"   | □     |
| h8(E)                            | 16  | #5   | 5'-0"   | □     |
| d1(E)                            | 30  | #5   | 3'-6"   | L     |
| v1(E)                            | 30  | #5   | 7'-10"  | □     |
| v2(E)                            | 34  | #4   | 7'-10"  | □     |
| v3(E)                            | 72  | #5   | 4'-6"   | □     |
| CONCRETE STRUCTURES              |     |      | CU. YD. | 9.6   |
| REINFORCEMENT BARS, EPOXY COATED |     |      | POUND   | 1,890 |



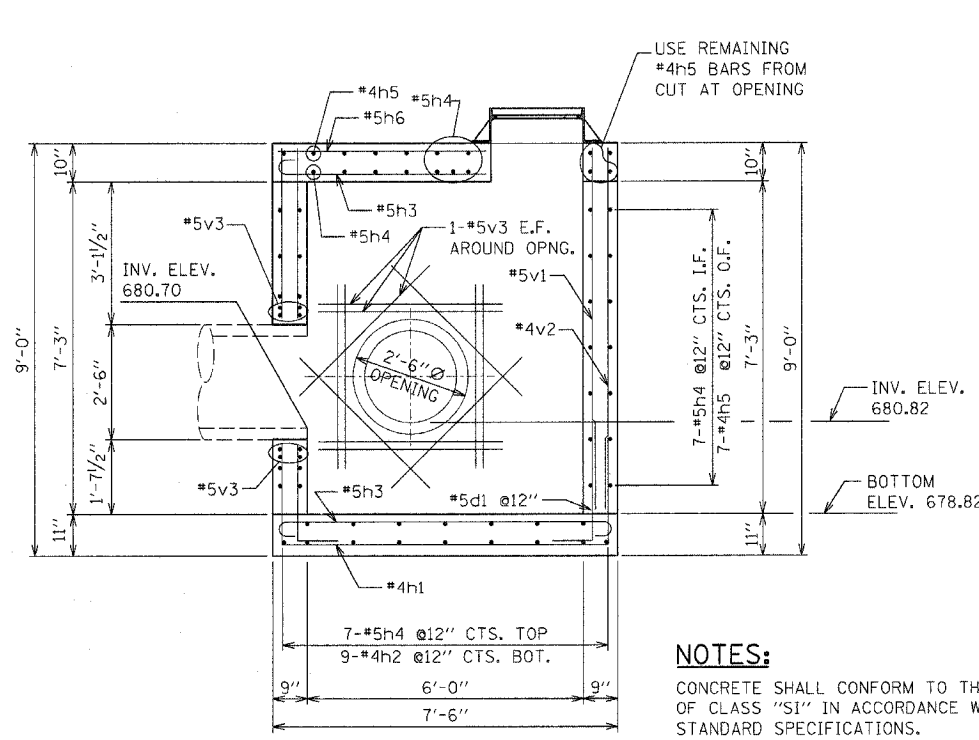
**TOP SLAB PLAN**  
SCALE: AS SHOWN



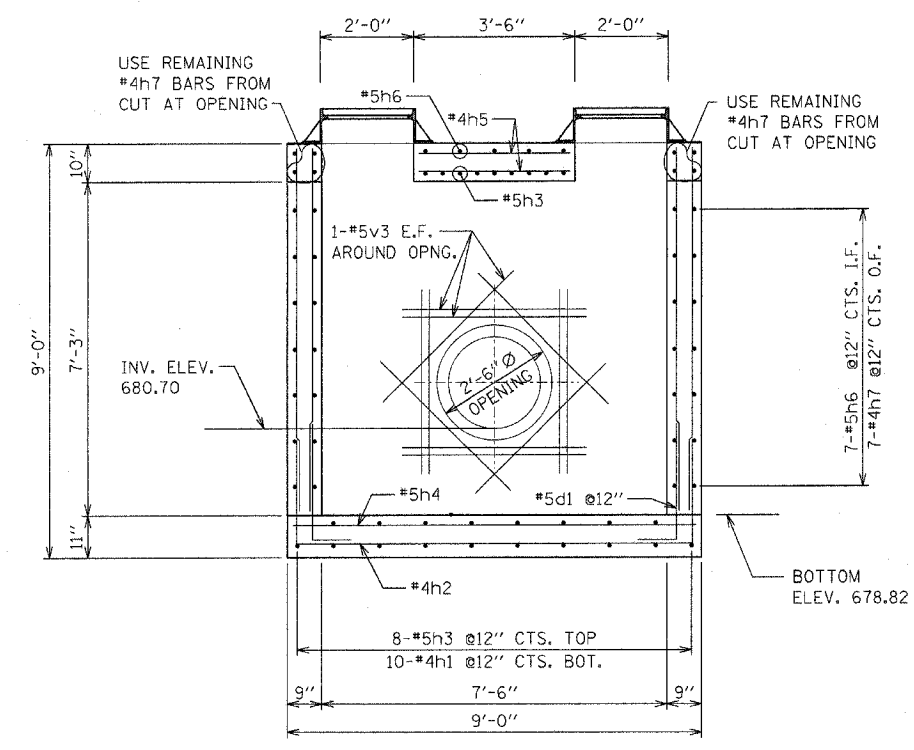
**PLAN**  
SCALE: AS SHOWN



**SECTION A-A**  
SCALE: AS SHOWN



**SECTION B-B**  
SCALE: AS SHOWN



**SECTION C-C**  
SCALE: AS SHOWN

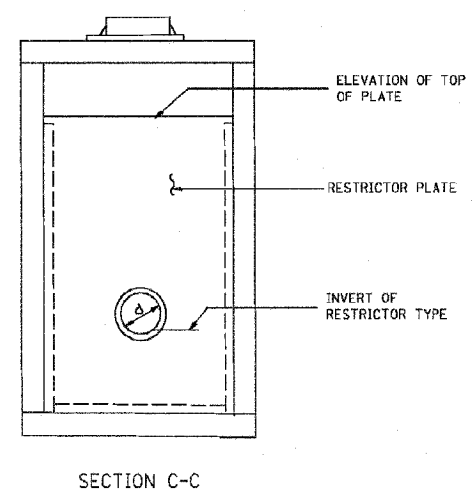
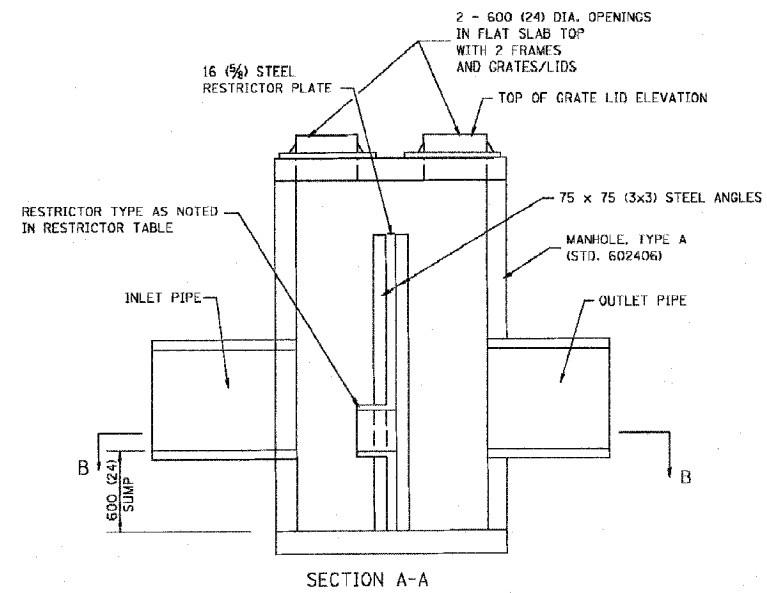
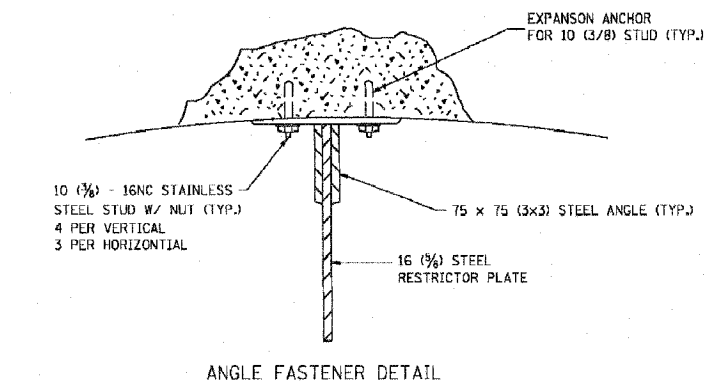
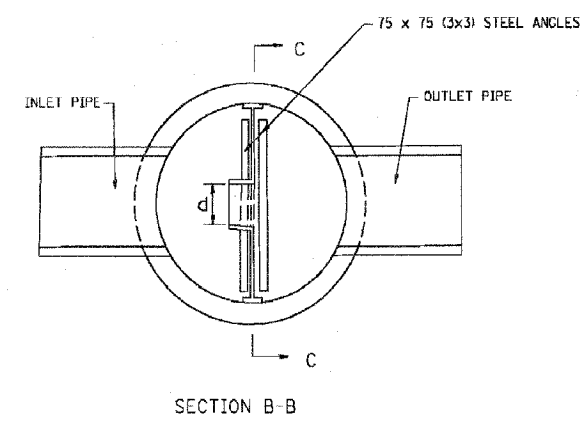
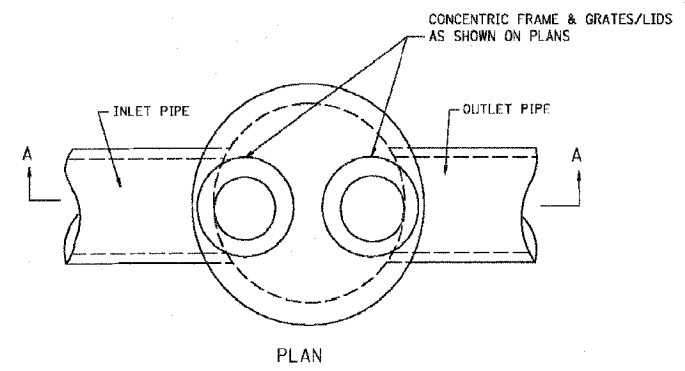
**NOTES:**

CONCRETE SHALL CONFORM TO THE REQUIREMENTS OF CLASS "SI" IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS.  
 REINFORCEMENT BARS SHALL BE EPOXY COATED AND CONFORM TO THE REQUIREMENTS OF ASTM-A615, GRADE 60.

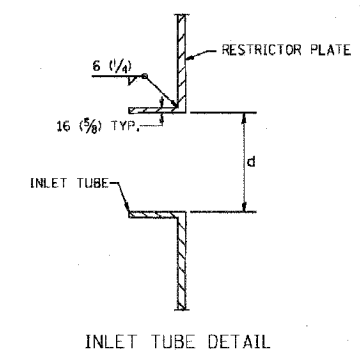
| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**JUNCTION CHAMBER NO.2**  
**STRUCTURE NO. 181L1**  
**REINFORCEMENT DETAILS**  
 SCALE: 1/2" = 1'-0"  
 DATE: 7-07-06  
 DRAWN BY: KWT  
 CHECKED BY: AW

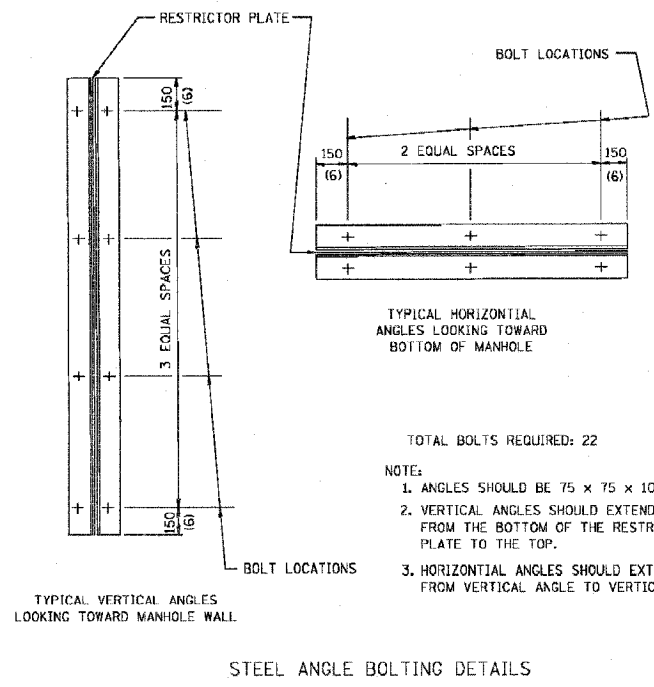
**McDonough Associates Inc.**  
Engineers / Architects



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



| STATION | MANHOLE DIAMETER | FRAME AND GRATE | RESTRICTOR TYPE | INSIDE RESTRICTOR TYPE DIAMETER mm (in.) (c) | INVERT OF RESTRICTOR TYPE | ELEVATION OF TOP OF PLATE OVERFLOW |        |
|---------|------------------|-----------------|-----------------|--|---------------------------|------------------------------------|--------|
| 181L    | 181+42.1         | 6'              | T-1             | 2  | 17 IN                     | 680.68                             | 684.32 |
| 178L1   | 178+11.83        | 6'              | T-1             | 2  | 16 IN                     | 682.60                             | 686.62 |
|         |                  |                 |                 |  |                           |                                    |        |
|         |                  |                 |                 |  |                           |                                    |        |
|         |                  |                 |                 |  |                           |                                    |        |
|         |                  |                 |                 |  |                           |                                    |        |
|         |                  |                 |                 |  |                           |                                    |        |
|         |                  |                 |                 |  |                           |                                    |        |



- TOTAL BOLTS REQUIRED: 22
- NOTE:
- ANGLES SHOULD BE 75 x 75 x 10 (3x3x3/8)
  - VERTICAL ANGLES SHOULD EXTEND FROM THE BOTTOM OF THE RESTRICTOR PLATE TO THE TOP.
  - HORIZONTAL ANGLES SHOULD EXTEND FROM VERTICAL ANGLE TO VERTICAL ANGLE.

| 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 MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.

ILLINOIS DEPARTMENT OF TRANSPORTATION

MANHOLE WITH RESTRICTOR PLATE

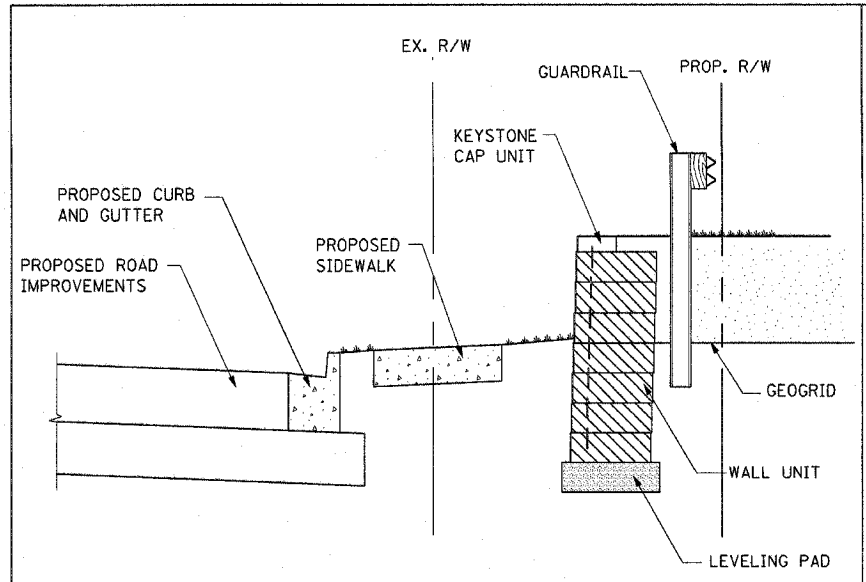
| REVISIONS |          |
|-----------|----------|
| NAME      | DATE     |
| R. SHAH   | 09/09/94 |
| R. SHAH   | 10/25/94 |
| E. GOMEZ  | 08/28/00 |
| M. GOMEZ  | 01/08/01 |

SCALE: NONE

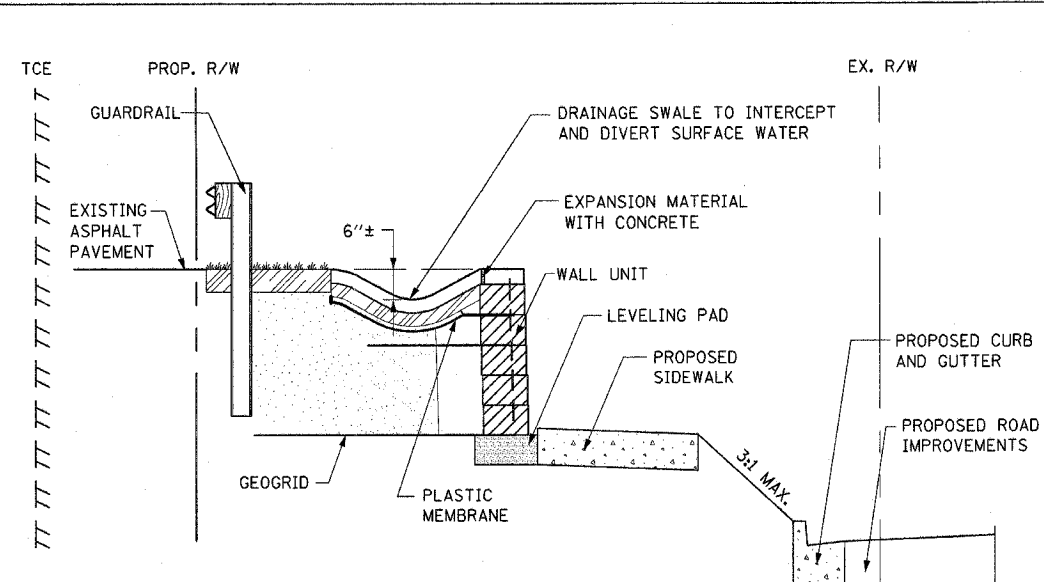
DATE \*\*DATE\*\*

DRAWN BY

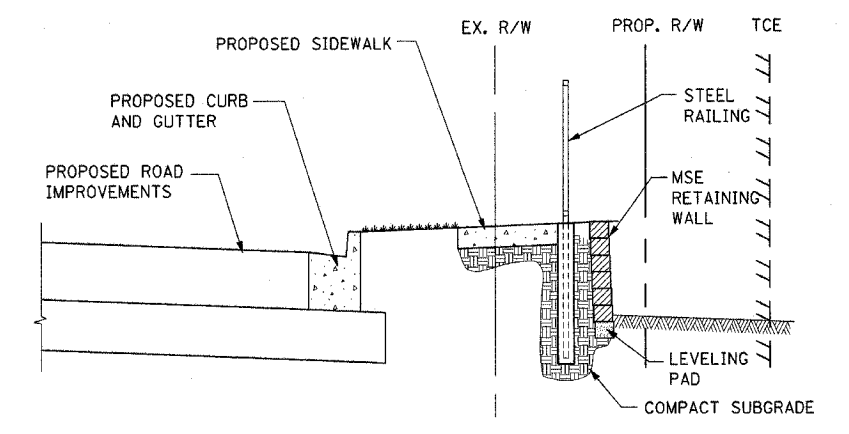
CHECKED BY



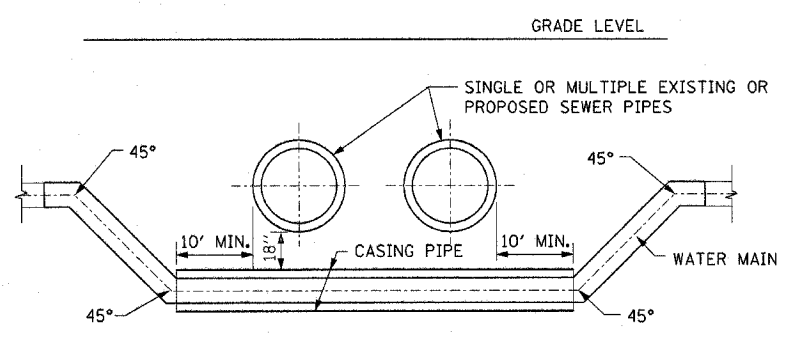
**MSE RETAINING WALL DETAIL**  
**STA. 435+44 TO STA. 436+97 (RT)**



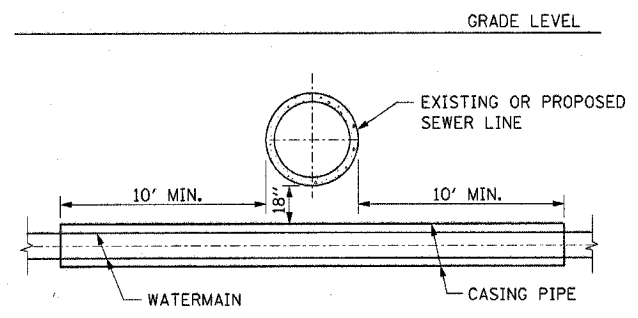
**MSE RETAINING WALL DETAIL**  
**STA. 171+00 TO STA. 172+82 (LT)**



**MSE RETAINING WALL DETAIL**  
**STA. 177+17 TO STA. 181+53 (LT)**  
**STA. 422+30 TO STA. 427+30 (LT)**  
**STA. 429+35 TO STA. 432+05 (LT)**

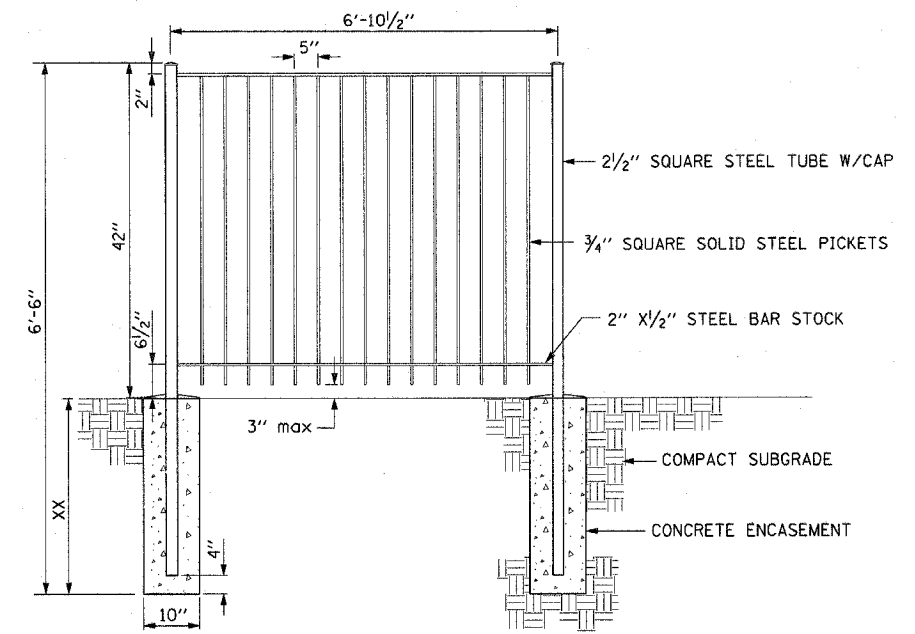


**WATER MAIN CROSSING**  
**TYPE I**



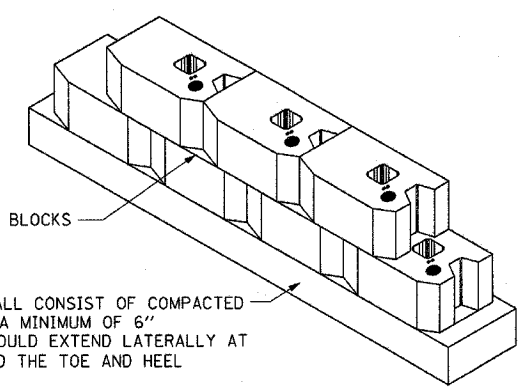
**WATER MAIN CROSSING**  
**TYPE II**

NOTE:  
 1. SEE SHEETS DU-15, DU-16, DU-17 AND DU-18 FOR SIZE OF CASING PIPES AND WATERMAIN.



**STEEL RAILING DETAIL**

NOTE:  
 1. CONTRACTOR SHALL NOT BE ALLOWED TO AUGER OR EXCAVATE GROUND AFTER (MSE) RETAINING WALL IS INSTALLED. FORMS FOR THE FENCE (RAILING) SHALL BE PLACED PRIOR TO INSTALLATION OF GEOGRID REINFORCEMENT.



LEVELING PAD MATERIAL FOR LEVELING PAD SHALL CONSIST OF COMPACTED SAND OR GRAVEL AND SHALL BE A MINIMUM OF 6" IN DEPTH. THE LEVELING PAD SHOULD EXTEND Laterally AT LEAST A DISTANCE OF 6" BEYOND THE TOE AND HEEL OF THE LOWER MOST WALL UNIT.

- NOTES:
1. MAINTAIN POSITIVE DRAINAGE AWAY FROM RETAINING WALL.
  2. VERIFY LOCATIONS IN FIELD.

| REVISIONS |      |
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| NAME      | DATE |
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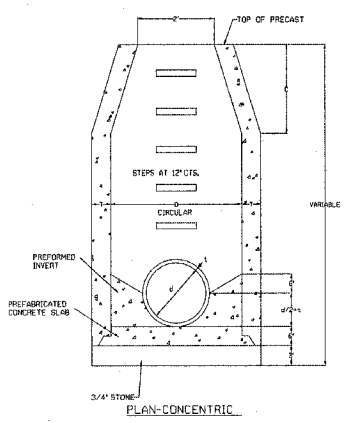
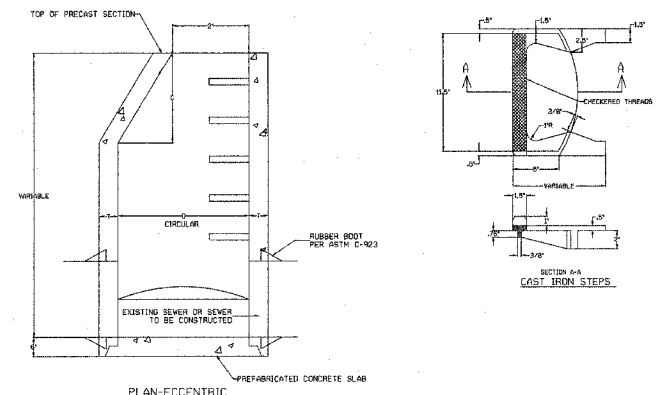
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)

**MISCELLANEOUS DETAILS**

SCALE: N.T.S. DRAWN BY: JPW  
 DATE: 7-07-06 CHECKED BY: OIU

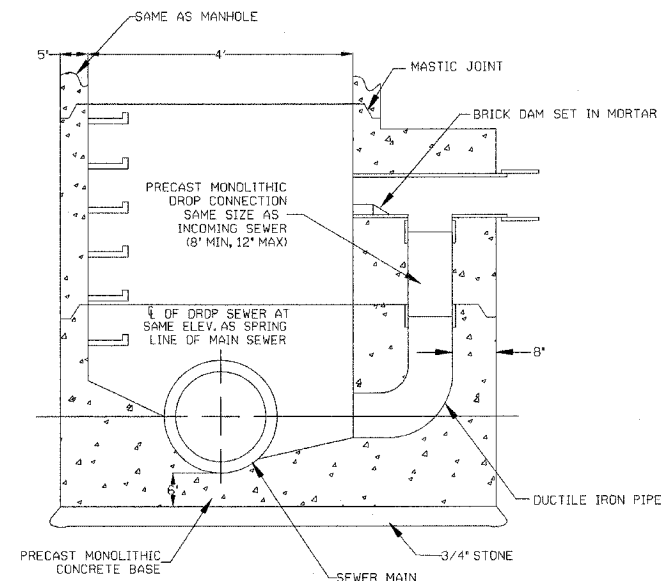
**McDonough Associates Inc.**  
 Engineers / Architects

FILES  
 SDATES  
 STIMES

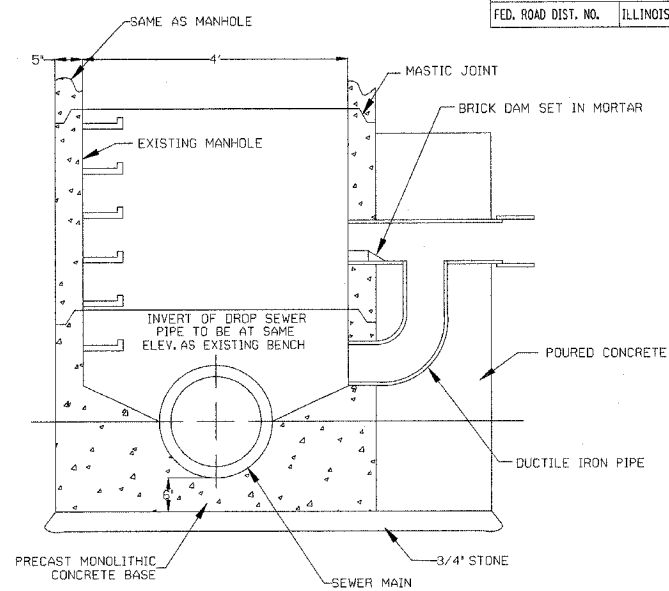


NOTES:  
 DIMENSION 10" FOR PRECAST REINFORCED CONCRETE SECTIONS NOT SHOWN FROM THE CENTERLINE GIVEN TO FIELD & PAVED. THE CAST IRON STEPS AS DETAIL (D) HERE ON ARE TYPICAL. STEPS OF OTHER DESIGN AND MATERIAL THAT WILL CONFORM TO THE MINIMUM REQUIREMENTS OF THE STEPS SHOULD BE USED WHEN APPROVED BY THE ENGINEER.  
 CAST IRON STEPS SHALL BE GRAY IRON CONFORMING TO THE REQUIREMENTS OF ARTICLE 7 OF THE STANDARD SPECIFICATIONS. STEPS SHALL BE EMBEDDED INTO THE WALL A MINIMUM OF 3 INCHES. STEPS SHALL NOT BE EXTENDED ON THE OUTSIDE.

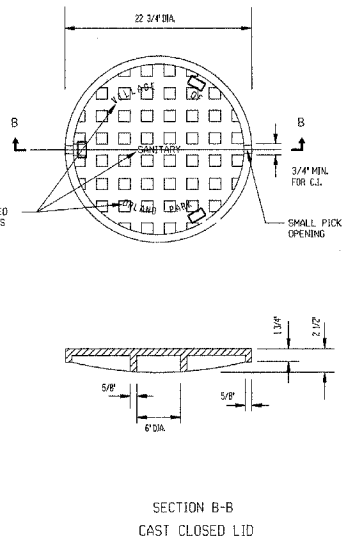
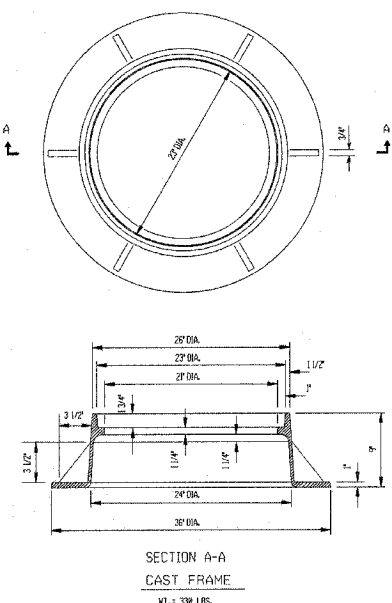
| MANHOLE TYPE A |                               |          |
|----------------|-------------------------------|----------|
| DESIGNED BY    | SANITARY SEWER IMPROVEMENT    | DATE     |
| DRAWN BY       |                               | REVISION |
|                | Village of <b>ORLAND PARK</b> | REVISION |
|                | Engineering Department        | DATE     |
|                |                               | SS-01    |



| DROP MANHOLE |                               |          |
|--------------|-------------------------------|----------|
| DESIGNED BY  | SANITARY SEWER IMPROVEMENT    | DATE     |
| DRAWN BY     |                               | REVISION |
|              | Village of <b>ORLAND PARK</b> | REVISION |
|              | Engineering Department        | DATE     |
|              |                               | SS-02    |

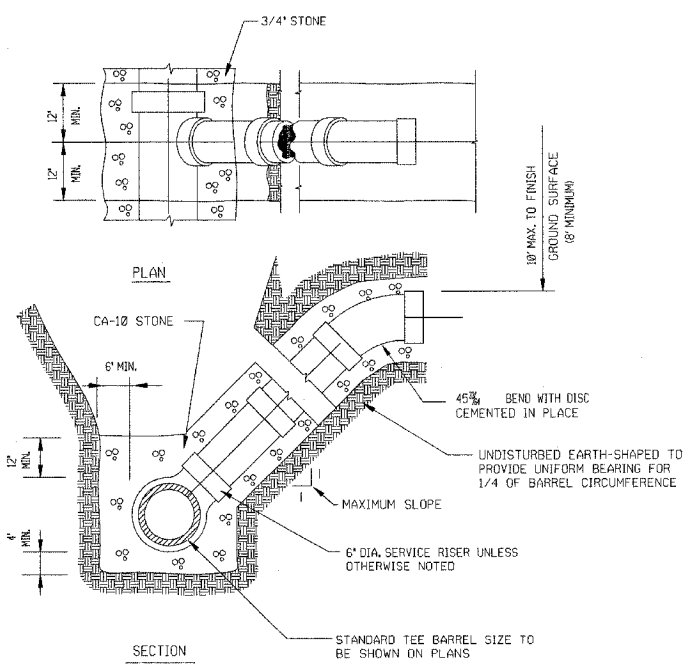


| DROP FOR EXISTING MANHOLE |                               |          |
|---------------------------|-------------------------------|----------|
| DESIGNED BY               | SANITARY SEWER IMPROVEMENT    | DATE     |
| DRAWN BY                  |                               | REVISION |
|                           | Village of <b>ORLAND PARK</b> | REVISION |
|                           | Engineering Department        | DATE     |
|                           |                               | SS-03    |

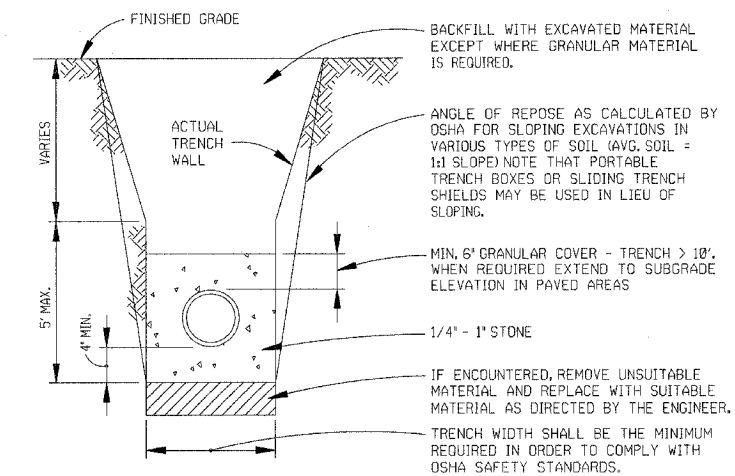


- DUCTILE IRON CASTINGS SHALL BE GRADE 60-40-18 & SHALL BE TESTED IN ACCORDANCE WITH FEDERAL SPECIFICATIONS.
- CASTINGS SHALL BE EAST JORDAN IRON WORKS 105021 FRAME AND 102084 COVER.

| SANITARY MANHOLE FRAME & COVER |                               |          |
|--------------------------------|-------------------------------|----------|
| DESIGNED BY                    | SANITARY SEWER IMPROVEMENT    | DATE     |
| DRAWN BY                       |                               | REVISION |
|                                | Village of <b>ORLAND PARK</b> | REVISION |
|                                | Engineering Department        | DATE     |
|                                |                               | SS-04    |



| SANITARY SERVICE RISER |                               |          |
|------------------------|-------------------------------|----------|
| DESIGNED BY            | SANITARY SEWER IMPROVEMENT    | DATE     |
| DRAWN BY               |                               | REVISION |
|                        | Village of <b>ORLAND PARK</b> | REVISION |
|                        | Engineering Department        | DATE     |
|                        |                               | SS-05    |



ABS AND PVC WHEN USED AS SANITARY SEWER SHALL REQUIRE GRANULAR BEDDING AND COVER AS DETAILED.  
 DIP WHEN USED AS SANITARY SEWER SHALL REQUIRE GRANULAR TO TOP OF PIPE.

| TRENCH SECTION SANITARY SEWER |                               |          |
|-------------------------------|-------------------------------|----------|
| DESIGNED BY                   | SANITARY SEWER IMPROVEMENT    | DATE     |
| DRAWN BY                      |                               | REVISION |
|                               | Village of <b>ORLAND PARK</b> | REVISION |
|                               | Engineering Department        | DATE     |
|                               |                               | SS-06    |

| REVISIONS |      |
|-----------|------|
| NAME      | DATE |
|           |      |
|           |      |
|           |      |
|           |      |
|           |      |

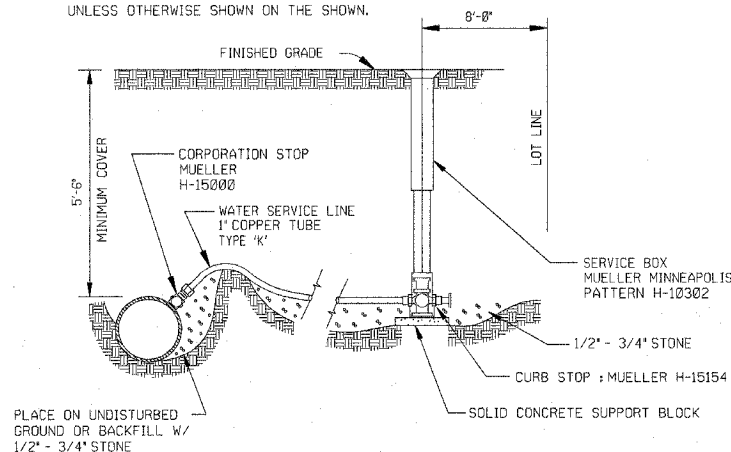
ILLINOIS DEPARTMENT OF TRANSPORTATION  
 US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**VILLAGE SEWER AND WATER DETAILS**  
 SCALE: N/A  
 DATE: 7-07-06  
 DRAWN BY: VOP  
 CHECKED BY: RCH  
**McDonough Associates Inc.**  
 Engineers / Architects



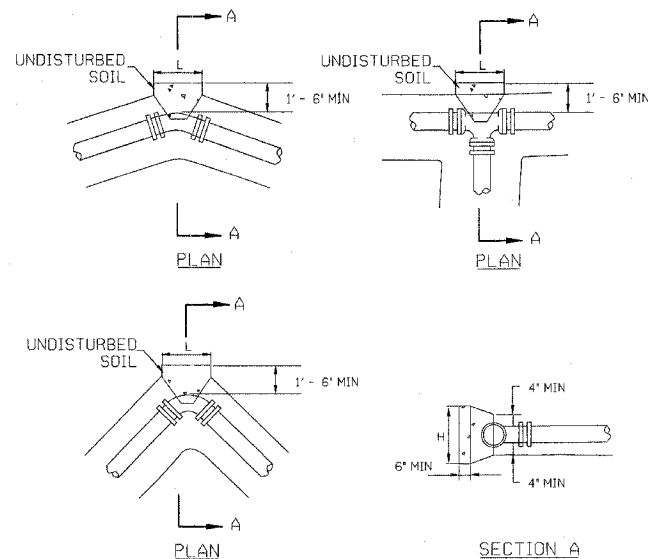
|                     |          |                  |              |           |
|---------------------|----------|------------------|--------------|-----------|
| F.A.P. RTE.         | SECTION  | COUNTY           | TOTAL SHEETS | SHEET NO. |
| 351                 | 537 R-1  | COOK             | 245          | 100       |
| STA.                |          | TO STA.          |              |           |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |              |           |

CONTRACT # 62880

NOTE:  
TERMINATE WATER SERVICE AT CURB STOP UNLESS OTHERWISE SHOWN ON THE SHOWN.



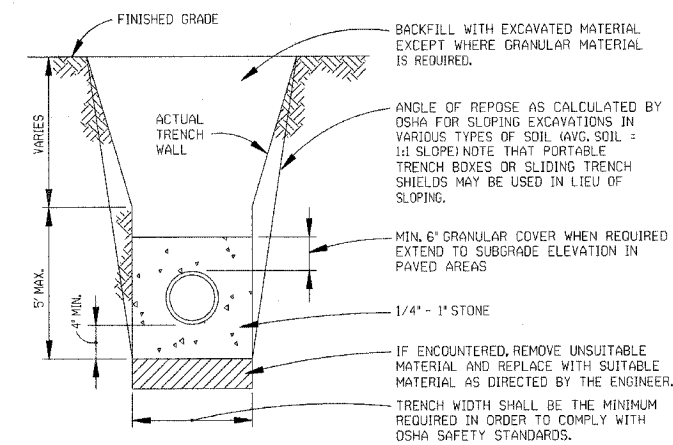
| WATER SERVICE CONNECTION |                        |          |          |
|--------------------------|------------------------|----------|----------|
| DESIGNED BY              | WATER MAIN IMPROVEMENT | DATE     | REVISION |
| DRAWN BY                 |                        |          |          |
| Village of               | ORLAND PARK            | REVISION |          |
| Engineering Department   |                        | WM-0B    |          |



| CONCRETE THRUST BLOCK DIMENSIONS |             |       |             |       |          |       |          |       |            |       |
|----------------------------------|-------------|-------|-------------|-------|----------|-------|----------|-------|------------|-------|
| PIPE SIZE                        | 11-15° BEND |       | 22-30° BEND |       | 45° BEND |       | 90° BEND |       | TEE & PLUG |       |
| DIAMETER                         | H           | L     | H           | L     | H        | L     | H        | L     | H          | L     |
| ≤ 8"                             | 1'-6"       | 1'-6" | 2'-0"       | 2'-6" | 2'-6"    | 3'-0" | 3'-6"    | 4'-0" | 3'-0"      | 3'-6" |
| ≤ 12"                            | 1'-6"       | 2'-0" | 2'-3"       | 2'-6" | 3'-0"    | 3'-6" | 4'-0"    | 4'-6" | 3'-6"      | 4'-0" |
| ≤ 16"                            | 2'-0"       | 2'-0" | 2'-6"       | 3'-0" | 4'-0"    | 4'-6" | 5'-0"    | 6'-0" | 4'-6"      | 5'-6" |

- ALL BLOCKING SHALL BE CONSTRUCTED WITH ROUNDED CL. V CONCRETE AGAINST UNDISTURBED VERTICAL EARTH FACE WITH A MINIMUM WIDTH OF 12 INCHES.
- THRUST BLOCKS TO BE USED AT ALL BENDS IF 1/4 DEGREES OR GREATER.
- MECHANICAL JOINT RETAINER BLENDS MAY BE USED AS AN ALTERNATIVE TO CONCRETE THRUST BLOCK INSTALLATION WHEN APPROVED BY THE VILLAGE ENGINEER.
- TEST PRESSURE 150 PSL.

| CONCRETE THRUST BLOCK DETAILS |                        |          |          |
|-------------------------------|------------------------|----------|----------|
| DESIGNED BY                   | WATER MAIN IMPROVEMENT | DATE     | REVISION |
| DRAWN BY                      |                        |          |          |
| Village of                    | ORLAND PARK            | REVISION |          |
| Engineering Department        |                        | WM-10    |          |



DIP AND PVC WHEN USED AS WATER MAIN SHALL NOT REQUIRE GRANULAR BEDDING OR COVER. PROVIDE UNIFORM AND CONTINUOUS SUPPORT OF PIPE BARREL BETWEEN BELL HOLES

| TRENCH SECTION (WATER MAIN) |                        |          |          |
|-----------------------------|------------------------|----------|----------|
| DESIGNED BY                 | WATER MAIN IMPROVEMENT | DATE     | REVISION |
| DRAWN BY                    |                        |          |          |
| Village of                  | ORLAND PARK            | REVISION |          |
| Engineering Department      |                        | WM-11    |          |

| REVISIONS |      |
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| NAME      | DATE |
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ILLINOIS DEPARTMENT OF TRANSPORTATION  
US RTE 6 (159TH ST) AT US RTE 45 (LAGRANGE RD)  
**VILLAGE SEWER AND WATER DETAILS**  
SCALE: N/A  
DATE: 7-07-06  
DRAWN BY: VOP  
CHECKED BY: RCH

**McDonough Associates Inc.**  
Engineers / Architects

FILES  
DATES  
STIMES