

| F.A.U. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|----------------|--------|--------------|-----------|
| 0203 | 03-00052-00-PV | LAKE | 78 | 1 |

CONTRACT NUMBER: 63002

INDEX OF SHEETS
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN VILLAGE OF GRAYSLAKE

DESIGN DESIGNATION

SHOREWOOD ROAD: 4000 (2030) (FD-20)
SHOREWOOD ROAD ADT (2030) 4,000 DESIGN SPEED 30 MPH POSTED SPEED 30 MPH

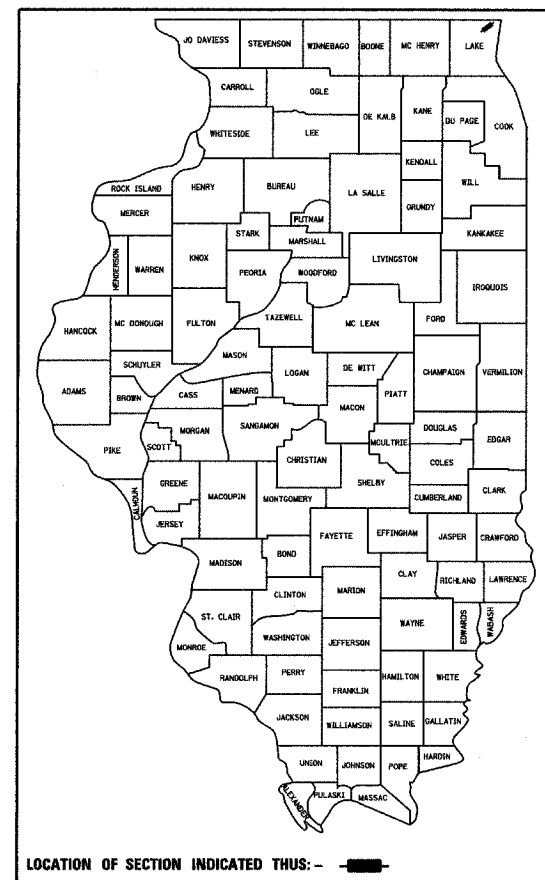
DESCRIPTION OF PROJECT

THIS IMPROVEMENT CONSISTS OF EARTH EXCAVATION, ROADWAY RECONSTRUCTION AND WIDENING, CONSTRUCTION OF STORM SEWERS AND ALL INCIDENTAL AND COLLATERAL WORK NECESSARY TO COMPLETE THE IMPROVEMENTS AS SHOWN HEREIN AND AS DESCRIBED IN THE SPECIAL PROVISIONS.

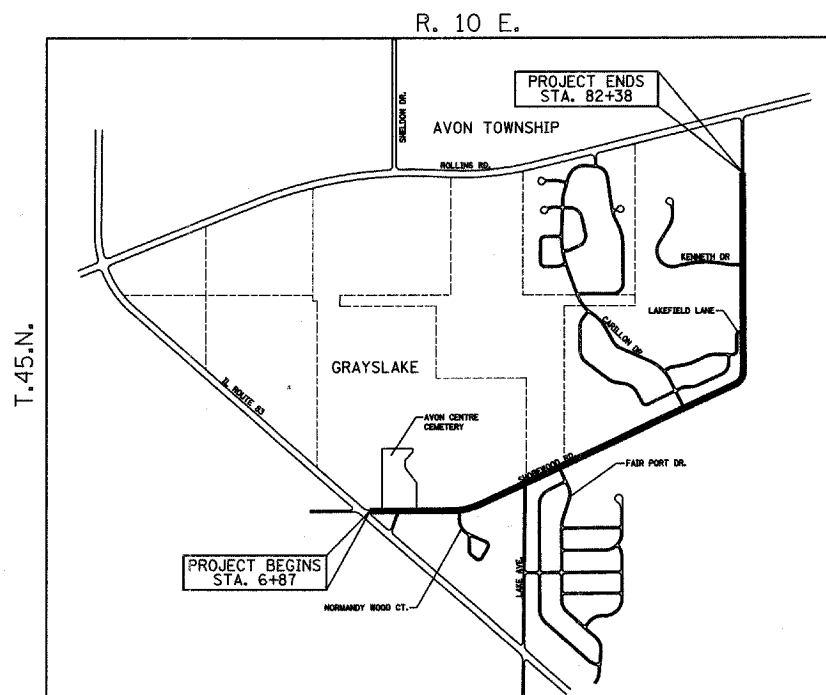
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION DIVISION OF HIGHWAYS

PLANS FOR PROPOSED FEDERAL AID HIGHWAY

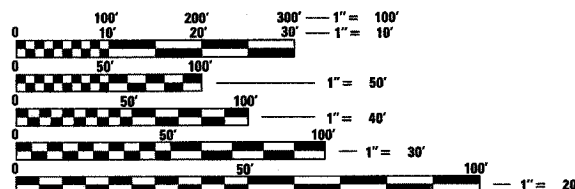
**F.A.U. ROUTE 0203 (SHOREWOOD ROAD)
SECTION 03-00052-00-PV
PROJECT NO. M-8003(637)
FROM F.A.P. ROUTE 866 (IL ROUTE 83) TO
F.A.U. ROUTE 0181 (ROLLINS ROAD)
RECONSTRUCTION AND WIDENING
VILLAGE OF GRAYSLAKE
LAKE COUNTY
C-91-342-06**



LOCATION OF SECTION INDICATED THIS: - [Symbol] -



N
LOCATION MAP
NOT TO SCALE



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 OR 811

CONTRACT NO. 63002

AVON TOWNSHIP
LOCATION MAP
GROSS & NET PROJECT LENGTHS = 7,545 FT. OR 1.429 MILES

VILLAGE OF GRAYSLAKE
APPROVED: 1/31 20 08
[Signature]
VILLAGE MANAGER

AVON TOWNSHIP
APPROVED: 1-8 20 08
[Signature]
ROAD COMMISSIONER

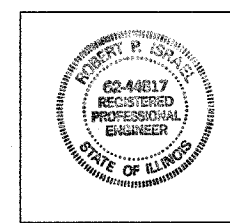
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
PASSED: MAY 21 20 08
[Signature] CHRISTOPHER HOLT
REGION ONE ENGINEER OF LOCAL ROADS AND STREETS
RELEASING FOR BID
BASED ON LIMITED REVIEW MAY 21, 20 08
[Signature] DEBRA M. O'NEILL
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**



ASSOCIATE FIELD ENGINEER: KEVIN STALLWORTH (847) 705-4169
CONSULTANT ENGINEER: MACTEC Engineering and Consulting, Inc.

MACTEC
8745 W. Higgins Road
Suite 300
Chicago, Illinois 60631
Phone (773) 693-6030
Fax (773) 693-6093
IL License 184-001138
Expires 04/30/09



CONSULTING ENGINEERS
[Signature]
REGISTERED P.E. STATE OF ILLINOIS
DATE 11/30/08
11/30/09
EXPIRATION DATE

| | | | | |
|-----------------------|----------------|---------------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | D3-00052-00-PV | LAKE | 78 | 3 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |

| ITEM# | IDOT PAY ITEM CODE* | PAY ITEM | UNIT | TOTAL QUANTITY | STP eligible Participation | | VILLAGE SPONSORED NON-PARTICIPATING |
|-------|---------------------|---|---------------------------------|----------------|----------------------------|-----------------|-------------------------------------|
| | | | | | Traffic Signal Y031-1F | Roadway I000-2A | |
| 1 | 20100110 | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | UNIT | 1,750 | | 1,750 | |
| 2 | 20100210 | TREE REMOVAL (OVER 15 UNITS DIAMETER) | UNIT | 628 | | 628 | |
| 3 | 20101000 | TEMPORARY FENCE | FOOT | 3,690 | | 3,690 | |
| 4 | 20101100 | TREE TRUNK PROTECTION | EACH | 43 | | 43 | |
| 5 | 20101200 | TREE ROOT PRUNING | EACH | 62 | | 62 | |
| 6 | 20200100 | EARTH EXCAVATION | CU YD | 3,595 | | 3,595 | |
| 7 | 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS | CU YD | 5,431 | | 5,431 | |
| 8 | 20400800 | FURNISHED EXCAVATION | CU YD | 5,108 | | 5,108 | |
| 9 | 20700220 | POROUS GRANULAR EMBANKMENT, SUBGRADE | CU YD | 398 | | 398 | |
| 10 | 20800150 | TRENCH BACKFILL | CU YD | 3,530 | | 3,530 | |
| * | 11 | 21101615 | TOPSOIL FURNISH AND PLACE , 4" | SQ YD | 24,153 | 24,153 | |
| * | 12 | 25000210 | SEEDING, CLASS 2A | ACRE | 0.25 | 0.25 | |
| * | 13 | 25000312 | SEEDING, CLASS 4A | ACRE | 2.20 | 2.20 | |
| * | 14 | 25000314 | SEEDING, CLASS 4B | ACRE | 0.44 | 0.44 | |
| * | 15 | 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 260 | 260 | |
| * | 16 | 25000500 | PHOSPHOROUS FERTILIZER NUTRIENT | POUND | 260 | 260 | |
| * | 17 | 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 260 | 260 | |
| * | 18 | 25100630 | EROSION CONTROL BLANKET | SQ YD | 13,988 | 13,988 | |
| * | 19 | 25200110 | SODDING SALT TOLERANT | SQ YD | 10,165 | 10,165 | |
| 20 | 28000510 | INLET FILTERS | EACH | 97 | | 97 | |
| 21 | 28100101 | STONE RIPRAP, CLASS A1 | SQ YD | 77 | | 77 | |
| 22 | 28200200 | FILTER FABRIC | SQ YD | 83 | | 83 | |
| 23 | 35101800 | AGGREGATE BASE COURSE, TYPE B 6" | SQ YD | 550 | | 550 | |
| 24 | 35102000 | AGGREGATE BASE COURSE, TYPE B 8" | SQ YD | 548 | | 548 | |
| 25 | 35102600 | AGGREGATE BASE COURSE, TYPE B, 14" | SQ YD | 895 | | 895 | |
| 26 | 40600100 | BITUMINOUS MATERIALS (PRIME COAT) | GAL | 2,880 | | 2,880 | |
| 27 | 40600300 | AGGREGATE (PRIME COAT) | TON | 43 | | 43 | |
| 28 | 40600982 | HOT-MIX ASPHALT REMOVAL - BUTT JOINT | SQ YD | 292 | | 292 | |
| 29 | 40603310 | HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 | TON | 34 | | 34 | |
| 30 | 40701926 | HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 12 1/4" | SQ YD | 28,792 | | 28,792 | |
| 31 | 42001300 | PROTECTIVE COAT | SQ YD | 5,255 | | 5,255 | |
| 32 | 42400800 | DETECTABLE WARNINGS | SQ FT | 66 | | 66 | |
| 33 | 44000100 | PAVEMENT REMOVAL | SQ YD | 20,618 | | 20,618 | |
| 34 | 44000200 | DRIVEWAY PAVEMENT REMOVAL | SQ YD | 955 | | 955 | |
| 35 | 44000300 | CURB REMOVAL | FOOT | 32 | | 32 | |
| 36 | 44000500 | COMBINATION CURB AND GUTTER REMOVAL | FOOT | 617 | | 617 | |
| 37 | 44000600 | SIDEWALK REMOVAL | SQ FT | 231 | | 231 | |
| 38 | 44000900 | BITUMINOUS CONCRETE REMOVAL | SQ YD | 529 | | 529 | |
| 39 | 48203009 | HOT-MIX ASPHALT SHOULDERS, 3" | SQ YD | 97 | | 97 | |
| 40 | 54213657 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 12" | EACH | 8 | | 8 | |
| 41 | 54213660 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 15" | EACH | 4 | | 4 | |
| 42 | 54213666 | PRECAST REINFORCED CONCRETE FLARED END SECTIONS 21" | EACH | 1 | | 1 | |
| 43 | 550A0050 | STORM SEWERS, CLASS A, TYPE 1 12" | FOOT | 4,488 | | 4,488 | |
| 44 | 550A0070 | STORM SEWERS, CLASS A, TYPE 1 15" | FOOT | 1,238 | | 1,238 | |
| 45 | 550A0090 | STORM SEWERS, CLASS A, TYPE 1 18" | FOOT | 1,634 | | 1,634 | |
| 46 | 550A0110 | STORM SEWERS, CLASS A, TYPE 1 21" | FOOT | 412 | | 412 | |
| 47 | 55100100 | STORM SEWER REMOVAL 4" | FOOT | 1,362 | | 1,362 | |
| 48 | 55100200 | STORM SEWER REMOVAL 6" | FOOT | 1,749 | | 1,749 | |
| 49 | 55100300 | STORM SEWER REMOVAL 8" | FOOT | 123 | | 123 | |
| 50 | 55100500 | STORM SEWER REMOVAL 12" | FOOT | 1,763 | | 1,763 | |
| 51 | 60109510 | PIPE UNDERDRAINS, FABRIC LINED TRENCH 4" | FOOT | 1,800 | | 1,800 | |
| 52 | 60201340 | CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE | EACH | 16 | | 16 | |
| 53 | 60214400 | RESTRICTED DEPTH CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 8 GRATE | EACH | 5 | | 5 | |
| 54 | 60214714 | RESTRICTED DEPTH CATCH BASINS, TYPE A, 4'-DIAMETER, TYPE 24 FRAME AND GRATE | EACH | 25 | | 25 | |
| 55 | 60218400 | MANHOLES, TYPE A, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 14 | | 14 | |
| 56 | 60224600 | RESTRICTED DEPTH MANHOLES, 4'-DIAMETER, TYPE 1 FRAME, CLOSED LID | EACH | 14 | | 14 | |
| 57 | 60236200 | INLETS, TYPE A, TYPE 8 GRATE | EACH | 11 | | 11 | |
| 58 | 60237470 | INLETS, TYPE A, TYPE 24 FRAME AND GRATE | EACH | 25 | | 25 | |
| 59 | 60500040 | REMOVING MANHOLES | EACH | 1 | | 1 | |
| 60 | 60500050 | REMOVING CATCH BASINS | EACH | 1 | | 1 | |

* INDICATES SPECIALTY ITEM

PLAN
DATE
BY
SUBMITTED
PLOTTED
NOTED
NO. 11/06/07

PROFILE
DATE
BY
SUBMITTED
PLOTTED
NOTED
NO. 11/06/07

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

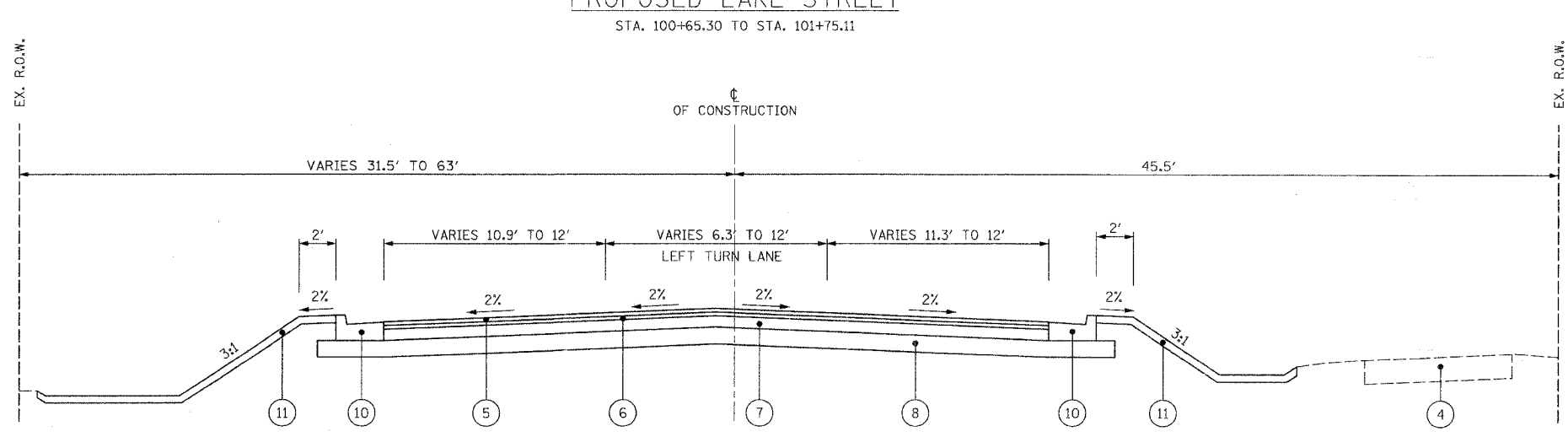
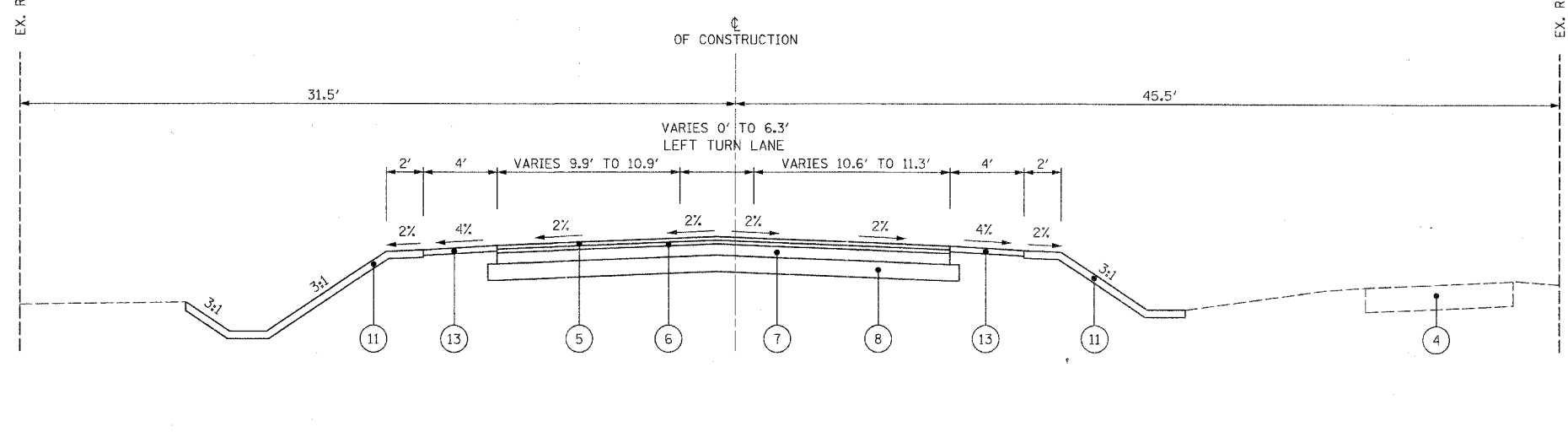
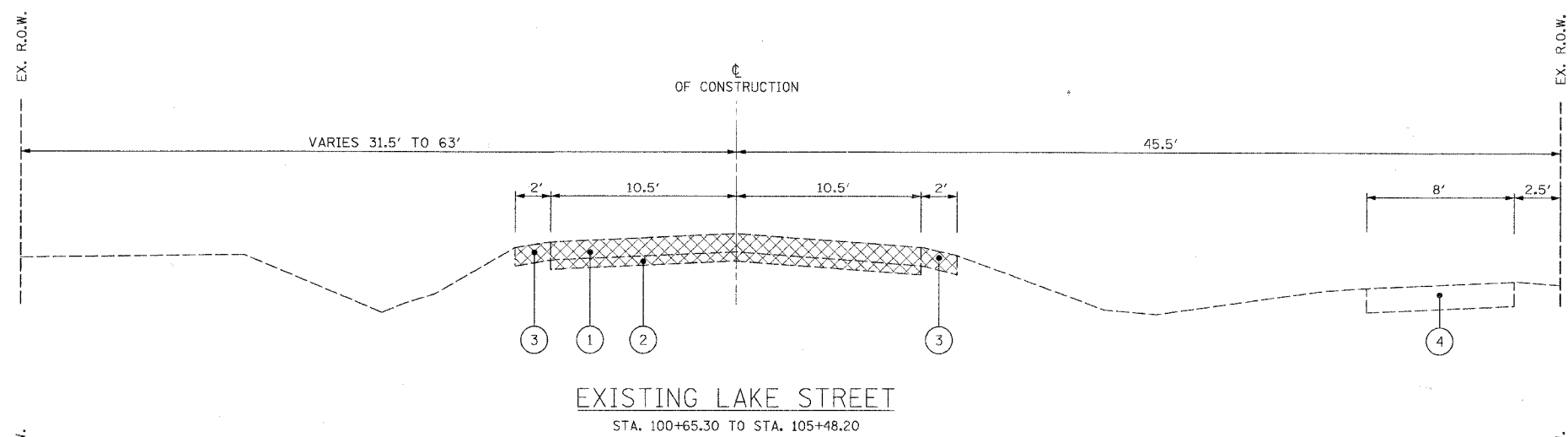
VILLAGE OF GRAYSLAKE
SHOREWOOD ROAD
IL ROUTE 83 TO ROLLINS ROAD

SUMMARY OF QUANTITIES

SCALE:
DATE: 11/06/07

DESIGNED BY: MTK
DRAWN BY: MTK/BB/CP
CHECKED BY: RPI

| | | | | |
|-----------------------|----------------|----------|------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 76 | 7 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |
| CONTRACT NUMBER 63002 | | | | |



- ### LEGEND
- ① EXIST. BITUMINOUS PAVEMENT +/- 6"
 - ② EXIST. SUB-BASE +/- 6"
 - ③ EXIST. AGGREGATE SHOULDER
 - ④ EXIST. BITUMINOUS PATH
 - ⑤ HMA SURF. CRSE., MIX "C", N50, 2"
 - ⑥ HMA BINDER CRSE., IL-19.0, N50, 2 1/4" → HOT-MIX ASPHALT PAVEMENT, (FULL-DEPTH), 12 1/4"
 - ⑦ HMA BASE CRSE., 8"
 - ⑧ PROP. AGGREGATE SUBGRADE, 12"
 - ⑨ PROP. AGGREGATE BASE COURSE, TYPE B, 14"
 - ⑩ PROP. COMBINATION CONCRETE CURB & GUTTER, B-6.24
 - ⑪ PROP. SODDING, SALT TOLERANT
PROP. SEEDING, CLASS 2A
PROP. SEEDING, CLASS 4A
PROP. SEEDING, CLASS 4B
TOPSOIL FURNISH AND PLACE, 4"
 - ⑫ PROP. EXPANDED POLYSTYRENE (EPS) EMBANKMENT FILL, 48"
 - ⑬ HMA SHOULDER, 3"
 - ⊞ EXIST. PAVEMENT STRUCTURE TO BE REMOVED

ANTICIPATED SUBGRADE REMEDIAL TREATMENT

| TREATMENT | DEPTH | LIMITS |
|---|-------|--------------------------|
| PROP. POROUS GRANULAR EMBANKMENT, SUBGRADE | 12" | STA. 35+50 TO STA. 38+50 |
| PROP. EXPANDED POLYSTYRENE (EPS) EMBANKMENT | 48" | STA. 20+25 TO STA. 22+50 |

NOTE: 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 UNSUITABLE SOILS SHOULD BE TESTED WITH A STATIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.03 AND THE UNDERCUT GUIDELINES IN THE IDOT SUBGRADE STABILITY MANUAL. IF UNSUITABLE AND/OR UNSUITABLE MATERIAL IS ENCOUNTERED, THE SOIL SHALL BE REMOVED AND REPLACED WITH PGES OR EMBANKMENT AS DETERMINED BY THE GEOTECHNICAL ENGINEER. IF UNSUITABLE AND/OR UNSUITABLE MATERIAL IS NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.

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

VILLAGE OF GRAYSLAKE
SHOREWOOD ROAD
IL ROUTE 83 TO ROLLINS ROAD

TYPICAL SECTIONS

SCALE: _____
DATE: 11/06/07

DESIGNED BY: MTK
DRAWN BY: MTK/BB/GP
CHECKED BY: RPI

| | |
|-----------|--|
| DATE | |
| BY | |
| REVISIONS | |
| PLANNED | |
| ALIGNED | |
| CHECKED | |
| NO. _____ | |

| | |
|-----------|--|
| DATE | |
| BY | |
| REVISIONS | |
| PROFILING | |
| GRADES | |
| CHECKED | |
| STRUCTURE | |
| NOTATIONS | |
| NO. _____ | |

| | | | | |
|-----------------------|----------------|----------|------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 8 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |
| CONTRACT NUMBER 63002 | | | | |

| EARTHWORK SCHEDULE | | | | |
|--------------------|------------------|-------------------|--|---|
| LOCATION | EARTH EXCAVATION | EMBANKMENT NEEDED | EMBANKMENT NEEDED ADJUSTED FOR SHRINKAGE (15%) | EARTHWORK BALANCE WASTE (+) OR SHORTAGE (-) |
| | CUBIC YARD | CUBIC YARD | CUBIC YARD | CUBIC YARD |
| STAGE 1 | 6558 | 1560 | 1835 | + 4723 |
| STAGE 2 | 3610 | 604 | 710 | + 2900 |
| STAGE 3 | 2656 | 289 | 339 | + 2317 |

| PIPE UNDERDRAIN SCHEDULE | | | | |
|--------------------------|-----------|----------------------|----------------|-----------|
| BEGIN UNDERDRAIN | | SAG LOCATION | END UNDERDRAIN | |
| LT | RT | | LT | RT |
| 7+50.00 | 7+50.00 | 8+00.00 | 8+50.00 | 8+50.00 |
| 22+55.00 | 22+55.00 | 23+05.00 | 23+55.00 | 23+55.00 |
| 34+00.00 | 34+00.00 | 34+50.00 | 35+00.00 | 35+00.00 |
| 39+10.00 | 39+10.00 | 39+60.00 | 40+10.00 | 40+10.00 |
| 49+10.00 | 49+10.00 | 49+60.00 | 50+10.00 | 50+10.00 |
| 55+40.00 | 55+40.00 | 55+90.00 | 56+40.00 | 56+40.00 |
| 69+70.00 | 69+70.00 | 70+20.00 | 70+70.00 | 70+70.00 |
| 78+75.00 | 78+75.00 | 79+25.00 | 79+75.00 | 79+75.00 |
| 104+25.00 | 104+25.00 | 104+75.00 (LAKE ST.) | 105+25.00 | 105+25.00 |

| | | |
|------|----------|------|
| PLAN | SURVEYED | DATE |
| | PLOTTED | |
| | BY | |
| | NOTED | |
| | BY | |
| | NOTED | |
| | BY | |
| | NOTED | |
| | BY | |
| | NOTED | |

| | | |
|---------|----------|------|
| PROFILE | SURVEYED | DATE |
| | PLOTTED | |
| | BY | |
| | NOTED | |
| | BY | |
| | NOTED | |
| | BY | |
| | NOTED | |
| | BY | |
| | NOTED | |

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

VILLAGE OF GRAYSLAKE
SHOREWOOD ROAD
IL ROUTE 83 TO ROLLINS ROAD

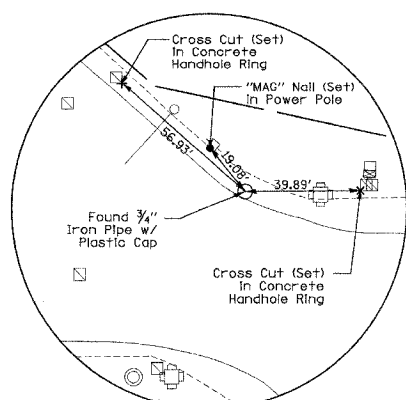
SCHEDULE OF QUANTITIES

SCALE:
DATE: 11/06/07

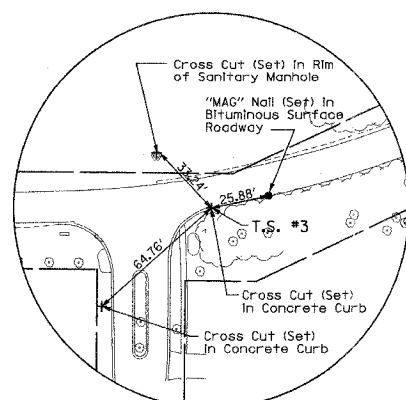
DESIGNED BY: MTK
DRAWN BY: MTK/BB/GP
CHECKED BY: RPI

DATE: _____
 BY: _____
 PLAN NO. _____
 DATE: _____
 BY: _____
 PROFILE NO. _____
 DATE: _____
 BY: _____

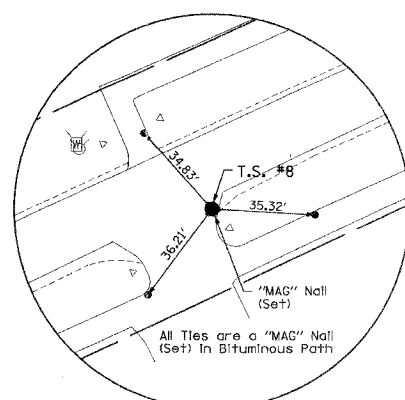
DATE: _____
 BY: _____
 PROFILE NO. _____
 DATE: _____
 BY: _____



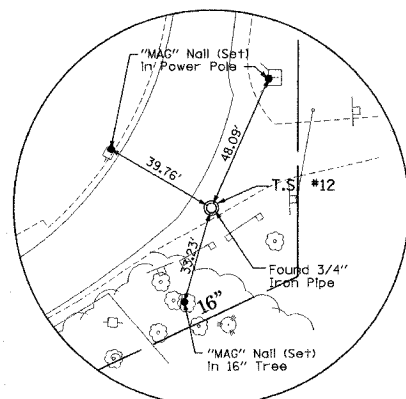
TRAVERSE STATION #25
 STA. 6+62.54
 N 3453.3642
 E 10340.5302



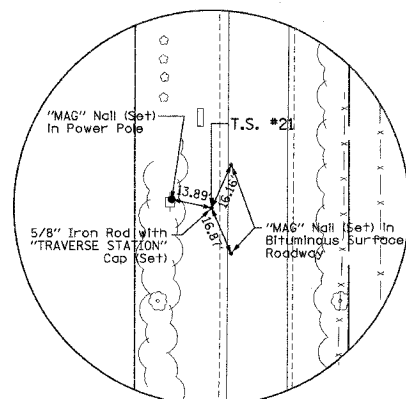
TRAVERSE STATION #3
 STA. 19+07.96
 N 3425.5413
 E 11584.6564



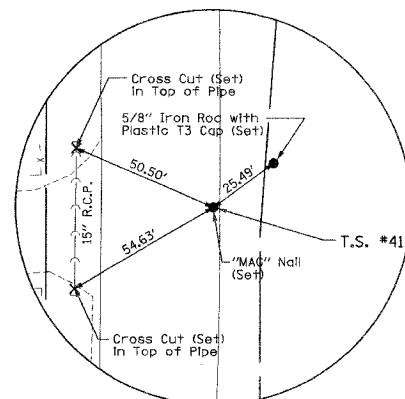
TRAVERSE STATION #8
 STA. 40+17.05
 N 4287.9065
 E 13505.6766



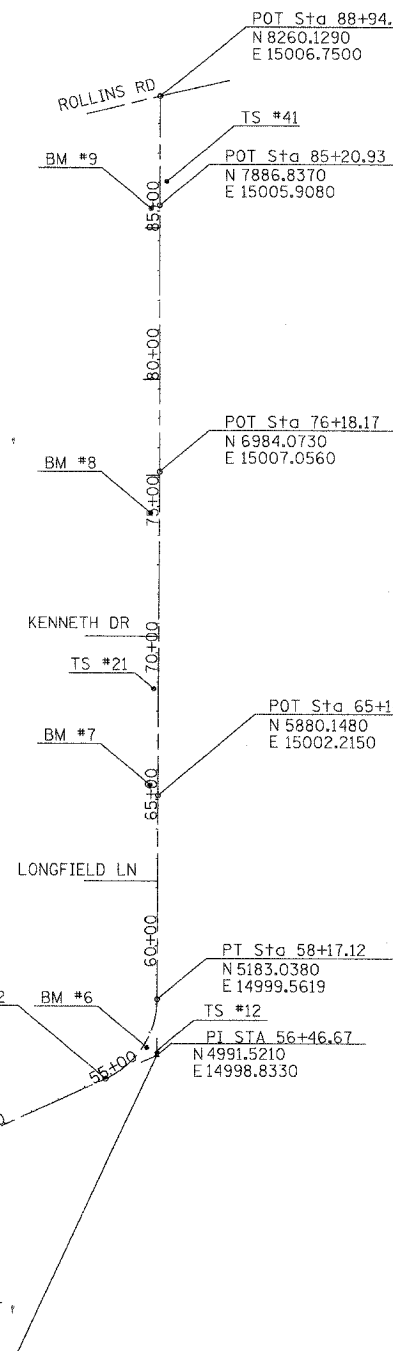
TRAVERSE STATION #12
 STA. 56+53.23
 N 4999.9766
 E 14999.9296



TRAVERSE STATION #21
 STA. 68+77.48
 N 6243.4593
 E 14988.4111



TRAVERSE STATION #41
 STA. 86+02.88
 N 7968.7243
 E 15030.0937



| BENCHMARK | ELEVATION | DESCRIPTION |
|-----------|-----------|---|
| BM #1 | 804.92 | FOUND RAILROAD SPIKE IN POWER POLE IN THE NORTHEAST QUADRANT OF THE INTERSECTION OF ILLINOIS ROUTE 83 AND SHOREWOOD ROAD |
| BM #2 | 788.42 | RAILROAD SPIKE SET IN POWER POLE APPROXIMATELY 95 FEET WEST OF THE WEST R.O.W. LINE OF NORMANDY WOODS COURT AND APPROXIMATELY 12 FEET NORTH OF THE SOUTH R.O.W. LINE OF SHOREWOOD ROAD |
| BM #3 | 783.22 | RAILROAD SPIKE SET IN WOOD POLE OF WARNING SIREN |
| BM #4 | 781.45 | CROSS CUT SET IN SOUTH FLANGE BOLT OF FIRE HYDRANT |
| BM #5 | 785.03 | RAILROAD SPIKE SET IN POWER POLE APPROXIMATELY 58 FEET WEST OF THE WEST R.O.W. LINE OF CARILLON DRIVE AND APPROXIMATELY 12 FEET SOUTH OF THE NORTH R.O.W. LINE OF DRURY LANE |
| BM #6 | 783.30 | RAILROAD SPIKE SET IN POWER POLE |
| BM #7 | 779.83 | RAILROAD SPIKE SET IN POWER POLE |
| BM #8 | 775.70 | RAILROAD SPIKE SET IN POWER POLE APPROXIMATELY 785 FEET NORTH OF THE NORTH R.O.W. LINE OF COMMONWEALTH EDISON COMPANY AND APPROXIMATELY 6 FEET EAST OF THE WEST R.O.W. LINE OF DRURY LANE |
| BM #9 | 774.10 | RAILROAD SPIKE SET IN POWER POLE APPROXIMATELY 327 FEET SOUTH OF THE SOUTH R.O.W. LINE OF ROLLINS ROAD AND APPROXIMATELY 5 FEET EAST OF THE WEST R.O.W. LINE OF DRURY LANE |

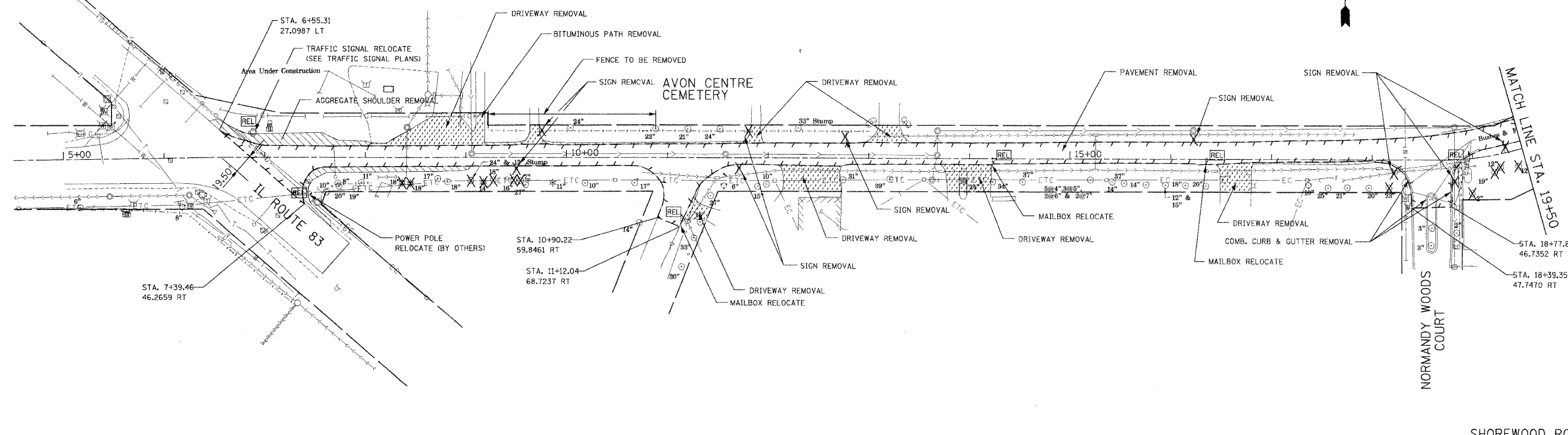
| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
| | |
| | |
| | |
| | |

VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 ALIGNMENT, TIES &
 BENCHMARKS

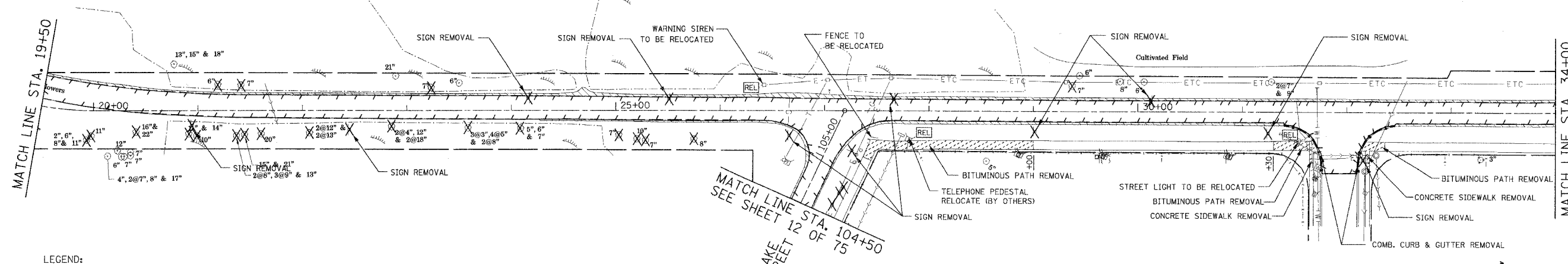
SCALE: 1" = 300'
 DATE: 11/06/07

DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY: RPI

| | | | | |
|-----------------------|---------------|----------|------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 03-00052-00-PV | LAKE | ILLINOIS | 78 | 10 |
| STA. 6+87 | TO STA. 34+00 | | | |
| FED. ROAD DIST. NO. | ILLINOIS | | FED. AID PROJECT | |
| CONTRACT NUMBER 63002 | | | | |



SHOREWOOD ROAD



SHOREWOOD ROAD

| | |
|----------|------|
| PLAN | DATE |
| SURVEYED | |
| PLOTTED | |
| NOTED | |
| NO. | |

| | |
|----------|------|
| PROFILE | DATE |
| SURVEYED | |
| PLOTTED | |
| NOTED | |
| NO. | |

- LEGEND:
- PAVEMENT REMOVAL
 - AGGREGATE SHOULDER REMOVAL
 - BIKE PATH, SIDEWALK & DRIVEWAY PAVEMENT REMOVAL, AS NOTED
 - RELOCATE ITEM, AS NOTED
 - TREE REMOVAL (XX = DIA.)
 - ITEM REMOVAL, AS NOTED

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

VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 REMOVAL PLAN

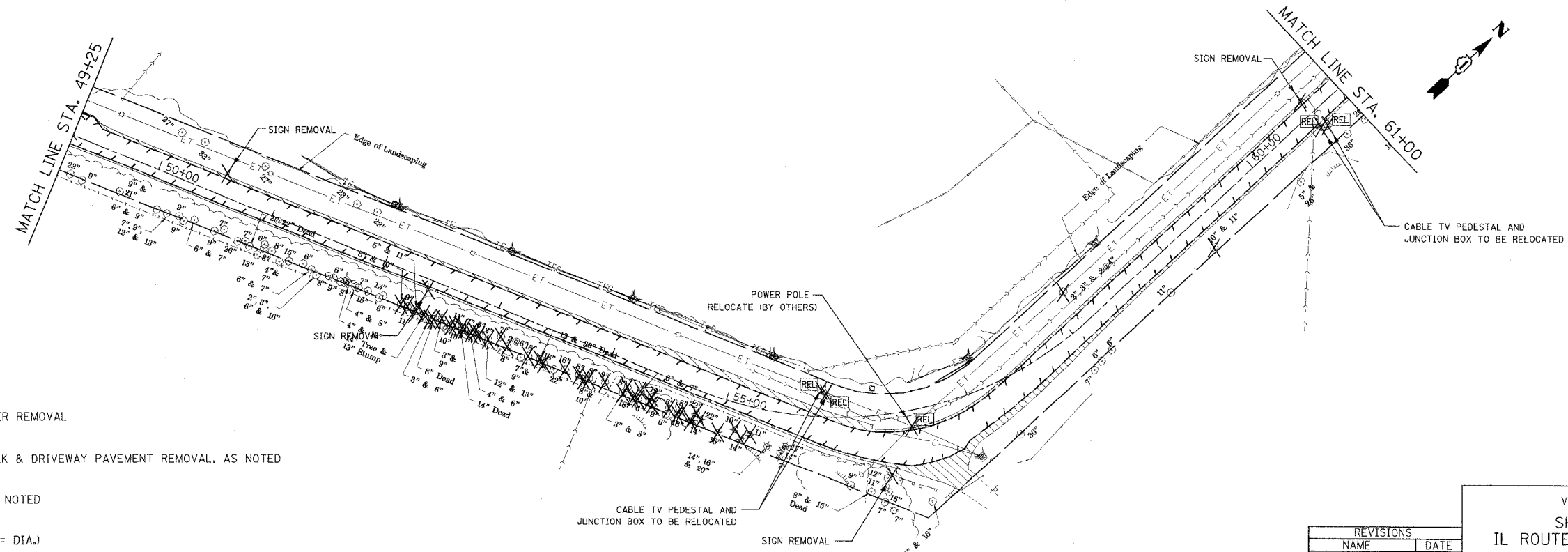
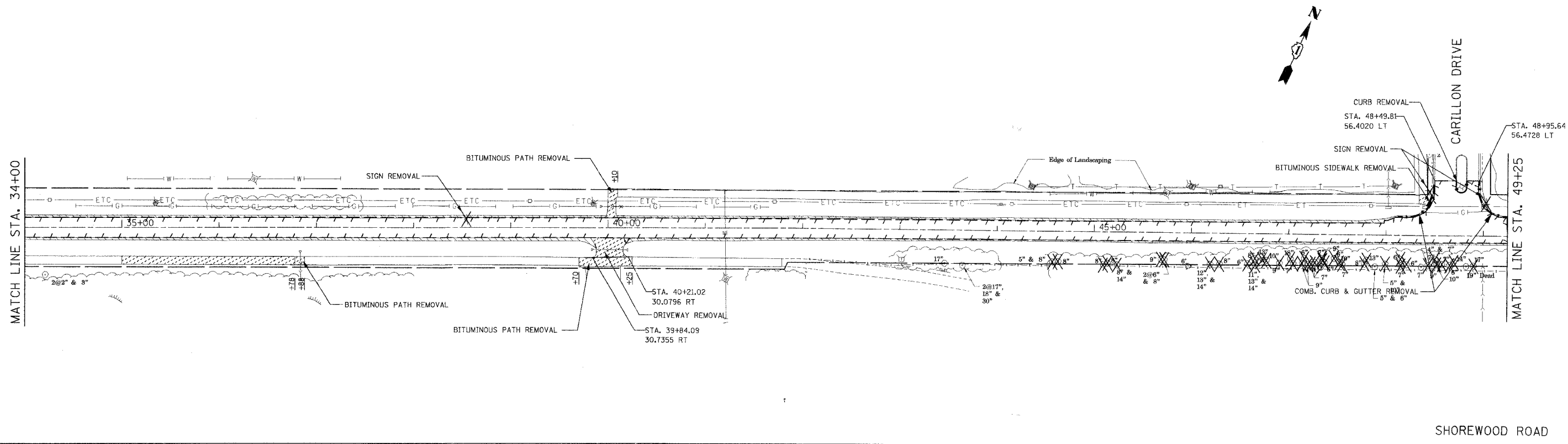
SCALE: 1" = 50'
 DATE: 4/21/06

DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY:

| | | | | |
|-----------------------|---------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| D3-00052-00-PV | LAKE | 78 | 11 | |
| STA. 34+00 | TO STA. 61+00 | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |

| | |
|-----------|------|
| PLAN | DATE |
| BY | |
| REVISIONS | |
| NO. | |
| DATE | |
| BY | |
| REVISIONS | |
| NO. | |
| DATE | |
| BY | |

| | |
|-----------|------|
| PROFILE | DATE |
| BY | |
| REVISIONS | |
| NO. | |
| DATE | |
| BY | |
| REVISIONS | |
| NO. | |
| DATE | |
| BY | |



- LEGEND:
- PAVEMENT REMOVAL
 - AGGREGATE SHOULDER REMOVAL
 - BIKE PATH, SIDEWALK & DRIVEWAY PAVEMENT REMOVAL, AS NOTED
 - RELOCATE ITEM, AS NOTED
 - TREE REMOVAL (XX = DIA.)
 - ITEM REMOVAL, AS NOTED

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

VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 REMOVAL PLAN

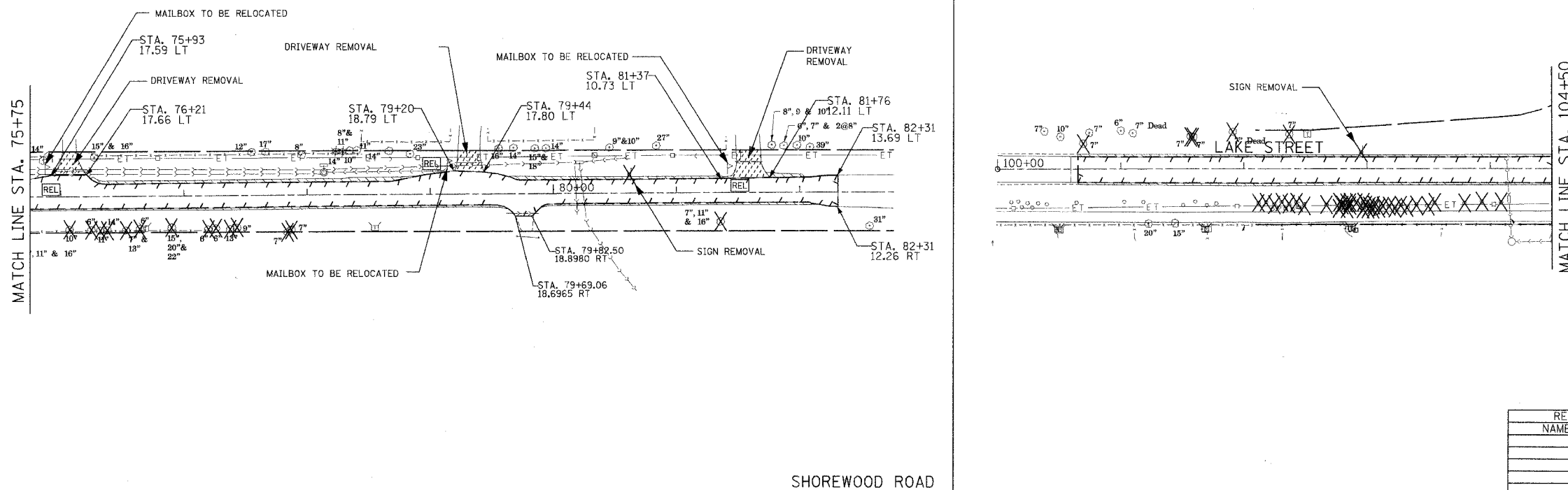
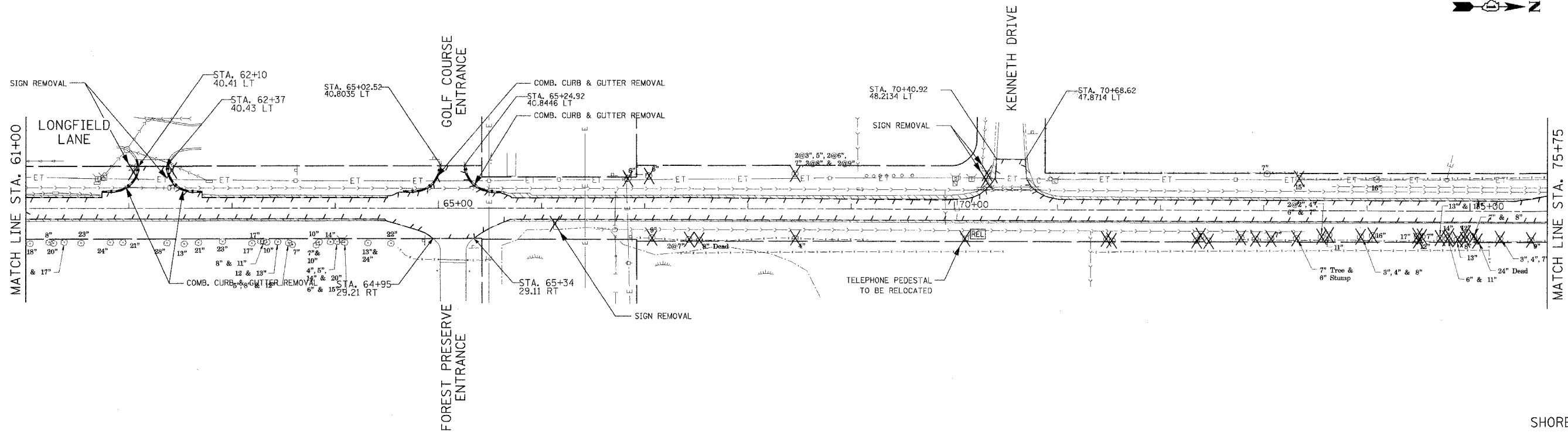
SCALE: 1" = 50'
 DATE: 4/21/06

DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY:

| | | | | |
|-----------------------|---------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 03-00052-00-PV | LAKE | | 78 | 12 |
| STA. 61+00 | TO STA. 82+32 | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |

| | |
|-----------|------|
| PLAN | DATE |
| BY | |
| REVISIONS | |
| NO. | |
| DATE | |
| BY | |
| REVISIONS | |
| NO. | |
| DATE | |
| BY | |

| | |
|-----------|------|
| PROFILE | DATE |
| BY | |
| REVISIONS | |
| NO. | |
| DATE | |
| BY | |
| REVISIONS | |
| NO. | |
| DATE | |
| BY | |



- LEGEND:
- PAVEMENT REMOVAL
 - AGGREGATE SHOULDER REMOVAL
 - BIKE PATH, SIDEWALK & DRIVEWAY PAVEMENT REMOVAL, AS NOTED
 - RELOCATE ITEM, AS NOTED
 - TREE REMOVAL (XX = DIA.)
 - ITEM REMOVAL, AS NOTED

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

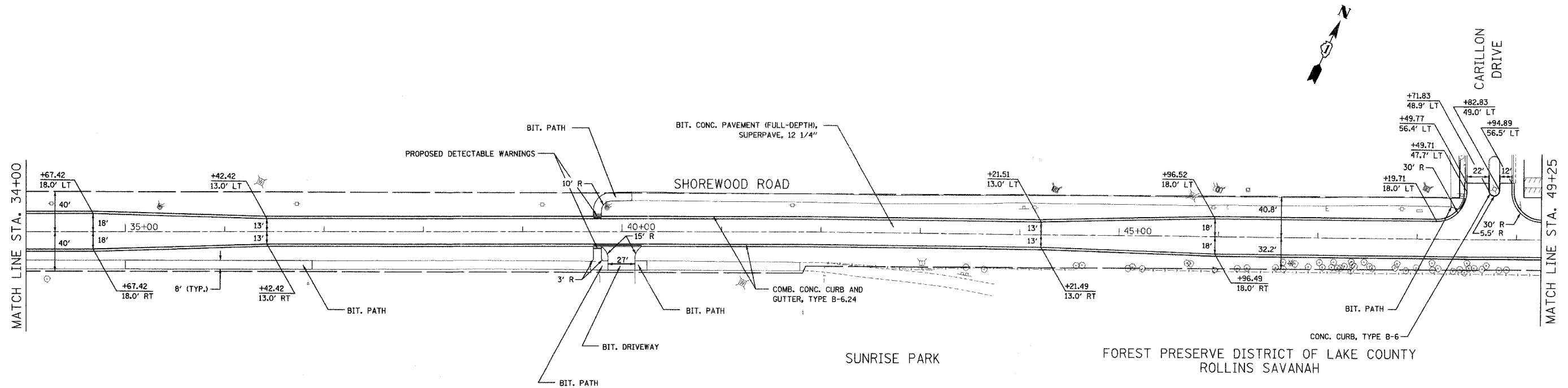
VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 REMOVAL PLAN

SCALE: 1" = 50'
 DATE: 4/21/06

DESIGNED BY: MTK
 DRAWN BY: MTK/BB/CP
 CHECKED BY:

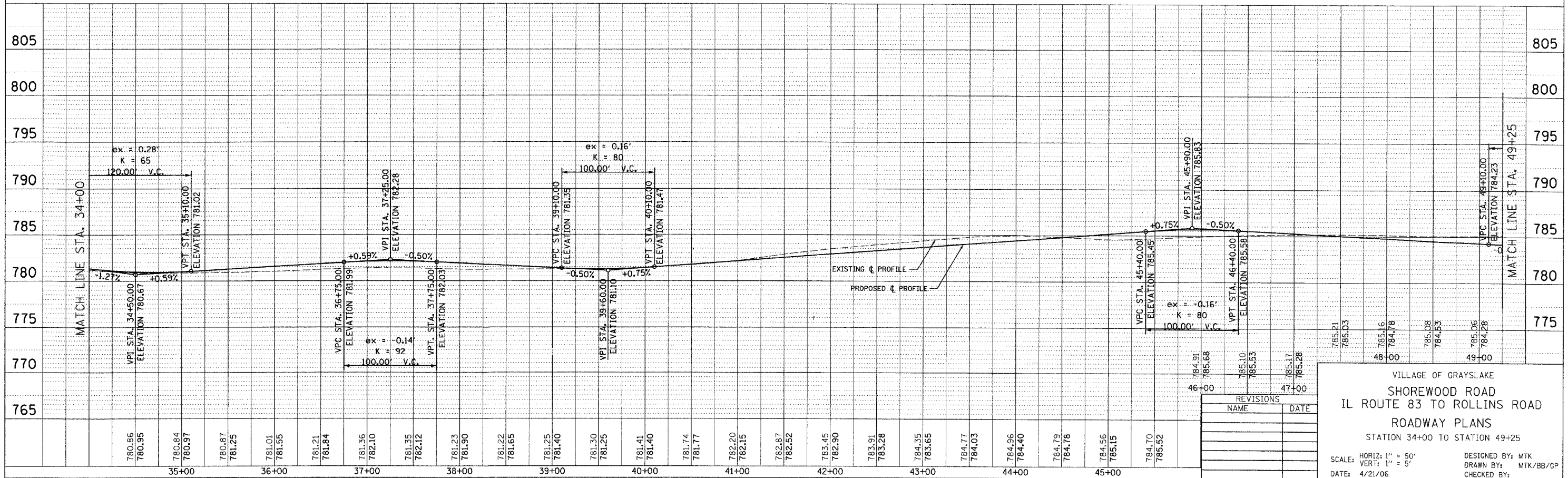
| | | | | |
|-----------------------|----------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 15 |
| STA. 34+00 | TO STA. 49+25 | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |

| | | | |
|------|--------------------|----|------|
| PLAN | SURVEYED | BY | DATE |
| | NOTE BOOK | | |
| | RT. OF WAY CHECKED | | |
| | NO. _____ | | |



NOTE: FOR LOCATIONS OF SEEDING AND SODDING, REFER TO PAVEMENT MARKING & LANDSCAPING PLANS, SHEETS 37-39.

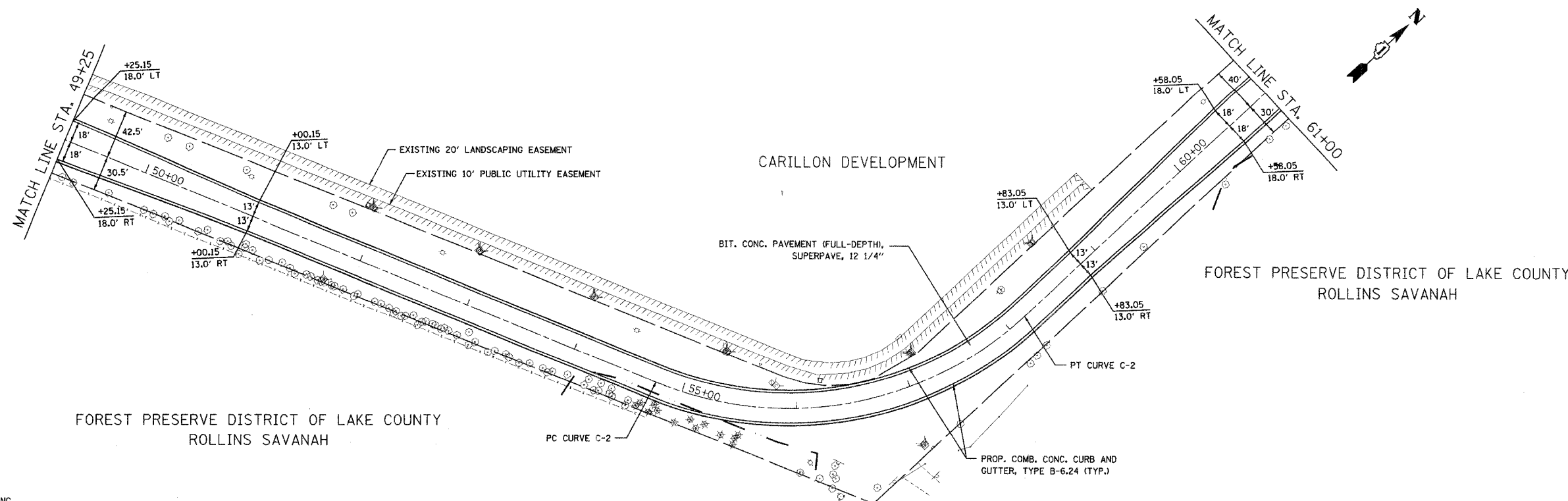
| | | | |
|---------|----------------|----|------|
| PROFILE | SURVEYED | BY | DATE |
| | NOTE BOOK | | |
| | GRADES CHECKED | | |
| | NO. _____ | | |



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

VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 ROADWAY PLANS
 STATION 34+00 TO STATION 49+25
 SCALE: HORIZ: 1" = 50'
 VERT: 1" = 5'
 DATE: 4/21/06
 DESIGNED BY: MTK
 DRAWN BY: MTK/BB/JP
 CHECKED BY:

| | | | | |
|-----------------------|----------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 03-00052-00-PV | LAKE | LAKE | 78 | 16 |
| STA. 49+25 | | TO STA. 61+00 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |

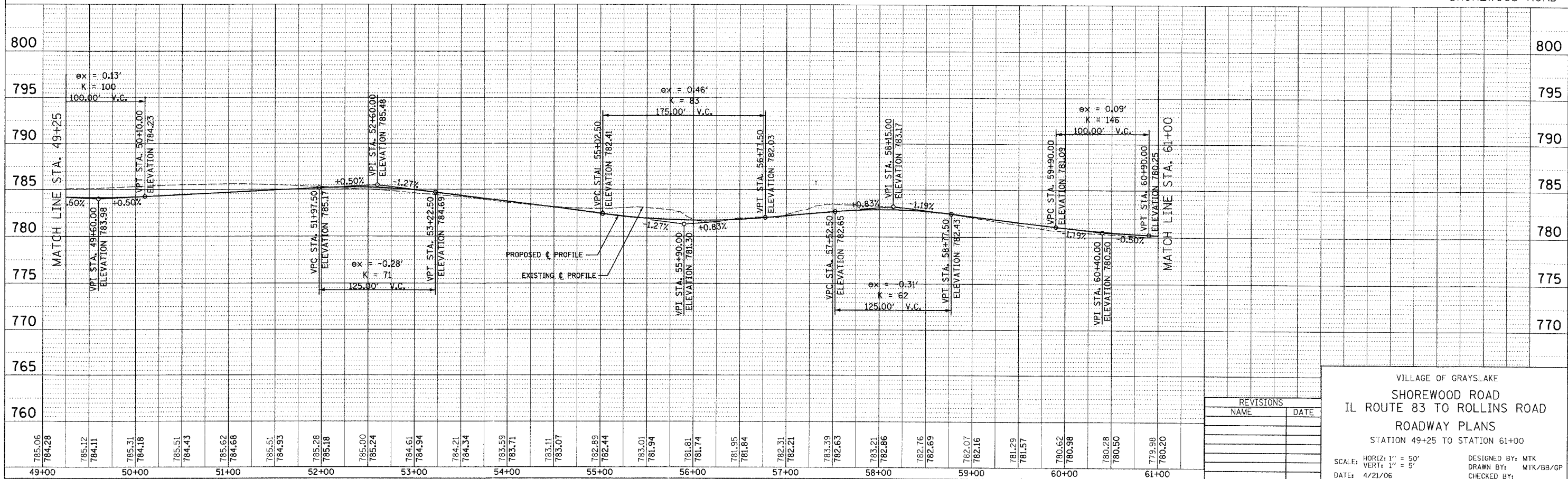


PROP. CURVE C-2
 PI STA. = 56+67.73
 $\Delta = 65^\circ 06' 28''$ (L.T.)
 $D = 19^\circ 05' 55''$
 $R = 300.00'$
 $T = 191.52'$
 $L = 340.90'$
 $E = 55.92'$
 P.C. STA. = 54+76.22
 P.T. STA. = 58+17.12

NOTE: FOR LOCATIONS OF SEEDING AND SODDING, REFER TO PAVEMENT MARKING & LANDSCAPING PLANS, SHEETS 37-39.

| | |
|------|------|
| PLAN | DATE |
| BY | |
| NO. | |
| NO. | |
| NO. | |
| NO. | |
| NO. | |

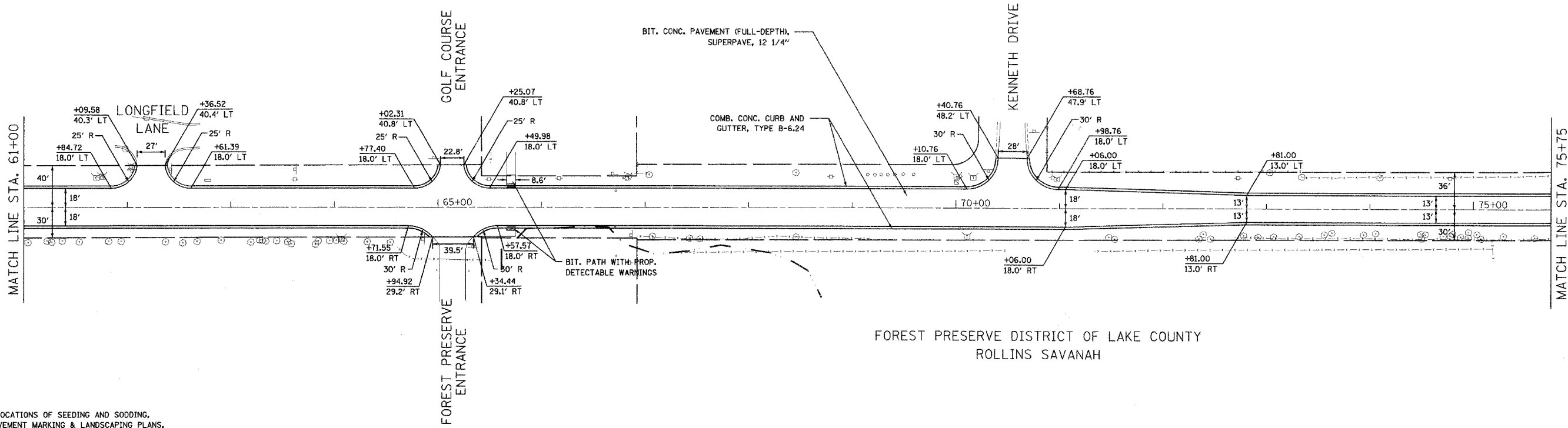
| | |
|---------|------|
| PROFILE | DATE |
| BY | |
| NO. | |
| NO. | |
| NO. | |
| NO. | |
| NO. | |



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

VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 ROADWAY PLANS
 STATION 49+25 TO STATION 61+00
 SCALE: HORIZ: 1" = 50'
 VERT: 1" = 5'
 DATE: 4/21/06
 DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY:

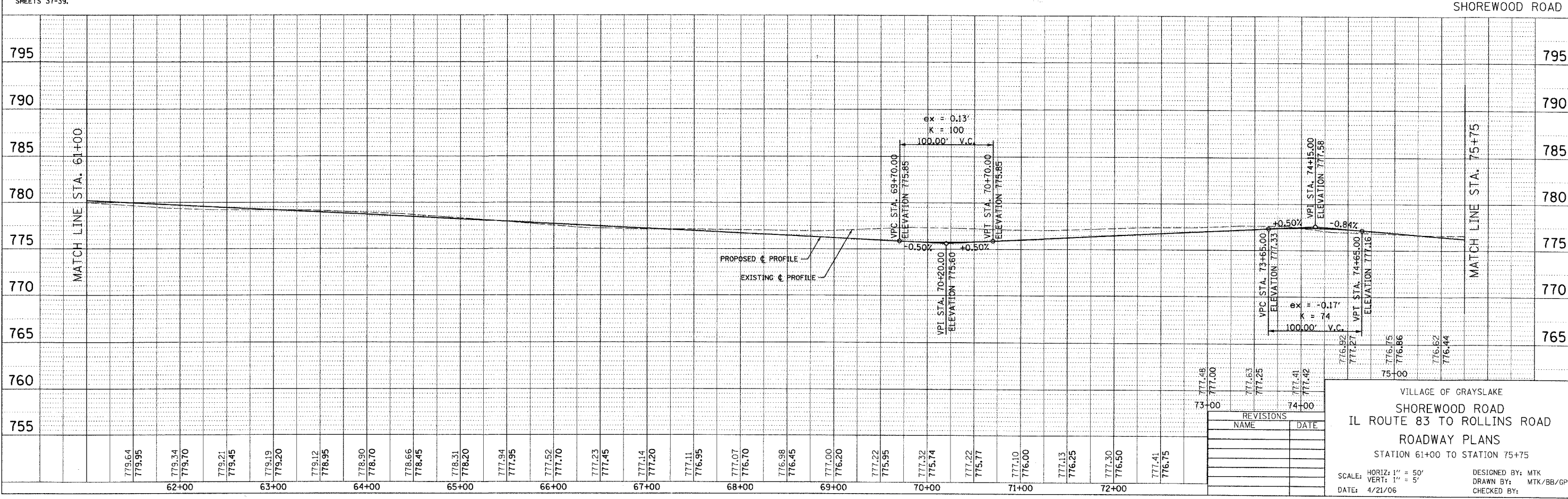
| | | | | |
|-----------------------|----------------|---------------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 17 |
| STA. 61+00 | | TO STA. 75+75 | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |



NOTE: FOR LOCATIONS OF SEEDING AND SODDING, REFER TO PAVEMENT MARKING & LANDSCAPING PLANS, SHEETS 37-39.

| | |
|------|------|
| PLAN | DATE |
| BY | |
| NO. | |
| NO. | |
| NO. | |

| | |
|---------|------|
| PROFILE | DATE |
| BY | |
| NO. | |
| NO. | |
| NO. | |



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

VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 ROADWAY PLANS
 STATION 61+00 TO STATION 75+75
 SCALE: HORIZ: 1" = 50'
 VERT: 1" = 5'
 DATE: 4/21/06
 DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY:

| | | | | |
|-----------------------|----------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | D3-00052-00-PV | LAKE | 78 | 20 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |

SCHEDULE OF SIGNS

| SIGN NO. | SIGN TYPE | QUANTITY |
|----------|--|----------|
| 1 | ROAD CLOSED TO THRU TRAFFIC R11-4-6030 | 6 |
| 2 | ROAD CLOSED R-11-2(0)-6030 | 9 |
| 3R | DETOUR M4-10R(0)-4818 | 2 |
| 3L | DETOUR M4-10L(0)-4818 | 2 |
| 4 | ROAD CLOSED 500 FT W20-3(0)-48 | 3 |
| 5 | WRONG WAY R5-1A-3624 | 2 |
| 6 | ONE WAY R6-1R-3612 | 1 |

LEGEND

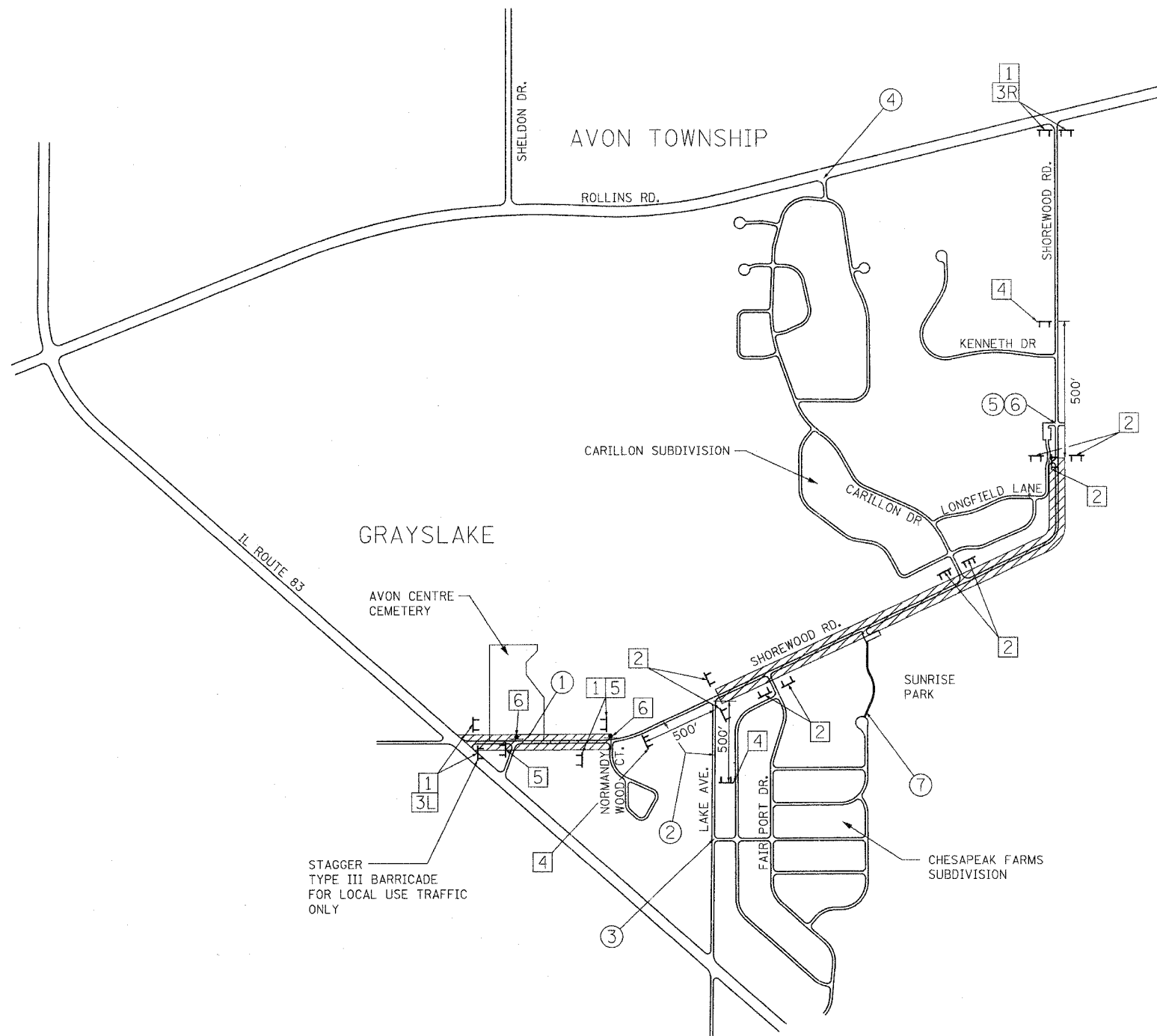
- SIGN TYPE
- TYPE III BARRICADE
- STAGE CONSTRUCTION ZONE

NOTE: A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT ALL POINTS OF INGRESS OR EGRESS FROM THE ZONE.

STAGE I - CONSTRUCTION

SHOREWOOD ROAD FROM EAST EDGE OF IL ROUTE 83 TO CENTER OF NORMANDY WOODS COURT, AND SHOREWOOD ROAD FROM EAST EDGE OF LAKE AVENUE TO NORTH EDGE OF LONGFIELD LANE

- ① MAINTAIN A MINIMUM OF ONE LANE OF EASTBOUND ONLY TRAFFIC ALONG SHOREWOOD ROAD BETWEEN IL ROUTE 83 AND NORMANDY WOODS COURT TO PROVIDE ACCESS TO THE AVON CENTRE CEMETERY, AND PRIVATE RESIDENCES ALONG SHOREWOOD ROAD. CLOSE CROSSWALK AT BIT. PATH REMOVAL EAST OF IL ROUTE 83 IN ACCORDANCE WITH STANDARD 701801-03.
- ② MAINTAIN ACCESS TO THE NORMANDY WOODS SUBDIVISION VIA LAKE AVENUE NORTH TO SHOREWOOD ROAD, AND SHOREWOOD ROAD WEST TO NORMANDY WOODS COURT.
- ③ MAINTAIN ACCESS TO THE CHESAPEAK FARMS SUBDIVISION VIA THE MAIN ENTRANCE OFF LAKE AVENUE, SOUTH OF SHOREWOOD ROAD.
- ④ MAINTAIN ACCESS TO THE CARILLON SUBDIVISION VIA THE MAIN ENTRANCE OFF ROLLINS ROAD, WEST OF SHOREWOOD ROAD.
- ⑤ MAINTAIN ACCESS TO THE CARILLON GOLF COURSE ENTRANCE NORTH OF LONGFIELD LANE.
- ⑥ MAINTAIN ACCESS TO THE ROLLINS SAVANNAH PARKING LOT ENTRANCE NORTH OF LONGFIELD LANE.
- ⑦ ACCESS TO SUNRISE PARK SHALL BE PROVIDED VIA THE CHESAPEAK FARMS SUBDIVISION.



STAGGER TYPE III BARRICADE FOR LOCAL USE TRAFFIC ONLY

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

| | |
|-----------|------|
| PROFILE | DATE |
| BY | |
| REVISIONS | |
| NO. | DATE |
| 1 | |
| 2 | |
| 3 | |
| 4 | |
| 5 | |
| 6 | |
| 7 | |
| 8 | |
| 9 | |
| 10 | |

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

VILLAGE OF GRAYSLAKE
SHOREWOOD ROAD
IL ROUTE 83 TO ROLLINS ROAD
SUGGESTED
MAINTENANCE OF TRAFFIC
STAGE I

SCALE:
DATE: 11/06/07




DESIGNED BY: MTK
DRAWN BY: MTK/BB/GP
CHECKED BY: RPI

| | | | | |
|-----------------------|----------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 21 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |

SCHEDULE OF SIGNS

| SIGN NO. | SIGN TYPE | QUANTITY |
|----------|--|----------|
| 1 | ROAD CLOSED TO THRU TRAFFIC R11-4-6030 | 6 |
| 2 | ROAD CLOSED R-11-2(0)-6030 | 6 |
| 3R | RIGHT TURN M4-10R(0)-4818 | 0 |
| 3L | LEFT TURN M4-10L(0)-4818 | 2 |
| 4 | ROAD CLOSED 500 FT W20-3(0)-48 | 2 |

LEGEND

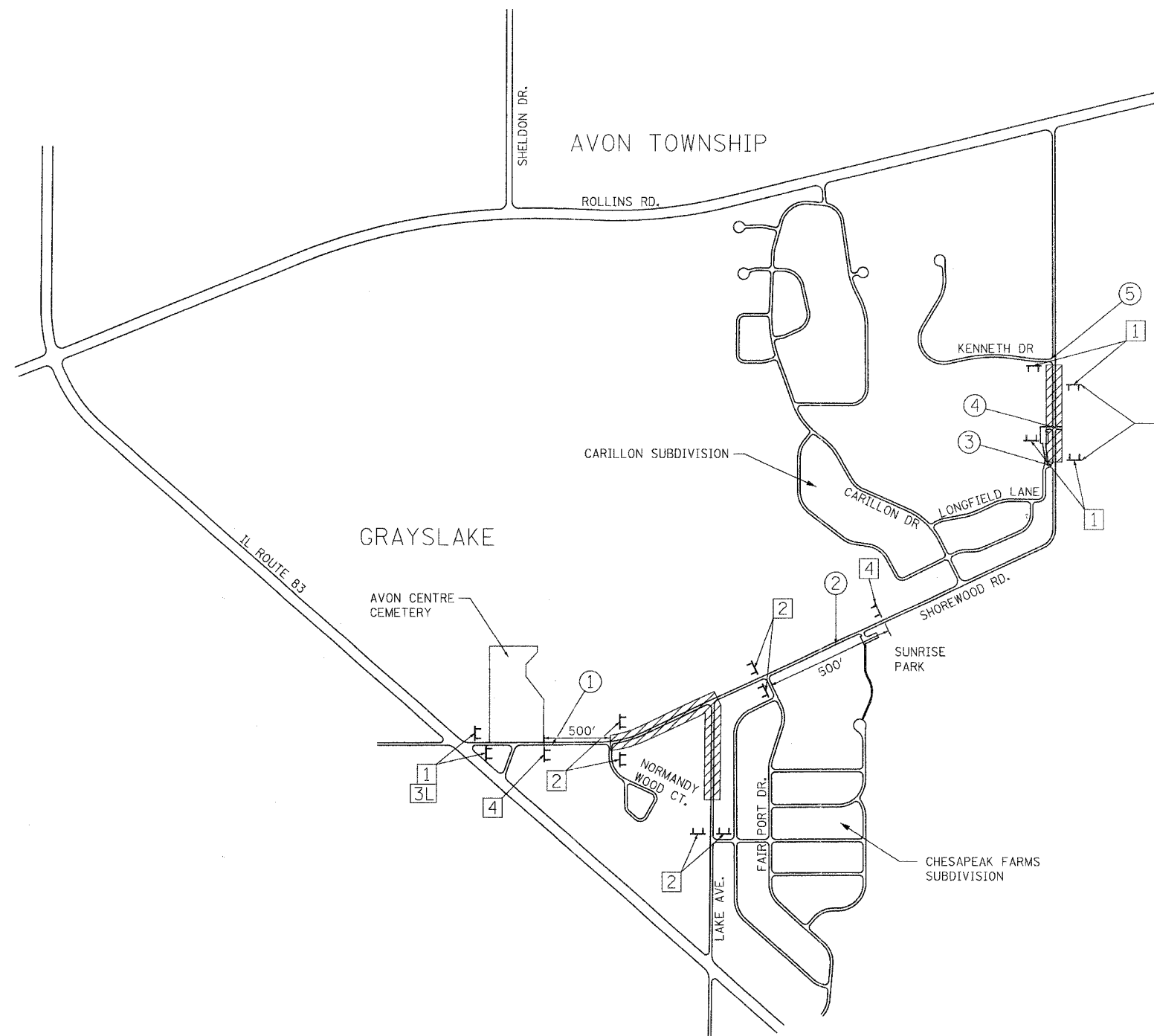
-  SIGN TYPE
-  TYPE III BARRICADE
-  STAGE CONSTRUCTION ZONE

NOTE: A STABILIZED CONSTRUCTION ENTRANCE SHALL BE PLACED AT ALL POINTS OF INGRESS OR EGRESS FROM THE ZONE.

STAGE II - CONSTRUCTION

SHOREWOOD ROAD FROM CENTER OF NORMANDY WOODS COURT TO EAST EDGE OF LAKE AVENUE
 SHOREWOOD ROAD FROM NORTH EDGE OF LONGFIELD LANE TO SOUTH EDGE OF KENNETH DRIVE
 LAKE AVENUE SOUTH OF SHOREWOOD ROAD

- ① MAINTAIN ACCESS TO THE AVON CENTRE CEMETERY, NORMANDY WOODS SUBDIVISION, AND PRIVATE RESIDENCES ALONG SHOREWOOD BETWEEN IL ROUTE 83 AND NORMANDY WOODS COURT VIA NEWLY CONSTRUCTED STAGE I PORTION OF ROADWAY.
- ② MAINTAIN ACCESS TO CHESAPEAK FARMS SUBDIVISION, CARILLON SUBDIVISION, AND SUNRISE PARK VIA NEWLY CONSTRUCTED STAGE I PORTION OF ROADWAY.
- ③ MAINTAIN ACCESS TO CARILLON GOLF COURSE VIA LONGFIELD LANE.
- ④ MAINTAIN A MINIMUM OF ONE LANE OF TRAFFIC ALONG SHOREWOOD ROAD BETWEEN LONGFIELD LANE AND KENNETH DRIVE TO PROVIDE ACCESS TO THE ROLLINS SAVANNAH PARKING LOT.
- ⑤ MAINTAIN ACCESS TO KENNETH DRIVE SUBDIVISION VIA SHOREWOOD ROAD BETWEEN ROLLINS ROAD AND KENNETH DRIVE.



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

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

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

VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 SUGGESTED
 MAINTENANCE OF TRAFFIC
 STAGE II

SCALE: DATE: 11/06/07

DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY: RPT

DATE: _____
 BY: _____
 PLAN: _____
 SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 DATE: _____
 NO. _____

DATE: _____
 BY: _____
 PROFILE: _____
 SURVEYED: _____
 PLOTTED: _____
 CHECKED: _____
 DATE: _____
 NO. _____

| CONTROL MEASURE GROUP | CONTROL MEASURE | APPL. | KEY | CONTROL MEASURE CHARACTERISTICS | TEMP. | PERMIT |
|---------------------------|--|----------------------------|-------|---|--|--------|
| VEGETATIVE SOIL COVER | TEMPORARY SEEDING | | (TS) | PROVIDES QUICK TEMPORARY COVER TO CONTROL EROSION WHEN PERMANENT SEEDING IS NOT DESIRED OR TIME OF YEAR IS INAPPROPRIATE. | | |
| | PERMANENT SEEDING | X | (PS) | PROVIDES PERMANENT VEGETATIVE COVER TO CONTROL EROSION, FILTERS SEDIMENT FROM WATER. CLASSES 2A, 4A & 4B (SEE CHART BELOW). | X | X |
| | DORMANT SEEDING | | (DS) | SAME AS PERMANENT SEEDING EXCEPT IS DONE DURING DORMANT SEASON. HIGHER RATES OF SEED APPLICATION ARE REQUIRED. | | |
| | SODDING | X | (SO) | QUICK PERMANENT COVER TO CONTROL EROSION. QUICK WAY TO ESTABLISH VEGETATION FILTER STRIP. CAN BE USED ON STEEP SLOPES OR IN DRAINAGEWAYS WHERE SEEDING MAY BE DIFFICULT. | X | X |
| | PLANTS, TREES & SHRUBS | | (CC) | PROVIDES GROUND COVER, SHRUBS AND TREES IN ADDITION TO PERMANENT VEGETATION. MAY BE USED AS PART OF A FINAL LANDSCAPE PLAN ALONG WITH SHRUBS AND TREES. | | |
| NON VEGETATIVE SOIL COVER | MULCHING | | (M) | ADDED INSURANCE OF A SUCCESSFUL TEMPORARY OR PERMANENT SEEDING. CONTROLS UNWANTED VEGETATION AND PRESERVES MOISTURE. PROVIDES COVER WHERE VEGETATION CANNOT BE ESTABLISHED. | | |
| | EROSION BLANKET | X | (EB) | PROTECTS THE SOIL SURFACE FROM RAINDROP IMPACTS AND OVERLAND FLOW DURING THE ESTABLISHMENT OF VEGETATION. REDUCES SOIL MOISTURE LOSS DUE TO EVAPORATION. | X | |
| | AGGREGATE COVER | | (AG) | PROVIDES SOIL COVER ON ROADS AND PARKING LOTS AND AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. PREVENTS MUD FROM BEING PICKED UP AND TRANSPORTED OFF-SITE. | | |
| | PAVING | X | (P) | PROVIDES PERMANENT COVER ON PARKING LOTS AND ROADS OR OTHER AREAS WHERE VEGETATION CANNOT BE ESTABLISHED. | | X |
| DIVERSIONS | RIDGE DIVERSION | | (RD) | TYPICALLY USED ABOVE SLOPES. USED WHERE AN EXCESS OF SOIL IS AVAILABLE. | | |
| | CHANNEL DIVERSION | | (CD) | TYPICALLY USED AT TOP OR BASE OF SLOPES. USED WHEN EXCESS SOIL IS NOT AVAILABLE. | | |
| | COMBINATION DIVERSION | | (DC) | TYPICALLY USED ANYWHERE ON A SLOPE. SOIL TAKEN OUT OF CHANNEL IS USED TO BUILD THE RIDGE. | | |
| | CURB AND GUTTER | X | (CG) | SPECIAL CASE OF DIVERSION USED IN CONJUNCTION WITH A STREET TO DIVERT WATER FROM AN AREA NEEDING PROTECTION. | | X |
| | BENCHES | | (B) | SPECIAL CASE OF DIVERSION CONSTRUCTED WHEN WORKING ON CUT SLOPES TO SHORTEN LENGTH OF SLOPE AND ADD SLOPE STABILITY. | | |
| WATERWAYS | BARE CHANNEL | | (BC) | PROVIDES MEANS OF CONVEYING RUNOFF TO DESIRED LOCATION. MAY BE USED TO DRAIN DEPRESSIONAL AREAS. ONLY APPLICABLE WHEN VELOCITY OF FLOW IS VERY LOW. | | |
| | STRUCTURAL STREAMBANK STABILIZATION | | (SSS) | PROTECTS STREAMBANKS FROM EROSION FORCE OF FLOWING WATER | | |
| | VEGETATIVE CHANNEL | | (VC) | PROVIDED ADDED STABILITY TO CHANNEL. USED WHEN VELOCITY OF FLOW IS NOT EXTREMELY FAST. | | |
| | VEGETATIVE STREAMBANK STABILIZATION | | (VS) | PROTECTS STREAMBANKS FROM THE EROSION FORCE OF FLOWING WATER AND PROVIDES NATURAL, PLEASING APPEARANCE | | |
| | LINED CHANNEL | | (LC) | USED WHEN VEGETATION WILL NOT PROTECT THE CHANNEL AGAINST HIGH VELOCITIES OF FLOW OR WHERE VEGETATION CANNOT BE ESTABLISHED. | | |
| ENCLOSED DRAINAGE | STORM SEWER | X | (ST) | CAN BE USED TO CONVEY SEDIMENT LADEN WATER TO SEDIMENT BASIN OR IN CONJUNCTION WITH A WATERWAY. | | X |
| | UNDERDRAIN | | (UD) | USED TO LOWER WATER TABLE AND INTERCEPT GROUNDWATER FOR BETTER VEGETATION GROWTH AND SLOPE STABILITY. USED TO CARRY BASE FLOW IN WATERWAYS AND TO DEWATER SEDIMENT BASINS. | | |
| SPILLWAYS | STRAIGHT PIPE SPILLWAY | | (SS) | USED FOR RELATIVELY SMALL VERTICAL DROPS AND SMALL FLOWS OF WATER. | | |
| | DROP INLET PIPE SPILLWAY | | (DTS) | SAME AS PIPE SPILLWAY EXCEPT LARGER FLOWS AND LARGE VERTICAL DROPS CAN BE ACCOMMODATED. | | |
| | WEIR SPILLWAY | | (W) | USED FOR RELATIVELY SMALL VERTICAL DROPS AND FLOWS MUCH GREATER THAN PIPE STRUCTURES. | | |
| | BOX INLET WEIR SPILLWAY | | (BS) | SAME AS WEIR SPILLWAY EXCEPT LARGER FLOWS CAN BE ACCOMMODATED BECAUSE OF LOWER WEIR LENGTH. | | |
| OUTLETS | LEVEL SPREADER | X | (LS) | PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES. | X | X |
| | RIPRAP | X | (RR) | PROTECTS DOWNSTREAM CHANNEL FROM HIGH VELOCITY OF FLOW DISCHARGING FROM STRUCTURES. | X | X |
| SEDIMENT BASINS | EMBANKMENT SEDIMENT BASIN | | (ES) | USED WHERE TOPOGRAPHY LENDS ITSELF TO CONSTRUCTING A DAM AND EARTH FILL IS AVAILABLE. | | |
| | EXCAVATED SEDIMENT BASIN | | (XS) | USED WHERE EMBANKMENT COULD CAUSE A HAZARD DOWNSTREAM IN CASE OF FAILURE AND WHEN EXCESS EARTH FILL IS NOT AVAILABLE. | | |
| | COMBINATION SEDIMENT BASIN | | (CS) | USED WHEN TOPOGRAPHY IS SUITABLE BUT ADDITIONAL CAPACITY IS NEEDED. | | |
| | SEDIMENT TRAPS | | (ST) | USED WHEN CONCENTRATED OR CHANNELIZED FLOW IS LIKELY TO BE PRESENT. | | |
| INLET PROTECTION | EXCAVATED DRAIN OR BLOCK AND GRAVEL PLAN | | (SB) | TEMPORARY PRACTICE TO CONTROL SEDIMENT AT STORM DRAIN INLET | | |
| | BARRIER FILTER | X | (BF) | USED FOR SINGLE LOTS OR DRAINAGE AREAS LESS THAN 1/2 ACRE TO FILTER SEDIMENT FROM RUNOFF. | X | |
| | VEGETATIVE FILTER | | (VF) | USED ALONG DRAINAGEWAYS OR PROPERTY LINES TO FILTER SEDIMENT FROM RUNOFF. SIZE MUST BE INCREASED IN PROPORTION TO DRAINAGE AREA. | | |
| SEDIMENT FILTERS | INLET FILTER | X | (IF) | USED FOR DRAINAGE STRUCTURES AND FLARED END SECTIONS | X | |
| | MUD AND DUST CONTROL | X | (SE) | PREVENT MUD FROM BEING PICKED UP AND CARRIED OFF-SITE. | | X |
| MUD AND DUST CONTROL | DUST AND TRAFFIC CONTROL | | (DT) | PREVENTS DUST FROM LEAVING CONSTRUCTION SITE. | | |
| | RUNOFF CONTROL | AGGREGATE BERM (CHECK DAM) | | (AB) | TEMPORARY PRACTICE TO CONTROL SEDIMENT AT CULVERT INLET, REDUCE VELOCITY AND TRAP SEDIMENT | |
| SEDIMENT LOG | | | (SL) | TEMPORARY PRACTICE TO REDUCE VELOCITY AND TRAP SEDIMENT | | |
| SEDIMENT CONTROL | SUMP PIT AND FILTER BAG | | (SF) | TEMPORARY PRACTICE TO REMOVE EXCESSIVE WATER FROM EXCAVATION WITH IMPROVED WATER QUALITY AND WITHOUT SEDIMENT | | |
| | FLOC LOG | | (FL) | TEMPORARY SOLUTION TO REMOVE FINE PARTICLES AND PLACED CLOSE TO THE SOURCE OF PARTICLE SUSPENSION | | |

| INSPECTION AND MAINTENANCE SCHEDULE | | | |
|-------------------------------------|-----------------|-------------------|--|
| ITEM | ACTIVITY | RESPONSIBLE PARTY | SCHEDULE |
| STABILIZATION DURING CONSTRUCTION | SITE INSPECTION | CONTRACTOR | WEEKLY AND WITHIN 24 HOURS OF RAIN EVENT |
| | MAINTENANCE | CONTRACTOR | AS REQUIRED BY INSPECTION |
| VEGETATION DURING CONSTRUCTION | SITE INSPECTION | CONTRACTOR | WEEKLY AND WITHIN 24 HOURS OF RAIN EVENT |
| | MAINTENANCE | CONTRACTOR | AS REQUIRED BY INSPECTION |
| VEGETATION AFTER CONSTRUCTION | SITE INSPECTION | MUNICIPALITY | MONTHLY |
| | MAINTENANCE | MUNICIPALITY | CONTRACTOR 1 YEAR WARRANTY / AS REQUIRED BY INSPECTION |

| ACTIVITY | PROPOSED WORK SCHEDULE | | | | | | | | | | | | |
|--|------------------------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|--------|
| | SEP-08 | OCT-08 | NOV-08 | DEC-08 | JAN-09 | FEB-09 | MAR-09 | APR-09 | MAY-09 | JUN-09 | JUL-09 | AUG-09 | SEP-09 |
| INSTALL SOIL EROSION AND SEDIMENT CONTROL (SE/SC) MEASURES | | | | | | | | | | | | | |
| TREE PROTECTION & REMOVAL / CLEAR & GRUB | | | | | | | | | | | | | |
| INSTALL STORM SEWER WITH INLET & OUTLET PROTECTION | | | | | | | | | | | | | |
| INSTALL ROADWAY IMPROVEMENTS | | | | | | | | | | | | | |
| GRADE AND PLACE VEGETATIVE SOIL COVER | | | | | | | | | | | | | |
| REMOVE TEMPORARY SE/SC MEASURES AFTER SITE IS STABILIZED WITH PERMANENT CONTROL MEASURES | | | | | | | | | | | | | |

CONTRACTOR CERTIFICATION
 "I CERTIFY UNDER PENALTY OF LAW THAT I UNDERSTAND THE TERMS AND CONDITIONS OF THE GENERAL NATIONAL POLLUTANT DISCHARGE ELIMINATION SYSTEM (NPDES) PERMIT (ILRIO) THAT AUTHORIZES THE STORM WATER DISCHARGES ASSOCIATED WITH INDUSTRIAL ACTIVITY FROM THE CONSTRUCTION SITE IDENTIFIED AS PART OF THIS CERTIFICATION"

GENERAL CONTRACTOR
 SIGNATURE _____ TITLE _____ DATE _____
 COMPANY _____

SUB-CONTRACTOR RESPONSIBLE FOR:
 SIGNATURE _____ TITLE _____ DATE _____
 COMPANY _____

WITNESSED BY OWNER
 SIGNATURE _____ TITLE _____ DATE _____
 COMPANY _____

- A (2A) ALTA FESCUE OR KY 31 30 LBS/ACRE MIXED WITH PERENNIAL RYEGRASS 10 LBS/ACRE, DAWSONS RED FESCUE 15 LBS/ACRE, SCALDIS RED FESCUE 15 LBS/ACRE AND FULTS SALT GRASS 1/ 30 LBS/ACRE
- B (4A) ANDROPOGON SCOPARIUS 5 LBS/ACRE BOUTELOVA CURTIPENDULA 5 LBS/ACRE ELYMUS CANADENSIS 1 LBS/ACRE SPOROBOLUS HETEROLEPSIS 0.5 LBS/ACRE ANNUAL RYEGRASS 25 LBS/ACRE OATS, SPRING 25 LBS/ACRE PERENNIAL RYEGRASS 15 LBS/ACRE
- C (4B) ANNUAL RYEGRASS 25 LBS/ACRE OATS, SPRING 25 LBS/ACRE WETLAND GRASSES 6 LBS/ACRE
- D SPRING OATS 100 LBS/ACRE
- E WHEAT OR CEREAL RYE 150 LBS/ACRE
- F SOD
- G ALFALFA/SOYBEANS 100-250 LBS/ACRE (VERIFY WITH TCR)
- * IRRIGATION NEEDED DURING ENTIRE MONTH
- ** IRRIGATION NEEDED FOR 2 TO 3 WEEKS AFTER APPLYING SOD.
- () IDOT STANDARD, ART. 250.07, TABLE I - SEEDING MIXTURES (CLASS-TYPE)

| STABILIZATION TYPE | 2008 | | | | 2009 | | | | | | | | |
|--------------------|-------|------|------|------|------|------|-------|------|-----|------|------|------|-------|
| | SEPT. | OCT. | NOV. | DEC. | JAN. | FEB. | MAR. | APR. | MAY | JUNE | JULY | AUG. | SEPT. |
| PERMANENT SEEDING | | | | | | | A,B,C | | | * | * | | |
| SODDING | | | | | | | F** | | | | | | |
| TEMPORARY SEEDING | E | | | | | | D | | | E | | | |

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

VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 EROSION CONTROL
 LEGEND & SCHEDULE

SCALE: _____
 DATE: 11/06/07

DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY: RPI

| | | | | |
|-----------------------|----------------|----------|------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 24 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |
| CONTRACT NUMBER 63002 | | | | |

SEDIMENTATION AND EROSION CONTROL NOTES

- SOIL DISTURBANCE SHALL BE CONDUCTED IN SUCH A MANNER AS TO MINIMIZE EROSION. SOIL STABILIZATION MEASURES SHALL CONSIDER THE TIME OF YEAR, SITE CONDITIONS, AND THE USE OF TEMPORARY OR PERMANENT MEASURES.
- SOIL EROSION AND CONTROL FEATURES SHALL BE CONSTRUCTED PRIOR TO THE COMMENCEMENT OF ANY HYDROLOGIC DISTURBANCE OF UPLAND AREAS.
- DISTURBED AREAS SHALL BE STABILIZED WITHIN 14 CALENDAR DAYS OF THE END OF HYDROLOGIC DISTURBANCE OR RE-DISTURBANCE.
- AREAS OR EMBANKMENTS HAVING SLOPES GREATER THAN OR EQUAL TO 3H:1V SHALL BE STABILIZED WITH SOD MAT OR BLANKET IN COMBINATION WITH SEEDING.
- EROSION CONTROL BLANKET SHALL BE REQUIRED ON ALL INTERIOR DETENTION BASIN SIDE SLOPES BETWEEN NORMAL WATER LEVEL AND HIGH WATER LEVEL.
- ALL STORM SEWERS THAT ARE OR WILL BE FUNCTIONING DURING CONSTRUCTION SHALL BE PROTECTED BY AN APPROPRIATE SEDIMENT CONTROL MEASURE.
- ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS AFTER FINAL SITE STABILIZATION IS ACHIEVED, OR AFTER THE TEMPORARY MEASURES ARE NO LONGER NEEDED.
- A STABILIZED MAT OF AGGREGATE UNDERLAIN WITH FILTER CLOTH (OF OTHER APPROPRIATE MEASURE) SHALL BE LOCATED AT ANY POINT WHERE TRAFFIC WILL BE ENTERING OR LEAVING A CONSTRUCTION SITE TO OR FROM A PUBLIC RIGHT-OF-WAY, STREET, ALLEY OR PARKING AREA. ANY SEDIMENT OR SOIL REACHING AN IMPROVED PUBLIC RIGHT-OF-WAY, STREET, OR PARKING AREA SHALL BE REMOVED BY SCRAPING OR STREET CLEANING, AS ACCUMULATIONS WARRANT, AND TRANSPORTED TO A CONTROLLED SEDIMENT DISPOSAL AREA.
- SOIL STOCKPILES SHALL NOT BE LOCATED IN FLOOD-PRONE AREA OR A DESIGNATED BUFFER PROTECTING WATERS OF THE UNITED STATES OR ISOLATED WATERS OF LAKE COUNTY.
- IF DEWATERING OPERATIONS ARE TO BE CONDUCTED, ADJOINING PROPERTIES AND DISCHARGE LOCATIONS SHALL BE PROTECTED FROM EROSION. DISCHARGES SHALL BE ROUTED THROUGH EFFECTIVE SEDIMENT CONTROL MEASURES (E.G., SEDIMENT TRAP, BASIN, OR OTHER APPROPRIATE MEASURE).
- THE SEDIMENT AND EROSION CONTROL MEASURE SHOWN ON THESE PLANS ARE A MINIMUM REQUIREMENT. ADDITIONAL MEASURES MAY BE REQUIRED, AS DIRECTED BY THE ENGINEER OR GOVERNING AGENCY.
- ALL DISTURBED AREAS MUST BE RESTORED WITH APPROPRIATE EROSION CONTROL BLANKET AND SEEDING AS SHOWN ON THE PLANS.

TYPICAL CONSTRUCTION SEQUENCING

- INSTALLATION OF SOIL EROSION AND SEDIMENT CONTROL SE/SC MEASURES
 - SELECTIVE VEGETATION REMOVAL FOR SILT FENCE INSTALLATION
 - SILT FENCE INSTALLATION
 - CONSTRUCTION FENCING AROUND AREAS NOT TO BE DISTURBED
 - STABILIZED CONSTRUCTION ENTRANCE
- TREE REMOVAL WHERE NECESSARY (CLEAR & GRUB)
- CONSTRUCT SEDIMENT TRAPPING DEVICES (SEDIMENT TRAPS, BASINS...)
- CONSTRUCT DETENTION FACILITIES AND OUTLET CONTROL STRUCTURE WITH RESTRICTOR & TEMPORARY PERFORATED RISER
- STRIP TOPSOIL, STOCKPILE TOPSOIL AND GRADE SITE
- TEMPORARILY STABILIZE TOPSOIL STOCKPILE (SEED AND SILT FENCE AROUND TOE OF SLOPE)
- INSTALL STORM SEWER, SANITARY SEWER, WATER AND ASSOCIATED INLET & OUTLET PROTECTION
- PERMANENTLY STABILIZE DETENTION BASINS WITH SEED AND EROSION CONTROL BLANKET
- TEMPORARILY STABILIZE ALL AREAS INCLUDING LOTS THAT HAVE REACHED TEMPORARY GRADE
- INSTALL ROADWAYS
- PERMANENTLY STABILIZE ALL OUTLET AREAS
- INSTALL STRUCTURES AND GRADE INDIVIDUAL LOTS
- PERMANENTLY STABILIZE LOTS
- REMOVE ALL TEMPORARY SE/SC MEASURES AFTER THE SITE IS STABILIZED WITH VEGETATION
- * SOIL EROSION AND SEDIMENT CONTROL MAINTENANCE MUST OCCUR EVERY TWO WEEKS AND AFTER EVERY 1/2" OR GREATER RAINFALL EVENT

| | | |
|---------------|---------------------|------|
| PLAN | SURVEYED | DATE |
| NOTE BOOK NO. | PLOTTED | BY |
| | INT. OF WAY CHECKED | |
| | GRID FILE NAME | |

| | | |
|---------------|-----------------------------|------|
| PROFILE | SURVEYED | DATE |
| NOTE BOOK NO. | PLOTTED | BY |
| | RAM NOTED | |
| | STRUCTURE NOTATIONS CHECKED | |

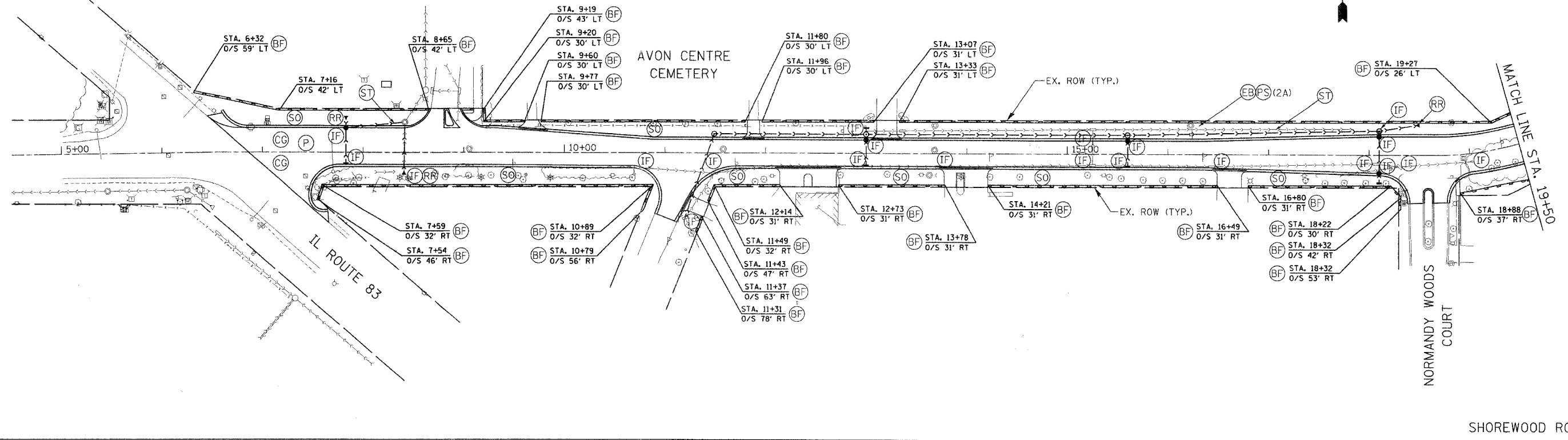
| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 EROSION CONTROL
 NOTES

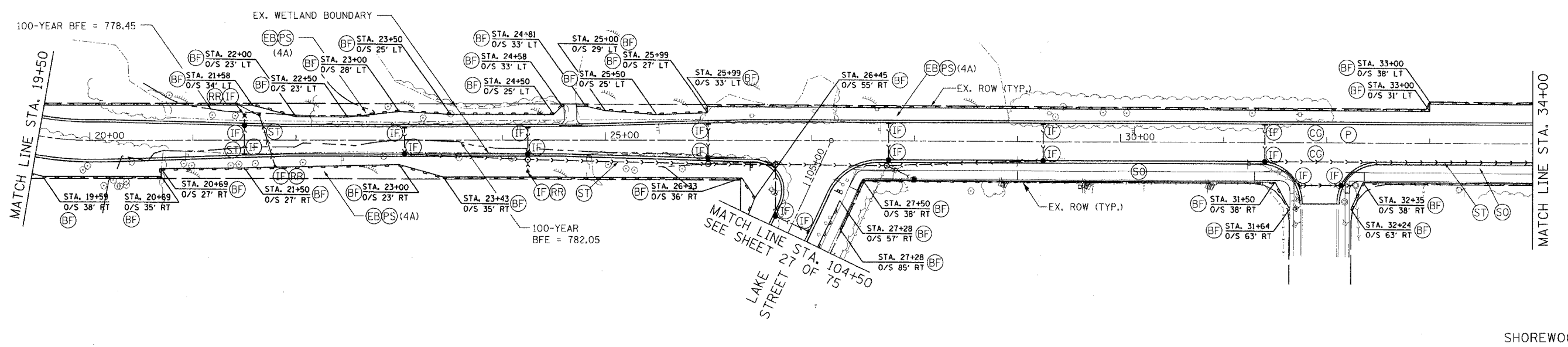
SCALE:
 DATE: 11/06/07

DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY: RPI

| | | | |
|-----------------------|---------------|------------------|-------------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEET |
| 03-00052-00-PV | LAKE | 78 | 25 |
| STA. 6+87 | TO STA. 34+00 | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | |
| CONTRACT NUMBER 63002 | | | |



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



| | | |
|-----------|----------|------|
| PROFILE | SURVEYED | DATE |
| NOTE BOOK | BY | |
| NO. | | |

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

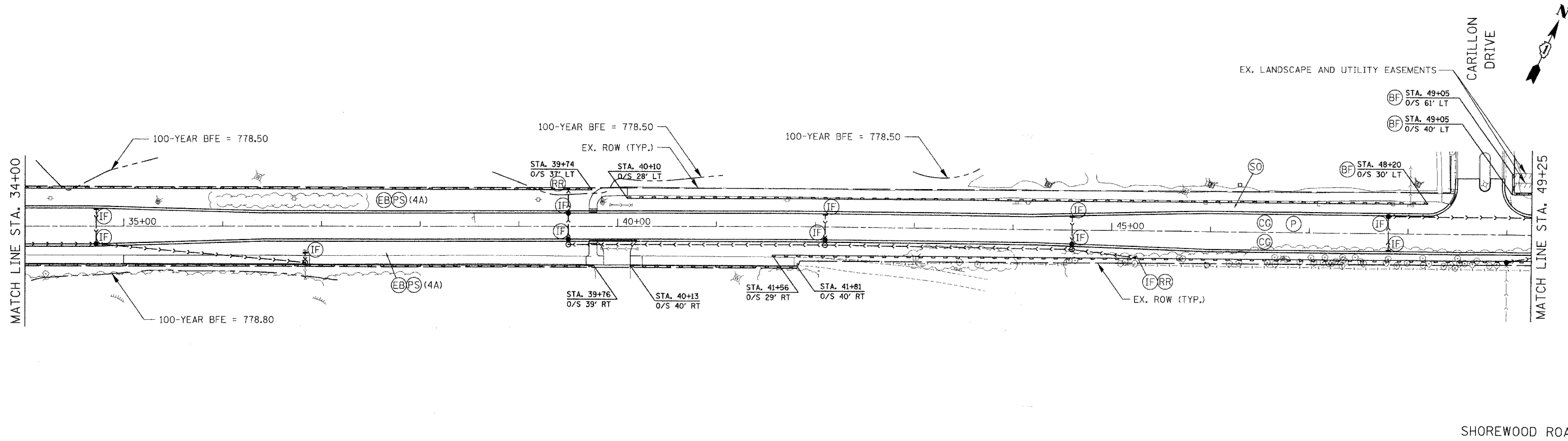
VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 EROSION CONTROL PLAN

SCALE: 1" = 50'
 DATE: 4/21/06

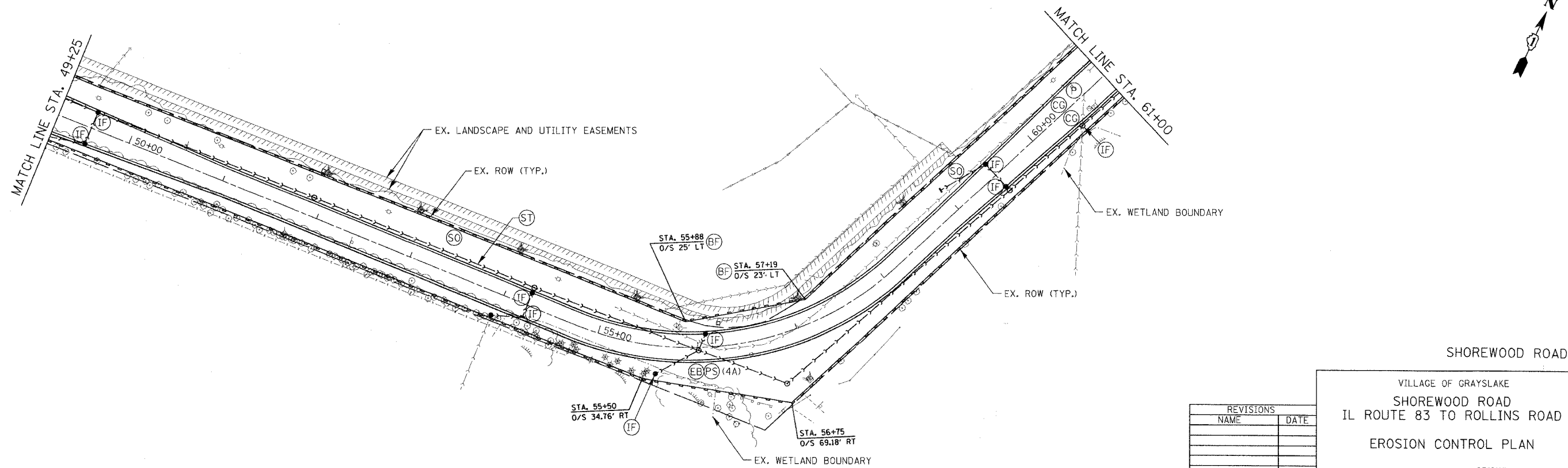
DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY:

| | | | | |
|-----------------------|----------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 26 |
| STA. 34+00 | TO STA. 61+00 | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |

| | | |
|------|----------|------|
| PLAN | SURVEYED | DATE |
| | BY | |
| | PLOTTED | |
| | CHECKED | |
| | BY | |
| | DATE | |
| | NO. | |



| | | |
|---------|----------|------|
| PROFILE | SURVEYED | DATE |
| | BY | |
| | PLOTTED | |
| | CHECKED | |
| | BY | |
| | DATE | |
| | NO. | |



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

VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 EROSION CONTROL PLAN

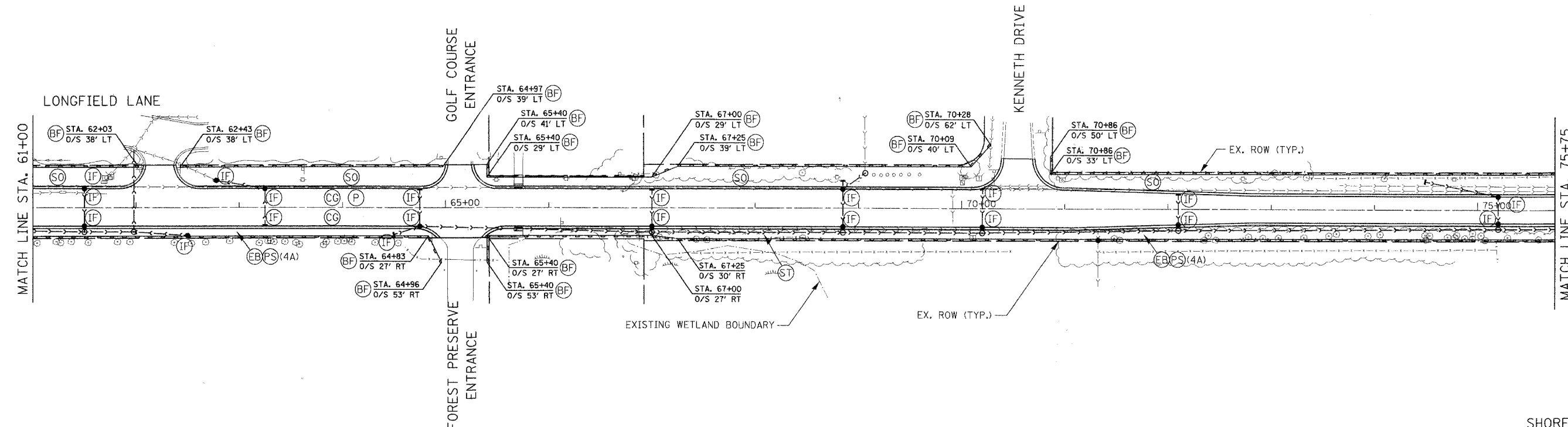
SCALE: 1" = 50'
 DATE: 4/21/06

DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY:

| | | | | |
|-----------------------|----------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 27 |
| STA. | 61+00 | TO STA. | 82+32 | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |

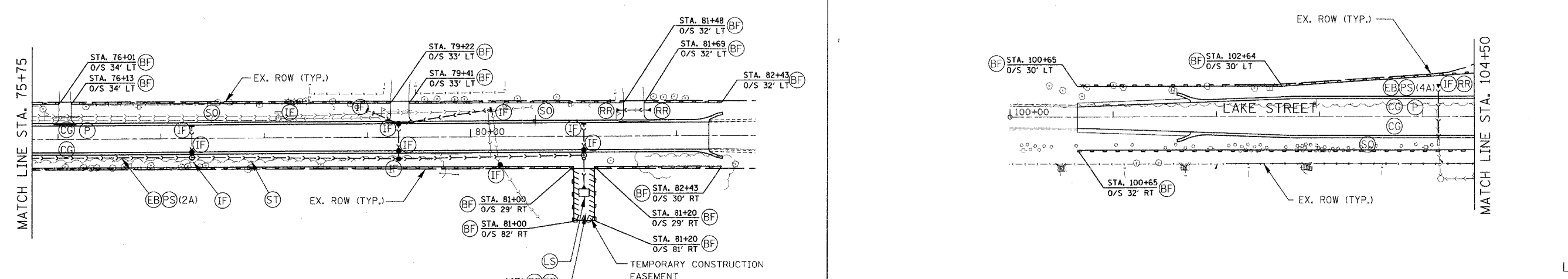


| | |
|-------------------|--|
| DATE | |
| BY | |
| PLAN | |
| SUBMITTED | |
| PLOTTED | |
| NOTED | |
| NO. OF MAY CHECKS | |
| FILE NAME | |



SHOREWOOD ROAD

| | |
|-------------------|--|
| DATE | |
| BY | |
| PROFILE | |
| SUBMITTED | |
| PLOTTED | |
| NOTED | |
| NO. OF MAY CHECKS | |
| FILE NAME | |



LAKE STREET

SHOREWOOD ROAD

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

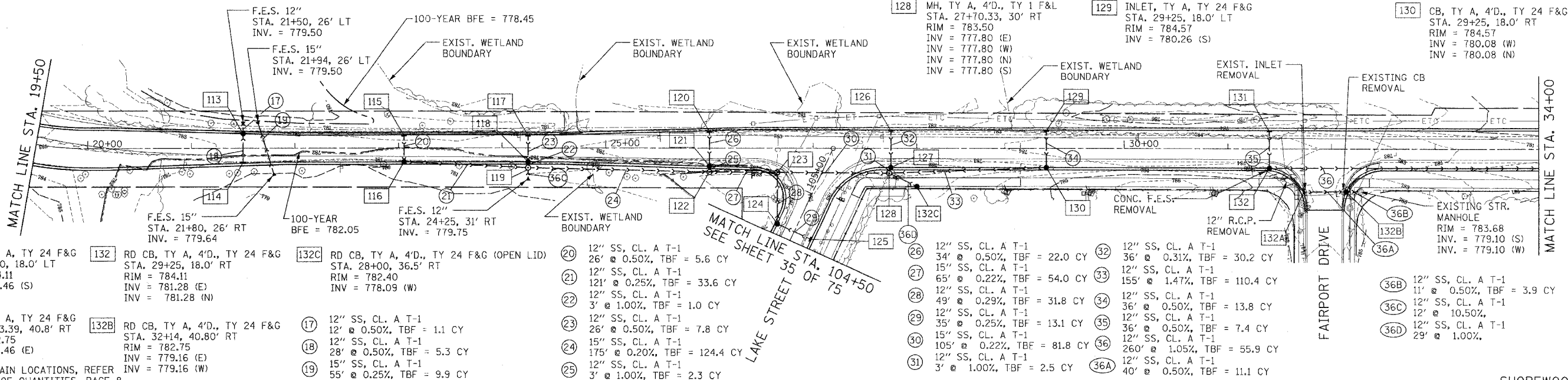
VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 EROSION CONTROL PLAN

SCALE: 1" = 50'
 DATE: 4/21/06

DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY:

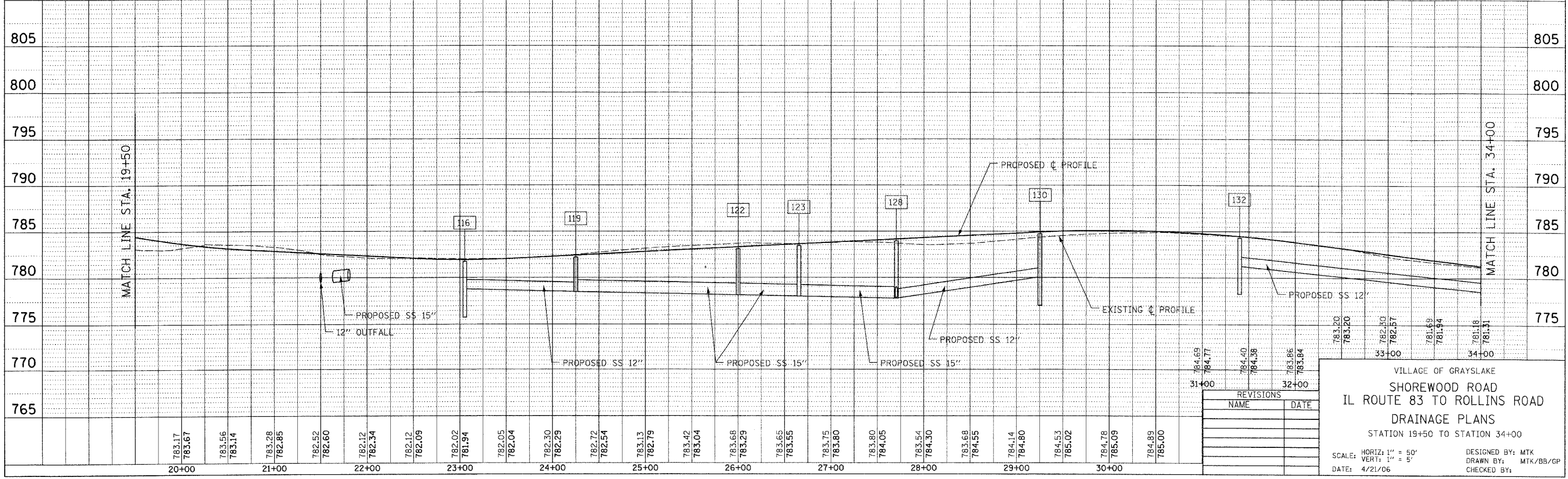
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEET NO. |
|-----------------------|---------|---------------------------|-----------------|
| 03-00052-00-PV | LAKE | LAKE | 78 31 |
| STA. 19+50 | | TO STA. 34+00 | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | |
| CONTRACT NUMBER 63002 | | | |

- 113 RD CB, TY A, 4'D., TY 24 F&G STA. 21+50, 14.22' LT RIM = 782.31 INV = 779.56 (N) INV = 779.56 (S)
- 114 INLET, TY A, TY 24 F&G STA. 21+50, 14.22' RT RIM = 782.31 INV = 779.70 (N)
- 115 INLET, TY A, TY 24 F&G STA. 23+05.28, 13.0' LT RIM = 781.68 INV = 778.92 (S)
- 116 RD CB, TY A, 4'D., TY 24 F&G STA. 23+05.28, 13.0' RT RIM = 781.68 INV = 778.79 (N) INV = 778.79 (E)
- 117 INLET, TY A, TY 24 F&G STA. 24+25, 13.0' LT RIM = 782.15 INV = 778.65 (S)
- 118 CB, TY A, 4'D., TY 24 F&G STA. 24+25, 13.0' RT RIM = 782.15 INV = 778.52 (N) INV = 778.52 (S)
- 119 MH, TY A, 4'D., TY 1 F&L STA. 24+25, 18.5' RT RIM = 782.40 INV = 778.49 (E) INV = 778.49 (W) INV = 778.49 (N) INV = 778.49 (S)
- 120 INLET, TY A, TY 24 F&G STA. 26+00, 16.97' RT RIM = 782.96 INV = 778.34 (S)
- 121 CB, TY A, 4'D., TY 24 F&G STA. 26+00, 16.97' RT RIM = 782.96 INV = 778.17 (N) INV = 778.17 (S)
- 122 MH, TY A, 4'D., TY 1 F&L STA. 26+00, 22.5' RT RIM = 784.30 INV = 778.14 (E) INV = 778.14 (W) INV = 778.14 (N)
- 123 MH, TY A, 4'D., TY 1 F&L STA. 26+65.37, 22.85' RT RIM = 783.15 INV = 778.00 (E) INV = 778.00 (W)
- 124 CB, TY A, 4'D., TY 24 F&G STA. 26+65.39, 72.25' RT RIM = 782.44 INV = 778.14 (N) INV = 778.14 (E)
- 125 INLET, TY A, TY 24 F&G STA. 26+97.96, 87.60' RT RIM = 782.44 INV = 778.22 (W)
- 126 INLET, TY A, TY 24 F&G STA. 27+75, 18.0' LT RIM = 783.82 INV = 778.01 (S)
- 127 CB, TY A, 4'D., TY 24 F&G STA. 27+75, 18.0' RT RIM = 783.82 INV = 777.83 (N) INV = 777.83 (S)
- 128 MH, TY A, 4'D., TY 1 F&L STA. 27+70.33, 30' RT RIM = 783.50 INV = 777.80 (E) INV = 777.80 (W) INV = 777.80 (N) INV = 777.80 (S)
- 129 INLET, TY A, TY 24 F&G STA. 29+25, 18.0' LT RIM = 784.57 INV = 780.26 (S)
- 130 CB, TY A, 4'D., TY 24 F&G STA. 29+25, 18.0' RT RIM = 784.57 INV = 780.08 (W) INV = 780.08 (N)



- 131 INLET, TY A, TY 24 F&G STA. 31+40, 18.0' LT RIM = 784.11 INV = 781.46 (S)
- 132 RD CB, TY A, 4'D., TY 24 F&G STA. 29+25, 18.0' RT RIM = 784.11 INV = 781.28 (E) INV = 781.28 (N)
- 132A INLET, TY A, TY 24 F&G STA. 31+73.39, 40.8' RT RIM = 782.75 INV = 779.46 (E)
- 132B RD CB, TY A, 4'D., TY 24 F&G STA. 32+14, 40.80' RT RIM = 782.75 INV = 779.16 (E) INV = 779.16 (W)
- 132C RD CB, TY A, 4'D., TY 24 F&G (OPEN LID) STA. 28+00, 36.5' RT RIM = 782.40 INV = 778.09 (W)
- 17 12" SS, CL. A T-1 12' @ 0.50%, TBF = 1.1 CY
- 18 12" SS, CL. A T-1 28' @ 0.50%, TBF = 5.3 CY
- 19 15" SS, CL. A T-1 55' @ 0.25%, TBF = 9.9 CY
- 20 12" SS, CL. A T-1 26' @ 0.50%, TBF = 5.6 CY
- 21 12" SS, CL. A T-1 12' @ 0.25%, TBF = 33.6 CY
- 22 12" SS, CL. A T-1 3' @ 1.00%, TBF = 1.0 CY
- 23 12" SS, CL. A T-1 26' @ 0.50%, TBF = 7.8 CY
- 24 15" SS, CL. A T-1 175' @ 0.20%, TBF = 124.4 CY
- 25 12" SS, CL. A T-1 3' @ 1.00%, TBF = 2.3 CY
- 26 12" SS, CL. A T-1 34' @ 0.50%, TBF = 22.0 CY
- 27 15" SS, CL. A T-1 65' @ 0.22%, TBF = 54.0 CY
- 28 12" SS, CL. A T-1 49' @ 0.29%, TBF = 31.8 CY
- 29 12" SS, CL. A T-1 35' @ 0.25%, TBF = 13.1 CY
- 30 15" SS, CL. A T-1 105' @ 0.22%, TBF = 81.8 CY
- 31 12" SS, CL. A T-1 3' @ 1.00%, TBF = 2.5 CY
- 32 12" SS, CL. A T-1 36' @ 0.31%, TBF = 30.2 CY
- 33 12" SS, CL. A T-1 155' @ 1.47%, TBF = 110.4 CY
- 34 36" @ 0.50%, TBF = 13.8 CY
- 35 12" SS, CL. A T-1 36' @ 0.50%, TBF = 7.4 CY
- 36 260' @ 1.05%, TBF = 55.9 CY
- 36A 12" SS, CL. A T-1 29' @ 1.00%
- 36B 12" SS, CL. A T-1 11' @ 0.50%, TBF = 3.9 CY
- 36C 12" SS, CL. A T-1 12' @ 10.50%
- 36D 12" SS, CL. A T-1 29' @ 1.00%

NOTE:
FOR PIPE UNDERDRAIN LOCATIONS, REFER
TO THE SCHEDULE OF QUANTITIES, PAGE B.



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

VILLAGE OF GRAYSLAKE
SHOREWOOD ROAD
IL ROUTE 83 TO ROLLINS ROAD
DRAINAGE PLANS
STATION 19+50 TO STATION 34+00

SCALE: HORIZ: 1" = 50'
VERT: 1" = 5'

DESIGNED BY: MTK
DRAWN BY: MTK/BS/GP
CHECKED BY:

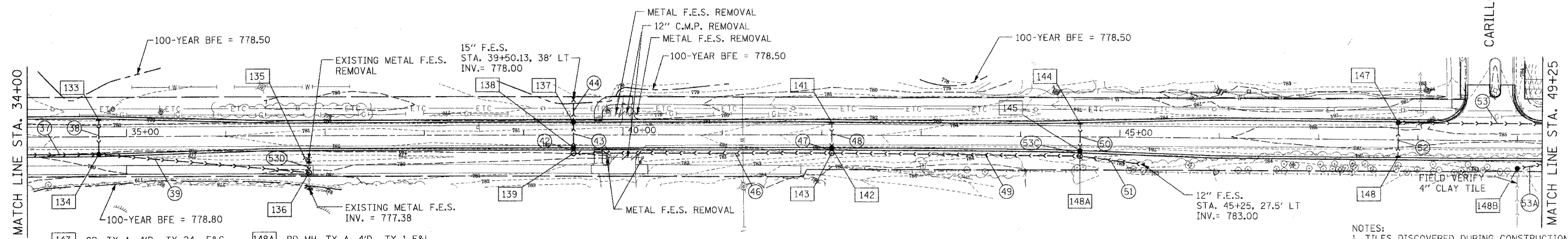
DATE: 4/21/06

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

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

| | | | | |
|-----------------------|---------|---------------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 03-00052-00-PV | LAKE | | 78 | 32 |
| STA. 34+00 | | TO STA. 49+25 | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |

- 133 INLET, TY A, TY 24 F&G STA. 34+72.05, 17.87' RT RIM = 780.55 INV = 777.97 (S)
- 134 RD CB, TY A, 4'D., TY 24 F&G STA. 34+72.05, 18' RT RIM = 780.55 INV = 777.79 (E) INV = 777.79 (W) INV = 777.79 (N)
- 135 INLET, TY A, TY 8 GRATE STA. 36+83.74, 27.0' RT RIM = 779.70 INV = 777.43 (S)
- 136 RD MH, TY A, 4'D., TY 1 F&L STA. 36+83.74, 36' RT RIM = 780.00 INV = 777.40 (N) INV = 777.40 (S)
- 137 RD CB, TY A, 4'D., TY 24 F&G STA. 39+50.13, 13.0' RT RIM = 780.99 INV = 778.06 (S)
- 138 RD CB, TY A, 4'D., TY 24 F&G STA. 39+50.13, 13' RT RIM = 780.99 INV = 778.13 (N) INV = 778.13 (S)
- 139 RD MH, TY A, 4'D., TY 1 F&L STA. 39+50.13, 18.5' RT RIM = 780.50 INV = 778.14 (E) INV = 778.14 (W)
- 141 INLET, TY A, TY 24 F&G STA. 42+10, 13.0' LT RIM = 782.72 INV = 779.71 (S)
- 142 RD CB, TY A, 4'D., TY 24 F&G STA. 42+10, 13' RT RIM = 782.72 INV = 779.64 (N) INV = 779.64 (S)
- 143 RD MH, TY A, 4'D., TY 1 F&L STA. 42+10, 18.5' RT RIM = 782.63 INV = 779.63 (E) INV = 779.63 (W)
- 144 INLET, TY A, TY 24 F&G STA. 44+60, 14.10' LT RIM = 784.57 INV = 781.23 (S)
- 145 RD CB, TY A, 4'D., TY 24 F&G STA. 44+60, 14.10' RT RIM = 784.57 INV = 781.16 (E) INV = 781.16 (W)
- 146 INLET, TY A, TY 8 GRATE STA. 45+25, 25' RT RIM = 783.00 INV = 781.50 (W)

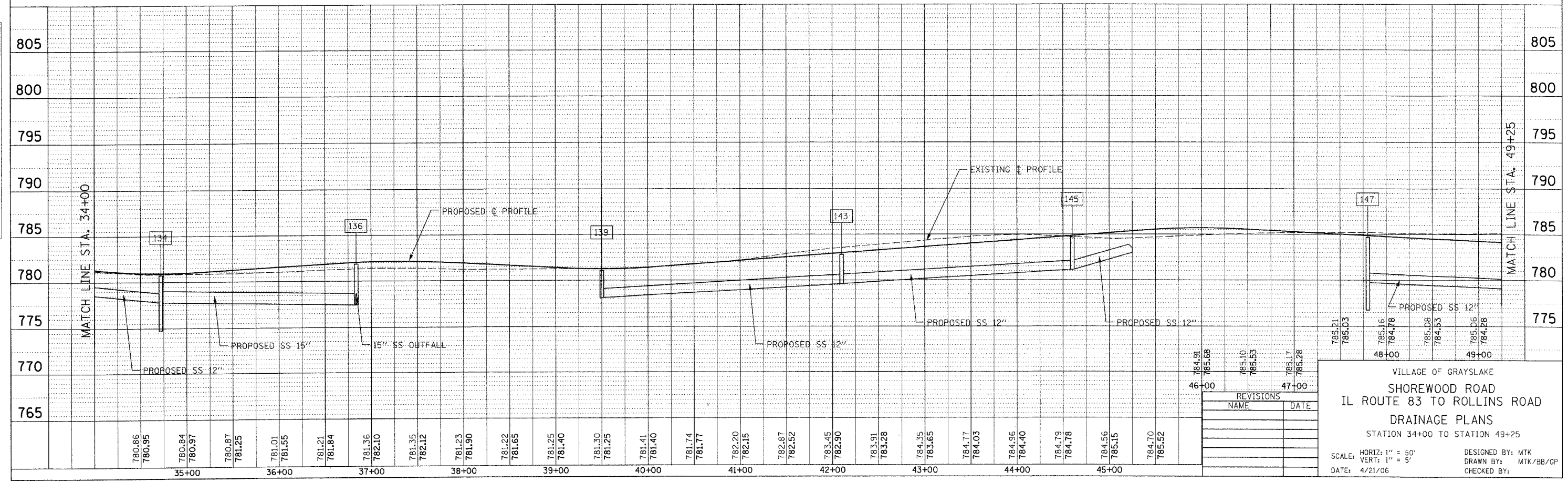


- 147 CB, TY A, 4'D., TY 24 F&G STA. 47+80, 18.0' LT RIM = 784.22 INV = 779.77 (E) INV = 779.77 (S)
- 148 INLET, TY A, TY 24 F&G STA. 47+80, 18.0' RT RIM = 784.52 INV = 779.95 (N)
- 148A RD MH, TY A, 4'D., TY 1 F&L STA. 44+60, 19.60' RT RIM = 784.77 INV = 781.15 (N) INV = 781.15 (E) INV = 781.15 (W)
- 148B RD CB, TY A, 4'D., TY 8 GRATE STA. 49+00, 28' RT RIM = 782.75 INV = 779.76
- 37 12" SS, CL. A T-1 72' @ 1.05%, TBF = 15.5 CY
- 38 12" SS, CL. A T-1 36' @ 0.50%, TBF = 7.4 CY
- 39 18" SS, CL. A T-1 212' @ 0.17%, TBF = 12.2 CY
- 42 12" SS, CL. A T-1 3' @ 0.33%, TBF = 0.6 CY
- 43 12" SS, CL. A T-1 26' @ 0.27%, TBF = 5.9 CY
- 44 15" SS, CL. A T-1 25' @ 0.24%, TBF = 0.8 CY
- 46 12" SS, CL. A T-1 260' @ 0.57%, TBF = 53.3 CY
- 47 12" SS, CL. A T-1 3' @ 0.25%, TBF = 0.7 CY
- 48 12" SS, CL. A T-1 26' @ 0.25%, TBF = 6.1 CY
- 49 12" SS, CL. A T-1 250' @ 0.60%, TBF = 67.0 CY
- 50 12" SS, CL. A T-1 28' @ 0.25%, TBF = 7.8 CY
- 51 12" SS, CL. A T-1 65' @ 2.83%, TBF = 2.9 CY
- 52 12" SS, CL. A T-1 36' @ 0.50%, TBF = 18.3 CY
- 53 12" SS, CL. A T-1 145' @ 0.44%, TBF = 91.6 CY
- 53A 12" SS, CL. A T-1 25' @ 1.00%, TBF = 3.7 CY
- 53C 12" SS, CL. A T-1 3' @ 0.25%, TBF = 0.9 CY
- 53D 12" SS, CL. A T-1 10' @ 0.25%

NOTES:
 1. TILES DISCOVERED DURING CONSTRUCTION THAT WERE NOT IDENTIFIED DURING THE INVESTIGATION SHALL BE INCORPORATED INTO THE DEVELOPED STORMWATER SYSTEM AND RECORDED INTO THE AS-BUILT DOCUMENTS. WHERE TILES ARE CONNECTED AT POINTS OF INGRESS OR EGRESS FROM THE SITE, OBSERVATION STRUCTURES SHALL BE INSTALLED.
 2. FOR PIPE UNDERDRAIN LOCATIONS, REFER TO THE SCHEDULE OF QUANTITIES, PAGE 8.

| | |
|----------|--|
| DATE | |
| BY | |
| PLANNED | |
| DESIGNED | |
| CHECKED | |
| DATE | |

| | |
|----------|--|
| DATE | |
| BY | |
| PROFILE | |
| DESIGNED | |
| CHECKED | |
| DATE | |



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

VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 DRAINAGE PLANS
 STATION 34+00 TO STATION 49+25

SCALE: HORIZ: 1" = 50'
 VERT: 1" = 5'
 DATE: 4/21/06

DESIGNED BY: MTK
 DRAWN BY: MTK/BB/CP
 CHECKED BY:

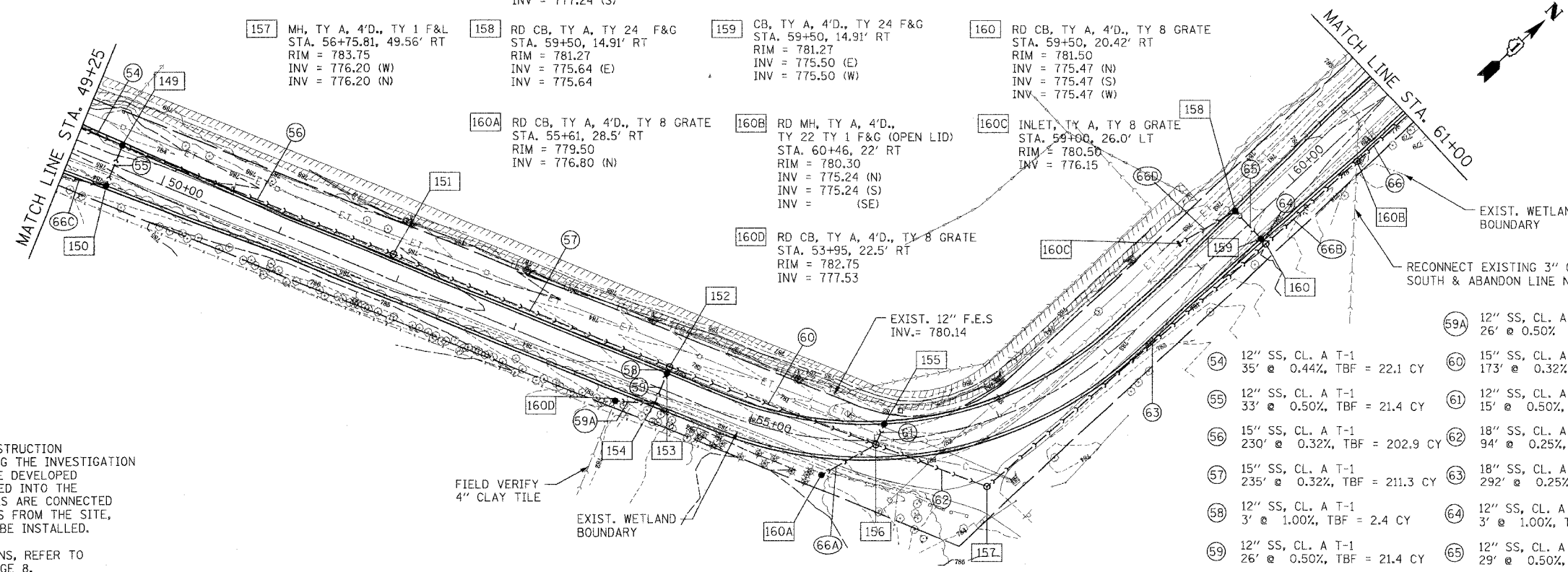
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|---------------------------|--------------|-----------|
| 03-00052-00-PV | LAKE | LAKE | 78 | 33 |
| STA. 49+25 | | TO STA. 61+00 | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |

- 149 CB, TY A, 4'D., TY 24 F&G STA. 49+60, 17' LT RIM = 783.76 INV = 778.98 (W) INV = 778.73 (E) INV = 778.98 (S)
- 150 RD CB, TY A, TY 24 F&G STA. 49+60, 17.0' RT RIM = 783.76 INV = 779.15 (N) INV = 779.15 (W)
- 151 MH, TY A, 4'D., TY 1 F&L STA. 51+90, 18.5' LT RIM = 785.00 INV = 777.99 (E) INV = 777.99 (W)
- 152 MH, TY A, 4'D., TY 1 F&L STA. 54+25, 18.5' LT RIM = 782.50 INV = 777.24 (E) INV = 777.24 (S)
- 153 CB, TY A, 4'D., TY 24 F&G STA. 54+25, 13.0' LT RIM = 783.13 INV = 777.27 (N) INV = 777.27 (S)
- 154 INLET, TY A, TY 24 F&G STA. 54+25, 13.0' RT RIM = 783.13 INV = 777.40 (N) INV = 777.40 (W)
- 155 CB, TY A, 4'D., TY 24 F&G STA. 56+08.23, 13.0' LT RIM = 781.22 INV = 776.76 (S)

- 156 MH, TY A, 4'D., TY 1 F&L STA. 56+00.80, 3.03' RT RIM = 781.70 INV = 776.68 (W) INV = 776.43 (E) INV = 776.68 (N) INV = 776.68 (S)
- 157 MH, TY A, 4'D., TY 1 F&L STA. 56+75.81, 49.56' RT RIM = 783.75 INV = 776.20 (W) INV = 776.20 (N)
- 158 RD CB, TY A, TY 24 F&G STA. 59+50, 14.91' RT RIM = 781.27 INV = 775.64 (E) INV = 775.64
- 159 CB, TY A, 4'D., TY 24 F&G STA. 59+50, 14.91' RT RIM = 781.27 INV = 775.50 (E) INV = 775.50 (W)
- 160 RD CB, TY A, 4'D., TY 8 GRATE STA. 59+50, 20.42' RT RIM = 781.50 INV = 775.47 (N) INV = 775.47 (S) INV = 775.47 (W)

- 160A RD CB, TY A, 4'D., TY 8 GRATE STA. 55+61, 28.5' RT RIM = 779.50 INV = 776.80 (N)
- 160B RD MH, TY A, 4'D., TY 22 TY 1 F&G (OPEN LID) STA. 60+46, 22' RT RIM = 780.30 INV = 775.24 (N) INV = 775.24 (S) INV = (SE)
- 160C INLET, TY A, TY 8 GRATE STA. 59+00, 26.0' LT RIM = 780.50 INV = 776.15

- 160D RD CB, TY A, 4'D., TY 8 GRATE STA. 53+95, 22.5' RT RIM = 782.75 INV = 777.53

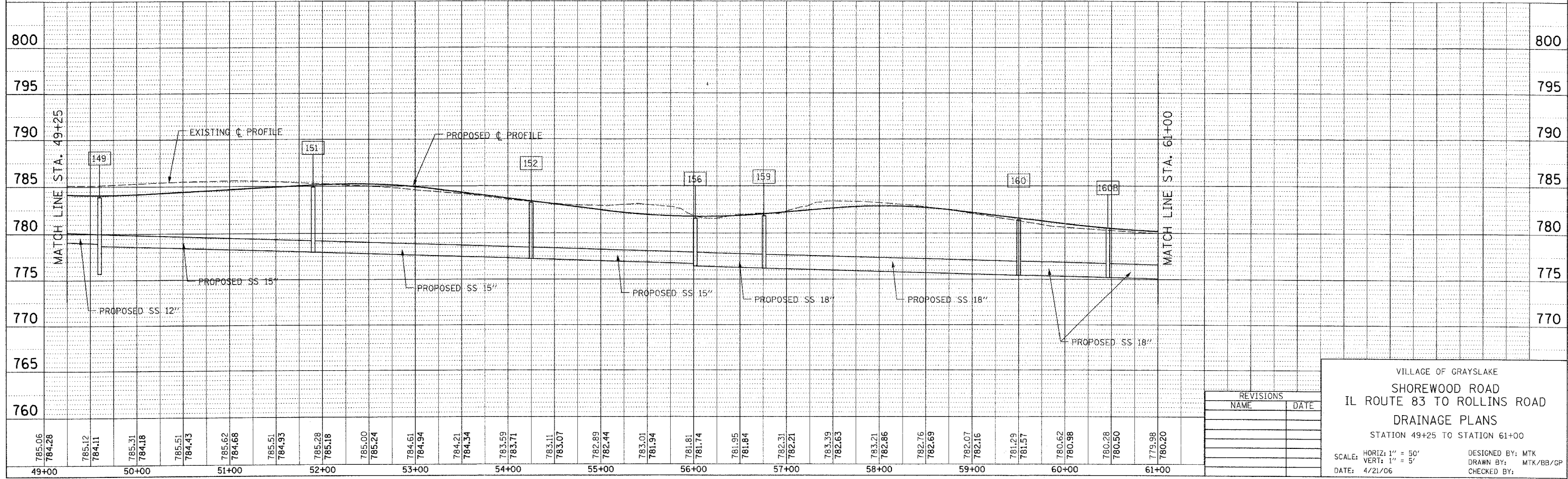


- 59A 12" SS, CL. A T-1 26' @ 0.50%
- 54 12" SS, CL. A T-1 35' @ 0.44%, TBF = 22.1 CY
- 55 12" SS, CL. A T-1 33' @ 0.50%, TBF = 21.4 CY
- 56 15" SS, CL. A T-1 230' @ 0.32%, TBF = 202.9 CY
- 57 15" SS, CL. A T-1 235' @ 0.32%, TBF = 211.3 CY
- 58 12" SS, CL. A T-1 3' @ 1.00%, TBF = 2.4 CY
- 59 12" SS, CL. A T-1 26' @ 0.50%, TBF = 21.4 CY
- 60 15" SS, CL. A T-1 173' @ 0.32%, TBF = 125.9 CY
- 61 12" SS, CL. A T-1 15' @ 0.50%, TBF = 9.7 CY
- 62 18" SS, CL. A T-1 94' @ 0.25%, TBF = 39.0 CY
- 63 18" SS, CL. A T-1 292' @ 0.25%, TBF = 204.4 CY
- 64 12" SS, CL. A T-1 3' @ 1.00%, TBF = 2.5 CY
- 65 12" SS, CL. A T-1 29' @ 0.50%, TBF = 23.4 CY
- 66 18" SS, CL. A T-1 57' @ 0.25%, TBF = 45.9 CY
- 66A 12" SS, CL. A T-1 49' @ 0.25%, TBF = 11.6 CY
- 66B 18" SS, CL. A T-1 93' @ 0.25%, TBF = 75.4 CY
- 66C 12" SS, CL. A T-1 36' @ 1.00%, TBF = 11.3 CY
- 66D 12" SS, CL. A T-1 51' @ 1.00%, TBF = 21.6 CY

NOTES:
 1. TILES DISCOVERED DURING CONSTRUCTION THAT WERE NOT IDENTIFIED DURING THE INVESTIGATION SHALL BE INCORPORATED INTO THE DEVELOPED STORMWATER SYSTEM AND RECORDED INTO THE AS-BUILT DOCUMENTS. WHERE TILES ARE CONNECTED AT POINTS OF INGRESS OR EGRESS FROM THE SITE, OBSERVATION STRUCTURES SHALL BE INSTALLED.
 2. FOR PIPE UNDERDRAIN LOCATIONS, REFER TO THE SCHEDULE OF QUANTITIES, PAGE 8.

| | |
|-----------|--|
| DATE | |
| BY | |
| REVISIONS | |
| PROFILE | |
| NOTE BOOK | |
| NO. | |

| | |
|-----------|--|
| DATE | |
| BY | |
| REVISIONS | |
| PROFILE | |
| NOTE BOOK | |
| NO. | |



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

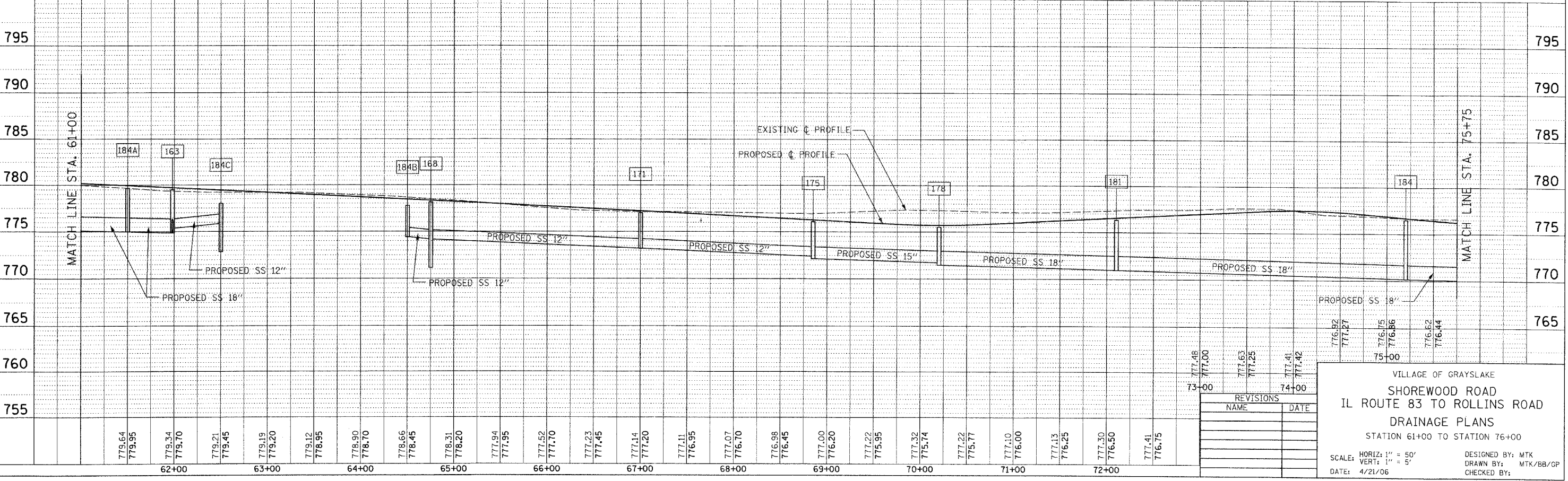
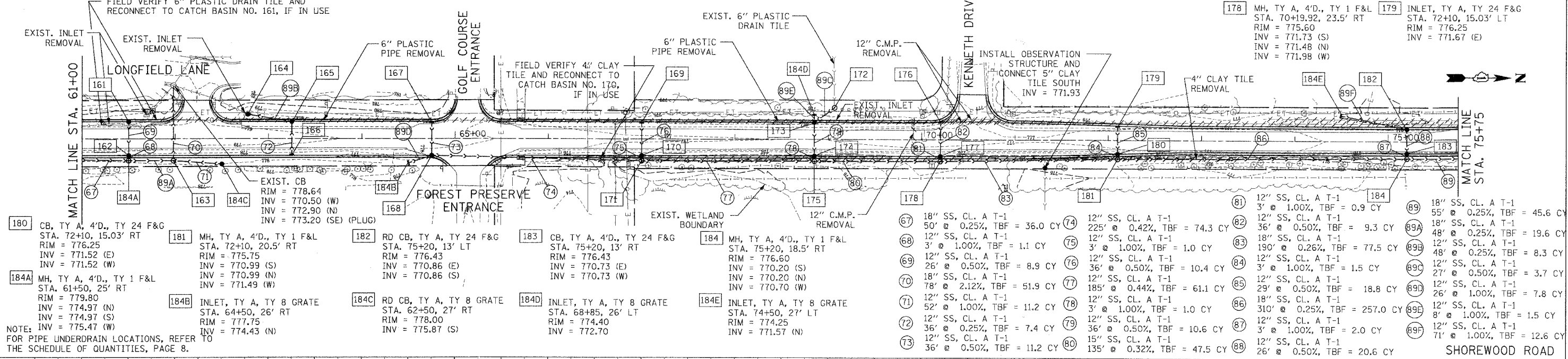
VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 DRAINAGE PLANS
 STATION 49+25 TO STATION 61+00

SCALE: HORIZ: 1" = 50'
 VERT: 1" = 5'
 DATE: 4/21/06

DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY:

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|---------|---------------------------|--------------|-----------|
| 03-0052-00-PV | | LAKE | 78 | 34 |
| STA. 61+00 | | TO STA. 76+00 | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |

- 161 CB, TY A, 4'D., TY 24 F&G STA. 61+50, 18' LT RIM = 779.59 INV = 775.63 (N)
- 162 CB, TY A, 4'D., TY 24 F&G STA. 61+50, 18' RT RIM = 779.59 INV = 775.50 (W)
- 163 RD MH, TY A, 4'D., TY 1 F&L STA. 61+98.05, 25' RT RIM = 778.75 INV = 774.85 (S)
- 164 INLET, TY A, TY 8 GRATE STA. 62+77.85, 25.84' LT RIM = 778.00 INV = 775.88 (N)
- 165 RD CB, TY A, TY 24 F&G STA. 63+25, 18' LT RIM = 778.71 INV = 776.00 (E)
- 166 INLET, TY A, 4'D., TY 24 F&G STA. 63+25, 18' RT RIM = 778.71 INV = 776.09 (W)
- 167 INLET, TY A, TY 24 F&G STA. 64+75, 18' LT RIM = 777.96 INV = 774.35 (E)
- 168 RD CB, TY A, 4'D., TY 24 F&G STA. 64+75, 18' RT RIM = 777.96 INV = 774.17 (W)
- 169 INLET, TY A, TY 24 F&G STA. 67+00, 18' LT RIM = 776.84 INV = 773.43 (E)
- 170 RD CB, TY A, 4'D., TY 24 F&G STA. 67+00, 18' RT RIM = 776.84 INV = 773.25 (E)
- 171 RD MH, TY A, 4'D., TY 1 F&L STA. 67+00, 23.5' RT RIM = 777.20 INV = 773.22 (S)
- 172 RD MH, TY A, 4'D., TY 1 F&L STA. 69+06.70, 33' LT RIM = 776.50 INV = 772.77 (W)
- 173 INLET, TY A, TY 24 F&G STA. 68+85, 18' LT RIM = 775.91 INV = 772.62 (NW)
- 174 RD CB, TY A, 4'D., TY 24 F&G STA. 68+85, 18' RT RIM = 775.91 INV = 772.44 (E)
- 175 RD MH, TY A, 4'D., TY 1 F&L STA. 68+85, 23.4' RT RIM = 776.30 INV = 772.41 (S)
- 176 INLET, TY A, TY 24 F&G STA. 70+19.92, 19.43' LT RIM = 775.33 INV = 772.19 (E)
- 177 RD CB, TY A, 4'D., TY 24 F&G STA. 70+19.92, 18' RT RIM = 775.33 INV = 772.01 (E)
- 178 MH, TY A, 4'D., TY 1 F&L STA. 70+19.92, 23.5' RT RIM = 775.60 INV = 771.73 (S)
- 179 INLET, TY A, TY 24 F&G STA. 72+10, 15.03' LT RIM = 776.25 INV = 771.67 (E)



VILLAGE OF GRAYS LAKE
SHOREWOOD ROAD
IL ROUTE 83 TO ROLLINS ROAD
DRAINAGE PLANS
STATION 61+00 TO STATION 76+00

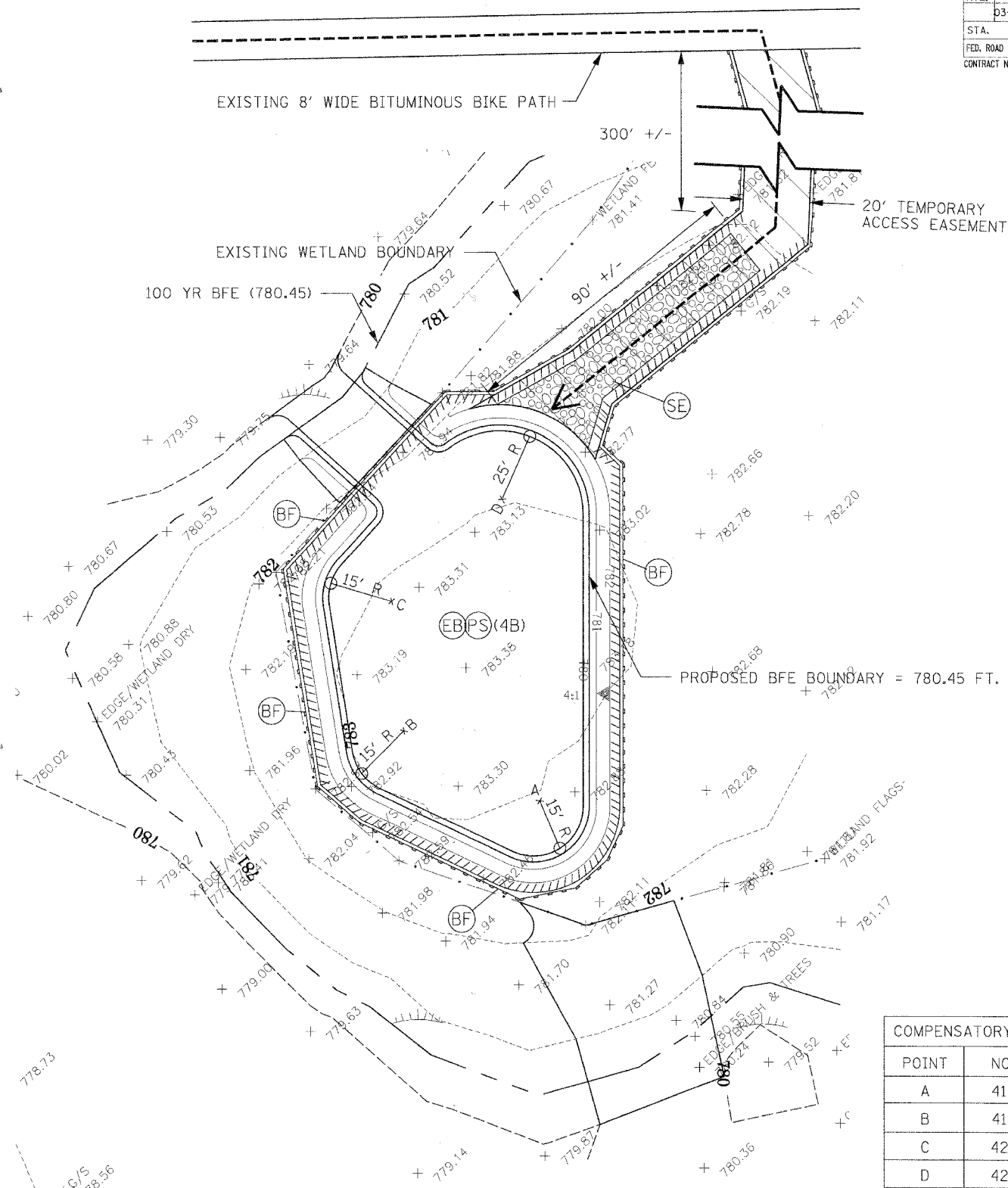
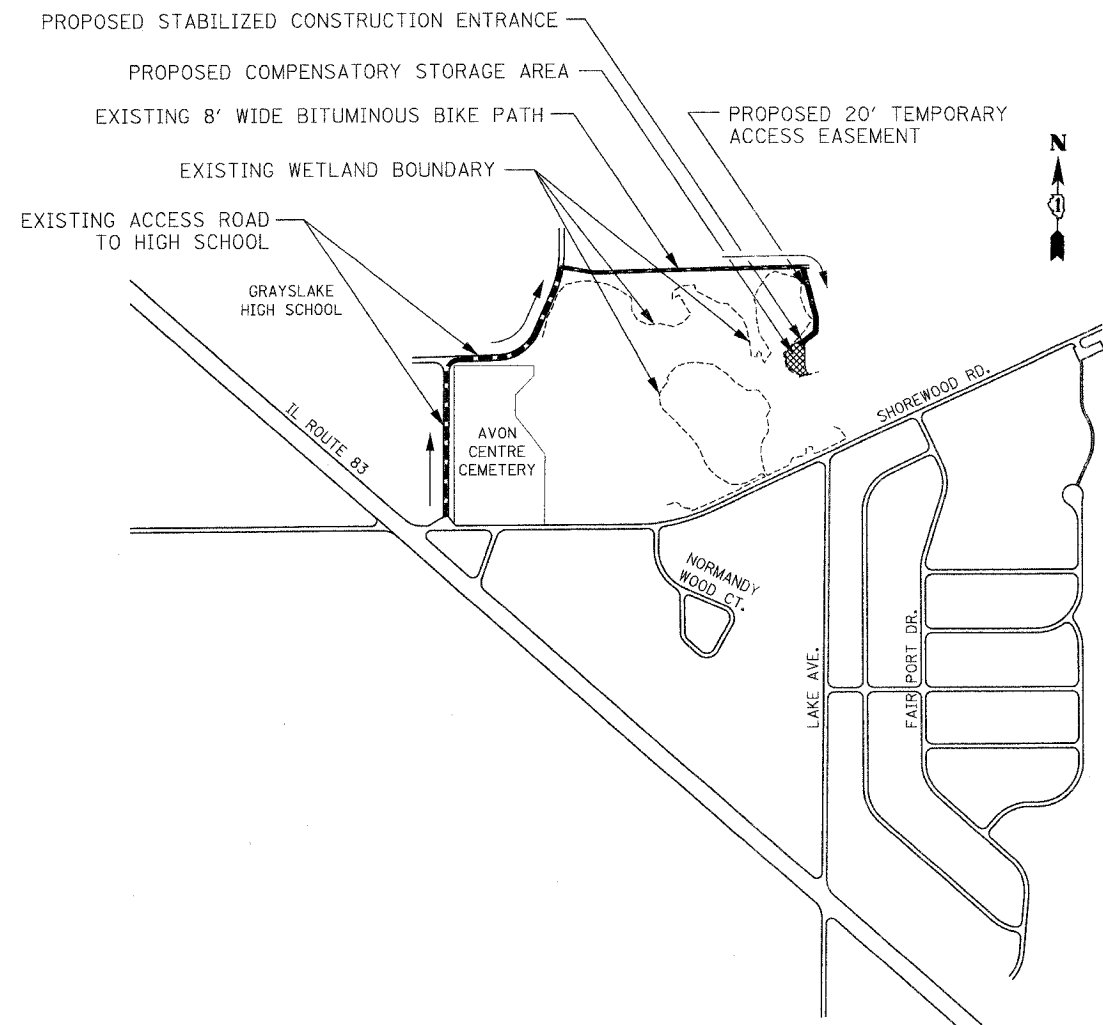
SCALE: HORIZ: 1" = 50'
VERT: 1" = 5'

DESIGNED BY: MTK
DRAWN BY: MTK/BB/GP
CHECKED BY:

DATE: 4/21/06

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

| | | | | |
|-----------------------|----------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | D3-00052-00-PV | LAKE | 78 | 36 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |



PROPOSED CONSTRUCTION ACCESS ROUTE FOR COMPENSATORY STORAGE AREA
(NTS)

TOTAL FILL = 0.17 AC-FT
TOTAL CUT = 0.08 AC-FT
REQ'D COMPENSATORY STORAGE = 0.09 AC-FT
TOTAL STORAGE PROVIDED = 0.09 AC-FT

| ELEVATION (FT) | PROVIDED STORAGE (AC-FT) |
|----------------|--------------------------|
| 780 | 0.00 |
| 780.45 | 0.09 |

EROSION CONTROL MEASURES

- (BF) BARRIER FILTER
- (EB) EROSION BLANKET
- (PS) PERMANENT SEEDING
- (SE) STABILIZED CONSTRUCTION ENTRANCE
- (4B) IDOT CLASS 4B SEEDING

NOTE:
 1. BARRIER FENCE TO BE PLACED AT LIMITS OF EASEMENT. OFFSET SHOWN FOR CLARITY.
 2. SEE SPECIAL PROVISIONS FOR TEMPORARY ACCESS REQUIREMENTS.

LEGEND

- - - EXISTING WETLAND BOUNDARY
- - - PROPOSED CONSTRUCTION ACCESS ROUTE
- ▨ TEMPORARY ACCESS EASEMENT
- ▩ PERMANENT GRADING EASEMENT

| COMPENSATORY STORAGE COORDINATES | | |
|----------------------------------|-----------|------------|
| POINT | NORTHERN | EASTING |
| A | 4165.3462 | 12259.0469 |
| B | 4187.8685 | 12199.4752 |
| C | 4245.3493 | 12190.1966 |
| D | 4289.5438 | 12250.0626 |

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

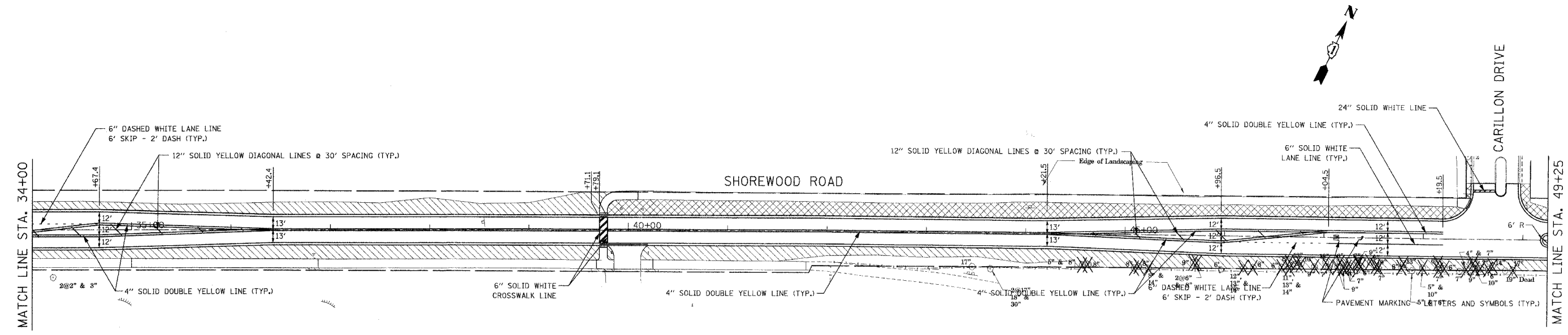
VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
COMPENSATORY STORAGE GRADING PLAN
 SCALE: 1" = 20'
 DATE: 7/28/06
 DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY: RPI

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

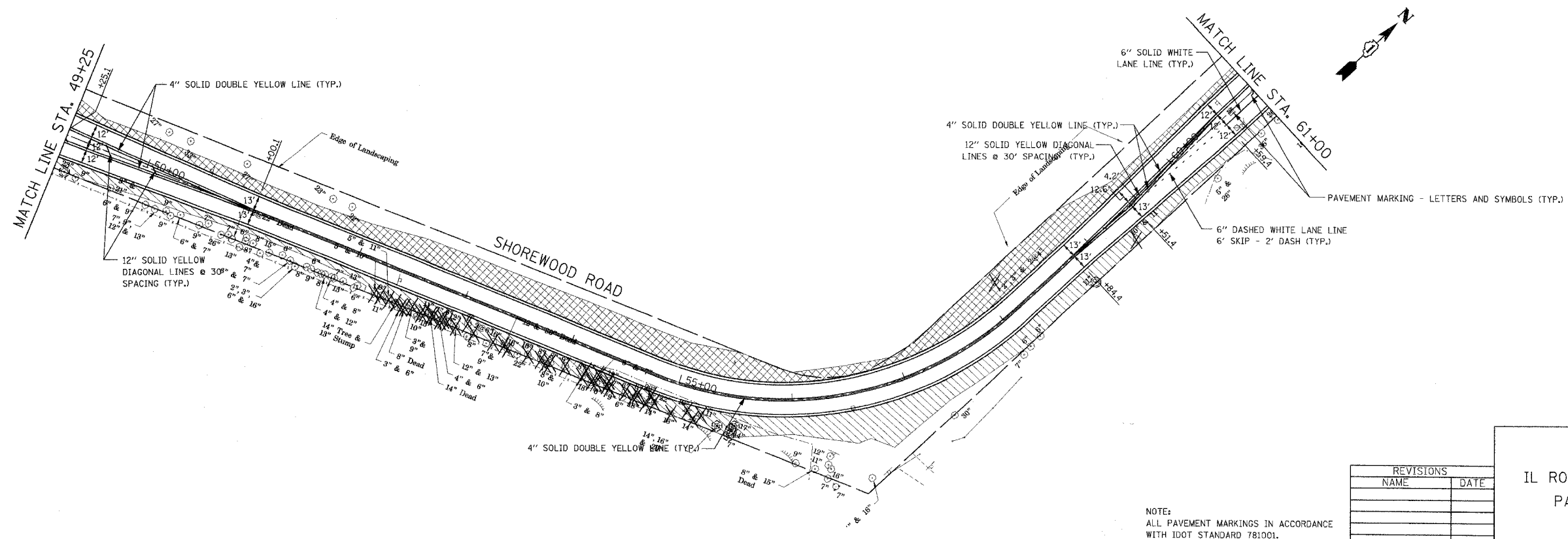
| | |
|------|----|
| DATE | BY |
| | |
| DATE | BY |
| | |

| | | | | |
|-----------------------|---------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 03-00052-00-PV | LAKE | LAKE | 78 | 38 |
| STA. 34+00 | TO STA. 61+00 | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |

| | | |
|--------------------|------|----|
| PLAN | DATE | BY |
| SURVEYED | | |
| PLOTTED | | |
| INSTRUMENTED | | |
| BY | | |
| NO. OF MAX CHECKED | | |
| CAD FILE NAME | | |



| | | |
|------------------------|------|----|
| PROFILE | DATE | BY |
| SURVEYED | | |
| PLOTTED | | |
| INSTRUMENTED | | |
| BY | | |
| NO. OF MAX CHECKED | | |
| STRUCTURE NOTATION CRD | | |



- LEGEND**
- X TREE REMOVAL
 - ⊗ TREE TRUNK PROTECTION
 - ▨ SODDING, SALT TOLERANT
 - ▨ SEEDING, CLASS 2A
 - ▨ SEEDING, CLASS 4A
 - ▨ SEEDING, CLASS 4B

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

VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 PAVEMENT MARKING AND
 LANDSCAPING PLAN

SCALE: 1"= 50'
 DATE: 4/21/06

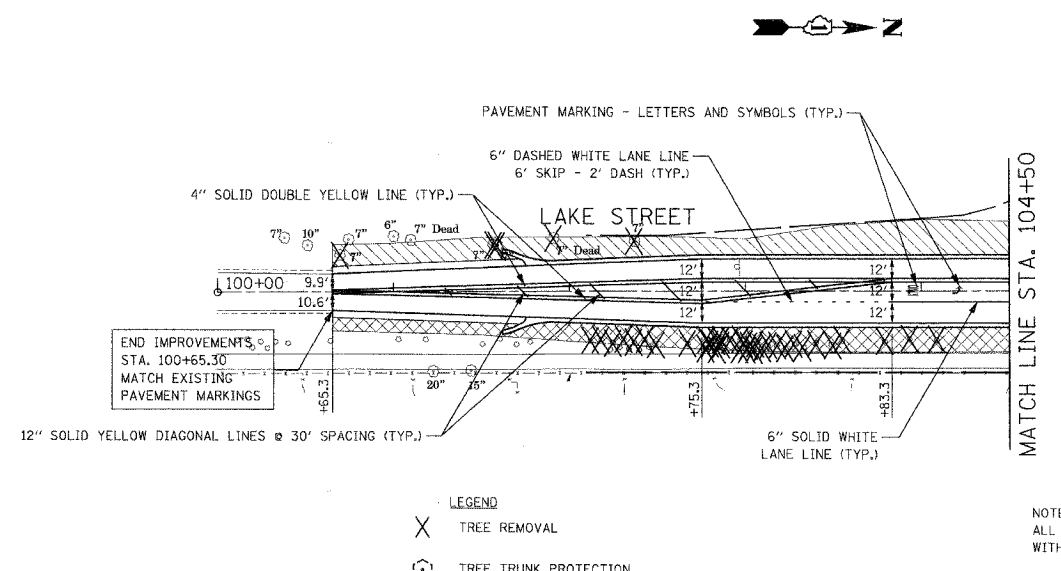
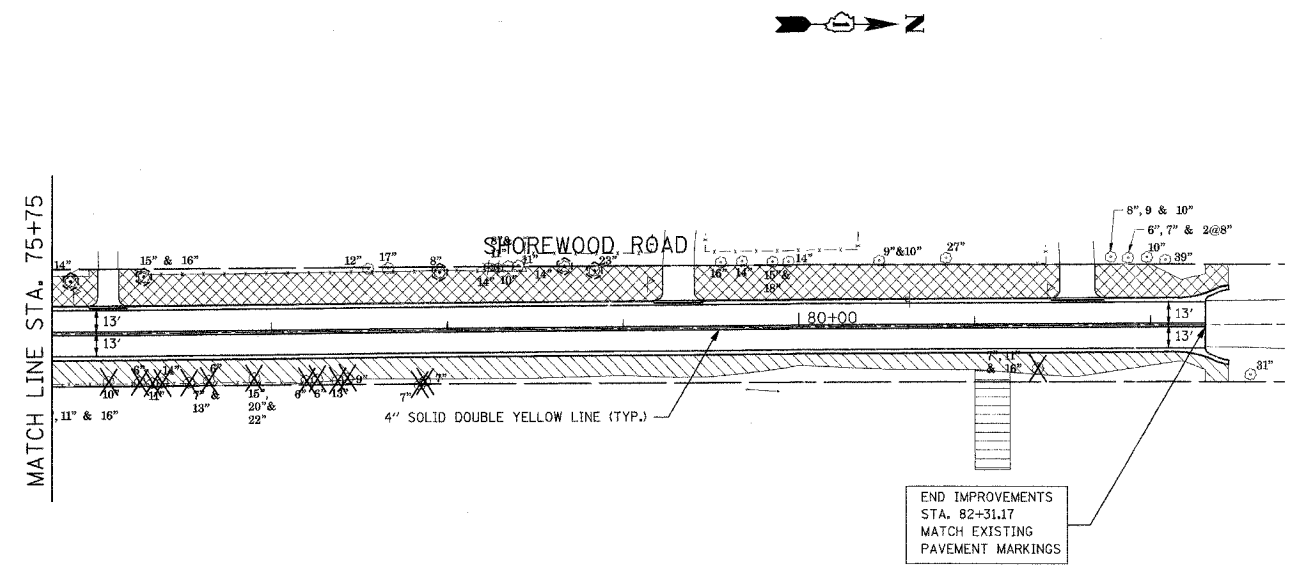
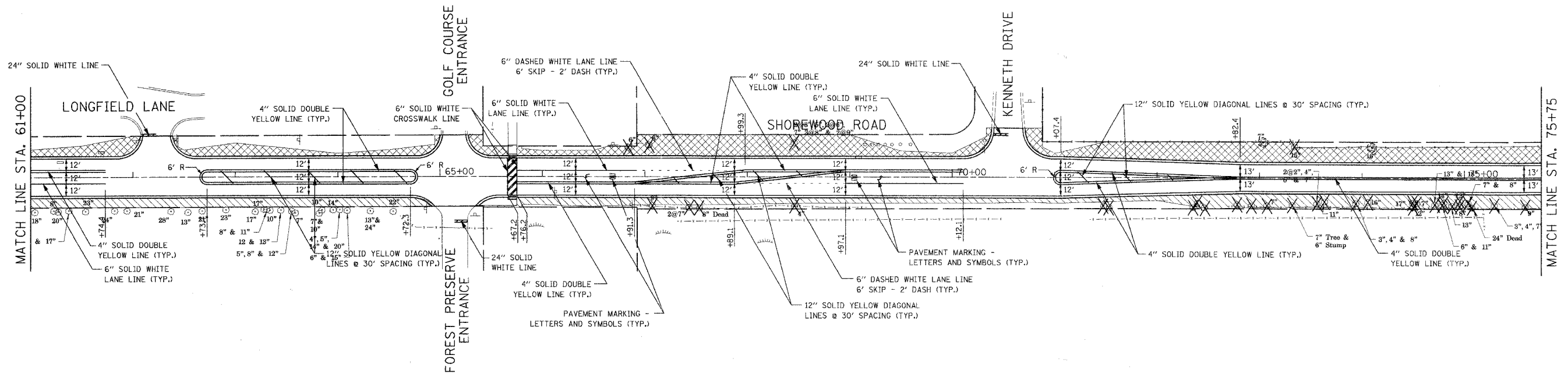
DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY:

NOTE:
 ALL PAVEMENT MARKINGS IN ACCORDANCE
 WITH IDOT STANDARD 781001.

| | | | | |
|-----------------------|---------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| D3-00052-00-PV | LAKE | LAKE | 78 | 39 |
| STA. 61+00 | TO STA. 82+32 | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |
| CONTRACT NUMBER 63002 | | | | |

| | | | |
|------|----------|----|------|
| PLAN | SURVEYED | BY | DATE |
| | PLOTTED | | |
| | CHECKED | | |
| | BY | | |
| | NO. | | |

| | | | |
|---------|----------|----|------|
| PROFILE | SURVEYED | BY | DATE |
| | PLOTTED | | |
| | CHECKED | | |
| | BY | | |
| | NO. | | |



- LEGEND
- X TREE REMOVAL
 - TREE TRUNK PROTECTION
 - ▨ SODDING, SALT TOLERANT
 - ▧ SEEDING, CLASS 2A
 - ▩ SEEDING, CLASS 4A
 - SEEDING, CLASS 4B

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

VILLAGE OF GRAYSLAKE
 SHOREWOOD ROAD
 IL ROUTE 83 TO ROLLINS ROAD
 PAVEMENT MARKING AND
 LANDSCAPING PLAN

SCALE: 1" = 50'
 DATE: 4/21/06

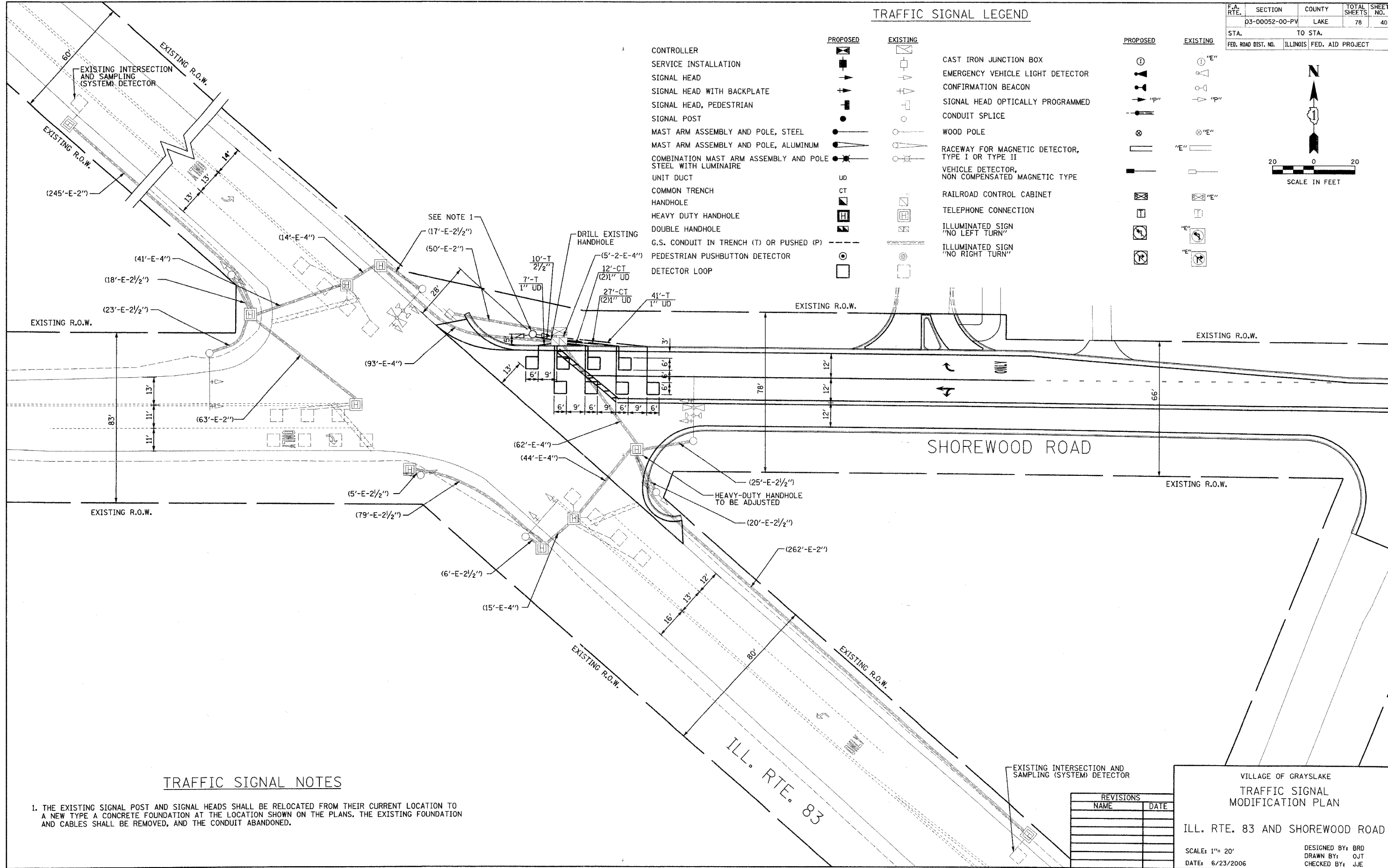
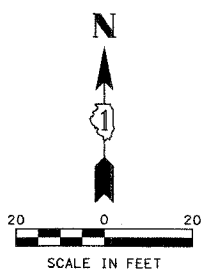
DESIGNED BY: MTK
 DRAWN BY: MTK/BB/GP
 CHECKED BY:

NOTE:
 ALL PAVEMENT MARKINGS IN ACCORDANCE
 WITH IDOT STANDARD 781001.

| | | | | |
|---------------------|----------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 03-00052-00-PV | LAKE | | 78 | 40 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

TRAFFIC SIGNAL LEGEND

| | | | | | |
|---|----------|----------|--|----------|----------|
| CONTROLLER | PROPOSED | EXISTING | CAST IRON JUNCTION BOX | PROPOSED | EXISTING |
| SERVICE INSTALLATION | | | EMERGENCY VEHICLE LIGHT DETECTOR | | |
| SIGNAL HEAD | | | CONFIRMATION BEACON | | |
| SIGNAL HEAD WITH BACKPLATE | | | SIGNAL HEAD OPTICALLY PROGRAMMED | | |
| SIGNAL HEAD, PEDESTRIAN | | | CONDUIT SPLICE | | |
| SIGNAL POST | | | WOOD POLE | | |
| MAST ARM ASSEMBLY AND POLE, STEEL | | | RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | |
| MAST ARM ASSEMBLY AND POLE, ALUMINUM | | | VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE | | |
| COMBINATION MAST ARM ASSEMBLY AND POLE STEEL WITH LUMINAIRE | | | RAILROAD CONTROL CABINET | | |
| UNIT DUCT | UD | | TELEPHONE CONNECTION | | |
| COMMON TRENCH | CT | | ILLUMINATED SIGN "NO LEFT TURN" | | |
| HANDHOLE | | | ILLUMINATED SIGN "NO RIGHT TURN" | | |
| HEAVY DUTY HANDHOLE | | | | | |
| DOUBLE HANDHOLE | | | | | |
| G.S. CONDUIT IN TRENCH (T) OR PUSHED (P) | T/P | | | | |
| PEDESTRIAN PUSHBUTTON DETECTOR | | | | | |
| DETECTOR LOOP | | | | | |



TRAFFIC SIGNAL NOTES

1. THE EXISTING SIGNAL POST AND SIGNAL HEADS SHALL BE RELOCATED FROM THEIR CURRENT LOCATION TO A NEW TYPE A CONCRETE FOUNDATION AT THE LOCATION SHOWN ON THE PLANS. THE EXISTING FOUNDATION AND CABLES SHALL BE REMOVED, AND THE CONDUIT ABANDONED.

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

VILLAGE OF GRAYSLAKE
 TRAFFIC SIGNAL
 MODIFICATION PLAN
 ILL. RTE. 83 AND SHOREWOOD ROAD

SCALE: 1"= 20'
 DATE: 6/23/2006

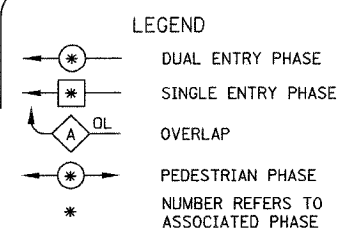
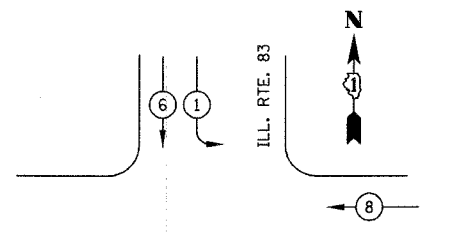
DESIGNED BY: BRD
 DRAWN BY: OJT
 CHECKED BY: JJE

PLAN
 DATE: _____
 BY: _____
 CHECKED: _____
 DATE: _____

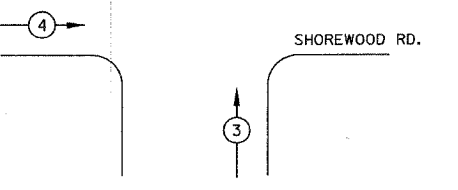
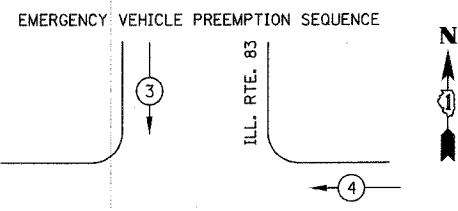
PROFILE
 DATE: _____
 BY: _____
 CHECKED: _____
 DATE: _____

PLANS PREPARED BY:

CONTROLLER SEQUENCE



PHASE DESIGNATION DIAGRAM



| EMERGENCY VEHICLE PREEMPTORS | | |
|------------------------------|---|---|
| EMERGENCY VEHICLE PREEMPTOR | 3 | 4 |
| MOVEMENT | ← | → |

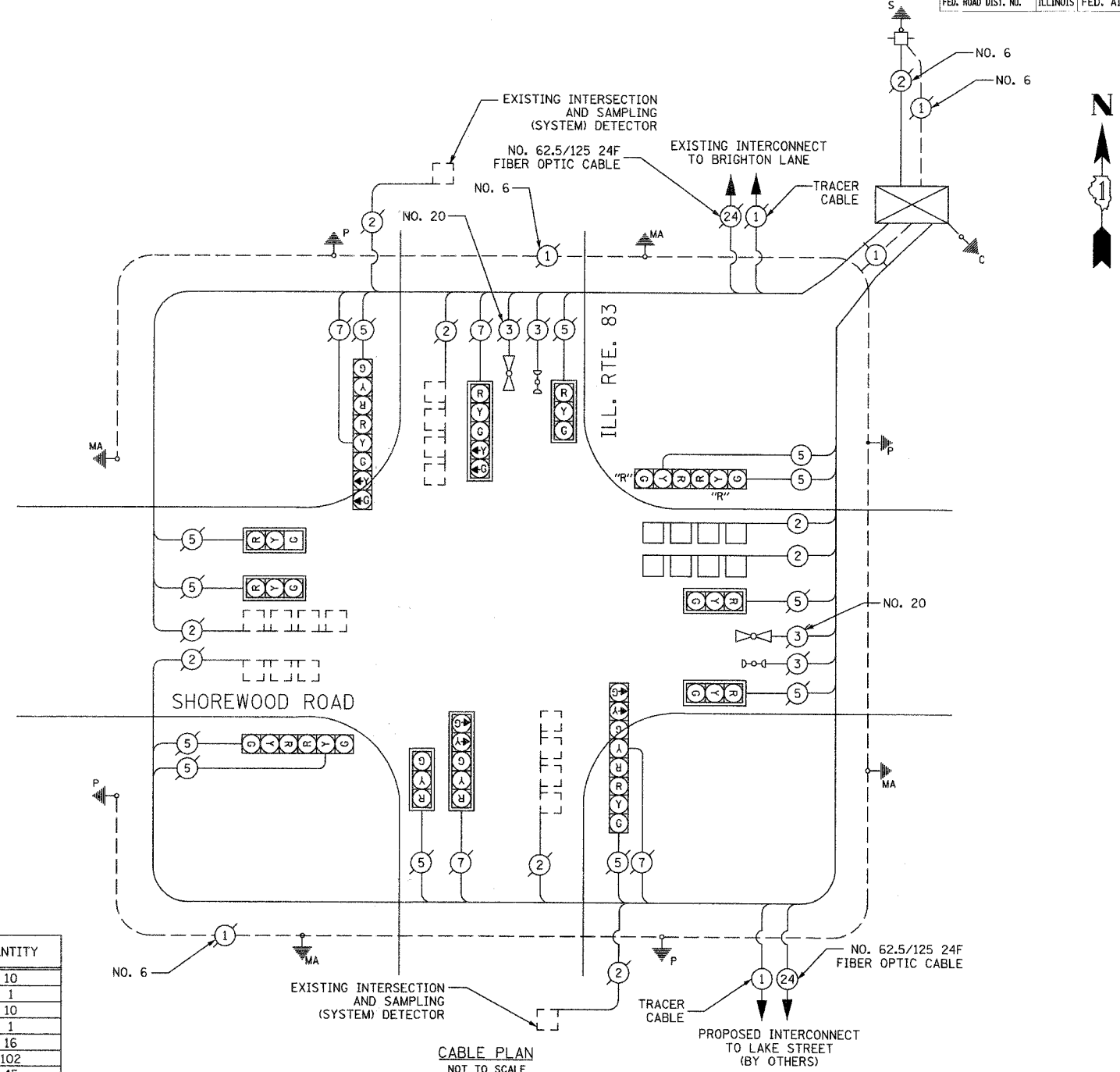
CABLE PLAN LEGEND

- | | | | |
|----------|----------|-------------|---|
| EXISTING | PROPOSED | | |
| | | 8" (200mm) | TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) | TRAFFIC SIGNAL SECTION |
| | | 12" (300mm) | PEDESTRIAN SIGNAL SECTION |
| | | 12" (300mm) | PEDESTRIAN SIGNAL SECTION |
| | | | CONTROLLER CABINET |
| | | | SERVICE INSTALLATION |
| | | | TELEPHONE CONNECTION |
| | | | MAGNETIC DETECTOR |
| | | | EMERGENCY VEHICLE LIGHT DETECTOR |
| | | | CONFIRMATION BEACON |
| | | | PUSHBUTTON DETECTOR |
| | | | VEHICLE DETECTOR, INDUCTION LOOP |
| | | | MICROWAVE VEHICLE SENSOR |
| | | | SIGNAL FACE WITH BACKPLATE, "P" INDICATES PROGRAMMED HEAD |
| | | | RAILROAD CONTROL CABINET |
| | | | ILLUMINATED SIGN "NO LEFT TURN" |
| | | | ILLUMINATED SIGN "NO RIGHT TURN" |
| | | | GROUND ROD AT HANDHOLE (H), DOUBLE HANDHOLE (H), OR CONTROLLER (C). |
| | | | GROUND ROD AT POST (P), OR MAST ARM POLE (MA). |
| | | | GROUND ROD AT ELECTRIC SERVICE INSTALLATION |
| | | | GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN) |
| | | | FIBER OPTIC CABLE IN CONDUIT NO. 62.5/125 2-MM12F SM12F |
| | | | "R" RELOCATED SIGNAL EQUIPMENT |

SCHEDULE OF QUANTITIES

| PAY ITEM | UNIT | QUANTITY |
|---|------|----------|
| CONDUIT IN TRENCH, 2 1/2" DIA., GALVANIZED STEEL | FOOT | 10 |
| HEAVY-DUTY HANDHOLE TO BE ADJUSTED | EACH | 1 |
| TRENCH AND BACKFILL FOR ELECTRICAL WORK | FOOT | 10 |
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, GROUNDING, NO. 6 1C | FOOT | 16 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 102 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 45 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 4 |
| DRILL EXISTING HANDHOLE | EACH | 1 |
| INDUCTIVE LOOP DETECTOR | EACH | 2 |
| DETECTOR LOOP, TYPE I | FOOT | 264 |
| RELOCATE EXISTING SIGNAL HEAD | EACH | 2 |
| RELOCATE EXISTING TRAFFIC SIGNAL POST | EACH | 1 |
| REMOVE ELECTRIC CABLE FROM CONDUIT | EACH | 163 |
| REMOVE EXISTING CONCRETE FOUNDATION | EACH | 1 |

| FOUNDATION (DEPTH) | FT. (m) | CABLE SLACK | FT. (m) | VERTICAL | FT. (m) |
|--------------------|----------|------------------|-----------|-------------------|-------------------------|
| TYPE A - POST | 4 (1.2) | HANDHOLE | 6.5 (2.0) | ALL FOUNDATIONS | 3.5 (2.0) |
| D- CONTROLLER | 4 (1.2) | DOUBLE HANDHOLE | 13 (4.0) | MAST ARM (L) POLE | 20'+L-2'= 6m+L-0.6m= |
| E- M. ARM POLE | | SIGNAL POST | 2 (0.6) | BRACKET MOUNTED | 13 (4.0) |
| 24" (600mm) | 10 (3.0) | CONTROLLER CAB. | 1 (0.5) | PED. PUSHBUTTON | 4 (1.2) |
| 30" (750mm) | 15 (4.6) | FIBER OPTIC | 13 (4.0) | ELECTRIC SERVICE | 13.5 (4.1) |
| | | ELECTRIC SERVICE | 1 (0.5) | SERVICE TO GROUND | 13.5 (4.1) |
| | | GROUND CABLE | 1 (0.5) | POST MOUNTED | 6 (1.8) |



TRAFFIC SIGNAL INSTALLATION ELECTRICAL SERVICE REQUIREMENTS

| TYPE | NO. LAMPS | WATTAGE INCAND. | LED | % OPERATION | TOTAL WATTAGE |
|--------------|-----------|-----------------|-----|-------------|---------------|
| SIGNAL (RED) | 16 | | 17 | 0.50 | 136 |
| (YELLOW) | 16 | | 25 | 0.25 | 100 |
| (GREEN) | 16 | | 15 | 0.25 | 60 |
| ARROW | 8 | | 12 | 0.10 | 10 |
| PED SIGNAL | | | 25 | 1.00 | |
| CONTROLLER | 1 | | 100 | 1.00 | 100 |
| ILLUM. SIGN | | 84 | | 0.05 | |
| FLASHER | | | | 0.50 | |
| TOTAL = | | | | | 406 |

ENERGY COSTS TO: ILLINOIS DEPARTMENT OF TRANSPORTATION
201 W. CENTER CT.
SCHAUMBURG, IL 60196

ENERGY SUPPLY: CONTACT: TERRY COLLARD
PHONE: (847) 816-5472
COMPANY: COMMONWEALTH EDISON

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

VILLAGE OF GRAYSLAKE
TRAFFIC SIGNAL CABLE PLAN,
SEQUENCE OF OPERATIONS,
AND SCHEDULE OF QUANTITIES
ILL. RTE. 83 AND SHOREWOOD ROAD

SCALE: NONE
DATE: 6/23/2006

DESIGNED BY: BRD
DRAWN BY: BRD
CHECKED BY: JUE

DATE: _____ BY: _____
CHECKED: _____
PLANNED: _____
NOTE BOOK: _____
NO. _____

DATE: _____ BY: _____
CHECKED: _____
PLANNED: _____
NOTE BOOK: _____
NO. _____

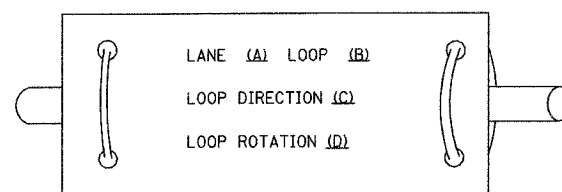
PLANS PREPARED BY: CIVILTECH

| | | | | |
|-----------------------|----------------|----------|------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 42 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS | FED. AID PROJECT | |

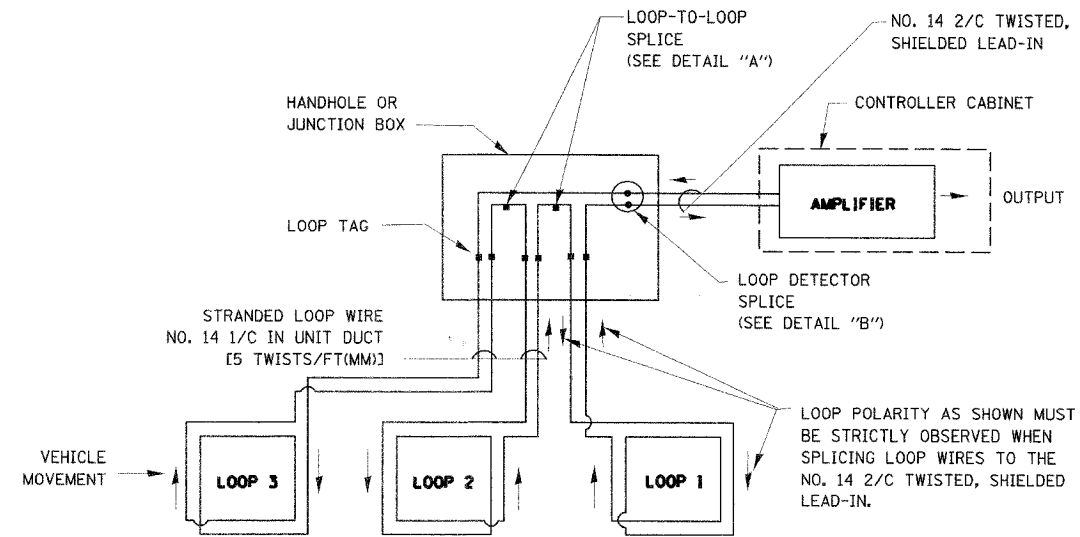
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE UNIT DUCT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). UNIT DUCT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVEHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

LOOP LEAD-IN CABLE TAG

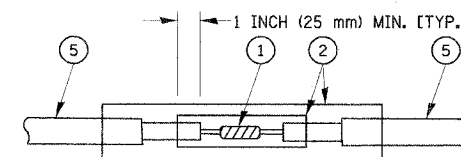


- LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

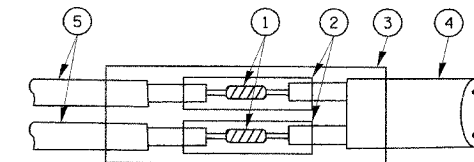


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES.
- SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE, THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- WCSMW 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.

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

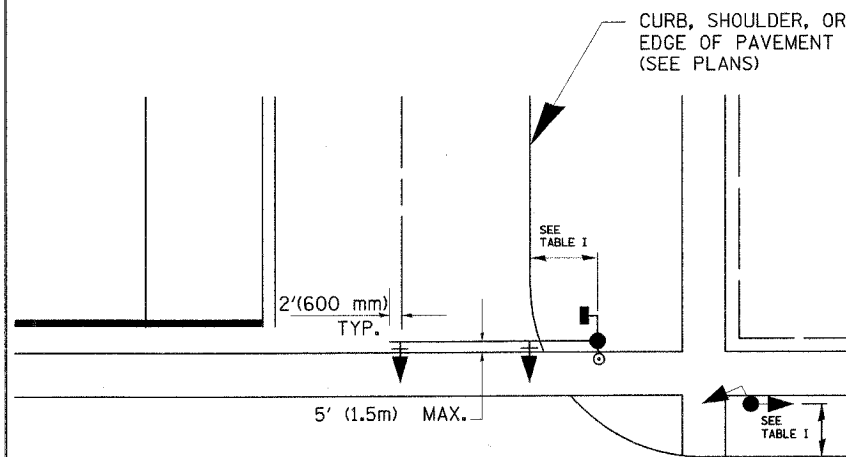
ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

SCALE: VERT. NONE
HORIZ. NONE
DATE 1-01-02

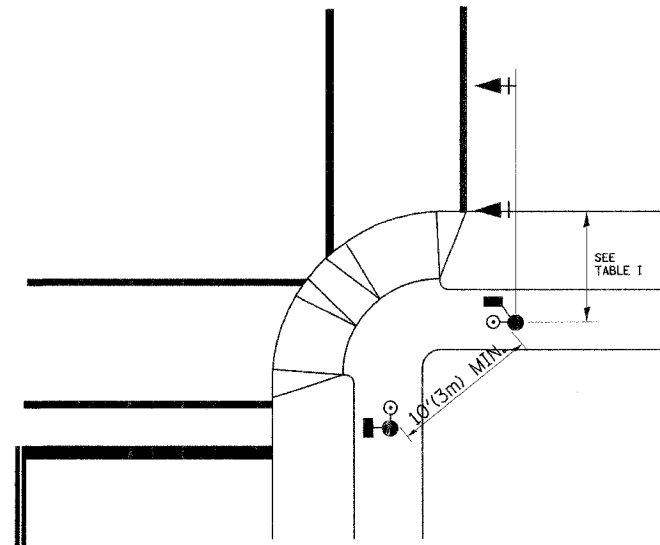
DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 1 OF 4

TRAFFIC SIGNAL MAST ARM AND POST

MAST ARM MOUNTED SIGNAL IN PROPOSED & FUTURE SIDEWALK AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNAL AND PUSHBUTTON DETECTOR



PEDESTRIAN SIGNAL PUSHBUTTON



RECOMMENDED PUSHBUTTON LOCATIONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHALL BE IN ACCORDANCE WITH THE CURRENT MUTCD (SEE NOTE 1). TO MEET MUTCD REQUIREMENTS, PEDESTRIAN SIGNAL PUSHBUTTONS MAY HAVE TO BE MOUNTED ON A SEPARATE POST.

NOTES:

- AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS WITH PEDESTRIAN ACTUATION, EACH PUSHBUTTON SHALL ACTIVATE BOTH THE WALK INTERVAL AND THE ACCESSIBLE PEDESTRIAN SIGNALS.
 AT ACCESSIBLE PEDESTRIAN SIGNAL LOCATIONS, PUSHBUTTONS SHOULD CLEARLY INDICATE WHICH CROSSWALK SIGNAL IS ACTUATED BY EACH PUSHBUTTON. PUSHBUTTONS AND TACTILE ARROWS SHOULD HAVE HIGH VISUAL CONTRAST (SEE THE DEPARTMENT OF JUSTICE'S AMERICANS WITH DISABILITIES ACT STANDARDS FOR ACCESSIBLE DESIGN, 1991). TACTILE ARROWS SHOULD POINT IN THE SAME DIRECTION AS THE ASSOCIATED CROSSWALK. AT CORNERS OF SIGNALIZED LOCATIONS WITH ACCESSIBLE PEDESTRIAN SIGNALS WHERE PEDESTRIAN PUSHBUTTONS ARE PROVIDED, THE PUSHBUTTONS SHOULD BE SEPARATED BY THE DISTANCE OF AT LEAST 10 FT (3m). THIS ENABLES PEDESTRIANS WHO HAVE VISUAL DISABILITIES TO DISTINGUISH AND LOCATE THE APPROPRIATE PUSHBUTTON.
 PUSHBUTTONS FOR ACCESSIBLE PEDESTRIAN SIGNALS SHOULD BE LOCATED AS FOLLOWS:
 A: ADJACENT TO A LEVEL ALL-WEATHER SURFACE TO PROVIDE ACCESS FROM A WHEELCHAIR, AND WHERE THERE IS AN ALL WEATHER SURFACE, WHEELCHAIR ACCESSIBLE ROUTE TO THE RAMP.
 B: WITHIN 5 FT (1.5m) OF THE CROSSWALK EXTENDED.
 C: WITHIN 10 FT (3m) OF THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
 D: PARALLEL TO THE CROSSWALK TO BE USED (SEE MUTCD FIGURE 4E-2).
 E: NORMAL PEDESTRIAN PUSHBUTTON MOUNTING HEIGHT SHOULD BE 3.5 FT (1.05m) ABOVE ADJACENT SIDEWALK
- PEDESTRIAN SIGNAL FACES SHALL BE MOUNTED WITH THE BOTTOM OF THE HOUSING NOT LESS THAN 8 FT (2.4m) NOR MORE THAN 10 FT (3.0m) ABOVE THE SIDEWALK LEVEL AND SO THERE IS A PEDESTRIAN INDICATION IN THE LINE OF PEDESTRIANS' VISION WHICH PERTAINS TO THE CROSSWALK BEING USED.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, NOT MOUNTED OVER A ROADWAY, SHALL BE AT LEAST 10 FT (3.0m) BUT NOT MORE THAN 15 FT (4.5m) ABOVE THE SIDEWALK OR, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE HIGHWAY IF NO SIDEWALKS EXIST.
- THE BOTTOM OF THE HOUSING OF A VEHICLE SIGNAL FACE, MOUNTED OVER A ROADWAY, SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001 AND 877006. (16 FT (5m) MIN., 18 FT (5.5m) MAX., FROM HIGHEST POINT OF PAVEMENT)

PEDESTRIAN SIGNAL POST

PEDESTRIAN SIGNAL HEAD AND PEDESTRIAN PUSHBUTTON DETECTOR LOCATION

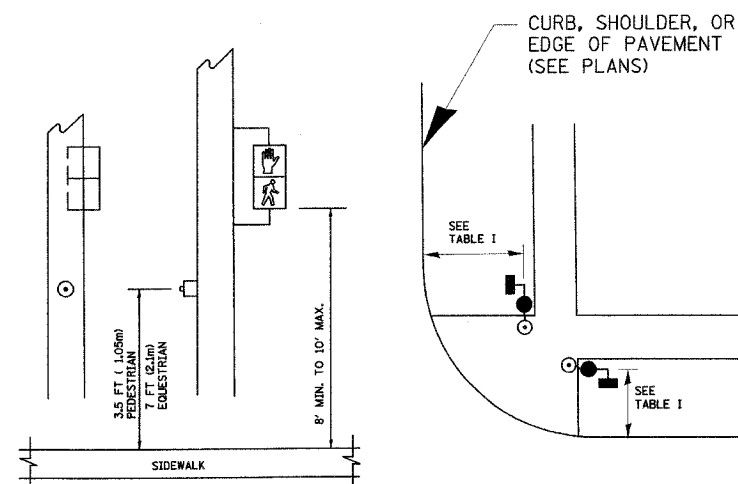


TABLE I

| TRAFFIC SIGNAL EQUIPMENT | COMBINATION CONCRETE CURB AND GUTTER (MIN. DIST. FROM BACK OF CURB) | SHOULDER/NON-CURBED AREA (MIN. DIST. FROM EDGE OF PAVEMENT) |
|------------------------------|---|---|
| TRAFFIC SIGNAL MAST ARM POLE | 6 FT (1.8m) | SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m) |
| TRAFFIC SIGNAL POST | 4 FT (1.2m) | SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m) |
| PEDESTRIAN SIGNAL POST | 4 FT (1.2m) | SHOULDER WIDTH + 2FT(0.6m), MINIMUM 10FT(3.0m) |
| PEDESTRIAN PUSHBUTTON | SEE NOTE 1 | SEE NOTE 1 |

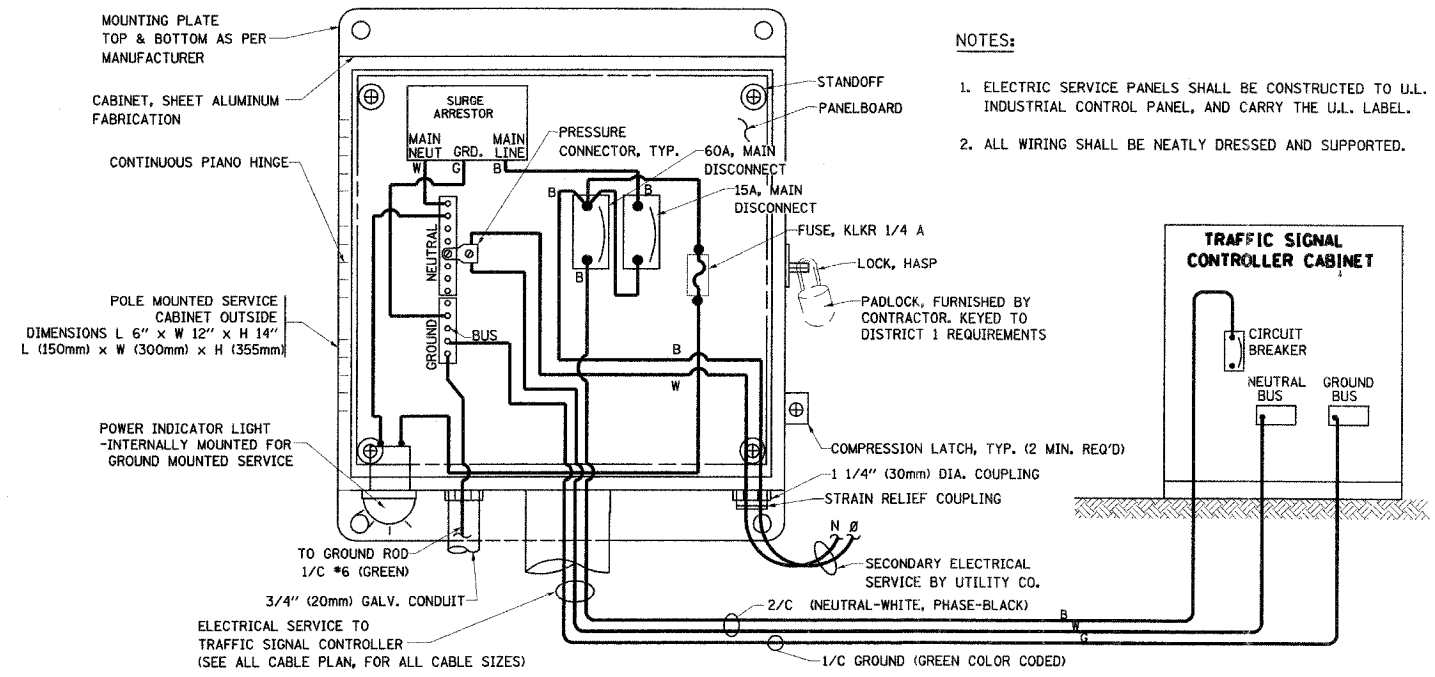
| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
 DISTRICT 1
 STANDARD TRAFFIC SIGNAL
 DESIGN DETAILS

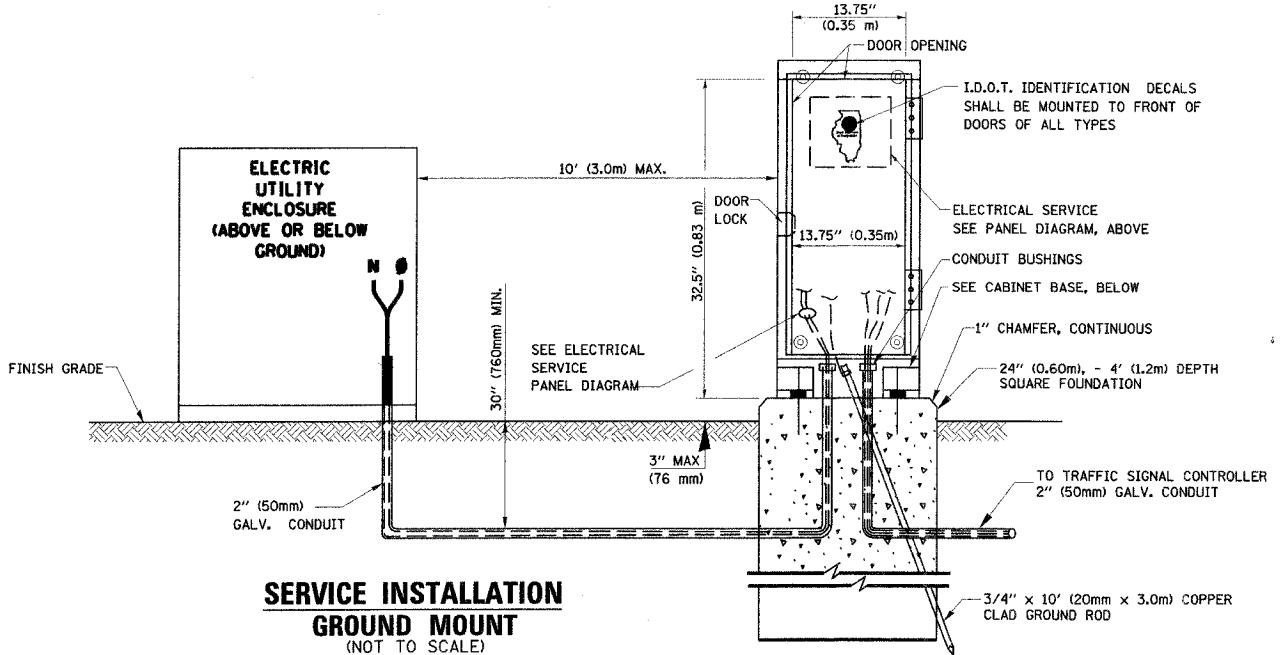
SCALE: VERT. NONE
 HORIZ. NONE
 DATE 1-01-02

DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 2 OF 4

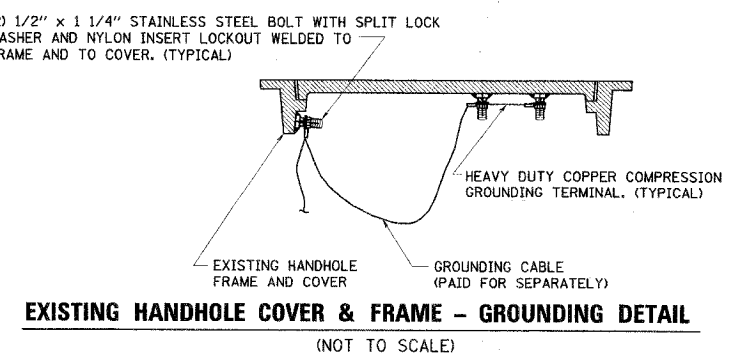
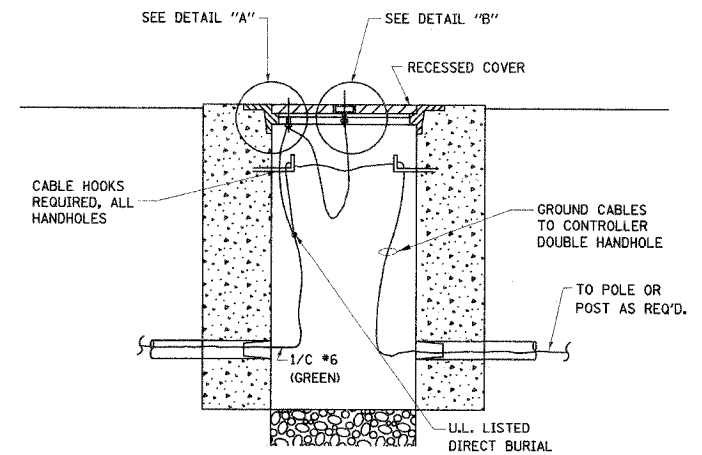
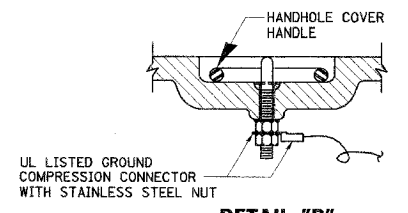
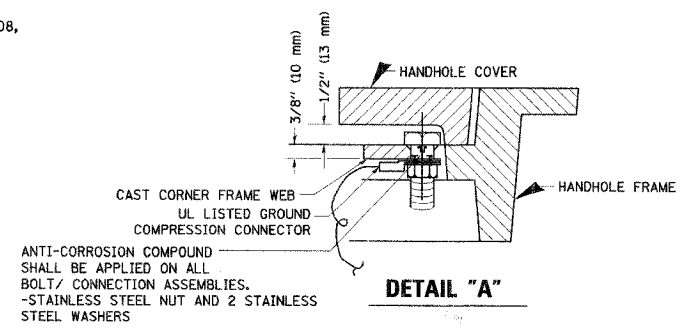
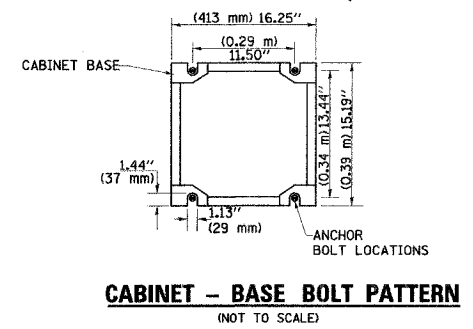
| | | | | |
|---------------------|----------------|------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 44 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |



ELECTRICAL SERVICE - PANEL DIAGRAM (TYPICAL FOR POLE AND GROUND MOUNTED SERVICE)
SERVICE INSTALLATION POLE MOUNT (SHOWN)
 (NOT TO SCALE)

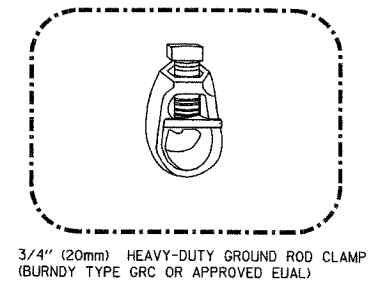
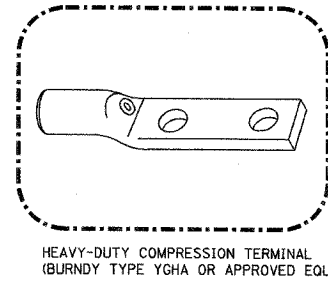


SERVICE INSTALLATION GROUND MOUNT
 (NOT TO SCALE)



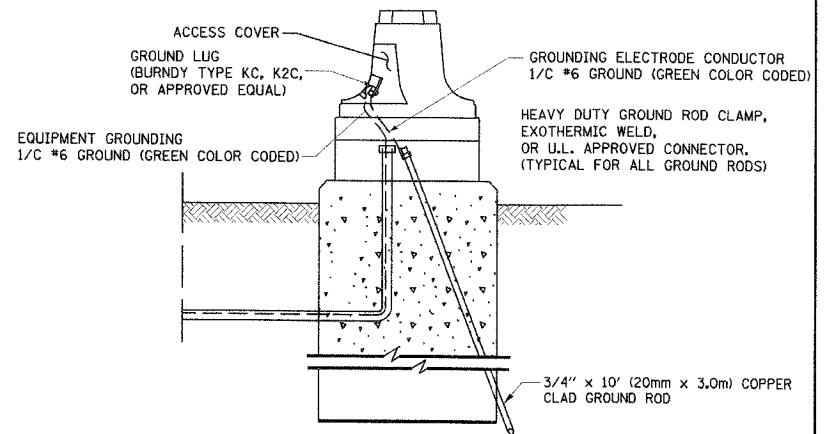
NOTES:
GROUNDING SYSTEM

- THE GROUNDING SYSTEM SHALL CONSIST OF AN INSULATED CONDUCTOR TYPE XLP, NO. 6 A.W.G., STRANDED COPPER TO BE INSTALLED IN RACEWAYS. THE GROUNDING CABLE SHALL BE INSTALLED IN A CONTINUOUS MANNER AS SHOWN ON THE CABLE PLAN PROVIDED. ALL GROUNDING CONDUCTORS SHALL BE BONDED TO METAL ENCLOSURE (HANDHOLE, POST, MAST ARM, CONTROLLER, ETC.). GROUND ROD SHALL BE 3/4" DIA. x 10'-0" (20mm x 3.0m) LONG, COPPER CLAD. ONE GROUND ROD SHALL BE INSTALLED AT ALL POST FOUNDATIONS, POLE FOUNDATIONS, CONTROLLER CABINET FOUNDATION AND ELECTRICAL SERVICE INSTALLATION AS INDICATED ON THE CABLE PLAN. IF THERE ARE ANY SPECIAL CONDITIONS SUCH AS SUB-SURFACE CONDITIONS OR INSTALLATION PROBLEMS, THE RESIDENT ENGINEER SHALL BE NOTIFIED OR CONTACT THE BUREAU OF TRAFFIC, ILLINOIS DEPARTMENT OF TRANSPORTATION DISTRICT ONE AT (847) 705-4139.
- THE NEUTRAL CONDUCTOR AND THE GROUND CONDUCTOR SHALL BE CONNECTED IN THE SERVICE INSTALLATION. AT NO OTHER POINT IN THE TRAFFIC SIGNAL SYSTEM SHALL THE NEUTRAL AND GROUND CONDUCTORS BE CONNECTED.
- ALL EQUIPMENT GROUNDING CONDUCTORS SHALL TERMINATE AT THE GROUND BUS IN THE CONTROLLER CABINET.
- THE CONTRACTOR SHALL PROVIDE A GROUND CABLE WITH CONNECTORS BETWEEN THE HANDHOLE COVER AND HANDHOLE FRAME.



NOTES:

- ALL CLAMPS SHALL BE BRONZE OR COPPER, UL APPROVED.
- GROUND CABLE SHALL BE LOOPED OVER HOOKS IN THE HANDHOLES 6.5' (2.0m) SLACK SHALL BE PROVIDED IN SINGLE HANDHOLES 13' (4.0m) OF SLACK SHALL BE PROVIDED IN DOUBLE HANDHOLES. 5' (1.4m) OF SLACK SHALL BE PROVIDED BETWEEN FRAME AND COVER.



REVISIONS

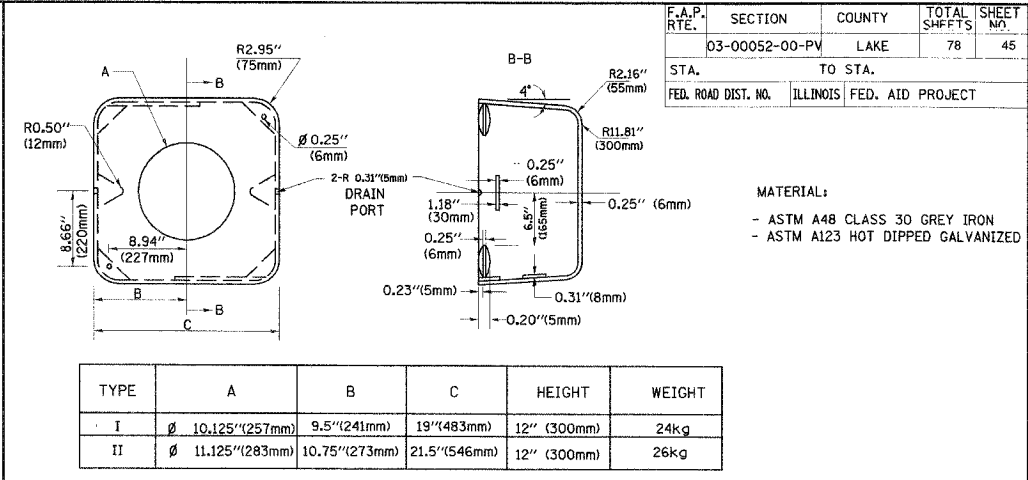
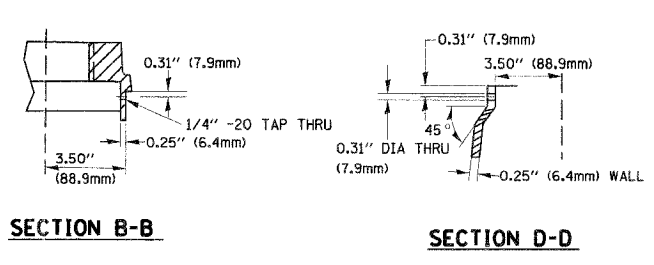
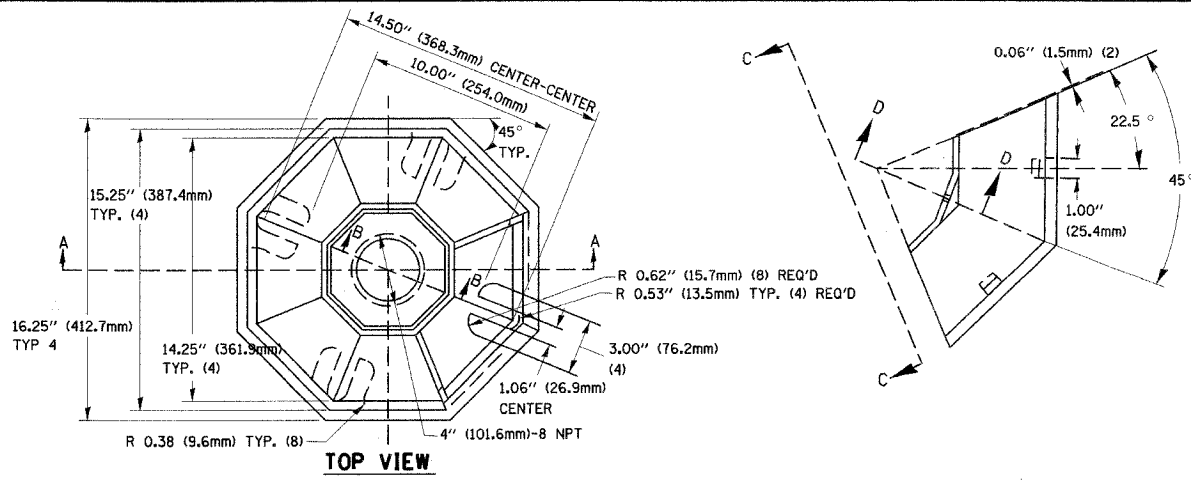
| NAME | DATE |
|------|------|
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |
| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
STANDARD TRAFFIC SIGNAL
DESIGN DETAILS

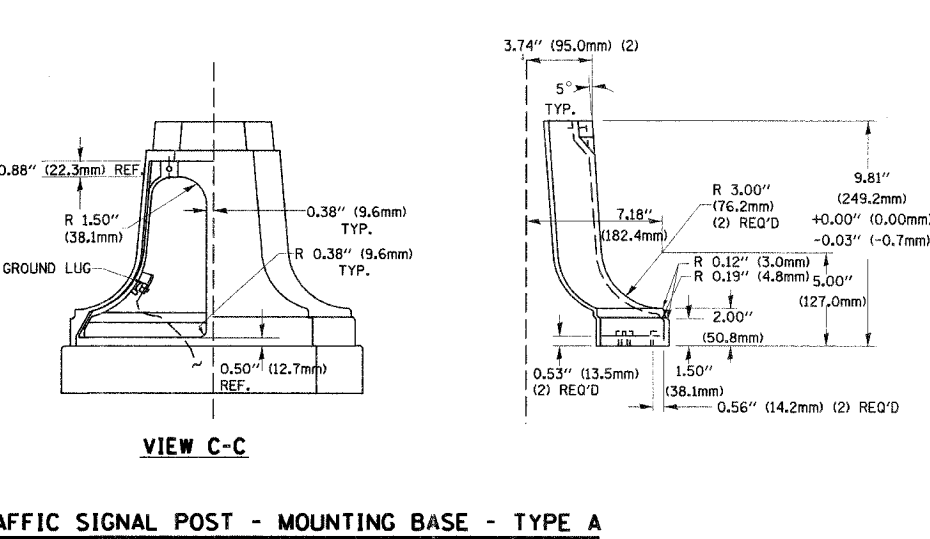
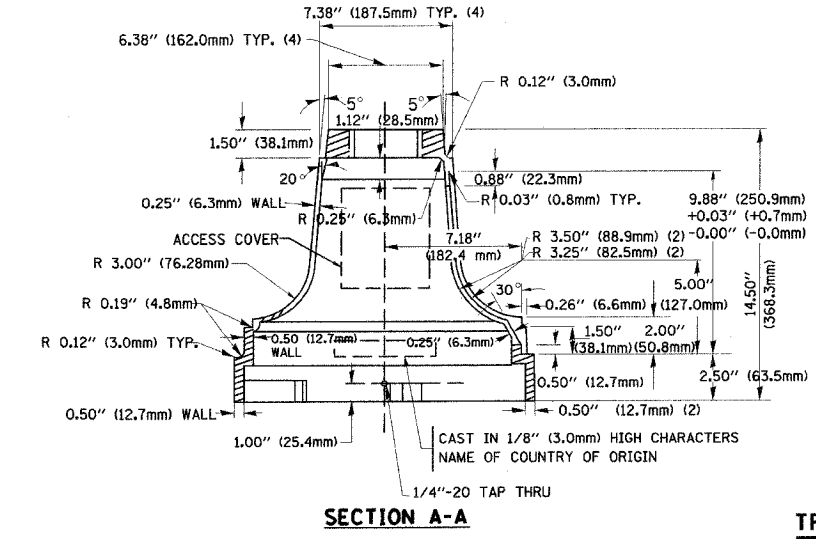
SCALE: VERT. NONE
 HORIZ. 1"=10'
 DATE 1-01-02

DRAWN BY: RWP
 DESIGNED BY: DAD
 CHECKED BY: DAZ
 SHEET 3 OF 4

| | | | | |
|---------------------|---------------------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | D3-00052-00-PV | LAKE | 78 | 45 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT | | | |

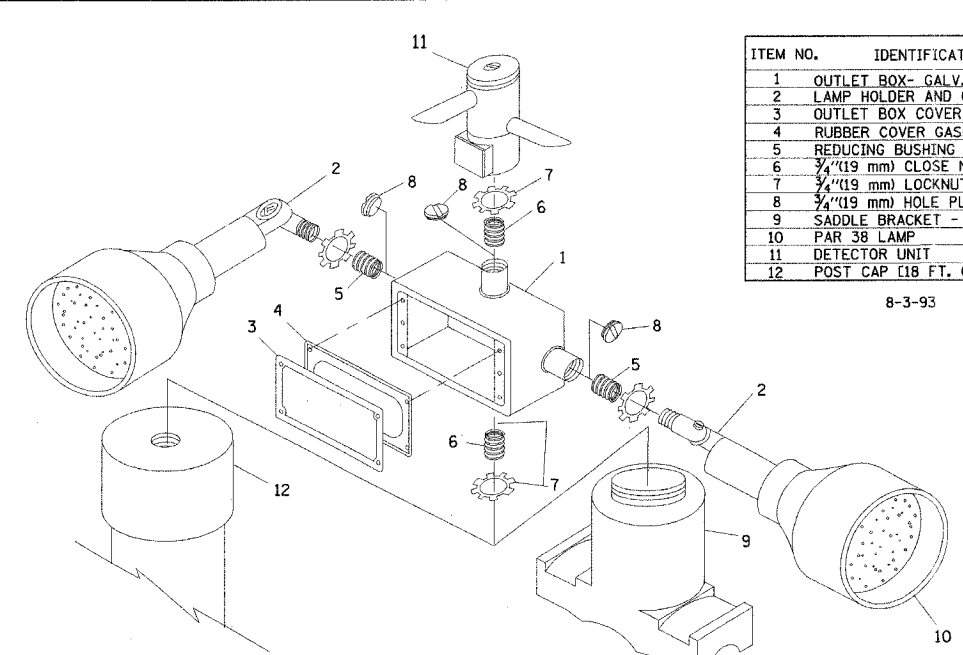
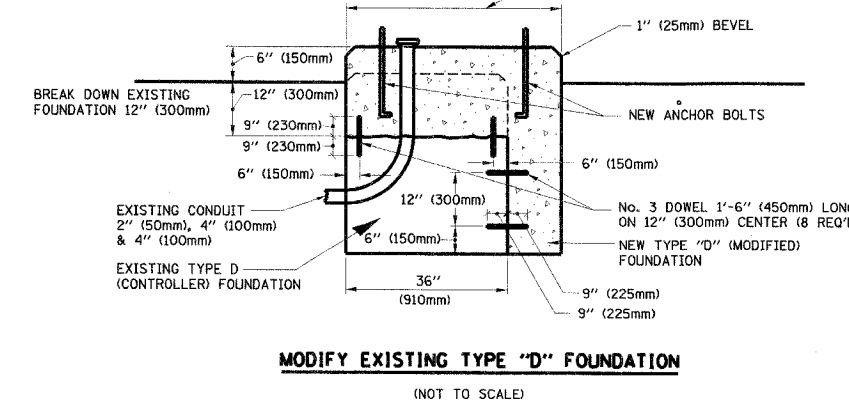


| TYPE | A | B | C | HEIGHT | WEIGHT |
|------|-------------------|----------------|---------------|-------------|--------|
| I | ∅ 10.125\"(257mm) | 9.5\"(241mm) | 19\"(483mm) | 12\"(300mm) | 24kg |
| II | ∅ 11.125\"(283mm) | 10.75\"(273mm) | 21.5\"(546mm) | 12\"(300mm) | 26kg |



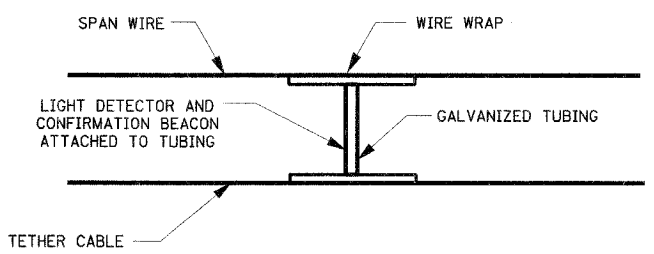
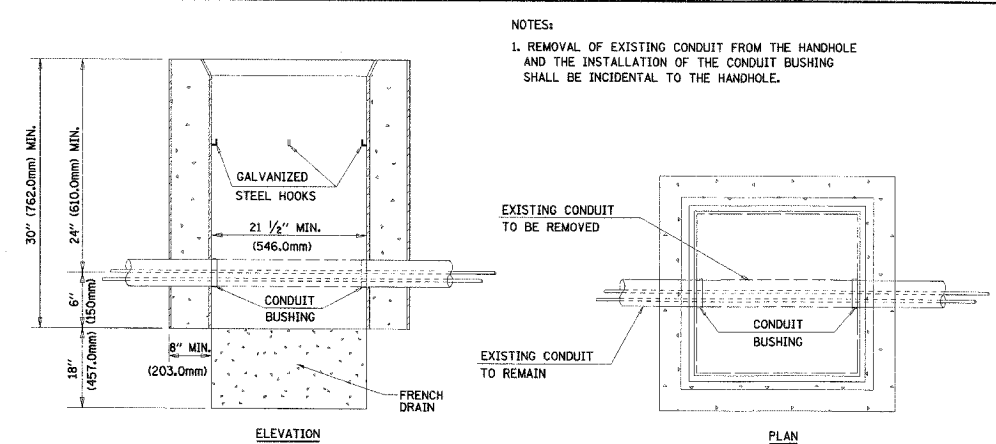
TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

NOTE:
SUPPORT EXISTING CABINET AND CONTROL EQUIPMENT ABOVE FOUNDATION TO KEEP TRAFFIC SIGNAL FUNCTIONING WHILE FOUNDATION MODIFICATION WORK IS PROCEEDING.



| ITEM NO. | IDENTIFICATION |
|----------|---|
| 1 | OUTLET BOX- GALV. 21 CU.IN. (0,000344 CU-M) |
| 2 | LAMP HOLDER AND COVER |
| 3 | OUTLET BOX COVER |
| 4 | RUBBER COVER GASKET |
| 5 | REDUCING BUSHING |
| 6 | 3/4\"(19 mm) CLOSE NIPPLE |
| 7 | 3/4\"(19 mm) LOCKNUT |
| 8 | 3/4\"(19 mm) HOLE PLUG |
| 9 | SADDLE BRACKET - GALV. |
| 10 | PAR 38 LAMP |
| 11 | DETECTOR UNIT |
| 12 | POST CAP [18 FT. (5.4 m) POST MIN.] |

- NOTES:
- ALL ELECTRICAL ITEMS, EXCEPT ITEMS #2 AND #11 SHALL BE ALUMINUM OR GALVANIZED
 - ITEM #1- OZ/GEDNEY FSX-1-50 OR EQUIVALENT
ITEM #2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
ITEM #9- 'BAND-IT' SADDLE BRACKET OR EQUIVALENT
 - WHEN POST MOUNTING IS SPECIFIED, ITEM #9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 3/4\"(19 mm) HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.



POST CAP MOUNT
MAST ARM MOUNT
EMERGENCY VEHICLE DETECTOR WITH CONFIRMATION BEACON MOUNTING DETAIL

LIGHT DETECTOR AND CONFIRMATION BEACON MOUNTING FOR TEMPORARY TRAFFIC SIGNALS
(NOT TO SCALE)

DETAIL HANDHOLE TO INTERCEPT EXISTING CONDUIT
N.T.S.

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT 1
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

SCALE: VERT. NONE
HORIZ. NONE
DATE: 1-01-02

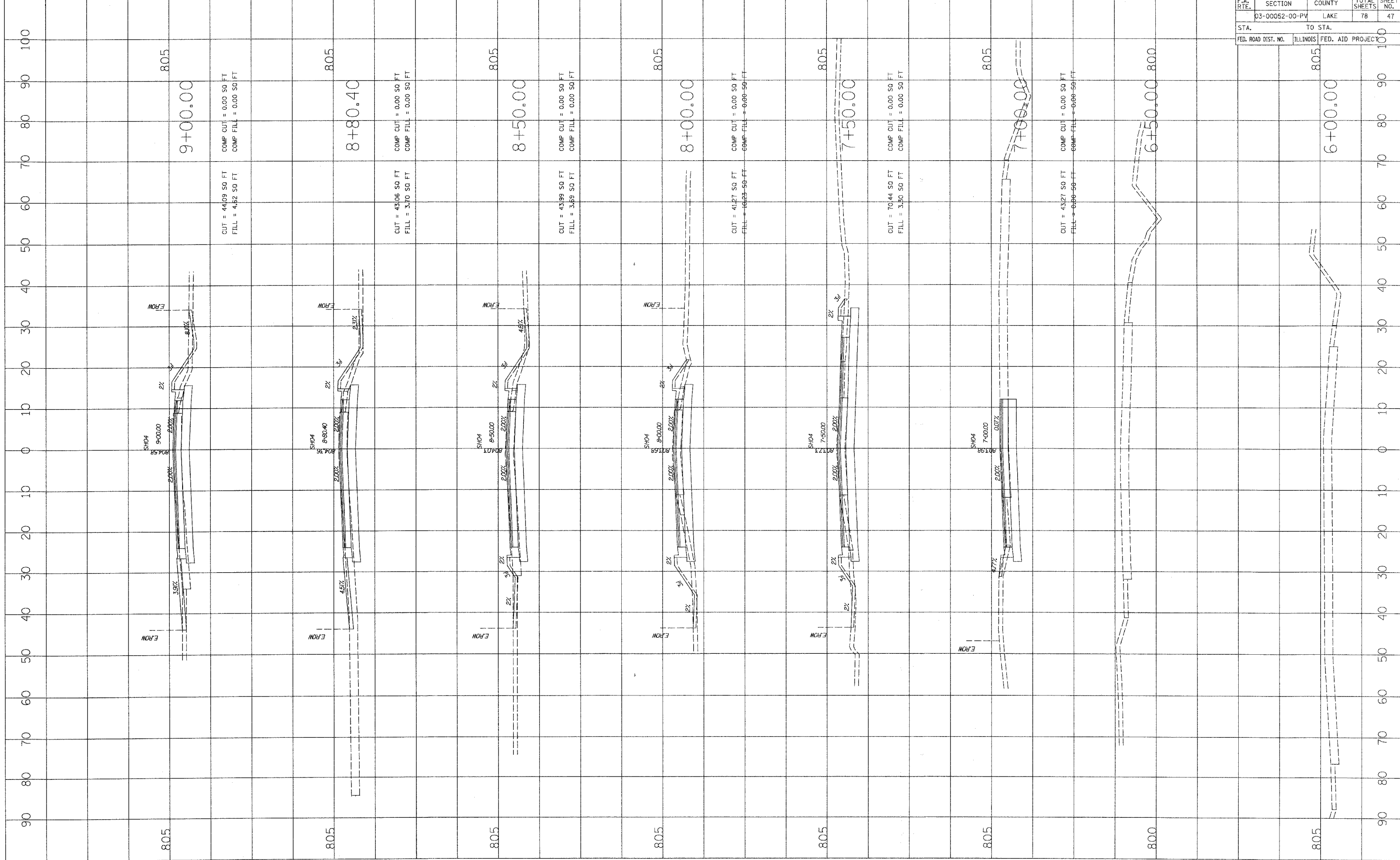
DRAWN BY: RWP
DESIGNED BY: DAD
CHECKED BY: DAZ
SHEET 4 OF 4

PLOT DATE = 5/16/2008
 FILE NAME = p:\a\comp\3202050467\...
 USER NAME = MACTEC

ORIGINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

FINAL SURVEY PLOTTED TEMPLATE AREAS CHECKED

BY DATE



9+00.00
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

8+80.40
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

8+50.00
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

8+00.00
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

8+00.00
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

8+00.00
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

8+00.00
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

8+00.00
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

8+00.00
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

8+00.00
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

800
 6+50.00 800

805
 6+00.00

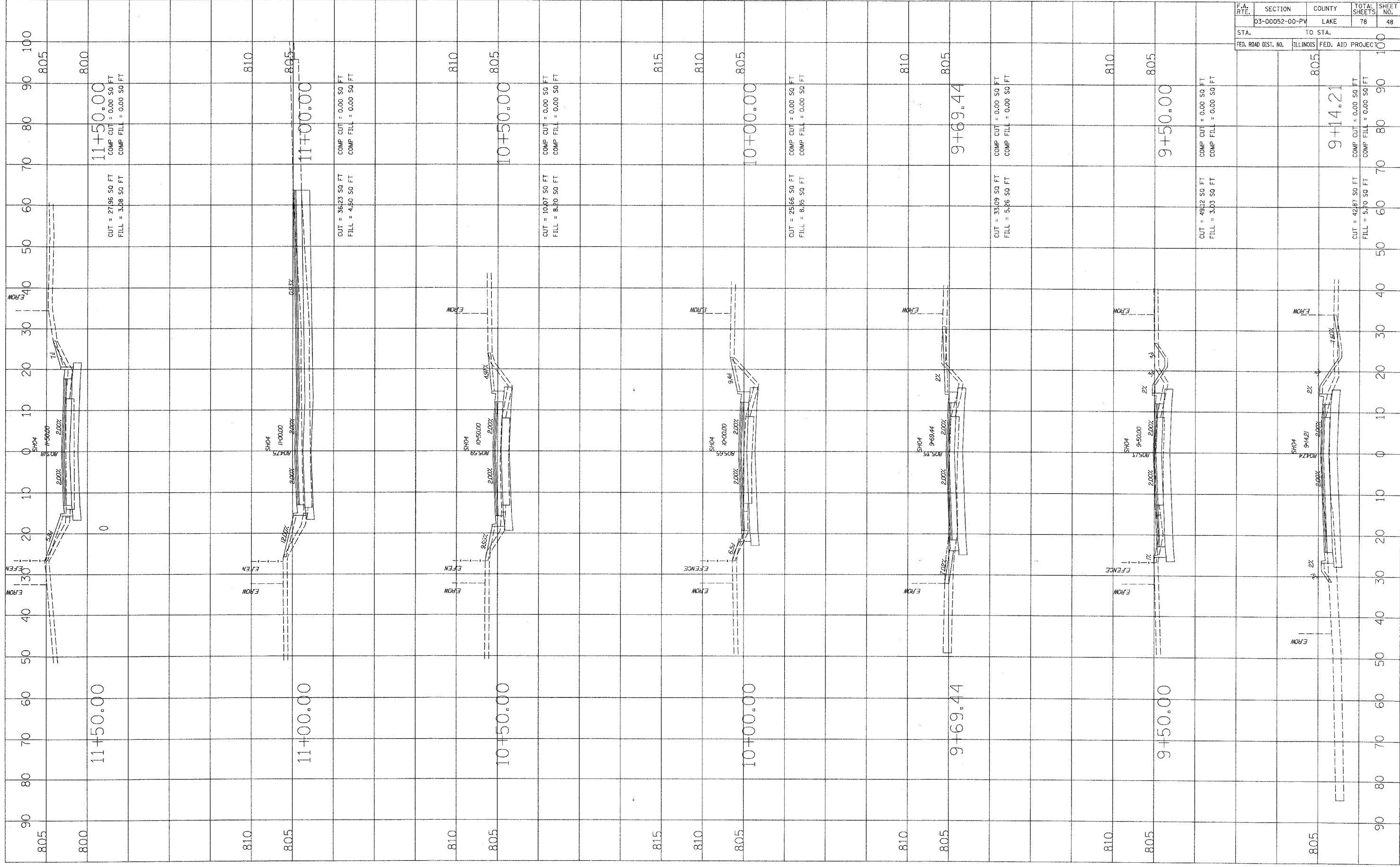
| | | | | |
|---------------------|----------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 47 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | 100 | |

PLOT DATE = 5/16/2008
 FILE NAME = p:\work\p13202200467\civil\sh...
 USER NAME = MAC/TEC

ORIGINAL SURVEY
 SURVEYED PLOTTED
 NOTE BOOK TEMPLATE
 NO. AREAS CHECKED

FINAL SURVEY
 SURVEYED PLOTTED
 NOTE BOOK TEMPLATE
 NO. AREAS CHECKED

DATE BY



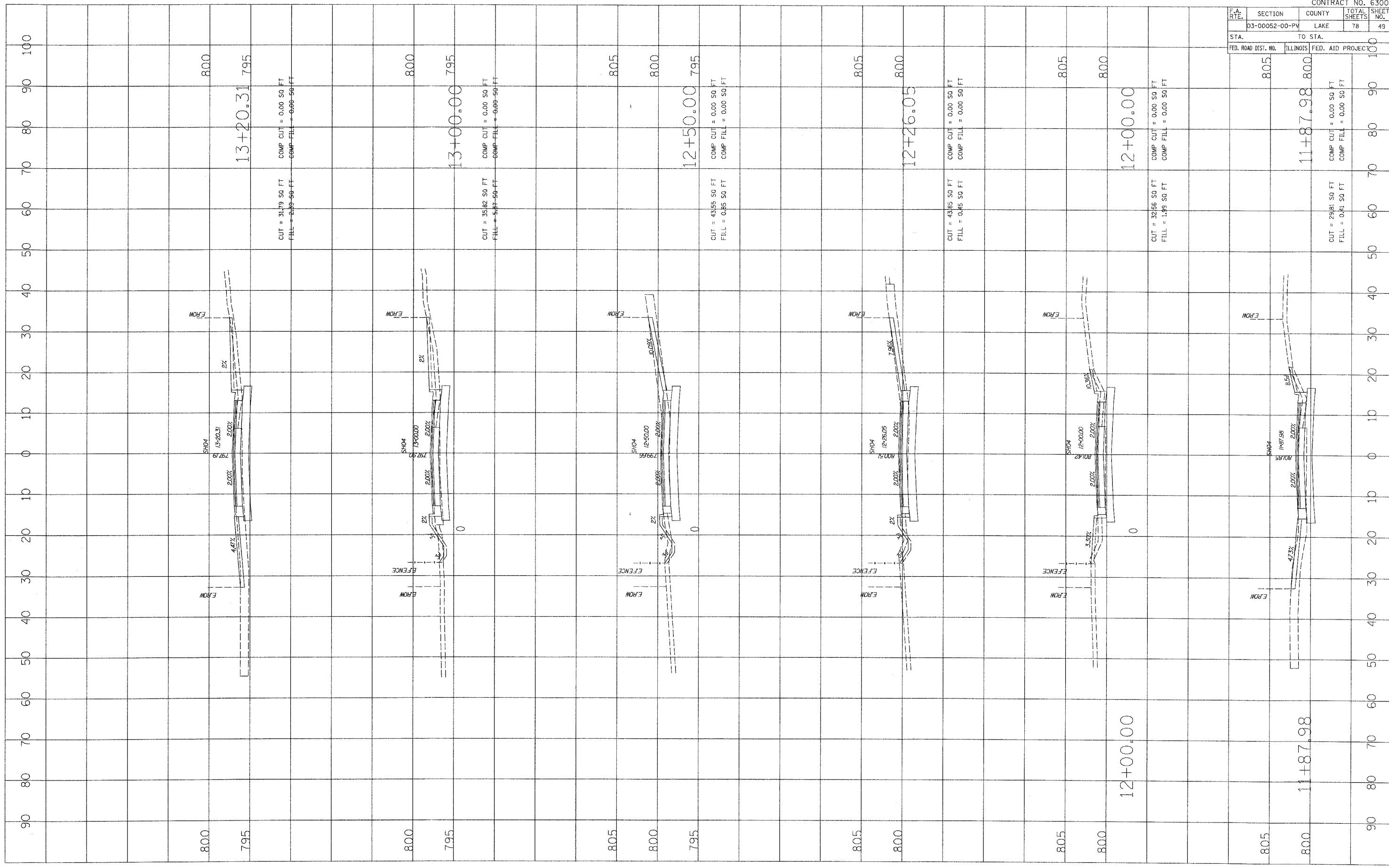
| | |
|---------------------|---------------------------|
| CONTRACT NO. 63002 | |
| F.A. RTE. | SECTION |
| 03-00052-00-PV | LAKE |
| STA. | TO STA. |
| 805 | 910 |
| FED. ROAD DIST. NO. | ILLINOIS FED. AID PROJECT |
| | |
| TOTAL SHEETS | SHEET NO. |
| 78 | 48 |

PLOT DATE = 5/16/2008
 FILE NAME = p:\p\entm\320200067\entm\320200067.dwg
 USER NAME = HACTEC

ORIGINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK NO.
 AREAS CHECKED

FINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK NO.
 AREAS CHECKED

DATE BY



CUT = 3179 SQ FT
 FILL = 239 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 3582 SQ FT
 FILL = 537 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 4355 SQ FT
 FILL = 0.85 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 4385 SQ FT
 FILL = 0.45 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 3256 SQ FT
 FILL = 1.99 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 2981 SQ FT
 FILL = 0.41 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|--------|--------------|-----------|
| | 03-00052-00-PV | LAKE | 78 | 49 |

| STA. | TO STA. |
|------|---------|
| 805 | 800 |

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

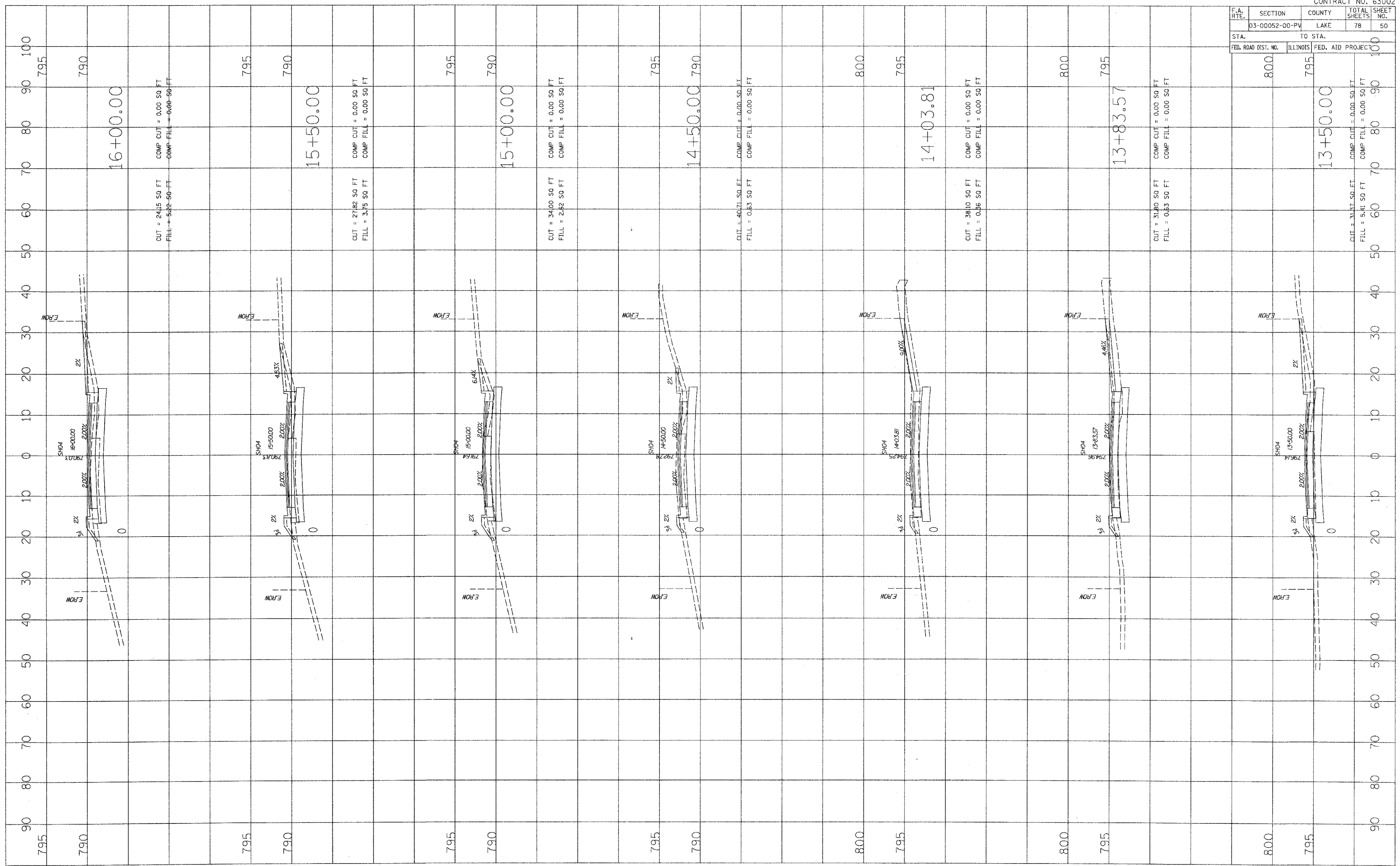
CONTRACT NO. 63002

PLOT DATE = 5/16/2008
 FILE NAME = p:\work\p13202954-107\civil\as\CH\13202954-107.dwg
 USER NAME = M3C/TEC

ORIGINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK NO. AREAS CHECKED

FINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK NO. AREAS CHECKED

BY DATE



CUT = 24.15 SQ FT
 FILL = 5.22 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 27.82 SQ FT
 FILL = 3.75 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 34.00 SQ FT
 FILL = 2.82 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 40.71 SQ FT
 FILL = 0.83 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 38.10 SQ FT
 FILL = 0.56 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 31.80 SQ FT
 FILL = 0.83 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 31.17 SQ FT
 FILL = 5.41 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

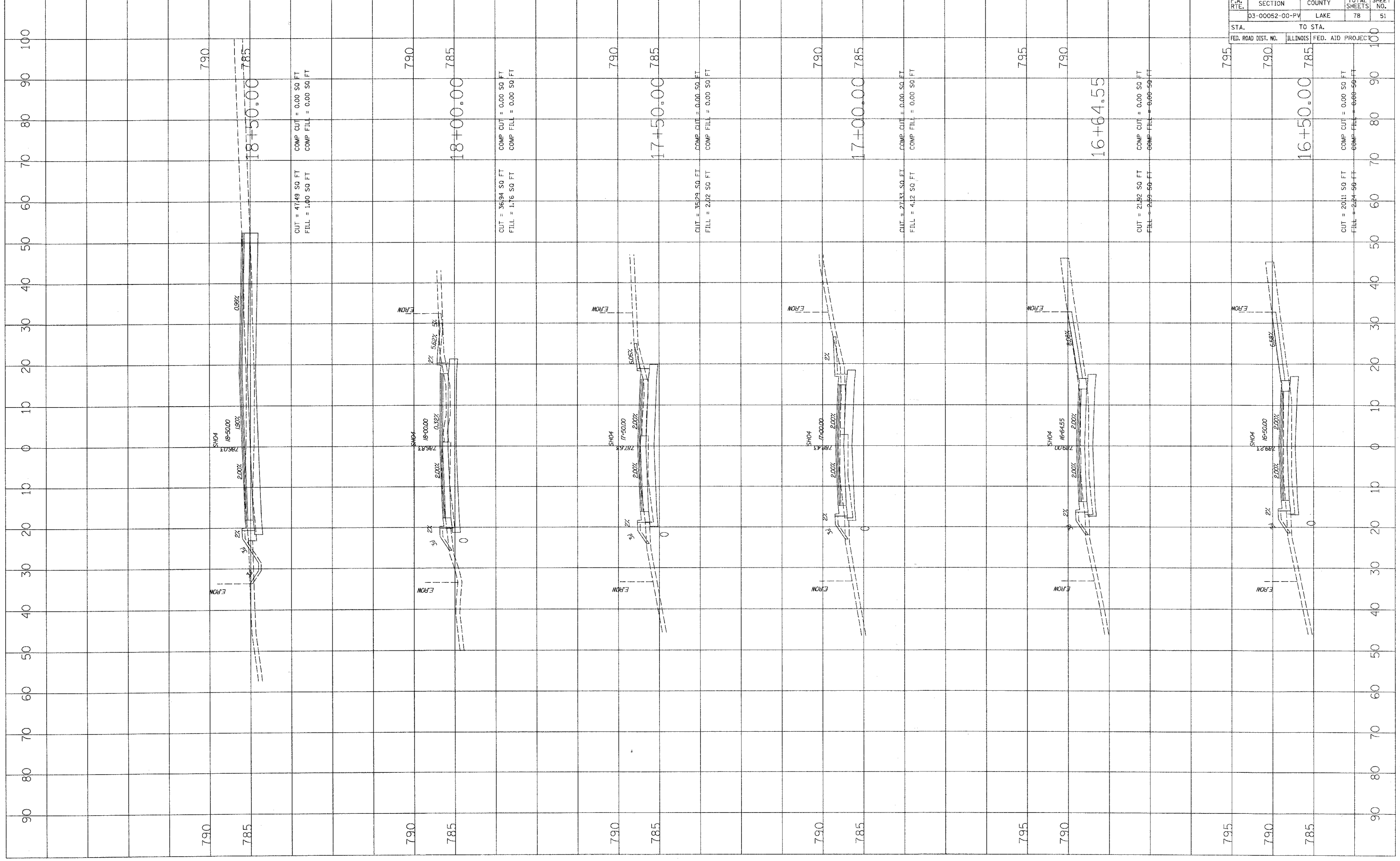
| | | | | |
|---------------------|----------------|------------------|--------------|-----------|
| F.A. RTCL | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 50 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

PLOT DATE = 5/16/2008
 FILE NAME = p:\atwork\3292809467\sho4\sho4.dwg
 PLOT SCALE = NTS
 USER NAME = HACTEC

ORIGINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NO. AREAS CHECKED

FINAL SURVEY PLOTTED
 NOTE BOOK NO. AREAS CHECKED

BY DATE



CUT = 4149 SQ FT
 FILL = 1.00 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 3694 SQ FT
 FILL = 1.76 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 3529 SQ FT
 FILL = 2.02 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 2733 SQ FT
 FILL = 4.12 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 2192 SQ FT
 FILL = 2.59 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 2011 SQ FT
 FILL = 2.24 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

| | | | | |
|---------------------|----------------|------------------|--------------|-----------|
| F.A. R.T.E. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | D3-00052-00-PV | LAKE | 78 | 51 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

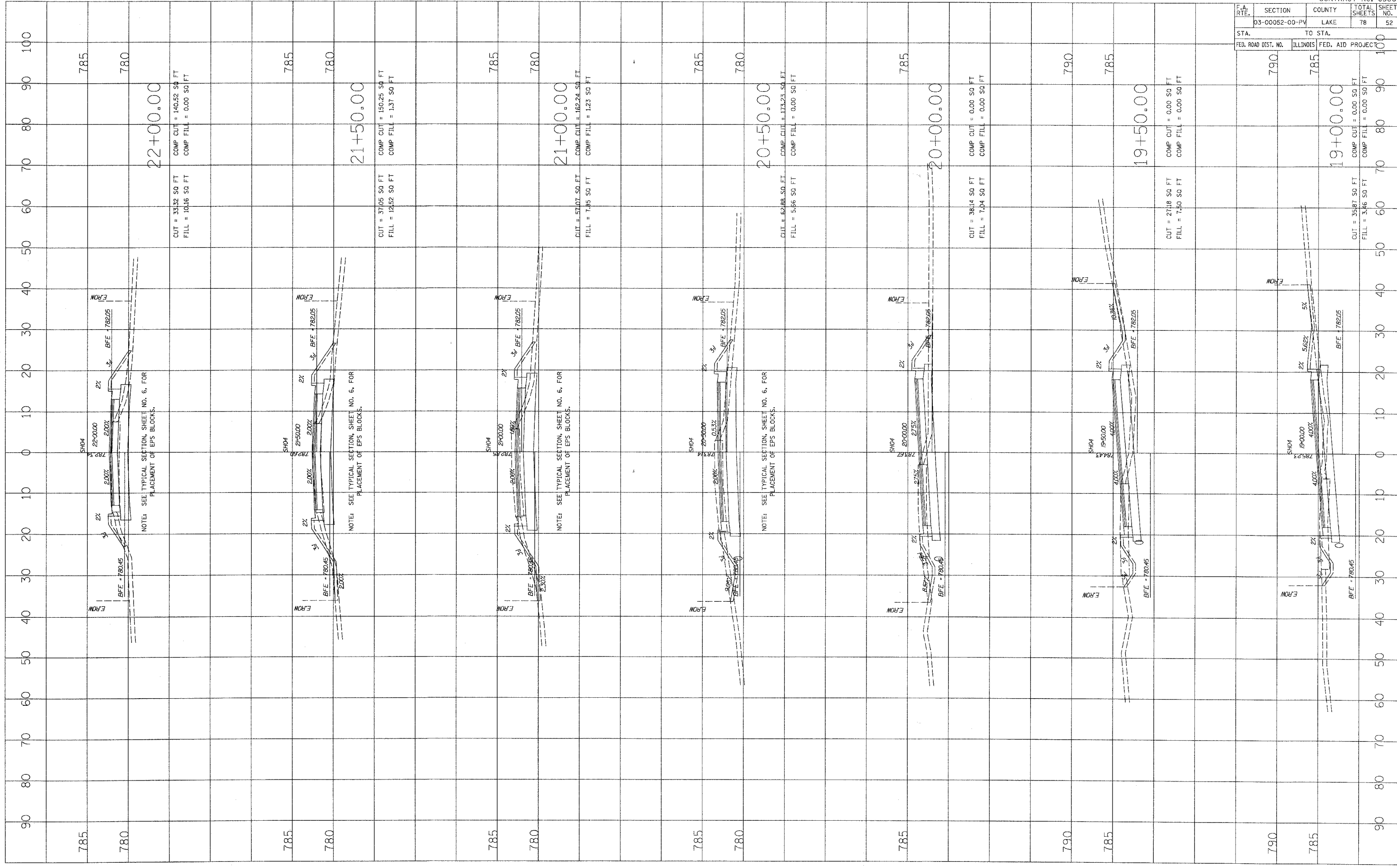
CONTRACT NO. 63002

PLOT DATE = 5/16/2008
 FILE NAME = p:\v\prip\3202\200667\civil\shp\8782\8782.dwg
 USER NAME = MCTEC

ORIGINAL SURVEY PLOTTED
 NO. AREAS CHECKED

FINAL SURVEY PLOTTED
 NO. AREAS CHECKED

DATE BY

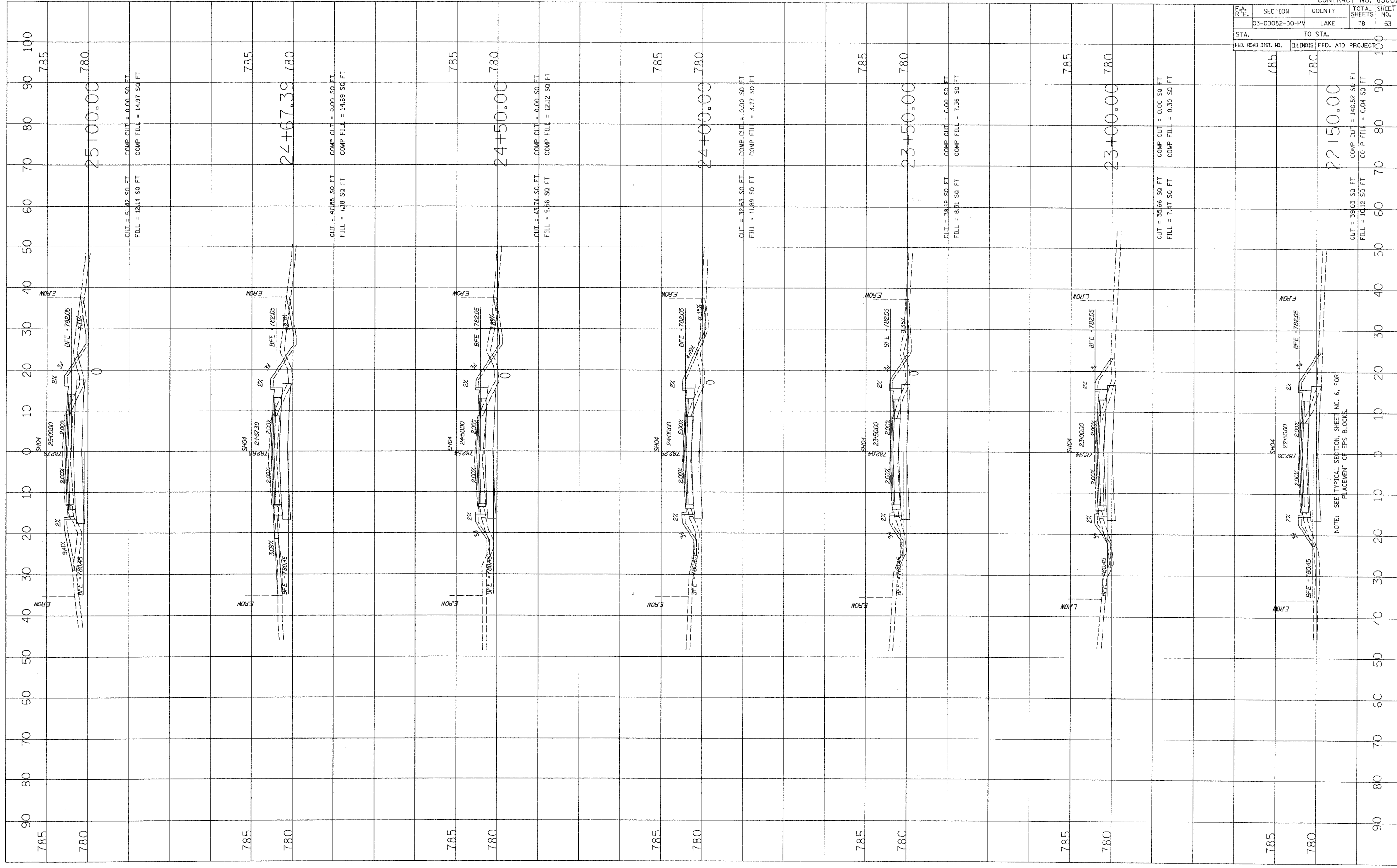


| | |
|---------------------|--------------|
| CONTRACT NO. 63002 | |
| F.A. RTE. | SECTION |
| 03-00052-00-PV | LAKE |
| COUNTY | TOTAL SHEETS |
| 78 | 52 |
| STA. | TO STA. |
| FED. ROAD DIST. NO. | ILLINOIS |
| FED. AID PROJECT | 100 |

PLOT DATE = 5/16/2008
 FILE NAME = P:\VFPMP\328200\2467.dwg
 PLOT SCALE = NTS
 USER NAME = HCTEC

ORIGINAL SURVEY
 SURVEYED BY: _____ DATE: _____
 SURVEYED BY: _____ DATE: _____
 TEMPLATE: _____
 AREAS CHECKED: _____
 NO. _____

FINAL SURVEY
 SURVEYED BY: _____ DATE: _____
 SURVEYED BY: _____ DATE: _____
 TEMPLATE: _____
 AREAS CHECKED: _____
 NO. _____



CUT = 51.42 SQ. FT.
 FILL = 12.14 SQ. FT.
 COMP. CUT = 0.00 SQ. FT.
 COMP. FILL = 14.97 SQ. FT.

CUT = 47.88 SQ. FT.
 FILL = 7.18 SQ. FT.
 COMP. CUT = 0.00 SQ. FT.
 COMP. FILL = 14.69 SQ. FT.

CUT = 43.74 SQ. FT.
 FILL = 9.68 SQ. FT.
 COMP. CUT = 0.00 SQ. FT.
 COMP. FILL = 12.12 SQ. FT.

CUT = 32.63 SQ. FT.
 FILL = 11.89 SQ. FT.
 COMP. CUT = 0.00 SQ. FT.
 COMP. FILL = 3.77 SQ. FT.

CUT = 38.19 SQ. FT.
 FILL = 8.81 SQ. FT.
 COMP. CUT = 0.00 SQ. FT.
 COMP. FILL = 7.36 SQ. FT.

CUT = 35.66 SQ. FT.
 FILL = 7.47 SQ. FT.
 COMP. CUT = 0.00 SQ. FT.
 COMP. FILL = 0.30 SQ. FT.

CUT = 39.03 SQ. FT.
 FILL = 10.12 SQ. FT.
 COMP. CUT = 140.52 SQ. FT.
 COMP. FILL = 0.04 SQ. FT.

NOTE: SEE TYPICAL SECTION, SHEET NO. 6, FOR
 PLACEMENT OF EPS BLOCKS.

| | | | | |
|---------------------|----------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 53 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

CONTRACT NO. 63002

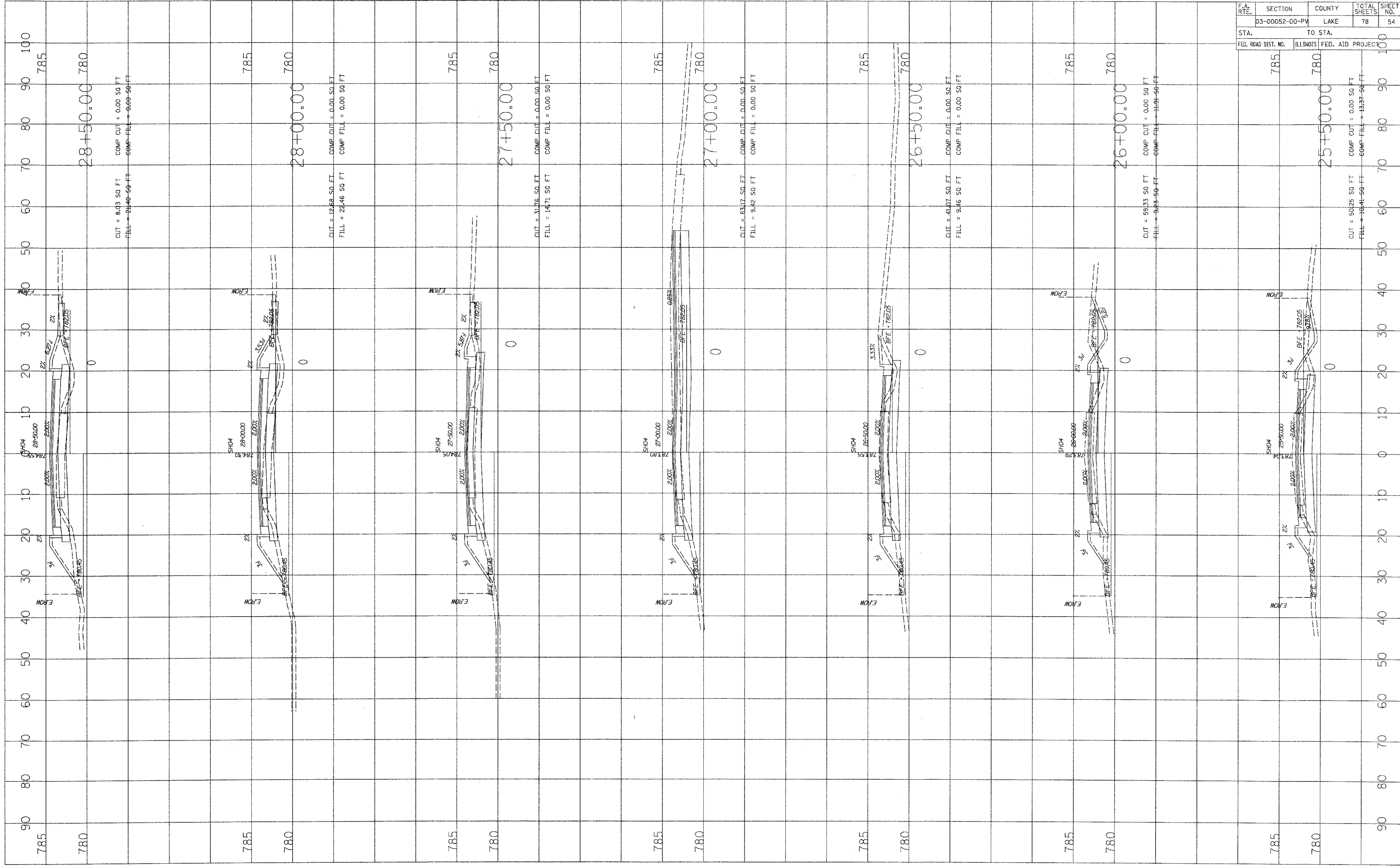
PLOT DATE = 5/16/2008
 FILE NAME = p:\temp\3202505467.dwg
 USER NAME = MACTEC

ORIGINAL SURVEY PLOTTED
 NO. AREAS CHECKED

FINAL SURVEY PLOTTED
 NO. AREAS CHECKED

BY: _____ DATE: _____

BY: _____ DATE: _____

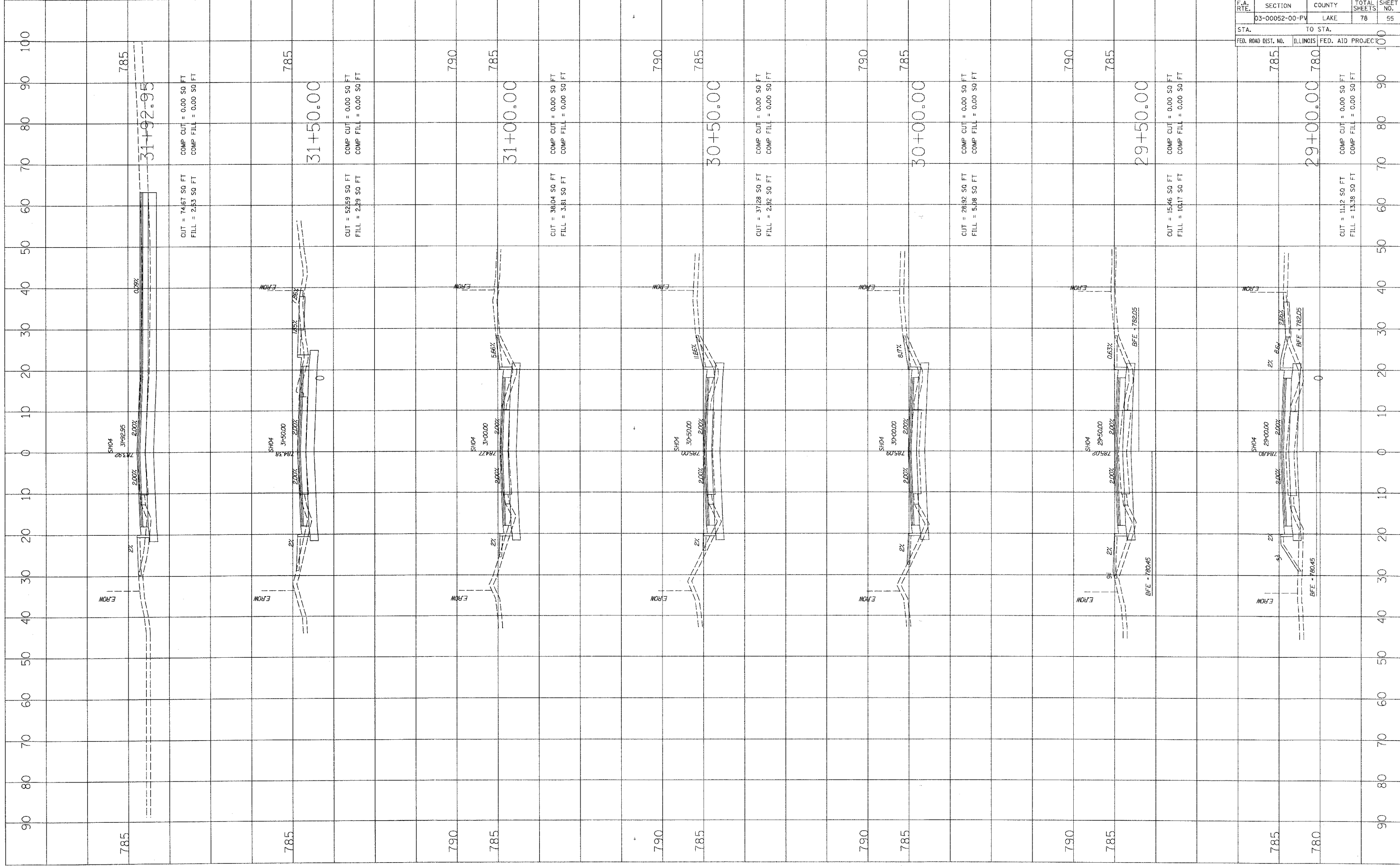


| | | | | |
|---------------------|----------------|------------------|--------------|-----------|
| CONTRACT NO. 63002 | | | | |
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 54 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

PLOT DATE = 5/16/2008
 FILE NAME = P:\PROJECTS\20080404\785\A\SHIFTS\785.PLT
 USER NAME = MACTEC

ORIGINAL SURVEY PLOTTED
 NOTE BOOK NO. _____
 BY _____ DATE _____
 AREAS CHECKED

FINAL SURVEY PLOTTED
 NOTE BOOK NO. _____
 BY _____ DATE _____
 AREAS CHECKED



CUT = 74.67 SQ FT
 FILL = 2.53 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 52.89 SQ FT
 FILL = 2.29 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 38.04 SQ FT
 FILL = 3.81 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 37.28 SQ FT
 FILL = 2.82 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 28.92 SQ FT
 FILL = 5.18 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 15.46 SQ FT
 FILL = 10.17 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 11.12 SQ FT
 FILL = 13.38 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

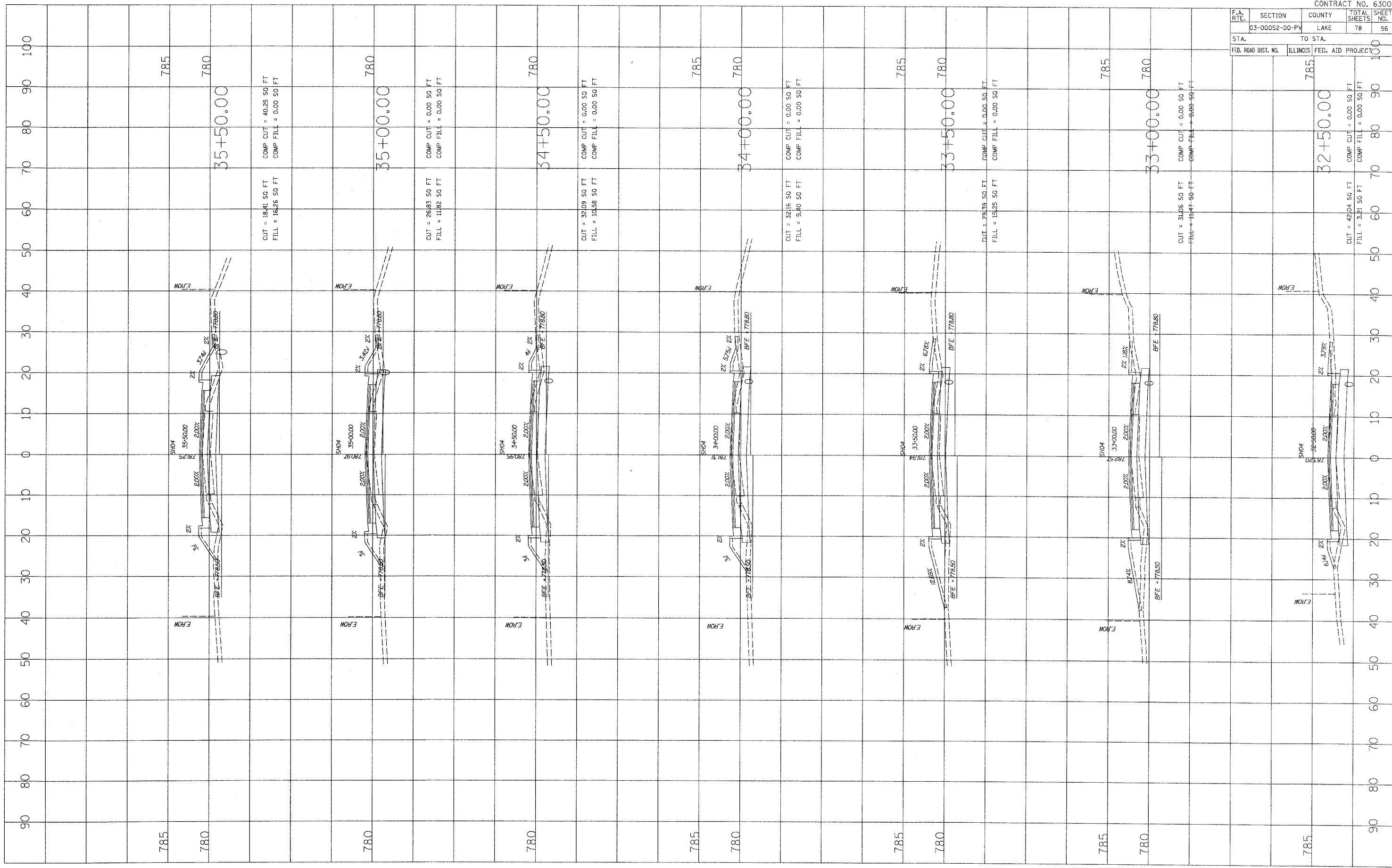
| | | | | | |
|---------------------|--|----------------|------------------|--------------|-----------|
| F.A. RTE. | | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | D3-00052-00-PV | LAKE | 78 | 55 |
| STA. | | TO STA. | | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | | |

PLOT DATE = 5/15/2008
 FILE NAME = p:\temp\3282080467.dwg
 USER NAME = MACTEC

ORIGINAL SURVEY PLOTTED
 NO. AREAS CHECKED

FINAL SURVEY PLOTTED
 NO. AREAS CHECKED

BY _____ DATE _____



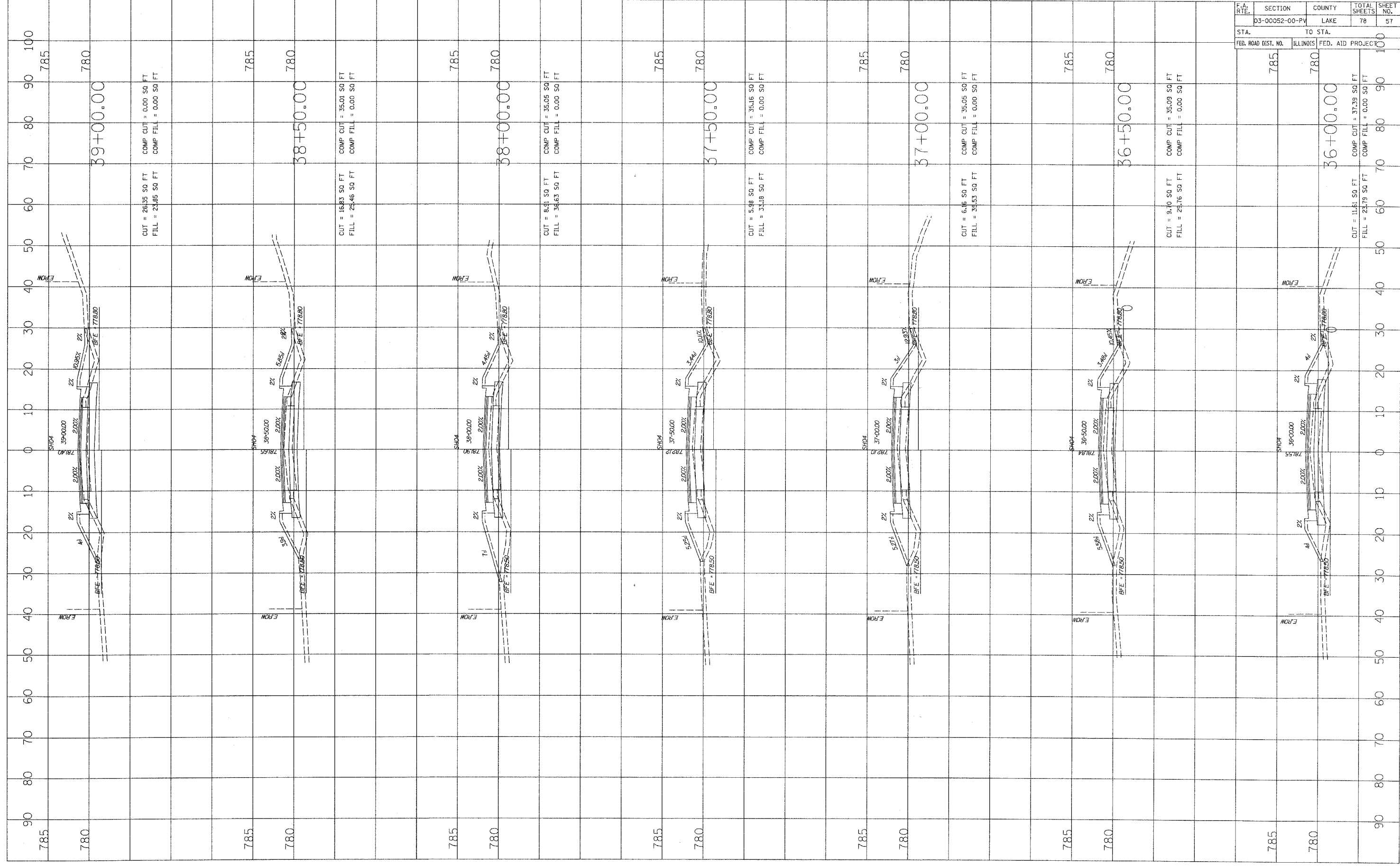
| | | | | |
|---------------------|----------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 56 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

CONTRACT NO. 63002

PLOT DATE = 5/16/2008
 FILE NAME = p:\temp\3282898467.dwg
 PLOT SCALE = NTS
 USER NAME = PACTEC

ORIGINAL SURVEY
 SURVEYED BY
 DATE
 NO.

FINAL SURVEY
 SURVEYED BY
 DATE
 NO.



CUT = 26.35 SQ FT
 FILL = 23.85 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 16.83 SQ FT
 FILL = 25.46 SQ FT
 COMP CUT = 35.01 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 8.51 SQ FT
 FILL = 36.63 SQ FT
 COMP CUT = 35.05 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 5.98 SQ FT
 FILL = 33.18 SQ FT
 COMP CUT = 35.16 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 6.16 SQ FT
 FILL = 35.53 SQ FT
 COMP CUT = 35.05 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 9.10 SQ FT
 FILL = 25.76 SQ FT
 COMP CUT = 35.09 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 11.81 SQ FT
 FILL = 23.79 SQ FT
 COMP CUT = 37.39 SQ FT
 COMP FILL = 0.00 SQ FT

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|--------|--------------|-----------|
| | D3-00052-00-PV | LAKE | 78 | 57 |

| STA. | TO STA. |
|------|---------|
| 785 | 780 |

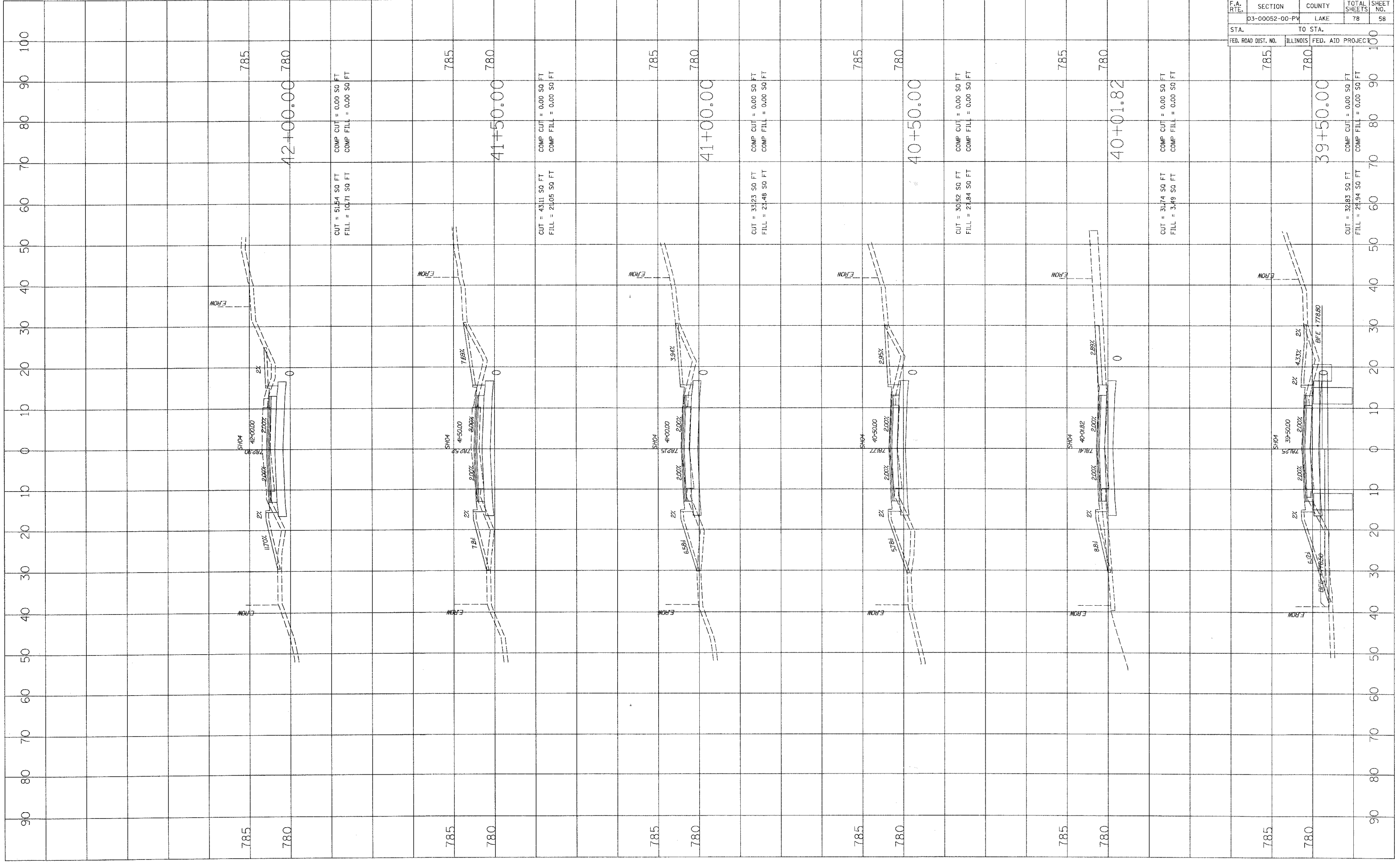
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |
|---------------------|----------|------------------|
| | | |

PLOT DATE = 9/16/2008
 FILE NAME = P:\c\mhp\1202200467\gva\va\shp\40+00\40+00.dwg
 USER NAME = MHEC

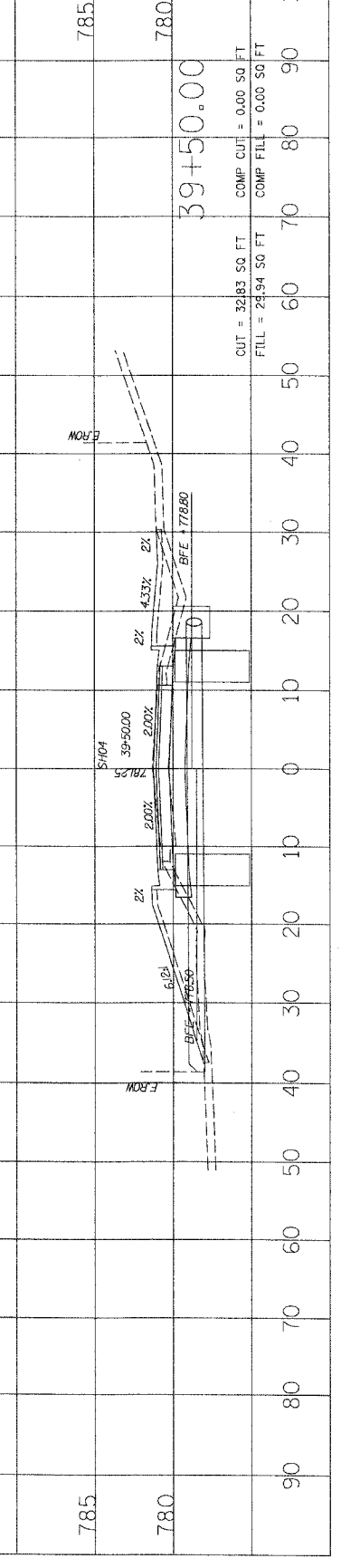
ORIGINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK NO. AREAS CHECKED

FINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK NO. AREAS CHECKED

BY _____ DATE _____



| | | | | |
|---------------------|----------------|------------------|--------------|-----------|
| CONTRACT NO. 63002 | | | | |
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | D3-00052-00-PV | LAKE | 78 | 58 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | 100 | |

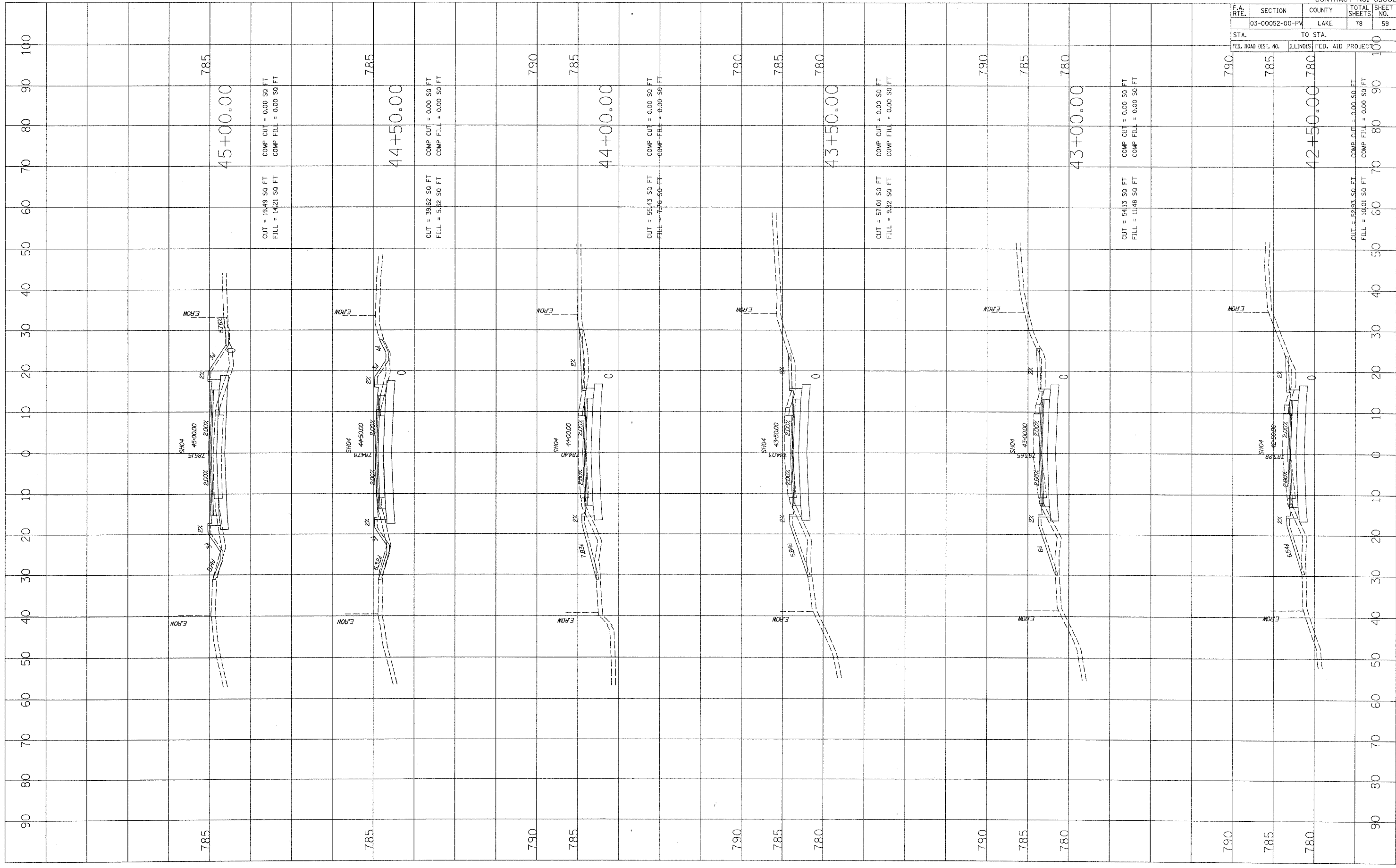


PLOT DATE = 5/16/2008
 FILE NAME = p:\pwork\302280467\mva\shf\mva1808\p1808.dwg
 USER NAME = MACTEC

ORIGINAL SURVEY PLOTTED
 SURVEY PLOTTED
 TEMPLATE
 AREAS CHECKED

FINAL SURVEY PLOTTED
 NOTE BOOK
 AREAS CHECKED

BY: _____ DATE: _____



| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------|---------|--------|--------------|-----------|
| 03-00052-00-PV | LAKE | 78 | 59 | |

| STA. | TO STA. |
|------|---------|
| 785 | 780 |

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

CUT = 5293 SQ. FT.
 FILL = 1001 SQ. FT.

COMP. CUT = 0.00 SQ. FT.
 COMP. FILL = 0.00 SQ. FT.

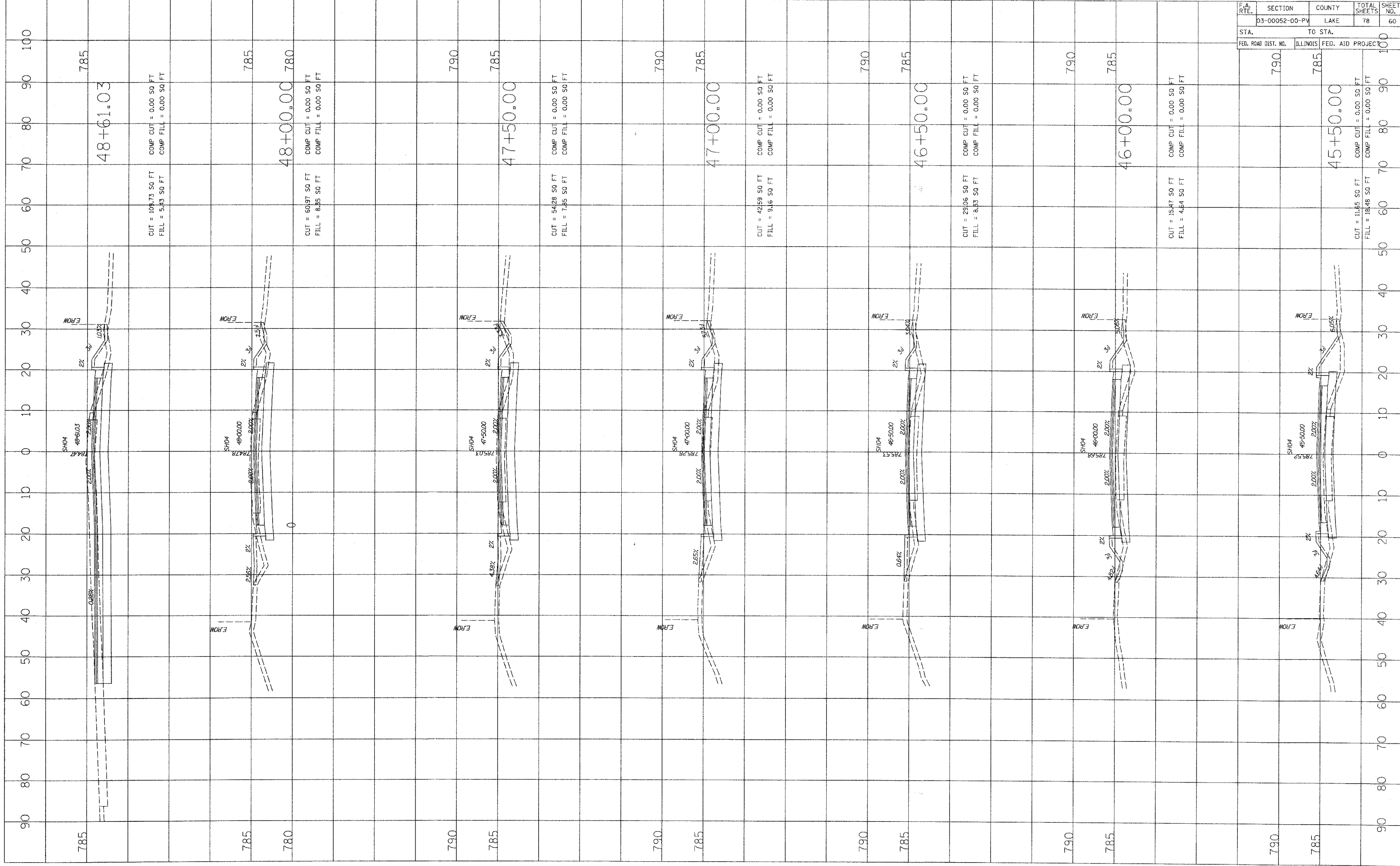
CONTRACT NO. 63002

PLOT DATE = 5/16/2009
 FILE NAME = P:\Projects\320200467\civil\320200467.dwg
 USER NAME = MACTEC

ORIGINAL SURVEYED
 SURVEY PLOTTED
 TEMPLATE
 AREAS CHECKED

FINAL SURVEY
 PLOTTED
 TEMPLATE
 AREAS CHECKED

BY: _____
 DATE: _____



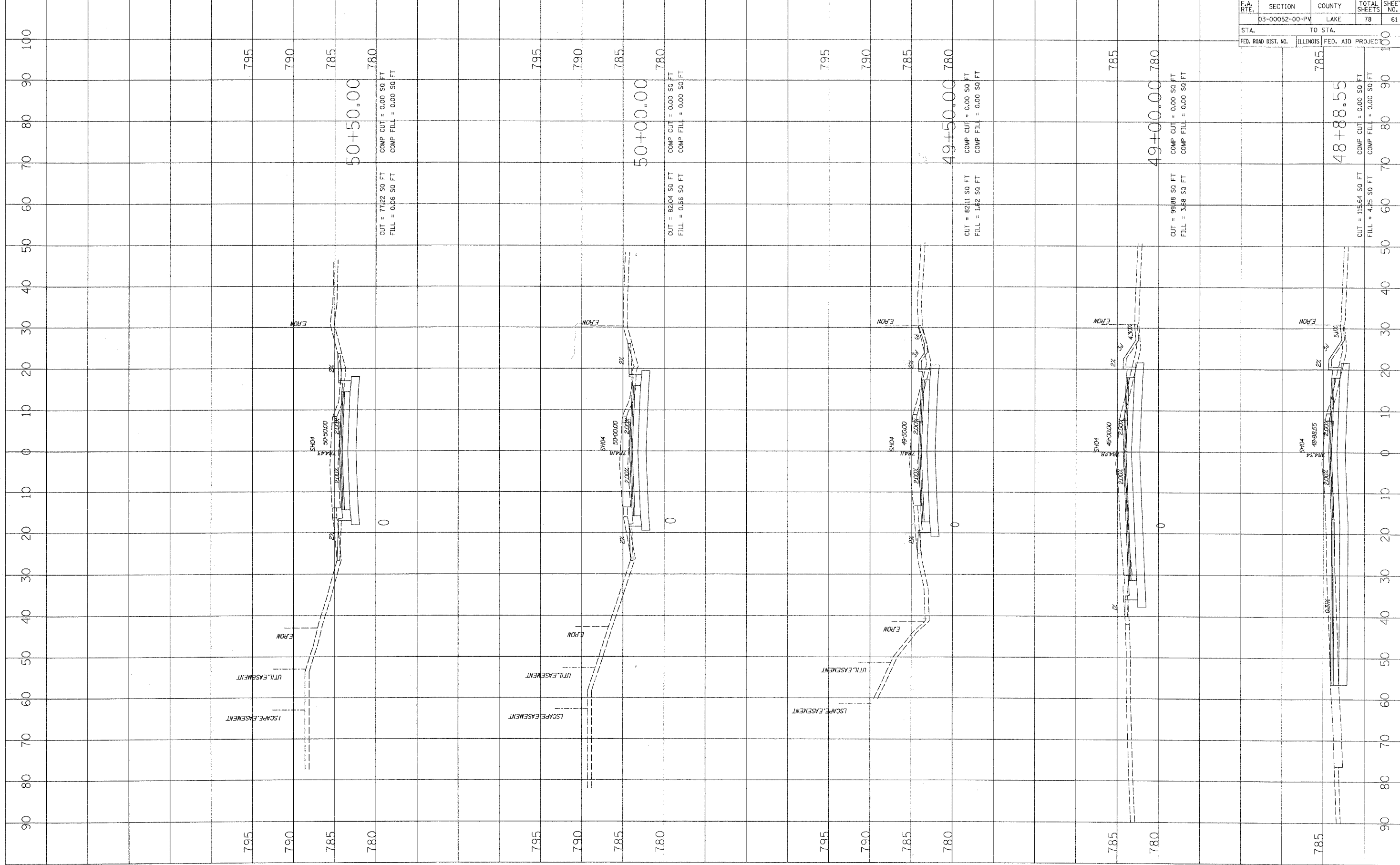
| | | | | | | | | | |
|---------------------|--|---------|--|---------------------------|--|--------------|--|-----------|--|
| F.A. RTE. | | SECTION | | COUNTY | | TOTAL SHEETS | | SHEET NO. | |
| 03-00052-00-PV | | LAKE | | 78 | | 60 | | 60 | |
| STA. | | | | TO STA. | | | | | |
| FED. ROAD DIST. NO. | | | | ILLINOIS FED. AID PROJECT | | | | | |

CONTRACT NO. 63002

PLOT DATE = 5/19/2008
 FILE NAME = p:\v\comp\3262306467\civil\shp\48+88.55.dwg
 USER NAME = MAC/EC

ORIGINAL SURVEY PLOTTED
 SURVEY NO. 1000000
 DATE

FINAL SURVEY PLOTTED
 SURVEY NO. 1000000
 DATE



50+50.00
 CUT = 77.22 SQ FT
 FILL = 0.06 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

50+00.00
 CUT = 82.04 SQ FT
 FILL = 0.66 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

49+50.00
 CUT = 82.11 SQ FT
 FILL = 1.42 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

49+00.00
 CUT = 99.88 SQ FT
 FILL = 3.68 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

48+88.55
 CUT = 115.64 SQ FT
 FILL = 4.25 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

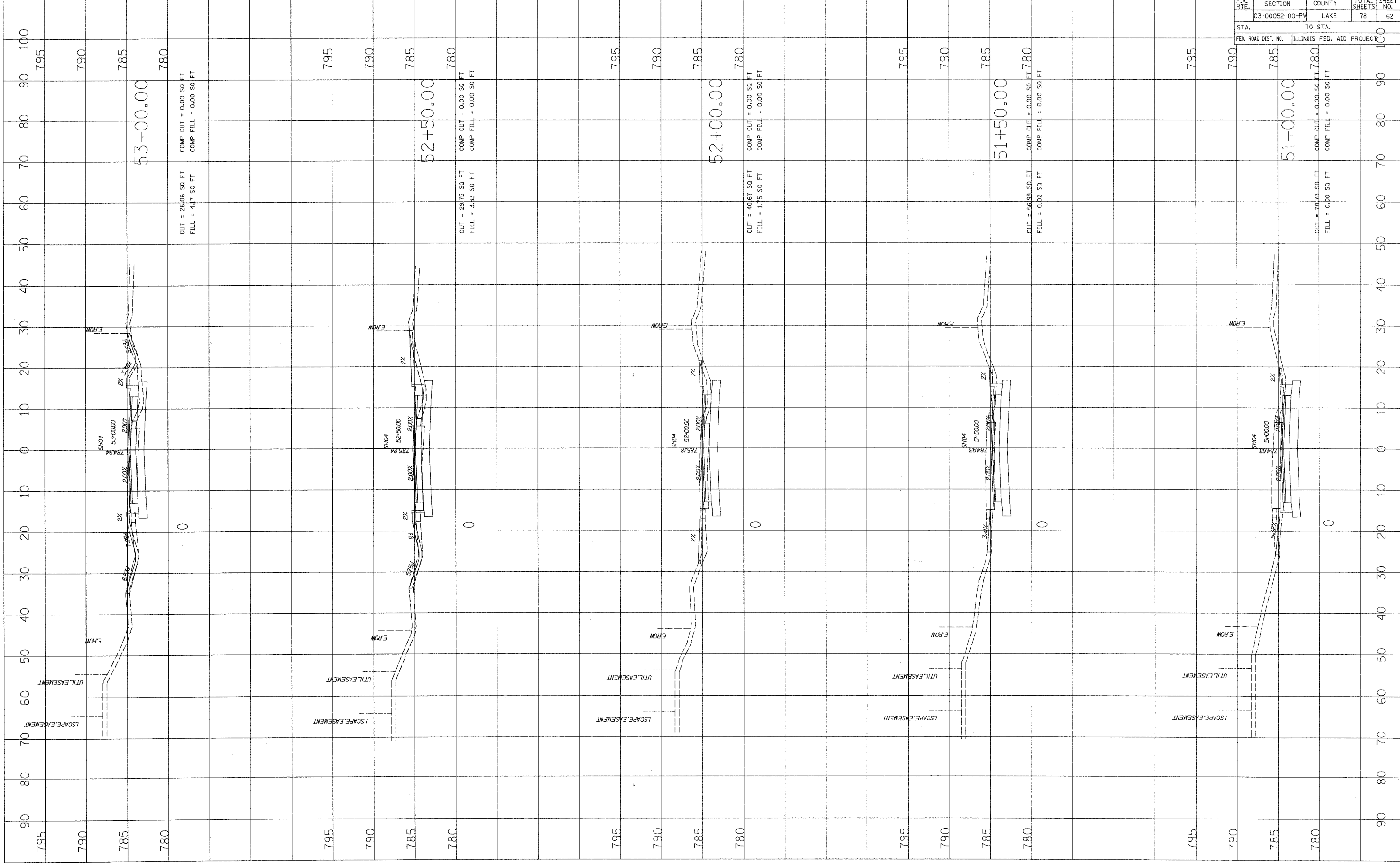
| CONTRACT NO. 63002 | | | | |
|---------------------|----------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 61 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

PLOT DATE = 5/16/2008
 FILE NAME = P:\CADD\p3202650467\511\1\511.dwg
 USER NAME = MACTEC

ORIGINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK TEMPLATE
 NO. AREAS CHECKED

FINAL SURVEY PLOTTED
 SURVEY PLOTTED
 NOTE BOOK TEMPLATE
 NO. AREAS CHECKED

BY: _____ DATE: _____



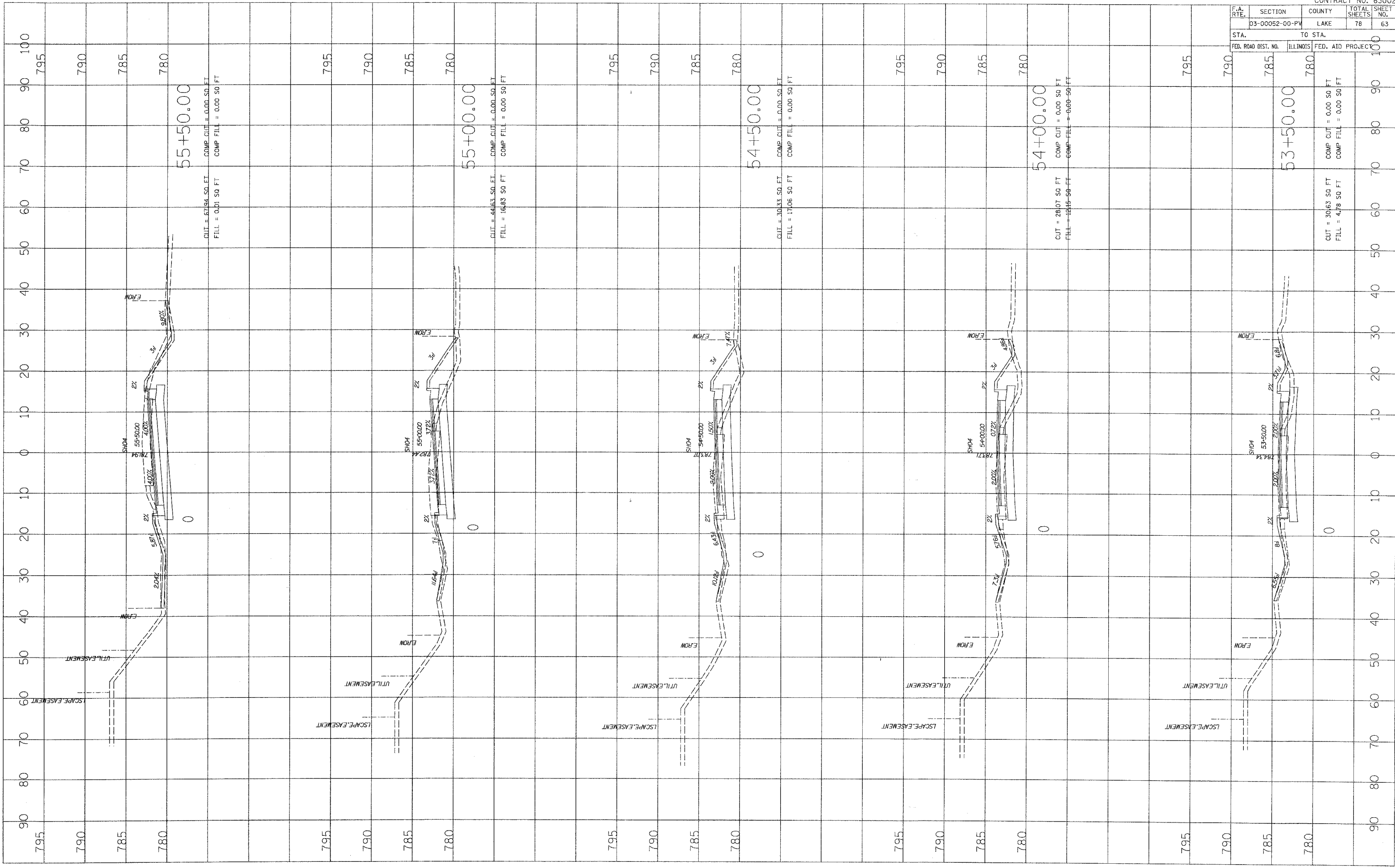
| | | | | | |
|---------------------|----------|---------|------------------|--------------|-----------|
| F.A. RTE. | | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| D3-00052-00-PV | | LAKE | ILLINOIS | 78 | 62 |
| STA. | TO STA. | | | | |
| FED. ROAD DIST. NO. | ILLINOIS | | FED. AID PROJECT | | |

CONTRACT NO. 63002

PLOT DATE = 5/16/2008
 FILE NAME = p:\v\p\3202066467\shp\shp\3202066467.dwg
 PLOT SCALE = NTS
 USER NAME = MCTEC

ORIGINAL SURVEY
 SURVEY NO. _____ DATE _____
 SURVEY BY _____
 NOTE BOOK NO. _____
 TEMPLATE AREA'S CHECKED _____
 NO. _____

FINAL SURVEY
 SURVEY NO. _____ DATE _____
 SURVEY BY _____
 NOTE BOOK NO. _____
 TEMPLATE AREA'S CHECKED _____
 NO. _____



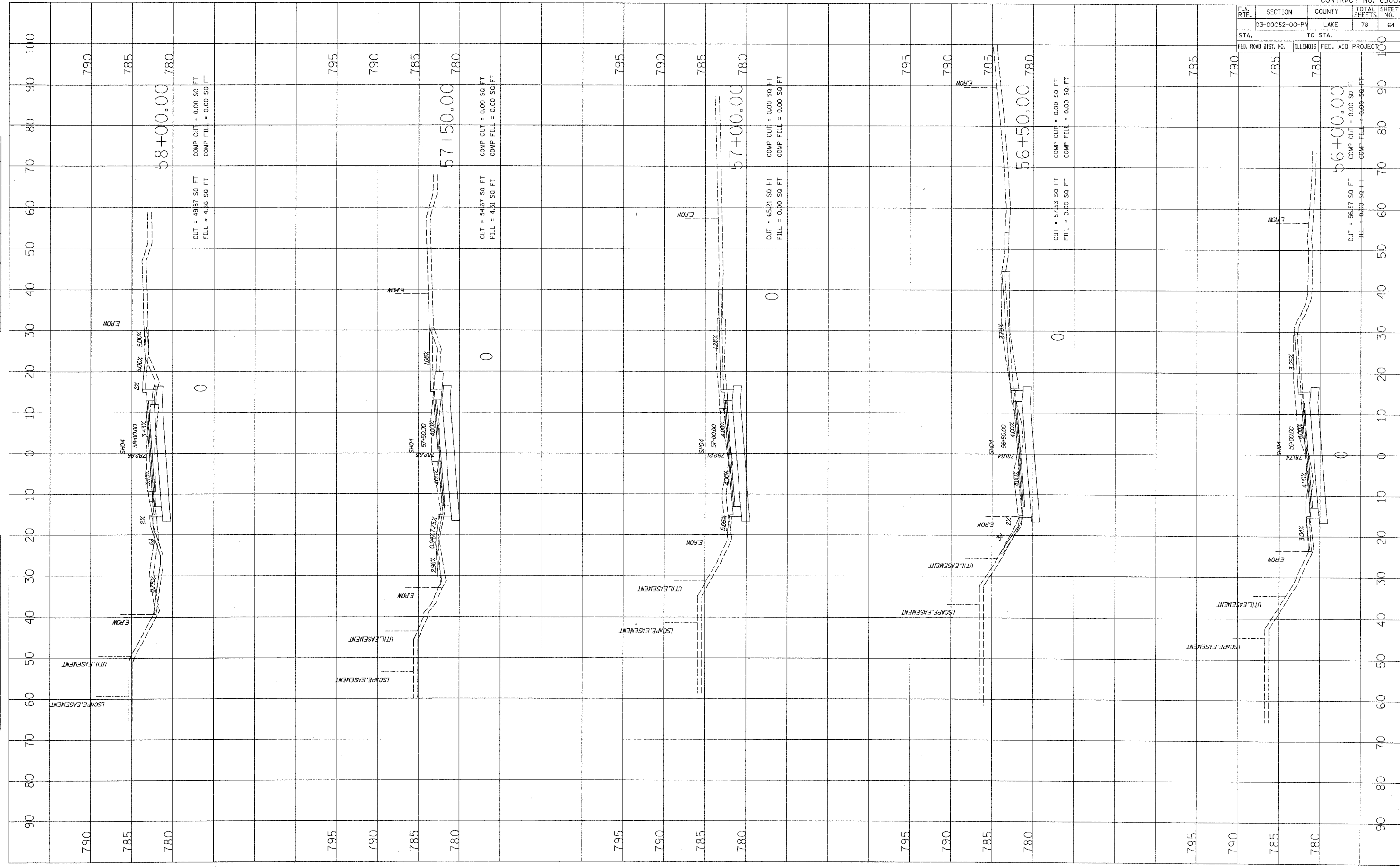
| | | | | | |
|---------------------|--|------------------|--|--------------|--|
| F.A. RTE. | | COUNTY | | TOTAL SHEETS | |
| 03-00052-00-PV | | LAKE | | 78 | |
| STA. | | TO STA. | | SHEET NO. | |
| FED. ROAD DIST. NO. | | ILLINOIS | | 78 | |
| | | FED. AID PROJECT | | 63 | |

CONTRACT NO. 63002

PLOT DATE = 5/16/2005
 PLOT SCALE = 1" = 40'
 USER NAME = MACTEC

ORIGINAL SURVEYED SURVEY PLOTTED
 NO. DATE BY

FINAL SURVEYED SURVEY PLOTTED
 NO. DATE BY



58+00.00
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

57+50.00
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

57+00.00
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

56+50.00
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

56+00.00
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

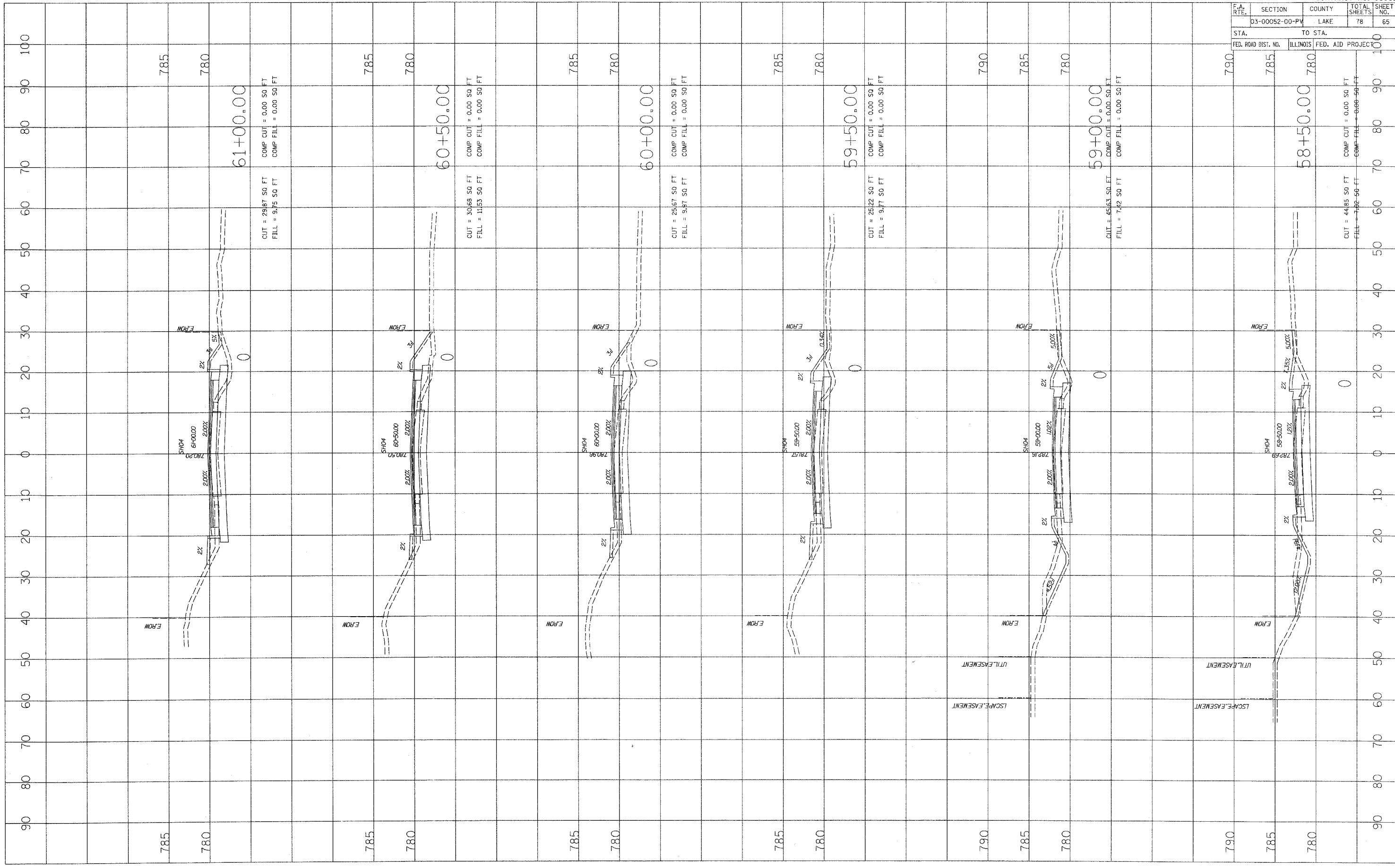
| | | | | |
|---------------------|----------------|-----------------|--------------|-----------|
| CONTRACT NO. 63002 | | | | |
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 64 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJEC | 100 | |

PLOT DATE = 5/16/2008
 FILE NAME = p:\p\08mp\3302200467\civ\as\08f\MP\0806\0806.dwg
 USER NAME = MACTEC

ORIGINAL SURVEY PLOTTED
 SURVEY PLOTTED
 TEMPLATE
 NO. AREAS CHECKED

FINAL SURVEY PLOTTED
 SURVEY PLOTTED
 TEMPLATE
 NO. AREAS CHECKED

BY: _____ DATE: _____



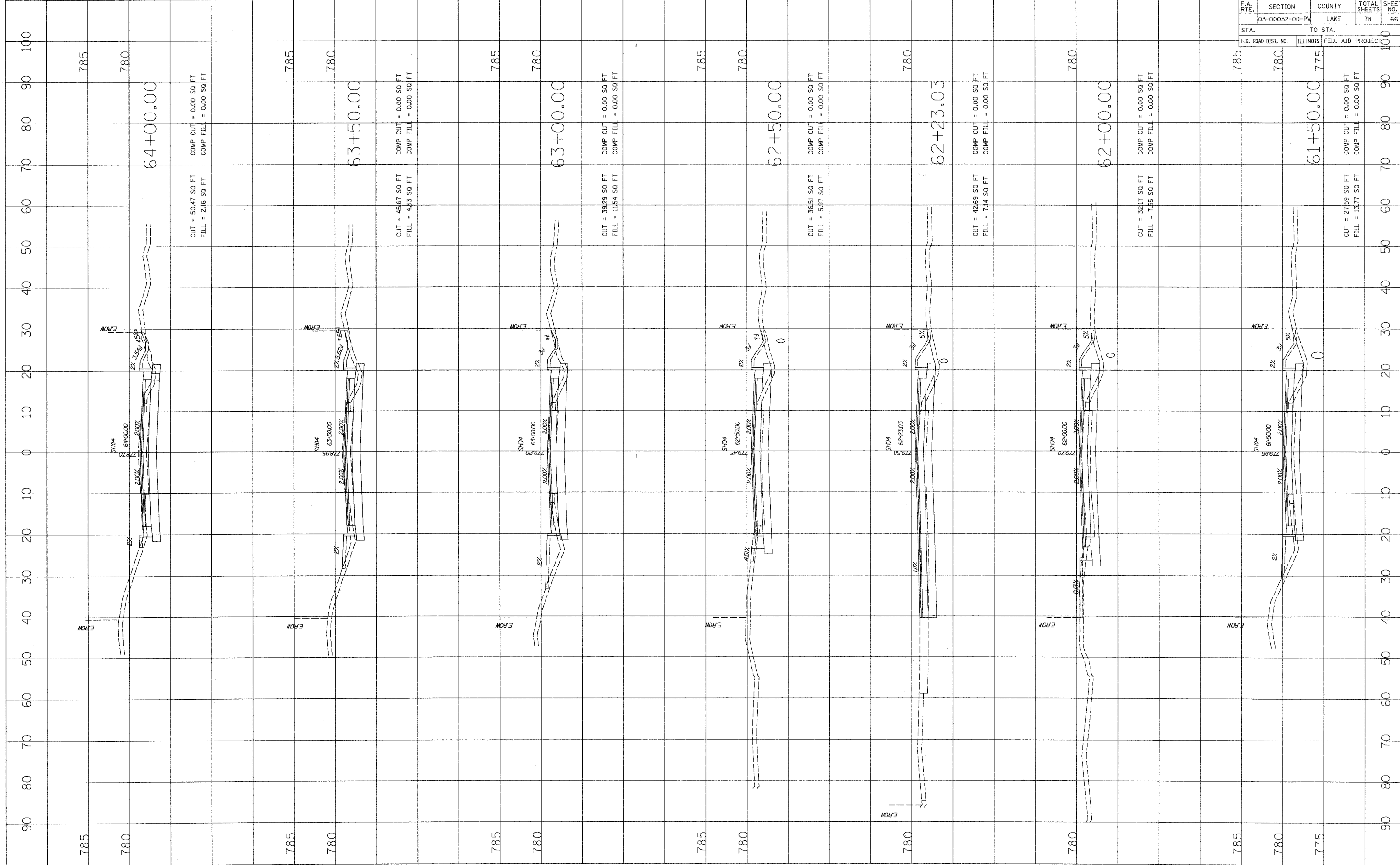
| | |
|---------------------|----------------------|
| CONTRACT NO. 63002 | |
| F.A. RTE. | SECTION |
| D3-00052-00-PV | LAKE |
| COUNTY | TOTAL SHEETS |
| ILLINOIS | 78 |
| TO STA. | SHEET NO. |
| 785 | 65 |
| FED. ROAD DIST. NO. | FED. AID PROJECT NO. |
| | 100 |

PLOT DATE = 5/16/2008
 FILE NAME = p:\1\comp\3202061467.dwg vs SHEET 78
 PLOT SCALE = NTS
 USER NAME = MCTEC

ORIGINAL SURVEY
 SURVEY PLOTTED
 TEMPLATE AREAS CHECKED
 NO.

FINAL SURVEY
 SURVEY PLOTTED
 TEMPLATE AREAS CHECKED
 NO.

BY DATE



CUT = 50.47 SQ FT
 FILL = 2.16 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 45.67 SQ FT
 FILL = 4.53 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 39.29 SQ FT
 FILL = 11.54 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 36.51 SQ FT
 FILL = 5.87 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 42.68 SQ FT
 FILL = 7.14 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 32.17 SQ FT
 FILL = 7.55 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

CUT = 27.59 SQ FT
 FILL = 13.77 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

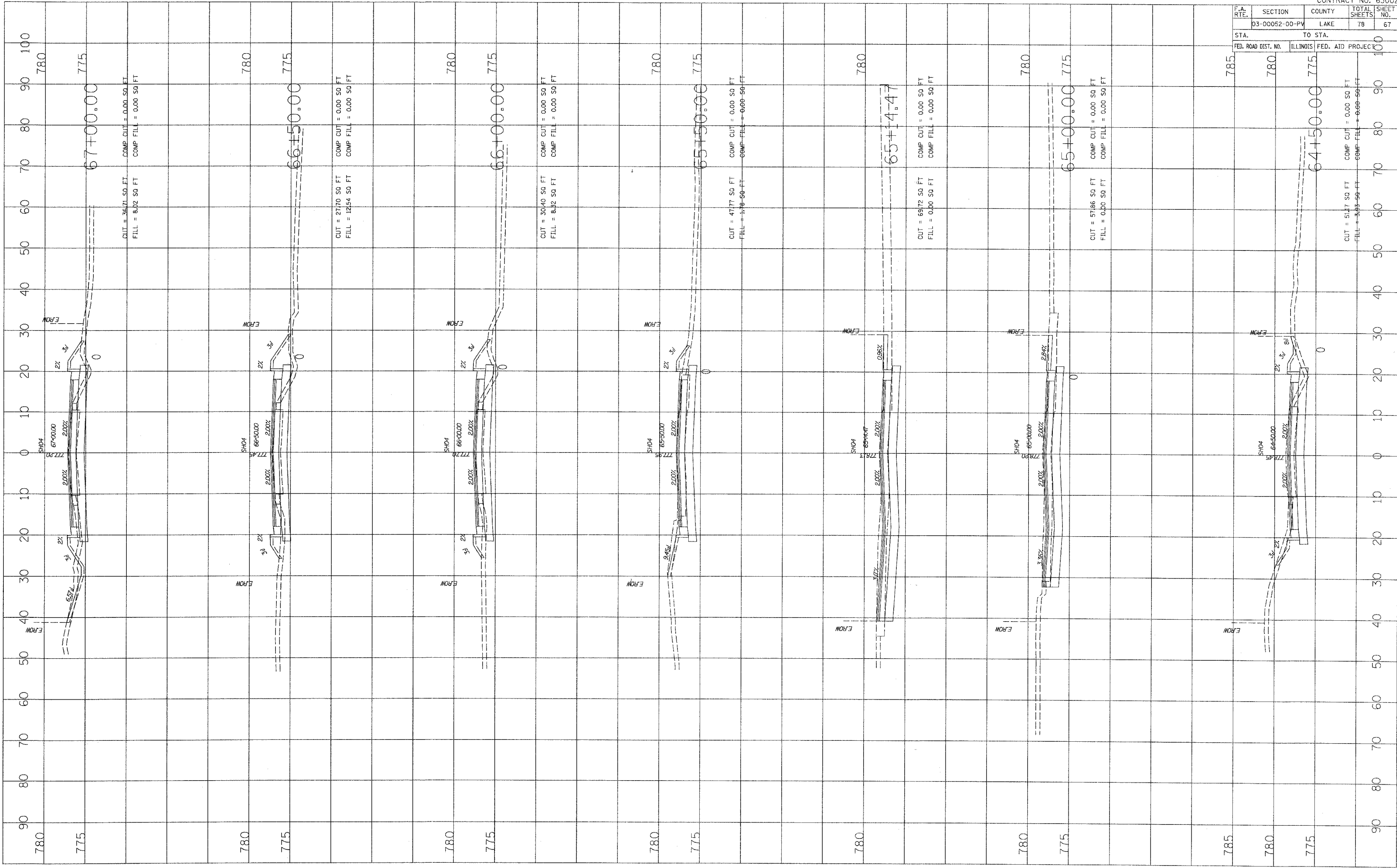
| | | | | | |
|---------------------|----------|------------------|--------|--------------|-----------|
| F.A. RTE. | | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | 03-00052-00-PV | LAKE | 78 | 66 |
| STA. | TO STA. | | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | | |

CONTRACT NO. 63002

PLOT DATE = 9/16/2008
 FILE NAME = P:\temp\32028467.dwg
 PLOT SCALE = NTS
 USER NAME = PICTEC

ORIGINAL SURVEY
 SURVEYED BY: _____ DATE: _____
 NOTE BOOK NO.: _____
 TEMPLATE AREAS CHECKED

FINAL SURVEY
 SURVEYED BY: _____ DATE: _____
 NOTE BOOK NO.: _____
 TEMPLATE AREAS CHECKED



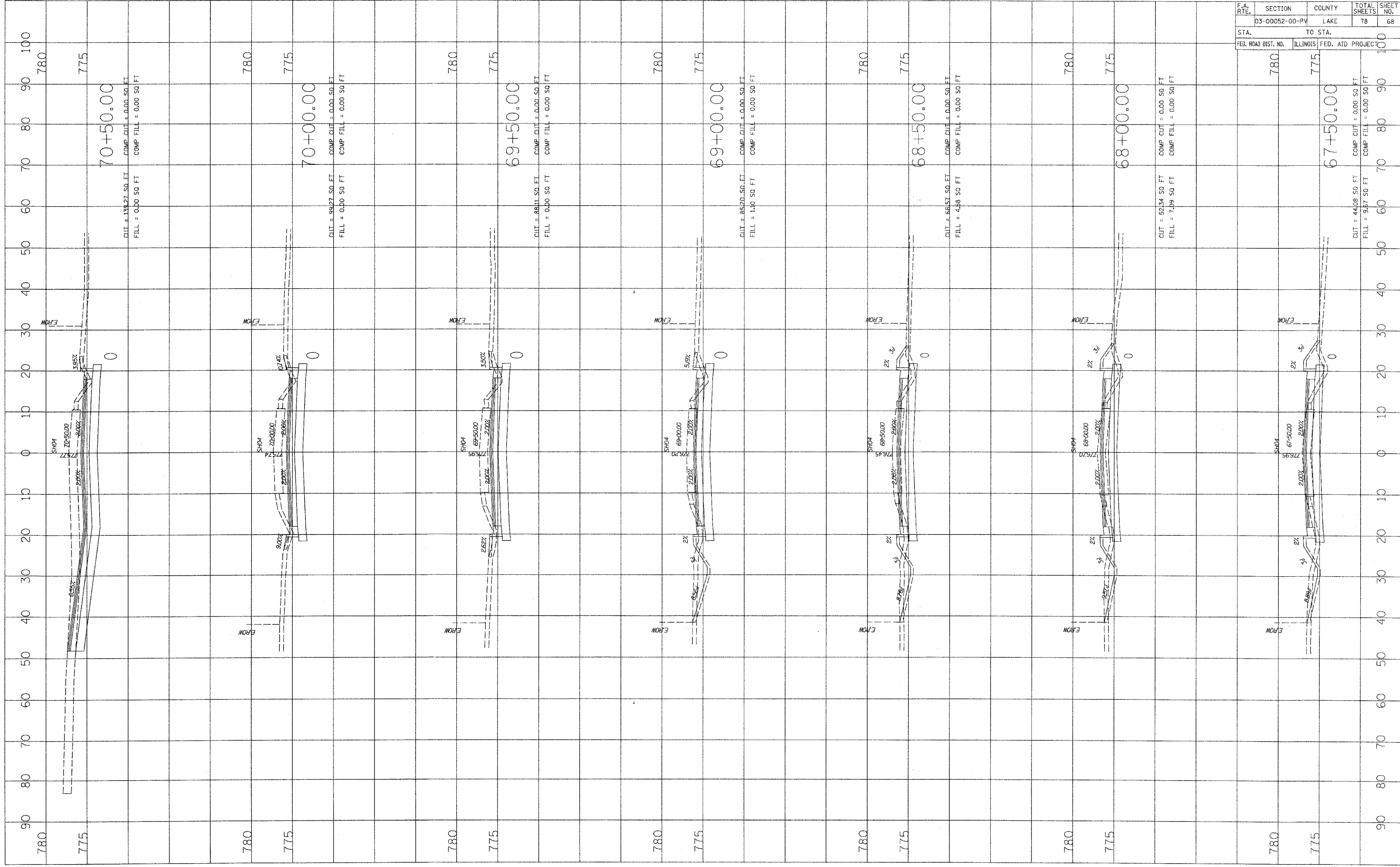
| | | | | |
|---------------------|----------------|---------------------------|--------------|-----------|
| CONTRACT NO. 63002 | | | | |
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | D3-00052-00-PV | LAKE | 78 | 67 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

PLOT DATE = 5/16/2008
 FILE NAME = p:\temp\320280487\ssv\ssv.dwg
 PLOT SCALE = NTS
 USER NAME = MJC/EC

ORIGINAL SURVEY PLOTTED AREAS CHECKED

FINAL SURVEY PLOTTED AREAS CHECKED

NO. BY DATE



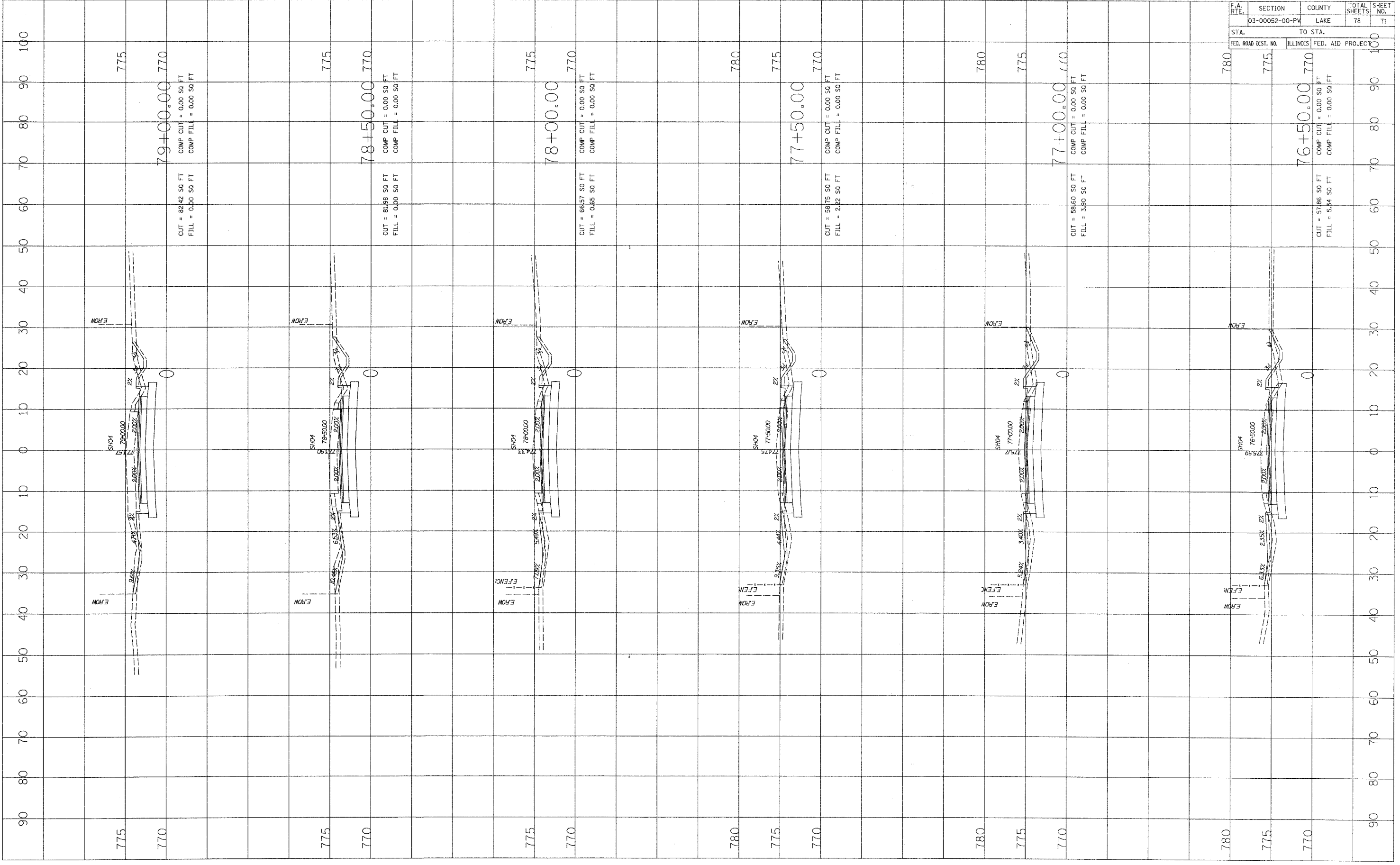
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|----------|------------------|--------------|-----------|
| 03-00052-00-PV | LAKE | 78 | 68 | |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | 100 | |

CONTRACT NO. 63002

PLOT DATE = 8/16/2008
 FILE NAME = p:\p\comp\3202660467\civil\shc\08162808\08162808.dwg
 PLOT SCALE = NTS
 USER NAME = MACTEC

ORIGINAL SURVEY SURVEYED BY DATE
 PLOTTED DATE
 NO. AREAS CHECKED

FINAL SURVEY SURVEYED BY DATE
 PLOTTED DATE
 NO. AREAS CHECKED



79+00.00 770
 CUT = 8242 SQ FT
 FILL = 0.00 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

78+50.00 770
 CUT = 8188 SQ FT
 FILL = 0.00 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

78+00.00 770
 CUT = 6657 SQ FT
 FILL = 0.00 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

77+50.00 770
 CUT = 5875 SQ FT
 FILL = 2.02 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

77+00.00 770
 CUT = 5860 SQ FT
 FILL = 3.00 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

76+50.00 770
 CUT = 5786 SQ FT
 FILL = 5.04 SQ FT
 COMP CUT = 0.00 SQ FT
 COMP FILL = 0.00 SQ FT

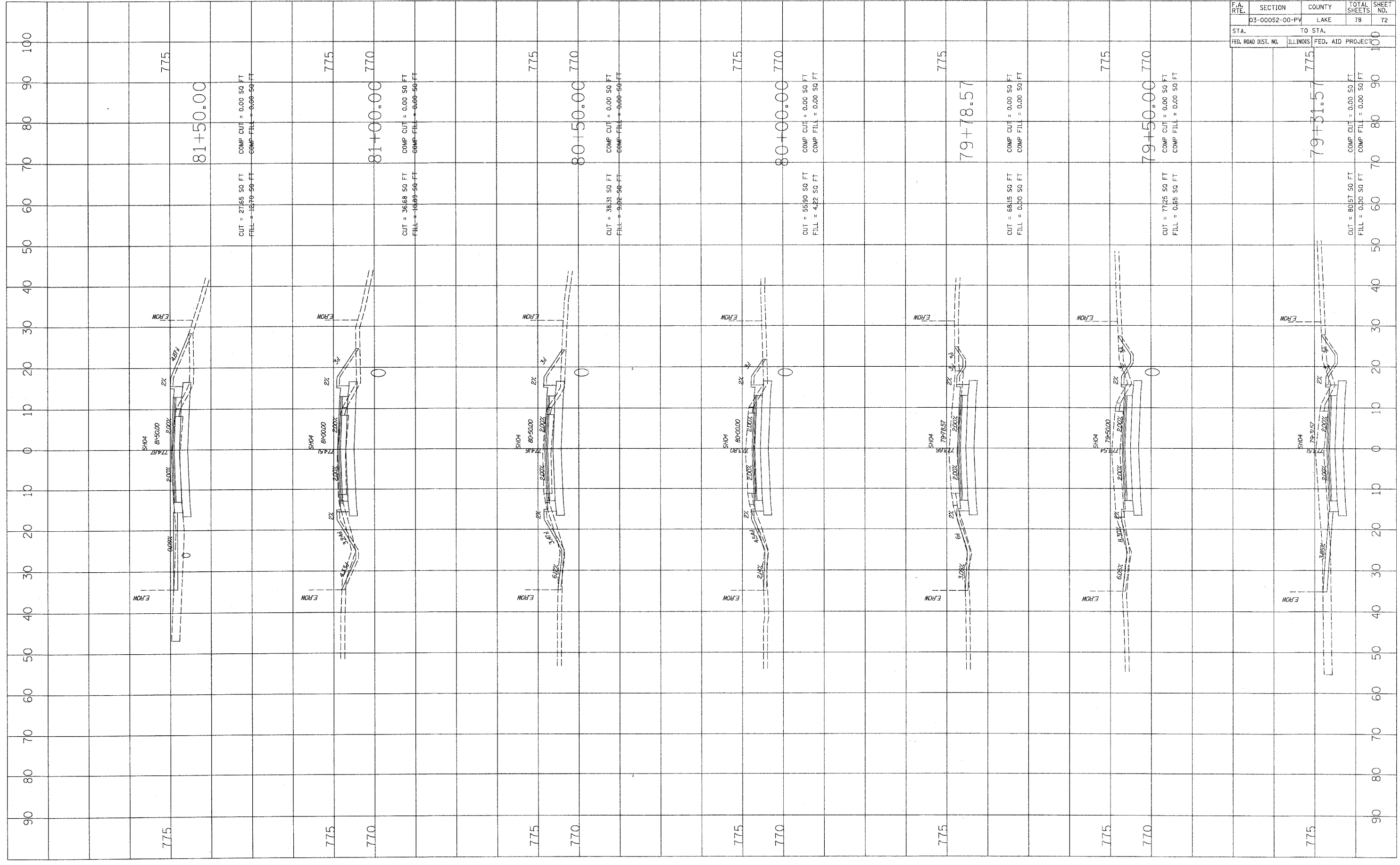
| | | | | |
|---------------------|----------------|---------------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 71 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

CONTRACT NO. 63002

PLOT DATE = 8/16/2008
 FILE NAME = P:\V\mnpa\320280\67\cvt\mnpa\SHR\81+50.00\81+50.00.dwg
 PLOT SCALE = NTS
 USER NAME = MJC/TEC

ORIGINAL SURVEY
 SURVEY NO. _____
 DATE _____
 BY _____
 AREAS CHECKED _____

FINAL SURVEY
 SURVEY NO. _____
 DATE _____
 BY _____
 AREAS CHECKED _____



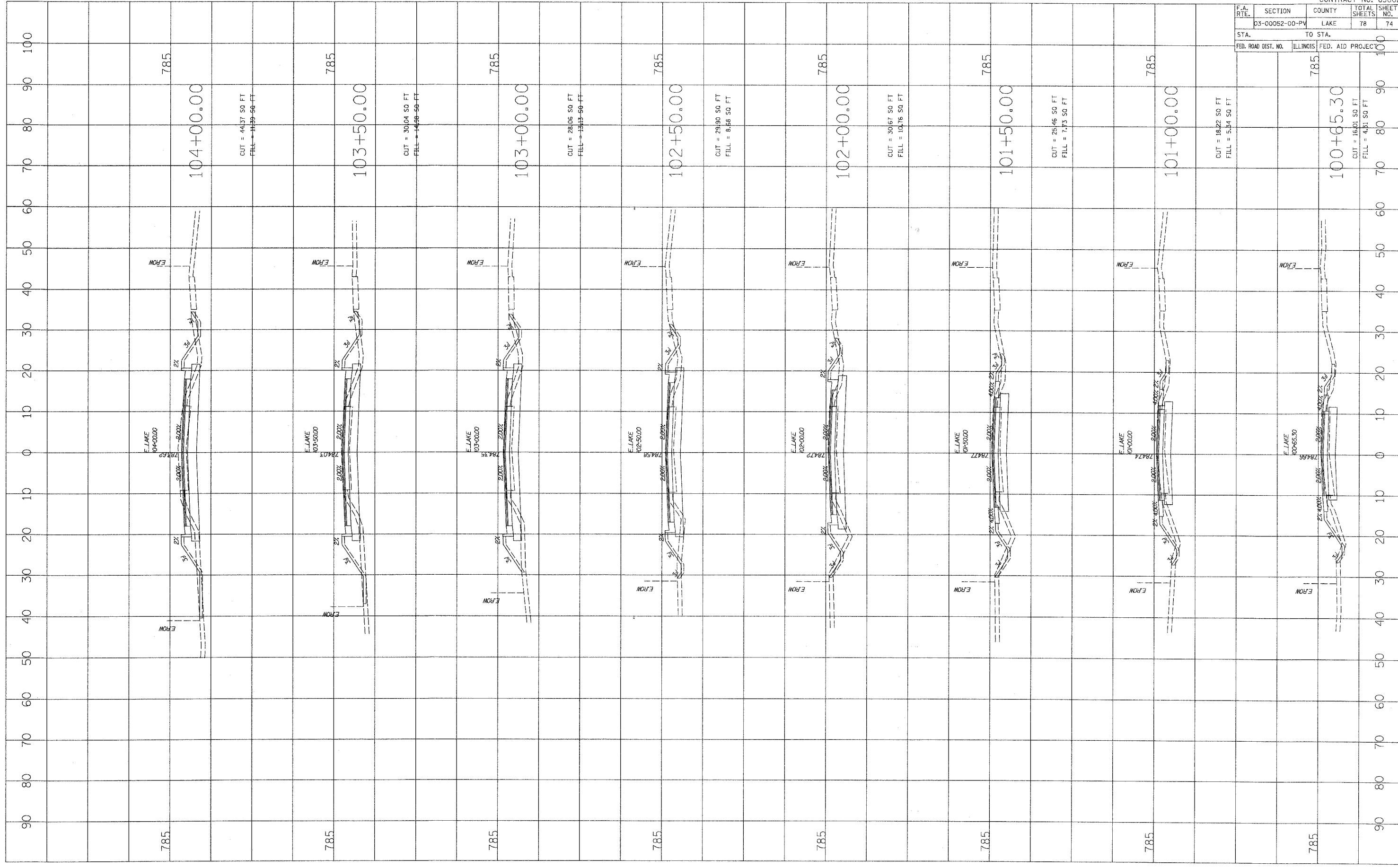
| | | | | |
|---------------------|----------------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 72 |
| STA. | TO STA. | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | 100 | |

| | | | |
|-----|----------|---------------------------------------|---|
| 775 | 81+50.00 | CUT = 2765 SQ FT FILL = 1270 SQ FT | COMP CUT = 0.00 SQ FT COMP FILL = 0.00 SQ FT |
| 775 | 81+00.00 | CUT = 3668 SQ FT FILL = 1689 SQ FT | COMP CUT = 0.00 SQ FT COMP FILL = 0.00 SQ FT |
| 775 | 80+50.00 | CUT = 3631 SQ FT FILL = 932 SQ FT | COMP CUT = 0.00 SQ FT COMP FILL = 0.00 SQ FT |
| 775 | 80+00.00 | CUT = 5590 SQ FT FILL = 422 SQ FT | COMP CUT = 0.00 SQ FT COMP FILL = 0.00 SQ FT |
| 775 | 79+78.57 | CUT = 6815 SQ FT FILL = 0.00 SQ FT | COMP CUT = 0.00 SQ FT COMP FILL = 0.00 SQ FT |
| 775 | 79+50.00 | CUT = 7725 SQ FT FILL = 0.65 SQ FT | COMP CUT = 0.00 SQ FT COMP FILL = 0.00 SQ FT |
| 775 | 79+31.57 | CUT = 8057 SQ FT FILL = 0.00 SQ FT | COMP CUT = 0.00 SQ FT COMP FILL = 0.00 SQ FT |

PLOT DATE = 5/16/2008
 FILE NAME = P:\temp\320260467\cas\cas\LAKE\MATP805399.PLOT
 PLOT SCALE = NTS
 USER NAME = MACTEC

| ORIGINAL SURVEY NO. | DATE |
|---------------------|------|
| | |
| | |
| | |

| FINAL SURVEY NO. | DATE |
|------------------|------|
| | |
| | |
| | |



| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|--------|--------------|-----------|
| | 03-00052-00-PV | LAKE | 78 | 74 |

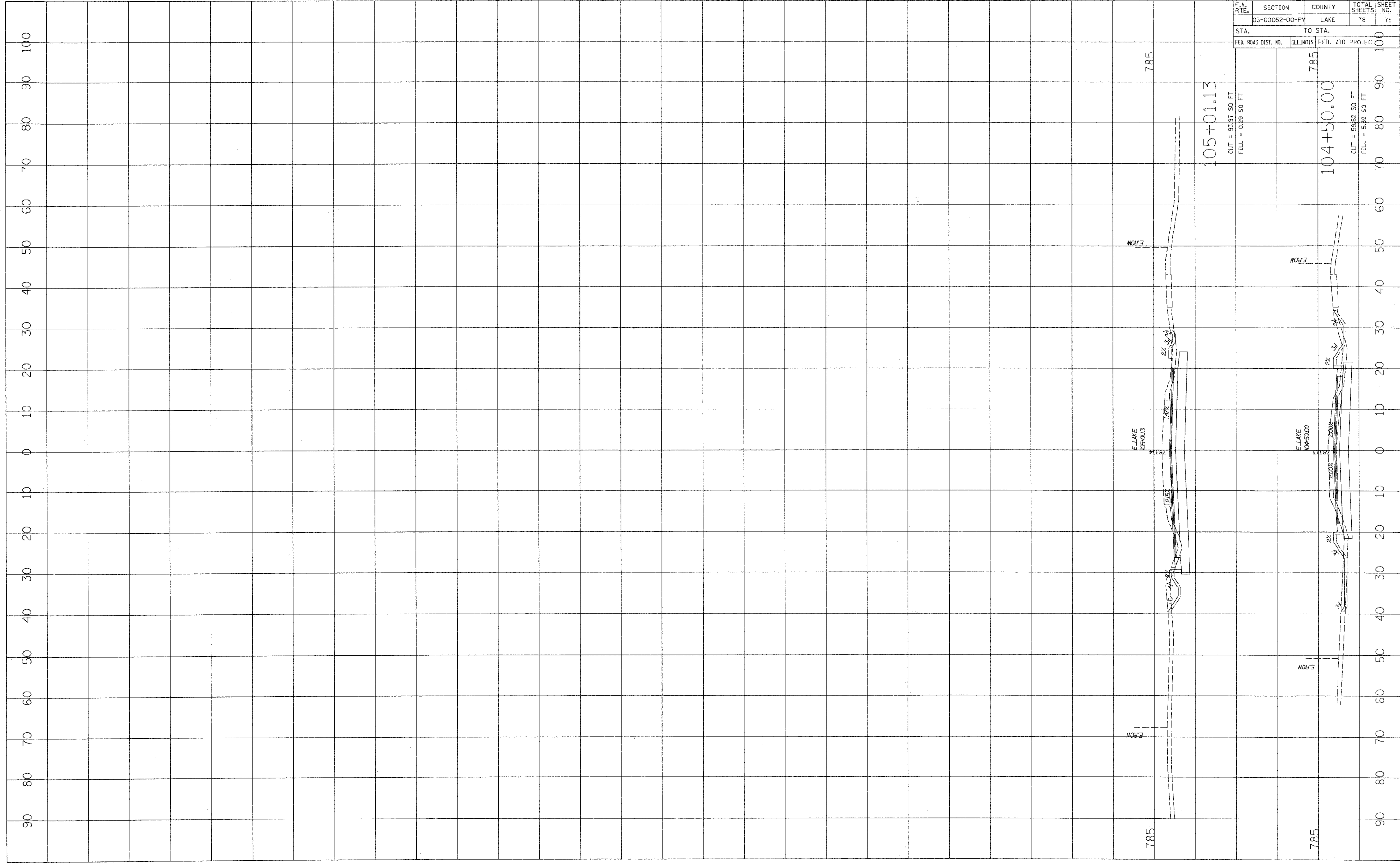
| STA. | TO STA. | FED. AID PROJEC |
|------|---------|-----------------|
| | | |

| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJEC |
|---------------------|----------|-----------------|
| | | |

PLOT DATE = 8/16/2008
 FILE NAME = P:\Projects\3202050467\3202050467.dwg
 PLOT SCALE = NTS
 USER NAME = MHC/TEC

| ORIGINAL SURVEY | DATE |
|-----------------|------|
| | |
| | |
| | |
| | |
| | |

| FINAL SURVEY | DATE |
|--------------|------|
| | |
| | |
| | |
| | |
| | |



| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------|----------------|--------|--------------|-----------|
| | 03-00052-00-PV | LAKE | 78 | 75 |
| | | | | |
| | | | | |

| STA. | TO STA. |
|------|---------|
| | |
| | |
| | |

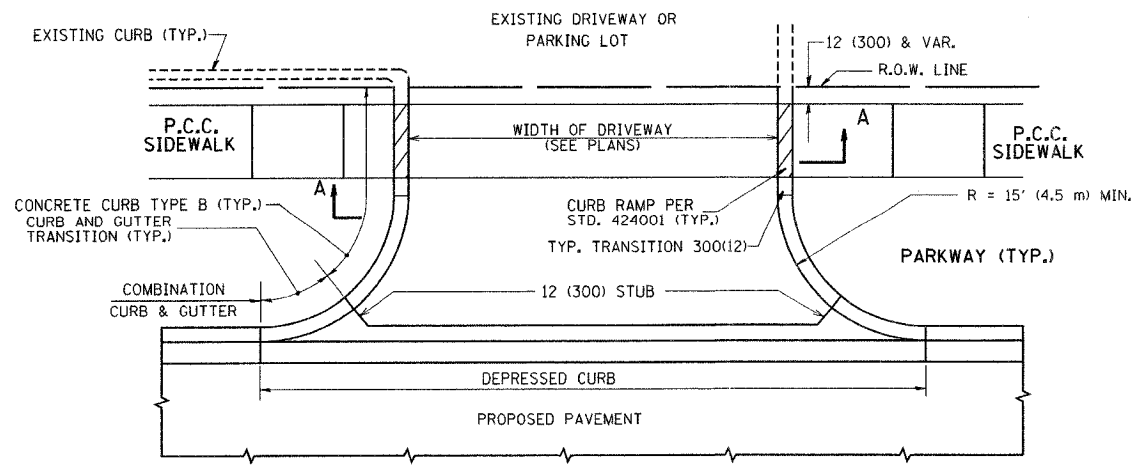
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT |
|---------------------|----------|------------------|
| | | |
| | | |
| | | |

105+01.13

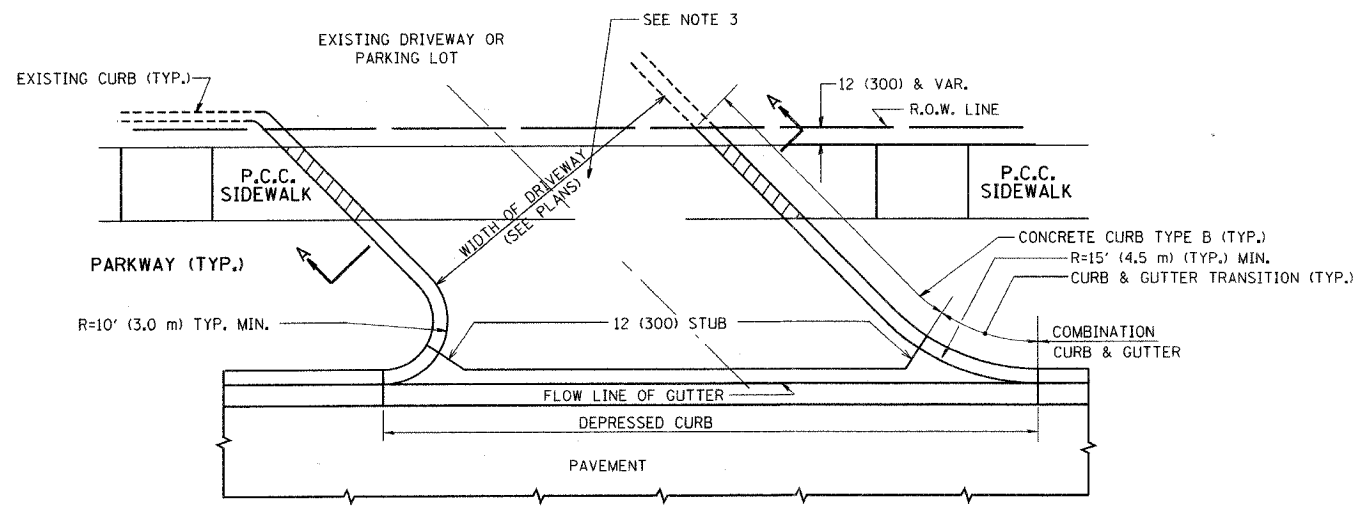
CUT = 9397 SQ FT
 FILL = 0.99 SQ FT

104+50.00

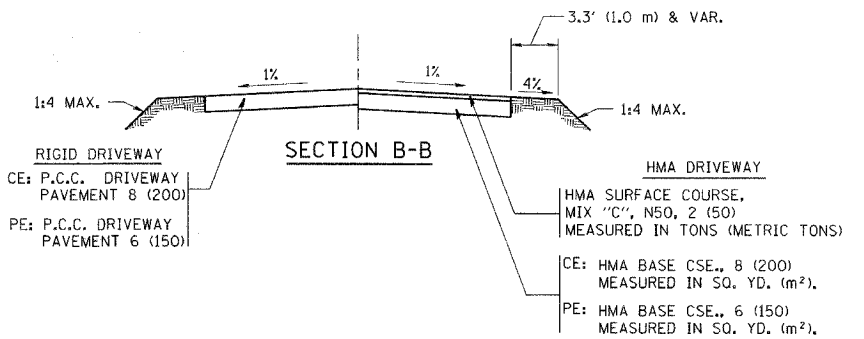
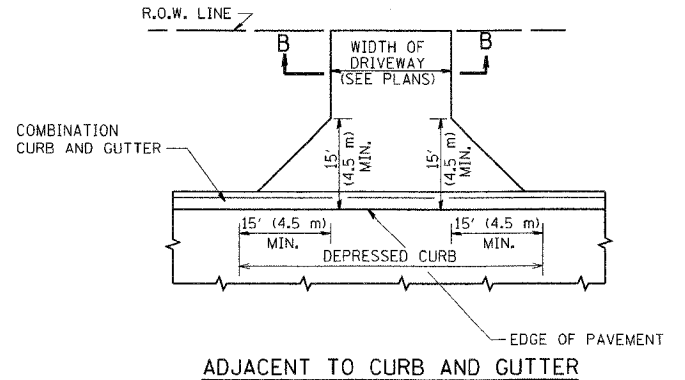
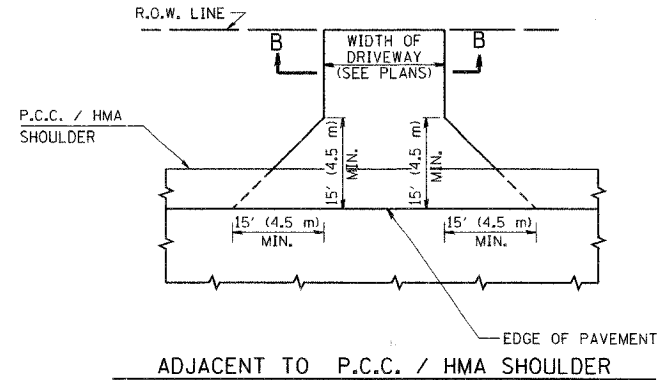
CUT = 5962 SQ FT
 FILL = 5.99 SQ FT



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



RURAL FIELD ENTRANCE (FE)

HMA SURFACE COURSE, MIX "C", N50, 2 (50) MEASURED IN TONS (METRIC TONS)

AGGREGATE BASE CSE., TYPE A 8 (200) MEASURED IN SQ. YD. (m²).

GENERAL NOTES:

DRIVEWAY SLOPES, LOCATIONS, & GEOMETRIC LAYOUT SHALL BE IN ACCORDANCE WITH THE LATEST EDITION OF THE "HANDBOOK FOR POLICY ON PERMITS FOR ACCESS DRIVEWAYS TO STATE HIGHWAYS". FOR FURTHER LAYOUT REQUIREMENTS, REFER TO ILLUSTRATIONS IN THE PERMIT HANDBOOK. DRIVEWAYS SHALL BE REPLACED IN KIND, UNLESS OTHERWISE NOTED ON THE PLANS.

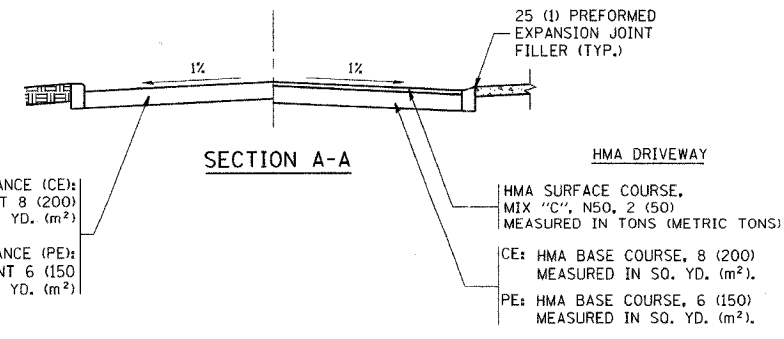
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC PERMIT OFFICE AT 847/ 705-4131 FOR ANY QUESTIONS ON DRIVEWAYS SHOWN IN THE PLANS; SPECIFICALLY IN REFERENCE TO ADDITIONAL AND/OR RELOCATION/REMOVAL OF A DRIVEWAY.

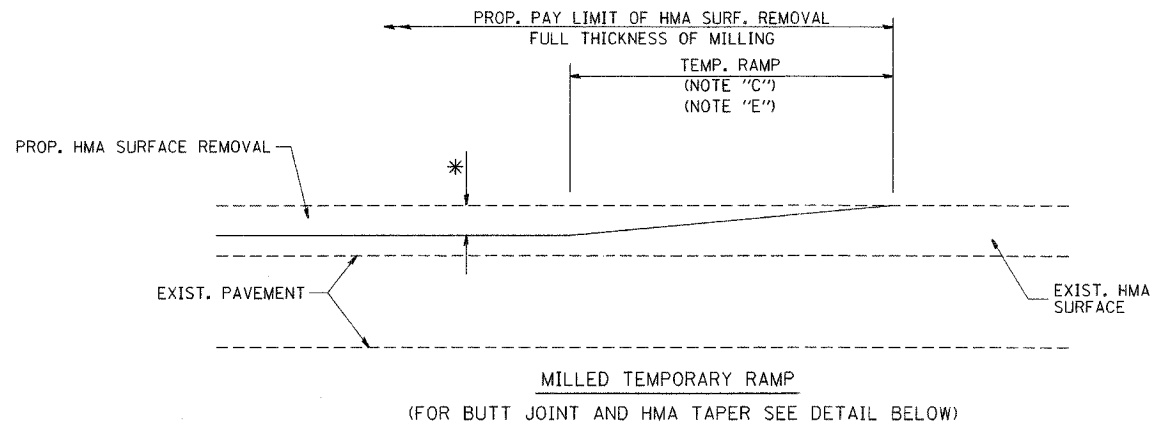
COMBINATION CONCRETE CURB & GUTTER SHALL BE MEASURED STRAIGHT ACROSS THE DRIVEWAY. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR THE CURB & GUTTER TRANSITION.

1 (25) PREFORMED EXPANSION JOINT FILLER WILL NOT BE PAID SEPARATELY, BUT SHALL BE CONSIDERED INCLUDED IN THE COST OF THE P.C.C. DRIVEWAY PAVEMENT OR P.C.C. SIDEWALK.

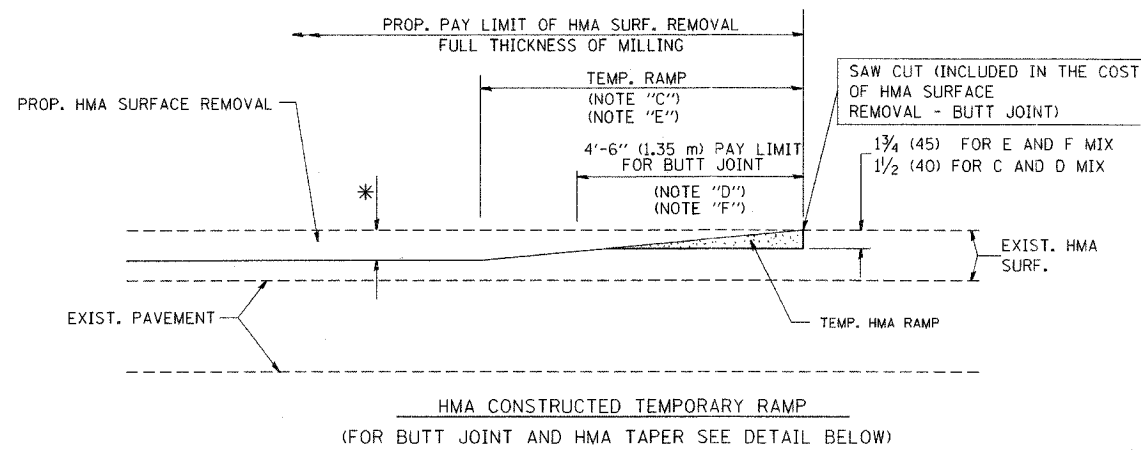
WHEN THE P.C.C. SIDEWALK EXTENDS THROUGH THE DRIVEWAY, THE THICKNESS OF THE SIDEWALK IN THE DRIVEWAY AREA SHALL BE THE SAME AS THE DRIVEWAY THICKNESS. SIDEWALK WILL BE PAID FOR AS P.C.C. SIDEWALK OF THE THICKNESS SPECIFIED. SIDEWALK CROSS SLOPE THRU DRIVEWAY AREA TO BE A MAXIMUM OF 1:50.



| | | | | | | | | | | | |
|---|-----------------------------|--------------------|-------------------------------|---|---|-------------------------|-----------|---|--------------|--------------|-----------|
| FILE NAME = W:\dststd\22x34\bd01.dgn | USER NAME = geglano | DESIGNED - R. SHAH | REVISED - T. HOLTZ 04-08-97 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W. AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m) | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE = 50.0000' / IN. | DRAWN - | REVISED - M. GOMEZ 04-06-01 | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | 03-00052-00-PV | LAKE | 78 | 78 |
| | PLOT DATE = 1/4/2008 | CHECKED - | REVISED - P. LaFLUER 04-15-03 | | | | | BD0156-07 (BD-01) | CONTRACT NO. | | 63002 |
| | | DATE - 11-04-95 | REVISED - R. BORD 01-01-07 | | | | | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | |

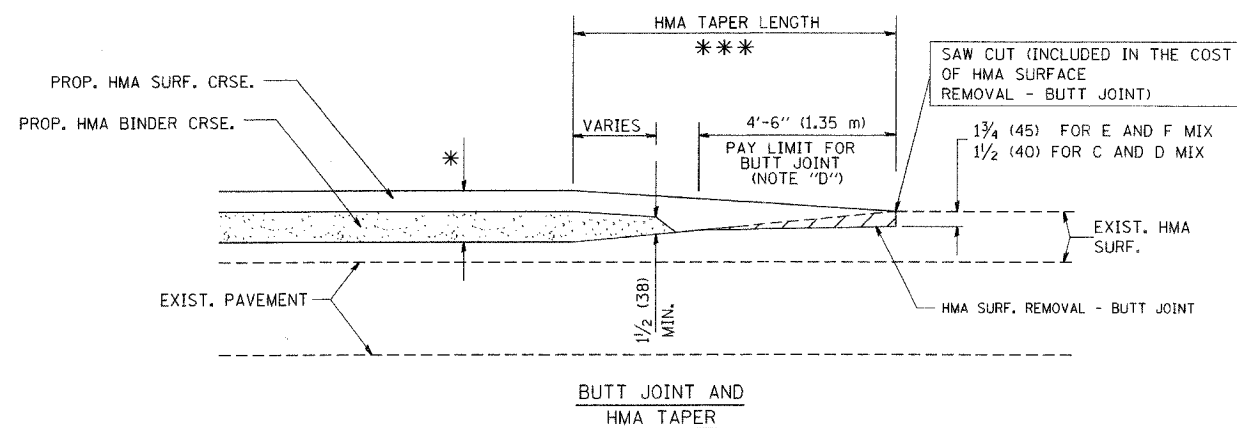


OPTION 1

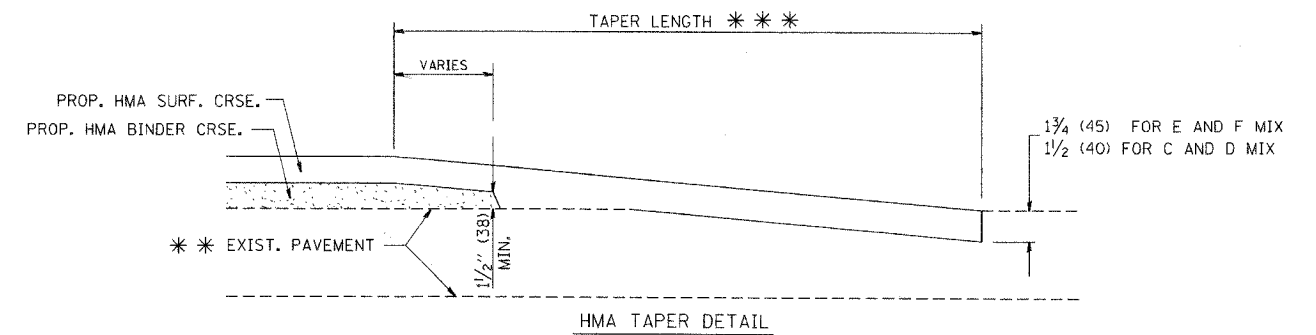
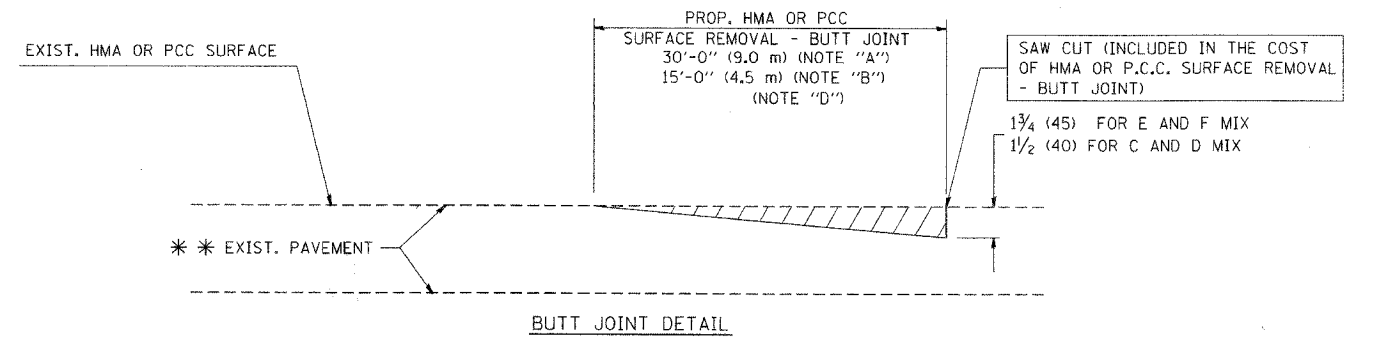


OPTION 2

TYPICAL TEMPORARY RAMP



**TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING**



**TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY**

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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

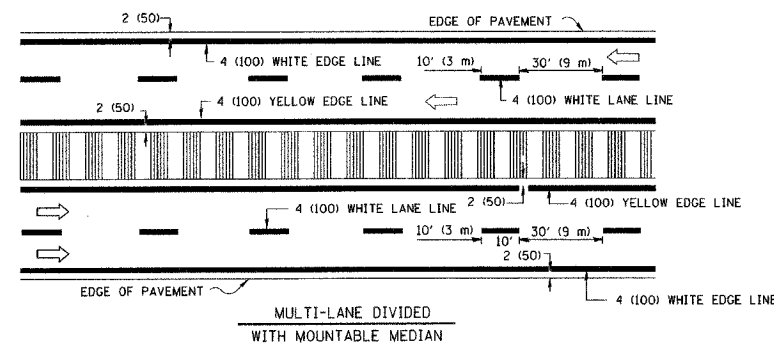
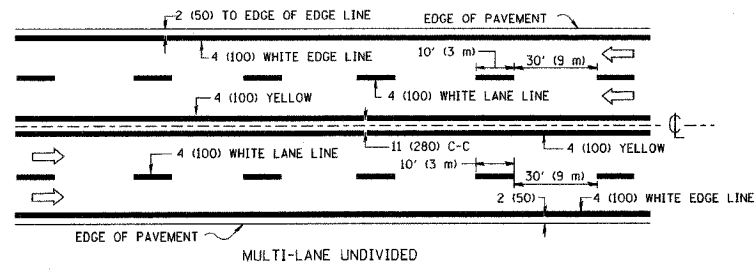
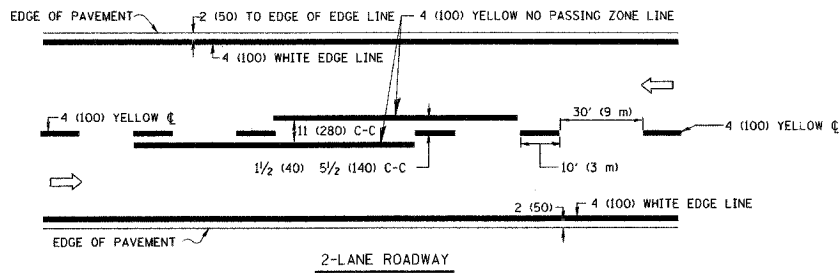
| | | | |
|---|-----------------------------|-----------------------|-----------------------------|
| FILE NAME = W:\dotstd\22x34\bd32.dgn | USER NAME = goghenobt | DESIGNED - M. DE YONG | REVISED - R. SHAH 10-25-94 |
| | | DRAWN - | REVISED - A. ABBAS 03-21-97 |
| | PLOT SCALE = 50.0000' / IN. | CHECKED - | REVISED - M. GOMEZ 04-06-01 |
| | PLOT DATE = 1/4/2008 | DATE - 06-13-90 | REVISED - R. BORO 01-01-07 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

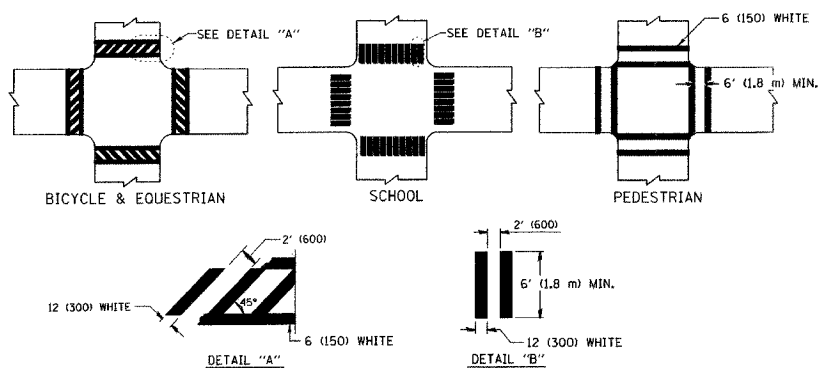
**BUTT JOINT AND
HMA TAPER DETAILS**

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

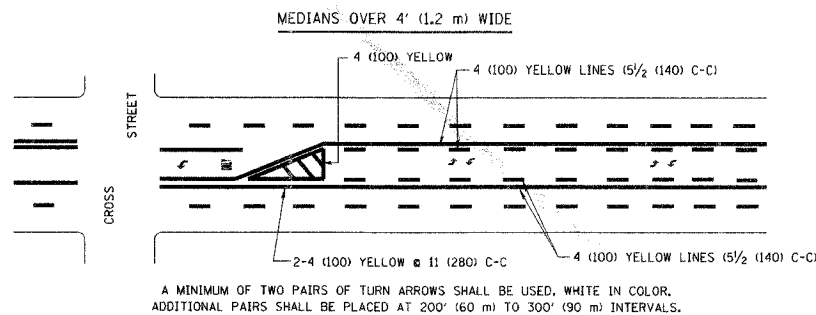
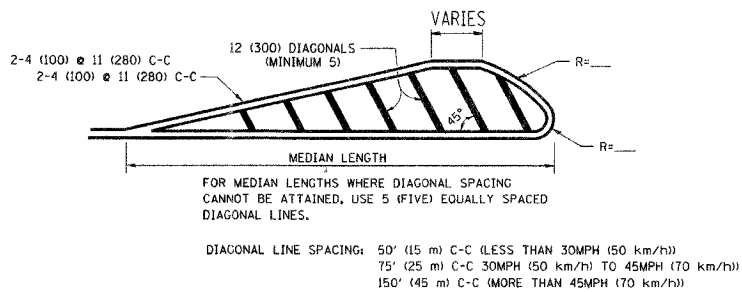
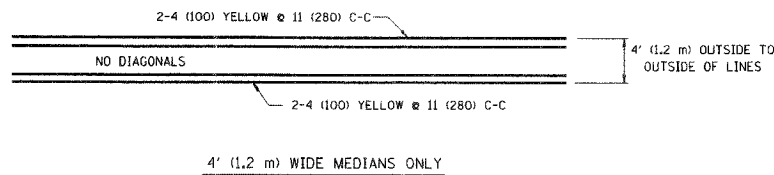
| | | | | |
|---|----------------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 77 |
| BD400-05 BD32 | | | CONTRACT NO. 93002 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



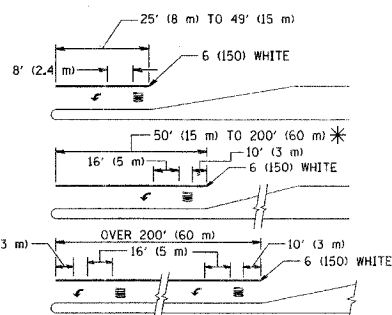
TYPICAL LANE AND EDGE LINE MARKING



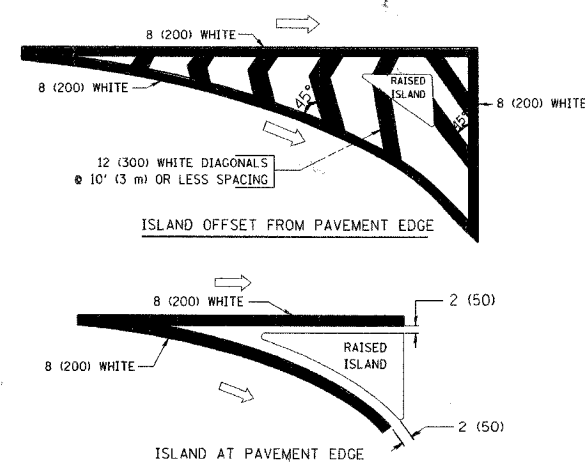
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING

| TYPE OF MARKING | WIDTH OF LINE | PATTERN | COLOR | SPACING / REMARKS |
|---|--|---------------------------------|---|--|
| CENTERLINE ON 2 LANE PAVEMENT | 4 (100) | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 @ 4 (100) | SOLID | YELLOW | 11 (280) C-C |
| NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS | 4 (100) 2 @ 4 (100) | SOLID SOLID | YELLOW YELLOW | 5/2' (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100) 5 (125) ON FREEWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) | SAME AS LINE BEING EXTENDED | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8 m) SPACE |
| EDGE LINES | 4 (100) | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB |
| TURN LANE MARKINGS | 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| TWO WAY LEFT TURN MARKING | 2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2' (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS. |
| STOP LINES | 24 (600) | SOLID | WHITE | PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE |
| PAINTED MEDIANS | 2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS | SOLID | YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC | 11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING. |
| CORE MARKING AND CHANNELIZING LINES | 8 (200) WITH 12 (300) DIAGONALS @ 45° | SOLID | WHITE | DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C (30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h)) |
| RAILROAD CROSSING | 24 (600) TRANSVERSE LINES; "RR" 15 6" (1.8 m) LETTERS; 16 (400) LINE FOR "X" | SOLID | WHITE | SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²) |
| SHOULDER DIAGONALS | 12 (300) @ 45° | SOLID | WHITE - RIGHT YELLOW - LEFT | 50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h)) |

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

| | | | |
|--------------------------------------|---------------------------|------------------|---------------------------------|
| FILE NAME = W:\dststd\22x34\to13.dgn | USER NAME = gagliencht | DESIGNED - EVERS | REVISED - T. RAMMACHER 10-27-94 |
| | | DRAWN - | REVISED - A. HOUSEH 10-09-96 |
| | PLOT SCALE = 50.000 / IN. | CHECKED - | REVISED - A. HOUSEH 10-17-96 |
| | PLOT DATE = 1/4/2008 | DATE - 03-19-90 | REVISED - T. RAMMACHER 01-06-00 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

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

| | | | | |
|---|----------------|--------------|--------------|-----------|
| F.A. - RT. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | 03-00052-00-PV | LAKE | 78 | 78 |
| | TC-13 | CONTRACT NO. | 63002 | |
| FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT | | | | |