

01-19-2024 LETTING ITEM 136

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PROJECT IS LOCATED IN THE CITY OF CHICAGO

TRAFFIC DATA:

31ST STREET  
S.N. 016-1159 2022 ADT = 9,100

DESIGN CLASSIFICATION = MINOR ARTERIAL

DESIGN SPEED = 35 MPH (ASSUMED)

POSTED SPEED = 30 MPH

I-90/94 (DAN RYAN EXPRESSWAY)  
S.N. 016-1159 2022 ADT = 277,300

DESIGN CLASSIFICATION = INTERSTATE

DESIGN SPEED = 60 MPH (ASSUMED)

POSTED SPEED = 55 MPH

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

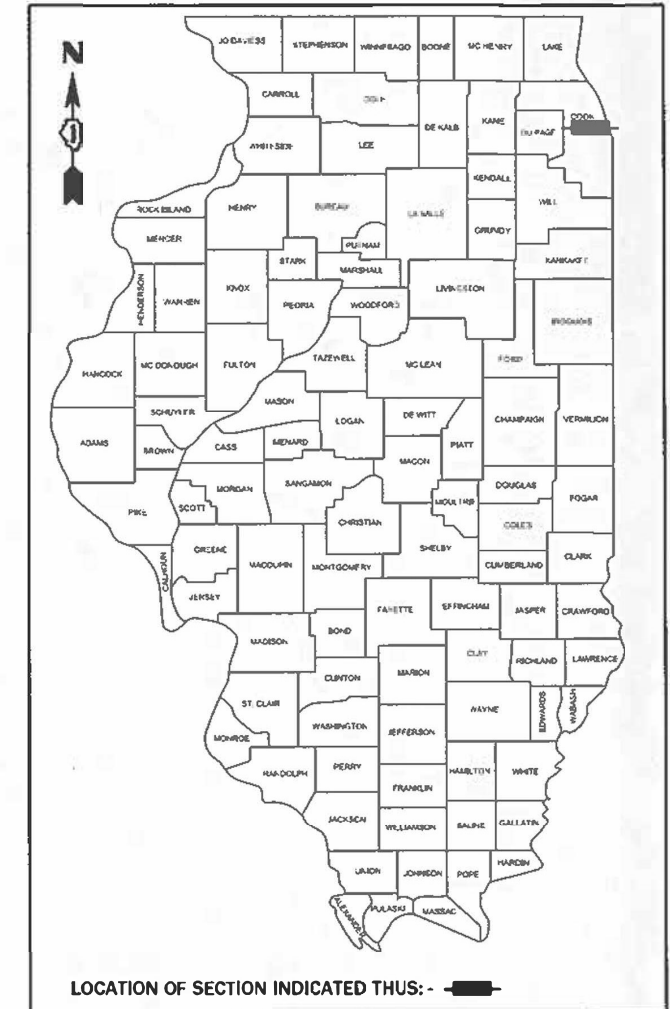
PROPOSED  
HIGHWAY PLANS

F.A.U. 1465 (31ST STREET) OVER  
F.A.I ROUTE 90/94 (DAN RYAN EXPRESSWAY)  
SECTION FAU 1465 22 BJ  
PROJECT NO. HBFP-7MHW(001)  
BRIDGE DECK OVERLAY AND JOINT REPAIR  
COOK COUNTY

C-91-351-22

|                            |                |        |                    |           |
|----------------------------|----------------|--------|--------------------|-----------|
| F.A.U. R.T.E.              | SECTION        | COUNTY | TOTAL SHEETS       | SHEET NO. |
| 1465                       | FAU 1465 22 BJ | COOK   | 50                 | 1         |
| ILLINOIS                   |                |        | CONTRACT NO. 62T44 |           |
| * 50 + 1 = 51 TOTAL SHEETS |                |        |                    |           |

D-91-297-22



LOCATION OF SECTION INDICATED THUS: -

**E** LIN ENGINEERING, LTD.  
Consulting Engineers  
Westmont, Illinois

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 17, 2023  
Jose Rios Torres REGIONAL ENGINEER  
December 8, 2023  
Scott A. Elk  
ENGINEER OF DESIGN AND ENVIRONMENT  
December 8, 2023  
Steph M. Smith  
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY  
OF THE STATE OF ILLINOIS



31ST STREET  
S.N. 016-1159

LOCATION MAP

NOT TO SCALE

GROSS LENGTH = 860 FT. = 0.16 MILES  
NET LENGTH = 630 FT. = 0.11 MILES



Shiraz Tarique 10/18/2023  
Date  
Shiraz Tarique  
Illinois Registered Engineer No. 062-064219  
Registration Expires Nov. 30, 2023



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: PRAVEEN KAINI, PE. (847-705-4237)  
PROJECT MANAGER: J. ALAIN MIDY, PE. (847-221-3056)

CONTRACT NO. 62T44

## INDEX OF SHEETS

|         |  |
|---------|--|
| 1       | COVER SHEET                              |
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| 8       | TYPICAL SECTIONS                         |
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| 19 - 37 | STRUCTURAL PLANS                         |
| 38 - 50 | DISTRICT ONE STANDARDS                   |

## HIGHWAY STANDARDS

|           |   |
|-----------|---|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS                                    |
| 001006    | DECIMAL OF AN INCH AND OF A FOOT  |
| 701101-05 | OFF-RD OPERATIONS, MULTILANE, 15' (4.5M) TO 24" (600MM) FROM PAVEMENT EDGE      |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS                                     |
| 701311-03 | LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY                                |
| 701400-11 | APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY                                    |
| 701401-13 | LANE CLOSURE, FREEWAY/EXPRESSWAY  |
| 701411-09 | LANE CLOSURE, MULTILANE, AT ENTRANCE OR EXIT RAMP, FOR SPEEDS $\geq$ 45 MPH     |
| 701427-05 | LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS $\leq$ 40 MPH |
| 701428-01 | TRAFFIC CONTROL SET UP AND REMOVAL FREEWAY/EXPRESSWAY                           |
| 701446-01 | TWO LANE CLOSURE, FREEWAY/EXPRESSWAY  |
| 701501-06 | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED   |
| 701502-09 | URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE                   |
| 701601-09 | URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN              |
| 701701-10 | URBAN LANE CLOSURE, MULTILANE INTERSECTION                                      |
| 701801-06 | SIDEWALK, CORNER OR CROSSWALK CLOSURE   |
| 701901-08 | TRAFFIC CONTROL DEVICES   |
| 704001-08 | TEMPORARY CONCRETE BARRIER  |
| 782006-01 | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS                           |

## DISTRICT STANDARDS

|       |   |
|-------|---|
| BD-08 | FRAMES AND LIDS ADJUSTMENT WITH MILLING   |
| TC-08 | ENTRANCE AND EXIT RAMP CLOSURE DETAILS  |
| TC-09 | TRAFFIC CONTROL DETAILS FOR FREEWAY SINGLE & MULTILANE WEAVE                    |
| TC-10 | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS     |
| TC-12 | MULTILANE FREEWAY PAVEMENT MARKING DETAILS                                      |
| TC-17 | TRAFFIC CONTROL DETAILS FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES |
| TC-21 | DETOUR SIGNING FOR CLOSING STATE HIGHWAYS                                       |
| TC-22 | ARTERIAL ROAD INFORMATION SIGN  |
| TC-24 | CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS                                       |
| TC-26 | DRIVEWAY ENTRANCE SIGNING   |

## GENERAL NOTES

THE THICKNESS OF HMA SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA IS PLACED.

ANY REFERENCE TO A STANDARD IN THESE PLANS SHALL BE INTERPRETED TO MEAN THE EDITION AS INDICATED BY THE SUBNUMBER SHOWN IN THE LIST OF STANDARDS OR THE COPY INCLUDED IN THESE PLANS.

THE CONTRACTOR SHALL CALL "J.U.L.I.E" AT (800) 892-0123 OR 811 AT LEAST 48 HOURS PRIOR TO EXCAVATION TO DETERMINE WHICH BURIED ELECTRIC, TELEPHONE, AND GAS UTILITIES ARE IN THE AREA. 48 HOUR NOTIFICATION IS REQUIRED.

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES THAT CONFLICT WITH TEMPORARY MARKINGS, IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR PROPOSED STRIPING AT THE COMPLETION OF THIS CONTRACT. EXACT LOCATIONS OF ALL PROPOSED PAVEMENT MARKINGS SHALL BE DIRECTED BY THE RESIDENT ENGINEER.

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

IT SHALL BE THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.

ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH AFFECTED UTILITY COMPANIES AND THE CITY OF CHICAGO.

THE CONTRACTOR SHALL MAINTAIN ALL ROADWAYS OPEN TO TRAFFIC AS SHOWN ON THE MAINTENANCE OF TRAFFIC PLANS.

THE CONTRACTOR SHALL USE CARE NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER AT THE CONTRACTOR'S OWN EXPENSE.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT THE NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKDAY. AT THE CONCLUSION OF CONSTRUCTION OPERATIONS, ALL UTILITY STRUCTURES SHALL BE FREE FROM DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAID SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF THE CONTRACT.

PERMANENT PAVEMENT MARKINGS SHALL BE AS SPECIFIED IN THE PLANS AND SHALL BE PLACED IN ACCORDANCE WITH THE "CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS" DETAILS. (TC-24, CITY OF CHICAGO TYPICAL PAVEMENT MARKINGS).

TWO WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS, THE ENGINEER SHALL CONTACT EMAD ALHUSSEINI, THE AREA TRAFFIC FIELD ENGINEER, AT EMAD.ALHUSSEINI@ILLINOIS.GOV .

THE CONTRACTOR SHALL CONTRACT KALPANA KANNAN-HOSADURGA, THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV, AND CARLOS MUNOZ, THE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR, AT CARLOS.MUNOZ@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING ANY WORK.

ANY DAMAGE TO EXISTING TRAFFIC SIGNAL EQUIPMENT WILL HAVE TO BE RESTORED TO ORIGINAL CONDITIONS AND TO THE SATISFACTION OF THE ENGINEER AT NO COST TO THE DEPARTMENT.

ALL STAGE CHANGES REQUIRING THE STOPPING AND/OR THE PACING OF TRAFFIC SHALL TAKE PLACE DURING THE ALLOWABLE HOURS FOR FULL EXPRESSWAY CLOSURES AND SHALL BE APPROVED BY THE DEPARTMENT. THE CONTRACTOR SHALL NOTIFY THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT LEAST 3 WORKING DAYS (WEEKENDS AND HOLIDAYS DO NOT COUNT INTO THIS 72 HOURS NOTIFICATION) IN ADVANCE OF ANY PROPOSED STAGE CHANGE.

A MAINTENANCE OF TRAFFIC PLAN SHALL BE SUBMITTED TO THE DISTRICT ONE EXPRESSWAY TRAFFIC CONTROL SUPERVISOR 14 DAYS IN ADVANCE OF ANY STAGE CHANGES OR FULL EXPRESSWAY CLOSURES. THE MAINTENANCE OF TRAFFIC PLAN SHALL INCLUDE, BUT NOT BE LIMITED TO: LANE AND RAMP CLOSURES, EXISTING GEOMETRICS, AND EQUIPMENT AND MATERIAL LOCATION.

THE CONTRACTOR NEEDS TO SUBMIT COMPLETE CONSTRUCTION PROCESS (CPP'S) TO CTA FOR REVIEW AND COMMENTS PRIOR TO THE COMMENCEMENT OF ANY WORK.

## COMMITMENTS

NONE.

| HOT- MIX ASPHALT MIXTURE REQUIREMENTS   |                  |                                  |
|---|------------------|----------------------------------|
| MIXTURE TYPE  | AIR Voids @ NDES | QUALITY MANAGEMENT PROGRAM (QMP) |
| BUTT JOINT & 31ST ST RESURFACING  |                  |                                  |
| HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70  | 4% @ 70 GYR.     | QC/QA                            |
| QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP) |                  |                                  |

## MIXTURE TABLE NOTES

- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/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 RECLAIMED MATERIALS SPECIFICATION.

FACTORS FOR ESTIMATING PLAN QUANTITIES ARE AS FOLLOWS AND SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES:

|                             |              |
|-----------------------------|--------------|
| SHORT TERM PAVEMENT MARKING | 10 FT/100 FT |
|-----------------------------|--------------|

 REVISED SHEET 12/28/2023

|  |                            |                |   |   |  |                    |                          |               |                           |               |  |  |
|--|----------------------------|----------------|---|---|--|--------------------|--------------------------|---------------|---------------------------|---------------|--|--|
|  <b>LIN ENGINEERING, LTD.</b><br>Consulting Engineers<br>Westmont, Illinois | USER NAME = 14nho          | DESIGNED - NH  | REVISED  12/22/2023 NH | <b>STATE OF ILLINOIS</b><br><b>DEPARTMENT OF TRANSPORTATION</b> | <b>31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)</b><br><b>INDEX, HIGHWAY STANDARDS &amp; GENERAL NOTES</b> | F.A.U. RTE. = 1465 | SECTION = FAU 1465 22 BJ | COUNTY = COOK | TOTAL SHEETS = 50         | SHEET NO. = 2 |  |  |
|  | PLOT SCALE = 2,0000' / in. | CHECKED - ST   | REVISED -   |   |  | SCALE: N.T.S.      | SHEET 1 OF 1 SHEETS      | STA. TO STA.  | ILLINOIS FED. AID PROJECT |               |  |  |
|  | PLOT DATE = 12/27/2023     | DATE - 10/2023 | REVISED -   |   |  |                    |                          |               |                           |               |  |  |
|  |                            |                |   |   |  |                    |                          |               |                           |               |  |  |

| CODE NO.   | ITEM   | UNIT  | TOTAL QUANTITY | CONSTRUCTION CODE |   |
|------------|--|-------|----------------|-------------------|---|
|            |  |       |                | 80% FED/20% STATE |   |
|            |  |       |                | SN 016-1159       |   |
|            |  |       |                | 0059              |   |
|            |  |       |                | BRIDGE            |   |
| * 28000510 | INLET FILTERS  | EACH  | 11             | 11                |   |
| 40600290   | BITUMINOUS MATERIALS (TACK COAT)                     | POUND | 798            | 798               |   |
| 40600982   | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT         | SQ YD | 937            | 937               |   |
| 40604062   | HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N70 | TON   | 256            | 256               |   |
| 42400800   | DETECTABLE WARNING                                   | SQ FT | 32             | 32                | ⚠ |
| 50102400   | CONCRETE REMOVAL                                     | CU YD | 27.5           | 27.5              |   |
| 50104650   | SLOPE WALL REMOVAL                                   | SQ YD | 272            | 272               |   |
| 50157300   | PROTECTIVE SHIELD                                    | SQ YD | 2,934          | 2,934             |   |
| 50300255   | CONCRETE SUPERSTRUCTURE                              | CU YD | 28.5           | 28.5              | ⚠ |
| 50300300   | PROTECTIVE COAT                                      | SQ YD | 2,907          | 2,907             |   |
| 50800205   | REINFORCEMENT BARS, EPOXY COATED                     | POUND | 920            | 920               | ⚠ |
| 50800515   | BAR SPLICERS   | EACH  | 8              | 8                 |   |
| 51100100   | SLOPE WALL 4 INCH                                    | SQ YD | 272            | 272               |   |
| 52000110   | PREFORMED JOINT STRIP SEAL                           | FOOT  | 167            | 167               |   |
| 58700300   | CONCRETE SEALER                                      | SQ FT | 11,639         | 11,639            |   |

\* SPECIALTY ITEM

⚠ REVISED SHEET 12/28/2023



|                            |                |           |
|----------------------------|----------------|-----------|
| USER NAME = 14nho          | DESIGNED - NH  | REVISED - |
|                            | DRAWN - NH     | REVISED - |
| PLOT SCALE = 2.0000' / in. | CHECKED - ST   | REVISED - |
| PLOT DATE = 10/13/2023     | DATE - 10/2023 | REVISED - |

STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION

31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)  
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET 1 OF 5 SHEETS STA. TO STA.

|                           |                |        |                    |           |
|---------------------------|----------------|--------|--------------------|-----------|
| F.A.U. RTE.               | SECTION        | COUNTY | TOTAL SHEETS       | SHEET NO. |
| 1465                      | FAU 1465 22 BJ | COOK   | 50                 | 3         |
| ILLINOIS FED. AID PROJECT |                |        | CONTRACT NO. 62T44 |           |

| CODE NO. | ITEM  | UNIT   | TOTAL QUANTITY | CONSTRUCTION CODE |
|----------|---|--------|----------------|-------------------|
|          |   |        |                | 80% FED/20% STATE |
|          |   |        |                | SN 016-1159       |
|          |   |        |                | 0059              |
|          |   |        |                | BRIDGE            |
| 59300100 | CONTROLLED LOW-STRENGTH MATERIAL                              | CU YD  | 90.7           | 90.7              |
| 60250200 | CATCH BASINS TO BE ADJUSTED                                   | EACH   | 10             | 10                |
| 60255500 | MANHOLES TO BE ADJUSTED                                       | EACH   | 14             | 14                |
| 60260100 | INLETS TO BE ADJUSTED   | EACH   | 1              | 1                 |
| 66400105 | CHAINLINK FENCE, 4'   | FOOT   | 18             | 18                |
| 67100100 | MOBILIZATION  | L SUM  | 1              | 1                 |
| 70107025 | CHANGEABLE MESSAGE SIGN                                       | CAL DA | 184            | 184               |
| 70300100 | SHORT TERM PAVEMENT MARKING                                   | FOOT   | 1,277          | 1,277             |
| 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL                           | SQ FT  | 8,155          | 8,155             |
| 70307100 | TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - TYPE IV TAPE | SQ FT  | 901            | 901               |
| 70307120 | TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE IV TAPE           | FOOT   | 6,494          | 6,494             |
| 70307130 | TEMPORARY PAVEMENT MARKING - LINE 6" - TYPE IV TAPE           | FOOT   | 300            | 300               |
| 70307140 | TEMPORARY PAVEMENT MARKING - LINE 8" - TYPE IV TAPE           | FOOT   | 4,160          | 4,160             |
| 70307160 | TEMPORARY PAVEMENT MARKING - LINE 12" - TYPE IV TAPE          | FOOT   | 981            | 981               |



\* SPECIALTY ITEM



|                            |                |           |
|----------------------------|----------------|-----------|
| USER NAME = 14nho          | DESIGNED - NH  | REVISED - |
|                            | DRAWN - NH     | REVISED - |
| PLOT SCALE = 2.0000' / in. | CHECKED - ST   | REVISED - |
| PLOT DATE = 10/13/2023     | DATE - 10/2023 | REVISED - |

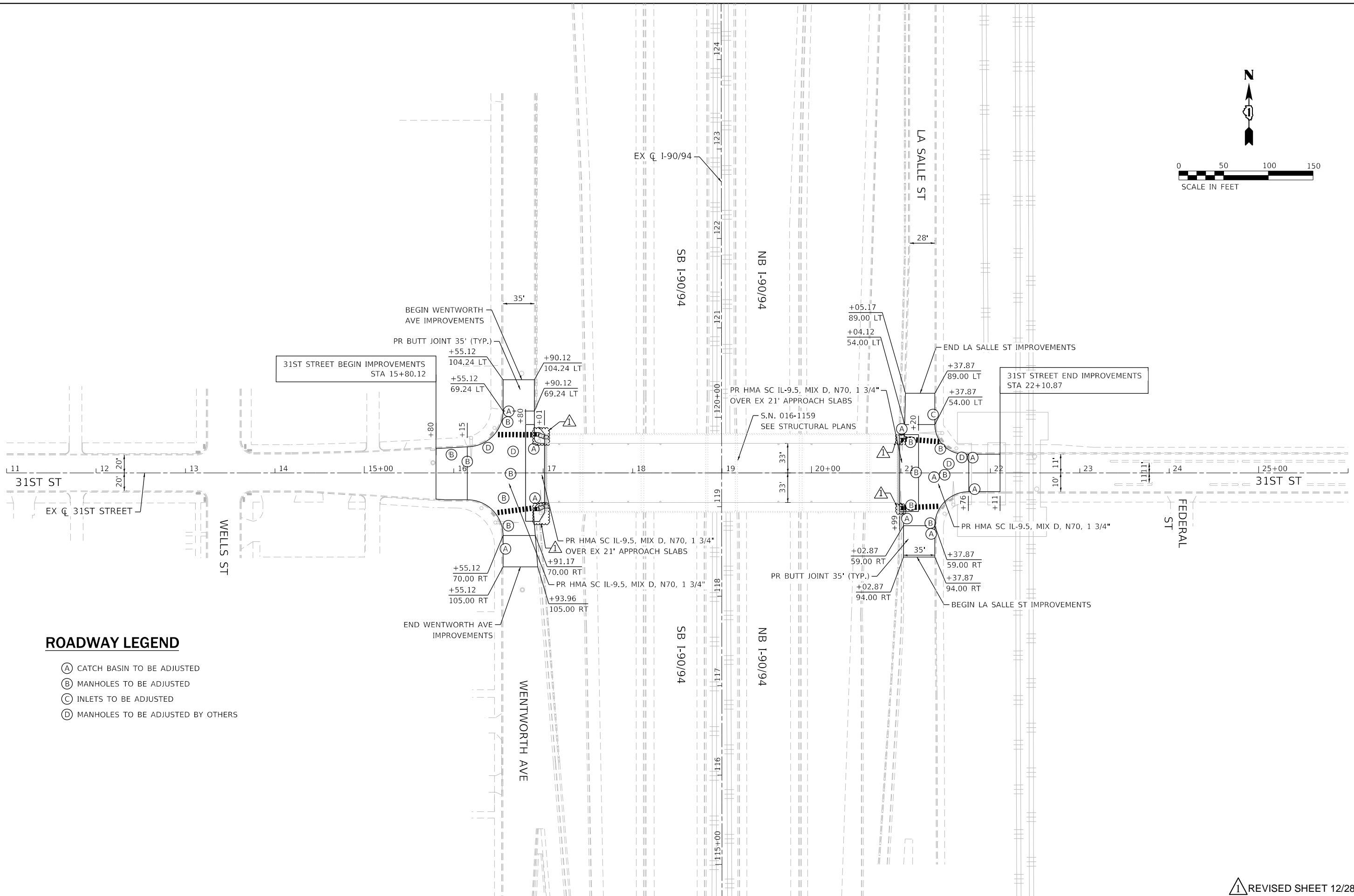
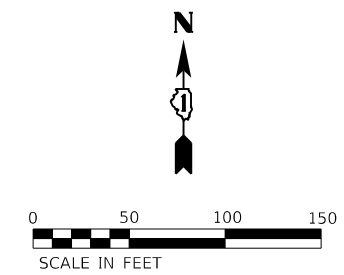
**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)  
SUMMARY OF QUANTITIES**

SCALE: N.T.S. SHEET 2 OF 5 SHEETS STA. TO STA.

|                           |                        |             |                    |             |
|---------------------------|------------------------|-------------|--------------------|-------------|
| FAU RTE. 1465             | SECTION FAU 1465 22 BJ | COUNTY COOK | TOTAL SHEETS 50    | SHEET NO. 4 |
|                           |                        |             | CONTRACT NO. 62T44 |             |
| ILLINOIS FED. AID PROJECT |                        |             |                    |             |

REVISD SHEET 12/28/2023



- ROADWAY LEGEND**
- (A) CATCH BASIN TO BE ADJUSTED
  - (B) MANHOLES TO BE ADJUSTED
  - (C) INLETS TO BE ADJUSTED
  - (D) MANHOLES TO BE ADJUSTED BY OTHERS

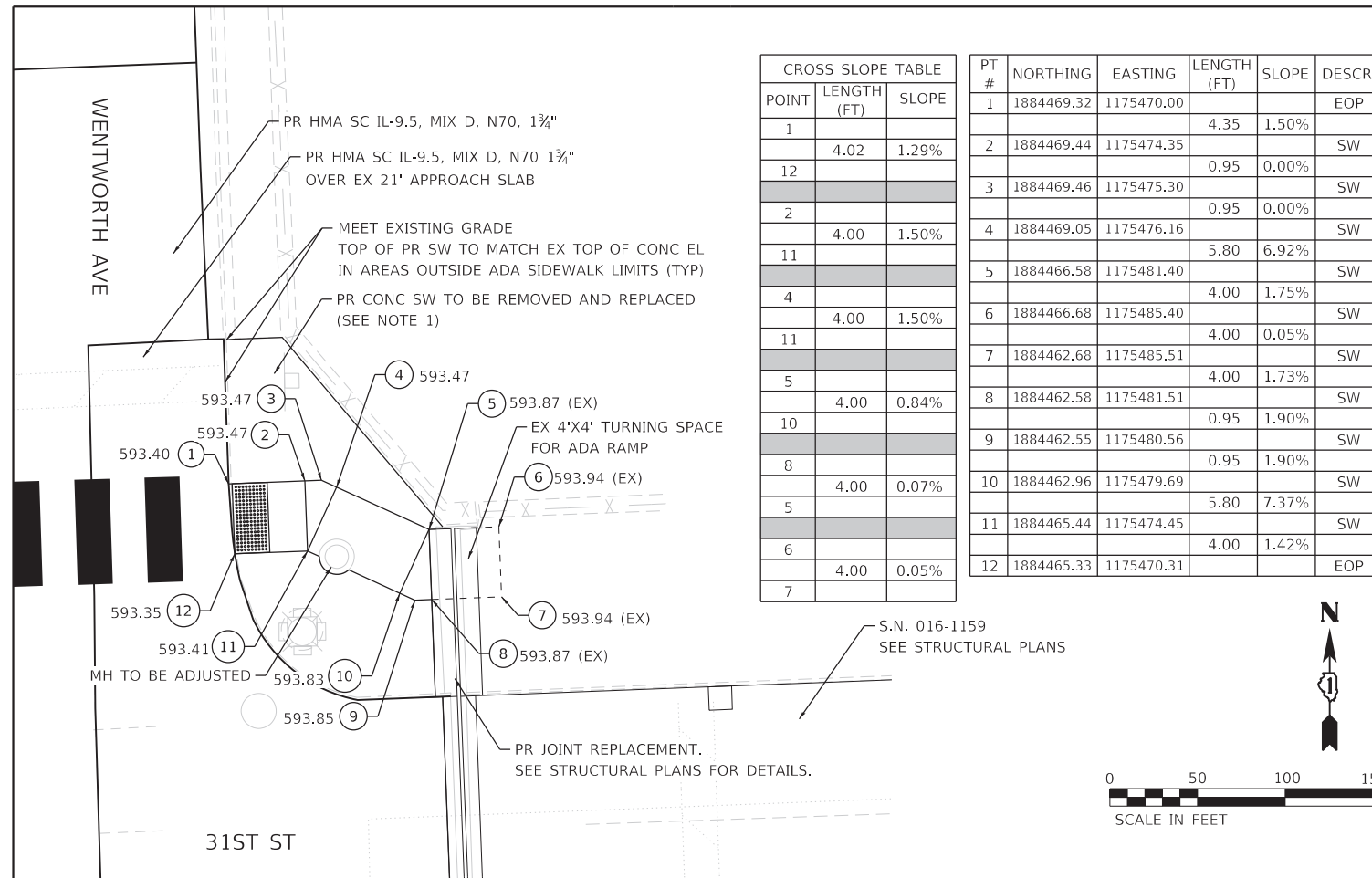
|  |                              |                |                          |
|--|------------------------------|----------------|--------------------------|
| <b>LIN ENGINEERING, LTD.</b><br>Consulting Engineers<br>Westmont, Illinois | USER NAME = 14nho            | DESIGNED - NH  | REVISED  - 12/22/2023 NH |
|  |                              | DRAWN - NH     | REVISED -                |
|  | PLOT SCALE = 100,0001' / in. | CHECKED - ST   | REVISED -                |
|  | PLOT DATE = 12/27/2023       | DATE - 10/2023 | REVISED -                |

**STATE OF ILLINOIS  
DEPARTMENT OF TRANSPORTATION**

**31ST STREET OVER I-90/94 (DAN RYAN EXPRESSWAY)  
ROADWAY PLAN**

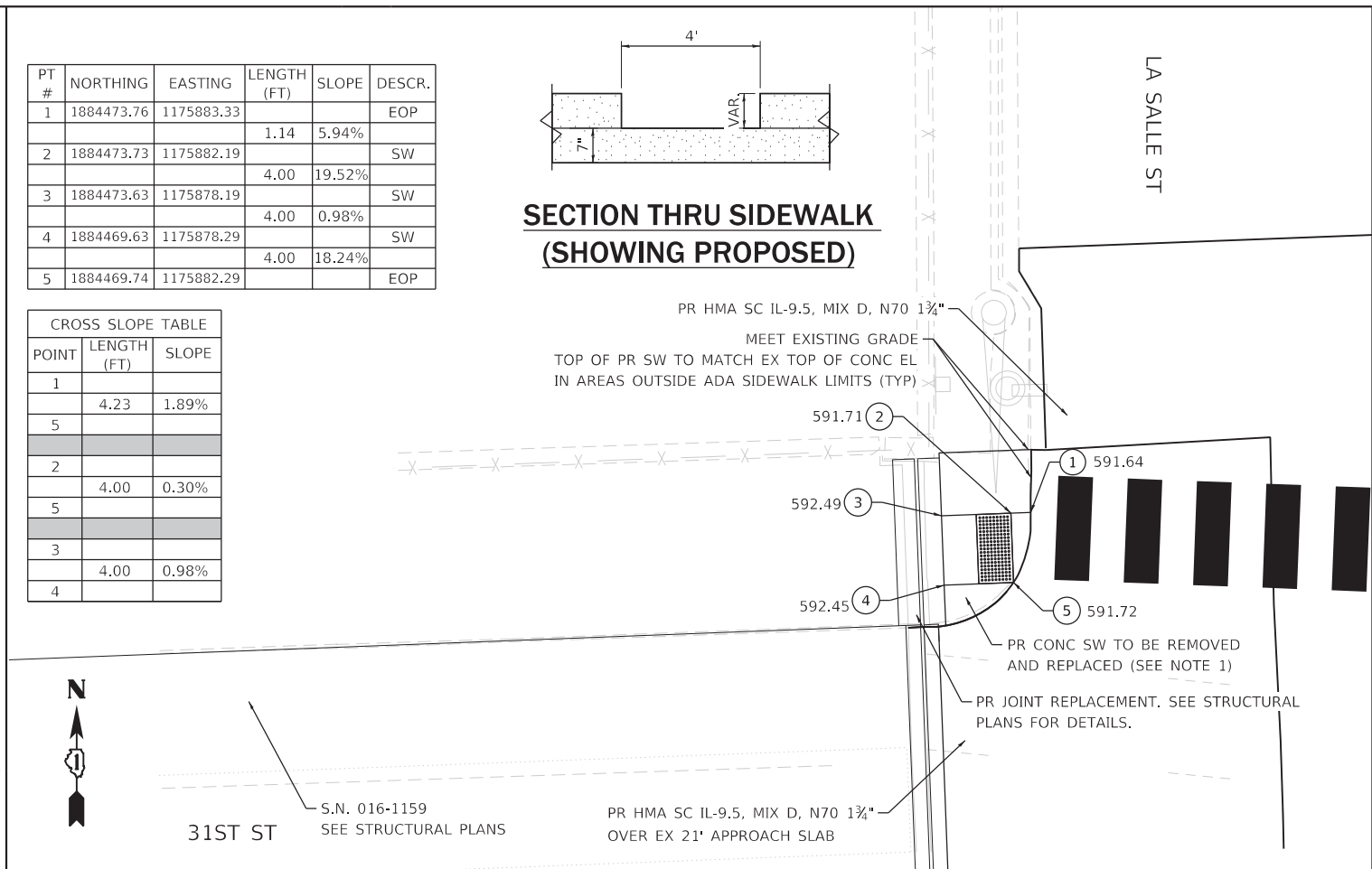
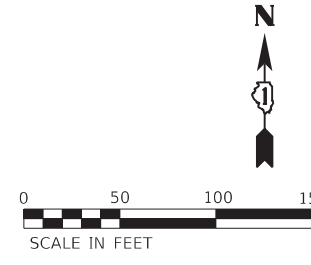
SCALE: 1"=50'    SHEET 1 OF 2 SHEETS    STA. 14+75.23 TO STA. 23+34.01

|                          |                |        |                           |           |
|--------------------------|----------------|--------|---------------------------|-----------|
| REVISED SHEET 12/28/2023 |                |        |                           |           |
| F.A.U. RTE.              | SECTION        | COUNTY | TOTAL SHEETS              | SHEET NO. |
| 1465                     | FAU 1465 22 BJ | COOK   | 50                        | 16        |
| CONTRACT NO. 62T44       |                |        | ILLINOIS FED. AID PROJECT |           |



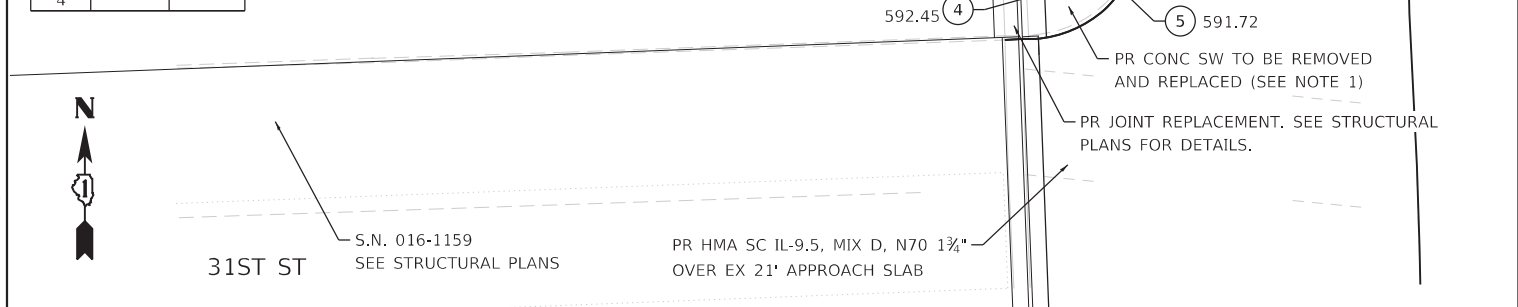
| POINT | LENGTH (FT) | SLOPE |
|-------|-------------|-------|
| 1     | 4.02        | 1.29% |
| 12    |             |       |
| 2     | 4.00        | 1.50% |
| 11    |             |       |
| 4     | 4.00        | 1.50% |
| 11    |             |       |
| 5     | 4.00        | 0.84% |
| 10    |             |       |
| 8     | 4.00        | 0.07% |
| 5     |             |       |
| 6     | 4.00        | 0.05% |
| 7     |             |       |

| PT # | NORTHING   | EASTING    | LENGTH (FT) | SLOPE | DESCR. |
|------|------------|------------|-------------|-------|--------|
| 1    | 1884469.32 | 1175470.00 | 4.35        | 1.50% | EOP    |
| 2    | 1884469.44 | 1175474.35 | 0.95        | 0.00% | SW     |
| 3    | 1884469.46 | 1175475.30 | 0.95        | 0.00% | SW     |
| 4    | 1884469.05 | 1175476.16 | 5.80        | 6.92% | SW     |
| 5    | 1884466.58 | 1175481.40 | 4.00        | 1.75% | SW     |
| 6    | 1884466.68 | 1175485.40 | 4.00        | 0.05% | SW     |
| 7    | 1884462.68 | 1175485.51 | 4.00        | 1.73% | SW     |
| 8    | 1884462.58 | 1175481.51 | 0.95        | 1.90% | SW     |
| 9    | 1884462.55 | 1175480.56 | 0.95        | 1.90% | SW     |
| 10   | 1884462.96 | 1175479.69 | 5.80        | 7.37% | SW     |
| 11   | 1884465.44 | 1175474.45 | 4.00        | 1.42% | SW     |
| 12   | 1884465.33 | 1175470.31 |             |       | EOP    |



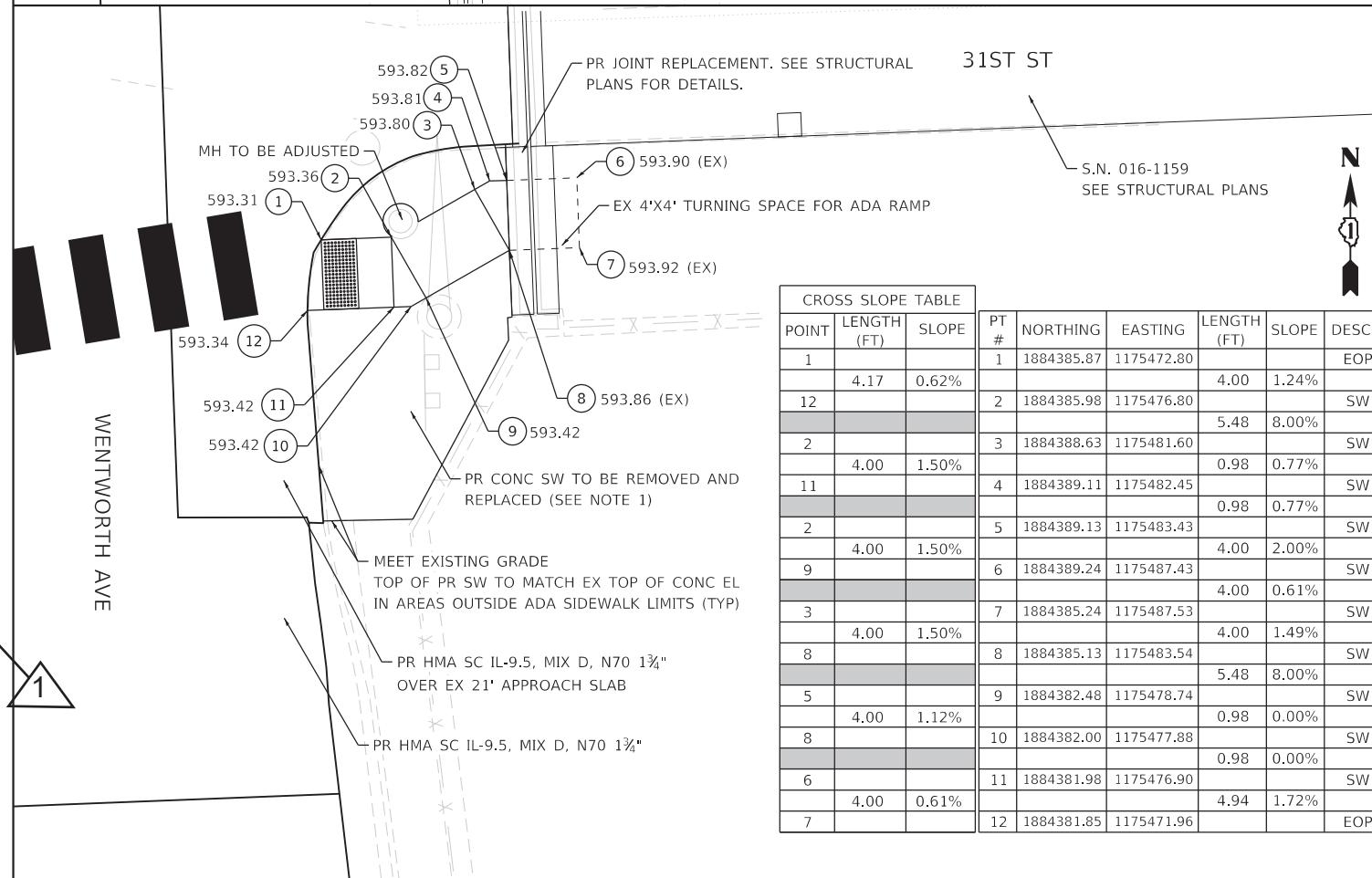
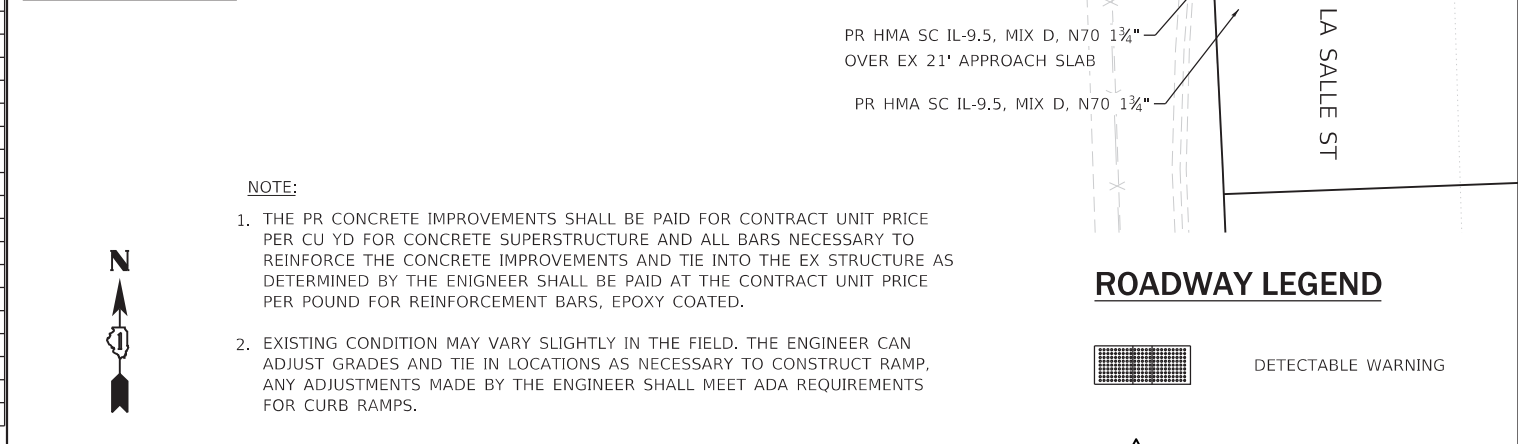
| PT # | NORTHING   | EASTING    | LENGTH (FT) | SLOPE  | DESCR. |
|------|------------|------------|-------------|--------|--------|
| 1    | 1884473.76 | 1175883.33 | 1.14        | 5.94%  | EOP    |
| 2    | 1884473.73 | 1175882.19 | 4.00        | 19.52% | SW     |
| 3    | 1884473.63 | 1175878.19 | 4.00        | 0.98%  | SW     |
| 4    | 1884469.63 | 1175878.29 | 4.00        | 18.24% | SW     |
| 5    | 1884469.74 | 1175882.29 |             |        | EOP    |

| POINT | LENGTH (FT) | SLOPE |
|-------|-------------|-------|
| 1     | 4.23        | 1.89% |
| 5     |             |       |
| 2     | 4.00        | 0.30% |
| 5     |             |       |
| 3     | 4.00        | 0.98% |
| 4     |             |       |



| PT # | NORTHING   | EASTING    | LENGTH (FT) | SLOPE  | DESCR. |
|------|------------|------------|-------------|--------|--------|
| 1    | 1884397.68 | 1175884.18 | 4.00        | 21.04% | EOP    |
| 2    | 1884397.57 | 1175880.18 | 4.00        | 0.33%  | SW     |
| 3    | 1884393.57 | 1175880.28 | 4.17        | 23.27% | SW     |
| 4    | 1884393.68 | 1175884.45 |             |        | EOP    |

| POINT | LENGTH (FT) | SLOPE |
|-------|-------------|-------|
| 1     | 4.00        | 1.90% |
| 4     |             |       |
| 2     | 4.00        | 0.33% |
| 3     |             |       |



| POINT | LENGTH (FT) | SLOPE |
|-------|-------------|-------|
| 1     | 4.17        | 0.62% |
| 12    |             |       |
| 2     | 4.00        | 1.50% |
| 11    |             |       |
| 11    | 4.00        | 1.50% |
| 9     | 4.00        | 1.50% |
| 8     | 4.00        | 1.12% |
| 6     | 4.00        | 0.61% |
| 7     |             |       |

| PT # | NORTHING   | EASTING    | LENGTH (FT) | SLOPE | DESCR. |
|------|------------|------------|-------------|-------|--------|
| 1    | 1884385.87 | 1175472.80 | 4.00        | 1.24% | EOP    |
| 2    | 1884385.98 | 1175476.80 | 5.48        | 8.00% | SW     |
| 3    | 1884388.63 | 1175481.60 | 0.98        | 0.77% | SW     |
| 4    | 1884389.11 | 1175482.45 | 0.98        | 0.77% | SW     |
| 5    | 1884389.13 | 1175483.43 | 4.00        | 2.00% | SW     |
| 6    | 1884389.24 | 1175487.43 | 4.00        | 0.61% | SW     |
| 7    | 1884385.24 | 1175487.53 | 4.00        | 1.49% | SW     |
| 8    | 1884385.13 | 1175483.54 | 5.48        | 8.00% | SW     |
| 9    | 1884382.48 | 1175478.74 | 0.98        | 0.00% | SW     |
| 10   | 1884382.00 | 1175477.88 | 0.98        | 0.00% | SW     |
| 11   | 1884381.98 | 1175476.90 | 4.94        | 1.72% | SW     |
| 12   | 1884381.85 | 1175471.96 |             |       | EOP    |

Sheet Added