

061

01-17-2020 LETTING ITEM 061

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|----------------|----------|--------------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 1 |
| | | ILLINOIS | CONTRACT NO. 76K43 | |

D-98-065-17

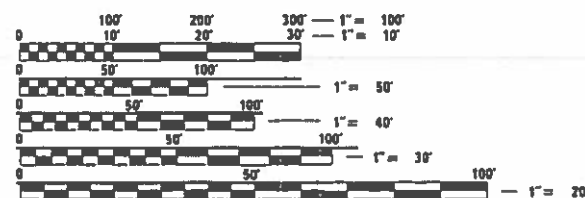


FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

FAP ROUTE 586A (IL 162)
SECTION (51,59,31)RS-4
PROJECT NHPP-5KMJ(278)
RESURFACING - DESIGNED OVERLAY
MADISON COUNTY

C-98-210-18

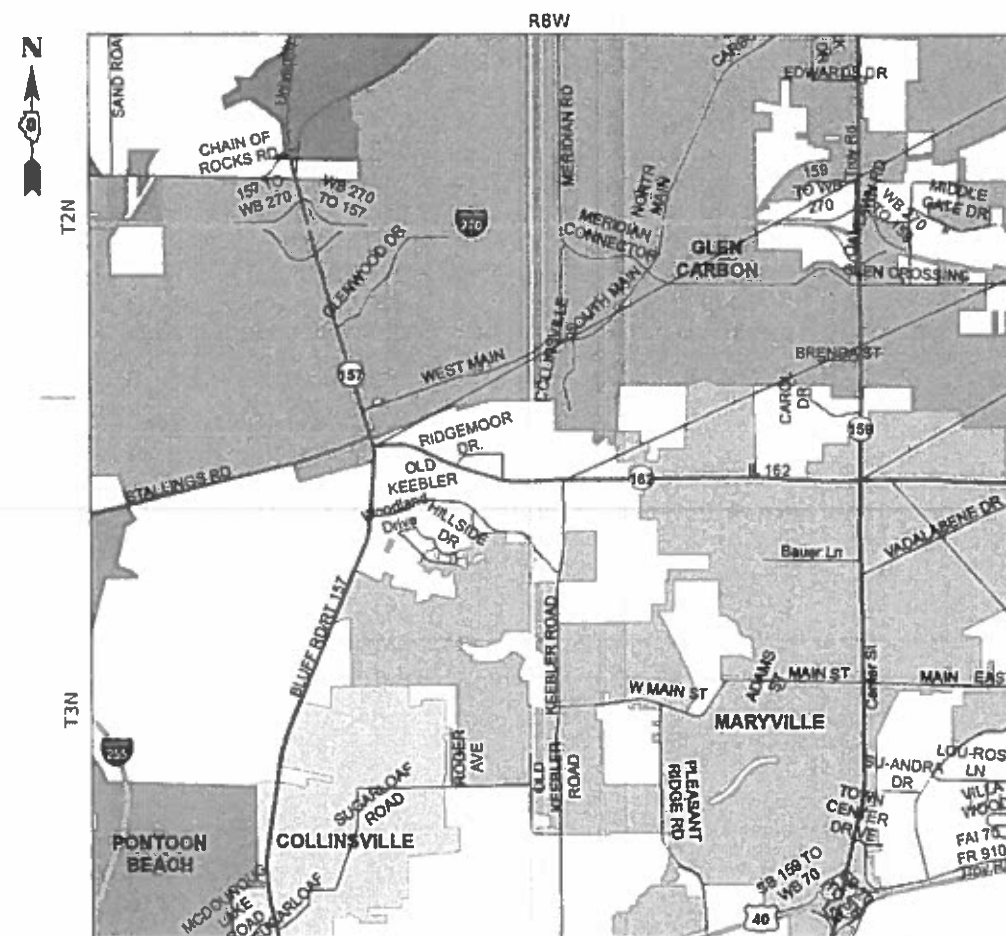


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

PROJECT ENGINEER: HERVE GELIN (618) 346-3179
PROJECT MANAGER: BILLIE OWEN (618) 346-3209

CONTRACT NO. 76K43



BEGIN PROJECT
STA. 239+50
LAT: 38.74078
LONG: -90.00138

OMISSION AT KEEBLER ROAD INTERSECTION
STA. 284+23 TO STA. 295+61

OMISSION AT IL 159 INTERSECTION
STA. 368+40 TO STA. 369+12

END PROJECT
STA. 374+60
LAT: 38.73310
LONG: -89.91625

MAP NOT TO SCALE

GROSS = 13510 FT. = 2.559 MILE
NET LENGTH = 12,297 FT. = 2.329 MILE

ADT:

2017 ADT: = 7800 (ACTUAL)
2019 ADT: = 7900 (ESTIMATED)
2039 ADT: = 9100 (ESTIMATED)
SU = 4.8% MU = 1.8%

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED Oct. 4 2019
Kath Roberts
REGIONAL ENGINEER

Dee Le 2019
Dee Le 2019
ENGINEER OF DESIGN AND ENVIRONMENT

Paul P. Chaf
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

| | |
|-------|--|
| 1 | COVER SHEET |
| 2 | INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS |
| 3-7 | SUMMARY OF QUANTITIES |
| 8 | TYPICAL SECTIONS |
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| 11-22 | PLAN SHEETS |
| 23 | DETAILS |
| 24 | ADA RAMP IMPROVEMENT PLAN SHEET |
| 25-28 | GUARDRAIL DETAILS |
| 29-31 | DETECTOR LOOP DETAILS |

GENERAL NOTES

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

- * AMEREN ILLINOIS
- * AT&T ILLINOIS
- * CHARTER COMMUNICATIONS, INC.
- * VILLAGE OF GLEN CARBON
- * ILLINOIS AMERICAN WATER COMPANY
- * VILLAGE OF MARYVILLE
- * SOUTHWESTERN ELECTRIC COOPERATIVE, INC.

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

- THE THICKNESS OF HOT-MIX ASPHALT SURFACE MIXTURES SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS MAY OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE BITUMINOUS MIXTURE IS PLACED.
- NO OVERNIGHT LANE CLOSURES WILL BE PERMITTED.
- THE PROPOSED PAVEMENT MARKING SHALL MATCH THE LOCATIONS OF THE EXISTING PAVEMENT MARKING, AS DIRECTED BY THE ENGINEER.
- THE DEPARTMENT STRONGLY ENCOURAGES THE PRIME CONTRACTOR AND THEIR APPROVED SUB-CONTRACTORS TO HIRE MINORITY, WOMEN AND DISADVANTAGED INDIVIDUALS FROM ITS FEDERALLY FUNDED HIGHWAY CONSTRUCTION CAREERS TRAINING PROGRAM (HCCTP) TO HELP MEET WORKFORCE AND TRAINEE GOALS. THIS PROGRAM IS TRAINING MINORITIES, WOMEN AND DISADVANTAGED INDIVIDUALS IN HIGHWAY CONSTRUCTION-RELATED SKILLS, E.G., MATH FOR THE TRADES, JOB READINESS, TECHNICAL SKILLS COURSEWORK (CARPENTRY, CONCRETE FLATWORK, BLUEPRINT READING, SITE PLANS, SITE WORK, TOOLS USE, ETC.) AND OSHA 10 HOUR CERTIFICATION, TO PREPARE THEM FOR A CAREER IN THE HIGHWAY CONSTRUCTION TRADES. GRADUATES ARE WELL-TRAINED AND READY TO BECOME PRODUCTIVE ENTRY-LEVEL CONSTRUCTION WORKERS. CONTACT THE DISTRICT 8 EEO OFFICE AT 618-346-3360 AND/OR THE HCCTP COORDINATOR AT 618-874-6528 TO LEARN MORE ABOUT THE PROGRAM AND FOR ASSISTANCE IN MEETING WORKFORCE AND TRAINEE GOALS.
- "SHORT TERM PAVEMENT MARKING REMOVAL" SHALL ONLY BE MEASURED AND PAID FOR ON THE FINAL SURFACE LIFT.
- ALL OF THE AREA REMOVED AS EXCAVATING AND GRADING EXISTING SHOULDERS SHALL BE REPLACED WITH ONE LIFT OF HOT-MIX ASPHALT SHOULDER WITHIN THE SAME DAY. AREAS OF REMOVAL SHALL NOT BE LEFT EXPOSED OVERNIGHT.
- CONSTRUCTION LAYOUT IS TO BE USED FOR THE LAYOUT OF THE ADA RAMPS AT THE INTERSECTION OF IL 162 AND IL 159.

HIGHWAY STANDARDS

| | |
|-----------|--|
| 000001-07 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 001006 | DECIMALS OF AN INCH AND FOOT |
| 406201-01 | MAILBOX TURNOUT |
| 424006-04 | DIAGONAL CURB RAMPS FOR SIDEWALKS |
| 442201-03 | CLASS C AND D PATCHES |
| 606101-05 | TYPE A GUTTER (INLET, OUTLET AND ENTRANCE) |
| 630001-12 | STEEL PLATE BEAM GUARDRAIL |
| 630301-09 | SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS |
| 631011-10 | TRAFFIC BARRIER TERMINAL, TYPE 2 |
| 701006-05 | OFF ROAD OPERATIONS - 2 LANE 2 WAY - 15 FOOT TO 24 INCHES FROM PAVEMENT EDGE |
| 701201-05 | LANE CLOSURE 2 LANE 2 WAY - DAY ONLY FOR SPEEDS 45 MPH OR MORE |
| 701301-04 | LANE CLOSURE 2 LANE 2 WAY - SHORT TIME OPERATIONS |
| 701306-04 | LANE CLOSURE 2 LANE 2 WAY - SLOW MOVING OPERATIONS DAY ONLY 45 MPH OR MORE |
| 701311-03 | LANE CLOSURE 2 LANE 2 WAY - MOVING OPERATIONS-DAY ONLY |
| 701326-04 | LANE CLOSURE 2 LANE 2 WAY - PAVEMENT WIDENING 45 MPH OR MORE |
| 701336-07 | LANE CLOSURE 2 LANE 2 WAY - WORK AREAS IN SERIES FOR SPEEDS 45 MPH OR MORE |
| 701701-10 | URBAN LANE CLOSURE MULTILANE INTERSECTION |
| 701801-06 | SIDEWALK, CORNER OR CROSSWALK CLOSURE |
| 701901-08 | TRAFFIC CONTROL DEVICES |
| 725001-01 | OBJECT AND TERMINAL MARKERS |
| 780001-05 | TYPICAL PAVEMENT MARKINGS |
| 781001-04 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS |
| 782006-01 | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS |
| 814001-03 | HANDHOLES |
| 876001-04 | PEDESTRIAN PUSH BUTTON POST |
| 886001-01 | DETECTOR LOOP INSTALLATIONS |
| 886006-01 | TYPICAL LAYOUTS FOR DETECTION LOOPS |

COMMITMENTS

NONE

| MIXTURE USE | SURFACE | | BINDER | |
|-----------------------------|-----------------------|--|-----------------------|--|
| AC/PG | PG 64-22 | | PG 64-22 | |
| RAP% (MAX) | SEE SPECIAL PROVISION | | SEE SPECIAL PROVISION | |
| DESIGN AIR VOIDS | 4.0% @ Ndes=70 | | 4.0% @ Ndes=70 | |
| MIX COMPOSITION (GRADATION) | IL 9.5 | | IL 19.0 | |
| FRICTION AGG | MIXTURE "D" | | MIXTURE "B" | |
| QUALITY MGMT PROGRAM | QCP | | QCP | |

| MIXTURE USE | SHOULDERS ≥ 2.25" | SHOULDERS < 2.25" |
|-----------------------------|-----------------------|-----------------------|
| AC/PG | PG 64-22 | PG 64-22 |
| RAP% (MAX) | SEE SPECIAL PROVISION | SEE SPECIAL PROVISION |
| DESIGN AIR VOIDS | 4.0% @Ndes=30 | 4.0% @Ndes=30 |
| MIX COMPOSITION (GRADATION) | IL 19.0L | IL 9.5L |
| FRICTION AGG | | |
| QUALITY MGMT PROGRAM | QC/QA | QC/QA |

PLAN QUANTITIES FOR HOT-MIX ASPHALT SURFACE COURSE ITEMS ARE CALCULATED USING A UNIT WEIGHT OF 112 LB/SQ YD/IN (59.8 KG/SQ M/25MM THICKNESS).

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| | | |
|------------------------------|------------|-----------|
| USER NAME = challandeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS
GENERAL NOTES, COMMITMENTS, AND MIX CHART**

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|-------------|----------------|----------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 586A | (51,59,31)RS-4 | MADISON | 31 | 2 |
| | | | CONTRACT NO. 76K43 | |
| | | ILLINOIS | FED. AID PROJECT | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | |
|----------|--|-------|----------------|-------------------------------------|------------------------------------|
| | | | | 80% FEDERAL 20% STATE ROADWAY | 80% FEDERAL 20% STATE SAFETY |
| | | | | 0005 | 0021 |
| | | | | URBAN | URBAN |
| 20200600 | EXCAVATING AND GRADING EXISTING SHOULDER | UNIT | 127 | 127 | |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 28573 | 28573 | |
| 40600990 | TEMPORARY RAMP | SQ YD | 736 | 736 | |
| 40603085 | HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70 | TON | 4360 | 4360 | |
| 40604062 | HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 | TON | 2907 | 2907 | |
| 42001300 | PROTECTIVE COAT | SQ YD | 103 | | 103 |
| 42400100 | PORTLAND CEMENT CONCRETE SIDEWALK 4 INCH | SQ FT | 812 | | 812 |
| 42400800 | DETECTABLE WARNINGS | SQ FT | 45 | | 45 |
| 44000164 | HOT-MIX ASPHALT SURFACE REMOVAL, 3 3/4" | SQ YD | 35428 | 35428 | |
| 44000400 | GUTTER REMOVAL | FOOT | 2196 | 2196 | |
| 44000500 | COMBINATION CURB AND GUTTER REMOVAL | FOOT | 37 | | 37 |
| 44000600 | SIDEWALK REMOVAL | SQ FT | 751 | | 751 |
| 44201815 | CLASS D PATCHES, TYPE II, 14 INCH | SQ YD | 478 | 478 | |
| 44201819 | CLASS D PATCHES, TYPE III, 14 INCH | SQ YD | 46 | 46 | |

MODEL: Default
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REV. - MS

| | | |
|------------------------------|------------|-----------|
| USER NAME = challandeske | DESIGNED - | REVISED - |
| PLOT SCALE = 100.0000' / in. | DRAWN - | REVISED - |
| PLOT DATE = 10/4/2019 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 1 OF 5 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|---------|--------------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 3 |
| | | | CONTRACT NO. 76K43 | |
| ILLINOIS FED. AID PROJECT | | | | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | |
|------------|--|--------|----------------|--------------------------|--------------------------|
| | | | | 80% FEDERAL 20% STATE | 80% FEDERAL 20% STATE |
| | | | | ROADWAY | SAFETY |
| | | | | 0005 URBAN | 0021 URBAN |
| 44300200 | STRIP REFLECTIVE CRACK CONTROL TREATMENT | FOOT | 24586 | 24586 | |
| 48102100 | AGGREGATE WEDGE SHOULDER, TYPE B | TON | 368 | 368 | |
| 48203029 | HOT-MIX ASPHALT SHOULDERS, 8" | SQ YD | 4243 | 4243 | |
| 48203100 | HOT-MIX ASPHALT SHOULDERS | TON | 173 | 173 | |
| 60500060 | REMOVING INLETS | EACH | 2 | 2 | |
| 60600095 | CLASS SI CONCRETE (OUTLET) | CU YD | 33 | 33 | |
| 60602500 | CONCRETE GUTTER, TYPE A | FOOT | 5654 | 5654 | |
| 60603100 | CONCRETE GUTTER TRANSITION | FOOT | 72 | 72 | |
| 60605000 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 | FOOT | 37 | | 37 |
| * 63000003 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 9 FOOT POSTS | FOOT | 1612.5 | 1612.5 | |
| * 63100045 | TRAFFIC BARRIER TERMINAL, TYPE 2 | EACH | 5 | 5 | |
| * 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | EACH | 13 | 13 | |
| 63200310 | GUARDRAIL REMOVAL | FOOT | 1447.5 | 1447.5 | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 4 | 4 | |

* SPECIALTY ITEM

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| | | |
|-------------------------------|------------|-----------|
| USER NAME = challandeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/4/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 2 OF 5 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|----------------|----------|--------------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 4 |
| | | | CONTRACT NO. 76K43 | |
| | | ILLINOIS | FED. AID PROJECT | |

| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | |
|------------|---|-------|----------------|--------------------------|--------------------------|
| | | | | 80% FEDERAL 20% STATE | 80% FEDERAL 20% STATE |
| | | | | ROADWAY | SAFETY |
| | | | | 0005 URBAN | 0021 URBAN |
| 67100100 | MOBILIZATION | L SUM | 1 | 0.9 | 0.1 |
| 70100450 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 | L SUM | 1 | 1 | |
| 70100460 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701306 | L SUM | 1 | 1 | |
| 70100500 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701326 | L SUM | 1 | 1 | |
| 70100600 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701336 | L SUM | 1 | 1 | |
| 70102635 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701701 | L SUM | 1 | 1 | |
| 70102640 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701801 | L SUM | 1 | | 1 |
| 70300100 | SHORT TERM PAVEMENT MARKING | FOOT | 3353 | 3353 | |
| 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SQ FT | 373 | 373 | |
| 70300210 | TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS | SQ FT | 62 | 62 | |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 49473 | 49473 | |
| 70300260 | TEMPORARY PAVEMENT MARKING - LINE 12" | FOOT | 416 | 416 | |
| 70300280 | TEMPORARY PAVEMENT MARKING - LINE 24" | FOOT | 68 | 68 | |
| * 72501000 | TERMINAL MARKER - DIRECT APPLIED | EACH | 13 | 13 | |

*** SPECIALTY ITEM**

| | | |
|------------------------------|------------|-----------|
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| | DRAWN - | REVISED - |
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| PLOT DATE = 10/4/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES

SCALE: SHEET 3 OF 5 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|---------|---------------------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 5 |
| CONTRACT NO. 76K43 | | | ILLINOIS FED. AID PROJECT | |

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| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | CONSTRUCTION CODE | |
|------------|--|-------|----------------|--------------------------|--------------------------|
| | | | | 80% FEDERAL 20% STATE | 80% FEDERAL 20% STATE |
| | | | | ROADWAY | SAFETY |
| | | | | 0005 URBAN | 0021 URBAN |
| * 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SQ FT | 62 | 62 | |
| * 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 49473 | 49473 | |
| * 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" | FOOT | 416 | 416 | |
| * 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 68 | 68 | |
| * 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 200 | 200 | |
| * 78200005 | GUARDRAIL REFLECTORS, TYPE A | EACH | 36 | 36 | |
| | 78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 200 | 200 | |
| * 80300100 | LOCATING UNDERGROUND CABLE | FOOT | 40 | 40 | |
| * 81028340 | UNDERGROUND CONDUIT, PVC, 1 1/2" DIA. | FOOT | 14 | | 14 |
| * 87602000 | PEDESTRIAN PUSH-BUTTON POST | EACH | 3 | | 3 |
| * 87900200 | DRILL EXISTING HANDHOLE | EACH | 3 | | 3 |
| * 88600600 | DETECTOR LOOP REPLACEMENT | FOOT | 810 | 810 | |
| * 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 6 | | 6 |
| * 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 203 | | 203 |

*** SPECIALTY ITEM**

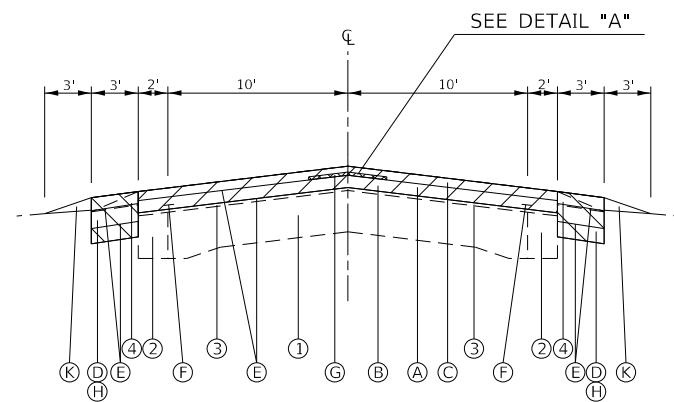
| | | |
|------------------------------|------------|-----------|
| USER NAME = challandeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/4/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

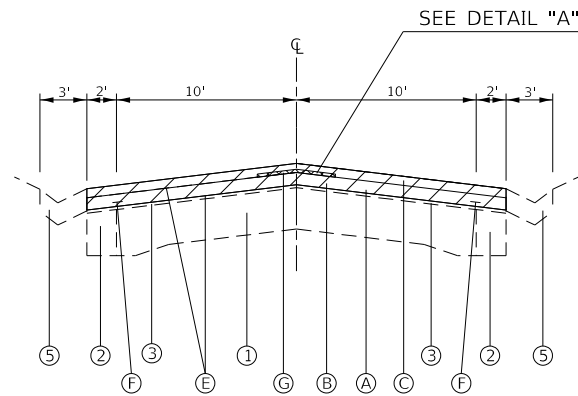
SUMMARY OF QUANTITIES

SCALE: SHEET 4 OF 5 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|---------|---------------------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 6 |
| CONTRACT NO. 76K43 | | | ILLINOIS FED. AID PROJECT | |



STA. 239+50 TO STA. 243+32
 STA. 271+28 TO STA. 271+91
 STA. 278+61 TO STA. 284+23*
 STA. 295+61 TO STA. 304+49*
 STA. 312+00 TO STA. 321+00
 STA. 327+90 TO STA. 347+13
 STA. 349+79 TO STA. 356+97
 STA. 361+85 TO STA. 362+54
 *OMISSION AT KEEBLER ROAD
 STA. 284+23 TO STA. 295+61



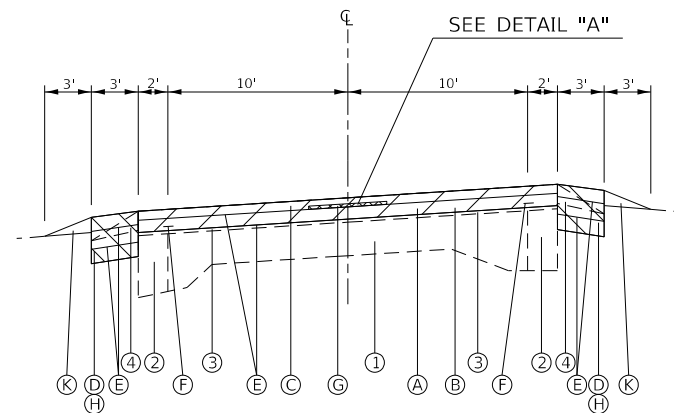
STA. 251+35 TO STA. 253+08
 STA. 265+39 TO STA. 271+28
 STA. 304+49 TO STA. 312+00
 STA. 321+00 TO STA. 327+90
 STA. 347+13 TO STA. 349+79

LEGEND

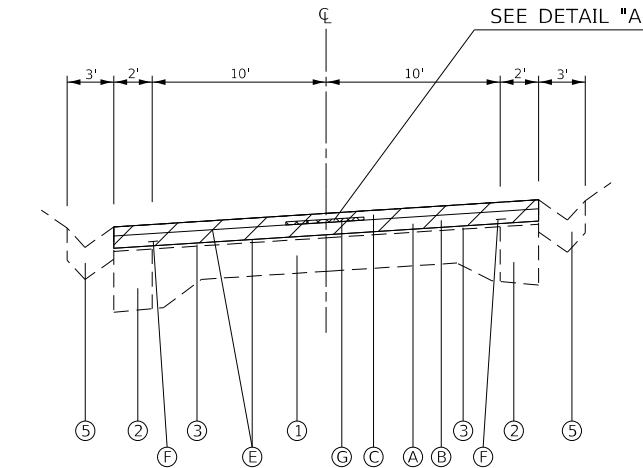
- 1 EXISTING CONCRETE PAVEMENT (9"-7"-9")
- 2 EXISTING BASE COURSE WIDENING (CONCRETE), 9"
- 3 EXISTING HOT-MIX ASPHALT OVERLAY, THICKNESS VARIES
- 4 EXISTING AGGREGATE WEDGE, TYPE B
- 5 EXISTING CONCRETE GUTTER, TYPE B
- 6 EXISTING BITUMINOUS SHOULDER, 8"

- A PROPOSED HMA REMOVAL 3.75"
- B PROPOSED BINDER 2 1/4"
- C PROPOSED SURFACE 1 1/2"
- D PROPOSED EXCAVATING AND GRADING EXISTING SHOULDER
- E PROPOSED HMA (TACK COAT)
- F PROPOSED STRIP REFLECTIVE CRACK CONTROL
- G PROPOSED LONGITUDINAL JOINT SEALANT
- H PROPOSED HMA SHOULDER, 8"
- J PROPOSED HMA SHOULDER OVERLAY 3 3/4"
- K PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ** PROPOSED CONCRETE GUTTER, TYPE A

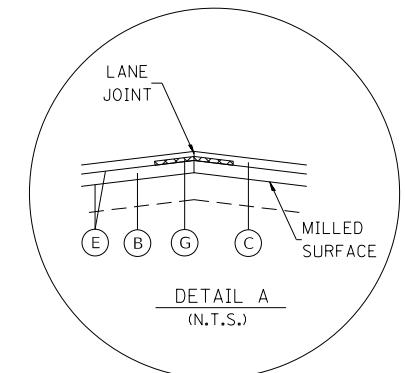
** SEE GUTTER AND SHOULDER SCHEDULE FOR CONCRETE GUTTER, TYPE A LOCATIONS



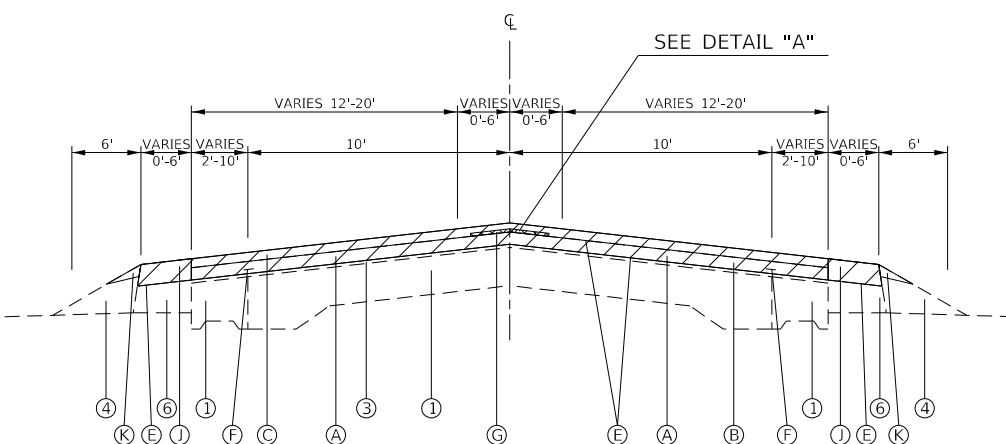
STA. 255+40 TO STA. 260+77
 STA. 271+91 TO STA. 278+61
 STA. 356+97 TO STA. 361+85



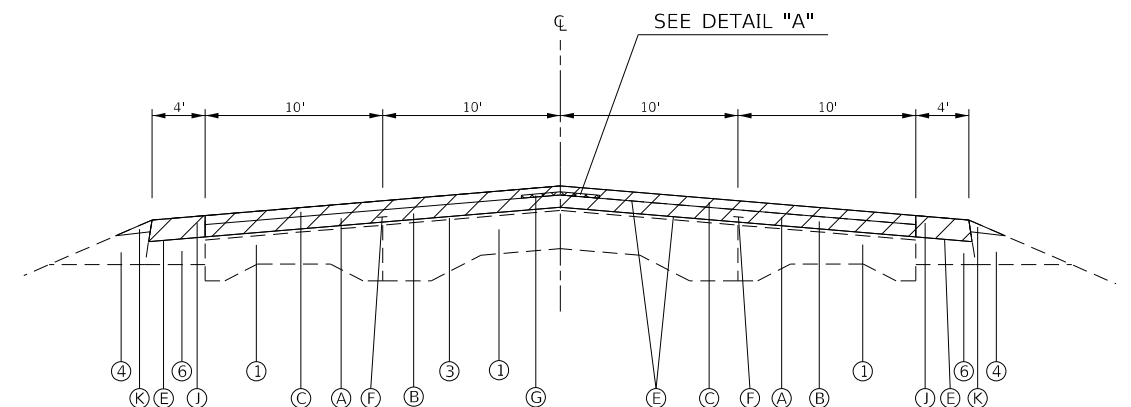
STA. 243+32 TO STA. 251+35
 STA. 253+08 TO STA. 255+40
 STA. 260+77 TO STA. 265+39



**DETAIL "A" SHALL BE APPLIED ALONG THE CENTERLINE OF PAVEMENT



STA. 362+54 TO STA. 367+00
 STA. 371+00 TO STA. 374+60



STA. 367+00 TO STA. 371+00*
 *OMISSION AT IL 159 STA. 368+40 TO STA. 369+12

MODEL: Default
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 PLOT DATE: 10/2/2019

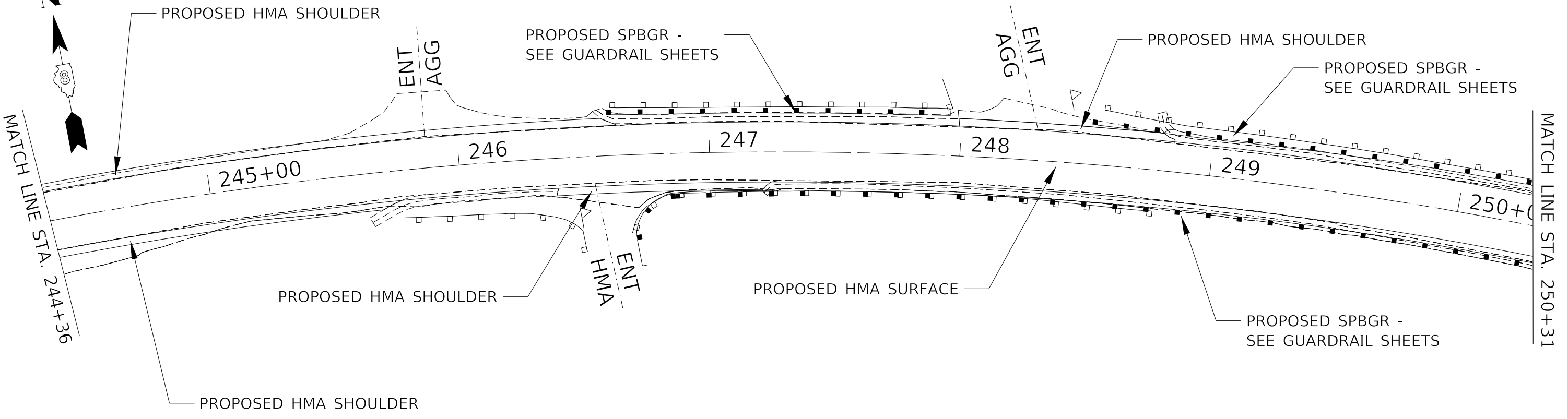
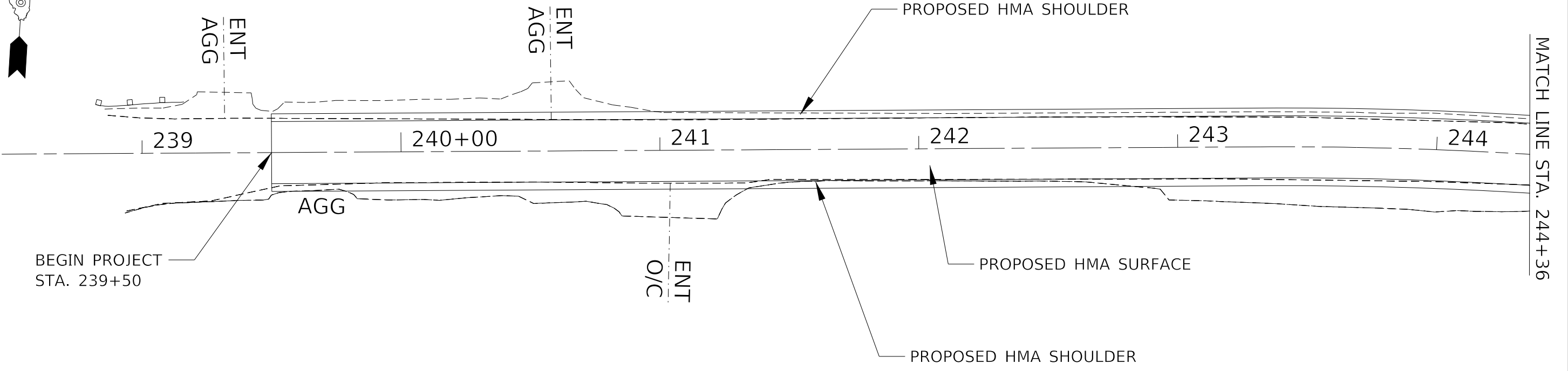
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|------------------------------|------------|-----------|
| USER NAME = challandeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|---------|---------------------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 8 |
| CONTRACT NO. 76K43 | | | ILLINOIS FED. AID PROJECT | |



SEE STANDARD 780001-05 FOR PAVEMENT MARKING DETAILS NOT SHOWN

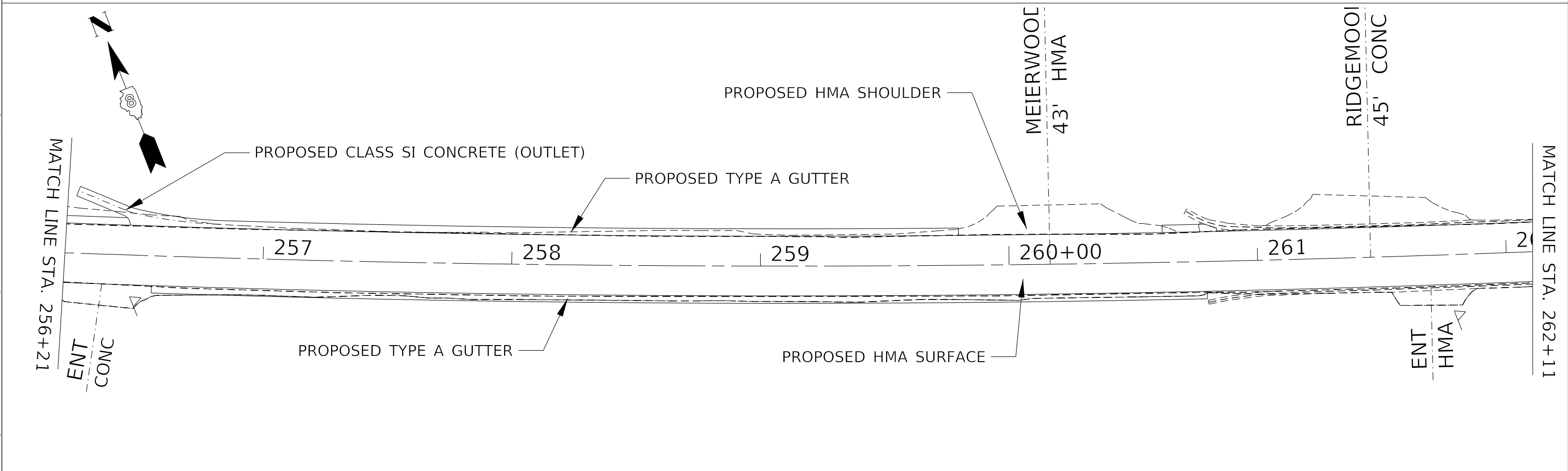
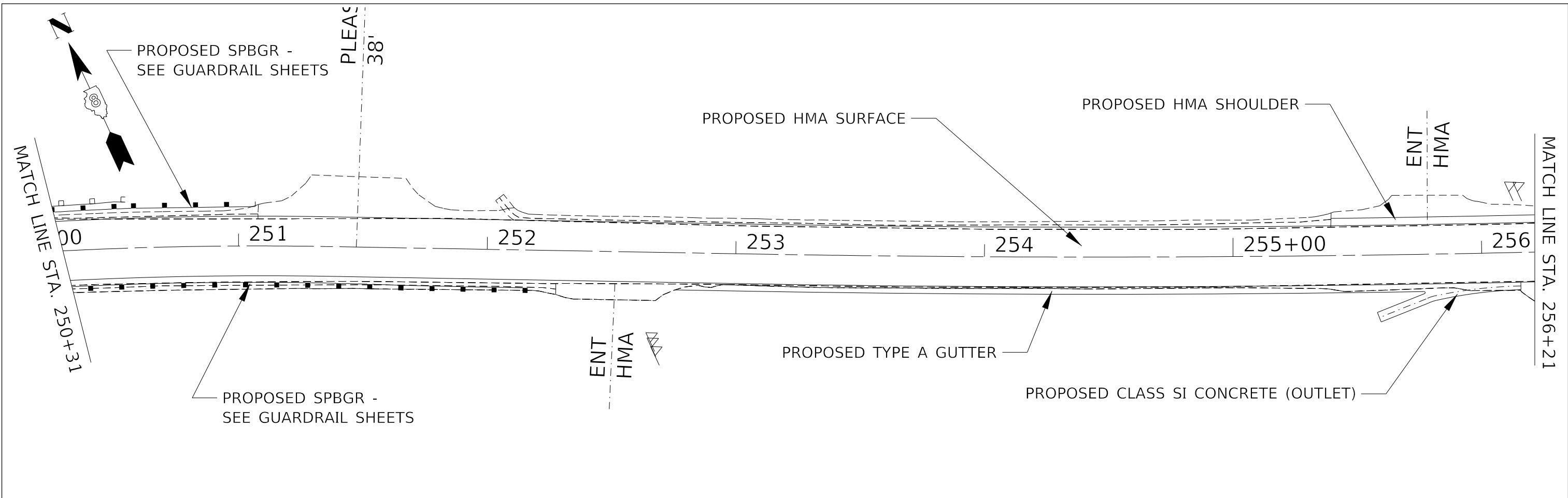
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|------------------------------|------------|-----------|
| USER NAME = challandeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET
SCALE: 1"=40'
SHEET 1 OF 12 SHEETS
STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|---------|--------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 11 |
| CONTRACT NO. 76K43 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

MODEL: Default
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SEE STANDARD 780001-05 FOR PAVEMENT MARKING DETAILS NOT SHOWN

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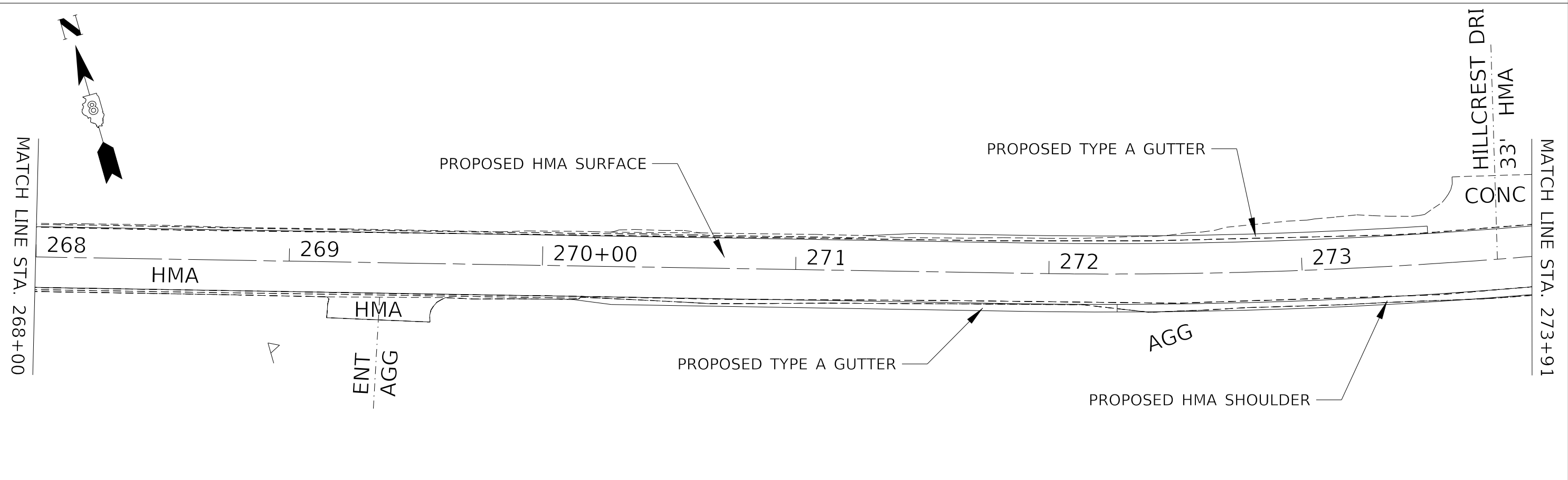
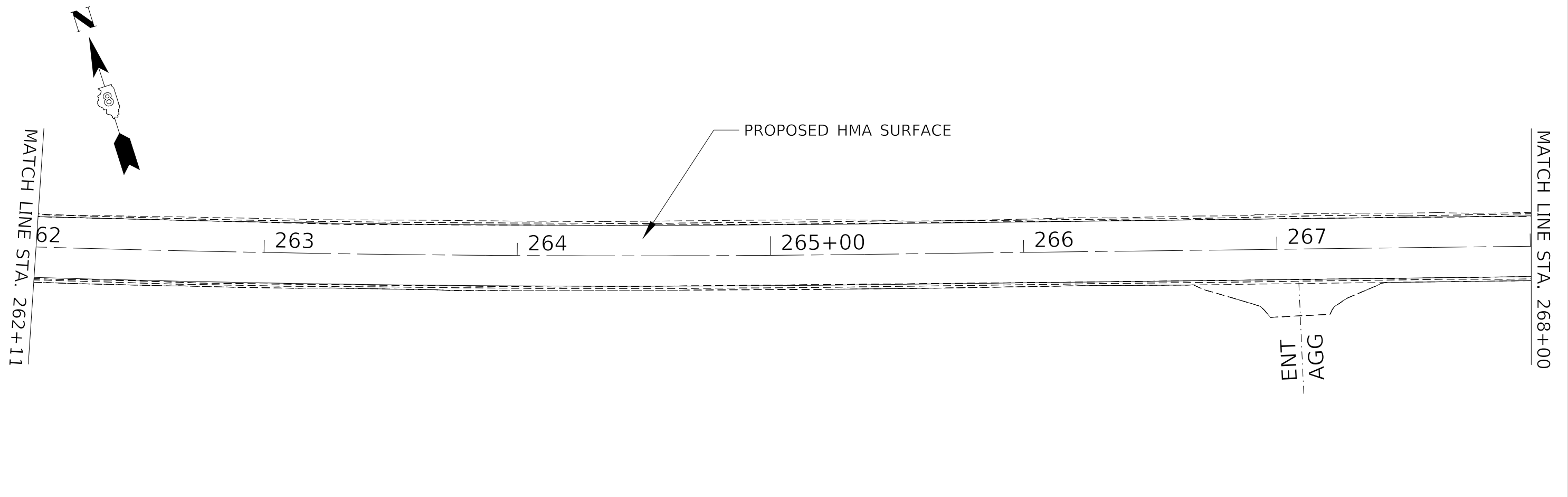
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|------------------------------|------------|-----------|
| USER NAME = challandeske | DESIGNED - | REVISED - |
| DRAWN - | REVISOR - | |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - | REVISOR - |
| PLOT DATE = 10/2/2019 | DATE - | REVISOR - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET

SCALE: 1"=40' SHEET 2 OF 12 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|---------|--------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 12 |
| CONTRACT NO. 76K43 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



SEE STANDARD 780001-05 FOR PAVEMENT MARKING DETAILS NOT SHOWN

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 PLOT DATE: 10/2/2019

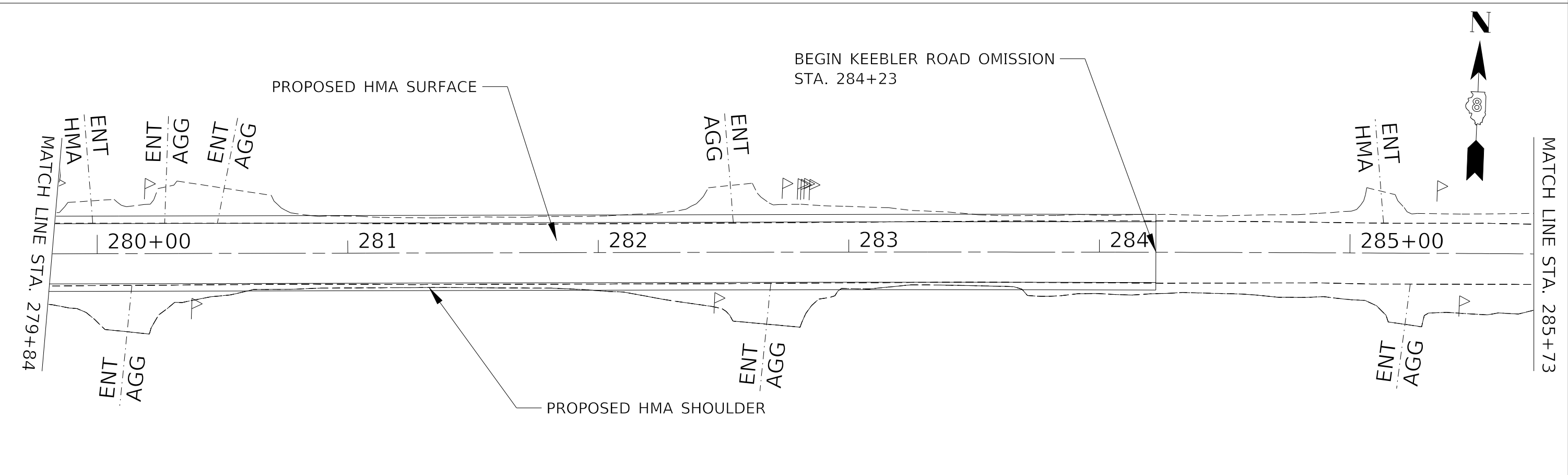
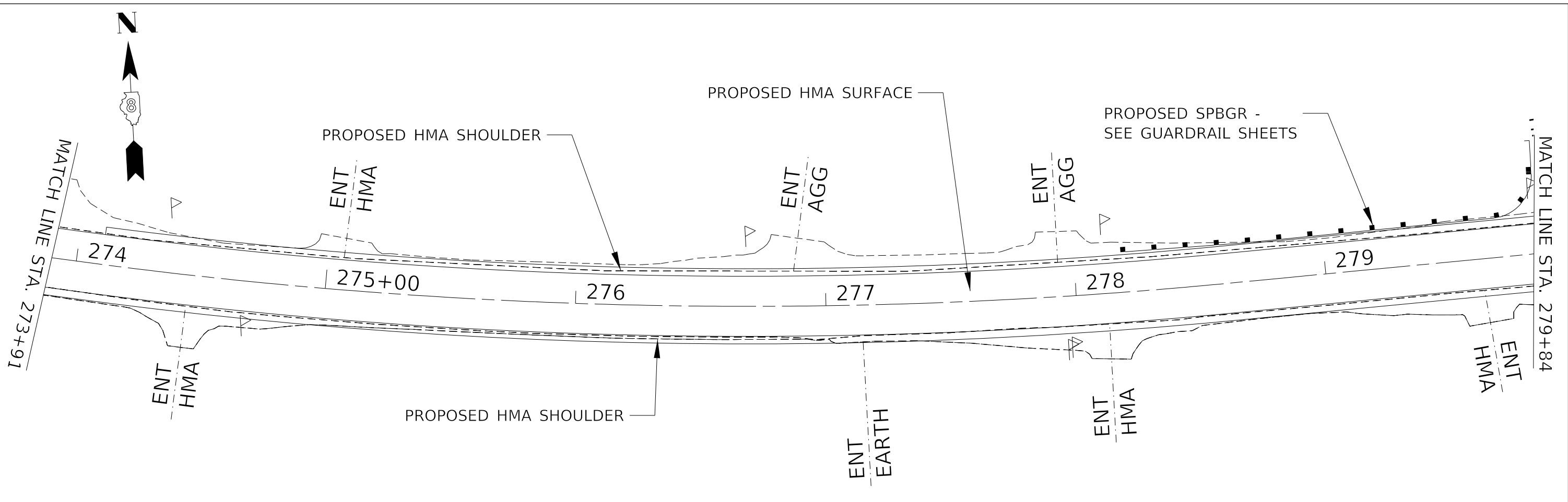
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|------------------------------|------------|-----------|
| USER NAME = challeske | DESIGNED - | REVISED - |
| DRAWN - | REVISOR - | |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - | REVISOR - |
| PLOT DATE = 10/2/2019 | DATE - | REVISOR - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET

SCALE: 1"=40' SHEET 3 OF 12 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|---------|--------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 13 |
| CONTRACT NO. 76K43 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



SEE STANDARD 780001-05 FOR PAVEMENT MARKING DETAILS NOT SHOWN

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 PLOT DATE: 10/2/2019

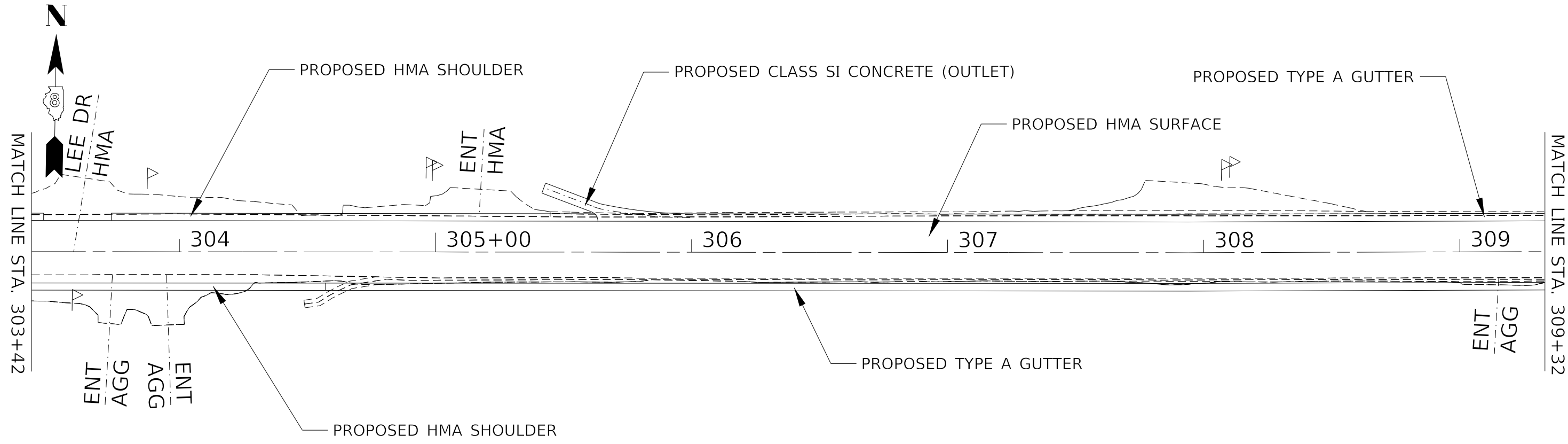
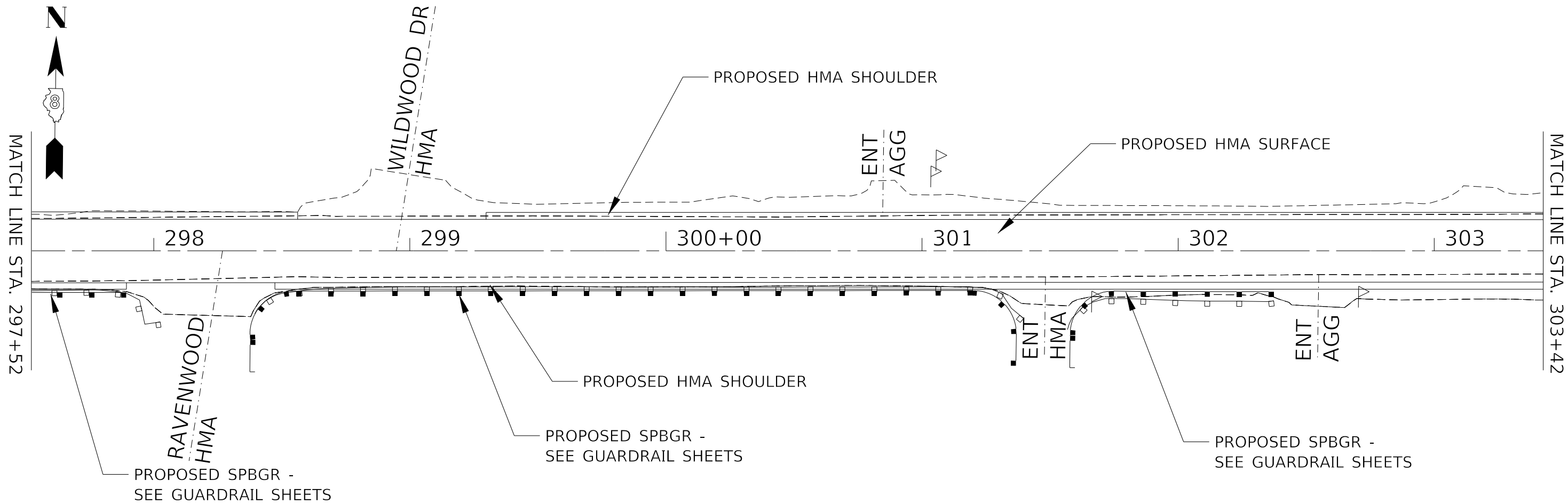
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|------------------------------|------------|-----------|
| USER NAME = challeske | DESIGNED - | REVISED - |
| PLOT SCALE = 40,0000 ' / in. | DRAWN - | REVISED - |
| PLOT DATE = 10/2/2019 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PLAN SHEET

SCALE: 1"=40' SHEET 4 OF 12 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|---------|--------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 14 |
| CONTRACT NO. 76K43 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



SEE STANDARD 780001-05 FOR PAVEMENT MARKING DETAILS NOT SHOWN

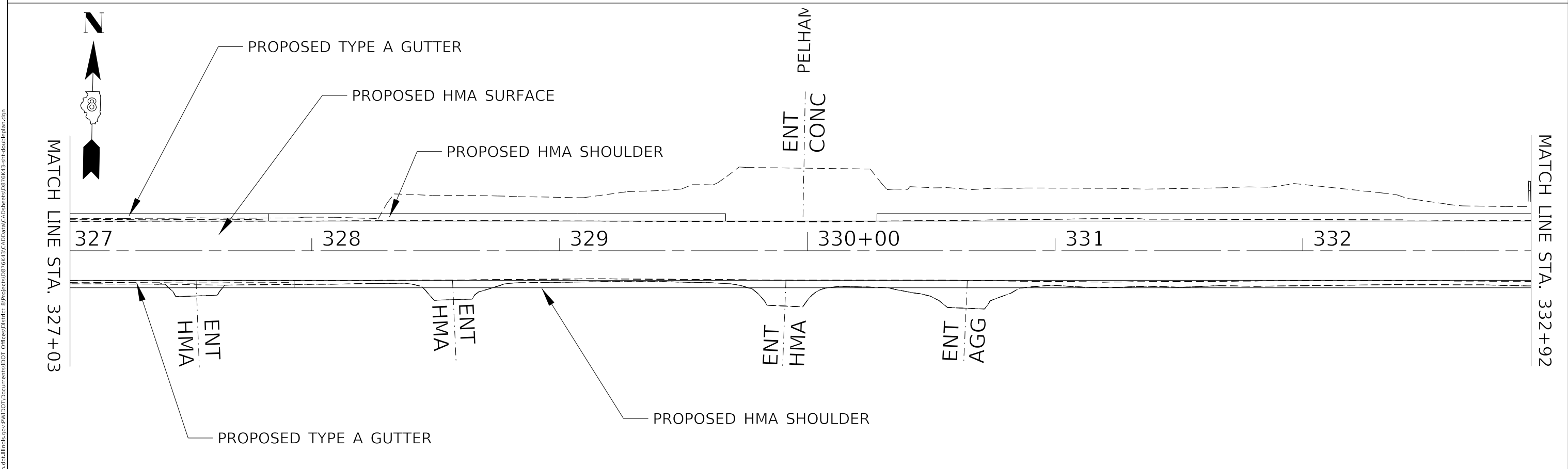
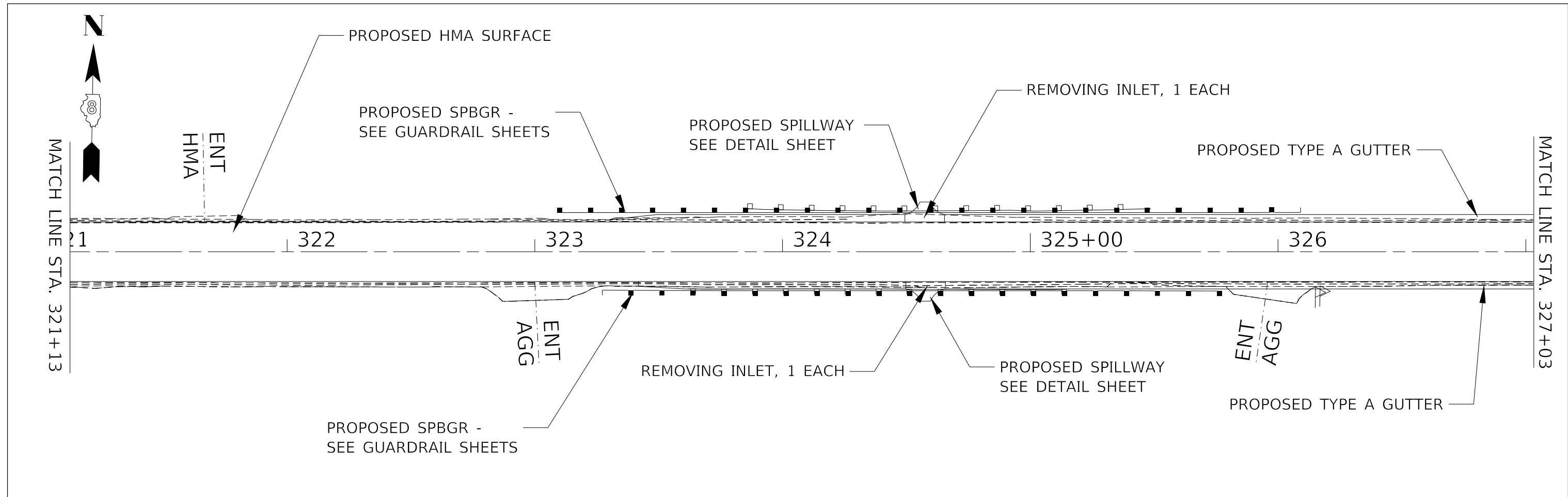
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 PLOT DATE: 10/2/2019

| | | |
|------------------------------|------------|-----------|
| USER NAME = challeske | DESIGNED - | REVISED - |
| PLOT SCALE = 40,0000 ' / in. | DRAWN - | REVISED - |
| PLOT DATE = 10/2/2019 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|-------------------|---------|--------------|--------------|
| PLAN SHEET | | | |
| SCALE: 1"=40' | SHEET 6 | OF 12 SHEETS | STA. TO STA. |

| | | | | |
|---------------------------|----------------|---------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 586A | (51,59,31)RS-4 | MADISON | 31 | 16 |
| CONTRACT NO. 76K43 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



SEE STANDARD 780001-05 FOR PAVEMENT MARKING DETAILS NOT SHOWN

| | | |
|------------------------------|------------|-----------|
| USER NAME = challandeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

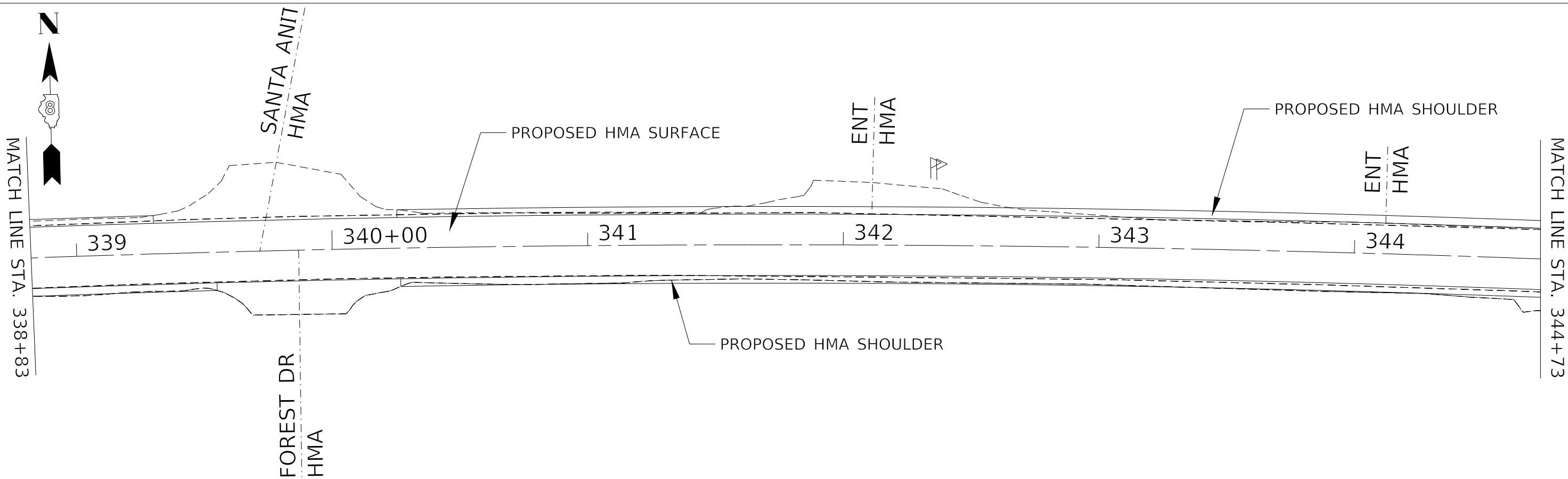
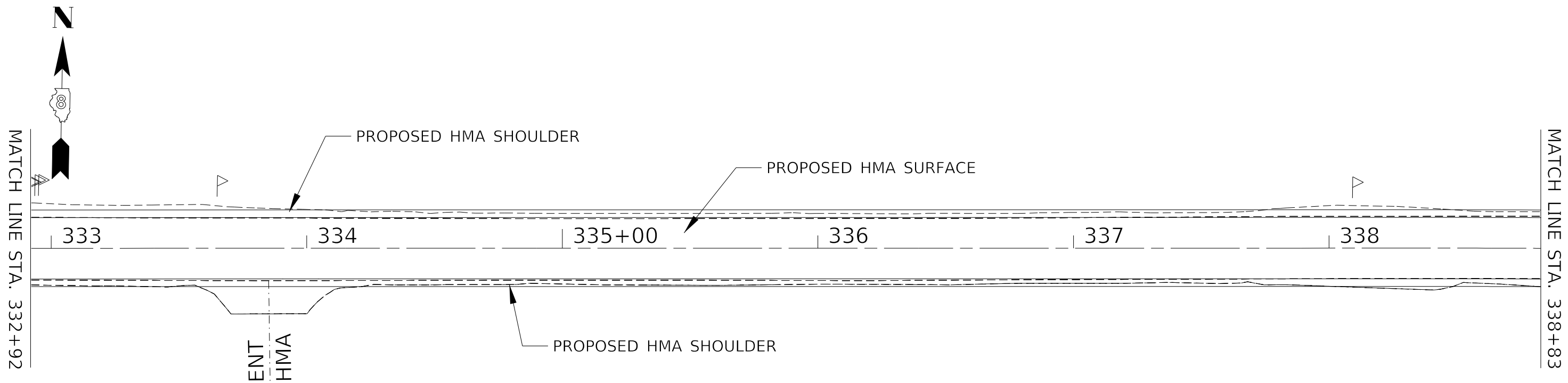
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET

SCALE: 1"=40' SHEET 8 OF 12 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|---------|---------------------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 18 |
| CONTRACT NO. 76K43 | | | ILLINOIS FED. AID PROJECT | |

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SEE STANDARD 780001-05 FOR PAVEMENT MARKING DETAILS NOT SHOWN

MODEL: Default
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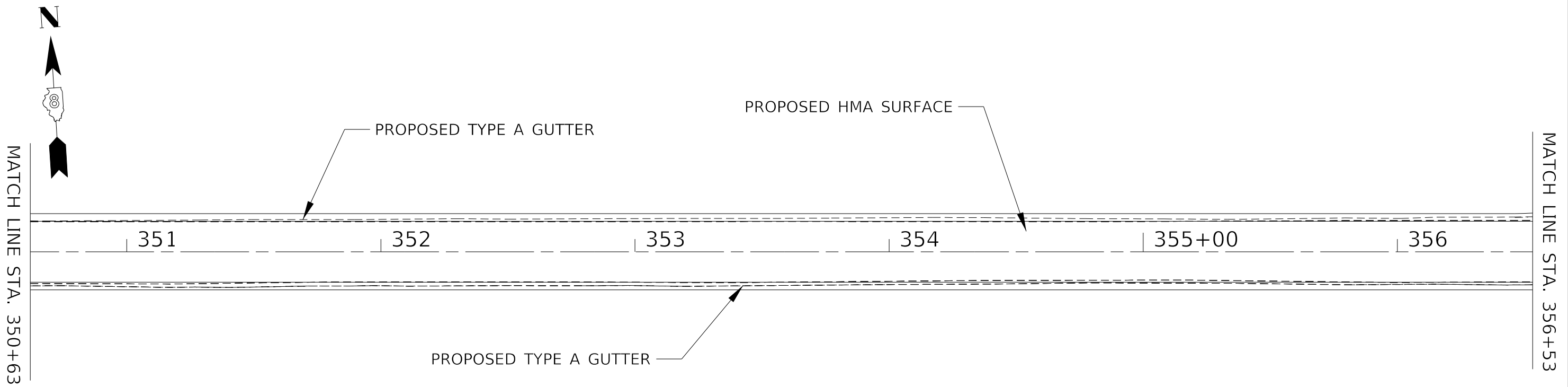
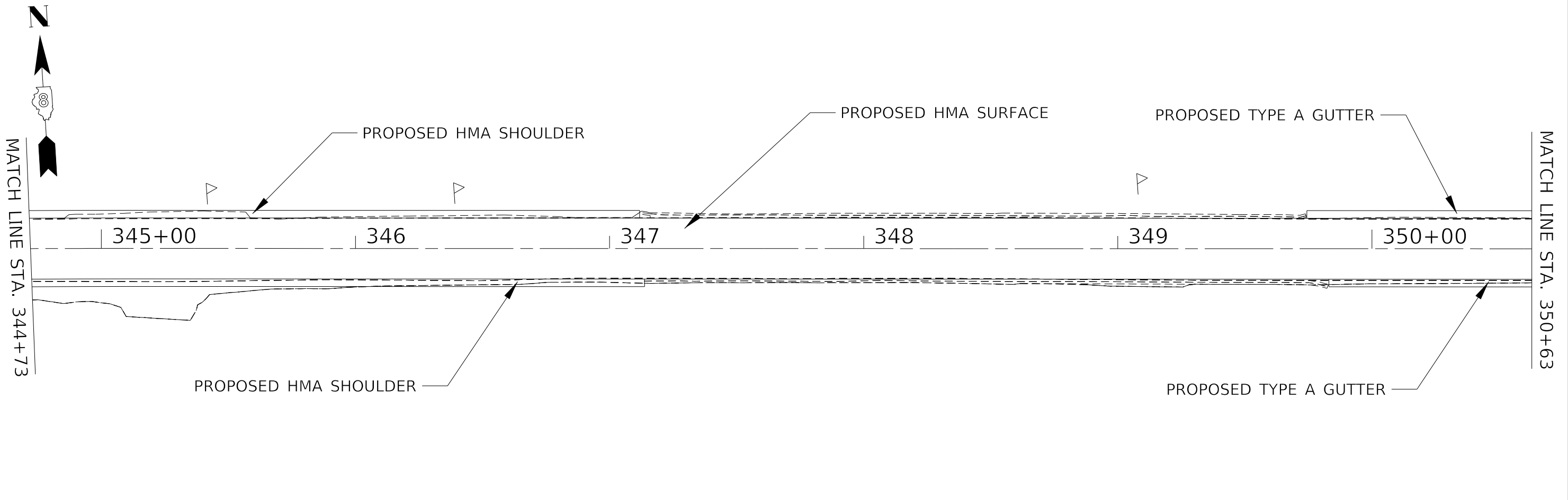
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| USER NAME = challeske | DESIGNED - | REVISED - |
| PLOT SCALE = 40,0000' / in. | DRAWN - | REVISED - |
| PLOT DATE = 10/2/2019 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|-------------------|---------|--------------|--------------|
| PLAN SHEET | | | |
| SCALE: 1"=40' | SHEET 9 | OF 12 SHEETS | STA. TO STA. |

| | | | | |
|---------------------|---------------------------|-------------------|--------------------|-----------------|
| F.A.P. RTE. 586A | SECTION (51,59,31)RS-4 | COUNTY MADISON | TOTAL SHEETS 31 | SHEET NO. 19 |
| ILLINOIS | | | FED. AID PROJECT | |

CONTRACT NO. 76K43



SEE STANDARD 780001-05 FOR PAVEMENT MARKING DETAILS NOT SHOWN

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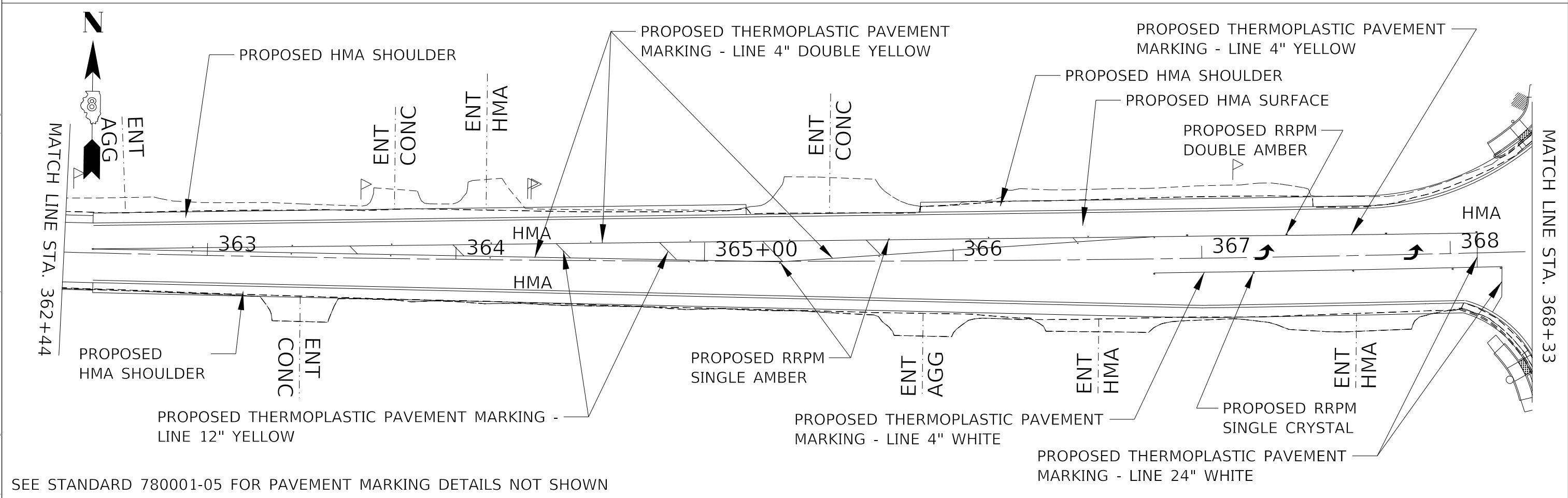
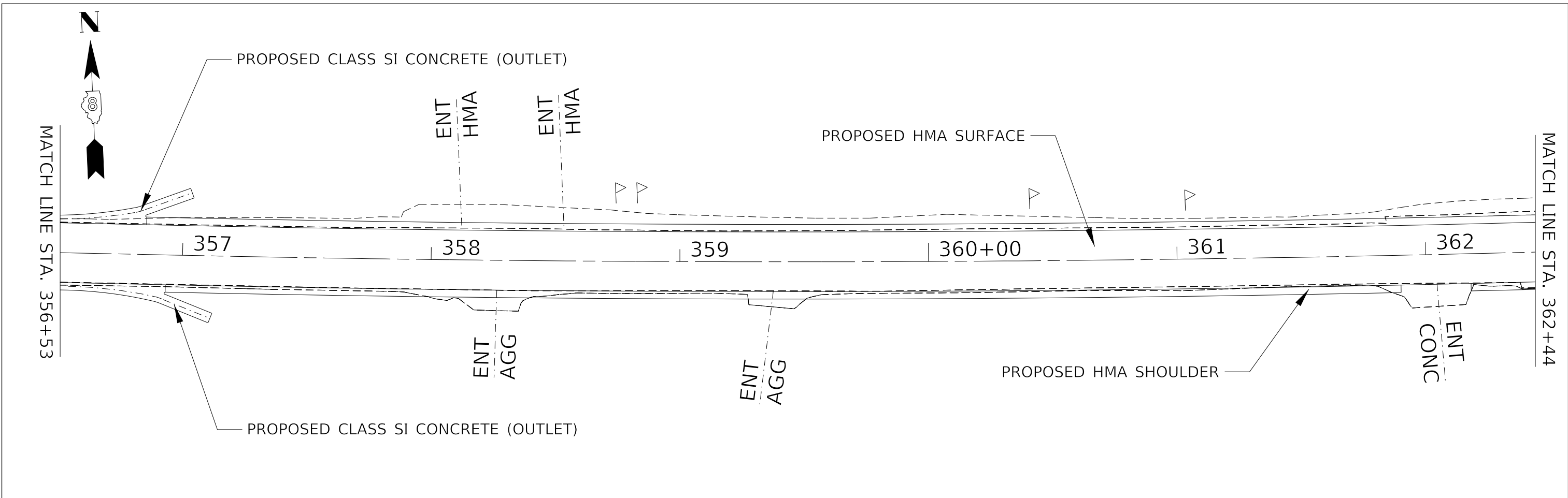
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| USER NAME = challeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET

SCALE: 1"=40' SHEET 10 OF 12 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|---------|--------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 20 |
| CONTRACT NO. 76K43 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



SEE STANDARD 780001-05 FOR PAVEMENT MARKING DETAILS NOT SHOWN

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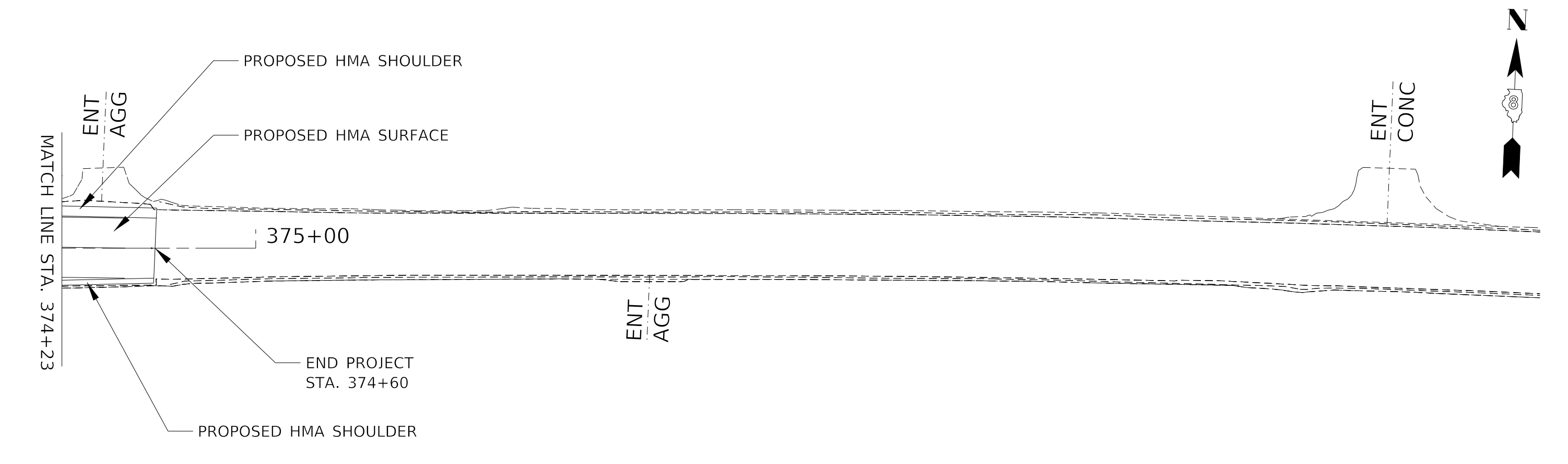
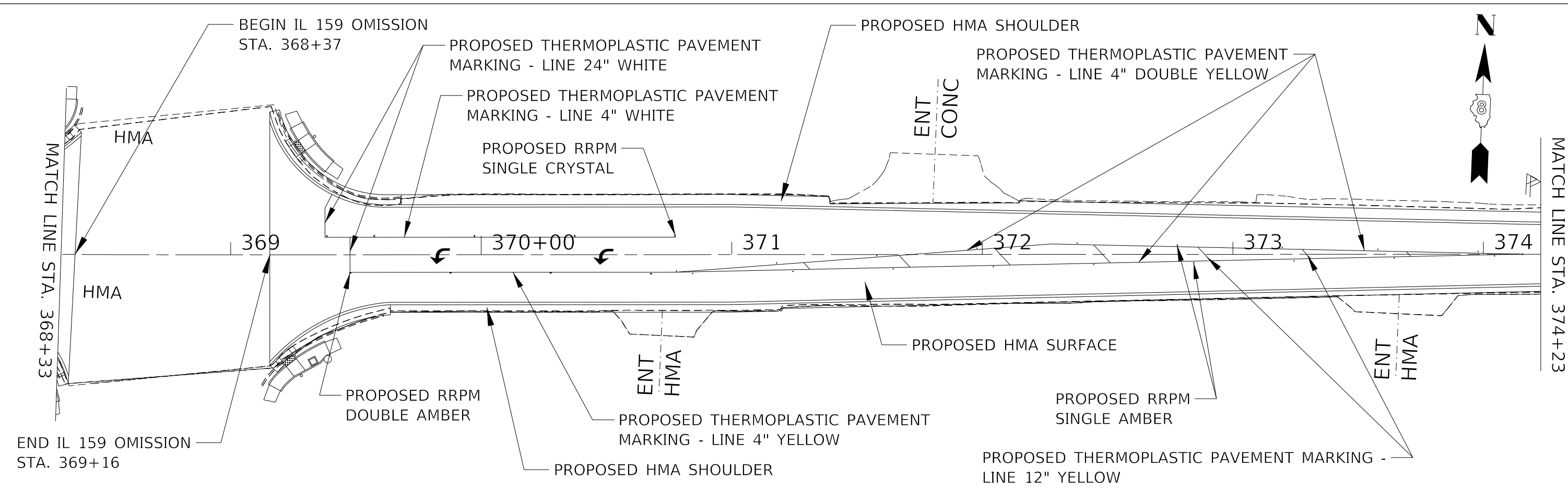
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|-----------------------------|------------|-----------|
| USER NAME = challeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 40.0000' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PLAN SHEET

SCALE: 1"=40' SHEET 11 OF 12 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|---------|--------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 21 |
| CONTRACT NO. 76K43 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



SEE STANDARD 780001-05 FOR PAVEMENT MARKING DETAILS NOT SHOWN

| | | |
|------------------------------|------------|-----------|
| USER NAME = challandeske | DESIGNED - | REVISED - |
| DRAWN - | REVISIED - | |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

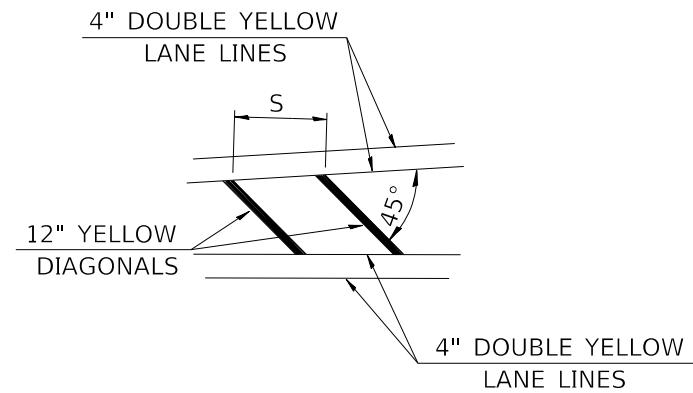
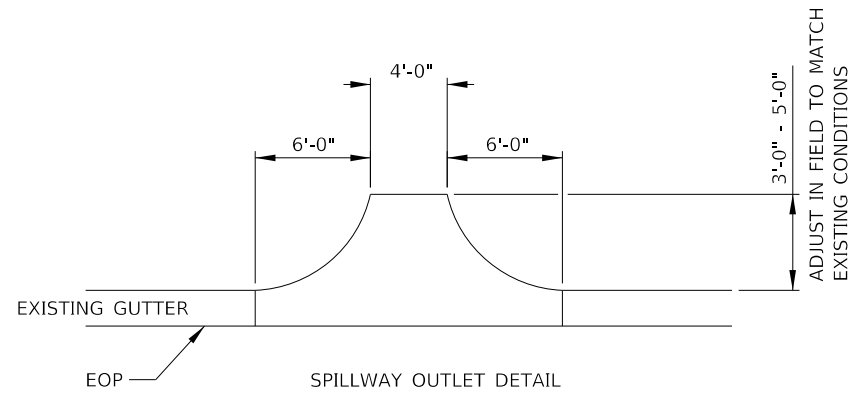
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN SHEET

SCALE: 1"=40' SHEET 12 OF 12 SHEETS STA. TO STA.

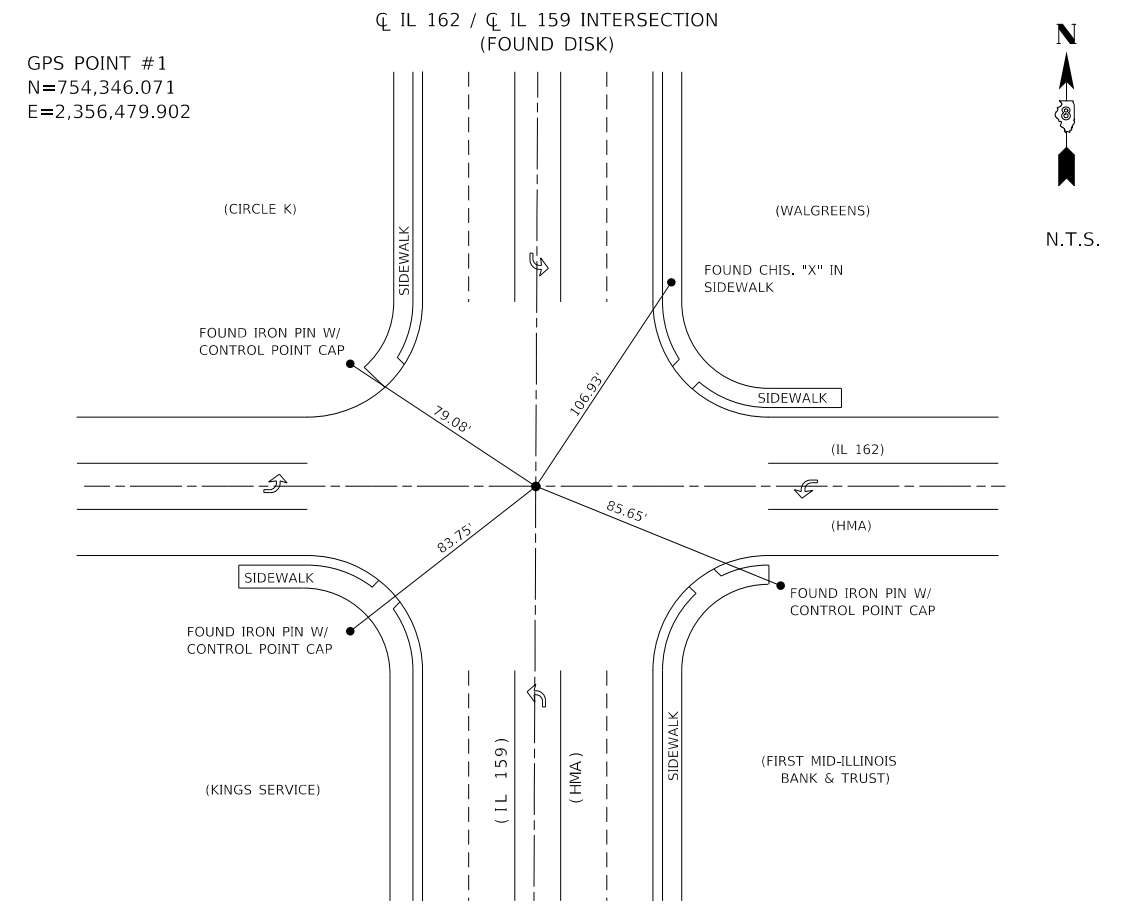
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|----------------|---------|------------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 22 |
| ILLINOIS | | | FED. AID PROJECT | |

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TYPICAL APPLICATION FOR MEDIAN STRIPING

| SPEED | CHANNELIZATION & GORES | OBJECTS | CONTINUOUS |
|-----------|------------------------|---------|------------|
| <30 MPH | 15' 10' | 50' | |
| 30-45 MPH | 20' 15' | 75' | |
| >45 MPH | 30' 20' | 150' | |



MODEL: Default
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PROJECT: 10/2/2019
DRAWN: challeske
CHECKED: challeske
DATE: 10/2/2019

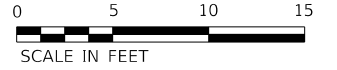
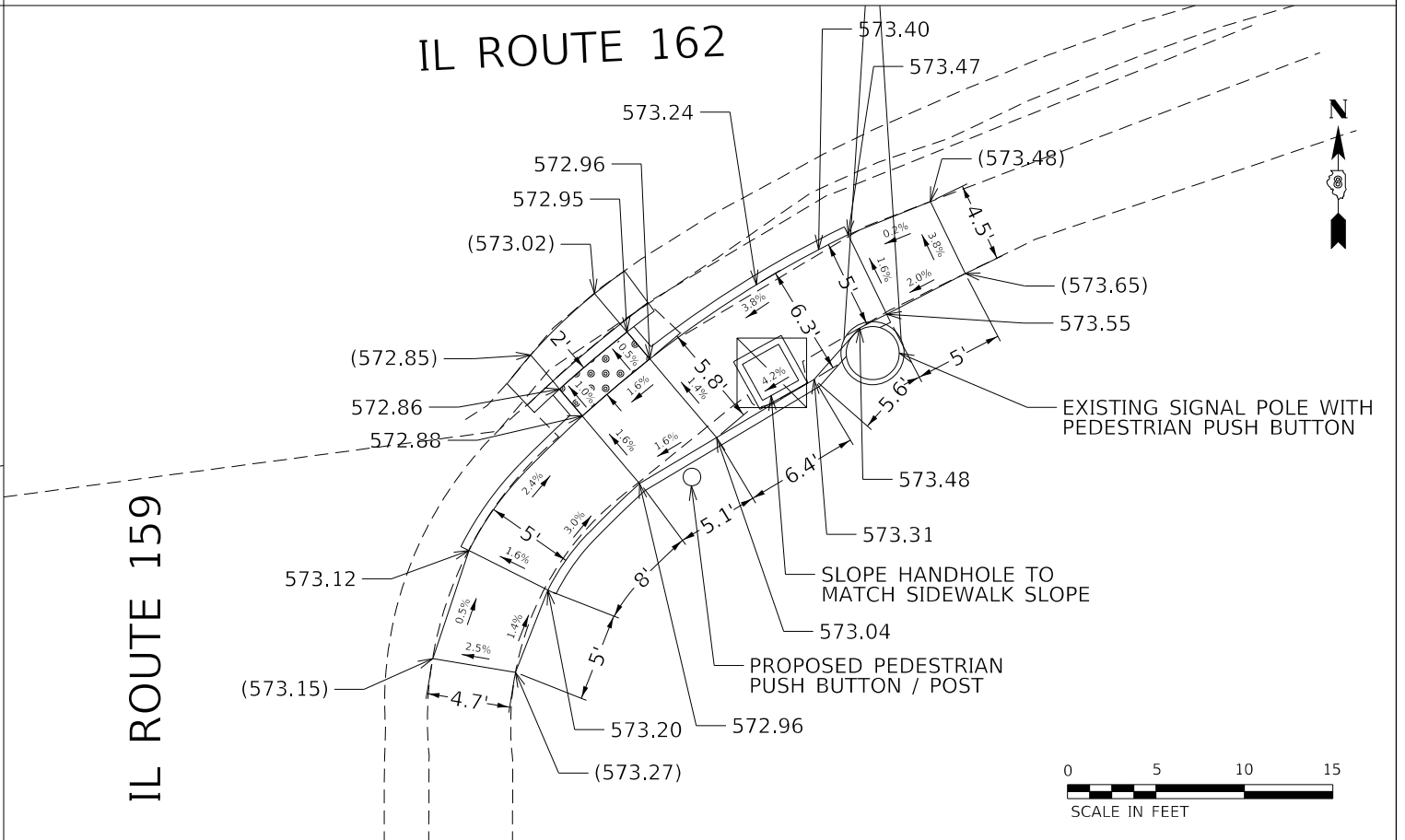
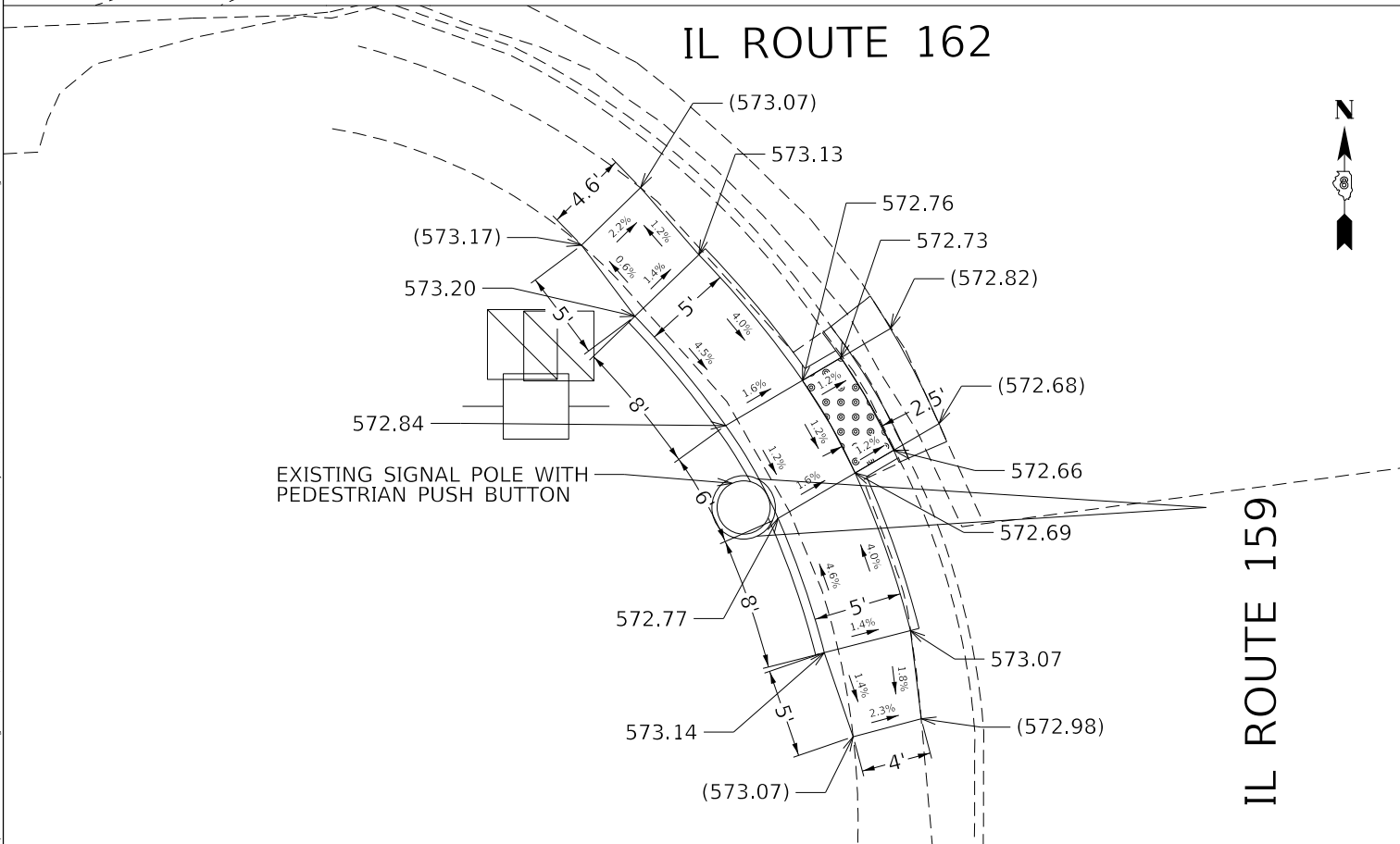
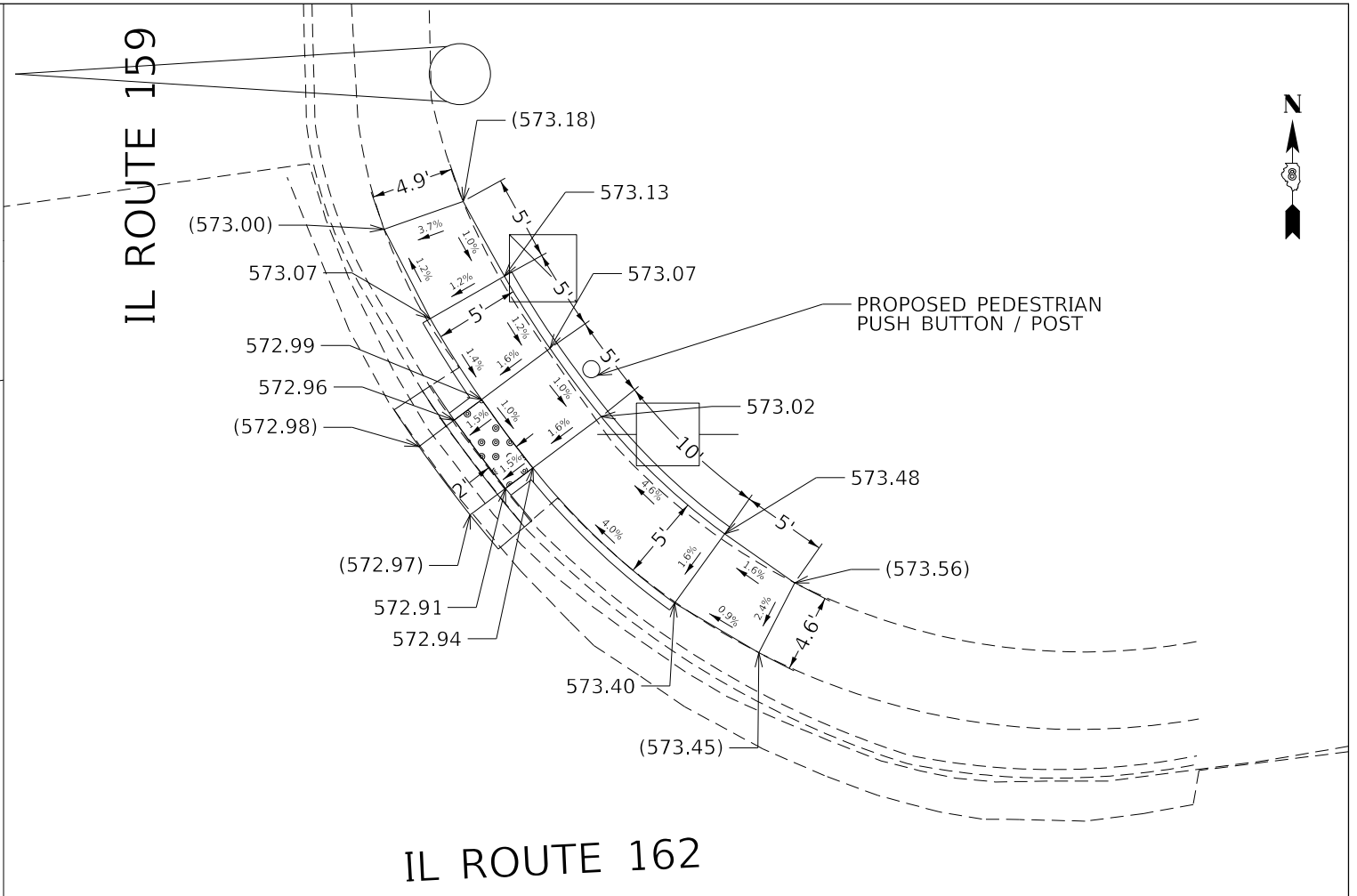
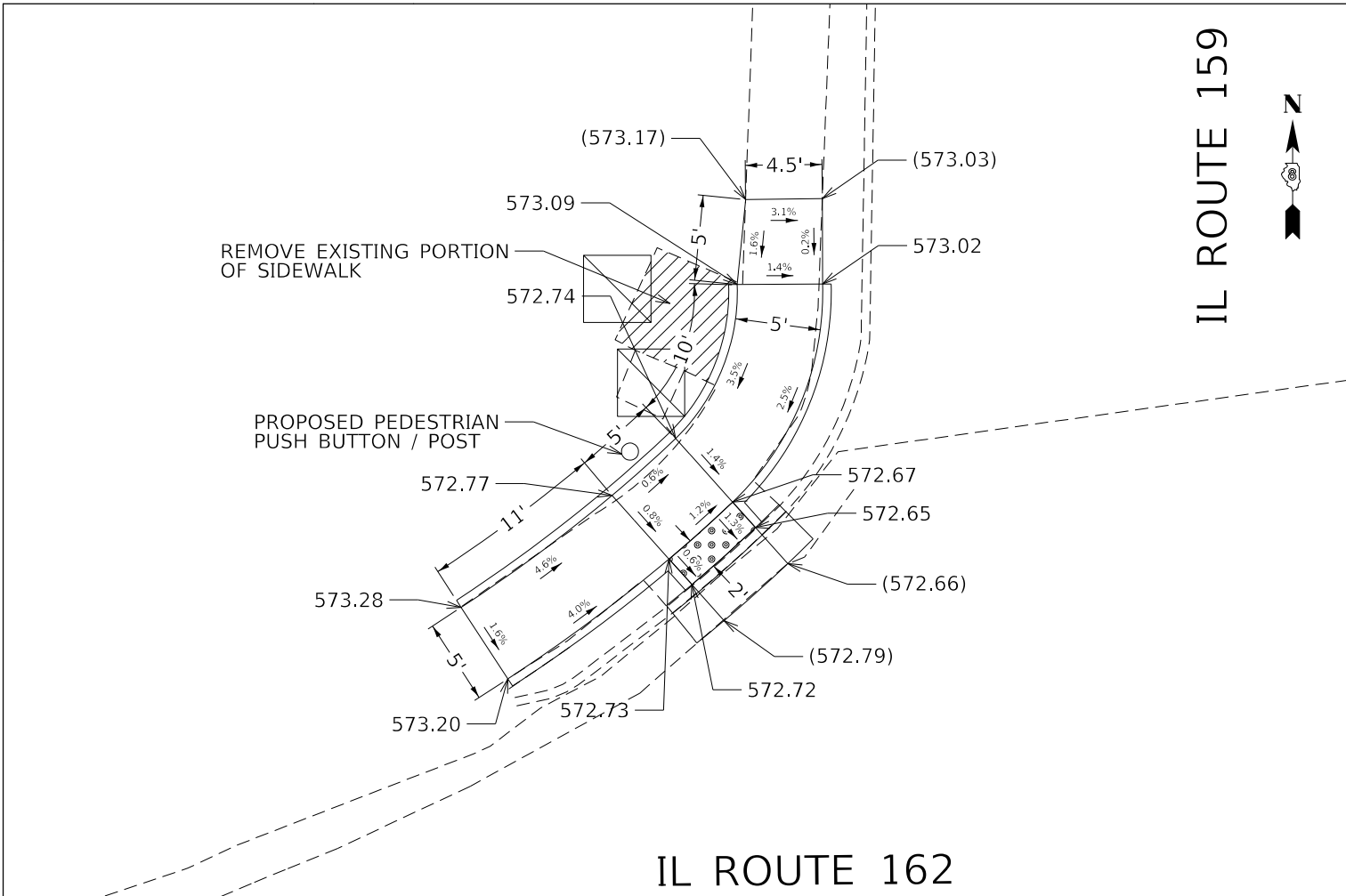
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|------------------------------|------------|-----------|
| USER NAME = challeske | DESIGNED - | REVISED - |
| PLOT SCALE = 100.0000' / in. | DRAWN - | REVISED - |
| PLOT DATE = 10/2/2019 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | | | |
|--------|-------|----|--------|------|----|------|
| SCALE: | SHEET | OF | SHEETS | STA. | TO | STA. |
|--------|-------|----|--------|------|----|------|

| | | | | |
|---------------------------|----------------|---------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 586A | (51,59,31)RS-4 | MADISON | 31 | 23 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 76K43 | |

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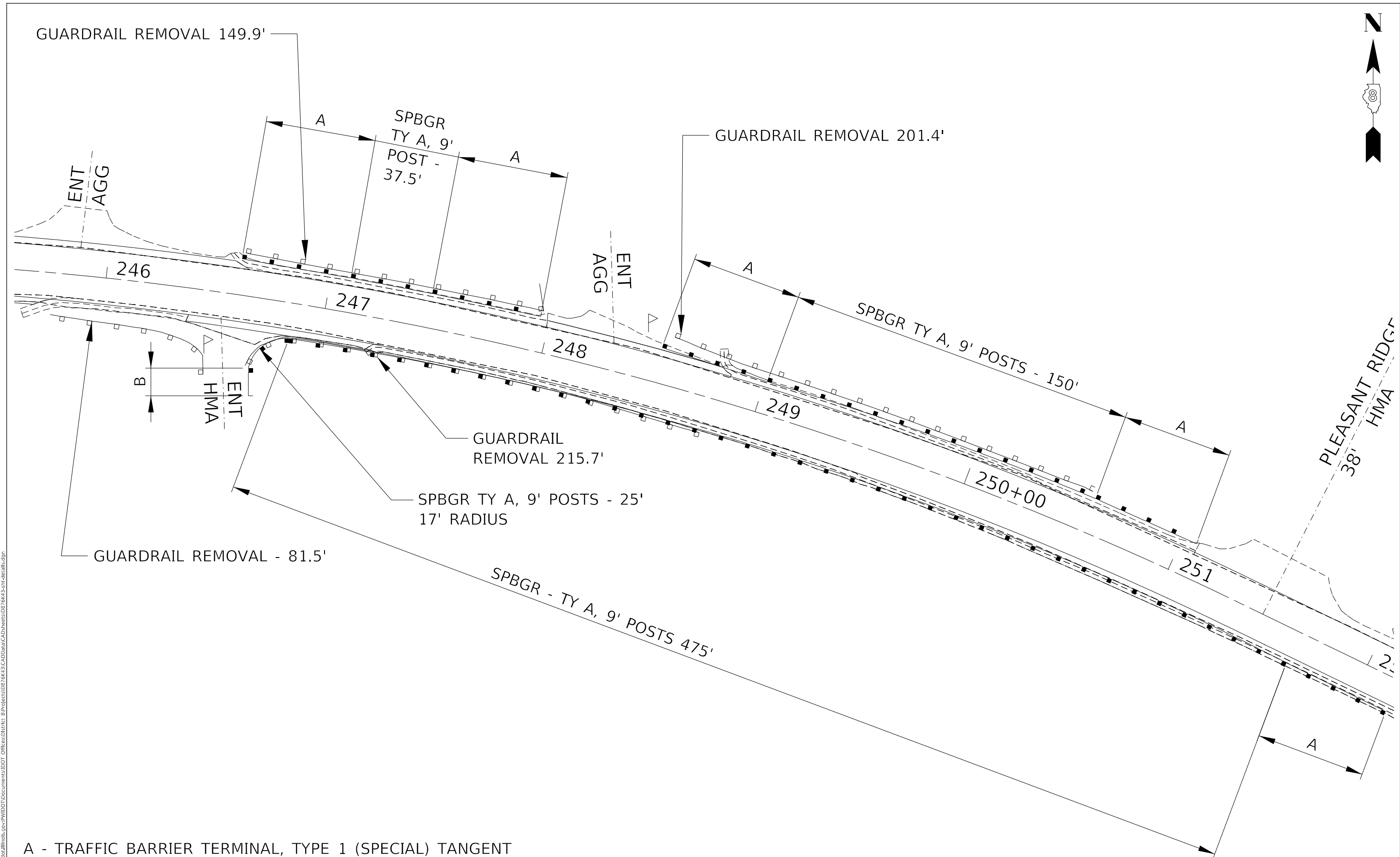
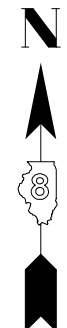


| | | |
|-------------------------------|------------|-----------|
| USER NAME = challeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | | |
|---|---------|-------------|------|---------|
| ADA RAMP IMPROVEMENTS PLAN SHEET | | | | |
| SCALE: 1" = 10' | SHEET 1 | OF 1 SHEETS | STA. | TO STA. |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|-----------------|---------|-----------------|--------------|
| 586 A | (51.59,31) RS-4 | MADISON | 31 | 24 |
| CONTRACT NO. 76K43 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



A - TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 B - TRAFFIC BARRIER TERMINAL, TYPE 2

MODEL: Default
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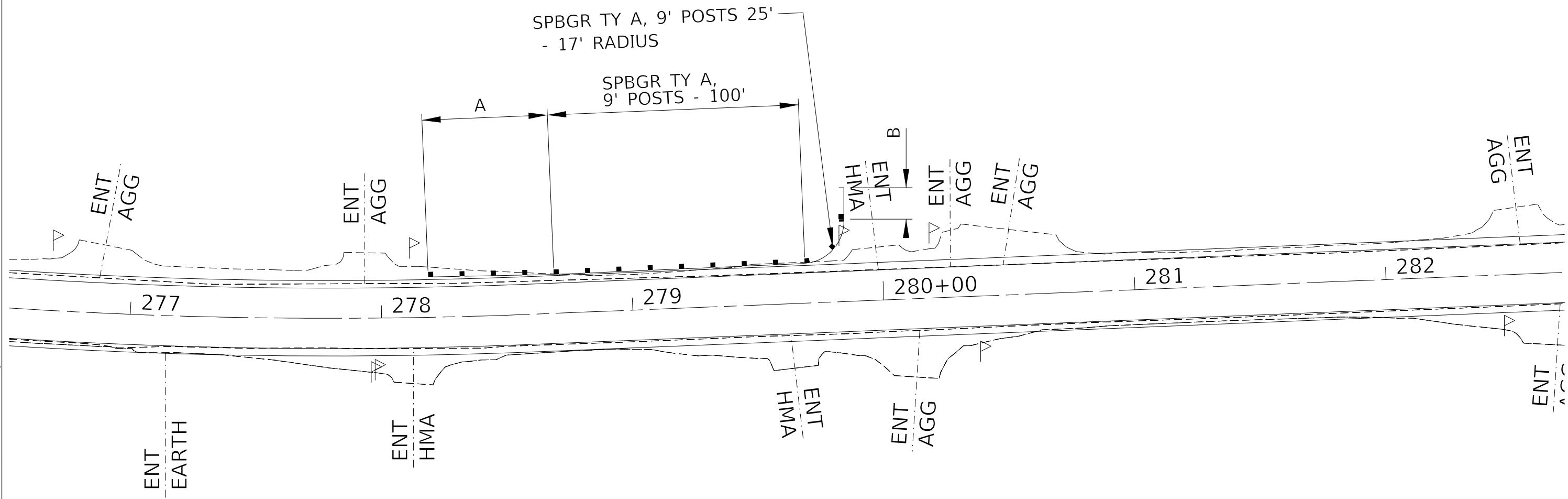
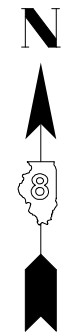
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|------------------------------|------------|-----------|
| USER NAME = challandeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 40.0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GUARDRAIL DETAILS

SCALE: 40 SCALE SHEET 1 OF 4 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|---------|--------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 25 |
| CONTRACT NO. 76K43 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



A - TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 B - TRAFFIC BARRIER TERMINAL, TYPE 2

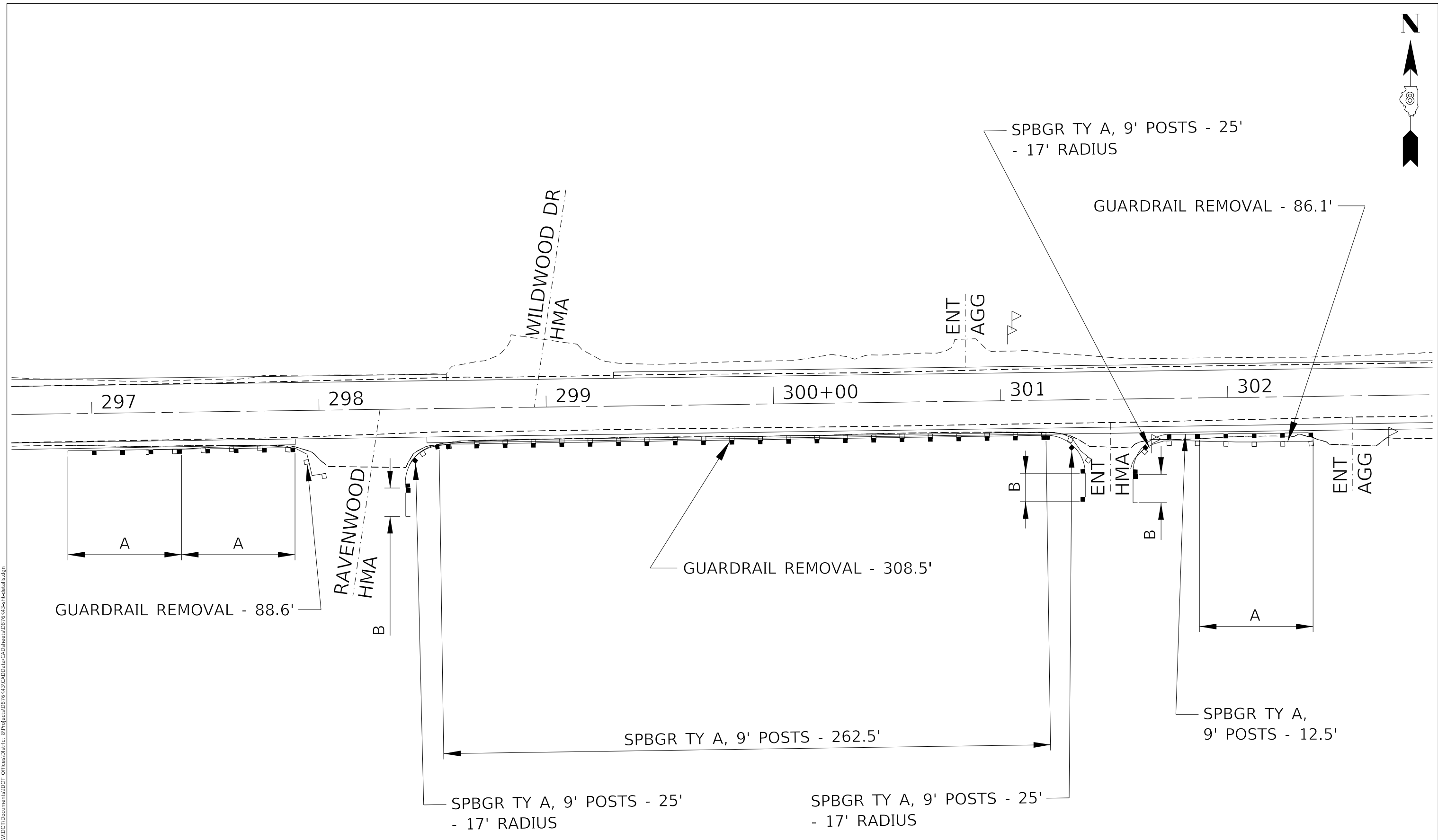
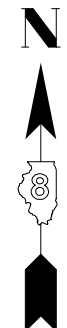
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 PROJECT: 586A
 SHEET: 26
 DATE: 10/2/2019

| | | |
|------------------------------|------------|-----------|
| USER NAME = challeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 40.0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GUARDRAIL DETAILS
 SCALE: 40 SCALE SHEET 2 OF 4 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|----------------|---------|--------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 26 |
| CONTRACT NO. 76K43 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



A - TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 B - TRAFFIC BARRIER TERMINAL, TYPE 2

MODEL: Default
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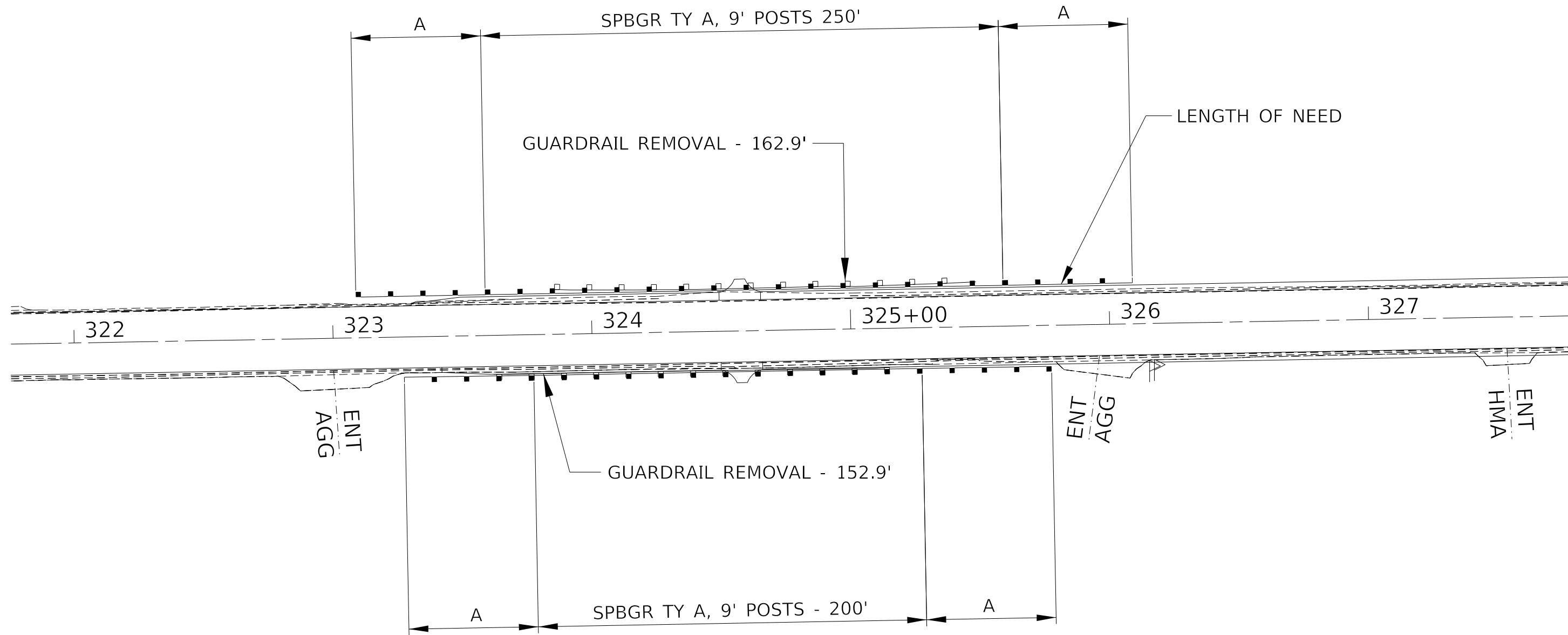
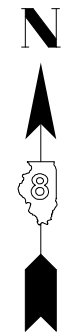
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| | DRAWN - | REVISED - |
| PLOT SCALE = 40.0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GUARDRAIL DETAILS

SCALE: 40 SCALE SHEET 3 OF 4 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|---------|---------------------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 27 |
| CONTRACT NO. 76K43 | | | ILLINOIS FED. AID PROJECT | |



A - TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 B - TRAFFIC BARRIER TERMINAL, TYPE 2

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 DATE: 10/2/2019

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| USER NAME = challandeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 40.0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

GUARDRAIL DETAILS

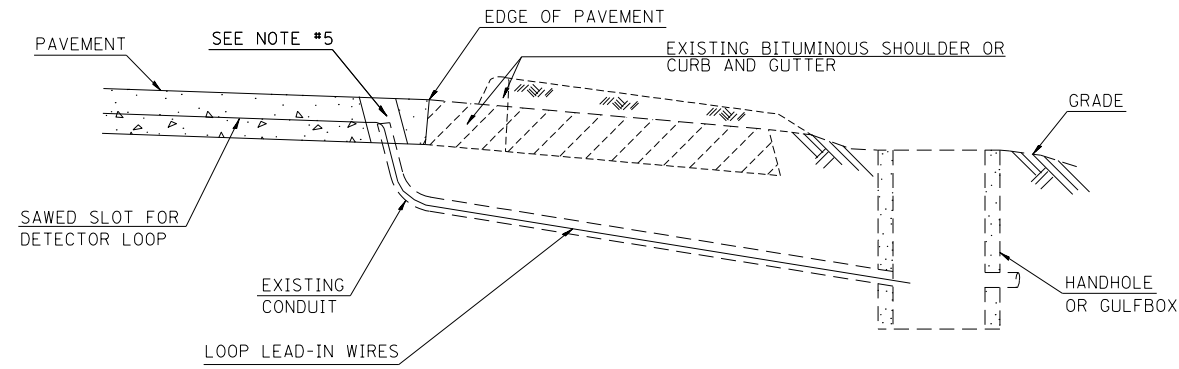
SCALE: 40 SCALE SHEET 4 OF 4 SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|---------|---------------------------|-----------|
| 586A | (51,59,31)RS-4 | MADISON | 31 | 28 |
| CONTRACT NO. 76K43 | | | ILLINOIS FED. AID PROJECT | |

NOTES:

SEE TABLE "DETECTOR LOOP REQUIREMENTS AND CALCULATIONS"
 FOR LOOP SIZE AND CALCULATED NUMBER OF TURNS.
 SEE "DETAIL A" FOR INSTALLING DETECTOR LOOP WIRES
 IN EXISTING CONDUITS.

| SCHEDULE OF QUANTITIES | | | TOT. QTY. | IL 162 & IL 159 |
|------------------------|--|------|-----------|-----------------------|
| CODE NO. | ITEM | UNIT | | |
| 80300100 | LOCATING UNDERGROUND CABLE | FOOT | 40 | 40 |
| 81028340 | UNDERGROUND CONDUIT, PVC, 1 1/2" DIA. | FOOT | 14 | 14 |
| 87602000 | PEDESTRIAN PUSH-BUTTON POST | EACH | 3 | 3 |
| 87900200 | DRILL EXISTING HANDHOLE | EACH | 3 | 3 |
| 88800100 | PEDESTRIAN PUSH-BUTTON | EACH | 6 | 6 |
| 88600600 | DETECTOR LOOP REPLACEMENT | FOOT | 810 | 810 |
| 89502375 | REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT | EACH | 1 | 1 |
| 89502350 | REMOVE AND REINSTALL ELECTRIC CABLE FROM CONDUIT | FOOT | 203 | 203 |



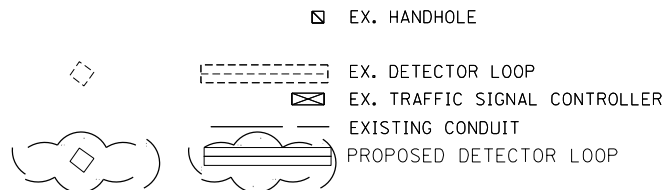
DETAIL A
(NO SCALE)

INSTALLING DETECTOR LOOP WIRES IN EXISTING CONDUIT

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

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

DETECTOR LOOP REPLACEMENT LEGEND



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| USER NAME = challandeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT
 GENERAL NOTES, SCHEDULE OF QUANTITIES,
 DETAIL AND LEGEND**

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|----------------|---------|--------------|-----------|
| F.A.J. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 586 A | (51,59,31)RS-4 | MADISON | 31 | 29 |
| CONTRACT NO. 76K43 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

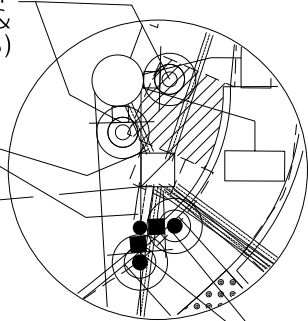
REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (2-PEDESTRIAN PUSH-BUTTON & 2-PEDESTRIAN PUSH-BUTTON SIGNS)

2-REM & RE ELCBL FR CON-41'(EACH)

DRILL EX HANDHOLE-1 EACH' UNDRGRD C PVC 1 1/2-3'

PED PUSH-BUTTON-2 EACH
PED PUSHBUTTON POST-1 EACH

"NW" DETAIL



SEE "NW" DETAIL

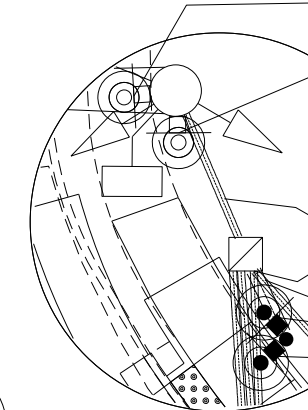
"NE" DETAIL

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (2-PEDESTRIAN PUSH-BUTTON & 2-PEDESTRIAN PUSH-BUTTON SIGNS)

DRILL EX HANDHOLE-1 EACH' UNDRGRD C PVC 1 1/2-5'

2-REM & RE ELCBL FR CON-34'(EACH)

PED PUSH-BUTTON-2 EACH
PED PUSHBUTTON POST-1 EACH



SEE "NW" DETAIL

SEE "SE" DETAIL

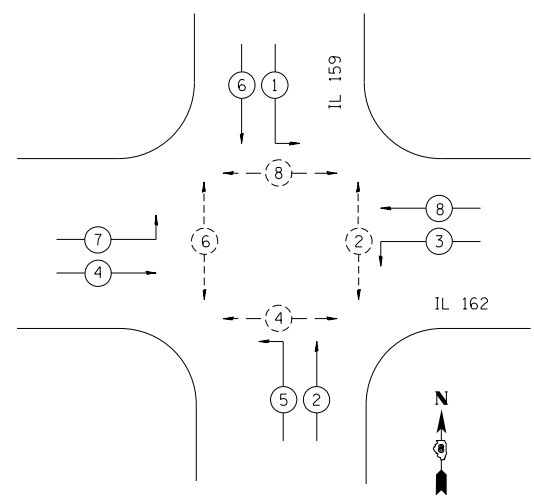
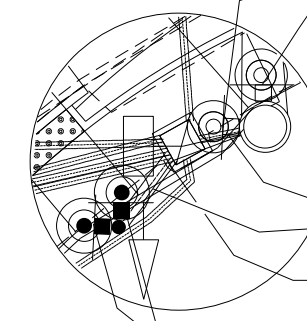
"SE" DETAIL

REMOVE EXISTING TRAFFIC SIGNAL EQUIPMENT (2-PEDESTRIAN PUSH-BUTTON & 2-PEDESTRIAN PUSH-BUTTON SIGNS)

2-REM & RE ELCBL FR CON-28'(EACH)

DRILL EX HANDHOLE-1 EACH' UNDRGRD C PVC 1 1/2-6'

PED PUSH-BUTTON-2 EACH
PED PUSHBUTTON POST-1 EACH



PHASE DESIGNATION DIAGRAM

FULL-ACTUATED CONTROLLER IN TYPE IV CABINET

EXISTING SEQUENCE OF OPERATION

| PHASE | 1 | 2 | 3 | 4 | 5 | 6 | 7 | 8 |
|-------------------------------|--------|--------|--------|--------|--------|--------|--------|--------|
| MOVEMENT | SBLT | NB | WBLT | EB | NBLT | SB | EBLT | WB |
| CONCURRENT MOVEMENT PERMITTED | 5 OR 6 | 5 OR 6 | 7 OR 8 | 7 OR 8 | 1 OR 2 | 1 OR 2 | 3 OR 4 | 3 OR 4 |

• PEDESTRIAN SIGNALS BY PUSHBUTTON ACTIVATION, ONLY

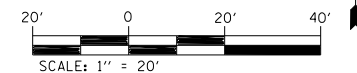
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|------------------------------|------------|-----------|
| USER NAME = challandeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 40,0000 ' / in. | CHECKED - | REVISED - |
| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

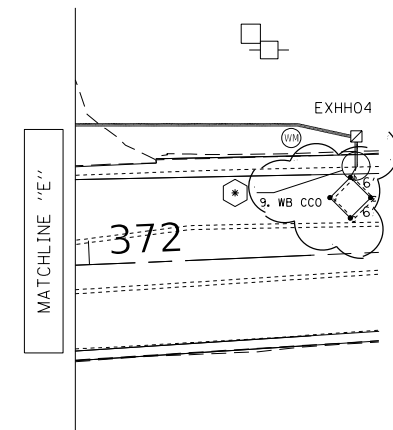
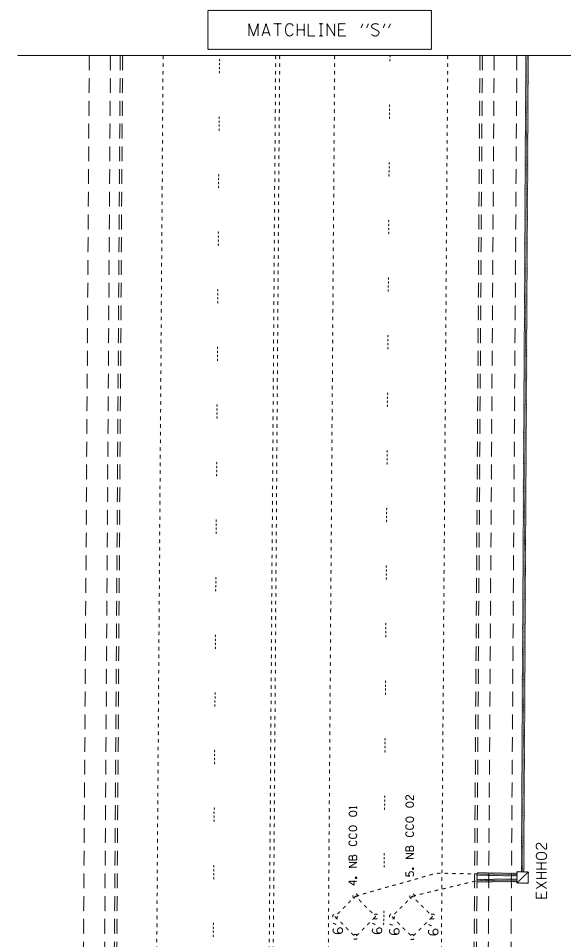
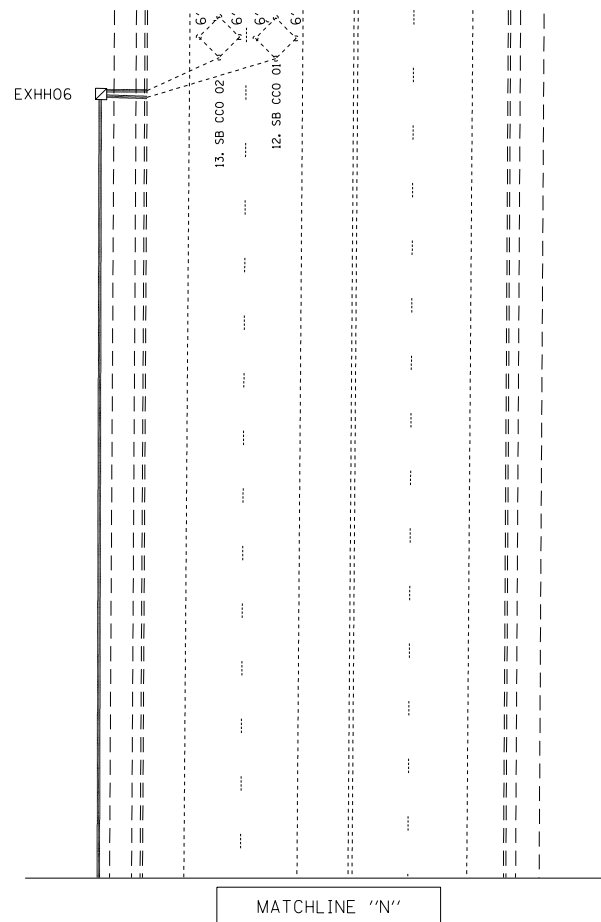
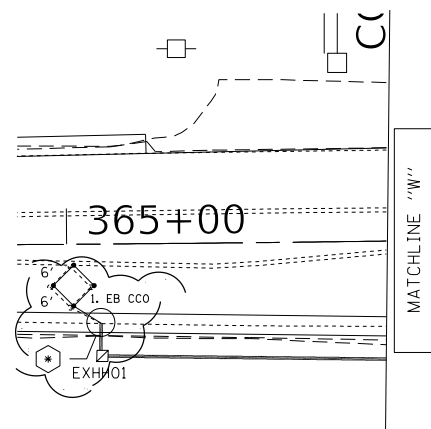
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL 162 & IL 159
DETECTOR LOOP REPLACEMENT PLAN
1 OF 2

SCALE: SHEET OF SHEETS STA. TO STA.



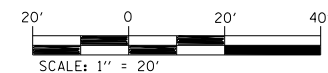
| F.A.J. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|----------------|---------|---------------------------|-----------|
| 586 A | (51,59,31)RS-4 | MADISON | 31 | 30 |
| CONTRACT NO. 76K43 | | | ILLINOIS FED. AID PROJECT | |



| DETECTOR LOOP 161 REQUIREMENTS AND CALCULATIONS FOR IL 003 & NIEDERINGHAUS | | | | | |
|--|---------|-----------------------|---------------------|---|--------------------------------|
| LOOP# | PHASE # | LOOP SIZE (FT. X FT.) | REQUIRED # OF TURNS | CALCULATED INDUCTANCE MICROHENRIES (μH) | CALCULATED RESISTANCE OHMS (Ω) |
| 1. EB CCO | 4 | 6' x 6' | 6 | 331.66 | 2.11 |
| 2. EB LT CD | 7 | 6' x 50'(0) | 3-6-3 | 802.72 | 1.97 |
| 3. EB THRU CD | 4 | 6' x 50'(0) | 3-6-3 | 797.44 | 1.85 |
| 4. NB CCO 1 | 2 | 6' x 6' | 6 | 368.40 | 2.94 |
| 5. NB CCO 2 | 2 | 6' x 6' | 6 | 365.76 | 2.88 |
| 6. NB LT CD | 5 | 6' x 50'(0) | 3-6-3 | 831.98 | 2.64 |
| 7. NB THRU 1 CD | 2 | 6' x 50'(0) | 3-6-3 | 828.46 | 2.56 |
| 8. NB THRU 2 CD | 2 | 6' x 50'(0) | 3-6-3 | 826.04 | 2.50 |
| 9. WB CCO | 8 | 6' x 6' | 6 | 379.62 | 3.20 |
| 10. WB LT CD | 3 | 6' x 50'(0) | 3-6-3 | 852.88 | 3.11 |
| 11. WB THRU CD | 8 | 6' x 50'(0) | 3-6-3 | 848.70 | 3.02 |
| 12. SB CCO 1 | 6 | 6' x 6' | 6 | 361.36 | 2.78 |
| 13. SB CCO 2 | 6 | 6' x 6' | 6 | 358.72 | 2.72 |
| 14. SB LT CD | 1 | 6' x 50'(0) | 3-6-3 | 826.92 | 2.52 |
| 15. SB THRU 1 CD | 6 | 6' x 50'(0) | 3-6-3 | 822.08 | 2.41 |
| 16. SB THRU 2 CD | 6 | 6' x 50'(0) | 3-6-3 | 819.22 | 2.35 |

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

⬠ = SEE DETAIL "A"



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| | | |
|------------------------------|------------|-----------|
| USER NAME = challesdeske | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
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| PLOT DATE = 10/2/2019 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL 162 & IL 159
DETECTOR LOOP REPLACEMENT PLAN
2 OF 2**

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|---------------------------|----------------|---------|--------------|-----------|
| F.A.J. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 586 A | (51,59,31)RS-4 | MADISON | 31 | 31 |
| CONTRACT NO. 76K43 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |