

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|----------|--------------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 1 |
| FED. ROAD DIST. NO. | | ILLINOIS | CONTRACT NO. 60N62 | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

**PROPOSED
HIGHWAY PLANS**

FAP 335 (IL RTE. 176)
SECTION 145X-RS-2
U.S. ROUTE 12 TO HILLTOP TERRACE
RESURFACING (3P)
LAKE COUNTY
C-91-332-11

D-91-332-11



LOCATION OF SECTION INDICATED THIS: - [thick line] -

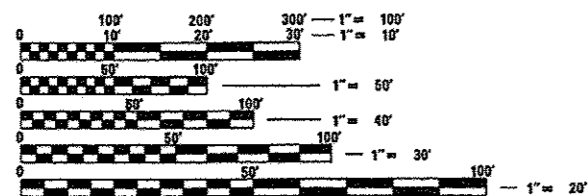
FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION:

SPEED LIMIT: 30 TO 45 M.P.H.

2013 ADT = 12,500

IMPROVEMENT LOCATED IN THE
VILLAGES OF WAUCONDA
AND HAWTHORN WOODS



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

(HRGREEN) PROJECT ENGINEER: BENJAMIN HARTMAN (815) 385-1778
(IDOT) PROJECT MANAGER: KEN ENG (847) 705-4247

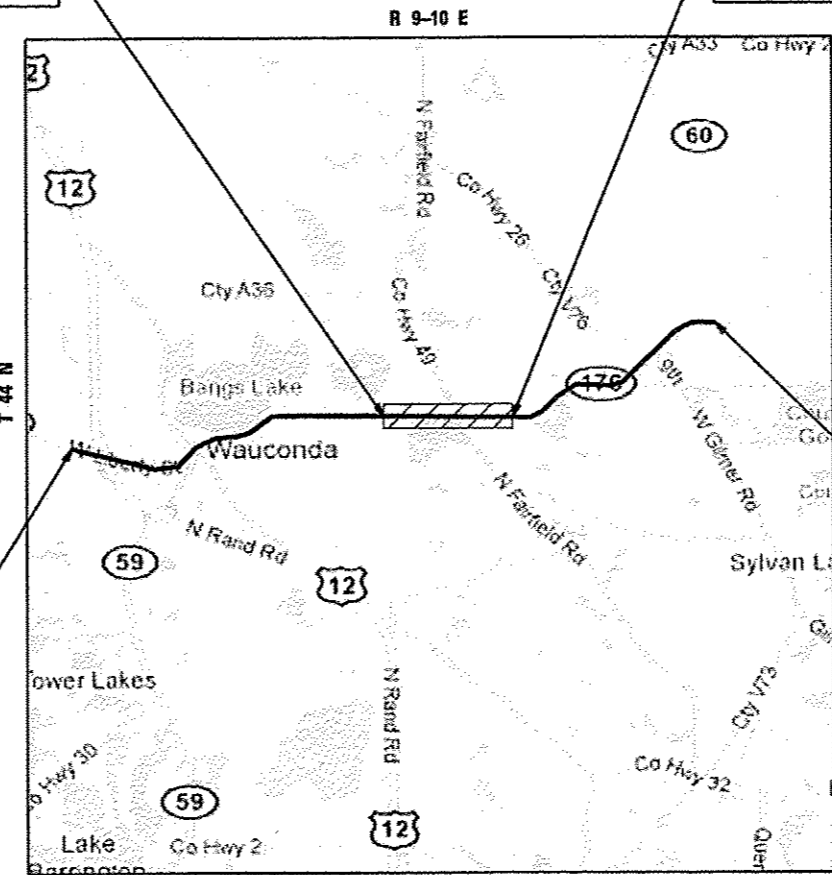
CONTRACT NO. 60N62

IMPROVEMENT OMISSION
BEGINS STA. 213+00

IMPROVEMENT OMISSION
ENDS STA. 261+00

IMPROVEMENT BEGINS
STA. 85+00

IMPROVEMENT ENDS
STA. 364+67



WAUCONDA AND FREMONT TOWNSHIPS

GROSS LENGTH OF IMPROVEMENT = 27,967 FT. = 5.30 MILE
NET LENGTH OF IMPROVEMENT = 23,167 FT. = 4.39 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

SUBMITTED June 9, 2014
[Signature]
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

July 18, 2014
[Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

July 18, 2014
[Signature]
DIRECTOR OF HIGHWAYS, CHIEF ENGINEER

PROFESSIONAL ENGINEER'S SIGN & SEAL

[Signature]
BENJAMIN D. HARTMAN
602-991628

EXPIRES: 11/30/2015

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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| | |
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LIST OF STATE STANDARDS

| STANDARD NO. | DESCRIPTION |
|--------------|---|
| 000001-06 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 424001-07 | PERPENDICULAR CURB RAMP FOR SIDEWALKS |
| 442201-03 | CLASS C AND D PATCHES |
| 604001-03 | FRAME AND LID TYPE 1 |
| 604001-07 | FRAME AND GRATE TYPE 24 |
| 606001-05 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER |
| 701501-06 | URBAN LANE CLOSURE 2L, 2W, UNDIVIDED |
| 701502-06 | URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE |
| 701701-09 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
| 701901-03 | TRAFFIC CONTROL DEVICES |

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" (JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION) AT 8-1-1 OR (800) 892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES (48 HOUR NOTIFICATION IS REQUIRED).
2. 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER ITEMS OF WORK TO EXISTING CURBS AND GUTTERS AND CONDITIONS IN THE FIELD UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF WAUCONDA AND HAWTHORNE WOODS.
4. WHEN ARTIFICIAL LIGHTING IS USED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
5. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
6. SAW CUTTING OF PAVEMENTS, SIDEWALK, CURB & GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
7. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
8. THE CONTRACTOR SHALL USE CARE IN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTORS EXPENSE.
9. WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1.5 INCHES (40mm) WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).
10. UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
11. BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE ALL EXISTING PAVEMENT MARKING LINES AND RAISED REFLECTIVE PAVEMENT MARKERS IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
12. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKINGS.
13. THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.
14. THE RESIDENT ENGINEER SHALL CONTACT MS. DEBBIE HANLON, THE AREA TRAFFIC FIELD ENGINEER, AT (847) 438-2300 AT LEAST TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
15. LOCATIONS OF PAVEMENT PATCHING AND CURB & GUTTER REMOVAL & REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
16. BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE THE "BUTT JOINT AND HMA TAPER DETAILS" INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
17. MATCH EXISTING PAVEMENT MARKINGS AT THE PROJECT LIMITS.
18. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE.
19. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CONTACTING OWNERS OF ALL UTILITIES PRIOR TO CONSTRUCTION TO DETERMINE THE LOCATION OF ALL UTILITY EQUIPMENT. THE CONTRACTOR SHALL COOPERATE WITH ALL UTILITY OWNERS IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS IF UTILITY RELOCATION, ADJUSTMENT, OR PROTECTION IS NECESSARY.
20. THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR
21. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN ON THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
22. ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
23. IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR THE CONSTRUCTION AND ORDERING MATERIALS.
24. EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: B. HARTMAN
 CLIENT: ILLINOIS
 DATE PLOTTED: 6/9/2014 10:57 AM
 FILE NAME: 606001RS-08-001.dgn
 PLOT SCALE: N.T.S.
 PLOT DATE: 6/9/2014



HRGreen.com
 Multi Professional Design Firm
 #104-001322

| | | |
|---------------------|----------------------|------------|
| USER NAME: bhartman | DESIGNED: B. HARTMAN | REVISED: - |
| PLOT SCALE: N.T.S. | CHECKED: T. HAMILTON | REVISED: - |
| PLOT DATE: 6/9/2014 | DATE: 6/9/14 | REVISED: - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, LIST OF STATE STANDARDS AND GENERAL NOTES
ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145X-RS-2 | LAKE | 44 | 2 |
| CONTRACT NO. | | | 60662 | |
| FED. ROAD DIST. NO. [ILLINOIS] FED. AID PROJECT | | | | |

COMPANY NAME: #COMPANY NAME/
 PROJECT CONTACT: #PROJECT_CONTACT/
 CLIENT: #CLIENT/
 DATE PLOTTED: 6/9/2014 11:41:44 AM
 PLOT NAME: 8000096.DWG
 PLOT NUMBER: 0000096
 PLOT SCALE: 1/8"=1'-0"

CONSTRUCTION
 CODE
 100% STATE
 ROADWAY
 0005
 URBAN

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | |
|----------|--|-------|----------------|---------|
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 77 | 77 |
| 25200110 | SODDING, SALT TOLERANT | SQ YD | 77 | 77 |
| 35501316 | HOT-MIX ASPHALT BASE COURSE, 8" | SQ YD | 25 | 25 |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS | TON | 50 | 50 |
| 40600827 | POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 | TON | 5,473 | 5,473 |
| 40600895 | CONSTRUCTING TEST STRIP | EACH | 2 | 2 |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SQ YD | 690 | 690 |
| 40601005 | HOT-MIX ASPHALT REPLACEMENT OVER PATCHES | TON | 840 | 840 |
| 40603340 | HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 | TON | 8,957 | 8,957 |
| 42001300 | PROTECTIVE COAT | SQ YD | 185 | 185 |
| 44000159 | HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" | SQ YD | 103,040 | 103,040 |
| 44000200 | DRIVEWAY PAVEMENT REMOVAL | SQ YD | 25 | 25 |
| 44002216 | HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4" | SQ YD | 3,745 | 3,745 |
| 44201761 | CLASS D PATCHES, TYPE I, 10 INCH | SQ YD | 115 | 115 |
| 44201765 | CLASS D PATCHES, TYPE II, 10 INCH | SQ YD | 604 | 604 |
| 44201769 | CLASS D PATCHES, TYPE III, 10 INCH | SQ YD | 1,007 | 1,007 |
| 44201771 | CLASS D PATCHES, TYPE IV, 10 INCH | SQ YD | 1,151 | 1,151 |

• SPECIALTY ITEMS



| | | |
|---------------------|-----------------------|-----------|
| USER NAME: bharling | DESIGNED - B. HARTMAN | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE: N.T.S. | CHECKED - T. HAMILTON | REVISED - |
| PLOT DATE: 6/9/2014 | DATE - 6/9/14 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)

| | | |
|---------------|-------------------------|--------------------|
| SCALE: N.T.S. | SHEET NO. 1 OF 4 SHEETS | STA. NA TO STA. NA |
|---------------|-------------------------|--------------------|

| | | | | |
|---------------------|-----------|---------------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145X-RS-2 | LAKE | 44 | 3 |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |
| | | CONTRACT NO. 60N62 | | |

SUMMARY OF QUANTITIES

CONSTRUCTION
CODE
100% STATE
ROADWAY
0005
URBAN

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | |
|----------|---|--------|----------------|--------|
| 44201798 | CLASS D PATCHES, TYPE I, 13 INCH | SQ YD | 5 | 5 |
| 44201803 | CLASS D PATCHES, TYPE II, 13 INCH | SQ YD | 15 | 15 |
| 44201807 | CLASS D PATCHES, TYPE III, 13 INCH | SQ YD | 25 | 25 |
| 44201809 | CLASS D PATCHES, TYPE IV, 13 INCH | SQ YD | 30 | 30 |
| 48102100 | AGGREGATE WEDGE SHOULDER, TYPE B | TON | 1,270 | 1,270 |
| 60266600 | VALVE BOXES TO BE ADJUSTED | EACH | 7 | 7 |
| 60300105 | FRAMES AND GRATES TO BE ADJUSTED | EACH | 11 | 11 |
| 60406100 | FRAMES AND LIDS, TYPE 1, CLOSED LID | EACH | 10 | 10 |
| 60404950 | FRAMES AND GRATES, TYPE 24 | EACH | 11 | 11 |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 8 | 8 |
| 67100100 | MOBILIZATION | L SUM | 1 | 1 |
| 70102620 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701501 | L SUM | 1 | 1 |
| 70102622 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701502 | L SUM | 1 | 1 |
| 70102635 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 | L SUM | 1 | 1 |
| 70300100 | SHORT-TERM PAVEMENT MARKING | FOOT | 31,150 | 31,150 |
| 70300210 | TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS | SQ FT | 1,520 | 1,520 |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 89,760 | 89,760 |

• SPECIALTY ITEMS

COMPANY NAME: #1000000000
PROJECT CONTACT: #1000000000
CLIENT: #1000000000
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PLOT NAME: 060001R08-sum.dgn
PLOT DRIVER: dtdrdr
PLOT TABLE: standard.ctb



| | | |
|---------------------|-----------------------|-----------|
| USER NAME: bhartha | DESIGNED - B. HARTMAN | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE: N.T.S. | CHECKED - T. HAMILTON | REVISED - |
| PLOT DATE: 6/9/2014 | DATE - 6/9/14 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)

SCALE: N.T.S. SHEET NO. 2 OF 4 SHEETS STA. NA TO STA. NA

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|--------|---------------------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 4 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |

CONTRACT NO. 60N62

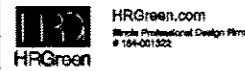
SUMMARY OF QUANTITIES

CONSTRUCTION
CODE
100% STATE
ROADWAY
0005
URBAN

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | |
|------------|--|-------|----------------|--------|
| 70300240 | TEMPORARY PAVEMENT MARKING - LINE 6" | FOOT | 4,870 | 4,870 |
| 70300250 | TEMPORARY PAVEMENT MARKING - LINE 8" | FOOT | 430 | 430 |
| 70300260 | TEMPORARY PAVEMENT MARKING - LINE 12" | FOOT | 960 | 960 |
| 70300280 | TEMPORARY PAVEMENT MARKING - LINE 24" | FOOT | 860 | 860 |
| 70301000 | WORK ZONE PAVEMENT MARKING REMOVAL | 50 FT | 10,385 | 10,385 |
| * 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | 50 FT | 1,520 | 1,520 |
| * 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 89,760 | 89,760 |
| * 78000400 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" | FOOT | 4,870 | 4,870 |
| * 78000500 | THERMOPLASTIC PAVEMENT MARKING - LINE 8" | FOOT | 430 | 430 |
| * 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" | FOOT | 960 | 960 |
| * 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 860 | 860 |
| * 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 1,020 | 1,020 |
| 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 1,301 | 1,301 |
| * 88600600 | DETECTOR LOOP REPLACEMENT | FOOT | 3,094 | 3,094 |
| X2020110 | GRADING AND SHAPING SHOULDERS | UNIT | 380 | 380 |
| 40800025 | BITUMINOUS MATERIALS (PRIME COAT) | POUND | 7,730 | 7,730 |
| X5537800 | STORM SEWERS TO BE CLEANED 12" | FOOT | 500 | 500 |

• SPECIALTY ITEMS

COMPANY NAME: HRGreen
PROJECT CONTACT: #PROJECT CONTACT
CLIENT: #CLIENT
DATE PLOTTED: 6/9/2014 11:41:54 AM
FILE NAME: 6600196.09-sum.dgn
PLOT DRIVER: pdf.plt
PEN TABLE: standard-trans.tbl



| | | |
|---------------------|-----------------------|-----------|
| USER NAME: bhar.tmb | DESIGNED - B. HARTMAN | REVISED - |
| PLOT SCALE: N.T.S. | DRAWN - | REVISED - |
| PLOT DATE: 6/9/2014 | CHECKED - T. HAMILTON | REVISED - |
| | DATE - 6/9/14 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)

SCALE: N.T.S. SHEET NO. 3 OF 4 SHEETS STA. NA TO STA. NA

| | | | | |
|---|--------------------|--------------------|------------------|--------------|
| F.A. RATE: 335 | SECTION: 145X-RS-2 | COUNTY: LAKE | TOTAL SHEETS: 44 | SHEET NO.: 5 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | CONTRACT NO. 60N62 | | |

SUMMARY OF QUANTITIES

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE |
|----------|--|-------|----------------|--------------------|
| | | | | 100% STATE ROADWAY |
| X6030310 | FRAMES AND LIDS TO BE ADJUSTED (SPECIAL) | EACH | 47 | 0205 URBAN |
| Z0004562 | COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT | FOOT | 540 | |
| Z0017700 | DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED | EACH | 1 | |
| Z0018500 | DRAINAGE STRUCTURES TO BE CLEANED | EACH | 25 | |
| Z0030850 | TEMPORARY INFORMATION SIGNING | SO FT | 257 | |

5

• SPECIALITY ITEMS

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: bhartha
 CLIENT: ILLINOIS DEPARTMENT OF TRANSPORTATION
 FILE NAME: 145X-RS-2.dwg
 PLOT BY: bhartha
 PLOT DATE: 6/10/14



| | | | | | |
|------------|---------|-----------|-------------|-----------|---|
| USER NAME | bhartha | DESIGNED | B. HARTMAN | REVISED | - |
| DRAWN | - | REVISIONS | - | REVISIONS | - |
| PLOT SCALE | N.T.S. | CHECKED | T. HAMILTON | REVISIONS | - |
| PLOT DATE | 6/10/14 | DATE | 6/10/14 | REVISIONS | - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
 ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)

SCALE: N.T.S. SHEET NO. 4 OF 4 SHEETS STA. NA TO STA. NA

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|-----------|--------|--------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 5 |
| CONTRACT NO. | | | 60N62 | |

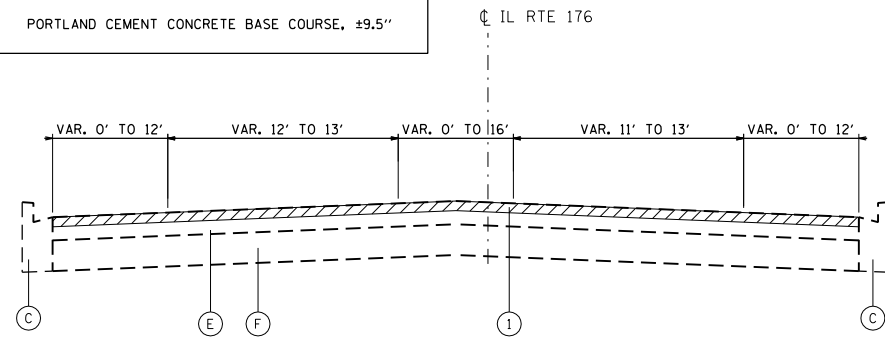
FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT

EXISTING CONDITIONS

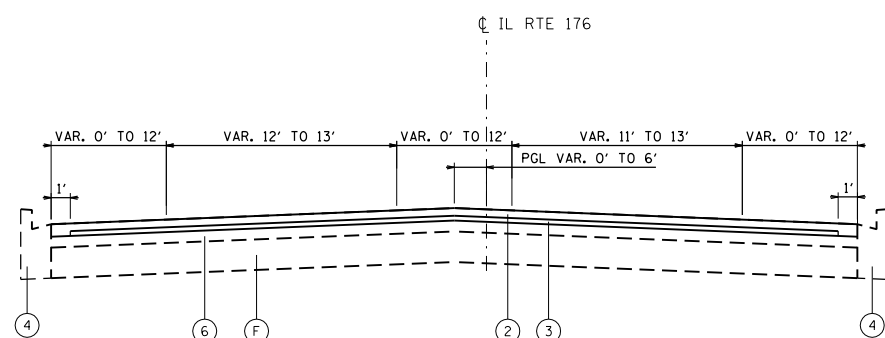
- (A) HOT-MIX ASPHALT RESURFACING, ±4"
- (B) PORTLAND CEMENT CONCRETE PAVEMENT, 10"
- (C) COMBINATION CONCRETE CURB AND GUTTER
- (D) AGGREGATE SHOULDERS
- (E) HOT-MIX ASPHALT RESURFACING, VARIES ±5" TO ±7"
- (F) PORTLAND CEMENT CONCRETE BASE COURSE, ±9.5"

PROPOSED IMPROVEMENTS

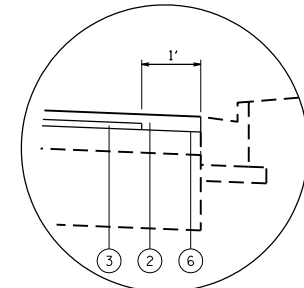
- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (2) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1 1/2"
- (3) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- (4) COMBINATION CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT (AT LOCATIONS AS DETERMINED BY THE ENGINEER)
- (5) AGGREGATE WEDGE SHOULDER, TYPE B (TAPER 3" TO 1" THICKNESS) - SEE SAFETY EDGE DETAIL
- (6) EXISTING HOT-MIX ASPHALT SURFACE AFTER PROPOSED SURFACE REMOVAL



EXISTING TYPICAL SECTION
STA. 85+00 TO STA. 91+72

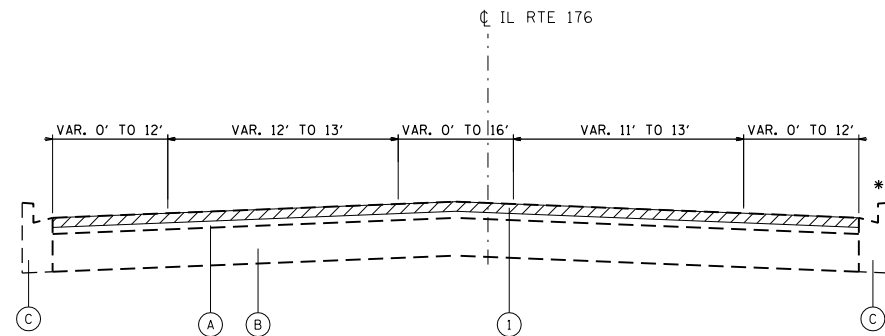


PROPOSED TYPICAL SECTION
STA. 85+00 TO STA. 91+72

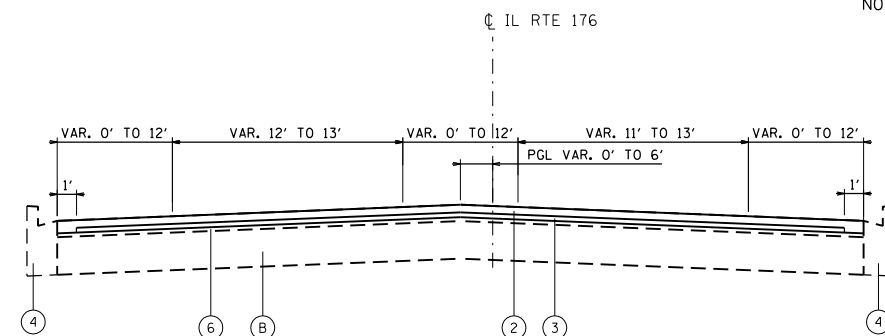


RESURFACING TREATMENT AT EDGE OF PAVEMENT
N.T.S.

NOTE: THE POLYMERIZED LEVELING BINDER SHALL RECEDE 1' FROM THE EDGE OF PAVEMENT. THE INCREASED THICKNESS OF HMA SURFACE COURSE ALONG THE EDGE SHALL BE INCLUDED IN THE COST OF HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70.



EXISTING TYPICAL SECTION
STA. 91+72 TO STA. 149+11



PROPOSED TYPICAL SECTION
STA. 91+72 TO STA. 149+11

* CURB & GUTTER ENDS - STA. 144+74

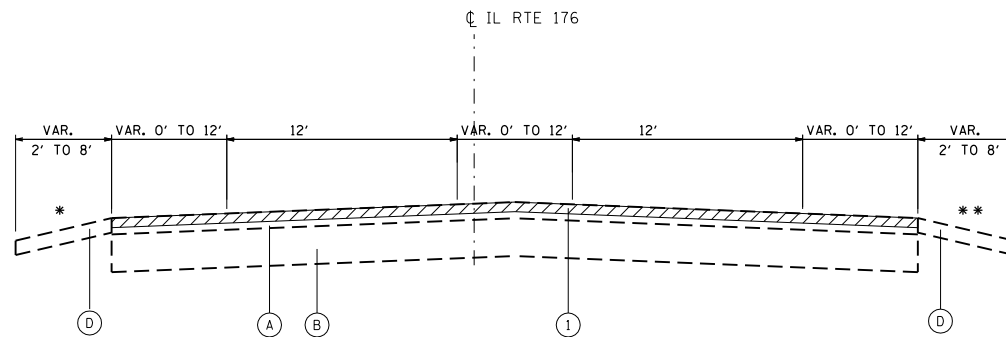
* CURB & GUTTER ENDS - STA. 144+74

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

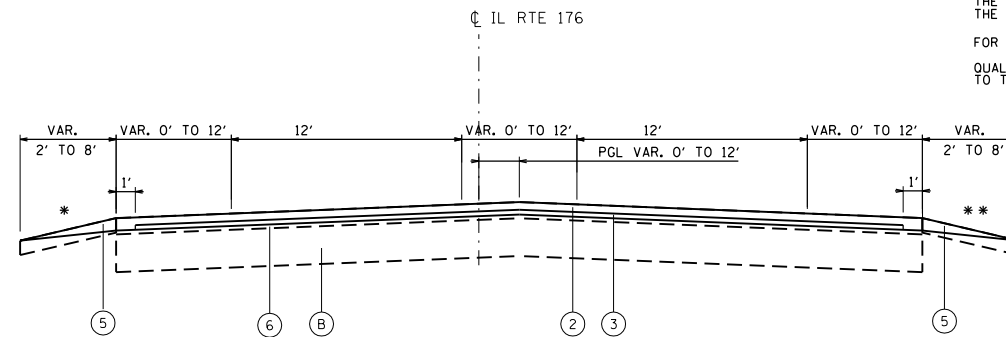
| MIXTURE TYPE | AIR VOIDS | QUALITY MANAGEMENT PROGRAM (QMP) |
|--|----------------|----------------------------------|
| PAVEMENT RESURFACING | | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm) | 4% @ 70 GYR. | PFP |
| POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 | 3.5% @ 50 GYR. | OCP |
| HMA SHOULDER RESURFACING | | |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL-9.5mm) | 4% @ 70 GYR. | PFP |
| POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 | 3.5% @ 50 GYR. | OCP |
| PATCHING | | |
| CLASS D PATCHES (HMA BINDER, IL-19mm) | 4% @ 70 GYR. | OC/OA |
| HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19mm) | 4% @ 70 GYR. | OC/OA |
| DRIVEWAYS | | |
| HMA SURFACE COURSE, MIX "D", N70 (IL-9.5mm); 2" | 4% @ 70 GYR. | PFP |
| HMA BASE COURSE (HMA BINDER IL-19mm); 8" | 4% @ 50 GYR. | OC/OA |

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (OC/OA); QUALITY CONTROL FOR PERFORMANCE (OCP); PAY FOR PERFORMANCE (PFP)

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/50 YD³/IN
 THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
 FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.
 QUALITY MANAGEMENT PROGRAM IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE



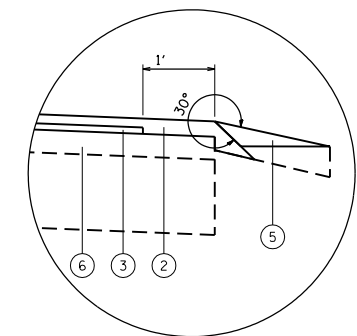
EXISTING TYPICAL SECTION
STA. 149+11 TO STA. 213+00
STA. 261+00 TO STA. 364+67



PROPOSED TYPICAL SECTION
STA. 149+11 TO STA. 213+00
STA. 261+00 TO STA. 364+67

* HMA SHOULDER - STA. 316+51 TO STA. 323+53
STA. 357+03 TO STA. 358+52
STA. 361+33 TO STA. 364+67
** HMA SHOULDER - STA. 345+99 TO STA. 355+54

* HMA SHOULDER - STA. 316+51 TO STA. 323+53
STA. 357+03 TO STA. 358+52
STA. 361+33 TO STA. 364+67
** HMA SHOULDER - STA. 345+99 TO STA. 355+54



SAFETY EDGE DETAIL
N.T.S.

NOTE: THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING FROM APPROXIMATELY STA. 85+00 TO STA. 91+72. THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING FROM APPROXIMATELY STA. 91+72 TO STA. 364+67. SEE DISTRICT 1 DETAIL PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT.

COMPANY NAME: HRGreen.com
 PROJECT CONTACT: B. HARTMAN
 DATE PLOTTED: 6/9/2014 10:06:29 AM
 FILE NAME: 86100196.08-ty-01.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: standard-trans.tbl



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|----------------------|-----------------------|-----------|
| USER NAME = bhartma | DESIGNED - B. HARTMAN | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - T. HAMILTON | REVISED - |
| PLOT DATE = 6/9/2014 | DATE - 6/9/14 | REVISED - |

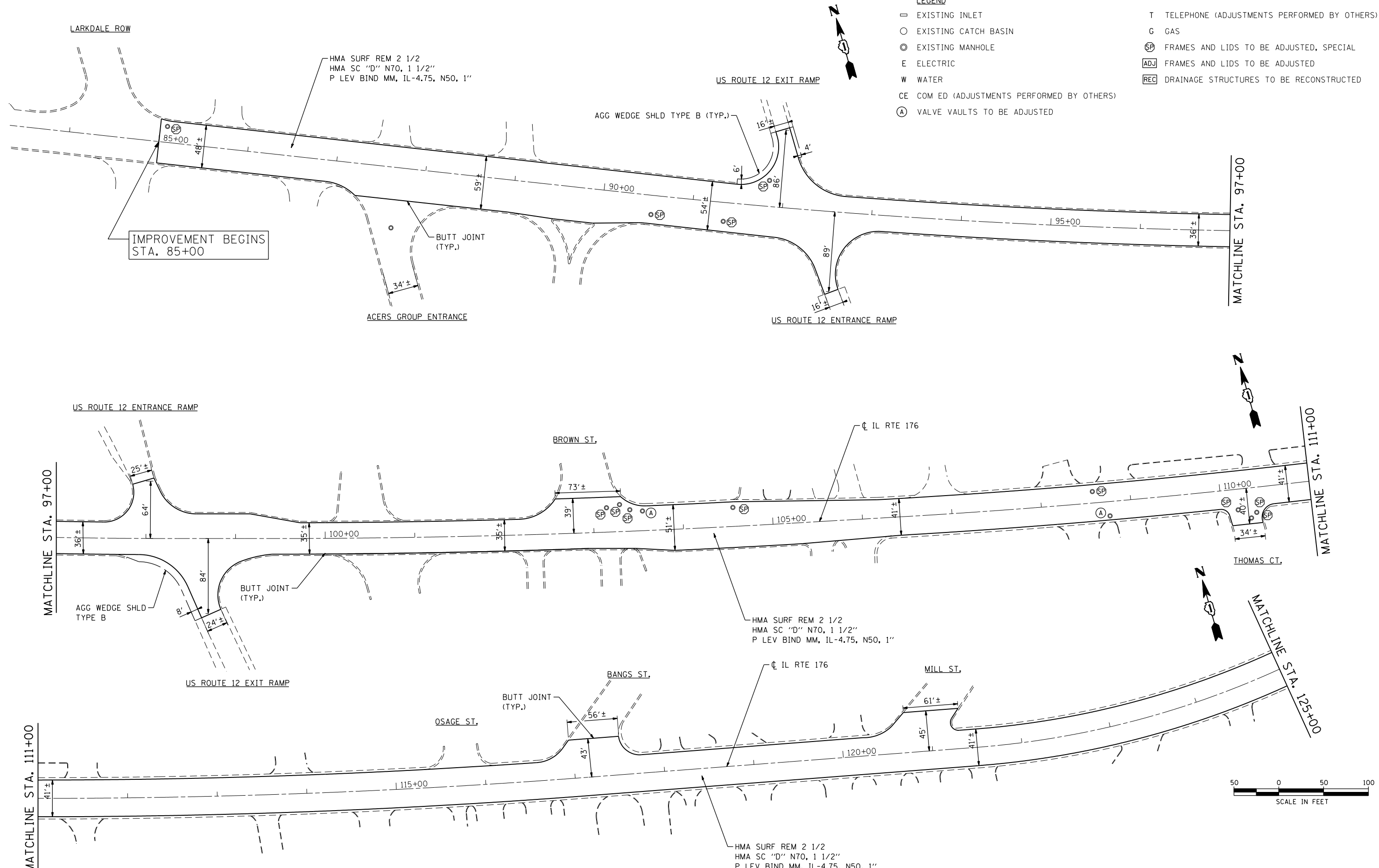
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTIONS
ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)

SCALE: N.T.S. SHEET NO. 1 OF 1 SHEETS STA. BEGIN TO STA. END

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|---------------------------|--------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 7 |
| CONTRACT NO. 60N62 | | | | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

- LEGEND**
- EXISTING INLET
 - EXISTING CATCH BASIN
 - ⊙ EXISTING MANHOLE
 - E ELECTRIC
 - W WATER
 - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
 - Ⓐ VALVE VAULTS TO BE ADJUSTED
 - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
 - G GAS
 - Ⓢ FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
 - Ⓐ FRAMES AND LIDS TO BE ADJUSTED
 - Ⓡ REC DRAINAGE STRUCTURES TO BE RECONSTRUCTED



COMPANY NAME: #COMPANY_NAME
 PROJECT CONTACT: #PROJECT_CONTACT
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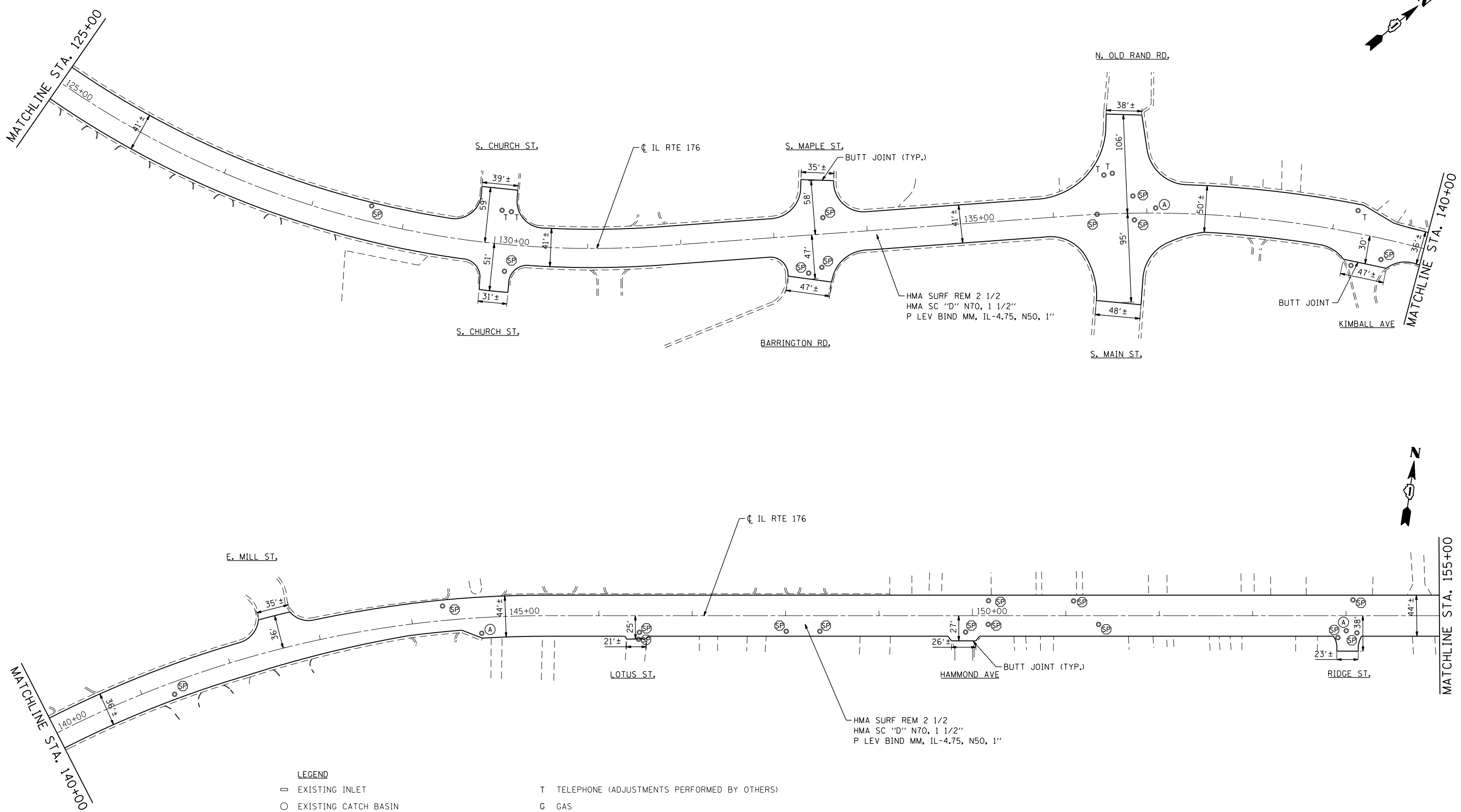
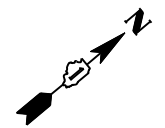
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|-----------------------|-----------------------|-----------|
| USER NAME = bhartma | DESIGNED - B. HARTMAN | REVISED - |
| PLOT SCALE = 1" = 50' | CHECKED - T. HAMILTON | REVISED - |
| PLOT DATE = 6/9/2014 | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

SCALE: 1" = 50' SHEET NO. 1 OF 9 SHEETS STA. BEGIN TO STA. 125+00

| | | | | |
|---|-------------------|-------------|--------------------|-------------|
| F.A. RTE. 335 | SECTION 145X-RS-2 | COUNTY LAKE | TOTAL SHEETS 44 | SHEET NO. 8 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60N62 | |



- LEGEND**
- EXISTING INLET
 - EXISTING CATCH BASIN
 - ⊙ EXISTING MANHOLE
 - E ELECTRIC
 - W WATER
 - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
 - Ⓐ VALVE VAULTS TO BE ADJUSTED
 - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
 - G GAS
 - ⓈP FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
 - ⒶDJ FRAMES AND LIDS TO BE ADJUSTED
 - ⒶREC DRAINAGE STRUCTURES TO BE RECONSTRUCTED



COMPANY NAME: #COMPANY_NAME
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| PLOT SCALE = 1" = 50' | DRAWN - | REVISED - |
| PLOT DATE = 6/9/2014 | CHECKED - T. HAMILTON | REVISED - |
| | DATE - 6/9/14 | REVISED - |

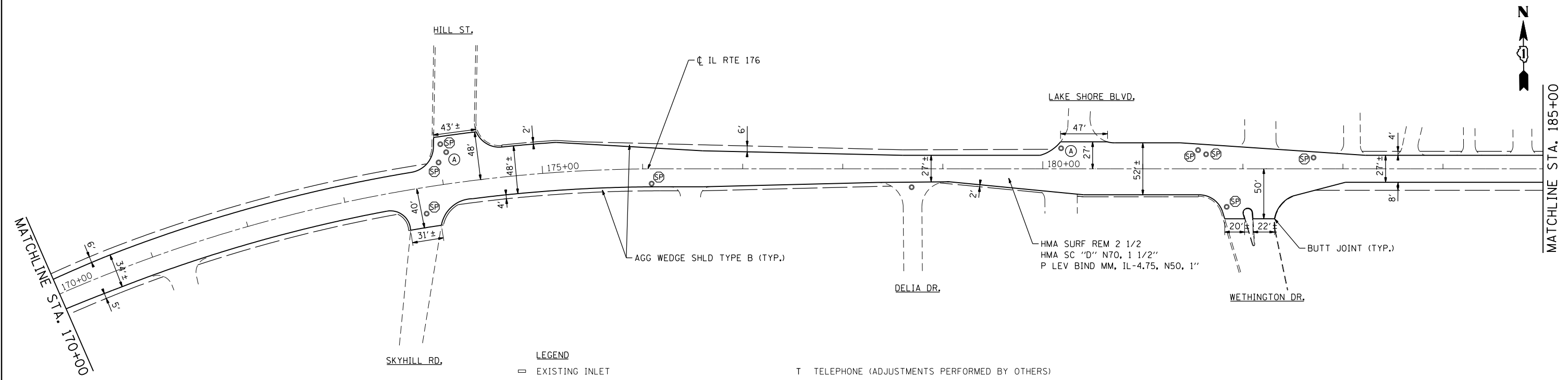
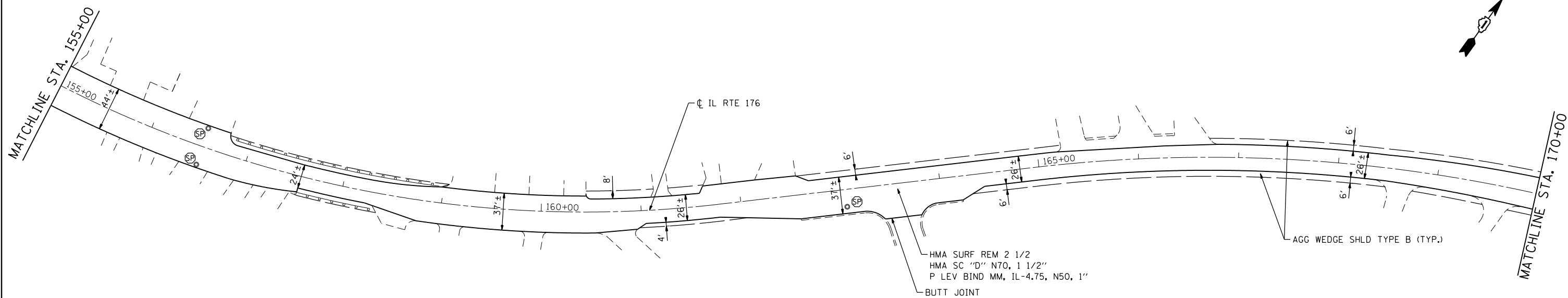
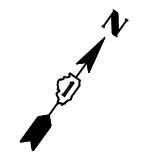
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

SCALE: 1" = 50' SHEET NO. 2 OF 9 SHEETS STA. 125+00 TO STA. 155+00

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|--------|---------------------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 9 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |
| | | | CONTRACT NO. 60N62 | |

C:\91339\11
 86100196.08-plan-02.dgn



- LEGEND**
- EXISTING INLET
 - EXISTING CATCH BASIN
 - ⊙ EXISTING MANHOLE
 - E ELECTRIC
 - W WATER
 - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
 - Ⓐ VALVE VAULTS TO BE ADJUSTED
 - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
 - G GAS
 - ⓈP FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
 - ⒶDJ FRAMES AND LIDS TO BE ADJUSTED
 - ⒶREC DRAINAGE STRUCTURES TO BE RECONSTRUCTED



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 PROJECT CONTACT: #PROJECT_CONTACT
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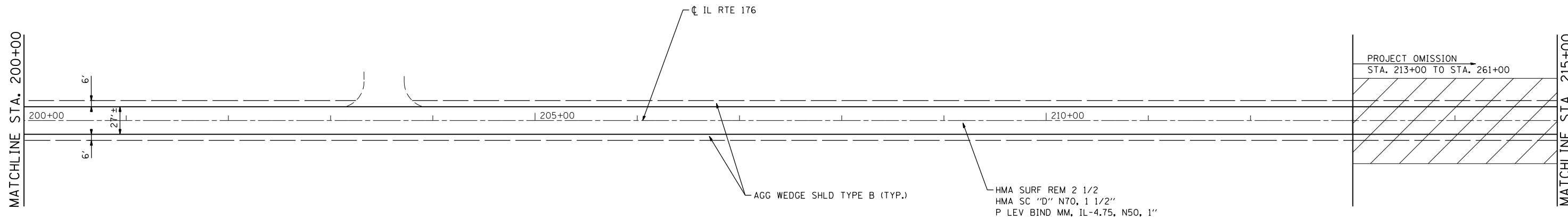
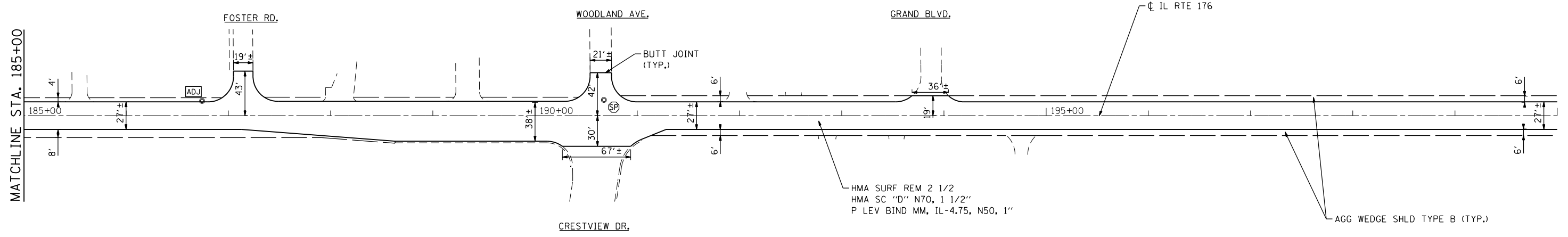
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|-----------------------|-----------------------|-----------|
| USER NAME = bhartma | DESIGNED - B. HARTMAN | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 1" = 50' | CHECKED - T. HAMILTON | REVISED - |
| PLOT DATE = 6/9/2014 | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

SCALE: 1" = 50' SHEET NO. 3 OF 9 SHEETS STA. 155+00 TO STA. 185+00

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|---------------------------|--------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 10 |
| CONTRACT NO. | | | 60N62 | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |



- LEGEND**
- EXISTING INLET
 - EXISTING CATCH BASIN
 - ⊙ EXISTING MANHOLE
 - E ELECTRIC
 - W WATER
 - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
 - Ⓐ VALVE VAULTS TO BE ADJUSTED
 - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
 - G GAS
 - Ⓢ FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
 - ADJ FRAMES AND LIDS TO BE ADJUSTED
 - REC DRAINAGE STRUCTURES TO BE RECONSTRUCTED



COMPANY NAME: #COMPANY_NAME
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| USER NAME = bhartma | DESIGNED - B. HARTMAN | REVISED - |
| PLOT SCALE = 1" = 50' | DRAWN - | REVISED - |
| PLOT DATE = 6/9/2014 | CHECKED - T. HAMILTON | REVISED - |
| | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

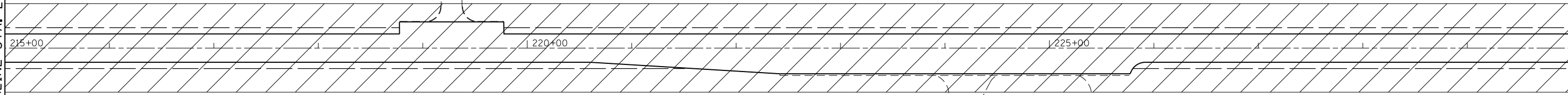
SCALE: 1" = 50' SHEET NO. 4 OF 9 SHEETS STA. 185+00 TO STA. 215+00

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------|--------------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 11 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60N62 | |



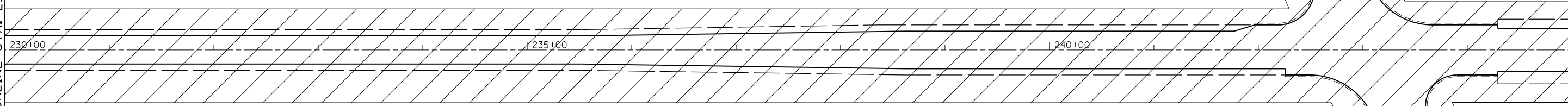
MATCHLINE STA. 215+00

MATCHLINE STA. 230+00



MATCHLINE STA. 230+00

MATCHLINE STA. 245+00



COMPANY NAME: #COMPANY_NAME
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 DATE PLOTTED: 6/9/2014 8:50:42 AM
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| USER NAME = bhartma | DESIGNED - B. HARTMAN | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 1" = 50' | CHECKED - T. HAMILTON | REVISED - |
| PLOT DATE = 6/9/2014 | DATE - 6/9/14 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)

SCALE: 1" = 50' SHEET NO. 5 OF 9 SHEETS STA. 215+00 TO STA. 245+00

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 12 |
| FED. ROAD DIST. NO. | | | CONTRACT NO. 60N62 | |
| ILLINOIS FED. AID PROJECT | | | | |



MATCHLINE STA. 245+00

MATCHLINE STA. 260+00

245+00 250+00 255+00



MATCHLINE STA. 275+00

PROJECT OMISSION
STA 213+00 TO STA 261+00

MATCHLINE STA. 260+00

260+00 265+00 270+00

CL IL RTE 176

W. IVANHOE RD.

HMA SURF REM 2 1/2"
HMA SC "D" N70, 1 1/2"
P LEV BIND MM, IL-4.75, N50, 1"

AGG WEDGE SHLD TYPE B (TYP.)

- LEGEND**
- EXISTING INLET
 - EXISTING CATCH BASIN
 - ⊙ EXISTING MANHOLE
 - E ELECTRIC
 - W WATER
 - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
 - Ⓐ VALVE VAULTS TO BE ADJUSTED
 - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
 - G GAS
 - ⊕ FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
 - Ⓐ FRAMES AND LIDS TO BE ADJUSTED
 - Ⓡ DRAINAGE STRUCTURES TO BE RECONSTRUCTED



COMPANY NAME: #COMPANY_NAME
PROJECT CONTACT: #PROJECT_CONTACT
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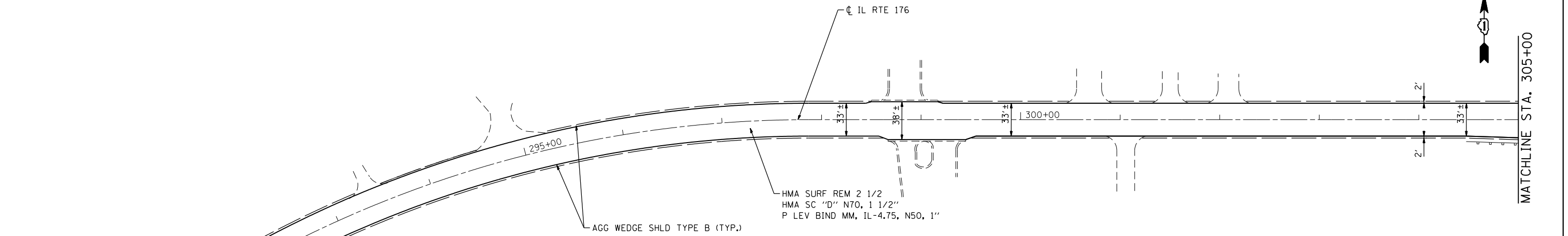
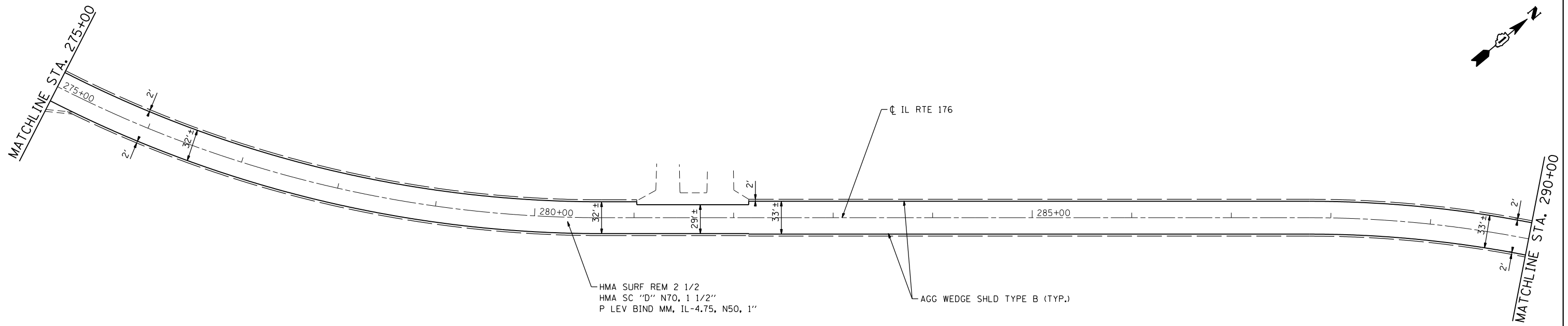
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| | DRAWN - | REVISED - |
| PLOT SCALE = 1" = 50' | CHECKED - T. HAMILTON | REVISED - |
| PLOT DATE = 6/9/2014 | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

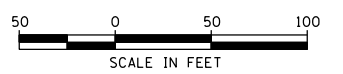
**ROADWAY PLAN
ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

SCALE: 1" = 50' SHEET NO. 6 OF 9 SHEETS STA. 245+00 TO STA. 275+00

| | | | | |
|---|-----------|--------|--------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145X-RS-2 | LAKE | 44 | 13 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60N62 | |



- LEGEND**
- ◻ EXISTING INLET
 - EXISTING CATCH BASIN
 - ⊙ EXISTING MANHOLE
 - E ELECTRIC
 - W WATER
 - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
 - Ⓐ VALVE VAULTS TO BE ADJUSTED
 - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
 - G GAS
 - Ⓢ FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
 - Ⓐ FRAMES AND LIDS TO BE ADJUSTED
 - Ⓜ DRAINAGE STRUCTURES TO BE RECONSTRUCTED



COMPANY NAME: #COMPANY_NAME
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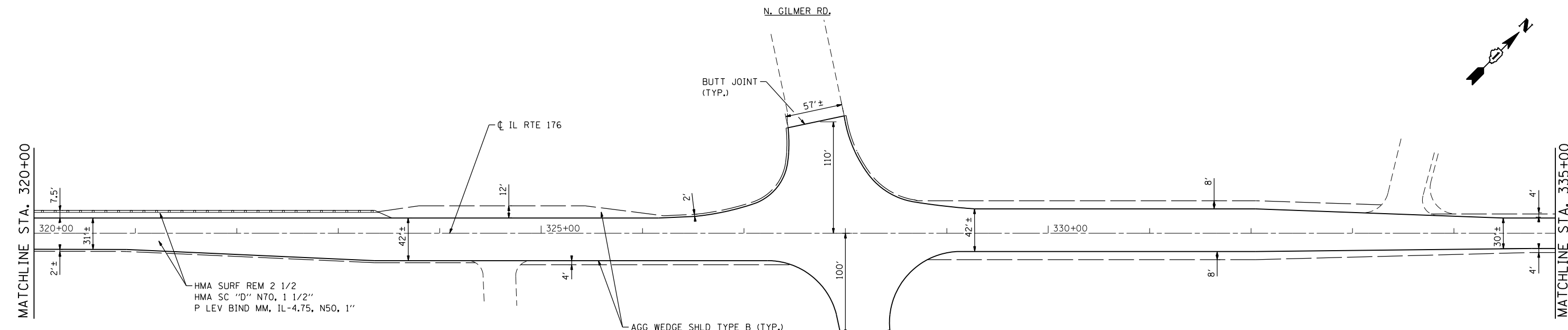
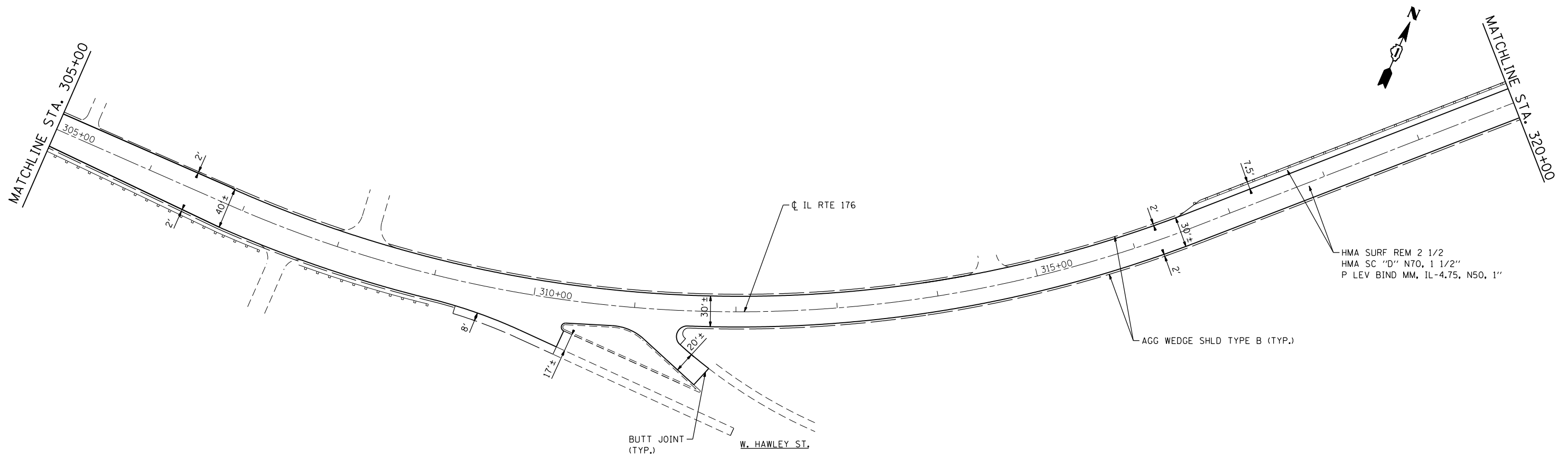
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| USER NAME = bhartha | DESIGNED - B. HARTMAN | REVISED - |
| | DRAWN - | REVISED - |
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| PLOT DATE = 6/9/2014 | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

SCALE: 1" = 50' SHEET NO. 7 OF 9 SHEETS STA. 275+00 TO STA. 305+00

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|--------|---------------------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 14 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |
| | | | CONTRACT NO. 60N62 | |



- LEGEND**
- EXISTING INLET
 - EXISTING CATCH BASIN
 - ⊙ EXISTING MANHOLE
 - E ELECTRIC
 - W WATER
 - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
 - Ⓐ VALVE VAULTS TO BE ADJUSTED
 - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
 - G GAS
 - Ⓢ FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
 - Ⓐ FRAMES AND LIDS TO BE ADJUSTED
 - Ⓡ DRAINAGE STRUCTURES TO BE RECONSTRUCTED



COMPANY NAME: #COMPANY_NAME
 PROJECT CONTACT: #PROJECT_CONTACT
 DATE PLOTTED: 6/9/2014 8:50:56 AM
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 PEN TABLE: standard-trans.tbl



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| USER NAME = bhartma | DESIGNED - B. HARTMAN | REVISED - |
| PLOT SCALE = 1" = 50' | DRAWN - | REVISED - |
| PLOT DATE = 6/9/2014 | CHECKED - T. HAMILTON | REVISED - |
| | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

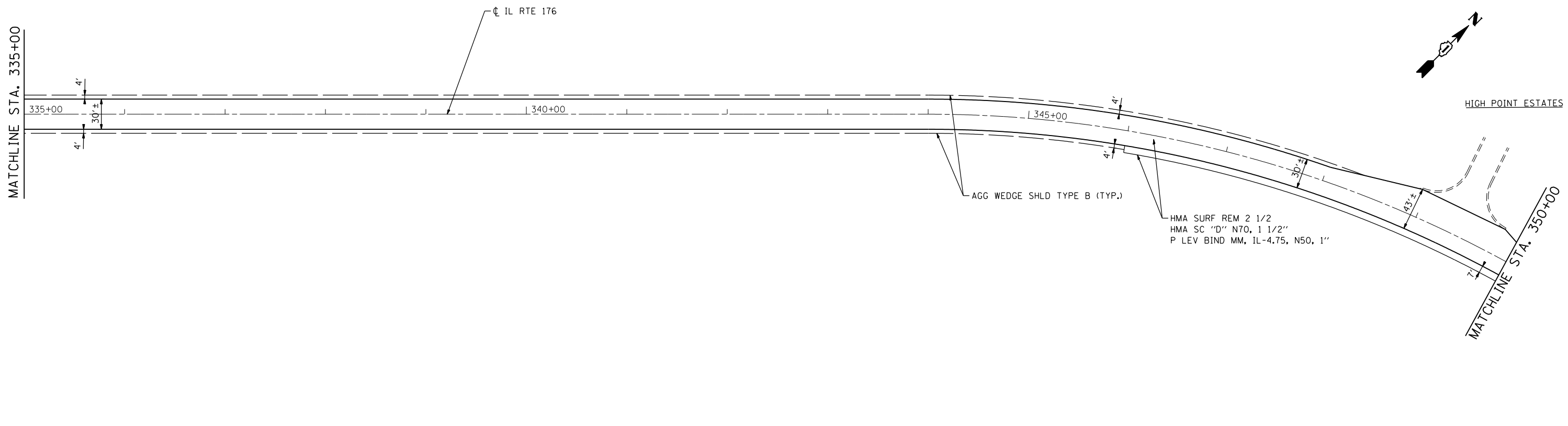
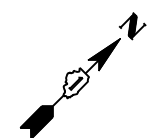
**ROADWAY PLAN
 ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

SCALE: 1" = 50' SHEET NO. 8 OF 9 SHEETS STA. 305+00 TO STA. 335+00

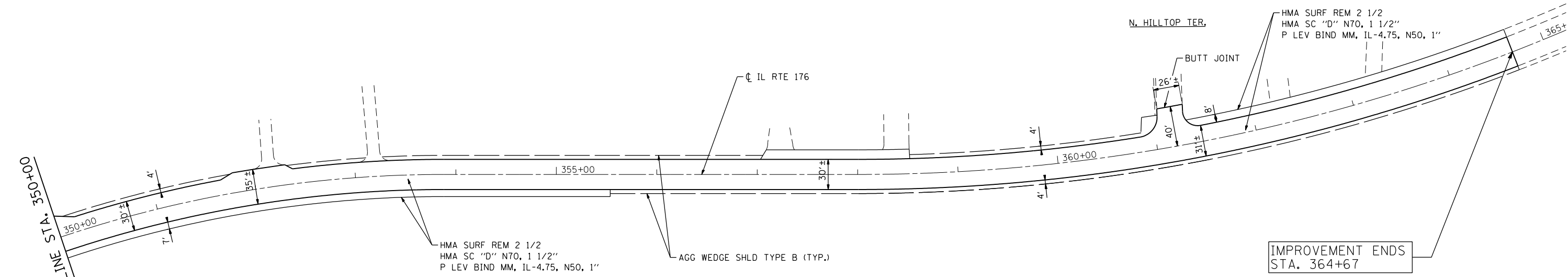
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|---------------------------|--------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 15 |
| CONTRACT NO. | | | 60N62 | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |

MATCHLINE STA. 335+00

HIGH POINT ESTATES



MATCHLINE STA. 350+00



- LEGEND**
- EXISTING INLET
 - EXISTING CATCH BASIN
 - ⊙ EXISTING MANHOLE
 - E ELECTRIC
 - W WATER
 - CE COM ED (ADJUSTMENTS PERFORMED BY OTHERS)
 - Ⓐ VALVE VAULTS TO BE ADJUSTED
 - T TELEPHONE (ADJUSTMENTS PERFORMED BY OTHERS)
 - G GAS
 - ⓈP FRAMES AND LIDS TO BE ADJUSTED, SPECIAL
 - ⒶDJ FRAMES AND LIDS TO BE ADJUSTED
 - ⓈEC DRAINAGE STRUCTURES TO BE RECONSTRUCTED



COMPANY NAME: #COMPANY_NAME
 PROJECT CONTACT: #PROJECT_CONTACT
 DATE PLOTTED: 6/9/2014 8:51:00 AM
 FILE NAME: 86100196.08-plan-09.dgn
 PLOT DRIVER: pdfplot
 PEN TABLE: standard-trans.tbl



| | | |
|-----------------------|-----------------------|-----------|
| USER NAME = bhartma | DESIGNED - B. HARTMAN | REVISED - |
| PLOT SCALE = 1" = 50' | DRAWN - | REVISED - |
| PLOT DATE = 6/9/2014 | CHECKED - T. HAMILTON | REVISED - |
| | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
 ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

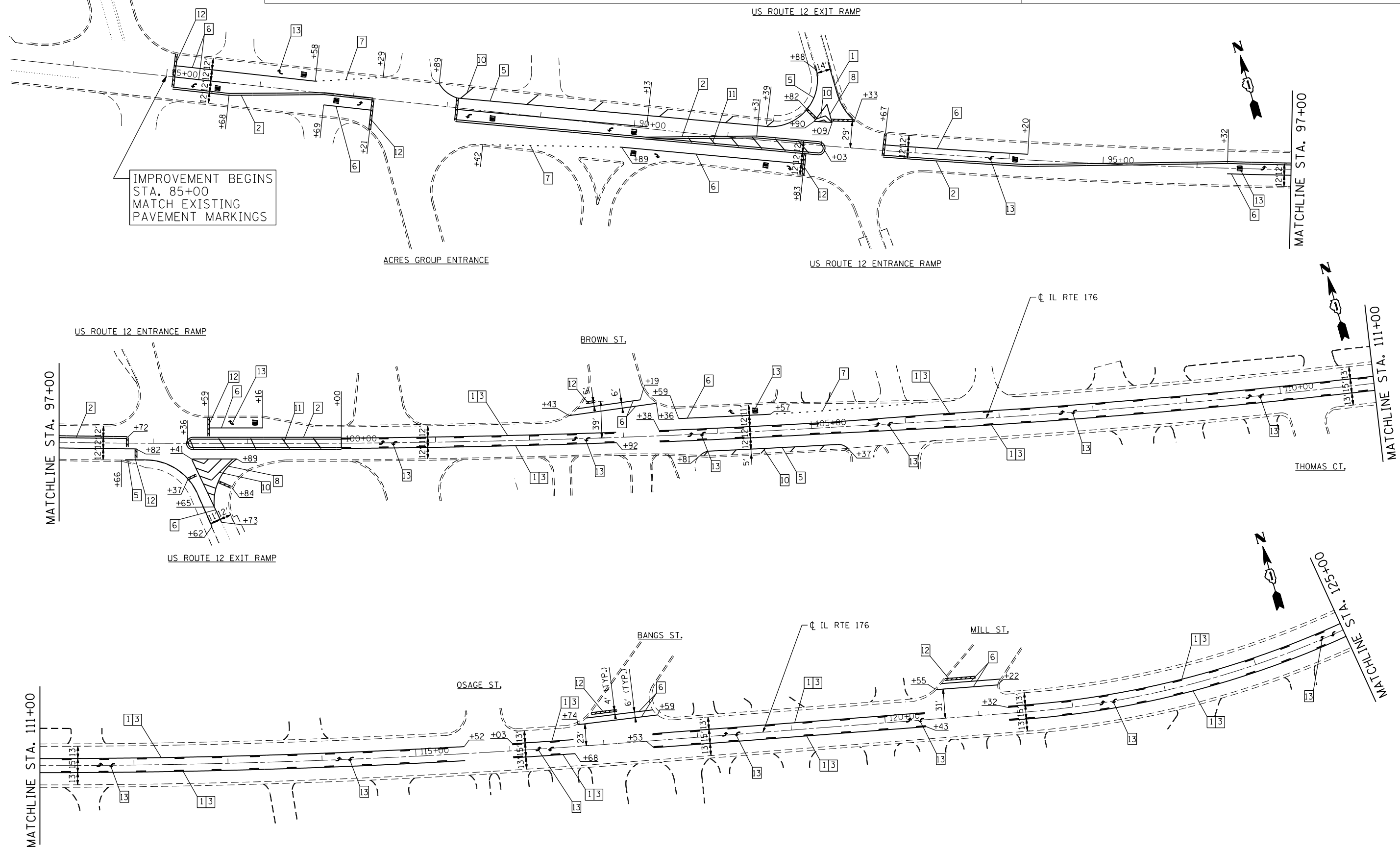
SCALE: 1" = 50' SHEET NO. 9 OF 9 SHEETS STA. 335+00 TO STA. END

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------|--------------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 16 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60N62 | |

| LEGEND | | | | | |
|--------|--|---|--|----|---------------------------------|
| 1 | LINE 4" (YELLOW SOLID LINE) | 5 | LINE 4" (WHITE SOLID LINE) | 10 | LINE 12" (WHITE DIAGONAL LINE) |
| 2 | LINE 4" (DOUBLE YELLOW SOLID LINES) | 6 | LINE 6" (WHITE SOLID LINE) | 11 | LINE 12" (YELLOW DIAGONAL LINE) |
| 3 | LINE 4" (YELLOW - 10' DASH, 30' SKIP) | 7 | LINE 6" (WHITE LANE LINE - 2' DASH, DASH, 6' SKIP) | 12 | LINE 24" (WHITE STOP BAR) |
| 4 | LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) | 8 | LINE 8" (WHITE SOLID LINE) | 13 | LETTERS AND SYMBOLS (TYP.) |
| | | 9 | LINE 12" (WHITE SOLID LINE) | | |

NOTES:

- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11.



COMPANY NAME: #COMPANY_NAME
 PROJECT CONTACT: #PROJECT_CONTACT
 DATE PLOTTED: 6/9/2014 8:51:04 AM
 FILE NAME: 86100196.08-pm-01.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: standard-trans.tbl



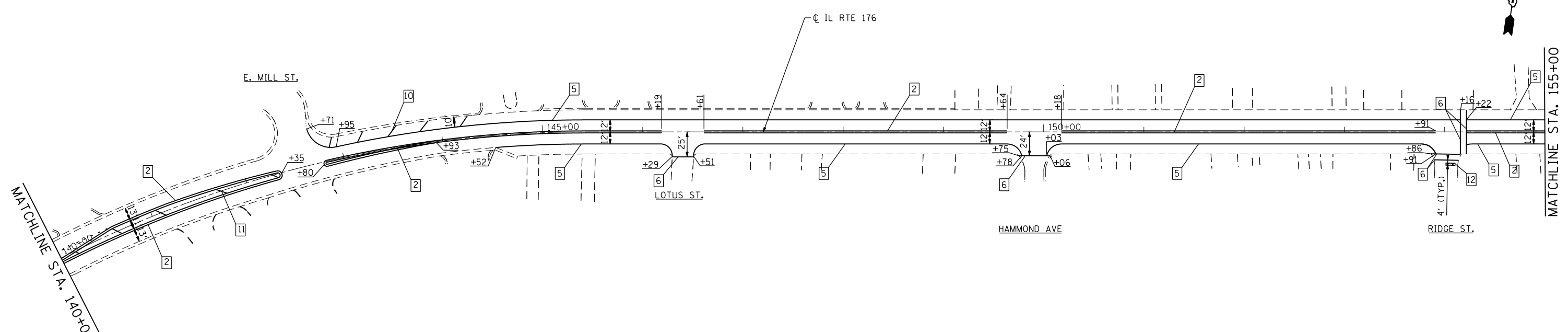
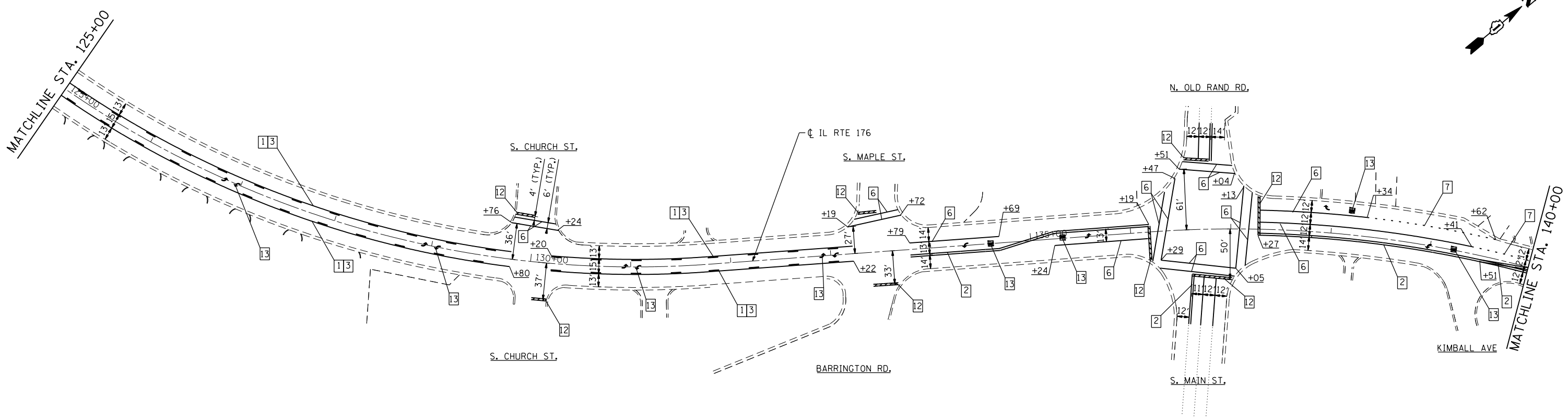
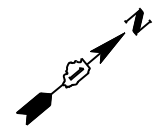
| | | |
|-----------------------|-----------------------|-----------|
| USER NAME = bhartha | DESIGNED - B. HARTMAN | REVISED - |
| PLOT SCALE = 1" = 50' | DRAWN - | REVISED - |
| PLOT DATE = 6/9/2014 | CHECKED - T. HAMILTON | REVISED - |
| | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
 ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

SCALE: 1" = 50' SHEET NO. 1 OF 9 SHEETS STA. BEGIN TO STA. 125+00

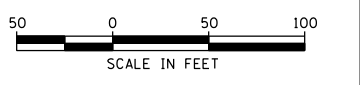
| | | | | |
|---|-------------------|-------------|--------------------|--------------|
| F.A. RTE. 335 | SECTION 145X-RS-2 | COUNTY LAKE | TOTAL SHEETS 44 | SHEET NO. 17 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60N62 | |



| LEGEND | |
|--------|--|
| 1 | LINE 4" (YELLOW SOLID LINE) |
| 2 | LINE 4" (DOUBLE YELLOW SOLID LINES) |
| 3 | LINE 4" (YELLOW - 10' DASH, 30' SKIP) |
| 4 | LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) |
| 5 | LINE 4" (WHITE SOLID LINE) |
| 6 | LINE 6" (WHITE SOLID LINE) |
| 7 | LINE 6" (WHITE LANE LINE - 2' DASH, DASH, 6' SKIP) |
| 8 | LINE 8" (WHITE SOLID LINE) |
| 9 | LINE 12" (WHITE SOLID LINE) |
| 10 | LINE 12" (WHITE DIAGONAL LINE) |
| 11 | LINE 12" (YELLOW DIAGONAL LINE) |
| 12 | LINE 24" (WHITE STOP BAR) |
| 13 | LETTERS AND SYMBOLS (TYP.) |

NOTES:

- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11.



COMPANY NAME: #COMPANY_NAME
 PROJECT CONTACT: #PROJECT_CONTACT
 DATE PLOTTED: 6/9/2014 8:51:12 AM
 FILE NAME: 86100196.08-pm-02.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: standard-trans.tbl



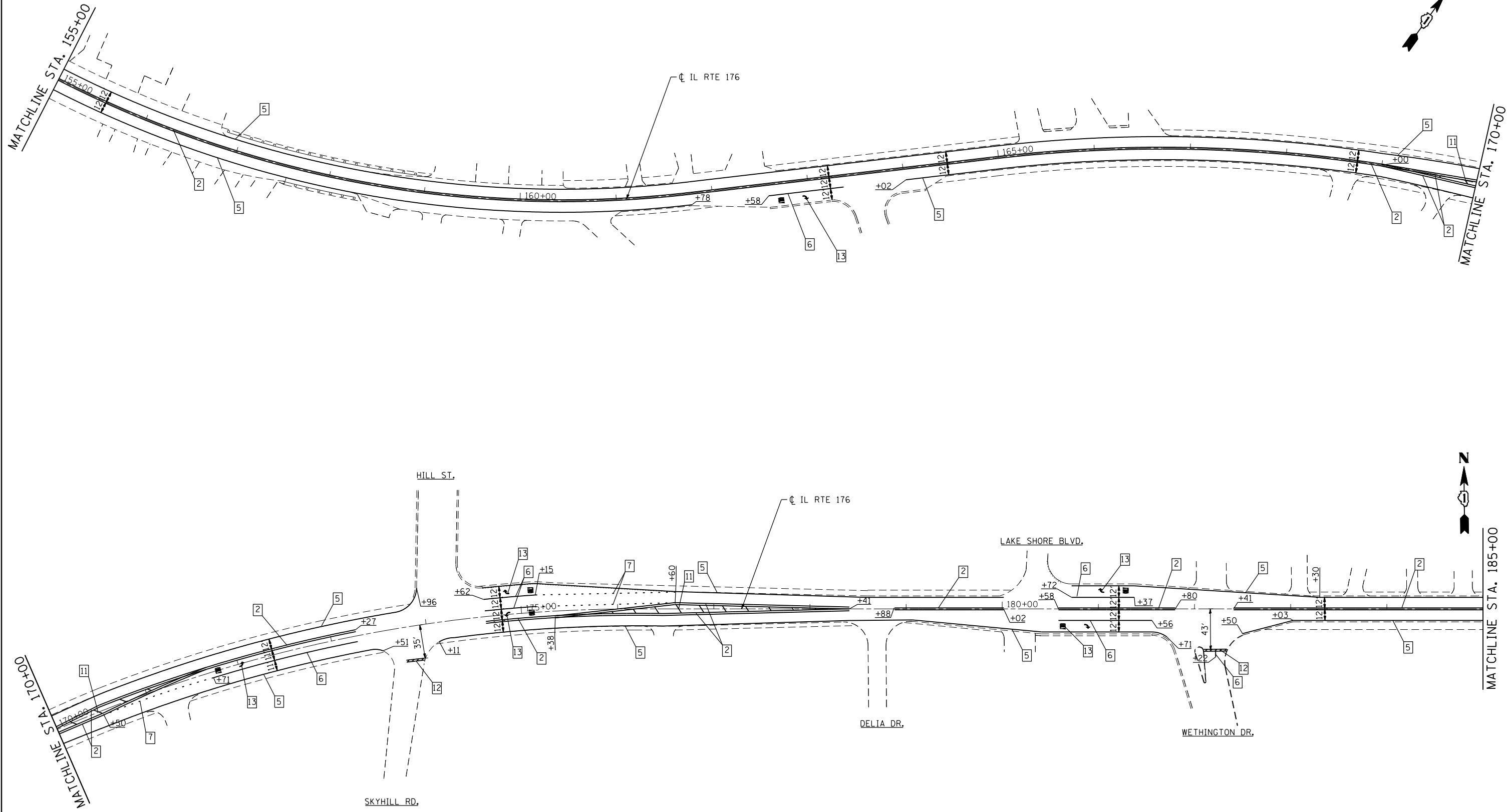
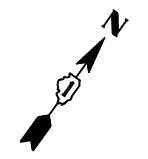
| | | |
|-----------------------|-----------------------|-----------|
| USER NAME = bhartma | DESIGNED - B. HARTMAN | REVISED - |
| PLOT SCALE = 1" = 50' | DRAWN - | REVISED - |
| PLOT DATE = 6/9/2014 | CHECKED - T. HAMILTON | REVISED - |
| | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
 ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

SCALE: 1" = 50' SHEET NO. 2 OF 9 SHEETS STA. 125+00 TO STA. 155+00

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------|--------------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 18 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60N62 | |



| LEGEND | |
|--------|--|
| 1 | LINE 4" (YELLOW SOLID LINE) |
| 2 | LINE 4" (DOUBLE YELLOW SOLID LINES) |
| 3 | LINE 4" (YELLOW - 10' DASH, 30' SKIP) |
| 4 | LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) |
| 5 | LINE 4" (WHITE SOLID LINE) |
| 6 | LINE 6" (WHITE SOLID LINE) |
| 7 | LINE 6" (WHITE LANE LINE - 2' DASH, DASH, 6' SKIP) |
| 8 | LINE 8" (WHITE SOLID LINE) |
| 9 | LINE 12" (WHITE SOLID LINE) |
| 10 | LINE 12" (WHITE DIAGONAL LINE) |
| 11 | LINE 12" (YELLOW DIAGONAL LINE) |
| 12 | LINE 24" (WHITE STOP BAR) |
| 13 | LETTERS AND SYMBOLS (TYP.) |

NOTES:

- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11.



COMPANY NAME: #COMPANY_NAME/
 PROJECT CONTACT: #PROJECT_CONTACT/
 DATE PLOTTED: 6/9/2014 8:56:16 AM
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 PLOT DRIVER: pdfcut
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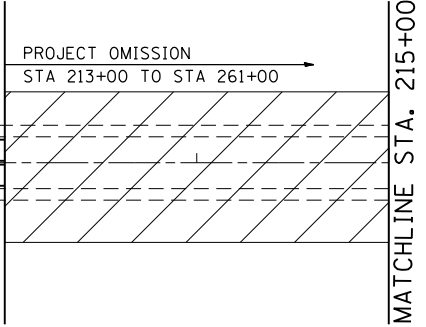
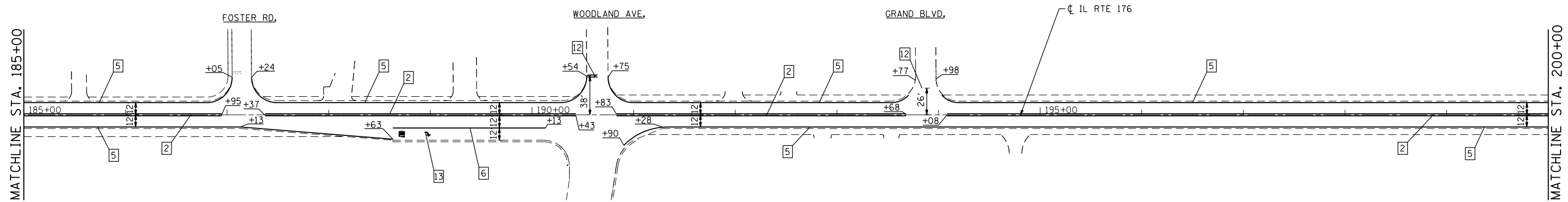
| | | |
|-----------------------|-----------------------|-----------|
| USER NAME = bhartma | DESIGNED - B. HARTMAN | REVISED - |
| PLOT SCALE = 1" = 50' | DRAWN - | REVISED - |
| PLOT DATE = 6/9/2014 | CHECKED - T. HAMILTON | REVISED - |
| | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
 ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

SCALE: 1" = 50' SHEET NO. 3 OF 9 SHEETS STA. 155+00 TO STA. 185+00

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------|--------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 19 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. | 60N62 |



| LEGEND | | | | | |
|--------|--|---|--|----|---------------------------------|
| 1 | LINE 4" (YELLOW SOLID LINE) | 5 | LINE 4" (WHITE SOLID LINE) | 10 | LINE 12" (WHITE DIAGONAL LINE) |
| 2 | LINE 4" (DOUBLE YELLOW SOLID LINES) | 6 | LINE 6" (WHITE SOLID LINE) | 11 | LINE 12" (YELLOW DIAGONAL LINE) |
| 3 | LINE 4" (YELLOW - 10' DASH, 30' SKIP) | 7 | LINE 6" (WHITE LANE LINE - 2' DASH, DASH, 6' SKIP) | 12 | LINE 24" (WHITE STOP BAR) |
| 4 | LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) | 8 | LINE 8" (WHITE SOLID LINE) | 13 | LETTERS AND SYMBOLS (TYP.) |
| | | 9 | LINE 12" (WHITE SOLID LINE) | | |

- NOTES:**
- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
 - RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11.



COMPANY NAME: #COMPANY_NAME
 PROJECT CONTACT: #PROJECT_CONTACT
 DATE PLOTTED: 6/9/2014 8:51:20 AM
 FILE NAME: 86100196.08-pm-04.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: standard-trans.tbl



| | | |
|-----------------------|-----------------------|-----------|
| USER NAME = bhartha | DESIGNED - B. HARTMAN | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 1" = 50' | CHECKED - T. HAMILTON | REVISED - |
| PLOT DATE = 6/9/2014 | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
 ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

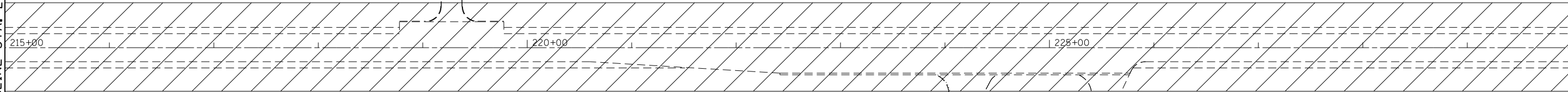
SCALE: 1" = 50' SHEET NO. 4 OF 9 SHEETS STA. 185+00 TO STA. 215+00

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------|--------------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 20 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60N62 | |



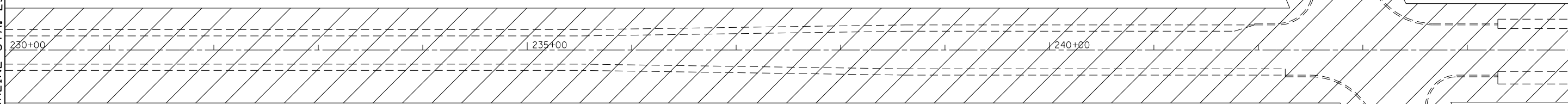
MATCHLINE STA. 215+00

MATCHLINE STA. 230+00



MATCHLINE STA. 230+00

MATCHLINE STA. 245+00



COMPANY NAME: #COMPANY_NAME
 PROJECT CONTACT: #PROJECT_CONTACT
 DATE PLOTTED: 6/9/2014 8:51:23 AM
 FILE NAME: 86100196.08-pm-05.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: standard-trans.tbl



| | | |
|-----------------------|-----------------------|-----------|
| USER NAME = bhartma | DESIGNED - B. HARTMAN | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 1" = 50' | CHECKED - T. HAMILTON | REVISED - |
| PLOT DATE = 6/9/2014 | DATE - 6/9/14 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)

SCALE: 1" = 50' SHEET NO. 5 OF 9 SHEETS STA. 215+00 TO STA. 245+00

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------|--------|--------------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 21 |
| FED. ROAD DIST. NO. | | | CONTRACT NO. 60N62 | |
| ILLINOIS FED. AID PROJECT | | | | |



MATCHLINE STA. 245+00

MATCHLINE STA. 260+00

245+00 250+00 255+00



MATCHLINE STA. 275+00

PROJECT OMISSION
STA 213+00 TO STA 261+00

MATCHLINE STA. 260+00

260+00 265+00 270+00

IL RTE 176

W. IVANHOE RD.

LEGEND

- | | | |
|--|--|------------------------------------|
| 1 LINE 4" (YELLOW SOLID LINE) | 5 LINE 4" (WHITE SOLID LINE) | 10 LINE 12" (WHITE DIAGONAL LINE) |
| 2 LINE 4" (DOUBLE YELLOW SOLID LINES) | 6 LINE 6" (WHITE SOLID LINE) | 11 LINE 12" (YELLOW DIAGONAL LINE) |
| 3 LINE 4" (YELLOW - 10' DASH, 30' SKIP) | 7 LINE 6" (WHITE LANE LINE - 2' DASH, DASH, 6' SKIP) | 12 LINE 24" (WHITE STOP BAR) |
| 4 LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) | 8 LINE 8" (WHITE SOLID LINE) | 13 LETTERS AND SYMBOLS (TYP.) |
| | 9 LINE 12" (WHITE SOLID LINE) | |

NOTES:

- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11.



COMPANY NAME: #COMPANY_NAME
 PROJECT CONTACT: #PROJECT_CONTACT
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 FILE NAME: 86100196.08-pm-06.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: standard-trans.tbl



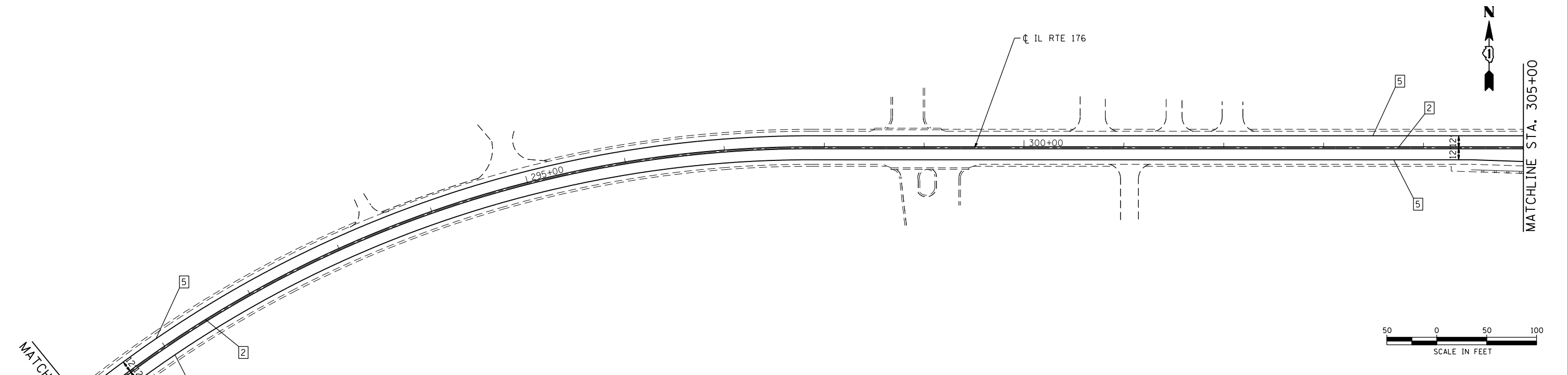
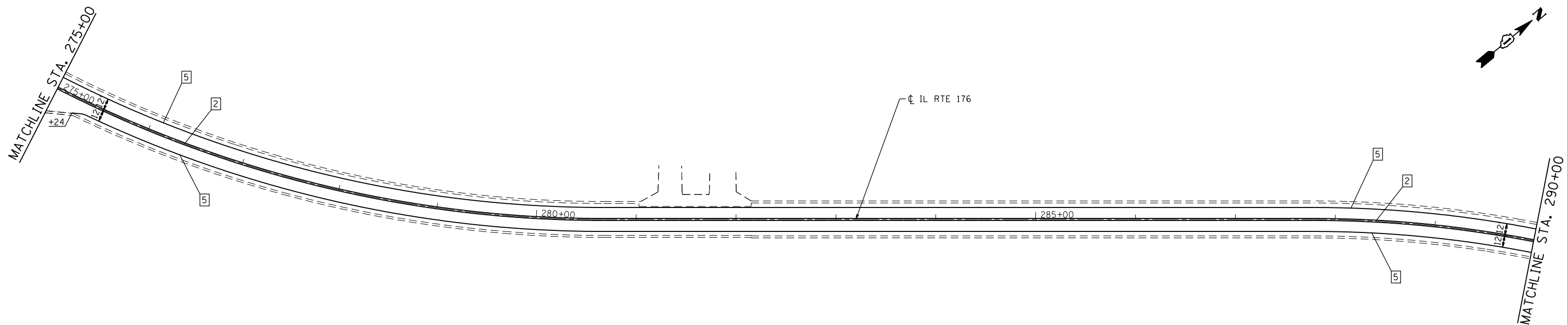
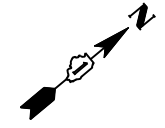
| | | |
|-----------------------|-----------------------|-----------|
| USER NAME = bhartma | DESIGNED - B. HARTMAN | REVISED - |
| PLOT SCALE = 1" = 50' | DRAWN - | REVISED - |
| PLOT DATE = 6/9/2014 | CHECKED - T. HAMILTON | REVISED - |
| | DATE - 6/9/14 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING PLAN
ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)

SCALE: 1" = 50' SHEET NO. 6 OF 9 SHEETS STA. 245+00 TO STA. 275+00

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|--------|---------------------------|--------------------|
| 335 | 145X-RS-2 | LAKE | 44 | 22 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | CONTRACT NO. 60N62 |



| LEGEND | | | | | |
|--------|--|---|--|----|---------------------------------|
| 1 | LINE 4" (YELLOW SOLID LINE) | 5 | LINE 4" (WHITE SOLID LINE) | 10 | LINE 12" (WHITE DIAGONAL LINE) |
| 2 | LINE 4" (DOUBLE YELLOW SOLID LINES) | 6 | LINE 6" (WHITE SOLID LINE) | 11 | LINE 12" (YELLOW DIAGONAL LINE) |
| 3 | LINE 4" (YELLOW - 10' DASH, 30' SKIP) | 7 | LINE 6" (WHITE LANE LINE - 2' DASH, DASH, 6' SKIP) | 12 | LINE 24" (WHITE STOP BAR) |
| 4 | LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) | 8 | LINE 8" (WHITE SOLID LINE) | 13 | LETTERS AND SYMBOLS (TYP.) |
| | | 9 | LINE 12" (WHITE SOLID LINE) | | |

NOTES:

- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11.

COMPANY NAME: #COMPANY_NAME
 PROJECT CONTACT: #PROJECT_CONTACT
 DATE PLOTTED: 6/9/2014 8:51:50 AM
 FILE NAME: 86100196.08-pm-07.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: standard-trans.tbl



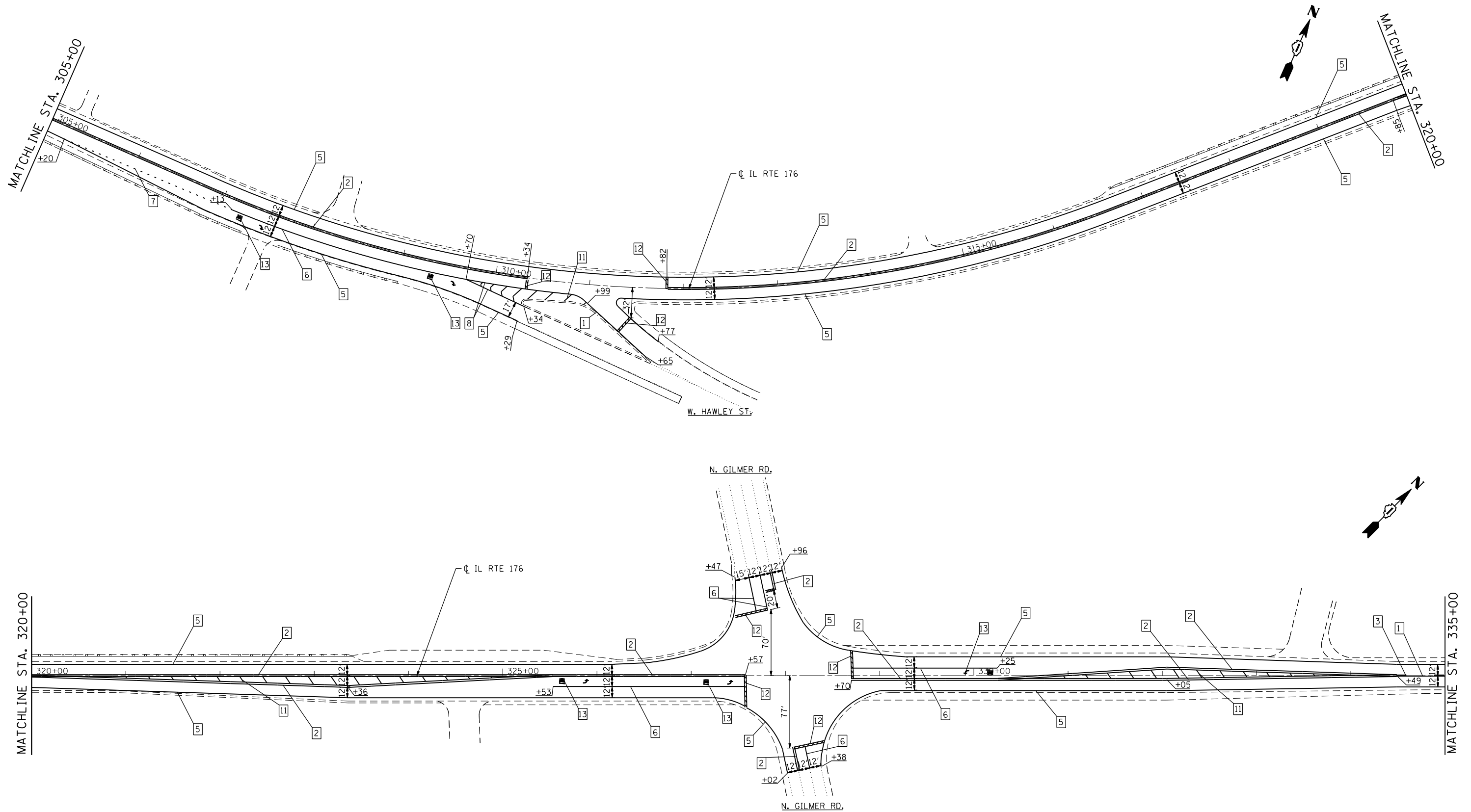
| | | |
|-----------------------|-----------------------|-----------|
| USER NAME = bhartm | DESIGNED - B. HARTMAN | REVISED - |
| PLOT SCALE = 1" = 50' | CHECKED - T. HAMILTON | REVISED - |
| PLOT DATE = 6/9/2014 | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
 ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

SCALE: 1" = 50' SHEET NO. 7 OF 9 SHEETS STA. 275+00 TO STA. 305+00

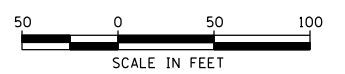
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|---------------------------|--------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 23 |
| CONTRACT NO. | | | 60N62 | |
| FED. ROAD DIST. NO. | | ILLINOIS FED. AID PROJECT | | |



| LEGEND | | | |
|--------|--|----|--|
| 1 | LINE 4" (YELLOW SOLID LINE) | 5 | LINE 4" (WHITE SOLID LINE) |
| 2 | LINE 4" (DOUBLE YELLOW SOLID LINES) | 6 | LINE 6" (WHITE SOLID LINE) |
| 3 | LINE 4" (YELLOW - 10' DASH, 30' SKIP) | 7 | LINE 6" (WHITE LANE LINE - 2' DASH, DASH, 6' SKIP) |
| 4 | LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) | 8 | LINE 8" (WHITE SOLID LINE) |
| | | 9 | LINE 12" (WHITE SOLID LINE) |
| | | 10 | LINE 12" (WHITE DIAGONAL LINE) |
| | | 11 | LINE 12" (YELLOW DIAGONAL LINE) |
| | | 12 | LINE 24" (WHITE STOP BAR) |
| | | 13 | LETTERS AND SYMBOLS (TYP.) |

NOTES:

- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11.



COMPANY NAME: #COMPANY_NAME
 PROJECT CONTACT: #PROJECT_CONTACT
 DATE PLOTTED: 6/9/2014 8:51:33 AM
 FILE NAME: 86100196.08-pm-08.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: standard-trans.tbl



| | | |
|-----------------------|-----------------------|-----------|
| USER NAME = bhartha | DESIGNED - B. HARTMAN | REVISED - |
| PLOT SCALE = 1" = 50' | DRAWN - | REVISED - |
| PLOT DATE = 6/9/2014 | CHECKED - T. HAMILTON | REVISED - |
| | DATE - 6/9/14 | REVISED - |

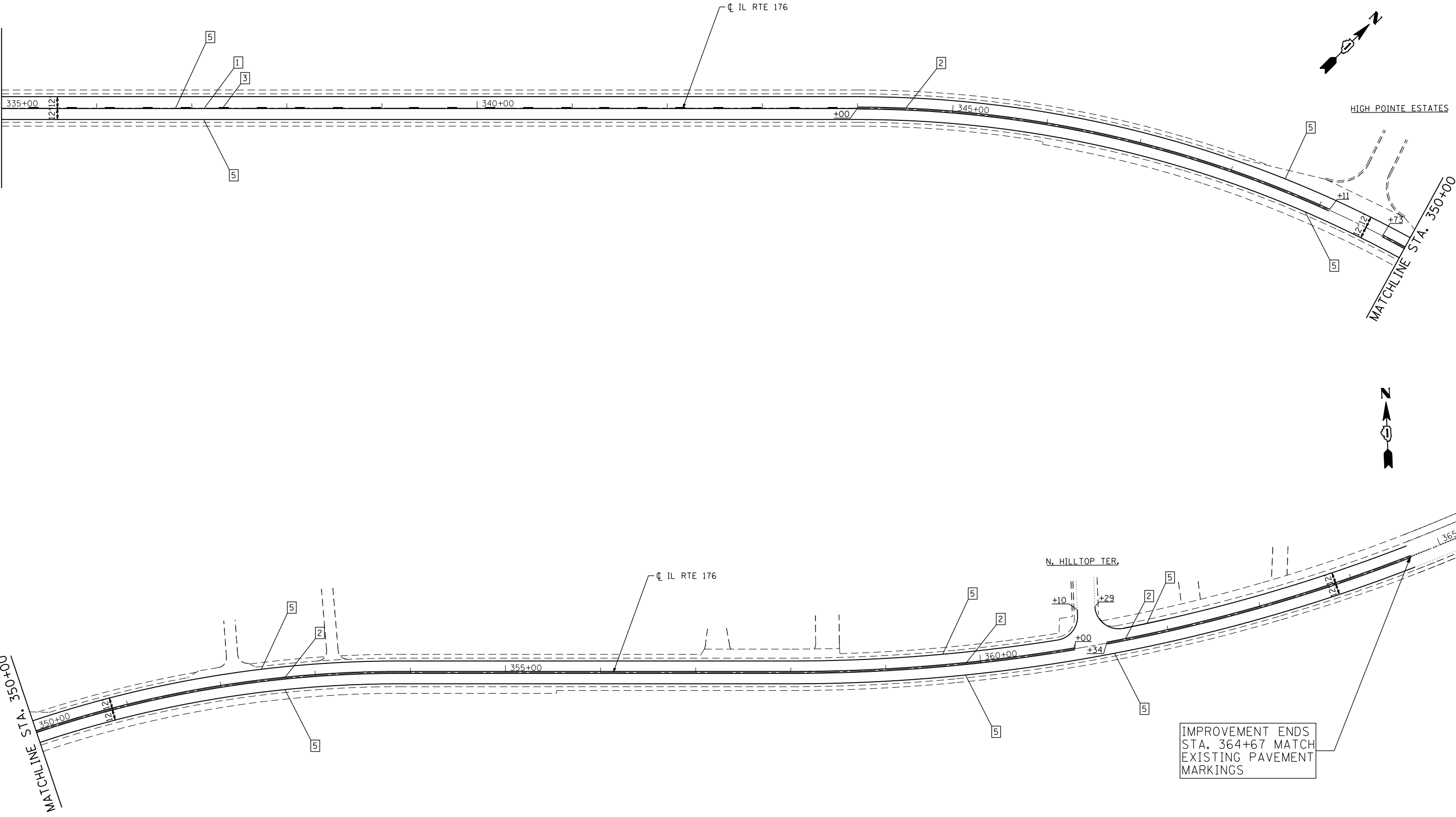
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
 ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

SCALE: 1" = 50' SHEET NO. 8 OF 9 SHEETS STA. 305+00 TO STA. 335+00

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|--------|---------------------------|---------------------|
| 335 | 145X-RS-2 | LAKE | 44 | 24 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | CONTRACT NO. 60NG62 |

MATCHLINE STA. 335+00



HIGH POINTE ESTATES

MATCHLINE STA. 350+00

N. HILLTOP TER.

IMPROVEMENT ENDS
STA. 364+67 MATCH
EXISTING PAVEMENT
MARKINGS

| LEGEND | |
|--------|--|
| 1 | LINE 4" (YELLOW SOLID LINE) |
| 2 | LINE 4" (DOUBLE YELLOW SOLID LINES) |
| 3 | LINE 4" (YELLOW - 10' DASH, 30' SKIP) |
| 4 | LINE 4" (WHITE LANE LINE - 10' DASH, 30' SKIP) |
| 5 | LINE 4" (WHITE SOLID LINE) |
| 6 | LINE 6" (WHITE SOLID LINE) |
| 7 | LINE 6" (WHITE LANE LINE - 2' DASH, DASH, 6' SKIP) |
| 8 | LINE 8" (WHITE SOLID LINE) |
| 9 | LINE 12" (WHITE SOLID LINE) |
| 10 | LINE 12" (WHITE DIAGONAL LINE) |
| 11 | LINE 12" (YELLOW DIAGONAL LINE) |
| 12 | LINE 24" (WHITE STOP BAR) |
| 13 | LETTERS AND SYMBOLS (TYP.) |

NOTES:

- ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
- RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE USED THROUGHOUT THE PROJECT LIMITS. SEE DISTRICT DETAIL TC-11.



COMPANY NAME: #COMPANY_NAME
 PROJECT CONTACT: #PROJECT_CONTACT
 DATE PLOTTED: 6/9/2014 8:51:58 AM
 FILE NAME: 86100196.08-pm-09.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: standard-trans.tbl



| | | |
|-----------------------|-----------------------|-----------|
| USER NAME = bhartma | DESIGNED - B. HARTMAN | REVISED - |
| PLOT SCALE = 1" = 50' | CHECKED - T. HAMILTON | REVISED - |
| PLOT DATE = 6/9/2014 | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT MARKING PLAN
ILLINOIS ROUTE 176 (US ROUTE 12 TO HILLTOP TER.)**

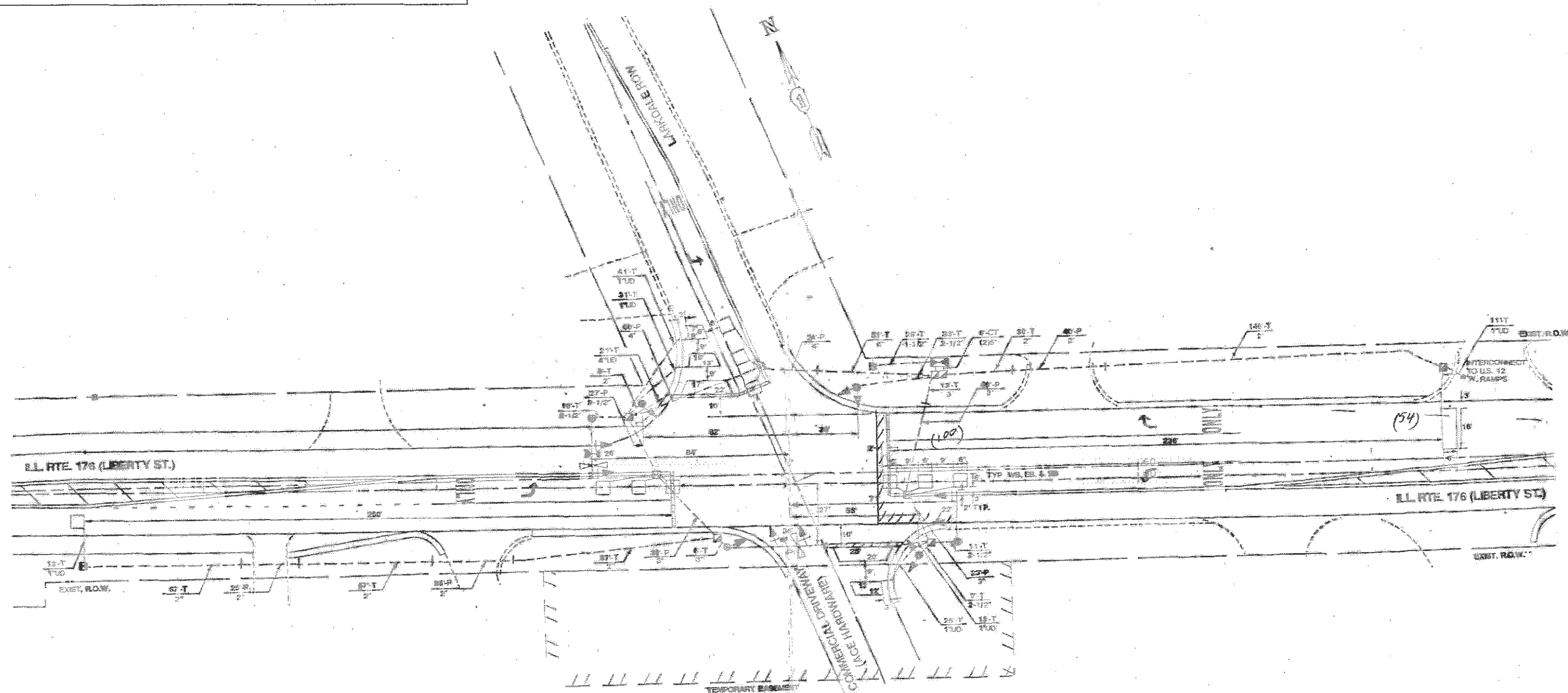
SCALE: 1" = 50' SHEET NO. 9 OF 9 SHEETS STA. 335+00 TO STA. END

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------|-----------|--------|---------------------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 25 |
| FED. ROAD DIST. NO. | | | ILLINOIS FED. AID PROJECT | |
| | | | CONTRACT NO. | 60N62 |

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC SIGNAL LEGEND

| | PROPOSED | EXISTING |
|--|----------|----------|
| SIGNAL HEAD WITH BACKPLATE | — | — |
| SIGNAL HEAD | — | — |
| GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED | — | — |
| DETECTOR LOOP | □ | □ |
| VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE | — | — |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | — | — |



**THIS PLAN IS FOR THE SOLE PURPOSE OF
DETECTOR LOOP REPLACEMENTS ONLY**

**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

| CODE | QUANTITY | UNIT | ITEM |
|----------|----------|------|----------------------------|
| 88600600 | 154 | FOOT | DETECTOR LOOP, REPLACEMENT |

COMPANY NAME: #COMPANY_NAME
PROJECT CONTACT: #PROJECT_CONTACT
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| | DRAWN - | REVISED - |
| PLOT SCALE = N.T.S. | CHECKED - | REVISED - |
| PLOT DATE = 6/9/2014 | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - DETECTOR LOOP REPLACEMENT
ILLINOIS ROUTE 176 @ LARKDALE ROW**

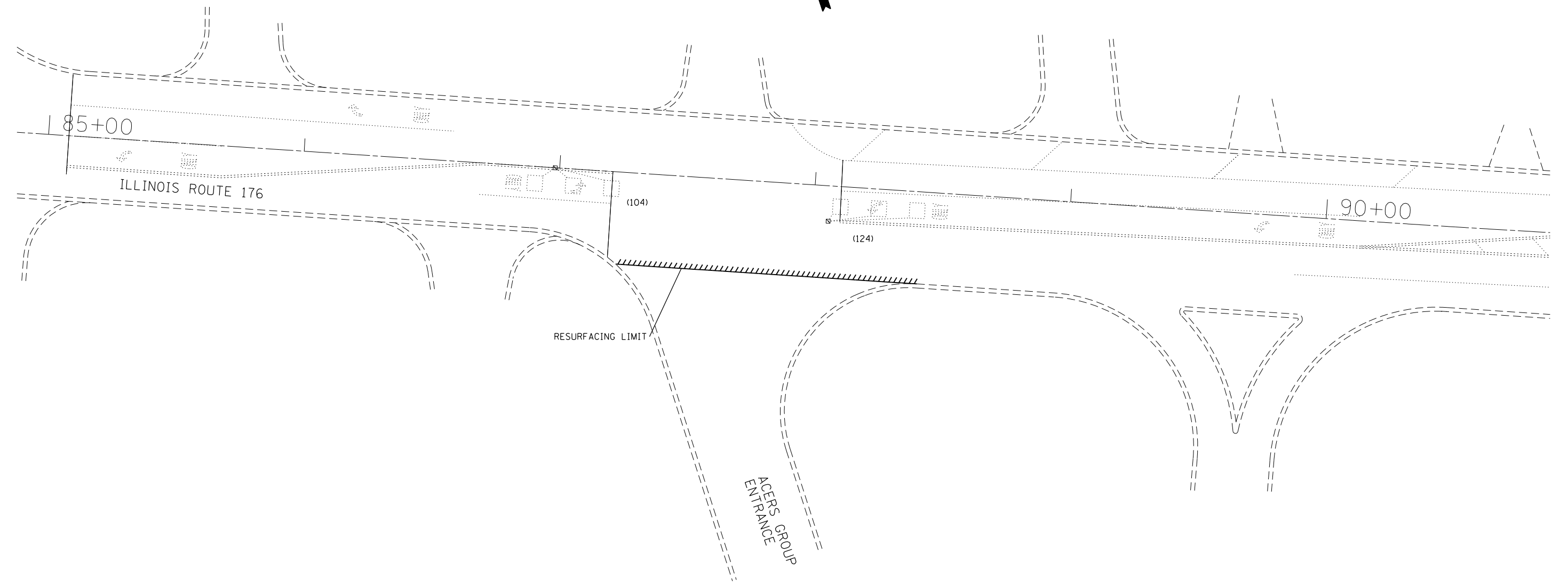
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| | | | | |
|---|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145X-RS-2 | LAKE | 44 | 26 |
| CONTRACT NO. | | | 60N62 | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC SIGNAL LEGEND

| | PROPOSED | EXISTING |
|---|----------|----------|
| DETECTOR LOOP | | |
| SIGNAL HEAD | | |
| G.S. CONDUIT IN TRENCH OR PUSHED | | |
| SIGNAL HEAD WITH BACKPLATE | | |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR II | | |
| VEHICLE DETECTOR, NON-COMPENSATED MAGNETIC TYPE | | |



REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)

| CODE | QUANTITY | UNIT | ITEM |
|----------|----------|------|---------------------------|
| 86600600 | 228 | FOOT | DETECTOR LOOP REPLACEMENT |

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| PLOT DATE = 6/9/2014 | DATE - 6/9/14 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - DETECTOR LOOP REPLACEMENT
ILLINOIS ROUTE 176 @ ACERS GROUP ENTRANCE**

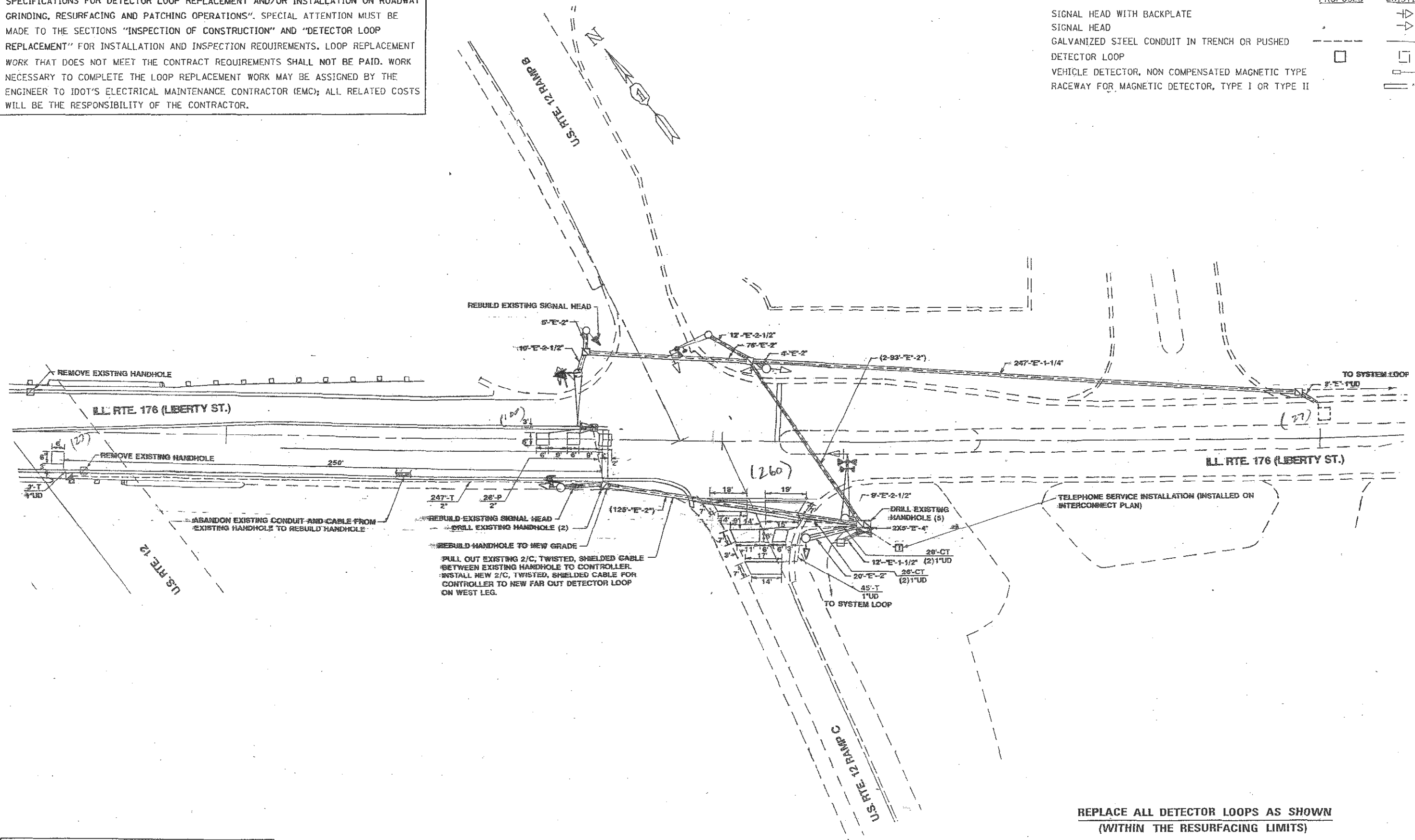
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------|--------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 27 |
| CONTRACT NO. 60N62 | | | | |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | | |

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC SIGNAL LEGEND

| | PROPOSED | EXISTING |
|--|----------|----------|
| SIGNAL HEAD WITH BACKPLATE | | |
| SIGNAL HEAD | | |
| GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED | | |
| DETECTOR LOOP | | |
| VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE | | |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | |



THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENTS ONLY

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

| CODE | QUANTITY | UNIT | ITEM |
|----------|----------|------|----------------------------|
| 88600600 | 414 | FOOT | DETECTOR LOOP, REPLACEMENT |

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - DETECTOR LOOP REPLACEMENT
 ILLINOIS ROUTE 176 @ U.S. 12 WEST RAMPS**

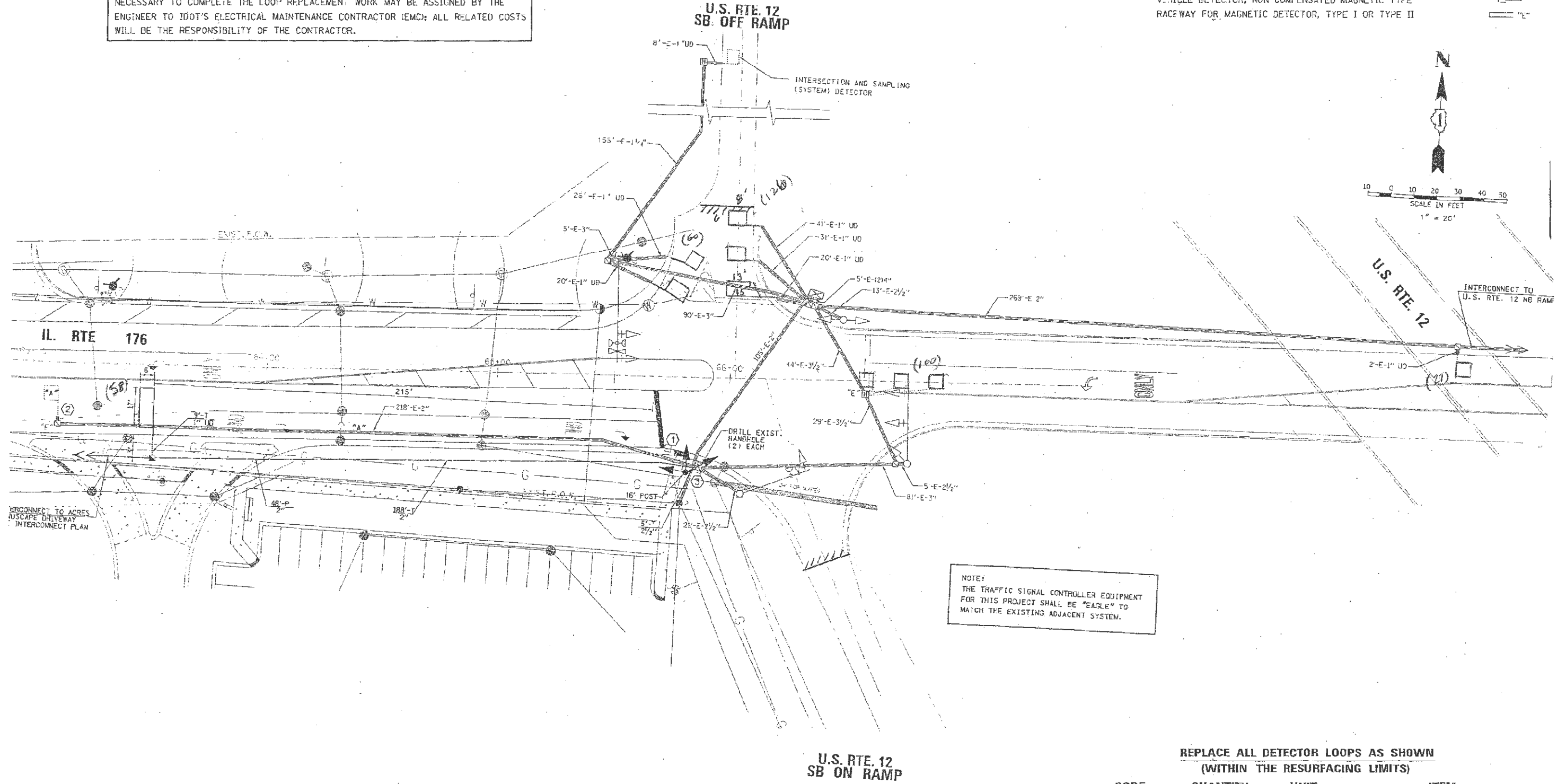
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| | | | | |
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| F.A. RTE. 335 | SECTION 145X-RS-2 | COUNTY LAKE | TOTAL SHEETS 44 | SHEET NO. 28 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60N62 | |

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC SIGNAL LEGEND

| | PROPOSED | EXISTING |
|--|----------|----------|
| SIGNAL HEAD WITH BACKPLATE | | |
| SIGNAL HEAD | | |
| GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED | | |
| DETECTOR LOOP | | |
| VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE | | |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | | |



NOTE:
THE TRAFFIC SIGNAL CONTROLLER EQUIPMENT FOR THIS PROJECT SHALL BE "EAGLE" TO MATCH THE EXISTING ADJACENT SYSTEM.

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

| CODE | QUANTITY | UNIT | ITEM |
|----------|----------|------|----------------------------|
| 88600600 | 371 | FOOT | DETECTOR LOOP, REPLACEMENT |

COMPANY NAME: #COMPANY_NAME
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DATE PLOTTED: 6/9/2014 8:52:17 AM
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| | DRAWN - | REVISED - |
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| PLOT DATE = 6/9/2014 | DATE = 6/9/14 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - DETECTOR LOOP REPLACEMENT
ILLINOIS ROUTE 176 @ U.S. 12 EAST RAMPS**

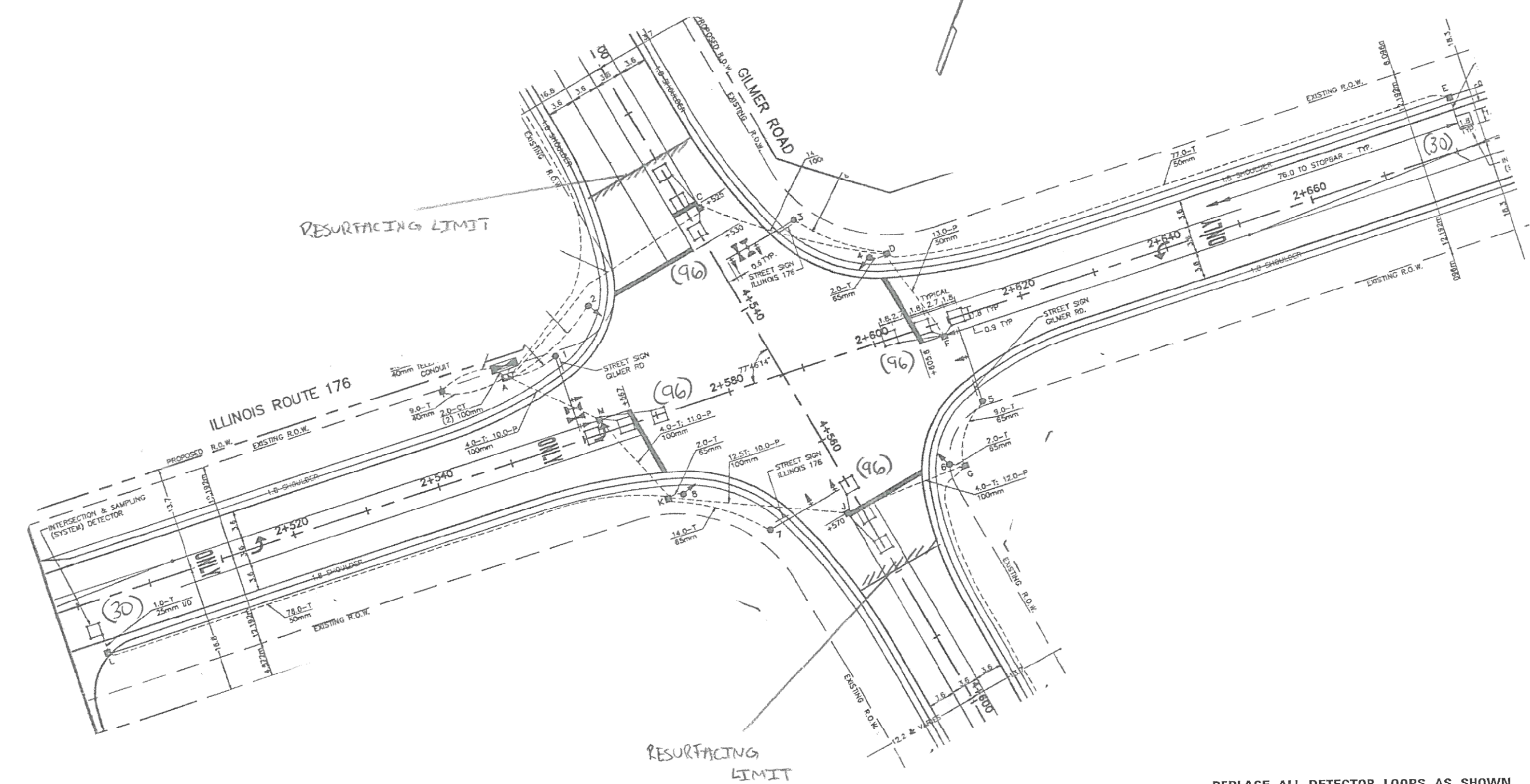
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| F.A. RTE. 335 | SECTION 145X-RS-2 | COUNTY LAKE | TOTAL SHEETS 44 | SHEET NO. 29 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60N62 | |

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.

TRAFFIC SIGNAL LEGEND

| PROPOSED | EXISTING |
|--|----------|
| SIGNAL HEAD WITH BACKPLATE | |
| SIGNAL HEAD | |
| GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED | |
| DETECTOR LOOP | |
| VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE | |
| RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II | |



**THIS PLAN IS FOR THE SOLE PURPOSE OF
DETECTOR LOOP REPLACEMENTS ONLY**

**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

| CODE | QUANTITY | UNIT | ITEM |
|----------|----------|------|----------------------------|
| 88600600 | 444 | FOOT | DETECTOR LOOP, REPLACEMENT |

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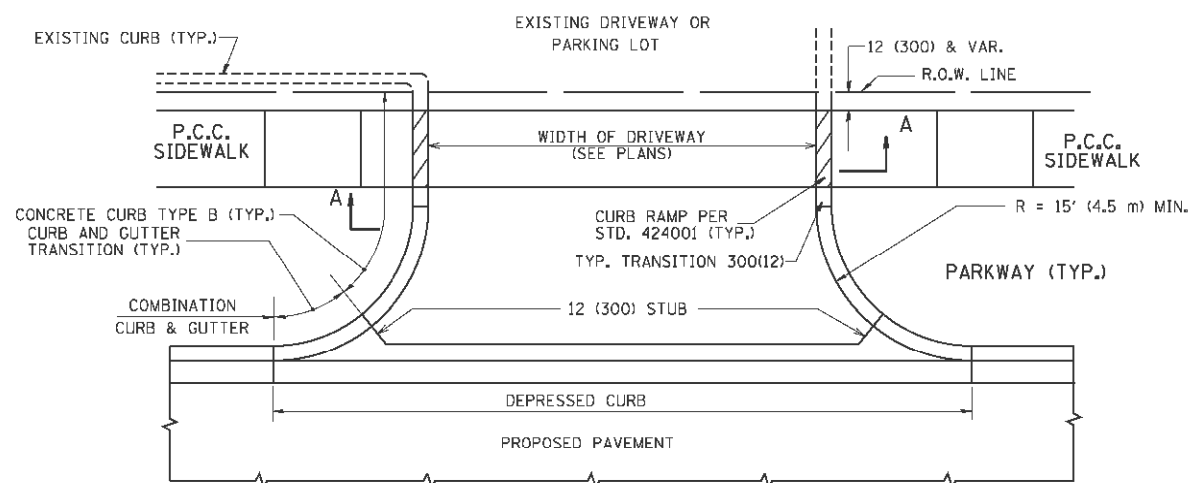
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| | DATE = 6/9/14 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

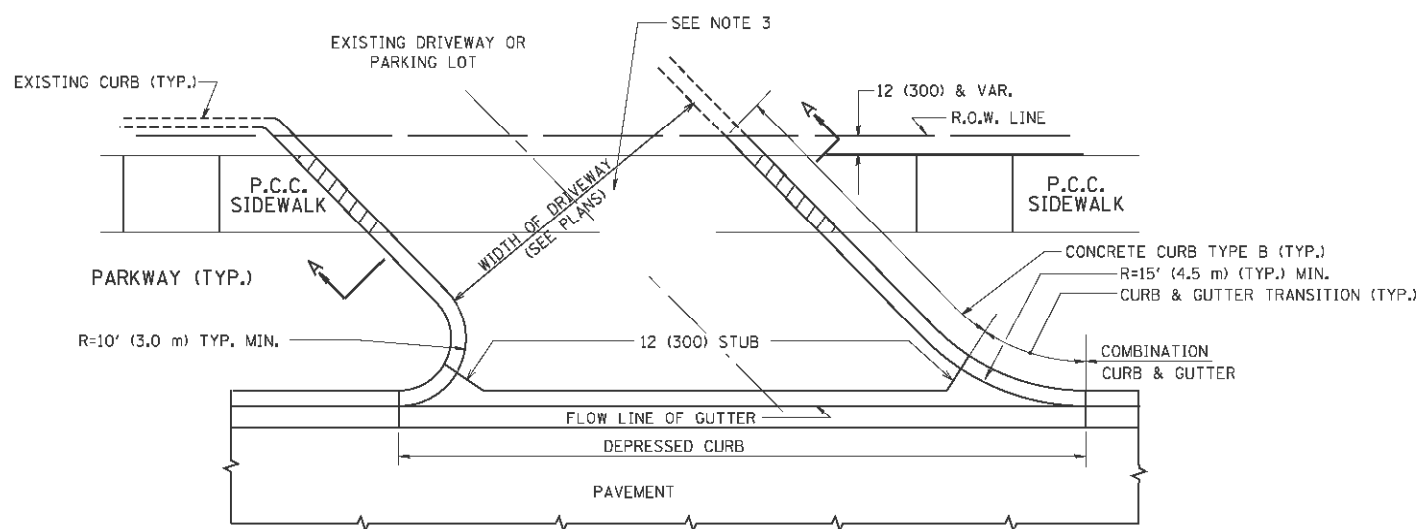
**DISTRICT 1 - DETECTOR LOOP REPLACEMENT
ILLINOIS ROUTE 176 @ GILMER RD.**

SCALE: N.T.S. SHEET NO. 8 OF 8 SHEETS STA. TO STA.

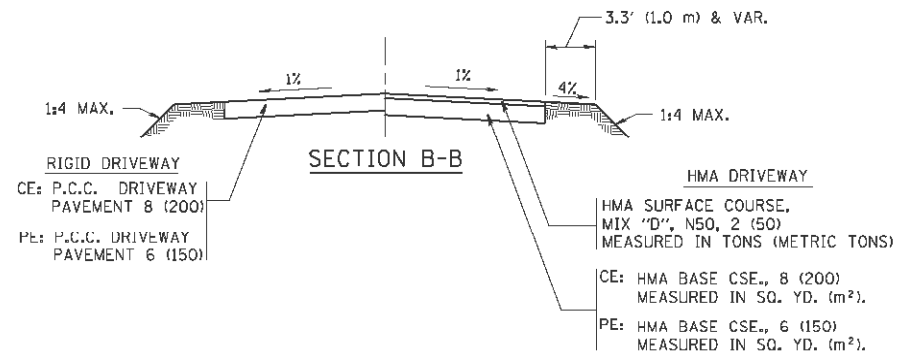
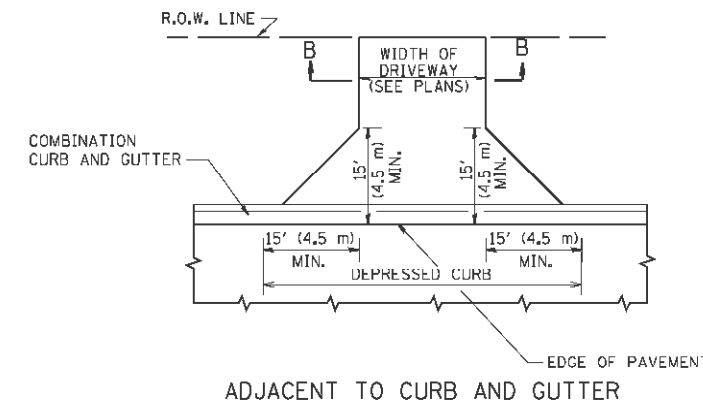
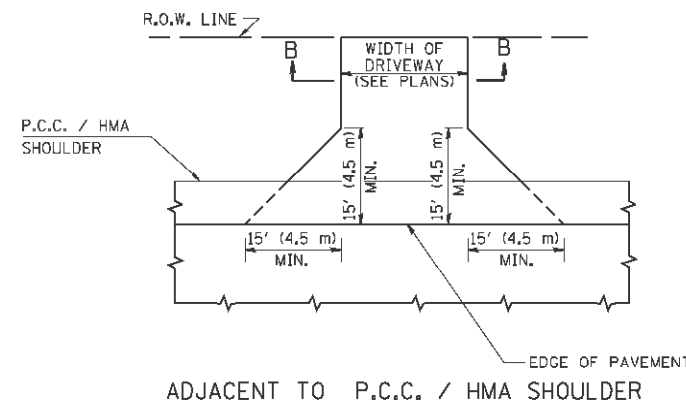
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| F.A. RTE. 335 | SECTION 145X-RS-2 | COUNTY LAKE | TOTAL SHEETS 44 | SHEET NO. 32 |
| FED. ROAD DIST. NO. ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 60N62 | |



WITH CONCRETE CURB, TYPE B



WITH CONCRETE CURB, TYPE B



GENERAL NOTES:

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

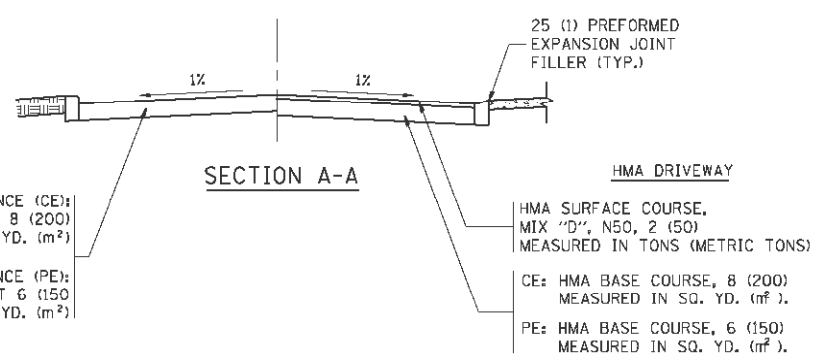
COMMERCIAL DRIVEWAYS SHALL BE CONSTRUCTED WITH CONCRETE CURB, TYPE B RETURNS EXCEPT WHEN THE SIDEWALK EDGE IS 4 FEET (1.2 METERS) OR LESS FROM THE BACK OF CURB, CONSTRUCT A FLARE DRIVEWAY WITHOUT CURB.

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

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

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

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



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PROJECT CONTACT: #PROJECT-CONTACT
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DESIGNED - R. SHAH
DRAWN -
CHECKED -
DATE - 11-04-95

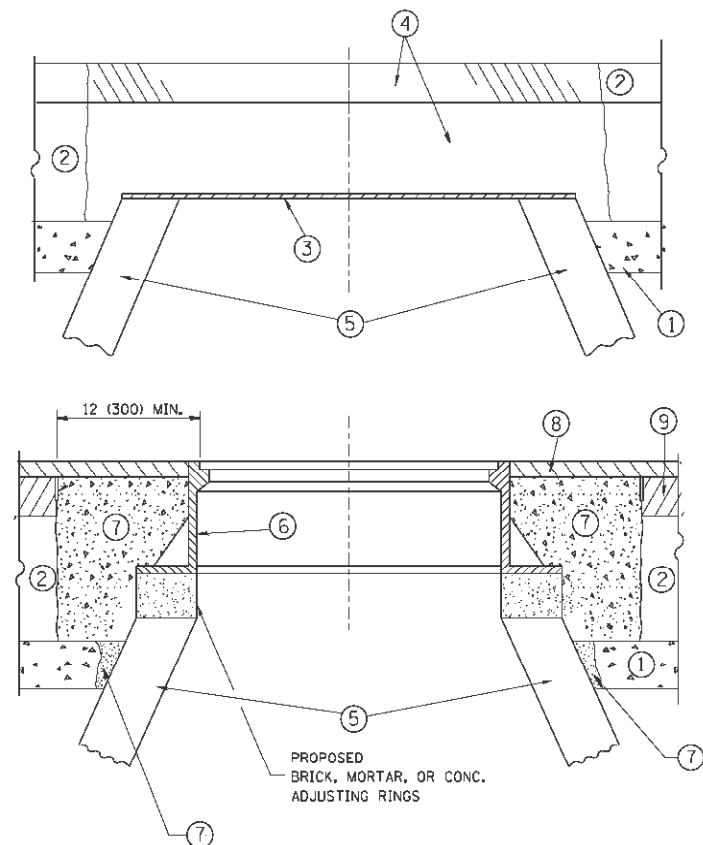
REVISOR
REVISED - P. LaFLUER 04-15-03
REVISED - R. BORO 01-01-07
REVISED - R. BORO 06-11-08
REVISED - R. BORO 09-06-11

PLOT SCALE = 50.0000' / in.
PLOT DATE = 9/6/2011

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRIVEWAY DETAILS - DISTANCE BETWEEN R.O.W.
AND FACE OF CURB & EDGE OF SHOULDER >= 15' (4.5 m)
SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145X-RS-2 | LAKE | 44 | 33 |
| BD0156-07 (BD-01) | | | CONTRACT NO. | 60N62 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

* UNLESS OTHERWISE SPECIFIED IN THE PLANS,

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE ENGINEER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- ⑨ PROPOSED HMA BINDER COURSE

LOCATION OF STRUCTURES:

THE CONTRACTOR WILL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR WILL DELIVER THE RECORD TO THE ENGINEER.

BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

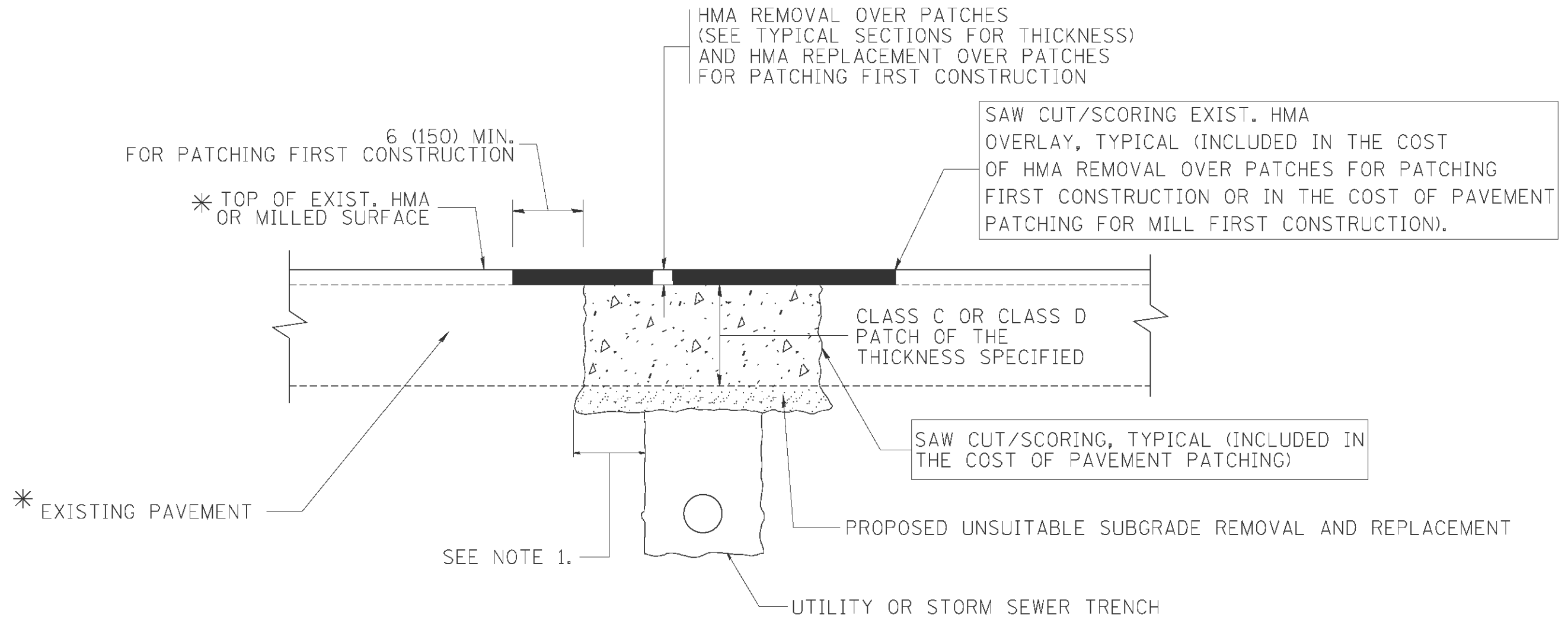
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| | | | | CHECKED - | | REVISED - | R. BORO 03-09-11 |
| | | | | DATE | 10-25-94 | REVISED - | R. BORO 12-06-11 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|--|-------------------------|------|---------|
| DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING | | | |
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

| | | | | |
|---|-----------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145X-RS-2 | LAKE | 44 | 34 |
| BD600-03 (BD-8) | | | CONTRACT NO. | 60N62 |
| 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 (PATCHING FIRST)

1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

COMPANY NAME: #COMPANY-NAME
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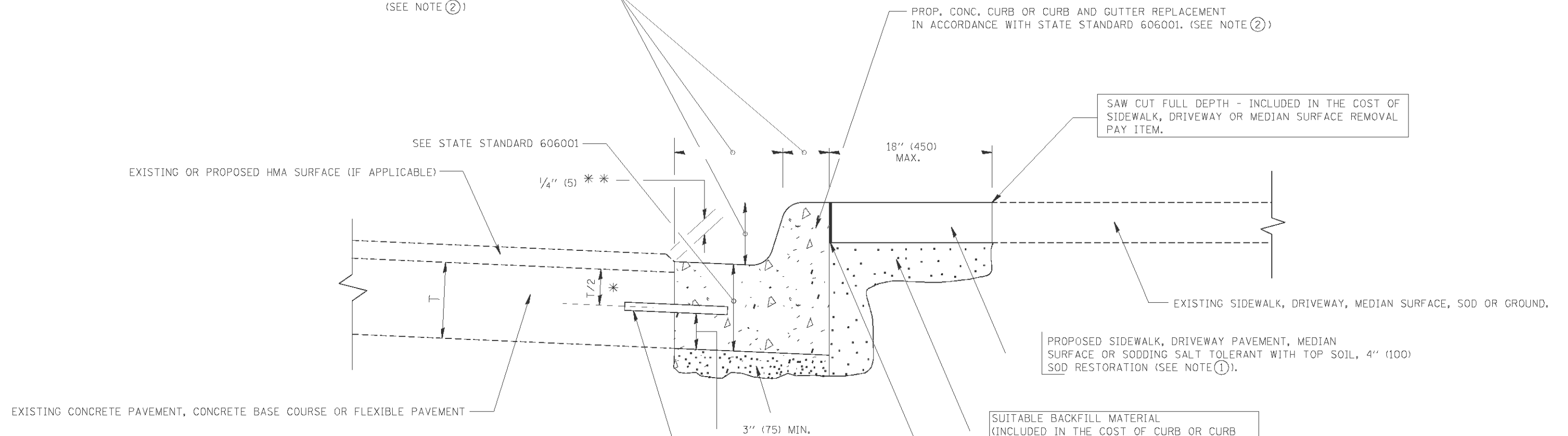
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| | DRAWN - | REVISED - R. BORO 01-01-07 |
| PLOT SCALE = 50.0000' / IN. | CHECKED - | REVISED - R. BORO 09-04-07 |
| PLOT DATE = 10/27/2008 | DATE - 10-25-94 | REVISED - K. ENG 10-27-08 |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | |
|--|--------------------------------------|
| PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT | |
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. TO STA. |

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------|--------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 35 |
| BD400-04 (BD-22) | | | CONTRACT NO. | 60N62 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.

SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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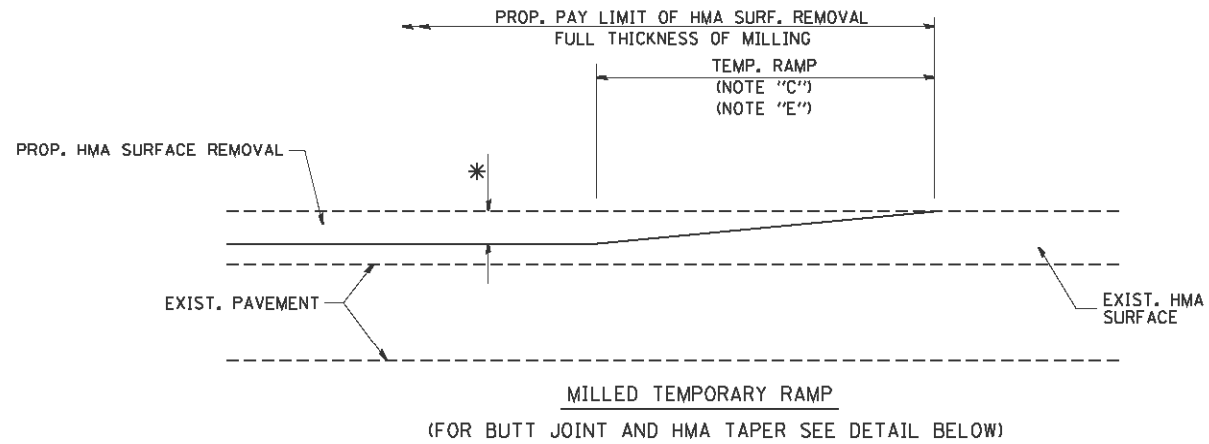
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|----------|-----------|---------|-------------------|
| DESIGNED | A. HOUSEH | REVISED | R. SHAH 10-03-96 |
| DRAWN | | REVISED | A. ABBAS 03-21-97 |
| CHECKED | | REVISED | M. GOMEZ 01-22-01 |
| DATE | 03-11-94 | REVISED | R. BORO 12-15-09 |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

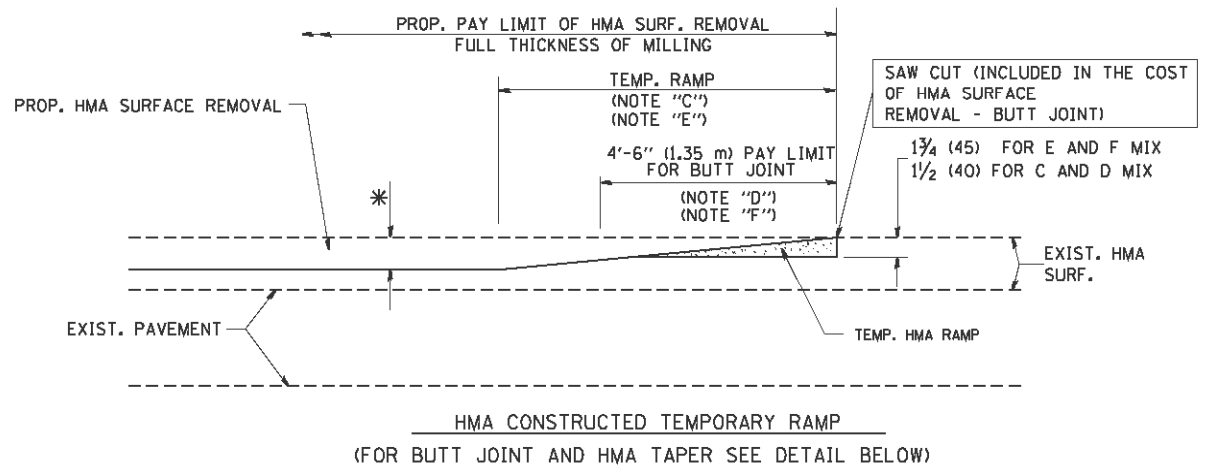
CURB OR CURB AND GUTTER
 REMOVAL AND REPLACEMENT

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

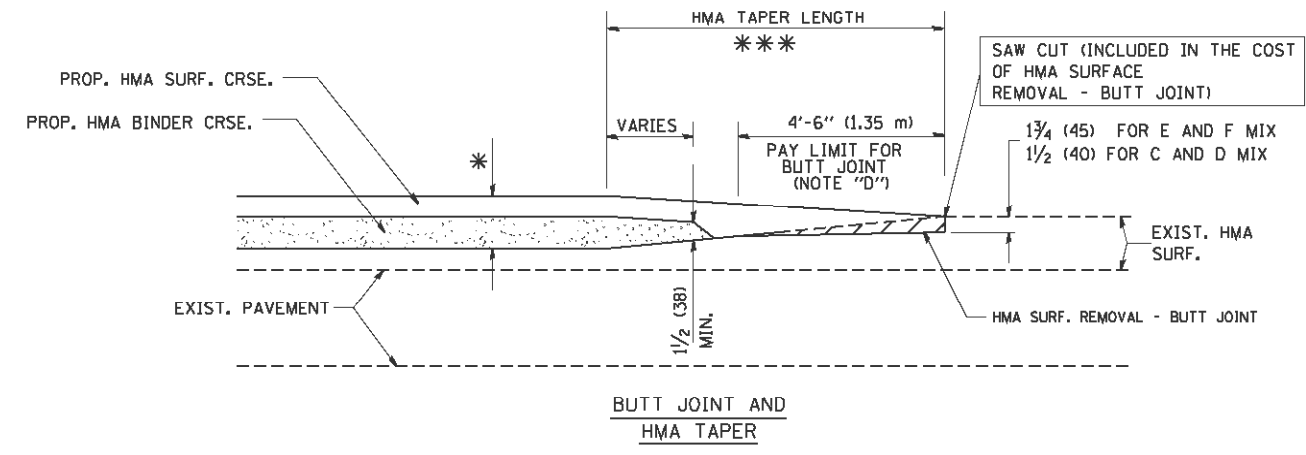
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145X-RS-2 | LAKE | 44 | 36 |
| BD600-06 (BD-24) | | | CONTRACT NO. | 60N62 |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



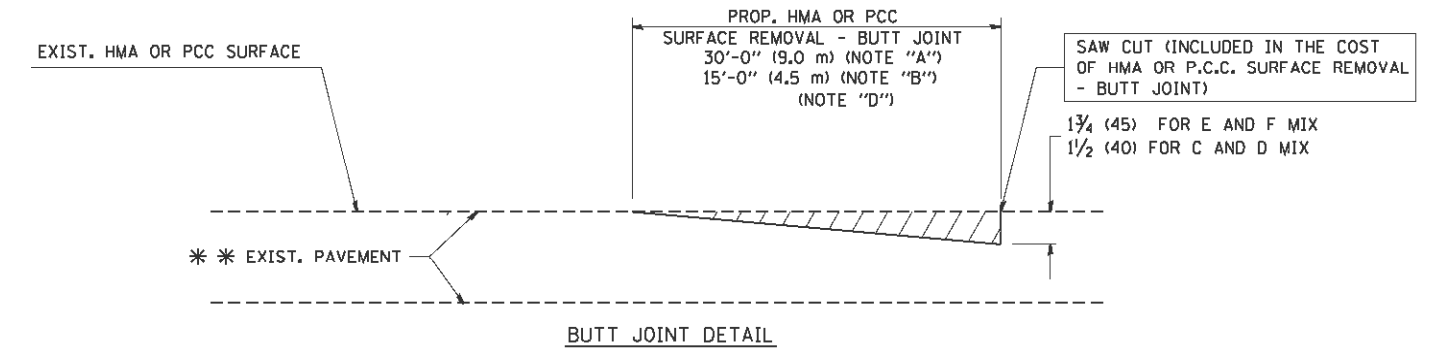
OPTION 1



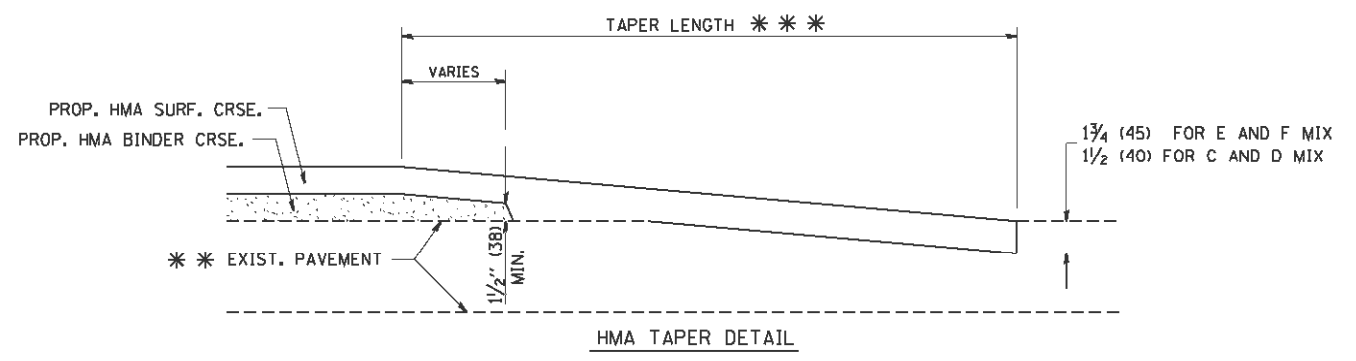
OPTION 2
TYPICAL TEMPORARY RAMP



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")

BASIS OF PAYMENT:

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

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

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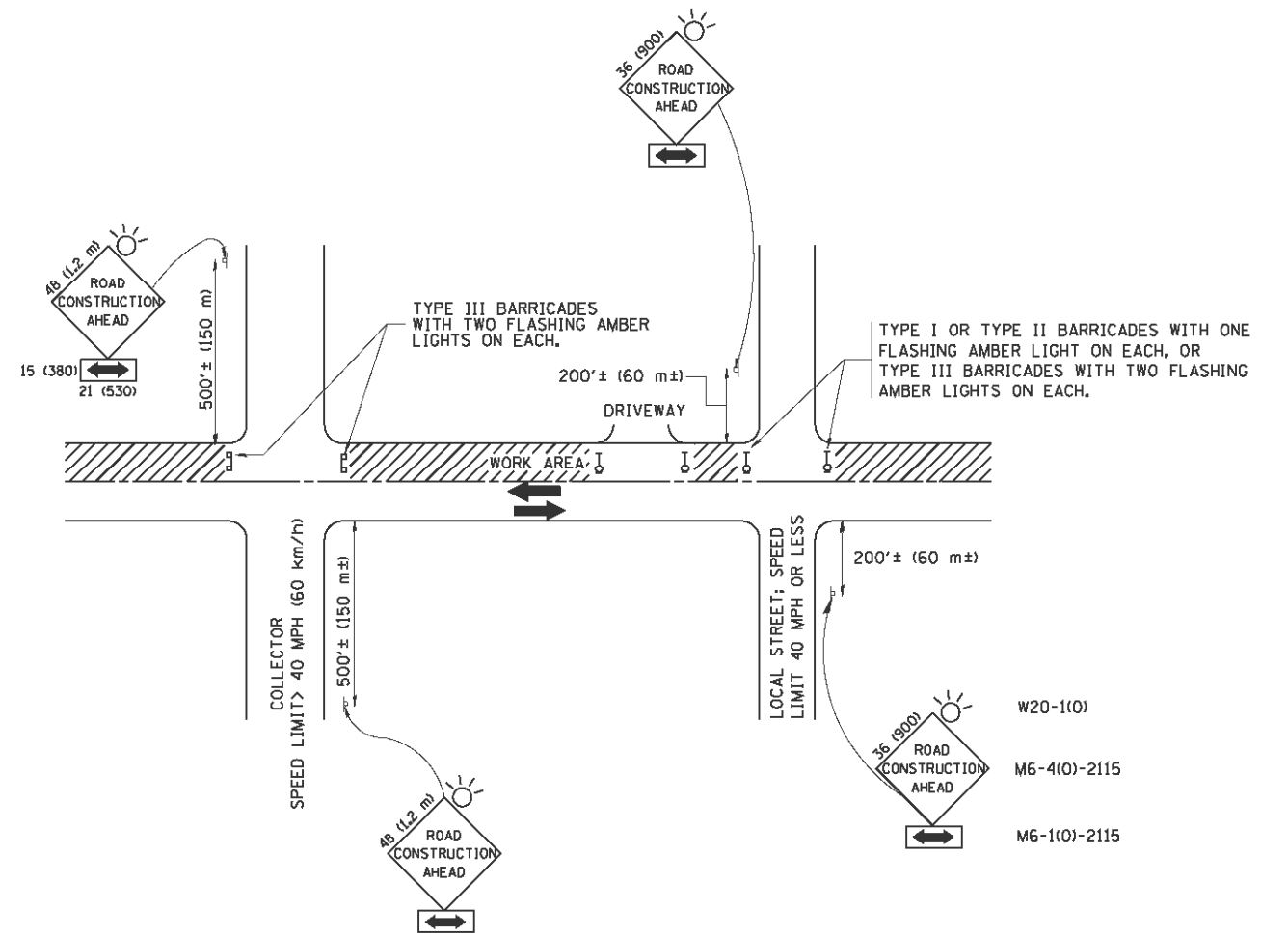


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| USER NAME = geglennobt | DESIGNED - M. DE YONG | REVISED - R. SHAH 10-25-94 |
| PLOT SCALE = 50.0000" / IN. | DRAWN - | REVISED - A. ABBAS 03-21-97 |
| PLOT DATE = 1/4/2008 | CHECKED - | REVISED - M. GOMEZ 04-06-01 |
| | DATE - 06-13-90 | REVISED - R. BORO 01-01-07 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | |
|---|--------------------------------------|
| BUTT JOINT AND HMA TAPER DETAILS | |
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. TO STA. |

| | | | | |
|---|-----------|--------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145X-RS-2 | LAKE | 44 | 37 |
| BD400-05 BD32 | | CONTRACT NO. | 60N62 | |
| FED. ROAD DIST. NO. 1 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. 70150L, 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.

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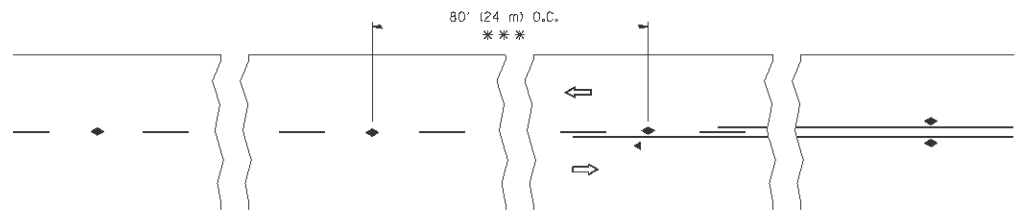


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|----------------------------|----------------|---------------------------------|
| USER NAME = geglianabt | DESIGNED - LHA | REVISED - J. OBERLE 10-18-95 |
| | DRAWN - | REVISED - A. HOUSEH 03-06-96 |
| PLOT SCALE = 500.000' / 1" | CHECKED - | REVISED - A. HOUSEH 10-15-96 |
| PLOT DATE = 1/4/2008 | DATE - 06-89 | REVISED - T. RAMMACHER 01-06-00 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

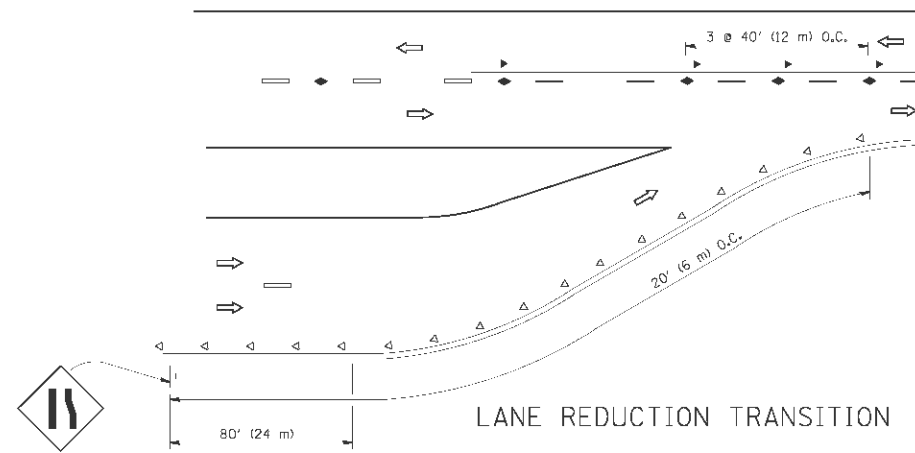
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| TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS | | | |
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. |

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|---|-----------|--------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145X-RS-2 | LAKE | 44 | 38 |
| TC-10 | | CONTRACT NO. | 60N62 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

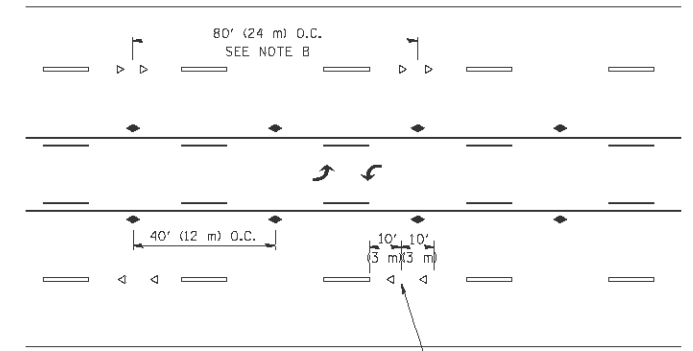


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

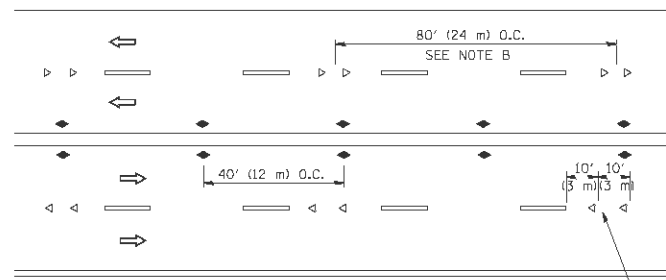
TWO-LANE/TWO-WAY



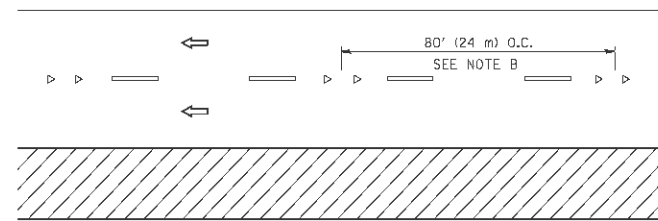
LANE REDUCTION TRANSITION



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

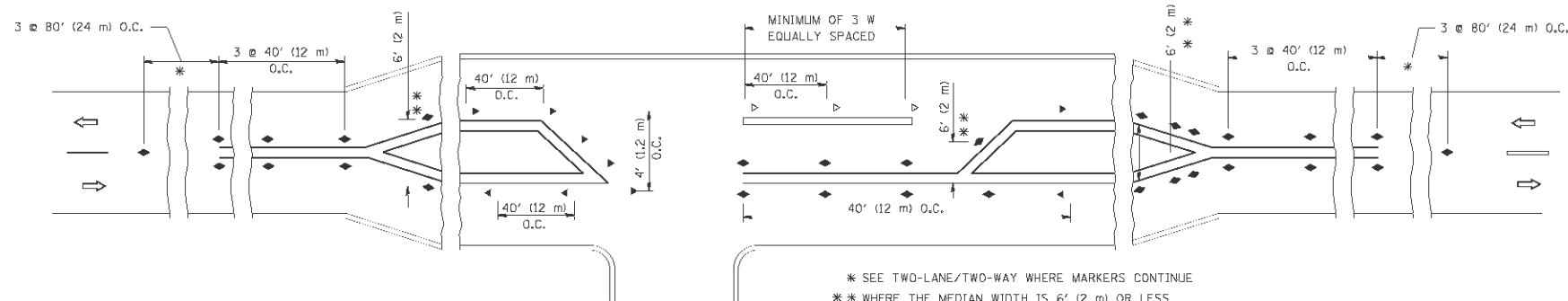
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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

* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

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

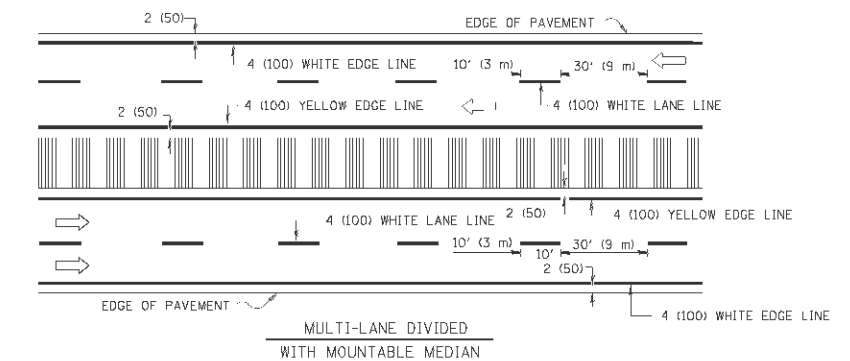
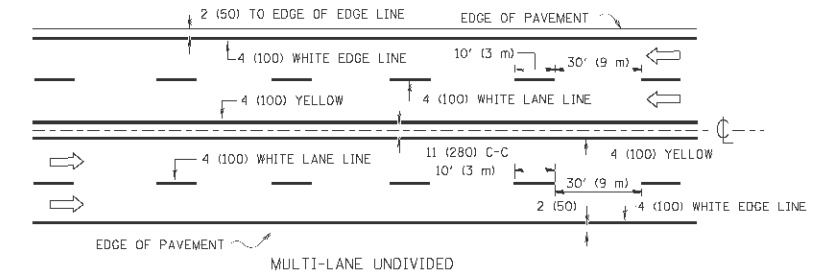
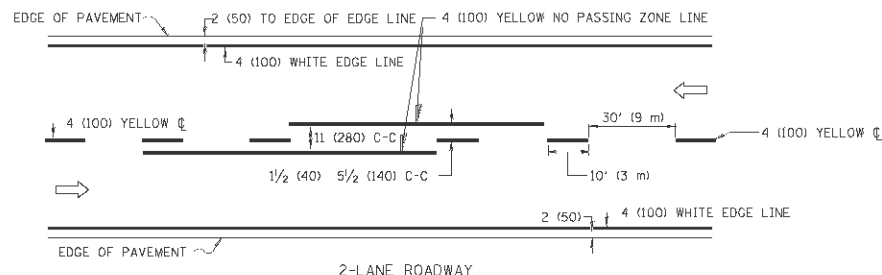
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| DRAWN | | REVISED | T. RAMMACHER 03-12-99 |
| CHECKED | PI 011 DATE = 09/09/99 | REVISED | T. RAMMACHER 01-06-00 |
| DATE | | REVISED | C. JUCIUS 09-09-09 |

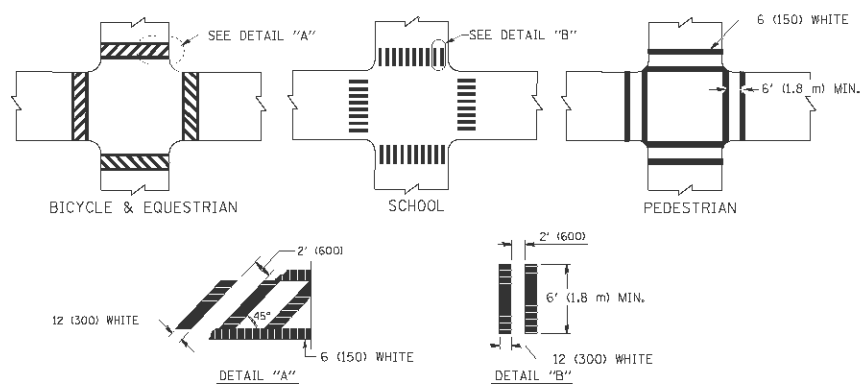
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

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|--|--|---|-----------|--------------|--------------|-----------|
| TYPICAL APPLICATIONS | | F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) | | 335 | 145X-RS-2 | LAKE | 44 | 39 |
| SCALE: NONE | | SHEET NO. 1 OF 1 SHEETS | | CONTRACT NO. | 60NG62 | |
| STA. TO STA. | | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

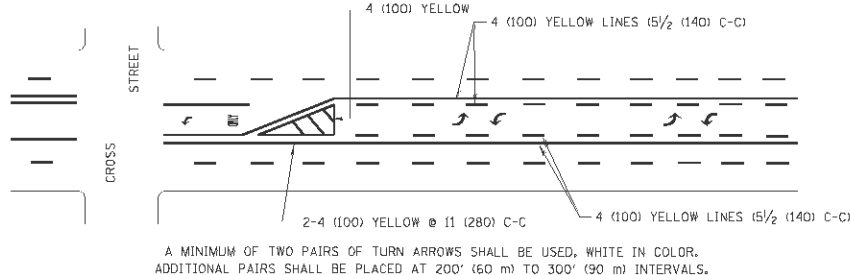
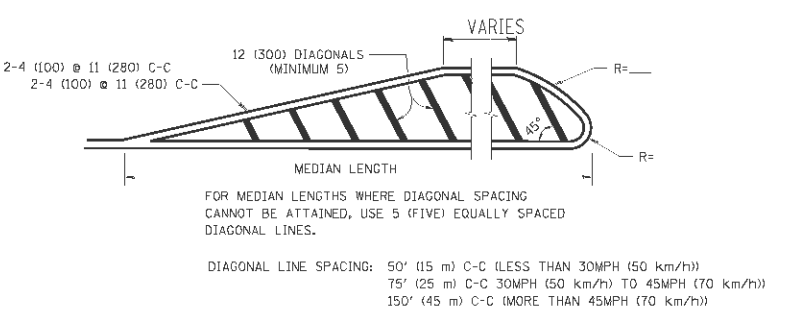
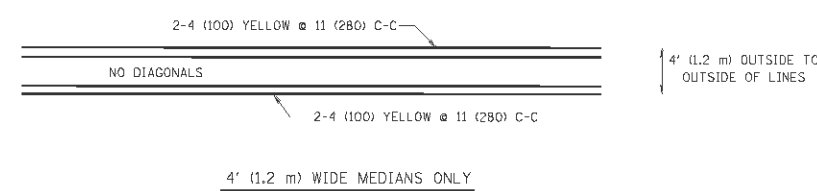


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

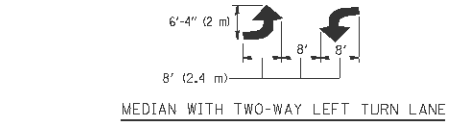
TYPICAL LANE AND EDGE LINE MARKING



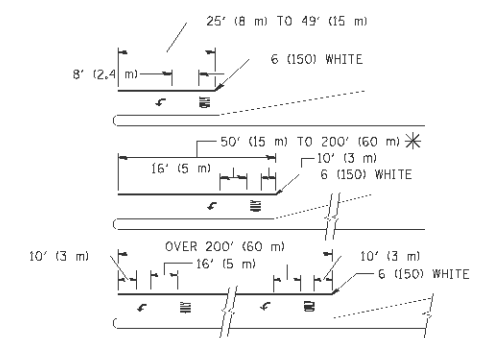
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING

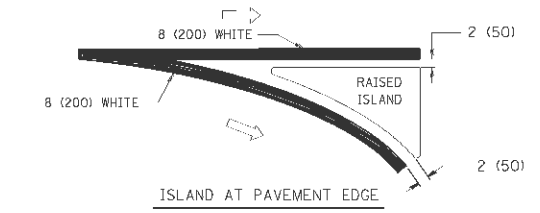
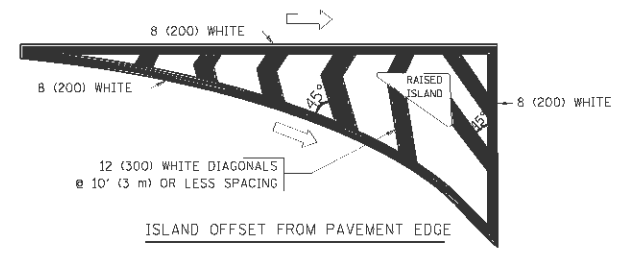


TYPICAL LEFT (OR RIGHT) TURN LANE



FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
 * 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 TURN LANE MARKING



TYPICAL ISLAND MARKING

| TYPE OF MARKING | WIDTH OF LINE | PATTERN | COLOR | SPACING / REMARKS |
|---|--|---------------------------------|---|--|
| CENTERLINE ON 2 LANE PAVEMENT | 4 (100) | SKIP-DASH | YELLOW | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT | 2 @ 4 (100) | SOLID | YELLOW | 11 (280) C-C |
| NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS | 4 (100) 2 @ 4 (100) | SOLID SOLID | YELLOW YELLOW | 5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN |
| LANE LINES | 4 (100) 5 (125) ON FREEWAYS | SKIP-DASH SKIP-DASH | WHITE WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE |
| DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS) | SAME AS LINE BEING EXTENDED | SKIP-DASH | SAME AS LINE BEING EXTENDED | 2' (600) LINE WITH 6' (1.8 m) SPACE |
| EDGE LINES | 4 (100) | SOLID | YELLOW-LEFT WHITE-RIGHT | OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB |
| TURN LANE MARKINGS | 6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m)) | SOLID | WHITE | SEE TYPICAL TURN LANE MARKING DETAIL |
| TWO WAY LEFT TURN MARKING | 2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW | SKIP-DASH AND SOLID IN PAIRS | YELLOW WHITE | 10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL |
| CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL) | 2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90° | SOLID SOLID SOLID | WHITE WHITE WHITE | NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 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.

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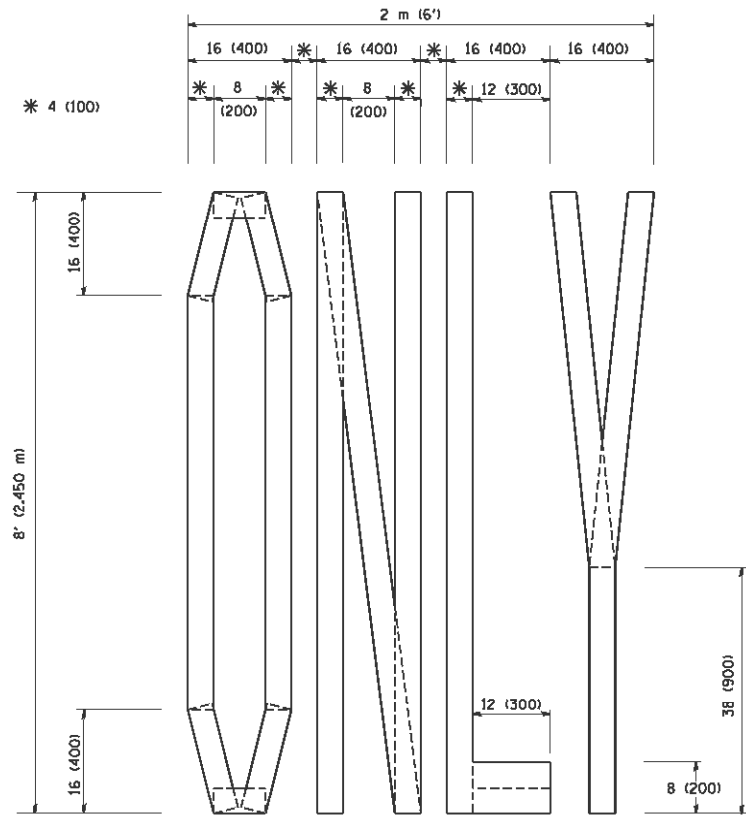
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REVISED -T. RAMMACHER 10-27-94
 REVISED -C. JUCIUS 09-09-09
 REVISED -
 REVISED -

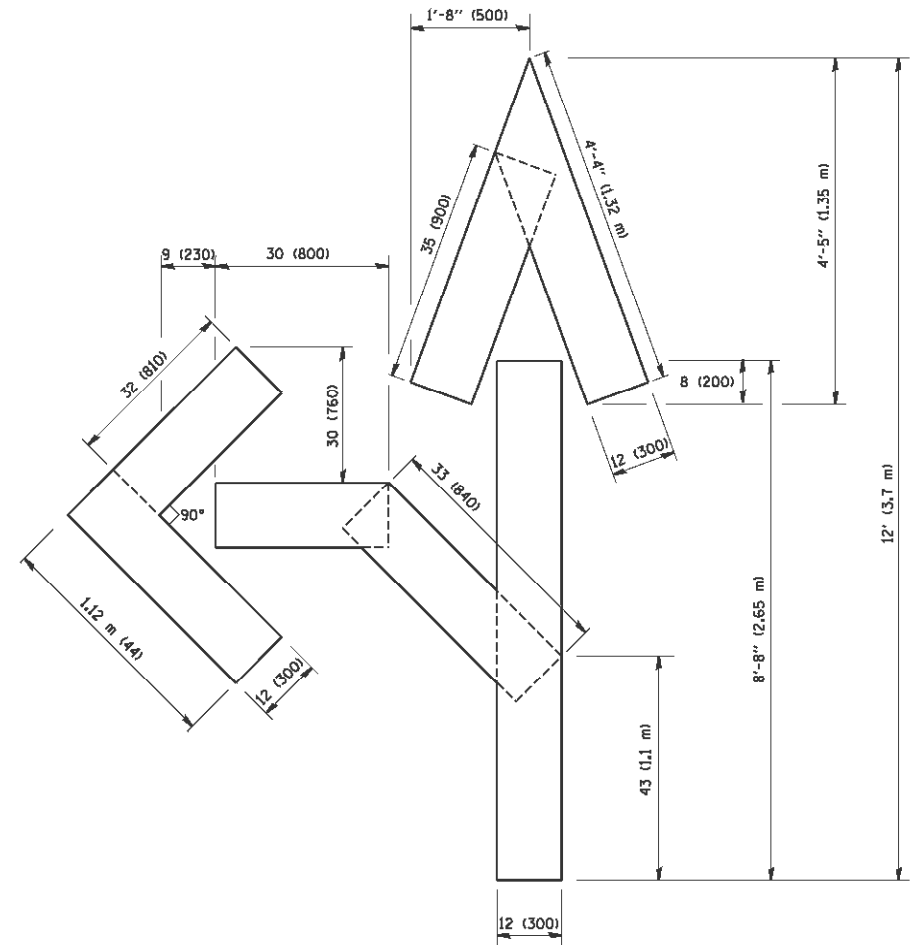
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
 TYPICAL PAVEMENT MARKINGS
 SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

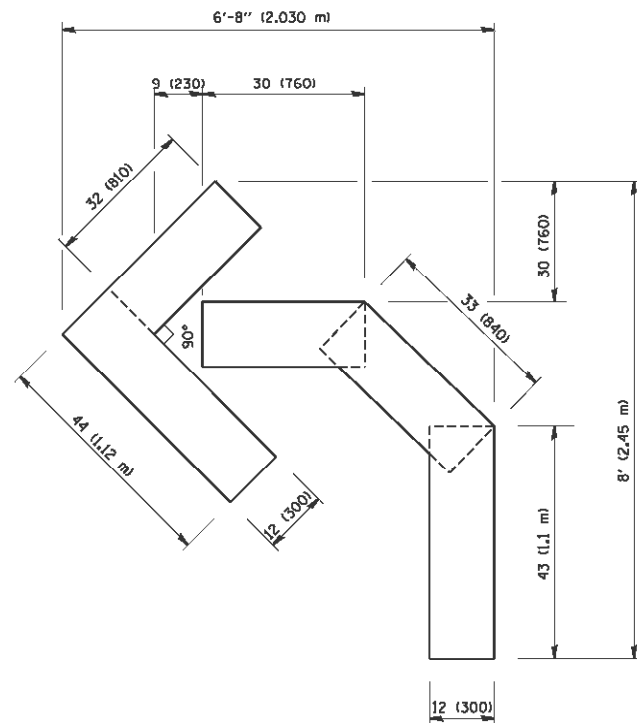
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------------|--------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 40 |
| TC-13 | | CONTRACT NO. | 60N62 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



QUANTITY
 4 (100) LINE = 45.5 ft. (13.9 m)
 15.2 sq. ft. (1.39 sq. m)

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

COMPANY NAME: #COMPANY_NAME
 PROJECT CONTACT: #PROJECT_CONTACT
 DATE PLOTTED: 6/9/2014 8:53:03 AM
 FILE NAME: 86100196.08-de1-11.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: standard-trans.tbl



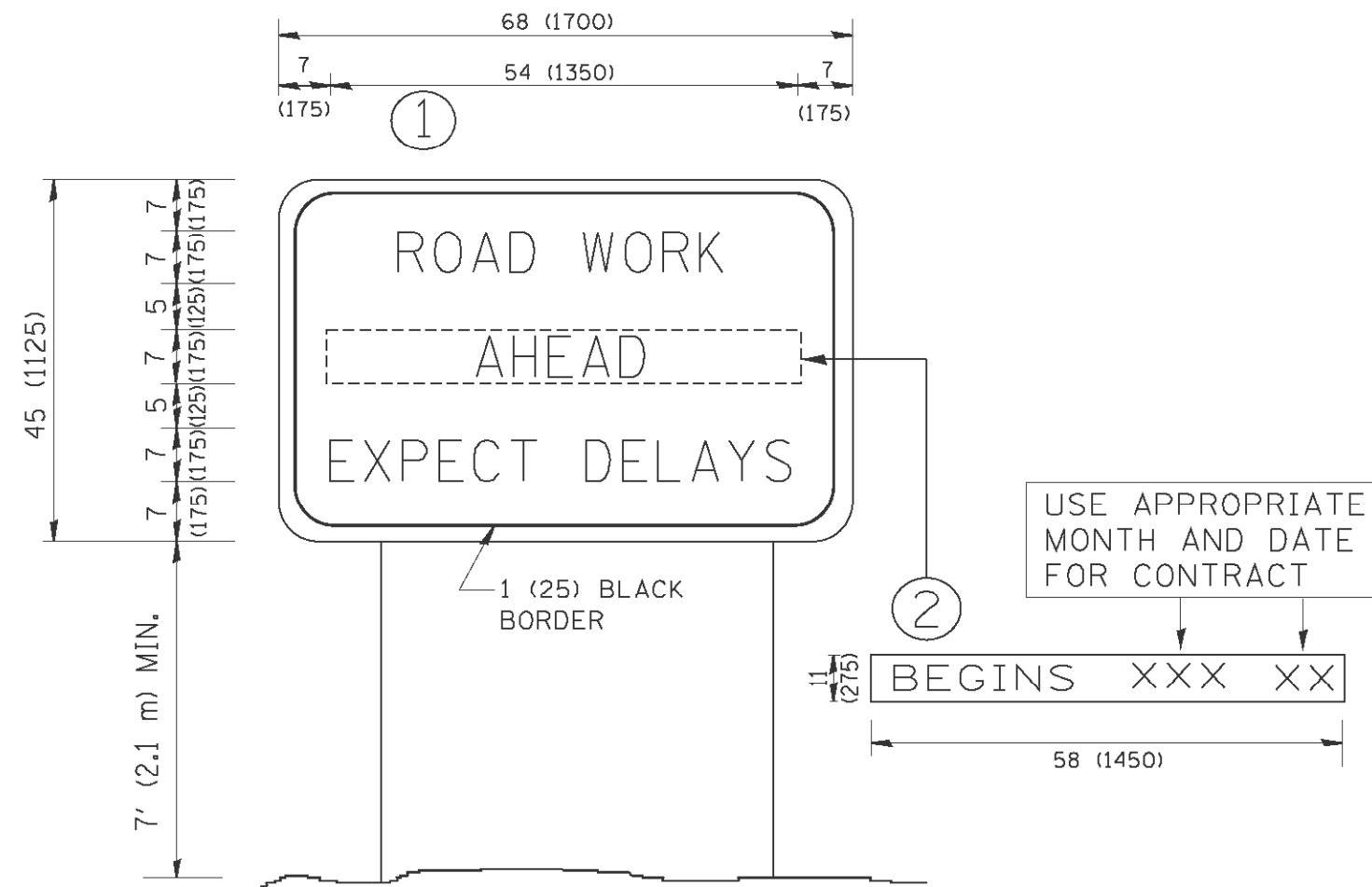
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| USER NAME = geglent | DESIGNED - | REVISED - T. RAMMACHER 06-05-96 |
| | DRAWN - | REVISED - T. RAMMACHER 11-04-97 |
| PLOT SCALE = 50.0000" / IN. | CHECKED - | REVISED - T. RAMMACHER 03-02-98 |
| PLOT DATE = 1/4/2008 | DATE - 09-18-94 | REVISED - E. GOMEZ 08-28-00 |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING LETTERS AND SYMBOLS
 FOR TRAFFIC STAGING

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

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------------|--------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 41 |
| TC-16 | | CONTRACT NO. | 60N62 | |
| FED. ROAD DIST. NO. 1 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.)
7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

COMPANY NAME: #COMPANY-NAME/ HRGreen.com
 PROJECT CONTACT: #PROJECT-CONTACT/ Illinois Professional Design Firm
 DATE PLOTTED: 6/9/2014 8:53:06 AM # 184-001322
 FILE NAME: 86100196.08-de+12.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: standard-trans.tbl

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|--|----------------------------|------------|---------------------------------|
| | USER NAME = geglent | DESIGNED - | REVISED - R. MIRS 09-15-97 |
| | | DRAWN - | REVISED - R. MIRS 12-11-97 |
| | PLOT SCALE = 50.000' / IN. | CHECKED - | REVISED - T. RAMMACHER 02-02-99 |
| | PLOT DATE = 1/4/2008 | DATE - | REVISED - C. JUCIUS 01-31-07 |

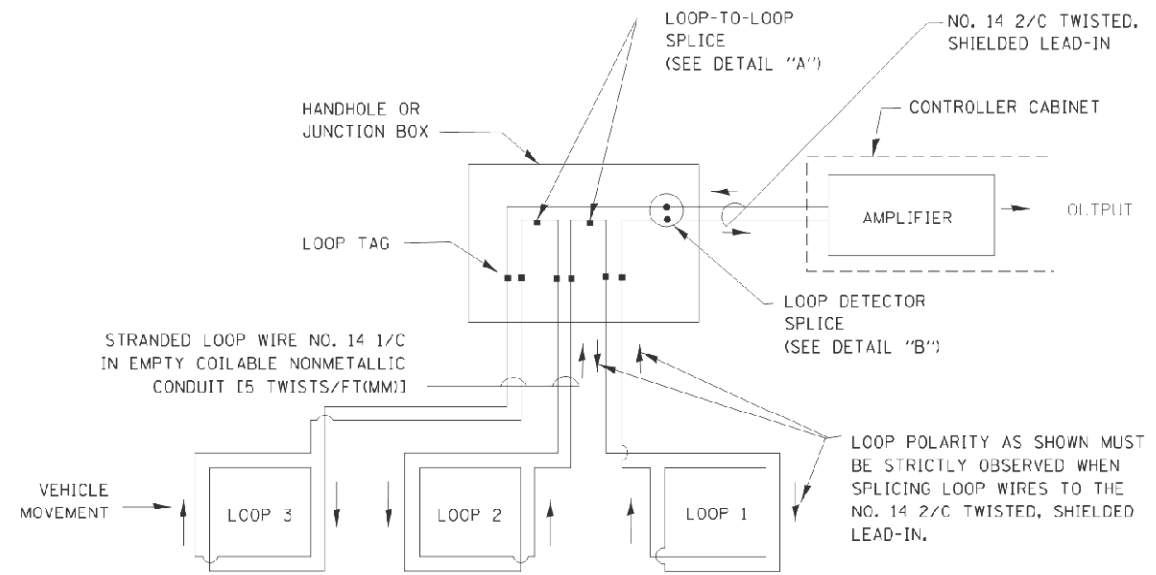
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | |
|---|--------------------------------------|
| ARTERIAL ROAD INFORMATION SIGN | |
| SCALE: NONE | SHEET NO. 1 OF 1 SHEETS STA. TO STA. |

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---|-----------|--------|---------------------------|-----------|
| 335 | 145X-RS-2 | LAKE | 44 | 42 |
| TC-22 | | | CONTRACT NO. 60N62 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

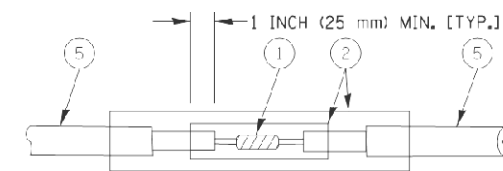
LOOP DETECTOR NOTES

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

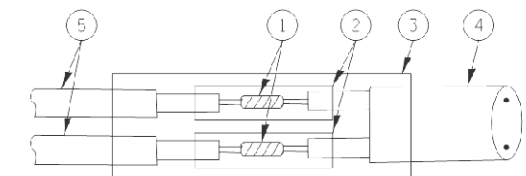


DETECTOR LOOP WIRING SCHEMATIC

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

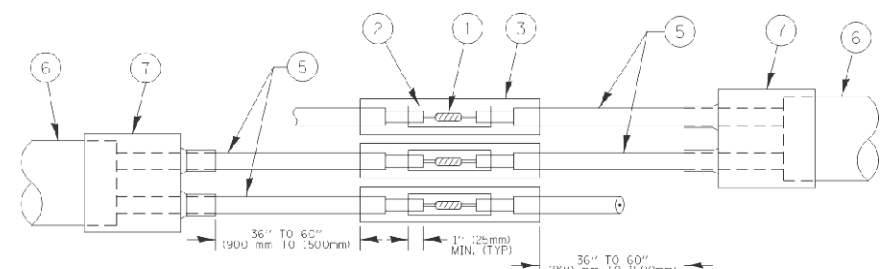


DETAIL "A"
LOOP-TO-LOOP SPLICE

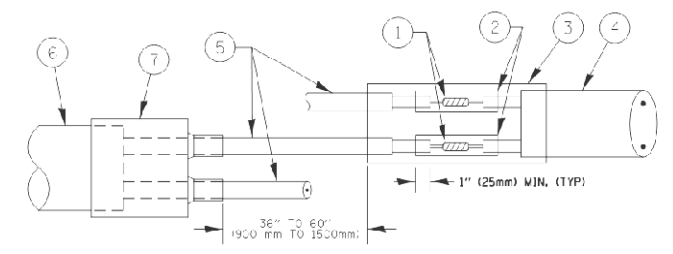


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE

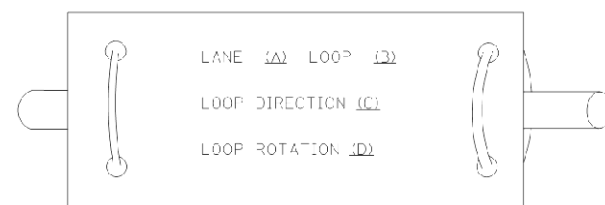


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

LOOP DETECTOR SPLICE

- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH, THE WESTERN UNION SPLICES SHALL BE STAGGERED.
- WCSM 30/100 HEAT SHRINK TUBE, MINIMUM LENGTH 3" (75 mm), UNDERWATER GRADE.
- WCS 200/750 HEAT SHRINK TUBE, MINIMUM LENGTH 6" (150 mm), UNDERWATER GRADE.
- NO. 14 2/C TWISTED, SHIELDED CABLE.
- LOOP CONDUCTOR WITH FLEXIBLE PLASTIC TUBE.
- PRE-FORMED LOOP
- XL POLYOLEFIN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

LOOP LEAD-IN CABLE TAG



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

COMPANY NAME: #COMPANY-NAME/HRGreen.com
 PROJECT CONTACT: #PROJECT-CONTACT/HRGreen.com
 DATE PLOTTED: 6/9/2014 8:53:00 AM
 FILE NAME: 86100196.08-de-13.dgn
 PLOT DRIVER: pdfcut
 PEN TABLE: standard-trans.tbl



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|-------------------------------|------------------|----------------------|
| USER NAME: #footenj | DESIGNED: - DAJ | REVISED: - DAJ 11-14 |
| Drawn | DRAWN: - BCK | REVISED: - |
| PLOT SCALE: = 50.0000 / 1 in. | CHECKED: - DAJ | REVISED: - |
| PLOT DATE: 11/3/2014 | DATE: - 10-28-09 | REVISED: - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

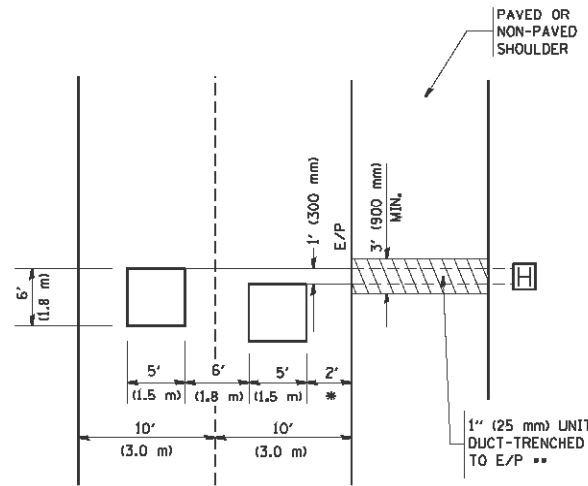
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET NO. 2 OF 1 SHEETS STA. TO STA.

| | | | | |
|---|--------------------|--------------|---------------------|---------------|
| F.A. RITE: 335 | SECTION: 145X-RS-2 | COUNTY: LAKE | TOTAL SHEETS: 44 | SHEET NO.: 43 |
| TS-05 | | | CONTRACT NO.: 60N62 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |

LOOPS NEXT TO SHOULDERS

PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER.

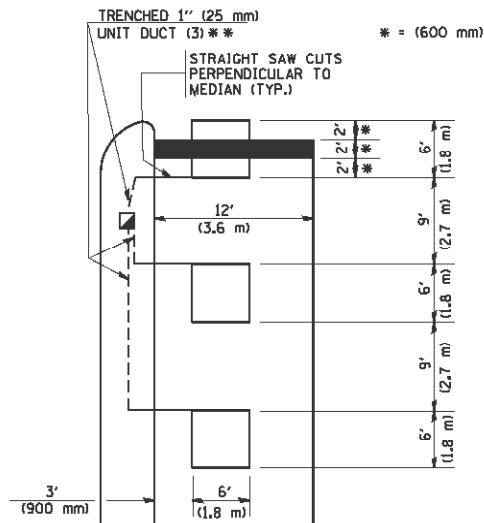


* = (600 mm)

** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

**LEFT TURN LANES WITH MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**

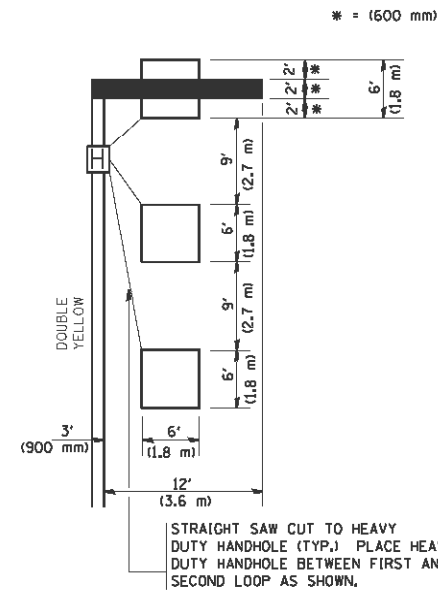
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

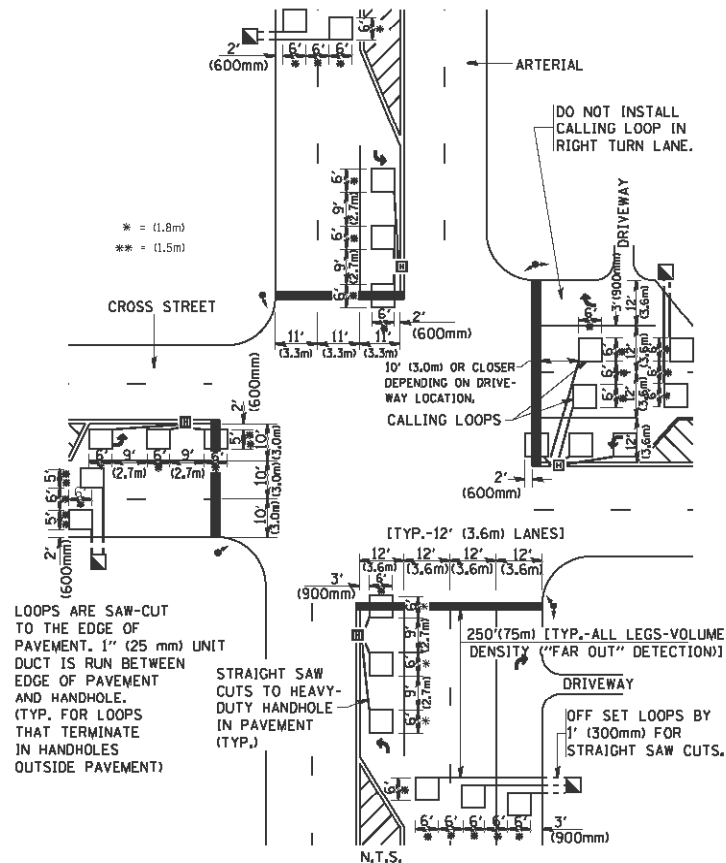
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)**



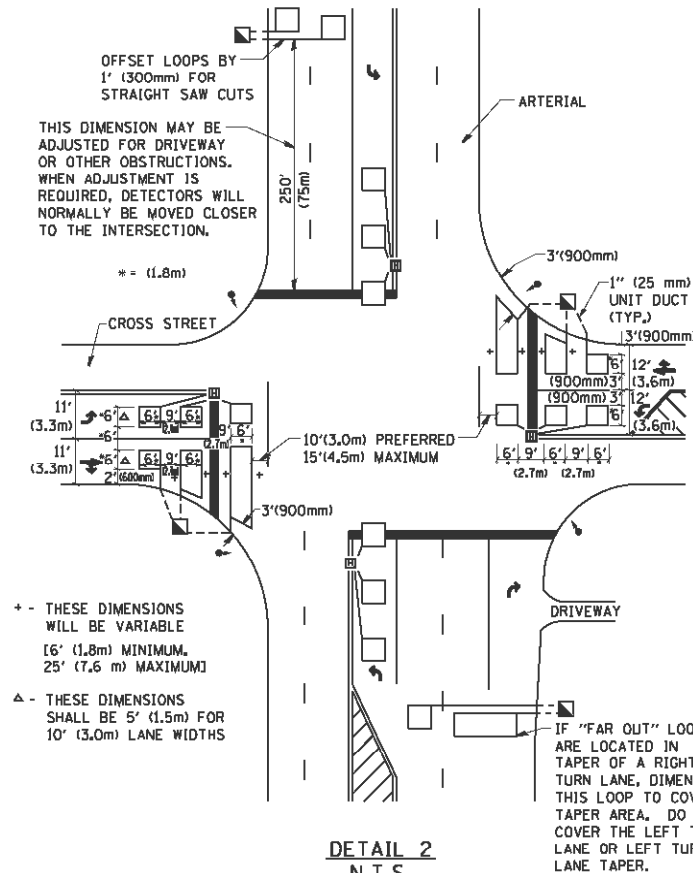
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-VOLUME DENSITY ("FAR OUT" DETECTION)**



**DETAIL 1
N.T.S.**

**ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("UPTIGHT" PRESENCE DETECTION)**



**DETAIL 2
N.T.S.**

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

COMPANY NAME: #COMPANY-NAME
PROJECT CONTACT: #PROJECT-CONTACT
DATE PLOTTED: 6/9/2014 8:53:14 AM
FILE NAME: 86100196.08-det-14.dgn
PLOT DRIVER: pdfcut
PEN TABLE: standard-trans.tbl



USER NAME = geglennobt
DESIGNED -
DRAWN -
PLOT SCALE = 50.0000' / IN.
PLOT DATE = 1/4/2008

CHECKED - R.K.F.
DATE -

REVISED -
REVISED -
REVISED -
REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING**

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

| | | | | |
|---|-----------|--------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 335 | 145X-RS-2 | LAKE | 44 | 44 |
| TS-07 | | CONTRACT NO. | 60NG62 | |
| FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT | | | | |