

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

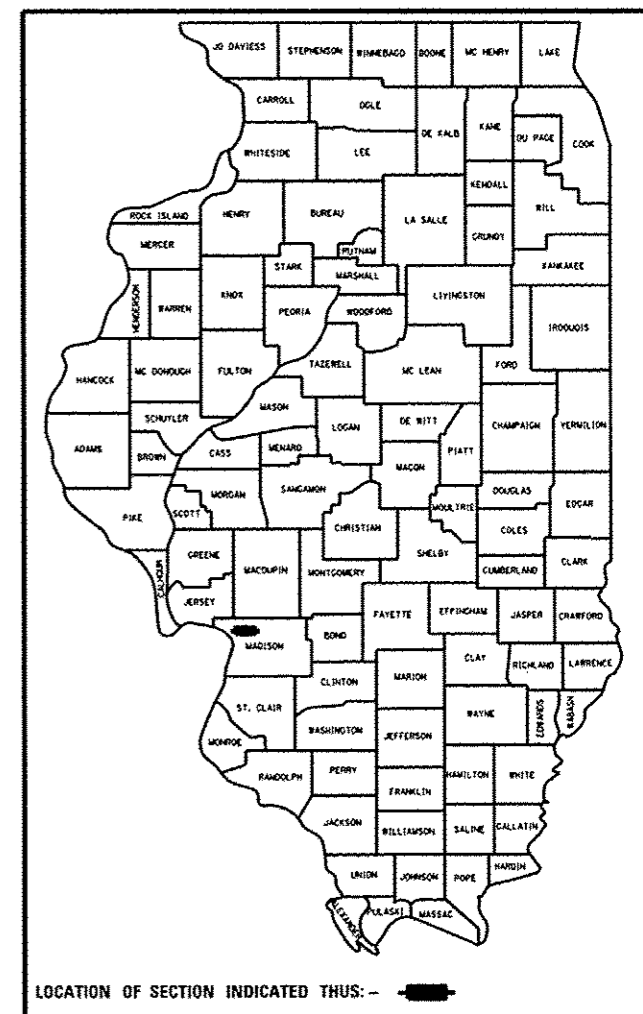
FAP 789 (IL 3)/FAP 2 (IL 143)
SECTION 202RS-4, 406-1RS-1

RESURFACING 3P
MADISON COUNTY

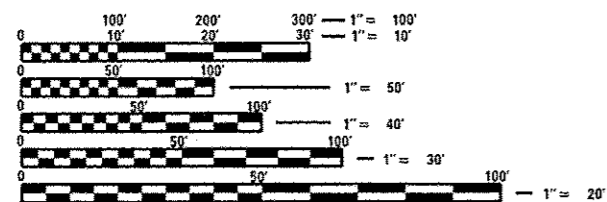
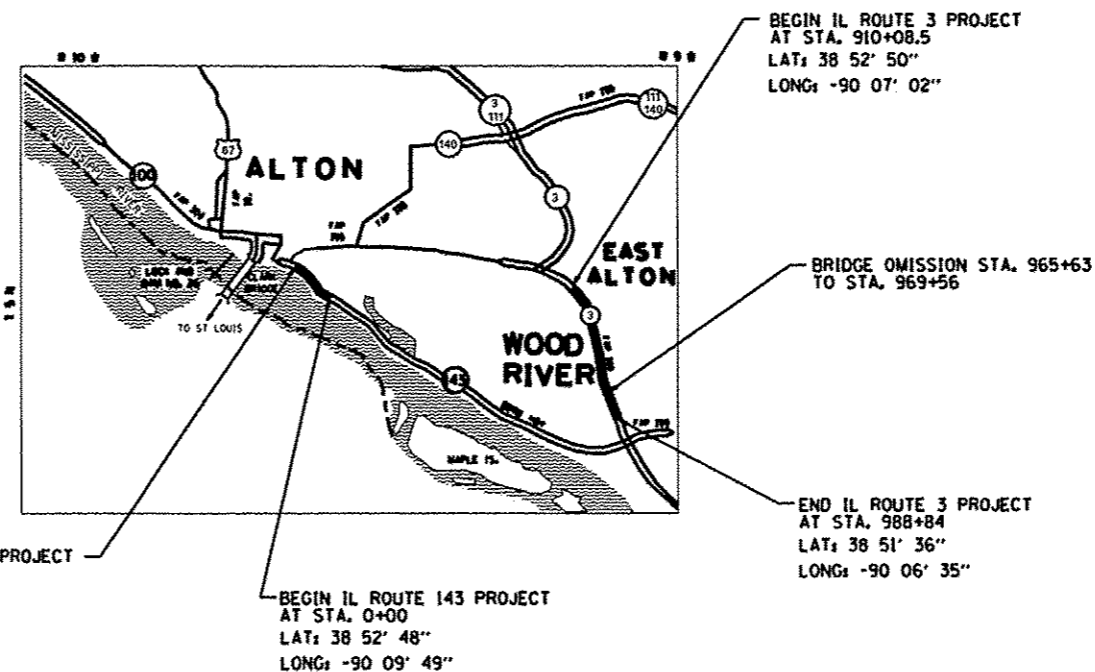
C-98-028-14

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|--------------------|----------|--------------------|-----------|
| 789/2 | 202RS-4, 406-1RS-1 | MADISON | 22 | 1 |
| | | ILLINOIS | CONTRACT NO. 76H04 | |

D-98-080-13

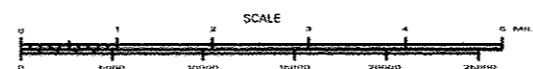


FOR INDEX OF SHEETS, SEE SHEET NO. 2



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



PROJECT ENGINEER: TIM PADGETT (618) 346-3325
PROJECT MANAGER: JOEL CUMBY (618) 466-5721

CONTRACT NO. 76H04

IL ROUTE 3/IL ROUTE 143
GROSS LENGTH = 10865 FT. = 2.058 MILE
NET LENGTH IL ROUTE 3 = 7483 FT. = 1.417 MILE
NET LENGTH IL ROUTE 143 = 2989 FT = 0.566 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED *July 18, 2014*
John Z. Kern
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

Aug 15, 2014
John D. Baranelli, P.E.
ENGINEER OF DESIGN AND ENVIRONMENT

Aug 15, 2014
Omer Osman, P.E.
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

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

GENERAL NOTES:

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES AND COMMITMENTS
- 3-4 SUMMARY OF QUANTITIES
- 5-14 TYPICAL SECTIONS
- 15-16 SCHEDULES OF QUANTITIES
- 17 LOCATION MAP
- 18 MISCELLANEOUS DETAILS
- 19-22 TRAFFIC SIGNAL PLANS

HIGHWAY STANDARDS

| | |
|-----------|-----------|
| 000001-06 | 701901-03 |
| 001006 | 780001-04 |
| 701101-04 | 781001-03 |
| 701106-02 | 886001-01 |
| 701421-06 | 886006-01 |
| 701426-06 | |
| 701601-09 | |
| 701701-09 | |

COMMITMENTS:

NONE

1. ILLINOIS STATE LAW REQUIRES A 48-HOUR NOTICE BE GIVEN TO ALL UTILITIES WITHIN THE PROJECT AREA BEFORE DIGGING. FIELD MARKING OF FACILITIES MAY BE OBTAINED BY CONTACTING J.U.L.I.E. OR FOR NON-MEMBERS, THE UTILITY COMPANY DIRECTLY. AGENCIES KNOWN TO HAVE FACILITIES WITHIN THE PROJECT AREA ARE AS FOLLOWS:

- *CITY OF ALTON
- *AMEREN ILLINOIS
- *AT&T ILLINOIS
- *WOOD RIVER BP AMOCO PIPELINE
- *CHARTER COMMUNICATIONS, INC.
- *VILLAGE OF EAST ALTON MUNICIPAL GARAGE
- *ENABLE-MISSISSIPPI RIVER TRANSMISSION LLC
- *ILLINOIS AMERICAN WATER COMPANY
- *LINDE NORTH AMERICA, INC.
- *MOGAS PIPELINE LLC
- *CITY OF WOOD RIVER

MEMBERS OF J.U.L.I.E. CALL TOLL FREE (800) 892-0123 OR 811 AND ARE INDICATED BY *. NON-J.U.L.I.E. MEMBERS MUST BE NOTIFIED INDIVIDUALLY.

2. THE CONTRACTOR AND THE ENGINEER SHALL BE AWARE THAT NO SURVEY WAS PERFORMED FOR THIS PROJECT. THE STATIONING AND TOPOGRAPHY SHOWN IN THE PLANS WAS CREATED USING MICROFILM AND FIELD MEASUREMENTS. BOTH SHALL BE CONSIDERED TO BE APPROXIMATE. THE CONTRACTOR SHALL VERIFY DIMENSIONS AND CONDITIONS IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

3. THE CONTRACTOR SHALL PROVIDE POSITIVE AND ADEQUATE DRAINAGE AT ALL TIMES. THIS MAY INVOLVE CUTTING WEEPS THROUGH THE EXISTING SHOULDER.

4. NO OVERNIGHT LANE CLOSURES WILL BE PERMITTED.

5. FLAGGERS SHALL BE REQUIRED AT ALL TIMES DURING LANE CLOSURES.

6. THE THICKNESS OF HOT-MIX ASPHALT SURFACE MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HOT-MIX ASPHALT MIXTURE IS PLACED.

7. THE TEMPORARY RAMPS USED ON ALL SIDE STREETS AND ENTRANCES SHALL NOT INTERFERE WITH THE THRU TRAFFIC LANES.

8. THE THICKNESS OF HOT-MIX ASPHALT SURFACE REMOVAL SHOWN ON THE PLANS IS THE AVERAGE THICKNESS BASED UPON CONTROLLING THICKNESS AS INDICATED. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE.

9. THE ESTIMATED QUANTITY OF 3925 TONS FOR IL ROUTE 143 AND 7127 TONS FOR IL ROUTE 3 OF CUTTINGS IS FROM THE HOT-MIX ASPHALT SURFACE REMOVAL OPERATIONS.

10. THE INTENT OF THE MILLING ON IL ROUTE 143 IS TO REMOVE ALL EXISTING HMA OVERLAYS DOWN TO THE ORIGINAL CONCRETE PAVEMENT.

11. THE CONTRACTOR SHALL ORGANIZE THE WORK IN THIS PROJECT TO AVOID A DROP OFF AT CENTERLINE GREATER THAN 2 INCHES BETWEEN ADJACENT OPEN TRAFFIC LANES

12. THE MAINLINE PAVING WILL BE PERFORMED PRIOR TO PAVING OF THE SHOULDERS. THE CONTRACTOR SHALL STAGE OPERATIONS SO THAT ALL LONGITUDINAL JOINTS COINCIDE WITH THRU LANE LINES.

13. THE USE OF VIBRATORY ROLLERS WILL NOT BE PERMITTED WITHIN THE CITY LIMITS OF EAST ALTON AND WOODRIVER. THIS DOES NOT RELIEVE THE CONTRACTOR OF DENSITY REQUIREMENTS FOR THE CONSTRUCTION OF THE HOT-MIX ASPHALT PAVEMENTS AS SPECIFIED IN SECTIONS 406 & 407 OF THE STANDARD SPECIFICATIONS. COMPACTION SHALL BE OBTAINED AS SPECIFIED IN THE SPECIAL PROVISIONS.

14. ONLY SHORT TERM PAVEMENT MARKING REMOVAL FROM THE FINAL SURFACE SHALL BE PAID FOR AS "WORK ZONE PAVEMENT MARKING REMOVAL".

15. PRIOR TO THE MILLING OPERATIONS, THE RE/RT SHALL RECORD AND DOCUMENT ALL EXISTING PAVEMENT MARKINGS AND LOCATIONS INCLUDING ALL LANE MARKINGS, CROSS-WALKS, STOP-BARS AND SYMBOLS. AFTER COMPLETION OF HOT-MIX ASPHALT OVERLAY OPERATIONS THE PROPOSED THERMOPLASTIC PAVEMENT MARKING SHALL BE PLACED AT THE EXISTING DOCUMENTED LOCATIONS.

16. ALL AREAS DISTURBED BY THE CONTRACTOR FOR ANY REASON SHALL BE PERMANENTLY SEEDS AS DIRECTED BY THE ENGINEER.

17. ALL CONSTRUCTION DEBRIS SHALL BE REMOVED FROM THE PROJECT. THE COST FOR REMOVAL SHALL BE INCLUDED IN THE VARIOUS REMOVAL PAY ITEMS.

18. THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN, AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN, AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-8740-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE TRAINEE GOALS.

19. THE CONTRACTOR SHALL ORGANIZE THE WORK IN THIS PROJECT TO AVOID A DROP OFF AT CENTERLINE GREATER THAN 2" BETWEEN ADJACENT OPEN TRAFFIC LANES.

| MIXTURE USE | SURFACE | INCIDENTAL HMA | SHOULDER <2.25" | SHOULDER >2.25" |
|----------------------|----------------|----------------|------------------|------------------|
| AC/PC | PG 64-22 | PG 64-22 | PG 64-22 | PG 64-22 |
| DESIGN AIR VOIDS | 4.0% @ Ndes=90 | 4.0% @ Ndes=90 | **2.0% @ Ndes=30 | **2.0% @ Ndes=30 |
| MIX COMPOSITION | | | NMAS 1/2" | NMAS 3/4" |
| (GRADATION MIXTURE) | IL 9.5 | IL 9.5 | | |
| FRICTION AGG | MIXTURE "D" | MIXTURE "C" | | |
| QUALITY MGMT PROGRAM | OCCA | OCCA | | |

| | | | | | | | | | | | |
|-------------|----------------------|-------------|-----------|---|--|--------------|-------------------------|--------------------------|---------------------------|---------------------------|-------|
| FILE NAME * | USER NAME * USER* | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | INDEX OF SHEETS, GENERAL NOTES, COMMITMENTS & LIST OF STANDARDS | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| FILE# | | DRAWN - JEC | REVISED - | | | 789/2 | 202RS-4, 406-IRS-1 | MADISON | 22 | 2 | |
| | PLOT SCALE * ASCALE* | CHECKED - | REVISED - | | | SCALE: _____ | SHEET NO. 1 OF 1 SHEETS | STA. _____ TO STA. _____ | FED. ROAD DIST. NO. _____ | ILLINOISIFIED AID PROJECT | T6H04 |
| | PLOT DATE * #DATE* | DATE - | REVISED - | | | | | | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | |
|----------|---|--------|----------------|-------------------|-------|
| | | | | 100% STATE | |
| | | | | ROADWAY | |
| | | | | 0005 | URBAN |
| 40600990 | TEMPORARY RAMP | SO YD | 935 | 935 | |
| 40603345 | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N90 | TON | 7853 | 7853 | |
| 40800050 | INCIDENTAL HOT-MIX ASPHALT SURFACING | TON | 115.1 | 115.1 | |
| 44000157 | HOT-MIX ASPHALT SURFACE REMOVAL, 2" | SO YD | 63630 | 63630 | |
| 44000159 | HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" | SO YD | 23365 | 23365 | |
| 44000300 | CURB REMOVAL | FOOT | 4059 | 4059 | |
| 44004250 | PAVED SHOULDER REMOVAL | SO YD | 891 | 891 | |
| 48102100 | AGGREGATE WEDGE SHOULDER, TYPE B | TON | 197 | 197 | |
| 48203029 | HOT-MIX ASPHALT SHOULDERS, 8" | SO YD | 891 | 891 | |
| 48203100 | HOT-MIX ASPHALT SHOULDERS | TON | 3357 | 3357 | |
| 66101150 | HOT-MIX ASPHALT SHOULDER CURB | FOOT | 4059 | 4059 | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 4 | 4 | |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 | |
| 70100310 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701421 | L SUM | 1 | 1 | |

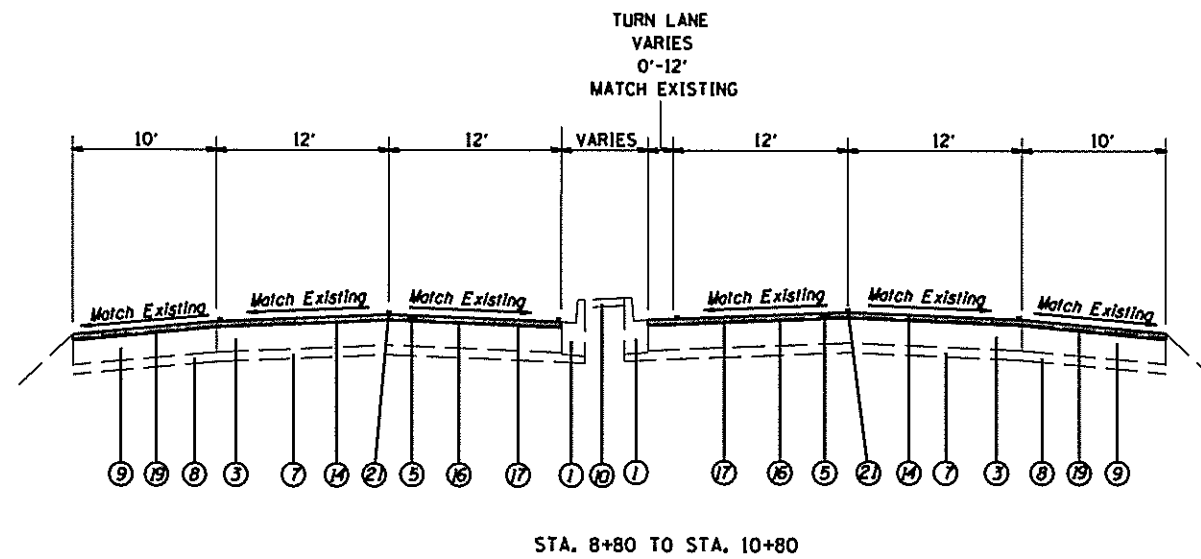
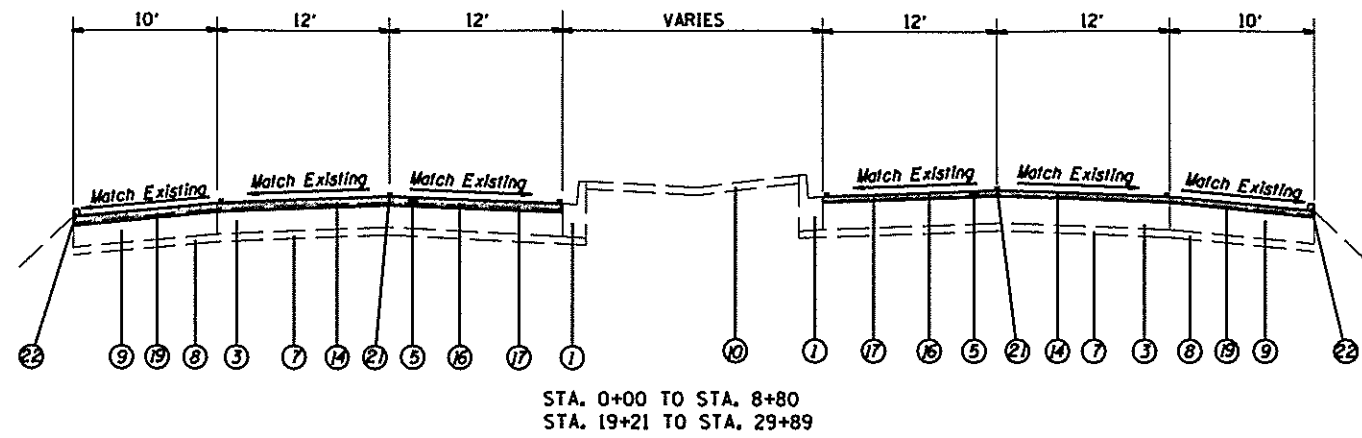
| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | |
|------------|--|-------|----------------|-------------------|-------|
| | | | | 100% STATE | |
| | | | | ROADWAY | |
| | | | | 0005 | URBAN |
| 70102635 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 | L SUM | 1 | 1 | |
| 70300100 | SHORT TERM PAVEMENT MARKING | FOOT | 8792 | 8792 | |
| 70300210 | TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS | SO FT | 562 | 562 | |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 97160 | 97160 | |
| 70300260 | TEMPORARY PAVEMENT MARKING - LINE 12" | FOOT | 1022 | 1022 | |
| 70300280 | TEMPORARY PAVEMENT MARKING - LINE 24" | FOOT | 762 | 762 | |
| 70301000 | WORK ZONE PAVEMENT MARKING REMOVAL | SO FT | 977 | 977 | |
| * 72400200 | REMOVE SIGN PANEL ASSEMBLY - TYPE B | EACH | 2 | 2 | |
| * 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SO FT | 281 | 281 | |
| * 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 46811 | 46811 | |
| * 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" | FOOT | 335 | 335 | |
| * 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 381 | 381 | |
| * 78001110 | PAINT PAVEMENT MARKING - LINE 4" | FOOT | 1769 | 1769 | |
| * 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 313 | 313 | |
| | * SPECIALTY ITEMS | | | | |

| | | | | | | | | | | | | |
|------------|-----------|-------------|----------|--|--|-----------------------|--|---------------------|-------------------------|---------------------------|--------------|--------------------|
| FILE NAME | USER NAME | DESIGNED | REVISION | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | | SUMMARY OF QUANTITIES | | F.A.P. RATE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| FILE# | USER# | DRAWN - JEC | REVISION | | | | | 789/2 | 202R5-4, 406-IRS-1 | MADISON | 22 | 3 |
| PLOT SCALE | SCALE# | CHECKED | REVISION | | | | | FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |
| PLOT DATE | DATE# | DATE | REVISION | | | | | SCALE: | SHEET NO. 1 OF 2 SHEETS | STA. | TO STA. | CONTRACT NO. T6M04 |

CONSTRUCTION
CODE
100% STATE

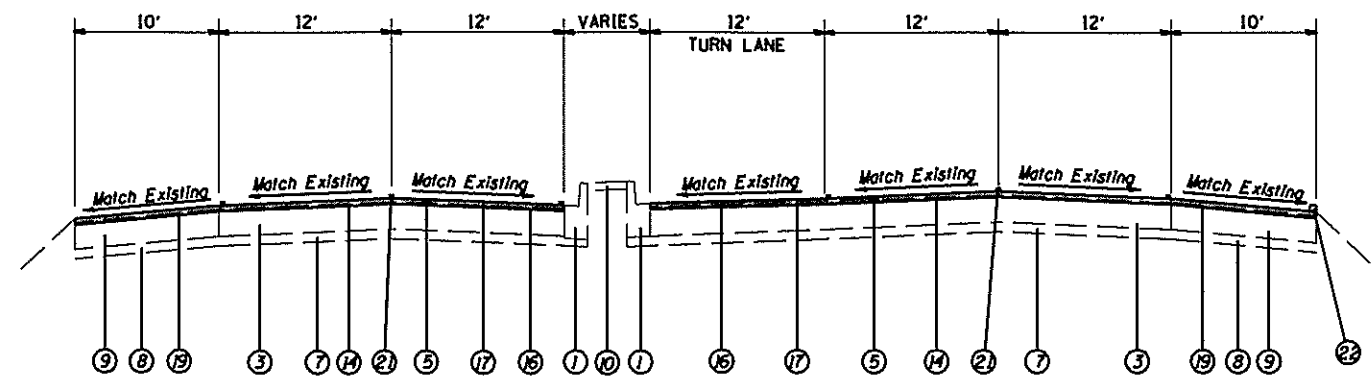
| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | ROADWAY | |
|------------|---|-------|----------------|---------|-------|
| | | | | 0005 | URBAN |
| 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 313 | 313 | |
| *80300100 | LOCATING UNDERGROUND CABLE | FOOT | 110 | 110 | |
| *88600600 | DETECTOR LOOP REPLACEMENT | FOOT | 1344 | 1344 | |
| ∅ 20076604 | TRAINEES TRAINING PROGRAM GRADUATE | HOOR | 1000 | 1000 | |
| 40600275 | BITUMINOUS MATERIALS (PRIME COAT) | POUND | 39132 | 39132 | |

∅ *SPECIALTY ITEMS
∅ 0042

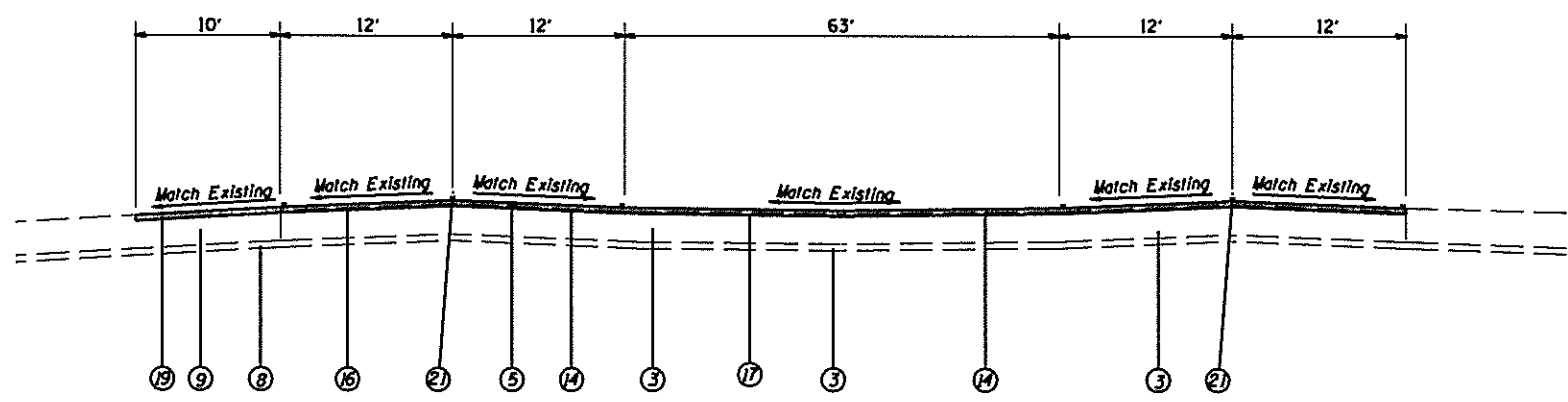


LEGEND

- | | | | |
|---|--|---|---|
| ① | EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.24 | ⑪ | EXISTING EARTH MEDIAN AND DITCH |
| ② | EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE M4.06 | ⑫ | EXISTING CONCRETE MEDIAN, TYPE SM-4.06 |
| ③ | EXISTING CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 8" | ⑬ | EXISTING CONCRETE BARRIER MEDIAN |
| ④ | EXISTING HMA PAVEMENT 5 1/2" | ⑭ | PROPOSED HMA SURFACE REMOVAL 2 1/2" |
| ⑤ | EXISTING HMA RESURFACING | ⑮ | PROPOSED HMA SURFACE REMOVAL 2" |
| ⑥ | EXISTING HMA RESURFACING 5 1/4" (4 TOTAL LIFTS) | ⑯ | PROPOSED BITUMINOUS MATERIALS (PRIME COAT) |
| ⑦ | EXISTING STABILIZED SUB-BASE, 4" | ⑰ | PROPOSED HMA SURFACE COURSE, MIX 'D', N90, 2 1/2" |
| ⑧ | EXISTING SUB-BASE GRANULAR MATERIAL, TYPE C | ⑱ | PROPOSED HMA SURFACE COURSE, MIX 'D', N90, 2 1/4" |
| ⑨ | EXISTING HMA SHOULDERS, 8" | ⑲ | PROPOSED HMA SHOULDERS 2 1/2" |
| ⑩ | EXISTING CONCRETE MEDIAN SURFACE, 4" | ⑳ | PROPOSED HMA SHOULDERS 2 1/4" |
| | | ㉑ | PROPOSED THERMOPLASTIC PAVEMENT MARKING |
| | | ㉒ | PROPOSED HMA CURB |



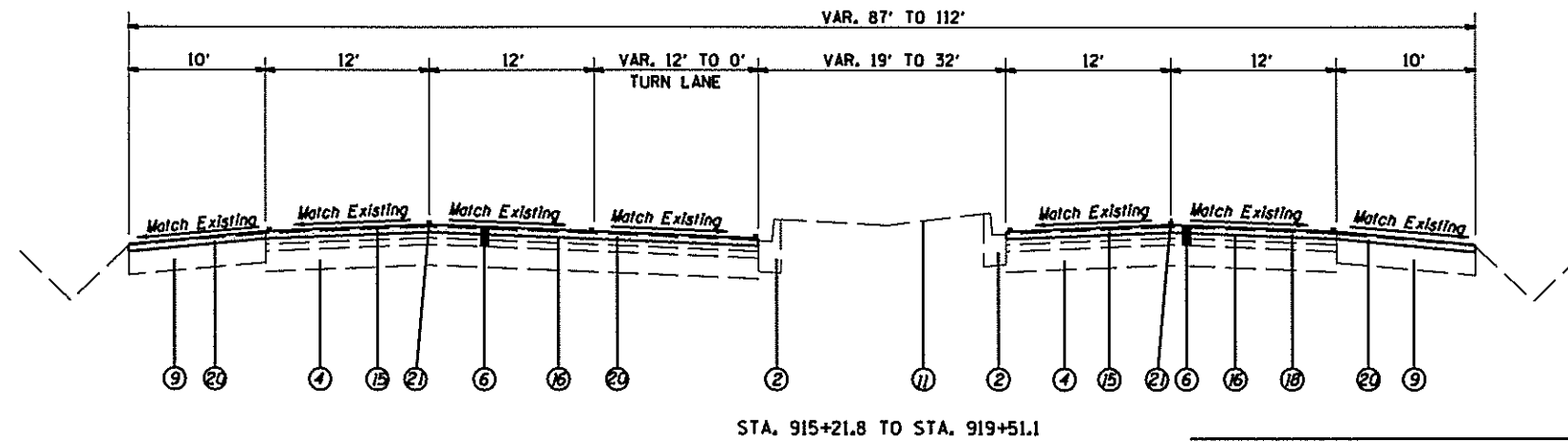
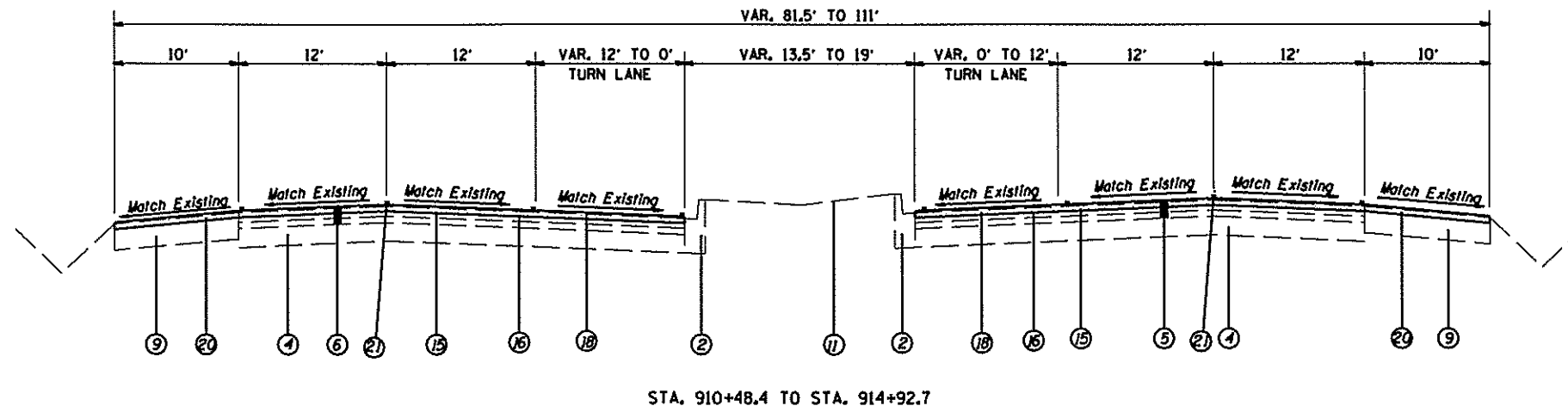
STA. 10+80 TO STA. 13+32



STA. 13+32 TO STA. 14+52

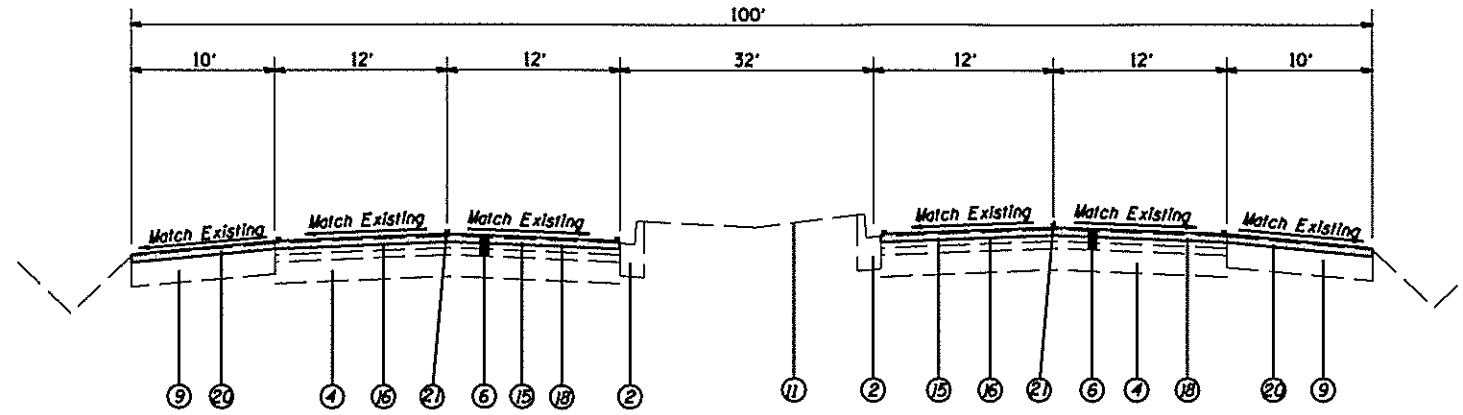
LEGEND

- ① EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.24
- ② EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE M4.06
- ③ EXISTING CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- ④ EXISTING HMA PAVEMENT 5 1/2"
- ⑤ EXISTING HMA RESURFACING
- ⑥ EXISTING HMA RESURFACING 5 1/4" (4 TOTAL LIFTS)
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE C
- ⑨ EXISTING HMA SHOULDERS, 8"
- ⑩ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑪ EXISTING EARTH MEDIAN AND DITCH
- ⑫ EXISTING CONCRETE MEDIAN, TYPE SM-4.06
- ⑬ EXISTING CONCRETE BARRIER MEDIAN
- ⑭ PROPOSED HMA SURFACE REMOVAL 2 1/2"
- ⑮ PROPOSED HMA SURFACE REMOVAL 2"
- ⑯ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ⑰ PROPOSED HMA SURFACE COURSE, MIX "D", N90, 2 1/2"
- ⑱ PROPOSED HMA SURFACE COURSE, MIX "D", N90, 2 1/4"
- ⑲ PROPOSED HMA SHOULDERS 2 1/2"
- ⑳ PROPOSED HMA SHOULDERS 2 1/4"
- ㉑ PROPOSED THERMOPLASTIC PAVEMENT MARKING
- ㉒ PROPOSED HMA CURB

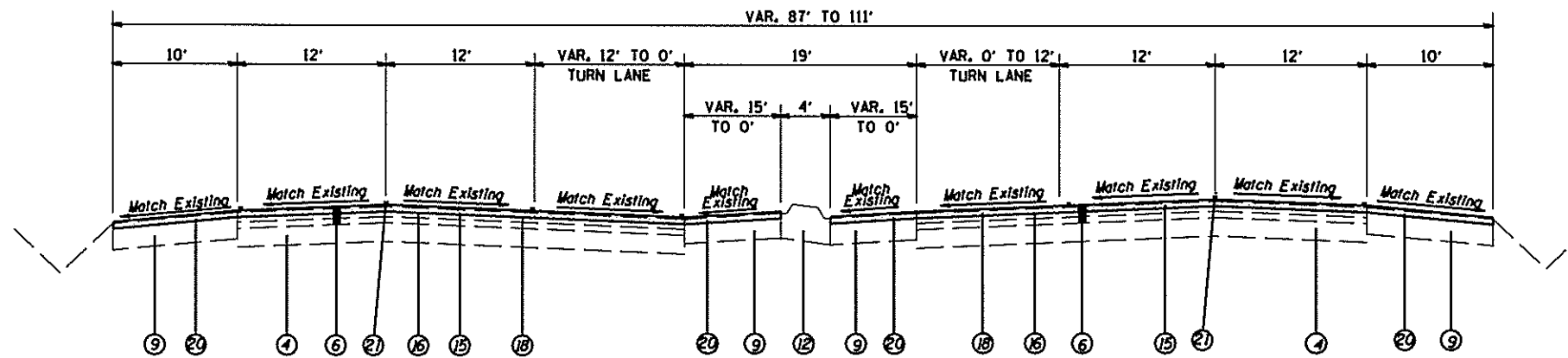


LEGEND

- ① EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.24
- ② EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE M4.06
- ③ EXISTING CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- ④ EXISTING HMA PAVEMENT 5 1/2"
- ⑤ EXISTING HMA RESURFACING
- ⑥ EXISTING HMA RESURFACING 5 1/4" (4 TOTAL LIFTS)
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE C
- ⑨ EXISTING HMA SHOULDERS, 8"
- ⑩ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑪ EXISTING EARTH MEDIAN AND DITCH
- ⑫ EXISTING CONCRETE MEDIAN, TYPE SM-4.06
- ⑬ EXISTING CONCRETE BARRIER MEDIAN
- ⑭ PROPOSED HMA SURFACE REMOVAL 2 1/2"
- ⑮ PROPOSED HMA SURFACE REMOVAL 2"
- ⑯ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ⑰ PROPOSED HMA SURFACE COURSE, MIX "D", N90, 2 1/2"
- ⑱ PROPOSED HMA SURFACE COURSE, MIX "D", N90, 2 1/4"
- ⑲ PROPOSED HMA SHOULDERS 2 1/2"
- ⑳ PROPOSED HMA SHOULDERS 2 1/4"
- ㉑ PROPOSED THERMOPLASTIC PAVEMENT MARKING
- ㉒ PROPOSED HMA CURB



STA. 919+51.1 TO STA. 923+63.58

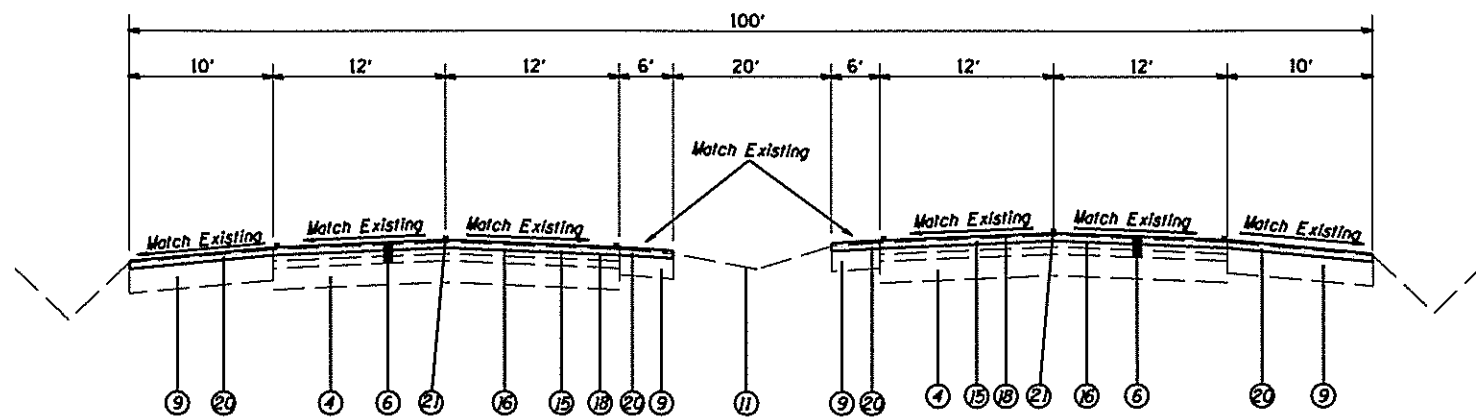


STA. 924+45.98 TO STA. 928+42.6

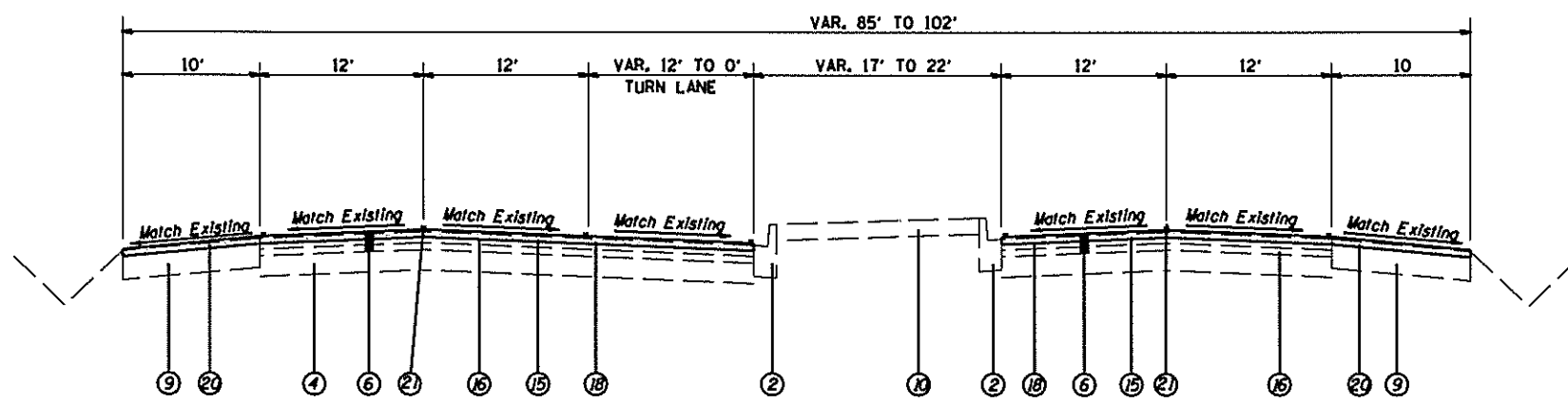
LEGEND

- | | | | |
|---|--|---|---|
| ① | EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.24 | ⑪ | EXISTING EARTH MEDIAN AND DITCH |
| ② | EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE M4.06 | ⑫ | EXISTING CONCRETE MEDIAN, TYPE SM-4.06 |
| ③ | EXISTING CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 8" | ⑬ | EXISTING CONCRETE BARRIER MEDIAN |
| ④ | EXISTING HMA PAVEMENT 5 1/2" | ⑭ | PROPOSED HMA SURFACE REMOVAL 2 1/2" |
| ⑤ | EXISTING HMA RESURFACING | ⑮ | PROPOSED HMA SURFACE REMOVAL 2" |
| ⑥ | EXISTING HMA RESURFACING 5 1/4" (4 TOTAL LIFTS) | ⑯ | PROPOSED BITUMINOUS MATERIALS (PRIME COAT) |
| ⑦ | EXISTING STABILIZED SUB-BASE, 4" | ⑰ | PROPOSED HMA SURFACE COURSE, MIX "D", N90, 2 1/2" |
| ⑧ | EXISTING SUB-BASE GRANULAR MATERIAL, TYPE C | ⑱ | PROPOSED HMA SURFACE COURSE, MIX "D", N90, 2 1/4" |
| ⑨ | EXISTING HMA SHOULDERS, 8" | ⑲ | PROPOSED HMA SHOULDERS 2 1/2" |
| ⑩ | EXISTING CONCRETE MEDIAN SURFACE, 4" | ⑳ | PROPOSED HMA SHOULDERS 2 1/4" |
| | | ㉑ | PROPOSED THERMOPLASTIC PAVEMENT MARKING |
| | | ㉒ | PROPOSED HMA CURB |

| | | | | | | | | | | | |
|-----------------------|--------------------|------------|-----------|---|------------------------------|--|--------------------|--------------------|--------------|-----------|--|
| FILE NAME * | USER NAME * #USER* | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | IL 3 TYPICAL SECTIONS | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| *FILE# | | DRAWN - | REVISED - | | | 789/2 | 202RS-4, 406-IRS-1 | MADISON | 22 | 9 | |
| PLLOT SCALE * #SCALE* | | CHECKED - | REVISED - | | | SCALE: _____ SHEET NO. 5 OF 10 SHEETS STA. _____ TO STA. _____ | | CONTRACT NO. 76H04 | | | |
| PLLOT DATE * #DATE* | | DATE - | REVISED - | | | FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | | |



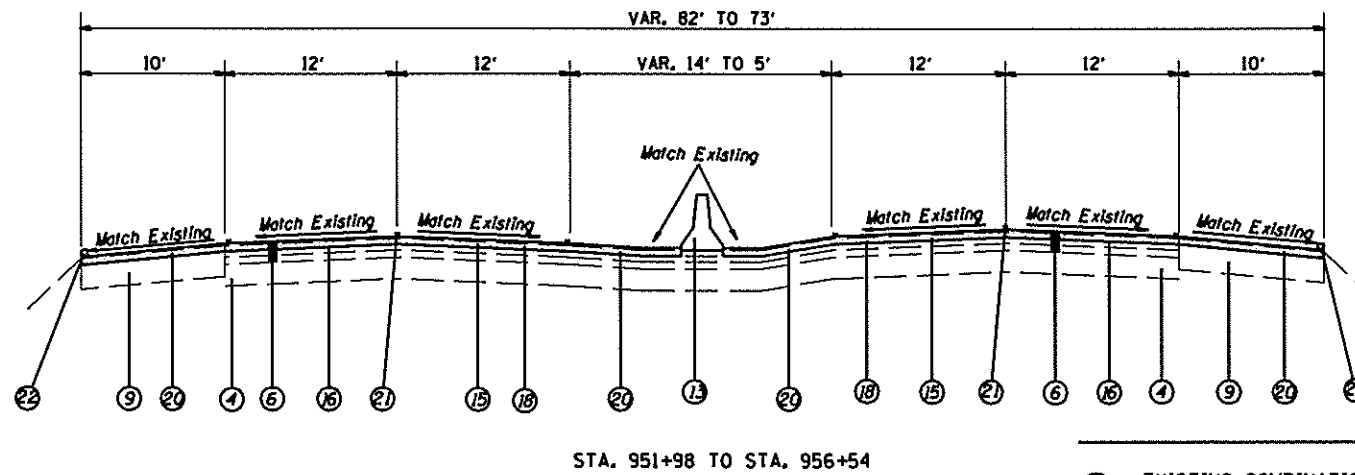
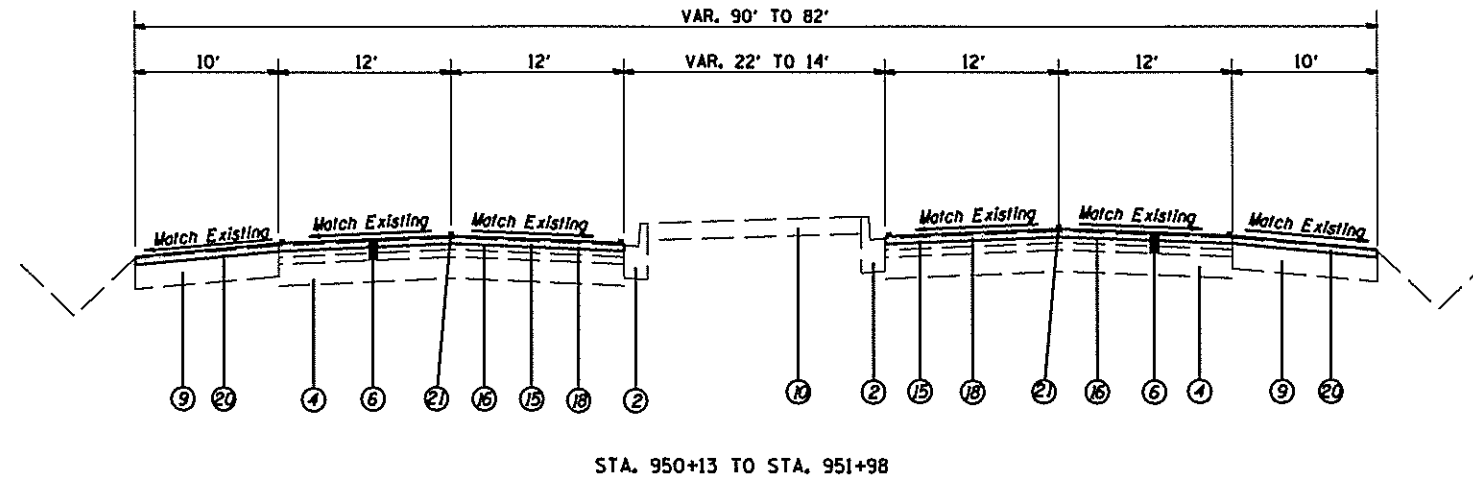
STA. 929+44.1 TO STA. 945+25.5



STA. 945+79.9 TO STA. 950+13

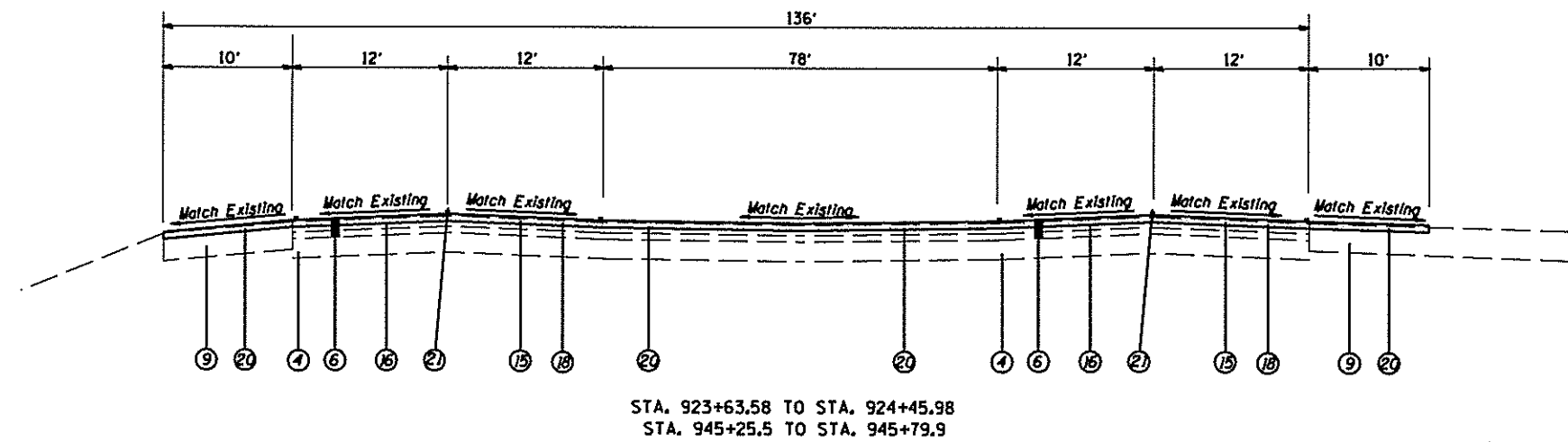
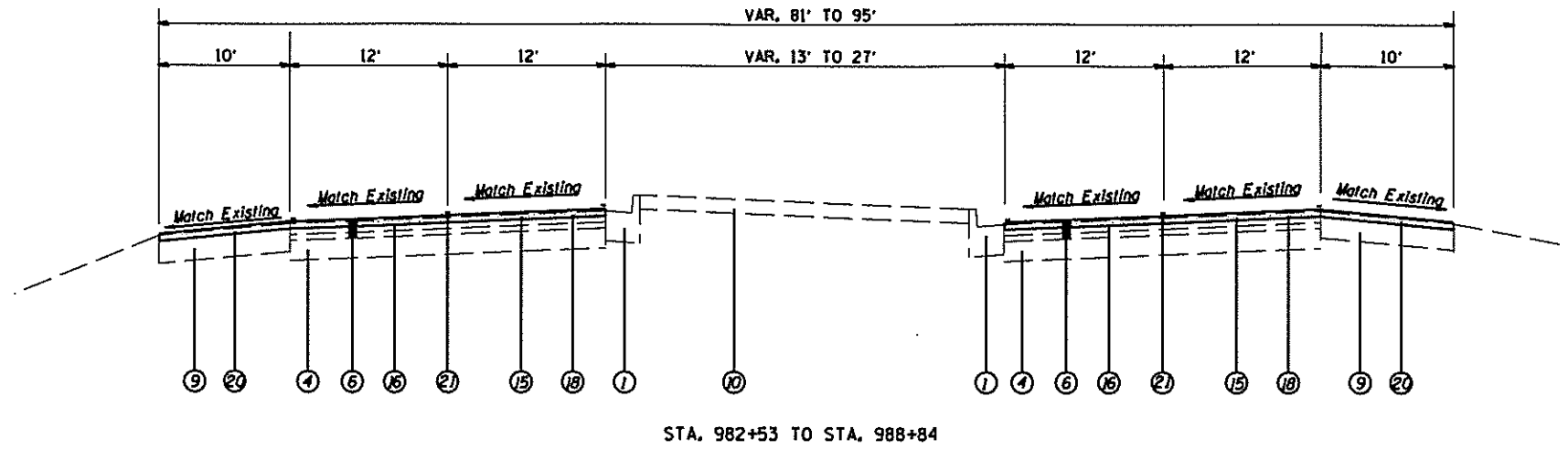
LEGEND

- ① EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.24
- ② EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE M4.06
- ③ EXISTING CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 8"
- ④ EXISTING HMA PAVEMENT 5 1/2"
- ⑤ EXISTING HMA RESURFACING
- ⑥ EXISTING HMA RESURFACING 5 1/4" (4 TOTAL LIFTS)
- ⑦ EXISTING STABILIZED SUB-BASE, 4"
- ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE C
- ⑨ EXISTING HMA SHOULDERS, 8"
- ⑩ EXISTING CONCRETE MEDIAN SURFACE, 4"
- ⑪ EXISTING EARTH MEDIAN AND DITCH
- ⑫ EXISTING CONCRETE MEDIAN, TYPE SM-4.06
- ⑬ EXISTING CONCRETE BARRIER MEDIAN
- ⑭ PROPOSED HMA SURFACE REMOVAL 2 1/2"
- ⑮ PROPOSED HMA SURFACE REMOVAL 2"
- ⑯ PROPOSED BITUMINOUS MATERIALS (PRIME COAT)
- ⑰ PROPOSED HMA SURFACE COURSE, MIX "D", N90, 2 1/2"
- ⑱ PROPOSED HMA SURFACE COURSE, MIX "D", N90, 2 1/4"
- ⑲ PROPOSED HMA SHOULDERS 2 1/2"
- ⑳ PROPOSED HMA SHOULDERS 2 1/4"
- ㉑ PROPOSED THERMOPLASTIC PAVEMENT MARKING
- ㉒ PROPOSED HMA CURB



LEGEND

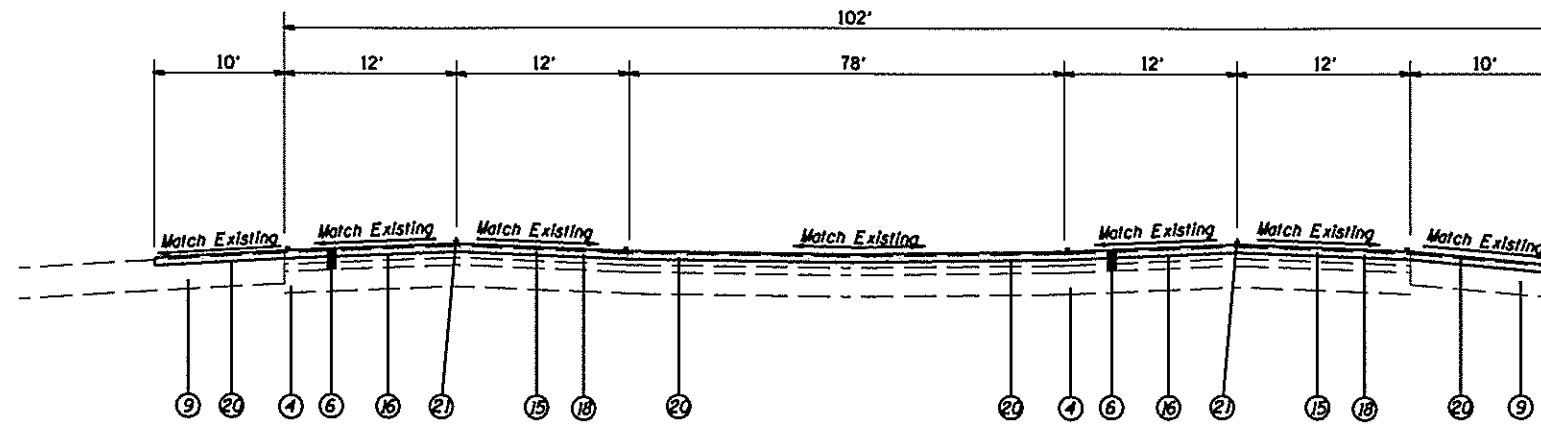
- | | |
|--|---|
| ① EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.24 | ⑪ EXISTING EARTH MEDIAN AND DITCH |
| ② EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE M4.06 | ⑫ EXISTING CONCRETE MEDIAN, TYPE SM-4.06 |
| ③ EXISTING CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 8" | ⑬ EXISTING CONCRETE BARRIER MEDIAN |
| ④ EXISTING HMA PAVEMENT 5 1/2" | ⑭ PROPOSED HMA SURFACE REMOVAL 2 1/2" |
| ⑤ EXISTING HMA RESURFACING | ⑮ PROPOSED HMA SURFACE REMOVAL 2" |
| ⑥ EXISTING HMA RESURFACING 5 1/4" (4 TOTAL LIFTS) | ⑯ PROPOSED BITUMINOUS MATERIALS (PRIME COAT) |
| ⑦ EXISTING STABILIZED SUB-BASE, 4" | ⑰ PROPOSED HMA SURFACE COURSE, MIX "D", N90, 2 1/2" |
| ⑧ EXISTING SUB-BASE GRANULAR MATERIAL, TYPE C | ⑱ PROPOSED HMA SURFACE COURSE, MIX "D", N90, 2 1/4" |
| ⑨ EXISTING HMA SHOULDERS, 8" | ⑲ PROPOSED HMA SHOULDERS 2 1/2" |
| ⑩ EXISTING CONCRETE MEDIAN SURFACE, 4" | ⑳ PROPOSED HMA SHOULDERS 2 1/4" |
| | ㉑ PROPOSED THERMOPLASTIC PAVEMENT MARKING |
| | ㉒ PROPOSED HMA CURB |



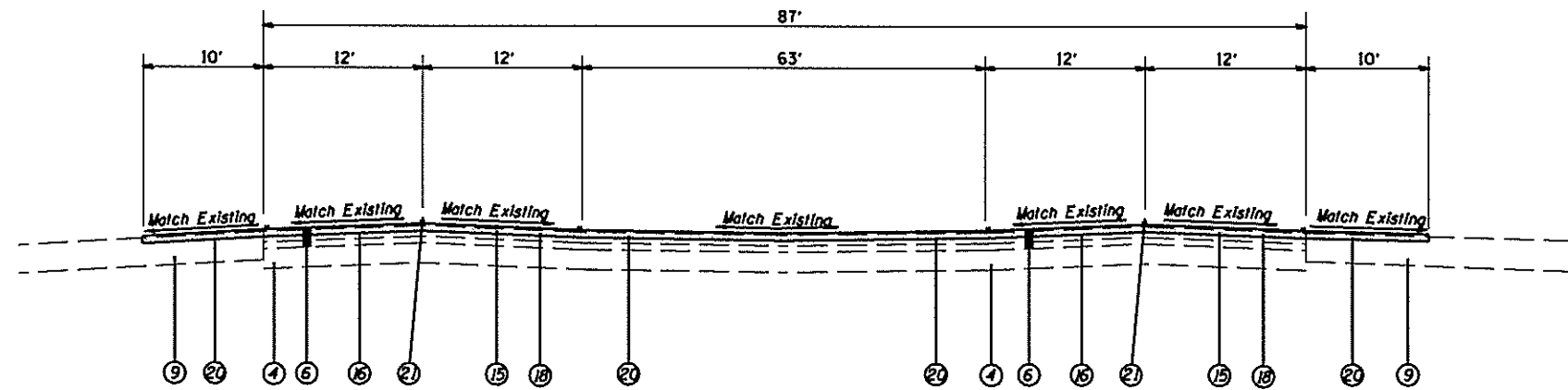
LEGEND

- | | | | |
|---|--|---|---|
| ① | EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.24 | ⑪ | EXISTING EARTH MEDIAN AND DITCH |
| ② | EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE M4.06 | ⑫ | EXISTING CONCRETE MEDIAN, TYPE SM-4.06 |
| ③ | EXISTING CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 8" | ⑬ | EXISTING CONCRETE BARRIER MEDIAN |
| ④ | EXISTING HMA PAVEMENT 5 1/2" | ⑭ | PROPOSED HMA SURFACE REMOVAL 2 1/2" |
| ⑤ | EXISTING HMA RESURFACING | ⑮ | PROPOSED HMA SURFACE REMOVAL 2" |
| ⑥ | EXISTING HMA RESURFACING 5 1/4" (4 TOTAL LIFTS) | ⑯ | PROPOSED BITUMINOUS MATERIALS (PRIME COAT) |
| ⑦ | EXISTING STABILIZED SUB-BASE, 4" | ⑰ | PROPOSED HMA SURFACE COURSE, MIX "D", N90, 2 1/2" |
| ⑧ | EXISTING SUB-BASE GRANULAR MATERIAL, TYPE C | ⑱ | PROPOSED HMA SURFACE COURSE, MIX "D", N90, 2 1/4" |
| ⑨ | EXISTING HMA SHOULDERS, 8" | ⑲ | PROPOSED HMA SHOULDERS 2 1/2" |
| ⑩ | EXISTING CONCRETE MEDIAN SURFACE, 4" | ⑳ | PROPOSED HMA SHOULDERS 2 1/4" |
| | | ㉑ | PROPOSED THERMOPLASTIC PAVEMENT MARKING |
| | | ㉒ | PROPOSED HMA CURB |

| | | | | | | | | | | | |
|-------------|--------------------|------------|-----------|---|------------------------------|--|--------------------|--------------------|--------------|-----------|--|
| FILE NAME * | USER NAME * #USER* | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | IL 3 TYPICAL SECTIONS | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| #FILE# | | DRAWN - | REVISED - | | | 789/2 | 202RS-4, 406-IRS-1 | MADISON | 22 | 13 | |
| | | CHECKED - | REVISED - | | | SCALE: _____ SHEET NO. 9 OF 10 SHEETS STA. _____ TO STA. _____ | | CONTRACT NO. T6H04 | | | |
| | | DATE - | REVISED - | | | FED. ROAD DIST. NO., ILLINOIS FED. AID PROJECT | | | | | |



STA. 928+42.6 TO STA. 929+44.1



STA. 910+08.5 TO STA. 910+48.4
STA. 914+92.7 TO STA. 915+21.8

LEGEND

- | | | | |
|---|--|---|---|
| ① | EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-9.24 | ⑪ | EXISTING EARTH MEDIAN AND DITCH |
| ② | EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE M4.06 | ⑫ | EXISTING CONCRETE MEDIAN, TYPE SM-4.06 |
| ③ | EXISTING CONTINUOUSLY REINFORCED PORTLAND CEMENT CONCRETE PAVEMENT, 8" | ⑬ | EXISTING CONCRETE BARRIER MEDIAN |
| ④ | EXISTING HMA PAVEMENT 5 1/2" | ⑭ | PROPOSED HMA SURFACE REMOVAL 2 1/2" |
| ⑤ | EXISTING HMA RESURFACING | ⑮ | PROPOSED HMA SURFACE REMOVAL 2" |
| ⑥ | EXISTING HMA RESURFACING 5 1/4" (4 TOTAL LIFTS) | ⑯ | PROPOSED BITUMINOUS MATERIALS (PRIME COAT) |
| ⑦ | EXISTING STABILIZED SUB-BASE, 4" | ⑰ | PROPOSED HMA SURFACE COURSE, MIX "D", N90, 2 1/2" |
| ⑧ | EXISTING SUB-BASE GRANULAR MATERIAL, TYPE C | ⑱ | PROPOSED HMA SURFACE COURSE, MIX "D", N90, 2 1/4" |
| ⑨ | EXISTING HMA SHOULDERS, 8" | ⑲ | PROPOSED HMA SHOULDERS 2 1/2" |
| ⑩ | EXISTING CONCRETE MEDIAN SURFACE, 4" | ⑳ | PROPOSED HMA SHOULDERS 2 1/4" |
| | | ㉑ | PROPOSED THERMOPLASTIC PAVEMENT MARKING |
| | | ㉒ | PROPOSED HMA CURB |

TEMPORARY RAMPS

| IL ROUTE 3 | | |
|------------------|----|-------------------|
| STATION | | TEMP RAMP (SO YD) |
| 910+08 TO 910+83 | RT | 80.9 |
| 910+08 TO 910+68 | LT | 69.7 |
| 914+78 TO 915+78 | RT | 74.1 |
| 914+88 TO 915+63 | LT | 55.6 |
| 923+13 TO 924+33 | RT | 88.9 |
| 928+18 TO 929+93 | LT | 129.7 |
| 944+68 TO 946+03 | RT | 100.0 |
| 965+63 | LT | 26.7 |
| 965+63 | RT | 26.7 |
| 969+56 | LT | 26.7 |
| 969+56 | RT | 26.7 |
| 988+84 | LT | 25.2 |
| 988+84 | RT | 25.2 |
| TOTAL | | 756 SO YD |
| IL ROUTE 143 | | |
| STATION | | TEMP RAMP (SO YD) |
| 0+00 | RT | 25.2 |
| 0+00 | LT | 25.2 |
| 13+00 TO 15+52 | RT | 16.1 |
| 13+53 TO 14+35 | LT | 60.7 |
| 29+89 | RT | 25.9 |
| 29+89 | LT | 25.9 |
| TOTAL | | 179 SO YD |
| JOB TOTAL | | 935 SO YD |

HMA SHOULDER REPLACEMENT

| IL ROUTE 3 | | | |
|------------------|----|------------------------|------------------|
| STATION | | PAVED SHOULDER REMOVAL | HMA SHOULDER, 8" |
| 911+26 TO 914+28 | RT | 335.6 | 335.6 |
| 927+08 TO 928+08 | RT | 111.1 | 111.1 |
| 946+03 TO 946+53 | RT | 55.6 | 55.6 |
| 948+08 TO 949+08 | RT | 111.1 | 111.1 |
| 942+33 TO 944+08 | LT | 194.4 | 194.4 |
| 953+08 TO 953+83 | LT | 83.3 | 83.3 |
| TOTAL | | 891 SO YD | 891 SO YD |

NOTE: SHOULDER DEPTH IS ESTIMATED AT 8"

PAVING SCHEDULES

| IL ROUTE 3 | | | | | | | |
|-----------------|----|---------|------------------------------|------------------------|--------------------------------------|----------------------|---------------------------|
| STATION | TO | STATION | HMA SURFACE REMOVAL - 2" | BIT MAT'L (PRIME COAT) | HMA SURF COURSE MIX "D" N90 - 2 1/4" | HMA SHOULDER 2 1/4" | AGG WEDGE SHOULDER TYPE B |
| 910+08 | TO | 914+93 | 4298 | 1927 | 427.4 | 114.1 | 10.1 |
| 914+93 | TO | 923+63 | 7697.5 | 3466 | 675.7 | 294.3 | 30.1 |
| 923+63 | TO | 928+48 | 5052 | 2272 | 427.6 | 209.0 | 10.9 |
| 928+48 | TO | 945+78 | 14632 | 6587 | 1227.2 | 616.5 | 77.1 |
| 945+78 | TO | 965+63 | 16365.5 | 7392 | 1392.3 | 669.9 | 24.2 |
| 965+63 | TO | 966+23 | 67 | | | 8.4 | |
| BRIDGE OMISSION | | | | | | | |
| 968+98 | TO | 969+56 | 64 | | | 8.1 | 0.7 |
| 969+56 | TO | 988+84 | 15454 | 6975 | 1303.8 | 651.7 | 23.9 |
| TOTALS | | | 63,630 SO YD | 28619 POUNDS | 5454 TON | 2572 TON | 177 TON |
| IL ROUTE 143 | | | | | | | |
| STATION | TO | STATION | HMA SURFACE REMOVAL - 2 1/2" | BIT MAT'L (PRIME COAT) | HMA SURF COURSE MIX "D" N90 - 2 1/2" | HMA SHOULDERS 2 1/2" | AGG WEDGE SHOULDER TYPE B |
| 0+00 | TO | 13+53 | 10675.1 | 4803 | 1081.8 | 371.3 | 20 |
| 13+53 | TO | 14+35 | 601.3 | 273 | 84.2 | | |
| 14+35 | TO | 29+89 | 12088.6 | 5436 | 1233 | 413.7 | |
| TOTALS | | | 23365 SO YD | 10513 POUNDS | 2399 TON | 785 TON | 20 TON |
| JOB TOTAL | | | | 39132 POUNDS | 7853 TON | 3357 TON | 197 TON |

HMA CURB REPAIR

| IL ROUTE 3 | | | | |
|------------------|----|------------------|-------------------|--|
| STATION | | HMA CURB REMOVAL | HMA SHOULDER CURB | |
| 955+68 TO 965+63 | RT | 995 | 995 | |
| 956+23 TO 965+63 | LT | 940 | 940 | |
| 969+56 TO 979+03 | RT | 947 | 947 | |
| 969+56 TO 979+58 | LT | 1002 | 1002 | |
| TOTAL | | 3884 FOOT | 3884 FOOT | |
| IL ROUTE 143 | | | | |
| STATION | | HMA CURB REMOVAL | HMA SHOULDER CURB | |
| 6+62 TO 6+87 | RT | 25 | 25 | |
| 11+72 TO 11+97 | RT | 25 | 25 | |
| 12+90 TO 13+10 | RT | 20 | 20 | |
| 15+34 TO 15+69 | RT | 35 | 35 | |
| 17+45 TO 17+55 | RT | 10 | 10 | |
| 19+11 TO 19+31 | LT | 20 | 20 | |
| 27+20 TO 27+60 | LT | 40 | 40 | |
| TOTAL | | 175 FOOT | 175 FOOT | |
| JOB TOTAL | | 4059 FOOT | 4059 FOOT | |

INCIDENTAL HMA SURFACE

| IL ROUTE 3 | | |
|------------------|----|------------------------|
| STATION | | INCIDENTAL HMA SURFACE |
| 910+08 TO 910+83 | RT | 10.5 |
| 910+08 TO 910+68 | LT | 8.4 |
| 914+78 TO 915+78 | RT | 14.0 |
| 914+88 TO 915+63 | LT | 10.5 |
| 923+13 TO 924+33 | RT | 16.8 |
| 928+18 TO 929+93 | LT | 24.5 |
| 944+68 TO 946+03 | RT | 18.9 |
| TOTAL | | 103.6 TON |
| IL ROUTE 143 | | |
| STATION | | INCIDENTAL HMA SURFACE |
| 13+53 TO 14+35 | RT | 11.5 |
| TOTAL | | 11.5 TON |
| JOB TOTAL | | 115.1 TON |

REMOVE SIGN PANEL ASSEMBLY, TYPE B

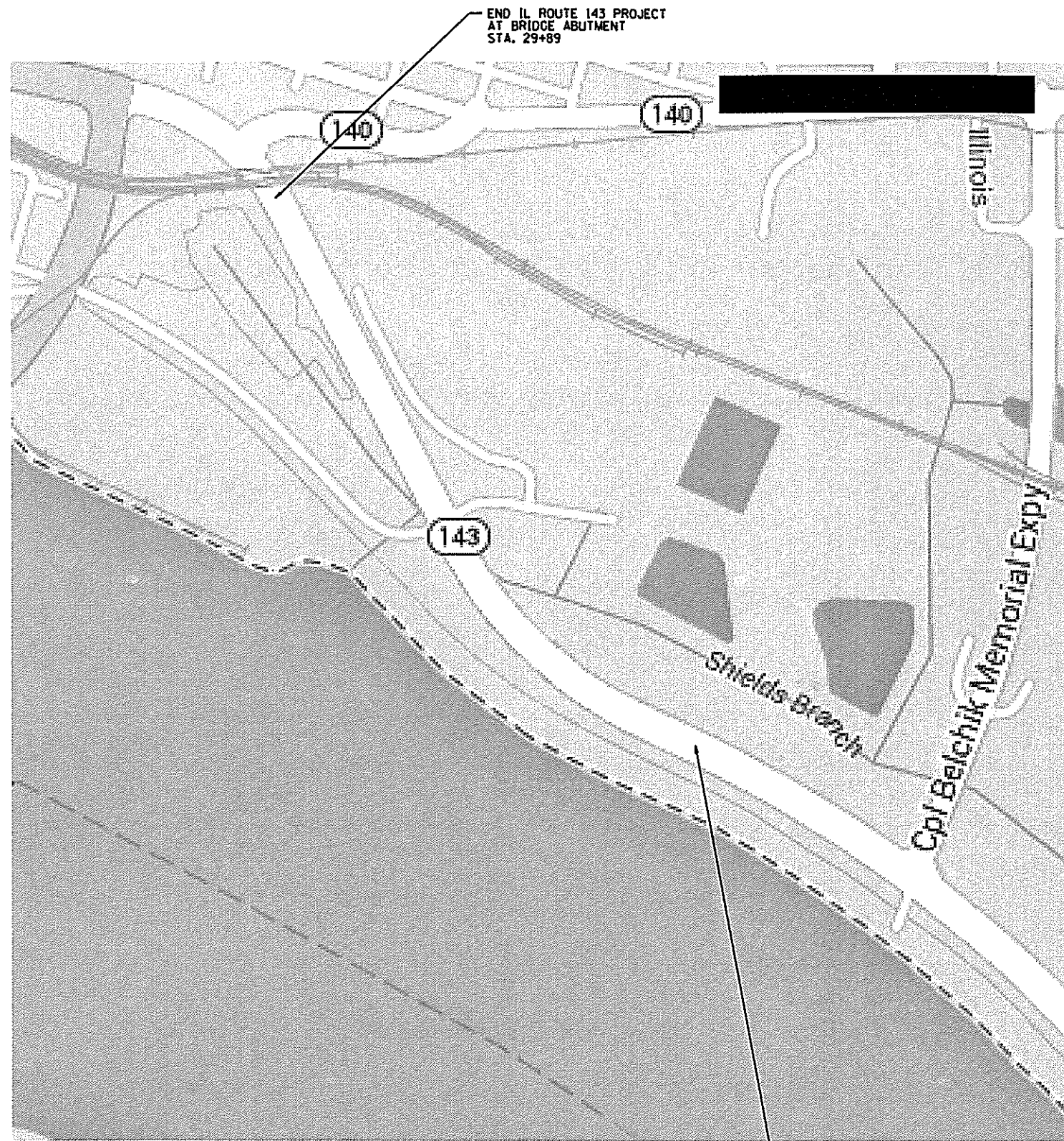
| IL ROUTE 3 | |
|-----------------------------------|------|
| AT MCCASLAND AVE. | EACH |
| NB PED. CROSSING SIGN | 1 |
| *SB PED. CROSSING AND ARROW SIGNS | 1 |
| JOB TOTAL | 2 |

* POST AND COUNTY MILE SIGN TO BE LEFT IN PLACE

PAVEMENT MARKING SCHEDULE

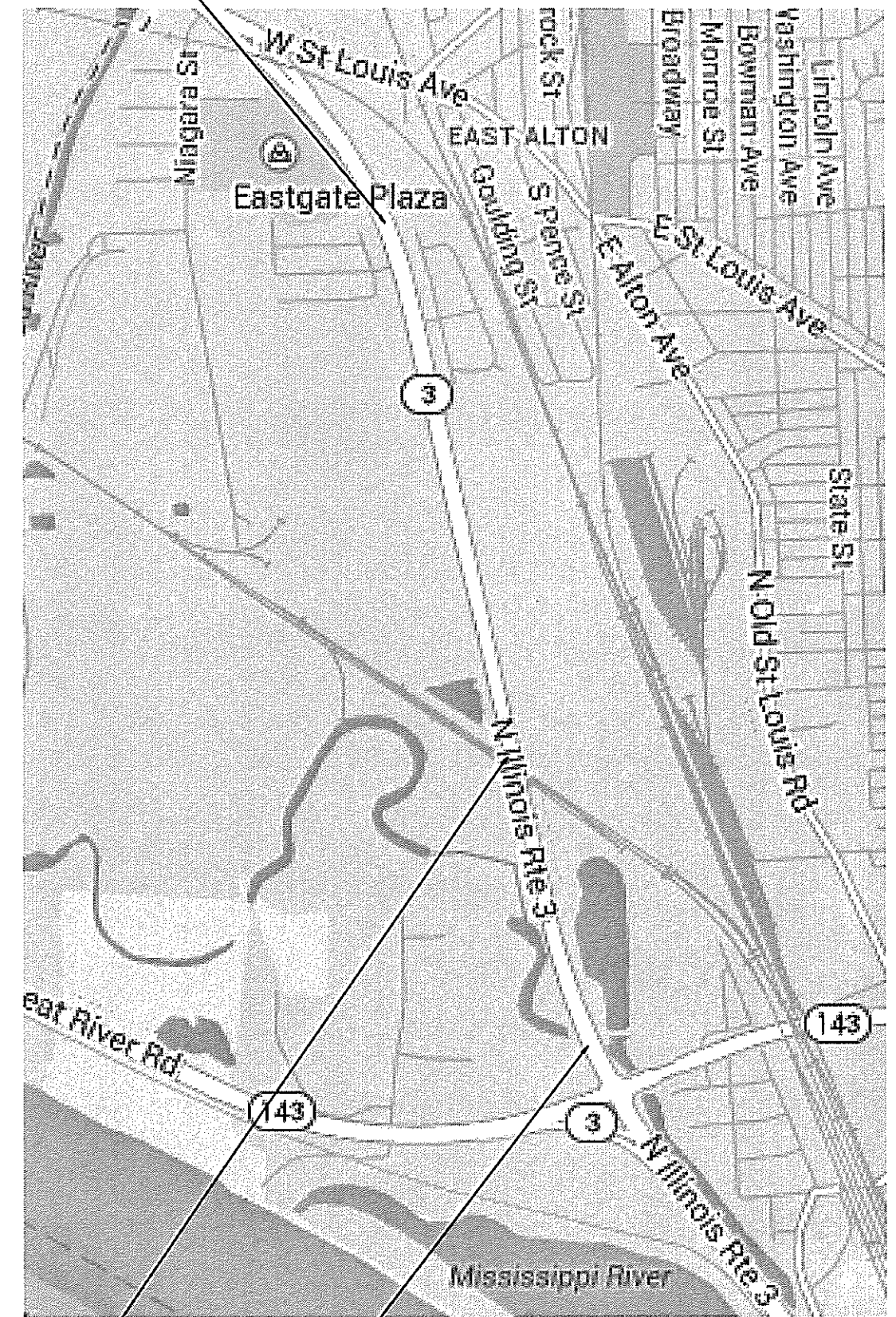
| IL ROUTE 3 | | | | | | | | | | | | | | | |
|-----------------|----|---------|-------------------------------------|-----------|-----------|-----------------------------------|----------|-----------------------------------|-----------|--|-----------|-----------------------------|-----------|--|--------|
| | | | THERMOPLASTIC PAVEMENT MARKING - 4" | | | THERMOPLASTIC PVM'T MARKING - 12" | | THERMOPLASTIC PVM'T MARKING - 24" | | THERMOPLASTIC PVM'T MARKING LETTER & SYMBOLS | | PAINT PAVEMENT MARKING - 4" | | | |
| | | | WHITE | | | YELLOW | | YELLOW | | WHITE | | WHITE | | | YELLOW |
| STATION | TO | STATION | EDGE LINE | SKIP DASH | TURN LINE | EDGE LINE | DIAGONAL | STOP BARS | STOP BARS | EDGE LINE | SKIP DASH | TURN LINE | EDGE LINE | | |
| 910+08 | TO | 910+51 | | 21.5 | | | | 58 | | | | | | | |
| 910+51 | TO | 910+88 | 37 | 18.5 | 37 | 74 | | | 15.6 | | | | | | |
| 910+88 | TO | 912+64 | 352 | 88 | 176 | 352 | | | 15.6 | | | | | | |
| 912+64 | TO | 913+51 | 174 | 43.5 | | 174 | | | 15.6 | | | | | | |
| 913+51 | TO | 914+78 | 254 | 63.5 | 127 | 254 | | | 15.6 | | | | | | |
| 914+78 | TO | 915+63 | | | | | | 114 | | | | | | | |
| 915+63 | TO | 918+88 | 650 | 162.5 | 325 | 650 | | | 46.8 | | | | | | |
| 918+88 | TO | 923+53 | 930 | 232.5 | | 930 | | | | | | | | | |
| 923+53 | TO | 924+43 | | 45 | | 90 | | 29 | | | | | | | |
| 924+43 | TO | 925+38 | 190 | 47.5 | 95 | 190 | 97 | | 31.2 | | | | | | |
| 925+38 | TO | 927+30 | 384 | 96 | | 384 | 89 | | | | | | | | |
| 927+30 | TO | 928+47 | 234 | 58.5 | 117 | 234 | 149 | | 31.2 | | | | | | |
| 928+47 | TO | 929+38 | 91 | 45.5 | | | | 24 | | | | | | | |
| 929+38 | TO | 944+98 | 3120 | 780 | | 3120 | | 24 | | | | | | | |
| 944+98 | TO | 945+93 | 95 | | | | | 60 | | | | | | | |
| 945+93 | TO | 948+68 | 550 | 137.5 | 275 | 550 | | | 46.8 | | | | | | |
| 948+68 | TO | 965+63 | 3390 | 848 | | 3390 | | | | | | | | | |
| BRIDGE OMISSION | | | | | | | | | | 786 | 197 | | 786 | | |
| 969+56 | TO | 988+78 | 3844 | 961 | | 3844 | | | | | | | | | |
| | | | 19096 | | | 14236 | | | | 983 | | | 786 | | |
| TOTAL | | | 33332 FOOT | | | 335 FOOT | | 309 FOOT | | 218.5 SO FT | | 1769 FT | | | |

| IL ROUTE 143 | | | | | | | | | | | | | | | |
|------------------|----|---------|-------------------------------------|-----------|-----------|-----------------------------------|----------|-----------------------------------|-----------|--|-----------|-----------------------------|-----------|--|--------|
| | | | THERMOPLASTIC PAVEMENT MARKING - 4" | | | THERMOPLASTIC PVM'T MARKING - 12" | | THERMOPLASTIC PVM'T MARKING - 24" | | THERMOPLASTIC PVM'T MARKING LETTER & SYMBOLS | | PAINT PAVEMENT MARKING - 4" | | | |
| | | | WHITE | | | YELLOW | | YELLOW | | WHITE | | WHITE | | | YELLOW |
| STATION | TO | STATION | EDGE LINE | SKIP DASH | TURN LINE | EDGE LINE | DIAGONAL | STOP BARS | STOP BARS | EDGE LINE | SKIP DASH | TURN LINE | EDGE LINE | | |
| 0+00 | TO | 10+80 | 2160 | 540 | | 2160 | | | | | | | | | |
| 10+80 | TO | 13+32 | 504 | 126 | 252 | 504 | | | 31.2 | | | | | | |
| 13+32 | TO | 14+52 | | 60 | | | | 72 | | | | | | | |
| 14+52 | TO | 17+08 | 512 | 128 | 256 | 512 | | | 31.2 | | | | | | |
| 17+08 | TO | 29+89 | 2562 | 641 | | 2562 | | | | | | | | | |
| | | | 7741 | | | 5738 | | | | | | | | | |
| TOTAL | | | 13479 FOOT | | | 72 FOOT | | 62.5 SO FT | | 1769 FT | | | | | |
| JOB TOTAL | | | 46811 FOOT | | | 335 FOOT | | 381 FOOT | | 281 SO FT | | 1769 FT | | | |



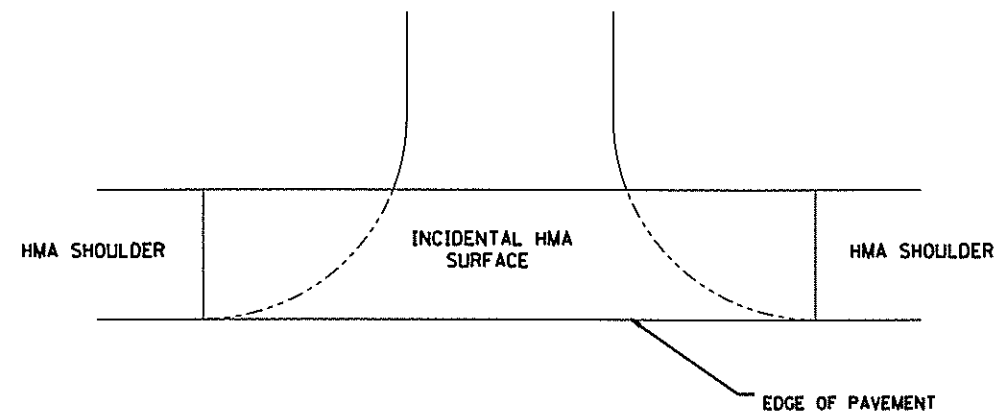
IL ROUTE 143

BEGIN IL ROUTE 3 PROJECT AT BUTT JT. STA. 910+08.5



IL ROUTE 3

| | | | | | | | | | | | | |
|-------------|-------------------|------------|-----------|---|---------------|---------------------|---------------------|---------|---------------------------|--------------|-----------|----|
| FILE NAME * | USER NAME * USER# | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | LOCATION MAPS | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | |
| *FILE# | | DRAWN - | REVISED - | | SCALE: | SHEET NO. OF SHEETS | STA. TO STA. | 789/2 | 202RS-4, 406-IRS-1 | MADISON | 22 | 17 |
| | | CHECKED - | REVISED - | | | | | | | | | |
| | | DATE - | REVISED - | | | | | | | | | |
| | | | | | | | FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | | |



SIDEROAD DETAIL

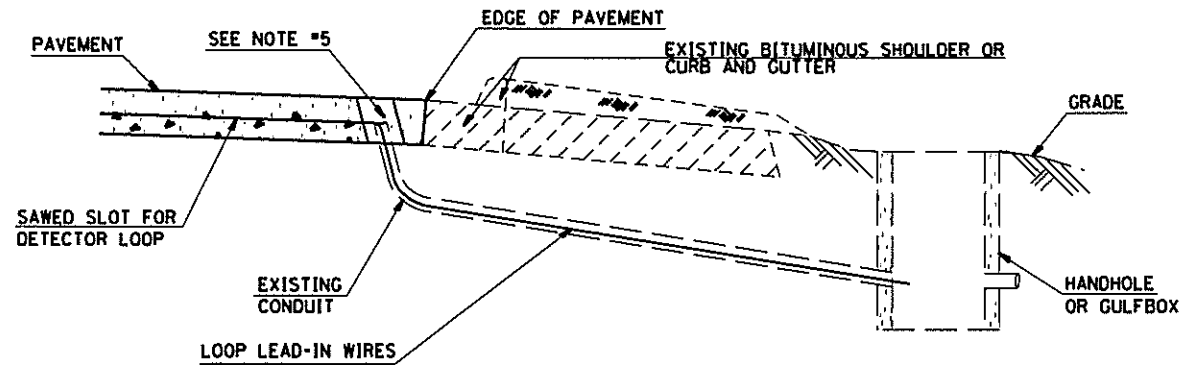
| | | | | | | | | | | | | |
|-----------------------|----------------------|------------------|-----------------|---|--------------------|-----------------------------|--------------------------|--|-------------------|-----------------------|--------------------|--|
| FILE NAME = #FILE# | USER NAME * #USER# | DESIGNED - _____ | REVISED - _____ | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DETAILS | | F.A.P. RTE. 789/2 | SECTION 202RS-4, 406-IRS-1 | COUNTY MADISON | TOTAL SHEETS 22 | SHEET NO. 18 | |
| | PLOT SCALE * #SCALE# | DRAWN - JEC | REVISED - _____ | | SCALE: _____ | SHEET NO. ___ OF ___ SHEETS | STA. _____ TO STA. _____ | FED. ROAD DIST. NO., [ILLINOIS] FED. AID PROJECT | | | | |
| | PLOT DATE * #DATE# | CHECKED - _____ | REVISED - _____ | | CONTRACT NO. 76HQ4 | | | | | | | |
| | | DATE - _____ | REVISED - _____ | | | | | | | | | |

NOTES:

SEE TABLE "DETECTOR LOOP REQUIREMENTS AND CALCULATIONS" FOR LOOP SIZE AND CALCULATED NUMBER OF TURNS.

SEE "DETAIL A" FOR INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUITS.

| SCHEDULE OF QUANTITIES | | | TOTAL | IL 143 | IL 002 | IL 003 |
|------------------------|----------------------------|------|------------|------------------|-------------------|----------------|
| CODE NO | ITEM | UNIT | QUANTITIES | DISCOVERY PRKWAY | EASTGATE PLZ. DR. | OLIN IND. ENT. |
| 110 | LOCATING UNDERGROUND CABLE | FOOT | 110 | 40 | 40 | 30 |
| 1344 | DETECTOR LOOP REPLACEMENT | FOOT | 1344 | 527 | 521 | 296 |



DETAIL A
(NO SCALE)

INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUIT

1. DRILL OUT PAVEMENT SEALANT AND CLEAN EXISTING CONDUIT.
2. REMOVE EXISTING DETECTOR LOOP WIRES TO HANDHOLE OR GULFBOX.
3. INSTALL NEW LOOP LEAD-IN WIRES IN EXISTING CONDUIT.
4. SPLICE NEW DETECTOR LOOP WIRES TO EXISTING LOOP LEAD-IN CABLE IN HANDHOLE OR GULFBOX.
5. FILL HOLE WITH APPROVED SEALER, PREVENT SEALER FROM ENTERING INTO CONDUIT.
6. LOCATING UNDERGROUND CABLE WILL BE PAID FOR SEPARATELY.

NOT A PAY ITEM, THE COST OF THIS WORK SHALL BE INCLUDED IN THE PAY ITEM "DETECTOR LOOP REPLACEMENT"

DETECTOR LOOP REPLACEMENT LEGEND

- ☐ EX. HANDHOLE
- EX. DETECTOR LOOP
- ⊠ EX. TRAFFIC SIGNAL CONTROLLER
- EXISTING CONDUIT
- ▬ PROPOSED DETECTOR LOOP

••FAP 789/FAP 2

| | | | | | | | | | | |
|-----------------------|----------------------|----------------|---------------|---|--|---------------------|-------------------------|---------------------------|--------------|-----------|
| FILE NAME * #FILE* | USER NAME * #USER* | DESIGNED - ___ | REVISED - ___ | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DETECTOR LOOP REPLACEMENT PLAN GENERAL NOTES, SCHEDULE OF QUANTITIES, DETAIL AND LEGEND | F.A.P. DATE | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE * #SCALE* | CHECKED - ___ | REVISED - ___ | | | 202RS-4, 406-IRS-1 | MADISON | 22 | 19 | |
| | PLOT DATE * #DATE* | DATE - ___ | REVISED - ___ | | | CONTRACT NO. 76HO-4 | | ILLINOIS FED. AID PROJECT | | |
| | | | | | | SCALE: _____ | SHEET NO. 1 OF 4 SHEETS | STA. _____ TO STA. _____ | | |

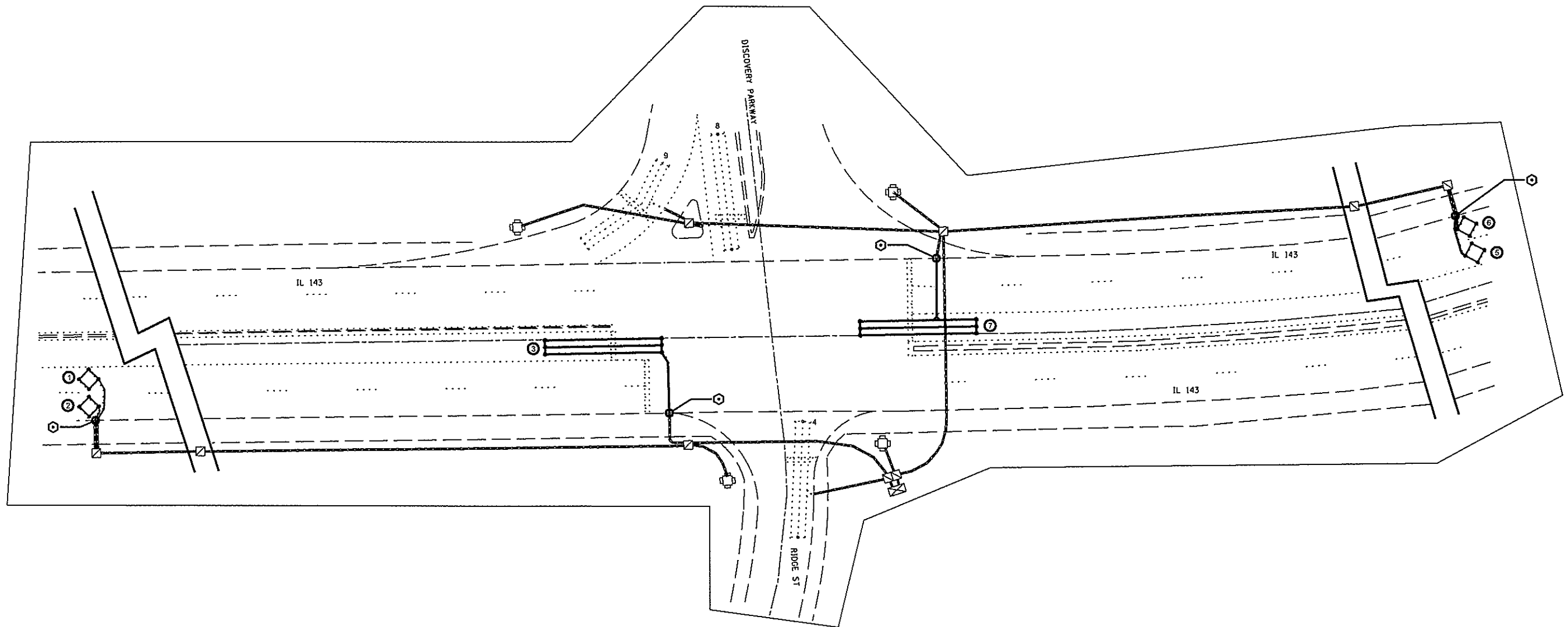
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 143 & DISCOVERY PARKWAY

| LOOP# | PHASE# | LOOP SIZE (FT. X FT.) | REQUIRED # OF TURNS | CALCULATED INDUCTANCE MICROHENRIES | CALCULATED RESISTANCE OHMS |
|---------------|--------|-----------------------|---------------------|------------------------------------|----------------------------|
| 1. SB CCO A | 2 | 6 X 6 | 7 | 538.3 | 4.3 |
| 2. SB CCO B | 2 | 6 X 6 | 7 | 535.4 | 4.3 |
| 3. SB LT CD | 5 | 6 X 50-0 | 3-6-3 | 849.6 | 3.0 |
| 4. EB THRU CD | 3 | 6 X 50-0 | 3-6-3 | 798.5 | 1.9 |
| 5. NB CCO A | 6 | 6 X 6 | 7 | 509.7 | 3.7 |
| 6. NB CCO B | 6 | 6 X 6 | 7 | 506.8 | 3.6 |
| 7. NB LT CD | 1 | 6 X 50-0 | 3-6-3 | 826.0 | 1.6 |
| 8. EB THRU CD | 4 | 6 X 50-0 | 3-6-3 | 821.0 | 2.4 |
| 9. EB RT CD | 4 | 6 X 50-0 | 3-6-3 | 821.8 | 2.4 |

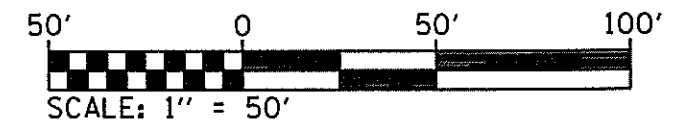
THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

□=QUADRAPOLE

⊙=SEE DETAIL A



IL 143 & DISCOVERY PARKWAY



**FAP 789/FAP 2

| | | | | | | | | | | | |
|-------------|--------------------|---------------------|-----------|---|--------------------------------|-------------------------|--------------------------|--------------------|--------|---------------------------|-----------|
| FILE NAME * | USER NAME * #USER* | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DETECTOR LOOP REPLACEMENT PLAN | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| *FILE# | | DRAWN - | REVISED - | | 1 OF 3 | 202RS-4, 406-IRS-1 | MADISON | 22 | 29 | | |
| | | CHECKED - | REVISED - | | SCALE: _____ | SHEET NO. 2 OF 4 SHEETS | STA. _____ TO STA. _____ | CONTRACT NO. 76MC4 | | ILLINOIS FED. AID PROJECT | |
| | | PLLOT DATE * #DATE* | DATE - | | | | | | | | |

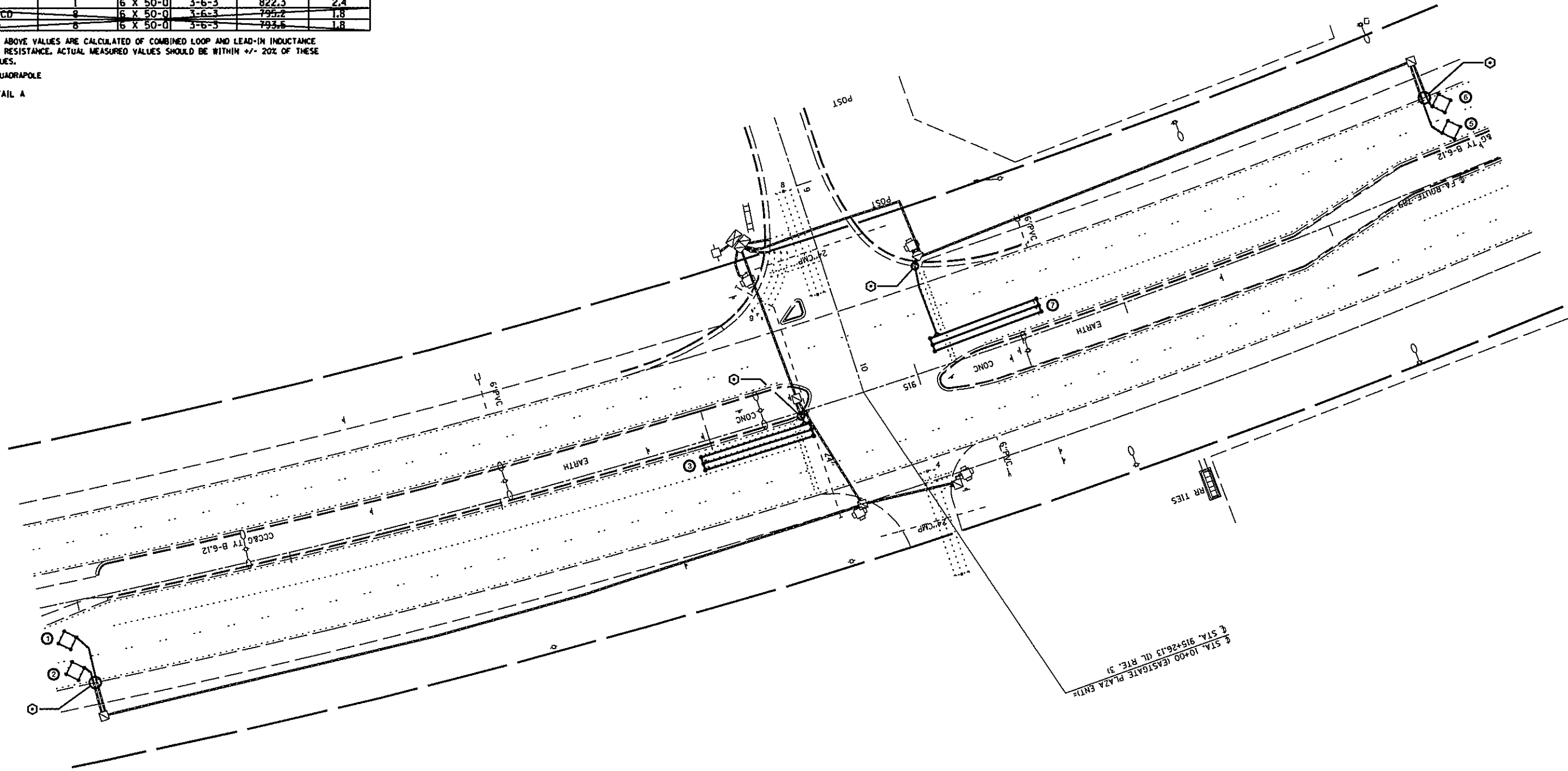
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 003 & EASTGATE PLAZA DR.

| LOOP# | PHASE# | LOOP SIZE (FT. X FT.) | REQUIRED # OF TURNS | CALCULATED INDUCTANCE MICROHENRIES | CALCULATED RESISTANCE OHMS |
|---------------|--------|-----------------------|---------------------|------------------------------------|----------------------------|
| 1. SB CCO A | 2 | 6 X 6 | 6 | 377.9 | 3.2 |
| 2. SB CCO B | 2 | 6 X 6 | 6 | 374.6 | 3.1 |
| 3. SB LT CD | 5 | 6 X 50-0 | 3-6-3 | 823.4 | 2.4 |
| 4. EB THRU CD | 4 | 6 X 50-0 | 3-6-3 | 832.9 | 2.7 |
| 5. NB CCO A | 6 | 6 X 6 | 6 | 344.0 | 2.4 |
| 6. NB CCO B | 6 | 6 X 6 | 6 | 340.9 | 2.3 |
| 7. NB LT CD | 1 | 6 X 50-0 | 3-6-3 | 822.3 | 2.4 |
| 8. WB THRU CD | 8 | 6 X 50-0 | 3-6-3 | 795.2 | 1.8 |
| 9. WB RT CD | 8 | 6 X 50-0 | 3-6-3 | 793.6 | 1.8 |

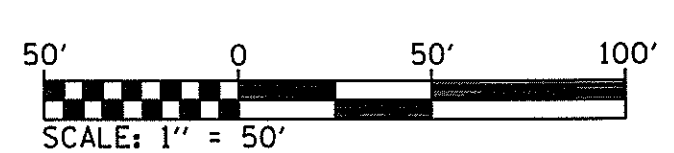
THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

○ QUADRAPOLE

⊙ SEE DETAIL A



IL 003 & EASTGATE PLAZA DR.



**FAP 789/FAP 2

| | | | | | | | | | | | |
|-----------------------|----------------------|------------|-----------|---|--|-------------------------|----------------|--------------------|---------|-----------------------------|-----------|
| FILE NAME * #FILE# | USER NAME * #USER# | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DETECTOR LOOP REPLACEMENT PLAN 2 OF 3 | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | PLOT SCALE * #SCALE# | DRAWN - | REVISED - | | SCALE: _____ | SHEET NO. 3 OF 4 SHEETS | STA. _____ | 202RS-4, 406-IRS-1 | MADISON | 22 | 21 |
| | PLOT DATE * #DATE# | CHECKED - | REVISED - | | TO STA. _____ | | | CONTRACT NO. 76M04 | | (ILLINOIS) FED. AID PROJECT | |
| | | DATE - | REVISED - | | | | | | | | |

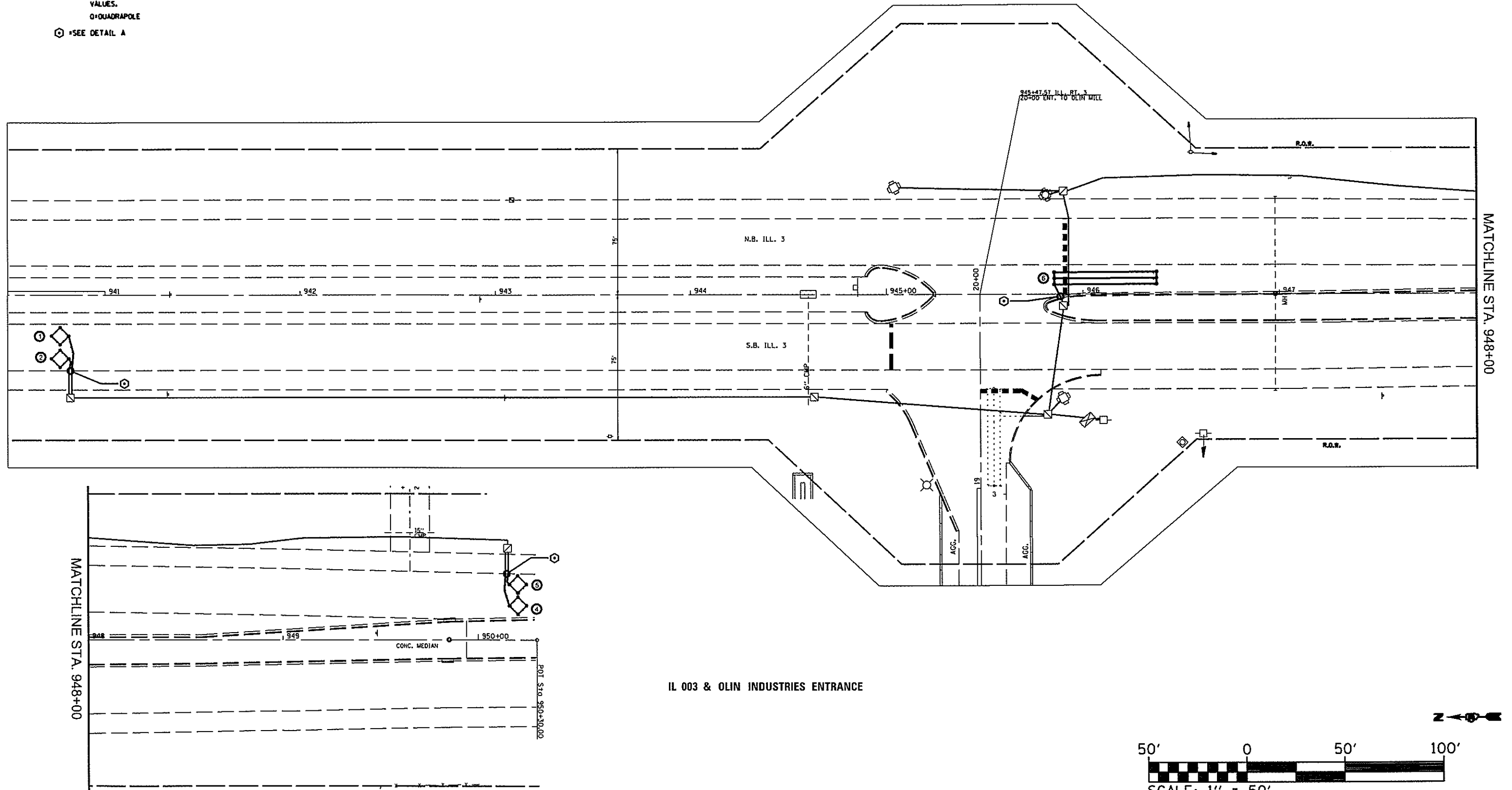
DETECTOR LOOP REQUIREMENTS AND CALCULATIONS
FOR IL 003 & OLIN INDUSTRIES ENTRANCE

| LOOP# | PHASE# | LOOP SIZE (FT. X FT.) | REQUIRED # OF TURNS | CALCULATED INDUCTANCE MICROHENRIES | CALCULATED RESISTANCE OHMS |
|---------------|--------|-----------------------|---------------------|------------------------------------|----------------------------|
| 1. SB CCO A | 2 | 6 X 6 | 6 | 377.9 | 3.2 |
| 2. SB CCO B | 2 | 6 X 6 | 6 | 375.2 | 3.1 |
| 3. FB THRU CD | 4 | 6 X 50-0 | 3-6-3 | 796.8 | 1.6 |
| 4. NB CCO A | 6 | 6 X 6 | 7 | 498.5 | 3.4 |
| 5. NB CCO B | 6 | 6 X 6 | 7 | 496.1 | 3.4 |
| 6. NB LT CD | 1 | 6 X 50-0 | 3-6-3 | 804.9 | 2.0 |

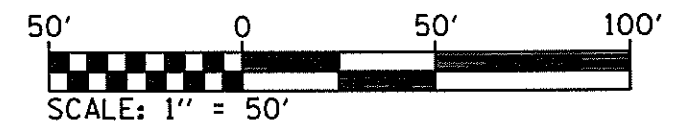
THE ABOVE VALUES ARE CALCULATED OF COMBINED LOOP AND LEAD-IN INDUCTANCE AND RESISTANCE. ACTUAL MEASURED VALUES SHOULD BE WITHIN +/- 20% OF THESE VALUES.

□=QUADRAPOLE

⊙=SEE DETAIL A



IL 003 & OLIN INDUSTRIES ENTRANCE



**FAP 789/FAP 2

| | | | | | | | | | | | | | |
|-------------|----------------------|------------|-----------|---|--|--------------|-------------------------|--------------------------|---------------------------|---------|--------|--------------|-----------|
| FILE NAME * | USER NAME * #USER* | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DETECTOR LOOP REPLACEMENT PLAN 3 OF 3 | SCALE: _____ | SHEET NO. 4 OF 4 SHEETS | STA. _____ TO STA. _____ | F.A.P. RTE. * | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| *FILEL# | | DRAWN - | REVISED - | | | | | | 202RS-4, 406-IRS-1 | MADISON | 22 | 22 | |
| | PLOT SCALE * #SCALE* | CHECKED - | REVISED - | | | | | | CONTRACT NO. 76H04 | | | | |
| | PLOT DATE * #DATE* | DATE - | REVISED - | | | | | | ILLINOIS FED. AID PROJECT | | | | |