

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|------------|-----------|--------------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 1 |
| ILLINOIS | | | CONTRACT NO. 62F87 | |

* 87 + 2 = 89 TOTAL SHEETS

D-91-215-18

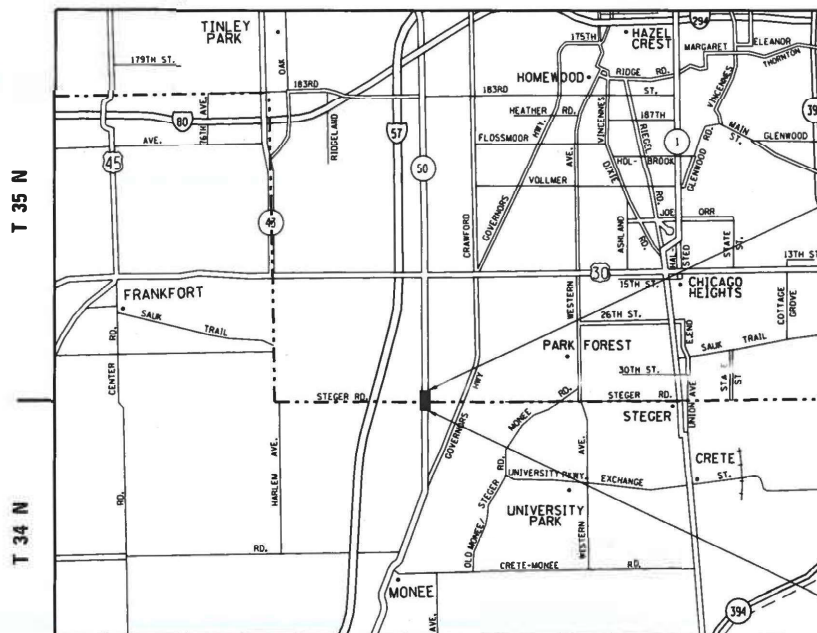


**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 350
IL ROUTE 50 (CICERO AVENUE)
AT STEGER ROAD
SECTION: 101W-N(17)
TURNING LANES, TRAFFIC SIGNAL INSTALLATION,
AND LIGHTING INSTALLATION
PROJECT: HSIP-STP-YF8F(033)
COOK & WILL COUNTY

C-91-065-18

R 13 E



PROJECT ENDS
STA. 202 + 50

PROJECT BEGINS
STA. 195 + 75

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN VILLAGES
OF UNIVERSITY PARK AND RICHTON PARK

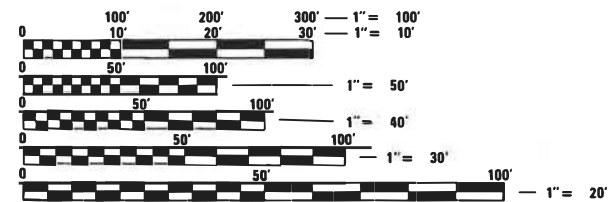
TRAFFIC DATA:
IL ROUTE 50 (CICERO AVENUE):

SPEED LIMIT ON NORTH LEG: 45 MPH
SPEED LIMIT ON SOUTH LEG: 55 MPH
NORTH LEG: 7,950 ADT (2019)
SOUTH LEG: 6,500 ADT (2019)

STEGER ROAD

SPEED LIMIT ON WEST LEG: 45 MPH
WEST LEG: 2,800 ADT (2018)

DESIGN DESIGNATION:
IL ROUTE 50 (CICERO AVENUE): PRINCIPAL ARTERIAL
STEGER ROAD: MAJOR COLLECTOR



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: LUKASZ POCIECHA (847) 705-4255
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4211

CONTRACT NO. 62F87

GROSS AND NET LENGTH = 1215 FT. = 0.230 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED August 5, 2021
Greg Ewald REGIONAL ENGINEER

October 1, 2021
[Signature] ENGINEER OF DESIGN AND ENVIRONMENT

October 21, 2021
Stephen M. Lewis DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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LIST OF STATE STANDARDS

| <u>STANDARD NO.</u> | <u>DESCRIPTION</u> |
|---------------------|---|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS |
| 280001-07 | TEMPORARY EROSION CONTROL SYSTEMS |
| 442201-03 | CLASS C AND D PATCHES |
| 482001-02 | HMA SHOULDER ADJACENT TO FLEXIBLE PAVEMENT |
| 482011-03 | HMA SHOULDER STRIPS/SHOULDERS WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS |
| 542306-03 | PRECASE REINFORCED CONCRETE ELLIPTICAL FLARED END SECTION |
| 601001-05 | PIPE UNDERDRAINS |
| 601101-02 | CONCRETE HEADWALL FOR PIPE UNDERDRAIN |
| 602011-02 | CATCH BASIN, TYPE C |
| 602402-03 | PRECAST MANHOLE, TYPE A, 5' (1.52 M) DIAMETER |
| 602601-06 | PRECAST REINFORCED CONCRETE FLAT SLAB TOP |
| 604001-05 | FRAME AND LIDS, TYPE 1 |
| 604036-03 | GRATE, TYPE 8 |
| 606301-04 | PC CONCRETE ISLANDS AND MEDIANS |
| 630001-12 | STEEL PLATE BEAM GUARDRAIL |
| 635001-02 | DELINEATORS |
| 701006-05 | OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE |
| 701011-04 | OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701311-03 | LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY |
| 701423-10 | LANE CLOSURE, MULTILANE, WITH BARRIER, FOR SPEEDS ≥ 45 MPH TO 55 MPH |
| 701426-09 | LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≥ 45 MPH |
| 701501-06 | URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED |
| 701601-09 | URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN |
| 701701-10 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
| 701901-08 | TRAFFIC CONTROL DEVICES |
| 704001-08 | TEMPORARY CONCRETE BARRIER |
| 720001-01 | SIGN PANEL MOUNTING DETAILS |
| 720006-04 | SIGN PANEL ERECTION DETAILS |
| 729001-01 | APPLICATIONS OF TYPES A AND B METAL POSTS (FOR SIGNS & MARKERS) |
| 782006-01 | GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS |
| 814001-03 | HANDHOLES |
| 814006-03 | DOUBLE HANDHOLES |
| 873001-02 | TRAFFIC SIGNAL GROUNDING & BONDING |
| 877001-08 | STEEL MAST ARM ASSEMBLY AND POLE 16' THROUGH 55' |
| 878001-11 | CONCRETE FOUNDATION DETAILS |
| 880006-01 | TRAFFIC SIGNAL MOUNTING DETAILS |
| 886001-01 | DETECTOR LOOP INSTALLATIONS |

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| USER NAME = rostkowsdr | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 9/24/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS AND STANDARDS
IL ROUTE 50 AT STEGER ROAD**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 2 |
| CONTRACT NO. 62F87 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

GENERAL NOTES

1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
2. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS 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, VILLAGE OF RICHTON PARK, AND VILLAGE OF UNIVERSITY PARK.
4. THE CONTRATOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
5. THE REMOVAL OF GUARDRAIL TERMINAL SECTIONS SHALL BE INCLUDED IN THE UNIT PRICE PER FOOT FOR "GUARDRAIL REMOVAL".
6. ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
8. FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
9. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
10. THE RESIDENT ENGINEER SHALL CONTACT ERIC CAMPOS, AREA TRAFFIC FIELD ENGINEER, VIA EMAIL AT ERIC.CAMPOS@ILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
11. WHERE SECTION OR SUB-SECTION MONUMENTS ARE ENCOUNTERED, THE ENGINEER SHALL BE NOTIFIED BEFORE SUCH MONUMENTS ARE REMOVED. THE CONTRACTOR SHALL PROTECT AND CAREFULLY PRESERVE ALL PROPERTY MARKERS AND MONUMENTS UNTIL THE OWNER, AN AUTHORIZED SURVEYOR OR AGENT HAS WITNESSED THEIR LOCATION.
12. THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAUS OF MATERIALS, CONSTRUCTION, MAINTENANCE, AND TRAFFIC.
13. THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS. DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULATIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MISTURE IS PLACED.
14. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
15. BACKFILLING STORM SEWER CONSTRUCTED UNDER THE ROADWAY SPECIFIED UNDER ART. 550.07(b, c) OF THE SSRBC (STANDARD SPECIFICATIONS) WILL NOT BE ALLOWED.
16. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
17. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
18. WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 40 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 KM/H). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.
19. THE CONTRACTOR SHALL VERIFY THE EXISTING TYPE/HEIGHT OF EXISTING GUARDRAIL BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF TERMINAL. THE TERMINAL SECTION SHALL MATCH THE HEIGHT OF THE EXISTING GUARDRAIL.
20. THE SUBGRADE STABILITY SHALL BE VERIFIED BY PROOF ROLLING WITH A FULLY LOADED TANDEM-AXLE TRUCK.
21. GEOTECHNICAL FABRIC FOR GROUND STABILIZATION AND/OR AGGREGATE SUBGRADE IMPROVEMENT (CU YD) HAVE BEEN PROVIDED FOR USE AT THE LOCATIONS INDICATED FOR SOILS THAT TEND TO BE UNSTABLE AND/OR UNSUITABLE. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH ABOVE ITEM WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE GEOTECHNICAL ENGINEER. ALL POTENTIALLY UNSTABLE SOILS SHOULD BE TESTED WITH A STATIC OR DYNAMIC CONE PENETROMETER AND TREATED IN ACCORDANCE WITH ARTICLE 301.04 OF THE SSRBC AND IDOT SUBGRADE STABILITY MANUAL. IF UNSTABLE AND/OR UNSUITABLE SOILS ARE NOT ENCOUNTERED, THEN THE QUANTITY SHALL BE DEDUCTED AND NO ADDITIONAL COMPENSATION WILL BE DUE TO THE CONTRACTOR.
22. ANY AGGREGATE SUBGRADE IMPROVEMENT CONTAMINATED AND/OR DAMAGED BY THE CONTRACTOR'S VEHICLES AND/OR EQUIPMENTS IS TO BE REMOVED AND REPLACED AS DIRECTED BY THE ENGINEER AT CONTRACTOR'S EXPENSE.
23. PIPE UNDERDRAINS SHALL BE INSTALLED ACCORDING TO SECTION 601 OF THE SSRBC AND STANDARD 601001-05. TOP OF PIPE UNDERDRAINS SHALL BE PLACED MINIMUM 6" BELOW THE AGGREGATE SUBGRADE IMPROVEMENT LAYER. THE COST OF MAKING PIPE UNDERDRAINS CONNECTIONS TO DRAINAGE STRUCTURES SHALL BE INCLUDED IN THE COST OF THE PIPE UNDERDRAINS.
24. RESTORATION OF THE TRAFFIC SIGNAL AND LIGHTING WORK AREAS SHALL BE INCLUDED IN THE RELATED PAY ITEM SUCH AS FOUNDATION, CONDUIT, HANDHOLE, ETC., AND NO EXTRA COMPENSATION SHALL BE ALLOWED. ALL ROADWAY SURFACES SUCH AS SHOULDERS, MEDIANS, SIDEWALKS, PAVEMENTS, ETC. SHALL BE REPLACED IN KIND. ALL DAMAGE TO MOWED LAWNS SHALL BE REPLACED WITH AN APPROVED SOD, AND ALL DAMAGE TO UNMOWED FIELDS SHALL BE SEEDED IN ACCORDANCE WITH STANDARD SPECIFICATIONS 252 AND 250 RESPECTIVELY.
25. THE CONTRACTOR SHALL ERECT A TEMPORARY FENCE AROUND EXISTING WETLANDS TO ESTABLISH A "WETLAND PROTECTION ZONE" BEFORE ANY WORK BEGINS OR ANY MATERIAL IS DELIVERED TO THE JOBSITE. NO WORK IS TO BE PERFORMED, MATERIALS STORED, VEHICLES DRIVEN OR PARKED WITHIN THE "WETLAND PROTECTION ZONE". REMOVE PROTECTIVE TEMPORARY FENCE ONLY AFTER ALL CONSTRUCTION WORK HAS BEEN COMPLETED.
26. THE CONTRACTOR SHALL ATTACH AN ALUMINUM SIGN WITH THE FOLLOWING TEXT: PROTECTED WETLAND - NO INTRUSION. THE SIGN(S) SHALL BE ATTACHED TO THE STAKES BY A METHOD APPROVED BY THE ENGINEER. THE SIGN(S) WILL BE PROVIDED BY THE DEPARTMENT AND SHALL BE PICKED UP BY THE CONTRACTOR FROM THE DISTRICT ONE ROADSIDE DEVELOPMENT ARCHITECT IN SCHAUMBURG, ILLINOIS. SCHEDULING THE PICKUP OF THE SIGNS CAN BE ARRANGED BY CONTACTING THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT AT (847)705-4171. WHEN WORK HAS BEEN COMPLETED, THE SIGN SHALL BE RETURNED TO THE DISTRICT ONE ROADSIDE DEVELOPMENT UNIT. THE COST OF PICKING UP, ATTACHING THE SIGNS TO THE TEMPORARY FENCE STAKES AND RETURNING THE SIGNS WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE CONTRACT UNIT PRICE FOR TEMPORARY FENCE.
27. THE CONTRACTOR SHALL TAKE EXTRA CARE IN GRADING AND EXCAVATING NEAR TREES WHICH ARE NOT MARKED FOR REMOVAL SO AS NOT TO CAUSE INJURY TO THE ROOT SYSTEM OR TRUNKS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED BY THE CONTRACTOR AT THE CONTRACTOR'S OWN EXPENSE.
28. PHOSPHORUS FERTILIZER HAS BEEN INTENTIONALLY OMITTED FROM THE CONTRACT DUE TO THE PROXIMITY TO EXISTING WETLANDS. A PHOSPHORUS-FREE FERTILIZER SHALL BE USED (MIDDLE NUMBER SHOULD EQUAL 0).
29. THE CONTRACTOR SHALL OBSERVE AND COMPLY WITH ALL SECTIONS OF THE ILLINOIS CUSTOM SPRAY LAW, INCLUDING LICENSING. CONTRACTOR PERSONNEL APPLYING HERBICIDES SHALL HAVE A VALID PESTICIDE APPLICATOR LICENSE ISSUED BY THE ILLINOIS DEPARTMENT OF AGRICULTURE. THE LICENSED PESTICIDE APPLICATOR SHALL SUBMIT THEIR CURRENT LICENSE TO THE ENGINEER. THE LICENSED PESTICIDE APPLICATOR SHALL BE QUALIFIED AT A MINIMUM IN RIGHT-OF-WAY AND AQUATICS. THE LICENSED APPLICATOR SHALL WORK ON-SITE.
30. THE CONTRACTOR WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT 847.705.4171, TO SCHEDULE A WALK THROUGH TO DETERMINE TREE REMOVAL AND SELECTIVE CLEARING AT LEAST 14 DAYS PRIOR TO THE START OF SUCH WORK.
31. THE CONTRACTOR WILL CONTACT THE ROADSIDE DEVELOPMENT UNIT AT 847.705.4171, TO SCHEDULE LAYOUT OF AREAS TO BE TREATED WITH HERBICIDE AT LEAST 7 DAYS PRIOR TO THE APPLICATION.
32. THE SEEDING DATES FOR MIXTURE CLASS 4A (MODIFIED) AND CLASS 4B (MODIFIED) SHALL BE FROM OCTOBER 15 TO MARCH 15. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT THEIR EXPENSE.
33. THE SEEDING DATES FOR BARE EARTH SEEDING OF MIXTURE CLASS 2A SHALL BE FROM APRIL 1 TO JUNE 1 AND FROM AUGUST 15 TO SEPTEMBER 30. ALL SEEDING NOT SOWN ACCORDING TO THE SPECIFIED SEASONAL DATE SHALL REQUIRE PRIOR WRITTEN APPROVAL FROM THE ENGINEER. FAILURE TO SECURE SUCH APPROVAL SHALL RESULT IN THE REJECTION OF THE SEEDING AND REPLACEMENT BY THE CONTRACTOR AT THEIR EXPENSE.
34. THE CONTRACTOR WILL CONTACT FABIOLA QUIROZ OF THE ROADSIDE DEVELOPMENT UNIT AT (847) 705-4596, AT LEAST 7 DAYS PRIOR TO PLANTING FOR ALL LAYOUT OF THE VARIOUS SEEDING CLASSES.

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| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**GENERAL NOTES
IL ROUTE 50 AT STEGER ROAD**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|------------|-----------|------------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 3 |
| CONTRACT NO. 62F87 | | | | |
| | | ILLINOIS | FED. AID PROJECT | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES URBAN | CONSTRUCTION TYPE CODE | | | | | | | | | | | | |
|-----------------------|--|-------|------------------------|--|--|---|---|--|--|---|---|--|--|--|--|-----------------|
| CODE NO | ITEM | UNIT | | 0004 ROADWAY 90% HSIP (FED) 10% STATE COOK COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) COOK COUNTY | 0021 EVP 100% TOLL CREDIT (FED) COOK COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) COOK COUNTY | 0004 ROADWAY 90% HSIP (FED) 10% STATE WILL COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) WILL COUNTY | 0021 EVP 100% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 80% FED 20% UNIVERSITY PARK WILL COUNTY | | | | |
| 20100110 | TREE REMOVAL (6 TO 15 UNITS DIAMETER) | UNIT | 100 | 50 | | | | 50 | | | | | | | | |
| 20101000 | TEMPORARY FENCE | FOOT | 150 | | | | | 150 | | | | | | | | |
| 20200100 | EARTH EXCAVATION | CU YD | 494 | 247 | | | | 247 | | | | | | | | |
| 20201200 | REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL | CU YD | 286 | 143 | | | | 143 | | | | | | | | |
| 20800150 | TRENCH BACKFILL | CU YD | 22 | 11 | | | | 11 | | | | | | | | |
| 21001000 | GEOTECHNICAL FABRIC FOR GROUND STABILIZATION | SQ YD | 198 | 99 | | | | 99 | | | | | | | | |
| 21101505 | TOPSOIL EXCAVATION AND PLACEMENT | CU YD | 420 | 210 | | | | 210 | | | | | | | | |
| 21101615 | TOPSOIL FURNISH AND PLACE, 4" | SQ YD | 1096 | 548 | | | | 548 | | | | | | | | |
| 21101645 | TOPSOIL FURNISH AND PLACE, 12" | SQ YD | 41 | | | | | 41 | | | | | | | | |
| 25000210 | SEEDING, CLASS 2A | ACRE | 0.184 | 0.092 | | | | 0.092 | | | | | | | | |
| 25000400 | NITROGEN FERTILIZER NUTRIENT | POUND | 34 | 17 | | | | 17 | | | | | | | | |
| 25000600 | POTASSIUM FERTILIZER NUTRIENT | POUND | 34 | 17 | | | | 17 | | | | | | | | |
| 25000750 | MOWING | ACRE | 2 | 1 | | | | 1 | | | | | | | | |
| 25100115 | MULCH, METHOD 2 | ACRE | 0.26 | 0.13 | | | | 0.13 | | | | | | | | |
| | | | | | | | | | | | | | | | | *SPECIALTY ITEM |

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| DRAWN - RR | CHECKED - LP | REVISED - |
| PLOT SCALE = 100.0000' / in. | DATE - 8/13/2021 | REVISED - |
| PLOT DATE = 8/16/2021 | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL ROUTE 50 AT STEGER ROAD

SCALE: - SHEET 1 OF 13 SHEETS STA. - TO STA. -

| | | | | |
|---------------------------|------------|-----------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK/WILL | 87 | 4 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES URBAN | CONSTRUCTION TYPE CODE | | | | | | | | | | | | |
|-----------------------|--|-------|------------------------|--|--|---|---|--|--|---|---|--|--|--|--|-----------------|
| CODE NO | ITEM | UNIT | | 0004 ROADWAY 90% HSIP (FED) 10% STATE COOK COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) COOK COUNTY | 0021 EVP 100% TOLL CREDIT (FED) COOK COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) COOK COUNTY | 0004 ROADWAY 90% HSIP (FED) 10% STATE WILL COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) WILL COUNTY | 0021 EVP 100% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 80% (FED) 20% UNIVERSITY PARK WILL COUNTY | | | | |
| 25100125 | MULCH, METHOD 3 | ACRE | 0.117 | | | | | 0.117 | | | | | | | | |
| 25100630 | EROSION CONTROL BLANKET | SQ YD | 1262 | 631 | | | | 631 | | | | | | | | |
| 28000250 | TEMPORARY EROSION CONTROL SEEDING | POUND | 26 | 13 | | | | 13 | | | | | | | | |
| 28000305 | TEMPORARY DITCH CHECKS | FOOT | 78 | 39 | | | | 39 | | | | | | | | |
| 28000510 | INLET FILTERS | EACH | 1 | 1 | | | | | | | | | | | | |
| 28100105 | STONE RIPRAP, CLASS A3 | SQ YD | 32 | 16 | | | | 16 | | | | | | | | |
| 28200200 | FILTER FABRIC | SQ YD | 32 | 16 | | | | 16 | | | | | | | | |
| 30300001 | AGGREGATE SUBGRADE IMPROVEMENT | CU YD | 66 | 33 | | | | 33 | | | | | | | | |
| 30300112 | AGGREGATE SUBGRADE IMPROVEMENT 12" | SQ YD | 1162 | 581 | | | | 581 | | | | | | | | |
| 31102000 | SUBBASE GRANULAR MATERIAL, TYPE C | CU YD | 48 | 24 | | | | 24 | | | | | | | | |
| 35300500 | PORTLAND CEMENT CONCRETE BASE COURSE 10" | SQ YD | 33 | | | | | 33 | | | | | | | | |
| 35501324 | HOT-MIX ASPHALT BASE COURSE, 10" | SQ YD | 388 | 194 | | | | 194 | | | | | | | | |
| 35600716 | HOT-MIX ASPHALT BASE COURSE WIDENING, 10" | SQ YD | 34 | 17 | | | | 17 | | | | | | | | |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 3486 | 1743 | | | | 1743 | | | | | | | | |
| | | | | | | | | | | | | | | | | *SPECIALTY ITEM |

MODEL: Default
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|------------------------------|------------------|-----------|
| USER NAME = rostkowski | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL ROUTE 50 AT STEGER ROAD**

SCALE: - SHEET 2 OF 13 SHEETS STA. - TO STA. -

| | | | | |
|---------------------------|------------|-----------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-A(17) | COOK/WILL | 87 | 5 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES URBAN | CONSTRUCTION TYPE CODE | | | | | | | | | | | | |
|-----------------------|---|-------|------------------------|--|--|---|---|--|--|---|---|--|--|--|--|-----------------|
| CODE NO | ITEM | UNIT | | 0004 ROADWAY 90% HSIP (FED) 10% STATE COOK COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) COOK COUNTY | 0021 EVP 100% TOLL CREDIT (FED) COOK COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) COOK COUNTY | 0004 ROADWAY 90% HSIP (FED) 10% STATE WILL COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) WILL COUNTY | 0021 EVP 100% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 80% (FED) 20% UNIVERSITY PARK WILL COUNTY | | | | |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT | SQ YD | 74 | 37 | | | | 37 | | | | | | | | |
| | JOINT | | | | | | | | | | | | | | | |
| 40603200 | POLYMERIZED HOT-MIX ASPHALT BINDER | TON | 214 | 107 | | | | 107 | | | | | | | | |
| | COURSE, IL-4.75, N50 | | | | | | | | | | | | | | | |
| 40605026 | POLYMERIZED HOT-MIX ASPHALT SURFACE | TON | 506 | 253 | | | | 253 | | | | | | | | |
| | COURSE, STONE MATRIX ASPHALT, 9.5, MIX | | | | | | | | | | | | | | | |
| | "F", N80 | | | | | | | | | | | | | | | |
| 44000100 | PAVEMENT REMOVAL | SQ YD | 92 | 46 | | | | 46 | | | | | | | | |
| 44000159 | HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" | SQ YD | 4742 | 2371 | | | | 2371 | | | | | | | | |
| 44000200 | DRIVEWAY PAVEMENT REMOVAL | SQ YD | 120 | 60 | | | | 60 | | | | | | | | |
| 44003100 | MEDIAN REMOVAL | SQ FT | 3300 | | | | | 3300 | | | | | | | | |
| 44004250 | PAVED SHOULDER REMOVAL | SQ YD | 278 | 139 | | | | 139 | | | | | | | | |
| 44201692 | CLASS D PATCHES, TYPE II, 4 INCH | SQ YD | 22 | 11 | | | | 11 | | | | | | | | |
| 44201694 | CLASS D PATCHES, TYPE III, 4 INCH | SQ YD | 22 | 11 | | | | 11 | | | | | | | | |
| 44201721 | CLASS D PATCHES, TYPE III, 6 INCH | SQ YD | 24 | 12 | | | | 12 | | | | | | | | |
| 44201827 | CLASS D PATCHES, TYPE II, 15 INCH | SQ YD | 18 | 9 | | | | 9 | | | | | | | | |
| 44201831 | CLASS D PATCHES, TYPE III, 15 INCH | SQ YD | 18 | 9 | | | | 9 | | | | | | | | |
| | | | | | | | | | | | | | | | | *SPECIALTY ITEM |

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| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowski | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL ROUTE 50 AT STEGER ROAD**

SCALE: - SHEET 3 OF 13 SHEETS STA. - TO STA. -

| | | | | |
|---------------------------|------------|-----------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK/WILL | 87 | 6 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES URBAN | CONSTRUCTION TYPE CODE | | | | | | | | | | | | |
|-----------------------|--|-------|------------------------|--|--|---|---|--|--|---|---|--|--|--|--|------------------|
| CODE NO | ITEM | UNIT | | 0004 ROADWAY 90% HSIP (FED) 10% STATE COOK COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) COOK COUNTY | 0021 EVP 100% TOLL CREDIT (FED) COOK COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) COOK COUNTY | 0004 ROADWAY 90% HSIP (FED) 10% STATE WILL COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) WILL COUNTY | 0021 EVP 100% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 80% (FED) 20% UNIVERSITY PARK WILL COUNTY | | | | |
| 48102100 | AGGREGATE WEDGE SHOULDER, TYPE B | TON | 32 | 16 | | | | 16 | | | | | | | | |
| 48203029 | HOT-MIX ASPHALT SHOULDERS, 8" | SQ YD | 334 | 167 | | | | 167 | | | | | | | | |
| 48301000 | PROTECTIVE COAT | SQ YD | 228 | 114 | | | | 114 | | | | | | | | |
| 50104400 | CONCRETE HEADWALL REMOVAL | EACH | 2 | 1 | | | | 1 | | | | | | | | |
| 50105220 | PIPE CULVERT REMOVAL | FOOT | 74 | 37 | | | | 37 | | | | | | | | |
| 54214719 | PRECAST REINFORCED CONCRETE FLARED END | EACH | 2 | 1 | | | | 1 | | | | | | | | |
| | SECTIONS - ELLIPTICAL, EQUIVALENT | | | | | | | | | | | | | | | |
| | ROUND-SIZE 24" | | | | | | | | | | | | | | | |
| 550A0070 | STORM SEWERS, CLASS A, TYPE 1 15" | FOOT | 48.9 | 48.9 | | | | | | | | | | | | |
| 550A4100 | STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT | FOOT | 104 | 52 | | | | 52 | | | | | | | | |
| | ROUND-SIZE 24" | | | | | | | | | | | | | | | |
| 60100060 | CONCRETE HEADWALLS FOR PIPE DRAINS | EACH | 3 | 2 | | | | 1 | | | | | | | | |
| 60108100 | PIPE UNDERDRAINS 4" (SPECIAL) | FOOT | 36 | 18 | | | | 18 | | | | | | | | |
| 60108204 | PIPE UNDERDRAINS, TYPE 2, 4" | FOOT | 380 | 190 | | | | 190 | | | | | | | | |
| 60207605 | CATCH BASINS, TYPE C, TYPE 8 GRATE | EACH | 1 | 1 | | | | | | | | | | | | |
| 60221100 | MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 | EACH | 1 | 1 | | | | | | | | | | | | |
| | FRAME, CLOSED LID | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | * SPECIALTY ITEM |

MODEL: Default
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|------------------------------|------------------|-----------|
| USER NAME = rostkowskir | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL ROUTE 50 AT STEGER ROAD**

SCALE: - SHEET 4 OF 13 SHEETS STA. - TO STA. -

| | | | | |
|---------------------------|------------|-----------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK/WILL | 87 | 7 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES URBAN | CONSTRUCTION TYPE CODE | | | | | | | | | | | | | |
|-----------------------|--|--------|------------------------|--|--|---|---|--|--|---|---|--|--|--|--|--|-----------------|
| CODE NO | ITEM | UNIT | | 0004 ROADWAY 90% HSIP (FED) 10% STATE COOK COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) COOK COUNTY | 0021 EVP 100% TOLL CREDIT (FED) COOK COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) COOK COUNTY | 0004 ROADWAY 90% HSIP (FED) 10% STATE WILL COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) WILL COUNTY | 0021 EVP 100% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 80% (FED) 20% UNIVERSITY PARK WILL COUNTY | | | | | |
| 60250200 | CATCH BASINS TO BE ADJUSTED | EACH | 1 | | | | | 1 | | | | | | | | | |
| 60603800 | COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6,12 | FOOT | 356 | | | | | 356 | | | | | | | | | |
| 60619600 | CONCRETE MEDIAN, TYPE SB-6.12 | SQ FT | 951 | | | | | 951 | | | | | | | | | |
| * 63000001 | STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS | FOOT | 12.5 | 12.5 | | | | | | | | | | | | | |
| * 63100167 | TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT | EACH | 1 | 1 | | | | | | | | | | | | | |
| 63200310 | GUARDRAIL REMOVAL | FOOT | 37.5 | 37.5 | | | | | | | | | | | | | |
| * 63301210 | REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL, TYPE A | FOOT | 150 | 150 | | | | | | | | | | | | | |
| * 66900200 | NON-SPECIAL WASTE DISPOSAL | CU YD | 250 | 125 | | | | 125 | | | | | | | | | |
| * 66900530 | SOIL DISPOSAL ANALYSIS | EACH | 4 | 2 | | | | 2 | | | | | | | | | |
| * 66901001 | REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN | L SUM | 1 | 0.5 | | | | 0.5 | | | | | | | | | |
| * 66901003 | REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT | L SUM | 1 | 0.5 | | | | 0.5 | | | | | | | | | |
| * 66901006 | REGULATED SUBSTANCES MONITORING | CAL DA | 4 | 2 | | | | 2 | | | | | | | | | |
| | | | | | | | | | | | | | | | | | *SPECIALTY ITEM |

MODEL: Default
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|------------------------------|------------------|-----------|
| USER NAME = rostkowski | DESIGNED - RR | REVISED - |
| DRAWN - RR | REVISED - | |
| PLOT SCALE = 100.0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL ROUTE 50 AT STEGER ROAD**

SCALE: - SHEET 5 OF 13 SHEETS STA. - TO STA. -

| | | | | |
|---------------------------|------------|-----------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK/WILL | 87 | 8 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES URBAN | CONSTRUCTION TYPE CODE | | | | | | | | | | | | |
|-----------------------|--|--------|------------------------|--|--|---|---|--|--|---|---|--|--|--|--|-----------------|
| CODE NO | ITEM | UNIT | | 0004 ROADWAY 90% HSIP (FED) 10% STATE COOK COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) COOK COUNTY | 0021 EVP 100% TOLL CREDIT (FED) COOK COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) COOK COUNTY | 0004 ROADWAY 90% HSIP (FED) 10% STATE WILL COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) WILL COUNTY | 0021 EVP 100% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 80% (FED) 20% UNIVERSITY PARK WILL COUNTY | | | | |
| 67000400 | ENGINEER'S FIELD OFFICE, TYPE A | CAL MO | 18 | 9 | | | | 9 | | | | | | | | |
| 67100100 | MOBILIZATION | L SUM | 1 | 0.5 | | | | 0.5 | | | | | | | | |
| 70106800 | CHANGEABLE MESSAGE SIGN | CAL MO | 3 | 1.5 | | | | 1.5 | | | | | | | | |
| 70300100 | SHORT TERM PAVEMENT MARKING | FOOT | 2516 | 1258 | | | | 1258 | | | | | | | | |
| 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SQ FT | 840 | 420 | | | | 420 | | | | | | | | |
| 70300210 | TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS | SQ FT | 40 | 20 | | | | 20 | | | | | | | | |
| 70300220 | TEMPORARY PAVEMENT MARKING - LINE 4" | FOOT | 3506 | 1753 | | | | 1753 | | | | | | | | |
| 70300240 | TEMPORARY PAVEMENT MARKING - LINE 6" | FOOT | 280 | 140 | | | | 140 | | | | | | | | |
| 70300280 | TEMPORARY PAVEMENT MARKING - LINE 24" | FOOT | 110 | 55 | | | | 55 | | | | | | | | |
| 70300520 | PAVEMENT MARKING TAPE, TYPE III 4" | FOOT | 630 | 315 | | | | 315 | | | | | | | | |
| 70300904 | PAVEMENT MARKING TAPE, TYPE IV 4" | FOOT | 5914 | 2957 | | | | 2957 | | | | | | | | |
| 70300924 | PAVEMENT MARKING TAPE, TYPE IV 24" | FOOT | 68 | 34 | | | | 34 | | | | | | | | |
| 70400100 | TEMPORARY CONCRETE BARRIER | FOOT | 818 | 409 | | | | 409 | | | | | | | | |
| 70400200 | RELOCATE TEMPORARY CONCRETE BARRIER | FOOT | 1730 | 865 | | | | 865 | | | | | | | | |
| | | | | | | | | | | | | | | | | *SPECIALTY ITEM |

MODEL: Default
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|------------------------------|------------------|-----------|
| USER NAME = rostkowskir | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL ROUTE 50 AT STEGER ROAD**

SCALE: - SHEET 6 OF 13 SHEETS STA. - TO STA. -

| | | | | |
|---------------------------|------------|-----------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK/WILL | 87 | 9 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES URBAN | CONSTRUCTION TYPE CODE | | | | | | | | | | | | |
|-----------------------|---|-------|------------------------|--|--|---|---|--|--|---|---|--|--|--|--|------------------|
| CODE NO | ITEM | UNIT | | 0004 ROADWAY 90% HSIP (FED) 10% STATE COOK COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) COOK COUNTY | 0021 EVP 100% TOLL CREDIT (FED) COOK COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) COOK COUNTY | 0004 ROADWAY 90% HSIP (FED) 10% STATE WILL COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) WILL COUNTY | 0021 EVP 100% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 80% (FED) 20% UNIVERSITY PARK WILL COUNTY | | | | |
| 70600260 | IMPACT ATTENUATORS, TEMPORARY (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH | 3 | | | | | 3 | | | | | | | | |
| 70600332 | IMPACT ATTENUATORS, RELOCATE (FULLY REDIRECTIVE, NARROW), TEST LEVEL 3 | EACH | 5 | 2 | | | | 3 | | | | | | | | |
| * 72000100 | SIGN PANEL - TYPE 1 | SQ FT | 48.7 | 17.6 | 6.75 | | | 17.6 | 6.75 | | | | | | | |
| * 72000200 | SIGN PANEL - TYPE 2 | SQ FT | 52 | 13.5 | 12.5 | | | 13.5 | 12.5 | | | | | | | |
| 72400200 | REMOVE SIGN PANEL ASSEMBLY - TYPE B | EACH | 8 | 4 | | | | 4 | | | | | | | | |
| 72400500 | RELOCATE SIGN PANEL ASSEMBLY - TYPE A | EACH | 3 | 2 | | | | 1 | | | | | | | | |
| 72400600 | RELOCATE SIGN PANEL ASSEMBLY - TYPE B | EACH | 3 | 2 | | | | 1 | | | | | | | | |
| 72900200 | METAL POST - TYPE B | FOOT | 192 | 96 | | | | 96 | | | | | | | | |
| * 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SQ FT | 40 | 20 | | | | 20 | | | | | | | | |
| * 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 3506 | 1753 | | | | 1753 | | | | | | | | |
| * 78000400 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" | FOOT | 280 | 140 | | | | 140 | | | | | | | | |
| * 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 110 | 55 | | | | 55 | | | | | | | | |
| | | | | | | | | | | | | | | | | * SPECIALTY ITEM |

MODEL: Default
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|------------------------------|------------------|-----------|
| USER NAME = rostkowski | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL ROUTE 50 AT STEGER ROAD**

SCALE: - SHEET 7 OF 13 SHEETS STA. - TO STA. -

| | | | | |
|---------------------------|------------|-----------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-A(17) | COOK/WILL | 87 | 10 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES URBAN | CONSTRUCTION TYPE CODE | | | | | | | | | | | |
|-----------------------|---|-------|------------------------|--|--|---|---|--|--|---|---|--|--|--|------------------|
| CODE NO | ITEM | UNIT | | 0004 ROADWAY 90% HSIP (FED) 10% STATE COOK COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) COOK COUNTY | 0021 EVP 100% TOLL CREDIT (FED) COOK COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) COOK COUNTY | 0004 ROADWAY 90% HSIP (FED) 10% STATE WILL COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) WILL COUNTY | 0021 EVP 100% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 80% (FED) 20% UNIVERSITY PARK WILL COUNTY | | | |
| * 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 66 | 33 | | | | 33 | | | | | | | |
| * 78200006 | GUARDRAIL REFLECTORS, TYPE B | EACH | 1 | 1 | | | | | | | | | | | |
| * 78200011 | BARRIER WALL REFLECTORS, TYPE C | EACH | 70 | 35 | | | | 35 | | | | | | | |
| 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 54 | 27 | | | | 27 | | | | | | | |
| 78300201 | PAVEMENT MARKING REMOVAL - GRINDING | SQ FT | 154 | 77 | | | | 77 | | | | | | | |
| 78300202 | PAVEMENT MARKING REMOVAL - WATER BLASTING | SQ FT | 144 | 72 | | | | 72 | | | | | | | |
| * 80400100 | ELECTRIC SERVICE INSTALLATION | EACH | 1 | | | | | | | | 1 | | | | |
| * 80400200 | ELECTRIC UTILITY SERVICE CONNECTION | L SUM | 1 | | | | | | | | 1 | | | | |
| * 81028200 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 637 | 318.5 | | | | 318.5 | | | | | | | |
| * 81028220 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 135 | 67.5 | | | | 67.5 | | | | | | | |
| * 81028240 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 543 | 146.5 | | | 12.5 | 146.5 | | | 12.5 | | | | |
| * 81400100 | HANDHOLE | EACH | 1 | 1 | | | | | | | | | | | |
| | | | | | | | | | | | | | | | * SPECIALTY ITEM |

MODEL: Default
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 PROJECT: 11010101\11010101.dwg
 USER: rrostowski

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|------------------------------|------------------|-----------|
| USER NAME = rostkowski | DESIGNED - RR | REVISED - |
| DRAWN - RR | CHECKED - LP | REVISED - |
| PLOT SCALE = 100.0000' / in. | DATE - 8/13/2021 | REVISED - |
| PLOT DATE = 8/16/2021 | | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL ROUTE 50 AT STEGER ROAD**

SCALE: - SHEET 8 OF 13 SHEETS STA. - TO STA. -

| | | | | |
|---------------------------|------------|-----------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK/WILL | 87 | 11 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES URBAN | CONSTRUCTION TYPE CODE | | | | | | | | | | | | |
|-----------------------|---|------|------------------------|--|--|---|---|--|--|---|---|--|--|--|--|------------------|
| CODE NO | ITEM | UNIT | | 0004 ROADWAY 90% HSIP (FED) 10% STATE COOK COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) COOK COUNTY | 0021 EVP 100% TOLL CREDIT (FED) COOK COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) COOK COUNTY | 0004 ROADWAY 90% HSIP (FED) 10% STATE WILL COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) WILL COUNTY | 0021 EVP 100% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 80% (FED) 20% UNIVERSITY PARK WILL COUNTY | | | | |
| * 81400200 | HEAVY-DUTY HANDHOLE | EACH | 6 | | 2 | | | | | | 4 | | | | | |
| * 81400300 | DOUBLE HANDHOLE | EACH | 1 | | 1 | | | | | | | | | | | |
| * 81702440 | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 1/0 | FOOT | 50 | | | | 25 | | | | | 25 | | | | |
| * 82500335 | LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240VOLT, 100AMP | EACH | 1 | | | | | | | | | 1 | | | | |
| * 83600200 | LIGHT POLE FOUNDATION, 24" DIAMETER | FOOT | 140 | | | | 105 | | | | | 35 | | | | |
| * 83800205 | BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE | EACH | 8 | | | | 6 | | | | | 2 | | | | |
| * 84200500 | REMOVAL OF LIGHTING UNIT, SALVAGE | EACH | 4 | | | | 4 | | | | | | | | | |
| * 84200804 | REMOVAL OF POLE FOUNDATION | EACH | 4 | | | | 4 | | | | | | | | | |
| | | | | | | | | | | | | | | | | * SPECIALTY ITEM |

MODEL: Default
 FILE NAME: p:\w\dot-cw-bentley.com\FWINDOT\Documents\DOT Office\District 1\Projects\142713\CADD\Drawings\142713-sh-500.dgn

| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowski | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 IL ROUTE 50 AT STEGER ROAD**

SCALE: - SHEET 9 OF 13 SHEETS STA. - TO STA. -

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 12 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES URBAN | CONSTRUCTION TYPE CODE | | | | | | | | | | | | |
|-----------------------|--|------|------------------------|--|--|---|---|--|--|---|---|--|--|--|--|------------------|
| CODE NO | ITEM | UNIT | | 0004 ROADWAY 90% HSIP (FED) 10% STATE COOK COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) COOK COUNTY | 0021 EVP 100% TOLL CREDIT (FED) COOK COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) COOK COUNTY | 0004 ROADWAY 90% HSIP (FED) 10% STATE WILL COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) WILL COUNTY | 0021 EVP 100% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 80% (FED) 20% UNIVERSITY PARK WILL COUNTY | | | | |
| * 87301225 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 | FOOT | 271 | | 135.5 | | | | 135.5 | | | | | | | |
| | 3C | | | | | | | | | | | | | | | |
| * 87301245 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 | FOOT | 2316 | | 1158 | | | | 1158 | | | | | | | |
| | 5C | | | | | | | | | | | | | | | |
| * 87301255 | ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 | FOOT | 671 | | 335.5 | | | | 335.5 | | | | | | | |
| | 7C | | | | | | | | | | | | | | | |
| * 87301305 | ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. | FOOT | 1741 | | 870.5 | | | | 870.5 | | | | | | | |
| | 14 1 PAIR | | | | | | | | | | | | | | | |
| * 87301805 | ELECTRIC CABLE IN CONDUIT, SERVICE, NO. | FOOT | 60 | | 30 | | | | 30 | | | | | | | |
| | 6 2 C | | | | | | | | | | | | | | | |
| * 87301900 | ELECTRIC CABLE IN CONDUIT, EQUIPMENT | FOOT | 617 | | 308.5 | | | | 308.5 | | | | | | | |
| | GROUNDING CONDUCTOR, NO. 6 1C | | | | | | | | | | | | | | | |
| * 87502500 | TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 | EACH | 4 | | 2 | | | | 2 | | | | | | | |
| | FT. | | | | | | | | | | | | | | | |
| * 87700200 | STEEL MAST ARM ASSEMBLY AND POLE, 32 FT. | EACH | 1 | | | | | | 1 | | | | | | | |
| * 87700220 | STEEL MAST ARM ASSEMBLY AND POLE, 36 FT. | EACH | 1 | | 1 | | | | | | | | | | | |
| * 87700230 | STEEL MAST ARM ASSEMBLY AND POLE, 38 FT. | EACH | 1 | | 1 | | | | | | | | | | | |
| * 87700240 | STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. | EACH | 1 | | | | | | 1 | | | | | | | |
| | | | | | | | | | | | | | | | | |
| | | | | | | | | | | | | | | | | * SPECIALTY ITEM |

MODEL: Default
 FILE NAME: p:\w\dot-cw\benley.com\p\INDOT\Documents\DOT Office\District 1\Projects\142713\CADD\Drawings\142713-sh-500.dgn

| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowski | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL ROUTE 50 AT STEGER ROAD

SCALE: - SHEET 10 OF 13 SHEETS STA. - TO STA. -

| | | | | |
|---------------------------|------------|-----------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK/WILL | 87 | 13 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES URBAN | CONSTRUCTION TYPE CODE | | | | | | | | | | | | |
|-----------------------|--|------|------------------------|--|--|---|---|--|--|---|---|--|--|--|--|-----------------|
| CODE NO | ITEM | UNIT | | 0004 ROADWAY 90% HSIP (FED) 10% STATE COOK COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) COOK COUNTY | 0021 EVP 100% TOLL CREDIT (FED) COOK COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) COOK COUNTY | 0004 ROADWAY 90% HSIP (FED) 10% STATE WILL COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) WILL COUNTY | 0021 EVP 100% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 80% (FED) 20% UNIVERSITY PARK WILL COUNTY | | | | |
| * 87800100 | CONCRETE FOUNDATION, TYPE A | FOOT | 20 | | 10 | | | | | | 10 | | | | | |
| * 87800150 | CONCRETE FOUNDATION, TYPE C | FOOT | 4 | | 2 | | | | | | 2 | | | | | |
| * 87800415 | CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 46 | | 23 | | | | | | 23 | | | | | |
| * 88030020 | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED | EACH | 8 | | 4 | | | | | | 4 | | | | | |
| * 88030050 | SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 6 | | 3 | | | | | | 3 | | | | | |
| * 88030100 | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 | | 1 | | | | | | 1 | | | | | |
| * 88030110 | SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED | EACH | 2 | | 1 | | | | | | 1 | | | | | |
| * 88200410 | TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 10 | | 5 | | | | | | 5 | | | | | |
| * 88500100 | INDUCTIVE LOOP DETECTOR | EACH | 3 | | 3 | | | | | | | | | | | |
| * 88600100 | DETECTOR LOOP, TYPE I | FOOT | 361 | | 180.5 | | | | | | 180.5 | | | | | |
| * 88700200 | LIGHT DETECTOR | EACH | 2 | | | 1 | | | | | 1 | | | | | |
| * 88700300 | LIGHT DETECTOR AMPLIFIER | EACH | 1 | | | 1 | | | | | | | | | | |
| | | | | | | | | | | | | | | | | *SPECIALTY ITEM |

MODEL: Default
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 PROJECT: 11010201\11010201.dwg
 USER: rrostowski

| | | |
|------------------------------|------------------|-----------|
| USER NAME = rrostowski | DESIGNED - RR | REVISED - |
| DRAWN - RR | REVISIONS - | |
| PLOT SCALE = 100.0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
IL ROUTE 50 AT STEGER ROAD

SCALE: - SHEET 11 OF 13 SHEETS STA. - TO STA. -

| | | | | |
|---------------------------|------------|-----------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK/WILL | 87 | 14 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

| SUMMARY OF QUANTITIES | | | TOTAL QUANTITIES URBAN | CONSTRUCTION TYPE CODE | | | | | | | | | | | | |
|-----------------------|--|--------|------------------------|--|--|---|---|--|--|---|---|--|--|--|--|------------------|
| CODE NO | ITEM | UNIT | | 0004 ROADWAY 90% HSIP (FED) 10% STATE COOK COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) COOK COUNTY | 0021 EVP 100% TOLL CREDIT (FED) COOK COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) COOK COUNTY | 0004 ROADWAY 90% HSIP (FED) 10% STATE WILL COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) WILL COUNTY | 0021 EVP 100% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 80% (FED) 20% UNIVERSITY PARK WILL COUNTY | | | | |
| K0029624 | WEED CONTROL, TEASEL | GALLON | 0.6 | 0.3 | | | | 0.3 | | | | | | | | |
| * X0324085 | EMERGENCY VEHICLE PRIORITY SYSTEM LINE | FOOT | 271 | | | 135.5 | | | | 135.5 | | | | | | |
| | SENSOR CABLE, NO. 20 3/C | | | | | | | | | | | | | | | |
| * X0326654 | ORNAMENTAL LIGHT UNIT, COMPLETE | EACH | 6 | | | | | | | | | 6 | | | | |
| * X1400107 | FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET | EACH | 1 | | 1 | | | | | | | | | | | |
| * X1400150 | SERVICE INSTALLATION, GROUND MOUNTED, METERED | EACH | 1 | | 1 | | | | | | | | | | | |
| * X1400201 | RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR | EACH | 2 | | 1 | | | | | | 1 | | | | | |
| X2020110 | GRADING AND SHAPING SHOULDERS | UNIT | 2 | 1 | | | | 1 | | | | | | | | |
| X2502014 | SEEDING, CLASS 4A (MODIFIED) | ACRE | 0.188 | 0.094 | | | | 0.094 | | | | | | | | |
| X2502024 | SEEDING, CLASS 4B (MODIFIED) | ACRE | 0.026 | 0.013 | | | | 0.013 | | | | | | | | |
| X4022000 | TEMPORARY ACCESS (COMMERCIAL ENTRANCE) | EACH | 1 | 1 | | | | | | | | | | | | |
| X7010216 | TRAFFIC CONTROL AND PROTECTION, (SPECIAL) | L SUM | 1 | 0.5 | | | | 0.5 | | | | | | | | |
| X7030005 | TEMPORARY PAVEMENT MARKING REMOVAL | SQ FT | 4074 | 2037 | | | | 2037 | | | | | | | | |
| | | | | | | | | | | | | | | | | * SPECIALTY ITEM |

MODEL: Default
 FILE: M:\MTC_Plan\Jldet-pw-bentley.com_P\INDOT\Documents\DOT Office\District_1\Projects\142713\CADD\Drawings\142713-sh-500.dgn

| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowskir | DESIGNED - RR | REVISED - |
| DRAWN - RR | CHECKED - LP | REVISED - |
| PLOT SCALE = 100.0000' / in. | DATE - 8/13/2021 | REVISED - |
| PLOT DATE = 8/16/2021 | | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
IL ROUTE 50 AT STEGER ROAD**

SCALE: - SHEET 12 OF 13 SHEETS STA. - TO STA. -

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------------|-----------|
| 350 | 101W-A(17) | COOK/WILL | 87 | 15 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

| SUMMARY OF QUANTITIES | | | | CONSTRUCTION TYPE CODE | | | | | | | | | | | |
|-----------------------|--|-------|------------------|--|--|---|---|--|--|---|---|--|--|--|--|
| CODE NO | ITEM | UNIT | TOTAL QUANTITIES | 0004 ROADWAY 90% HSIP (FED) 10% STATE COOK COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) COOK COUNTY | 0021 EVP 100% TOLL CREDIT (FED) COOK COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) COOK COUNTY | 0004 ROADWAY 90% HSIP (FED) 10% STATE WILL COUNTY | 0021 SIGNAL 90% HSIP (FED) 7.5% STATE 2.5% TOLL CREDIT (FED) WILL COUNTY | 0021 EVP 100% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 90% HSIP (FED) 10% TOLL CREDIT (FED) WILL COUNTY | 0021 LIGHTING 100% TOLL CREDIT (FED) WILL COUNTY | | | |
| X7040125 | PINNING TEMPORARY CONCRETE BARRIER | EACH | 34 | 17 | | | | 17 | | | | | | | |
| * X8620200 | UNINTERRUPTABLE POWER SUPPLY, SPECIAL | EACH | 1 | | 1 | | | | | | | | | | |
| Z0013798 | CONSTRUCTION LAYOUT | L SUM | 1 | 0.5 | | | | 0.5 | | | | | | | |
| Z0030850 | TEMPORARY INFORMATION SIGNING | SQ FT | 78 | 39 | | | | 39 | | | | | | | |
| * Z0064800 | SELECTIVE CLEARING | UNIT | 2 | 2 | | | | | | | | | | | |
| Ø Z0076600 | TRAINEES | HOURS | 500 | 500 | | | | | | | | | | | |
| Ø Z0076604 | TRAINEES - TRAINING PROGRAM GRADUATE | HOURS | 500 | 500 | | | | | | | | | | | |
| 70300260 | TEMPORARY PAVEMENT MARKING - LINE 12" | FOOT | 68 | 34 | | | | 34 | | | | | | | |
| 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" | FOOT | 68 | 34 | | | | 34 | | | | | | | |
| 81603090 | UNIT DUCT, 600V, 3-1/C NO.4, 1/C NO.6 GROUND, (XLP-TYPE USE), 1 1/4" DIA. POLYETHYLENE | FOOT | 1781 | | | | 890.5 | | | | 890.5 | | | | |
| 81800300 | AERIAL CABLE 3-1/C NO.2, WITH MESSENGER WIRE | FOOT | 940 | | | | 470 | | | | 470 | | | | |
| 82110007 | LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G | EACH | 9 | | | | 7 | | | | 2 | | | | |
| 83050810 | LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM | FOOT | 7 | | | | 5 | | | | 2 | | | | |
| 83050910 | LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-15 FT. MAST ARMS | EACH | 1 | | | | 1 | | | | | | | | |
| 83057355 | LIGHT POLE, WOOD, 60 FT. CLASS 4, WITH 15 FT. MAST ARM | EACH | 6 | | | | 2 | | | | 4 | | | | |
| 84100110 | REMOVAL OF TEMPORARY LIGHTING UNIT | EACH | 6 | | | | 2 | | | | 4 | | | | |
| X0327004 | TEMPORARY WOOD POLE, 60 FT., CLASS 4 | EACH | 1 | | | | | | | | 1 | | | | |
| X1400279 | REMOVAL OF TEMPORARY LIGHTING CONTROLLER, NO SALVAGE | EACH | 1 | | | | | | | | 1 | | | | |
| X8211008 | TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H | EACH | 6 | | | | 2 | | | | 4 | | | | |
| X8250060 | TEMPORARY LIGHTING CONTROLLER | EACH | 1 | | | | | | | | 1 | | | | |
| Z0033020 | LUMINAIRE SAFETY CABLE ASSEMBLY | EACH | 9 | | | | 7 | | | | 2 | | | | |

*SPECIALTY ITEM

Ø 0042

MODEL: Default
FILE: \\mafc-pw-backend\com-pw\DOT\Documents\DOT-Office\District-1\Projects\142713\CADD\Drawings\142713-sh-500.dgn

| | | |
|-------------------------------|------------------|-----------|
| USER NAME = rostkowskir | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100.0000 ' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|---|----------|--------------|------------------|
| SUMMARY OF QUANTITIES IL ROUTE 50 AT STEGER ROAD | | | |
| SCALE: - | SHEET 13 | OF 13 SHEETS | STA. - TO STA. - |

| | | | | |
|---------------------------|-----------------------|---------------------|--------------------|--------------------|
| F.A.P. RTE. 350 | SECTION 101W-A(17) | COUNTY COOK/WILL | TOTAL SHEETS 87 | SHEET NO. 16 |
| | | | | CONTRACT NO. 62F87 |
| ILLINOIS FED. AID PROJECT | | | | |

EARTHWORK SCHEDULE

| LOCATION | | EARTH EXCAVATION | SUITABLE EARTH EXCAVATION | SUITABLE EARTH EXCAVATION ADJUSTED FOR SHRINKAGE | FILL | EARTHWORK BALANCE WASTE (+) SHORTAGE (-) |
|-----------------------------|------------|--|---------------------------|--|------------|--|
| FROM STATION | TO STATION | CUBIC YARD | CUBIC YARD | CUBIC YARD | CUBIC YARD | CUBIC YARD |
| (1) | (2) | (3) | (4) | (5) | (6) | (6) |
| IL ROUTE 50 (CICERO AVENUE) | | | | | | |
| 195+00 | 195+50 | 0 | 0 | 0 | 0 | 0 |
| 195+50 | 196+00 | 3 | 3 | 2 | 1 | 1 |
| 196+00 | 196+50 | 16 | 16 | 14 | 4 | 10 |
| 196+50 | 197+00 | 15 | 15 | 13 | 4 | 8 |
| 197+00 | 197+50 | 13 | 13 | 11 | 3 | 8 |
| 197+50 | 198+00 | 17 | 17 | 14 | 1 | 13 |
| 198+00 | 198+50 | 17 | 17 | 15 | 0 | 15 |
| 198+50 | 199+00 | 16 | 16 | 14 | 0 | 14 |
| 199+00 | 199+50 | 25 | 25 | 21 | 13 | 8 |
| 199+50 | 200+00 | (ACCOUNTED FOR IN STEGER ROAD EARTHWORK) | | | | |
| 200+00 | 200+50 | (ACCOUNTED FOR IN STEGER ROAD EARTHWORK) | | | | |
| 200+50 | 201+00 | 31 | 31 | 26 | 28 | -2 |
| 201+00 | 201+50 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | | 152 | 152 | 129 | 54 | 75 |
| STEGER ROAD | | | | | | |
| 597+00 | 597+50 | 0 | 0 | 0 | 0 | 0 |
| 597+50 | 598+00 | 1 | 1 | 1 | 0 | 1 |
| 598+00 | 598+50 | 14 | 14 | 12 | 2 | 10 |
| 598+50 | 599+00 | 28 | 28 | 24 | 6 | 18 |
| 599+00 | 599+50 | 73 | 73 | 62 | 75 | -13 |
| 599+50 | 600+00 | 17 | 17 | 14 | 71 | -57 |
| 600+00 | 600+50 | 111 | 111 | 94 | 0 | 94 |
| 600+50 | 601+00 | 97 | 97 | 83 | 1 | 82 |
| 601+00 | 601+50 | 0 | 0 | 0 | 0 | 0 |
| TOTAL | | 341 | 341 | 290 | 156 | 134 |

EARTHWORK NOTES:

1. STATION RANGE
2. VOLUME TO BE CUT
3. VOLUME TO BE CUT THAT IS NOT NON-SPECIAL WASTE THAT NEEDS TO BE DISPOSED OR UNDERCUT
4. VOLUME TO BE USED AS FILL AFTER ADJUSTING FOR A 15% SHRINKAGE FACTOR
5. VOLUME TO BE FILLED
6. COLUMN (4) MINUS COLUMN (5)

MODEL: Default
 FILE NAME: \\sulfur-cw-bentley.com\P1\DOT\Documents\DOT Office\District 3\Projects\142713\CADD\Drawings\142713-ent-ec-schedule.dgn

| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowsdr | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

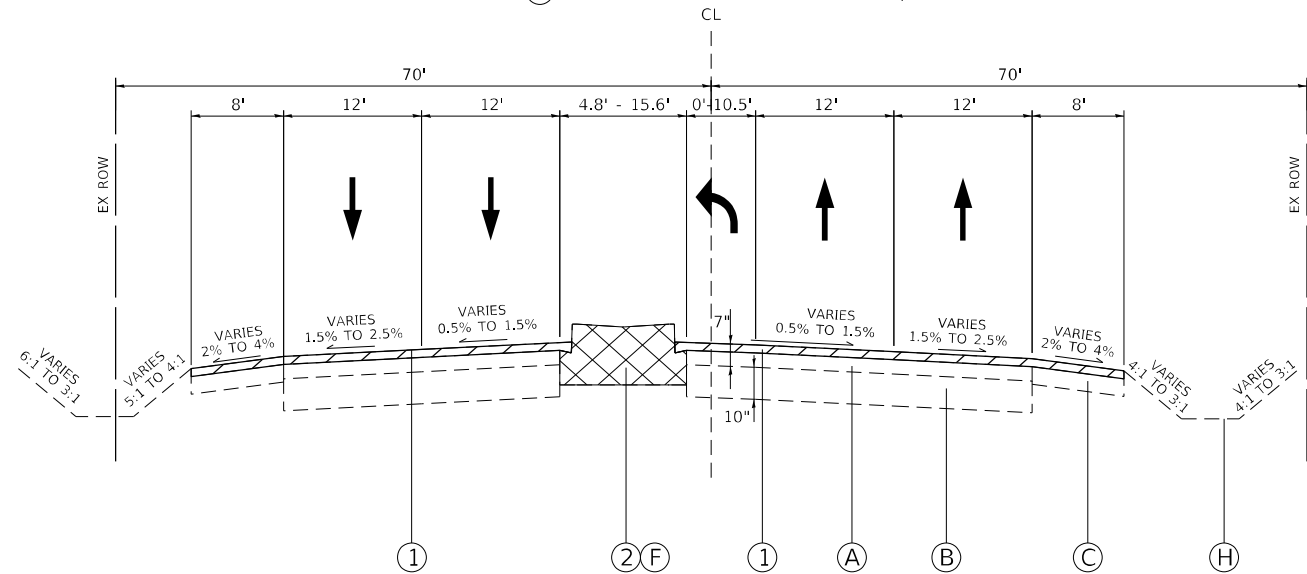
**EARTHWORK SCHEDULE
IL ROUTE 50 AT STEGER ROAD**

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

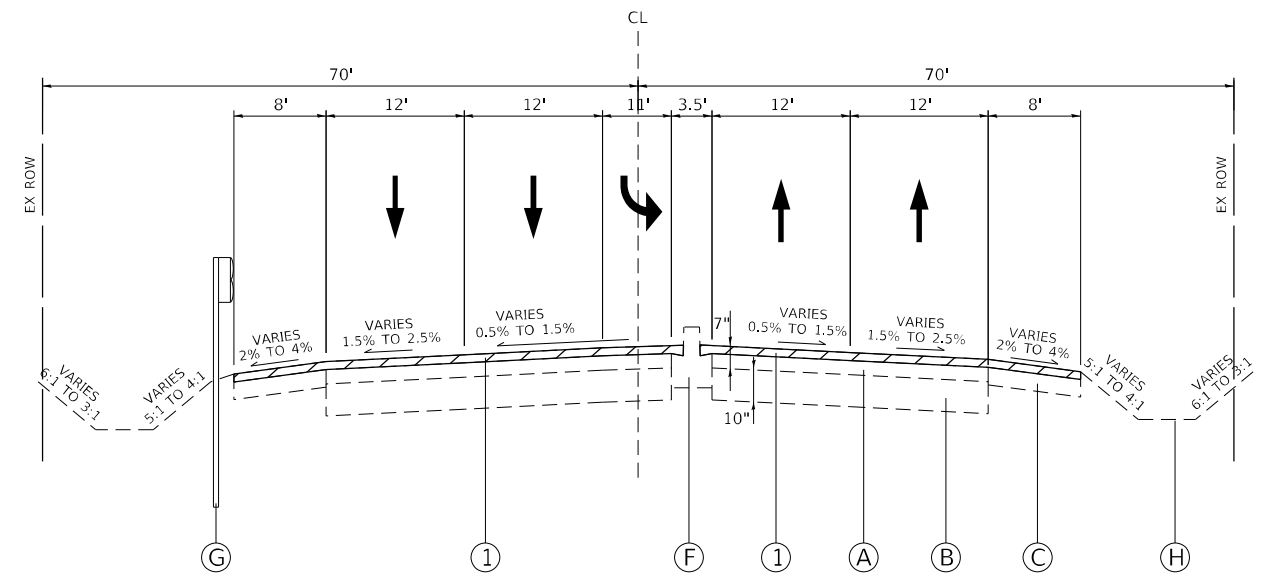
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 17 |
| CONTRACT NO. 62F87 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

LEGEND

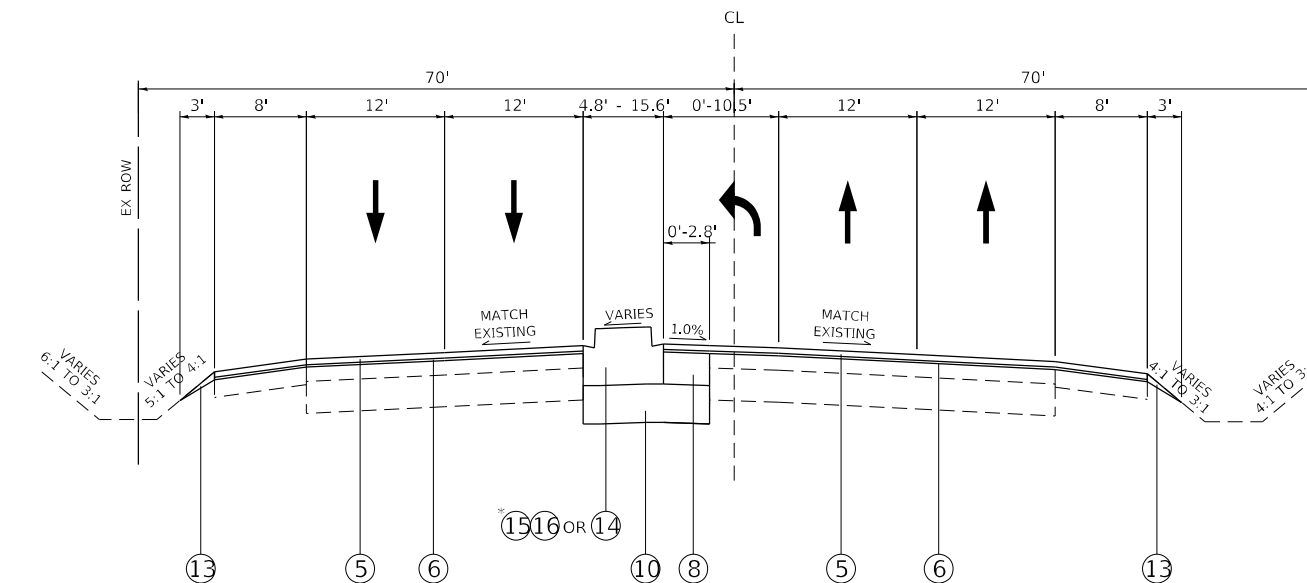
- (A) EXISTING HMA PAVEMENT
- (B) EXISTING PCC PAVEMENT, JOINTED
- (C) EXISTING HMA SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) EXISTING CURB AND GUTTER
- (F) EXISTING MEDIAN
- (G) EXISTING GUARDRAIL
- (H) EXISTING GROUND
- (1) PROPOSED HMA SURFACE REMOVAL, 2.5"
- (2) PROPOSED MEDIAN REMOVAL
- (3) PROPOSED PAVEMENT REMOVAL
- (4) PROPOSED PAVED SHOULDER REMOVAL
- (4A) PROPOSED REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- (5) PROPOSED POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1.75"
- (6) PROPOSED POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 0.75"
- (7) HMA BASE COURSE WIDENING, 10"
(FOR PAVEMENT WIDENING LESS THAN OR EQUAL TO 6' IN WIDTH)
OR HMA BASE COURSE, 10"
(FOR PAVEMENT WIDENING GREATER THAN 6' IN WIDTH)
- (8) PROPOSED PCC BASE COURSE, 10"
- (9) PROPOSED HMA SHOULDER, 8"
- (10) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12" (SQYD)
- (11) PROPOSED SUBBASE GRANULAR MATERIAL, TYPE C, 4.5"
- (12) PROPOSED GRADING AND SHAPING SHOULDERS
- (13) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (14) PROPOSED CONCRETE MEDIAN, TYPE SB-6.12 (MONOLITHIC)
- (15) PROPOSED LANDSCAPED MEDIAN
- (16) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (17) PROPOSED PIPE UNDERDRAIN, TYPE 2
- (18) PROPOSED TOPSOIL EXCAVATION AND PLACEMENT, 12"
WITH PROPOSED TOPSOIL FURNISH AND PLACEMENT, 4" ON TOP
(SEE DETAIL ON LANDSCAPING SHEET FOR MORE INFORMATION)
- (19) PROPOSED GUARDRAIL



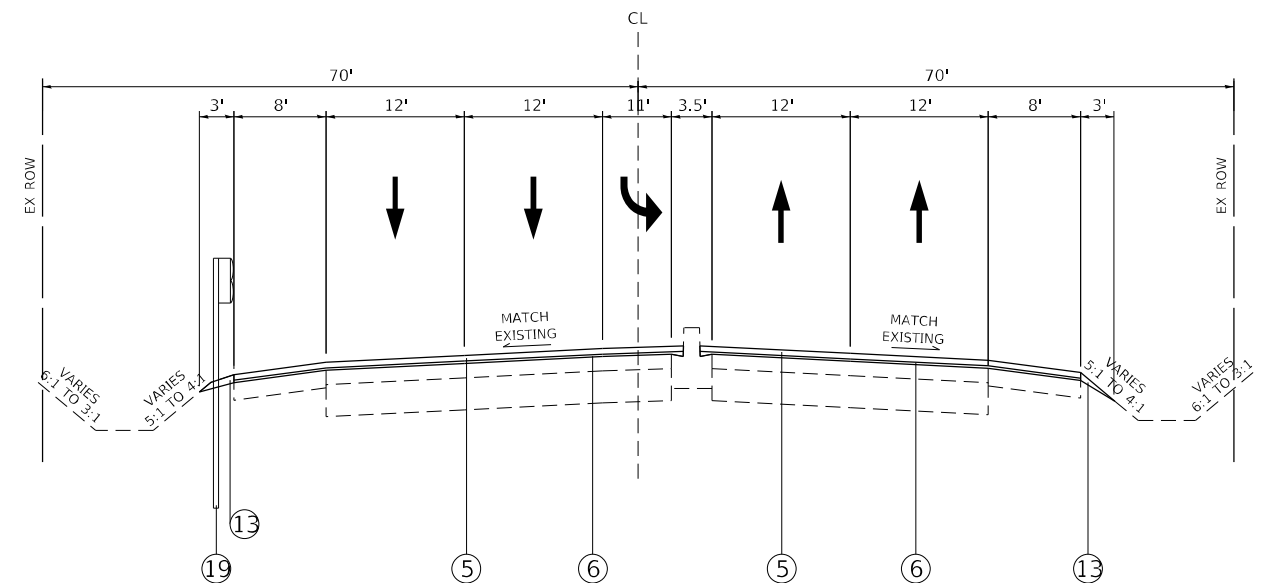
IL ROUTE 50
EXISTING TYPICAL SECTION
195+75 TO 200+00



IL ROUTE 50
EXISTING TYPICAL SECTION
200+00 TO 201+00



IL ROUTE 50
PROPOSED TYPICAL SECTION
195+75 TO 200+00



IL ROUTE 50
PROPOSED TYPICAL SECTION
200+00 TO 201+00

*SEE LANDSCAPING PLANS FOR LIMITS AND DETAILS OF LANDSCAPED MEDIAN

| | | |
|-----------------------------|------------------|-----------|
| USER NAME = rostkowsdr | DESIGNED - RR | REVISED - |
| DRAWN - RR | REVISED - | |
| PLOT SCALE = 100,000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| TYPICAL SECTIONS | | |
|----------------------------|---------------------|------------------|
| IL ROUTE 50 AT STEGER ROAD | | |
| SCALE: - | SHEET 2 OF 3 SHEETS | STA. - TO STA. - |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 19 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

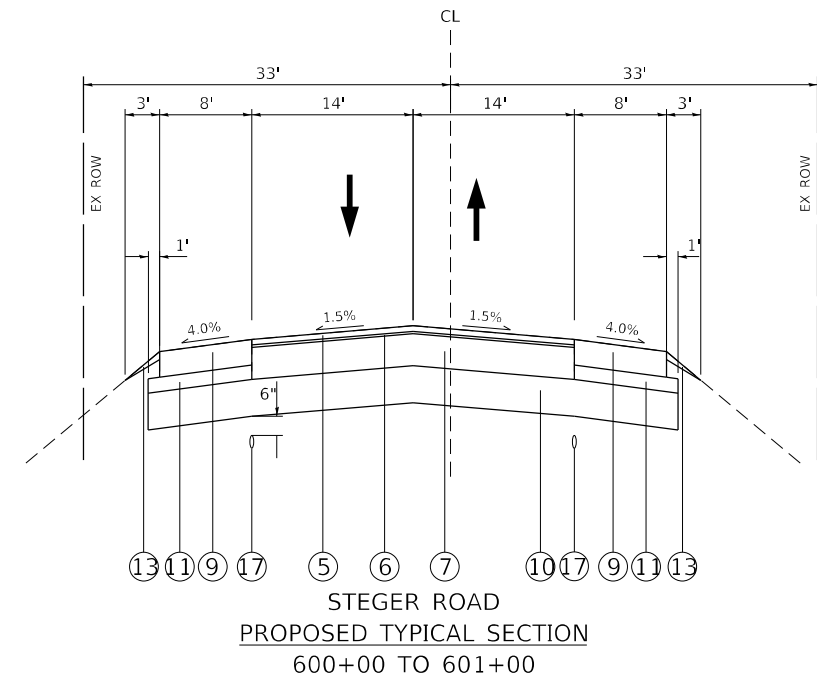
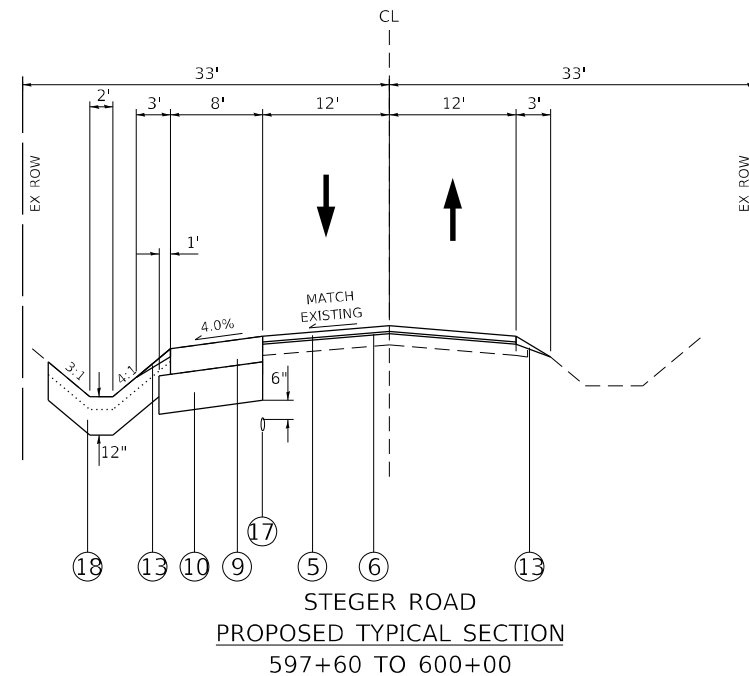
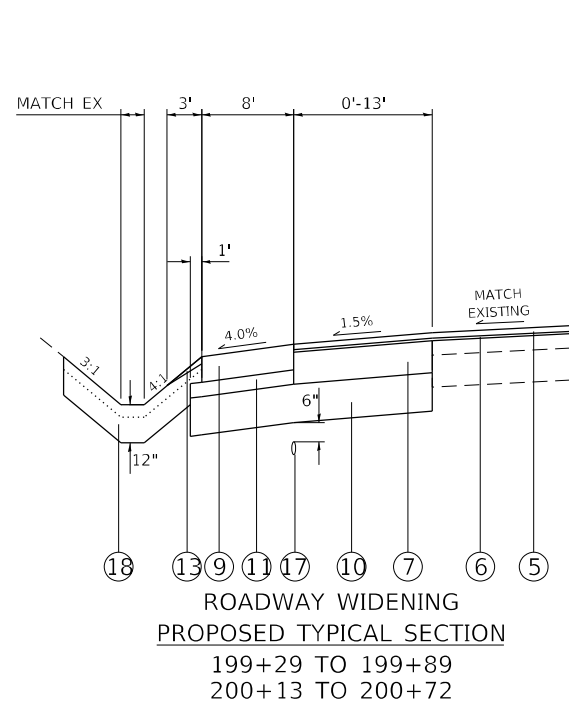
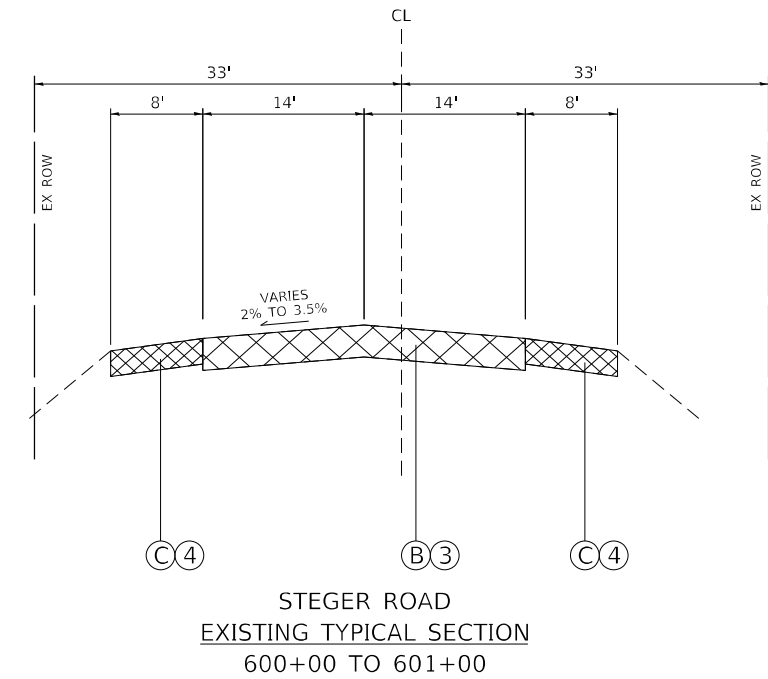
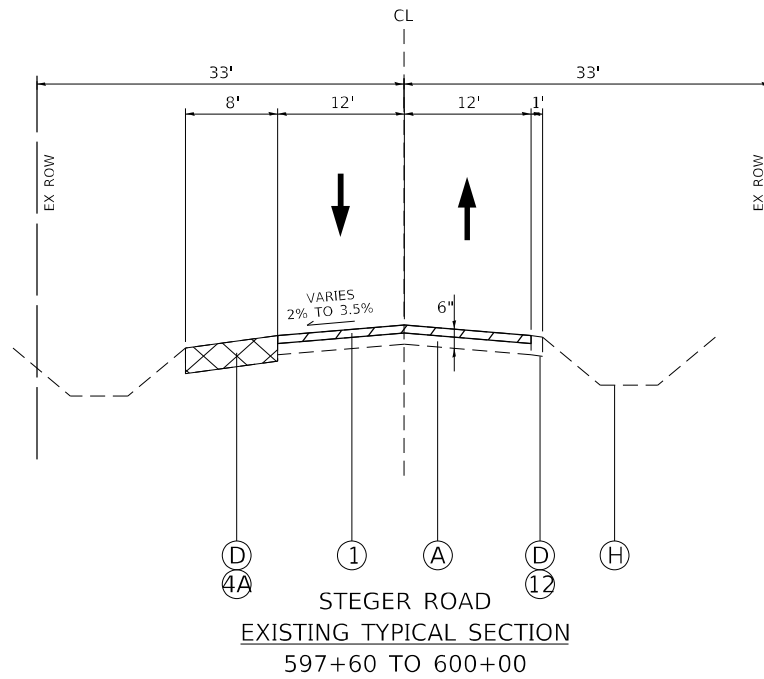
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LEGEND

- (A) EXISTING HMA PAVEMENT
- (B) EXISTING PCC PAVEMENT, JOINTED
- (C) EXISTING HMA SHOULDER
- (D) EXISTING AGGREGATE SHOULDER
- (E) EXISTING CURB AND GUTTER
- (F) EXISTING MEDIAN
- (G) EXISTING GUARDRAIL
- (H) EXISTING GROUND

- (1) PROPOSED HMA SURFACE REMOVAL, 2.5"
- (2) PROPOSED MEDIAN REMOVAL
- (3) PROPOSED PAVEMENT REMOVAL
- (4) PROPOSED PAVED SHOULDER REMOVAL
- (4A) PROPOSED REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
- (5) PROPOSED POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1.75"
- (6) PROPOSED POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 0.75"
- (7) HMA BASE COURSE WIDENING, 10"
(FOR PAVEMENT WIDENING LESS THAN OR EQUAL TO 6' IN WIDTH)
OR HMA BASE COURSE, 10"
(FOR PAVEMENT WIDENING GREATER THAN 6' IN WIDTH)
- (8) PROPOSED PCC BASE COURSE, 10"
- (9) PROPOSED HMA SHOULDER, 8"

- (10) PROPOSED AGGREGATE SUBGRADE IMPROVEMENT 12" (SQYD)
- (11) PROPOSED SUBBASE GRANULAR MATERIAL, TYPE C, 4.5"
- (12) PROPOSED GRADING AND SHAPING SHOULDERS
- (13) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (14) PROPOSED CONCRETE MEDIAN, TYPE SB-6.12 (MONOLITHIC)
- (15) PROPOSED LANDSCAPED MEDIAN
- (16) PROPOSED COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- (17) PROPOSED PIPE UNDERDRAIN, TYPE 2
- (18) PROPOSED TOPSOIL EXCAVATION AND PLACEMENT, 12"
WITH PROPOSED TOPSOIL FURNISH AND PLACEMENT, 4" ON TOP
(SEE DETAIL ON LANDSCAPING SHEET FOR MORE INFORMATION)
- (19) PROPOSED GUARDRAIL



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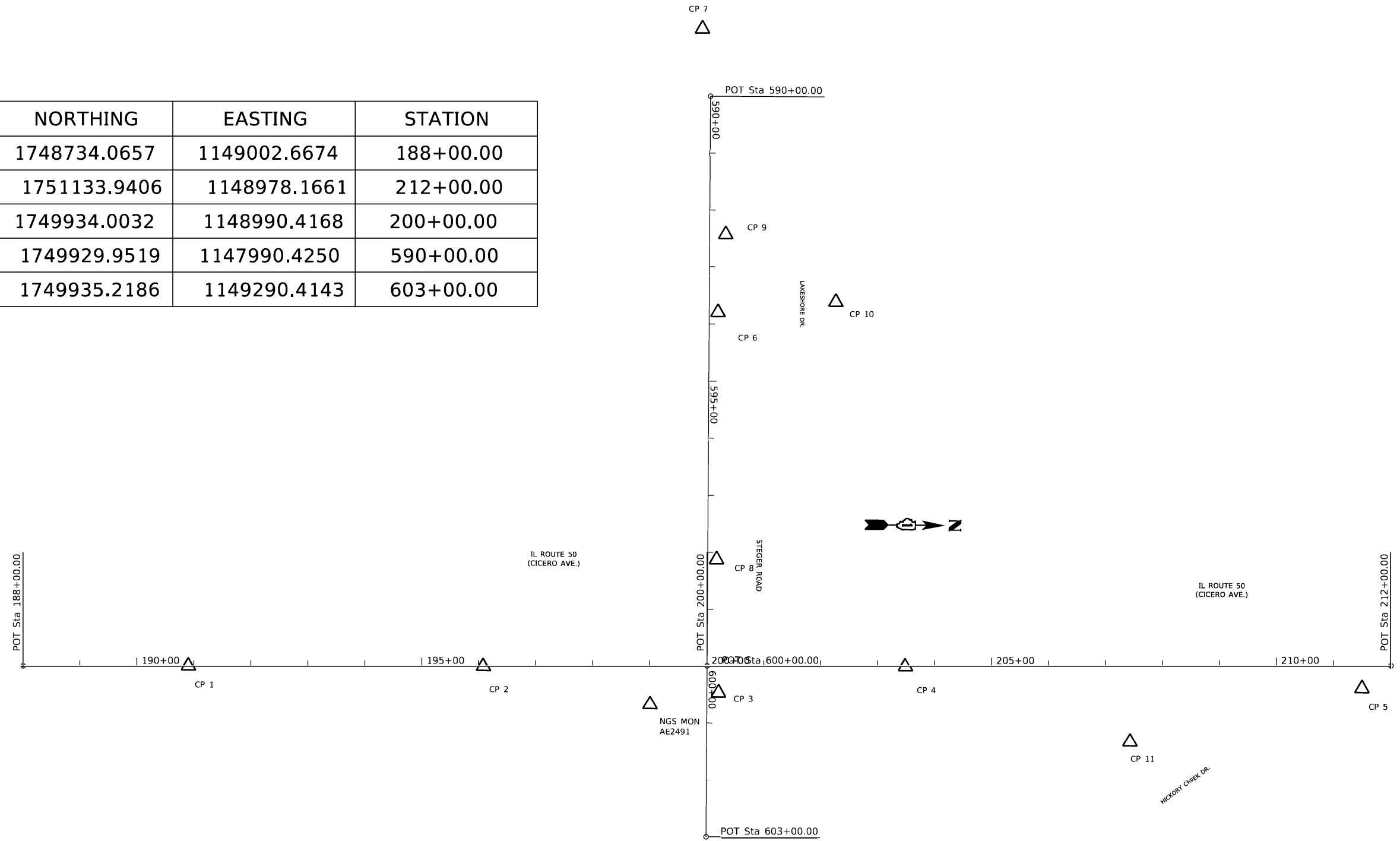
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| USER NAME = rostkowsdr | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|--|---------|-------------|------------------|
| TYPICAL SECTIONS IL ROUTE 50 AT STEGER ROAD | | | |
| SCALE: - | SHEET 3 | OF 3 SHEETS | STA. - TO STA. - |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 20 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

| ROUTE | POINT | NORTHING | EASTING | STATION |
|----------------------------|-------|--------------|--------------|-----------|
| IL ROUTE 50 CICERO AVE. | 100 | 1748734.0657 | 1149002.6674 | 188+00.00 |
| | 101 | 1751133.9406 | 1148978.1661 | 212+00.00 |
| | 104 | 1749934.0032 | 1148990.4168 | 200+00.00 |
| STEGER RD. | 102 | 1749929.9519 | 1147990.4250 | 590+00.00 |
| | 103 | 1749935.2186 | 1149290.4143 | 603+00.00 |



BENCHMARK #1

ELEV. = 744.51

NGS MON AE2491 - TOP OF STEEL ROD INSIDE SLEEVE W/CAST IRON CAP. LOCATED 100' ± S & 67' ± E OF ϕ - ϕ INT OF STEGER AND CICERO

BENCHMARK #2

ELEV. = 746.25

NE BOLT ON 2ND HYDRANT S OF STEGER RD. ON E SIDE OF CICERO AVE.

BENCHMARK #3

ELEV. = 743.59

NW BOLT OF LP @ NEX OF CICERO AVE. & HICKORY CREEK DR.

BENCHMARK #4

ELEV. = 747.05

NE BOLT ON HYDRANT @ NWX OF STEGER RD & LAKESHORE DR.

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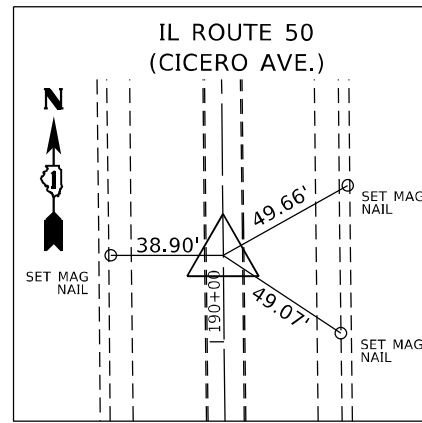
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|------------------------------|------------|-----------|
| USER NAME = rostkowski | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 200.0000' / in. | CHECKED - | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ALIGNMENTS, TIES AND BENCHMARKS
IL RTE. 50 (CICERO AVE.) AT STEGER RD.**

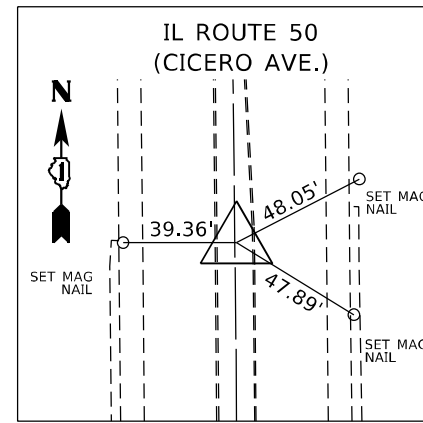
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-------------|--------------|-----------|
| 350 | 101W-N(17) | COOK / WILL | 87 | 21 |
| CONTRACT NO. 62F87 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



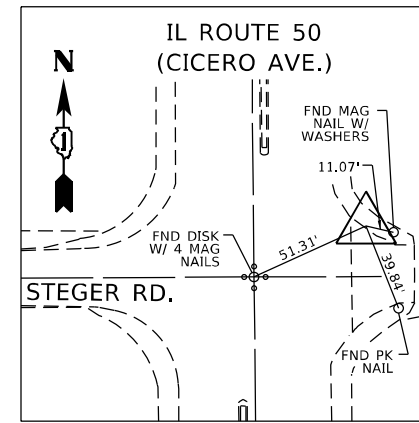
CONTROL POINT #1

SET IN CONCRETE MEDIAN
 STA. 190+90.09, 0.3520 L
 N=1749024.1320
 E=1148999.3540
 ELEV.=749.7470



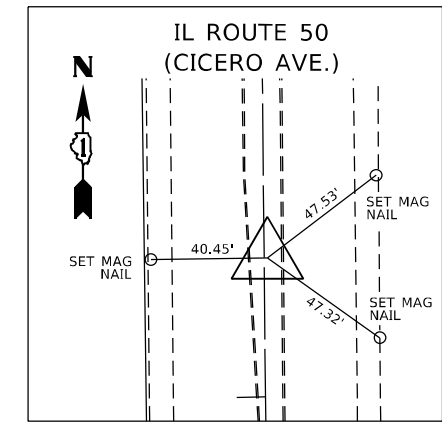
CONTROL POINT #2

SET IN CONCRETE MEDIAN
 STA. 196+07.63, 0.5736 R
 N=1749541.6630
 E=1148994.9960
 ELEV.=748.4520



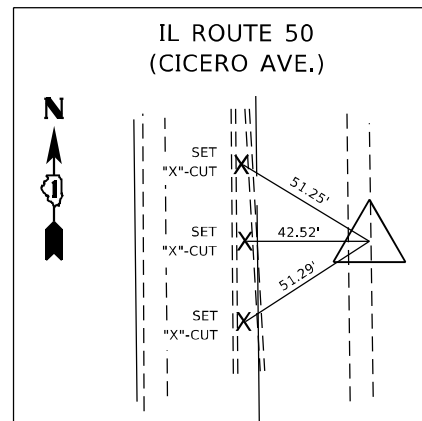
CONTROL POINT #3

SET IN BITUMINOUS SURFACE
 ON NORTH SIDE OF DRIVEWAY
 STA. 200+20.77, 46.9167 R
 N=1749955.2540
 E=1149037.1190
 ELEV.=746.5390



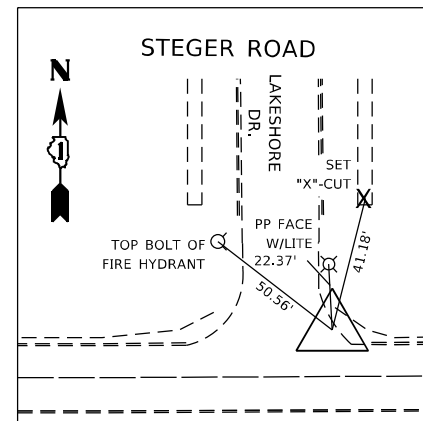
CONTROL POINT #4

SET IN CONCRETE MEDIAN
 STA. 203+48.24, 1.1074 R
 N=1750282.2400
 E=1148987.9690
 ELEV.=746.7200



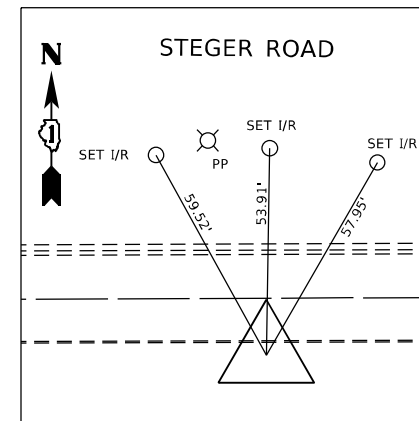
CONTROL POINT #5

SET IN SHOULDER
 STA. 211+49.13, 38.9066 R
 N=1751083.4680
 E=1149017.5900
 ELEV.=740.5900



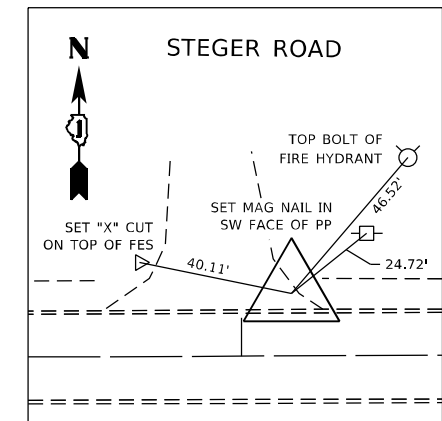
CONTROL POINT #6

SET IN ROADWAY
 STA. 593+79.41, 16.1451 L
 N=1749947.6340
 E=1148369.7700
 ELEV.=746.5760



CONTROL POINT #7

SET CP 7
 STA. OFF CHAIN
 N=1749914.6550
 E=1147872.9510
 ELEV.=747.3360



CONTROL POINT #8

SET IN ENTRANCE
 STA. 598+13.08, 16.2682 L
 N=1749949.5140
 E=1148803.4320
 ELEV.=747.3460

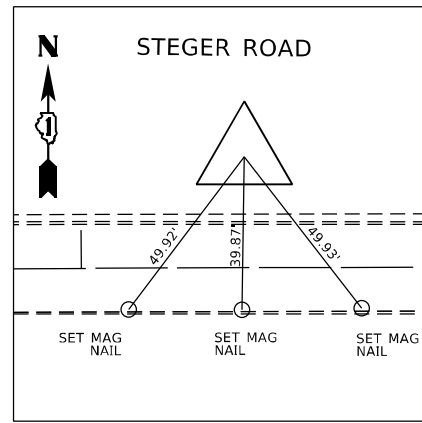
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| | | |
|------------------------------|------------|-----------|
| USER NAME = rostkowski | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 200,0000' / in. | CHECKED - | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

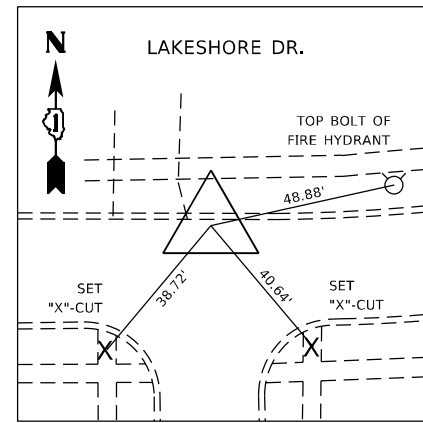
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|--|-------|-----------|--------------|
| ALIGNMENTS, TIES AND BENCHMARKS | | | |
| IL RTE. 50 (CICERO AVE.) AT STEGER RD. | | | |
| SCALE: NONE | SHEET | OF SHEETS | STA. TO STA. |

| | | | | |
|-------------|------------|------------------|--------------|--------------------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK / WILL | 87 | 22 |
| | | | | CONTRACT NO. 62F87 |
| ILLINOIS | | FED. AID PROJECT | | |



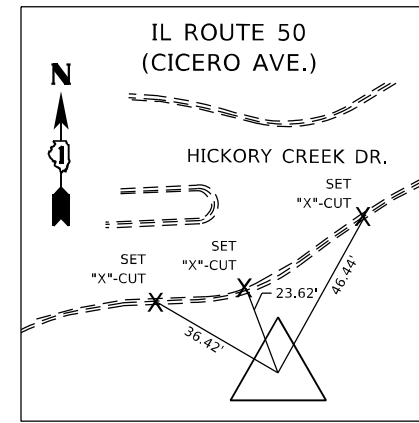
CONTROL POINT #9

SET CP 9
 STA. 592+42.58, 28.9116 L
 N=1749959.8460
 E=1148232.8890
 ELEV.=744.0500



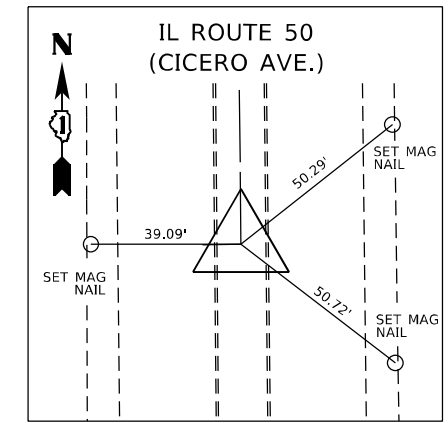
CONTROL POINT #10

SET IN ROADWAY
 STA. 593+60.22, 222.9446 L
 N=1750154.3540
 E=1148349.7390
 ELEV.=743.3940



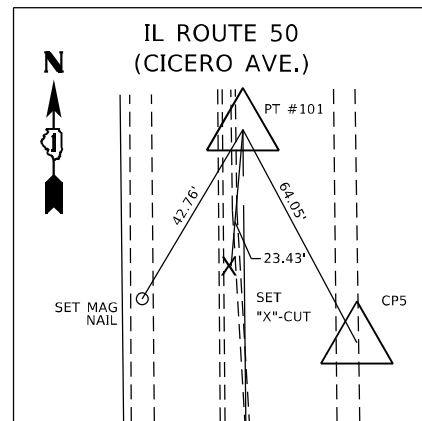
CONTROL POINT #11

SET CP 11
 STA. 207+42.04, 32.9175 R
 N=1750677.3610
 E=1149115.7520
 ELEV.=742.7010



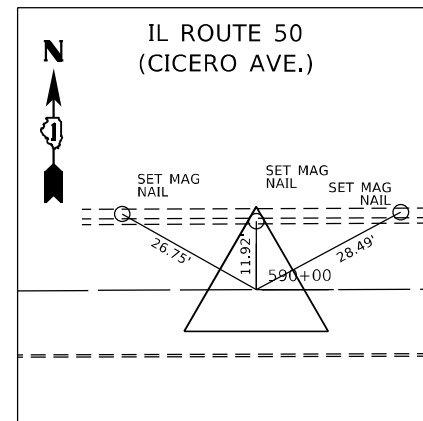
POINT #100

SET IN CONCRETE MEDIAN
 STA. 188+00.00
 N=1748734.0657
 E=1149002.6674
 ELEV.=750.0000



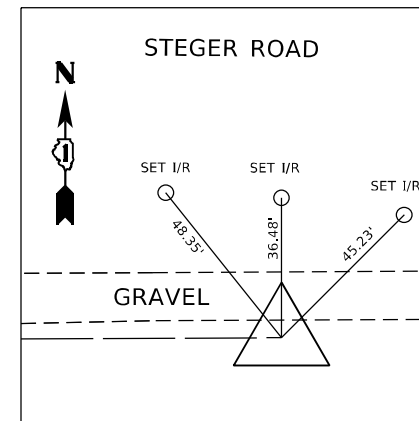
POINT #101

SET IN ROADWAY
 STA. 212+00.00
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 E=1148978.1661
 ELEV.=750.0000



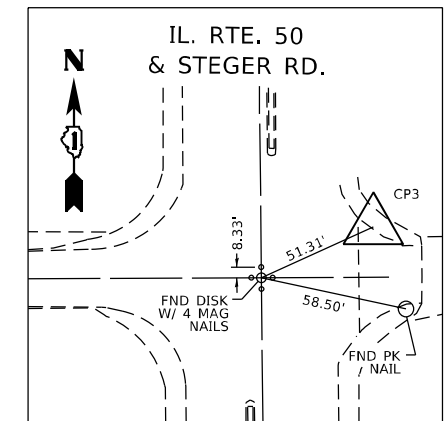
POINT #102

SET IN ROADWAY
 STA. 590+00.00
 N=1749929.9519
 E=1147990.4250
 ELEV.=750.0000



POINT #103

SET IN ROADWAY
 STA. 603+00.00
 N=1749935.2186
 E=1149290.4143
 ELEV.=750.0000



POINT #104

FOUND DISK W/ 4 MAG NAILS
 CL - CL STEGER RD. & IL 50
 STA. 200+00.00
 N=1749934.0032
 E=1148990.4168
 ELEV.=750.0000

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| | | |
|------------------------------|------------|-----------|
| USER NAME = rostkowski | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 200,0000' / in. | CHECKED - | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

| | | | |
|--|-------|-----------|--------------|
| ALIGNMENTS, TIES AND BENCHMARKS | | | |
| IL RTE. 50 (CICERO AVE.) AT STEGER RD. | | | |
| SCALE: NONE | SHEET | OF SHEETS | STA. TO STA. |

| | | | | |
|---------------------------|------------|-------------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK / WILL | 87 | 23 |
| CONTRACT NO. 62F87 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

SUGGESTED SEQUENCE OF CONSTRUCTION

STAGE 1

ESTABLISH TRAFFIC CONTROL TO ALLOW FOR WORK ON IL RTE 50 SOUTH MEDIAN. REMOVE EXISTING IL RTE 50 MEDIAN. WIDEN THE LEFT TURN LANE ON SOUTH LEG OF IL RTE 50. RECONSTRUCT MEDIAN.

STAGE 2

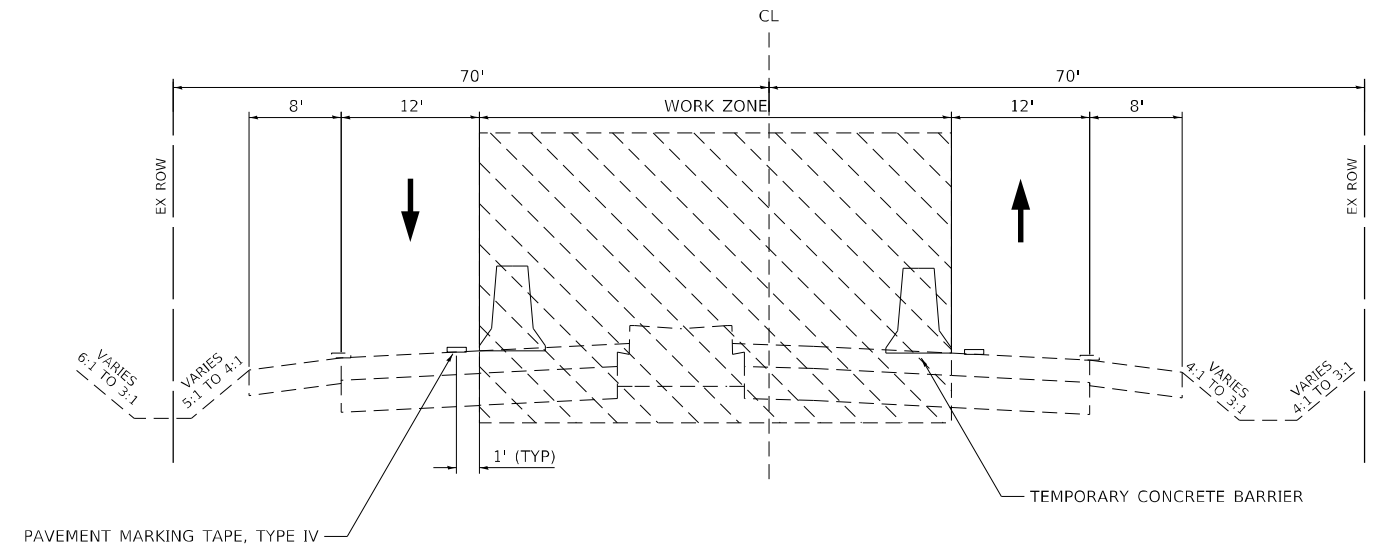
ESTABLISH TRAFFIC CONTROL TO ALLOW FOR WORK ON NW QUADRANT OF PROJECT. REMOVE CONFLICTING EXISTING AGGREGATE SHOULDERS. CONSTRUCT PAVEMENT WIDENING AND HMA SHOULDER. GRADE AREA.

STAGE 3

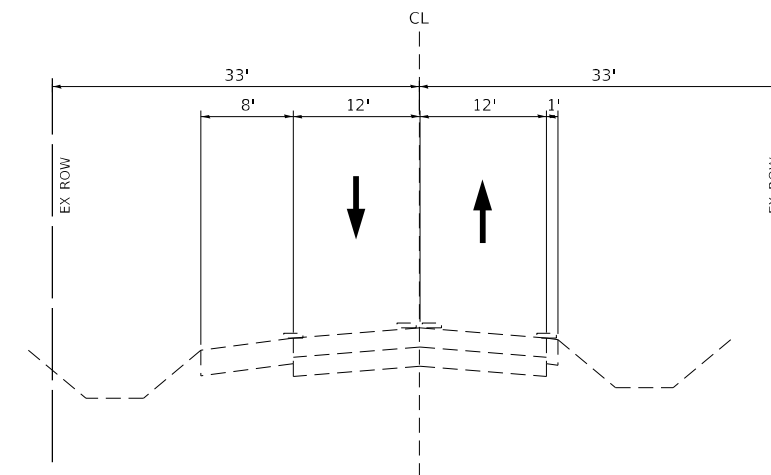
ESTABLISH TRAFFIC CONTROL TO ALLOW FOR WORK ON SW QUADRANT OF PROJECT AND ON E LEG OF STEGER ROAD. REMOVE CONFLICTING EXISTING AGGREGATE SHOULDERS. CONSTRUCT PAVEMENT WIDENING AND HMA SHOULDER. GRADE AREA. REMOVE AND RECONSTRUCT EXISTING PAVEMENT ON E LEG OF STEGER ROAD. ACCESS TO EAST STEGER ROAD IS TO BE MAINTAINED.

STAGE 4

RESURFACE IL RTE 50 AND STEGER ROAD. COMPLETE TRAFFIC SIGNAL MODERNIZATION WORK. COMPLETE LIGHTING WORK. WORK TO BE COMPLETED WITH USE OF DAILY LANE CLOSURES AND TYPICAL IDOT HIGHWAY STANDARDS AND DETAILS.



IL ROUTE 50
STAGE 1
195+75 TO 200+00



STEGER ROAD
STAGE 1
597+60 TO 600+00

NOTE:
ACCESS TO EAST STEGER ROAD IS TO BE MAINTAINED DURING ALL STAGES

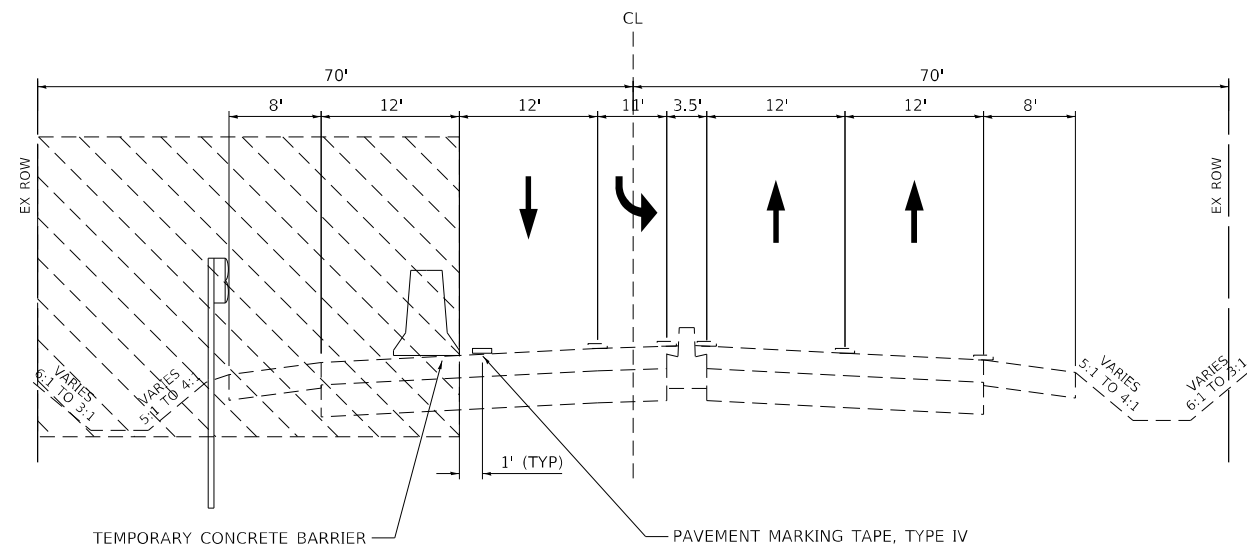
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| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

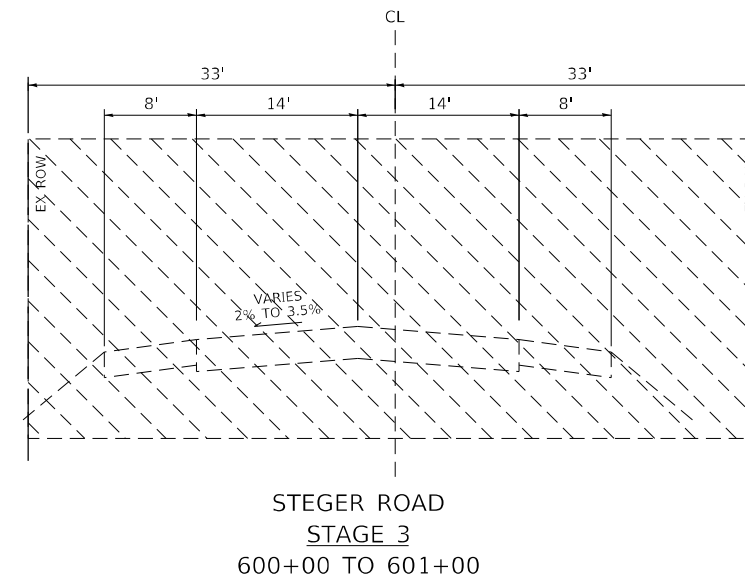
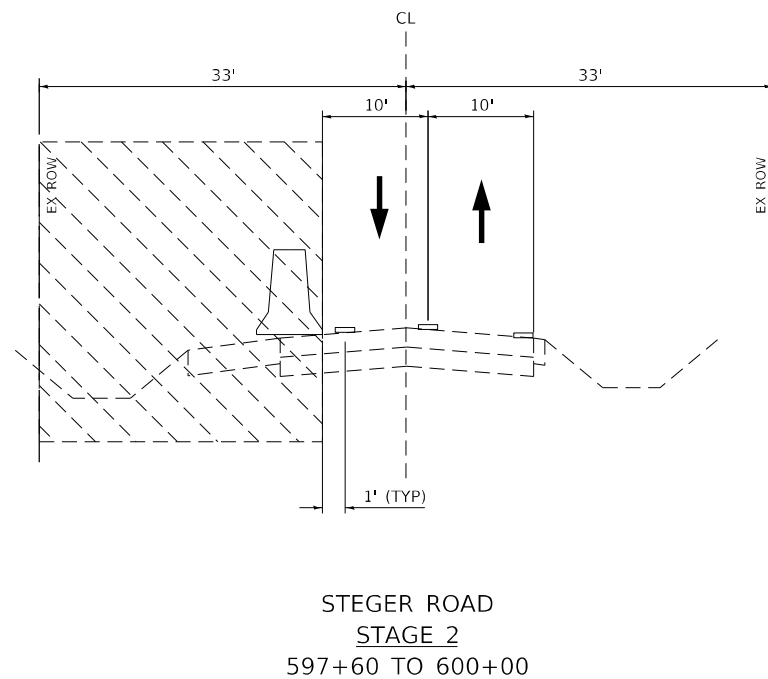
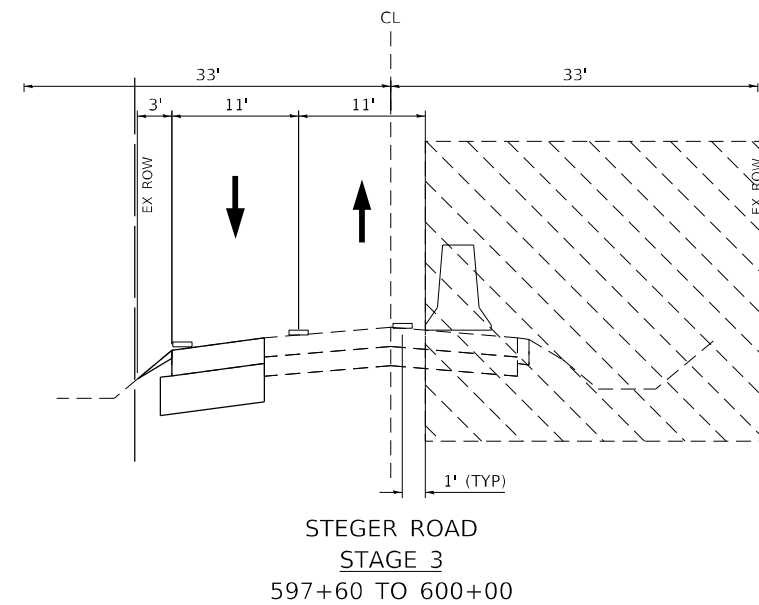
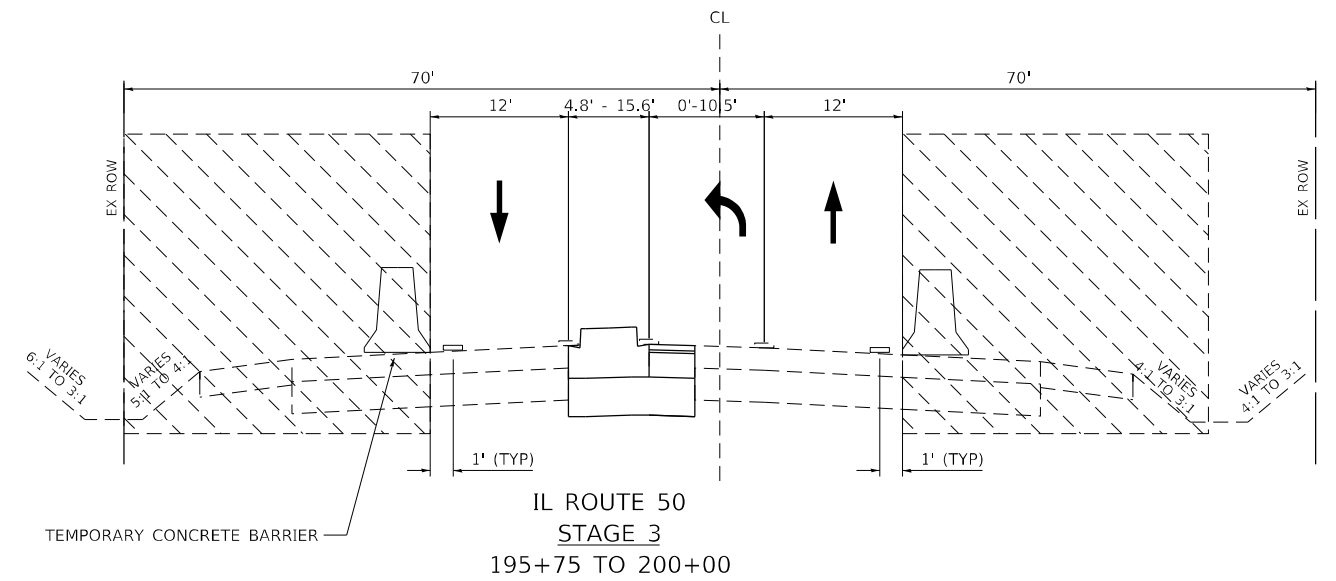
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|---|---------|-------------|------------------|
| SUGGESTED MAINTENANCE OF TRAFFIC: TYPICAL SECTIONS | | | |
| IL ROUTE 50 AT STEGER ROAD | | | |
| SCALE: 1"=50' | SHEET 1 | OF 8 SHEETS | STA. - TO STA. - |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 24 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |



IL ROUTE 50
STAGE 2
200+00 TO 201+00



NOTE:
ACCESS TO EAST STEGER ROAD IS TO BE MAINTAINED DURING ALL STAGES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE OF TRAFFIC: TYPICAL SECTIONS
IL ROUTE 50 AT STEGER ROAD

SCALE: 1"=50' SHEET 2 OF 8 SHEETS STA. - TO STA. -

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 25 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

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| | | |
|-------------------------------|------------------|-----------|
| USER NAME = rostkowski | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

MATCHLINE STA 197+00

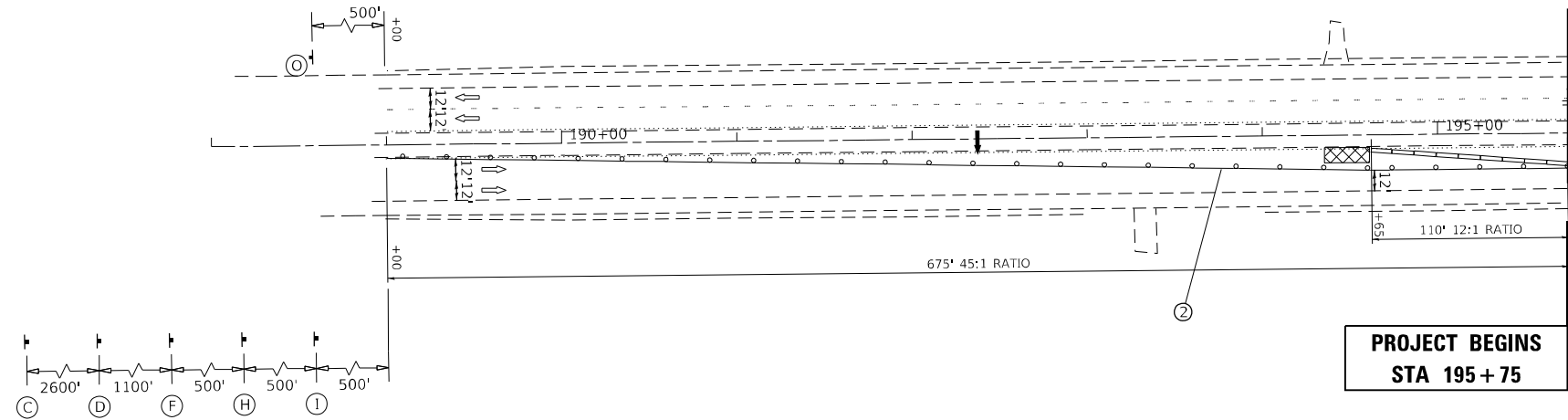


LEGEND

- WORK AREA
- SIGNS
- TYPE III BARRICADES
- IMPACT ATTENUATOR, TEMPORARY (REDIRECTIVE, NARROW), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER WITH REFLECTORS
- DRUMS OR BARRICADES SPACING (TYP):
50' C-C TANGENTS
20' C-C TAPERS
10' C-C RADII
- FLASHING ARROW BOARD
- TRAFFIC FLOW DIRECTION

WORK ZONE PAVEMENT MARKINGS:

- ① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
- ② PAVEMENT MARKING TAPE, TYPE IV, YELLOW, 4" SOLID
- ③ PAVEMENT MARKING TAPE, TYPE IV, YELLOW, 4" DASHED, 10' DASH 30' SKIP
- ④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" SOLID
- ⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" DASHED, 10' DASH 30' SKIP
- ⑥ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID
- ⑦ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" DASHED, 2' DASH 6' SKIP
- ⑧ PAVEMENT MARKING TAPE, TYPE IV, YELLOW, 12" SOLID
- ⑨ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24" SOLID
- ⑩ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS

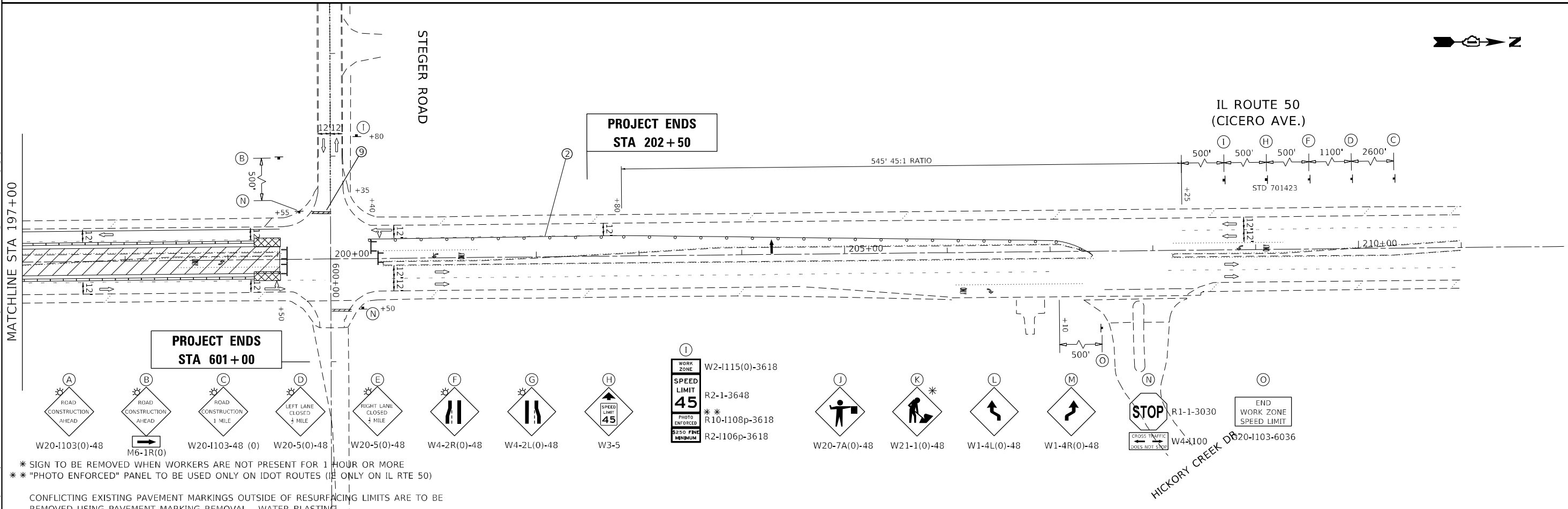


IL ROUTE 50
(CICERO AVE.)

**PROJECT ENDS
STA 202+50**

MATCHLINE STA 197+00

STEGER ROAD



- W20-1103(0)-48
- M6-1R(0)
- W20-1103-48 (0)
- W20-5(0)-48
- W20-5(0)-48
- W4-2R(0)-48
- W4-2L(0)-48
- W3-5
- W2-1115(0)-3618
 R2-1-3648
 ** PHOTO ENFORCED **
 R10-1108p-3618
 R2-1106p-3618
- W20-7A(0)-48
- W21-1(0)-48
- W1-4L(0)-48
- W1-4R(0)-48
- R1-1-3030
 W4-1100
- R20-1103-6036

* SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE
 ** "PHOTO ENFORCED" PANEL TO BE USED ONLY ON IDOT ROUTES (IE ONLY ON IL RTE 50)

CONFLICTING EXISTING PAVEMENT MARKINGS OUTSIDE OF RESURFACING LIMITS ARE TO BE REMOVED USING PAVEMENT MARKING REMOVAL - WATER BLASTING.

| | | | |
|------------------------------|------------------|-----------|--|
| USER NAME = rostkowsidr | DESIGNED - RR | REVISED - | |
| | DRAWN - RR | REVISED - | |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - | |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC: STAGE 1
IL ROUTE 50 AT STEGER ROAD**

SCALE: 1"=50' SHEET 3 OF 8 SHEETS STA. 188+00 TO STA. 211+00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 26 |
| CONTRACT NO. 62F87 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

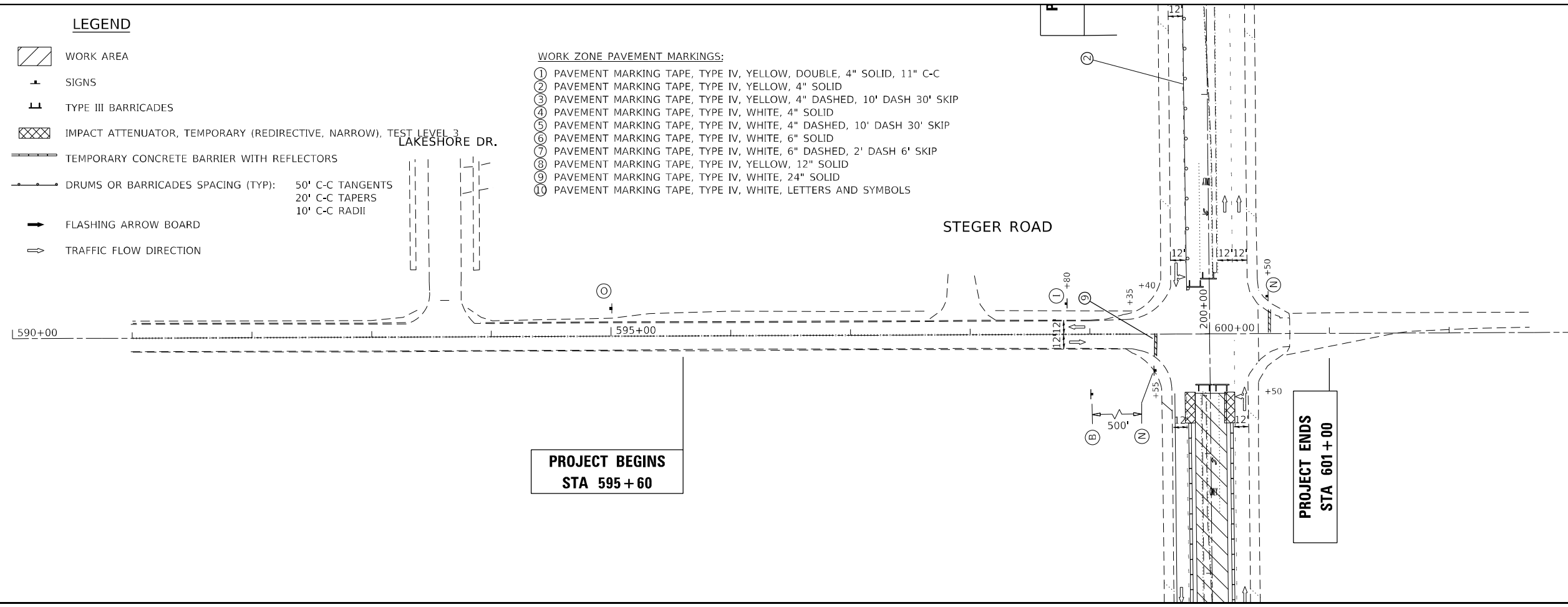
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 PLOT DATE: 8/16/2021



LEGEND

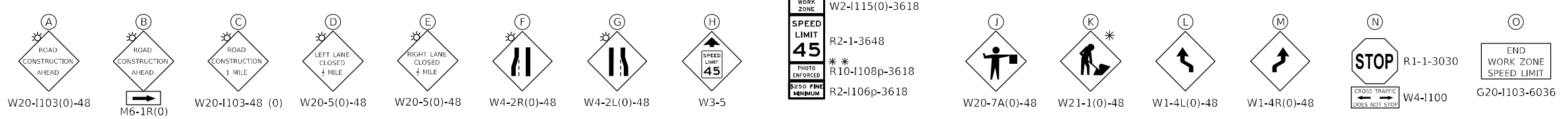
- WORK AREA
- SIGNS
- TYPE III BARRICADES
- IMPACT ATTENUATOR, TEMPORARY (REDIRECTIVE, NARROW), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER WITH REFLECTORS
- DRUMS OR BARRICADES SPACING (TYP):
50' C-C TANGENTS
20' C-C TAPERS
10' C-C RADII
- FLASHING ARROW BOARD
- TRAFFIC FLOW DIRECTION

- WORK ZONE PAVEMENT MARKINGS:**
- ① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
 - ② PAVEMENT MARKING TAPE, TYPE IV, YELLOW, 4" SOLID
 - ③ PAVEMENT MARKING TAPE, TYPE IV, YELLOW, 4" DASHED, 10' DASH 30' SKIP
 - ④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" SOLID
 - ⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" DASHED, 10' DASH 30' SKIP
 - ⑥ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID
 - ⑦ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" DASHED, 2' DASH 6' SKIP
 - ⑧ PAVEMENT MARKING TAPE, TYPE IV, YELLOW, 12" SOLID
 - ⑨ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24" SOLID
 - ⑩ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS



**PROJECT BEGINS
STA 595 + 60**

**PROJECT ENDS
STA 601 + 00**



* SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE
 ** "PHOTO ENFORCED" PANEL TO BE USED ONLY ON IDOT ROUTES (IE ONLY ON IL RTE 50)

CONFLICTING EXISTING PAVEMENT MARKINGS OUTSIDE OF RESURFACING LIMITS ARE TO BE REMOVED USING PAVEMENT MARKING REMOVAL - WATER BLASTING.

| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowsidr | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC: STAGE 1
IL ROUTE 50 AT STEGER ROAD**

SCALE: 1"=50' SHEET 4 OF 8 SHEETS STA. 590+00 TO STA. 602+00

| | | | | |
|---------------------------|--------------------|------------------|--------------------|--------------|
| F.A.P. RTE. 350 | SECTION 101W-N(17) | COUNTY COOK/WILL | TOTAL SHEETS 87 | SHEET NO. 27 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62F87 | |

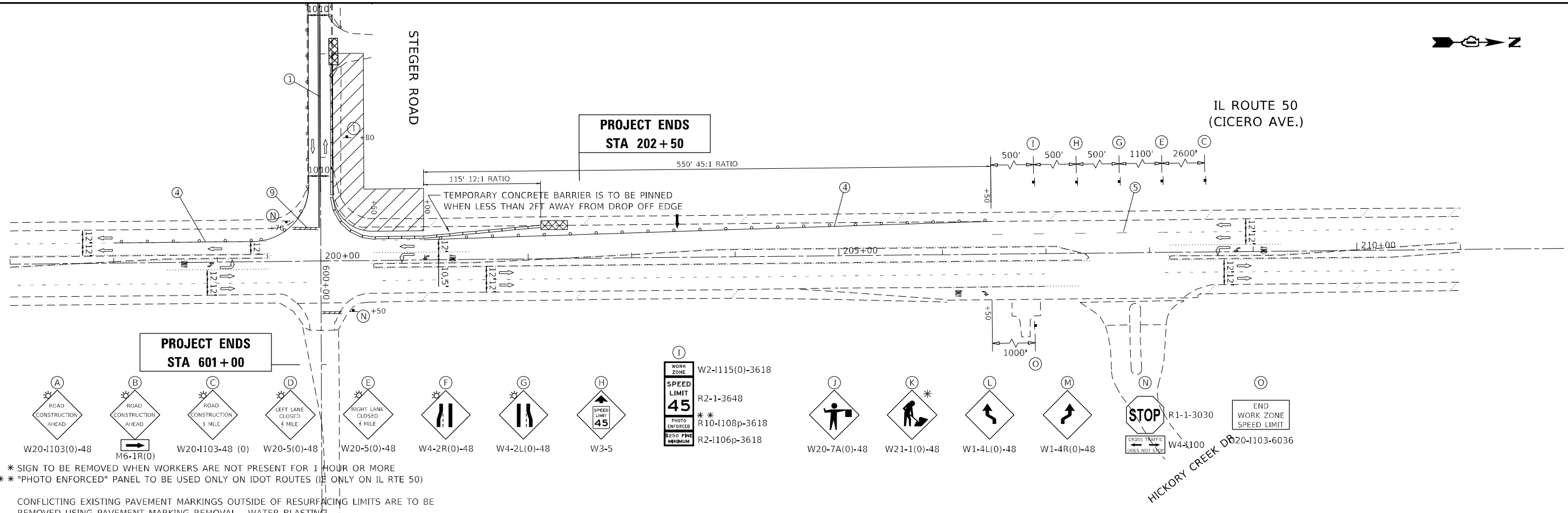
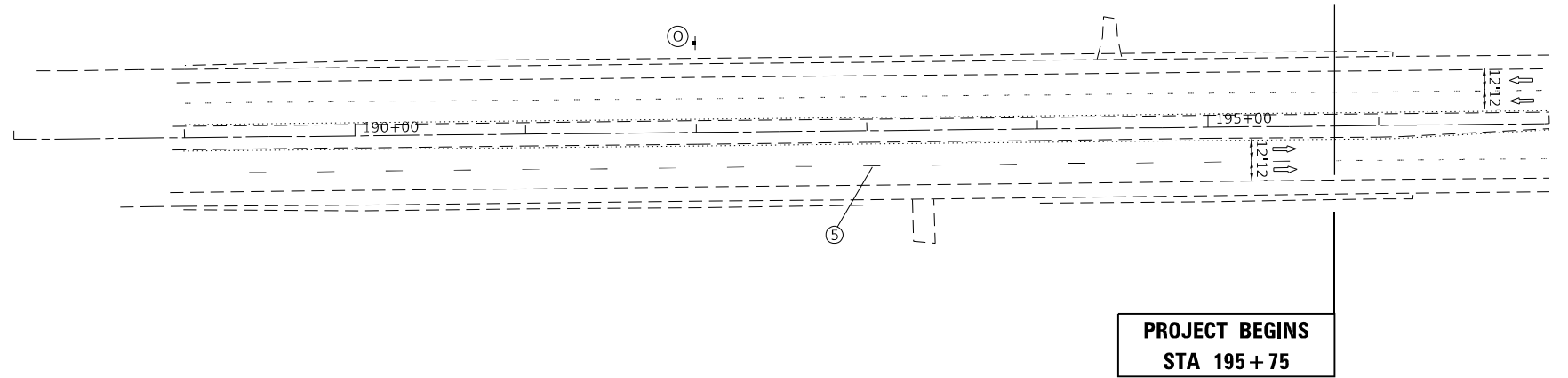
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LEGEND

- WORK AREA
- SIGNS
- TYPE III BARRICADES
- IMPACT ATTENUATOR, TEMPORARY (REDIRECTIVE, NARROW), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER WITH REFLECTORS
- DRUMS OR BARRICADES SPACING (TYP):
50' C-C TANGENTS
20' C-C TAPERS
10' C-C RADII
- FLASHING ARROW BOARD
- TRAFFIC FLOW DIRECTION

WORK ZONE PAVEMENT MARKINGS:

- ① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
- ② PAVEMENT MARKING TAPE, TYPE IV, YELLOW, 4" SOLID
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- ④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" SOLID
- ⑤ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" DASHED, 10' DASH 30' SKIP
- ⑥ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID
- ⑦ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" DASHED, 2' DASH 6' SKIP
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- ⑨ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24" SOLID
- ⑩ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS



- W20-1103(0)-48
- M6-1R(0)
- W20-1103-48 (0)
- W20-5(0)-48
- W20-5(0)-48
- W4-2R(0)-48
- W4-2L(0)-48
- W3-5

- W2-1115(0)-3618
- R2-1-3648
- R10-1108p-3618
- R2-1106p-3618
- W20-7A(0)-48
- W21-1(0)-48
- W1-4L(0)-48
- W1-4R(0)-48
- R1-1-3030
- W4-1100
- R20-1103-6036

* SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE
 ** "PHOTO ENFORCED" PANEL TO BE USED ONLY ON IDOT ROUTES (IE ONLY ON IL RTE 50)

CONFLICTING EXISTING PAVEMENT MARKINGS OUTSIDE OF RESURFACING LIMITS ARE TO BE REMOVED USING PAVEMENT MARKING REMOVAL - WATER BLASTING.

| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowsidr | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC: STAGE 2
IL ROUTE 50 AT STEGER ROAD**









SCALE: 1"=50' SHEET 5 OF 8 SHEETS STA. 188+00 TO STA. 211+00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 28 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

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 PLOT DATE: 8/16/2021

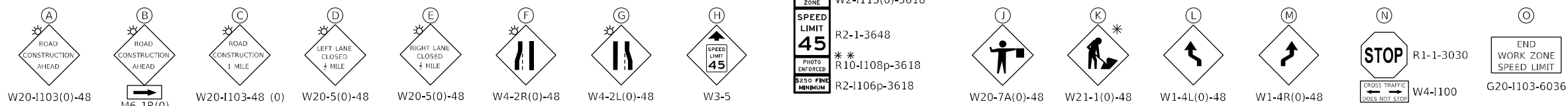
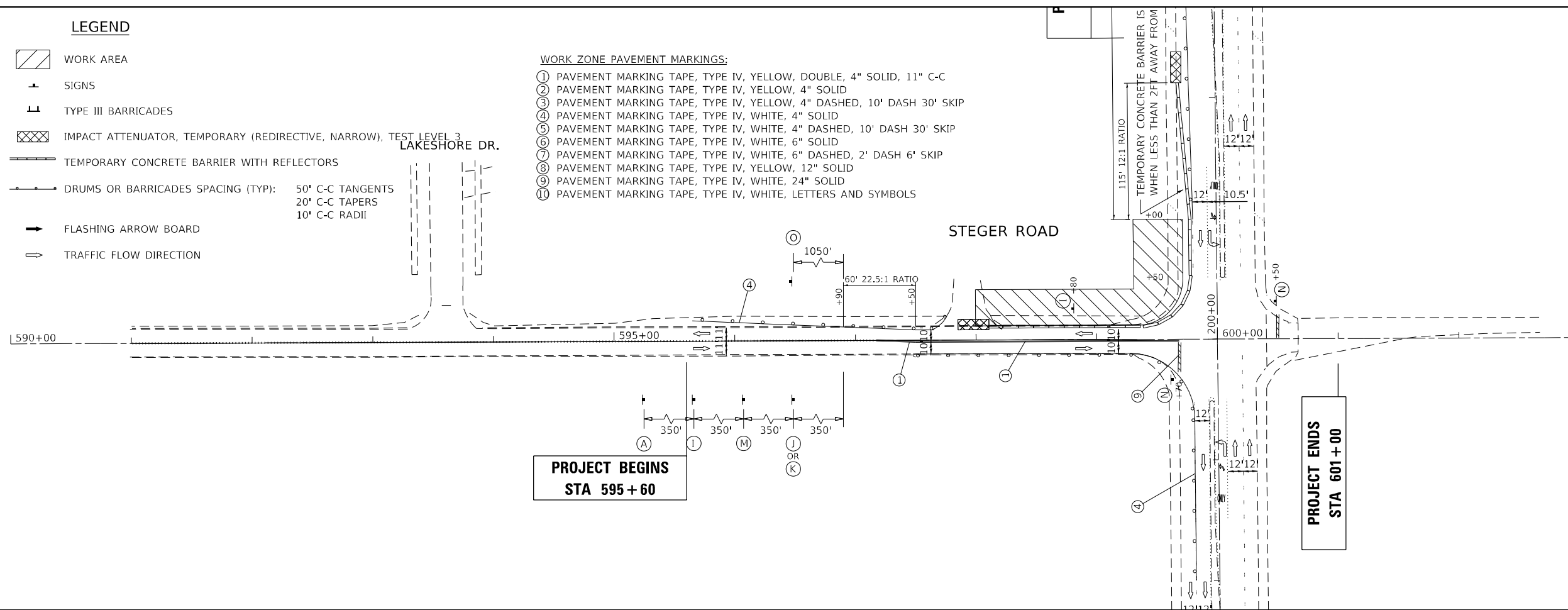


LEGEND

-  WORK AREA
-  SIGNS
-  TYPE III BARRICADES
-  IMPACT ATTENUATOR, TEMPORARY (REDIRECTIVE, NARROW), TEST LEVEL 3
-  TEMPORARY CONCRETE BARRIER WITH REFLECTORS
-  DRUMS OR BARRICADES SPACING (TYP):
50' C-C TANGENTS
20' C-C TAPERS
10' C-C RADII
-  FLASHING ARROW BOARD
-  TRAFFIC FLOW DIRECTION

WORK ZONE PAVEMENT MARKINGS:

- ① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
- ② PAVEMENT MARKING TAPE, TYPE IV, YELLOW, 4" SOLID
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- ⑨ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24" SOLID
- ⑩ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS



* SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE
 ** "PHOTO ENFORCED" PANEL TO BE USED ONLY ON IDOT ROUTES (IE ONLY ON IL RTE 50)

CONFLICTING EXISTING PAVEMENT MARKINGS OUTSIDE OF RESURFACING LIMITS ARE TO BE REMOVED USING PAVEMENT MARKING REMOVAL - WATER BLASTING.

| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkawskir | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC: STAGE 2
IL ROUTE 50 AT STEGER ROAD**

SCALE: 1"=50' SHEET 6 OF 8 SHEETS STA. 590+00 TO STA. 602+00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 29 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

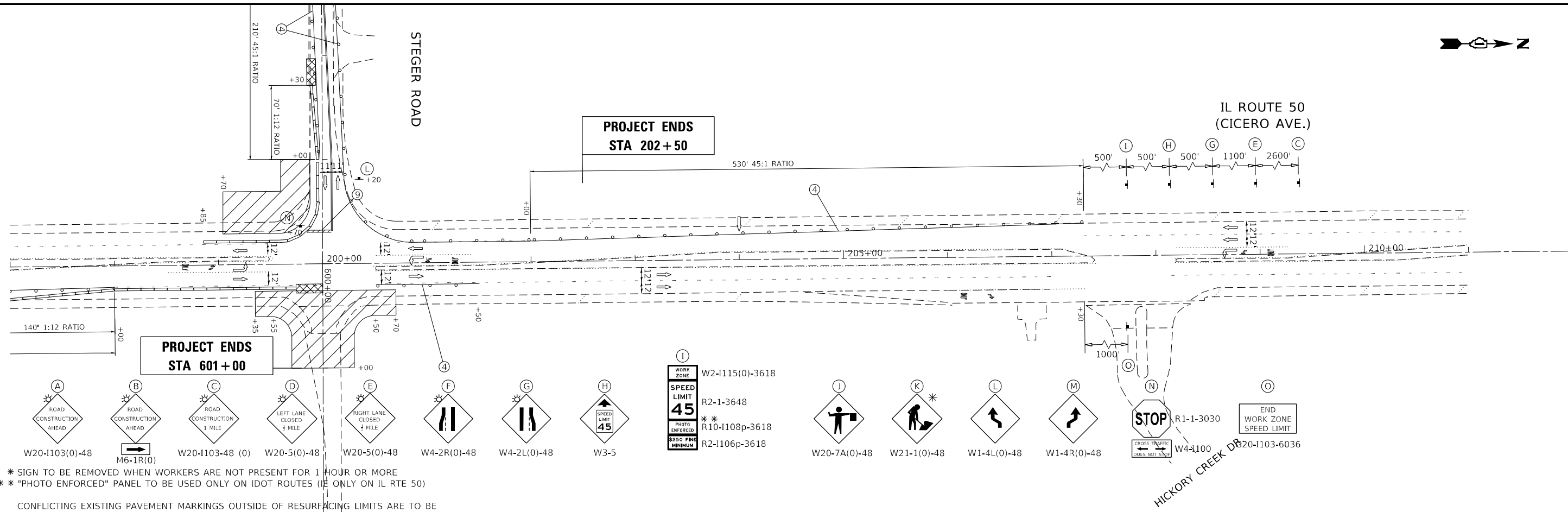
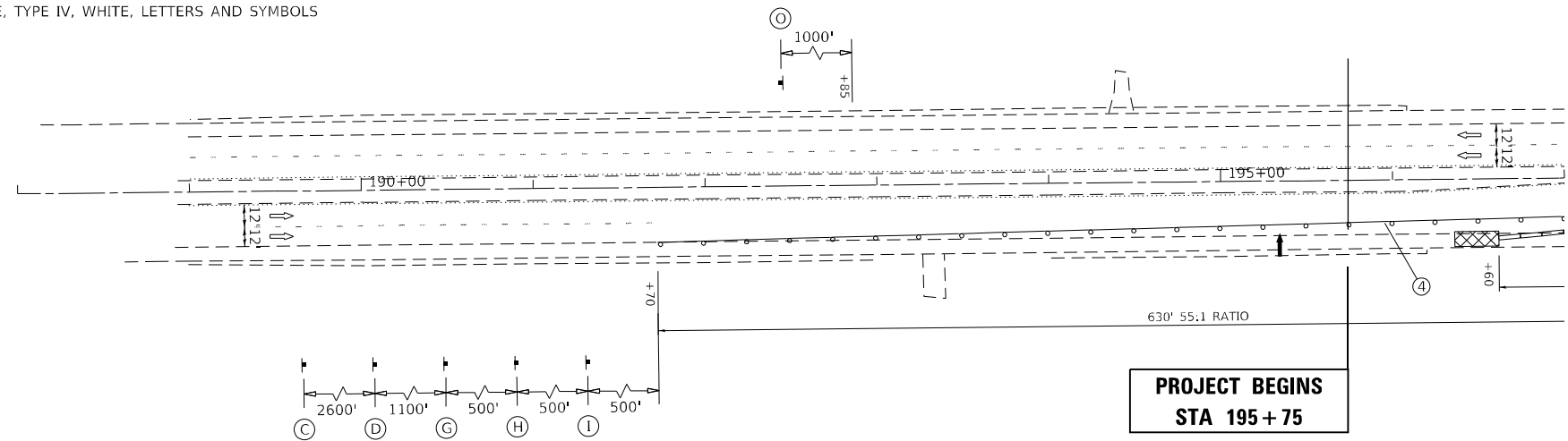
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LEGEND

- WORK AREA
- SIGNS
- TYPE III BARRICADES
- IMPACT ATTENUATOR, TEMPORARY (REDIRECTIVE, NARROW), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER WITH REFLECTORS
- DRUMS OR BARRICADES SPACING (TYP):
50' C-C TANGENTS
20' C-C TAPERS
10' C-C RADII
- FLASHING ARROW BOARD
- TRAFFIC FLOW DIRECTION

WORK ZONE PAVEMENT MARKINGS:

- ① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
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- ⑥ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 6" SOLID
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- ⑨ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24" SOLID
- ⑩ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS



- W20-1103(0)-48
- M6-1R(0)
- W20-1103-48 (0)
- W20-5(0)-48
- W20-5(0)-48
- W4-2R(0)-48
- W4-2L(0)-48
- W3-5

- W2-1115(0)-3618
- R2-1-3648
- R10-1108p-3618
- R2-1106p-3618
- W20-7A(0)-48
- W21-1(0)-48
- W1-4L(0)-48
- W1-4R(0)-48
- R1-1-3030
- W4-1100
- R20-1103-6036

* SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE
 ** "PHOTO ENFORCED" PANEL TO BE USED ONLY ON IDOT ROUTES (IE ONLY ON IL RTE 50)

CONFLICTING EXISTING PAVEMENT MARKINGS OUTSIDE OF RESURFACING LIMITS ARE TO BE REMOVED USING PAVEMENT MARKING REMOVAL - WATER BLASTING.

| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowsidr | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC: STAGE 3
IL ROUTE 50 AT STEGER ROAD**

SCALE: 1"=50' SHEET 7 OF 8 SHEETS STA. 188+00 TO STA. 211+00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 30 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

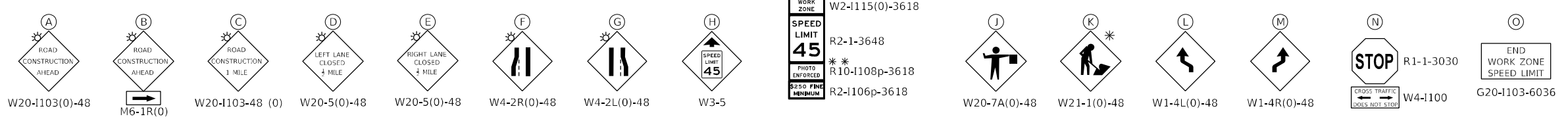
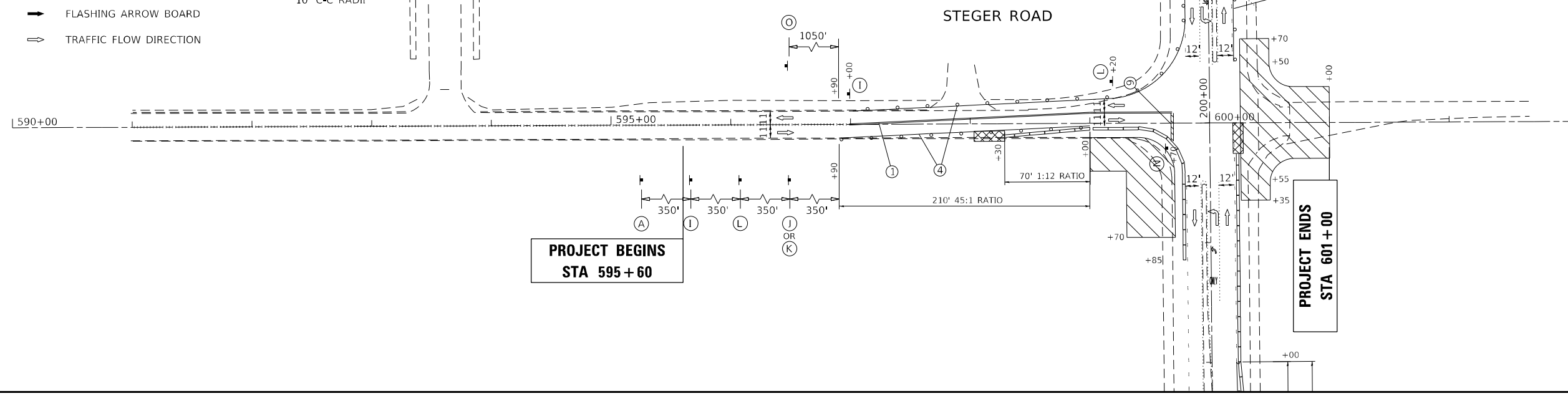
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LEGEND

- WORK AREA
- SIGNS
- TYPE III BARRICADES
- IMPACT ATTENUATOR, TEMPORARY (REDIRECTIVE, NARROW), TEST LEVEL 3
- TEMPORARY CONCRETE BARRIER WITH REFLECTORS
- DRUMS OR BARRICADES SPACING (TYP):
50' C-C TANGENTS
20' C-C TAPERS
10' C-C RADII
- FLASHING ARROW BOARD
- TRAFFIC FLOW DIRECTION

- WORK ZONE PAVEMENT MARKINGS:**
- ① PAVEMENT MARKING TAPE, TYPE IV, YELLOW, DOUBLE, 4" SOLID, 11" C-C
 - ② PAVEMENT MARKING TAPE, TYPE IV, YELLOW, 4" SOLID
 - ③ PAVEMENT MARKING TAPE, TYPE IV, YELLOW, 4" DASHED, 10' DASH 30' SKIP
 - ④ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 4" SOLID
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 - ⑨ PAVEMENT MARKING TAPE, TYPE IV, WHITE, 24" SOLID
 - ⑩ PAVEMENT MARKING TAPE, TYPE IV, WHITE, LETTERS AND SYMBOLS



* SIGN TO BE REMOVED WHEN WORKERS ARE NOT PRESENT FOR 1 HOUR OR MORE
 ** "PHOTO ENFORCED" PANEL TO BE USED ONLY ON IDOT ROUTES (IE ONLY ON IL RTE 50)

CONFLICTING EXISTING PAVEMENT MARKINGS OUTSIDE OF RESURFACING LIMITS ARE TO BE REMOVED USING PAVEMENT MARKING REMOVAL - WATER BLASTING.

| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowsidr | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE OF TRAFFIC: STAGE 3
IL ROUTE 50 AT STEGER ROAD**

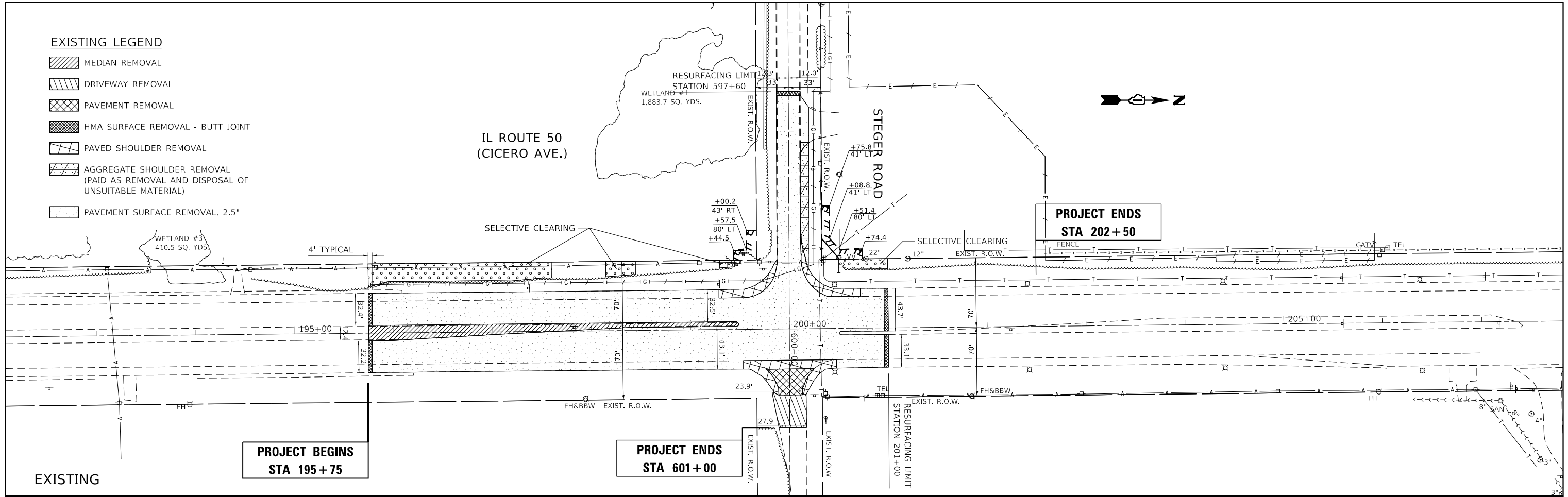
SCALE: 1"=50' SHEET 8 OF 8 SHEETS STA. 590+00 TO STA. 602+00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 31 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |

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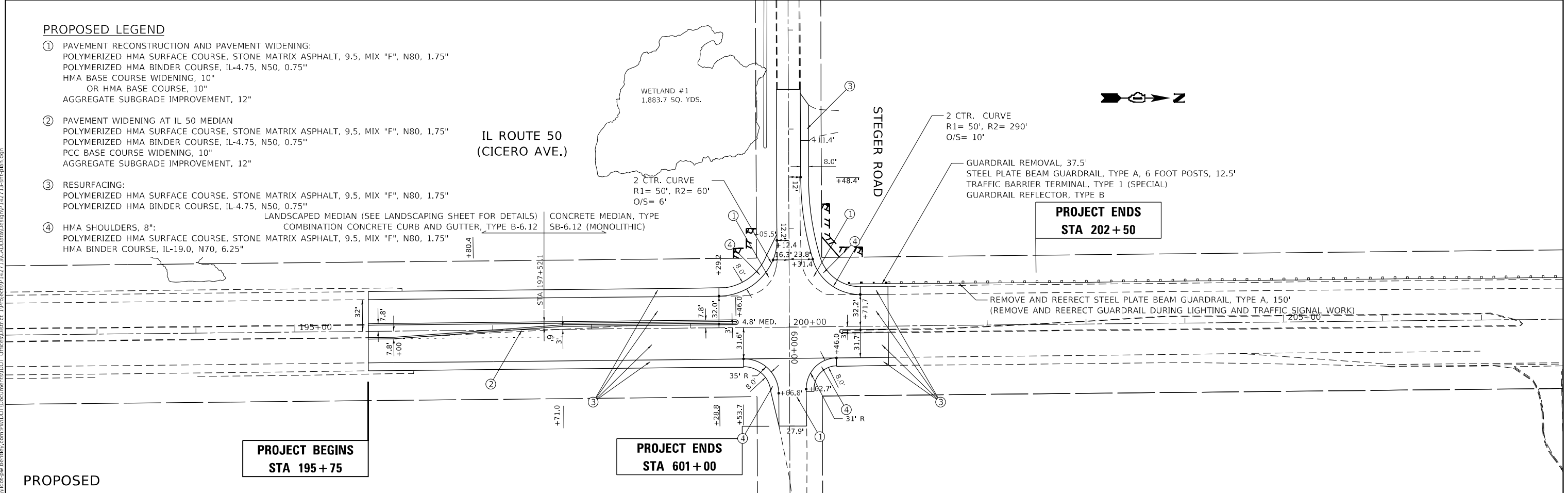
EXISTING LEGEND

- MEDIAN REMOVAL
- DRIVEWAY REMOVAL
- PAVEMENT REMOVAL
- HMA SURFACE REMOVAL - BUTT JOINT
- PAVED SHOULDER REMOVAL
- AGGREGATE SHOULDER REMOVAL (PAID AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL)
- PAVEMENT SURFACE REMOVAL, 2.5"



PROPOSED LEGEND

- ① PAVEMENT RECONSTRUCTION AND PAVEMENT WIDENING:
 POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1.75"
 POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 0.75"
 HMA BASE COURSE WIDENING, 10"
 OR HMA BASE COURSE, 10"
 AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ② PAVEMENT WIDENING AT IL 50 MEDIAN
 POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1.75"
 POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 0.75"
 PCC BASE COURSE WIDENING, 10"
 AGGREGATE SUBGRADE IMPROVEMENT, 12"
- ③ RESURFACING:
 POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1.75"
 POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 0.75"
- ④ HMA SHOULDERS, 8":
 POLYMERIZED HMA SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80, 1.75"
 HMA BINDER COURSE, IL-19.0, N70, 6.25"



MODEL: Default
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| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowskdr | DESIGNED - RR | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 9/24/2021 | DATE - 8/13/2021 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

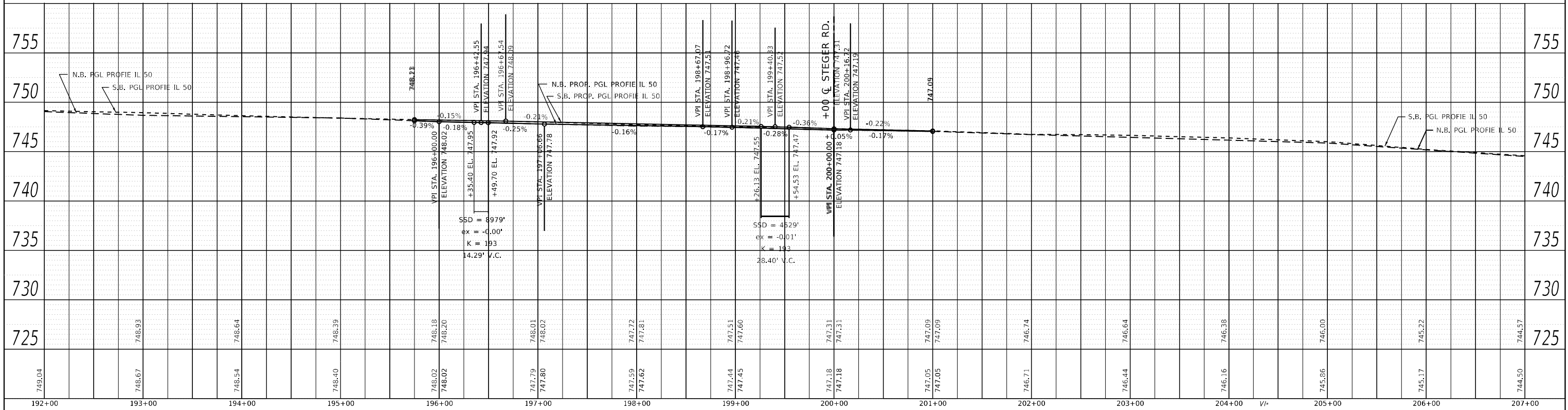
EXISTING AND PROPOSED ROADWAY PLAN
IL ROUTE 50 AT STEGER ROAD

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. - TO STA. -

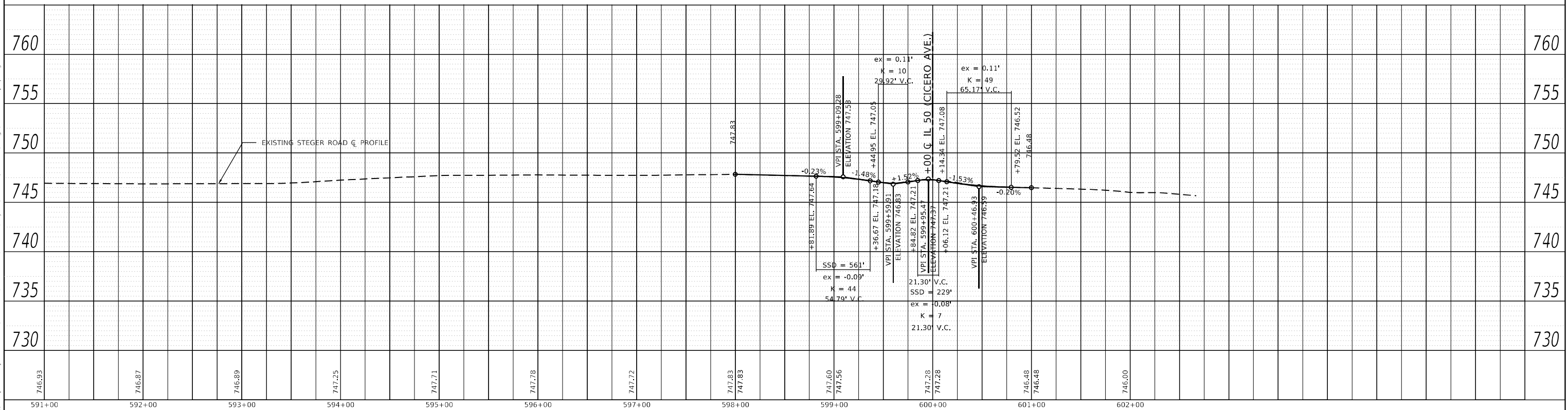
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|------------|-----------|--------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 32 |
| CONTRACT NO. 62F87 | | | | |

ILLINOIS FED. AID PROJECT

IL ROUTE 50 PROFILE



STEGER ROAD PROFILE



MODEL Default
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| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowsdir | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| ROADWAY PROFILES | | | |
|----------------------------|---------|-------------|------------------|
| IL ROUTE 50 AT STEGER ROAD | | | |
| SCALE: 1"=50' | SHEET 1 | OF 1 SHEETS | STA. - TO STA. - |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|------------|------------------|--------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 33 |
| CONTRACT NO. 62F87 | | | | |
| ILLINOIS | | FED. AID PROJECT | | |

EROSION CONTROL NOTES

1. TEMPORARY EROSION CONTROL SEEDING AND MULCH, METHOD 2 IS TO BE PROVIDED AT ALL ERODIBLE BARE EARTH AREAS.
2. AT ANY AREA WHERE THERE IS NO PROPOSED GRADING THE EXISTING GROUND COVER SHALL REMAIN.
3. THE EROSION CONTROL MEASURES SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE STANDARD SPECIFICATIONS AND APPLICABLE STATE STANDARDS FOR THE ENTIRE DURATION OF THE CONTRACT OR UNTIL SUCH A TIME AS DIRECTED BY THE ENGINEER.
4. ALL EROSION CONTROL MEASURES WILL BE MAINTAINED IN ACCORDANCE WITH THE IDOT EROSION AND SEDIMENT CONTROL FIELD GUIDE FOR CONSTRUCTION INSPECTION AND IDOT'S BEST MANAGEMENT PRACTICES - MAINTENANCE GUIDE: ([HTTP://WWW.IDOT.ILLINOIS.GOV/TRANSPORTATION-SYSTEM/ENVIRONMENT/EROSION-AND-SEDIMENT-CONTROL](http://www.idot.illinois.gov/transportation-system/environment/erosion-and-sediment-control)).
5. THE CONTRACTOR WILL ASSUME RESPONSIBILITY FOR MAINTENANCE OF ALL SOIL EROSION CONTROL DURING CONSTRUCTION.
6. THE CONTRACTOR SHALL CHECK ALL EROSION CONTROL MEASURES WEEKLY AND AFTER EACH RAINFALL 0.5 INCHES OR GREATER IN A 24 HOUR PERIOD, OR EQUIVALENT SNOWFALL. ADDITIONALLY, DURING THE WINTER MONTHS ALL MEASURES SHOULD BE CHECKED BY THE CONTRACTOR AFTER EACH SIGNIFICANT SNOWMELT.
7. TEMPORARY OR PERMANENT STABILIZATION SHALL BE INITIATED IMMEDIATELY UPON COMPLETION OF DISTURBANCE OR IF THE WORK AREA IS TO BE LEFT UNDISTURBED FOR 14 DAYS OR MORE.
8. UNDER NO CIRCUMSTANCES SHALL THE CONTRACTOR PROLONG FINAL GRADING AND SHAPING SO THAT THE ENTIRE PROJECT CAN BE PERMANENTLY SEEDED AT ONE TIME.

MODEL: Default
 FILE NAME: p:\ultra-cw-beadley.com\PI\IDOT\Documents\IDOT Offices\District 1\Projects\112713\CAD\Drawings\Design\112713-ent-eros.dgn

| | | |
|-------------------------------|------------------|-----------|
| USER NAME = rostkowsdr | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

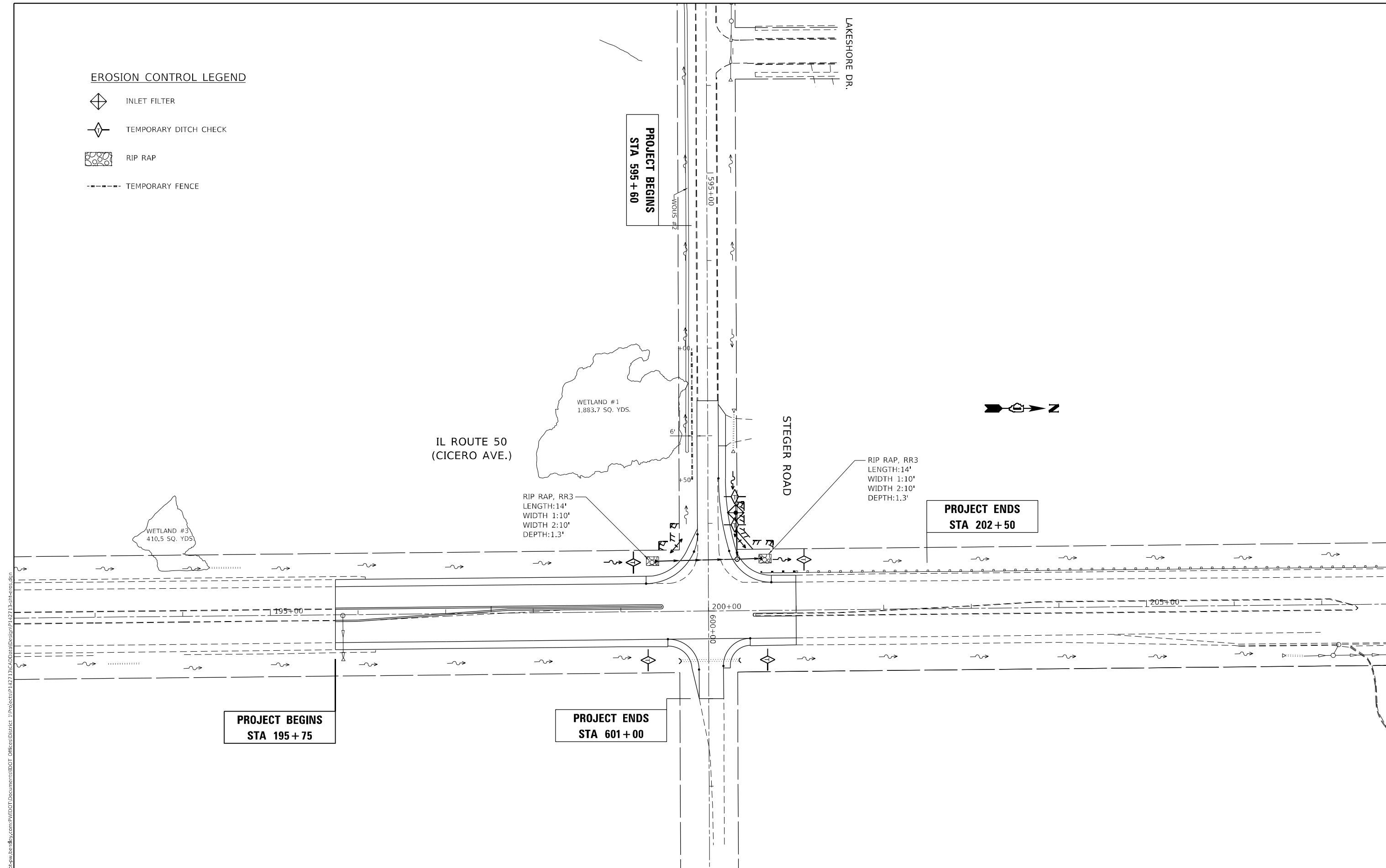
**EROSION CONTROL NOTES
IL ROUTE 50 AT STEGER ROAD**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. - TO STA. -

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 34 |
| CONTRACT NO. 62F87 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

EROSION CONTROL LEGEND

-  INLET FILTER
-  TEMPORARY DITCH CHECK
-  RIP RAP
-  TEMPORARY FENCE



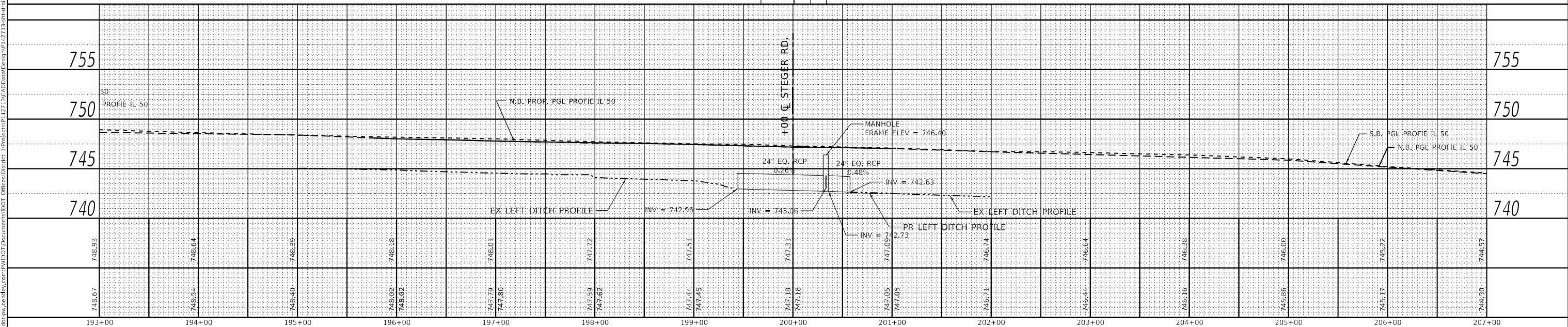
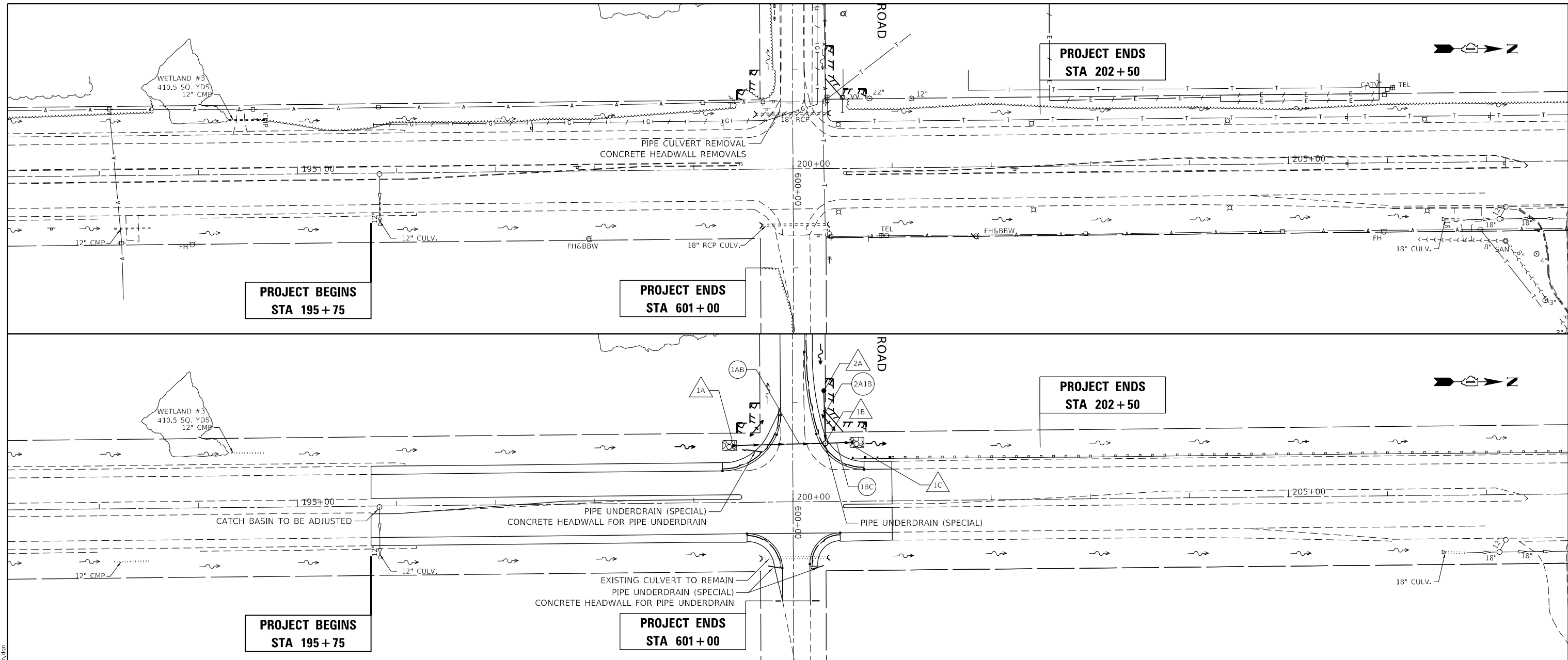
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| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowsdr | DESIGNED - RR | REVISED - |
| DRAWN - RR | REVISIONS - | |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | | | |
|---|---------|-------------|------------------|
| EROSION CONTROL PLAN IL ROUTE 50 AT STEGER ROAD | | | |
| SCALE: 1"=50' | SHEET 1 | OF 1 SHEETS | STA. - TO STA. - |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|------------|-----------|---------------------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 35 |
| CONTRACT NO. 62F87 | | | ILLINOIS FED. AID PROJECT | |



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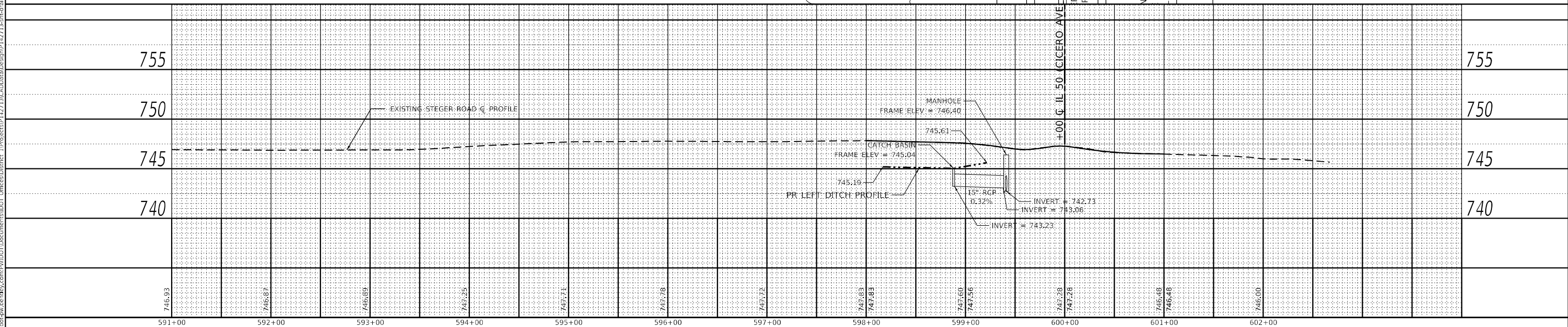
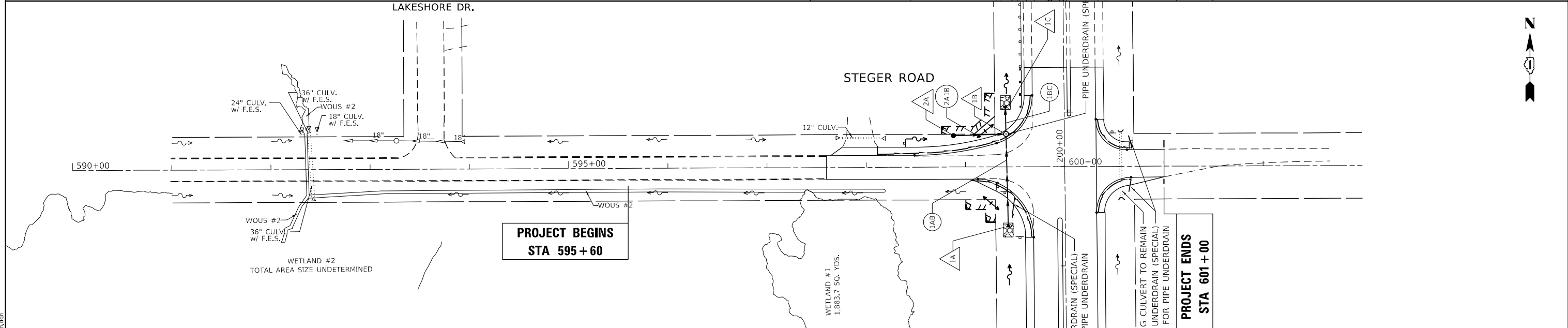
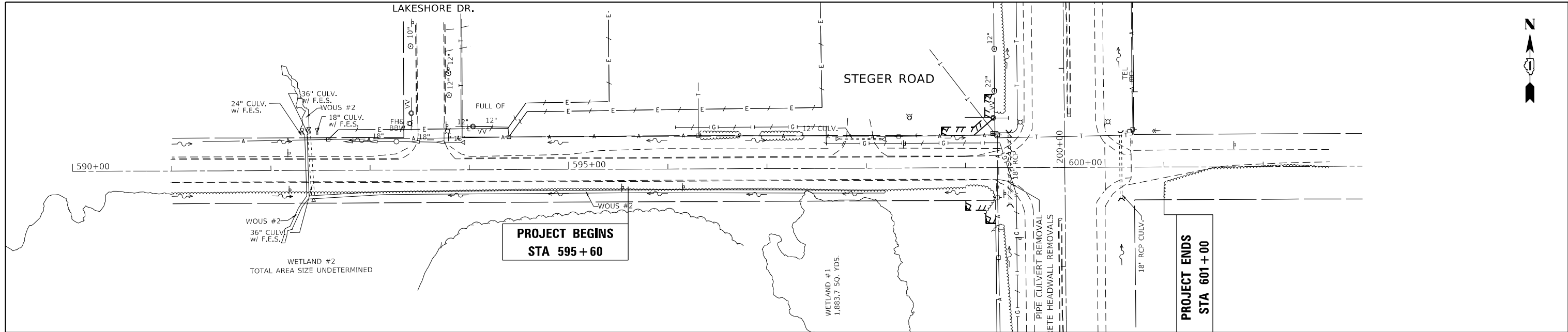
| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkawslr | DESIGNED - RR | REVISED - |
| DRAWN - RR | REVISED - | |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE PLAN AND PROFILE
IL ROUTE 50 AT STEGER ROAD

SCALE: 1"=50' SHEET 1 OF 2 SHEETS STA. - TO STA. -

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 36 |
| CONTRACT NO. 62F87 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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| | | |
|-----------------------------|------------------|-----------|
| USER NAME = rostkowsidr | DESIGNED - RR | REVISED - |
| DRAWN - RR | REVISED - | |
| PLOT SCALE = 100,000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DRAINAGE PLAN AND PROFILE
IL ROUTE 50 AT STEGER ROAD**

SCALE: 1"=50' SHEET 2 OF 2 SHEETS STA. - TO STA. -

| | | | | |
|--------------------|--------------------|------------------|---------------------------|--------------|
| F.A.P. RTE. 350 | SECTION 101W-N(17) | COUNTY COOK/WILL | TOTAL SHEETS 87 | SHEET NO. 37 |
| CONTRACT NO. 62F87 | | | ILLINOIS FED. AID PROJECT | |

| STRUCTURE SCHEDULE | | | | | | | | |
|--------------------|-----------|--------|---------------|--------|--------|--------|--------|---|
| ID | STATION | OFFSET | LID ELEVATION | INVERT | | | | PAY ITEM |
| | | | | N | S | W | E | |
| 1A | 199+43.74 | -57.47 | | 742.96 | | | | PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 24" |
| 1B | 200+33.38 | -58.84 | 746.40 | 742.73 | 742.73 | 743.06 | | *MANHOLES, TYPE A, 5'-DIAMETER, TYPE 1 FRAME, CLOSED LID |
| 1C | 200+57.53 | -58.30 | | | 742.63 | | | PRECAST REINFORCED CONCRETE FLARED END SECTIONS - ELLIPTICAL, EQUIVALENT ROUND-SIZE 24" |
| 2A | 598+87.93 | -31.56 | 745.04 | | | | 743.23 | CATCH BASINS, TYPE C, TYPE 8 GRATE |

*STRUCTURES WITH A FLAT SLAB TOP

| PIPE SCHEDULE | | | | | | | | |
|---------------|---|--------|-----------------|--------------|---------------|------------|-------|-----------------|
| ID | PAY ITEM | LENGTH | START STRUCTURE | START INVERT | END STRUCTURE | END INVERT | SLOPE | TRENCH BACKFILL |
| | | (FT) | | | | | | (CUYD) |
| 1AB | STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24" | 84.73 | 1A | 742.96 | 1B | 742.73 | 0.26% | 14.56 |
| 1BC | STORM SEWERS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 24" | 19.24 | 1B | 742.73 | 1C | 742.63 | 0.48% | 2.14 |
| 2A1B | STORM SEWERS, CLASS A, TYPE 1 15" | 48.88 | 2A | 743.23 | 1B | 743.06 | 0.32% | 5.00 |

MODEL: Default
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| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowsdr | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DRAINAGE STRUCTURES AND PIPES SCHEDULE
IL ROUTE 50 AT STEGER ROAD

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. - TO STA. -

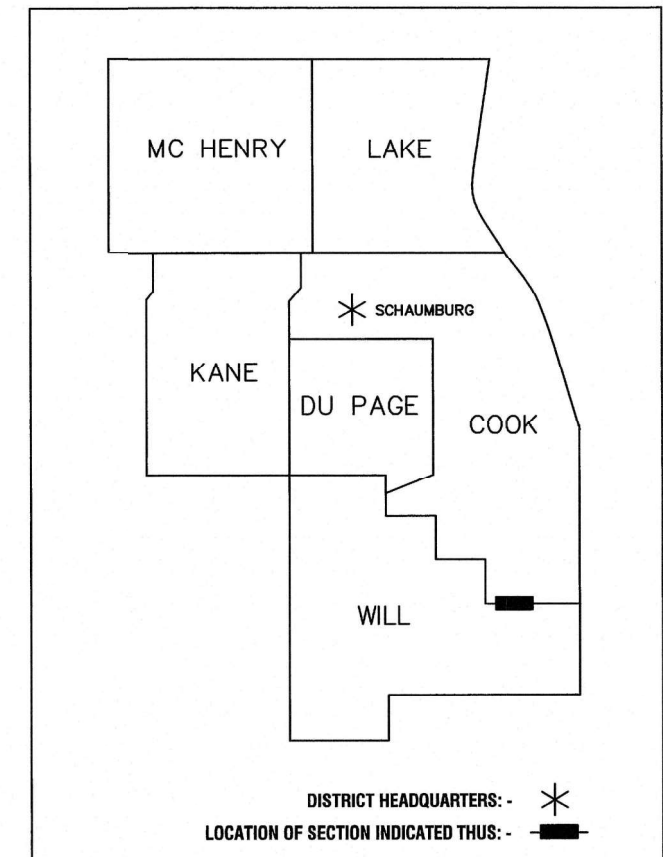
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|------------|-----------|---------------------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 38 |
| | | | CONTRACT NO. 62F87 | |
| | | | ILLINOIS FED. AID PROJECT | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLAT OF HIGHWAYS

ROUTE: IL 50
SECTION:
COUNTY: COOK and WILL
LIMITS: AT STEGER ROAD

JOB NO. R-90-009-16

| | | | | |
|---------------|----------|-------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | Cook & WILL | 3 | 1 |
| F.H.W.A. REQ. | ILLINOIS | PROJECT | R-90-009-16 | |

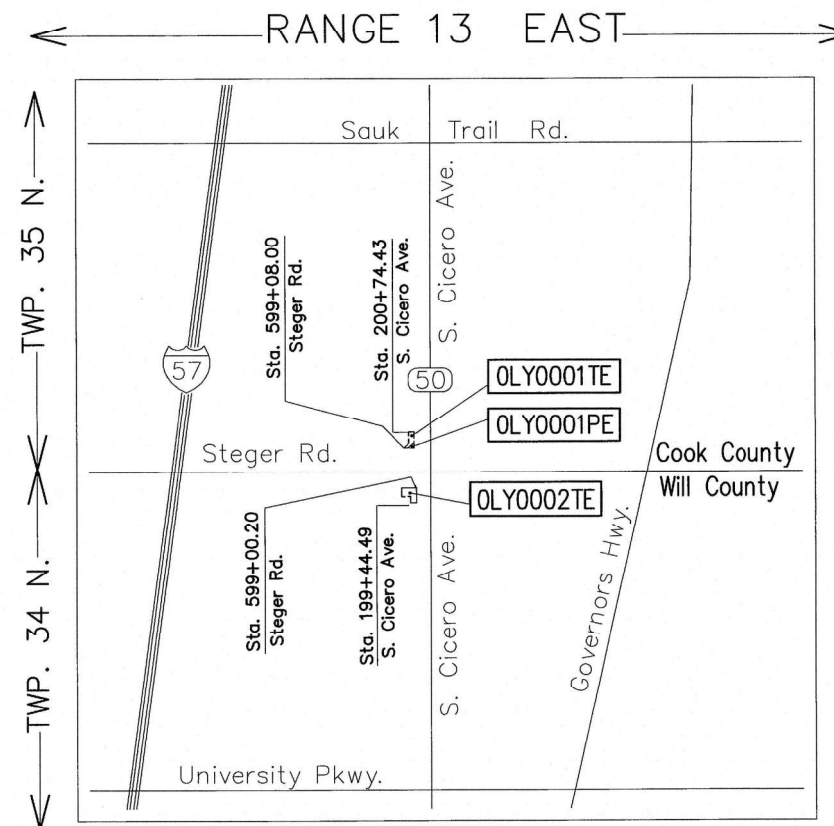


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OF THE STATE OF ILLINOIS**



AS
ASM Consultants, Inc.
16 E Wilson St, Batavia IL 60510
Tel (630) 879-0200 Fax (630) 454-3774
advanced@advct.com
Professional Design Firm #184-006014 expires 4/30/2019
ASM PROJECT NO. 777-016

| PARCEL NUMBER | OWNER | SHEET NUMBER | PROPERTY ACQUIRED BY |
|---------------|-------------------------------|--------------|----------------------|
| OLY0001PE | Corporation of Capital, Inc. | 2 & 3 | |
| OLY0001TE | Corporation of Capital, Inc. | 2 & 3 | |
| OLY0002TE | Essaness Theatres Corporation | 2 & 3 | |



LOCATION MAP
Not to Scale

PARTS OF, SE 1/4 OF SECTION 33, TWP. 35 N. R 13 E., AND NE 1/4 OF SECTION 4, TWP. 34 N., R. 13 E., OF THE 3RD. P.M., IN COOK COUNTY AND WILL COUNTY, ILLINOIS.

| PARCEL NUMBER | TOTAL HOLDINGS ACRES | PART TAKEN ACRES | AREA IN EXISTING R.O.W. ACRES | REMAINDER AREA ACRES | EASEMENT AREA | | PARCEL INDEX NUMBER |
|---------------|----------------------|------------------|-------------------------------|----------------------|---------------|-------------|--------------------------------------|
| | | | | | ACRES | SQUARE FEET | |
| OLY0001PE | 0.855 | | | | 0.002 | 86 | 31-33-401-007 |
| OLY0001TE | | | | | 0.008 | 349 | |
| OLY0002TE | 91.768 | | | | 0.016 | | 21-14-04-200-001 21-14-04-200-006 |

| COORDINATE TABLE | | | | |
|--|-----------|------------|-------------|-------------|
| STATE PLANE COORDINATE SYSTEM, EAST ZONE, NAD 83 (2011 ADJUSTMENT) | | | | |
| PT. | STATION | OFFSET | NORTH | EAST |
| CICERO AVENUE STATIONS | | | | |
| 1 | 199+44.49 | 69.18' LT. | 1749877.789 | 1148921.811 |
| 2 | 199+44.49 | 80.00' LT. | 1749890.759 | 1148910.857 |
| 3 | 199+57.57 | 80.00' LT. | 1749890.759 | 1148910.857 |
| 4 | 599+00.26 | 43.00' RT. | 1749890.599 | 1148890.855 |
| 5 | 200+52.14 | 69.17' LT. | 1749985.434 | 1148920.720 |
| 6 | 200+74.43 | 69.17' LT. | 1750007.727 | 1148920.489 |
| 7 | 200+74.43 | 80.00' LT. | 1750007.615 | 1148909.661 |
| STEGER ROAD STATIONS | | | | |
| 8 | 599+00.20 | 25.16' LT. | 1749908.441 | 1148890.712 |
| 9 | 599+08.00 | 40.87' LT. | 1749974.503 | 1148898.256 |
| 10 | 599+17.98 | 40.91' LT. | 1749974.583 | 1148908.229 |
| 11 | 599+19.69 | 50.94' LT. | 1749984.619 | 1148909.900 |
| 12 | 599+30.58 | 40.96' LT. | 1749974.683 | 1148920.831 |
| 13 | 599+30.98 | 25.04' Rt. | 1749908.687 | 1148921.503 |

LEGEND

SECTION CORNER 9 10 16 15 QUARTER SECTION CORNER

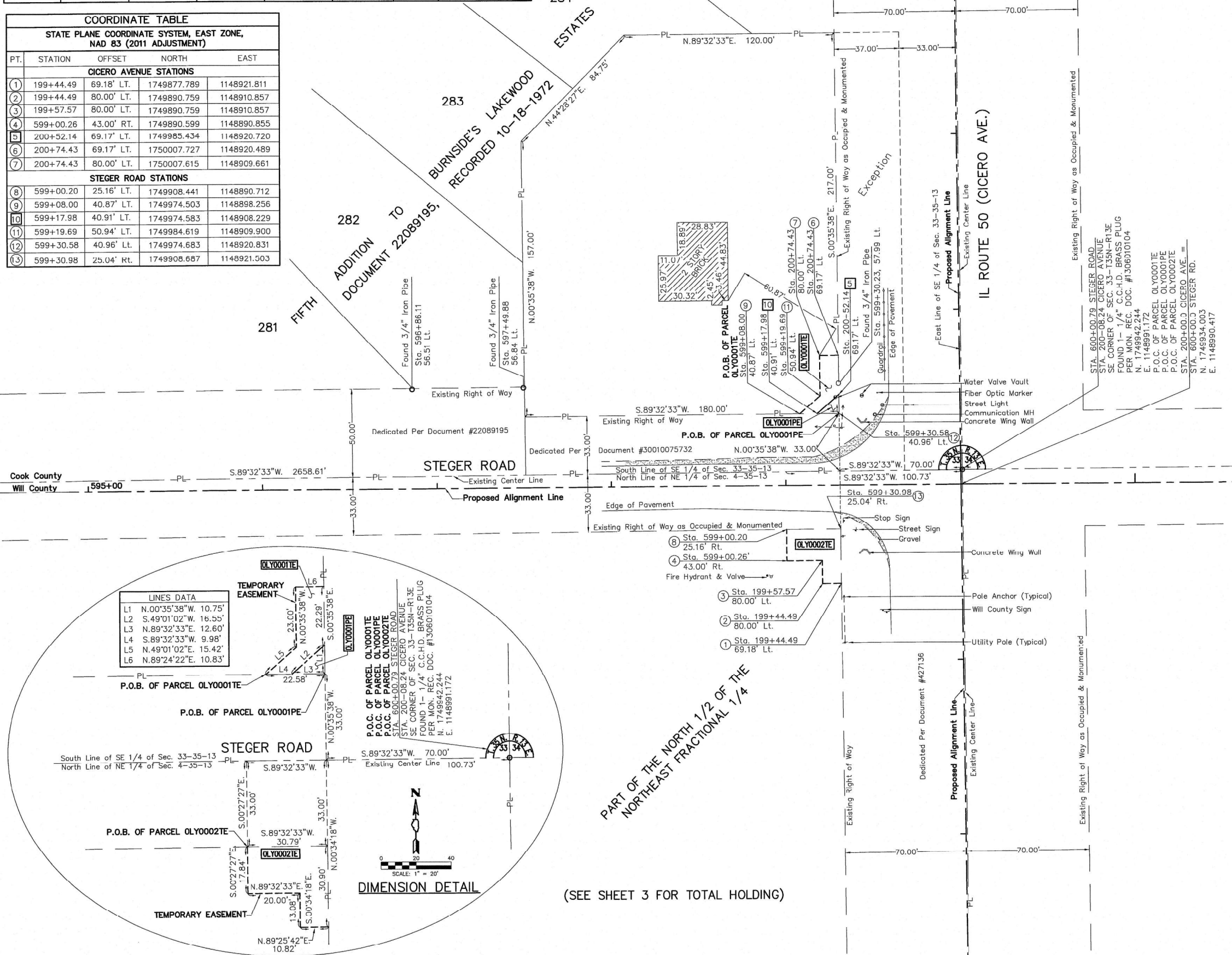
SECTION / QUARTER SECTION LINE
 PLATTED LOT LINES
 PROPERTY (DEED) LINE
 APL APPARENT PROPERTY LINE
 EXISTING CENTERLINE
 PROPOSED CENTERLINE
 EXISTING RIGHT OF WAY LINE
 PROPOSED RIGHT OF WAY LINE
 EXISTING EASEMENT
 PROPOSED EASEMENT
 EXISTING ACCESS CONTROL LINE
 PROPOSED ACCESS CONTROL LINE
 129.32' MEASURED DIMENSION
 129.32' (COMP) COMPUTED DIMENSION
 (129.32') RECORDED DIMENSION
 EXISTING BUILDING

0 30 60
SCALE: 1" = 30'

BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99998016. AREAS SHOWN ON THIS PLAT ARE GROUND. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.

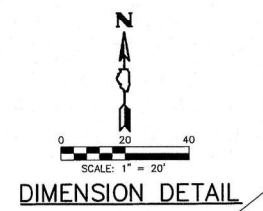
○ IRON PIPE OR ROD FOUND ⊕ "MAG" OR "PK" NAIL SET OR FOUND
 + CUT CROSS FOUND OR SET ● 5/8" REBAR SET

■ STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN, IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 ■ M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 ⊕ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101-02 (TO BE SET BY OTHERS)
 □ RIGHT OF WAY STAKING PROPOSED TO BE SET



TEMPORARY EASEMENT

| LINES DATA | |
|------------|----------------------|
| L1 | N.00°35'38"W. 10.75' |
| L2 | S.49°01'02"W. 16.55' |
| L3 | N.89°32'33"E. 12.60' |
| L4 | S.89°32'33"W. 9.98' |
| L5 | N.49°01'02"E. 15.42' |
| L6 | N.89°24'22"E. 10.83' |



STATE OF ILLINOIS)
 COUNTY OF KANE) SS

THIS IS TO CERTIFY THAT WE, ASM CONSULTANTS, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-6014, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 4 AND 33, TOWNSHIP 35 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF, THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT EATAWA, ILLINOIS THIS TH DAY
 OF MAY 2019, A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-3377
 LICENSE EXPIRATION DATE: 11/30/2020.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



ADVANCED SURVEYING & MAPPING

AS

ASM Consultants, Inc.
 16 E Wilson St, Batavia IL 60510
 Tel (630) 879-0200 Fax (630) 454-3774
 advanced@advct.com
 Professional Design Firm #184-006014 expires 4/30/2019

ASM PROJECT NO. 777-016

PLAT OF HIGHWAYS

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 IL 50 AT STEGER ROAD

SECTION: COOK & WILL COUNTY
 PROJECT: JOB NO. 90-009-16
 STATION: TO STATION:
 SCALE: 1" = 30' SHEET 2 OF 3

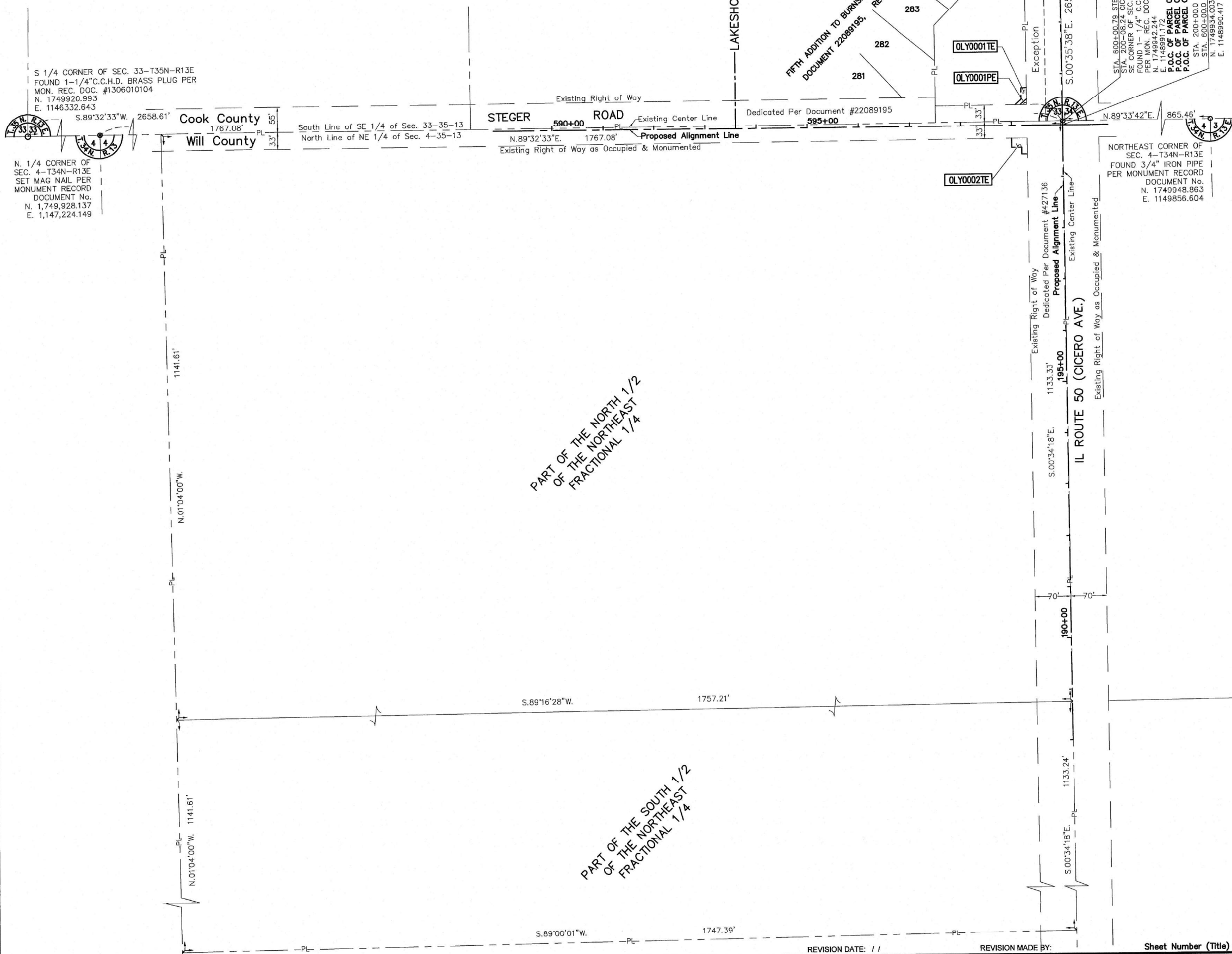
BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAMBURG, ILLINOIS 60196

IDOT USE ONLY

RECEIVED
 MAY 17 2019
 PLATS & LEGALS

PARTS OF, SE 1/4 OF SECTION 33, TWP. 35 N. R 13 E., AND NE 1/4 OF SECTION 4, TWP. 34 N., R. 13 E., OF THE 3RD. P.M., IN COOK COUNTY AND WILL COUNTY, ILLINOIS.

| PARCEL NUMBER | TOTAL HOLDINGS ACRES | PART TAKEN ACRES | AREA IN EXISTING R.O.W. ACRES | REMAINDER AREA ACRES | EASEMENT AREA | | PARCEL INDEX NUMBER |
|---------------|----------------------|------------------|-------------------------------|----------------------|---------------|-------------|--------------------------------------|
| | | | | | ACRES | SQUARE FEET | |
| OLY0001PE | 0.855 | | | | 0.002 | 86 | 31-33-401-007 |
| OLY0001TE | | | | | 0.008 | 349 | |
| OLY0002TE | 91.768 | | | | 0.016 | | 21-14-04-200-001 21-14-04-200-006 |



LEGEND

- SECTION CORNER
- QUARTER SECTION CORNER
- SECTION / QUARTER SECTION LINE
- PLATTED LOT LINES
- PROPERTY (DEED) LINE
- APL APPARENT PROPERTY LINE
- EXISTING CENTERLINE
- PROPOSED CENTERLINE
- EXISTING RIGHT OF WAY LINE
- PROPOSED RIGHT OF WAY LINE
- EXISTING EASEMENT
- PROPOSED EASEMENT
- AC EXISTING ACCESS CONTROL LINE
- AC PROPOSED ACCESS CONTROL LINE
- MEASURED DIMENSION
- COMPUTED DIMENSION (129.32')
- RECORDED DIMENSION
- EXISTING BUILDING

Scale: 1" = 100'

- BEARINGS AND DISTANCES SHOWN HEREON REFERENCE THE ILLINOIS STATE PLANE COORDINATE SYSTEM, EAST ZONE, NORTH AMERICAN DATUM OF 1983 (2011 ADJUSTMENT) "GRID". ALL MEASURED AND CALCULATED DISTANCES ARE "GRID" NOT "GROUND". TO OBTAIN GROUND DISTANCES, DIVIDE GRID DISTANCES SHOWN BY THE COMBINATION FACTOR OF 0.99998016. AREAS SHOWN ON THIS PLAT ARE GROUND. ALL DIMENSIONS ARE MEASURED UNLESS OTHERWISE SPECIFIED.
- IRON PIPE OR ROD FOUND
 - ⊕ "MAG" OR "PK" NAIL SET OR FOUND
 - + CUT CROSS FOUND OR SET
 - 5/8" REBAR SET
 - STAKING OF PROPOSED RIGHT OF WAY. SET DIVISION OF HIGHWAYS SURVEY MARKER TO MONUMENT THE POSITION SHOWN. IDENTIFIED BY INSCRIPTION DATA AND SURVEYORS REGISTRATION NUMBER.
 - M STAKING OF PROPOSED RIGHT OF WAY IN CULTIVATED AREAS. BURIED 5/8 INCH METAL ROD 20 INCHES BELOW GROUND TO MARK FUTURE SURVEY MARKER POSITION IDENTIFIED BY COLORED PLASTIC CAP BEARING SURVEYORS REGISTRATION NUMBER.
 - ⊙ PERMANENT SURVEY MARKER, I.D.O.T. STANDARD 667101-02 (TO BE SET BY OTHERS)
 - RIGHT OF WAY STAKING PROPOSED TO BE SET

STATE OF ILLINOIS)
) SS
 COUNTY OF KANE)

THIS IS TO CERTIFY THAT WE, ASM CONSULTANTS, INC., AN ILLINOIS PROFESSIONAL DESIGN FIRM LAND SURVEYING CORPORATION, NUMBER 184-6014, HAVE SURVEYED THE PLAT OF HIGHWAYS SHOWN HEREON IN SECTIONS 4 AND 33, TOWNSHIP 35 NORTH, RANGE 13 EAST OF THE THIRD PRINCIPAL MERIDIAN, WILL COUNTY, THAT THE SURVEY IS TRUE AND COMPLETE AS SHOWN TO THE BEST OF MY KNOWLEDGE AND BELIEF. THAT THE PLAT CORRECTLY REPRESENTS SAID SURVEY, THAT ALL MONUMENTS FOUND AND ESTABLISHED ARE OF PERMANENT QUALITY AND OCCUPY THE POSITIONS SHOWN THEREON AND THAT THE MONUMENTS ARE SUFFICIENT TO ENABLE THE SURVEY TO BE RETRACED, MADE FOR THE DEPARTMENT OF TRANSPORTATION, STATE OF ILLINOIS.

DATED AT BATAVIA, ILLINOIS THIS th DAY
 OF MAY 2019, A.D.

ILLINOIS PROFESSIONAL LAND SURVEYOR NO. 035-3377
 LICENSE EXPIRATION DATE: 11/30/2020.

THIS PROFESSIONAL SERVICE CONFORMS TO THE CURRENT ILLINOIS MINIMUM STANDARDS FOR A BOUNDARY SURVEY.



ADVANCED SURVEYING & MAPPING

AS

ASM Consultants, Inc.
 16 E Wilson St, Batavia IL 60510
 Tel (630) 879-0200 Fax (630) 454-3774
 advanced@advct.com
 Professional Design Firm #184-006014 expires 4/30/2019

PLAT OF HIGHWAYS
 STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION
 IL 50 AT STEGER ROAD

SECTION: COOK & WILL COUNTY
 PROJECT: JOB NO. 90-009-16
 STATION: TO STATION:
 SCALE: 1" = 100' SHEET 3 OF 3

BUREAU OF LAND ACQUISITION
 201 WEST CENTER COURT
 SCHAUMBURG, ILLINOIS 60196

IDOT USE ONLY

RECEIVED
 MAY 17 2019

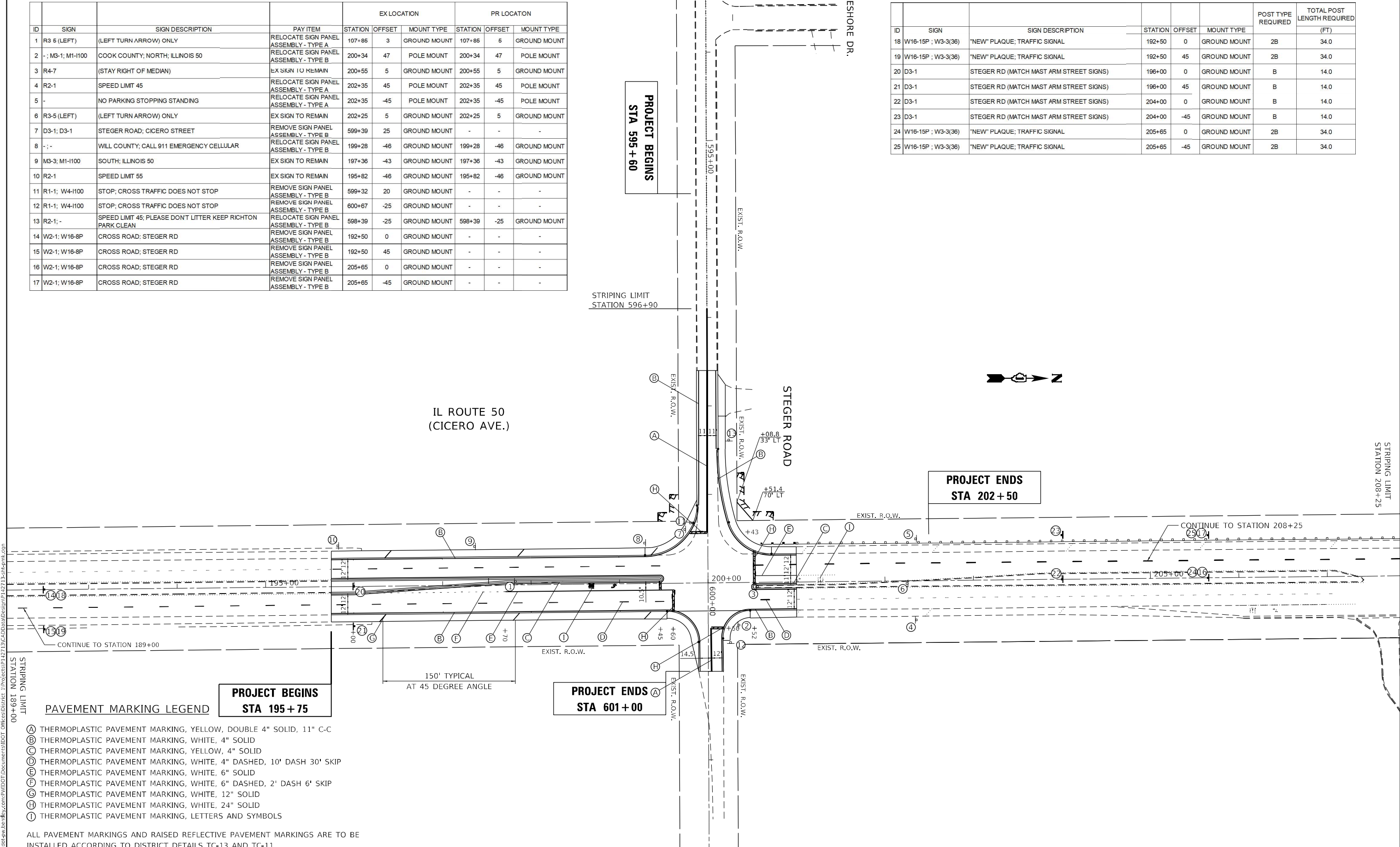
PLATS & LEGALS

EXISTING SIGNS

| ID | SIGN | SIGN DESCRIPTION | PAY ITEM | EX LOCATION | | | PR LOCATON | | |
|----|-------------------|---|---------------------------------------|-------------|--------|--------------|------------|--------|--------------|
| | | | | STATION | OFFSET | MOUNT TYPE | STATION | OFFSET | MOUNT TYPE |
| 1 | R3-5 (LEFT) | (LEFT TURN ARROW) ONLY | RELOCATE SIGN PANEL ASSEMBLY - TYPE A | 197+86 | 3 | GROUND MOUNT | 197+86 | 5 | GROUND MOUNT |
| 2 | - ; M3-1; M1-H100 | COOK COUNTY; NORTH; ILLINOIS 50 | RELOCATE SIGN PANEL ASSEMBLY - TYPE B | 200+34 | 47 | POLE MOUNT | 200+34 | 47 | POLE MOUNT |
| 3 | R4-7 | (STAY RIGHT OF MEDIAN) | EX SIGN TO REMAIN | 200+55 | 5 | GROUND MOUNT | 200+55 | 5 | GROUND MOUNT |
| 4 | R2-1 | SPEED LIMIT 45 | RELOCATE SIGN PANEL ASSEMBLY - TYPE A | 202+35 | 45 | POLE MOUNT | 202+35 | 45 | POLE MOUNT |
| 5 | - | NO PARKING STOPPING STANDING | RELOCATE SIGN PANEL ASSEMBLY - TYPE A | 202+35 | -45 | POLE MOUNT | 202+35 | -45 | POLE MOUNT |
| 6 | R3-5 (LEFT) | (LEFT TURN ARROW) ONLY | EX SIGN TO REMAIN | 202+25 | 5 | GROUND MOUNT | 202+25 | 5 | GROUND MOUNT |
| 7 | D3-1; D3-1 | STEGER ROAD; CICERO STREET | REMOVE SIGN PANEL ASSEMBLY - TYPE B | 599+39 | 25 | GROUND MOUNT | - | - | - |
| 8 | - ; - | WILL COUNTY; CALL 911 EMERGENCY CELLULAR | RELOCATE SIGN PANEL ASSEMBLY - TYPE B | 199+28 | -46 | GROUND MOUNT | 199+28 | -46 | GROUND MOUNT |
| 9 | M3-3; M1-H100 | SOUTH; ILLINOIS 50 | EX SIGN TO REMAIN | 197+36 | -43 | GROUND MOUNT | 197+36 | -43 | GROUND MOUNT |
| 10 | R2-1 | SPEED LIMIT 55 | EX SIGN TO REMAIN | 195+82 | -46 | GROUND MOUNT | 195+82 | -46 | GROUND MOUNT |
| 11 | R1-1; W4-H100 | STOP; CROSS TRAFFIC DOES NOT STOP | REMOVE SIGN PANEL ASSEMBLY - TYPE B | 599+32 | 20 | GROUND MOUNT | - | - | - |
| 12 | R1-1; W4-H100 | STOP; CROSS TRAFFIC DOES NOT STOP | REMOVE SIGN PANEL ASSEMBLY - TYPE B | 600+67 | -25 | GROUND MOUNT | - | - | - |
| 13 | R2-1; - | SPEED LIMIT 45; PLEASE DON'T LITTER KEEP RICHTON PARK CLEAN | RELOCATE SIGN PANEL ASSEMBLY - TYPE B | 598+39 | -25 | GROUND MOUNT | 598+39 | -25 | GROUND MOUNT |
| 14 | W2-1; W16-8P | CROSS ROAD; STEGER RD | REMOVE SIGN PANEL ASSEMBLY - TYPE B | 192+50 | 0 | GROUND MOUNT | - | - | - |
| 15 | W2-1; W16-8P | CROSS ROAD; STEGER RD | REMOVE SIGN PANEL ASSEMBLY - TYPE B | 192+50 | 45 | GROUND MOUNT | - | - | - |
| 16 | W2-1; W16-8P | CROSS ROAD; STEGER RD | REMOVE SIGN PANEL ASSEMBLY - TYPE B | 205+65 | 0 | GROUND MOUNT | - | - | - |
| 17 | W2-1; W16-8P | CROSS ROAD; STEGER RD | REMOVE SIGN PANEL ASSEMBLY - TYPE B | 205+65 | -45 | GROUND MOUNT | - | - | - |

PROPOSED SIGNS

| ID | SIGN | SIGN DESCRIPTION | STATION | OFFSET | MOUNT TYPE | POST TYPE REQUIRED | TOTAL POST LENGTH REQUIRED |
|----|--------------------|---|---------|--------|--------------|--------------------|----------------------------|
| | | | | | | | (FT) |
| 18 | W16-15P ; W3-3(36) | "NEW" PLAQUE; TRAFFIC SIGNAL | 192+50 | 0 | GROUND MOUNT | 2B | 34.0 |
| 19 | W16-15P ; W3-3(36) | "NEW" PLAQUE; TRAFFIC SIGNAL | 192+50 | 45 | GROUND MOUNT | 2B | 34.0 |
| 20 | D3-1 | STEGER RD (MATCH MAST ARM STREET SIGNS) | 196+00 | 0 | GROUND MOUNT | B | 14.0 |
| 21 | D3-1 | STEGER RD (MATCH MAST ARM STREET SIGNS) | 196+00 | 45 | GROUND MOUNT | B | 14.0 |
| 22 | D3-1 | STEGER RD (MATCH MAST ARM STREET SIGNS) | 204+00 | 0 | GROUND MOUNT | B | 14.0 |
| 23 | D3-1 | STEGER RD (MATCH MAST ARM STREET SIGNS) | 204+00 | -45 | GROUND MOUNT | B | 14.0 |
| 24 | W16-15P ; W3-3(36) | "NEW" PLAQUE; TRAFFIC SIGNAL | 205+65 | 0 | GROUND MOUNT | 2B | 34.0 |
| 25 | W16-15P ; W3-3(36) | "NEW" PLAQUE; TRAFFIC SIGNAL | 205+65 | -45 | GROUND MOUNT | 2B | 34.0 |



PAVEMENT MARKING LEGEND

- (A) THERMOPLASTIC PAVEMENT MARKING, YELLOW, DOUBLE 4" SOLID, 11" C-C
- (B) THERMOPLASTIC PAVEMENT MARKING, WHITE, 4" SOLID
- (C) THERMOPLASTIC PAVEMENT MARKING, YELLOW, 4" SOLID
- (D) THERMOPLASTIC PAVEMENT MARKING, WHITE, 4" DASHED, 10' DASH 30' SKIP
- (E) THERMOPLASTIC PAVEMENT MARKING, WHITE, 6" SOLID
- (F) THERMOPLASTIC PAVEMENT MARKING, WHITE, 6" DASHED, 2' DASH 6' SKIP
- (G) THERMOPLASTIC PAVEMENT MARKING, WHITE, 12" SOLID
- (H) THERMOPLASTIC PAVEMENT MARKING, WHITE, 24" SOLID
- (I) THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS

ALL PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKINGS ARE TO BE INSTALLED ACCORDING TO DISTRICT DETAILS TC-13 AND TC-11

| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowsdr | DESIGNED - RR | REVISED - |
| DRAWN - RR | REVISOR - | |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 9/24/2021 | DATE - 8/13/2021 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT MARKING AND SIGNAGE PLANS
IL ROUTE 50 AT STEGER ROAD

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. - TO STA. -

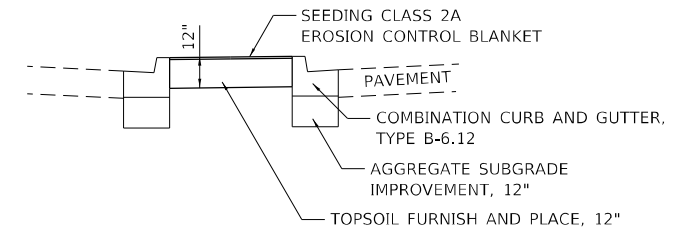
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 42 |
| CONTRACT NO. 62F87 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

MODEL: Default
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 PLOT DATE: 9/24/2021
 PLOT SCALE: 100,0000' / in.

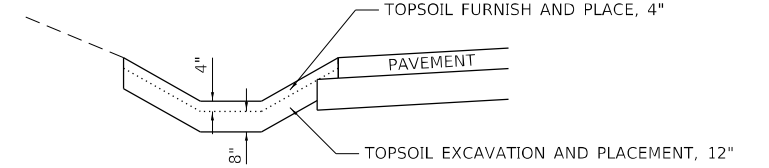
LANDSCAPING LEGEND

- SEEDING, CLASS 2A
TOPSOIL EXCAVATION AND PLACEMENT, 12"
TOPSOIL FURNISH AND PLACE, 4"
EROSION CONTROL BLANKET
- SEEDING, CLASS 4A (MODIFIED)
TOPSOIL EXCAVATION AND PLACEMENT, 12"
TOPSOIL FURNISH AND PLACE, 4"
EROSION CONTROL BLANKET
- SEEDING, CLASS 4B (MODIFIED)
TOPSOIL EXCAVATION AND PLACEMENT, 12"
TOPSOIL FURNISH AND PLACE, 4"
EROSION CONTROL BLANKET
- SEEDING, CLASS 4A (MODIFIED)
MULCH, METHOD 3
- SEEDING, CLASS 2A
TOPSOIL FURNISH AND PLACE, 12"
EROSION CONTROL BLANKET

LANDSCAPED MEDIAN DETAIL

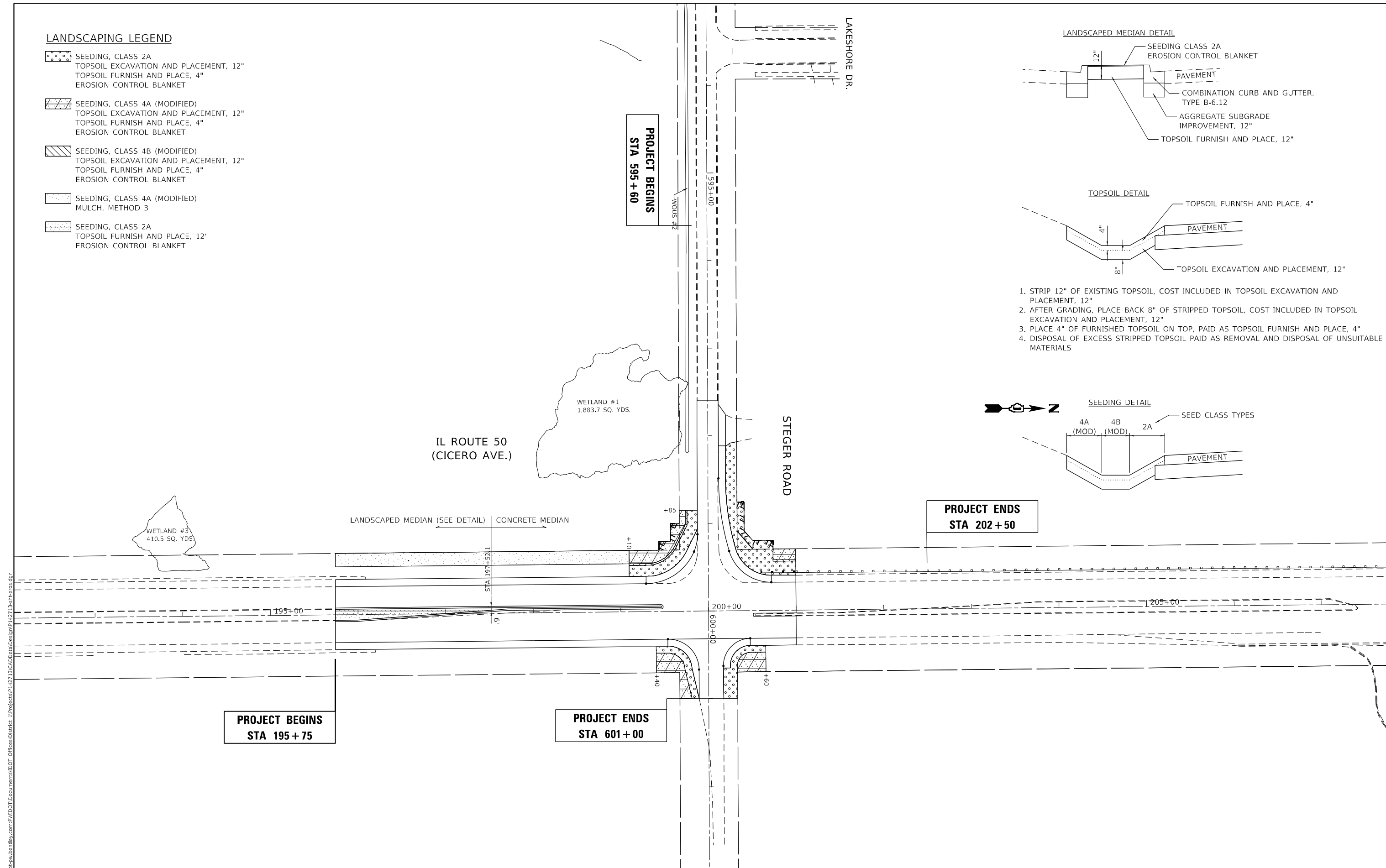
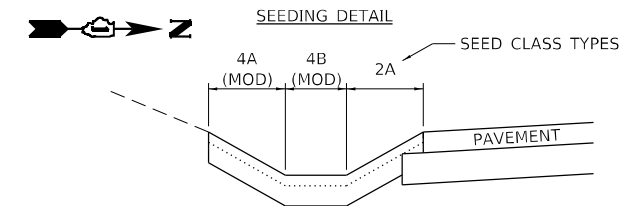


TOPSOIL DETAIL



1. STRIP 12" OF EXISTING TOPSOIL, COST INCLUDED IN TOPSOIL EXCAVATION AND PLACEMENT, 12"
2. AFTER GRADING, PLACE BACK 8" OF STRIPPED TOPSOIL, COST INCLUDED IN TOPSOIL EXCAVATION AND PLACEMENT, 12"
3. PLACE 4" OF FURNISHED TOPSOIL ON TOP, PAID AS TOPSOIL FURNISH AND PLACE, 4"
4. DISPOSAL OF EXCESS STRIPPED TOPSOIL PAID AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIALS

SEEDING DETAIL



MODEL: Default
 FILE: \\miller-pc\public\aw_bentley.com\PIV\DOT\Documents\DOT Office\District 11\Projects\112713\CADD\Drawings\112713-01-000-00.dwg
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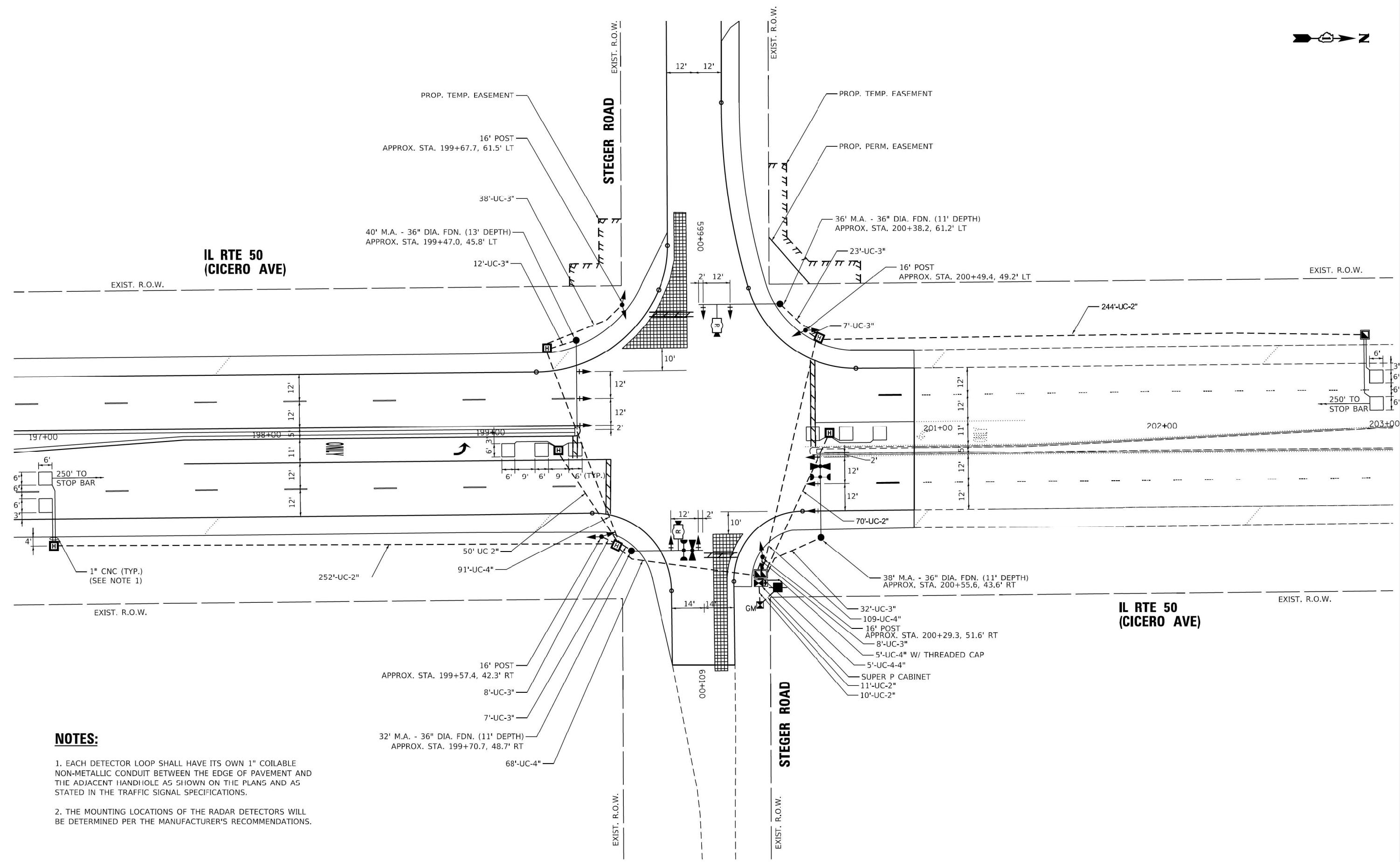
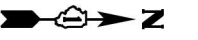
| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowsdir | DESIGNED - RR | REVISED - |
| DRAWN - RR | CHECKED - LP | REVISED - |
| PLOT SCALE = 100,0000' / in. | DATE - 8/13/2021 | REVISED - |
| PLOT DATE = 8/16/2021 | | |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

LANDSCAPING PLAN
IL ROUTE 50 AT STEGER ROAD

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. - TO STA. -

| | | | | |
|---------------------------|------------|-----------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK/WILL | 87 | 43 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS FED. AID PROJECT | | | | |



NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.

MODEL: Default
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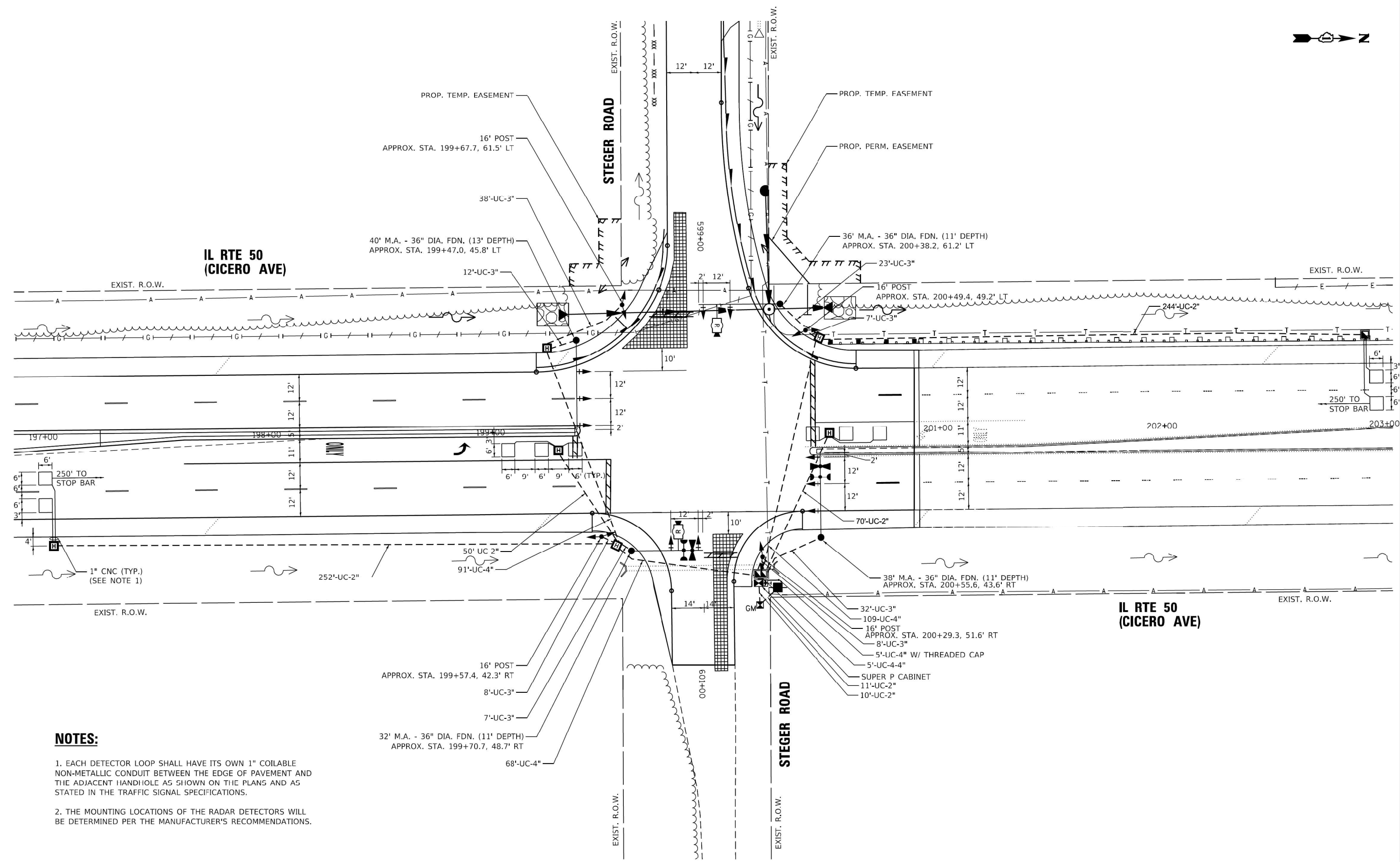
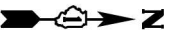
TranSmart
 411 South Wells Street Suite 1000
 Chicago, Illinois 60607

| | | |
|-----------------------------|----------------------|-----------|
| USER NAME = ggedemer | DESIGNED - R. JACOX | REVISED - |
| | DRAWN - P. SCOTT | REVISED - |
| PLOT SCALE = 40,0000' / in. | CHECKED - G. GEDEMER | REVISED - |
| PLOT DATE = 8/9/2021 | DATE - 8/9/2021 | REVISED - |

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

| | | | | | | |
|--|--|-----------------|---------------|--------------|--------------|---------------------------|
| TRAFFIC SIGNAL INSTALLATION PLAN IL RTE 50 (CICERO AVE) AND STEGER RD | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | 350 | 101W - N (17) | COOK | 87 | 44 |
| SCALE: | | SHEET OF SHEETS | | STA. TO STA. | | CONTRACT NO. 62F87 |
| | | | | | | ILLINOIS FED. AID PROJECT |

TS 7551



NOTES:

1. EACH DETECTOR LOOP SHALL HAVE ITS OWN 1" COILABLE NON-METALLIC CONDUIT BETWEEN THE EDGE OF PAVEMENT AND THE ADJACENT HANDHOLE AS SHOWN ON THE PLANS AND AS STATED IN THE TRAFFIC SIGNAL SPECIFICATIONS.
2. THE MOUNTING LOCATIONS OF THE RADAR DETECTORS WILL BE DETERMINED PER THE MANUFACTURER'S RECOMMENDATIONS.

MODEL: Default
 FILE NAME: S:\projects\1801 - IDOT Traffic Signal Design - E:\proj\project\Work\CADD\WD 18-004 - IL50 StegerCADD Sheets\18-004_sht 15 001-dtl1801.dgn



| | | |
|-----------------------------|----------------------|-----------|
| USER NAME = ggedemer | DESIGNED - R. JACOX | REVISED - |
| | DRAWN - P. SCOTT | REVISED - |
| PLOT SCALE = 40,0000' / in. | CHECKED - G. GEDEMER | REVISED - |
| PLOT DATE = 8/9/2021 | DATE - 8/9/2021 | REVISED - |

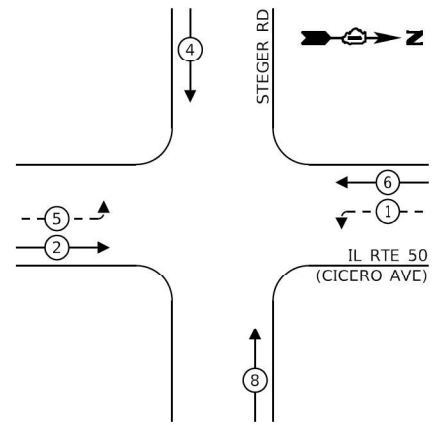
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

| | | | |
|---|-------|-----------|--------------|
| TRAFFIC SIGNAL INSTALLATION PLAN - UTILITIES | | | |
| IL RTE 50 (CICERO AVE) AND STEGER RD | | | |
| SCALE: | SHEET | OF SHEETS | STA. TO STA. |

| | | | | |
|---------------------------|---------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W - N (17) | COOK | 87 | 45 |
| CONTRACT NO. 62F87 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

TS 7551

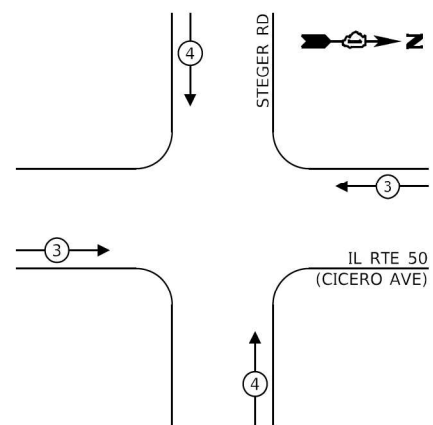
PROPOSED CONTROLLER SEQUENCE



LEGEND:

- ← (P) → PROTECTED PHASE
- ← (P) → PROTECTED/PERMITTED PHASE
- ← (P) → PEDESTRIAN PHASE
- ← (OL) → OVERLAP

PROPOSED EMERGENCY VEHICLE PREEMPTION SEQUENCE



TRAFFIC SIGNAL ELECTRICAL SERVICE REQUIREMENTS

| TYPE | NO. OF LAMPS | LED WATTAGE | % OPERATION | TOTAL WATTAGE |
|------------------|--------------|-------------|-------------|---------------|
| SIGNAL (RED) | 18 | 11 | 50 | 99.0 |
| (YELLOW) | 18 | 20 | 5 | 18.0 |
| (GREEN) | 18 | 12 | 45 | 97.2 |
| PERMISSIVE ARROW | 8 | 10 | 10 | 8.0 |
| PED. SIGNAL | 0 | 20 | 100 | - |
| CONTROLLER | 1 | 100 | 100 | 100.0 |
| UPS | 1 | 25 | 100 | 25.0 |
| VIDEO SYSTEM | - | 150 | 100 | - |
| BLANK-OUT SIGN | - | 25 | 5 | - |
| FLASHER | - | - | 50 | - |
| STREET NAME SIGN | - | 120 | 50 | - |
| LUMINAIRE | - | - | - | - |
| TOTAL = | | | | 347.2 |

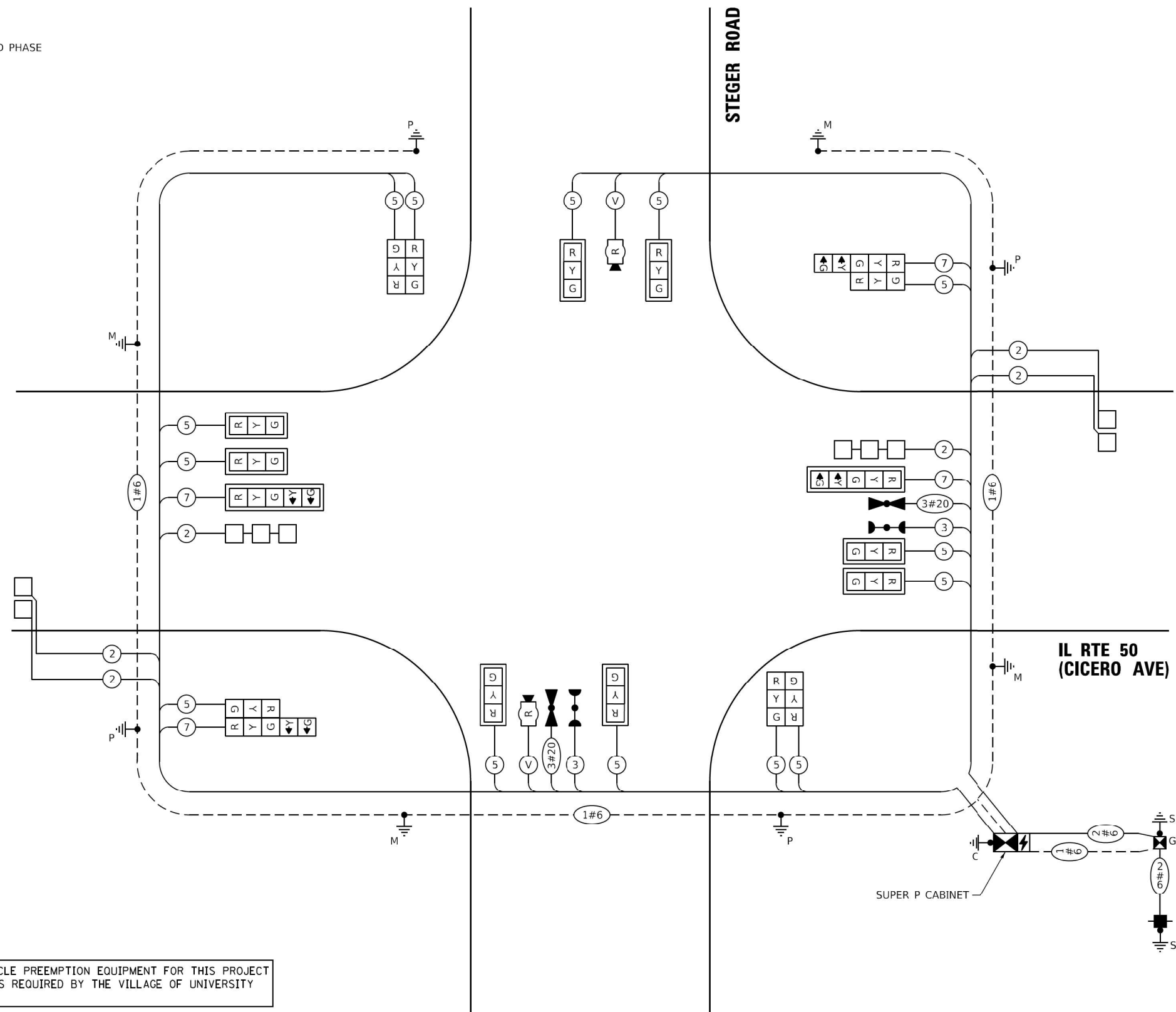
ENERGY COSTS TO:

VILLAGE OF UNIVERSITY PARK
698 BURNHAM DR
UNIVERSITY PARK, IL 60484

ENERGY SUPPLY: CONTACT: ILYAS MOHIUDDIN
PHONE: (708) 235-2692
COMPANY: COMMONWEALTH EDISON
ACCOUNT NUMBER: 06901 24013

THE EMERGENCY VEHICLE PREEMPTION EQUIPMENT FOR THIS PROJECT SHALL BE OPTICOM AS REQUIRED BY THE VILLAGE OF UNIVERSITY PARK

CABLE PLAN
(NOT TO SCALE)



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL RTE 50 (CICERO AVE) AND STEGER RD

SCALE: NONE SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|---------------|--------|--------------|-----------|
| 350 | 101W - N (17) | COOK | 87 | 46 |
| CONTRACT NO. 62F87 | | | | |

TS 7551

MODEL: Default; FILE NAME: S:\projects\3511801 - IDOT Traffic Signal Design - Emergency Vehicle Preemption Sequence - IL RTE 50 (Cicero Ave) and Steger Rd.dwg; SHEET: 18 of 18; DATE: 8/9/2021

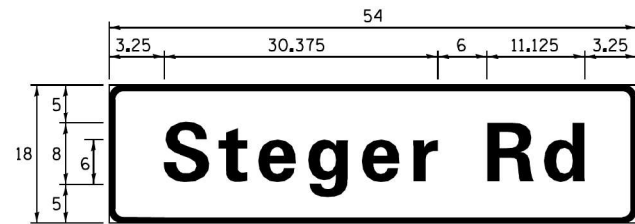
TranSmart
411 South Wells Street Suite 1000
Chicago, Illinois 60607

| | | |
|------------------------------|----------------------|-----------|
| USER NAME = ggedemer | DESIGNED - R. JACOX | REVISED - |
| PLOT SCALE = 40,0000 * / ft. | DRAWN - P. SCOTT | REVISED - |
| PLOT DATE = 8/9/2021 | CHECKED - G. GEDEMER | REVISED - |
| | DATE - 8/9/2021 | REVISED - |

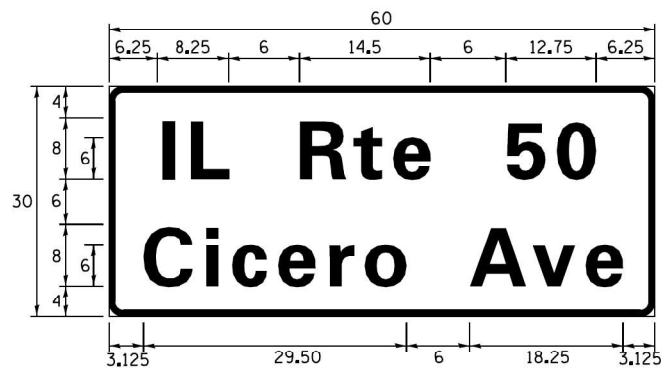
ILLINOIS FED. AID PROJECT

SIGN PANEL – TYPE 1 OR TYPE 2

ALL DIMENSIONS ARE IN INCHES UNLESS NOTED OTHERWISE



| DESIGN SERIES | AREA (SQ FT) | SIGN PANEL TYPE | SHEETING TYPE | QTY. REQUIRED |
|---------------|--------------|-----------------|---------------|---------------|
| D | 6.75 | 1 | ZZ | 2 |



| DESIGN SERIES | AREA (SQ FT) | SIGN PANEL TYPE | SHEETING TYPE | QTY. REQUIRED |
|---------------|--------------|-----------------|---------------|---------------|
| D | 12.50 | 2 | ZZ | 2 |

NOTE: FOR ADDITIONAL DESIGN AND INSTALLATION INFORMATION PLEASE SEE DISTRICT ONE MAST ARM MOUNTED STREET NAME SIGNS DETAIL.

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY. |
|--|-------|------------|
| SIGN PANEL - TYPE 1 | SQ FT | 13.5 |
| SIGN PANEL - TYPE 2 | SQ FT | 25 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 2" DIA. | FOOT | 637 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 3" DIA. | FOOT | 135 |
| UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 293 |
| HANDHOLE | EACH | 1 |
| HEAVY-DUTY HANDHOLE | EACH | 6 |
| DOUBLE HANDHOLE | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 3C | FOOT | 271 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 5C | FOOT | 2,316 |
| ELECTRIC CABLE IN CONDUIT, SIGNAL NO. 14 7C | FOOT | 671 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 1,741 |
| ELECTRIC CABLE IN CONDUIT, SERVICE, NO. 6 2 C | FOOT | 60 |
| ELECTRIC CABLE IN CONDUIT, EQUIPMENT GROUNDING CONDUCTOR, NO. 6 1C | FOOT | 617 |
| TRAFFIC SIGNAL POST, GALVANIZED STEEL 16 FT. | EACH | 4 |
| STEEL MAST ARM ASSEMBLY AND POLE, 32 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 36 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 38 FT. | EACH | 1 |
| STEEL MAST ARM ASSEMBLY AND POLE, 40 FT. | EACH | 1 |
| CONCRETE FOUNDATION, TYPE A | FOOT | 20 |
| CONCRETE FOUNDATION, TYPE C | FOOT | 4 |
| CONCRETE FOUNDATION, TYPE E 36-INCH DIAMETER | FOOT | 46 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, MAST-ARM MOUNTED | FOOT | 8 |
| SIGNAL HEAD, LED, 1-FACE, 3-SECTION, BRACKET MOUNTED | EACH | 6 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, BRACKET MOUNTED | EACH | 2 |
| SIGNAL HEAD, LED, 1-FACE, 5-SECTION, MAST-ARM MOUNTED | EACH | 2 |
| TRAFFIC SIGNAL BACKPLATE, LOUVERED, FORMED PLASTIC | EACH | 10 |
| INDUCTIVE LOOP DETECTOR | EACH | 6 |
| DETECTOR LOOP, TYPE I | EACH | 361 |
| LIGHT DETECTOR | FOOT | 2 |
| LIGHT DETECTOR AMPLIFIER | EACH | 1 |
| EMERGENCY VEHICLE PRIORITY SYSTEM LINE SENSOR CABLE, NO. 20 3/C | EACH | 271 |
| FULL-ACTUATED CONTROLLER AND TYPE SUPER P CABINET | FOOT | 1 |
| SERVICE INSTALLATION, GROUND MOUNTED, METERED | EACH | 1 |
| RADAR VEHICLE DETECTION SYSTEM, SINGLE APPROACH, STOP BAR | EACH | 2 |
| UNINTERRUPTABLE POWER SUPPLY, SPECIAL | EACH | 1 |

MODEL: Default; FILE NAME: S:\projects\1801 - IDOT Traffic Signal Design - E:\MP\Project Work\CADD\WD_18-004 - IL50 Steger\CADD_Sheets\18-004_sht_13_003.dgn

| | | |
|----------------------------|----------------------|-----------|
| USER NAME = ggedemer | DESIGNED - R. JACOX | REVISED - |
| | DRAWN - P. SCOTT | REVISED - |
| PLOT SCALE = 40.0000" / 1" | CHECKED - G. GEDEMER | REVISED - |
| PLOT DATE = 8/9/2021 | DATE - 8/9/2021 | REVISED - |

| | | | |
|---|-----------------|--------------|--|
| MAST ARM MOUNTED STREET NAME SIGNS AND SCHEDULE OF QUANTITIES IL RTE 50 (CICERO AVE) AND STEGER RD | | | |
| SCALE: NONE | SHEET OF SHEETS | STA. TO STA. | |

| | | | | |
|---------------------------|---------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W - N (17) | COOK | 87 | 47 |
| CONTRACT NO. 62F87 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

MOTORIST NOTIFICATION FOR TURNING ON NEW TRAFFIC SIGNALS

2 WEEKS PRIOR TO SCHEDULED SIGNAL TURN-ON:

PLACE A CHANGEABLE MESSAGE SIGN (CMS) ON EACH MAINLINE APPROACH TO THE INTERSECTION WHICH READS:

NEW
TRAFFIC
SIGNAL

STARTING
MMM##

(INSERT 3-DIGIT MONTH
ABBREVIATION & DATE
FOR SCHEDULE TURN-ON)

ON THE DAY OF THE TURN-ON:

CHANGE MESSAGES TO READ:

NEW
SIGNAL
AHEAD

BE
PREPARED
TO STOP

RETAIN CHANGEABLE MESSAGE SIGNS FOR 2 WEEKS AFTER SIGNAL TURN-ON.

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| USER NAME = rostkowsdr | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**MOTORIST NOTIFICATION FOR TURNING ON NEW TRAFFIC SIGNALS
IL ROUTE 50 AT STEGER ROAD**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|-----------|--------------|-----------|
| 350 | 101W-N(17) | COOK/WILL | 87 | 48 |
| CONTRACT NO. 62F87 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |














BILL OF MATERIALS

| PAY ITEM | DESCRIPTION | UNIT | QUANTITY |
|----------|---|-------|----------|
| 80400100 | ELECTRIC SERVICE INSTALLATION | EACH | 1 |
| 80400200 | ELECTRIC UTILITY SERVICE CONNECTION | L SUM | 1 |
| 81028240 | UNDERGROUND CONDUIT, GALVANIZED STEEL, 4" DIA. | FOOT | 250 |
| 81603090 | UNIT DUCT, 600V, 3-1/C NO. 4, 1/C NO.6 GROUND. (XLP-TYPE USE). 1 1/4" DIA. POLYETHYLENE | FOOT | 1781 |
| 81702440 | ELECTRIC CABLE IN CONDUIT, 600V (XLP-TYPE USE) 3-1/C NO. 1/0 | FOOT | 50 |
| 81800300 | AERIAL CABLE, 3-1/C NO.2 WITH MESSENGER WIRE | FOOT | 940 |
| 82110007 | LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION G | EACH | 9 |
| 82500335 | LIGHTING CONTROLLER, PEDESTAL MOUNTED, 240 VOLT, 100 AMP | EACH | 1 |
| 83050810 | LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 15 FT. MAST ARM | EACH | 7 |
| 83050910 | LIGHT POLE, ALUMINUM, 47.5 FT. M.H., 2-15 FT. MAST ARMS | EACH | 1 |
| 83057355 | LIGHT POLE, WOOD, 60 FOOT, CLASS 4, WITH 15 FT MAST ARM | EACH | 6 |
| 83600200 | LIGHT POLE FOUNDATION, 24" DIAMETER | FOOT | 140 |
| 83800205 | BREAKAWAY DEVICE, TRANSFORMER BASE, 15 INCH BOLT CIRCLE | EACH | 8 |
| 84100110 | REMOVAL OF TEMPORARY LIGHTING UNIT | EACH | 6 |
| 84200500 | REMOVAL OF LIGHTING UNIT, SALVAGE | EACH | 4 |
| 84200804 | REMOVAL OF POLE FOUNDATION | EACH | 4 |
| X0326654 | ORNAMENTAL LIGHTING UNIT, COMPLETE | EACH | 6 |
| X0327004 | TEMPORARY WOOD POLE, 60 FT. CLASS 4 | EACH | 1 |
| X1400279 | REMOVAL OF TEMPORARY LIGHTING CONTROLLER, NO SALVAGE | EACH | 1 |
| X8211008 | TEMPORARY LUMINAIRE, LED, ROADWAY, OUTPUT DESIGNATION H | EACH | 6 |
| X8250060 | TEMPORARY LIGHTING CONTROLLER | EACH | 1 |
| Z0033020 | LUMINAIRE SAFETY CABLE ASSEMBLY | EACH | 9 |

GENERAL NOTES:

- THIS PROJECT INCLUDES THE INSTALLATION OF A NEW LIGHTING SYSTEM AT THE RECONSTRUCTED INTERSECTION OF IL ROUTE 50 AND STEGER RD. PROPOSED LIGHTING AT THE INTERSECTION INCLUDING TRANSITION LIGHTING SHALL BE OWNED AND MAINTAINED BY THE VILLAGE OF UNIVERSITY PARK. THE EXISTING LIGHTING ON THE NORTH LEG OF IL ROUTE 50 BEYOND THE TRANSITION LIGHTING IS OWNED AND MAINTAINED BY THE VILLAGE OF RICHTON PARK.
- THE CONTRACTOR SHALL CONTACT THE ELECTRIC UTILITY COMPANY TO COORDINATE THE ELECTRIC SERVICE WORK. THE CONTACT PERSON IS ANTIONETTE SANCHEZ AT (630) 918-0039.
- THE QUANTITIES OF RACEWAY WHERE INDICATED ON THESE PLANS ARE APPROXIMATIONS ONLY. THE CONTRACTOR SHALL FIELD VERIFY ALL LENGTHS AND SHALL INSTALL RACEWAYS IN COMPLETE COMPLIANCE WITH THE SPECIFIED REQUIREMENTS.
- THE CONTRACTOR SHALL NOTIFY J.U.L.I.E. TO LOCATE AND MARK/STAKE ALL UNDERGROUND UTILITIES.
- THE CONTRACTOR SHALL VERIFY LOCATIONS OF UNDERGROUND/OVERHEAD UTILITIES PRIOR TO INSTALLATION OF LIGHT POLES AND CONDUITS. IF THERE IS A CONFLICT WITH THE LIGHT POLES/CONDUITS AS SHOWN ON PLANS, THE CONTRACTOR SHALL SUGGEST ALTERNATIVE LOCATIONS AND COORDINATE WITH THE ENGINEER PRIOR TO PERFORMING ANY CONSTRUCTION WORK.
- TRENCHES FOR LIGHTING RACEWAYS SHALL HAVE A MINIMUM DEPTH OF 30".
- LIGHTING SYSTEM INSTALLATION SHALL CONFORM TO THE LATEST IDOT STANDARDS, NEC AND LOCAL CODES.
- ALL ELECTRICAL EQUIPMENT AND PRODUCTS SHALL BE UL LISTED AND LABELED.
- THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING UNIT DUCT TO AVOID CONFLICTS WITH EXISTING UNDERGROUND UTILITIES AND TREE'S ROOTS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL TAKE CARE WHEN INSTALLING LIGHT POLE FOUNDATIONS TO AVOID CONFLICTS WITH UNDERGROUND UTILITIES. WHEN CONFLICTS ARE ENCOUNTERED, THE CONTRACTOR SHALL SUGGEST TO RELOCATE THE FOUNDATIONS. THE NEW LOCATION SHALL BE APPROVED BY THE ENGINEER PRIOR TO INSTALLATION.
- GROUND RODS SHALL BE INSTALLED AT EACH LIGHTING UNIT.
- PROPOSED REGULAR LIGHT POLES WITH 15 FT. MAST ARMS SHALL BE PROVIDED WITH LUMINAIRE SAFETY CABLE ASSEMBLY.

LEGEND

-  EXISTING LIGHTING UNIT TO REMAIN
-  EXISTING LIGHTING UNIT TO BE REMOVED
-  PROPOSED LIGHTING UNIT, 47.5 FT. MH, 15 FT. MAST ARM, (120V-LINE TO NEUTRAL), LED LUMINAIRE WITH BREAKAWAY DEVICE
-  PROPOSED LIGHTING UNIT, 47.5 FT. MH, 2-15 FT. MAST ARMS, (120V-LINE TO NEUTRAL), LED LUMINAIRES WITH BREAKAWAY DEVICE
-  PROPOSED LIGHTING UNIT, 39.75 FT. MH, 3.5 FT. MAST ARM, LED LUMINAIRE WITH BREAKAWAY DEVICE
-  TEMPORARY WOOD POLE, 50 FT. MH, 15 FT. MAST ARM, WITH 240V, LED LUMINAIRE
-  PROPOSED LIGHTING CONTROLLER PEDESTAL MOUNTED, 240 VOLT, 100 AMP
-  TEMPORARY LIGHTING CONTROLLER
-  UNIT DUCT, 600V, 3-1/C NO.6, 1/C NO.8 GROUND, (XLP-TYPE USE), 1" DIA. POLYETHYLENE
-  RIGID GALVANIZED STEEL CONDUIT, WITH UNIT DUCT
-  ELECTRICAL CABLE IN CONDUIT
-  AERIAL CABLE, 3-1/C NO. 2 WITH MESSENGER WIRE
-  GROUND ROD

MODEL Default
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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

| | | |
|------------------------------|-----------------|-----------|
| USER NAME = mideltche | DESIGNED - BL | REVISED - |
| | DRAWN - MD | REVISED - |
| PLOT SCALE = 100.0000' / in. | CHECKED - MB | REVISED - |
| PLOT DATE = 9/16/2021 | DATE - 10-01-21 | REVISED - |

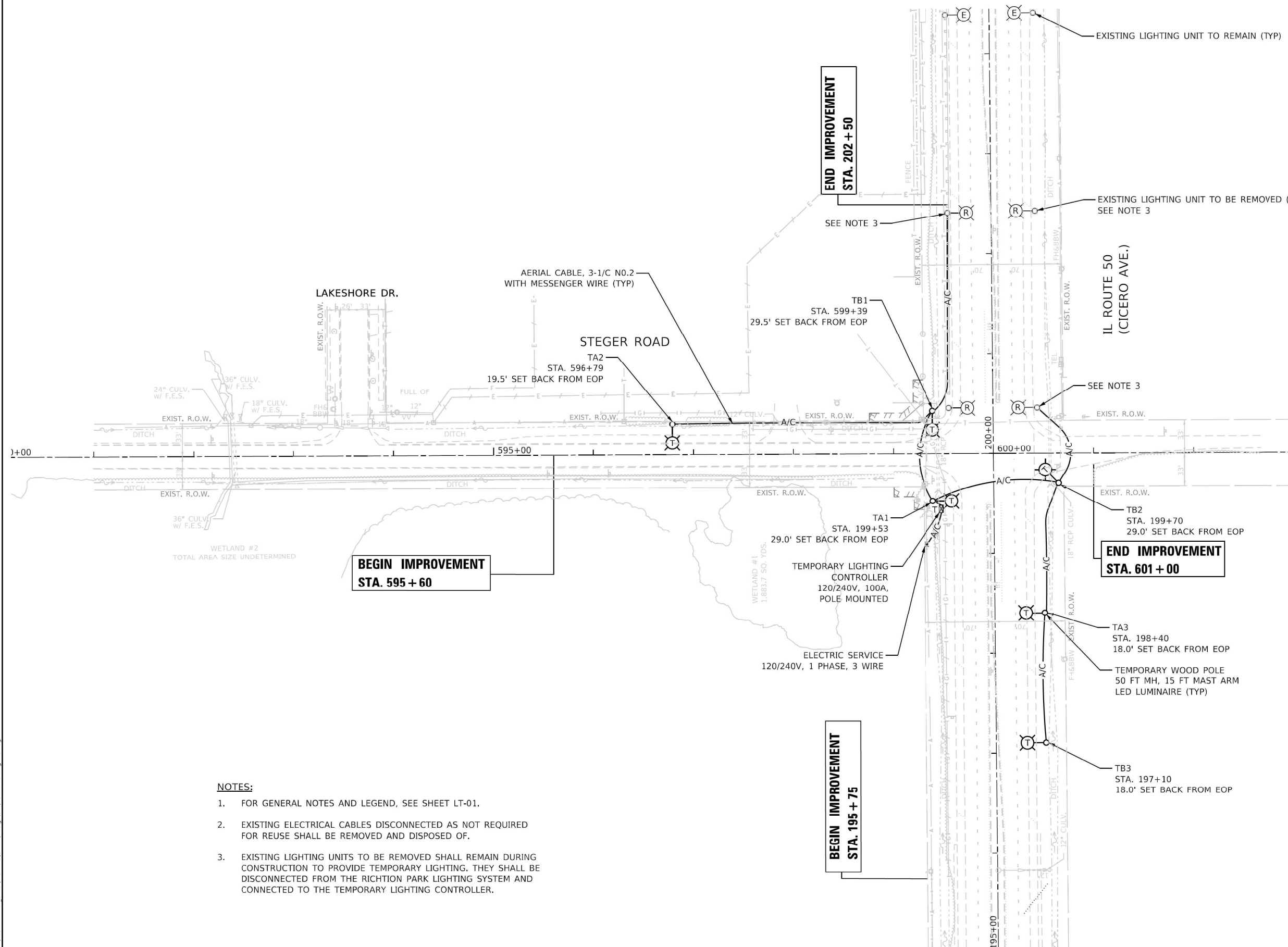
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 50 (CICERO AVENUE) AT STEGER RD.
GENERAL NOTES, BILL OF MATERIALS AND LEGEND**

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

| | | | | |
|--------------------|------------|--------|---------------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK | 87 | 49 |
| CONTRACT NO. 62F87 | | | ILLINOIS FED. AID PROJECT | |

LT-01



NOTES:

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET LT-01.
2. EXISTING ELECTRICAL CABLES DISCONNECTED AS NOT REQUIRED FOR REUSE SHALL BE REMOVED AND DISPOSED OF.
3. EXISTING LIGHTING UNITS TO BE REMOVED SHALL REMAIN DURING CONSTRUCTION TO PROVIDE TEMPORARY LIGHTING. THEY SHALL BE DISCONNECTED FROM THE RICHTION PARK LIGHTING SYSTEM AND CONNECTED TO THE TEMPORARY LIGHTING CONTROLLER.

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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

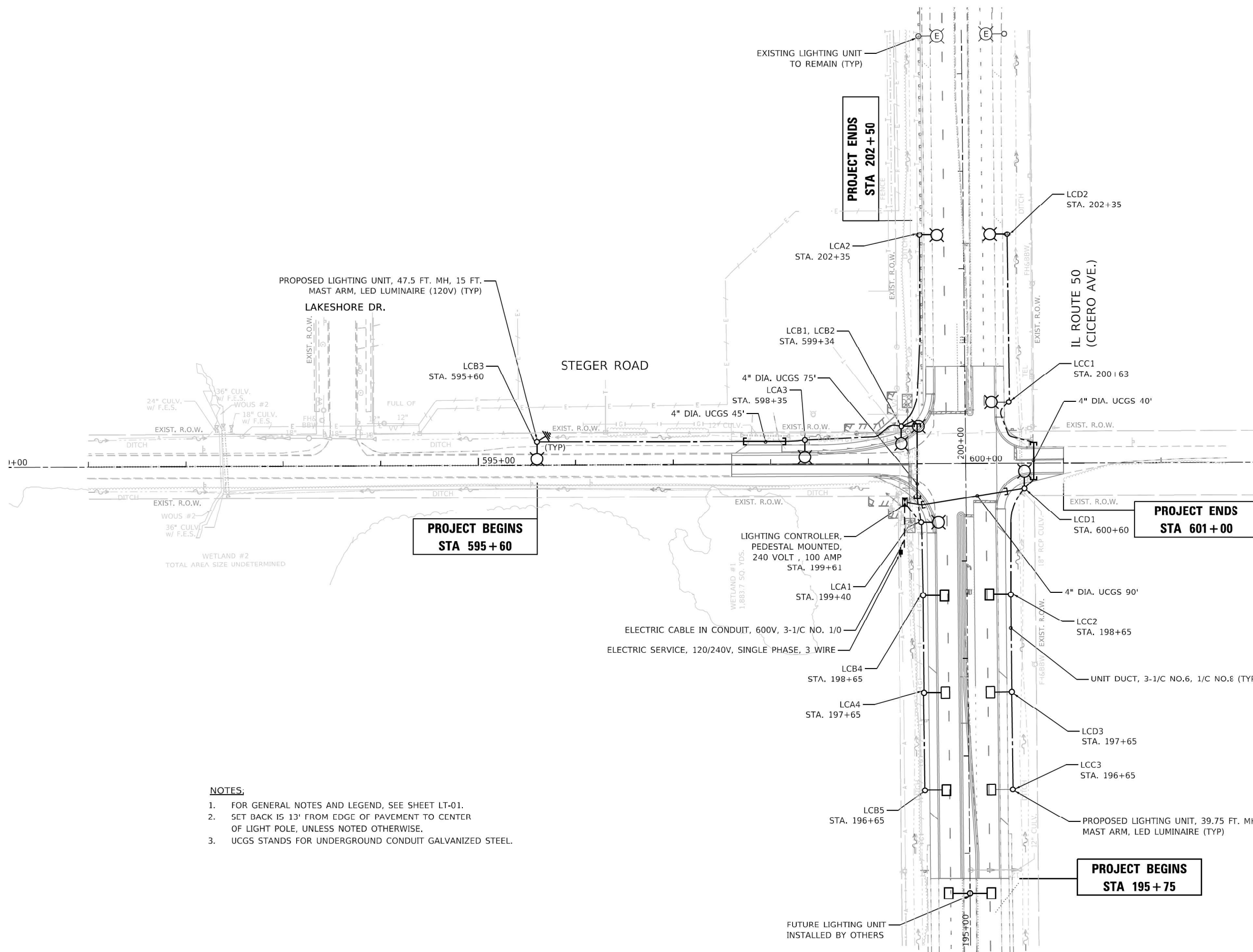
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| PLOT DATE = 9/15/2021 | CHECKED - MB | REVISED - |
| | DATE - 10-01-21 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 50 (CICERO AVENUE) AT STEGER RD.
REMOVAL AND TEMPORARY LIGHTING PLAN**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---------------------------|------------|--------|--------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK | 87 | 50 |
| CONTRACT NO. 62F87 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



NOTES:

1. FOR GENERAL NOTES AND LEGEND, SEE SHEET LT-01.
2. SET BACK IS 13' FROM EDGE OF PAVEMENT TO CENTER OF LIGHT POLE, UNLESS NOTED OTHERWISE.
3. UCGS STANDS FOR UNDERGROUND CONDUIT GALVANIZED STEEL.

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6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

| | | |
|------------------------------|-----------------|-----------|
| USER NAME = mideltche | DESIGNED - BL | REVISED - |
| PLOT SCALE = 100,0000' / in. | DRAWN - MD | REVISED - |
| PLOT DATE = 9/8/2021 | CHECKED - MB | REVISED - |
| | DATE - 08-02-21 | REVISED - |





**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

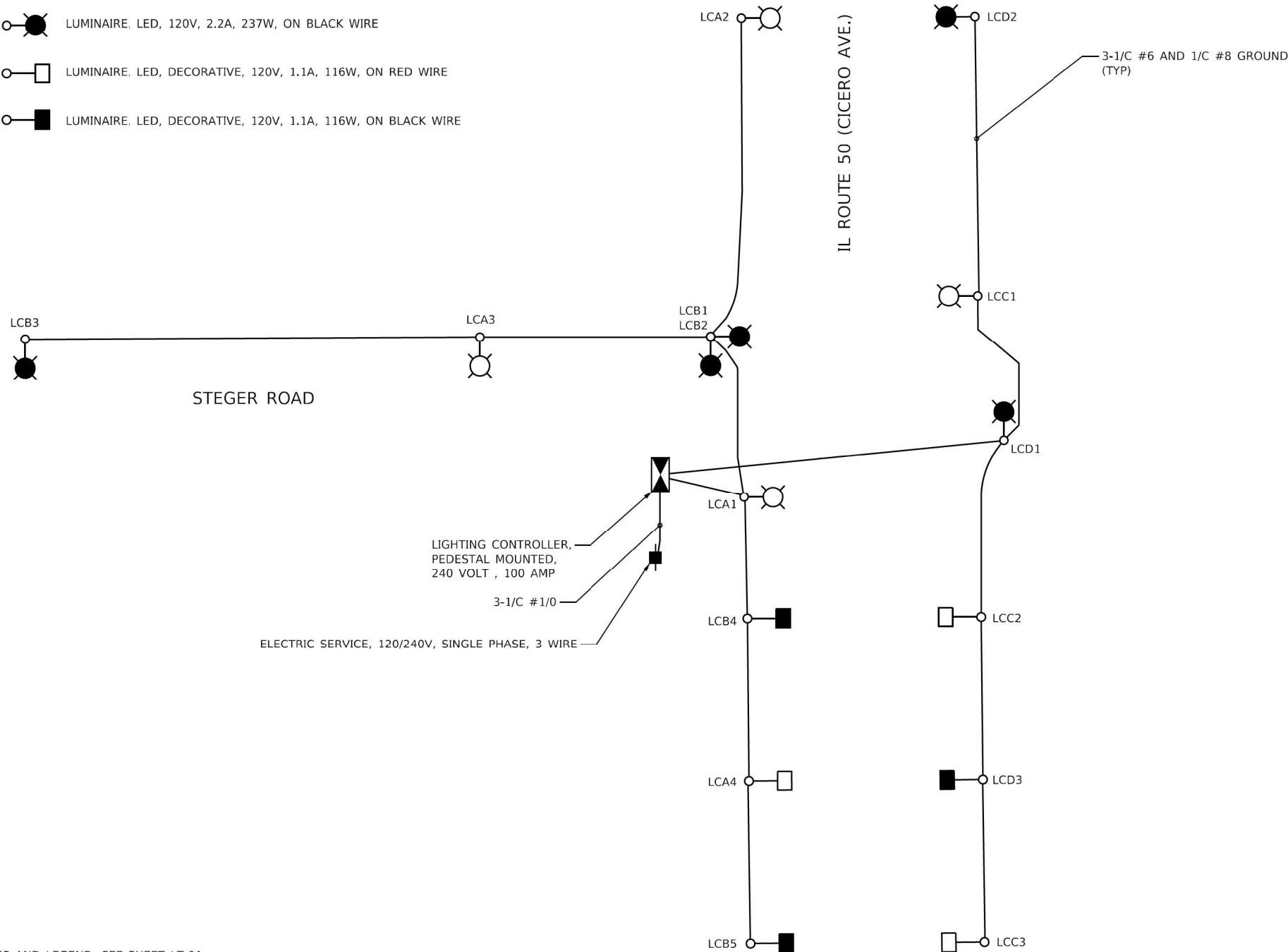
**IL ROUTE 50 (CICERO AVENUE) AT STEGER RD.
PROPOSED LIGHTING PLAN**

SCALE: 1"=50' SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---------------------------|------------|--------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK | 87 | 51 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. 62F87 | |

LEGEND

-  LUMINAIRE, LED, 120V, 2.2A, 237W, ON RED WIRE
-  LUMINAIRE, LED, 120V, 2.2A, 237W, ON BLACK WIRE
-  LUMINAIRE, LED, DECORATIVE, 120V, 1.1A, 116W, ON RED WIRE
-  LUMINAIRE, LED, DECORATIVE, 120V, 1.1A, 116W, ON BLACK WIRE



NOTES:

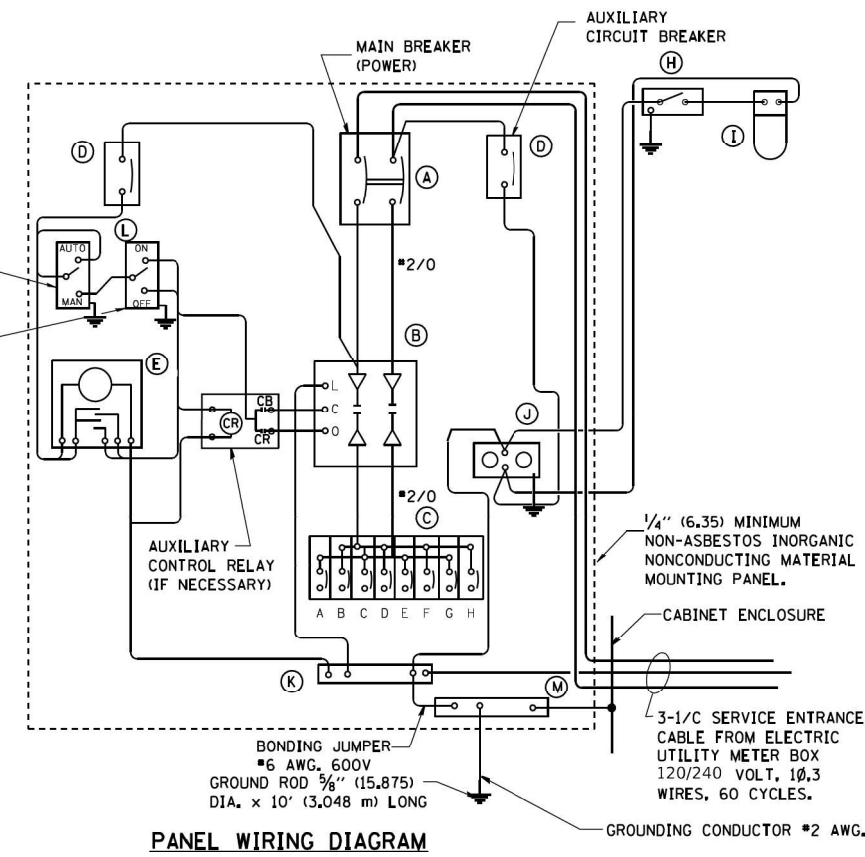
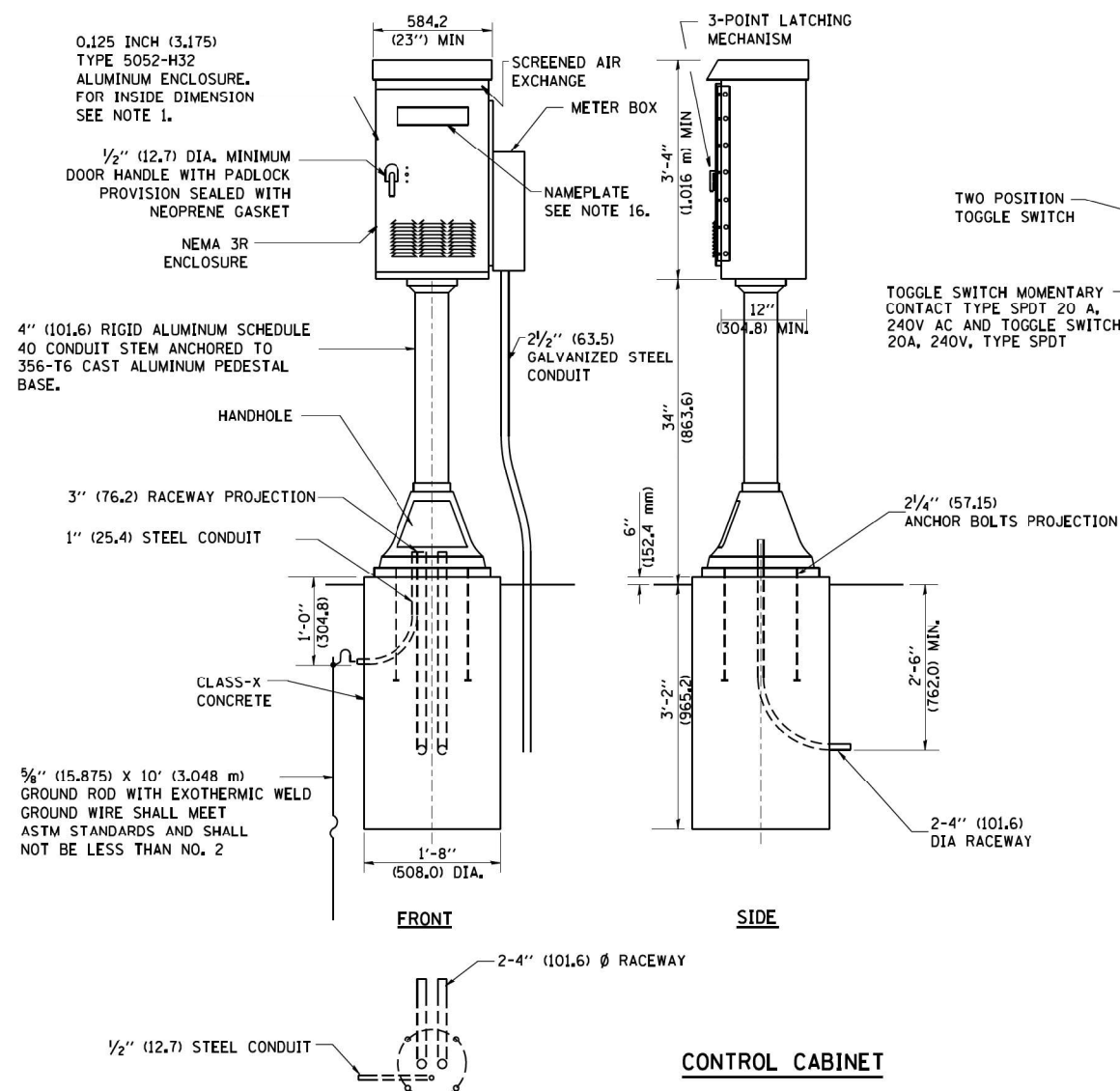
1. FOR GENERAL NOTES AND LEGEND, SEE SHEET LT-01.

LOAD TABLE LIGHTING CONTROLLER "LC"
120/240V AC, 1 PHASE, 100 AMP WITH 12x1P 30A BKRS.

| ON RED WIRE | | | | ON BLACK WIRE | | | |
|-------------|------------|-----------------------|---------------|---------------|------------|-----------------------|---------------|
| CIRCUIT | TOTAL LUM. | TOTAL CURRENT IN AMPS | TOTAL WATTAGE | CIRCUIT | TOTAL LUM. | TOTAL CURRENT IN AMPS | TOTAL WATTAGE |
| A | 4 | 7.7 | 827 | B | 5 | 8.8 | 943 |
| C | 3 | 4.4 | 469 | D | 3 | 5.5 | 590 |
| E | - | SPARE | | F | - | SPARE | |
| G | - | SPARE | | H | - | SPARE | |
| I | - | SPARE | | J | - | SPARE | |
| K | - | SPARE | | L | - | SPARE | |

TOTAL : 26.40A, 2839W

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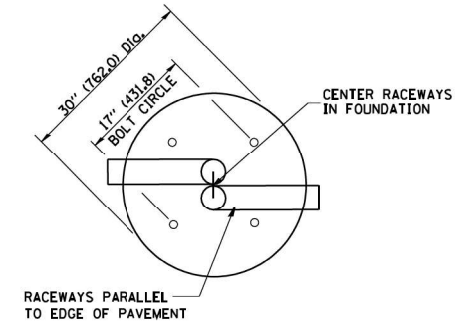
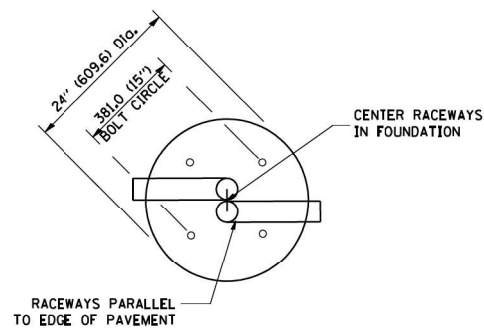
| PANEL EQUIPMENT | | |
|------------------|----------|--|
| BILL OF MATERIAL | | |
| ITEM | QUANTITY | DESCRIPTION |
| A | 1 | MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100 AMP. FRAME, 100 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 240 VOLT. |
| B | 1 | REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUIT 240 VOLT. |
| C | 8 | CIRCUIT BREAKERS, 1 POLE, 277V., 100 AMP., FRAME 50 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-10,000 AMP. AT 240 V. |
| D | 2 | CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100 AMP. FRAME, 15 AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-5000 AMP. AT 240 V. |
| E | 1 | ASTRONOMIC MICROPROCESSOR-BASED 2-CHANNEL CONTROLLER [TIME SWITCH]. |
| H | 1 | SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN. |
| I | 1 | INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP. |
| J | 1 | 20 A., 120 V., DUPLEX RECEPTACLE, GFCI. |
| K | 1 | COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS |
| L | 1 | TOGGLE SWITCHES MOUNTED IN 4" (101.6) X 4" (101.6 mm) BOX. |
| M | 1 | COPPER GROUND BUS 1/4" (6.35) X 1" (25.4) X 12" (304.8 mm) LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS |

NOTES:

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- UNLESS OTHERWISE INDICATED, THE CABINET SHALL BE MOUNTED ATOP A 4-INCH (101.6 mm) RIGID ALUMINUM SCHEDULE 40 CONDUIT STEM ANCHORED TO A CAST ALUMINUM PEDESTAL BASE.
- IN FRONT OF CONTROL CABINET DOOR, REMOVE VEGETATION AND 2" (50.8 mm) TOP SOIL. LEVEL THE AREA AND ON TOP, PLACE LENGTH WISE PARALLEL TO CONTROL CABINET, A CONCRETE PAD 36" (914.4 mm) x 60" (18,288 m) x 4" (101 mm) MIN. SIZE. THE COST OF LABOR AND MATERIALS ARE INCLUDED IN THE COST OF THE CONTROLLER.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 1/4" (6.35 mm) DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL BE PRIMED AND PAINTED AS SPECIFIED.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 12" (304.8) X 16" (406.4 mm) STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.

LIGHT POLE FOUNDATION DEPTH TABLE
40 FT. (12.192 m) TO 47.5 FT. (14.478 m) MOUNTING HEIGHT

| SOIL CONDITIONS | DESIGN DEPTH "D" OF FOUNDATION | |
|---|--------------------------------|--------------------|
| | SINGLE ARM POLE | TWIN ARM POLE |
| SOFT CLAY O _u = 0.375 TON/SO. FT. | 13'-0" (3.96 m) | 15'-0" (4.57 m) |
| MEDIUM CLAY O _u = 0.75 TON/SO.FT | 9'-6" (2.93 m) | 10'-9" (3.23 m) |
| STIFF CLAY O _u = 1.50 TON/SO. FT. | 7'-0" (2.13 m) | 8'-0" (2.44 m) |
| LOOSE SAND φ = 34° | 9'-0" (2.74 m) | 10'-0" (3.05 m) |
| MEDIUM SAND φ = 37.5° | 8'-3" (2.52 m) | 9'-0" (2.74 m) |
| DENSE SAND φ = 40° | 7'-9" (2.36 m) | 9'-0" (2.74 m) |

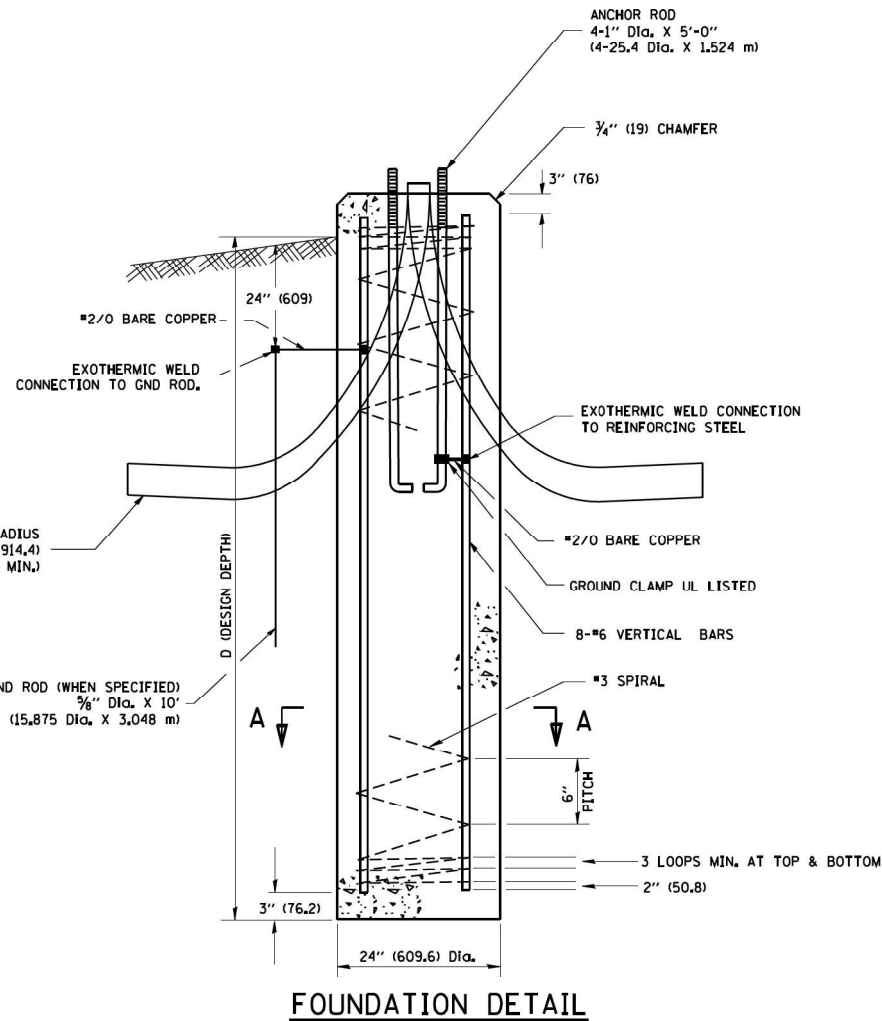


TOP VIEW

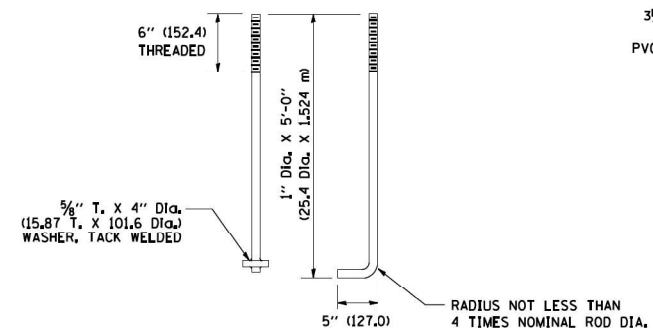
TOP VIEW

NOTES

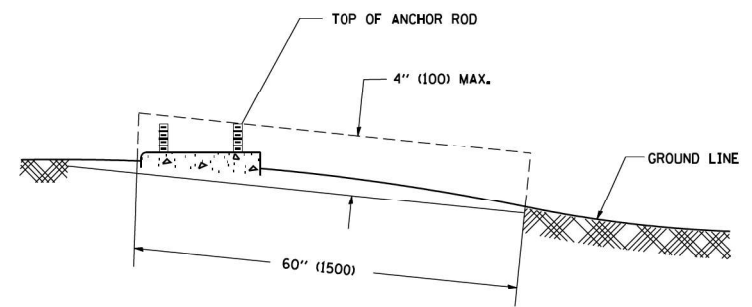
- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- THE ANCHOR RODS AND RACEWAYS SHALL BE PROPERLY SECURED IN PLACE BEFORE THE CONCRETE IS PLACED.
- THE FOUNDATION SHALL NOT PROTRUDE MORE THAN 100MM (4 IN.) ABOVE THE FINISHED GRADE WITHIN A 60 IN. (1.5 m) CHORD ACROSS THE FOUNDATION, WITH ANCHOR RODS INCLUDED. IN ACCORDANCE WITH AASHTO GUIDELINES, IF THE FOUNDATION HEIGHT, INCLUDING ANCHOR RODS, EXTENDS BEYOND THESE SPECIFIED LIMITS, THE FOUNDATION SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE. SEE FOUNDATION EXTENSION DETAIL.
- THE HOLE FOR THE FOUNDATION SHALL BE MADE BY DRILLING WITH AN AUGER, OF THE SAME DIAMETER AS THE FOUNDATION. IF SOIL CONDITIONS REQUIRE THE USE OF A LINER TO FORM THE HOLE, THE LINER SHALL BE WITHDRAWN AS THE CONCRETE IS DEPOSITED.
- THE TOP OF THE FOUNDATION SHALL BE CONSTRUCTED LEVEL. A LINER OR FORM SHALL BE USED TO PRODUCE A UNIFORM SMOOTH SIDE TO THE TOP OF THE FOUNDATION. FOUNDATION TOP SHALL BE CHAMFERED 3/4-IN. (20 mm).
- THE CONCRETE SHALL BE CLASS SI. CONCRETE SHALL CURE ACCORDING TO ARTICLE 1020.13 BEFORE LIGHT POLES ARE INSTALLED.
- THE ANCHOR ROD SHALL BE A HOOK ROD TYPE. COLD BENDING OF THE ANCHOR ROD WILL NOT BE ALLOWED. THE RADIUS OF THE HOOK BEND SHALL NOT BE LESS THAN 4 TIMES THE NOMINAL DIAMETER OF THE ANCHOR ROD. A TACK WELDED ANCHOR ROD MAY BE SUBSTITUTED WITH THE APPROVAL OF THE ENGINEER.
- THE ANCHOR RODS SHALL BE ACCORDING TO ASTM F1554 GRADE 725 (GRADE 105). NUTS SHALL BE HEXAGON NUTS ACCORDING TO ASTM A 194 2H OR ASTM A 563 DH, AND WASHERS SHALL BE ACCORDING TO ASTM F 436.
- ANCHOR RODS, NUTS AND WASHERS SHALL BE COMPLETELY GALVANIZED BY EITHER THE HOT-DIPPED PROCESS CONFORMING WITH AASHTO M 232, THE MECHANICAL PLATING METHOD CONFORMING TO AASHTO M 298, CLASS 50 WITH A MAXIMUM COATING THICKNESS OF 150 UMG MILS) OR THE ELECTROLYTIC PROCESS ACCORDING TO ASTM F 1136.
- THE ANCHOR RODS SHALL BE THREADED A MINIMUM OF 6 INCHES (150 mm) WITH A MINIMUM OF 3 INCHES (75 mm) OF THREADED ANCHOR ROD EMBEDDED IN THE FOUNDATION.
- ANCHOR RODS SHALL PROJECT 2 3/4" (69.9 mm) ABOVE THE TOP OF THE FOUNDATION. IF BREAKAWAY COUPLINGS ARE SPECIFIED, THE CONTRACTOR SHALL CAREFULLY COORDINATE THE ANCHOR ROD PROJECTION WITH THE INSTALLATION REQUIREMENTS OF THE BREAKAWAY COUPLINGS.
- THE CONTRACTOR SHALL USE A #3 SPIRAL AT 6" (152.4 mm) PITCH OR MAY SUBSTITUTE #3 TIES AT 12" (304.8 mm) O.C. WITH THE APPROVAL OF THE ENGINEER.
- THE CABLE TRENCHES AND FOUNDATION SHALL BE BACK FILLED AND COMPACTED AS SPECIFIED BEFORE THE LIGHT POLE IS EFECTED.
- THE RACEWAYS SHALL PROJECT 1" (25.4 mm) ABOVE THE TOP OF THE FOUNDATION.



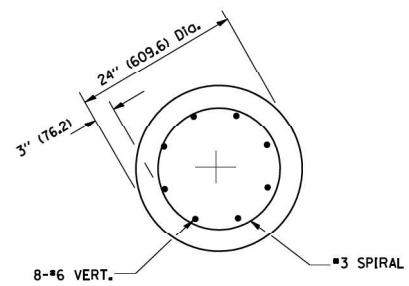
FOUNDATION DETAIL



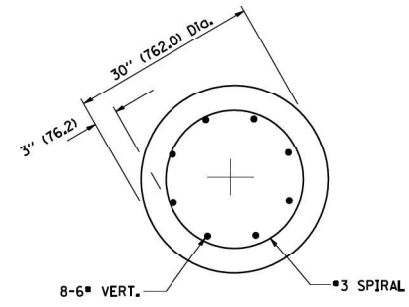
ANCHOR ROD DETAIL



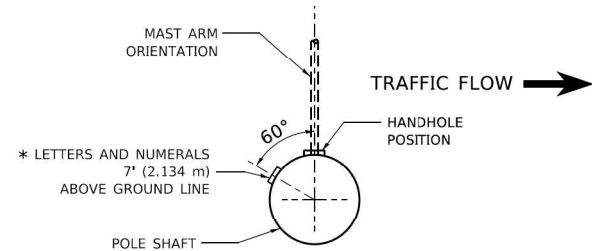
FOUNDATION EXTENSION DETAIL



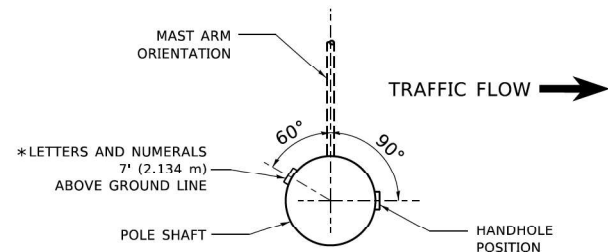
SECTION A-A



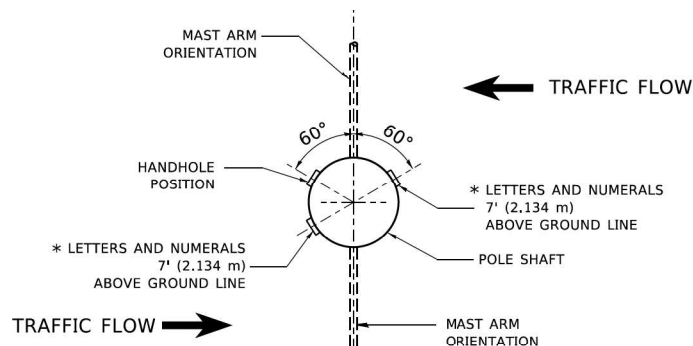
SECTION A-A



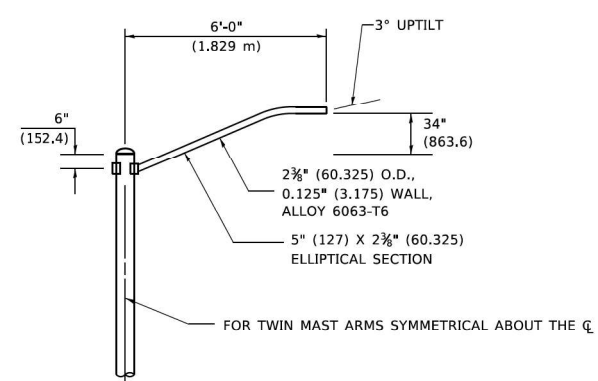
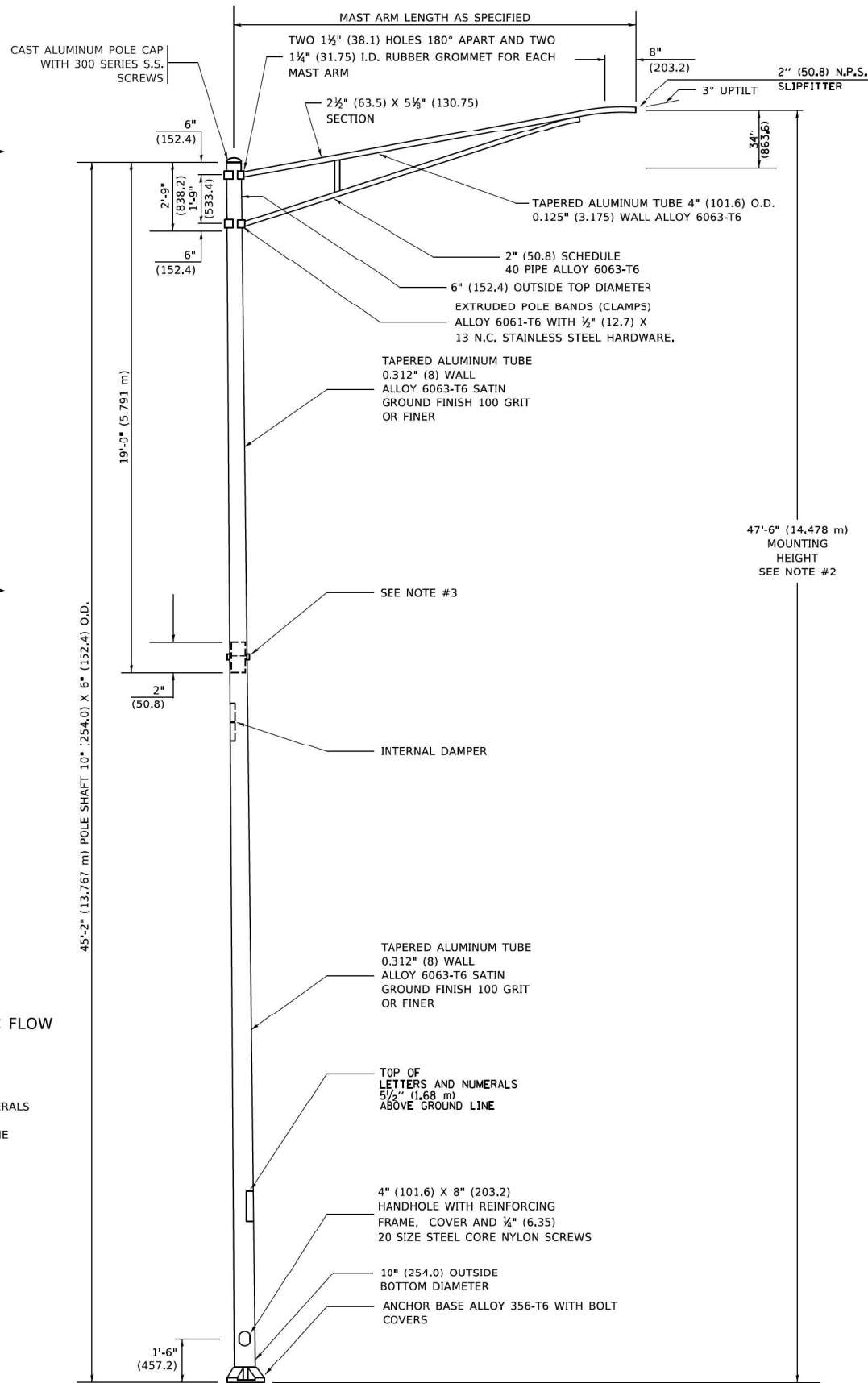
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES MOUNTED ON BRIDGE PARAPET OR BARRIER WALL



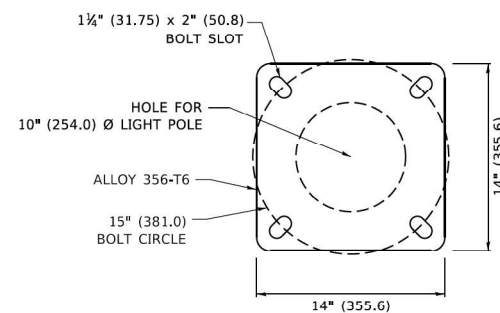
POSITION OF HANDHOLE AND POLE NUMBER FOR SINGLE MAST ARM POLES



POSITION OF HANDHOLE AND POLE NUMBER FOR TWIN MAST ARM POLES

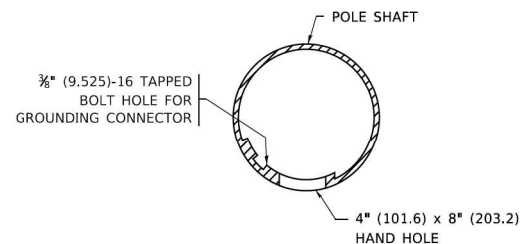


6' (1.8 m) SINGLE MEMBER MAST ARM (N.T.S.)



LIGHT POLE BASE PLATE DETAIL

15 INCH (381.0) BOLT CIRCLE



HANDHOLE DETAIL (N.T.S.)

NOTES

- ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.
- MOUNTING HEIGHT IS DEFINED AS THE DISTANCE FROM THE CENTERLINE OF THE TENON TO THE BOTTOM OF THE ANCHOR BASE.
- TWO PIECE SHAFT WILL BE MATCHED MARKED AND INTERCHANGEABLE BETWEEN DIFFERENT UNITS. FIELD DRILLING OF THE HOLES WILL NOT BE ALLOWED.
- THE LIGHT POLE WILL MEET AASHTO DESIGN CRITERIA AS SPECIFIED.
- THE INSTALLING CONTRACTOR WILL PROVIDE A UL LISTED GROUNDING CONNECTOR. BURNDY K2C23, T&B SP4DL OR APPROVED EQUAL.
- LIGHT POLES WILL NOT BE INSTALLED WITHOUT MAST ARMS AND LUMINAIRES.
- LIGHT POLES WILL BE SET PLUMB ON THE FOUNDATION WITHOUT THE USE OF LEVELING NUTS, WASHERS OR SHIMS.
- LIGHTING UNIT IDENTIFICATION NUMBERS SHALL BE INSTALLED BEFORE THE LIGHTING UNIT IS ENERGIZED.

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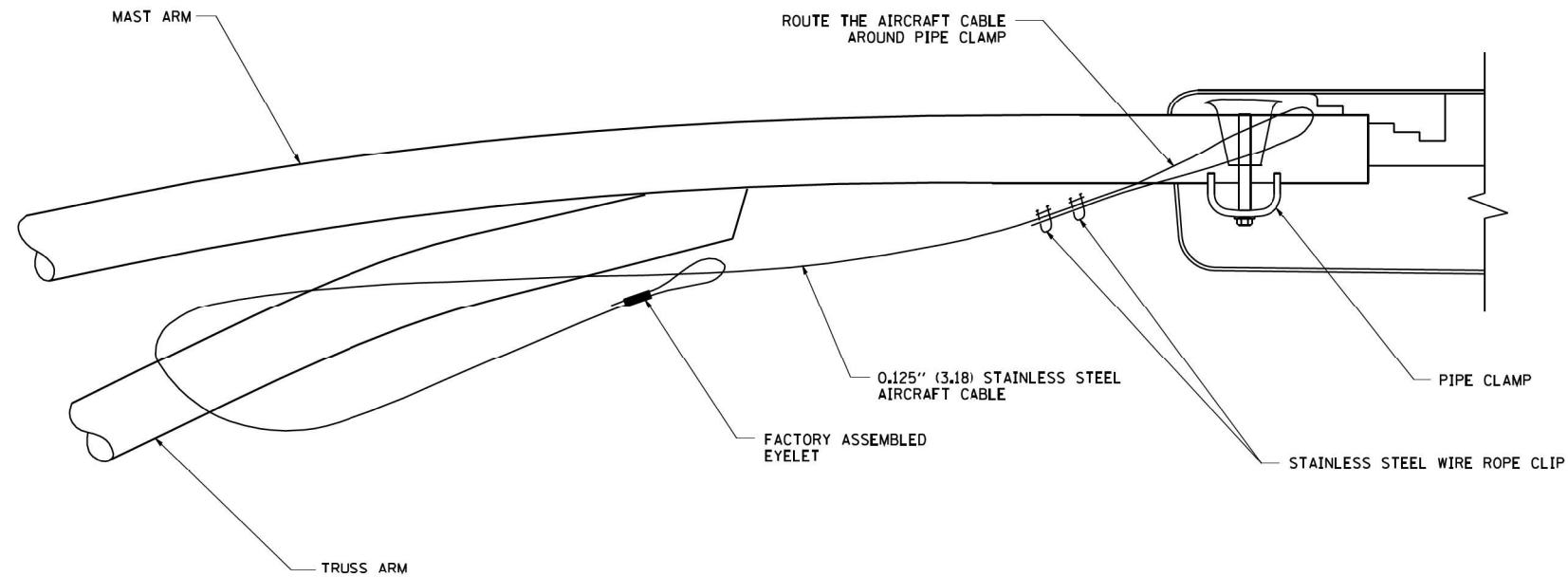
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|-------------------------------|------------|-------------------------------|
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| | DRAWN - | REVISED - R. TOMSONS 09-03-03 |
| PLOT SCALE = 50.00000 ' / in. | CHECKED - | REVISED - R. TOMSONS 01-18-13 |
| PLOT DATE = 4/19/2019 | DATE - | REVISED - R. TOMSONS 03-18-15 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

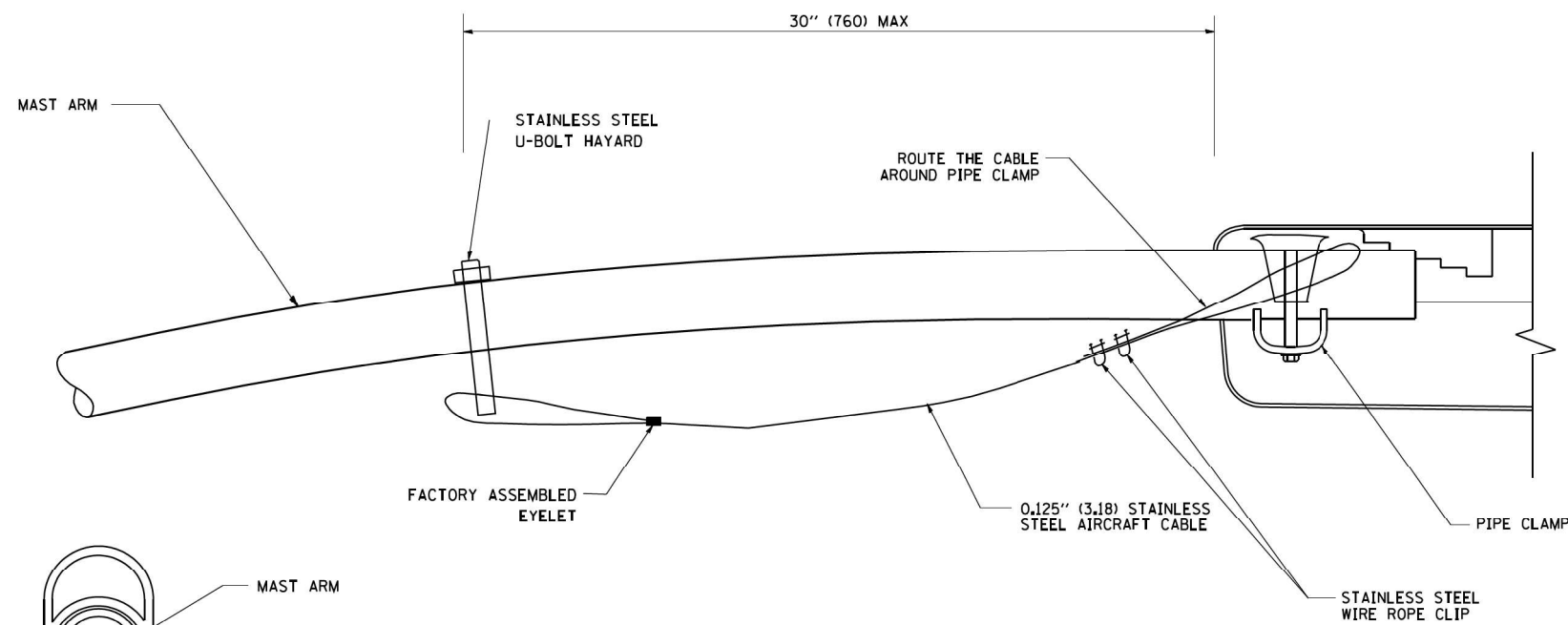
**ALUMINUM LIGHT POLE
47'-6" (14.478 m) MOUNTING HEIGHT**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

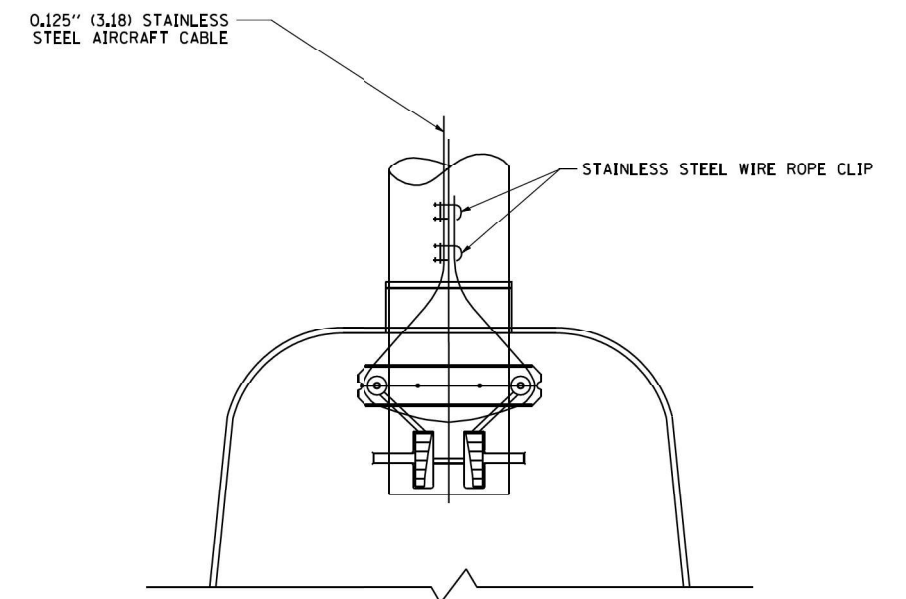
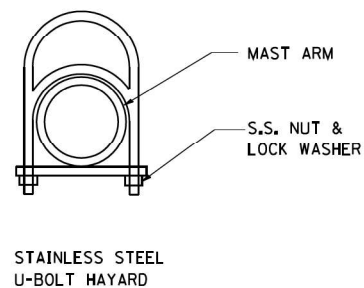
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | 87 | 56 |
| BE-400 | | | CONTRACT NO. | |
| ILLINOIS FED. AID PROJECT | | | | |



SIDE VIEW (TRUSS ARM)
N.T.S.



SIDE VIEW (SINGLE MEMBER OR DAVIT ARM)
N.T.S.



BOTTOM VIEW
N.T.S.

NOTES:

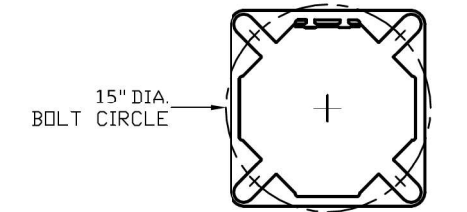
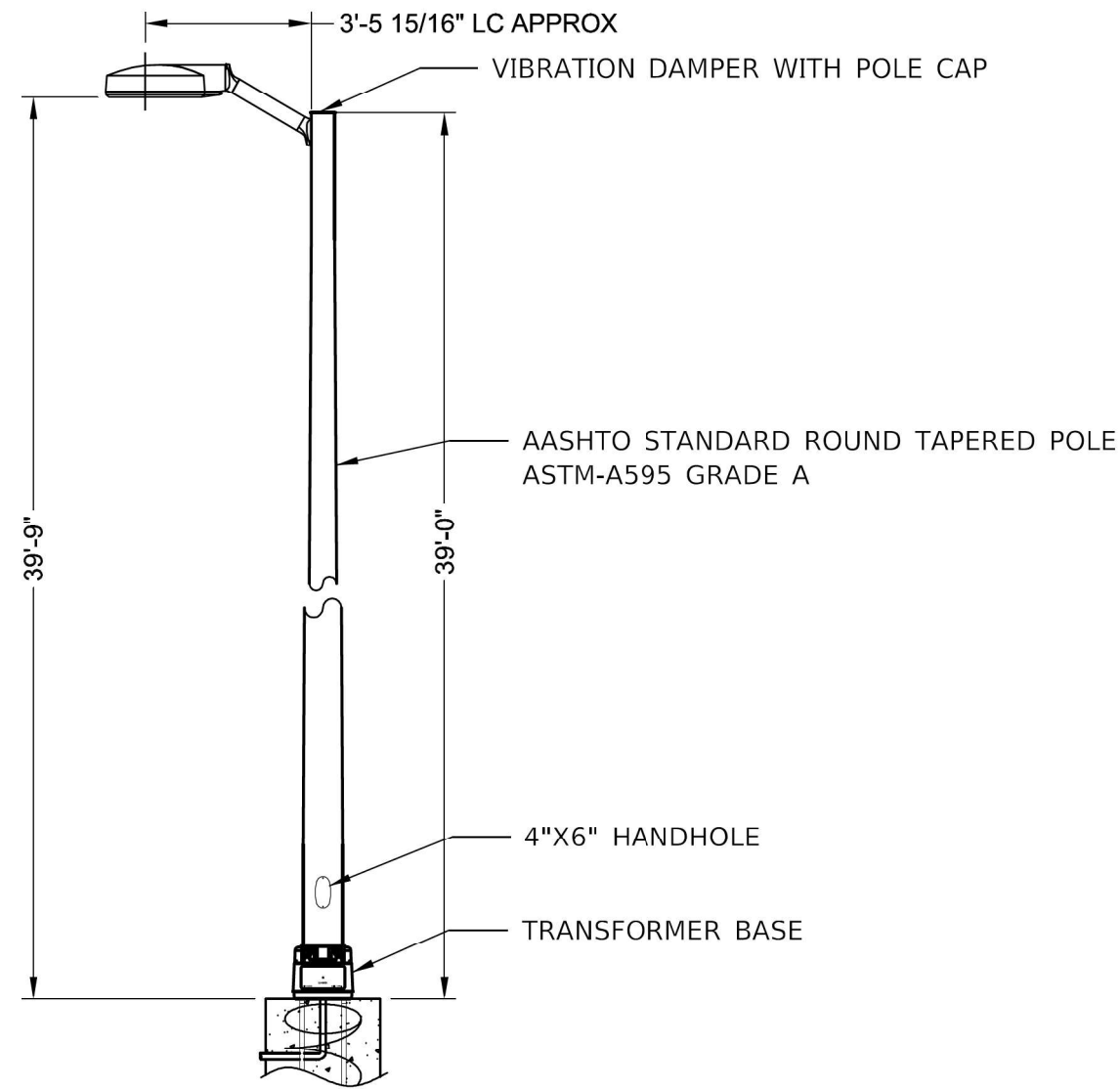
1. ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE SHOWN.
2. CONTRACTOR SHALL ADJUST THE WIRE CLIP TO ELIMINATE ANY SLACK FROM THE WIRE ROPE.
3. THE 0.125" (3.18) STAINLESS STEEL AIRCRAFT CABLE SHALL REMAIN VISIBLE FROM THE GROUND LEVEL.
4. THE BREAKING STRENGTH OF THE CABLE SHALL BE 1700 LBS. MIN.

LT-09

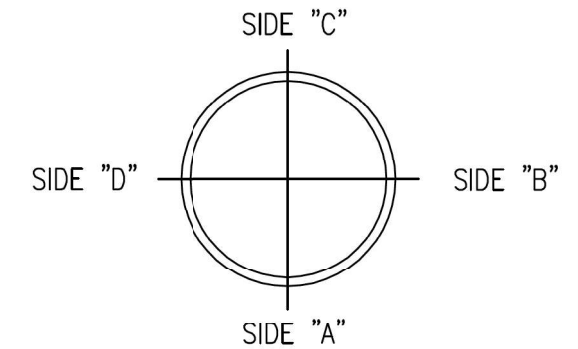
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| | PLOT SCALE = 50.000 ' / IN. PLOT DATE = 1/4/2008 | CHECKED - DATE - | | | SCALE: NONE | SHEET NO. 1 OF 1 SHEETS | STA. | TO STA. | BE-701 | | CONTRACT NO. | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT |

LUMINAIRE GE EVOLVE_EALS03
EVOLVE\4000K\EALS03_F2AN740_.IES

| | |
|-----|----------|
| REV | REVISION |
|-----|----------|



DETAIL "B"
9" "T" BASE
ANCHOR BOLT CIRCLE
SCALE 1"=1'-0"



DETAIL "A"
SCALE 3"=1'-0"

SINGLE UPSWEEP STREET LIGHT

NOTES:

1. POLES MEET AASHTO "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES AND TRAFFIC SIGNALS"
2. SEE DETAIL "A" FOR LSI STANDARD POLE SIDE ORIENTATIONS

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| | | |
|--|---|-----------------|
| <p>LSI INDUSTRIES</p> <p>* LIGHTING SYSTEMS * INSIGHT GRAPHICS * ABOLITE LIGHTING</p> | MATERIAL | TITLE |
| | FINISH | BY |
| | UNLESS OTHERWISE SPECIFIED TOLERANCES ARE: ± 1/32 FRACTIONS ±.016 DECIMALS ± 1° ANGLES ±.005 HOLE DIAMETERS | DATE |
| | DWG B SIZE | SCALE |
| | 1 = 50 | DWG. NO. XXXXXX |
| | | SHEET 1 OF 1 |

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AMES Engineering, Inc.
CONSULTING ENGINEERS
6330 Belmont Road, Suite 4B
Downers Grove, IL 60515

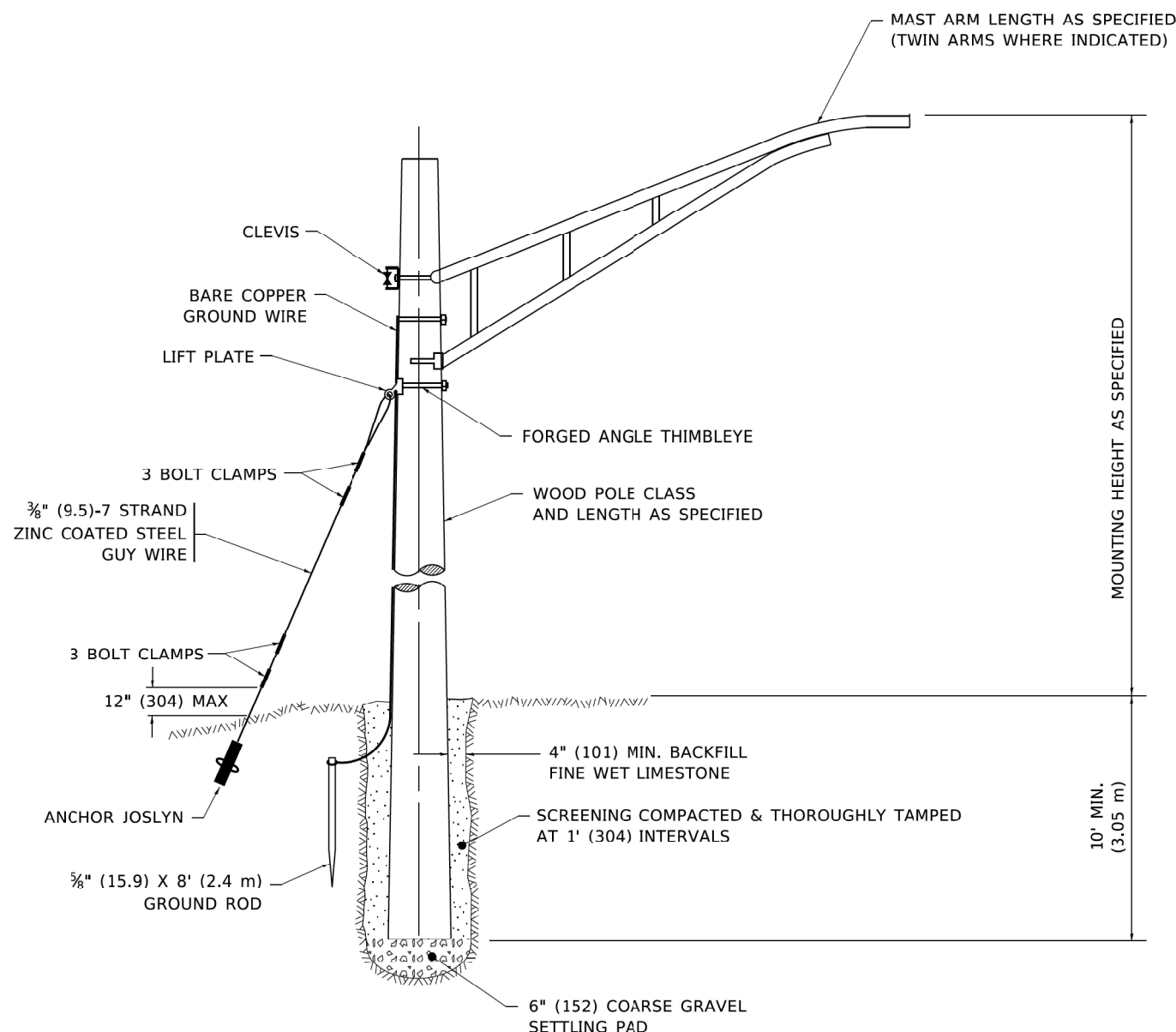
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| PLOT DATE = 8/10/2021 | CHECKED - MB | REVISED - |
| | DATE - 08-02-21 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 50 (CICERO AVENUE) AT STEGER RD.
UNIVERSITY PARK LIGHTING DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

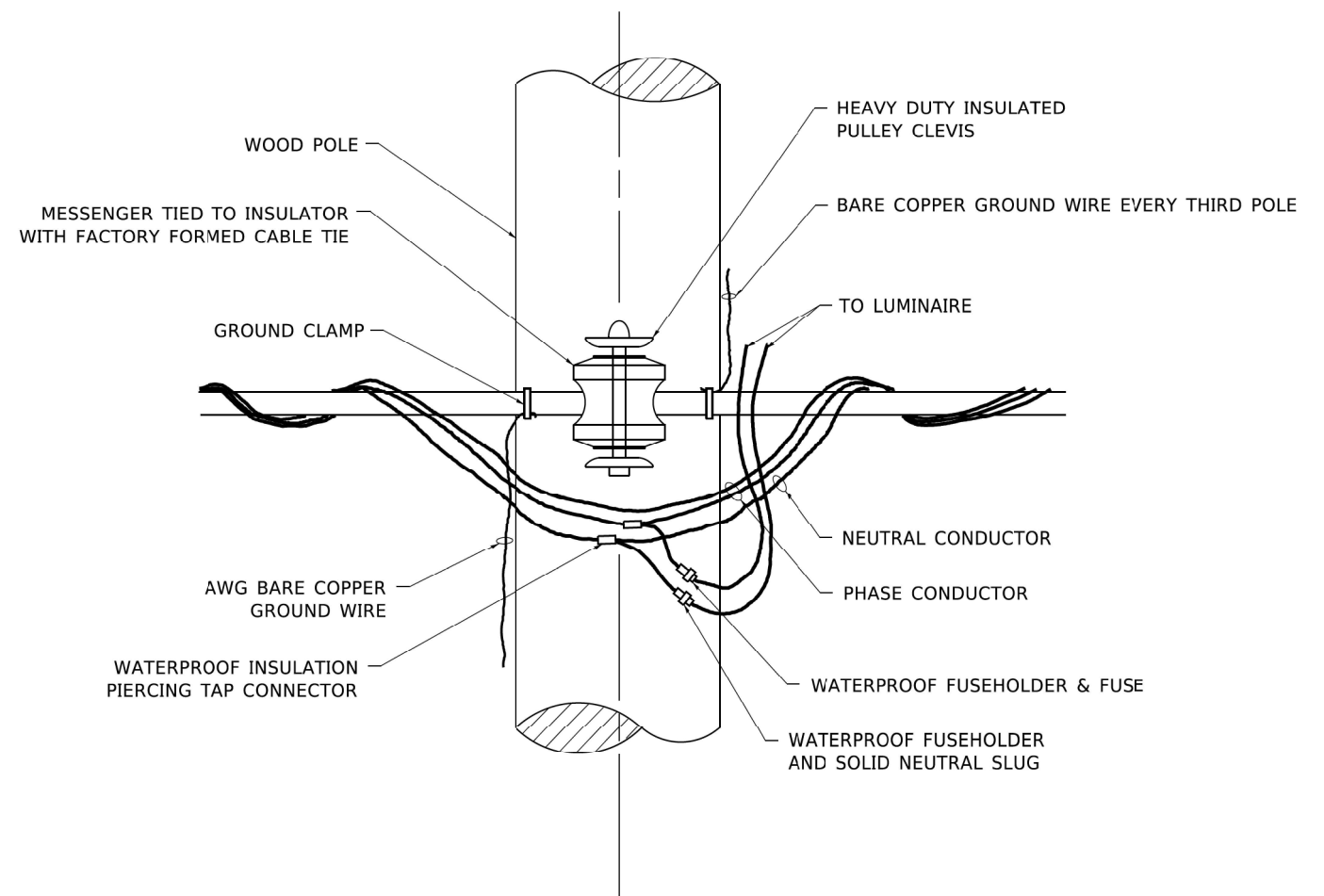
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK | 87 | 59 |
| CONTRACT NO. 62F87 | | | ILLINOIS FED. AID PROJECT | |



TEMPORARY LIGHT POLE DETAIL

NOTE:

- 1. ALL DIMENSIONS IN INCHES (MILLIMETERS) UNLESS OTHERWISE INDICATED.
- 2. MAST ARM SHALL BE RATED FOR THE SPECIFIED MOUNTING HEIGHT.



TEMPORARY LIGHT POLE ATTACHMENT DETAIL

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 DATE: 9/15/2021

AMES Engineering, Inc.
 CONSULTING ENGINEERS
 6330 Belmont Road, Suite 4B
 Downers Grove, IL 60616

| | | |
|----------------------------|-----------------|-----------|
| USER NAME = Srahman | DESIGNED - BL | REVISED - |
| PLOT SCALE = 0.0647' / in. | DRAWN - MD | REVISED - |
| PLOT DATE = 9/15/2021 | CHECKED - MB | REVISED - |
| | DATE - 10-01-21 | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

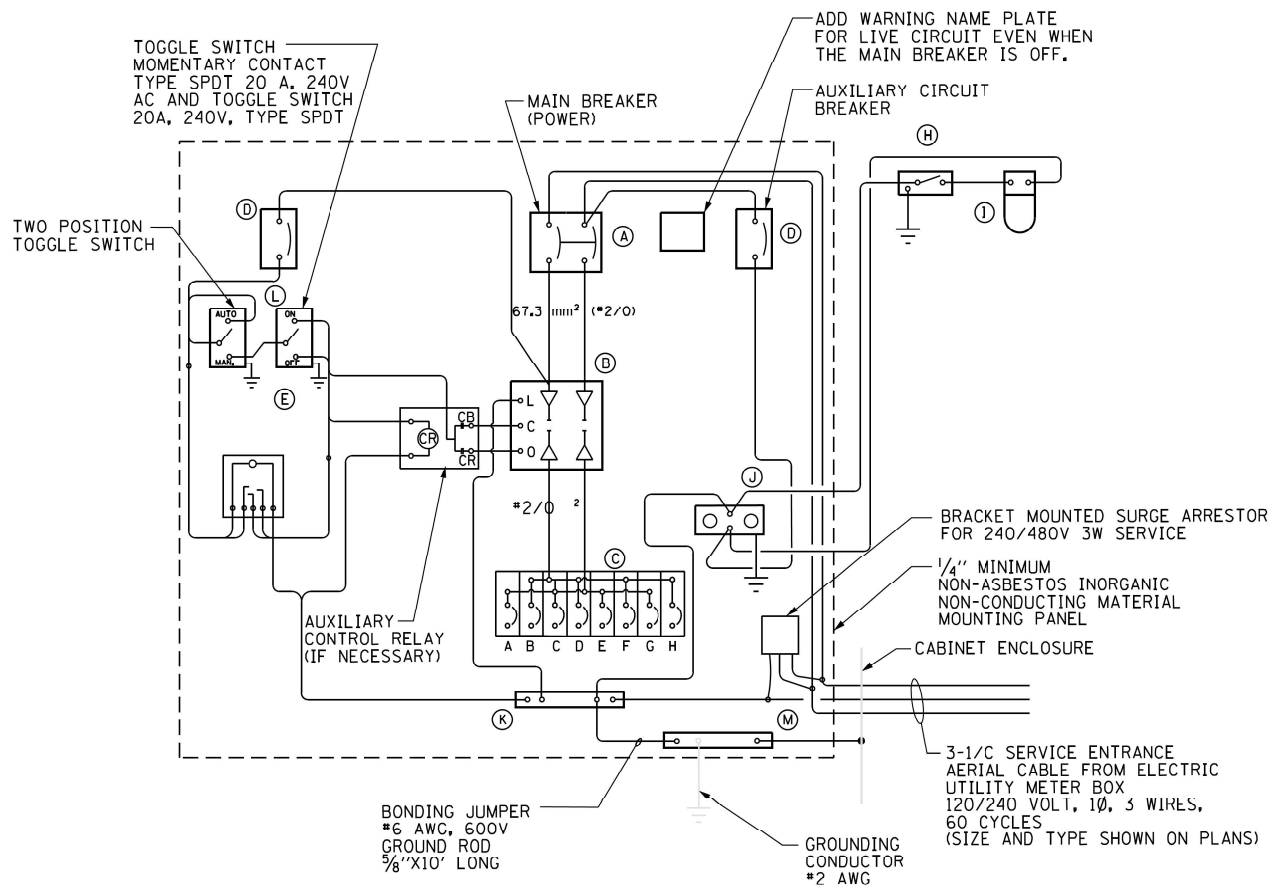
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| IL ROUTE 50 (CICERO AVENUE) AT STEGER RD. TEMPORARY LIGHT POLE DETAILS | | | |
| SCALE: | SHEET | OF SHEETS | STA. TO STA. |

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|------------|--------------------|--------------|-----------|
| 350 | 101W-N(17) | COOK | 87 | 59A |
| BE-800 | | CONTRACT NO. 62F87 | | |
| ILLINOIS FED. AID PROJECT | | | | |

PANEL EQUIPMENT

BILL OF MATERIAL

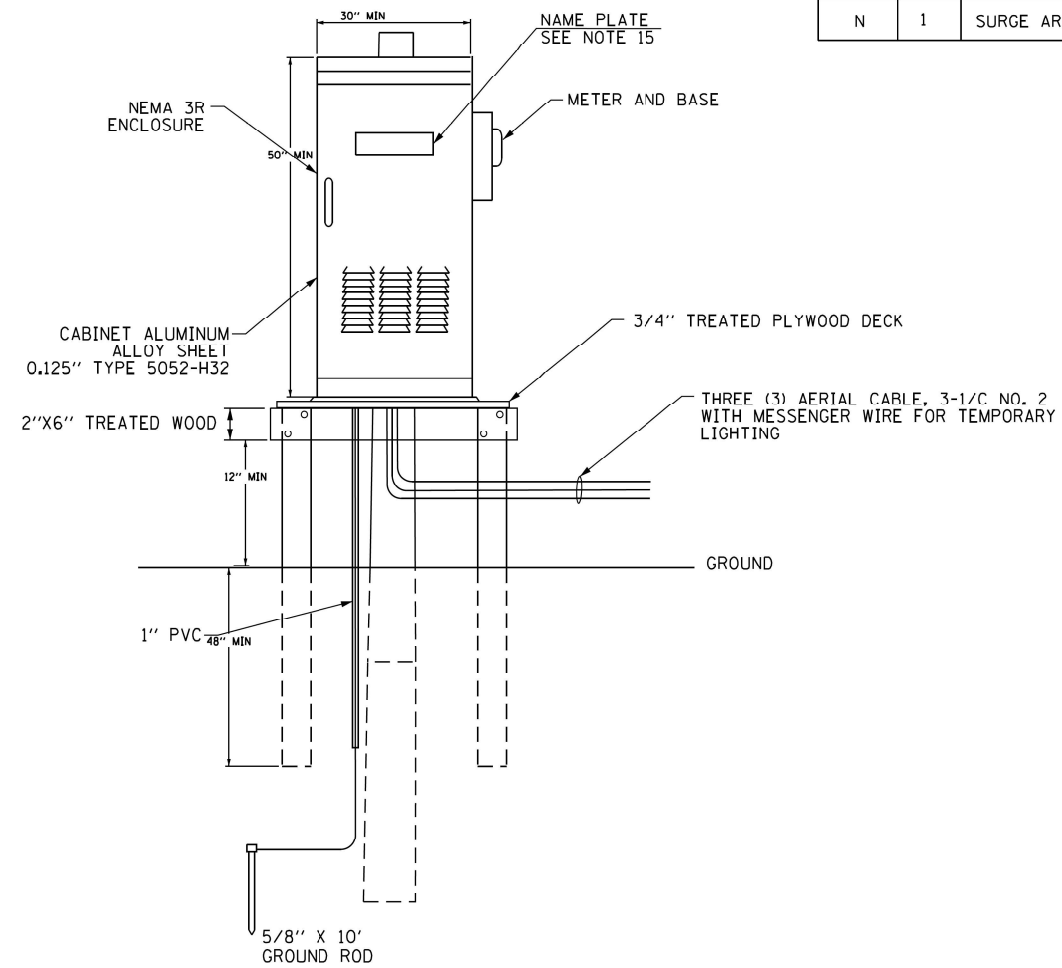
| ITEM | QTY. | DESCRIPTION |
|------|------|---|
| A | 1 | MAIN CIRCUIT BREAKER, 2 POLE, 600 VOLT 100AMP. FRAME, 100AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22000 AMP. AT 240 VOLT. |
| B | 1 | REMOTE CONTROL SWITCH, ELECTRICALLY OPERATED, MECHANICALLY HELD, 2 POLE, SINGLE THROW, 100 AMP., 600 VOLTS CONTROL CIRCUITS 240 VOLT, ASCO 920. |
| C | 8 | CIRCUIT BREAKERS, 1 POLE, 240V., 100AMP. FRAME 50AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22,000 AMP. AT 240 V. |
| D | 2 | CONTROL CIRCUIT-CIRCUIT BREAKER, 1 POLE, 240 V., 100AMP. FRAME, 15AMP. NON-INTERCHANGEABLE TRIP INTERRUPTING RATING NEMA-22,000 AMP. AT 240 V. |
| E | 1 | A STRONOMIC MICRO PROCESSOR BASED 2 CHANNEL CONTROLLER [TIME SWITCH] |
| H | 1 | SPST 20A SWITCH ON DOOR, TO TURN LIGHT ON WHEN DOOR IS OPEN. |
| I | 1 | INCANDESCENT LIGHTING FIXTURE ENCLOSED AND GASKETED WITH 60 WATT, 120 V. LAMP. |
| J | 1 | 20 A., 120 V., DUPLEX RECEPTACLE, GFCI. |
| K | 1 | COPPER NEUTRAL BUS 6,35 mm (1/4") X 25,4 mm (1") X 304,8 mm (12") LONG MOUNTED ON PANEL WITH LUGS AND 4 SPARE LUGS. |
| L | 1 | TOGGLE SWITCHES MOUNTED IN 101.6 mm (4") X 101.6 mm (4") BOX. |
| M | 1 | COPPER GROUND BUS 6,35 mm (1/4") X 25,4 (1") 304,8 mm (12") LONG MOUNTED ON PANEL WITH LUGS AND SPARE LUGS. |
| N | 1 | SURGE ARRESTOR |



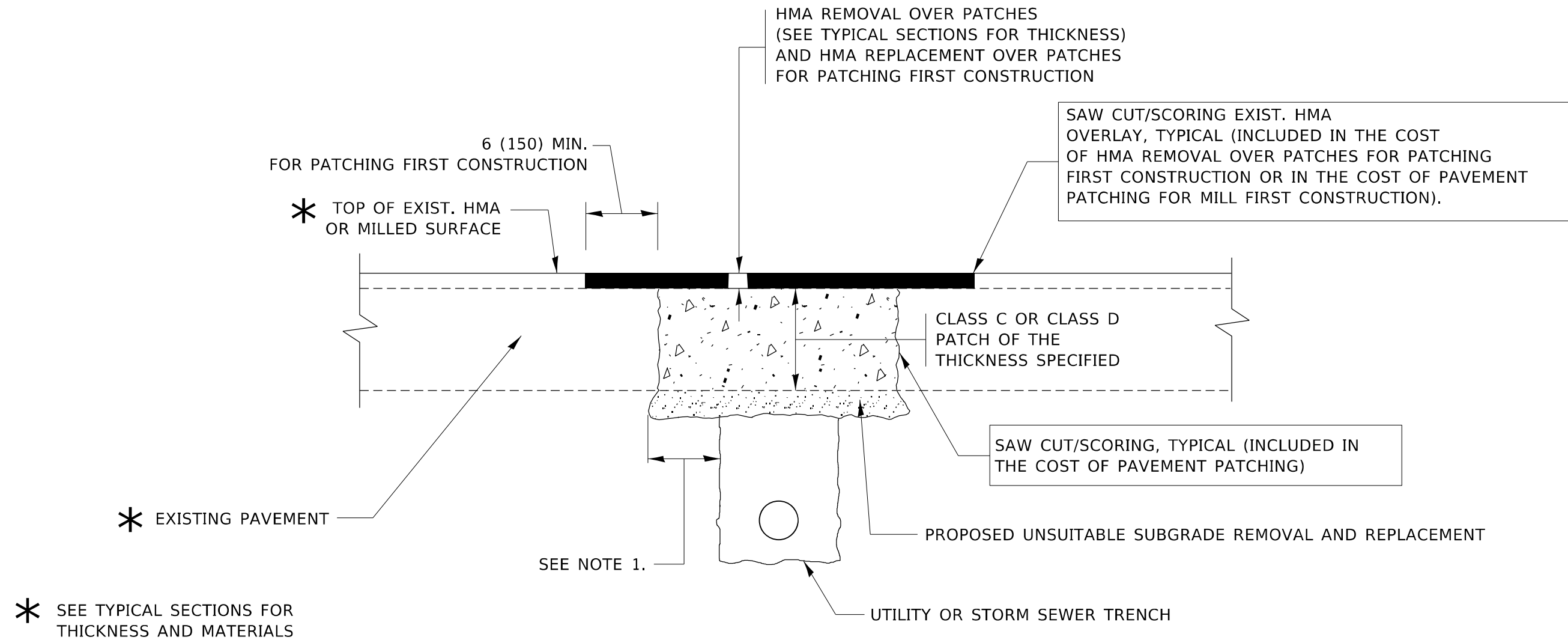
WIRING DIAGRAM

NOTES:

- ALL DIMENSIONS ARE IN MILLIMETERS (INCHES) UNLESS OTHERWISE NOTED.
- WOOD PLANK SUPPORT SIZE SHALL BE COORDINATED WITH CABINET SIZE.
- DOOR SHALL BE CONSTRUCTED FROM SAME TYPE OF MATERIAL AND THICKNESS AS CABINET.
- DOOR SHALL BE EQUIPPED WITH THREE POINT LATCHING MECHANISM WITH NYLON ROLLERS AT TOP THE BOTTOM.
- DOOR HINGE SHALL BE A HEAVY GAUGE CONTINUOUS HINGE WITH A 6.35 mm (1/4") DIA. STAINLESS STEEL HINGE PIN.
- ALL EXTERNAL HARDWARE SHALL BE STAINLESS STEEL.
- CONTROL WIRING TO BE #12 AWG, 600V, TYPE "SIS" GRAY SWITCH BOARD WIRE, STRANDED COPPER.
- METER BOX SHALL BE MOUNTED ON THE SIDE OF CONTROL CABINET, NEAR TO THE SERVICE POLE.
- CABINETS SHALL HAVE AN ALUMINUM FINISH.
- THE HEADS OF CONNECTORS SCREWS SHALL BE PAINTED WHITE FOR NEUTRAL BAR CONNECTION AND GREEN FOR GROUND BAR CONNECTORS.
- ALL WIRING WITHIN THE CABINET SHALL BE COLOR CODED AS INDICATED.
R = RED BL = BLUE W = WHITE
B = BLACK Y = YELLOW G = GREEN
- PROVIDE SEALING GROMMETS FOR ALL OPEN WIRING EXTENDED FROM DEVICES IN BOXES OR CABINETS WITHIN THE CONTROL CABINET.
- ALL WIRING SHALL BE NEATLY DRESSED AND SUPPORTED.
- THE CONTROLLER SHALL BE CONSTRUCTED TO U.L. STD. 508 AND BEAR THE U.L. LABEL "ENCLOSED INDUSTRIAL CONTROL PANEL".
- 304,8 mm (12") X 406,4 mm (16") STAINLESS STEEL EXTERIOR NAMEPLATE SHALL BE ENGRAVED TO "LIGHTING CONTROLS" UNLESS OTHERWISE SPECIFIED.
- SERVICE DISCONNECT SHOULD HAVE UL LABEL AND THE EQUIPMENT SHOULD BE SUITABLE FOR SERVICE ENTRANCE EQUIPMENT.
- BASED ON LIGHTING CONTROLLER CABINET, ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS.
- DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
- FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.



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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 4½ 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.

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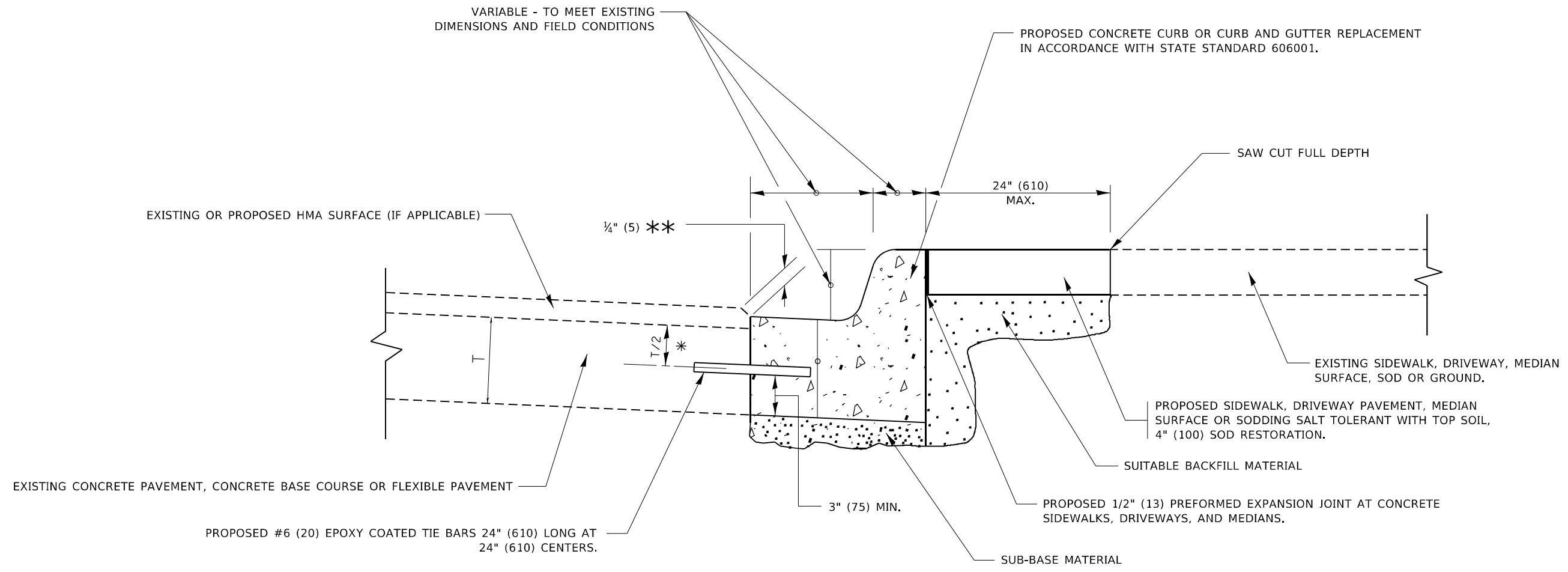
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| USER NAME = rostkowsdr | DESIGNED - R. SHAH | REVISED - A. ABBAS 04-27-98 |
| PLOT SCALE = 100,0000' / in. | CHECKED - | REVISED - R. BORO 01-01-07 |
| PLOT DATE = 8/16/2021 | DATE - 10-25-94 | REVISED - R. BORO 09-04-07 |
| | | REVISED - K. ENG 10-27-08 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|--------------|--------------|-----------|
| | | | 87 | 60 |
| BD400-04 (BD-22) | | CONTRACT NO. | | |
| ILLINOIS FED. AID PROJECT | | | | |



- * 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.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

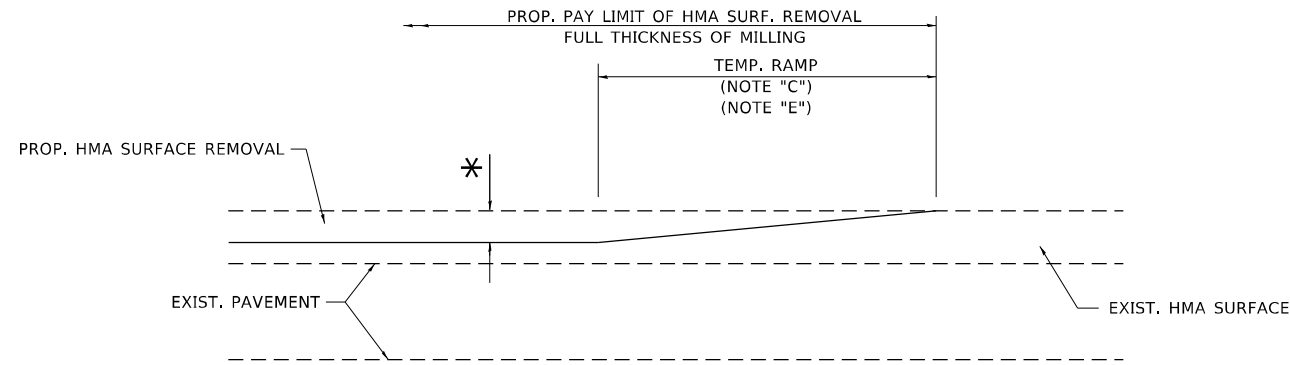
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|-------------------------------|----------------------|-----------------------------|
| USER NAME = rostkowsdir | DESIGNED - A. HOUSEH | REVISED - A. ABBAS 03-21-97 |
| | DRAWN - | REVISED - M. GOMEZ 01-22-01 |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - | REVISED - R. BORO 12-15-09 |
| PLOT DATE = 8/16/2021 | DATE - 03-11-94 | REVISED - K. SMITH 07-11-19 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

| | | | |
|--|---------|-------------|--------------|
| CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT | | | |
| SCALE: NONE | SHEET 1 | OF 1 SHEETS | STA. TO STA. |

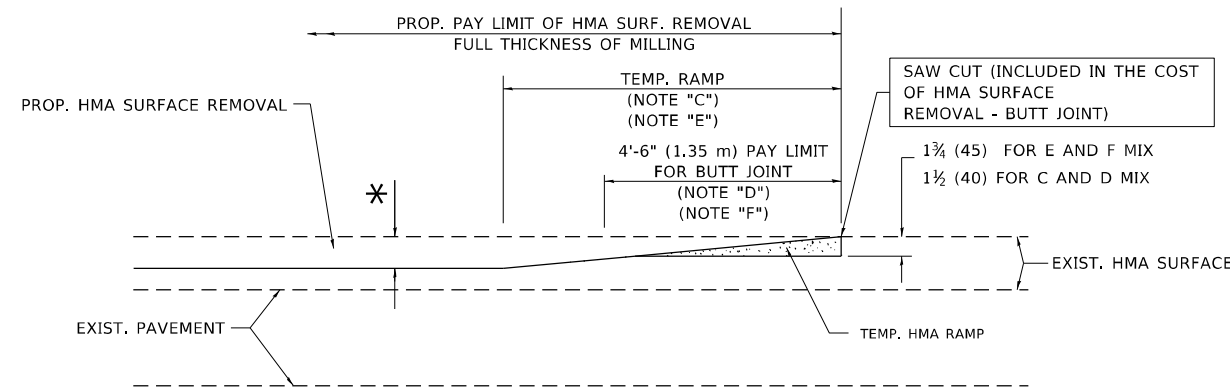
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | 87 | 61 |
| BD600-06 (BD-24) | | CONTRACT NO. | | |
| ILLINOIS FED. AID PROJECT | | | | |



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

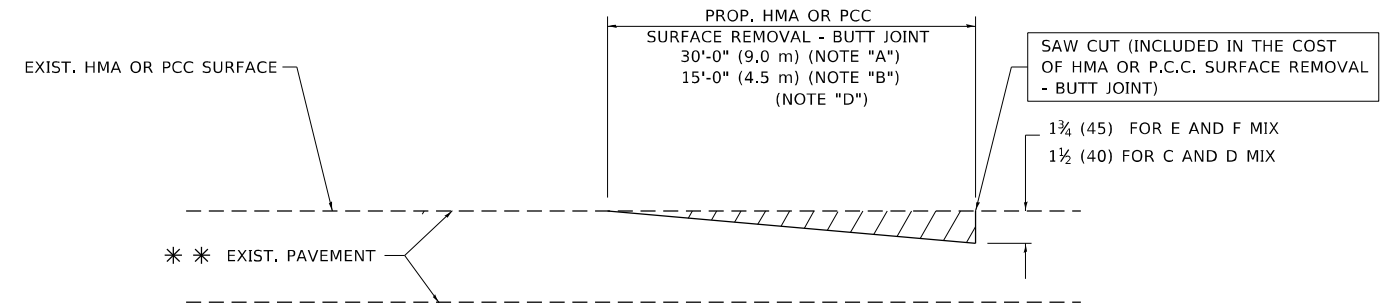


HMA CONSTRUCTED TEMPORARY RAMP

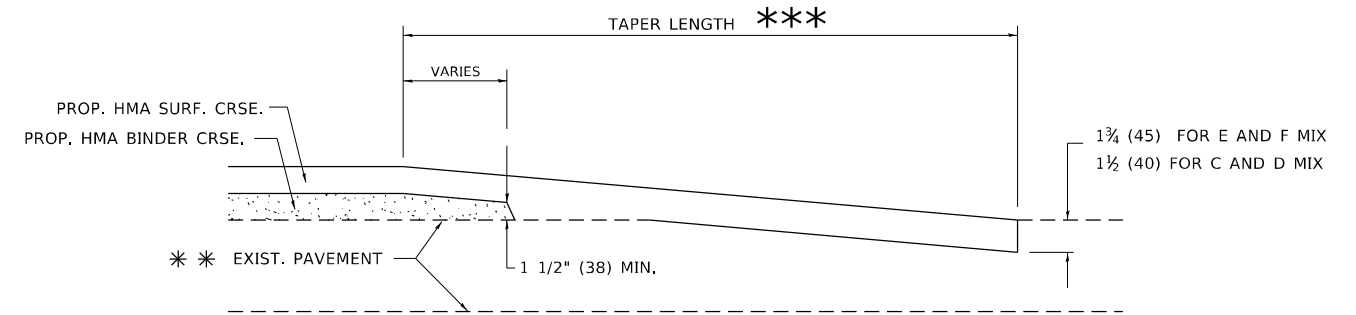
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

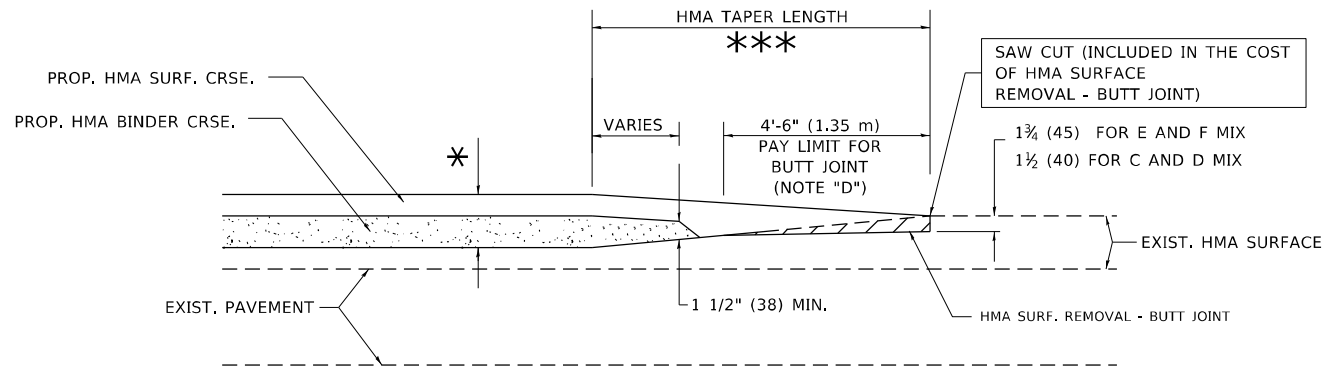
NOTES

- 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.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 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.



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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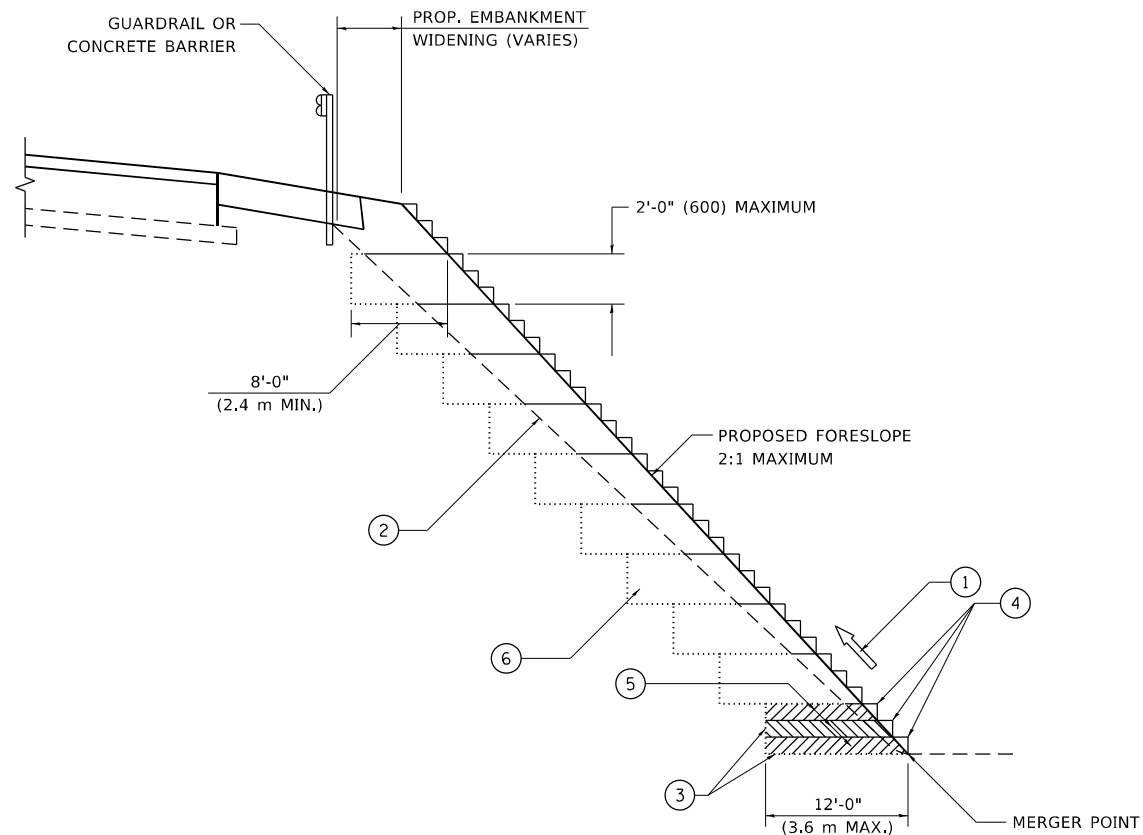
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| USER NAME = rostkowskdr | DESIGNED - M. DE YONG | REVISED - R. SHAH 10-25-94 |
| PLOT SCALE = 100,0000' / in. | DRAWN - | REVISED - A. ABBAS 03-21-97 |
| PLOT DATE = 8/16/2021 | CHECKED - | REVISED - M. GOMEZ 04-06-01 |
| | DATE - 06-13-90 | REVISED - R.BORO 01-01-07 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------|--------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | 87 | 62 |
| BD400-05 BD32 | | CONTRACT NO. | | |
| ILLINOIS FED. AID PROJECT | | | | |



**TYPICAL BENCHING DETAIL
FOR EMBANKMENT**

NOTES:

- ① CONSTRUCT SUCCEEDING BENCH CUTS AND EMBANKMENT PLACEMENT AND COMPACTION FROM BOTTOM TO TOP IN STAIRSTEP FASHION.
- ② EXISTING FORESLOPE PREPARED IN ACCORDANCE WITH ARTICLE 205.03 OF THE STANDARD SPECIFICATIONS.
- ③ BENCH CUT EXISTING SLOPE TYPICAL FOR EACH STEP.
- ④ TRIM TO FINAL SLOPE.
- ⑤ EQUAL 8-INCH (200) LIFTS OF EMBANKMENT COMPACTED IN ACCORDANCE WITH ARTICLE 205.05 OF THE STANDARD SPECIFICATIONS.
- ⑥ EXCAVATION OF BENCH CUTS WITHIN EXISTING EMBANKMENT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER CUBIC METER OR CUBIC YARD FOR "EARTH EXCAVATION". THIS PRICE WILL INCLUDE ALL LABOR AND MATERIAL, NO ADDITIONAL COMPENSATION WILL BE ALLOWED.
- ⑦ SLOPES SHALL BE BENCHED ACCORDING TO THIS DETAIL WHEN THE SLOPE IS STEEPER THAN 4:1 AND THE HEIGHT IS GREATER THAN 5' (1.5 m).

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

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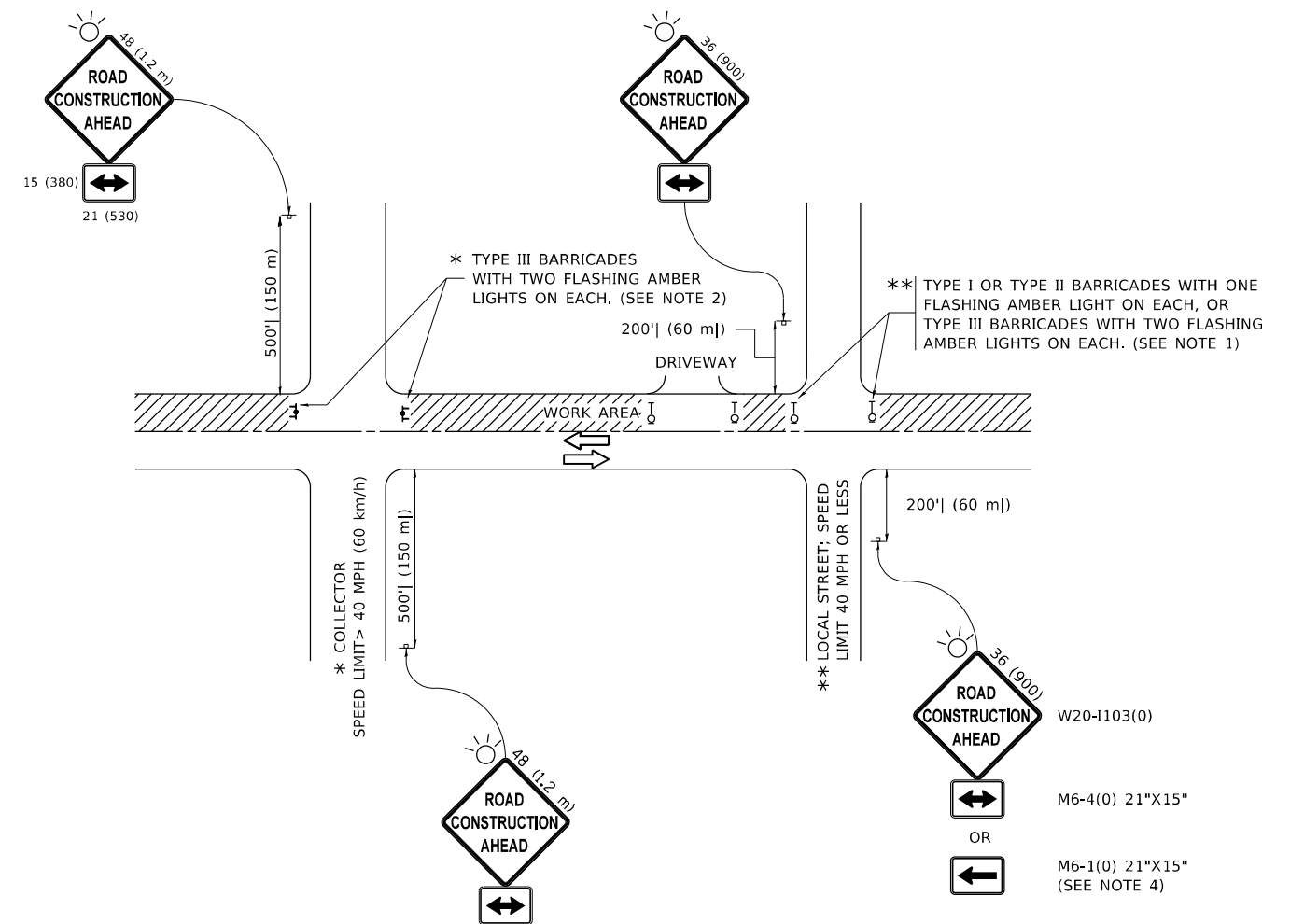
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| USER NAME = rostkowsdir | DESIGNED - | REVISED - |
| | DRAWN - CADD | REVISED - |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - S.E.B. | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 06-16-04 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BENCHING DETAIL
FOR EMBANKMENT WIDENING**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | 87 | 63 |
| BD-51 | | | CONTRACT NO. | |
| ILLINOIS FED. AID PROJECT | | | | |



NOTES:

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 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. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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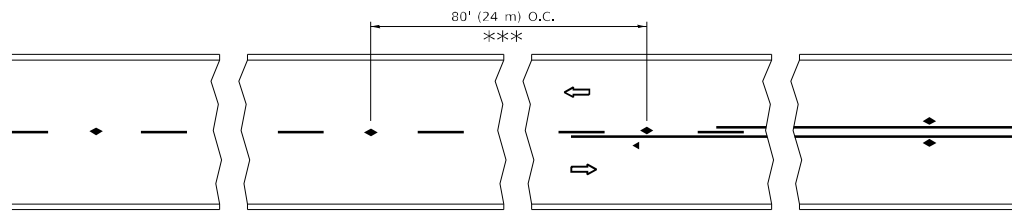
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| PLOT SCALE = 100,0000 ' / in. | CHECKED - | REVISED - T. RAMMACHER 01-06-00 |
| PLOT DATE = 8/16/2021 | DATE - 06-89 | REVISED - A. SCHUETZE 07-01-13 |
| | | REVISED - A. SCHUETZE 09-15-16 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

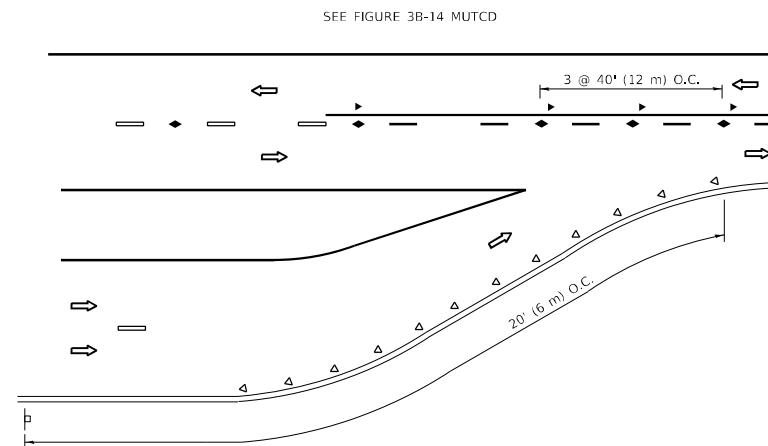
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|--------|--------------|-----------|
| | | | 87 | 64 |
| TC-10 | | | CONTRACT NO. | |
| ILLINOIS FED. AID PROJECT | | | | |

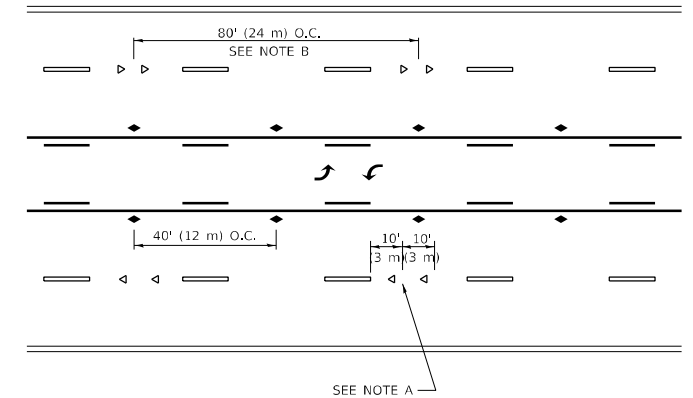


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

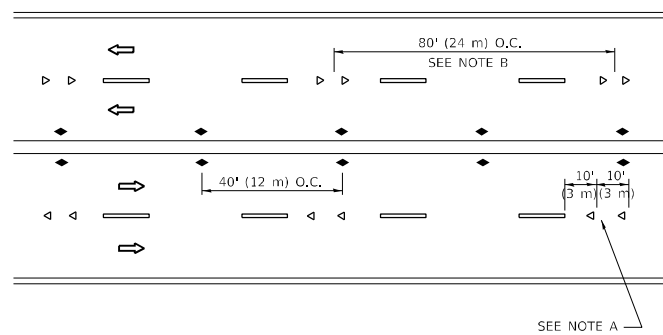
TWO-LANE/TWO-WAY



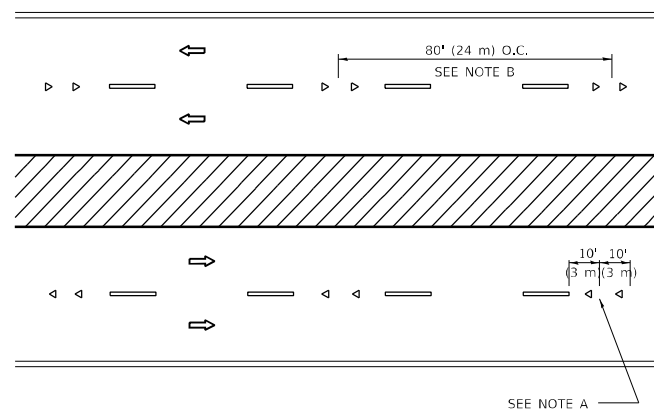
LANE REDUCTION TRANSITION



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.
4. MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

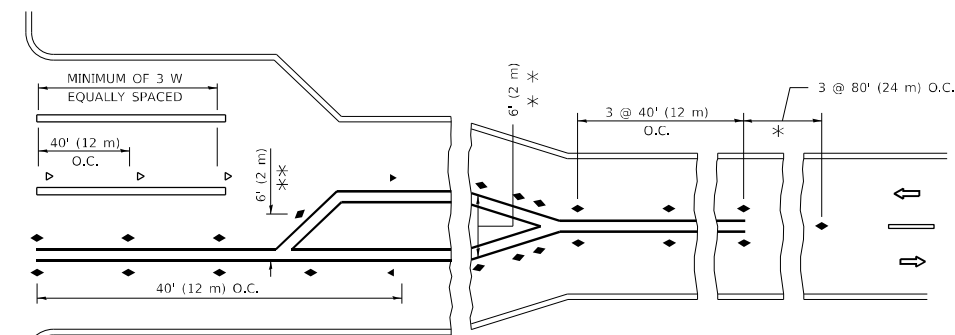
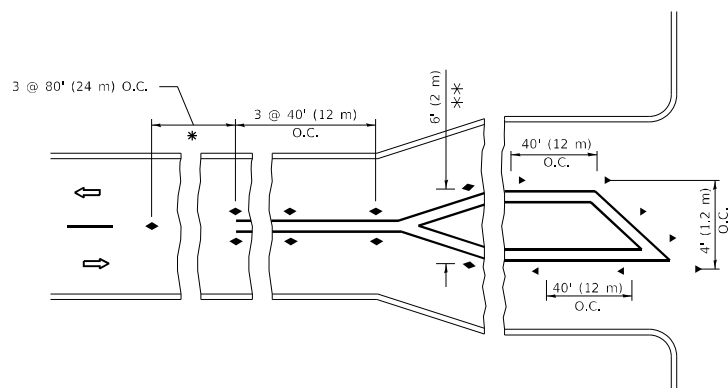
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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 SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



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

TURN LANES

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

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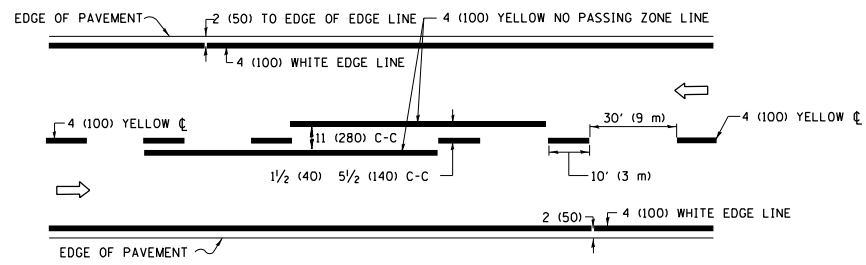
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| PLOT SCALE = 100,0000' / in. | DRAWN - | REVISED - T. RAMMACHER 01-06-00 |
| PLOT DATE = 8/16/2021 | CHECKED - | REVISED - C. JUCIUS 09-09-09 |
| | DATE - | REVISED - C. JUCIUS 07-01-13 |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

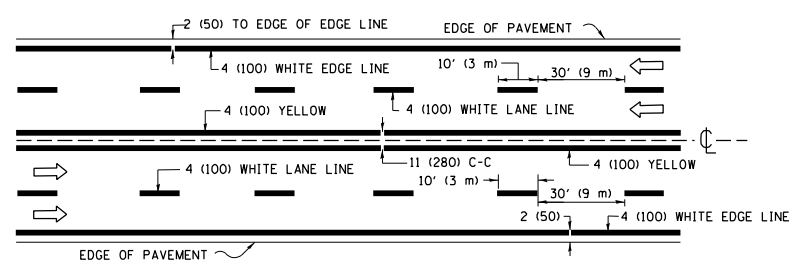
**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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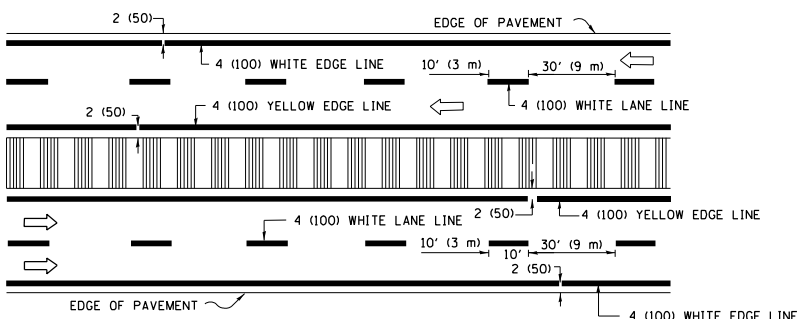
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | 87 | 65 |
| TC-11 | | | CONTRACT NO. | |
| ILLINOIS FED. AID PROJECT | | | | |



2-LANE ROADWAY

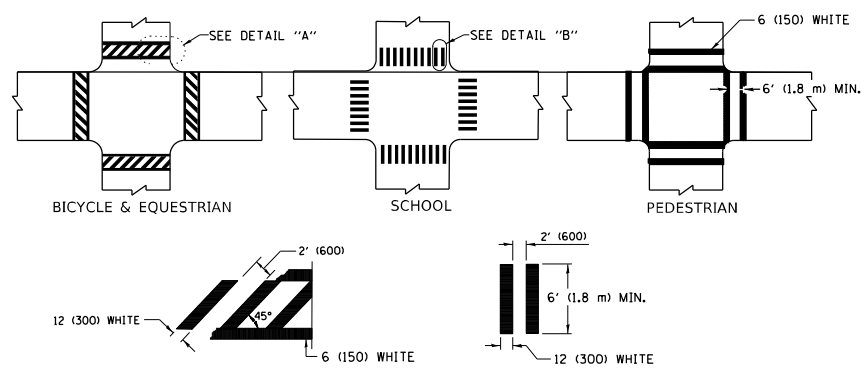


MULTI-LANE UNDIVIDED



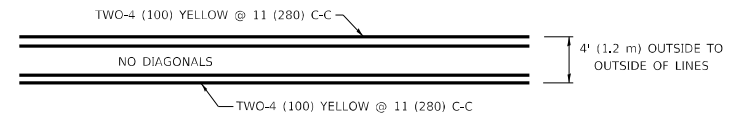
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

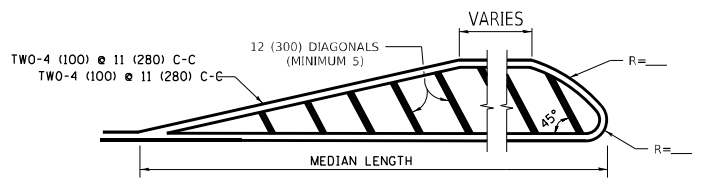


TYPICAL CROSSWALK MARKING

* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES

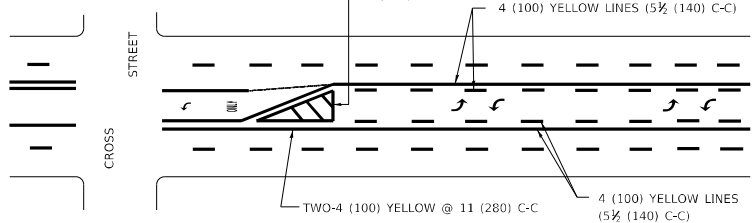


4' (1.2 m) WIDE MEDIANS ONLY



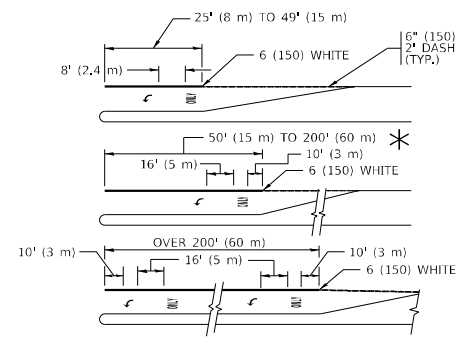
MEDIANS OVER 4' (1.2 m) WIDE

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



MEDIAN WITH TWO-WAY LEFT TURN LANE

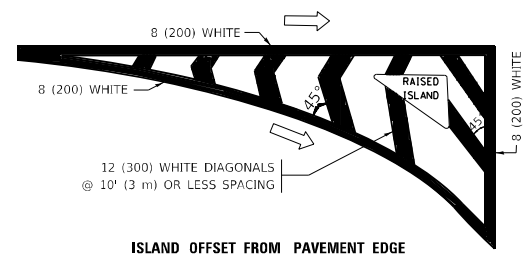
TYPICAL PAINTED MEDIAN MARKING



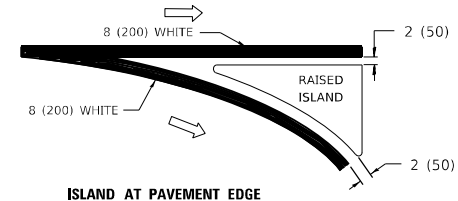
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

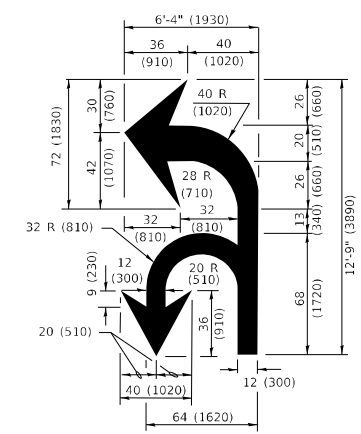


ISLAND OFFSET FROM PAVEMENT EDGE

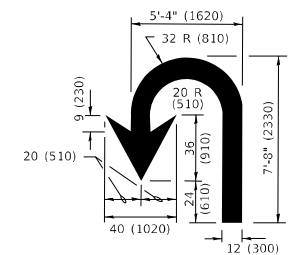


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION
* LANE REDUCTION ARROWS REQUIRED AT SPEEDS OF 45 MPH OR GREATER OR WHEN SPECIFIED IN PLANS.

| D(FT) | SPEED LIMIT |
|-------|-------------|
| 345 | 30 |
| 425 | 35 |
| 500 | 40 |
| 580 | 45 |
| 665 | 50 |
| 750 | 55 |

| 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 1/2 (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 MEDIANS IN YELLOW |
| 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 1/2 (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 8' (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 (REQUIRED FOR SHOULDERS ≥ 8') | 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)) |
| U TURN ARROW | SEE DETAIL | SOLID | WHITE | 16.3 SF |
| 2 ARROW COMBINATION LEFT AND U TURN | SEE DETAIL | SOLID | WHITE | 30.4 SF |

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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| PLOT SCALE = 100,0000' / in. | CHECKED - | REVISED - C. JUCIUS 07-01-13 |
| PLOT DATE = 8/16/2021 | DATE - 03-19-90 | REVISED - C. JUCIUS 12-21-15 |
| | | REVISED - C. JUCIUS 04-12-16 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------|---------|------------------|--------------|-----------|
| | | | 87 | 66 |
| TC-13 | | | CONTRACT NO. | |
| ILLINOIS | | FED. AID PROJECT | | |

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

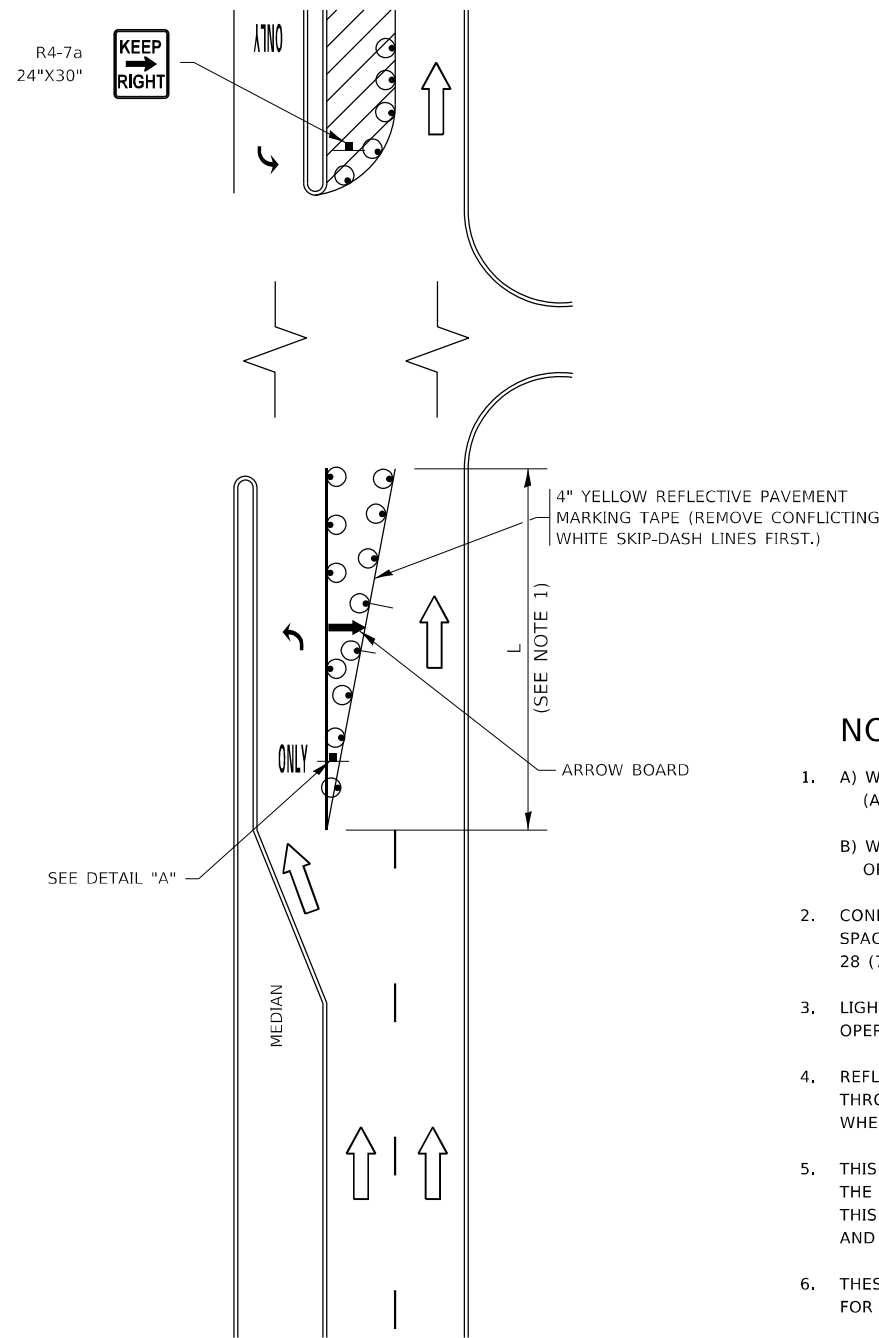


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

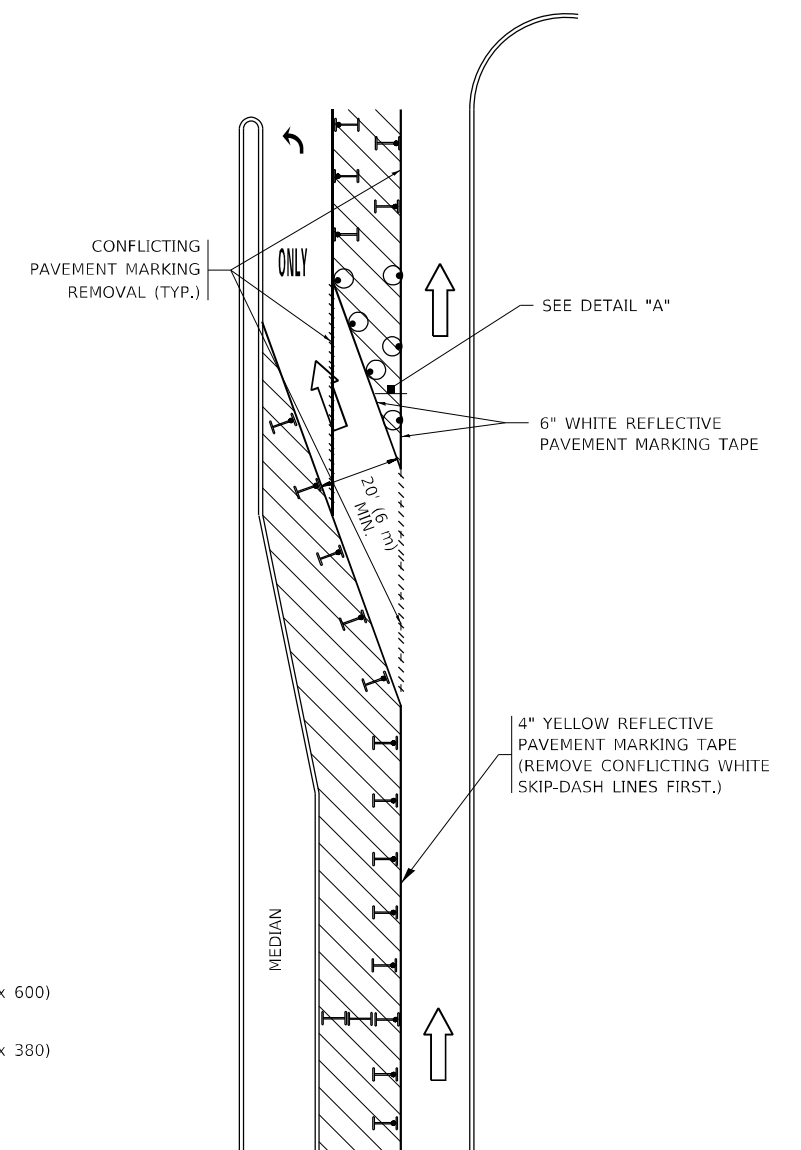
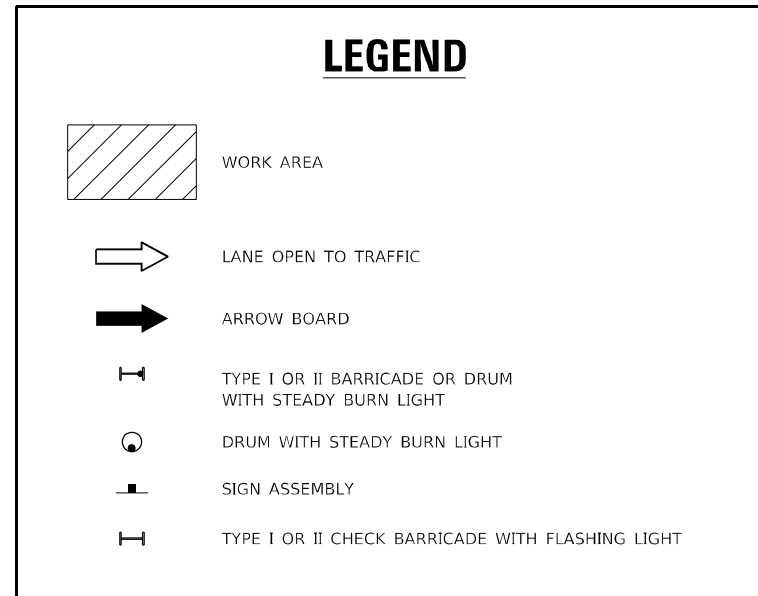
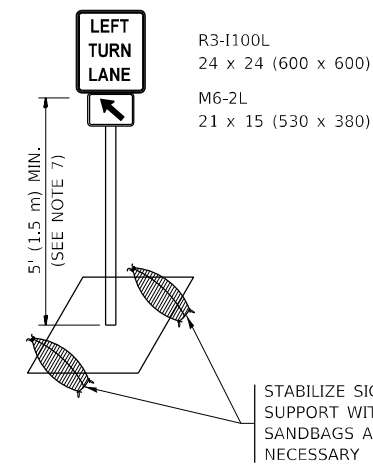


FIGURE 2



NOTES:

1. A) WHEN "L" IS \leq THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
B) WHEN "L" IS $>$ THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 x 15 (530 x 380) SHALL BE USED.
6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH REQUIREMENTS.
8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.



DETAIL A

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

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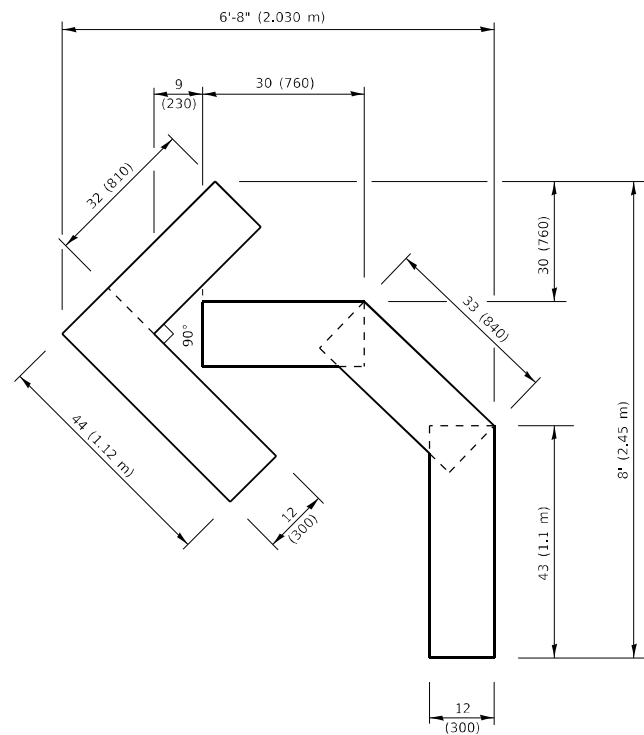
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| USER NAME = rostkowsdr | DESIGNED - T. RAMMACHER 09-08-94 | REVISED - R. BORO 09-14-09 |
| | DRAWN - A. HOUSEH 11-07-95 | REVISED - A. SCHUETZE 07-01-13 |
| PLOT SCALE = 100,0000' / in. | CHECKED - A. HOUSEH 10-12-96 | REVISED - A. SCHUETZE 09-15-16 |
| PLOT DATE = 8/16/2021 | DATE - T. RAMMACHER 01-06-00 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

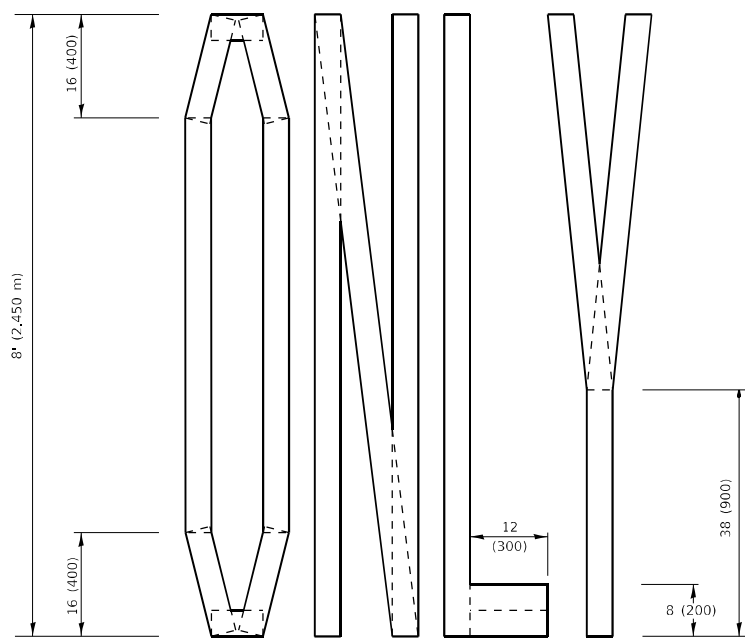
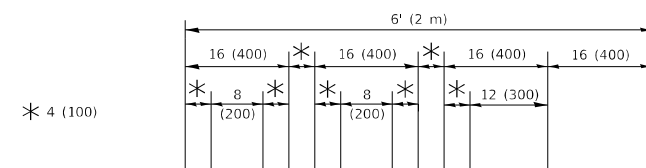
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | TC-14 | | 87 | 67 |
| ILLINOIS FED. AID PROJECT | | | CONTRACT NO. | |



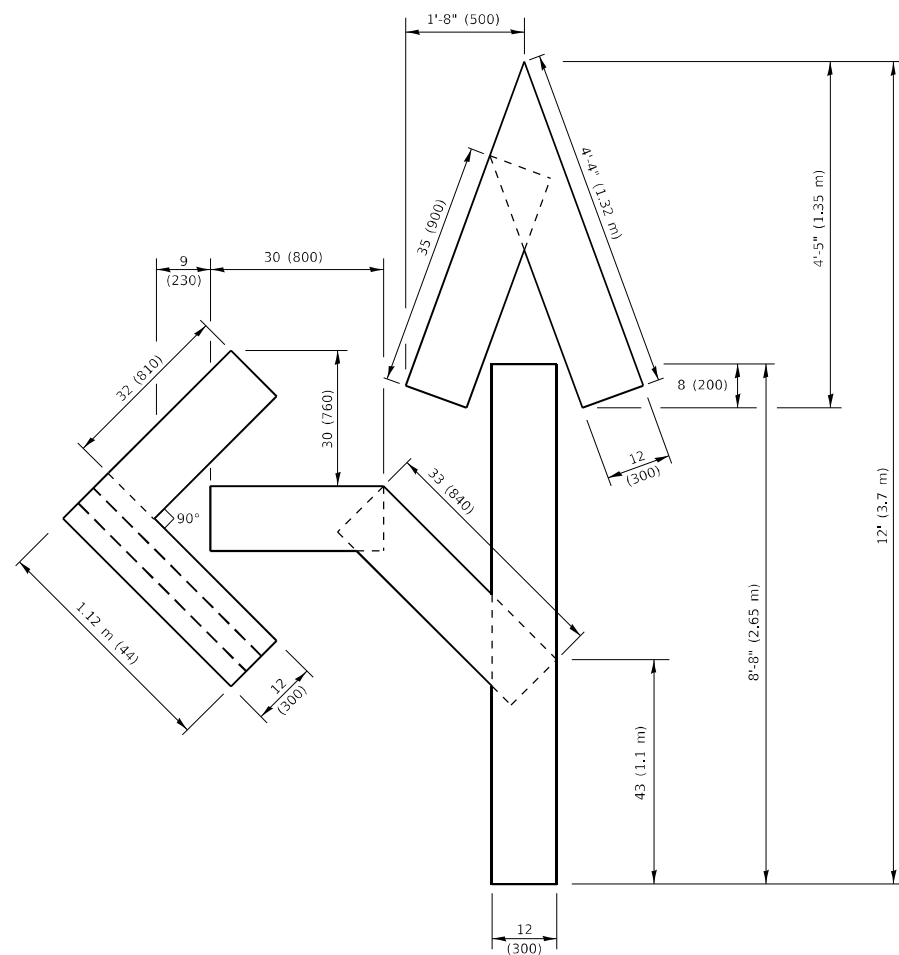
QUANTITY

4 (100) LINE = 45.5 ft. (13.9 m)
15.2 sq. ft. (1.41 sq. m)



QUANTITY

4 (100) LINE = 64.1 ft. (19.5 m)
21.4 sq. ft. (1.99 sq. m)

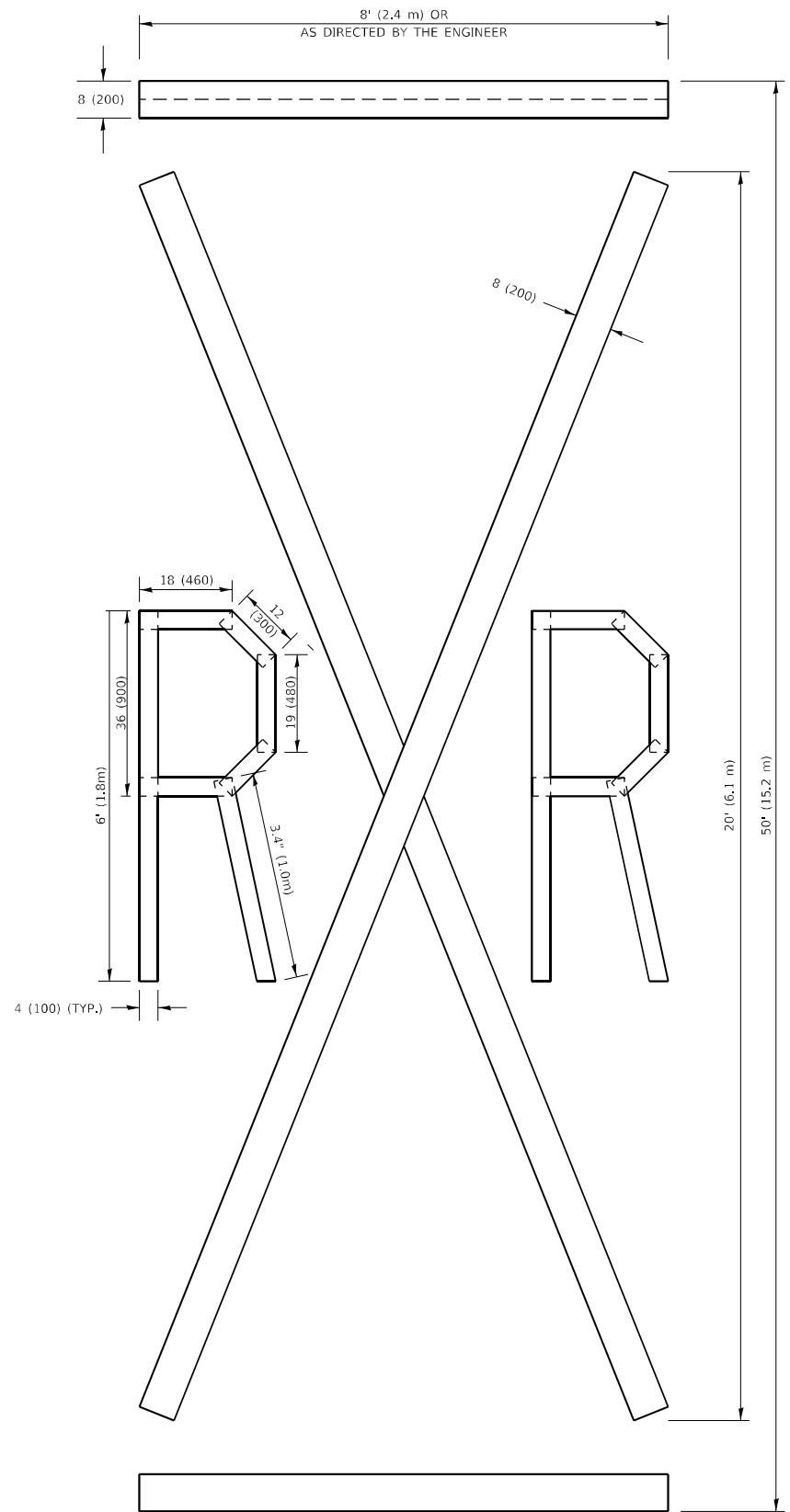


QUANTITY

4 (100) LINE = 82.5 ft. (25.1 m)
27.5 sq. ft. (2.53 sq. m)

NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.



QUANTITY

4 (100) LINE = 225.9 ft. (68.9 m)
75.3 sq. ft. (6.99 sq. m)

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

MODEL: Default
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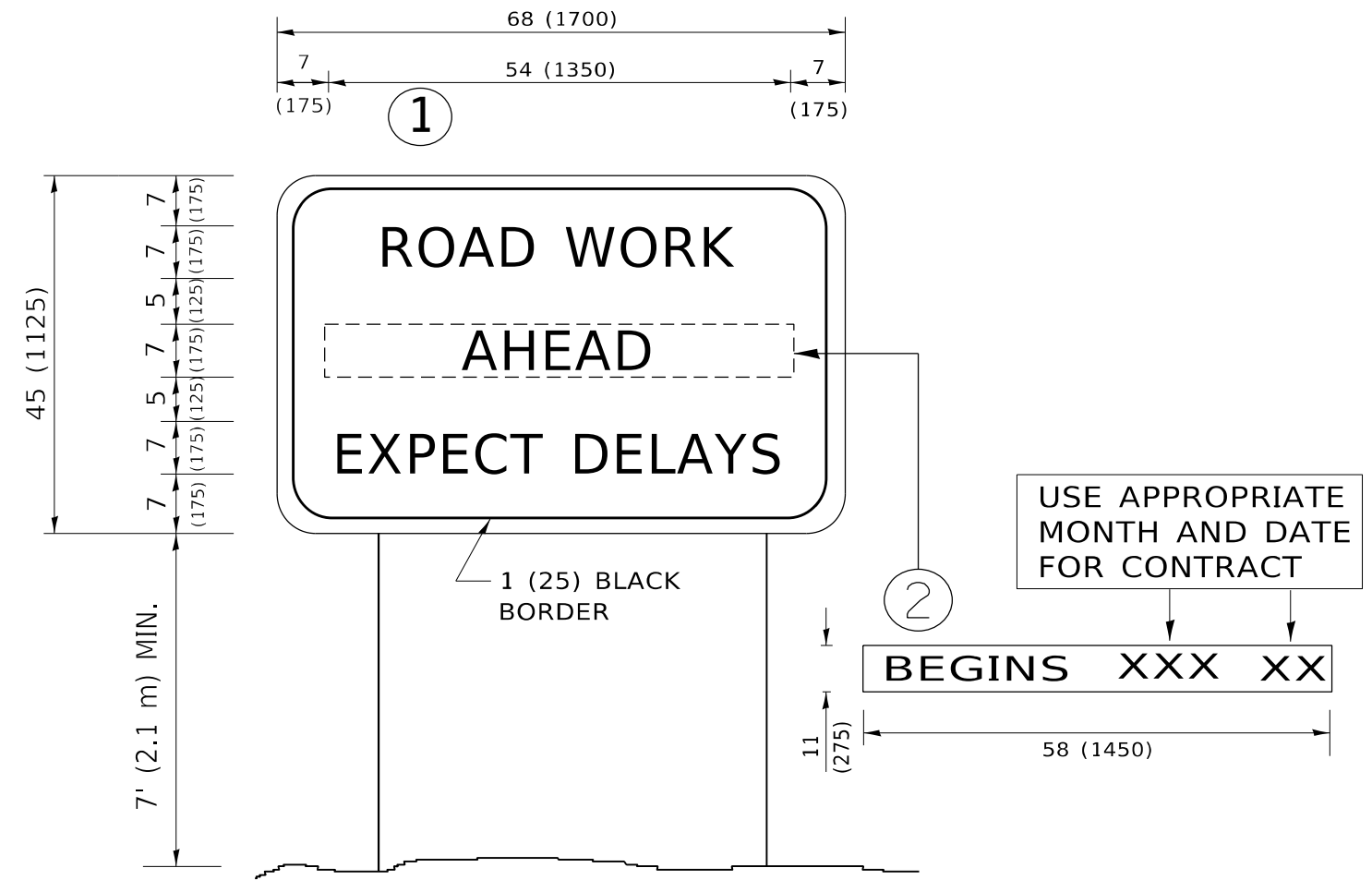
| | | |
|-------------------------------|-----------------|--------------------------------|
| USER NAME = rostkowski | DESIGNED - | REVISED - T. RAMMACH 03-02-98 |
| PLOT SCALE = 100,0010 ' / in. | DRAWN - | REVISED - E. GOMEZ 08-28-00 |
| PLOT DATE = 8/16/2021 | CHECKED - | REVISED - E. GOMEZ 08-28-00 |
| | DATE - 09-18-94 | REVISED - A. SCHUETZE 09-15-16 |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | 87 | 68 |
| TC-16 | | | CONTRACT NO. | |
| ILLINOIS FED. AID PROJECT | | | | |



NOTES:

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

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

MODEL: Default
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| | | |
|-------------------------------|------------|---------------------------------|
| USER NAME = rostkowsdr | DESIGNED - | REVISED - R. MIRS 09-15-97 |
| | DRAWN - | REVISED - R. MIRS 12-11-97 |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - | REVISED - T. RAMMACHER 02-02-99 |
| PLOT DATE = 8/16/2021 | DATE - | REVISED - C. JUCIUS 01-31-07 |

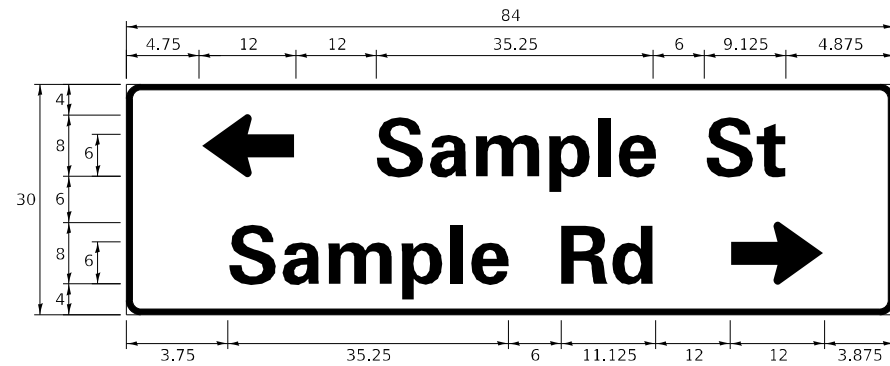
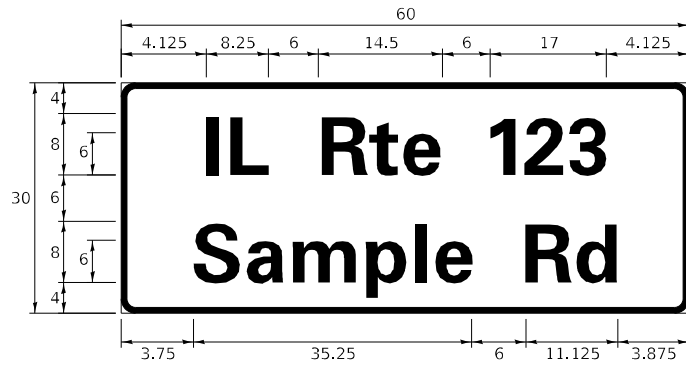
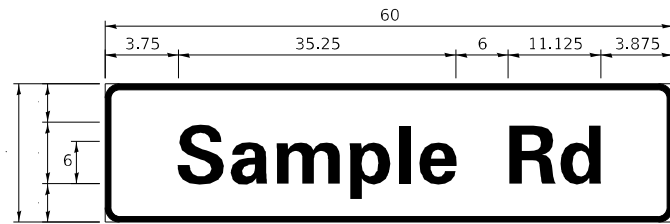
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | 87 | 69 |
| TC-22 | | | CONTRACT NO. | |
| ILLINOIS FED. AID PROJECT | | | | |

SIGN PANEL – TYPE 1 OR TYPE 2



| DESIGN SERIES | AREA (SQ FT) | SIGN PANEL TYPE | SHEETING TYPE | QTY. REQUIRED |
|---------------|--------------|-----------------|---------------|---------------|
| D OR C | - | 1 OR 2 | ZZ | - |

COMMON STREET NAME ABBREVIATIONS AND WIDTHS

| NAME | ABBREVIATION | WIDTH (INCH) | |
|---------------|--------------|--------------|------------|
| | | SERIES "C" | SERIES "D" |
| AVENUE | Ave | 15.000 | 18.250 |
| BOULEVARD | Blvd | 17.125 | 20.000 |
| CIRCLE | Cir | 11.125 | 13.000 |
| COURT | Ct | 8.250 | 9.625 |
| DRIVE | Dr | 8.625 | 10.125 |
| HIGHWAY | Hwy | 18.375 | 22.000 |
| ILLINOIS | IL | 7.000 | 8.250 |
| LANE | Ln | 9.125 | 10.750 |
| PARKWAY | Pkwy | 23.375 | 27.375 |
| PLACE | Pl | 7.125 | 7.750 |
| ROAD | Rd | 9.625 | 11.125 |
| ROUTE | Rte | 12.625 | 14.500 |
| STREET | St | 8.000 | 9.125 |
| TERRACE | Ter | 12.625 | 14.625 |
| TRAIL | Tr | 7.750 | 9.125 |
| UNITED STATES | US | 10.375 | 12.250 |

GENERAL NOTES

- WHERE MAST ARM MOUNTED STREET NAME SIGNS ARE SPECIFIED, THE MAST ARM ASSEMBLY AND POLES SHALL BE DESIGNED TO SUPPORT THE LOADINGS CALLED FOR ON STANDARDS 877001, 877002, 877006, 877011 AND 877012, AS APPLICABLE, PLUS TWO (2) SIGN PANELS 2'-6" x 8'-0" MOUNTED AS SHOWN. THE DESIGN SHALL BE IN ACCORDANCE WITH THE REQUIREMENTS OF THE CURRENT "STANDARD SPECIFICATIONS FOR STRUCTURAL SUPPORTS FOR HIGHWAY SIGNS, LUMINAIRES, AND TRAFFIC SIGNALS" AS PUBLISHED BY THE AMERICAN ASSOCIATION OF STATE HIGHWAY AND TRANSPORTATION OFFICIALS FOR 80 M.P.H. WIND VELOCITY.
- ALL SIGNS SHALL CONSIST OF A WHITE LEGEND AND BORDER (TYPE ZZ SHEETING) ON A GREEN BACKGROUND (TYPE ZZ SHEETING)
- THE SIGN LENGTH SHALL BE IN 6-INCH INCREMENTS, BUT THE OVERALL LENGTH SHALL NOT EXCEED 8'-0". ALL BORDERS IF POSSIBLE, BUT MAY BE REDUCED TO 5" WHEN SPACING IS CRITICAL. A MINIMUM OF 2-1/2" SHALL BE INCLUDED BETWEEN THE WORD AND THE RIGHT AND LEFT EDGES OF THE SIGN.
- A PREFERRED METHOD FOR THE SIGN DESIGN IS TO USE SERIES "D" LETTER ON A ONE-LINE SIGN 18" IN HEIGHT AND A MAXIMUM OF 8'-0" IN WIDTH. IF SERIES "D" DOES NOT FIT ON A 8'-0" SIGN, THEN SERIES "C" SHOULD BE TRIED. IF SERIES "C" DOES NOT FIT ON A 8'-0" SIGN, A 30" HIGH TWO-LINE SIGN CAN BE USED. THE CROSSROAD DESIGNATION AS TO STREET, AVENUE, ETC. SHOULD BE SPELLED OUT ON THE SECOND LINE, IF THE ABBREVIATION CANNOT FIT ON THE FIRST LINE.
- LED ILLUMINATED STREET NAME SIGNS CAN BE USED IN PLACE OF REGULAR SIGN PANELS BUT ANY SPECIAL WORDING AND SYMBOLOGY MUST BE APPROVED BY THE DEPARTMENT. GENERAL DESIGN REQUIREMENT AS LISTED ABOVE (COLOR, FONT, SIZE, ETC.) MUST BE FOLLOWED.
- SIGNFIX ALUMINUM CHANNEL FRAMING SYSTEM SHALL BE USED FOR ALL SIGNS ATTACHED TO SIGNAL POLES AND POSTS.

LOCAL SUPPLIERS:

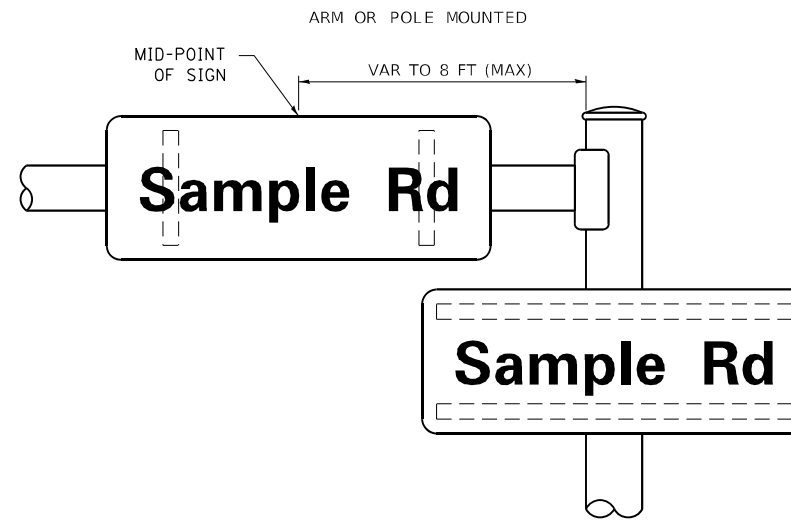
- J.O. HERBERT COMPANY, INC
MIDLOTHIAN, VA
- WESTERN REMAC, INC.
WOODRIDGE, IL

PARTS LISTING:

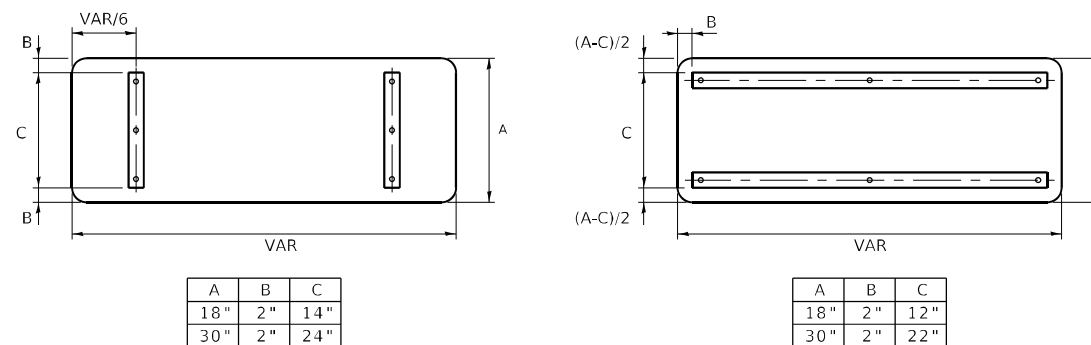
- SIGN CHANNEL PART #HPN053 (MED. CHANNEL)
- SIGN SCREWS 1/4" x 14 x 1" H.W.H. #3
SELF TAPPING WITH NEOPRENE WASHER
- BRACKETS PART #HPN034 (UNIVERSAL)
CHANNEL CLAMPS WITH STAINLESS STEEL STRAPPING

OTHER BRANDS OF MOUNTING HARDWARE ARE ACCEPTABLE, BASED UPON THE DEPARTMENT'S APPROVAL AND COMPATIBILITY WITH THE CHANNEL/BACKET OF THE ABOVE PRODUCT.

MOUNTING LOCATION



SUPPORTING CHANNELS



STANDARD ALPHABETS SPACING CHART

(8") UPPER CASE AND (6") LOWER CASE

| CHARACTER | FHWA SERIES "C" | | | FHWA SERIES "D" | | | |
|-----------|---------------------|--------------|----------------------|-----------------|---------------------|--------------|----------------------|
| | LEFT SPACING (INCH) | WIDTH (INCH) | RIGHT SPACING (INCH) | CHARACTER | LEFT SPACING (INCH) | WIDTH (INCH) | RIGHT SPACING (INCH) |
| A | 0.240 | 5.122 | 0.240 | A | 0.240 | 6.804 | 0.240 |
| B | 0.880 | 4.482 | 0.480 | B | 0.960 | 5.446 | 0.400 |
| C | 0.720 | 4.482 | 0.720 | C | 0.800 | 5.446 | 0.800 |
| D | 0.880 | 4.482 | 0.720 | D | 0.960 | 5.446 | 0.800 |
| E | 0.880 | 4.082 | 0.480 | E | 0.960 | 4.962 | 0.400 |
| F | 0.880 | 4.082 | 0.240 | F | 0.960 | 4.962 | 0.240 |
| G | 0.720 | 4.482 | 0.720 | G | 0.800 | 5.446 | 0.800 |
| H | 0.880 | 4.482 | 0.880 | H | 0.960 | 5.446 | 0.960 |
| I | 0.880 | 1.120 | 0.880 | I | 0.960 | 1.280 | 0.960 |
| J | 0.240 | 4.082 | 0.880 | J | 0.240 | 5.122 | 0.960 |
| K | 0.880 | 4.482 | 0.480 | K | 0.960 | 5.604 | 0.400 |
| L | 0.880 | 4.082 | 0.240 | L | 0.960 | 4.962 | 0.240 |
| M | 0.880 | 5.284 | 0.880 | M | 0.960 | 6.244 | 0.960 |
| N | 0.880 | 4.482 | 0.880 | N | 0.960 | 5.446 | 0.960 |
| O | 0.720 | 4.722 | 0.720 | O | 0.800 | 5.684 | 0.800 |
| P | 0.880 | 4.482 | 0.720 | P | 0.960 | 5.446 | 0.240 |
| Q | 0.720 | 4.722 | 0.720 | Q | 0.800 | 5.684 | 0.800 |
| R | 0.880 | 4.482 | 0.480 | R | 0.960 | 5.446 | 0.400 |
| S | 0.480 | 4.482 | 0.480 | S | 0.400 | 5.446 | 0.400 |
| T | 0.240 | 4.082 | 0.240 | T | 0.240 | 4.962 | 0.240 |
| U | 0.880 | 4.482 | 0.880 | U | 0.960 | 5.446 | 0.960 |
| V | 0.240 | 4.962 | 0.240 | V | 0.240 | 6.084 | 0.240 |
| W | 0.240 | 6.084 | 0.240 | W | 0.240 | 7.124 | 0.240 |
| X | 0.240 | 4.722 | 0.240 | X | 0.400 | 5.446 | 0.400 |
| Y | 0.240 | 5.122 | 0.240 | Y | 0.240 | 6.884 | 0.240 |
| Z | 0.480 | 4.482 | 0.480 | Z | 0.400 | 5.446 | 0.400 |
| a | 0.320 | 3.842 | 0.640 | a | 0.400 | 4.562 | 0.720 |
| b | 0.720 | 4.082 | 0.480 | b | 0.800 | 4.802 | 0.480 |
| c | 0.480 | 4.002 | 0.240 | c | 0.480 | 4.722 | 0.240 |
| d | 0.480 | 4.082 | 0.720 | d | 0.480 | 4.802 | 0.800 |
| e | 0.480 | 4.082 | 0.320 | e | 0.480 | 4.722 | 0.320 |
| f | 0.320 | 2.480 | 0.160 | f | 0.320 | 2.882 | 0.160 |
| g | 0.480 | 4.082 | 0.720 | g | 0.480 | 4.802 | 0.800 |
| h | 0.720 | 4.082 | 0.640 | h | 0.800 | 4.722 | 0.720 |
| i | 0.720 | 1.120 | 0.720 | i | 0.800 | 1.280 | 0.800 |
| j | 0.000 | 2.320 | 0.720 | j | 0.000 | 2.642 | 0.800 |
| k | 0.720 | 4.322 | 0.160 | k | 0.800 | 5.122 | 0.160 |
| l | 0.720 | 1.120 | 0.720 | l | 0.800 | 1.280 | 0.800 |
| m | 0.720 | 6.724 | 0.640 | m | 0.800 | 7.926 | 0.720 |
| n | 0.720 | 4.082 | 0.640 | n | 0.800 | 4.722 | 0.720 |
| o | 0.480 | 4.082 | 0.480 | o | 0.480 | 4.882 | 0.480 |
| p | 0.720 | 4.082 | 0.480 | p | 0.800 | 4.802 | 0.480 |
| q | 0.480 | 4.082 | 0.720 | q | 0.480 | 4.802 | 0.800 |
| r | 0.720 | 2.642 | 0.160 | r | 0.800 | 3.042 | 0.160 |
| s | 0.320 | 3.362 | 0.240 | s | 0.320 | 3.762 | 0.240 |
| t | 0.080 | 2.882 | 0.080 | t | 0.080 | 3.202 | 0.080 |
| u | 0.640 | 4.082 | 0.720 | u | 0.720 | 4.722 | 0.800 |
| v | 0.160 | 4.722 | 0.160 | v | 0.160 | 5.684 | 0.160 |
| w | 0.160 | 7.524 | 0.160 | w | 0.160 | 9.046 | 0.160 |
| x | 0.000 | 5.202 | 0.000 | x | 0.000 | 6.244 | 0.000 |
| y | 0.160 | 4.962 | 0.160 | y | 0.160 | 6.004 | 0.160 |
| z | 0.240 | 3.362 | 0.240 | z | 0.240 | 4.002 | 0.240 |
| 1 | 0.720 | 1.680 | 0.880 | 1 | 0.800 | 2.000 | 0.960 |
| 2 | 0.480 | 4.482 | 0.480 | 2 | 0.800 | 5.446 | 0.800 |
| 3 | 0.480 | 4.482 | 0.480 | 3 | 1.440 | 5.446 | 0.800 |
| 4 | 0.240 | 4.962 | 0.720 | 4 | 0.160 | 6.004 | 0.960 |
| 5 | 0.480 | 4.482 | 0.480 | 5 | 0.800 | 5.446 | 0.800 |
| 6 | 0.720 | 4.482 | 0.720 | 6 | 0.800 | 5.446 | 0.800 |
| 7 | 0.240 | 4.482 | 0.720 | 7 | 0.560 | 5.446 | 0.560 |
| 8 | 0.480 | 4.482 | 0.480 | 8 | 0.800 | 5.446 | 0.800 |
| 9 | 0.480 | 4.482 | 0.480 | 9 | 0.800 | 5.446 | 0.800 |
| 0 | 0.720 | 4.722 | 0.720 | 0 | 0.800 | 5.684 | 0.800 |
| - | 0.240 | 2.802 | 0.240 | - | 0.240 | 2.802 | 0.240 |

| | | |
|------------------------------|-------------------|-------------------------|
| USER NAME = rostkowsidr | DESIGNED - LP/IP | REVISED - LP 07/01/2015 |
| DRAWN - LP | REVISED - | |
| PLOT SCALE = 100,0000' / in. | CHECKED - IP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 10/01/2014 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
MAST ARM MOUNTED STREET NAME SIGNS**

SCALE: SHEET OF SHEETS STA. TO STA.

| | | | | |
|--------------|---------|------------------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | 87 | 70 |
| TS-02 | | CONTRACT NO. | | |
| ILLINOIS | | FED. AID PROJECT | | |

TRAFFIC SIGNAL LEGEND

(NOT TO SCALE)

| ITEM | EXISTING | PROPOSED | ITEM | EXISTING | PROPOSED | ITEM | EXISTING | PROPOSED |
|---|----------|----------|--|----------|----------|---|----------|----------|
| CONTROLLER CABINET | | | HANDHOLE -SQUARE -ROUND | | | SIGNAL HEAD -(P) PROGRAMMABLE SIGNAL HEAD | | |
| COMMUNICATION CABINET | | | HEAVY DUTY HANDHOLE -SQUARE -ROUND | | | SIGNAL HEAD WITH BACKPLATE -(P) PROGRAMMABLE SIGNAL HEAD -(RB) RETROREFLECTIVE BACKPLATE | | |
| MASTER CONTROLLER | | | DOUBLE HANDHOLE | | | PEDESTRIAN SIGNAL HEAD AT RAILROAD INTERSECTIONS | | |
| MASTER MASTER CONTROLLER | | | JUNCTION BOX | | | PEDESTRIAN SIGNAL HEAD WITH COUNTDOWN TIMER | | |
| UNINTERRUPTABLE POWER SUPPLY | | | RAILROAD CANTILEVER MAST ARM | | | ILLUMINATED SIGN "NO LEFT TURN"/"NO RIGHT TURN" | | |
| SERVICE INSTALLATION -(P) POLE MOUNTED | | | RAILROAD FLASHING SIGNAL | | | NUMBER OF CONDUCTORS, ELECTRIC CABLE NO. 14, UNLESS NOTED OTHERWISE. ALL DETECTOR LOOP CABLE TO BE SHIELDED | | |
| SERVICE INSTALLATION -(G) GROUND MOUNTED -(GM) GROUND MOUNTED METERED | | | RAILROAD CROSSING GATE | | | GROUND CABLE IN CONDUIT, NO. 6 SOLID COPPER (GREEN) | | |
| TELEPHONE CONNECTION | | | RAILROAD CROSSBUCK | | | ELECTRIC CABLE IN CONDUIT, TRACER NO. 14 1/C | | |
| STEEL MAST ARM ASSEMBLY AND POLE | | | RAILROAD CONTROLLER CABINET | | | COAXIAL CABLE | | |
| ALUMINUM MAST ARM ASSEMBLY AND POLE | | | UNDERGROUND CONDUIT (UC), GALVANIZED STEEL | | | VENDOR CABLE | | |
| STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH LUMINAIRE | | | TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE | | | COPPER INTERCONNECT CABLE, NO. 18, 3 PAIR TWISTED, SHIELDED | | |
| SIGNAL POST -(BM) BARREL MOUNTED - TEMPORARY | | | SYSTEM ITEM | | | FIBER OPTIC CABLE -NO. 62.5/125, MM12F -NO. 62.5/125, MM12F SM12F -NO. 62.5/125, MM12F SM24F | | |
| WOOD POLE | | | INTERSECTION ITEM | | | GROUND ROD -(C) CONTROLLER -(M) MAST ARM -(P) POST -(S) SERVICE | | |
| GUY WIRE | | | REMOVE ITEM | | | | | |
| SIGNAL HEAD | | | RELOCATE ITEM | | | | | |
| SIGNAL HEAD WITH BACKPLATE | | | RELOCATE ITEM | | | | | |
| SIGNAL HEAD OPTICALLY PROGRAMMED | | | ABANDON ITEM | | | | | |
| FLASHER INSTALLATION -(FS) SOLAR POWERED | | | CONTROLLER CABINET AND FOUNDATION TO BE REMOVED | | | | | |
| PEDESTRIAN SIGNAL HEAD | | | MAST ARM POLE AND FOUNDATION TO BE REMOVED | | | | | |
| PEDESTRIAN PUSH BUTTON -(APS) ACCESSIBLE PEDESTRIAN PUSH BUTTON | | | SIGNAL POST AND FOUNDATION TO BE REMOVED | | | | | |
| RADAR DETECTION SENSOR | | | DETECTOR LOOP, TYPE I | | | | | |
| VIDEO DETECTION CAMERA | | | PREFORMED DETECTOR LOOP | | | | | |
| RADAR/VIDEO DETECTION ZONE | | | SAMPLING (SYSTEM) DETECTOR | | | | | |
| PAN, TILT, ZOOM (PTZ) CAMERA | | | INTERSECTION AND SAMPLING (SYSTEM) DETECTOR | | | | | |
| EMERGENCY VEHICLE LIGHT DETECTOR | | | QUEUE AND SAMPLING (SYSTEM) DETECTOR | | | | | |
| CONFIRMATION BEACON | | | WIRELESS DETECTOR SENSOR | | | | | |
| WIRELESS INTERCONNECT | | | WIRELESS ACCESS POINT | | | | | |
| WIRELESS INTERCONNECT RADIO REPEATER | | | | | | | | |

MODEL: Default
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| | | | |
|------------------------------|------------------|-----------|--|
| USER NAME = rostkowsdr | DESIGNED - IP | REVISED - | |
| | DRAWN - IP | REVISED - | |
| PLOT SCALE = 100,0000' / in. | CHECKED - LP | REVISED - | |
| PLOT DATE = 8/16/2021 | DATE - 9/29/2016 | REVISED - | |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

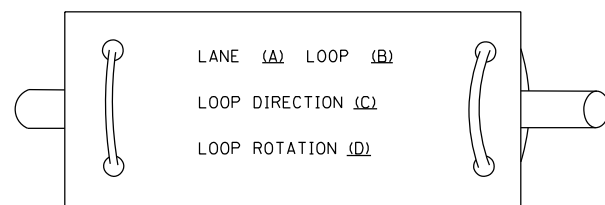
SCALE: NONE SHEET 1 OF 7 SHEETS STA. TO STA.

| | | | | |
|---------------------------|---------|--------|--------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | 87 | 71 |
| TS-05 | | | CONTRACT NO. | |
| ILLINOIS FED. AID PROJECT | | | | |

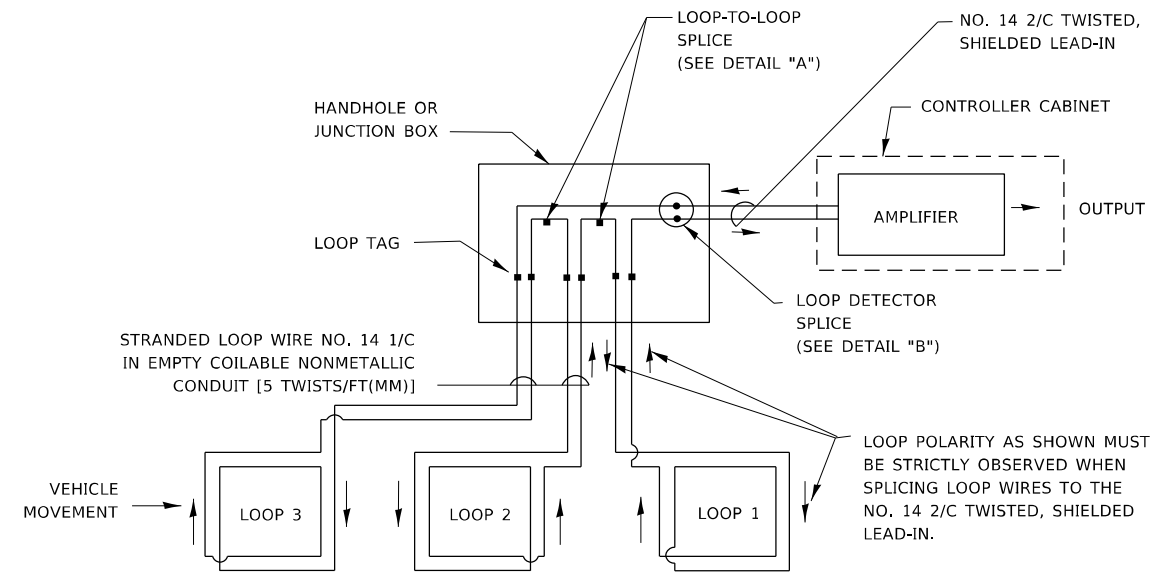
LOOP DETECTOR NOTES

1. 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.
2. 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.
3. 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.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. 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.
6. 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.
7. 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.

LOOP LEAD-IN CABLE TAG

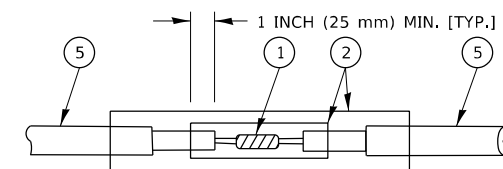


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

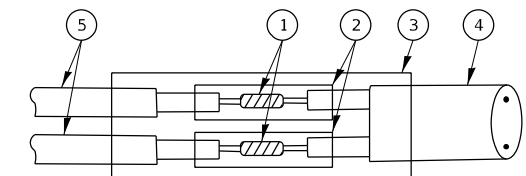


DETECTOR LOOP WIRING SCHEMATIC

- 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.

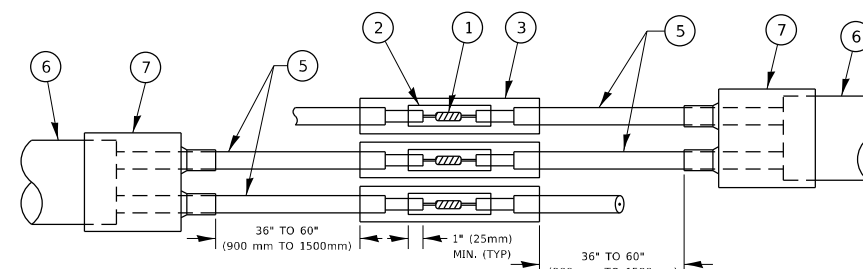


DETAIL "A"
LOOP-TO-LOOP SPLICE

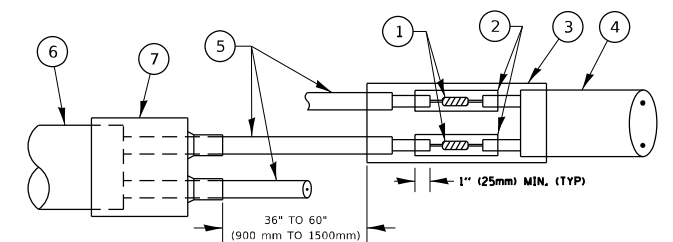


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

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

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| | | |
|------------------------------|------------|-----------|
| USER NAME = rostkowski | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| PLOT SCALE = 100,0000' / in. | CHECKED - | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

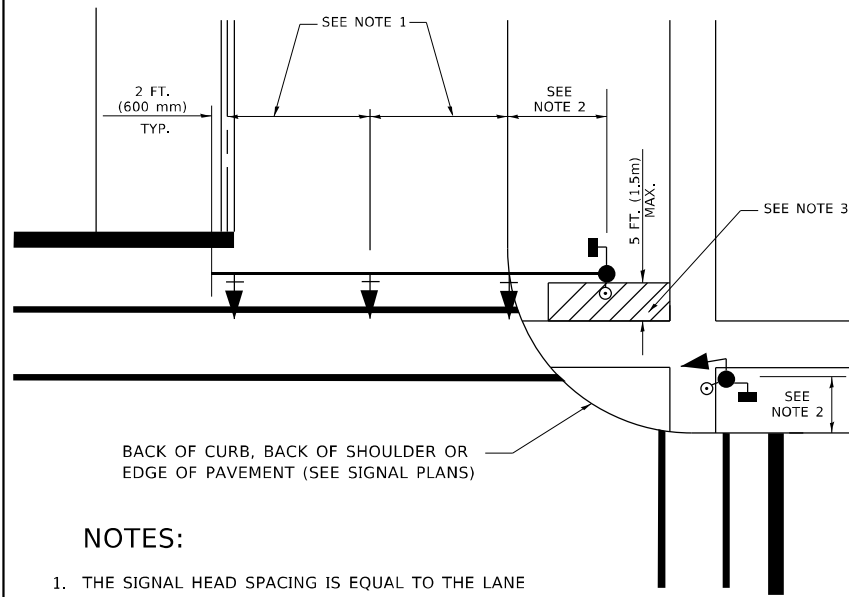
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

| | | | | |
|-----------|---------|--------|------------------|-----------|
| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | 87 | 72 |
| TS-05 | | | CONTRACT NO. | |
| ILLINOIS | | | FED. AID PROJECT | |

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST

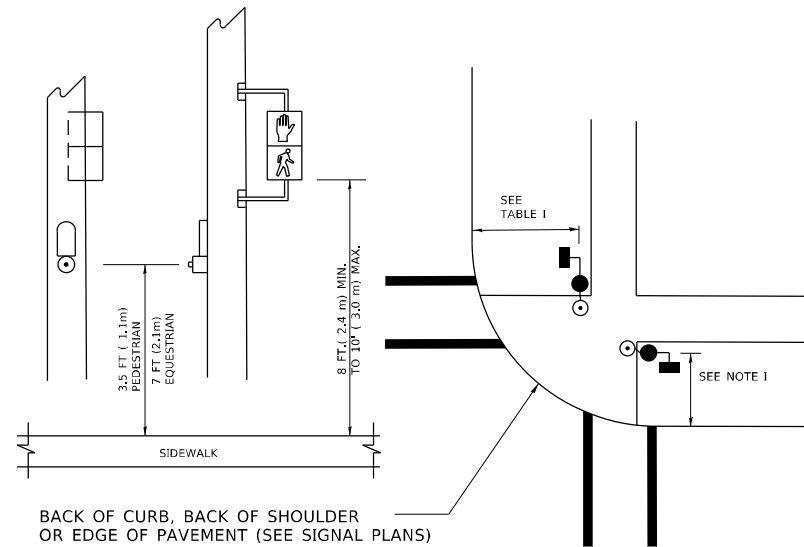
MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



NOTES:

1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
3. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
4. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

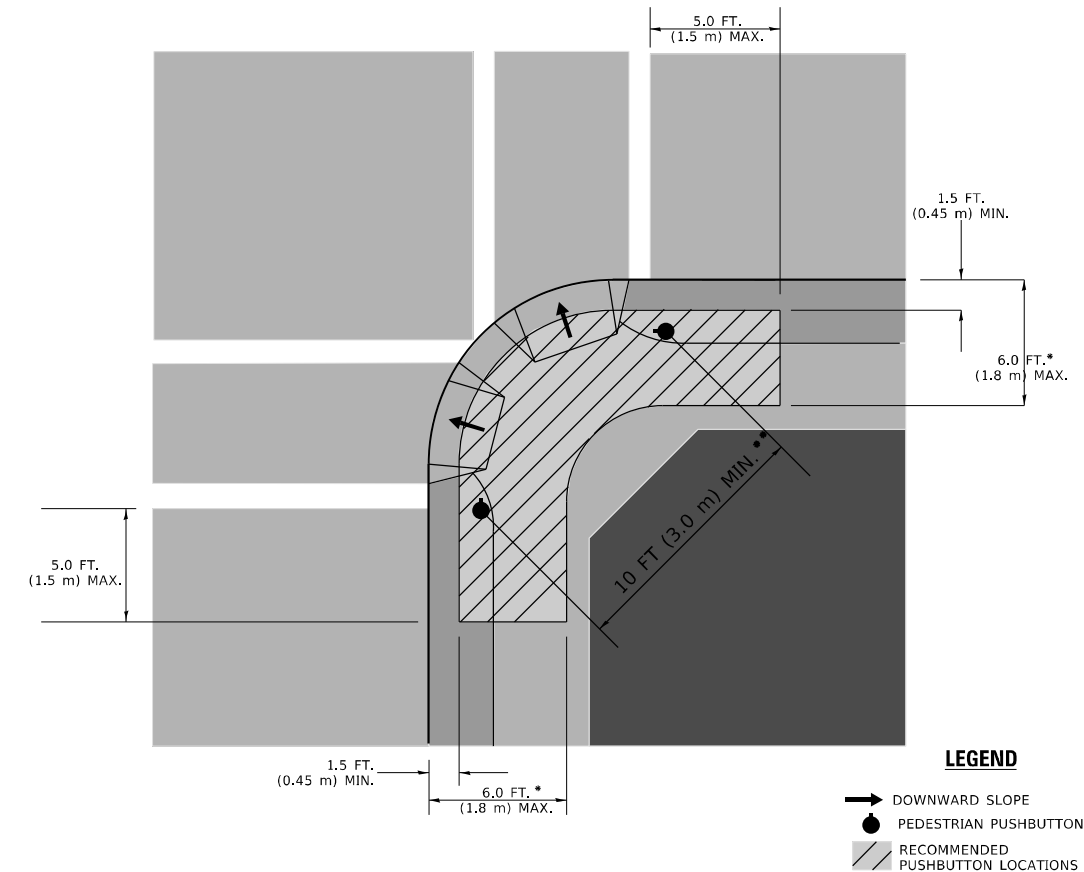
PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
2. PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

RECOMMENDED PUSHBUTTON LOCATIONS



- * WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- ** WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

1. PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT. (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAVEMENT.
5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAVEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

| TRAFFIC SIGNAL EQUIPMENT | COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION) | SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAVEMENT TO CENTERLINE OF FOUNDATION) |
|------------------------------------|---|---|
| TRAFFIC SIGNAL MAST ARM POLE | 6 FT (1.8m) | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m) |
| TRAFFIC SIGNAL POST | 4 FT (1.2m) | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m) |
| PEDESTRIAN SIGNAL POST | 4 FT (1.2m) | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m) |
| PEDESTRIAN PUSHBUTTON POST | 4 FT (1.2m) | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m) |
| TEMPORARY WOOD POLE | 6 FT (1.8m) | SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m) |
| CONTROLLER CABINET | 6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2 | SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3. |
| SERVICE INSTALLATION, GROUND MOUNT | 6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2 | SHOULDER WIDTH + 6 FT (1.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3. |

NOTES:

1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

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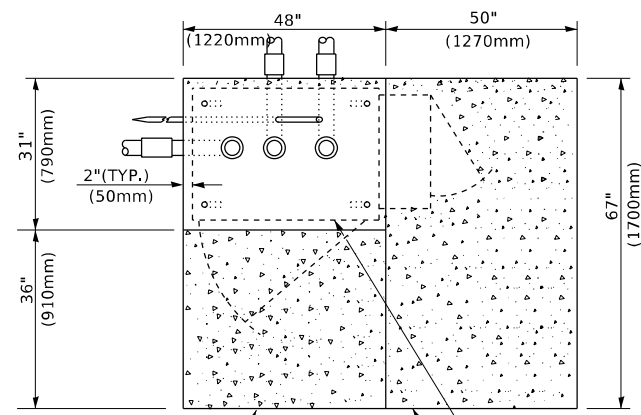
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| DRAWN - | REVISOR - | REVISOR - |
| PLOT SCALE = 100,0000 ' / in. | CHECKED - | REVISOR - |
| PLOT DATE = 8/16/2021 | DATE - | REVISOR - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

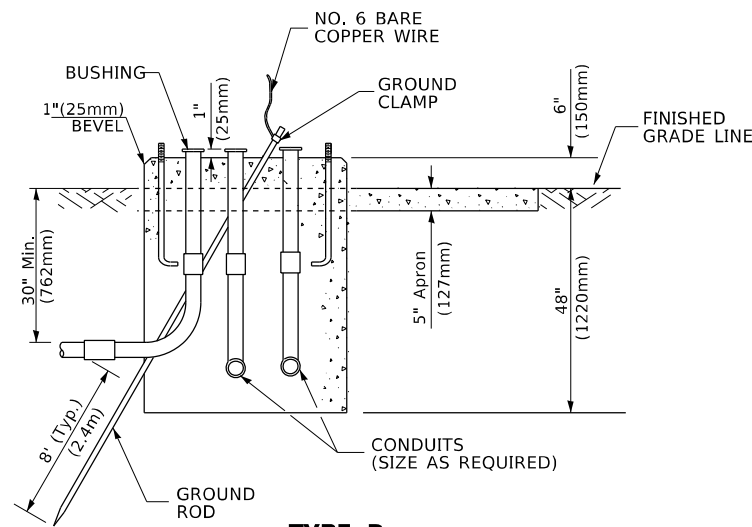
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 3 OF 7 SHEETS STA. TO STA.

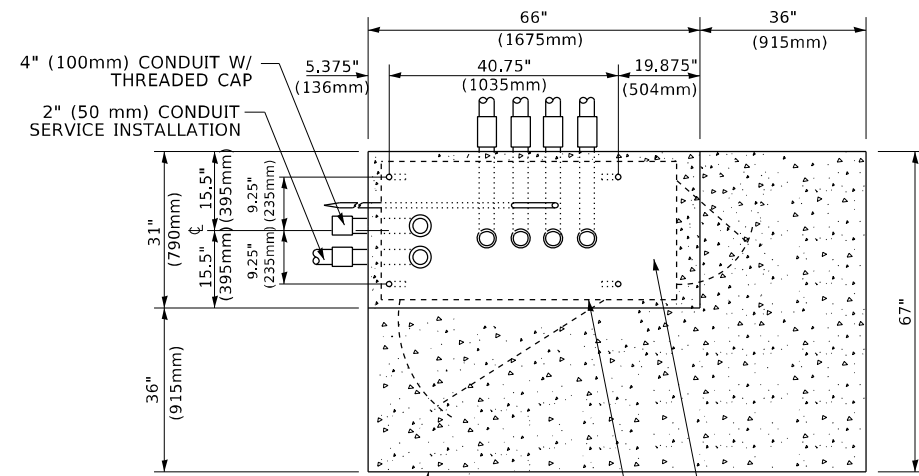
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | 87 | 73 |
| TS-05 | | | CONTRACT NO. | |
| ILLINOIS FED. AID PROJECT | | | | |



TOP VIEW

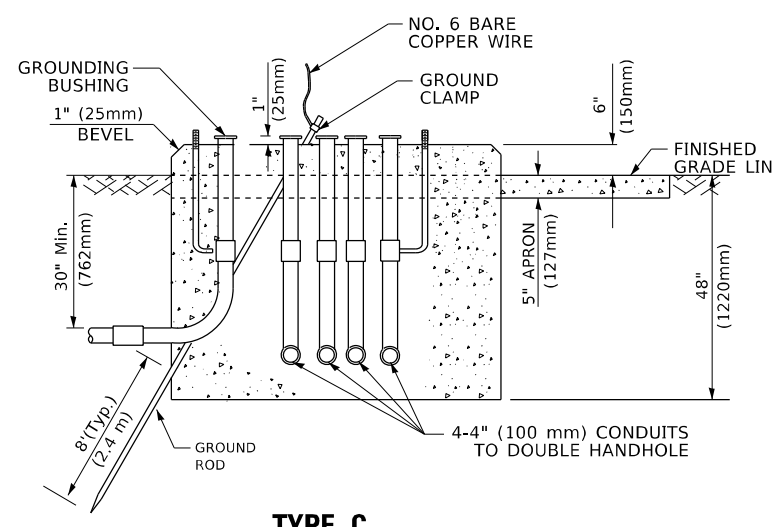


**TYPE D
FOR GROUND MOUNTED
CONTROLLER CABINET
AND UPS BATTERY CABINET**

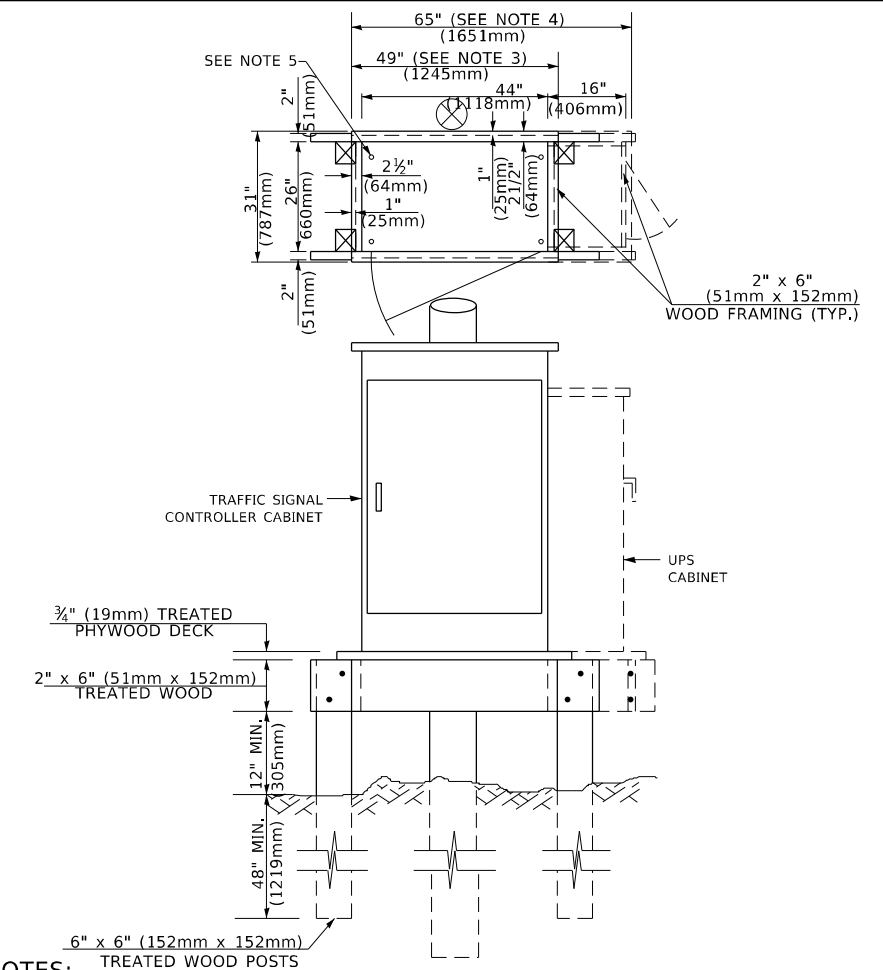


TOP VIEW

NOTE:
TOP OF FOUNDATION SHALL
BE HIGHER THAN TOP OF
DOUBLE HANDHOLE



**TYPE C
FOR GROUND MOUNTED
SUPER P (TYPE IV) AND SUPER R (TYPE V)
CONTROLLER CABINETS**



NOTES:

1. BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
2. BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm). ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.
4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
5. DRILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE. FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS.
6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

**TEMPORARY SIGNAL CONTROLLER
WOOD SUPPORT PLATFORM**

| CABLE SLACK LENGTH | FEET | METER |
|---|------|-------|
| HANDHOLE | 6.5 | 2.0 |
| DOUBLE HANDHOLE | 13.0 | 4.0 |
| SIGNAL POST | 2.0 | 0.6 |
| MAST ARM | 2.0 | 0.6 |
| CONTROLLER CABINET | 1.5 | 0.5 |
| FIBER OPTIC AT CABINET | 13.0 | 4.0 |
| ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION) | 1.5 | 0.5 |
| GROUND CABLE (SIGNAL POST, MAST ARM, CABINET) | 1.5 | 0.5 |
| GROUND CABLE (BETWEEN FRAME AND COVER) | 5.0 | 1.6 |

CABLE SLACK

| VERTICAL CABLE LENGTH | FEET | METER |
|--|--------|-------|
| MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD) (L = MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARM) | 20.0+L | 6.0+L |
| BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE) | 13.0 | 4.0 |
| PEDESTRIAN PUSH BUTTON | 6.0 | 2.0 |
| SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP | 13.5 | 4.1 |
| SERVICE INSTALLATION POLE MOUNT TO GROUND | 13.5 | 4.1 |
| SERVICE INSTALLATION GROUND MOUNT | 6.0 | 2.0 |
| FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT) | 3.0 | 1.0 |

VERTICAL CABLE LENGTH

| FOUNDATION | DEPTH |
|---|--------------|
| TYPE A - Signal Post | 4'-0" (1.2m) |
| TYPE C - CONTROLLER W/ UPS | 4'-0" (1.2m) |
| TYPE D - CONTROLLER | 4'-0" (1.2m) |
| SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SQUARE | 4'-0" (1.2m) |

DEPTH OF FOUNDATION

| MAST ARM LENGTH | ① FOUNDATION DEPTH | FOUNDATION DIAMETER | SPIRAL DIAMETER | QUANTITY OF REBARS | SIZE OF REBARS |
|--|--------------------|---------------------|-----------------|--------------------|----------------|
| Less than 30' (9.1 m) | 10'-0" (3.0 m) | 30" (750mm) | 24" (600mm) | 8 | 6(19) |
| Greater than or equal to 30' (9.1 m) and less than 40' (12.2 m) | 13'-6" (4.1 m) | 30" (750mm) | 24" (600mm) | 8 | 6(19) |
| Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m) | 11'-0" (3.4 m) | 36" (900mm) | 30" (750mm) | 12 | 7(22) |
| Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m) | 13'-0" (4.0 m) | 36" (900mm) | 30" (750mm) | 12 | 7(22) |
| Greater than or equal to 55' (16.8 m) and less than 65' (19.8 m) | 15'-0" (4.6 m) | 36" (900mm) | 30" (750mm) | 12 | 7(22) |
| Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m) | 21'-0" (6.4 m) | 42" (1060mm) | 36" (900mm) | 16 | 8(25) |
| | 25'-0" (7.6 m) | 42" (1060mm) | 36" (900mm) | 16 | 8(25) |

NOTES:

1. These foundation depths are for sites which have cohesive soils (clayey silt, sandy clay, etc.) along the length of the shaft, with an average unconfined compressive strength (qu) > 1.0 tsf (100 kpa). This strength shall be verified by boring data prior to construction or with testing by the Engineer during foundation drilling. The Bureau of Bridges & Structures should be contacted for a revised design if other conditions are encountered.
2. Combination mast arm assemblies under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
3. Combination mast arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm) diameter foundations.
4. For mast arm assemblies with dual arms refer to state standard 878001..

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

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| USER NAME = rostkowski | DESIGNED - | REVISED - |
| PLOT SCALE = 100,000' / in. | DRAWN - | REVISED - |
| PLOT DATE = 8/16/2021 | CHECKED - | REVISED - |
| | DATE - | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

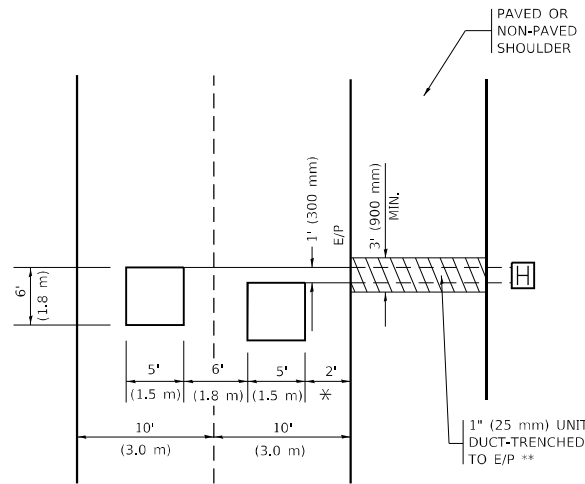
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

SCALE: NONE SHEET 5 OF 7 SHEETS STA. TO STA.

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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | | 87 | 75 |
| TS-05 | | | CONTRACT NO. | |
| ILLINOIS FED. AID PROJECT | | | | |

LOOPS NEXT TO SHOULDERS

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

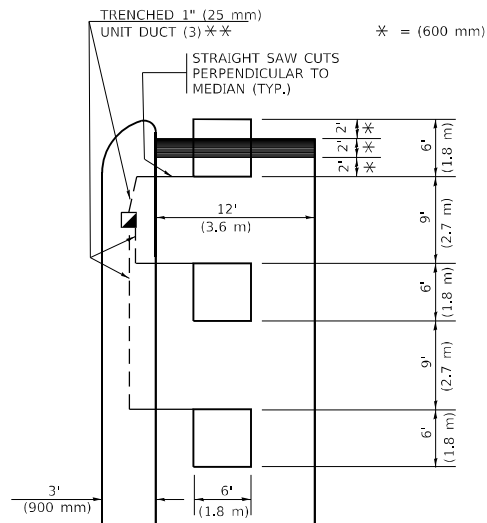


* = (600 mm)

** 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.

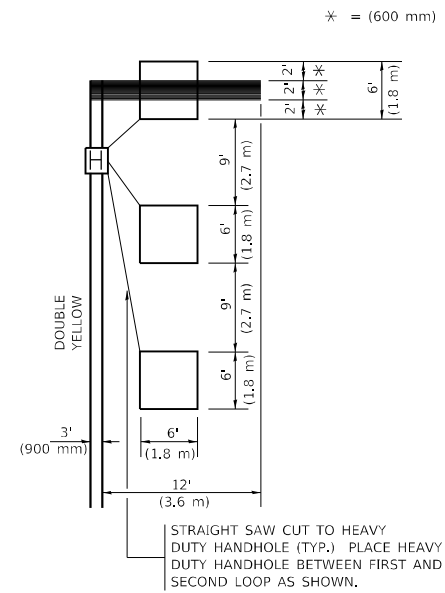


* = (600 mm)

** 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)



* = (600 mm)

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

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 SEPARATLY. 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.

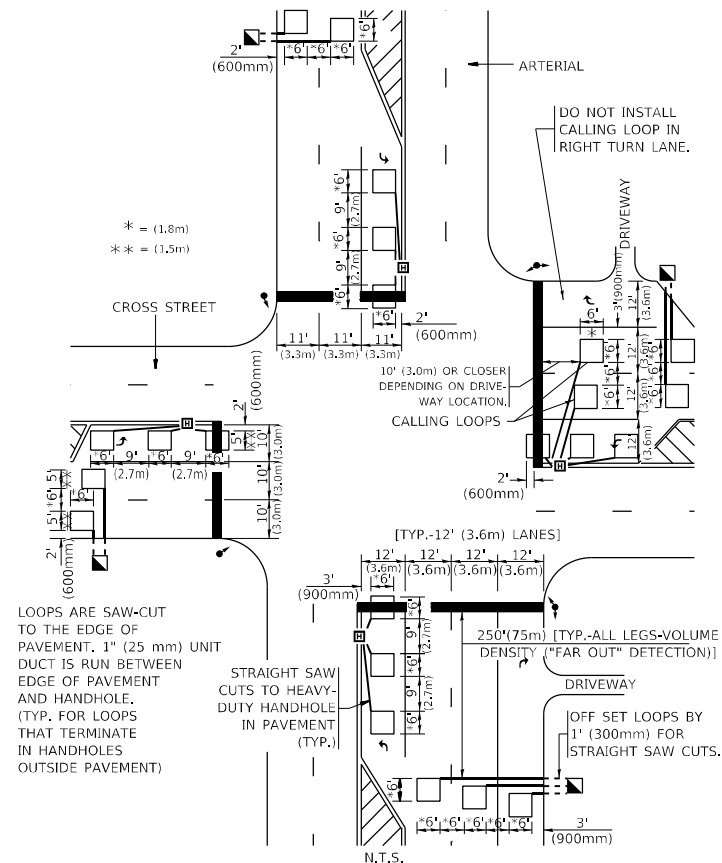
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

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



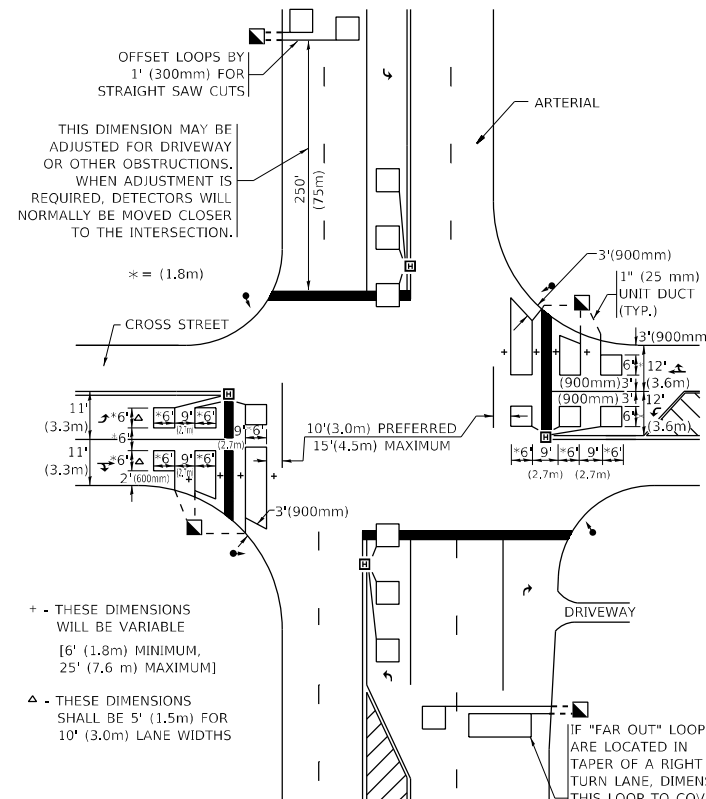
* = (1.8m)
 ** = (1.5m)

LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

STRAIGHT SAW CUTS TO HEAVY-DUTY HANDHOLE IN PAVEMENT (TYP.)

DETAIL 1
 N.T.S.

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



THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSER TO THE INTERSECTION.

+ THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]

Δ THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

IF "FAR OUT" LOOPS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN LANE OR LEFT TURN LANE TAPER.

DETAIL 2
 N.T.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

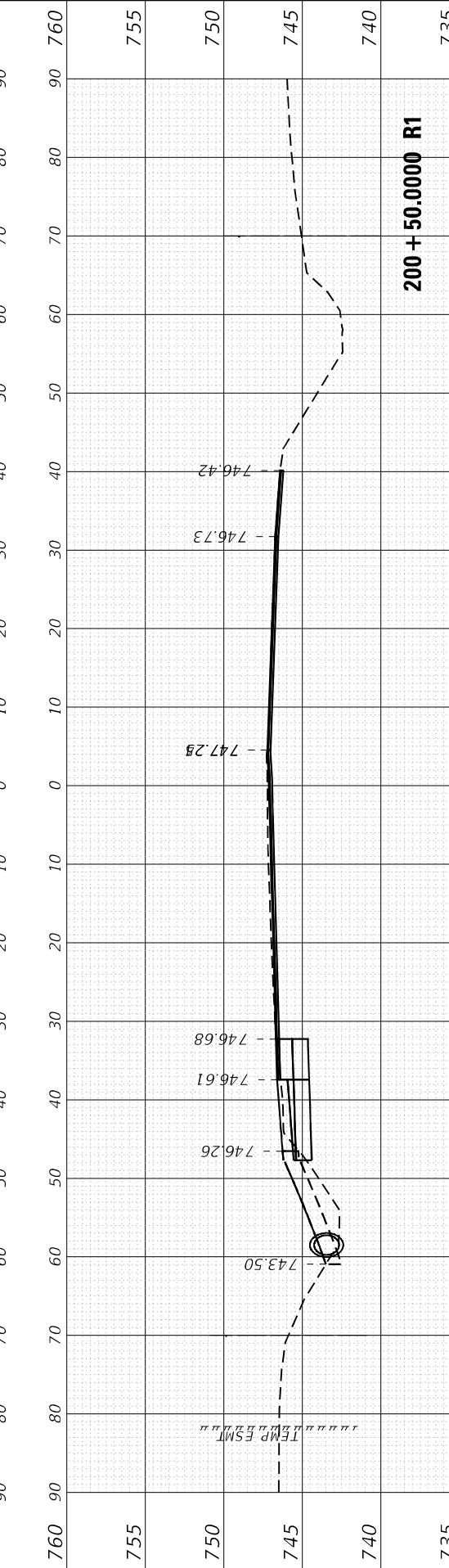
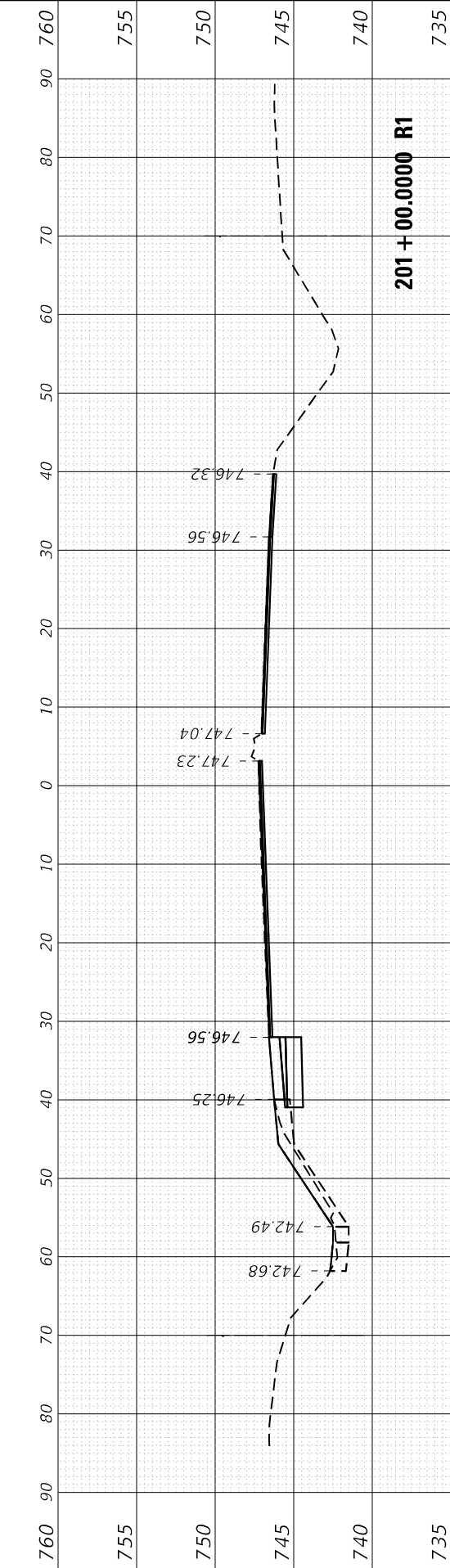
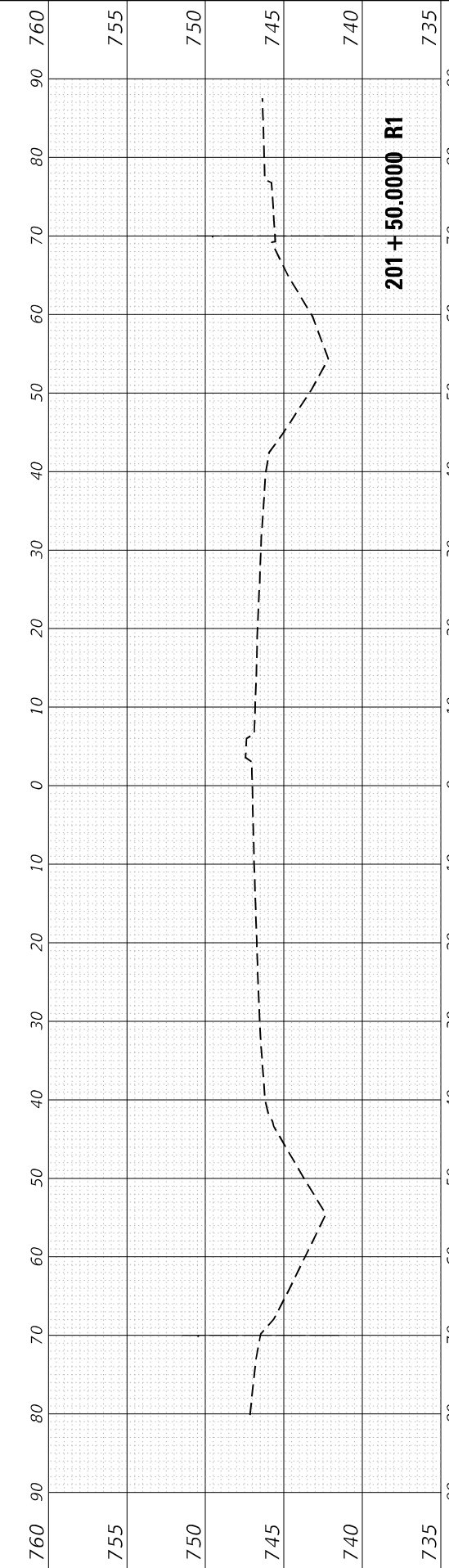
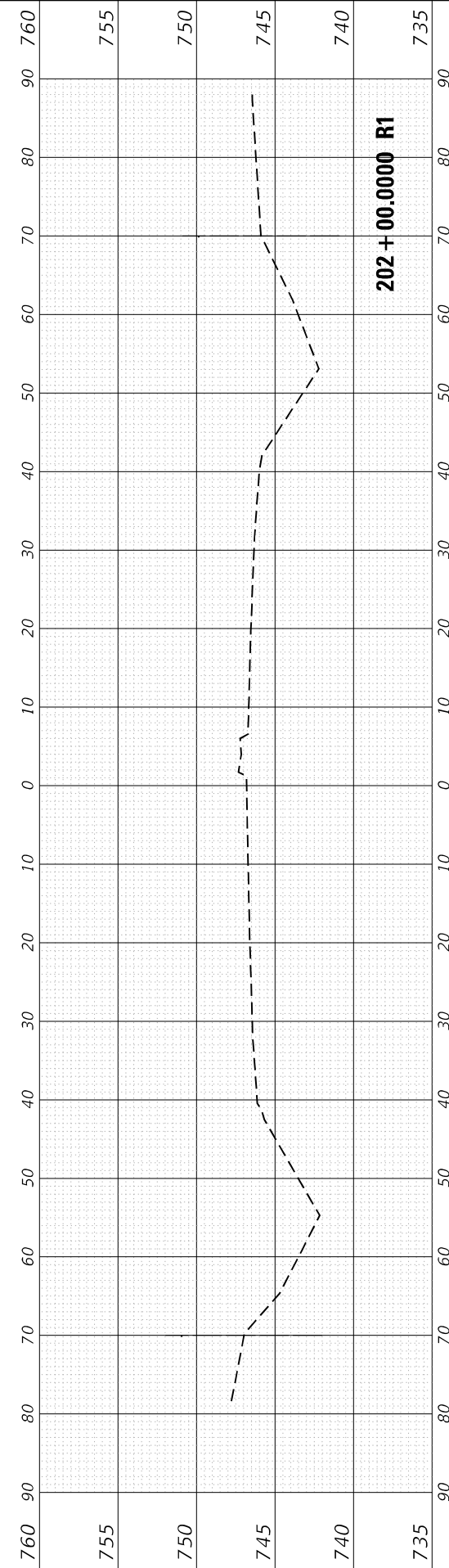
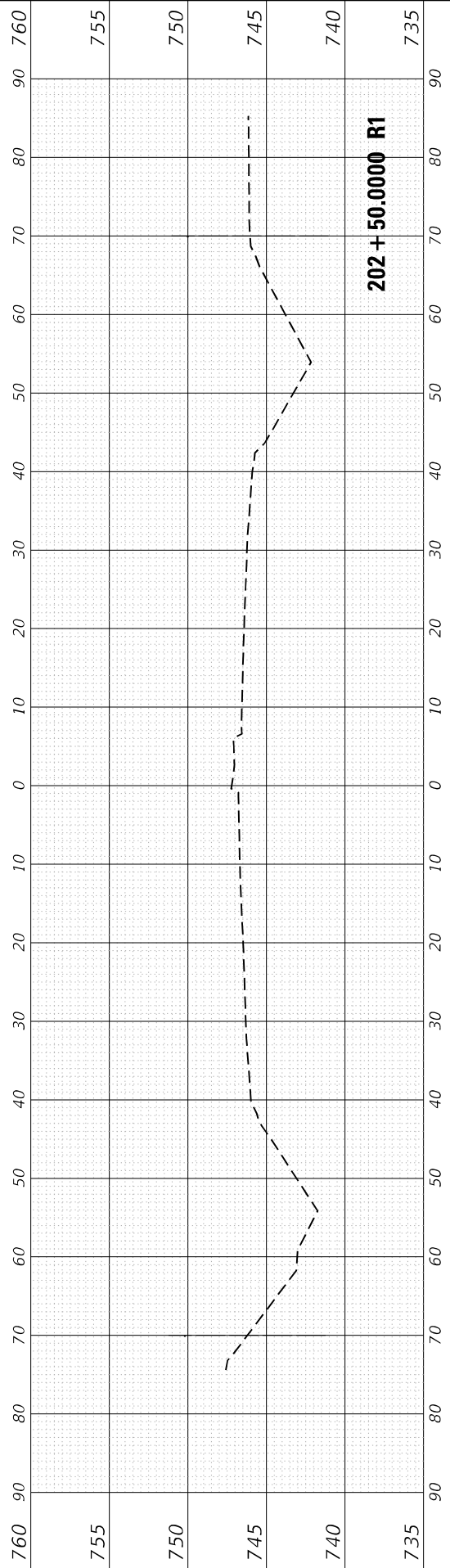
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| F.A. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|---------|--------|--------------|-----------|
| | | | 87 | 78 |
| TS-07 | | | CONTRACT NO. | |
| ILLINOIS FED. AID PROJECT | | | | |

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| FINAL SURVEY NO. | SURVEYED PLOTTED AREAS CHECKED | BY | DATE |
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|------------------------------|------------------|-----------|
| USER NAME = rrostkawski | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 20,0006 ' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - IL ROUTE 50 (CICERO AVENUE)
IL ROUTE 50 AT STEGER ROAD**

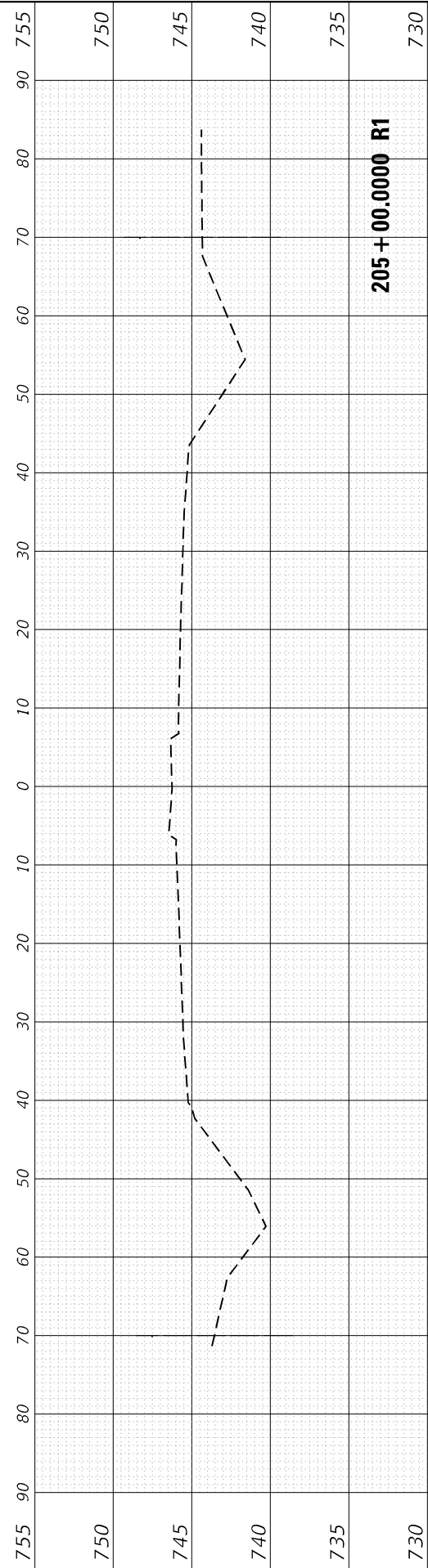
SCALE: SHEET OF SHEETS STA. 200+50.0000 R1 TO STA. 202+50.0000 R1

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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK/WILL | 87 | 82 |
| | | | CONTRACT NO. 628F87 | |

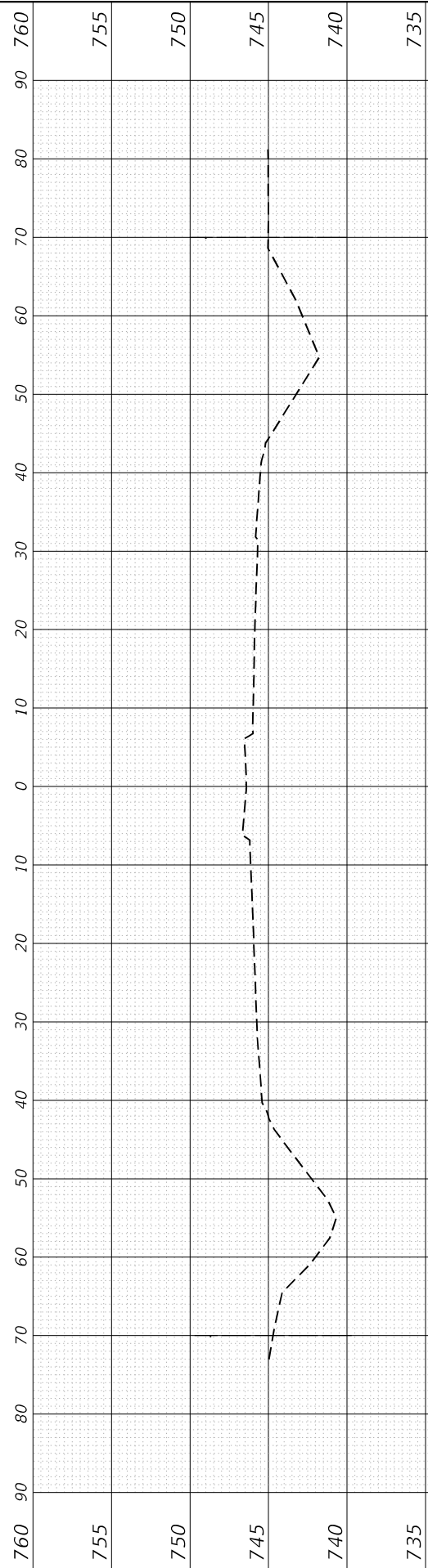
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| NOTE BOOK | PLOTTED | BY |
| AREAS CHECKED | TEMPLATE | |
| | AREAS CHECKED | |

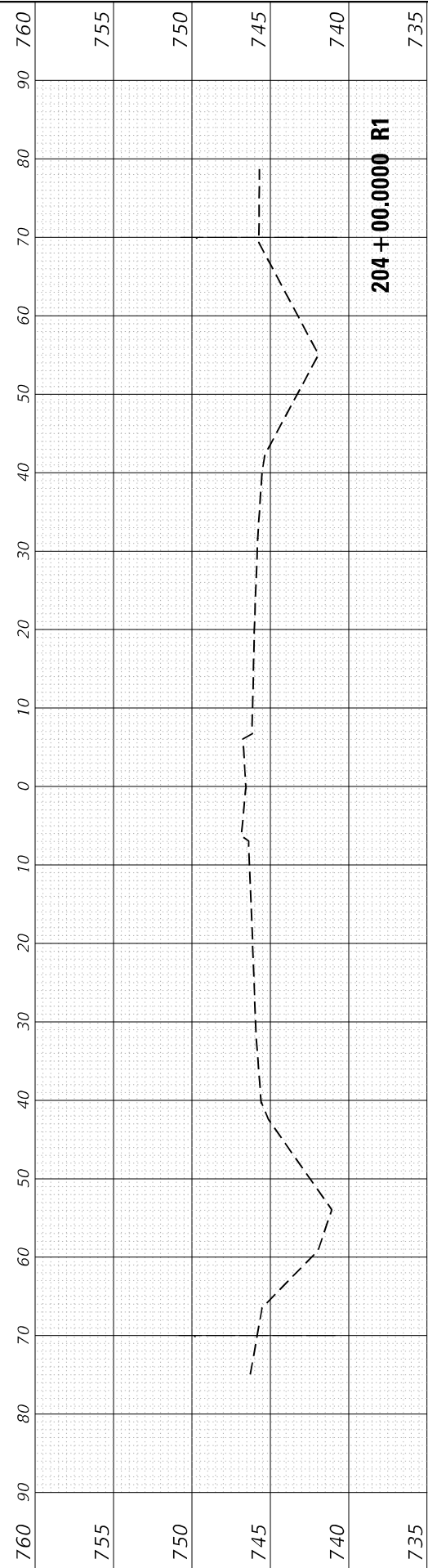
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| NOTE BOOK | PLOTTED | BY |
| AREAS CHECKED | TEMPLATE | |
| | AREAS CHECKED | |



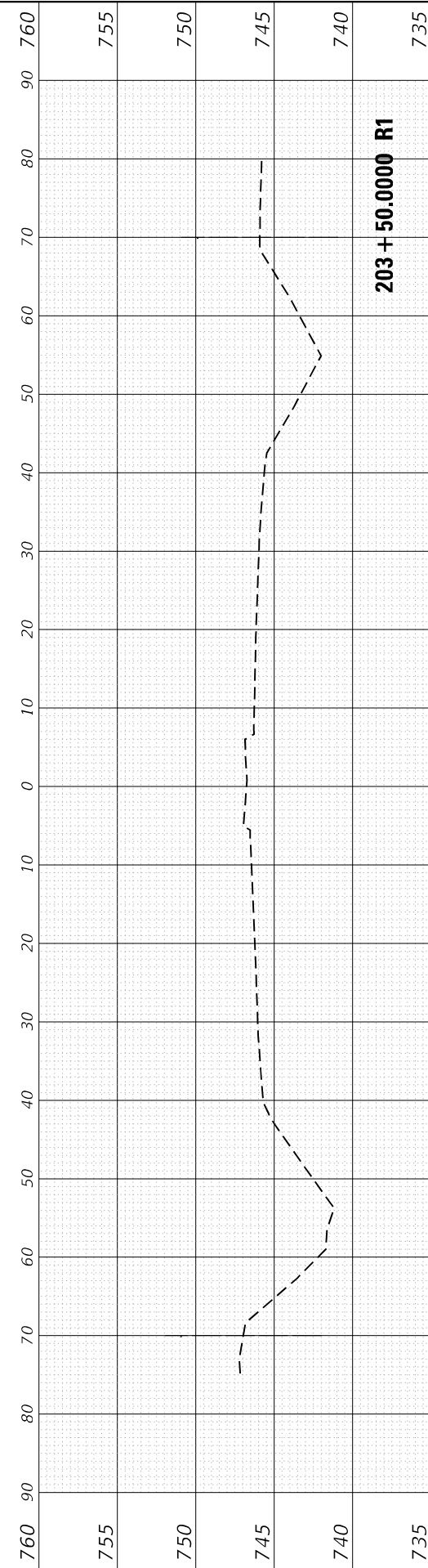
205 + 00.0000 R1



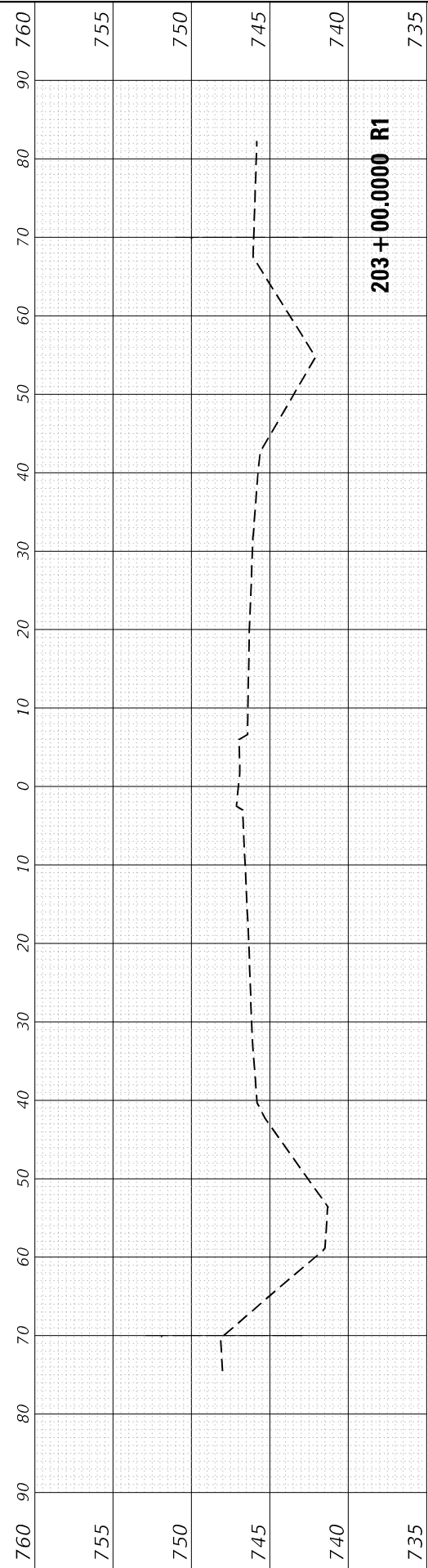
204 + 50.0000 R1



203 + 50.0000 R1



203 + 00.0000 R1



203 + 00.0000 R1

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| USER NAME = rostkowicki | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 20,0006 * / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - IL ROUTE 50 (CICERO AVENUE)
 IL ROUTE 50 AT STEGER ROAD**

SCALE: SHEET OF SHEETS STA. 203+00.0000 R1 TO STA. 205+00.0000 R1

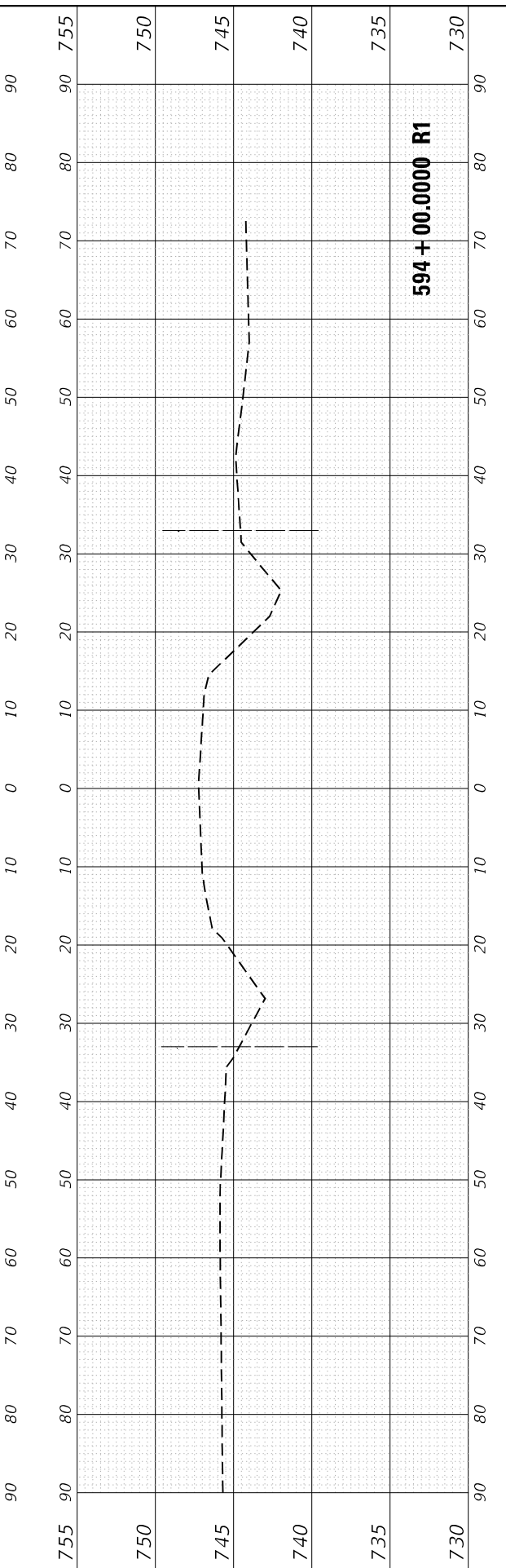
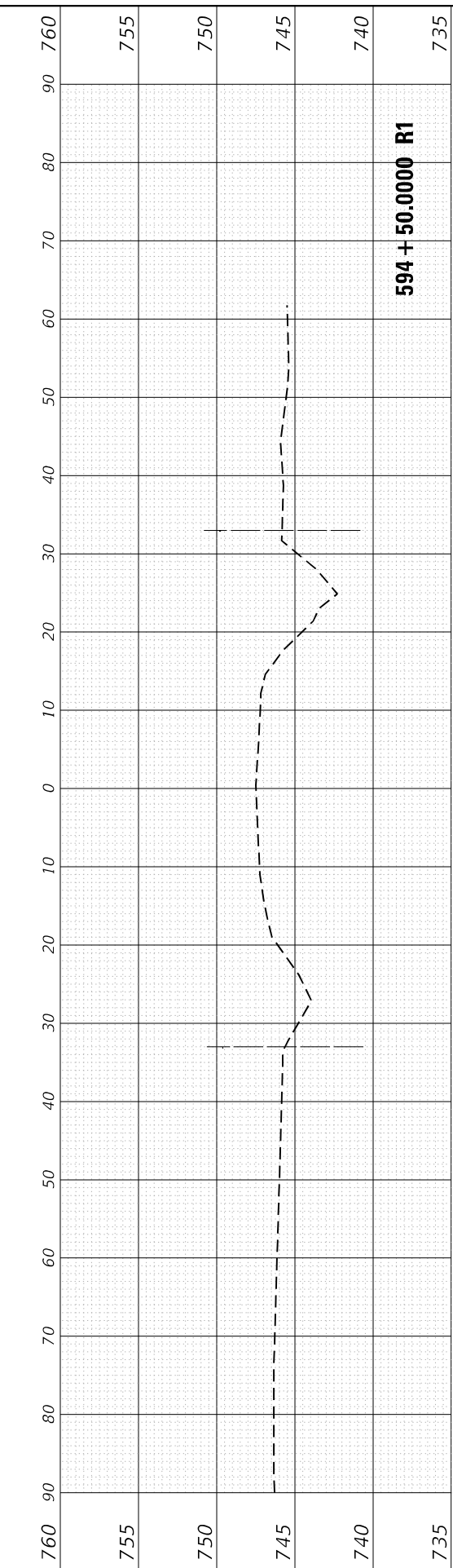
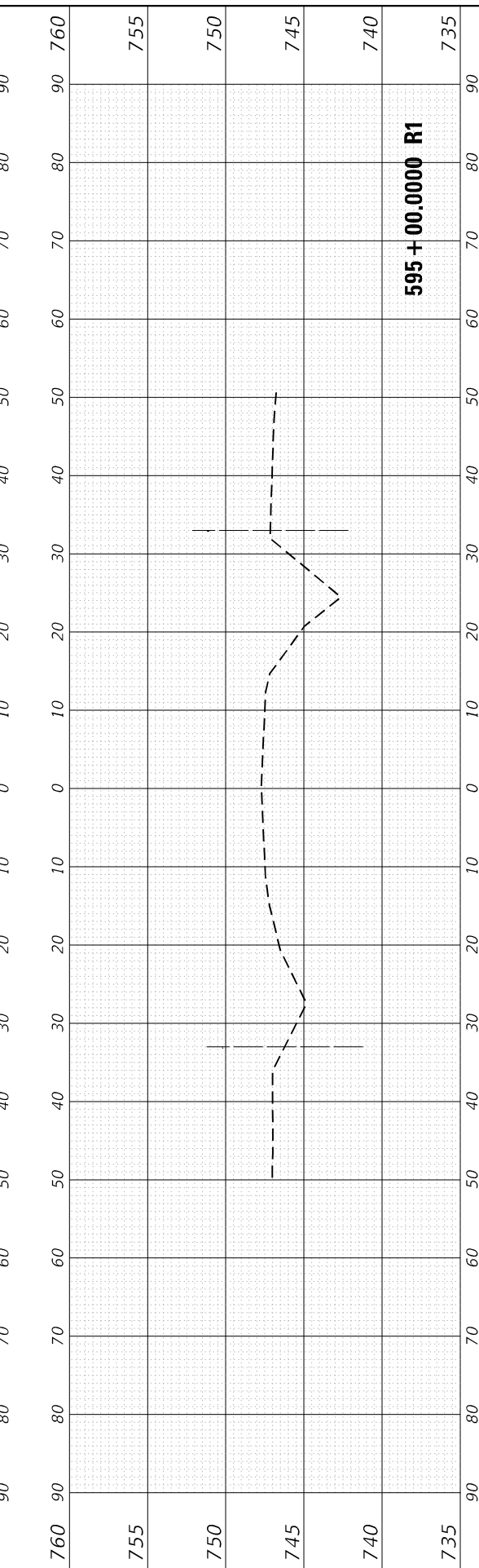
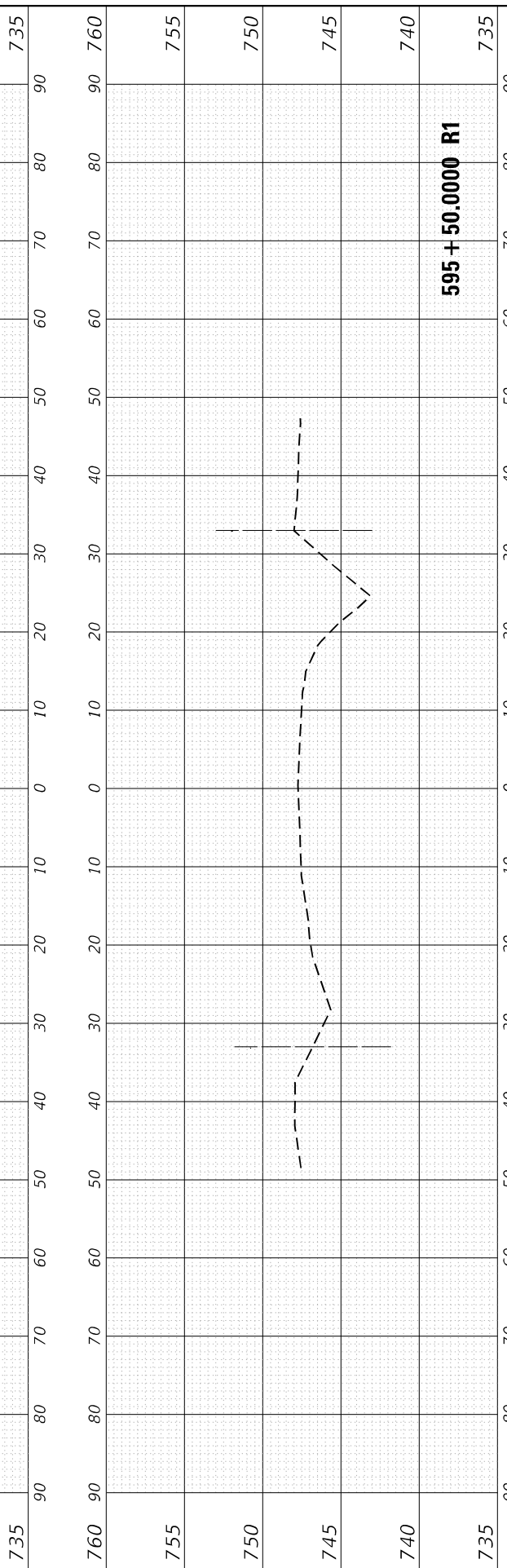
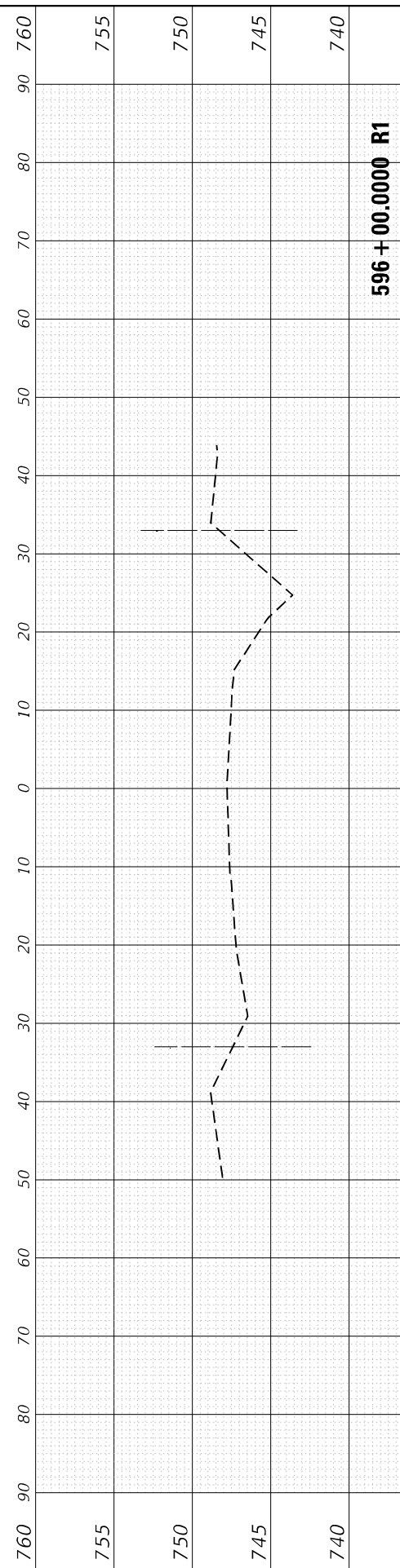
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK/WILL | 87 | 83 |
| | | | CONTRACT NO. 62F87 | |

COOK, WILL

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|------------------------------|------------------|-----------|
| USER NAME = rostkawski | DESIGNED - RR | REVISED - |
| | DRAWN - RR | REVISED - |
| PLOT SCALE = 20,0006 ' / in. | CHECKED - LP | REVISED - |
| PLOT DATE = 8/16/2021 | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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|--------|--|-------|----|--------|--|
| SCALE: | | SHEET | OF | SHEETS | STA. 594+00.0000 R1 TO STA. 596+00.0000 R1 |
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**CROSS SECTIONS - STEGER ROAD
IL ROUTE 50 AT STEGER ROAD**

| | | | | |
|-------------|------------|------------------|--------------------|-----------|
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 350 | 101W-N(17) | COOK/WILL | 87 | 84 |
| | | | CONTRACT NO. 62F87 | |
| ILLINOIS | | FED. AID PROJECT | | |

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| FINAL SURVEY NO. | SURVEYED PLOTTED AREAS CHECKED | BY | DATE |
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| NOTE BOOK | TEMPLATE | | |
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| ORIGINAL SURVEY NO. | SURVEYED PLOTTED AREAS CHECKED | BY | DATE |
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| | | |
|------------------------------|------------------|-----------|
| USER NAME = rostkowiskir | DESIGNED - RR | REVISED - |
| PLOT SCALE = 20,0006 * / in. | DRAWN - RR | REVISED - |
| PLOT DATE = 8/16/2021 | CHECKED - LP | REVISED - |
| | DATE - 8/13/2021 | REVISED - |

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**CROSS SECTIONS - STEGER ROAD
IL ROUTE 50 AT STEGER ROAD**

SCALE: SHEET OF SHEETS STA. 602+00.0000 R1 TO STA. 602+00.0000 R1

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|--------------------|--------------------|------------------|---------------------------|--------------|
| F.A.P. RTE. 350 | SECTION 101W-N(17) | COUNTY COOK/WILL | TOTAL SHEETS 87 | SHEET NO. 87 |
| CONTRACT NO. 62F87 | | | ILLINOIS FED. AID PROJECT | |

