

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|----------|--------|--------------|-----------|
| 531 | 40X-RS-4 | WILL | 18 | 1 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 531: MANHATTAN-MONEE ROAD
SCHEER ROAD TO CENTER ROAD
SECTION: 40X-RS-8
RESURFACING (3P)
WILL COUNTY
C-91-300-07

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT IS LOCATED IN UNINCORPORATED WILL COUNTY

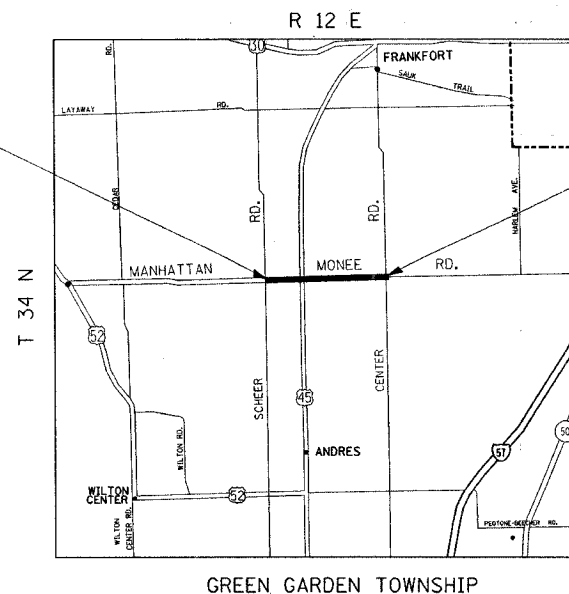
D-91-300-07



LOCATION OF SECTION INDICATED THUS: —

IMPROVEMENT BEGINS: STATION 55+16

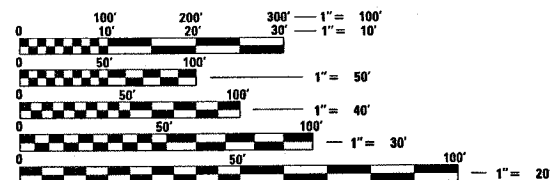
BRIDGE OMISSION: STA. 83+27 TO STA. 84+44



IMPROVEMENT ENDS: STATION 214+16

TRAFFIC DATA

2004 ADT = 3,900
SPEED LIMIT = 45 MPH



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

GROSS LENGTH OF IMPROVEMENT = 15,900 FT. (3.01 MI.)
NET LENGTH OF IMPROVEMENT = 15,783 FT. (2.99 MI.)

CONTRACT NO. 60C62

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED April 12, 2007

[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

May 11, 2007
[Signature]
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

May 11, 2007
[Signature]
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

DISTRICT ONE - PLAN PREPARATION ENGINEER: KEN ENG/JENPAI CHANG (847) 705-4432

| | | | | |
|-----------------------|----------|----------|-----------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 531 | 40X-RS-4 | WILL | 18 | 3 |
| FED. ROAD DIST. NO. 1 | | ILLINOIS | HIGHWAY PROJECT | |

| SUMMARY OF QUANTITIES | | | URBAN 100% STATE CONSTRUCTION TYPE CODE | | | | |
|-----------------------|---|--------|--|---------|--|--|--|
| CODE NO | ITEM | UNIT | TOTAL QUANTITIES | I000-2A | | | |
| 20201006 | GRADING AND SHAPING SHOULDERS | UNIT | 330 | 330 | | | |
| 40600200 | BITUMINOUS MATERIALS (PRIME COAT) | TON | 15 | 15 | | | |
| 40600300 | AGGREGATE (PRIME COAT) | TON | 71 | 71 | | | |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS | TON | 22 | 22 | | | |
| 40600635 | LEVELING BINDER (MACHINE METHOD), N70 | TON | 1988 | 1988 | | | |
| 40600895 | CONSTRUCTING TEST STRIP | EACH | 1 | 1 | | | |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SQ YD | 106 | 106 | | | |
| 40600990 | TEMPORARY RAMP | SQ YD | 106 | 106 | | | |
| 40601005 | HOT-MIX ASPHALT REPLACEMENT OVER PATCHES | TON | 464 | 464 | | | |
| 40603340 | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 | TON | 2982 | 2982 | | | |
| 44000159 | HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" | SQ YD | 35500 | 35500 | | | |
| 44002216 | HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4" | SQ YD | 2071 | 2071 | | | |
| 44201815 | CLASS D PATCHES, TYPE II, 14 INCH | SQ YD | 415 | 415 | | | |
| 44201819 | CLASS D PATCHES, TYPE III, 14 INCH | SQ YD | 225 | 225 | | | |
| 44201821 | CLASS D PATCHES, TYPE IV, 14 INCH | SQ YD | 890 | 890 | | | |
| 48102100 | AGGREGATE WEDGE SHOULDER, TYPE B | TON | 1300 | 1300 | | | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 2 | 2 | | | |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 | | | |
| 70100460 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701306 | L SUM | 1 | 1 | | | |
| 70100600 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701336 | L SUM | 1 | 1 | | | |
| 70300100 | SHORT-TERM PAVEMENT MARKING | FOOT | 8650 | 8650 | | | |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 42495 | 42495 | | | |
| 70300280 | TEMPORARY PAVEMENT MARKING - LINE 24" | FOOT | 110 | 110 | | | |
| 70301000 | WORK ZONE PAVEMENT MARKING REMOVAL | SQ FT | 17050 | 17050 | | | |
| *78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 42495 | 42495 | | | |

| SUMMARY OF QUANTITIES | | | URBAN 100% STATE CONSTRUCTION TYPE CODE | | | | |
|-----------------------|---|-------|--|---------|--|--|--|
| CODE NO | ITEM | UNIT | TOTAL QUANTITIES | I000-2A | | | |
| *78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 110 | 110 | | | |
| *78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 287 | 287 | | | |
| 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 110 | 110 | | | |
| X0322256 | TEMPORARY INFORMATION SIGNING | SQ FT | 52 | 52 | | | |

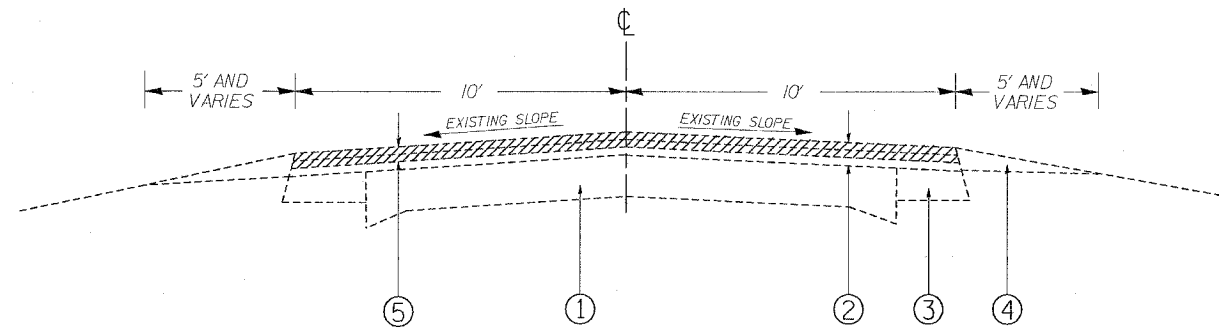
* SPECIALTY ITEMS

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
**MANHATTAN-MONEE ROAD
 SUMMARY OF QUANTITIES**

4/13/2007 09:50:00 AM C:\Users\jgibson\Documents\1020100010001000.mxd

| | | | | |
|---------------------|-----------|------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 531 | 40 X-RS-8 | WILL | 18 | 4 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

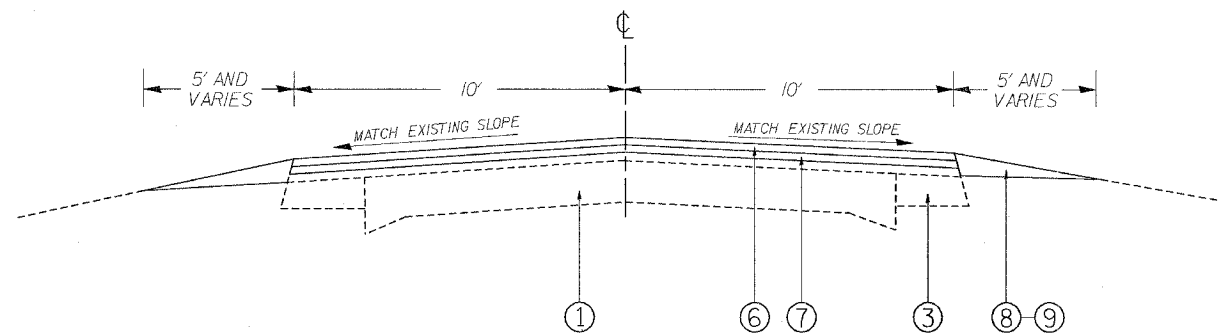


MANHATTAN-MONEE ROAD
EXISTING TYPICAL SECTION

STA 55+16 TO STA 83+27
STA 84+44 TO STA 108+06

LEGEND

- ① EXISTING 9"- 6"- 9" P.C.C. PAVEMENT
- ② EXISTING HOT-MIX ASPHALT PAVEMENT, ± 3 3/4"
- ③ EXISTING HOT-MIX ASPHALT SHOULDER
- ④ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑤ PROPOSED SURFACE REMOVAL, 2 1/2"
- ⑥ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- ⑦ PROPOSED LEVELING BINDER (MM), N70, 1"
- ⑧ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE 3
- ⑨ PROPOSED GRADING AND SHAPING SHOULDERS

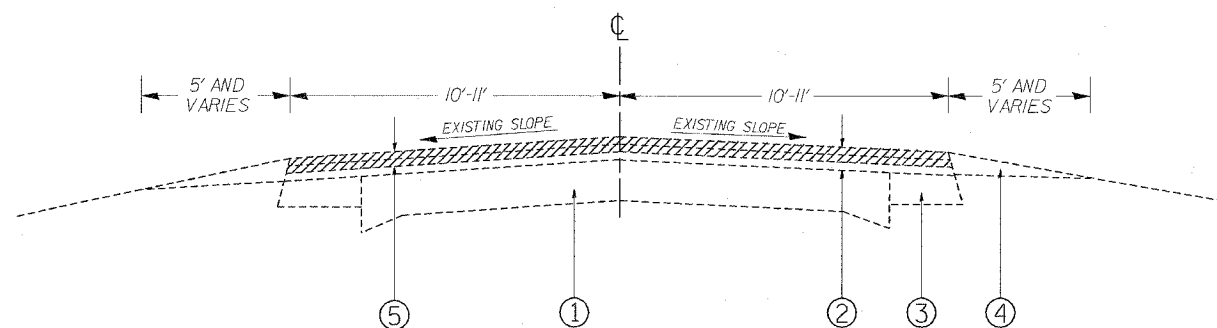


MANHATTAN-MONEE ROAD
PROPOSED TYPICAL SECTION

STA 55+16 TO STA 83+27
STA 84+44 TO STA 108+06

| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION |
|-----------|------|---|
| NAME | DATE | |
| | | <p>MANHATTAN-MONEE ROAD SCHEER RD. TO CENTER RD. EXISTING AND PROPOSED TYPICAL SECTIONS</p> <p>SCALE: VERT. _____ HORIZ. _____</p> <p>DATE _____</p> <p>DRAWN BY _____ CHECKED BY _____</p> |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |

| | | | | |
|---------------------|-----------|------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 531 | 40 X-RS-8 | WILL | 18 | 5 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |

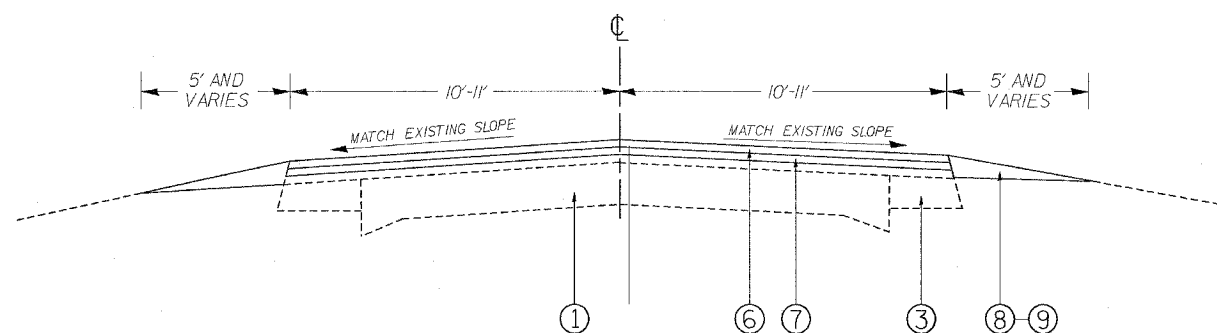


**MANHATTAN-MONEE ROAD
EXISTING TYPICAL SECTION**

STA 108+06 TO STA 214+16

LEGEND

- ① EXISTING 9"- 6"- 9" P.C.C. PAVEMENT
- ② EXISTING HOT-MIX ASPHALT PAVEMENT, ± 3¾"
- ③ EXISTING HOT-MIX ASPHALT SHOULDER
- ④ EXISTING AGGREGATE SHOULDER, TYPE B
- ⑤ PROPOSED SURFACE REMOVAL, 2½"
- ⑥ PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1½"
- ⑦ PROPOSED LEVELING BINDER (MM), N70, 1"
- ⑧ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑨ PROPOSED GRADING AND SHAPING SHOULDERS

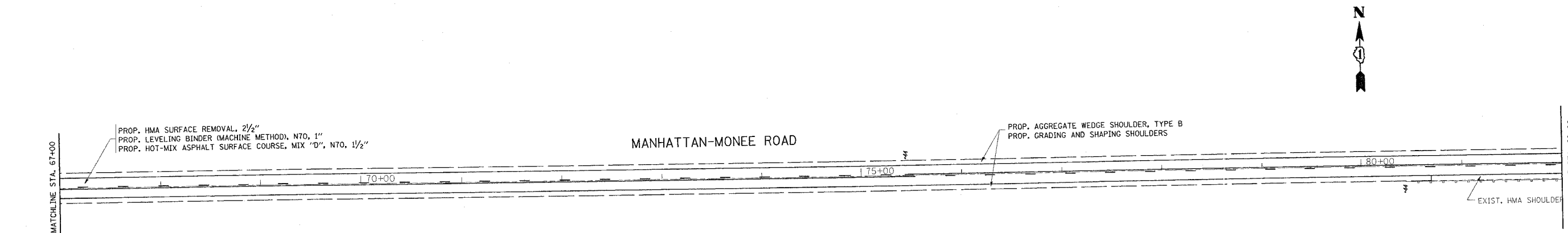
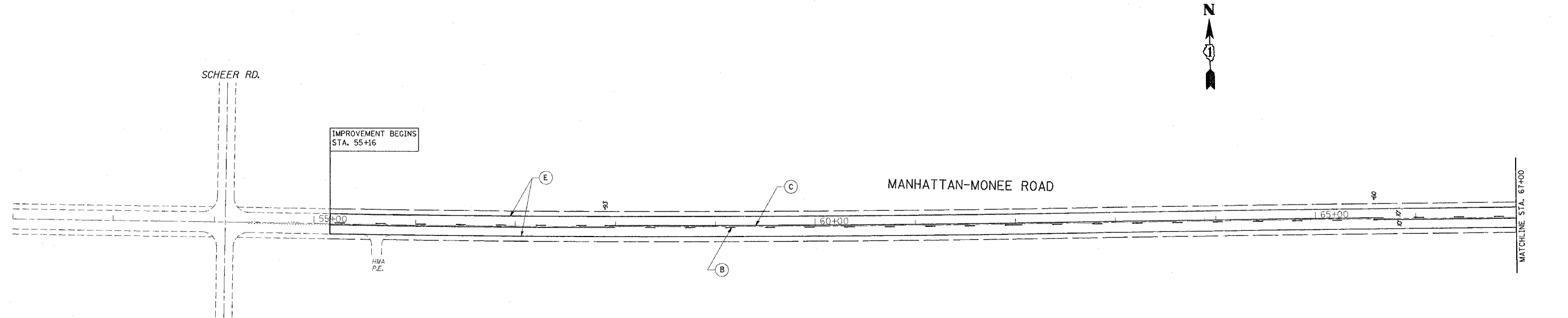


**MANHATTAN-MONEE ROAD
PROPOSED TYPICAL SECTION**

STA 108+06 TO STA 214+16

| REVISIONS | | ILLINOIS DEPARTMENT OF TRANSPORTATION |
|-----------|------|--|
| NAME | DATE | |
| | | MANHATTAN-MONEE ROAD SCHEER RD. TO CENTER RD. EXISTING AND PROPOSED TYPICAL SECTIONS SCALE: VERT. _____ HORIZ. _____ DATE _____ |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | |
| | | DRAWN BY _____ CHECKED BY _____ |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|-----------------|--------------|-----------|
| 531 | 40 X-RS-8 | WILL | 18 | 6 |
| STA. 52 + 00 | | TO STA. 82 + 00 | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



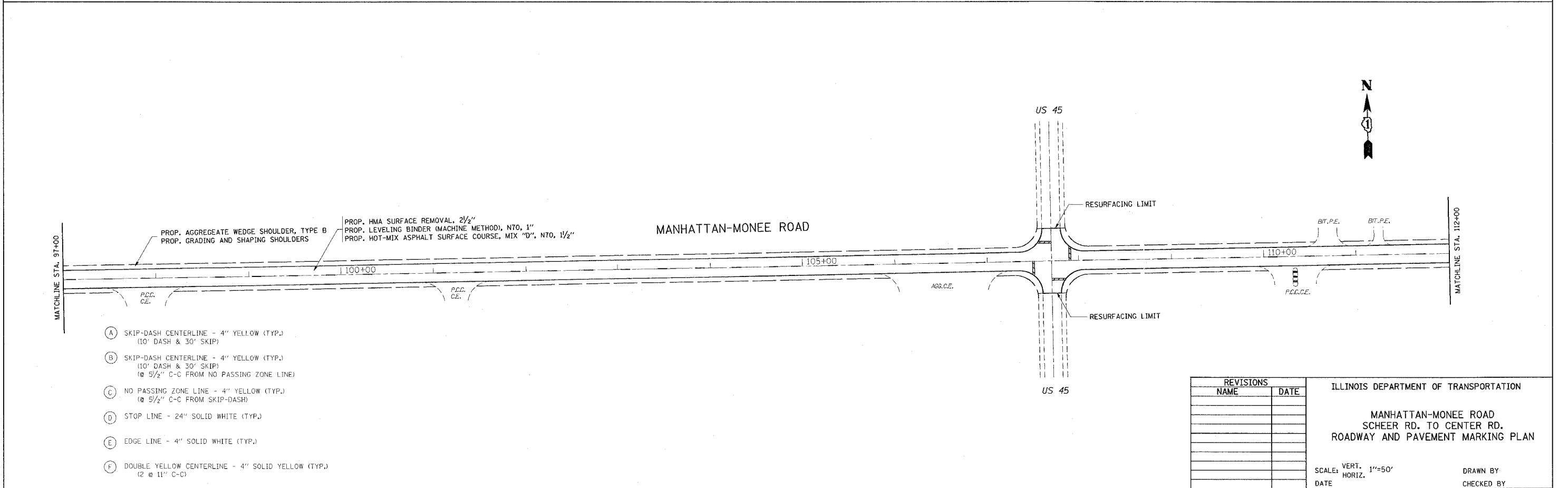
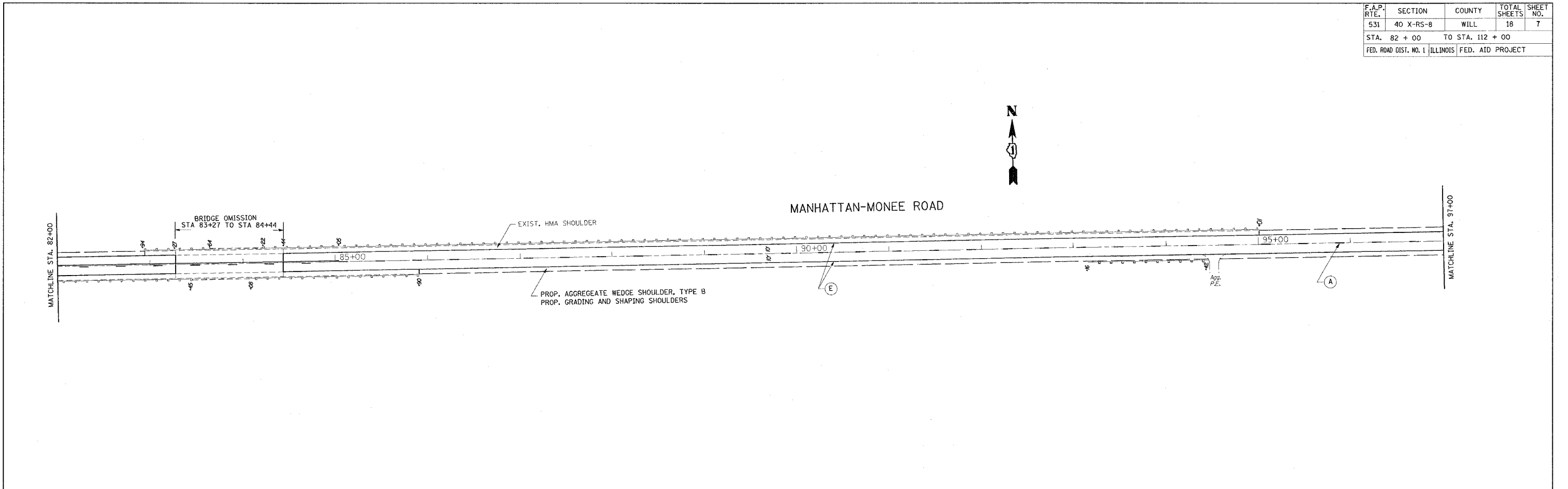
- (A) SKIP-DASH CENTERLINE - 4" YELLOW (TYP.)
(10' DASH & 30' SKIP)
- (B) SKIP-DASH CENTERLINE - 4" YELLOW (TYP.)
(10' DASH & 30' SKIP)
(@ 5 1/2" C-C FROM NO PASSING ZONE LINE)
- (C) NO PASSING ZONE LINE - 4" YELLOW (TYP.)
(@ 5 1/2" C-C FROM SKIP-DASH)
- (D) STOP LINE - 24" SOLID WHITE (TYP.)
- (E) EDGE LINE - 4" SOLID WHITE (TYP.)
- (F) DOUBLE YELLOW CENTERLINE - 4" SOLID YELLOW (TYP.)
(2 @ 11" C-C)

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

ILLINOIS DEPARTMENT OF TRANSPORTATION
 MANHATTAN-MONEE ROAD
 SCHEER RD. TO CENTER RD.
 ROADWAY AND PAVEMENT MARKING PLAN

SCALE: VERT. 1"=50'
 HORIZ. 1"=50'
 DATE _____ DRAWN BY _____
 CHECKED BY _____

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|-----------|------------------|------------------|-----------|
| 531 | 40 X-RS-8 | WILL. | 18 | 7 |
| STA. 82 + 00 | | TO STA. 112 + 00 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS | FED. AID PROJECT | |



- (A) SKIP-DASH CENTERLINE - 4" YELLOW (TYP.)
(10' DASH & 30' SKIP)
- (B) SKIP-DASH CENTERLINE - 4" YELLOW (TYP.)
(10' DASH & 30' SKIP)
(@ 5 1/2" C-C FROM NO PASSING ZONE LINE)
- (C) NO PASSING ZONE LINE - 4" YELLOW (TYP.)
(@ 5 1/2" C-C FROM SKIP-DASH)
- (D) STOP LINE - 24" SOLID WHITE (TYP.)
- (E) EDGE LINE - 4" SOLID WHITE (TYP.)
- (F) DOUBLE YELLOW CENTERLINE - 4" SOLID YELLOW (TYP.)
(2 @ 11" C-C)

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

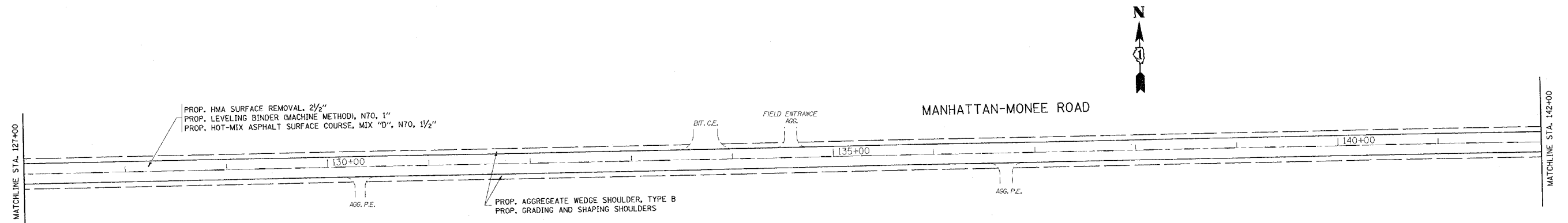
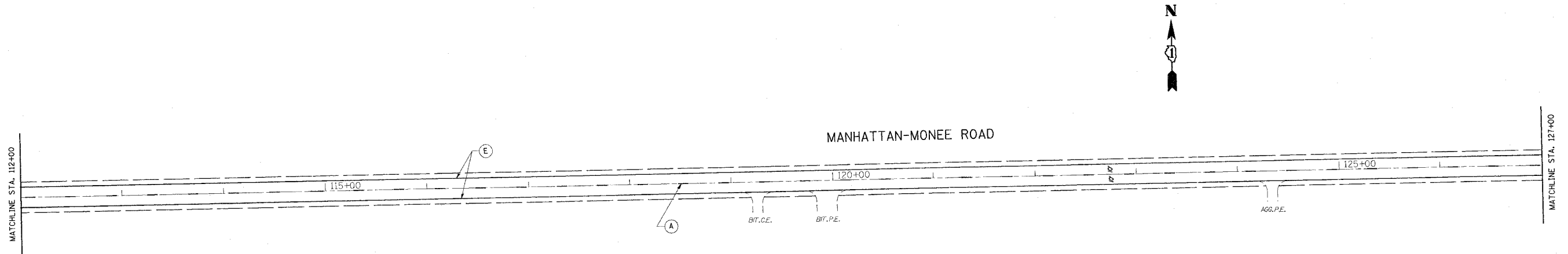
ILLINOIS DEPARTMENT OF TRANSPORTATION

MANHATTAN-MONEE ROAD
SCHEER RD. TO CENTER RD.
ROADWAY AND PAVEMENT MARKING PLAN

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

DATE _____ DRAWN BY _____
CHECKED BY _____

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|---------------------------|--------------|-----------|
| 531 | 40 X-RS-8 | WILL | 18 | 8 |
| STA. 112 + 00 | | TO STA. 142 + 00 | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |



- (A) SKIP-DASH CENTERLINE - 4" YELLOW (TYP.)
(10' DASH & 30' SKIP)
- (B) SKIP-DASH CENTERLINE - 4" YELLOW (TYP.)
(10' DASH & 30' SKIP)
(@ 5 1/2" C-C FROM NO PASSING ZONE LINE)
- (C) NO PASSING ZONE LINE - 4" YELLOW (TYP.)
(@ 5 1/2" C-C FROM SKIP-DASH)
- (D) STOP LINE - 24" SOLID WHITE (TYP.)
- (E) EDGE LINE - 4" SOLID WHITE (TYP.)
- (F) DOUBLE YELLOW CENTERLINE - 4" SOLID YELLOW (TYP.)
(2 @ 11" C-C)

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

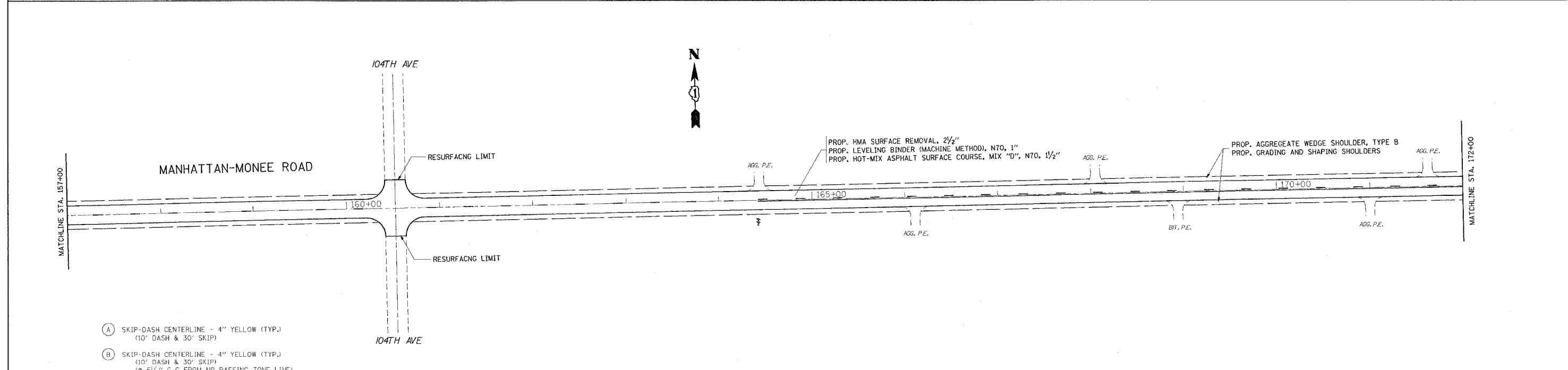
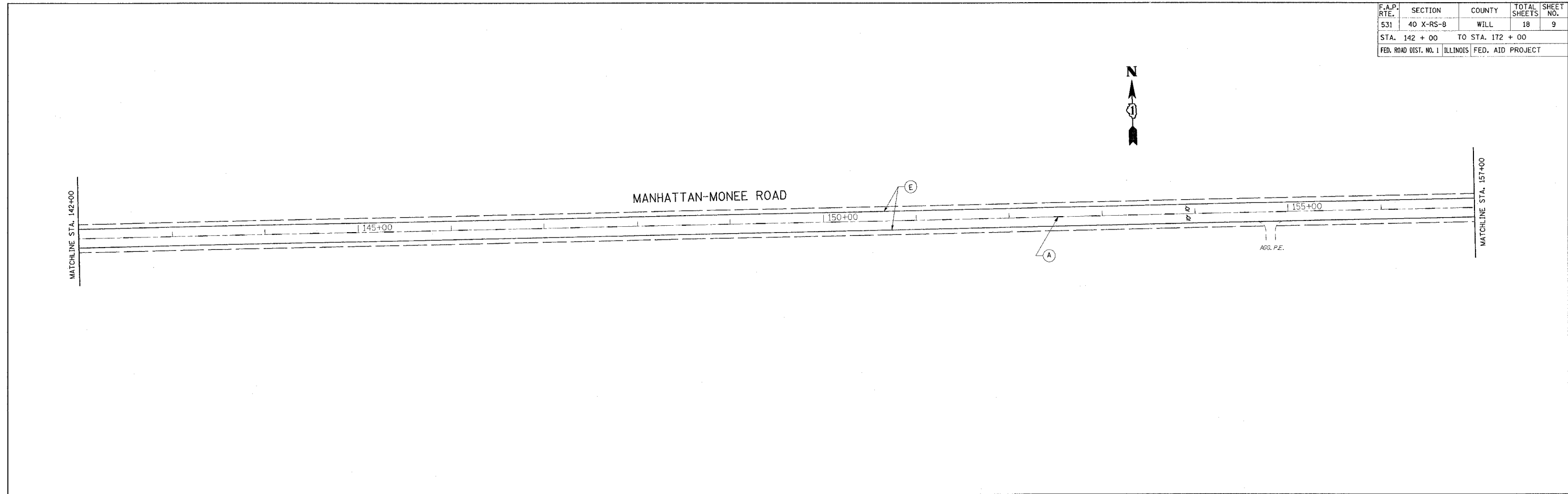
ILLINOIS DEPARTMENT OF TRANSPORTATION

MANHATTAN-MONEE ROAD
SCHEER RD. TO CENTER RD.
ROADWAY AND PAVEMENT MARKING PLAN

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

DRAWN BY
CHECKED BY

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|-----------|---------------------------|--------------|-----------|
| 531 | 40 X-RS-8 | WILL | 18 | 9 |
| STA. 142 + 00 | | TO STA. 172 + 00 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT | | |



- (A) SKIP-DASH CENTERLINE - 4" YELLOW (TYP.)
(10' DASH & 30' SKIP)
- (B) SKIP-DASH CENTERLINE - 4" YELLOW (TYP.)
(10' DASH & 30' SKIP)
(@ 5 1/2" C-C FROM NO PASSING ZONE LINE)
- (C) NO PASSING ZONE LINE - 4" YELLOW (TYP.)
(@ 5 1/2" C-C FROM SKIP-DASH)
- (D) STOP LINE - 24" SOLID WHITE (TYP.)
- (E) EDGE LINE - 4" SOLID WHITE (TYP.)
- (F) DOUBLE YELLOW CENTERLINE - 4" SOLID YELLOW (TYP.)
(2 @ 11" C-C)

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

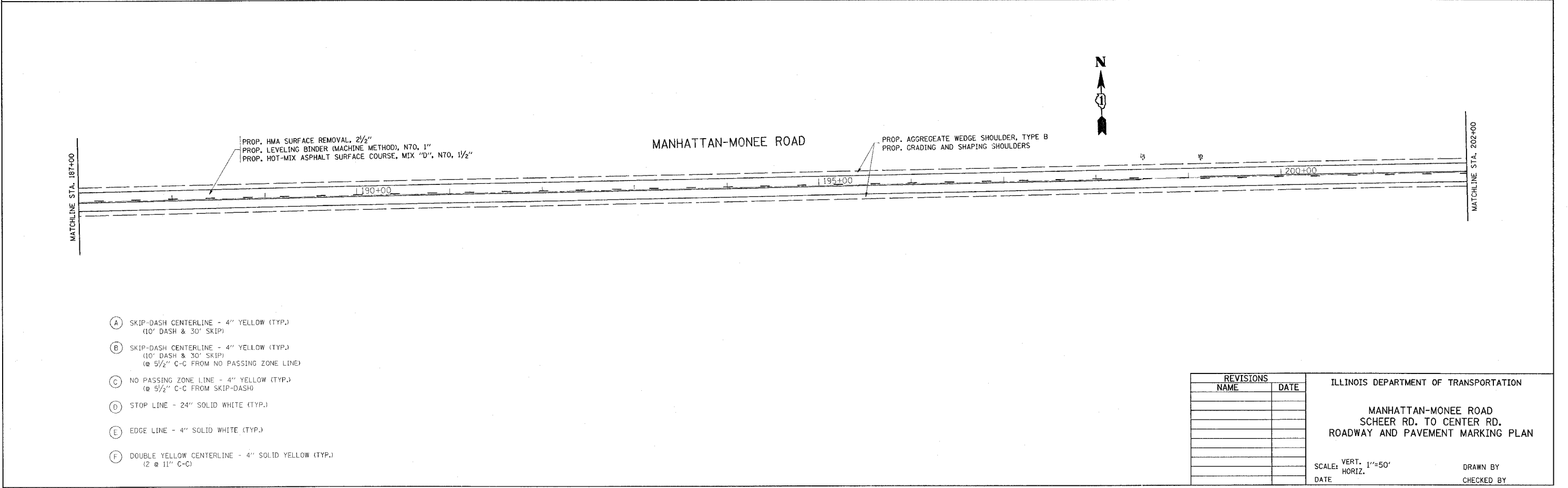
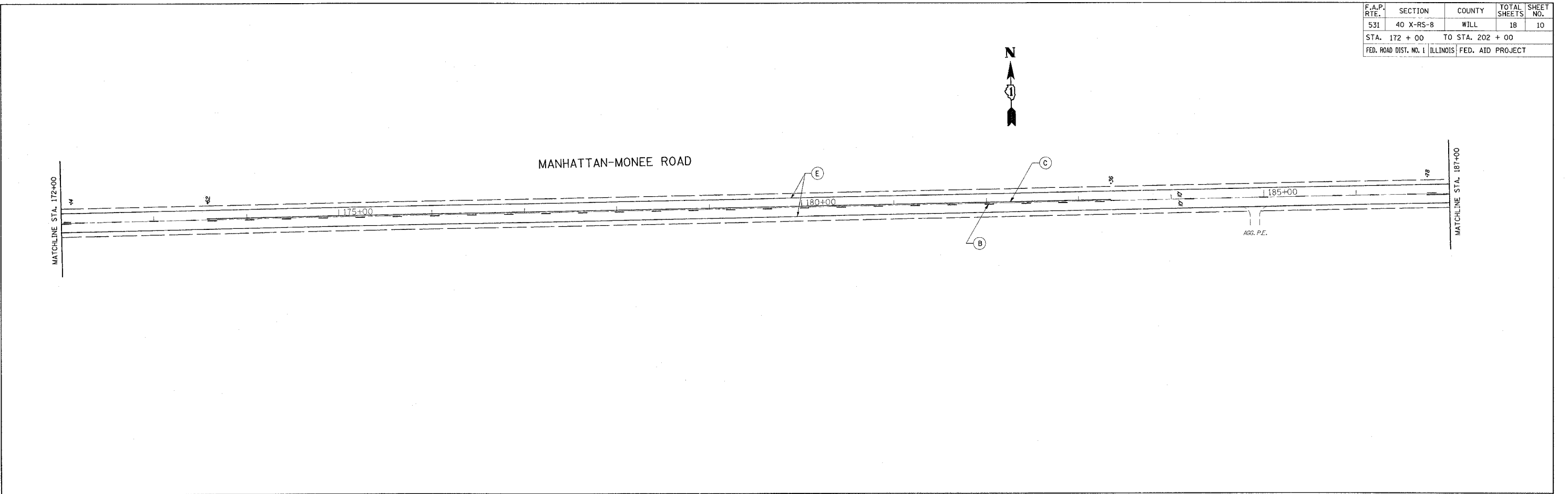
ILLINOIS DEPARTMENT OF TRANSPORTATION

**MANHATTAN-MONEE ROAD
SCHEER RD. TO CENTER RD.
ROADWAY AND PAVEMENT MARKING PLAN**

SCALE: VERT. 1"=50'
HORIZ. DATE

DRAWN BY
CHECKED BY

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|-----------|---------------------------|--------------|-----------|
| 531 | 40 X-RS-8 | WILL | 18 | 10 |
| STA. 172 + 00 | | TO STA. 202 + 00 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT | | |



- (A) SKIP-DASH CENTERLINE - 4" YELLOW (TYP.)
(10' DASH & 30' SKIP)
- (B) SKIP-DASH CENTERLINE - 4" YELLOW (TYP.)
(10' DASH & 30' SKIP)
(@ 5 1/2" C-C FROM NO PASSING ZONE LINE)
- (C) NO PASSING ZONE LINE - 4" YELLOW (TYP.)
(@ 5 1/2" C-C FROM SKIP-DASH)
- (D) STOP LINE - 24" SOLID WHITE (TYP.)
- (E) EDGE LINE - 4" SOLID WHITE (TYP.)
- (F) DOUBLE YELLOW CENTERLINE - 4" SOLID YELLOW (TYP.)
(2 @ 11" C-C)

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

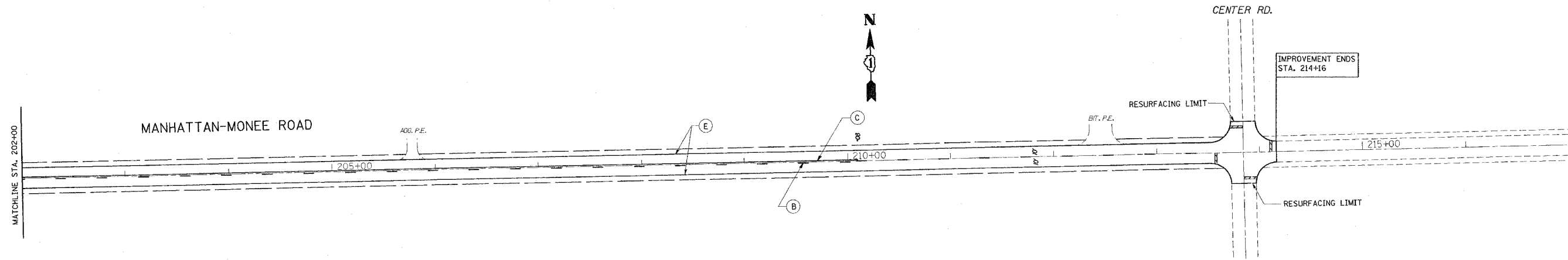
ILLINOIS DEPARTMENT OF TRANSPORTATION

MANHATTAN-MONEE ROAD
SCHEER RD. TO CENTER RD.
ROADWAY AND PAVEMENT MARKING PLAN

SCALE: VERT. 1"=50'
HORIZ. DATE

DRAWN BY
CHECKED BY

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|-----------|---------------------------|--------------|-----------|
| 531 | 40 X-RS-8 | WILL | 18 | 11 |
| STA. 202 + 00 | | TO STA. 217 + 00 | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT | | |



- (A) SKIP-DASH CENTERLINE - 4" YELLOW (TYP.)
(10' DASH & 30' SKIP)
- (B) SKIP-DASH CENTERLINE - 4" YELLOW (TYP.)
(10' DASH & 30' SKIP)
(@ 5 1/2" C-C FROM NO PASSING ZONE LINE)
- (C) NO PASSING ZONE LINE - 4" YELLOW (TYP.)
(@ 5 1/2" C-C FROM SKIP-DASH)
- (D) STOP LINE - 24" SOLID WHITE (TYP.)
- (E) EDGE LINE - 4" SOLID WHITE (TYP.)
- (F) DOUBLE YELLOW CENTERLINE - 4" SOLID YELLOW (TYP.)
(2 @ 11" C-C)

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

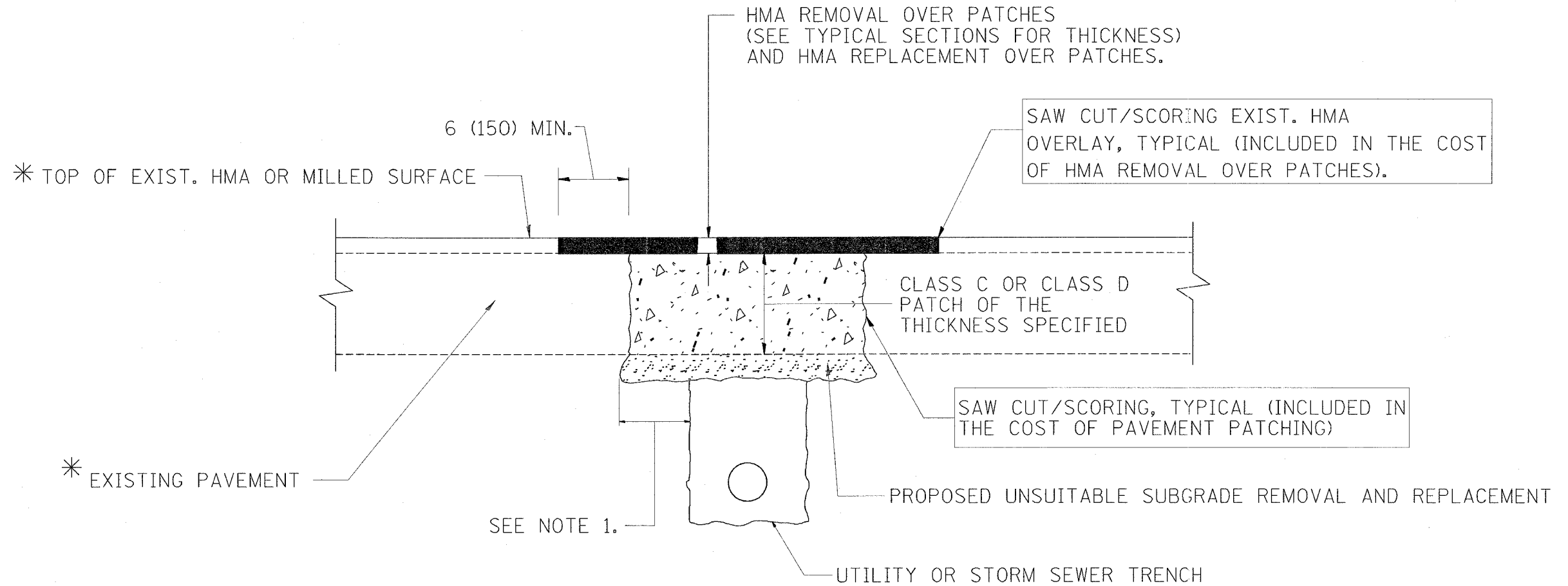
ILLINOIS DEPARTMENT OF TRANSPORTATION

MANHATTAN-MONEE ROAD
SCHEER RD. TO CENTER RD.
ROADWAY AND PAVEMENT MARKING PLAN

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

DATE _____ DRAWN BY _____
CHECKED BY _____

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|-----------|---------------------------|--------------|-----------|
| 531 | 40 X-RS-8 | WILL | 18 | 12 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT | | |



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE FULL DEPTH PATCHES
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

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

| REVISIONS | |
|-----------|----------|
| NAME | DATE |
| R. SHAH | 10/25/94 |
| R. SHAH | 01/14/95 |
| R. SHAH | 03/23/95 |
| R. SHAH | 04/24/95 |
| A. HOUSEH | 03/15/96 |
| A. ABBAS | 03/21/97 |
| A. ABBAS | 01/20/98 |
| ART ABBAS | 04/27/98 |
| R. BORO | 01/01/07 |

ILLINOIS DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

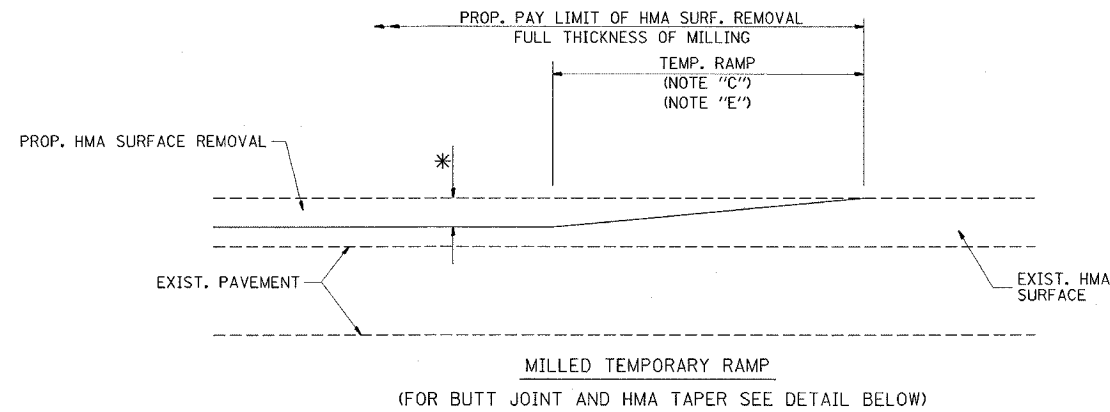
SCALE: VERT. NONE
HORIZ. NONE

DRAWN BY

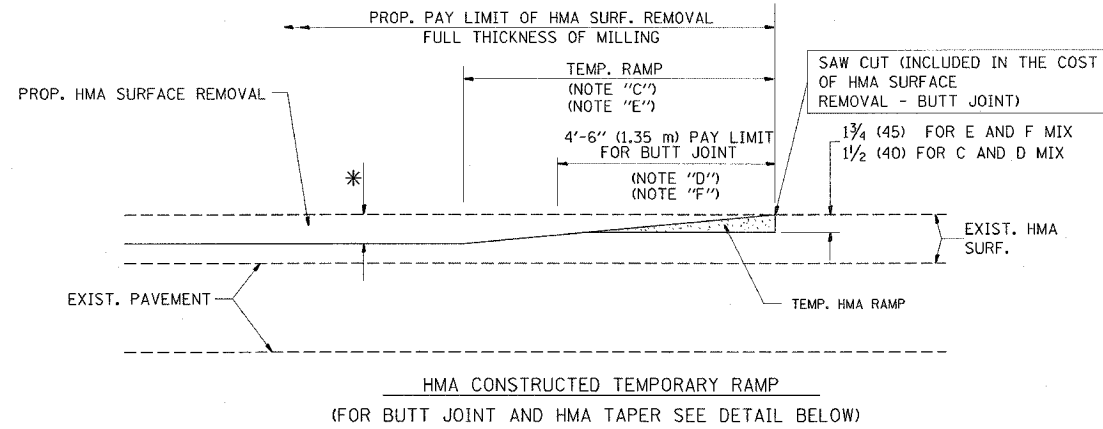
CHECKED BY

BD400-04 (BD-22)

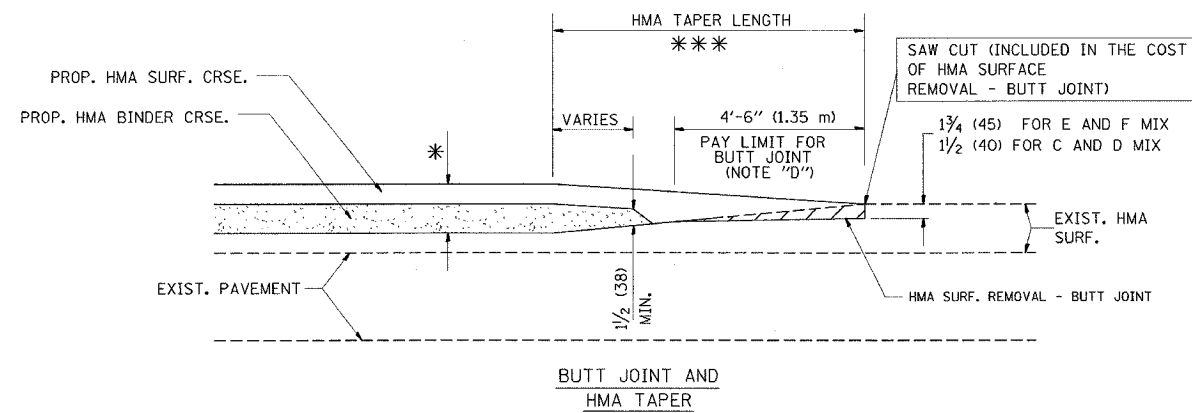
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-----------------------|-----------|---------------------------|--------------|-----------|
| 531 | 40 X-RS-8 | WILL | 18 | 13 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. 1 | | ILLINOIS FED. AID PROJECT | | |



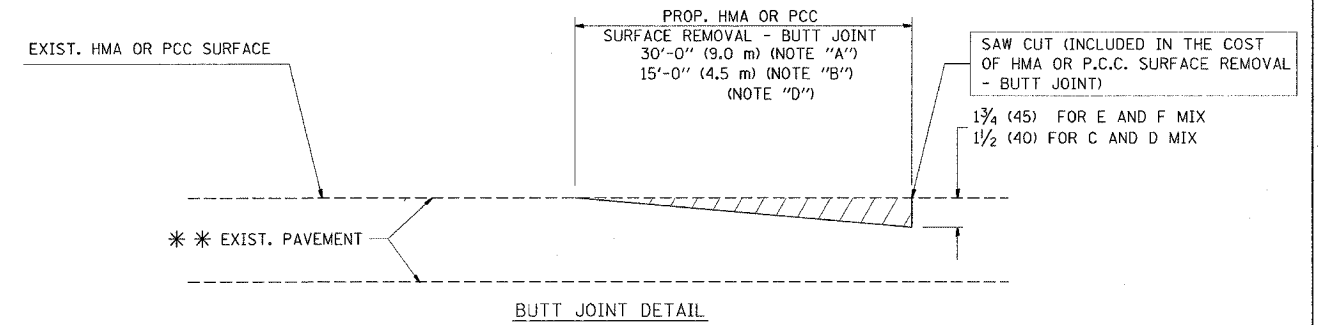
OPTION 1



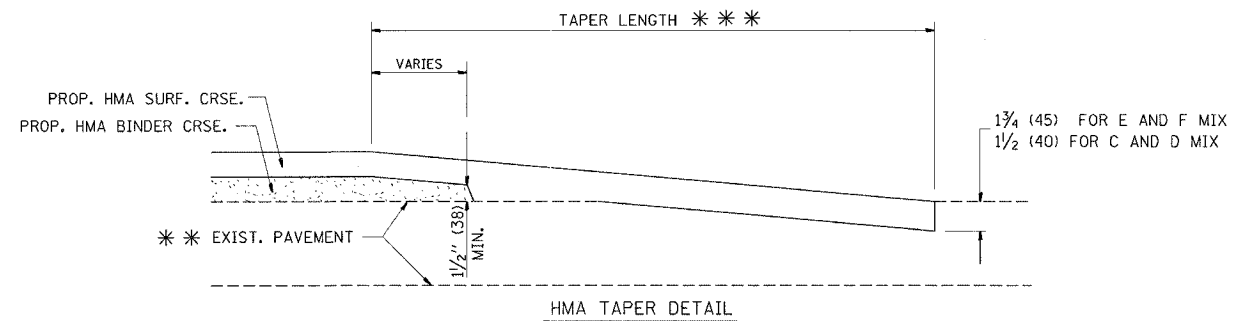
OPTION 2
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

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")

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

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".

| REVISIONS | |
|------------|----------|
| NAME | DATE |
| M. DE YONG | 6-13-90 |
| M. DE YONG | 7-3-90 |
| M. DE YONG | 3-27-92 |
| R. SHAH | 09/09/94 |
| R. SHAH | 10/25/94 |
| A. ABBAS | 03/21/97 |
| M. GOMEZ | 04/06/01 |
| R. BORO | 01/01/07 |

ILLINOIS DEPARTMENT OF TRANSPORTATION

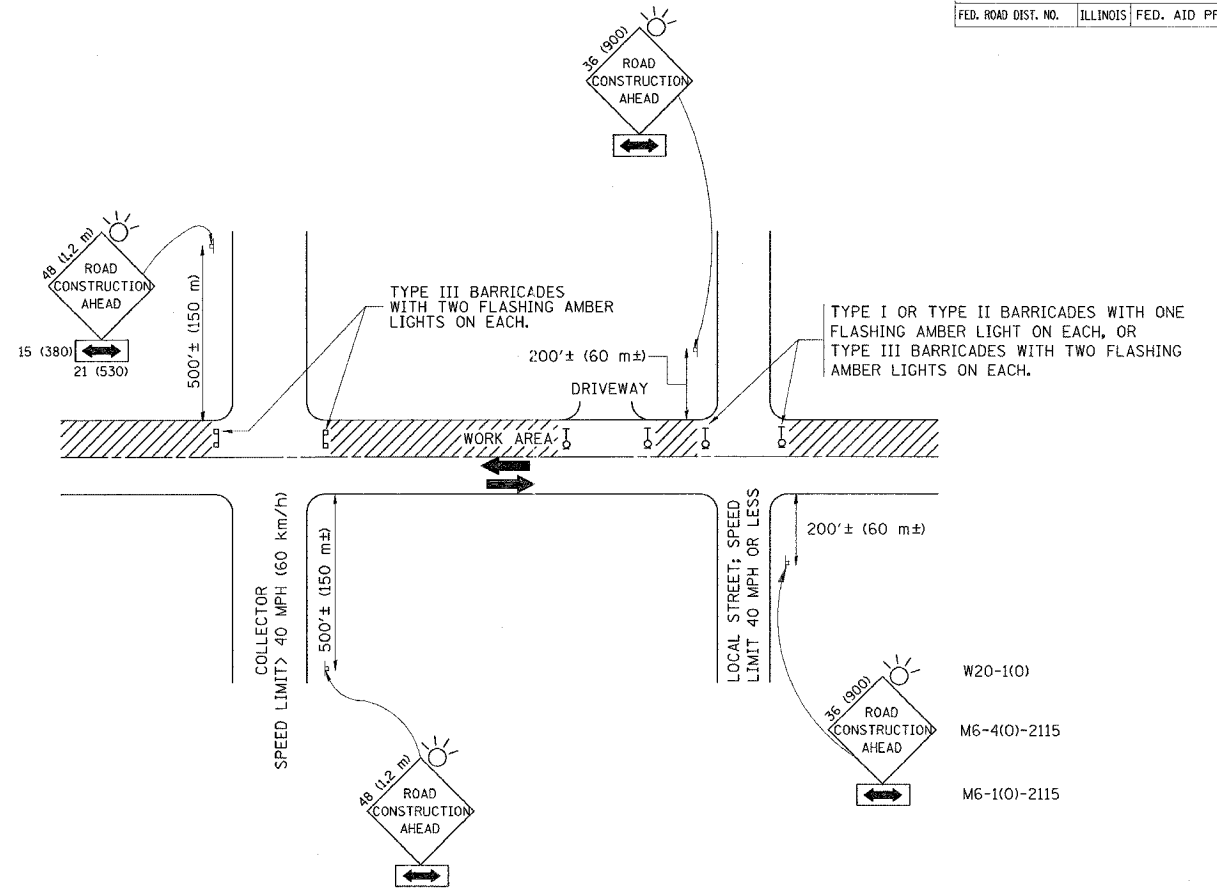
BUTT JOINT AND
HMA TAPER
DETAILS

SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

BD400-05 (VI=BD32)

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|------------------|--------------|-----------|
| 531 | 40 X-RS-8 | WILL | 18 | 14 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.

3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:

USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD). THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

| REVISIONS | |
|--------------|----------|
| NAME | DATE |
| LHA | 6/89 |
| T. RAMMACHER | 09/08/94 |
| J. OBERLE | 10/18/95 |
| A. HOUSEH | 03/06/96 |
| A. HOUSEH | 10/15/96 |
| T. RAMMACHER | 01/06/00 |

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC CONTROL AND PROTECTION
 FOR
 SIDE ROADS, INTERSECTIONS, AND
 DRIVEWAYS

SCALE: NONE

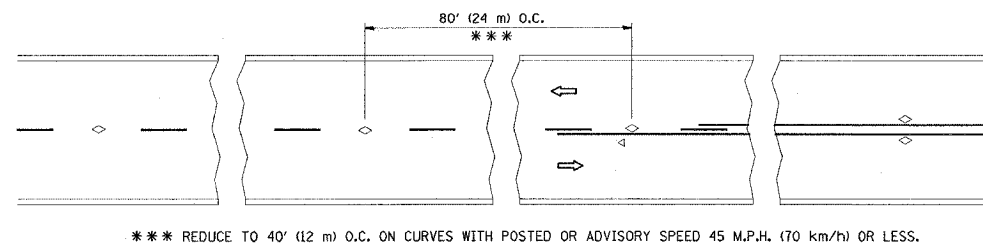
DRAWN BY

CHECKED BY

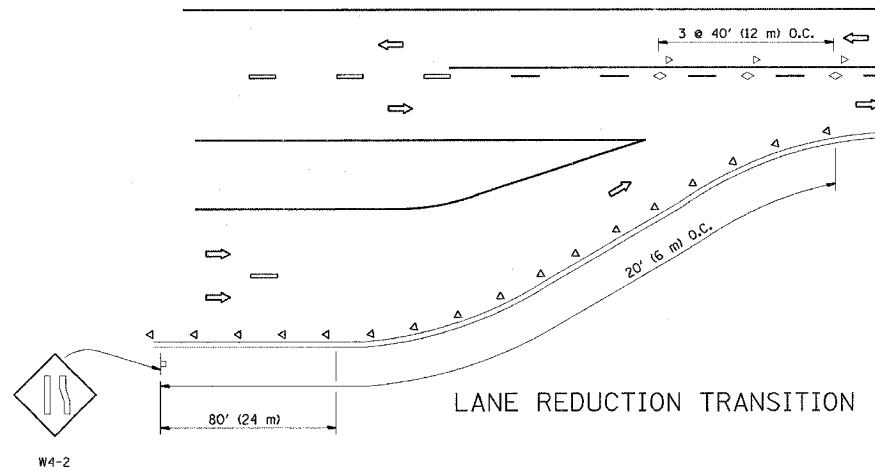
TC-10

PLOT DATE = 4/12/2007
 FILE NAME = \\v:\projects\2007\40xrs\wgrendp\desktop\td18.dgn
 PLOT SCALE = 500/800 / IN.
 USER NAME = wgrendp

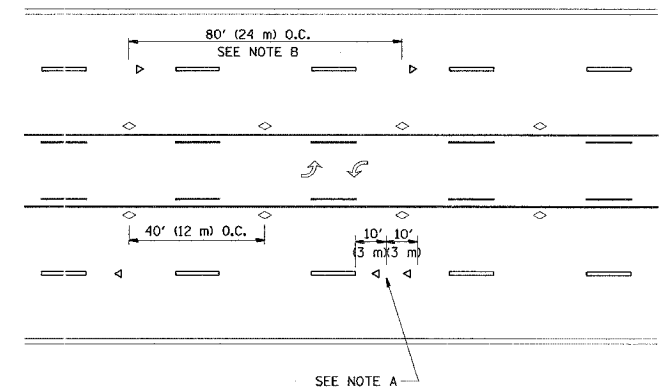
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|------------------|--------------|-----------|
| 531 | 40 X-RS-8 | WILL | 18 | 15 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | |



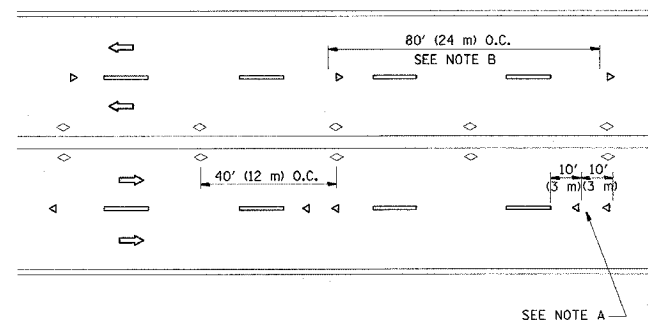
TWO-LANE/TWO-WAY



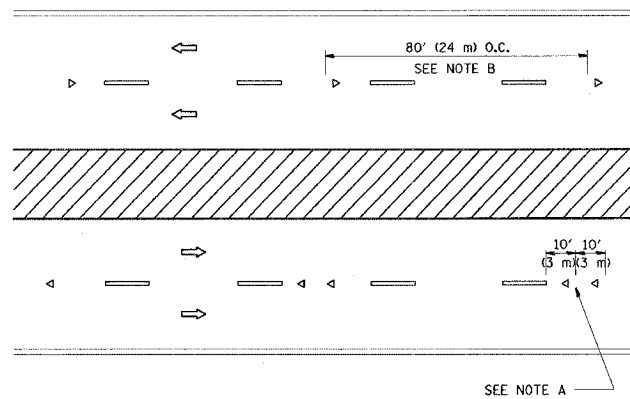
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

1. MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

SYMBOLS

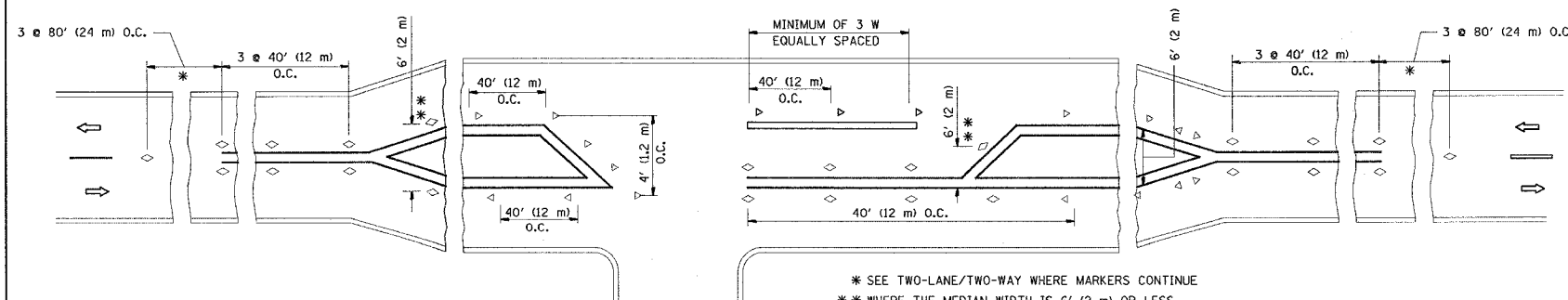
- YELLOW STRIPE
- WHITE STRIPE
- ◁ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◊ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



LEFT TURN

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

| REVISIONS | |
|--------------|----------|
| NAME | DATE |
| T. RAMMACHER | 09-19-94 |
| T. RAMMACHER | 03-12-99 |
| T. RAMMACHER | 01-06-00 |
| | |
| | |
| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT
MARKERS (SNOW-PLOW RESISTANT)

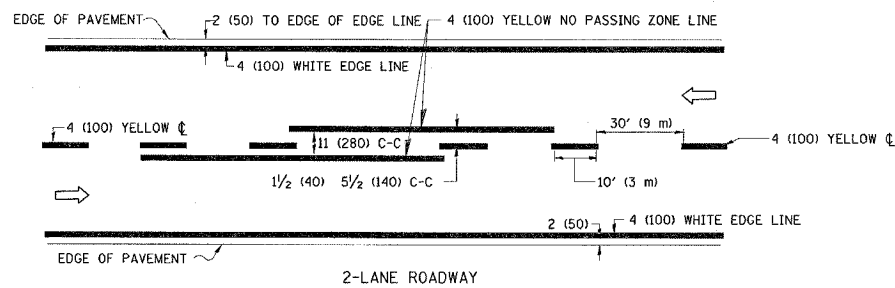
SCALE: NONE

DRAWN BY CADD

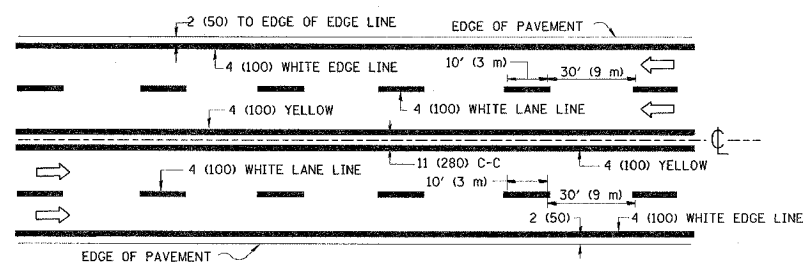
CHECKED BY

TC-11

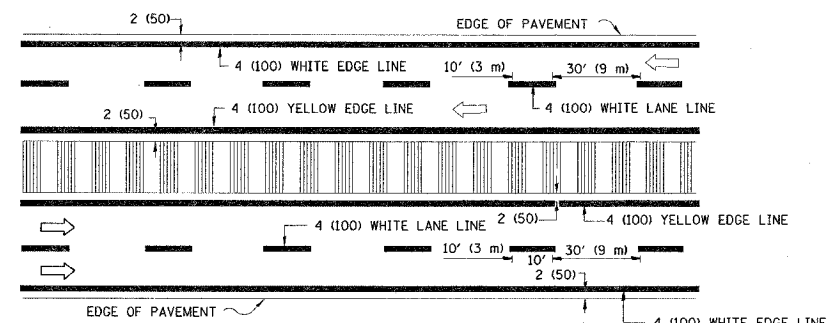
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|---------------------------|--------------|-----------|
| 531 | 40 X-RS-8 | WILL | 18 | 16 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |



2-LANE ROADWAY



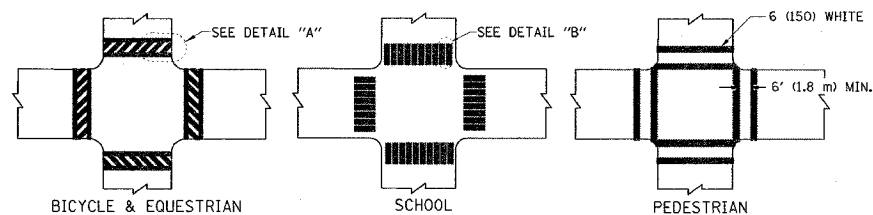
MULTI-LANE UNDIVIDED



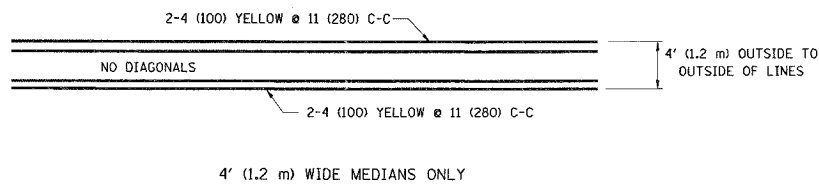
MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

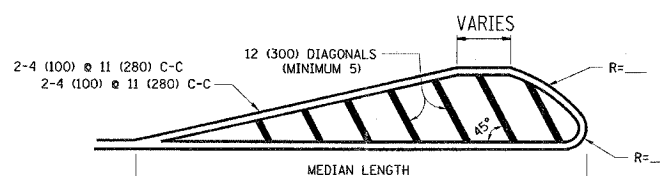
TYPICAL LANE AND EDGE LINE MARKING



TYPICAL CROSSWALK MARKING



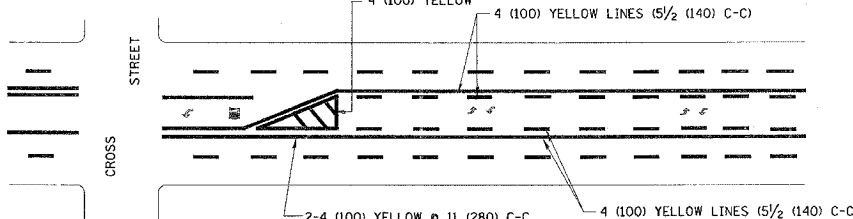
4' (1.2 m) WIDE MEDIANS ONLY



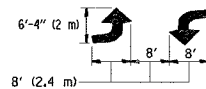
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

MEDIANS OVER 4' (1.2 m) WIDE

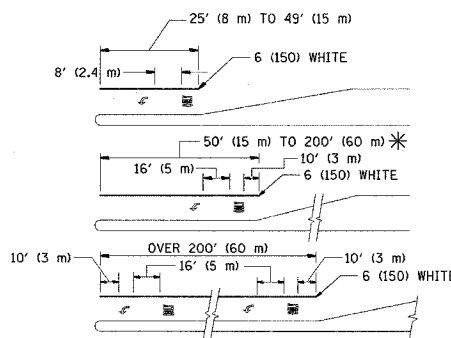


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

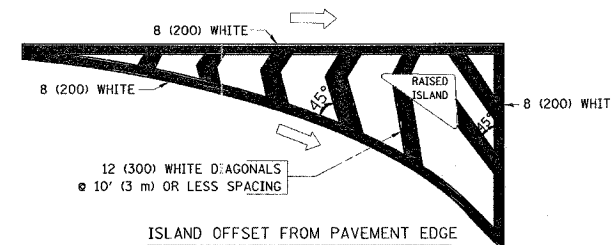


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

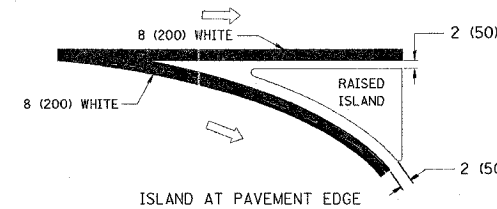
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING



ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE

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 | 4 (100) | SOLID | YELLOW | 5/2 (140) C-C FROM SKIP-DASH CENTERLINE |
| NO PASSING ZONE LINES: FOR BOTH DIRECTIONS | 2 @ 4 (100) | SOLID | YELLOW | 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100) | SKIP-DASH | WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| LANE LINES | 5 (125) ON FREEWAYS | SKIP-DASH | WHITE | |
| 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 | SKIP-DASH AND SOLID | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE |
| TWO WAY LEFT TURN MARKING | 8' (2.4m) LEFT ARROW | IN PAIRS | WHITE | 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 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. |
| GORE 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" IS 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.

| REVISIONS | |
|--------------|----------|
| NAME | DATE |
| EVERS | 03-19-90 |
| T. RAMMACHER | 10-27-94 |
| ALEX HOUSEH | 10-09-96 |
| ALEX HOUSEH | 10-17-96 |
| T. RAMMACHER | 01-06-00 |
| | |
| | |
| | |
| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT
MARKINGS

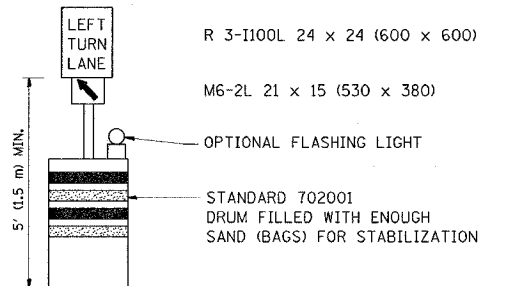
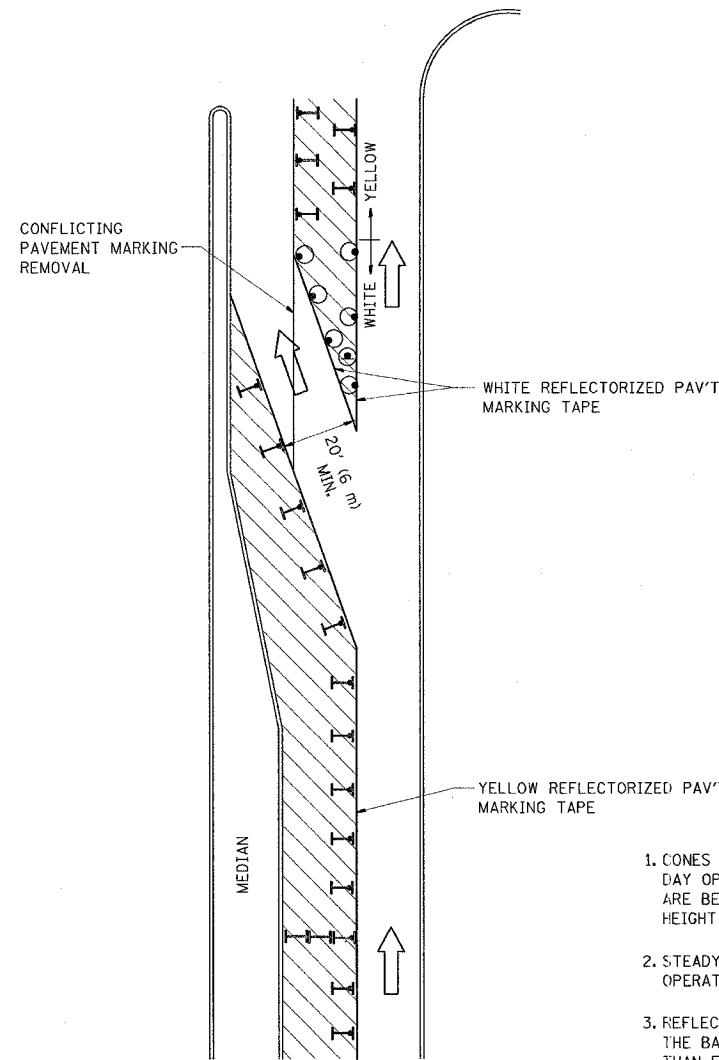
SCALE: NONE

DRAWN BY CADD

CHECKED BY

TC-13

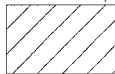





| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|----------|------------------|-----------|
| 531 | 40 X-RS-8 | WILL | 18 | 17 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS | FED. AID PROJECT | |



GENERAL NOTES

1. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT. WHEN CONES ARE BEING USED, THE "LEFT TURN LANE" SIGN MAY BE SKID MOUNTED AT A MINIMUM HEIGHT OF 5' (1.5 m).
2. STEADY BURNING LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
3. REFLECTORIZED TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE BARRICADED AREA OF EACH TURN BAY WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS.
4. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-100 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
5. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
6. LONGITUDINAL DIMENSIONS MAY BE ADJUSTED TO FIT FIELD CONDITIONS.
7. FORM BT 725 IS REQUIRED.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

LEGEND

-  WORK AREA
-  LANE OPEN TO TRAFFIC
-  TYPE I OR II BARRICADE WITH STEADY BURN LIGHT
-  DRUM WITH STEADY BURN LIGHT
-  DRUM WITH SIGN (WITH OPTIONAL FLASHING LIGHT) SEE DETAIL
-  TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

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

| REVISIONS | |
|--------------|----------|
| NAME | DATE |
| T. RAMMACHER | 09/08/94 |
| A. HOUSEH | 11/07/95 |
| A. HOUSEH | 10/12/96 |
| T. RAMMACHER | 01/06/00 |
| | |
| | |
| | |
| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
**TRAFFIC CONTROL AND PROTECTION
 AT TURN BAYS
 (TO REMAIN OPEN TO TRAFFIC)**

SCALE: NONE

DRAWN BY
 CHECKED BY LHA

PLOT DATE = 4/12/2007
 FILE NAME = \\dustin\fr2\users\wilgreen\p\dsktop\tdc14.dgn
 PLOT SCALE = 80.0000 / IN.
 USER NAME = wilgreen

