

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|--------------|--------------------|--------------|-----------|
| 345 | 2024-1028-RS | KANE | 29 | 1 |
| ILLINOIS | | CONTRACT NO. 62X67 | | |

* 29 + 1 = 30 TOTAL SHEETS

D-91-058-25



FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE IMPROVEMENT IS LOCATED
IN THE VILLAGES OF HAMPSHIRE
& PINGREE GROVE

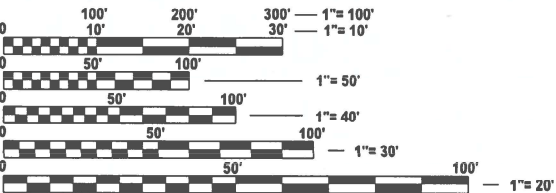
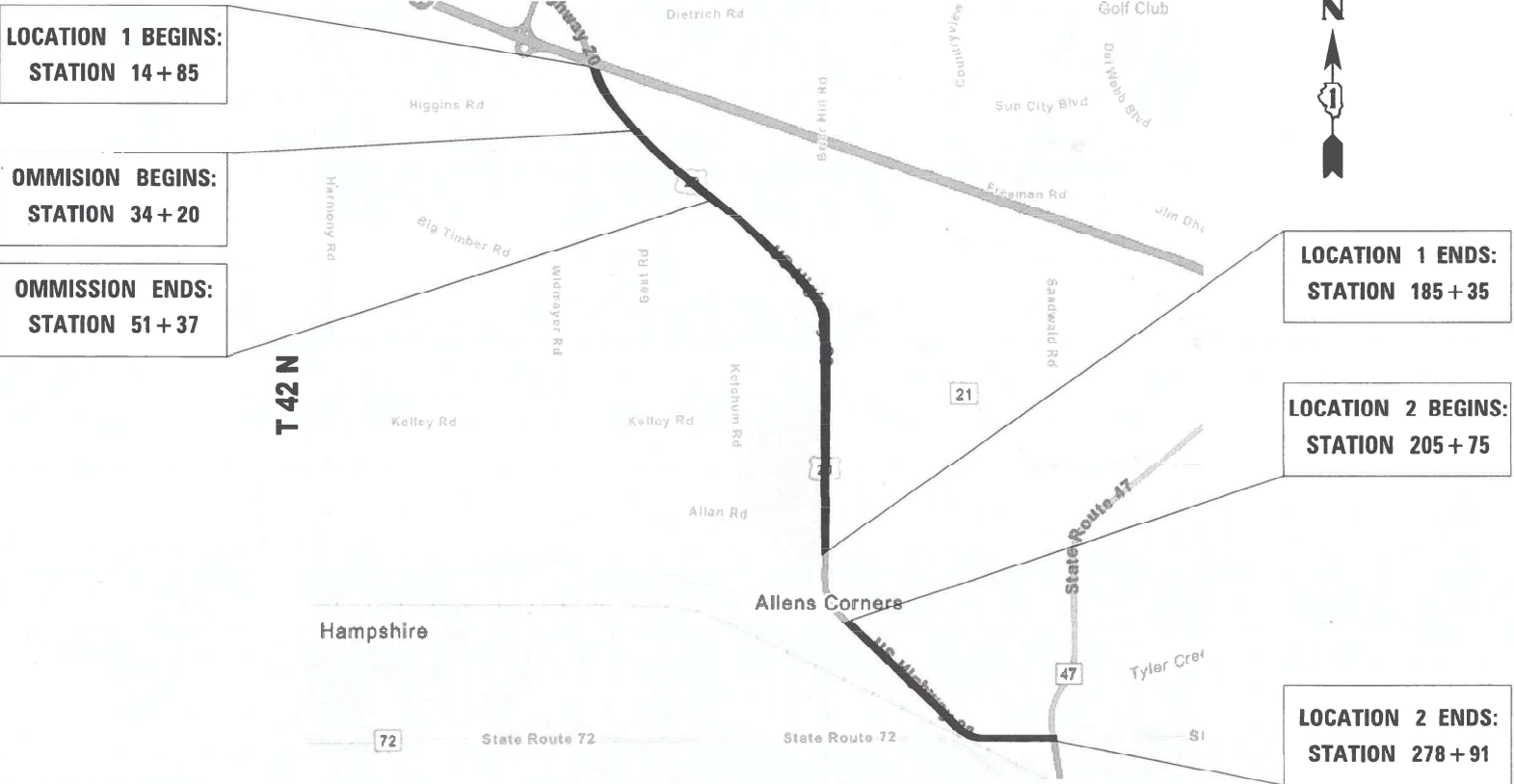
TRAFFIC DATA:
ADT=8,150 (2023)

POSTED SPEED LIMIT = 55 MPH

DESIGN DESIGNATION = OTHER PRINCIPAL ARTERIAL

LOCATION 1: FAP ROUTE 345: (US 20) U.S. GRANT MEMORIAL HIGHWAY
I-90 (JANE ADDAMS MEMORIAL TOLLWAY) TO NW OF ALLEN ROAD
STANDARD OVERLAY
LOCATION 2: FAP ROUTE 345: (US 20) U.S. GRANT MEMORIAL HIGHWAY
E OF ALLEN RD TO IL 47
SMART OVERLAY
SECTION: 2024-1028-RS

KANE COUNTY
C-91-078-25
R 6 & 7 E



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: DANIEL WILGREEN P.E. (847)-705-4240
PROJECT MANAGER: ALAIN J. MIDY P.E. (847)-221-3056

CONTRACT NO. 62X67

HAMPSHIRE & RUTLAND TOWNSHIP
LOCATION 1: GROSS LENGTH = 17,050 FEET (3.23 MILES)
OMMISSION LENGTH = 1,717 FEET (.33 MILES)
NET LENGTH = 15,333 FEET (2.90 MILES)
LOCATION 2: GROSS & NET LENGTH = 7,316 FEET (1.39 MILES)

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED March 14th 2025
2025 REGIONAL ENGINEER

May 9 2025
2025 ENGINEER OF DESIGN AND ENVIRONMENT

May 9 2025
2025 DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

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INDEX OF SHEETS

SHEET NO.

DESCRIPTION

| | |
|-------|---|
| 1 | COVER SHEET |
| 2 | INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES |
| 3-4 | SUMMARY OF QUANTITIES |
| 5-6 | EXISTING AND PROPOSED TYPICAL SECTIONS |
| 7-15 | ROADWAY AND PAVEMENT MARKING PLANS |
| 16-19 | DETECTOR LOOP PLANS |
| 20 | DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08) |
| 21 | PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22) |
| 22 | CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24) |
| 23 | BUTT JOINT AND HMA TAPER DETAILS (BD-32) |
| 23-A | TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10) |
| 24 | TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11) |
| 25 | DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13) |
| 26 | PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16) |
| 27 | ARTERIAL ROAD INFORMATION SIGN (TC-22) |
| 28 | DRIVEWAY ENTRANCE SIGNING (TC-26) |
| 29 | DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07) |

STANDARD NO.

STATE STANDARDS

DESCRIPTION

| | |
|-----------|--|
| 000001-08 | STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS |
| 442201-03 | CLASS C AND D PATCHES |
| 604001-05 | FRAME AND LIDS TYPE 1 |
| 606001-08 | CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER |
| 701006-05 | OFF-RD OPERATIONS, 2L, 2W MORE THAN 15' (4.5 M) TO 24" (600 M) FROM EDGE OF PAVEMENT |
| 701011-04 | OFF-RD OPERATIONS, 2L, 2W, DAY ONLY |
| 701201-05 | LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH |
| 701301-04 | LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS |
| 701306-04 | LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH |
| 701311-03 | LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY |
| 701501-06 | URBAN LANE CLOSURE 2L, 2W, UNDIVIDED |
| 701502-09 | URBAN LANE CLOSURE, 2L, 2W WITH BIDIRECTIONAL LEFT TURN LANE |
| 701701-10 | URBAN LANE CLOSURE, MULTILANE INTERSECTION |
| 701901-10 | TRAFFIC CONTOL DEVICES |
| 780001-05 | TYPICAL PAVEMENT MARKINGS |
| 886001-01 | DETECTOR LOOP INSTALLATIONS |
| 886006-01 | TYPICAL LAYOUTS FOR DETECTION LOOPS |

GENERAL NOTES

- 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.
- 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.
- ALL DAMAGE TO EXISITING PAVEMENT MARKERS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINESHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS SHOWN ON THE PLANS OR AS DIRECTED BY THE RESIDENT ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING CONSTRUCTION OF THIS PROJECT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF HAMPSHIRE AND PINGREE GROVE.

- WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES (40 mm) WHERE THE SPEED LIMIT IS 40 MPH OR LESS THAN LESS THAN 1 INCH (25 mm)WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH, 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).
- THE RESIDENT ENGINEER SHALL CONTACT EMAD ALHUSSEINI, AREA TRAFFIC FIELD ENGINEER, VIA EMAIL AT EMAD.ALHUSSEINI@ILLINOIS.GOV. A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- ALL MILLED SURFACES SHALL BE A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT [OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS)], WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 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.
- DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- 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.
- THE CONTRACTOR SHALL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF PLATED STRUCTURES BY STATION AND OFFSET LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT.
- THE CONTRACTOR SHALL BE REQUIRED TO KEEP A RECORD OF THE LOCATIONS OF THE BURIED STRUCTURES ACCORDING TO THE STATION AND DISTANCE LEFT OR RIGHT OF THE CENTERLINE OF PAVEMENT. UPON COMPLETION OF THE WORK, THE CONTRACTOR SHALL DELIVER THE RECORD TO THE ENGINEER.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE NOTIFICATION OF ALL EMERGENCY SERVICES, SCHOOL DISTRICTS, I.D.O.T.'S COMMUNICATIONS CENTER, SPRINGFIELD TRUCK PERMIT SECTION AND OTHER AGENCIES AFFECTED BY THE CLOSURE. THE CONTRACTOR SHALL ALSO BE RESPONSIBLE FOR POSTING SIGNS THAT WILL INDICATE THE DATES THE CLOSURE WILL BE IN PLACE.
- OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS.
- THE AGGREGATE GRADATION FOR THE AGGREGATE SUBGRADE IMPROVEMENT 12" LOWER LIFT SHALL BE CS 1 OR RR 1"
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.
- CONTACT THE ROADSIDE DEVELOPMENT UNIT A MINIMUM OF 2 WEEKS IN ADVANCE OF TREE CARE FOR LAYOUT OF EXISTING PARKWAY TREES WITHIN THE ROW.

| | | | | | | | | | | | |
|--|----------------------------|------------|-----------|---|--|---------|----------------|--------------|--------|-----------------|-----------------------------|
| | USER NAME = mohammad.hamwi | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES US-20 (U.S. GRANT MEMORIAL HIGHWAY) FROM I-90 TO IL 47 | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | DRAWN - | REVISED - | | | | 345 | 2024-1028-RS | KANE | 29 | 2 |
| | | CHECKED - | REVISED - | | CONTRACT NO. 62X67 | | | | | | |
| | PLOT DATE = 3/13/2025 | DATE - | REVISED - | | SCALE: | SHEET 1 | OF 1 | SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT |

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| SUMMARY OF QUANTITIES | | | | | TYPE CODE | | | | | |
|----------------------------|---|------------|----------------|---|------------------------------|------------------------------|---------------------------|---------------------------|--|--|
| | | | | | US-20 KANE | US-20 KANE | US-20 KANE | US-20 KANE | | |
| | | | | | ROADWAY | ROADWAY | ROADWAY | ROADWAY | | |
| | | | | | LOCATION 1: STANDARD OVERLAY | LOCATION 1: STANDARD OVERLAY | LOCATION 2: SMART OVERLAY | LOCATION 2: SMART OVERLAY | | |
| 100% STATE | | | | | 100% STATE | 100% STATE | 100% STATE | | | |
| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | 0005 | 0005 | 0005 | 0005 | | | |
| 40600290 | BITUMINOUS MATERIALS (TACK COAT) | POUND | 51443 | 38955 | | 12488 | | | | |
| 40600370 | LONGITUDINAL JOINT SEALANT | FOOT | 29243 | 21083 | | 8160 | | | | |
| 40600400 | MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS | TON | 129 | 87 | | 42 | | | | |
| 40600982 | HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT | SQ YD | 167 | 112 | | 55 | | | | |
| 40601005 | HOT-MIX ASPHALT REPLACEMENT OVER PATCHES | TON | 863 | 497 | | 366 | | | | |
| 40603200 | POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 | TON | 2420 | 2420 | | | | | | |
| 40605026 | POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80 | TON | 8365 | 5645 | | 2720 | | | | |
| 42001300 | PROTECTIVE COAT | SQ YD | 323 | 323 | | | | | | |
| 44000156 | HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4" | SQ YD | 27749 | | | 27749 | | | | |
| 44000159 | HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" | SQ YD | 57599 | 57599 | | | | | | |
| 44002236 | HOT-MIX ASPHALT REMOVAL OVER PATCHES, 9" | SQ YD | 727 | | | 727 | | | | |
| 44002216 | HOT-MIX ASPHALT REMOVAL OVER PATCHES, 4" | SQ YD | 2218 | 2218 | | | | | | |
| 44201827 | CLASS D PATCHES, TYPE II, 15 INCH | SQ YD | 477 | | | 477 | | | | |
| 44201831 | CLASS D PATCHES, TYPE III, 15 INCH | SQ YD | 50 | | | 50 | | | | |
| 44201833 | CLASS D PATCHES, TYPE IV, 15 INCH | SQ YD | 200 | | | 200 | | | | |
| 44201789 | CLASS D PATCHES, TYPE II, 12 INCH | SQ YD | 1428 | 1428 | | | | | | |
| 44201794 | CLASS D PATCHES, TYPE III, 12 INCH | SQ YD | 200 | 200 | | | | | | |
| 44201796 | CLASS D PATCHES, TYPE IV, 12 INCH | SQ YD | 590 | 590 | | | | | | |
| 48102100 | AGGREGATE WEDGE SHOULDER, TYPE B | TON | 634 | 634 | | | | | | |
| 60300105 | FRAMES AND GRATES TO BE ADJUSTED | EACH | 3 | 3 | | | | | | |
| 64200108 | SHOULDER RUMBLE STRIPS, 8 INCH | FOOT | 39279 | 26825 | | 12454 | | | | |
| * = SPECIALTY ITEM | | | | | | | | | | |
| USER NAME = mohammad.hamwi | | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | | | | | | |
| | | DRAWN - | REVISED - | | | | | | | |
| | | CHECKED - | REVISED - | | | | | | | |
| PLOT DATE = 3/20/2025 | | DATE - | REVISED - | | | | | | | |

| SUMMARY OF QUANTITIES | | | | | TYPE CODE | | | | | | |
|----------------------------|--|---|----------------|---------|------------------------------|------------------------------|---------------------------|---------------------------|-----------------|--------------|--|
| | | | | | US-20 KANE | US-20 KANE | US-20 KANE | US-20 KANE | | | |
| | | | | | ROADWAY | ROADWAY | ROADWAY | ROADWAY | | | |
| | | | | | LOCATION 1: STANDARD OVERLAY | LOCATION 1: STANDARD OVERLAY | LOCATION 2: SMART OVERLAY | LOCATION 2: SMART OVERLAY | | | |
| | | | | | 100% STATE | 100% STATE | 100% STATE | 100% STATE | | | |
| CODE NO. | ITEM | UNIT | TOTAL QUANTITY | 0005 | 0005 | 0005 | 0005 | | | | |
| 67100100 | MOBILIZATION | L SUM | 1 | 0.5 | | 0.5 | | | | | |
| 70100450 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701201 | L SUM | 1 | 0.5 | | 0.5 | | | | | |
| 70102620 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701501 | L SUM | 1 | 0.5 | | 0.5 | | | | | |
| 70100460 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701306 | L SUM | 1 | 0.5 | | 0.5 | | | | | |
| 70102622 | TRAFFIC CONTROL AND PROTECTION, STANDARD 701502 | L SUM | 1 | 0.5 | | 0.5 | | | | | |
| 70102635 | TRAFFIC CONTROLAND PROTECTION, STANDARD 701701 | L SUM | 1 | 0.5 | | 0.5 | | | | | |
| 70300100 | SHORT TERM PAVEMENT MARKING | FOOT | 39,620 | 29,165 | | 10,455 | | | | | |
| 70300150 | SHORT TERM PAVEMENT MARKING REMOVAL | SQ FT | 3105 | 1945 | | 1160 | | | | | |
| 70300211 | TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT | SQ FT | 760 | 468 | | 292 | | | | | |
| 70300221 | TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT | FOOT | 430,016 | 381,312 | | 48,704 | | | | | |
| 70300241 | TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT | FOOT | 3,770 | 2,082 | | 1,688 | | | | | |
| 70300261 | TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT | FOOT | 1,062 | 792 | | 270 | | | | | |
| 70300281 | TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT | FOOT | 1,026 | 1,026 | | | | | | | |
| * 72501000 | TERMINAL MARKER - DIRECT APPLIED | EACH | 2 | 2 | | | | | | | |
| * 78000100 | THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS | SQ FT | 224 | 78 | | 146 | | | | | |
| * 78000200 | THERMOPLASTIC PAVEMENT MARKING - LINE 4" | FOOT | 87904 | 63552 | | 24352 | | | | | |
| * 78000400 | THERMOPLASTIC PAVEMENT MARKING - LINE 6" | FOOT | 1191 | 347 | | 844 | | | | | |
| * 78000600 | THERMOPLASTIC PAVEMENT MARKING - LINE 12" | FOOT | 267 | 132 | | 135 | | | | | |
| * 78000650 | THERMOPLASTIC PAVEMENT MARKING - LINE 24" | FOOT | 171 | 171 | | | | | | | |
| * 78100100 | RAISED REFLECTIVE PAVEMENT MARKER | EACH | 637 | 430 | | 207 | | | | | |
| 78300200 | RAISED REFLECTIVE PAVEMENT MARKER REMOVAL | EACH | 637 | 430 | | 207 | | | | | |
| 78300202 | PAVEMENT MARKER REMOVAL - WATER BLASTING | SOFT | 5,460 | 3,200 | | 2,260 | | | | | |
| * 85000200 | MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 | | | 1 | | | | | |
| * = SPECIALTY ITEM | | | | | | | | | | | |
| ILLINOIS TRANSPORTATION | | SUMMARY OF QUANTITIES US-20 (U.S. GRANT MEMORIAL HIGHWAY) FROM I-90 TO IL-47 | | | F.A.P RTE. | SECTION | | COUNTY | TOTAL SHEETS | SHEET NO. | |
| | | | | | 345 | 2024-1028-RS | | KANE | 29 | 3 | |
| | | SCALE: | | | SHEET 1 | OF 2 | SHEETS | STA. | TO STA. | | |
| | | | | | CONTRACT NO. 62X67 | | | | | | |
| | | | | | ILLINOIS FED. AID PROJECT | | | | | | |

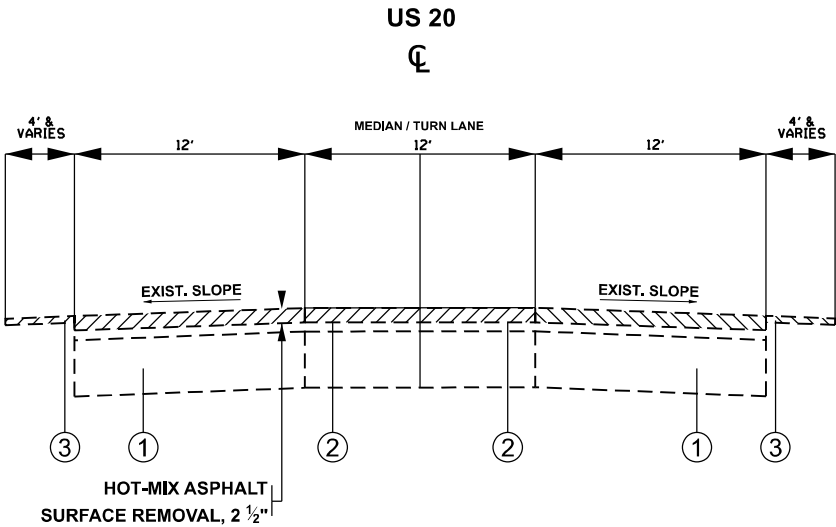
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LEGEND - EXISTING

- ① PORTLAND CEMENT CONCRETE PAVEMENT ±10"
- ② HOT MIX ASPHALT PAVEMENT ±4"
- ③ EXISTING SHOULDER RUMBLE STRIPS, 8"

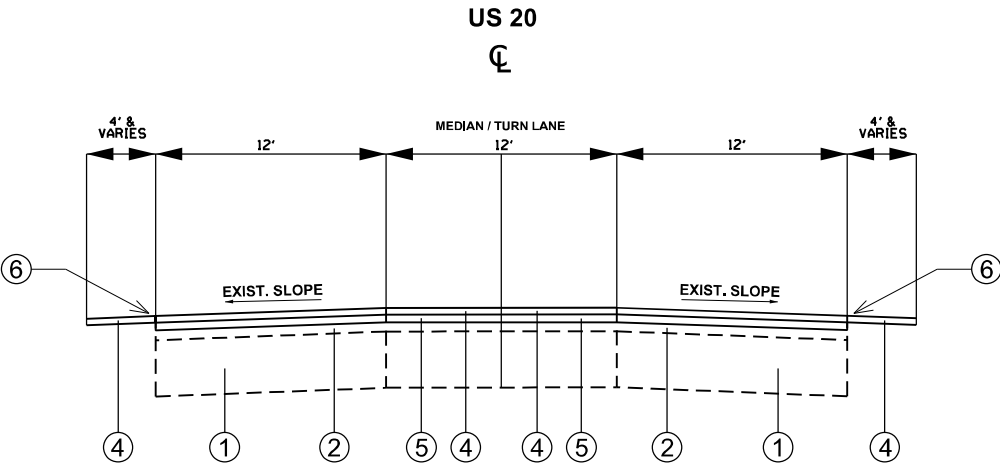
LEGEND - PROPOSED

- ④ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, MIX "F", N80, 1 3/4"
- ⑤ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, 3/4"
- ⑥ PROPOSED SHOULDER RUMBLE STRIPS, 8"



EXISTING TYPICAL SECTION

STATION:
14+85 TO 185+35



PROPOSED TYPICAL SECTION

STATION:
14+85 TO 185+35

| LOCATION | HOT-MIX ASPHALT MIXTURE REQUIREMENTS | | QUALITY MANAGEMENT PROGRAM (QMP) |
|----------|---|---------------------|----------------------------------|
| | MIXTURE TYPE | AIR VOIDS @ Ndesign | |
| | PAVEMENT RESURFACING | | |
| US-20 | POLYMERIZED HMA SURFACE COURSE, STONE MIX ASPHALT, 9.5 MIX "F", N80 1 3⁄4" | 3.5% @ 80 GYR | QCP |
| US-20 | POLYMERIZED HMA BINDER COURSE, IL-4.75, N50, 3⁄4" | 3.5% @ 50 GYR | QCP |
| | PATCHING | | |
| US-20 | CLASS D PATCHES (HMA BINDER IL-19.0 MM) | 4% @ 70 GYR | QC/QA |
| US-20 | HMA REPLACEMENT OVER PATCHES (HMA BINDER IL-19.0) | 4% @ 70 GYR | QC/QA |
| | | | |
| | QMP DESIGNATIONS: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP); PAY FOR PERFORMANCE (PFP) | | |

NOTES:

- THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE COURSE MIXTURES IS 112 LBS/SQYD/IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.
- THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON THE POLYMERIZED HMA BC IL-4.75 N50
- THE CONTRACTOR SHALL PATCH THEN MILL.

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| | | |
|----------------------------|------------|-----------|
| USER NAME = mohammad.hamwi | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 3/15/2025 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION (LOCATION 1)
US-20 (U.S. GRANT MEMORIAL HIGHWAY) FROM I-90 TO IL-47

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

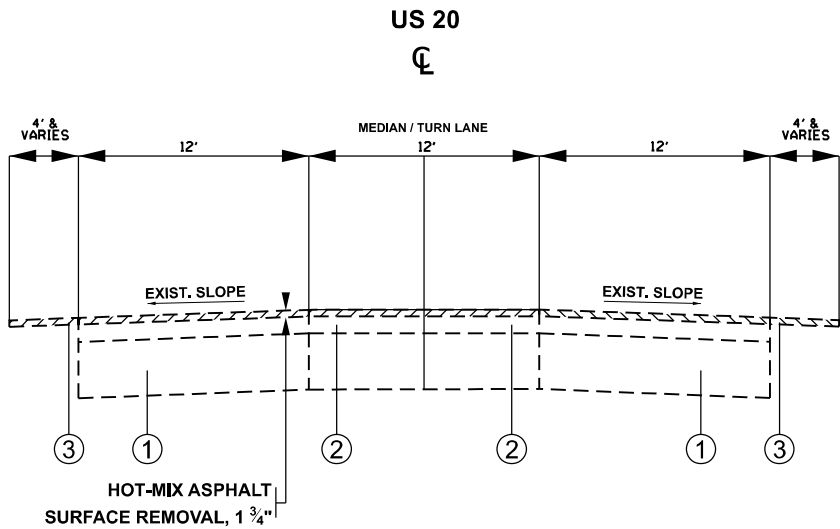
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|--------|--------------|-----------|
| 345 | 2024-1028-RS | KANE | 29 | 5 |
| CONTRACT NO. 62X67 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

LEGEND - EXISTING

- ① PORTLAND CEMENT CONCRETE PAVEMENT ±10"
- ② HOT MIX ASPHALT PAVEMENT ±9"
- ③ EXISTING SHOULDER RUMBLE STRIPS, 8"

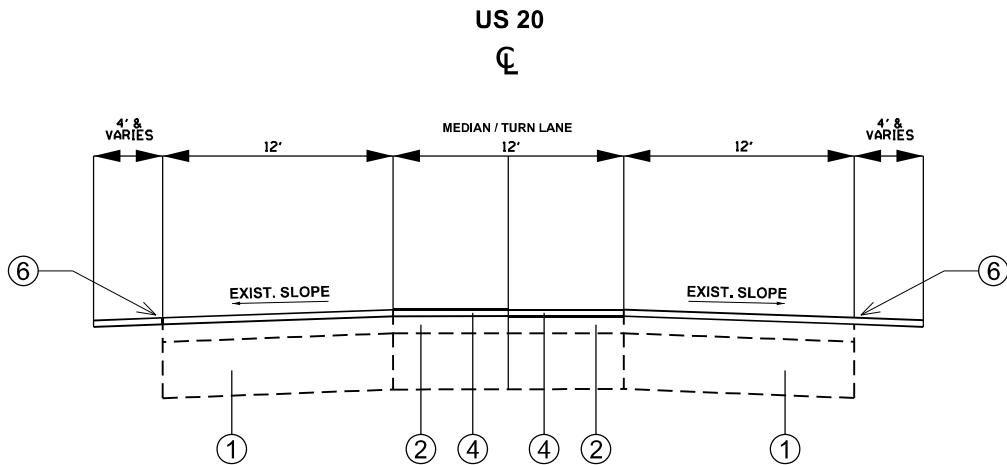
LEGEND - PROPOSED

- ④ POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, SMA, 9.5, MIX "F", N80, 1 ¾"
- ⑤ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50, ¾"
- ⑥ PROPOSED SHOULDER RUMBLE STRIPS, 8"



EXISTING TYPICAL SECTION

STATION:
205+75 TO 278+91



PROPOSED TYPICAL SECTION

STATION:
205+75 TO 278+91

NOTES:

- 1. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON THE MILLED SURFACE

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| | | | | | | | | | | | |
|--------|----------------------------|------------|-----------|---|--|---------|---------------------------|--------------|--------|-----------------|--------------|
| | USER NAME = mohammad.hamwi | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | TYPICAL SECTION (LOCATION 2) US-20 (U.S. GRANT MEMORIAL HIGHWAY) FROM I-90 TO IL-47 | | F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | DRAWN - | REVISED - | | | | 345 | 2024-1028-RS | KANE | 29 | 6 |
| | | CHECKED - | REVISED - | | | | CONTRACT NO. 62X67 | | | | |
| | PLOT DATE = 3/19/2025 | DATE - | REVISED - | | | | ILLINOIS FED. AID PROJECT | | | | |
| SCALE: | | SHEET 2 | OF 2 | SHEETS | STA. | TO STA. | | | | | |



US 20 (U.S. GRANT MEMORIAL HIGHWAY)

LOCATION 1 BEGINS:
STANDARD OVERLAY
STATION 14+85

PROP. POLYMERIZED HMA SURFACE COURSE, SMA, IL-9.5, MIX "F", N80, 1 3/4"
PROP. POLYMERIZED HMA POLY BINDER COURSE, IL-4.75, N50, 3/4"
PROP. HMA REMOVAL 2 1/2"

MATCHLINE STA. 25+00.00

PAVEMENT MARKING LEGEND

- 1 PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
4" SOLID EDGE LINE YELLOW (TYP.)

2 PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
4" SKIP DASH, 10' DASH-30' YELLOW (TYP.)

3 PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
4" SOLID EDGE LINE WHITE (TYP.)

4 PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)
- 5 PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
6" SKIP DASH, WHITE TURN LANE @ 6' SKIP & 2' DASH (TYP.)

6 PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
6" SOLID, WHITE TURN LANE (TYP.)

7 PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
8" GORE MARKING AND CHANNELIZING LINES WHITE (TYP.)

8 PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
12" DIAGONAL 45° @ 10' OR LESS LINE WHITE (TYP.)

9 PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
12" DIAGONAL 45° @ 150' C-C (MINIMUM 5) YELLOW (TYP.)
- 10 PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
12" DIAGONAL 45° @ 150' C-C (MINIMUM 5) WHITE (TYP.)

11 PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
12" LINE WHITE (TYP.)

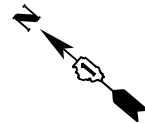
12 PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
24" SOLID STOP LINES, WHITE (TYP.)

13 PROP. THERMOPLASTIC PAVEMENT MARKING,
LETTERS AND SYMBOLS WHITE (TYP.)

14 PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
4" SOLID CENTERLINE YELLOW (TYP.)

PROPOSED ROADWAY WORK

- A PROP. SHOULDER RUMBLE STRIP, 8"



US 20 (U.S. GRANT MEMORIAL HIGHWAY)

PROP. POLYMERIZED HMA SURFACE COURSE, SMA, IL-9.5, MIX "F", N80, 1 3/4"
PROP. POLYMERIZED HMA POLY BINDER COURSE, IL-4.75, N50, 3/4"
PROP. HMA REMOVAL 2 1/2"

OMMISSION FROM 34+20 TO 51+37

MATCHLINE STA. 40+00.00

MATCHLINE STA. 25+00.00

HIGGINS RD

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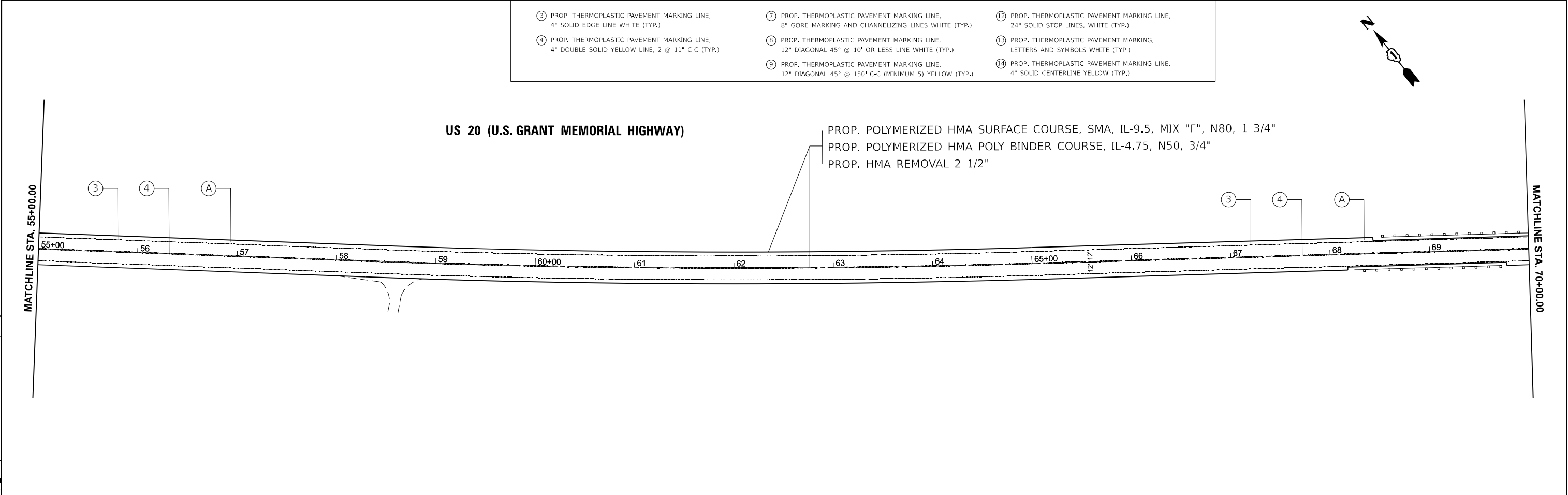
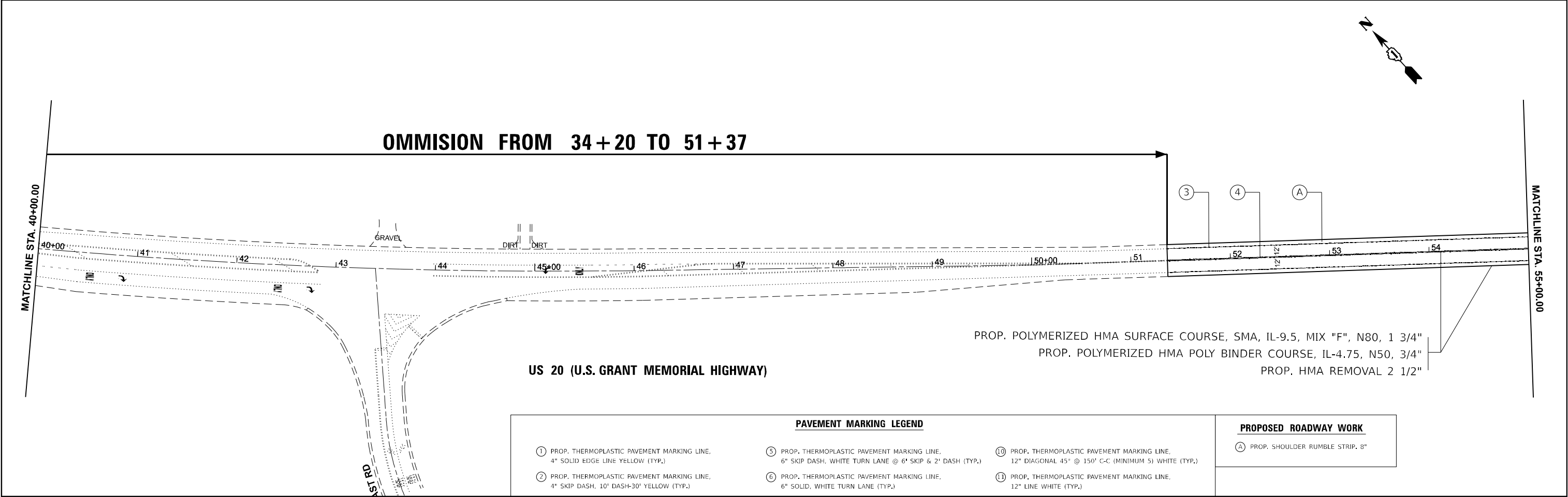
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|----------------------------|------------|-----------|
| USER NAME = mohammad.hamwi | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 3/19/2025 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
US-20 (U.S. GRANT MEMORIAL HIGHWAY) FROM I-90 TO IL 47

SCALE: 1"=50' SHEET 1 OF 9 SHEETS STA. 10+00.00 TO STA. 40+00.00

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|--------|-----------------|--------------|
| 345 | 2024-1028-RS | KANE | 29 | 7 |
| CONTRACT NO. 62X67 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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| | | | | | |
|-----------|------------------|----------|---|---------|---|
| USER NAME | = mohammad.hamwi | DESIGNED | - | REVISED | - |
| | | DRAWN | - | REVISED | - |
| | | CHECKED | - | REVISED | - |
| PLOT DATE | = 3/20/2025 | DATE | - | REVISED | - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

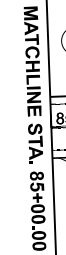
ROADWAY PLAN
US-20 (U.S. GRANT MEMORIAL HIGHWAY) FROM I-90 TO IL-47

SCALE: 1"=50' SHEET 2 OF 9 SHEETS STA. 40+00.00 TO STA. 70+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|--------|--------------|-----------|
| 345 | 2024-1028-RS | KANE | 29 | 8 |
| CONTRACT NO. 62X67 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



MATCHLINE STA. 85+00.00



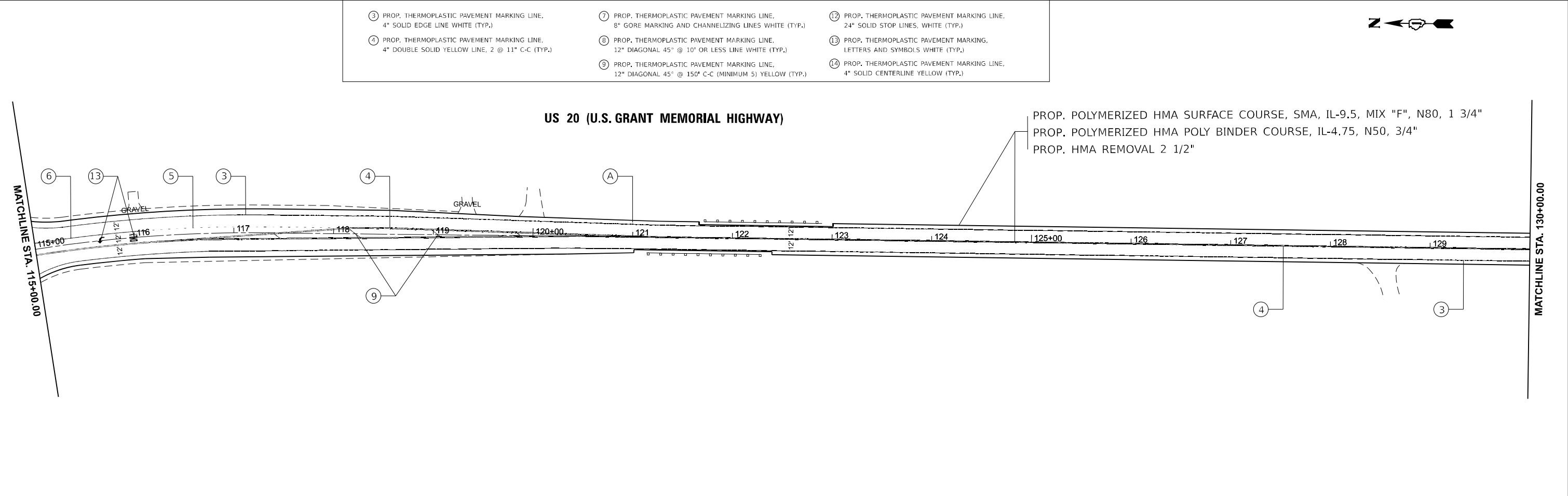
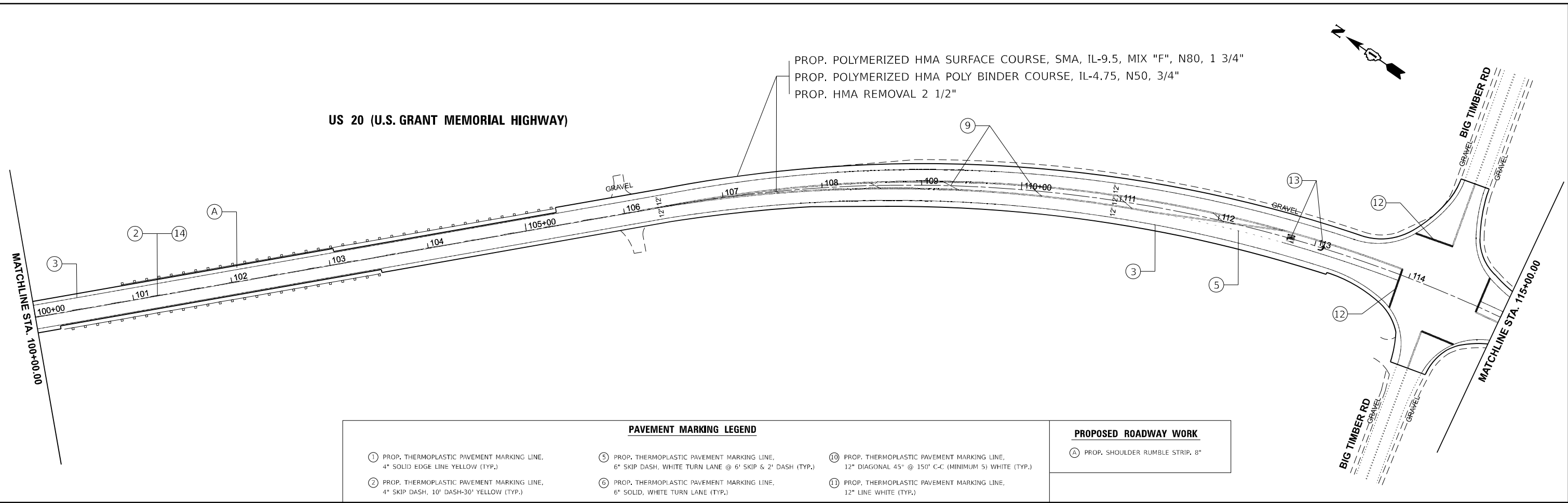
MATCHLINE STA. 100+00.00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

| | | | | | |
|---------------|---------|------|--------|---------------|-------------------|
| SCALE: 1"=50' | SHEET 3 | OF 9 | SHEETS | STA. 70+00.00 | TO STA. 100+00.00 |
|---------------|---------|------|--------|---------------|-------------------|

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| ILLINOIS | FED. AID PROJECT |
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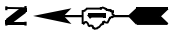
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| | | | |
|--|----------------------------|------------|-----------|
| | USER NAME = mohammad.hamwi | DESIGNED - | REVISED - |
| | | DRAWN - | REVISED - |
| | | CHECKED - | REVISED - |
| | PLOT DATE = 4/26/2025 | DATE - | REVISED - |

| | |
|------------------------------|--|
| STATE OF ILLINOIS | |
| DEPARTMENT OF TRANSPORTATION | |

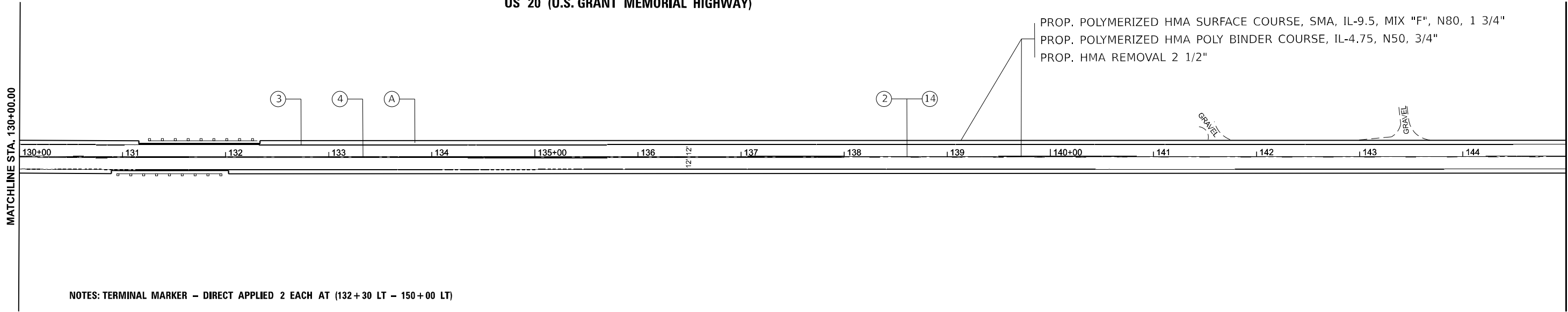
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|--|---------|-------------|----------------------------------|
| ROADWAY PLAN | | | |
| US-20 (U.S. GRANT MEMORIAL HIGHWAY) FROM I-90 TO IL-47 | | | |
| SCALE: 1"=50' | SHEET 4 | OF 9 SHEETS | STA. 100+00.00 TO STA. 130+00.00 |

| | | | | |
|---------------------------|--------------|--------|--------------|-----------|
| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| 345 | 2024-1028-RS | KANE | 29 | 10 |
| CONTRACT NO. 62X67 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



US 20 (U.S. GRANT MEMORIAL HIGHWAY)

PROP. POLYMERIZED HMA SURFACE COURSE, SMA, IL-9.5, MIX "F", N80, 1 3/4"
PROP. POLYMERIZED HMA POLY BINDER COURSE, IL-4.75, N50, 3/4"
PROP. HMA REMOVAL 2 1/2"



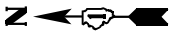
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PAVEMENT MARKING LEGEND

PROPOSED ROADWAY WORK

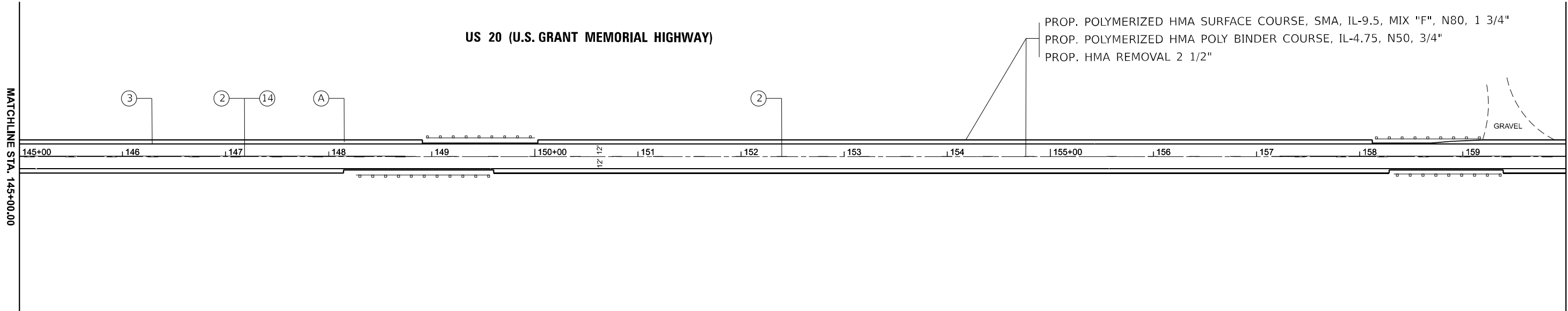
- | | | |
|---|--|--|
| ① PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID EDGE LINE YELLOW (TYP.) | ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SKIP DASH, WHITE TURN LANE @ 6' SKIP & 2' DASH (TYP.) | ⑩ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" DIAGONAL 45° @ 150' C-C (MINIMUM 5) WHITE (TYP.) |
| ② PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SKIP DASH, 10' DASH-30" YELLOW (TYP.) | ⑥ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID, WHITE TURN LANE (TYP.) | ⑪ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" LINE WHITE (TYP.) |
| ③ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID EDGE LINE WHITE (TYP.) | ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 8" GORE MARKING AND CHANNELIZING LINES WHITE (TYP.) | ⑫ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 24" SOLID STOP LINES, WHITE (TYP.) |
| ④ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.) | ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" DIAGONAL 45° @ 10' OR LESS LINE WHITE (TYP.) | ⑬ PROP. THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS WHITE (TYP.) |
| | ⑨ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" DIAGONAL 45° @ 150' C-C (MINIMUM 5) YELLOW (TYP.) | ⑭ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID CENTERLINE YELLOW (TYP.) |

- ① PROP. SHOULDER RUMBLE STRIP, 8"



US 20 (U.S. GRANT MEMORIAL HIGHWAY)

PROP. POLYMERIZED HMA SURFACE COURSE, SMA, IL-9.5, MIX "F", N80, 1 3/4"
PROP. POLYMERIZED HMA POLY BINDER COURSE, IL-4.75, N50, 3/4"
PROP. HMA REMOVAL 2 1/2"



MODEL: EXCL - Plan 5 [Sheet]
FILE NAME: c:\p\work\p\work\hamw\md\1068090\1068090-shh-plan.dgn

| | | |
|----------------------------|------------|-----------|
| USER NAME = mohammad.hamwi | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 4/26/2025 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
US-20 (U.S. GRANT MEMORIAL HIGHWAY) FROM I-90 TO IL-47

SCALE: 1"=50' SHEET 5 OF 9 SHEETS STA. 130+00.00 TO STA. 160+00.00

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|--------|-----------------|--------------|
| 345 | 2024-1028-RS | KANE | 29 | 11 |
| CONTRACT NO. 62X67 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

US 20 (U.S. GRANT MEMORIAL HIGHWAY)

PROP. POLYMERIZED HMA SURFACE COURSE, SMA, IL-9.5, MIX "F", N80, 1 3/4"
PROP. POLYMERIZED HMA POLY BINDER COURSE, IL-4.75, N50, 3/4"
PROP. HMA REMOVAL 2 1/2"

MATCHLINE STA. 160+00.00

MATCHLINE STA. 175+00.00

PAVEMENT MARKING LEGEND

- ① PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID EDGE LINE YELLOW (TYP.)

② PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SKIP DASH, 10' DASH-30' YELLOW (TYP.)

③ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID EDGE LINE WHITE (TYP.)

④ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)
- ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SKIP DASH, WHITE TURN LANE @ 6' SKIP & 2' DASH (TYP.)

⑥ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID, WHITE TURN LANE (TYP.)

⑦ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 8" GORE MARKING AND CHANNELIZING LINES WHITE (TYP.)

⑧ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" DIAGONAL 45° @ 10' OR LESS LINE WHITE (TYP.)

⑨ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" DIAGONAL 45° @ 150' C-C (MINIMUM 5) YELLOW (TYP.)
- ⑩ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" DIAGONAL 45° @ 150' C-C (MINIMUM 5) WHITE (TYP.)

⑪ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" LINE WHITE (TYP.)

⑫ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 24" SOLID STOP LINES, WHITE (TYP.)

⑬ PROP. THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS WHITE (TYP.)

⑭ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID CENTERLINE YELLOW (TYP.)

PROPOSED ROADWAY WORK

- Ⓐ PROP. SHOULDER RUMBLE STRIP, 8"

US 20 (U.S. GRANT MEMORIAL HIGHWAY)

PROP. POLYMERIZED HMA SURFACE COURSE, SMA, IL-9.5, MIX "F", N80, 1 3/4"
PROP. POLYMERIZED HMA POLY BINDER COURSE, IL-4.75, N50, 3/4"
PROP. HMA REMOVAL 2 1/2"

MATCHLINE STA. 175+00.00

MATCHLINE STA. 189+00.00

LOCATION 1 ENDS:
STANDARD OVERLAY
STATION 185 + 35

MODEL: Excl - Plan 6 (Sheet)
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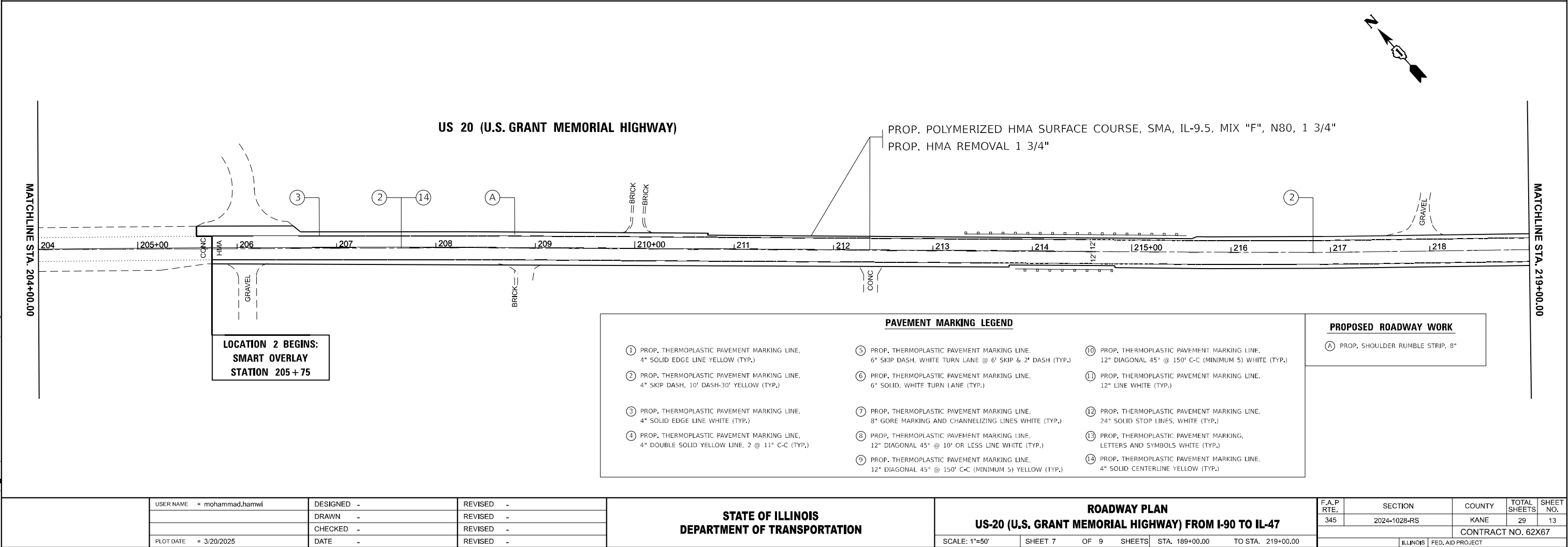
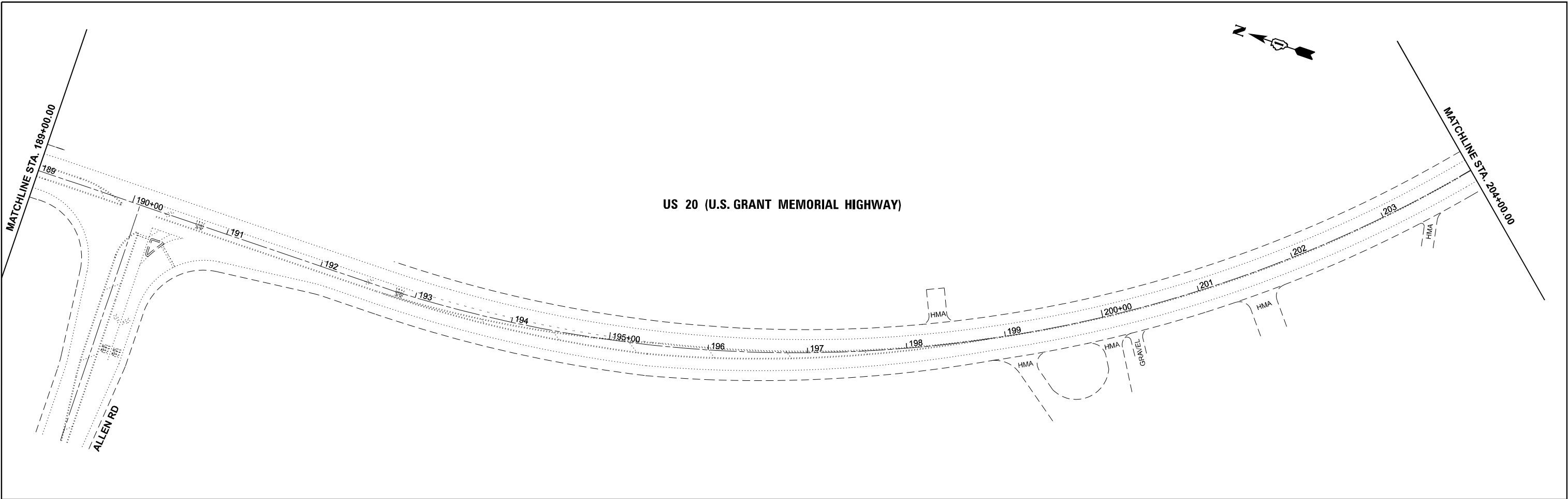
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|----------------------------|------------|-----------|
| USER NAME = mohammad.hamwi | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 4/26/2025 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
US-20 (U.S. GRANT MEMORIAL HIGHWAY) I-90 TO IL-47

SCALE: 1"=50' SHEET 6 OF 9 SHEETS STA. 160+00.00 TO STA. 189+00.00

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|--------|-----------------|--------------|
| 345 | 2024-1028-RS | KANE | 29 | 12 |
| CONTRACT NO. 62X67 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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US 20 (U.S. GRANT MEMORIAL HIGHWAY)

PROP. POLYMERIZED HMA SURFACE COURSE, SMA, IL-9.5, MIX "F", N80, 1 3/4"
PROP. HMA REMOVAL 1 3/4"

MATCHLINE STA. 219+00.00

MATCHLINE STA. 234+00.00

PAVEMENT MARKING LEGEND

PROPOSED ROADWAY WORK

- ① PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
4" SOLID EDGE LINE YELLOW (TYP.)
- ② PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
4" SKIP DASH, 10' DASH-30' YELLOW (TYP.)

- ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
6" SKIP DASH, WHITE TURN LANE @ 6" SKIP & 2" DASH (TYP.)
- ⑥ PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
6" SOLID, WHITE TURN LANE (TYP.)

- ⑩ PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
12" DIAGONAL 45° @ 150' C-C (MINIMUM 5) WHITE (TYP.)
- ⑪ PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
12" LINE WHITE (TYP.)

- Ⓐ PROP. SHOULDER RUMBLE STRIP, 8"

- ③ PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
4" SOLID EDGE LINE WHITE (TYP.)
- ④ PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)

- ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
8" GORE MARKING AND CHANNELIZING LINES WHITE (TYP.)
- ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
12" DIAGONAL 45° @ 10' OR LESS LINE WHITE (TYP.)
- ⑨ PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
12" DIAGONAL 45° @ 150' C-C (MINIMUM 5) YELLOW (TYP.)

- ⑫ PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
24" SOLID STOP LINES, WHITE (TYP.)
- ⑬ PROP. THERMOPLASTIC PAVEMENT MARKING,
LETTERS AND SYMBOLS WHITE (TYP.)
- ⑭ PROP. THERMOPLASTIC PAVEMENT MARKING LINE,
4" SOLID CENTERLINE YELLOW (TYP.)

PROP. POLYMERIZED HMA SURFACE COURSE, SMA, IL-9.5, MIX "F", N80, 1 3/4"
PROP. HMA REMOVAL 1 3/4"

MATCHLINE STA. 234+00.00

MATCHLINE STA. 249+00.00

US 20 (U.S. GRANT MEMORIAL HIGHWAY)

MODEL: EXCL - Plan 8 (Sheet)
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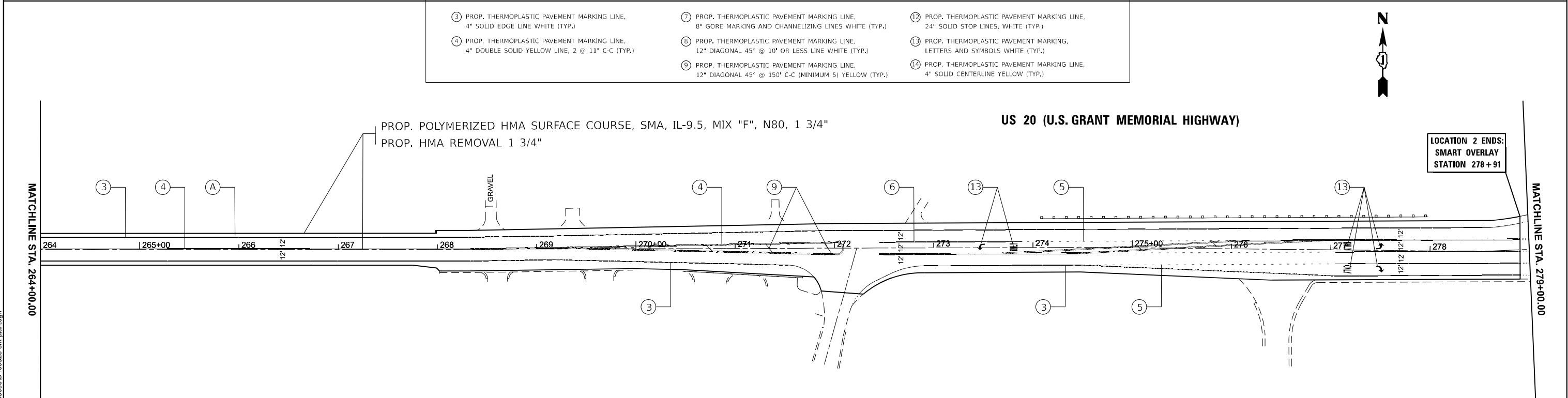
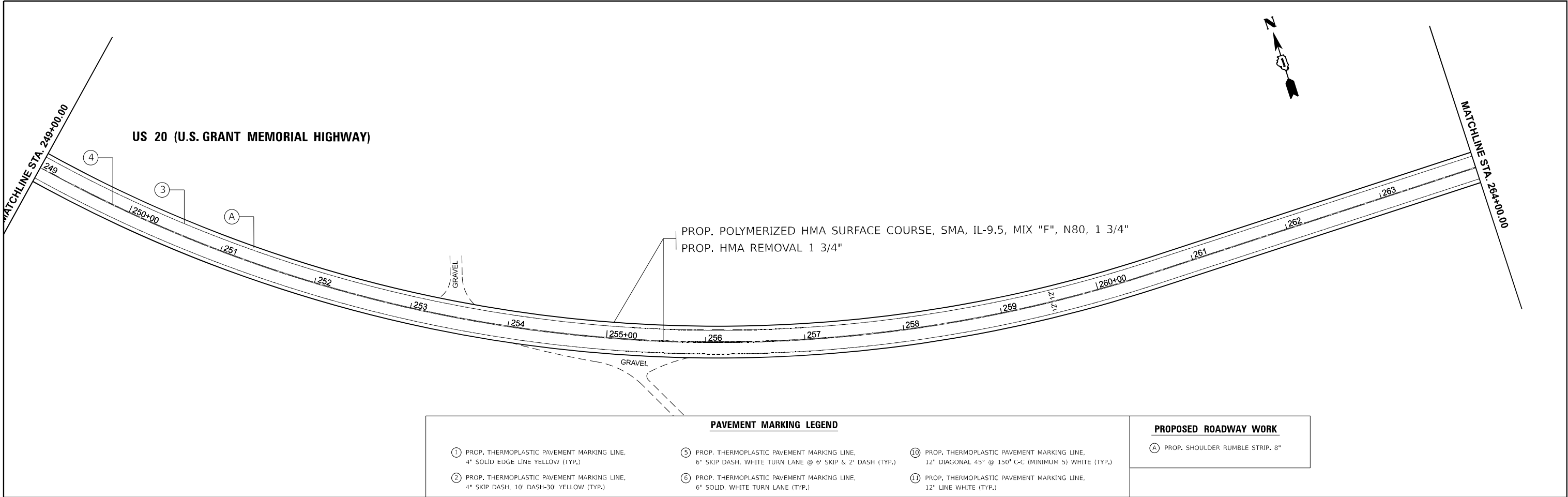
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|----------------------------|------------|-----------|
| USER NAME = mohammad.hamwi | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 3/20/2025 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
US-20 (U.S. GRANT MEMORIAL HIGHWAY) FROM I-90 TO IL-47

SCALE: 1"=50' SHEET 8 OF 9 SHEETS STA. 219+00.00 TO STA. 249+00.00

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|--------|-----------------|--------------|
| 345 | 2024-1028-RS | KANE | 29 | 14 |
| CONTRACT NO. 62X67 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |



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|----------------------------|------------|-----------|
| USER NAME = mohammad.hamwi | DESIGNED - | REVISED - |
| | DRAWN - | REVISED - |
| | CHECKED - | REVISED - |
| PLOT DATE = 4/26/2025 | DATE - | REVISED - |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

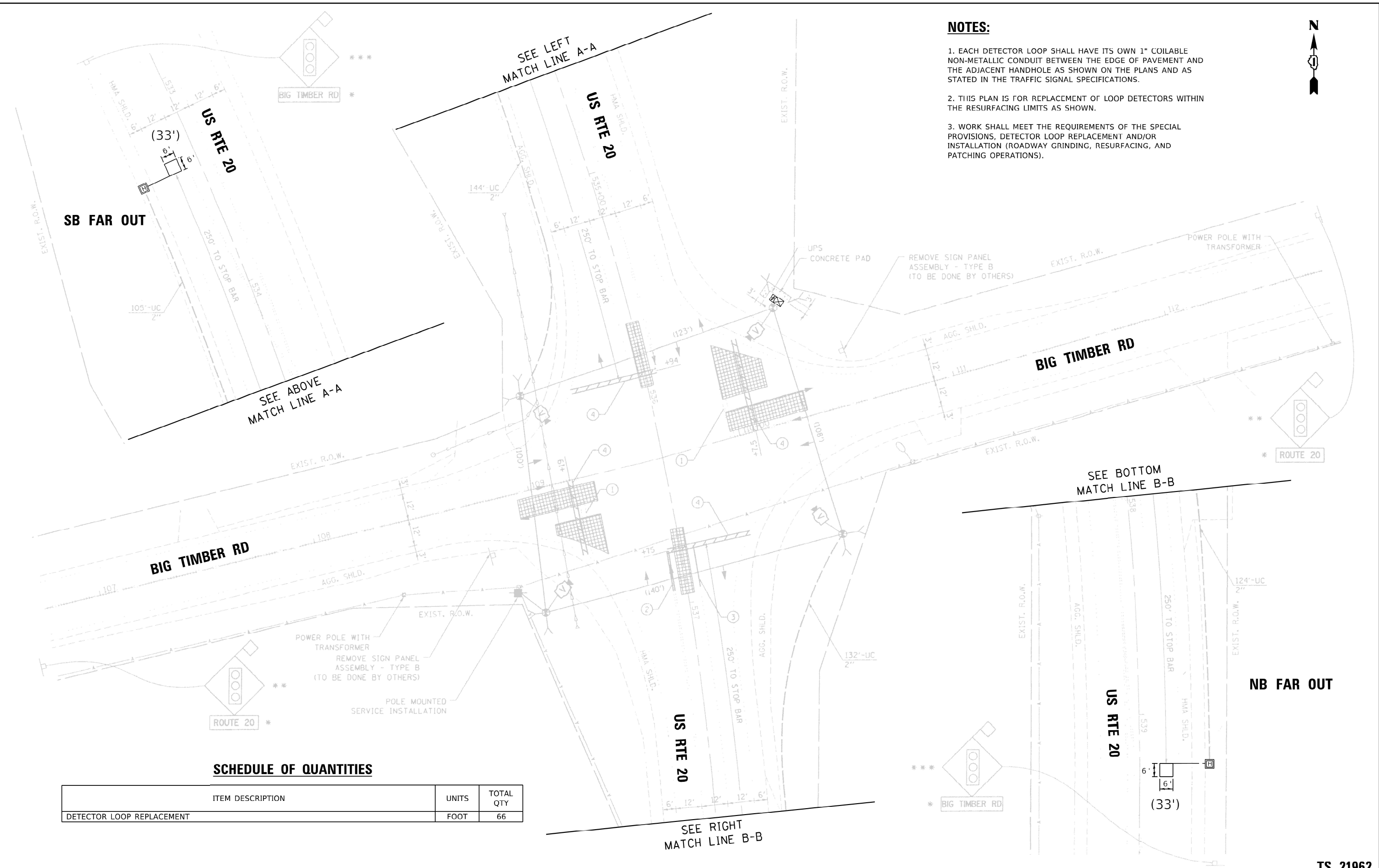
ROADWAY PLAN
US-20 (U.S. GRANT MEMORIAL HIGHWAY) FROM I-90 TO IL-47

SCALE: 1"=50' SHEET 9 OF 9 SHEETS STA. 249+00.00 TO STA. 279+00.00

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|--------|--------------|-----------|
| 345 | 2024-1028-RS | KANE | 29 | 15 |
| CONTRACT NO. 62X67 | | | | |
| 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. THIS PLAN IS FOR REPLACEMENT OF LOOP DETECTORS WITHIN THE RESURFACING LIMITS AS SHOWN.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).



SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY |
|---------------------------|-------|-----------|
| DETECTOR LOOP REPLACEMENT | FOOT | 66 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

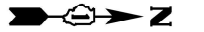
DETECTOR LOOP REPLACEMENT PLAN
US ROUTE 20 AND BIG TIMBER ROAD

SCALE: SHEET OF 4 SHEETS STA. 0+00.00 TO STA. 0+00.00

TS 21962

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|--------|--------------|-----------|
| 345 | 2024-1028-RS | KANE | 29 | 16 |
| CONTRACT NO. 62X67 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

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. THIS PLAN IS FOR REPLACEMENT OF LOOP DETECTORS WITHIN THE RESURFACING LIMITS AS SHOWN.
3. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISIONS, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING, AND PATCHING OPERATIONS).



SEE SHEET (2 OF 2)
ATCH LINE B-B

| | | | | | | | | | | | | |
|--------------------------------|------------|-----------|---|---|-------|----|--------|-------------|--------------|--------|--------------|------------------|
| USER NAME = mohammad_hamwi | DESIGNED - | REVISED - | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DETECTOR LOOP REPLACEMENT PLAN (SHEET 1 OF 2) IL ROUTE 47 AND US ROUTE 20 / IL ROUTE 72 NORTH JUNCTION | | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | DRAWN - | REVISED - | | | | | | 345 | 2024-1028-RS | KANE | 29 | 17 |
| PLOT SCALE = 0.16666633' / in. | CHECKED - | REVISED - | | CONTRACT NO. 62X67 | | | | | | | | |
| PLOT DATE = 2/14/2025 | DATE - | REVISED - | | SCALE: | SHEET | OF | SHEETS | STA. | TO STA. | | ILLINOIS | FED. AID PROJECT |

MODEL: DetailSht02 [Sheet]
FILE NAME: c:\pwwork\pwwork\hamwim\d1068090\d105825-sht-details.dgn



EB FAR OUTS

US RTE 20

SB FAR OUTS
OUTSIDE OF LIMITS

IL RTE 47

NB FAR OUTS
OUTSIDE OF LIMITS

US RTE 20
IL RTE 47
IL RTE 72

IL RTE 72

WB FAR OUTS
OUTSIDE OF LIMITS

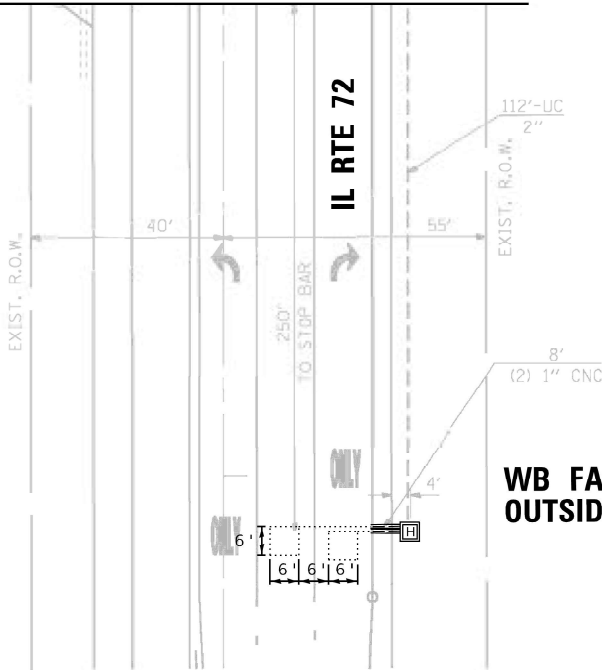
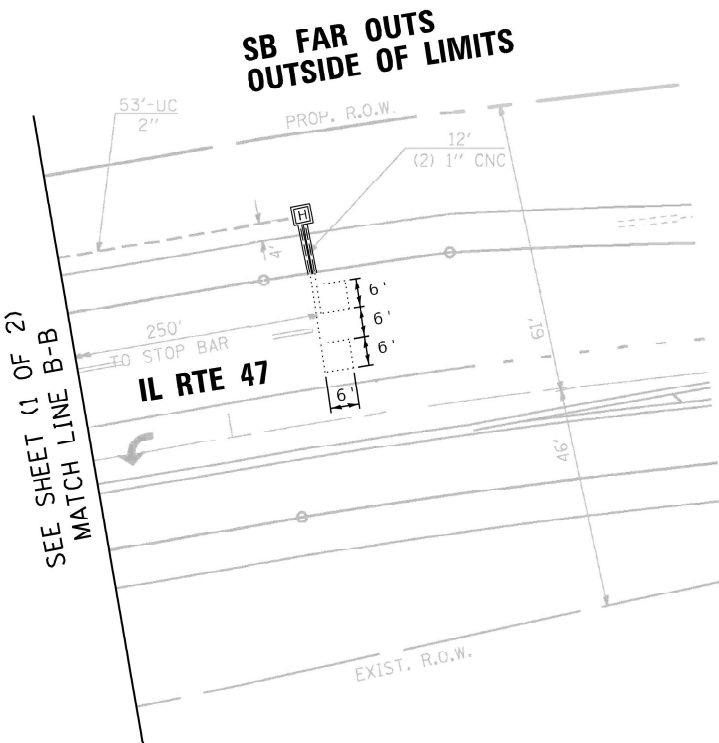
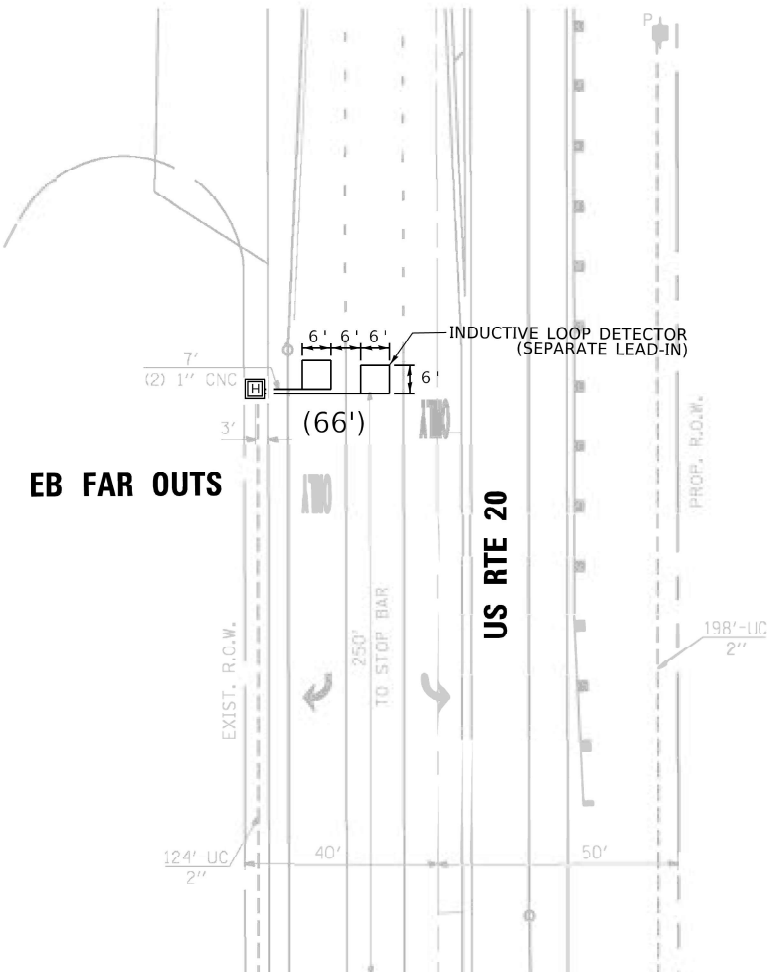
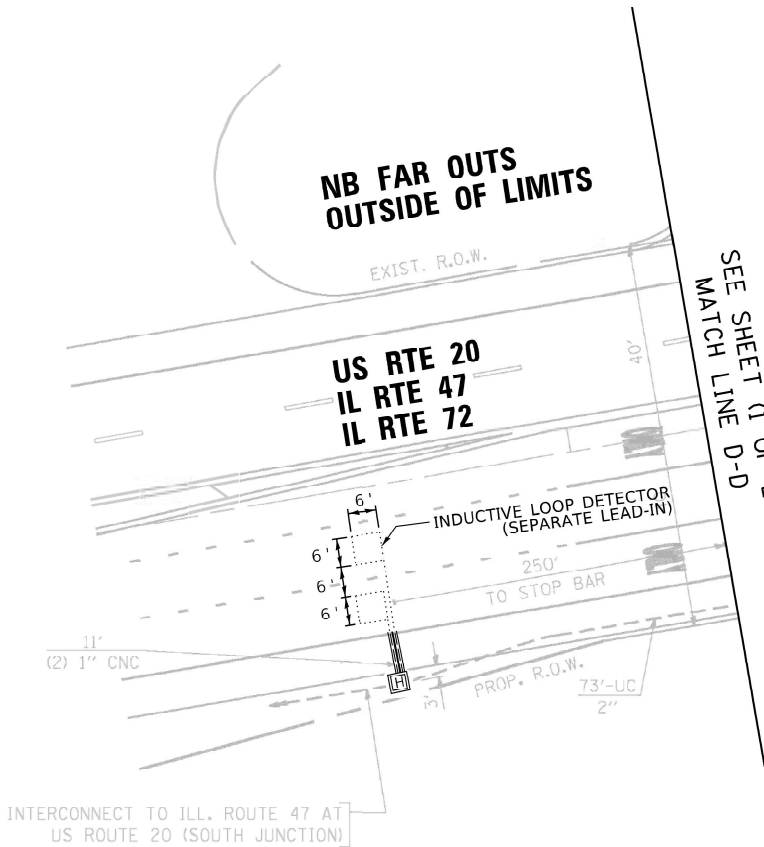
SEE SHEET (1 OF 2)
MATCH LINE A-A

SEE SHEET (1 OF 2)
MATCH LINE C-C

SEE SHEET (1 OF 2)
MATCH LINE D-D

SEE SHEET (1 OF 2)
MATCH LINE B-B

MODEL: DetailSh03 (Sheet)
FILE NAME: c:\pwworking\mohammad\1068090\1068090-shh-details.dgn



TS 777
ECON 152

| | | |
|--------------------------------|------------|-----------|
| USER NAME = mohammad.hamwi | DESIGNED - | REVISED - |
| DRAWN - | REVISED - | |
| PLOT SCALE = 0.16666633' / in. | CHECKED - | REVISED - |
| PLOT DATE = 2/14/2025 | DATE - | REVISED - |

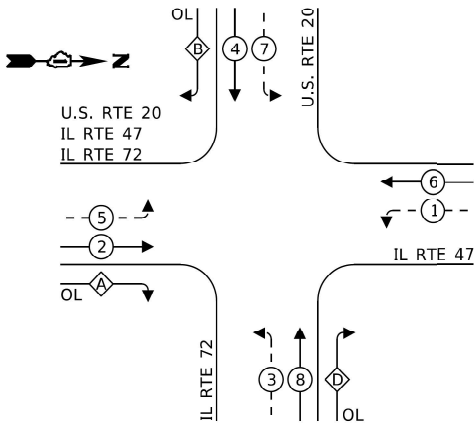
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT PLAN (SHEET 2 OF 2)
IL ROUTE 47 AND US ROUTE 20 / IL ROUTE 47 NORTH JUNCTION

SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------------------|--------------|--------|--------------|-----------|
| 345 | 2024-1028-RS | KANE | 29 | 18 |
| CONTRACT NO. 62X67 | | | | |
| ILLINOIS FED. AID PROJECT | | | | |

EXISTING CONTROLLER SEQUENCE



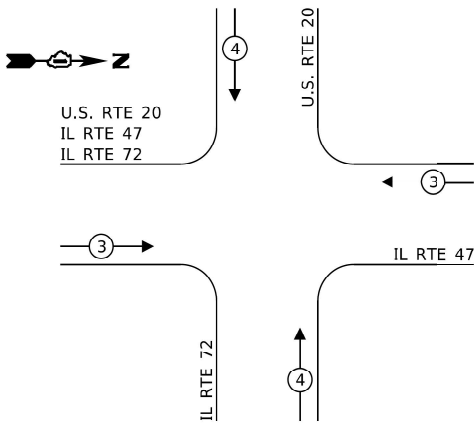
LEGEND:

- PROTECTED PHASE
- PROTECTED/PERMITTED PHASE
- PEDESTRIAN PHASE
- OVERLAP

RIGHT TURN OVERLAP
PHASE DESIGNATION:

| OVERLAP LETTER | | PERMISSIVE PHASE | | PROTECTED PHASE |
|----------------|---|------------------|---|-----------------|
| A | = | 2 | + | 3 |
| B | = | 4 | + | 5 |
| D | = | 8 | + | 1 |

EXISTING EMERGENCY VEHICLE
PREEMPTION SEQUENCE



TRAFFIC SIGNAL
ELECTRICAL SERVICE REQUIREMENTS

| EQUIPMENT TYPE | QUANTITY | UNIT WATTAGE | TOTAL WATTAGE |
|----------------------------|----------|--------------|---------------|
| SIGNAL HEAD 1 OR 3 SECTION | 2 | 11 | 22 |
| 4-SECTION | - | 14 | - |
| 5-SECTION | 14 | 13 | 182 |
| PROGRAMMABLE 3-SECTION | - | 22 | - |
| 4-SECTION | - | 32 | - |
| 5-SECTION | - | 28 | - |
| PEDESTRIAN SIGNAL | - | 15 | - |
| CONTROLLER | 1 | 150 | 150 |
| MASTER CONTROLLER | - | 100 | - |
| UPS | 1 | 25 | 25 |
| DETECTION RADAR OR VIDEO | - | 20 | - |
| BLANK-OUT SIGN | - | 25 | - |
| NETWORK SWITCH II OR III | - | 35 | - |
| CELLULAR MODEM | - | 15 | - |
| TOTAL UPS SIZING | | | 379 |
| UPS CHARGING | 1 | 225 | 225 |
| BATTERY HEATER MAT | 1 | 180 | 180 |
| CABINET HEATER | 1 | 200 | 200 |
| FLASHER | - | 15 | - |
| LED STREET NAME SIGN | - | 120 | - |
| LUMINAIRE | 4 | 240 | 960 |
| TOTAL SERVICE WIRE SIZING | | | 1944 |

| | | | |
|---------------------------------------|-----------------|--------------|--|
| ENERGY COSTS TO: | | | |
| ILLINOIS DEPARTMENT OF TRANSPORTATION | | | |
| 201 W CENTER CT | | | |
| SCHAUMBURG, IL 60196 | | | |
| ENERGY SUPPLY: | CONTACT: | CASSIE EVANS | |
| | PHONE: | 1/3-241-0/41 | |
| | COMPANY: | COMED | |
| | ACCOUNT NUMBER: | --- | |
| | METER NUMBER: | --- | |

U.S. ROUTE 20
IL ROUTE 47
IL ROUTE 72

U.S. ROUTE 20

IL ROUTE 47

IL ROUTE 72

EX. INTERCONNECT
TO IL RTE 14 / AI
US RTE 20 (SOUTH JUNCTION)

EX. TRACER CABLE

SCHEDULE OF QUANTITIES

| ITEM DESCRIPTION | UNITS | TOTAL QTY |
|---|-------|-----------|
| MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION | EACH | 1 |
| ELECTRIC CABLE IN CONDUIT, LEAD-IN, NO. 14 1 PAIR | FOOT | 1034 |
| INDUCTIVE LOOP DETECTOR | EACH | 2 |
| DETECTOR LOOP, TYPE 1 | FOOT | 66 |

CABLE PLAN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CABLE PLAN, PHASE DESIGNATION DIAGRAM, SCHEDULE OF QUANTITIES
AND EMERGENCY VEHICLE PREEMPTION SEQUENCE
IL ROUTE 47 AND US ROUTE 20 / IL ROUTE 72 (NORTH JUNCTION)

SCALE: SHEET OF SHEETS STA. TO STA.

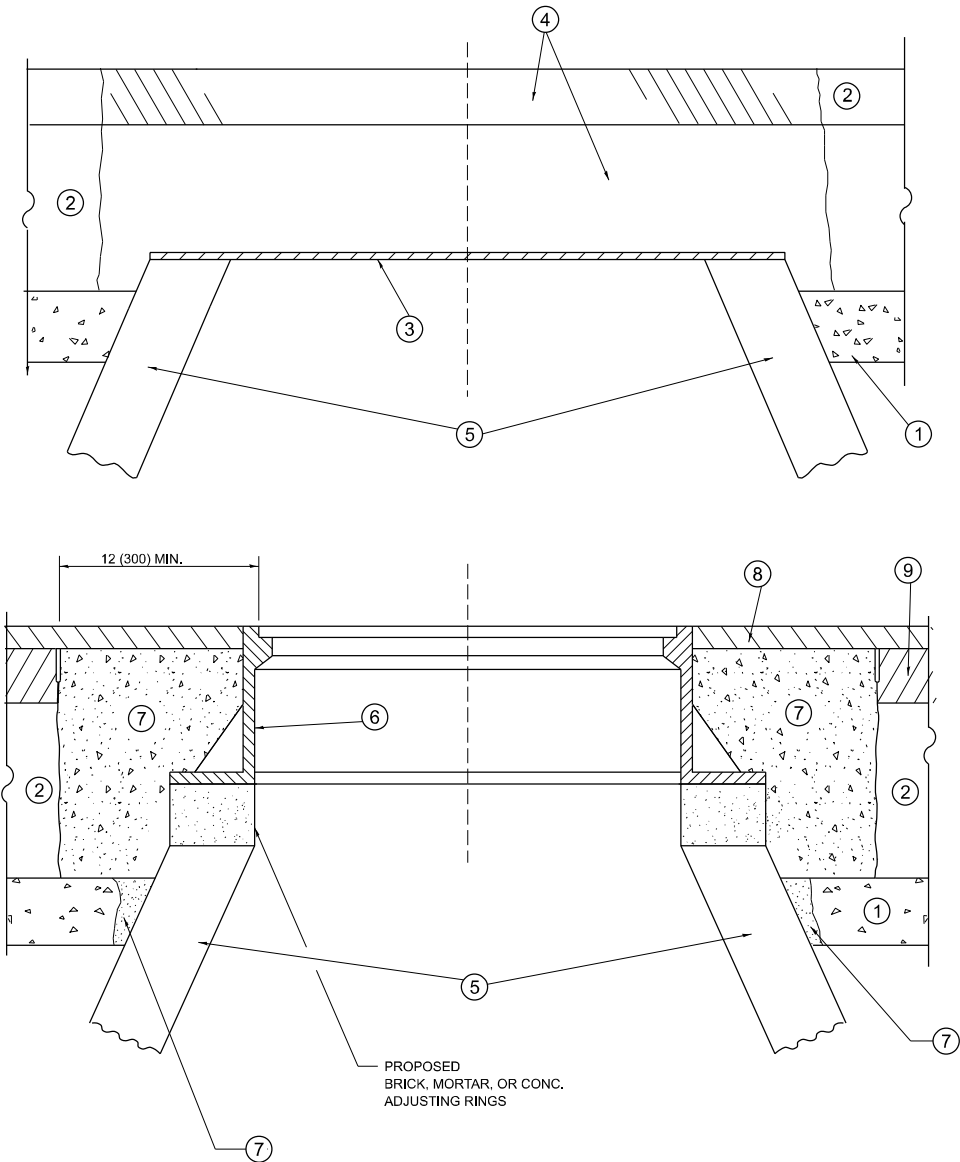
| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|--------------------|--------------|--------|--------------|-----------|
| 345 | 2024-1028-RS | KANE | 29 | 19 |
| CONTRACT NO. 62X67 | | | | |

ILLINOIS FED. AID PROJECT

TS 777
ECON 152

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MODEL: BD 8 [Sheet]
FILE NAME: c:\p\work\pww\hamw\md1068090\D106825-shh-Dia\Std.s.dgn



**DETAILS FOR FRAMES AND LIDS ADJUSTMENT
WITH MILLING**

NOTES

- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE MILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.
- CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.
- THE CONTRACTOR SHALL REMOVE ALL TRAFFIC CONTROL DEVICES BY THE END OF EACH WORK SHIFT.

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 3 (80) HMA TO REMAIN AFTER MILLING).

STAGE 2 (AFTER PAVEMENT MILLING)

- REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-2* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

*UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

- REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."
- THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

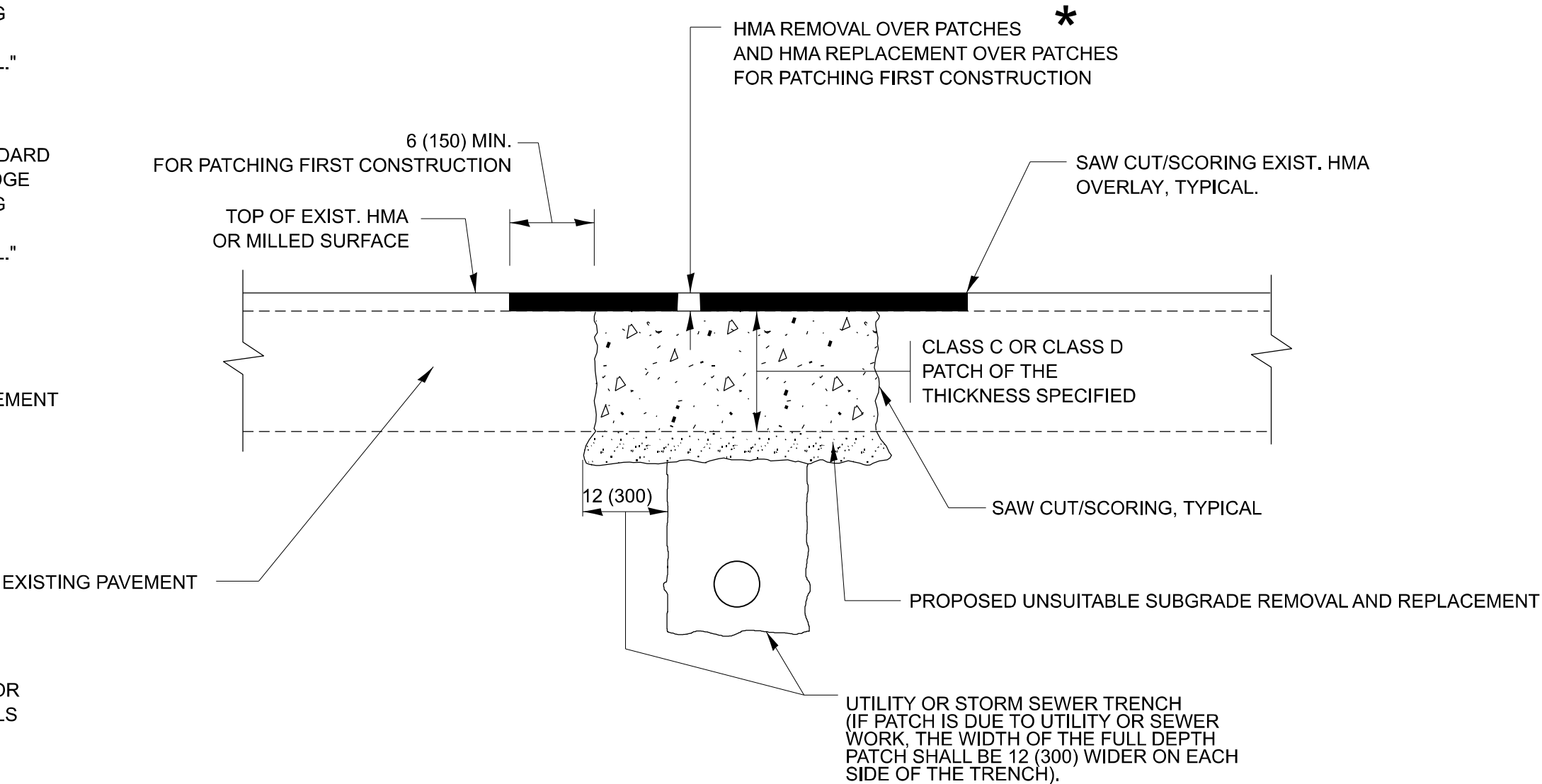
| | | | | | | | | | | | | |
|--|----------------------------|--------------------|-----------------------------|---|--|---------|-------------|--------------------|--------------|-----------------------------|--------------|-----------|
| | USER NAME = mohammad.hamwi | DESIGNED - R. SHAH | REVISED - R. BORO 03-09-11 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | DRAWN - | REVISED - R. BORO 12-06-11 | | | | | 345 | 2024-1028-RS | KANE | 29 | 20 |
| | | CHECKED - | REVISED - K. SMITH 11-18-22 | | BD600-03 (BD-08) | | | CONTRACT NO. 62X67 | | | | |
| | PLOT DATE = 2/13/2025 | DATE - 10-25-94 | REVISED - K. SMITH 09-15-23 | | SCALE: NONE | SHEET 1 | OF 1 SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT | | |

METHOD OF MEASUREMENT

REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."

BASIS OF PAYMENT

- 1. REFER TO SECTION 442 OF THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND THE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL."
- 2. SAW CUT/SCORING OF EXISTING HMA OVERLAY IS INCLUDED IN THE COST OF PAVEMENT PATCHING.
- 3. SAW CUT/SCORING OF EXISTING PAVEMENT IS INCLUDED IN THE COST OF PAVEMENT PATCHING.



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

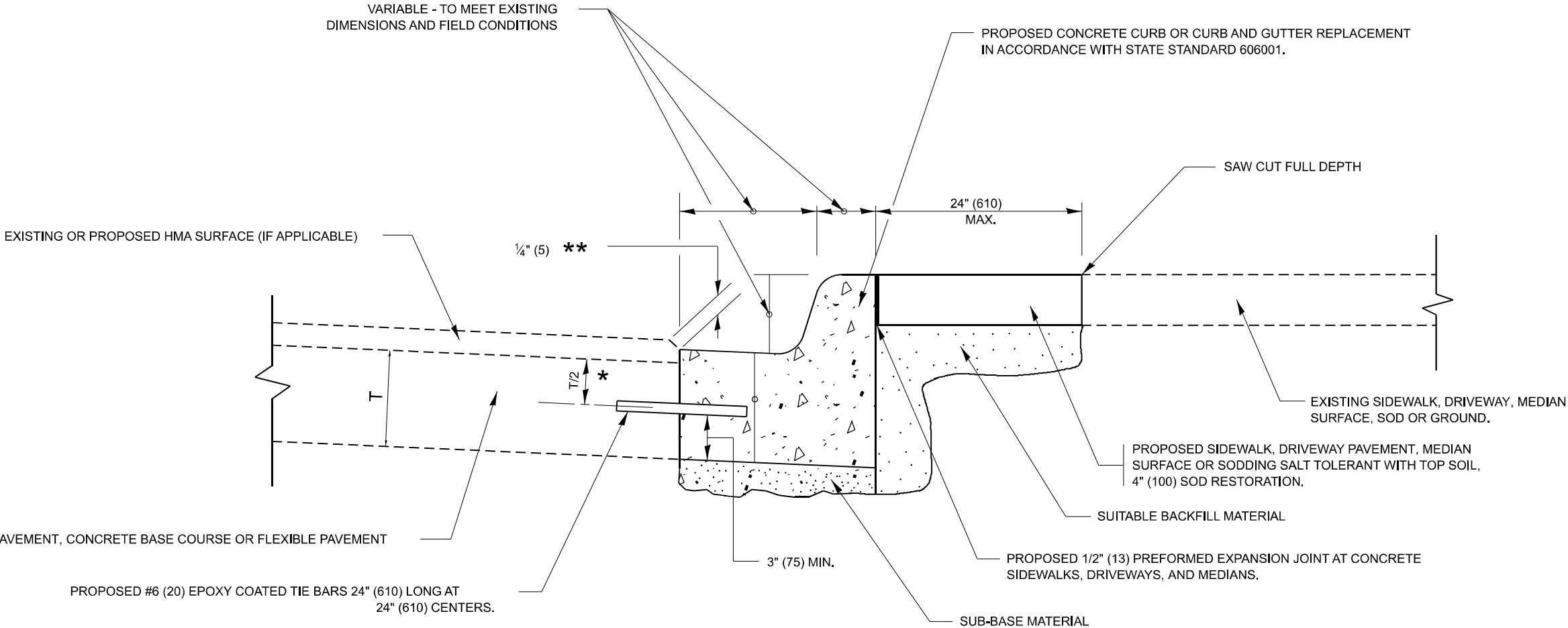
SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

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| | | | | | | | | | | | | | |
|--|----------------------------|--------------------|-----------------------------|---|--|---------|-------------|------|------------------|--------------|--------------------|--------------|-----------|
| | USER NAME = mohammad.hamwi | DESIGNED - R. SHAH | REVISED - R. BORO 01-01-07 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT | | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | DRAWN - | REVISED - R. BORO 09-04-07 | | | | | | 345 | 2024-1028-RS | KANE | 29 | 21 |
| | | CHECKED - | REVISED - K. ENG 10-27-08 | | | | | | BD400-04 (BD-22) | | CONTRACT NO. 62X67 | | |
| | PLOT DATE = 2/13/2025 | DATE - 10-25-94 | REVISED - K. SMITH 11-18-22 | | ILLINOIS FED. AID PROJECT | | | | | | | | |
| | | | | | SCALE: NONE | SHEET 1 | OF 1 SHEETS | STA. | TO STA. | | | | |



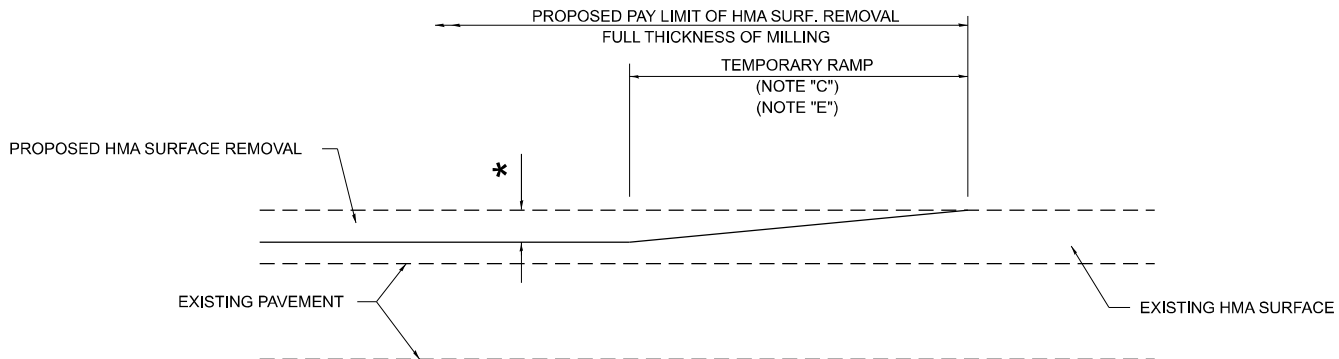
- * 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.
- ** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

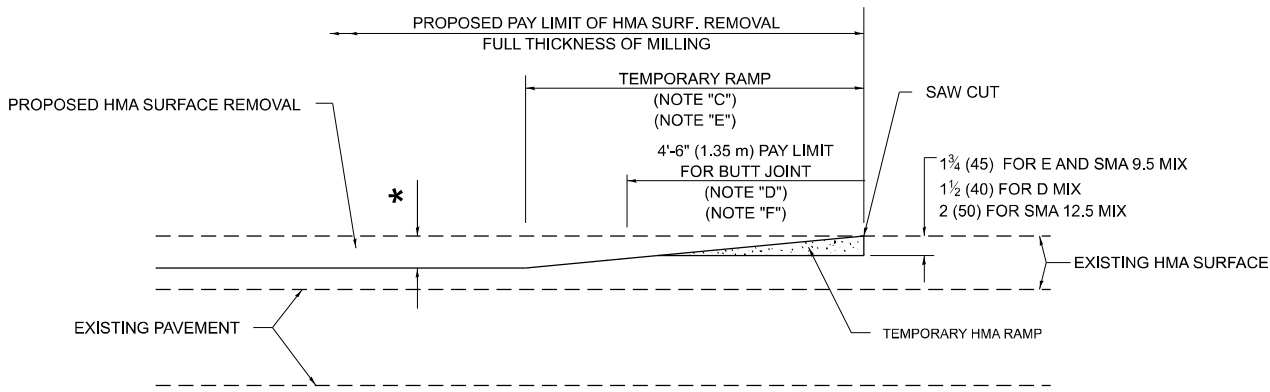
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| | USER NAME = mohammad.hamwi | DESIGNED - A. HOUSEH | REVISED - A. ABBAS 03-21-97 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | DRAWN - | REVISED - M. GOMEZ 01-22-01 | | | | | 345 | 2024-1028-RS | KANE | 29 | 22 |
| | | CHECKED - | REVISED - R. BORO 12-15-09 | | BD600-06 (BD-24) | | | CONTRACT NO. 62X67 | | | | |
| | PLOT DATE = 2/13/2025 | DATE - 03-11-94 | REVISED - K. SMITH 07-11-19 | | SCALE: NONE | SHEET 1 | OF 1 SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT | | |



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

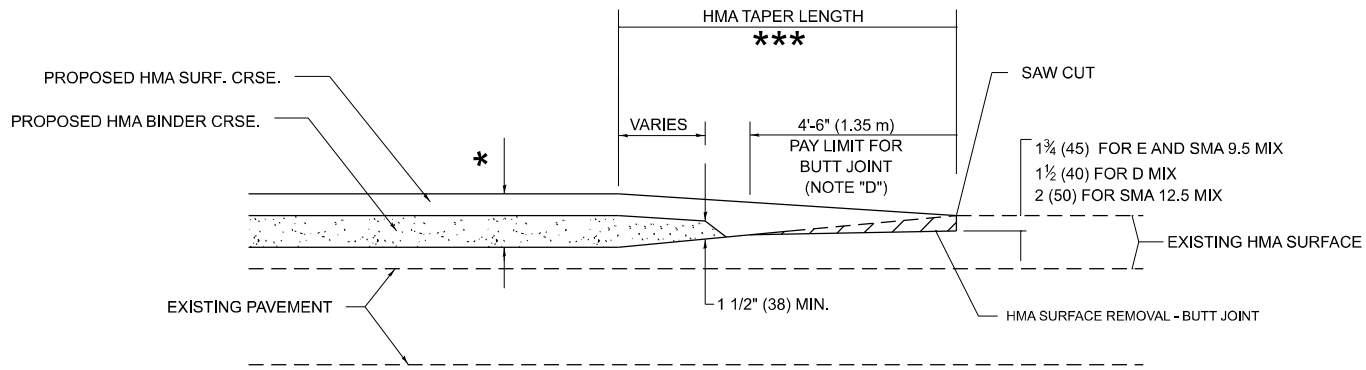
OPTION 1



HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

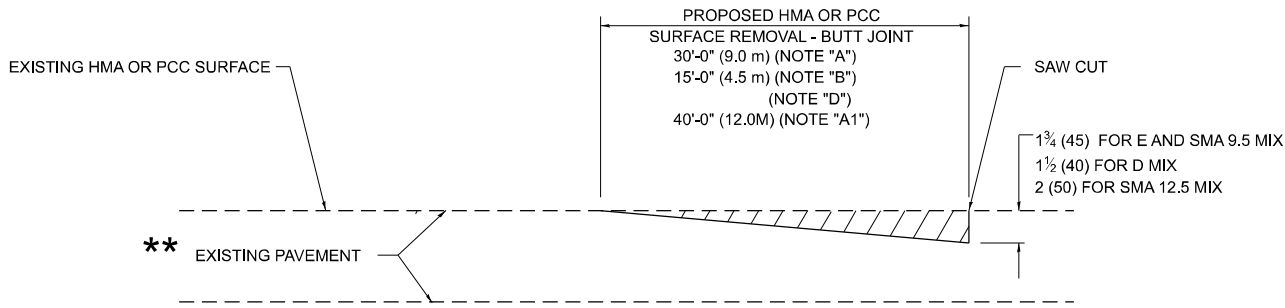
OPTION 2

TYPICAL TEMPORARY RAMP

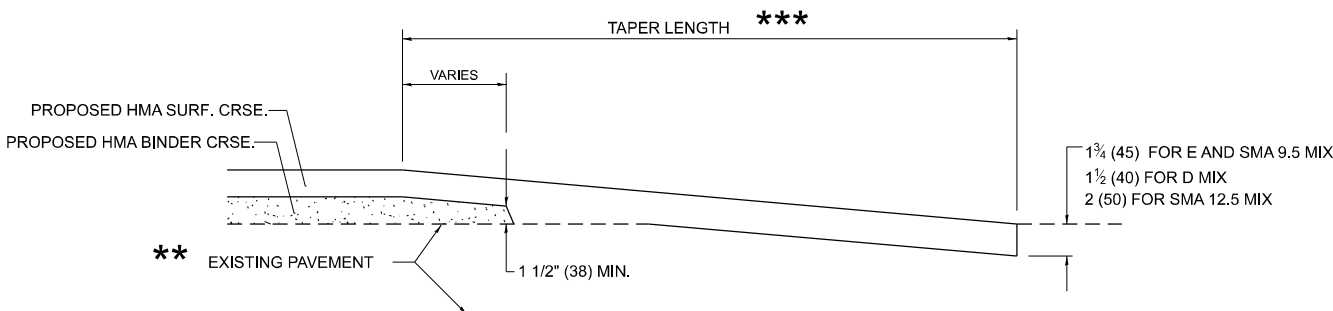


**BUTT JOINT AND
HMA TAPER**

**TYPICAL BUTT JOINT AND HMA TAPER
FOR MILLING AND RESURFACING**



BUTT JOINT DETAIL



HMA TAPER DETAIL

**TYPICAL BUTT JOINT AND HMA TAPER
FOR RESURFACING ONLY**

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

GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- 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' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
***** SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. 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

- 1. 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".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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

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FILE NAME: c:\p\work\hdm\hdm\1068090\1068090-D 106825-shh-DetStds.dgn

| | | |
|----------------------------|----------------------------|-----------------------------|
| USER NAME = mohammad.hamwi | DESIGNED - M. DE YONG | REVISED - A. ABBAS 03-21-97 |
| | DRAWN - M. GOMEZ 04-06-01 | REVISED - M. GOMEZ 04-06-01 |
| | CHECKED - R. BORO 01-01-07 | REVISED - R. BORO 01-01-07 |
| PLOT DATE = 2/13/2025 | DATE - 06-13-90 | REVISED - K. SMITH 11-18-22 |

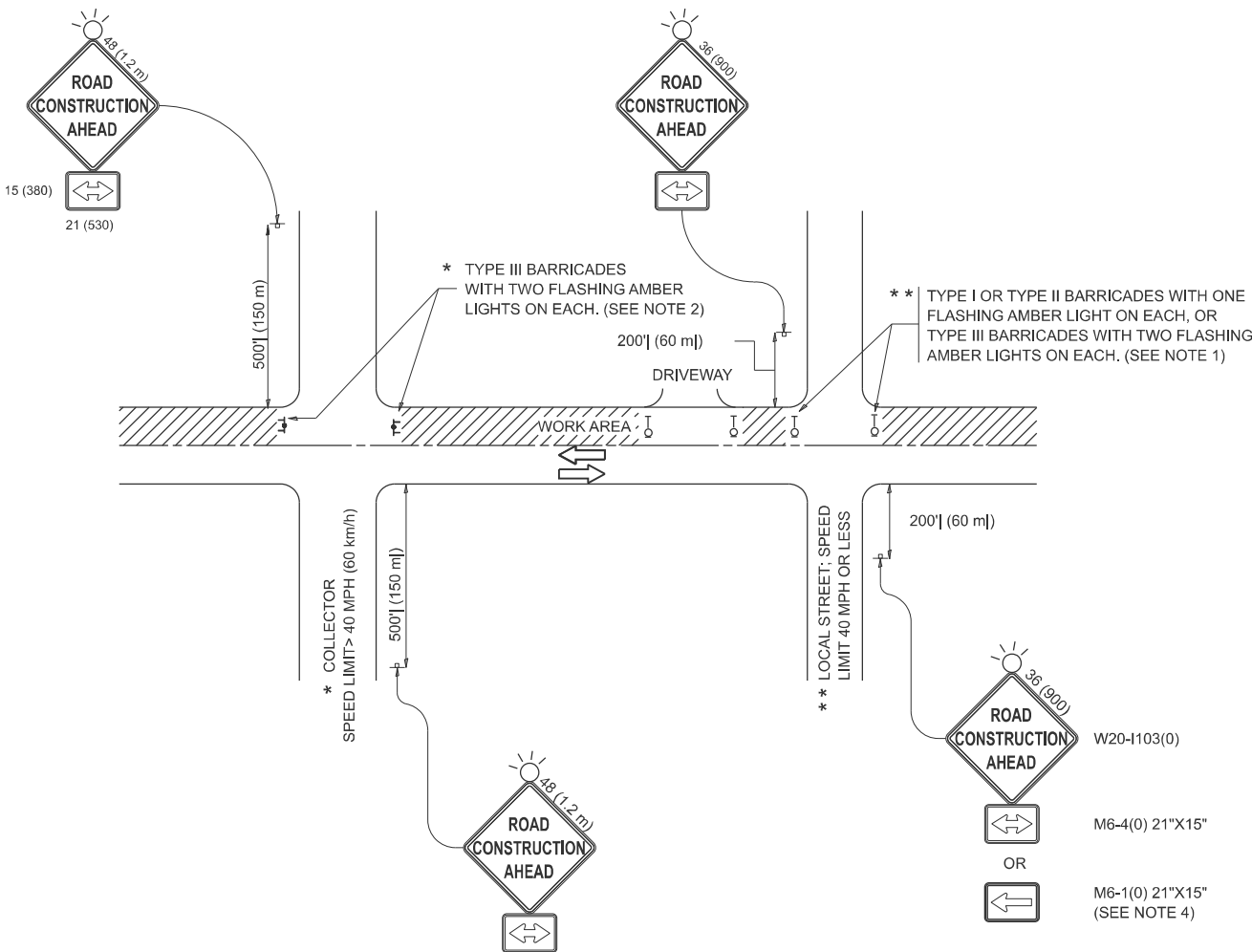
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

**BUTT JOINT AND
HMA TAPER DETAILS**

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------|--------------|--------------------|-----------------|--------------|
| 345 | 2024-1028-RS | KANE | 29 | 23 |
| BD400-05 BD-32 | | CONTRACT NO. 62X67 | | |
| ILLINOIS | | FED. AID PROJECT | | |

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NOTES:

- 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:
 - 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.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
- 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.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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.

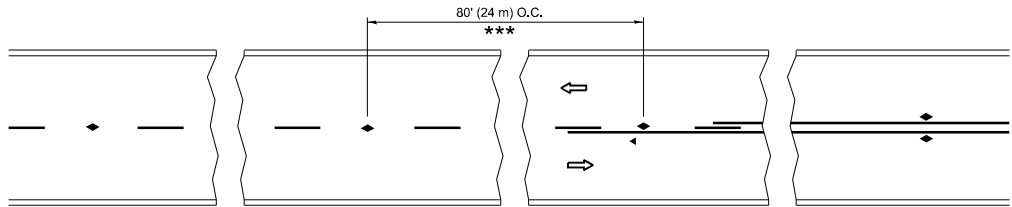
| | | |
|----------------------------|-------------------|---------------------------------|
| USER NAME = mohammad.hamwi | DESIGNED - L.H.A. | REVISED - T. RAMMACHER 01-06-00 |
| | DRAWN - | REVISED - A. SCHUETZE 07-01-13 |
| | CHECKED - | REVISED - A. SCHUETZE 09-15-06 |
| PLOT DATE = 2/13/2025 | DATE - 06-89 | REVISED - D. SENDERAK 05-03-24 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

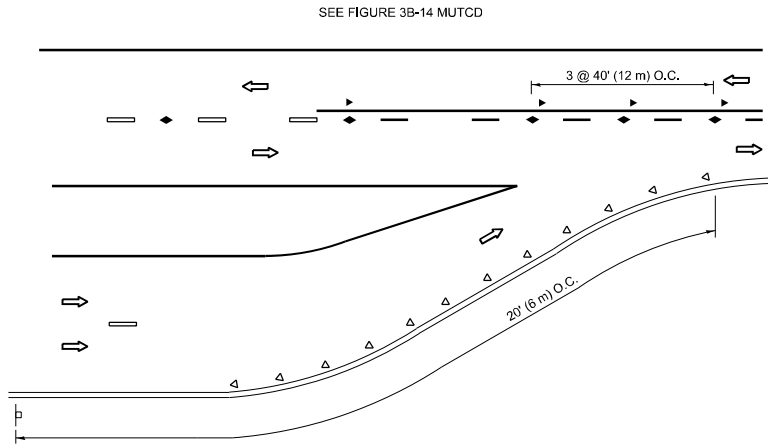
SCALE: SHEET OF SHEETS STA. TO STA.

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|----------------|--------------|--------------------|-----------------|--------------|
| 345 | 2024-1028-RS | KANE | 29 | 23-A |
| TC-10 | | CONTRACT NO. 62X67 | | |
| ILLINOIS | | FED. AID PROJECT | | |

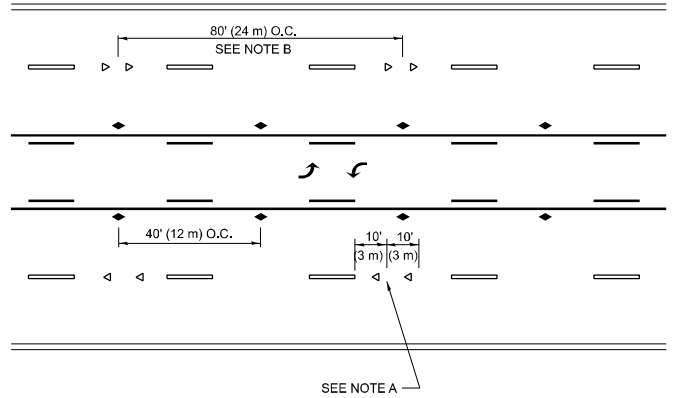


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

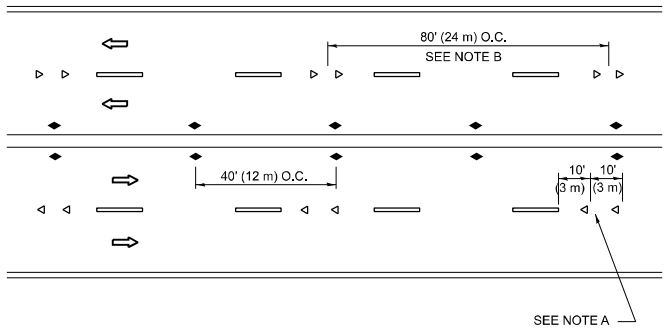
TWO-LANE/TWO-WAY



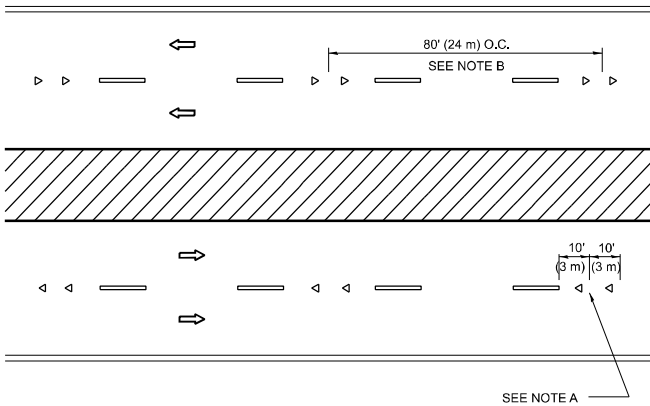
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.
- MARKERS ARE TO BE USED ADJACENT TO BOTH SOLID WHITE LINES IN DUAL LEFT TURN LANES

SYMBOLS

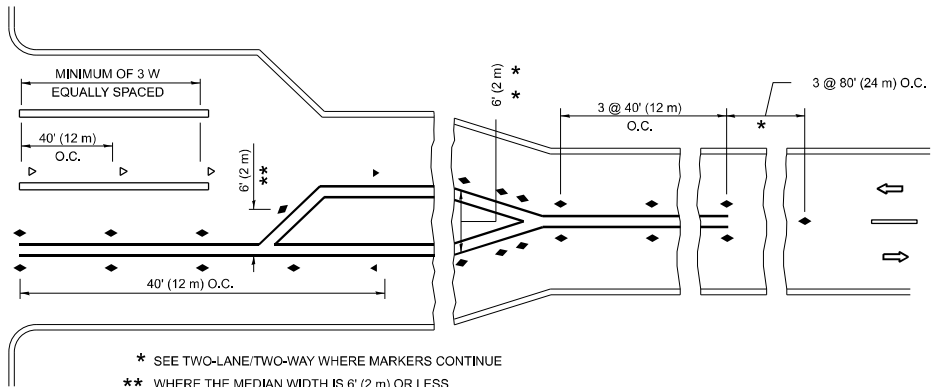
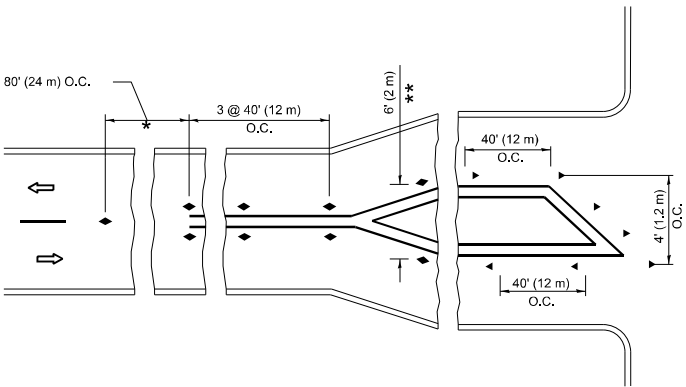
- YELLOW STRIPE
- WHITE STRIPE
- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (W/O)
- TWO-WAY AMBER MARKER

LANE MARKER NOTES

- USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- 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

- DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WHEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



TURN LANES

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

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FILE NAME: c:\p\work\p\work\hamw\m\1068090\1068090-D-106825-shh-DiaStds.dgn

| | | |
|----------------------------|------------|---------------------------------|
| USER NAME = mohammad.hamwi | DESIGNED - | REVISED - T. RAMMACHER 03-12-99 |
| | DRAWN - | REVISED - T. RAMMACHER 01-06-00 |
| | CHECKED - | REVISED - C. JUCIUS 09-09-09 |
| PLOT DATE = 2/13/2025 | DATE - | REVISED - C. JUCIUS 07-01-13 |

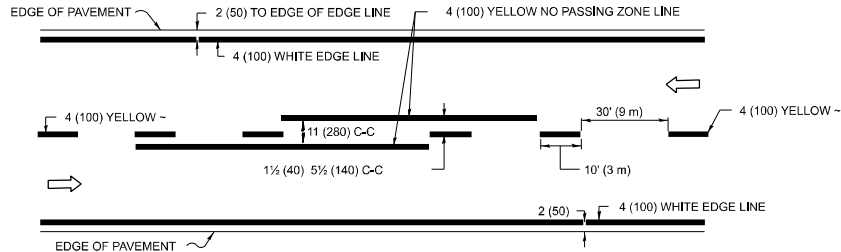
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

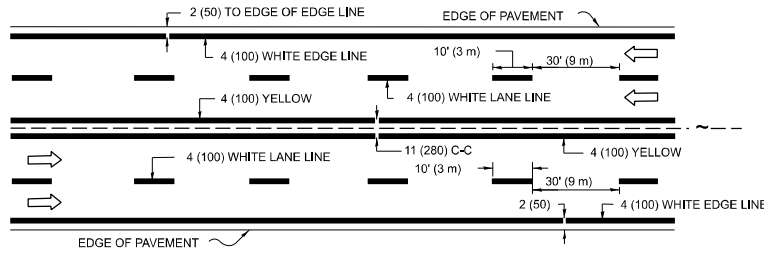
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|--------------|--------------------|--------------|-----------|
| 345 | 2024-1028-RS | KANE | 29 | 24 |
| TC-11 | | CONTRACT NO. 62X67 | | |
| ILLINOIS | | FED. AID PROJECT | | |

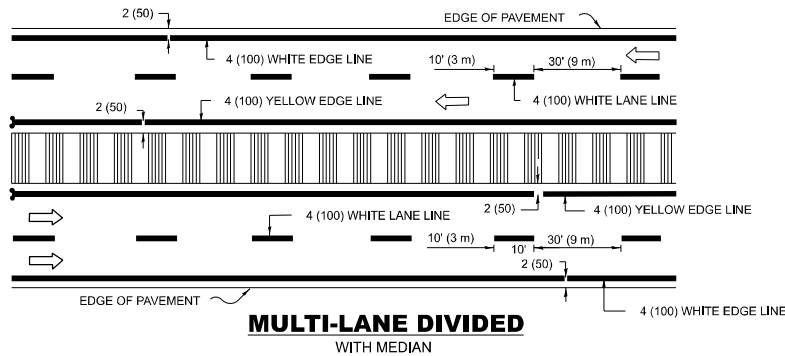
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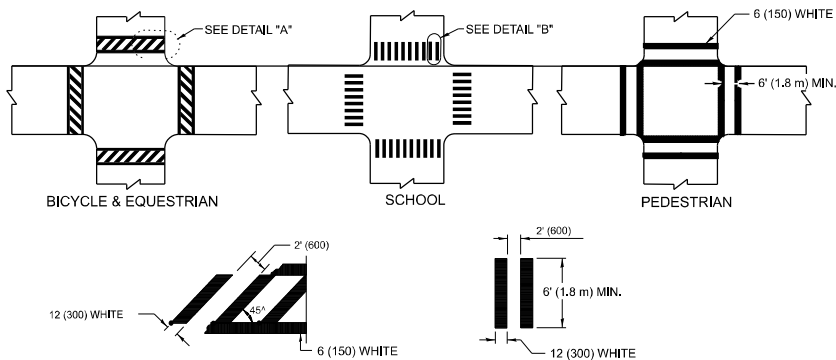
2-LANE ROADWAY



MULTI-LANE UNDIVIDED



TYPICAL LANE AND EDGE LINE MARKING

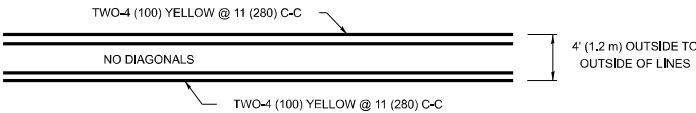


DETAIL "A"

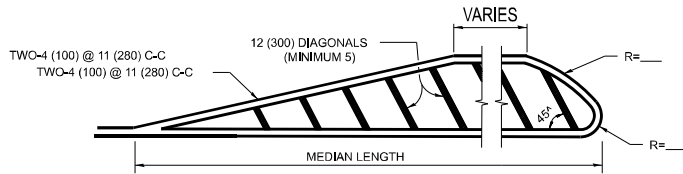
DETAIL "B"

TYPICAL CROSSWALK MARKING

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

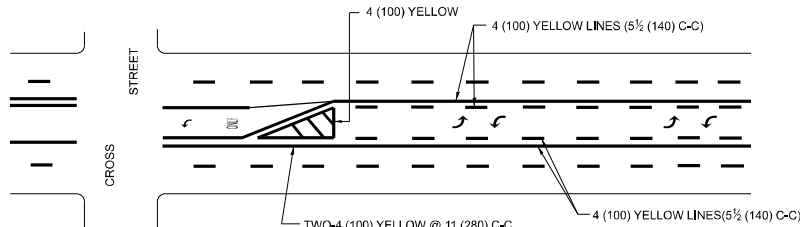


4' (1.2 m) WIDE MEDIANS ONLY



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))

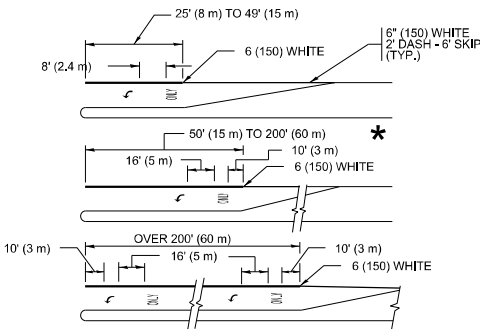
MEDIANS OVER 4' (1.2 m) WIDE



A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED. WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

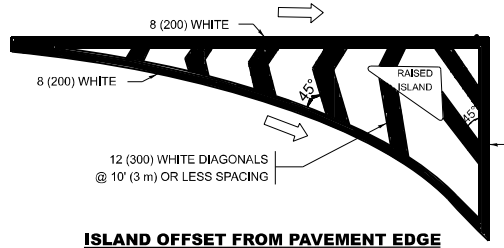


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

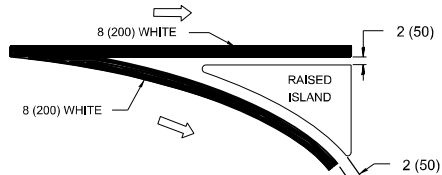
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - *ONLY* INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - *ONLY*.

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

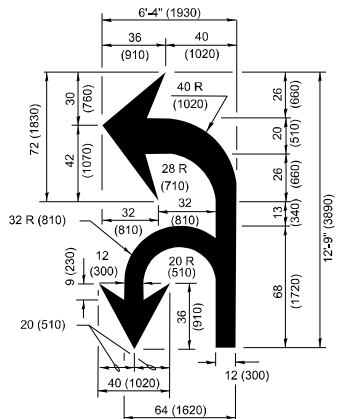


ISLAND OFFSET FROM PAVEMENT EDGE

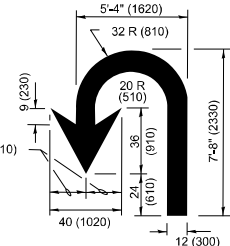


ISLAND AT PAVEMENT EDGE

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.

| 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 6' (1.9 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.

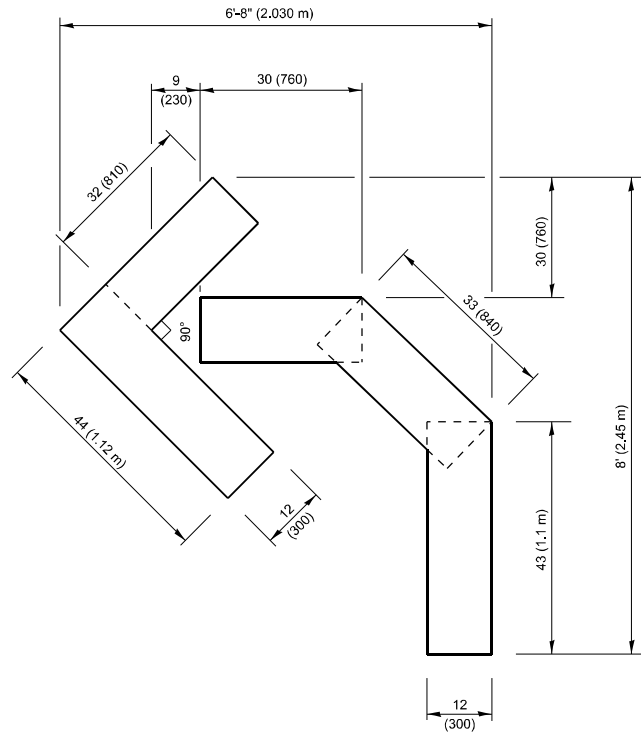
| | | |
|----------------------------|------------------|------------------------------|
| USER NAME = mohammad.hamwi | DESIGNED - EVERS | REVISED - C. JUCIUS 09-09-09 |
| | DRAWN - | REVISED - C. JUCIUS 07-01-13 |
| | CHECKED - | REVISED - C. JUCIUS 12-21-15 |
| PLOT DATE = 2/13/2025 | DATE - 03-19-90 | REVISED - C. JUCIUS 04-12-16 |

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

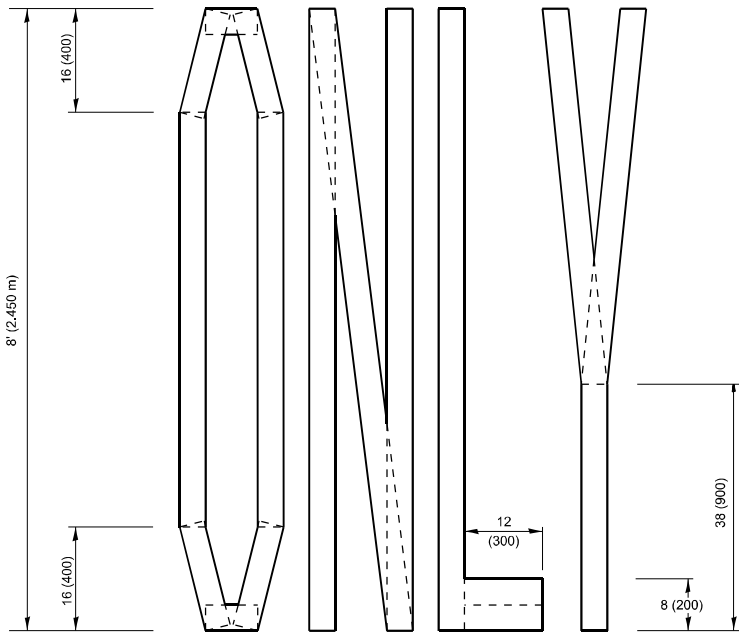
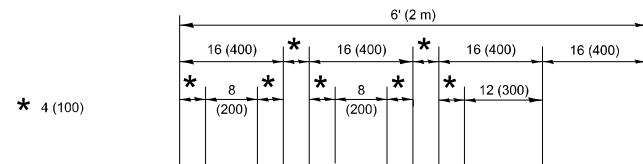
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| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|--------------|--------------------|------------------|-----------|
| 345 | 2024-1028-RS | KANE | 29 | 25 |
| TC-13 | | CONTRACT NO. 62X67 | | |
| | | ILLINOIS | FED. AID PROJECT | |



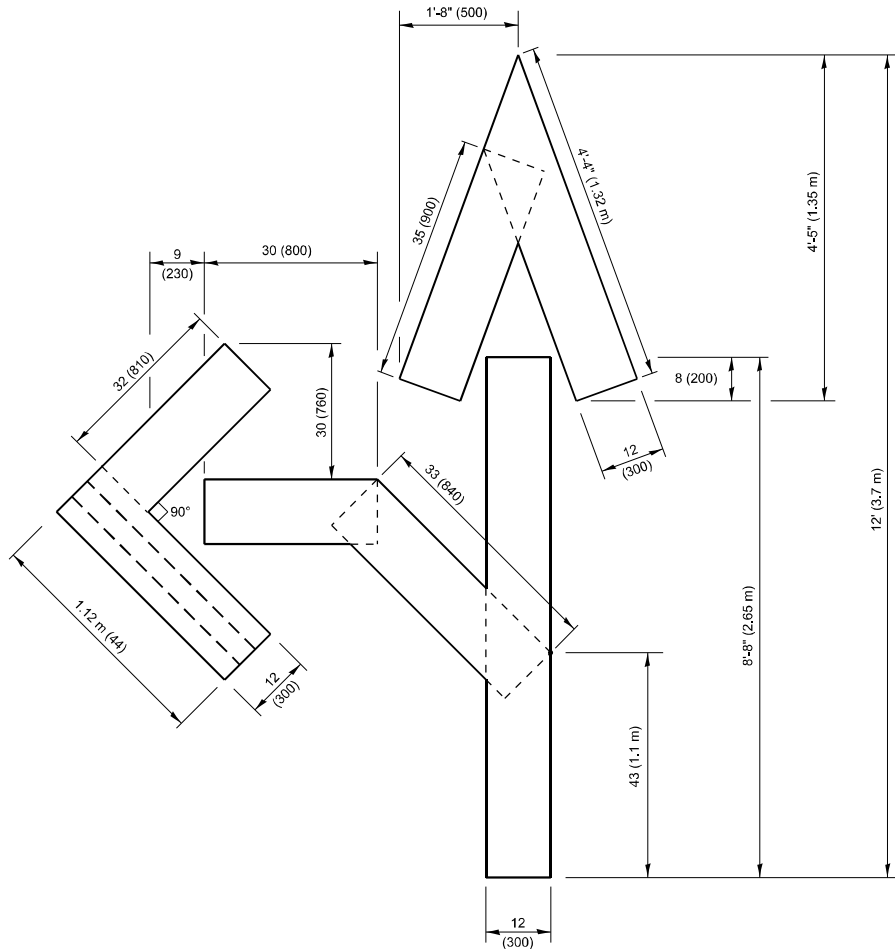
QUANTITY

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)

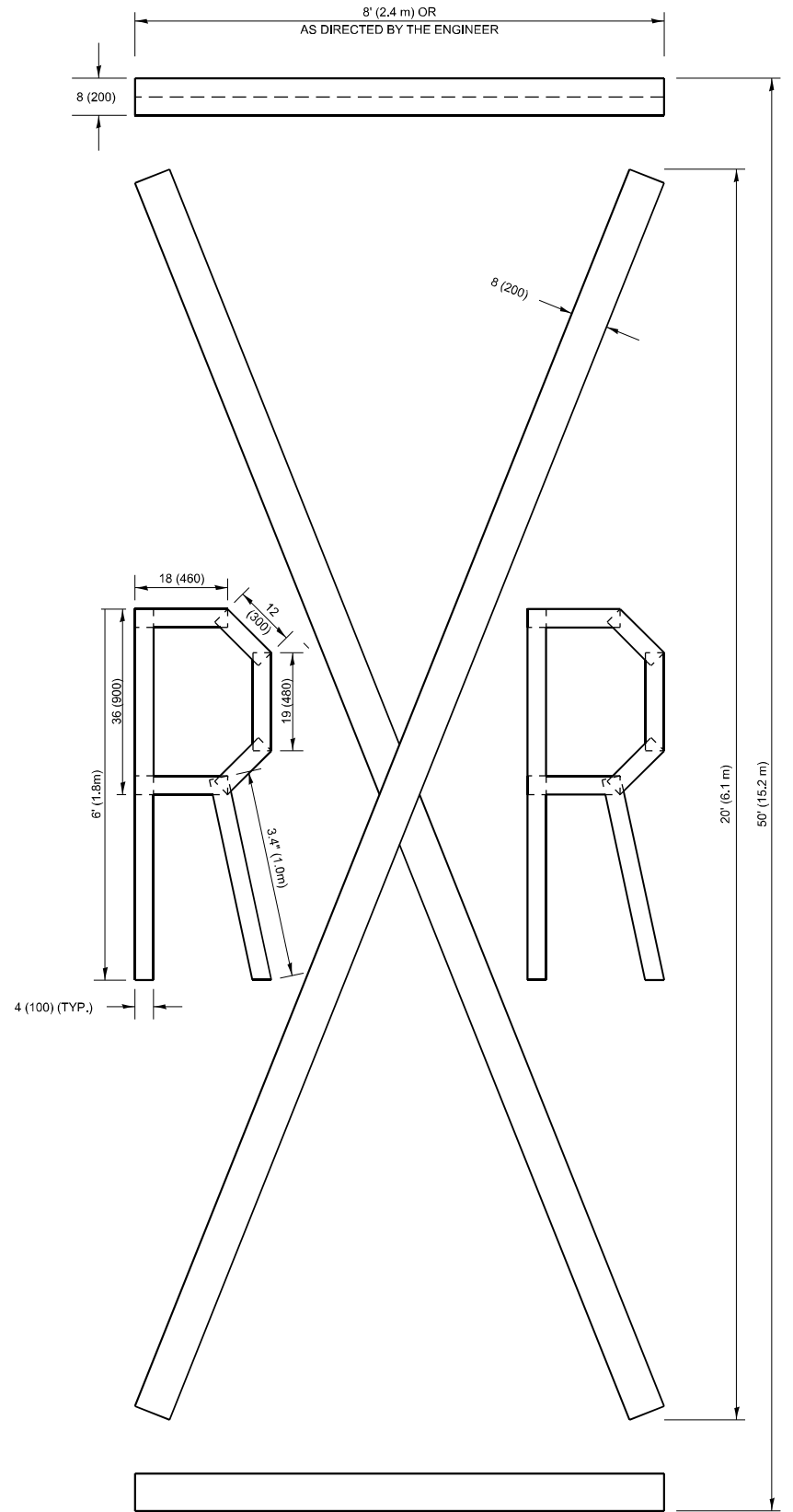


QUANTITY

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: TC 16 [Sheet]
FILE NAME: c:\p\work\p\work\hamw\md1068090\ID106825-shh-DiaStds.dgn

| | | |
|----------------------------|-----------------|---------------------------------|
| USER NAME = mohammad.hamwi | DESIGNED - | REVISED - T. RAMMACHER 03-02-98 |
| | DRAWN - | REVISED - E. GOMEZ 08-28-00 |
| | CHECKED - | REVISED - E. GOMEZ 08-28-00 |
| PLOT DATE = 2/13/2025 | DATE - 09-18-94 | REVISED - A. SCHUETZE 09-15-16 |

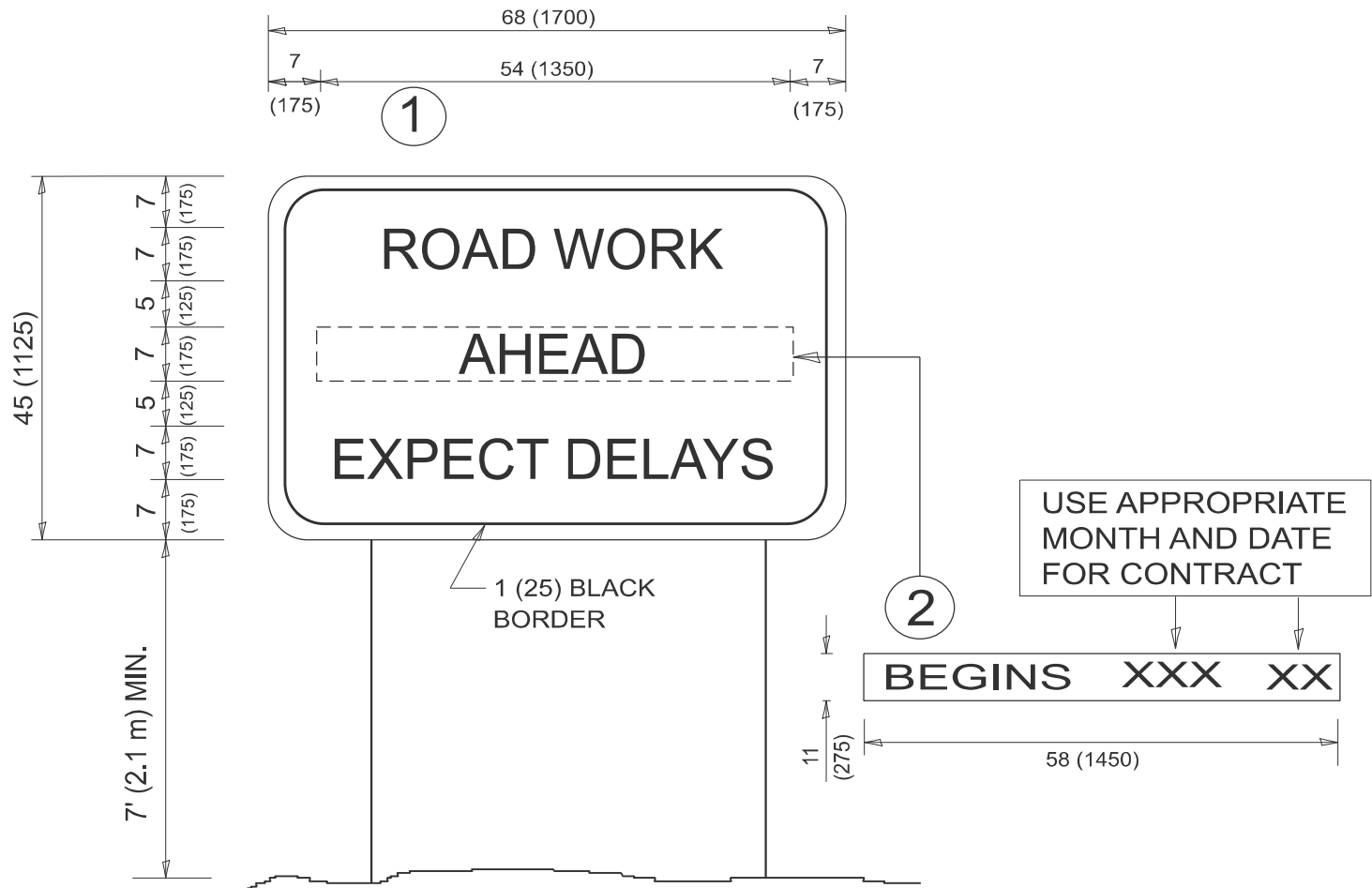
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

| F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|-------------|--------------|--------------------|------------------|-----------|
| 345 | 2024-1028-RS | KANE | 29 | 26 |
| TC-16 | | CONTRACT NO. 62X67 | | |
| | | ILLINOIS | FED. AID PROJECT | |

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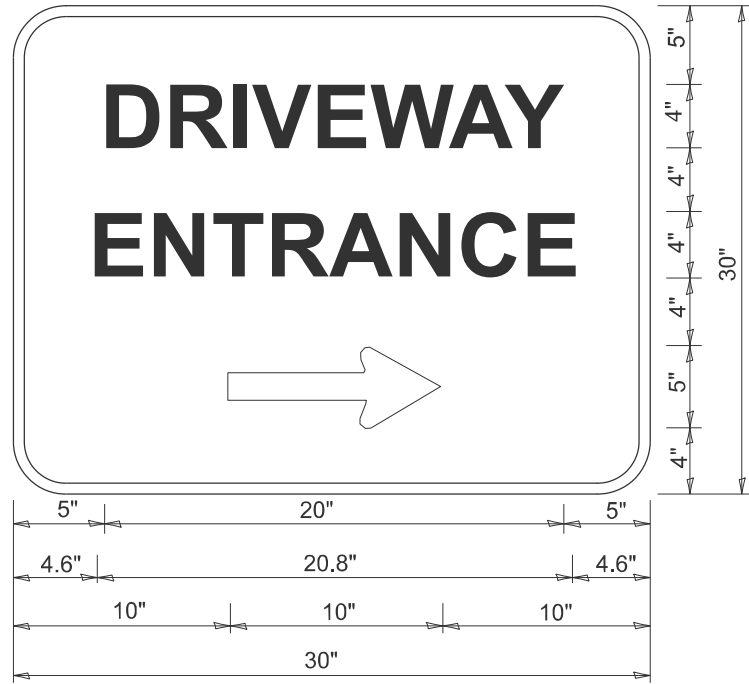


NOTES:

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.

| | | | | | | | | | | | | | | | | |
|--|------------------------------|---------------|-----------------------------------|---|-----------------------------------|-----------|--------|--------|---------------------------|--------------|--------|-----------------|--------------|--------------------|--|--|
| | USER NAME = mohammad.hamwi | DESIGNED - | REVISED - R. MIRS 09-15-97 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | ARTERIAL ROAD INFORMATION SIGN | | | | F.A.P. RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. | | | |
| | | DRAWN - | REVISED - R. MIRS 12-11-97 | | | | | | 345 | 2024-1028-RS | KANE | 29 | 27 | | | |
| | | CHECKED - | REVISED - T. RAMMACHER 02-02-99 | | | | | | TC-22 | | | | | CONTRACT NO. 62X67 | | |
| | PLOT DATE = 2/8/2025 | DATE - | REVISED - C. JUCIUS 01-31-07 | | | | | | ILLINOIS FED. AID PROJECT | | | | | | | |
| | | | | | SCALE: NONE | SHEET 1 | OF 1 | SHEETS | STA. | TO STA. | | | | | | |



3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED
"DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" x 5.0"

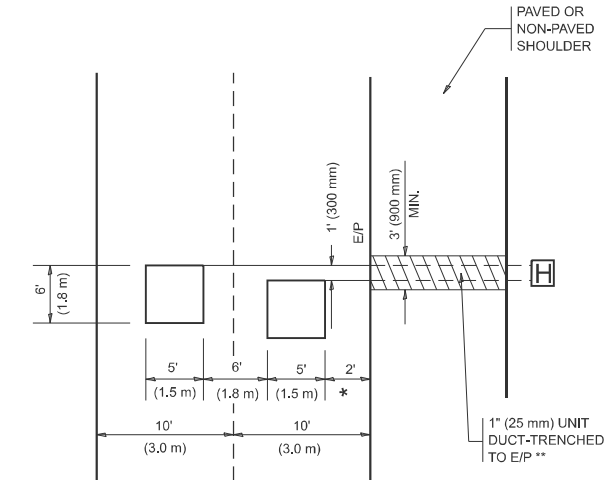
- NOTES:**
1. HALF OF THE SIGNS WILL REQUIRE A LEFT HAND FACING ARROW.
 2. TWO SIGNS SHALL BE USED AT EACH COMMERCIAL ENTRANCE
PLACED BACK-TO-BACK: ONE WITH A RIGHT HAND ARROW (SHOWN)
SHALL BE PLACED ON THE NEAR RIGHT SIDE THE DRIVEWAY
AND ONE WITH A LEFT HAND ARROW SHALL BE PLACED ON THE
FAR LEFT SIDE OF THE DRIVEWAY.
 3. SIGNS TO BE PAID FOR AS ITEM "TEMPORARY INFORMATION SIGNING".

MODEL: TC-26 (Sheet)
FILE NAME: c:\p\work\p\work\hamw\md1068090\1068090-1068090-1068090-1068090.dgn

| | | | | | | | | | | | | |
|--|----------------------------|------------|------------------------------|---|---------------------------|---------|------|--------------------|--------------|---------|---------------------------|--------------|
| | USER NAME = mohammad.hamwi | DESIGNED - | REVISED - C. JUCIUS 02-15-07 | STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION | DRIVEWAY ENTRANCE SIGNING | | | F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
| | | DRAWN - | REVISED - | | | | | 345 | 2024-1028-RS | KANE | 29 | 28 |
| | | CHECKED - | REVISED - | | TC-26 | | | CONTRACT NO. 62X67 | | | | |
| | PLOT DATE = 2/13/2025 | DATE - | REVISED - | | SCALE: NONE | SHEET 1 | OF 1 | SHEETS | STA. | TO STA. | ILLINOIS FED. AID PROJECT | |

LOOPS NEXT TO SHOULDERS

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



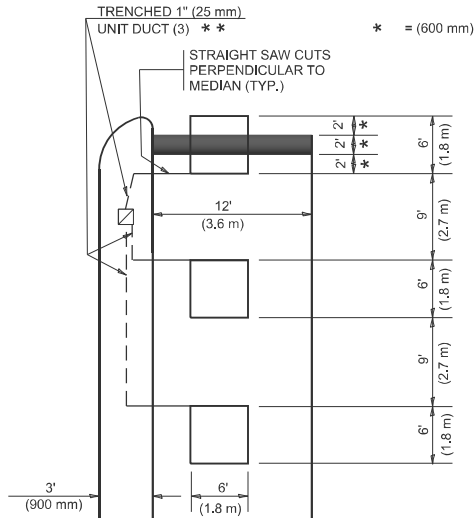
* = (600 mm)

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

LEFT TURN LANES WITH MEDIANS

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

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

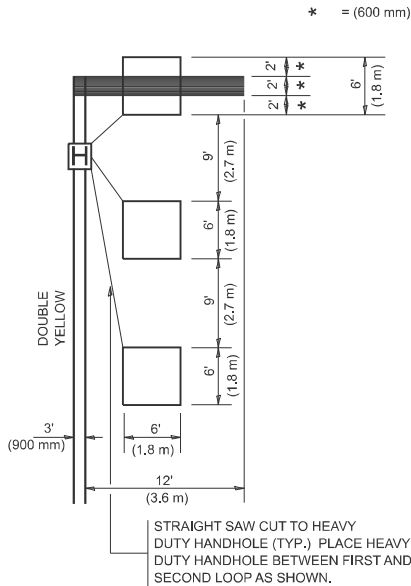


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS
BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

LEFT TURN LANES WITHOUT MEDIANS

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



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

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.

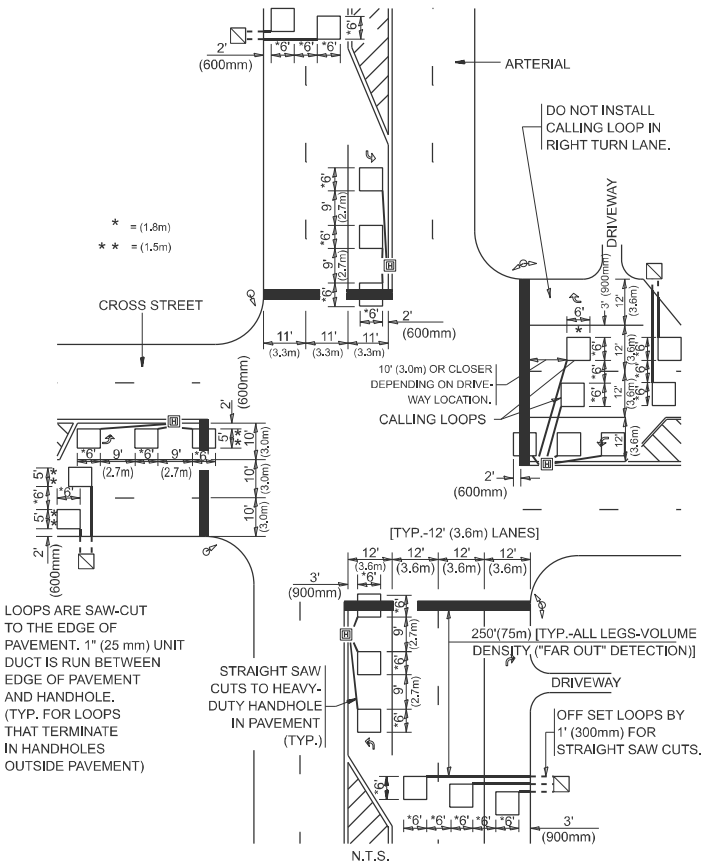
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

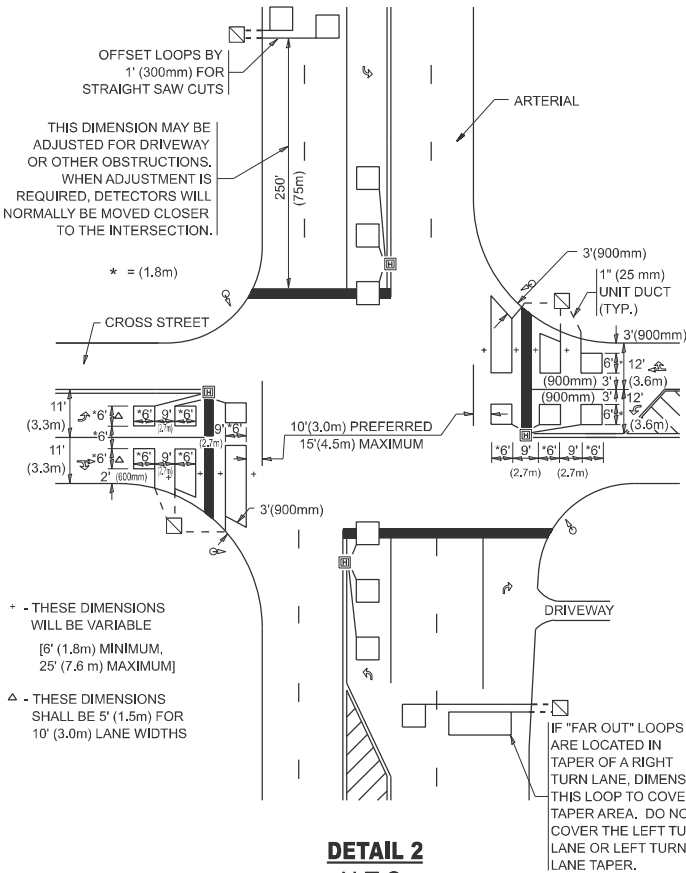
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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



DETAIL 1
N.T.S.

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



DETAIL 2
N.T.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

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

| F.A.P RTE. | SECTION | COUNTY | TOTAL SHEETS | SHEET NO. |
|---------------|--------------|--------------------|-----------------|--------------|
| 345 | 2024-1028-RS | KANE | 29 | 29 |
| TS-07 | | CONTRACT NO. 62X67 | | |
| ILLINOIS | | FED. AID PROJECT | | |