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|---------------------|------------|--------------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 305 | 2007-048 I | MCHENRY | 19 | 1 |
| FED. ROAD DIST. NO. | ILLINOIS | CONTRACT NO. 60D38 | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PROPOSED HIGHWAY PLANS

F.A.P. ROUTE 305: US 14
IL 47 TO IL 176

SECTION: 2007-048 I

SHOULDER WIDENING AND RUMBLE STRIP INSTALLATION

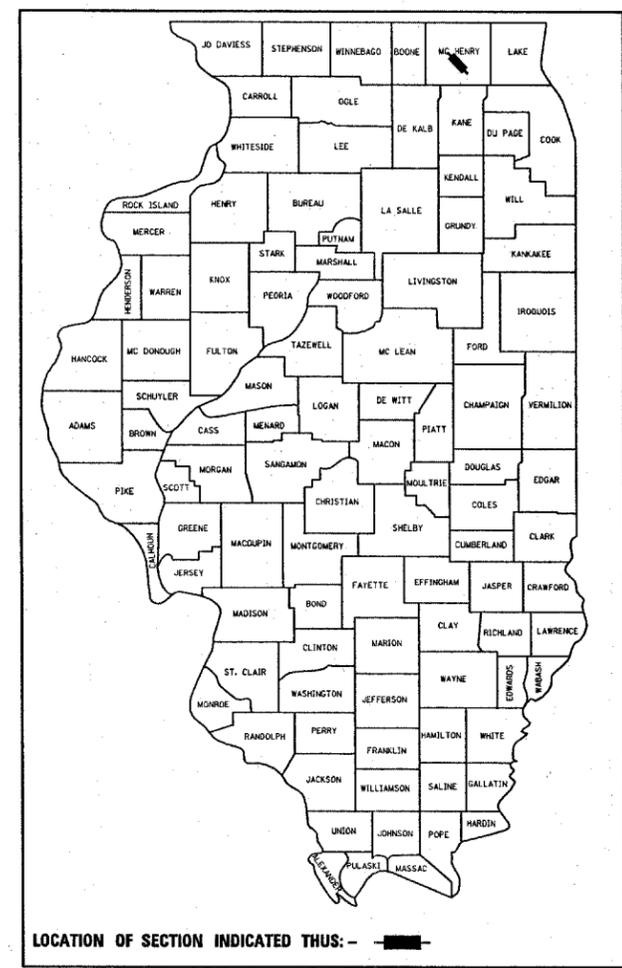
PROJECT: ACHSIP-0305(039)

MCHENRY COUNTY

C-91-010-08

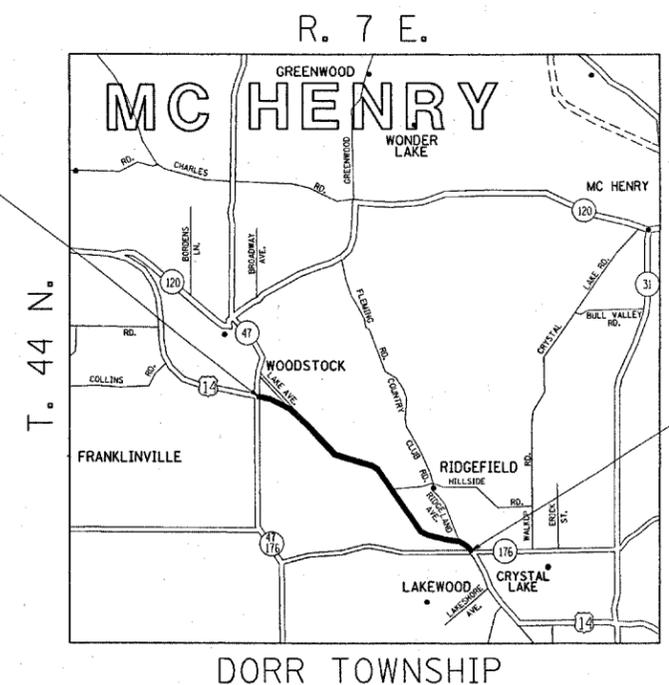
FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROJECT LOCATED IN THE CITIES OF CRYSTAL LAKE AND WOODSTOCK

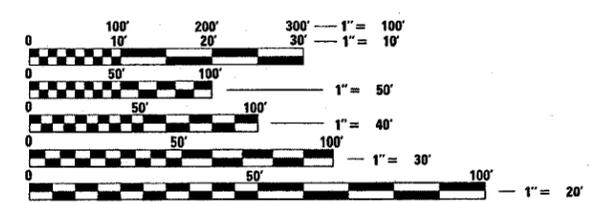


PROJECT BEGINS
STA. 11+97

TRAFFIC DATA
2005 ADT = 19,300
POSTED SPEED = 45-50 MPH



PROJECT ENDS
306+30



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

GROSS & NET LENGTH OF PROJECT = 29,433 FEET = 5.6 MILES

PROJECT ENGINEER: J.P. CHANG (847) 705-4432
PLAN PREPARATION ENGINEER: KEN ENG

CONTRACT NO. 60D38

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED Dec. 20 20 07

Diane O'Keefe
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

February 1, 20 08
Eric E. Harn
INTERIM ENGINEER OF DESIGN AND ENVIRONMENT

February 1, 20 08
Christine M. Reed
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

| <u>SHEET NO.</u> | <u>DESCRIPTION</u> |
|------------------|---|
| 1 | TITLE SHEET |
| 2 | INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES. |
| 3 | SUMMARY OF QUANTITIES |
| 4-5 | EXISTING AND PROPOSED TYPICAL SECTIONS |
| 6-16 | EXISTING AND PROPOSED ROADWAY PLAN |
| 17 | PROPOSED FLASHER INSTALLATION PLAN |
| 18 | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAY |
| 19 | ARTERIAL ROAD INFORMATION SIGN |

GENERAL NOTES

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND MCHENRY COUNTY.

THE CONTRACTOR WILL NOT BE ABLE TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.

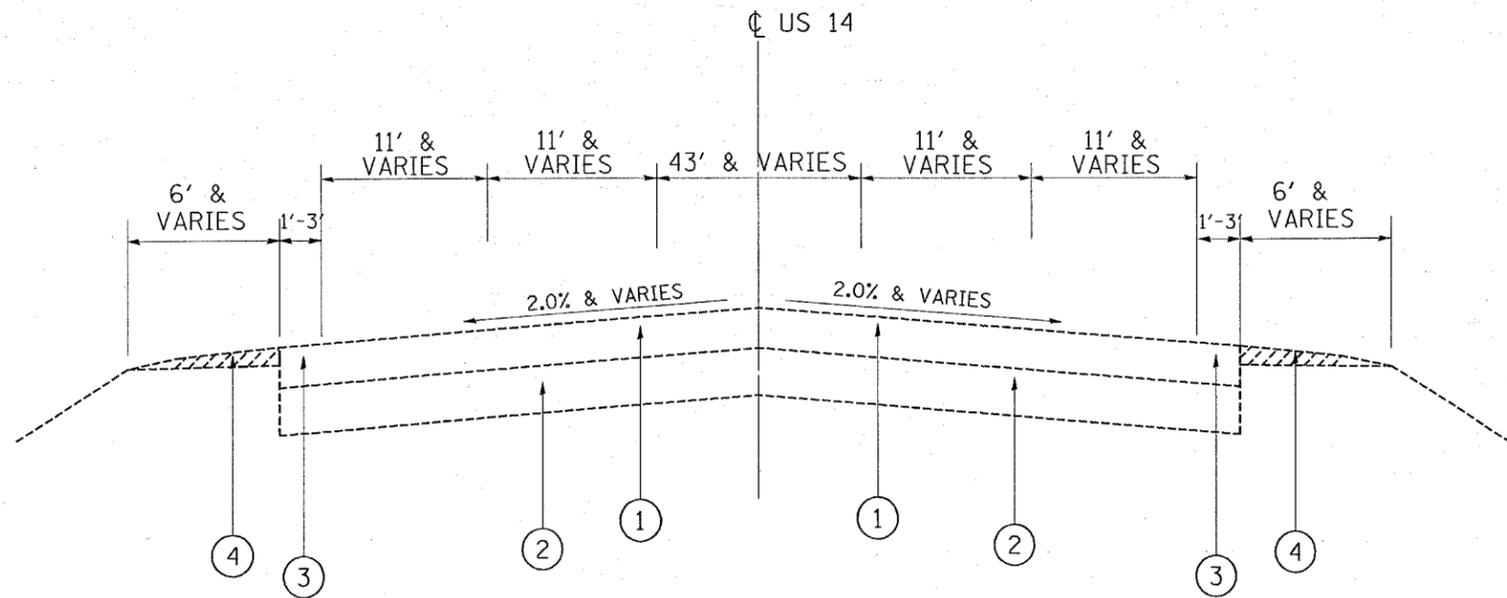
THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE INSTALLATION OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

STATE STANDARDS

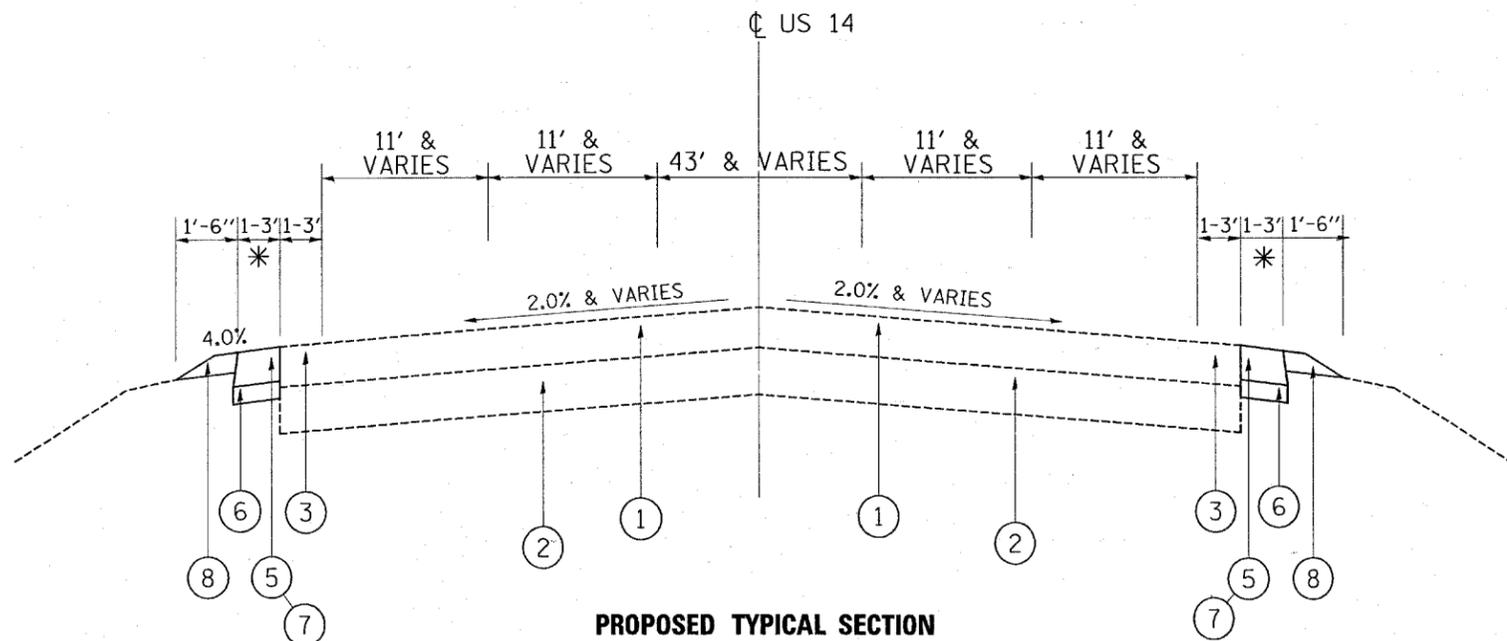
| <u>STANDARD NO.</u> | <u>DESCRIPTION</u> |
|---------------------|--|
| 000001-05 | TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 482001-02 | HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT |
| 642001 | SHOULDER RUMBLE STRIPS |
| 701006-02 | OFF-RD. OPERATIONS, 2L, 2W, 15' TO PAVEMENT EDGE |
| 701201-02 | LANE CLOSURE, 2L, 2W, DAY ONLY |
| 701306-01 | LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS, DAY ONLY |
| 701311-02 | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS, DAY ONLY |
| 701901 | TRAFFIC CONTROL DEVICES |

| | | | | | | | | | | |
|------------------------------------|-------------------|------------|-----------|---|---|-------------------|--------------------------|---------|--------------|-----------------------|
| FILE NAME * | USER NAME * smthk | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | INDEX OF SHEETS, STATE STANDARDS AND GENERAL NOTES | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| es:\projects\dl01000\design.ea.dgn | | DRAWN - | REVISED - | | | 305 | 2007-048 I | MCHENRY | 19 | 2 |
| PLDT SCALE = 52.9397' / IN. | | CHECKED - | REVISED - | | | CONTRACT NO 60D38 | | | | |
| PLDT DATE = 12/27/2007 | | DATE - | REVISED - | | | SCALE: | SHEET NO. 2 OF 21 SHEETS | STA. | TO STA. | FED. ROAD DIST. NO. 1 |

12/27/2007 12:50:00 PM



**EXISTING TYPICAL SECTION
US 14
STA. 11+97 TO 65+35**



**PROPOSED TYPICAL SECTION
US 14
STA. 11+97 TO 65+35**

LEGEND

- ① EXIST. HOT-MIX ASPHALT PAVEMENT, 8''(±)
- ② EXIST. P.C.C. BASE COURSE, 9''(±)
- ③ EXIST. HOT-MIX ASPHALT SAFETY SHOULDER
- ④ EXIST. AGGREGATE SHOULDER (TO BE PARTIALLY REMOVED)
- ⑤ PROP. HOT-MIX ASPHALT SHOULDER, 8''
- ⑥ PROP. SUBBASE GRANULAR MATERIAL, TYPE C, 4''
- ⑦ PROP. SHOULDER RUMBLE STRIPS
- ⑧ PROP. AGGREGATE WEDGE SHOULDER, TYPE B

NOTES:

* NEW SHOULDER PLUS EXISTING SAFETY SHOULDER SHALL EQUAL 4'

RUMBLE STRIPS ARE TO BE PLACED ON NEW HMA SHOULDERS AND IN AREAS WHERE 4' (OR MORE) HMA SHOULDERS EXIST WITHIN THE PROJECT LIMITS.

SHOULDER RUMBLE STRIPS SHALL BE PLACED ACCORDING TO HIGHWAY STANDARD 642001

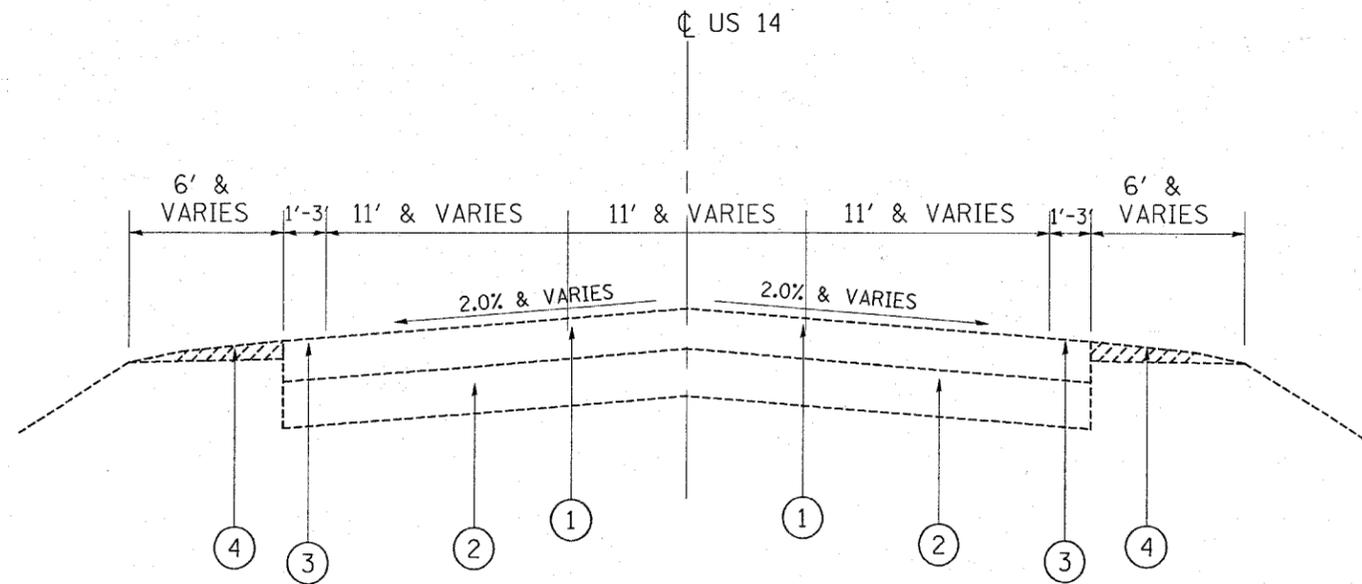
HOT-MIX ASPHALT MIXTURE REQUIREMENTS

| | MIXTURE USE | AC TYPE | AIR VOIDS (%) |
|-----------|--------------------------------|-----------|---------------|
| SHOULDERS | HOT-MIX ASPHALT SHOULDERS, 8'' | PG 64-22* | 2% @ 30 GYR |

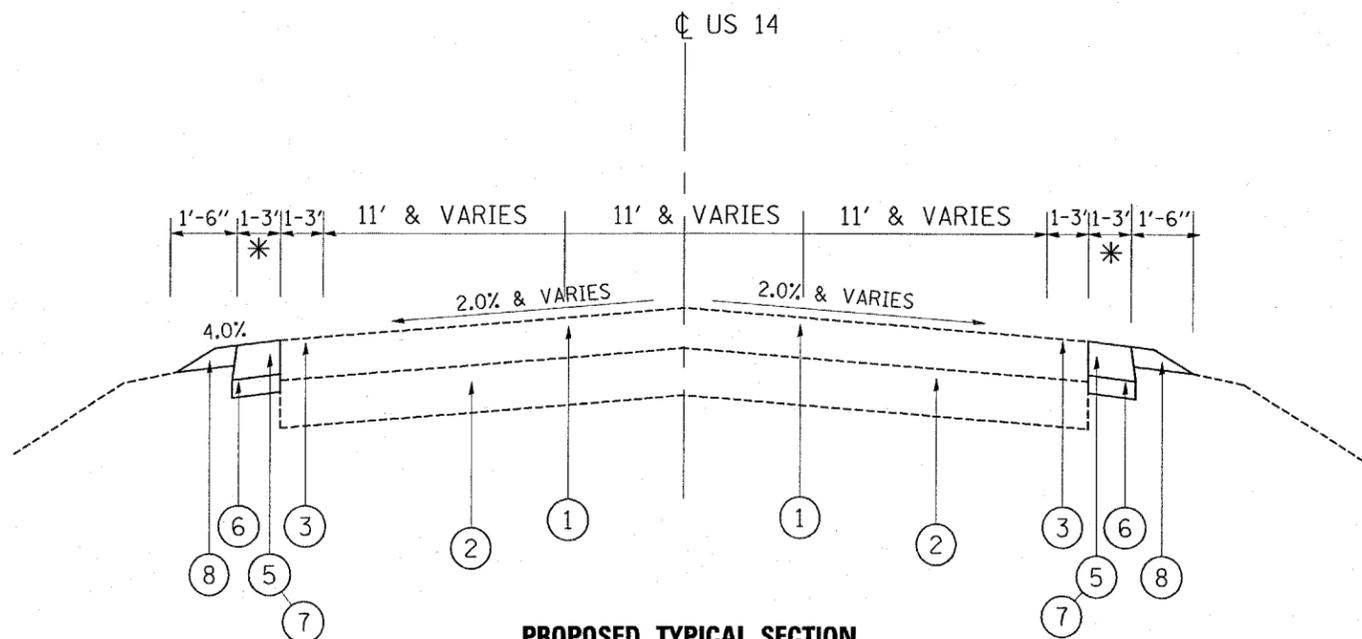
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SY/IN.

* WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22

| | | | | | | | | | | | |
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| | PLOT SCALE = 52.9397' / IN. | DRAWN - | REVISED - | | 305 | 2007-048 I | MCHENRY | 19 | 4 | | |
| | PLOT DATE = 12/27/2007 | CHECKED - | REVISED - | | CONTRACT NO. 60D38 | | | | | | |
| | DATE - | REVISED - | | SCALE: | SHEET NO. 4 OF 21 SHEETS | STA. TO STA. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



**EXISTING TYPICAL SECTION
US 14
STA. 65+35 TO 306+30**



**PROPOSED TYPICAL SECTION
US 14
STA. 65+35 TO 306+30**

LEGEND

- ① EXIST. HOT-MIX ASPHALT PAVEMENT, 8''(±)
- ② EXIST. P.C.C. BASE COURSE, 9''(±)
- ③ EXIST. HOT-MIX ASPHALT SAFETY SHOULDER
- ④ EXIST. AGGREGATE SHOULDER (TO BE PARTIALLY REMOVED)
- ⑤ PROP. HOT-MIX ASPHALT SHOULDER, 8''
- ⑥ PROP. SUBBASE GRANULAR MATERIAL, TYPE C, 4''
- ⑦ PROP. SHOULDER RUMBLE STRIPS
- ⑧ PROP. AGGREGATE WEDGE SHOULDER, TYPE B

NOTES:

* NEW SHOULDER PLUS EXISTING SAFETY SHOULDER SHALL EQUAL 4'

RUMBLE STRIPS ARE TO BE PLACED ON NEW HMA SHOULDERS AND IN AREAS WHERE 4' (OR MORE) HMA SHOULDERS EXIST WITHIN THE PROJECT LIMITS.

SHOULDER RUMBLE STRIPS SHALL BE PLACED ACCORDING TO HIGHWAY STANDARD 642001

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REVISED -

CHECKED -

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DATE -

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PLOT DATE = 12/27/2007

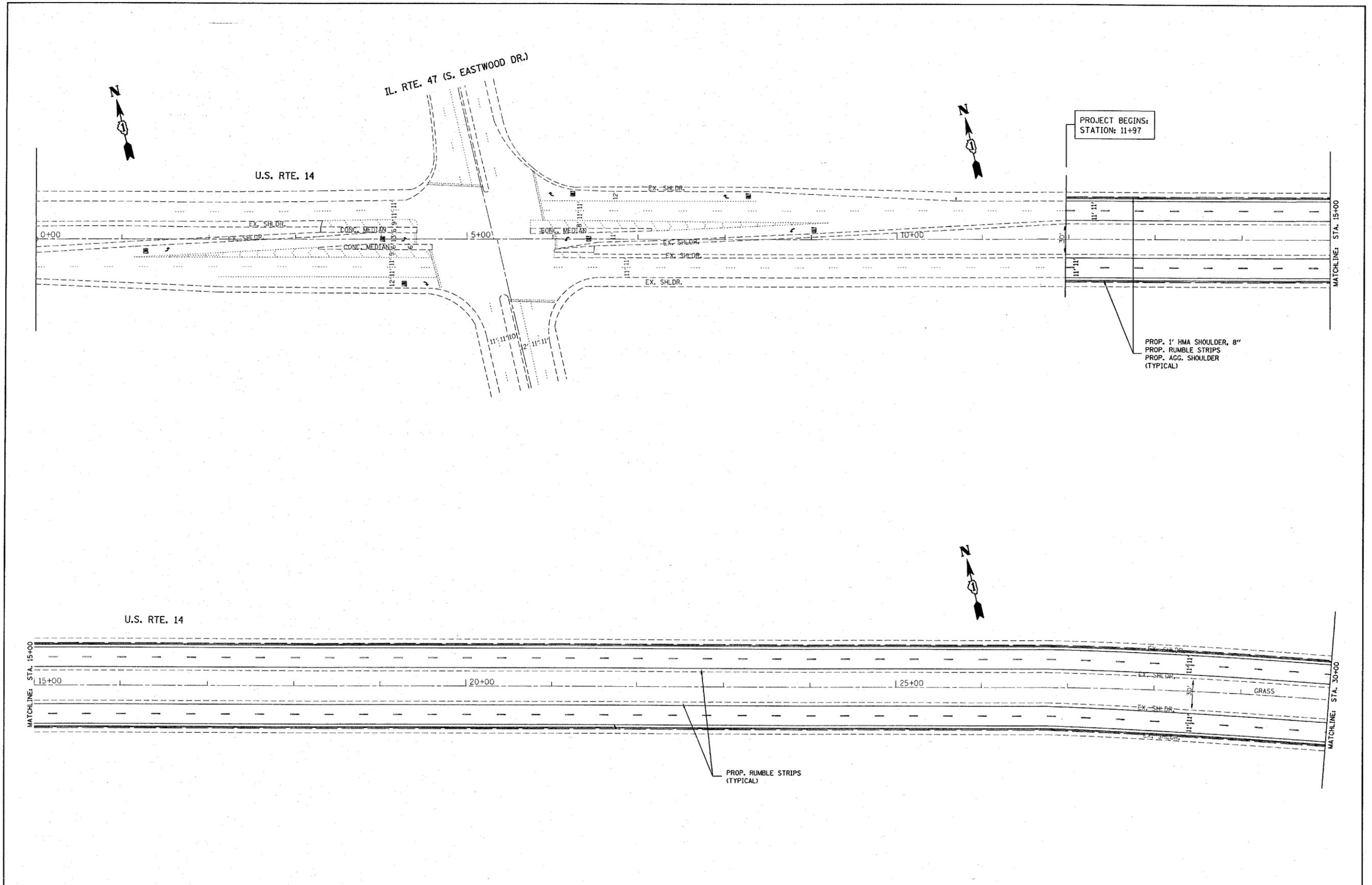
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED TYPICAL SECTION
US 14 (IL 23 TO WEST OF IL 120)**

SCALE: SHEET NO. 4 OF 21 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|------------|---------|--------------|-----------|
| 305 | 2007-048 I | MCHENRY | 19 | 5 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |
| CONTRACT NO. 60D38 | | | | |

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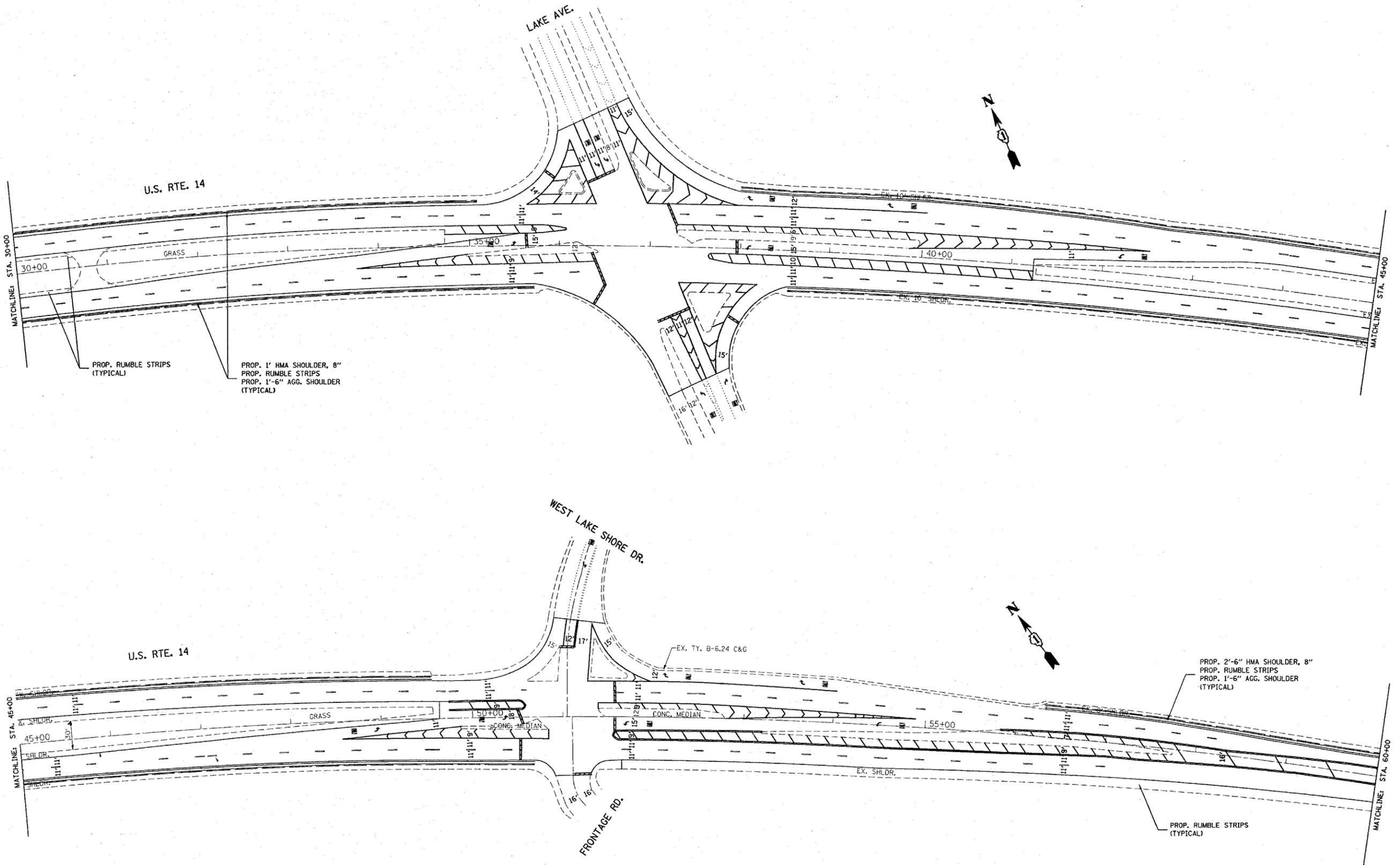
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| CHECKED - | REVISED - |
| DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|------------|---------|--------------|-----------|
| 305 | 2007-048 I | MCHENRY | 19 | 6 |
| CONTRACT NO. 60D38 | | | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

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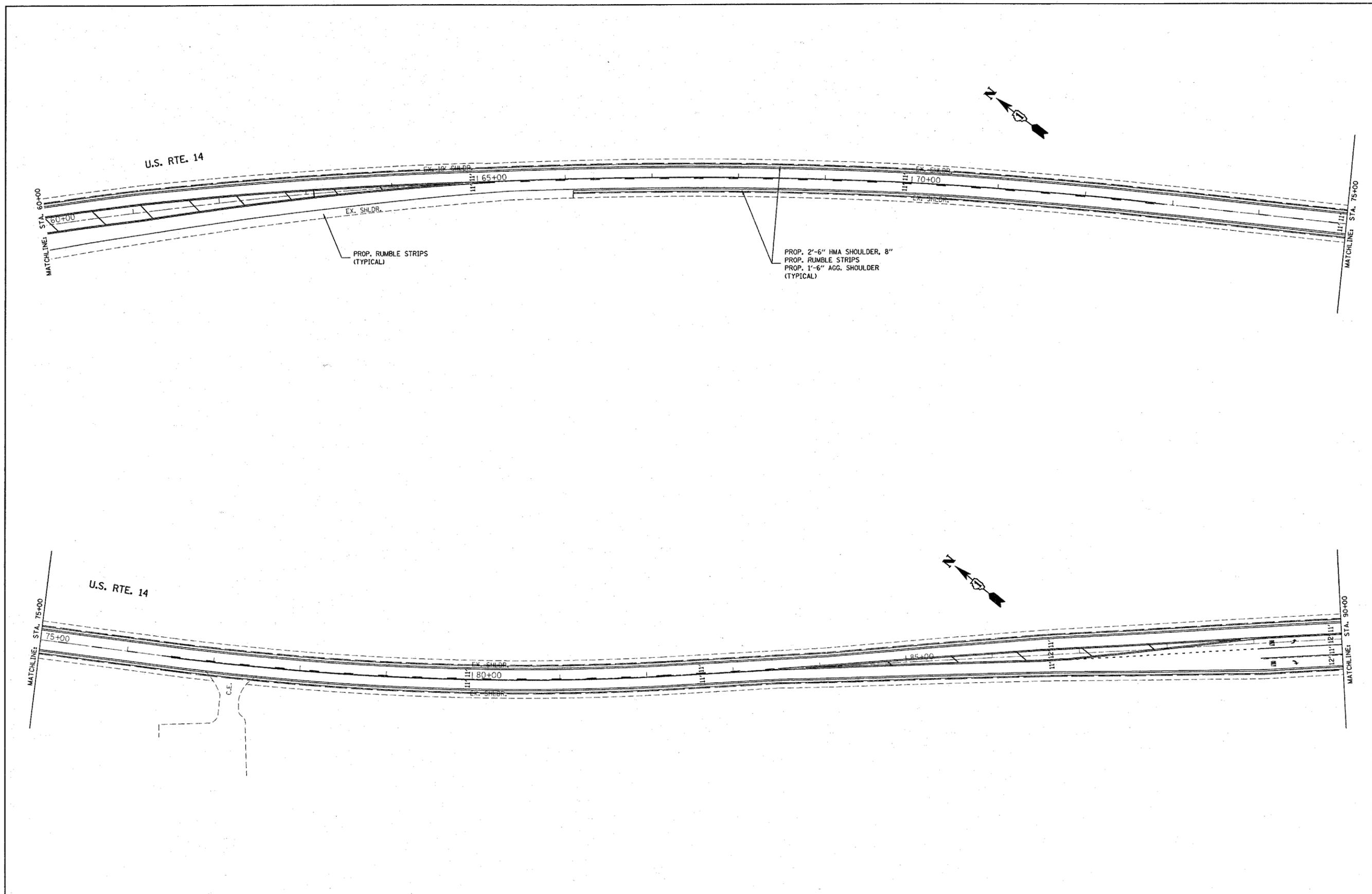
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
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| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |
| CONTRACT NO. 60D38 | | | | |

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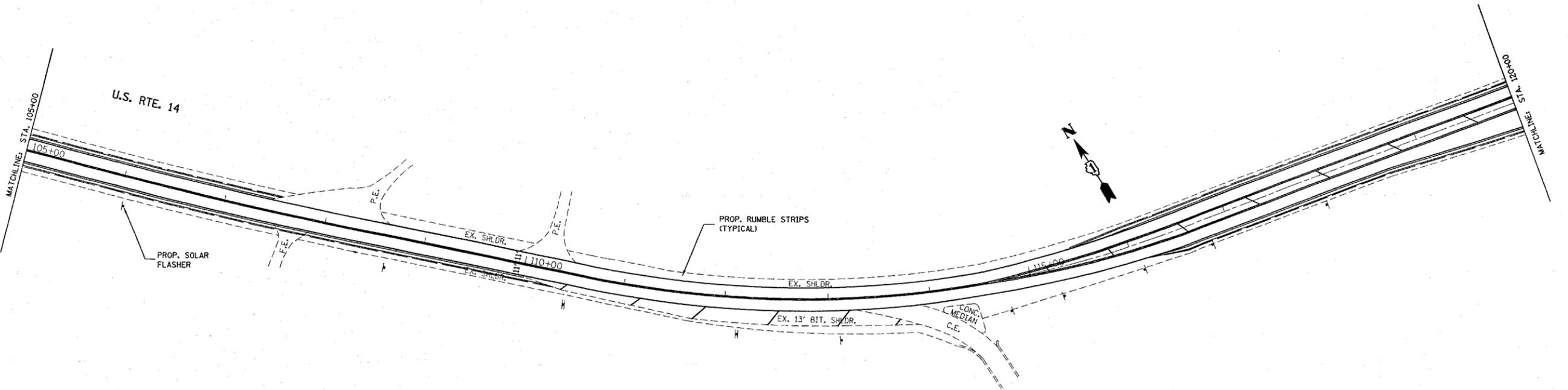
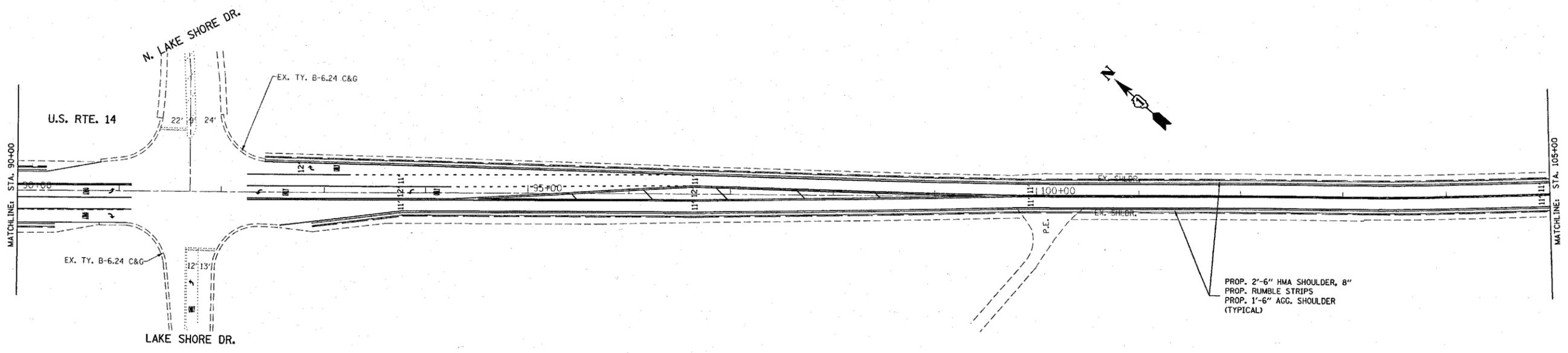
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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| SCALE: | SHEET NO. | OF | SHEETS | STA. | TO STA. |
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| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |
| CONTRACT NO. 60D38 | | | | |

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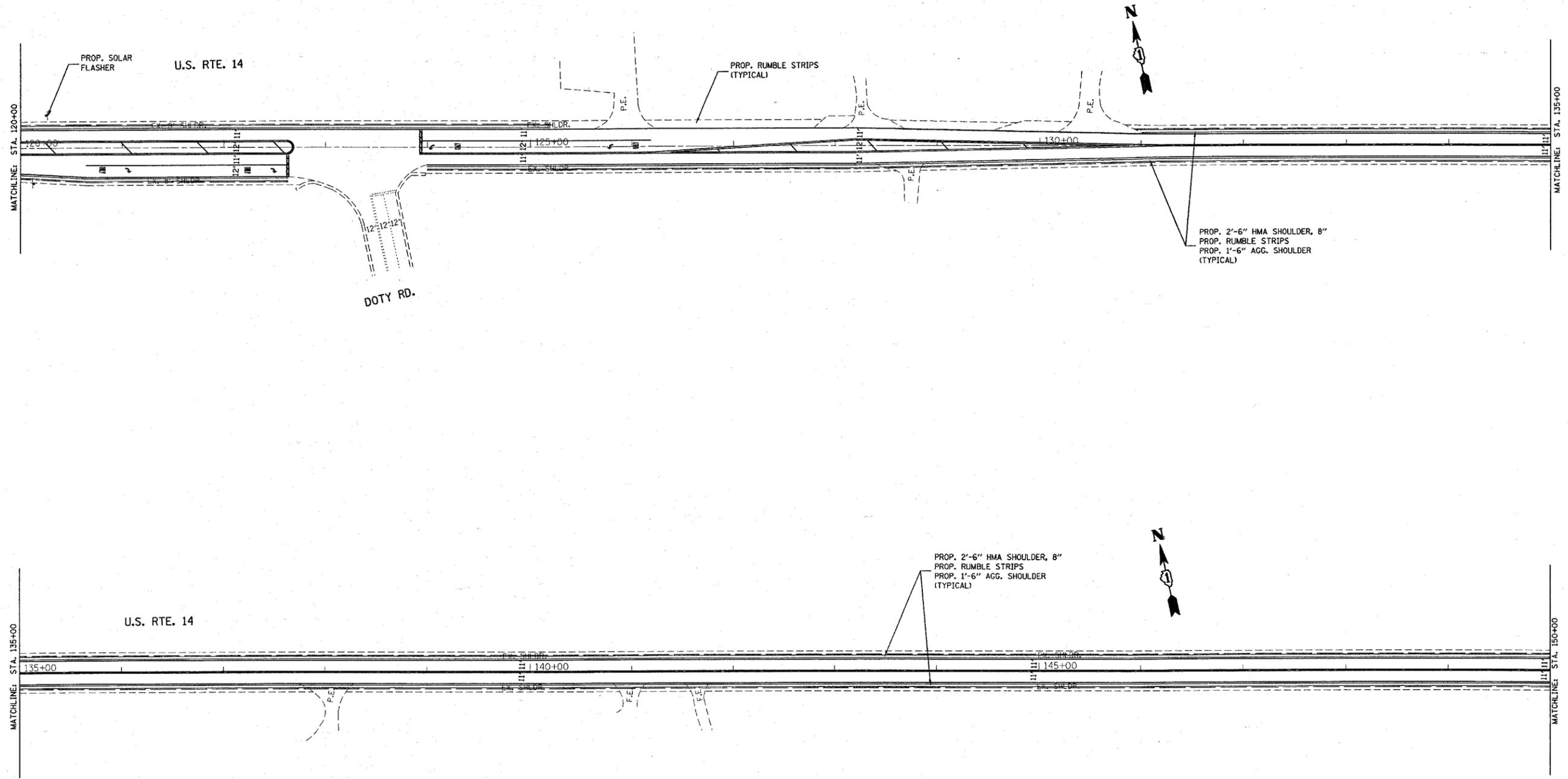
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| DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|------------|---------|--------------|-----------|
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| CONTRACT NO. 60D38 | | | | |
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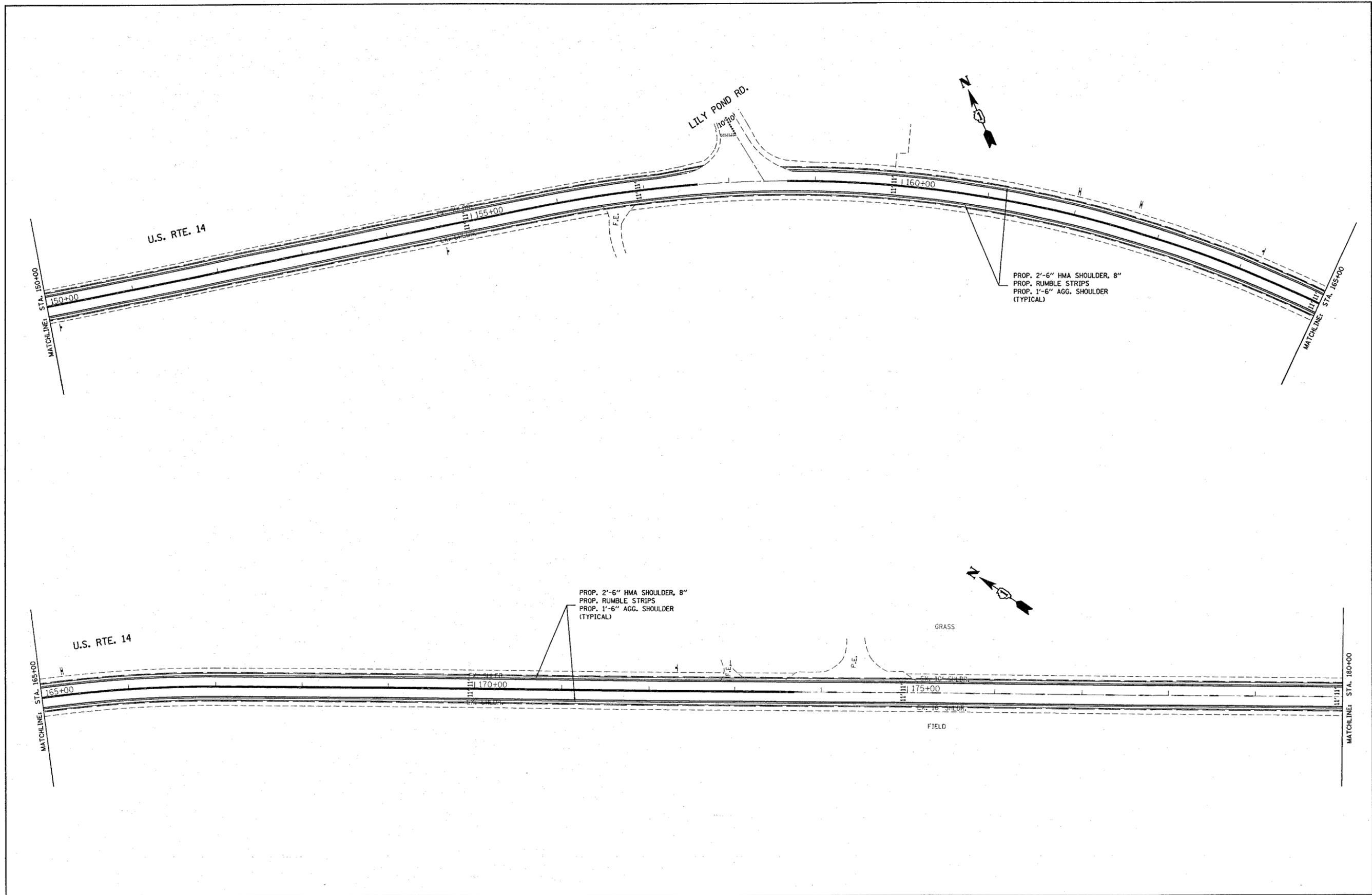
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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| SCALE: | SHEET NO. OF SHEETS | STA. TO STA. |
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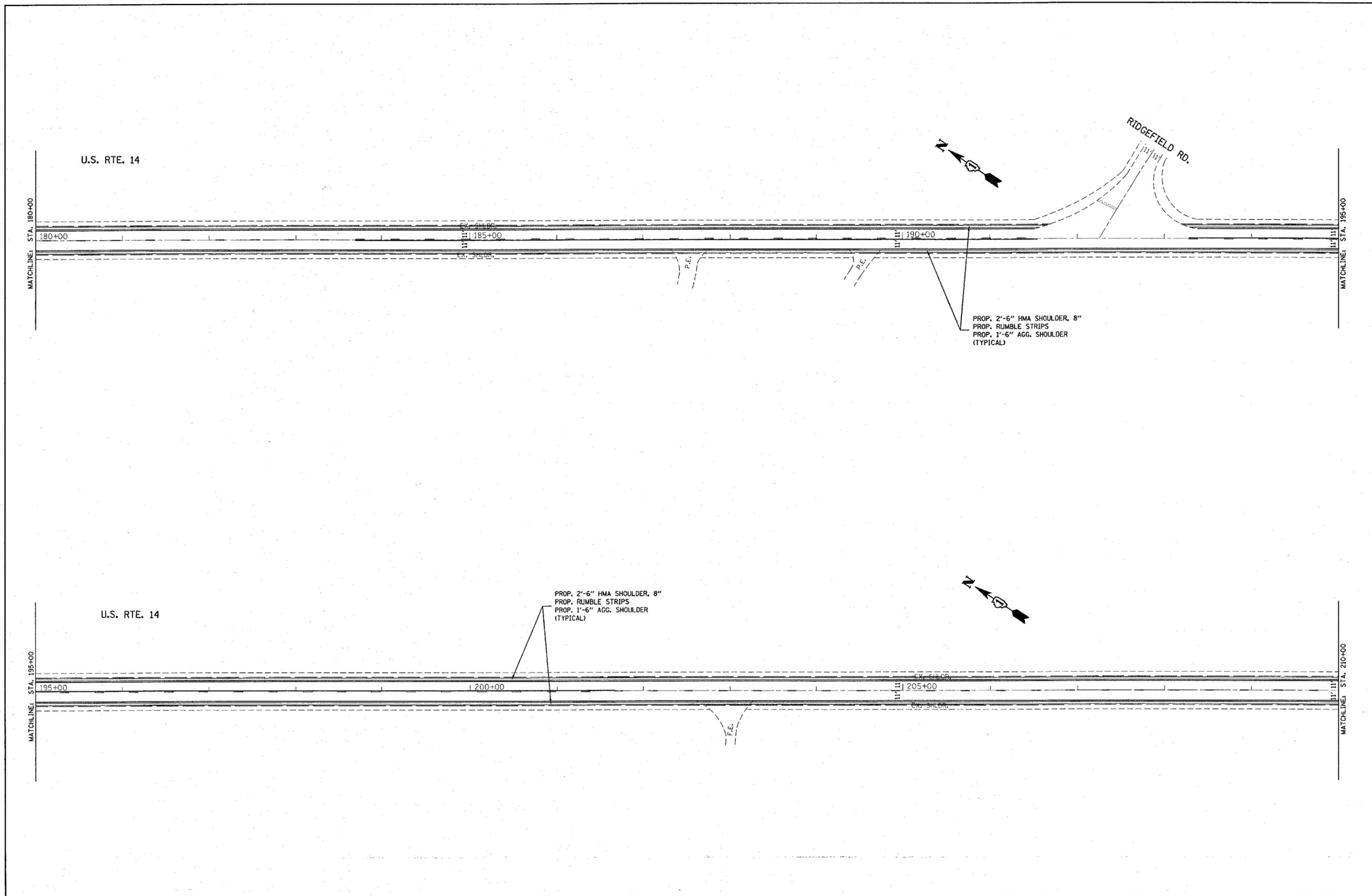
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

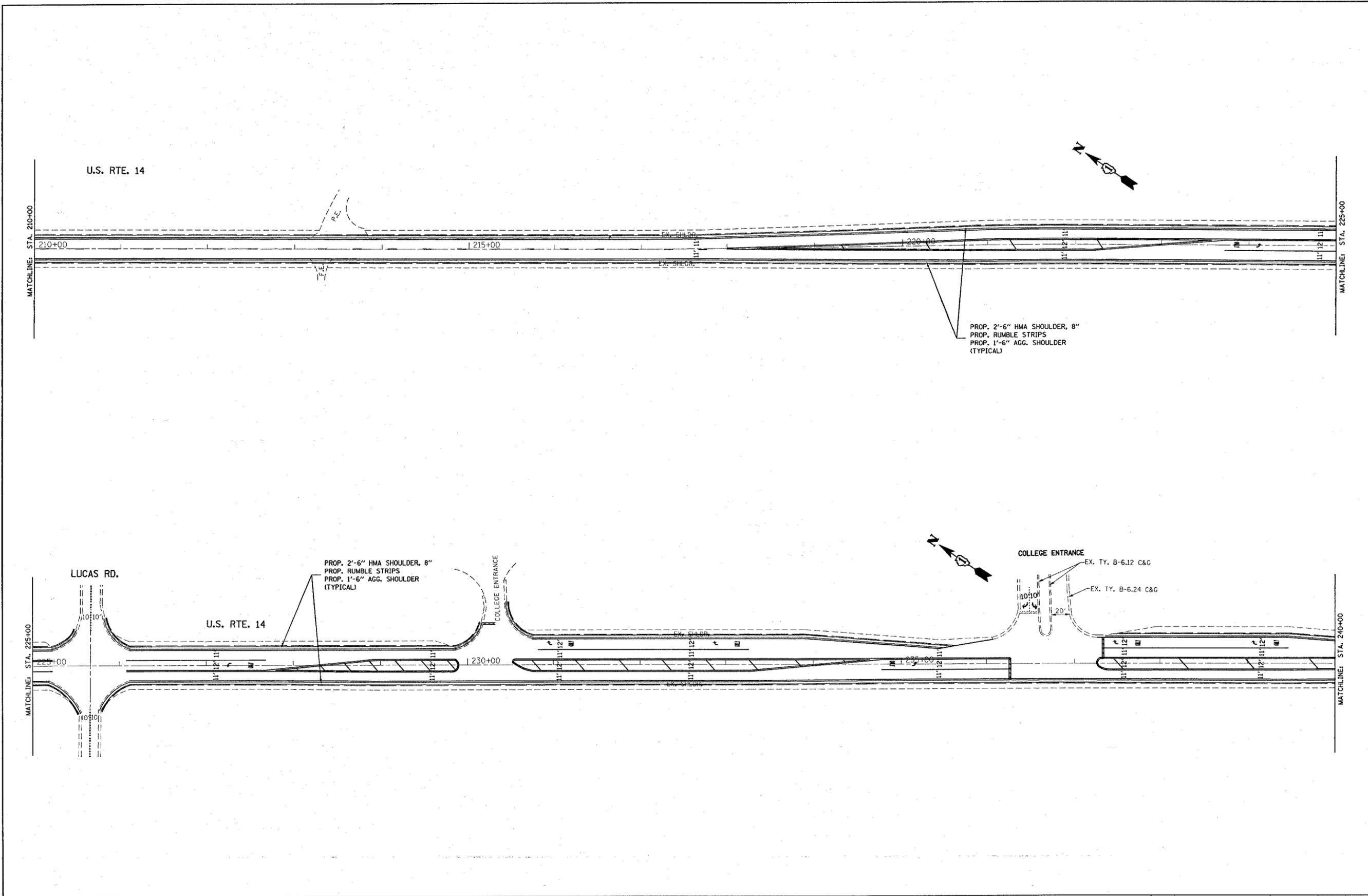
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| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |
| CONTRACT NO. 60D38 | | | | |

UPDATES TO THE ILLINOIS ROADWAY DESIGN MANUAL ARE AVAILABLE AT: <http://www.transportation.state.il.us>



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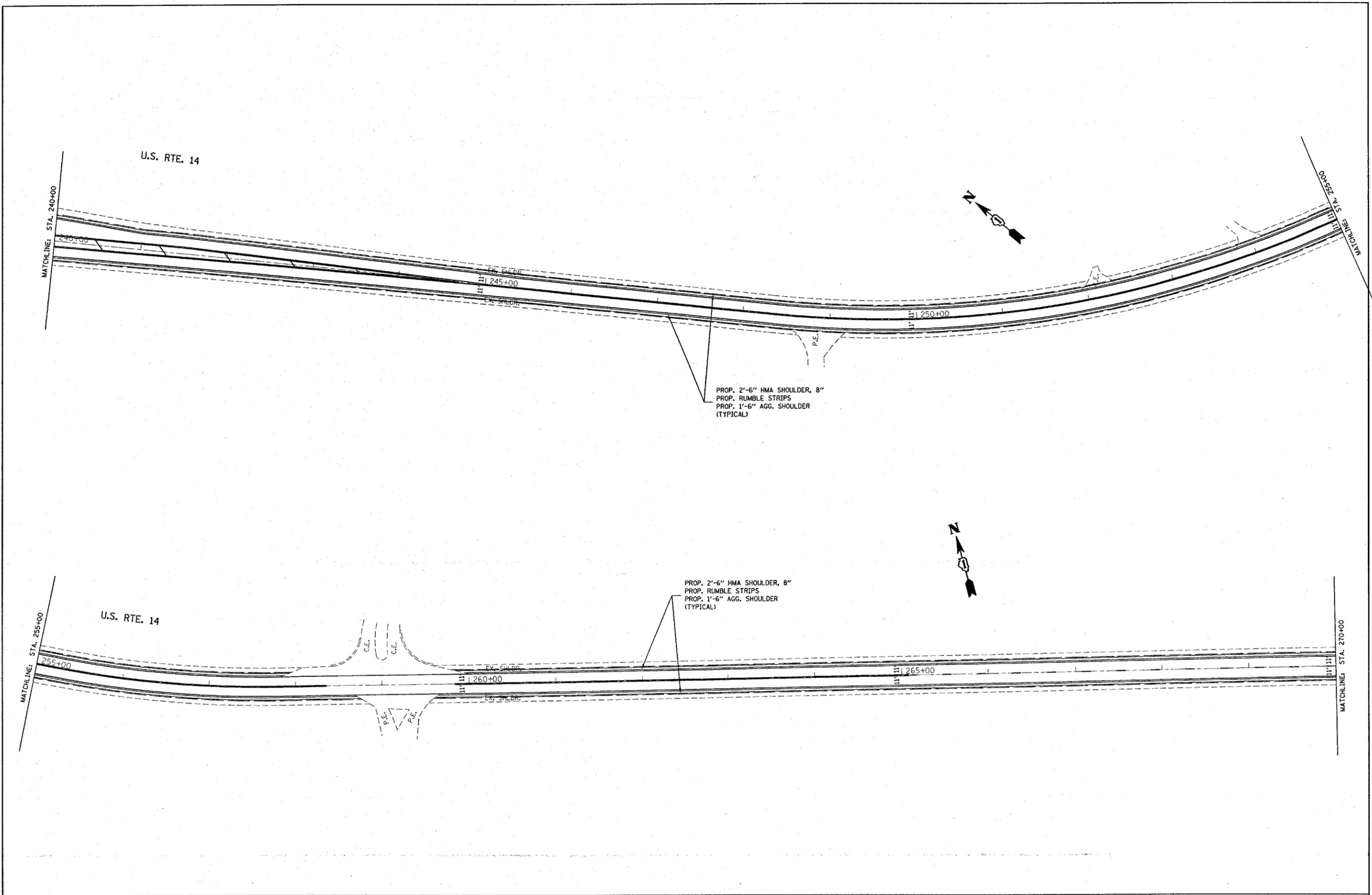
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|------------|---------|--------------|-----------|
| 305 | 2007-048 I | MCHENRY | 19 | 13 |

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

CONTRACT NO. 60D38



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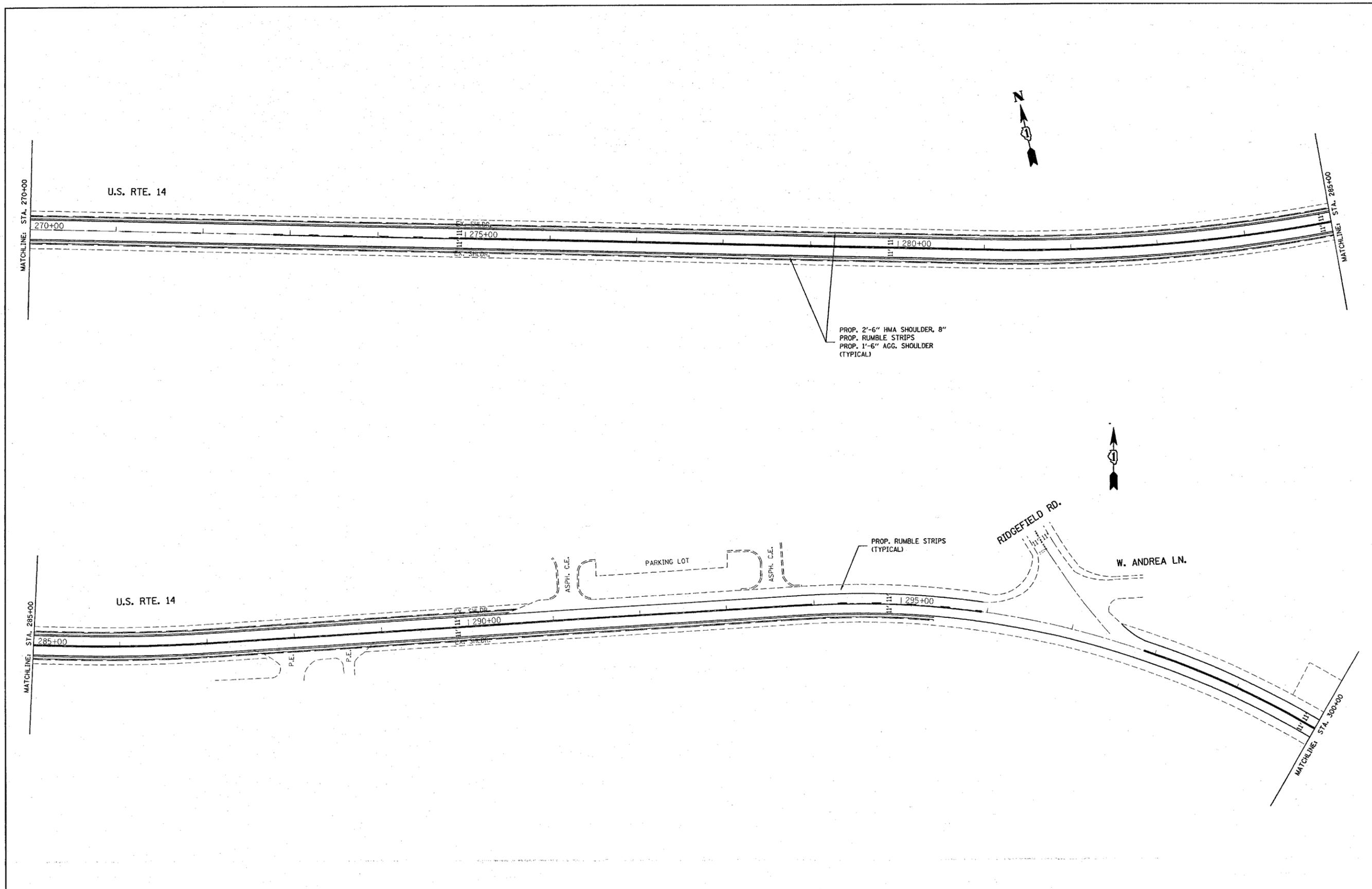
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| DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

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|---|------------|---------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 305 | 2007-048 I | MCHENRY | 19 | 14 |
| CONTRACT NO. 60D38 | | | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

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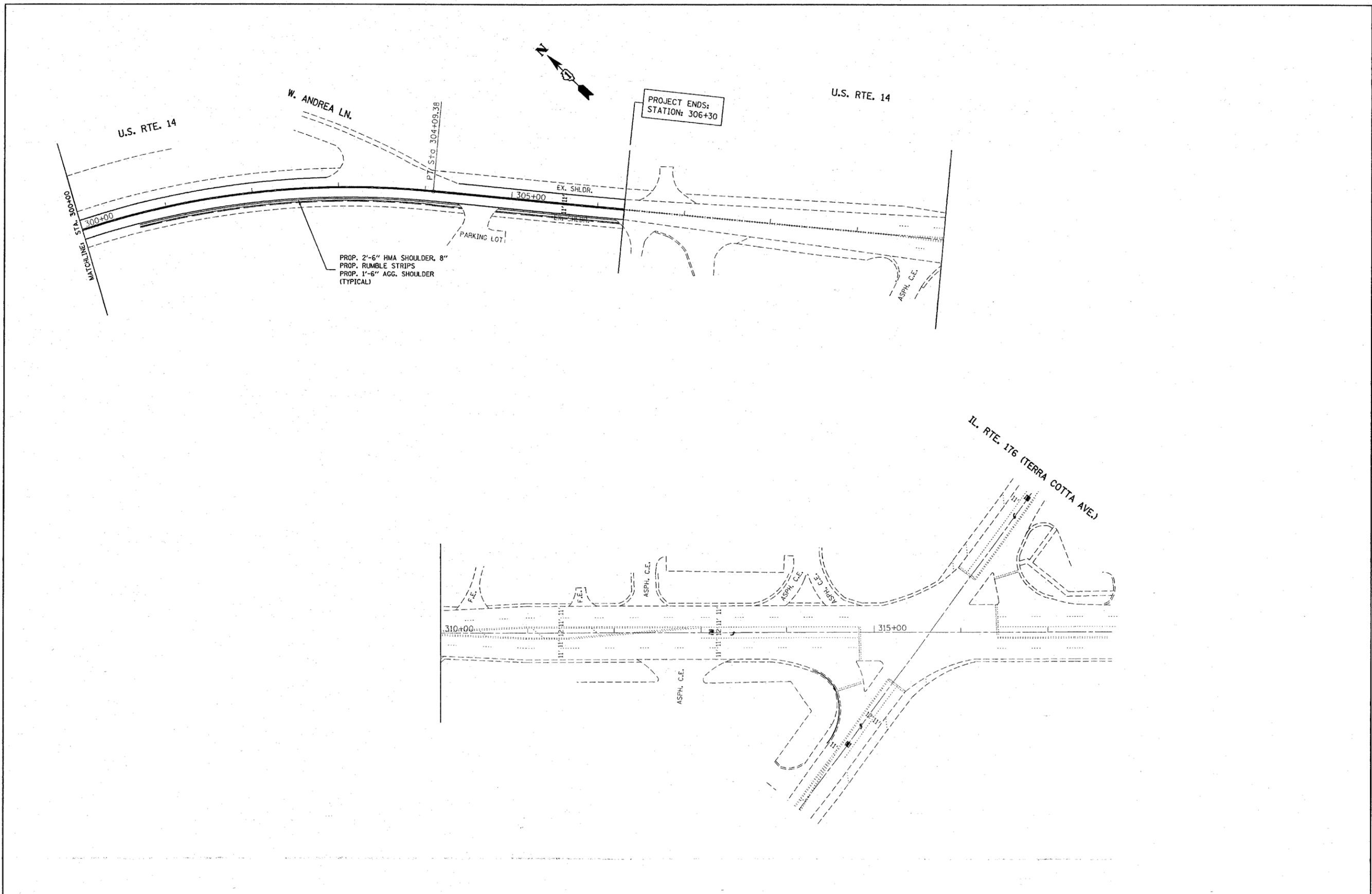
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| DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

| | | | | |
|---|------------|---------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 305 | 2007-048 I | MCHENRY | 19 | 15 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60038 | |

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 PLOT DATE = 12/27/2007

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| CHECKED - | REVISED - |
| DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

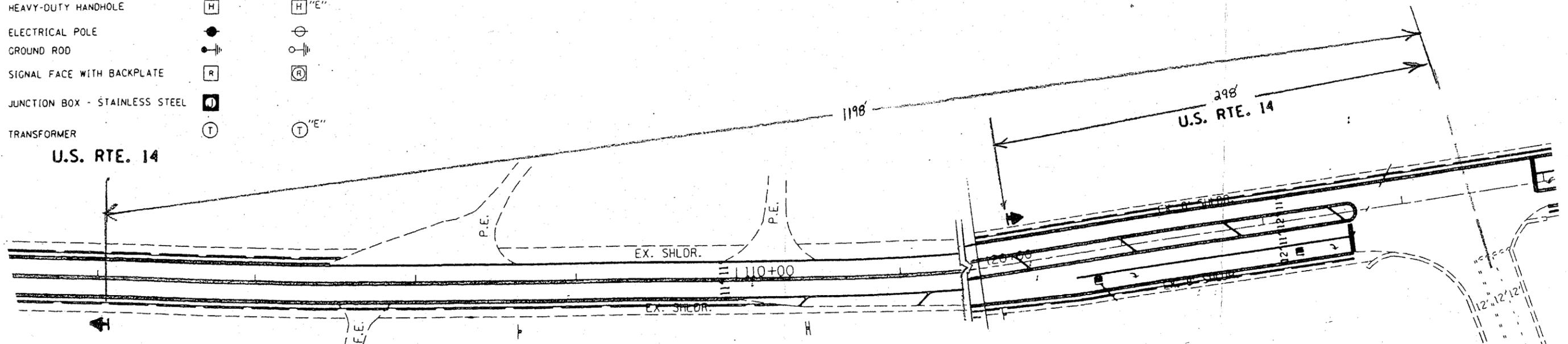
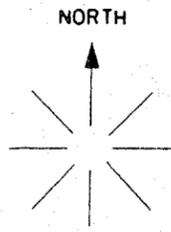
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|---|------------|---------|--------------|-----------|
| 305 | 2007-048 I | MCHENRY | 19 | 16 |
| CONTRACT NO. 60D38 | | | | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

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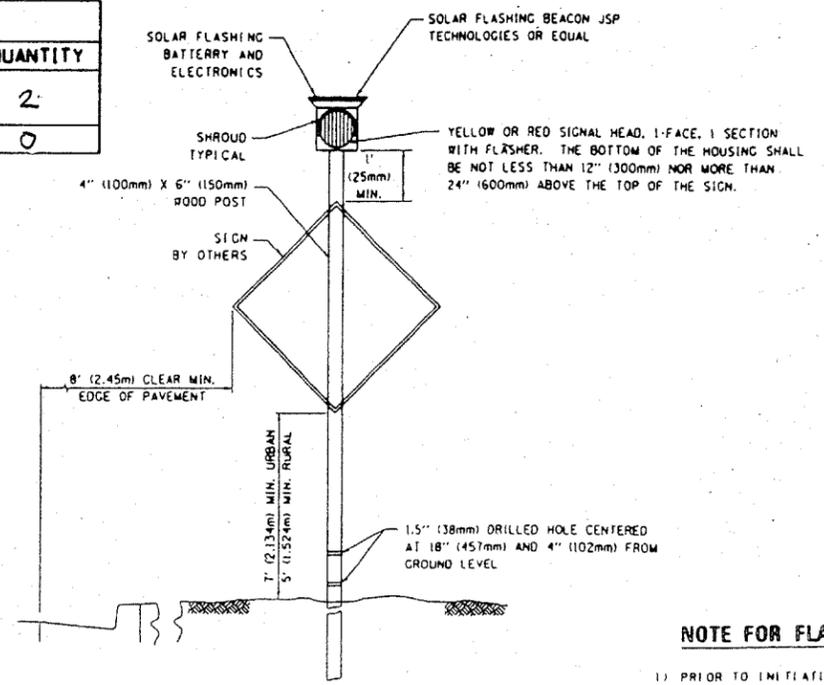
FLASHER SIGNAL LEGEND

| | PROPOSED | EXISTING |
|--|----------|----------|
| SERVICE INSTALLATION | ■ | □ |
| 12" SIGNAL HEAD (LED) | ▶ | ▷ |
| WOOD POST, 4" x 6" | ⊗ | ⊗ "E" |
| CONDUIT IN GROUND OR UNIT DUCT IN TRENCH | --- | === |
| HANDHOLE | ■ | □ |
| HEAVY-DUTY HANDHOLE | H | H "E" |
| ELECTRICAL POLE | ● | ⊙ |
| GROUND ROD | ⊥ | ⊥ |
| SIGNAL FACE WITH BACKPLATE | R | R |
| JUNCTION BOX - STAINLESS STEEL | J | J |
| TRANSFORMER | T | T "E" |

| | | | | | | | |
|---------------------|----------------|------------------|---------|--------------|----|-----------|----|
| F.A.P. SECTION | 305 2007-048 I | COUNTY | MCHENRY | TOTAL SHEETS | 19 | SHEET NO. | 17 |
| STA. | 75+00 | TO STA. | 135+00 | | | | |
| FED. ROAD DIST. NO. | ILLINOIS | FED. AID PROJECT | | | | | |



| ITEM | DESCRIPTION | UNIT | QUANTITY |
|----------|---|------|----------|
| XX005938 | SOLAR POWERED FLASHER, POST MOUNTED, 1 FACE (YELLOW L.E.D. DISPLAY) | EACH | 2 |
| SPW1 | POST, WOOD | EACH | 0 |



PROPOSED SOLAR FLASHER (24-HR)
N. T. S.

NOTE FOR FLASHER(S):
1) PRIOR TO INITIATING OPERATION OF ANY FLASHER LOCATION, IT SHALL BE THE RESPONSIBILITY OF THE "ELECTRICAL MAINTENANCE CONTRACTOR" TO CONTACT, 48 HRS IN ADVANCE, THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATION ENGINEER" AT (847) 705-4139, ILLINOIS DEPARTMENT OF TRANSPORTATION.

PLAN - TRAFFIC SIGNAL FLASHER



Illinois Department of Transportation
Division of Highways / District 1
201 West Center Court
Schaumburg, Illinois 60196-1096

ENERGY SUPPLY: SOLAR POWER

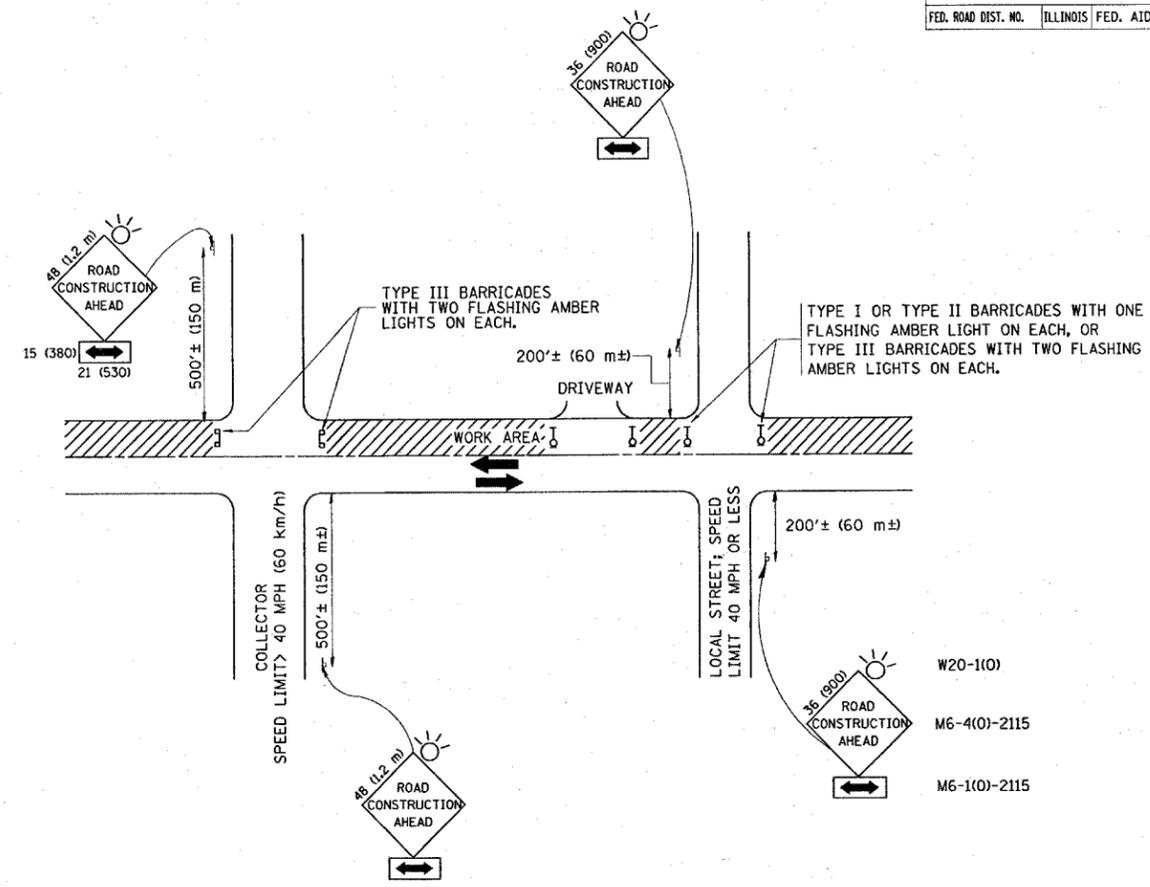
| REVISIONS | |
|-----------|------|
| NAME | DATE |
| | |
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ILLINOIS DEPARTMENT OF TRANSPORTATION
FLASHER INSTALLATION
U.S. RTE. 14 + DOTY RD.

SCALE: NONE
DATE: DEC 2007

DRAWN BY
DESIGNED BY
CHECKED BY

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|------------|---------|---------------------------|-----------|
| 350 | 2007-048 I | MCHENRY | 19 | 18 |
| 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 60 km/h (40 MPH) 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.

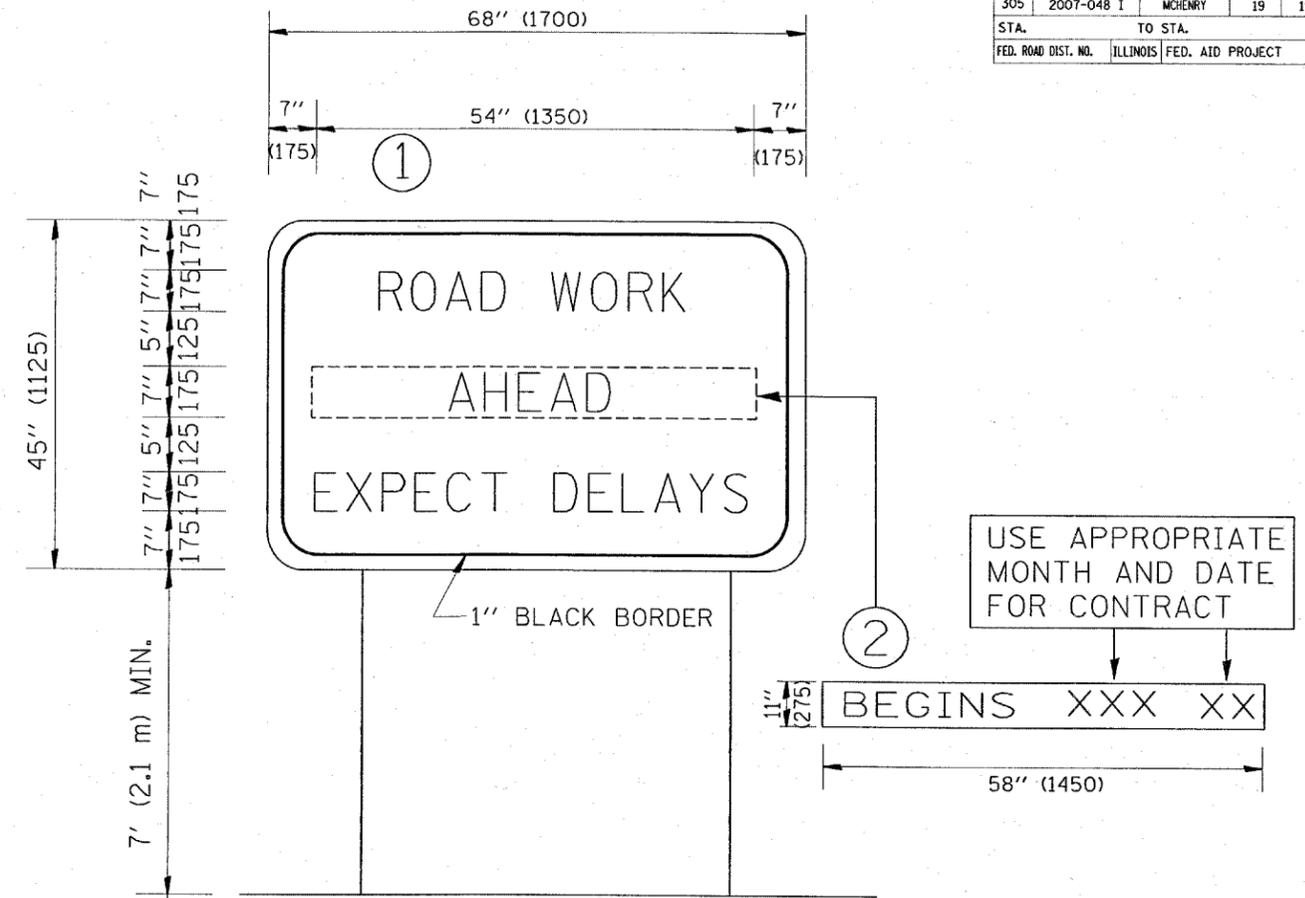
| REVISIONS | |
|--------------|----------|
| NAME | DATE |
| LHA | 6/89 |
| T. RAMMACHER | 09/08/94 |
| J. OBERLE | 10/18/95 |
| A. HOUSEH | 03/06/96 |
| A. HOUSEH | 10/15/96 |
| T. RAMMACHER | 01/06/00 |

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

SCALE: DATE: 12/27/2007 DRAWN BY: CHECKED BY: TC-10 REVISION DATE: 01/06/00

PLOT DATE = 12/27/2007
 FILE NAME = N:\asst\inf\2\users\amshhl\Desktop\CADD DETAILS\5\5018.dgn
 USER NAME = amshhl

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|------------|---------------------------|--------------|-----------|
| 305 | 2007-048 I | MCHENRY | 19 | 19 |
| STA. | | TO STA. | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |



NOTES:

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

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

| REVISIONS | |
|--------------|----------|
| NAME | DATE |
| R. MIRS | 9-15-97 |
| R. MIRS | 12-11-97 |
| T. RAMMACHER | 2-2-99 |
| | |
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| | |

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TEMPORARY INFORMATION SIGNING

SCALE:
 DATE: 12/27/2007

DRAWN BY DESIGN
 CHECKED BY

TC22
 REVISION DATE: 02/02/99