

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	2018-145-1	MCHENRY	75	1
ILLINOIS CONTRACT NO. 62H75				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE VILLAGES OF JOHNSBURG, RICHMOND, AND RINGWOOD

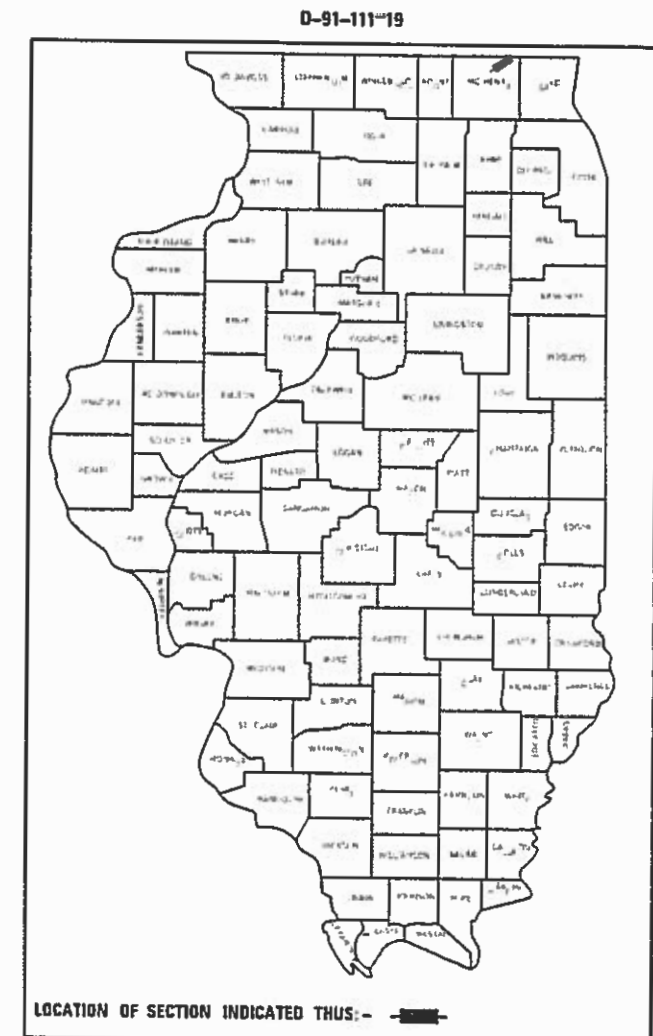
**PROPOSED
HIGHWAY PLANS**

FAP ROUTE 336 (IL 31)
US 12 TO JOHNSBURG RD
SECTION:2018-145-1
PROJECT: NHPP-HFTF(463)
ULTRA-THIN BONDED WEARING COURSE
MCHENRY COUNTY

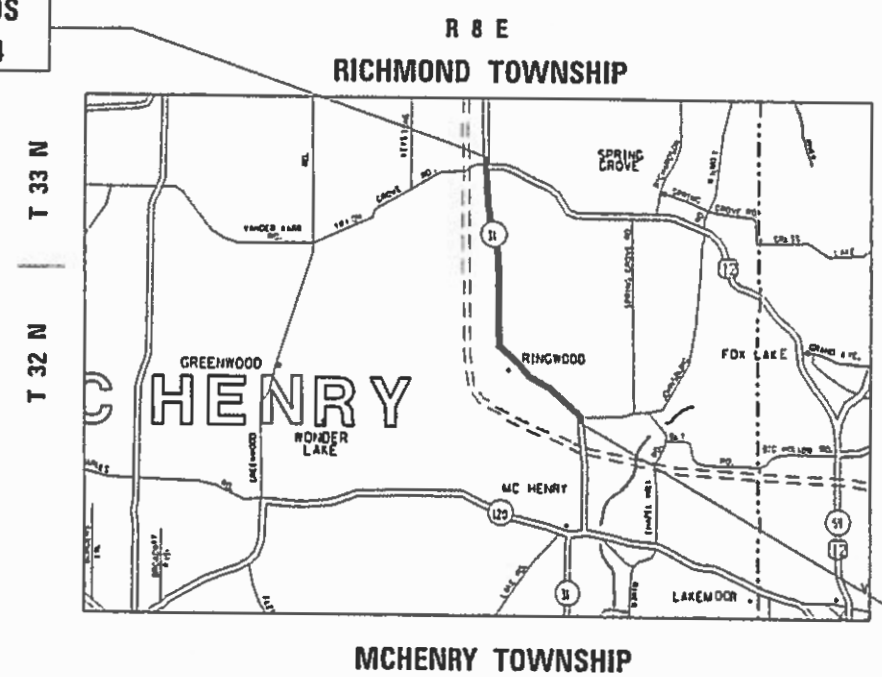
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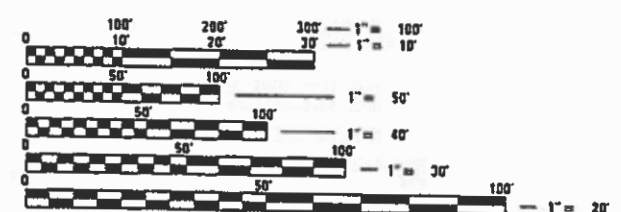
ADT = 11300
SPEED LIMIT = 55 MPH



PROJECT ENDS
STA 319+14



PROJECT BEGINS
STA 14+23



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 (847) 705-4240
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62H75

GROSS LENGTH = 30496 FOOT = 5.776 MILES
NET LENGTH = 30351 FOOT = 5.75 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 24, 2019

Anthony J. Winkler / AS
REGIONAL ENGINEER

Mark P. [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

Paul P. [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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INDEX OF SHEETS

STATE STANDARDS

GENERAL NOTES

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1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
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5	EXISTING AND PROPOSED TYPICAL SECTIONS
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18	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
19	BUTT JOINT AND HMA TAPER DETAILS
20	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
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24	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
25	ARTERIAL ROAD INFORMATION SIGN (TC-22)

STANDARD NO.	DESCRIPTION
000001-07	TYPICAL SYMBOLS, ABBREVIATIONS AND PATTERNS
442201-03	CLASS C AND D PATCHES
604001-04	FRAME AND LIDS, TYPE 1
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-12	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TERMINALS
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) to 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L, 2W, SHORT TME OPERATIONS
701306-04	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATION - DAY ONLY
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701336-07	LANE CLOSURE, 2L, 2W, WORK AREA IN SERIES - 45 MPH OR MORE
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
725001-01	OBJECT AND TERMINAL MARKERS
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGES OF JOHNSBURG, RICHMOND, AND RINGWOOD
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF 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 DIRECTED BY THE ENGINEER.
- THE CONTRACTOR SHALL CONTACT DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT CORY.JUCIUS@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE ENGINEER SHALL CONTACT WALTER CZARNY, ARTERIAL TRAFFIC FIELD ENGINEER, VIA EMAIL AT WALTER.CZARNY@ILLINOIS.GOV. A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- 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.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL PAVEMENT PATCHING, CURB AND GUTTER REMOVAL AND REPLACEMENT, DRAINAGE ADJUSTMENT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 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.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1:3 (V:H).
- DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

FILE NAME =	USER NAME = alawnehab	DESIGNED -	REVISED AA- 3/15/2019	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS, & GENERAL NOTES IL.ROUTE 31 (RICHMOND ROAD) (JOHNSBURG ROAD TO U.S. ROUTE 12.)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			CONTRACT NO. 62H75				
	PLOT DATE = 3/15/2019	DATE -	REVISED -			SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT		

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE					CODE NO	ITEM	UNIT		0005 80% FED 20% STATE				
40600250	RAPID SETTING POLYMER MODIFIED EMULSION	POUND	184641	184641													
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	209	209													
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	1778	1778													
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SQ YD	1240	1240													
44201749	CLASS D PATCHES, TYPE I, 9 INCH	SQ YD	50	50													
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SQ YD	750	750													
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SQ YD	200	200													
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	240	240													
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	1250	1250													
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE I (SPECIAL) TANGENT	EACH	14	14													
63200310	GUARDRAIL REMOVAL	FOOT	700	700													
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	6													
67100100	MOBILIZATION	L SUM	1	1													
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1													
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1													
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1													
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1													
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1													
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	838	838													
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	121348	121348													
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	4453	4453													
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	528	528													
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	427	427													
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	13186	13186													
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	14	14													
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	838	838													
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	121348	121348													

* = SPECIALTY ITEMS

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4453	4453				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	528	528				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	427	427				
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	378	378				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1605	1605				
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	28	28				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	793	793				
X0326129	ULTRA-THIN HOT-MIX ASPHALT SURFACE COURSE	SO YD	128223	128223				
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	500	500				
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	46291	49291				
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4				
Z0034105	MATERIAL TRANSFER DEVICE	TON	4809	4809				

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE				
X4401198	HOT-MIX ASPHALT SURFACE REMOVAL, VARIABLE DEPTH	SQ YD	1623	1623				

* = SPECIALTY ITEMS

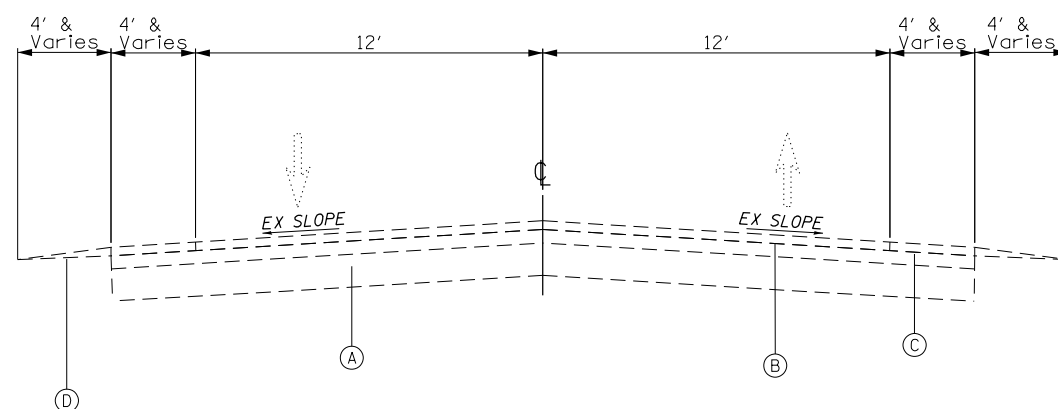
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
SCALE:	SHEET NO.	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	2018-145-1	MCHENRY	25	4
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 62H75	

F.A.P. 336 / IL 31



EXISTING TYPICAL SECTION

STA 14+28 TO STA 319+14

LEGEND - EXISTING:

- (A) CONCRETE PAVEMENT 9"±
- (B) HOT MIX ASPHALT SURFACE 3"±
- (C) HOT MIX ASPHALT SHOULDER
- (D) AGGREGATE SHOULDER, TYPE B

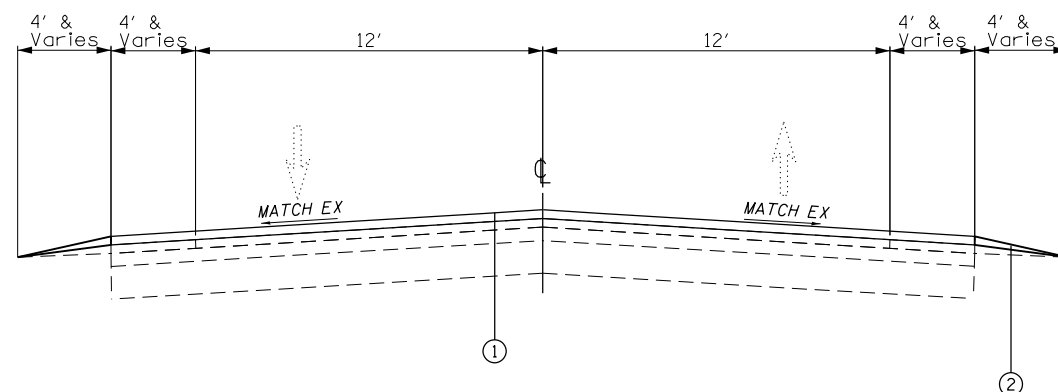
LEGEND - PROPOSED

- ① ULTRA-THIN HMA SURFACE COURSE, MIX D, TYPE B, 75 LBS/SY
- ② PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B

NOTES:

- 1) THE CONTRACTOR SHALL PATCH FIRST.
- 2) SEE ULTRA-THIN BONDED WEARING COURSE SPECIAL PROVISION FOR ULTRA-THIN HMA SURFACE COURSE.

F.A.P. 336 / IL 31



PROPOSED TYPICAL SECTION

STA 14+28 TO STA 319+14

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR Voids @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
		PATCHING
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% AT 70 GYR.	QC/QA
HMA REPLACEMENT OVER PATCHES (HMA SURFACE COURSE, MIX "D", N70 IL 9.5 mm)	4% AT 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)		

NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD /IN.

NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

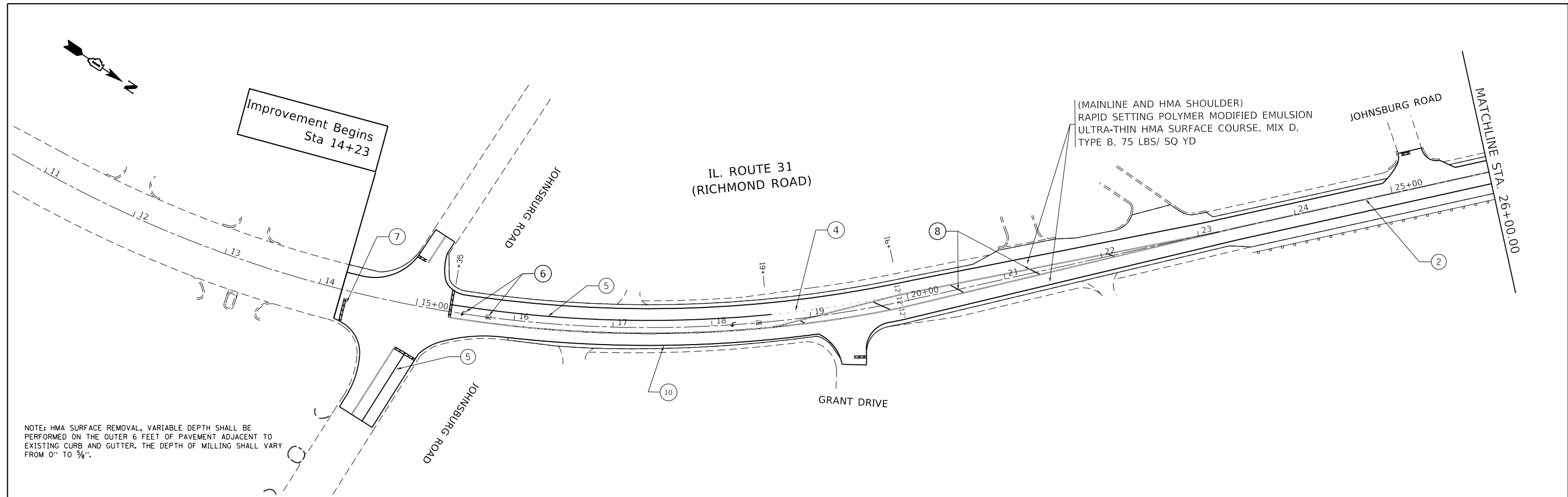
NOTE 3: QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL SECTION			
IL. ROUTE 31 (RICHMOND ROAD) (JOHNSBURG ROAD TO U.S. ROUTE 12.)			
SCALE:	SHEET 5 OF 25 SHEETS	STA. TO STA.	F.A.P. RTE. SECTION COUNTY TOTAL SHEETS SHEET NO.
			336 2018-145-1 MCHENRY 25 5
			ILLINOIS FED. AID PROJECT CONTRACT NO. 62H75

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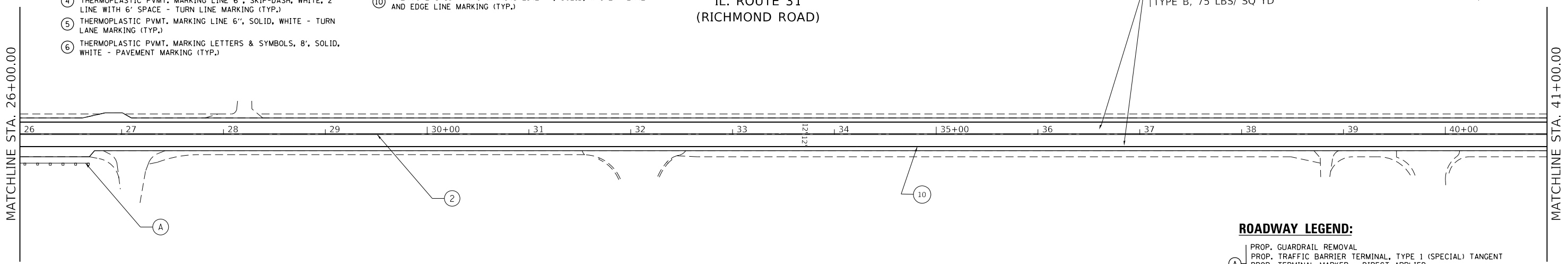
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PROPOSED PAVEMENT MARKINGS LEGEND

- ① THERMOPLASTIC PVMT. MARKING LINE 4", SKIP-DASH, YELLOW, 10' LINE WITH 30' SPACE, 5/2" C-C - NO PASSING ZONE LINES (TYP.)
- ② THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 2 @ 4", 11" C-C - LANE AND EDGE LINE/PAINTED MEDIAN MARKING (TYP.)
- ③ THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 5/2" C-C - NO PASSING ZONE LINES (TYP.)
- ④ THERMOPLASTIC PVMT. MARKING LINE 6", SKIP-DASH, WHITE, 2' LINE WITH 6' SPACE - TURN LINE MARKING (TYP.)
- ⑤ THERMOPLASTIC PVMT. MARKING LINE 6", SOLID, WHITE - TURN LANE MARKING (TYP.)
- ⑥ THERMOPLASTIC PVMT. MARKING LETTERS & SYMBOLS, 8", SOLID, WHITE - PAVEMENT MARKING (TYP.)
- ⑦ THERMOPLASTIC PVMT. MARKING LINE 24", SOLID, WHITE - STOP LINES (TYP.)
- ⑧ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, YELLOW - PAINTED MEDIAN MARKING (TYP.)
- ⑨ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, WHITE - SHOULDER
- ⑩ THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, WHITE - LANE AND EDGE LINE MARKING (TYP.)

IL. ROUTE 31 (RICHMOND ROAD)



ROADWAY LEGEND:

- Ⓐ PROP. GUARDRAIL REMOVAL
- Ⓐ PROP. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- Ⓐ PROP. TERMINAL MARKER - DIRECT APPLIED
- Ⓐ PROP. GUARDRAIL REFLECTORS, TYPE A

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN	
IL. ROUTE 31 (RICHMOND ROAD) (JOHNSBURG ROAD TO U.S. ROUTE 12.)	
SCALE: 1"= 50'	SHEET 6 OF 25 SHEETS STA. TO STA.

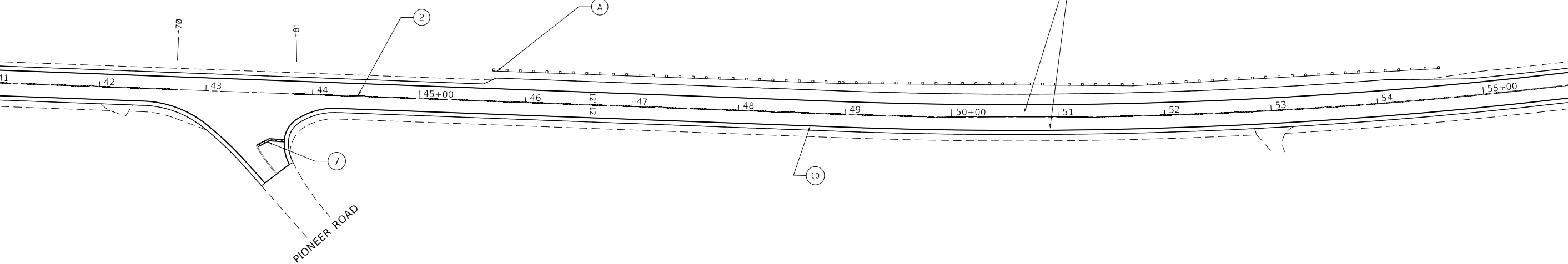
F.A.P. RTE. 336	SECTION 2018-145-I	COUNTY MCHENRY	TOTAL SHEETS 25	SHEET NO. 6
			CONTRACT NO. 62H75	
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 41+00.00

MATCHLINE STA. 56+00.00

IL. ROUTE 31
(RICHMOND ROAD)

(MAINLINE AND HMA SHOULDER)
RAPID SETTING POLYMER MODIFIED EMULSION
ULTRA-THIN HMA SURFACE COURSE, MIX D,
TYPE B, 75 LBS/ SQ YD



NOTE: HMA SURFACE REMOVAL, VARIABLE DEPTH SHALL BE PERFORMED ON THE OUTER 6 FEET OF PAVEMENT ADJACENT TO EXISTING CURB AND GUTTER. THE DEPTH OF MILLING SHALL VARY FROM 0" TO 5/8".

PROPOSED PAVEMENT MARKINGS LEGEND

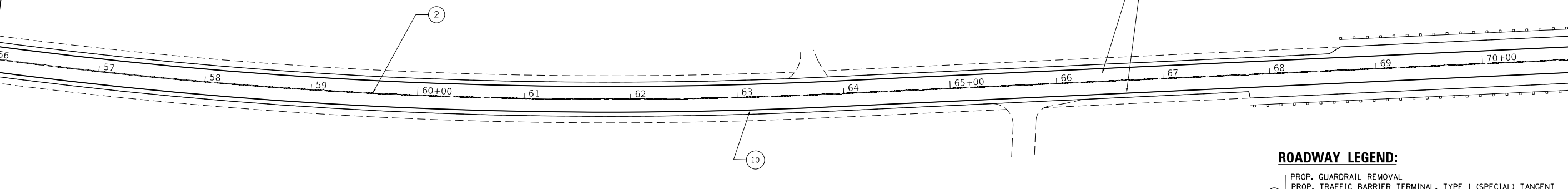
- ① THERMOPLASTIC PVMT. MARKING LINE 4", SKIP-DASH, YELLOW, 10' LINE WITH 30' SPACE, 5/2" C-C - NO PASSING ZONE LINES (TYP.)
- ② THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 2 @ 4", 11" C-C - LANE AND EDGE LINE/PAINTED MEDIAN MARKING (TYP.)
- ③ THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 5/2" C-C - NO PASSING ZONE LINES (TYP.)
- ④ THERMOPLASTIC PVMT. MARKING LINE 6", SKIP-DASH, WHITE, 2' LINE WITH 6' SPACE - TURN LINE MARKING (TYP.)
- ⑤ THERMOPLASTIC PVMT. MARKING LINE 6", SOLID, WHITE - TURN LANE MARKING (TYP.)
- ⑥ THERMOPLASTIC PVMT. MARKING LETTERS & SYMBOLS, 8', SOLID, WHITE - PAVEMENT MARKING (TYP.)
- ⑦ THERMOPLASTIC PVMT. MARKING LINE 24", SOLID, WHITE - STOP LINES (TYP.)
- ⑧ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, YELLOW - PAINTED MEDIAN MARKING (TYP.)
- ⑨ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, WHITE - SHOULDER
- ⑩ THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, WHITE - LANE AND EDGE LINE MARKING (TYP.)

MATCHLINE STA. 56+00.00

MATCHLINE STA. 71+00.00

IL. ROUTE 31
(RICHMOND ROAD)

(MAINLINE AND HMA SHOULDER)
RAPID SETTING POLYMER MODIFIED EMULSION
ULTRA-THIN HMA SURFACE COURSE, MIX D,
TYPE B, 75 LBS/ SQ YD



ROADWAY LEGEND:

- PROP. GUARDRAIL REMOVAL
- PROP. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- PROP. TERMINAL MARKER - DIRECT APPLIED
- PROP. GUARDRAIL REFLECTORS, TYPE A

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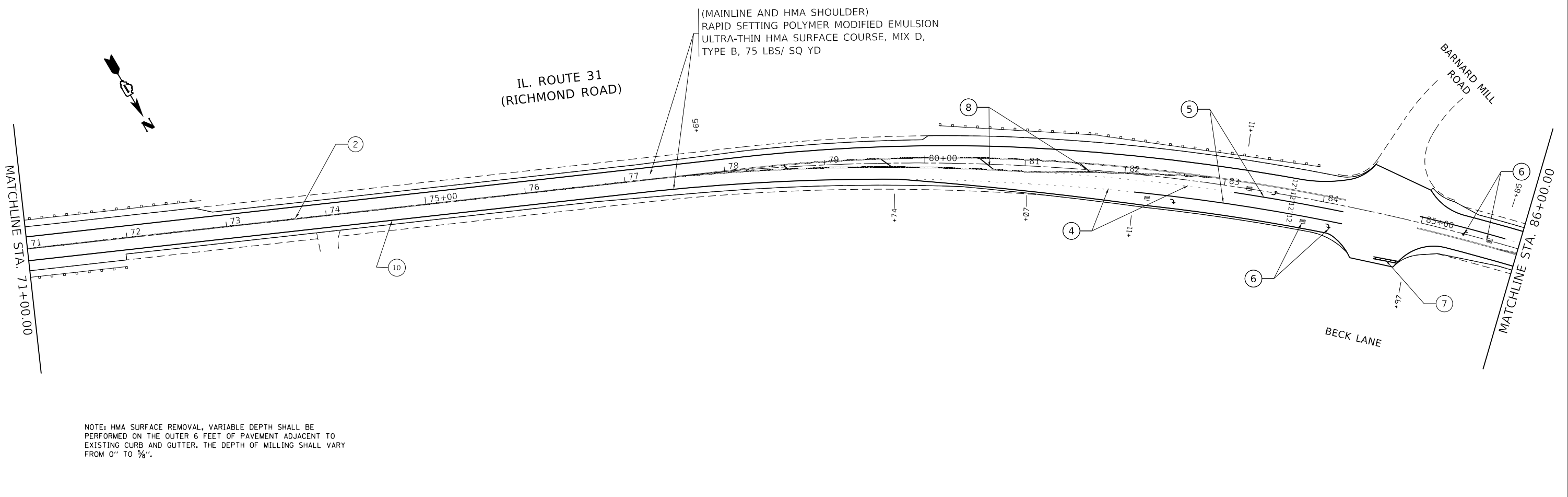
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	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
IL. ROUTE 31 (RICHMOND ROAD) (JOHNSBURG ROAD TO U.S. ROUTE 12.)

SCALE: 1"= 50' SHEET 7 OF 25 SHEETS STA. TO STA.

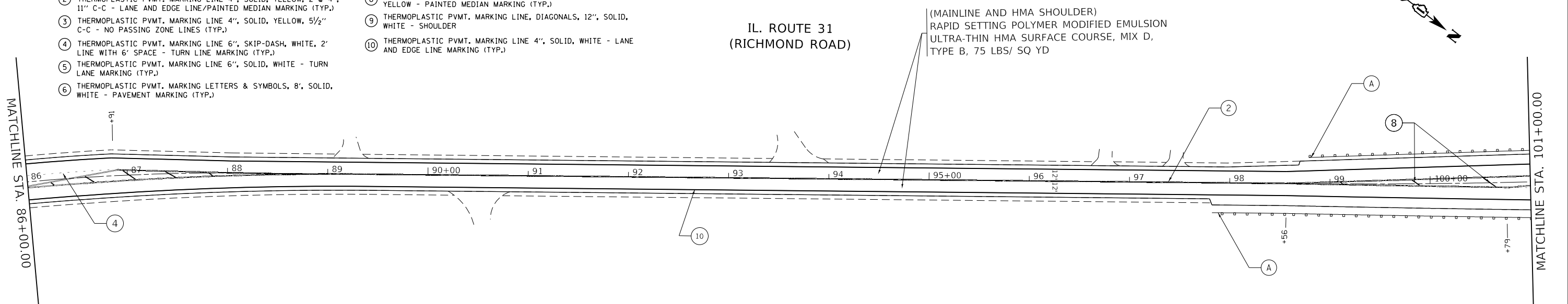
F.A.P. RTE. 336	SECTION 2018-145-1	COUNTY MCHENRY	TOTAL SHEETS 25	SHEET NO. 7
CONTRACT NO. 62H75			ILLINOIS FED. AID PROJECT	



NOTE: HMA SURFACE REMOVAL, VARIABLE DEPTH SHALL BE PERFORMED ON THE OUTER 6 FEET OF PAVEMENT ADJACENT TO EXISTING CURB AND GUTTER. THE DEPTH OF MILLING SHALL VARY FROM 0" TO 5/8".

PROPOSED PAVEMENT MARKINGS LEGEND

- ① THERMOPLASTIC PVMT. MARKING LINE 4", SKIP-DASH, YELLOW, 10' LINE WITH 30' SPACE, 5 1/2" C-C - NO PASSING ZONE LINES (TYP.)
- ② THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 2 @ 4", 11" C-C - LANE AND EDGE LINE/PAINTED MEDIAN MARKING (TYP.)
- ③ THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 5 1/2" C-C - NO PASSING ZONE LINES (TYP.)
- ④ THERMOPLASTIC PVMT. MARKING LINE 6", SKIP-DASH, WHITE, 2' LINE WITH 6' SPACE - TURN LINE MARKING (TYP.)
- ⑤ THERMOPLASTIC PVMT. MARKING LINE 6", SOLID, WHITE - TURN LANE MARKING (TYP.)
- ⑥ THERMOPLASTIC PVMT. MARKING LETTERS & SYMBOLS, 8", SOLID, WHITE - PAVEMENT MARKING (TYP.)
- ⑦ THERMOPLASTIC PVMT. MARKING LINE 24", SOLID, WHITE - STOP LINES (TYP.)
- ⑧ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, YELLOW - PAINTED MEDIAN MARKING (TYP.)
- ⑨ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, WHITE - SHOULDER
- ⑩ THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, WHITE - LANE AND EDGE LINE MARKING (TYP.)



- ROADWAY LEGEND:**
- Ⓐ PROP. GUARDRAIL REMOVAL
 - Ⓐ PROP. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 - Ⓐ PROP. TERMINAL MARKER - DIRECT APPLIED
 - Ⓐ PROP. GUARDRAIL REFLECTORS, TYPE A

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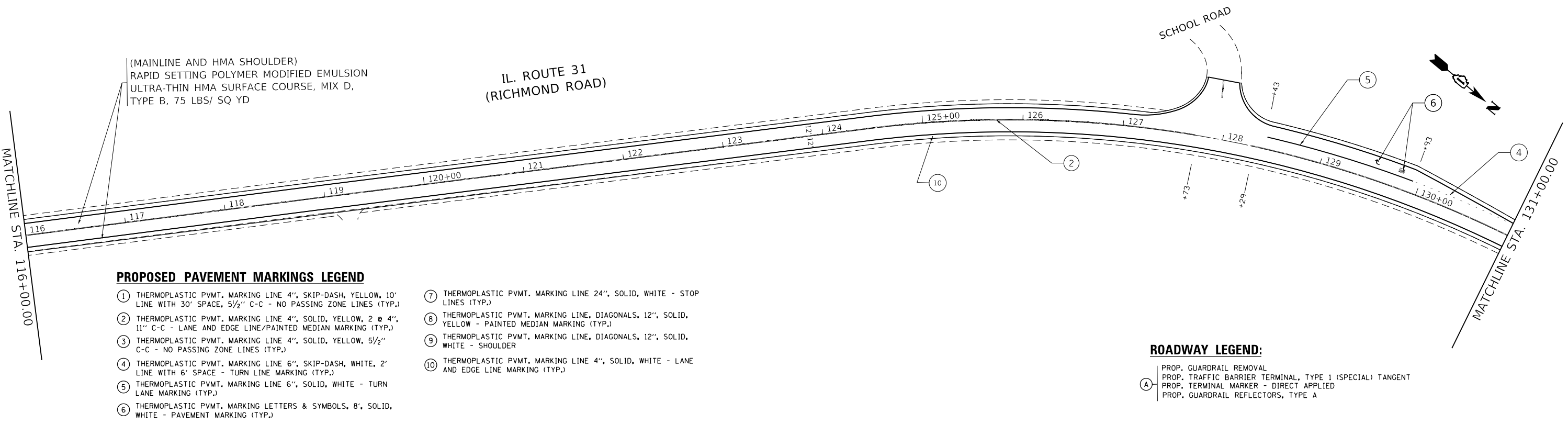
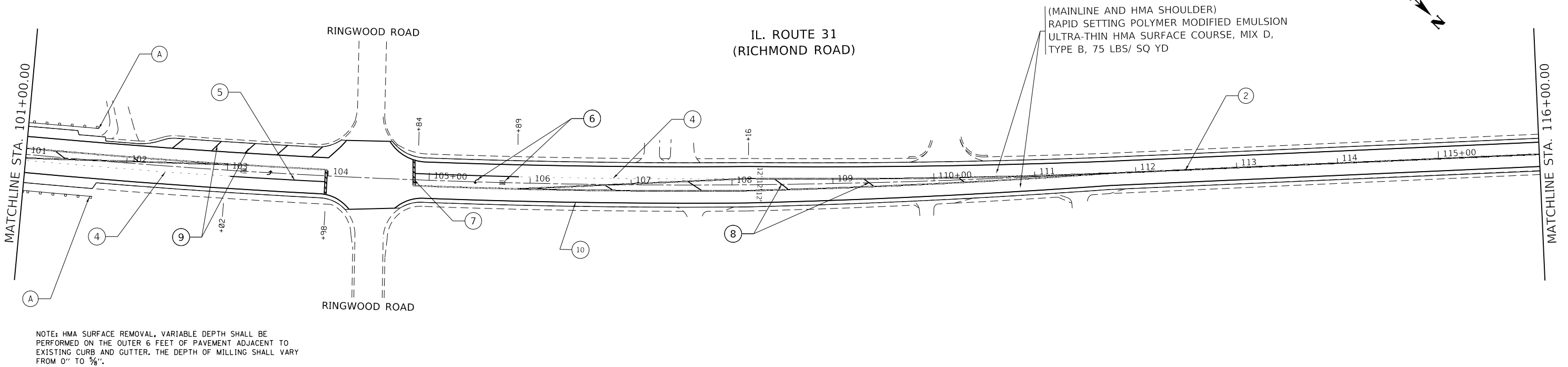
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN

IL. ROUTE 31 (RICHMOND ROAD) (JOHNSBURG ROAD TO U.S. ROUTE 12.)

SCALE: 1"= 50' SHEET 8 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	2018-145-1	MCHENRY	25	8
			CONTRACT NO. 62H75	
ILLINOIS FED. AID PROJECT				



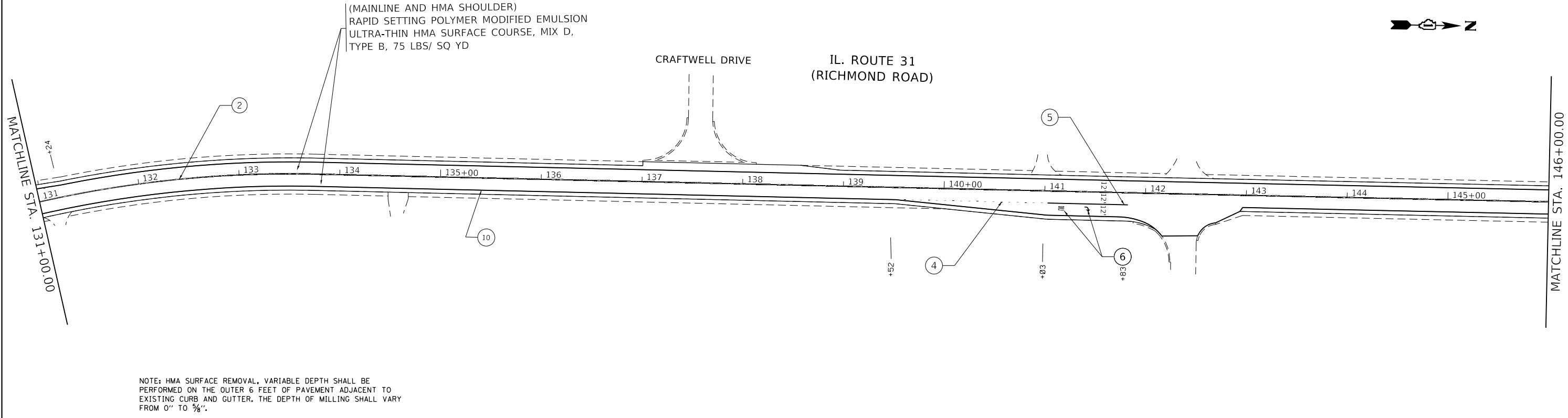
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

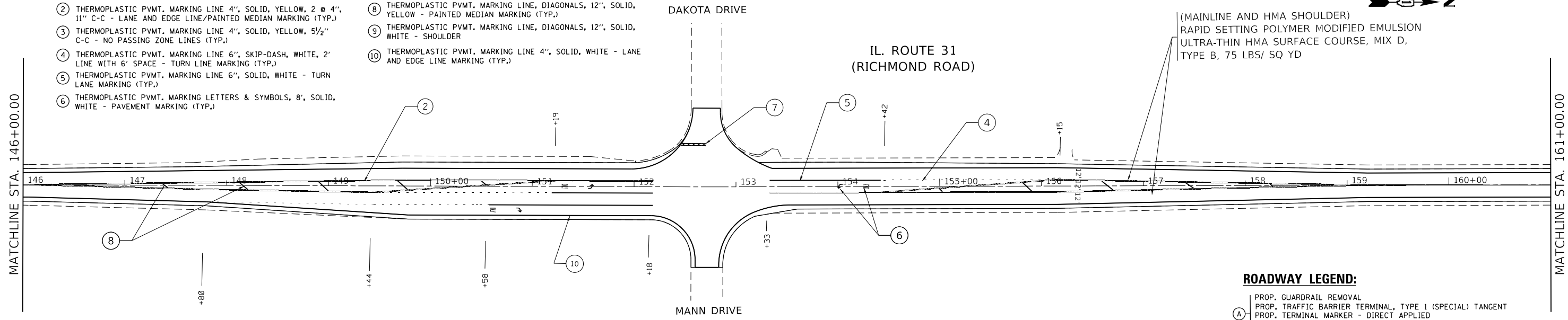
ROADWAY PLAN	
IL. ROUTE 31 (RICHMOND ROAD) (JOHNSBURG ROAD TO U.S. ROUTE 12.)	
SCALE: 1" = 50'	SHEET 9 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 336	SECTION 2018-145-I	COUNTY MCHENRY	TOTAL SHEETS 25	SHEET NO. 9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62H75	



PROPOSED PAVEMENT MARKINGS LEGEND

- ① THERMOPLASTIC PVMT. MARKING LINE 4", SKIP-DASH, YELLOW, 10' LINE WITH 30' SPACE, 5 1/2" C-C - NO PASSING ZONE LINES (TYP.)
- ② THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 2 @ 4", 11" C-C - LANE AND EDGE LINE/PAINTED MEDIAN MARKING (TYP.)
- ③ THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 5 1/2" C-C - NO PASSING ZONE LINES (TYP.)
- ④ THERMOPLASTIC PVMT. MARKING LINE 6", SKIP-DASH, WHITE, 2' LINE WITH 6' SPACE - TURN LINE MARKING (TYP.)
- ⑤ THERMOPLASTIC PVMT. MARKING LINE 6", SOLID, WHITE - TURN LANE MARKING (TYP.)
- ⑥ THERMOPLASTIC PVMT. MARKING LETTERS & SYMBOLS, 8", SOLID, WHITE - PAVEMENT MARKING (TYP.)
- ⑦ THERMOPLASTIC PVMT. MARKING LINE 24", SOLID, WHITE - STOP LINES (TYP.)
- ⑧ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, YELLOW - PAINTED MEDIAN MARKING (TYP.)
- ⑨ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, WHITE - SHOULDER
- ⑩ THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, WHITE - LANE AND EDGE LINE MARKING (TYP.)



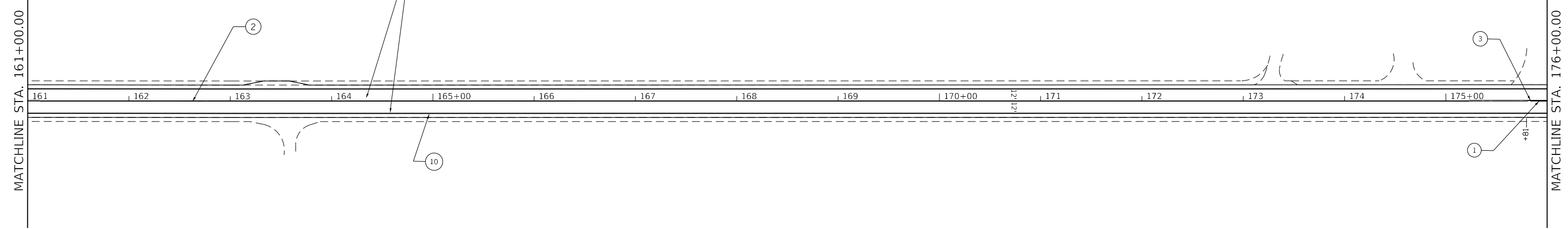
- ROADWAY LEGEND:**
- Ⓐ PROP. GUARDRAIL REMOVAL
 - Ⓐ PROP. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 - Ⓐ PROP. TERMINAL MARKER - DIRECT APPLIED
 - Ⓐ PROP. GUARDRAIL REFLECTORS, TYPE A

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USER NAME = alawnehab	DESIGNED -	REVISED AA - 3/15/2019	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ROADWAY PLAN				F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -		IL. ROUTE 31 (RICHMOND ROAD) (JOHNSBURG ROAD TO U.S. ROUTE 12.)	336	2018-145-I	MCHENRY	25	10			
PLOT DATE = 3/15/2019	CHECKED -	REVISED -		SCALE: 1" = 50'	SHEET 10	OF 25 SHEETS	STA. TO STA.	CONTRACT NO. 62H75				
	DATE -	REVISED -						ILLINOIS	FED. AID PROJECT			



IL. ROUTE 31
(RICHMOND ROAD)

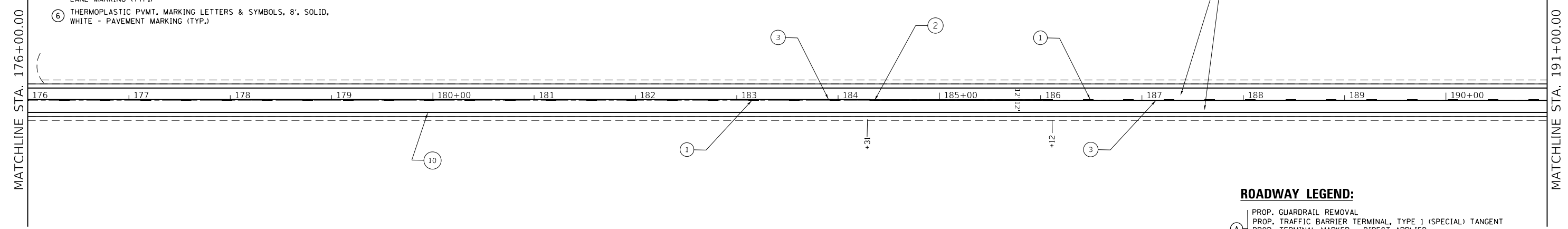


NOTE: HMA SURFACE REMOVAL, VARIABLE DEPTH SHALL BE PERFORMED ON THE OUTER 6 FEET OF PAVEMENT ADJACENT TO EXISTING CURB AND GUTTER. THE DEPTH OF MILLING SHALL VARY FROM 0" TO 3/8".

PROPOSED PAVEMENT MARKINGS LEGEND

- ① THERMOPLASTIC PVMT. MARKING LINE 4", SKIP-DASH, YELLOW, 10' LINE WITH 30' SPACE, 5/2" C-C - NO PASSING ZONE LINES (TYP.)
- ② THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 2 @ 4", 11" C-C - LANE AND EDGE LINE/PAINTED MEDIAN MARKING (TYP.)
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- ④ THERMOPLASTIC PVMT. MARKING LINE 6", SKIP-DASH, WHITE, 2' LINE WITH 6' SPACE - TURN LINE MARKING (TYP.)
- ⑤ THERMOPLASTIC PVMT. MARKING LINE 6", SOLID, WHITE - TURN LANE MARKING (TYP.)
- ⑥ THERMOPLASTIC PVMT. MARKING LETTERS & SYMBOLS, 8", SOLID, WHITE - PAVEMENT MARKING (TYP.)
- ⑦ THERMOPLASTIC PVMT. MARKING LINE 24", SOLID, WHITE - STOP LINES (TYP.)
- ⑧ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, YELLOW - PAINTED MEDIAN MARKING (TYP.)
- ⑨ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, WHITE - SHOULDER
- ⑩ THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, WHITE - LANE AND EDGE LINE MARKING (TYP.)

IL. ROUTE 31
(RICHMOND ROAD)



- ROADWAY LEGEND:**
- Ⓐ PROP. GUARDRAIL REMOVAL
 - PROP. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 - PROP. TERMINAL MARKER - DIRECT APPLIED
 - PROP. GUARDRAIL REFLECTORS, TYPE A

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PLOT DATE = 3/15/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
IL. ROUTE 31 (RICHMOND ROAD) (JOHNSBURG ROAD TO U.S. ROUTE 12.)

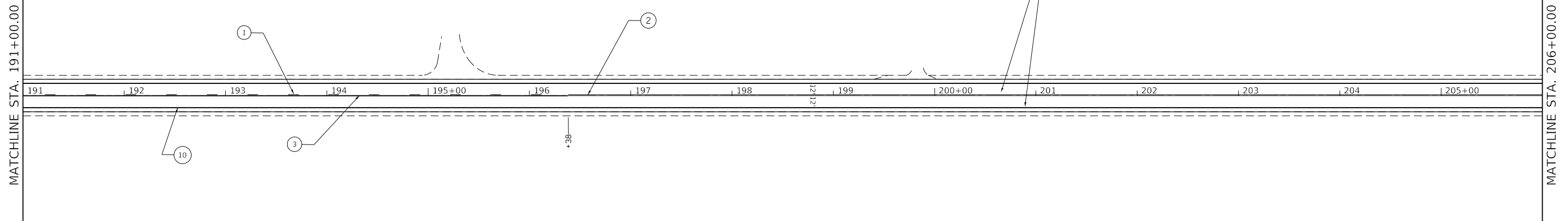
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F.A.P. RTE. 336	SECTION 2018-145-I	COUNTY MCHENRY	TOTAL SHEETS 25	SHEET NO. 11
CONTRACT NO. 62H75			ILLINOIS FED. AID PROJECT	



IL. ROUTE 31
(RICHMOND ROAD)

(MAINLINE AND HMA SHOULDER)
RAPID SETTING POLYMER MODIFIED EMULSION
ULTRA-THIN HMA SURFACE COURSE, MIX D,
TYPE B, 75 LBS/ SQ YD



NOTE: HMA SURFACE REMOVAL, VARIABLE DEPTH SHALL BE PERFORMED ON THE OUTER 6 FEET OF PAVEMENT ADJACENT TO EXISTING CURB AND GUTTER. THE DEPTH OF MILLING SHALL VARY FROM 0" TO 5/8".

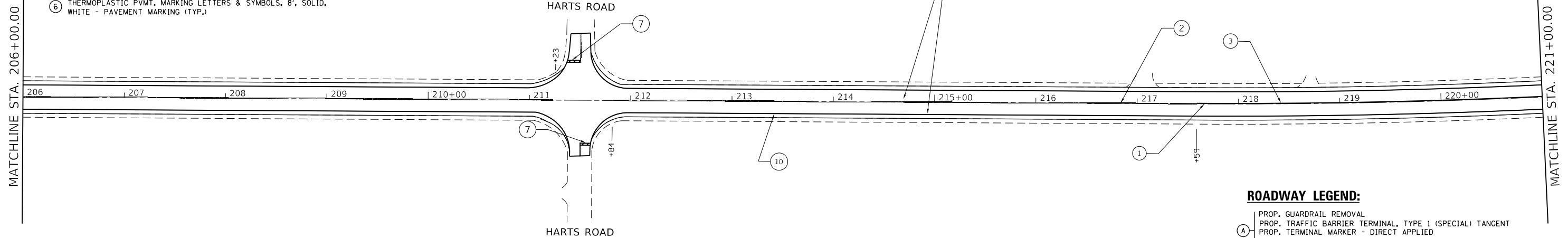
PROPOSED PAVEMENT MARKINGS LEGEND

- ① THERMOPLASTIC PVMT. MARKING LINE 4", SKIP-DASH, YELLOW, 10' LINE WITH 30' SPACE, 5/2" C-C - NO PASSING ZONE LINES (TYP.)
- ② THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 2 @ 4", 11" C-C - LANE AND EDGE LINE/PAINTED MEDIAN MARKING (TYP.)
- ③ THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 5/2" C-C - NO PASSING ZONE LINES (TYP.)
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- ⑤ THERMOPLASTIC PVMT. MARKING LINE 6", SOLID, WHITE - TURN LANE MARKING (TYP.)
- ⑥ THERMOPLASTIC PVMT. MARKING LETTERS & SYMBOLS, 8', SOLID, WHITE - PAVEMENT MARKING (TYP.)
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- ⑩ THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, WHITE - LANE AND EDGE LINE MARKING (TYP.)



IL. ROUTE 31
(RICHMOND ROAD)

(MAINLINE AND HMA SHOULDER)
RAPID SETTING POLYMER MODIFIED EMULSION
ULTRA-THIN HMA SURFACE COURSE, MIX D,
TYPE B, 75 LBS/ SQ YD



ROADWAY LEGEND:

- Ⓐ PROP. GUARDRAIL REMOVAL
- PROP. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- PROP. TERMINAL MARKER - DIRECT APPLIED
- PROP. GUARDRAIL REFLECTORS, TYPE A

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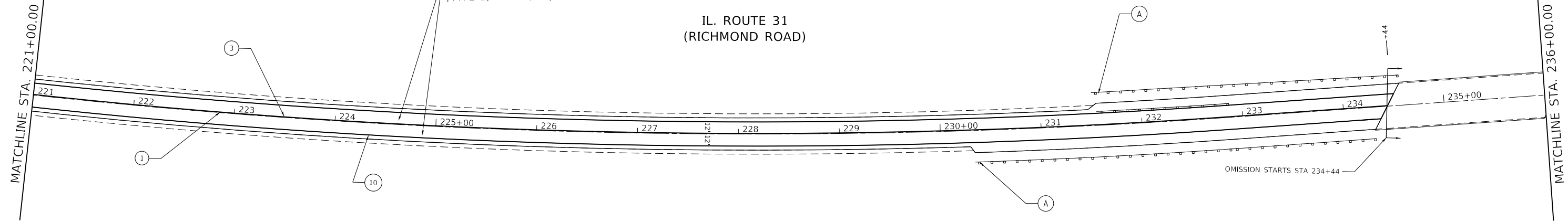
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
IL. ROUTE 31 (RICHMOND ROAD) (JOHNSBURG ROAD TO U.S. ROUTE 12.)

SCALE: 1"= 50' SHEET 12 OF 25 SHEETS STA. TO STA.

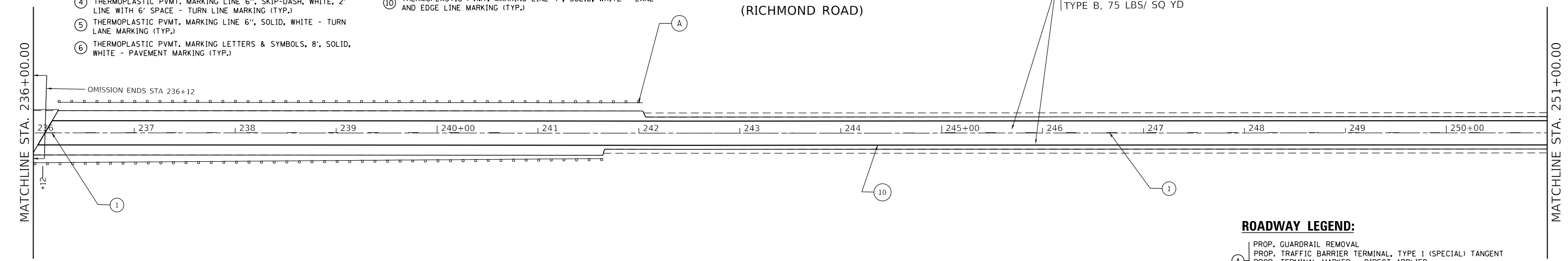
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CONTRACT NO. 62H75			ILLINOIS FED. AID PROJECT	



NOTE: HMA SURFACE REMOVAL, VARIABLE DEPTH SHALL BE PERFORMED ON THE OUTER 6 FEET OF PAVEMENT ADJACENT TO EXISTING CURB AND GUTTER. THE DEPTH OF MILLING SHALL VARY FROM 0" TO 5/8".

PROPOSED PAVEMENT MARKINGS LEGEND

- ① THERMOPLASTIC PVMT. MARKING LINE 4", SKIP-DASH, YELLOW, 10' LINE WITH 30' SPACE, 5/2" C-C - NO PASSING ZONE LINES (TYP.)
- ② THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 2 @ 4", 11" C-C - LANE AND EDGE LINE/PAINTED MEDIAN MARKING (TYP.)
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- ④ THERMOPLASTIC PVMT. MARKING LINE 6", SKIP-DASH, WHITE, 2' LINE WITH 6' SPACE - TURN LINE MARKING (TYP.)
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- ⑥ THERMOPLASTIC PVMT. MARKING LETTERS & SYMBOLS, 8", SOLID, WHITE - PAVEMENT MARKING (TYP.)
- ⑦ THERMOPLASTIC PVMT. MARKING LINE 24", SOLID, WHITE - STOP LINES (TYP.)
- ⑧ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, YELLOW - PAINTED MEDIAN MARKING (TYP.)
- ⑨ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, WHITE - SHOULDER
- ⑩ THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, WHITE - LANE AND EDGE LINE MARKING (TYP.)



- ROADWAY LEGEND:**
- (A) PROP. GUARDRAIL REMOVAL
 - PROP. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
 - PROP. TERMINAL MARKER - DIRECT APPLIED
 - PROP. GUARDRAIL REFLECTORS, TYPE A

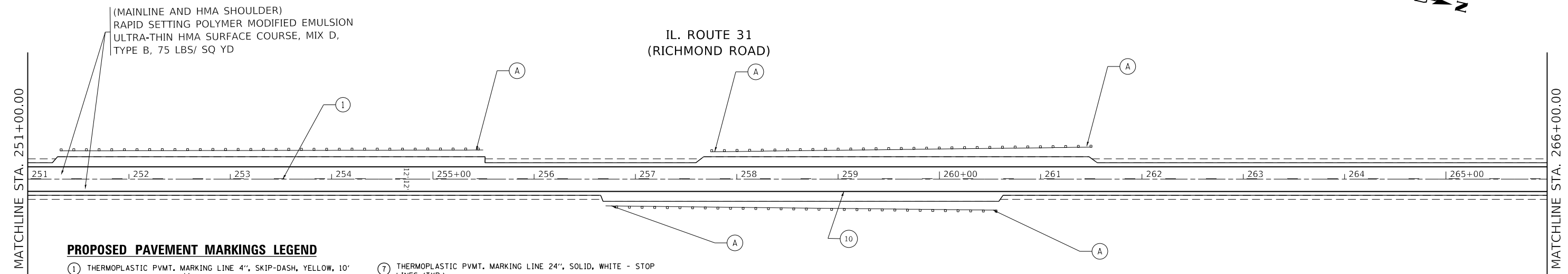
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN
IL. ROUTE 31 (RICHMOND ROAD) (JOHNSBURG ROAD TO U.S. ROUTE 12.)
SCALE: 1"= 50' SHEET 13 OF 25 SHEETS STA. TO STA.

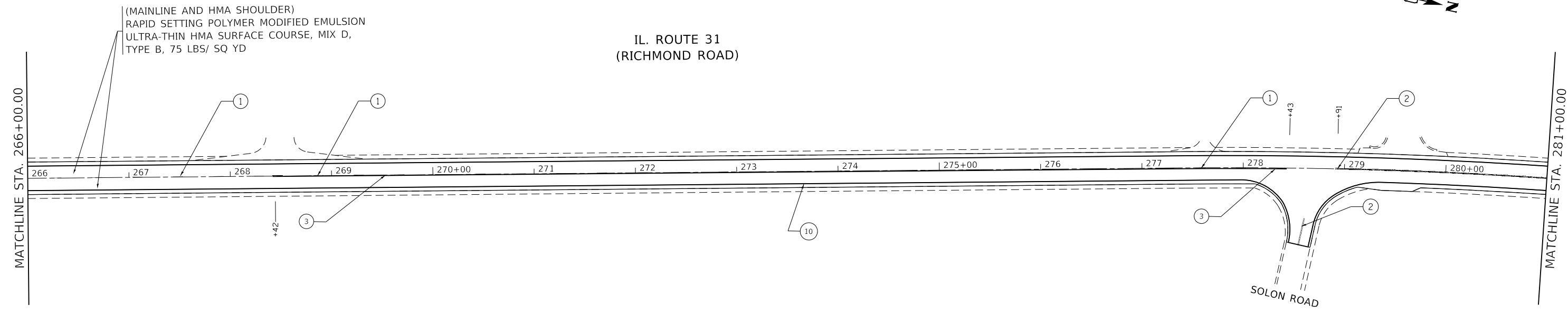
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CONTRACT NO. 62H75			ILLINOIS FED. AID PROJECT	



PROPOSED PAVEMENT MARKINGS LEGEND

- ① THERMOPLASTIC PVMT. MARKING LINE 4", SKIP-DASH, YELLOW, 10' LINE WITH 30' SPACE, 5 1/2" C-C - NO PASSING ZONE LINES (TYP.)
- ② THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 2 @ 4", 11" C-C - LANE AND EDGE LINE/PAINTED MEDIAN MARKING (TYP.)
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- ④ THERMOPLASTIC PVMT. MARKING LINE 6", SKIP-DASH, WHITE, 2' LINE WITH 6' SPACE - TURN LINE MARKING (TYP.)
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- ⑨ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, WHITE - SHOULDER
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NOTE: HMA SURFACE REMOVAL, VARIABLE DEPTH SHALL BE PERFORMED ON THE OUTER 6 FEET OF PAVEMENT ADJACENT TO EXISTING CURB AND CUTTER. THE DEPTH OF MILLING SHALL VARY FROM 0" TO 3/8".



ROADWAY LEGEND:

- ① PROP. GUARDRAIL REMOVAL
- ② PROP. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- ③ PROP. TERMINAL MARKER - DIRECT APPLIED
- ④ PROP. GUARDRAIL REFLECTORS, TYPE A

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

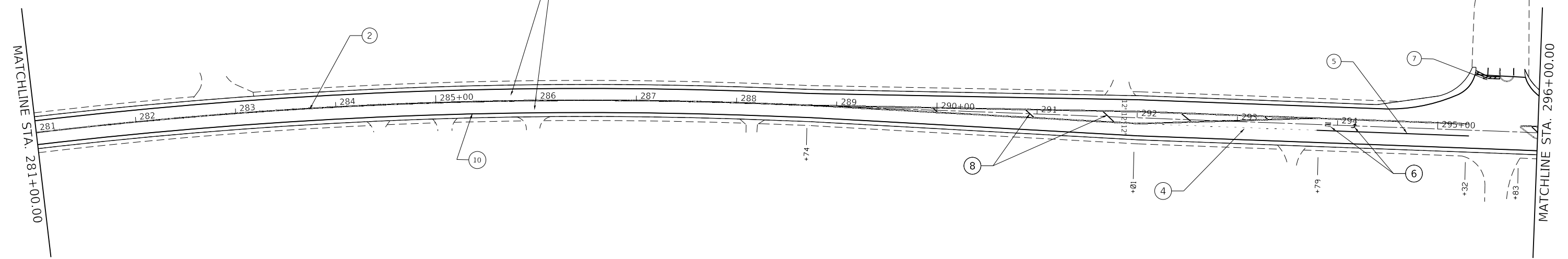
ROADWAY PLAN	
IL. ROUTE 31 (RICHMOND ROAD) (JOHNSBURG ROAD TO U.S. ROUTE 12.)	
SCALE: 1"= 50'	SHEET 14 OF 25 SHEETS
STA.	TO STA.

F.A.P. RTE. 336	SECTION 2018-145-1	COUNTY MCHENRY	TOTAL SHEETS 25	SHEET NO. 14
CONTRACT NO. 62H75				
ILLINOIS FED. AID PROJECT				



(MAINLINE AND HMA SHOULDER)
RAPID SETTING POLYMER MODIFIED EMULSION
ULTRA-THIN HMA SURFACE COURSE, MIX D,
TYPE B, 75 LBS/ SQ YD

IL. ROUTE 31
(RICHMOND ROAD)



NOTE: HMA SURFACE REMOVAL, VARIABLE DEPTH SHALL BE PERFORMED ON THE OUTER 6 FEET OF PAVEMENT ADJACENT TO EXISTING CURB AND GUTTER. THE DEPTH OF MILLING SHALL VARY FROM 0" TO 3/8".

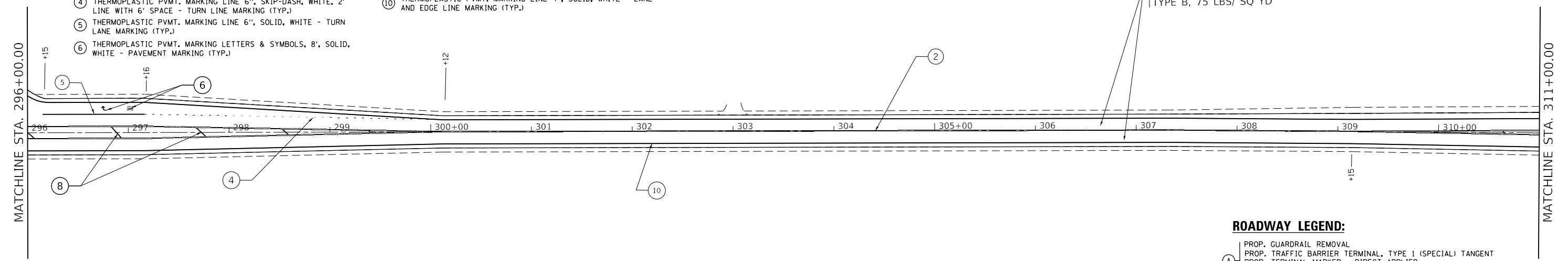
PROPOSED PAVEMENT MARKINGS LEGEND

- ① THERMOPLASTIC PVMT. MARKING LINE 4", SKIP-DASH, YELLOW, 10' LINE WITH 30' SPACE, 5/2" C-C - NO PASSING ZONE LINES (TYP.)
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- ⑤ THERMOPLASTIC PVMT. MARKING LINE 6", SOLID, WHITE - TURN LANE MARKING (TYP.)
- ⑥ THERMOPLASTIC PVMT. MARKING LETTERS & SYMBOLS, 8', SOLID, WHITE - PAVEMENT MARKING (TYP.)
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IL. ROUTE 31
(RICHMOND ROAD)

(MAINLINE AND HMA SHOULDER)
RAPID SETTING POLYMER MODIFIED EMULSION
ULTRA-THIN HMA SURFACE COURSE, MIX D,
TYPE B, 75 LBS/ SQ YD



ROADWAY LEGEND:

- PROP. GUARDRAIL REMOVAL
- PROP. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- PROP. TERMINAL MARKER - DIRECT APPLIED
- PROP. GUARDRAIL REFLECTORS, TYPE A

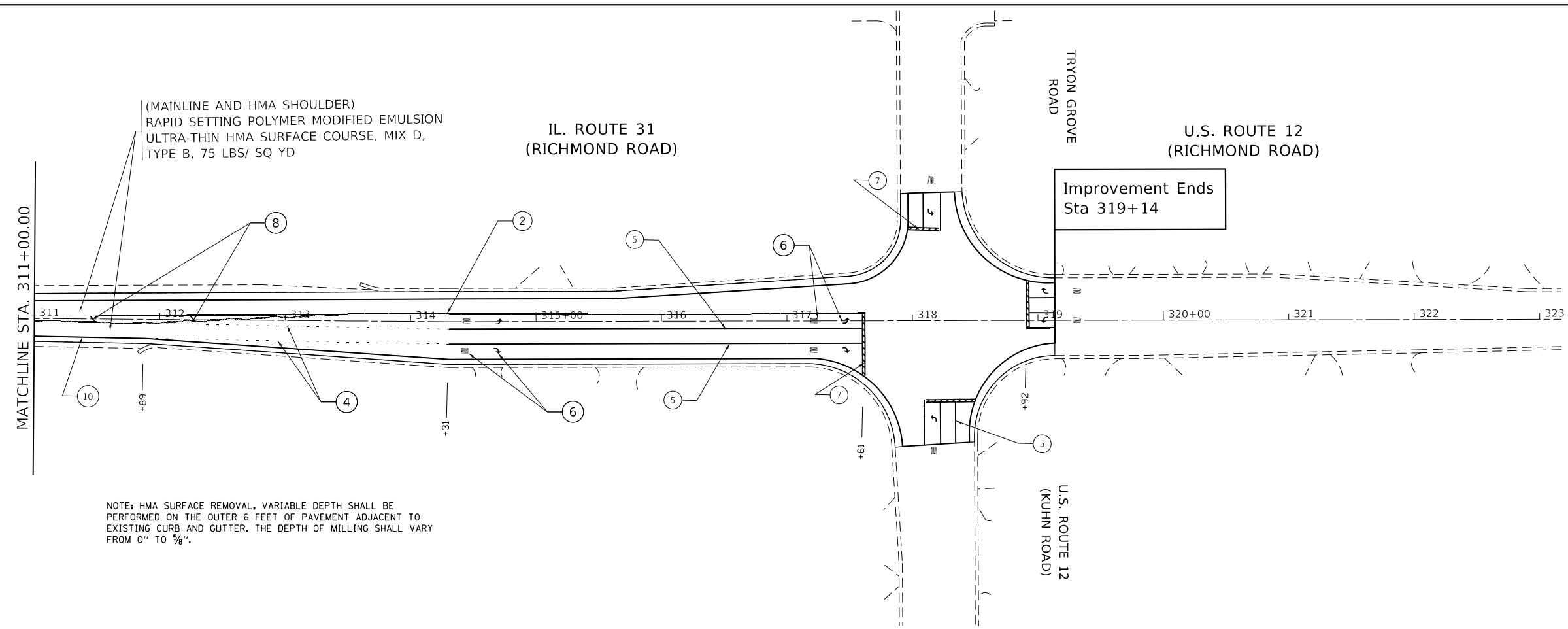
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PLOT DATE = 3/15/2019	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
IL. ROUTE 31 (RICHMOND ROAD) (JOHNSBURG ROAD TO U.S. ROUTE 12.)
SCALE: 1"= 50' SHEET 15 OF 25 SHEETS STA. TO STA.

F.A.P. RTE. 336	SECTION 2018-145-1	COUNTY MCHENRY	TOTAL SHEETS 25	SHEET NO. 15
CONTRACT NO. 62H75			ILLINOIS FED. AID PROJECT	



PROPOSED PAVEMENT MARKINGS LEGEND

- ① THERMOPLASTIC PVMT. MARKING LINE 4", SKIP-DASH, YELLOW, 10' LINE WITH 30' SPACE, 5 1/2" C-C - NO PASSING ZONE LINES (TYP.)
- ② THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 2 @ 4", 11" C-C - LANE AND EDGE LINE/PAINTED MEDIAN MARKING (TYP.)
- ③ THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, YELLOW, 5 1/2" C-C - NO PASSING ZONE LINES (TYP.)
- ④ THERMOPLASTIC PVMT. MARKING LINE 6", SKIP-DASH, WHITE, 2' LINE WITH 6' SPACE - TURN LINE MARKING (TYP.)
- ⑤ THERMOPLASTIC PVMT. MARKING LINE 6", SOLID, WHITE - TURN LANE MARKING (TYP.)
- ⑥ THERMOPLASTIC PVMT. MARKING LETTERS & SYMBOLS, 8", SOLID, WHITE - PAVEMENT MARKING (TYP.)
- ⑦ THERMOPLASTIC PVMT. MARKING LINE 24", SOLID, WHITE - STOP LINES (TYP.)
- ⑧ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, YELLOW - PAINTED MEDIAN MARKING (TYP.)
- ⑨ THERMOPLASTIC PVMT. MARKING LINE, DIAGONALS, 12", SOLID, WHITE - SHOULDER
- ⑩ THERMOPLASTIC PVMT. MARKING LINE 4", SOLID, WHITE - LANE AND EDGE LINE MARKING (TYP.)

ROADWAY LEGEND:

- Ⓐ PROP. GUARDRAIL REMOVAL
- PROP. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
- PROP. TERMINAL MARKER - DIRECT APPLIED
- PROP. GUARDRAIL REFLECTORS, TYPE A

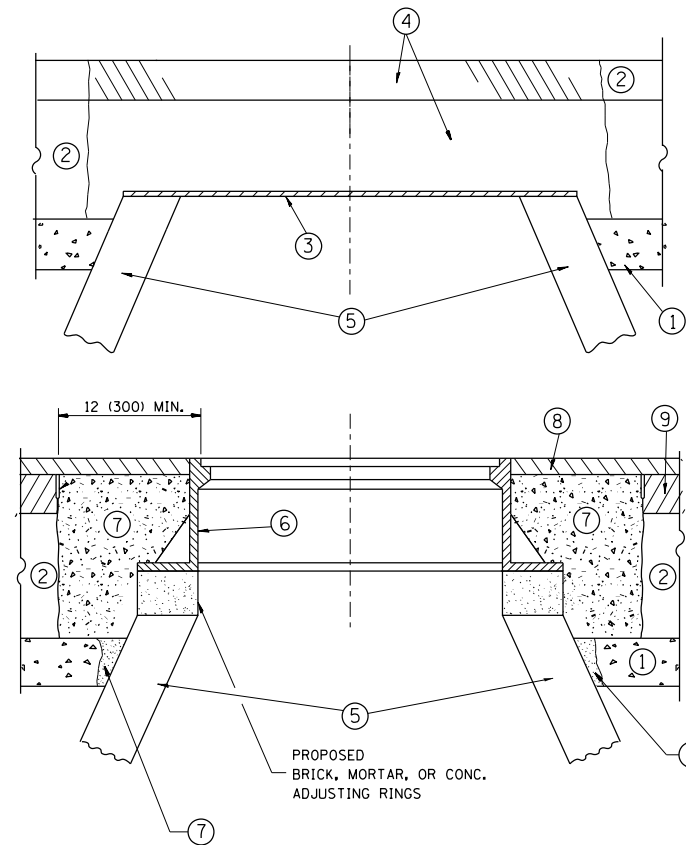
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USER NAME = alawnehab	DESIGNED -	REVISED AA - 3/15/2019
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 3/15/2019	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN	
IL. ROUTE 31 (RICHMOND ROAD) (JOHNSBURG ROAD TO U.S. ROUTE 12.)	
SCALE: 1" = 50'	SHEET 16 OF 25 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	2018-145-I	MCHENRY	25	16
			CONTRACT NO. 62H75	
		ILLINOIS FED. AID PROJECT		



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES:

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

BASIS OF PAYMENT:

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

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

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

NOTES:

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

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

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

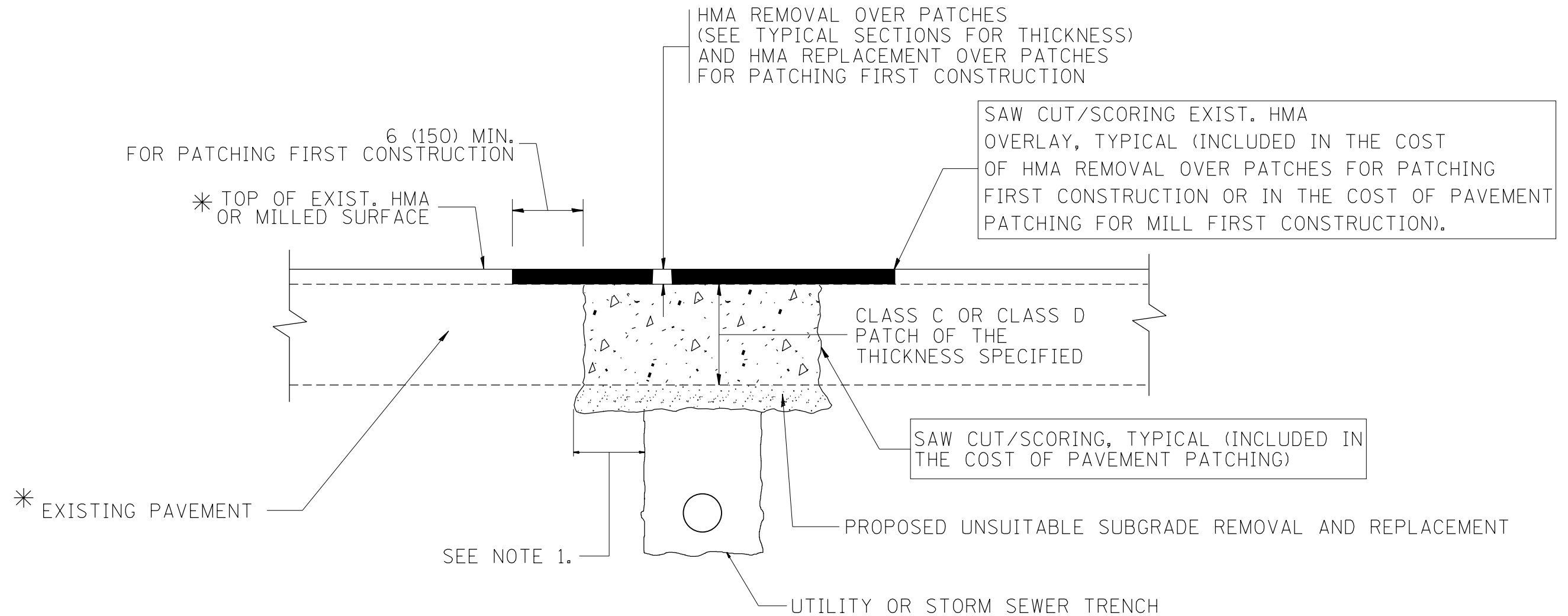
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = alawnehab	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
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	PLOT DATE = 1/31/2019	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	2018-145-1	MCHENRY	25	17
BD600-03 (BD-8)		CONTRACT NO. 62H75		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

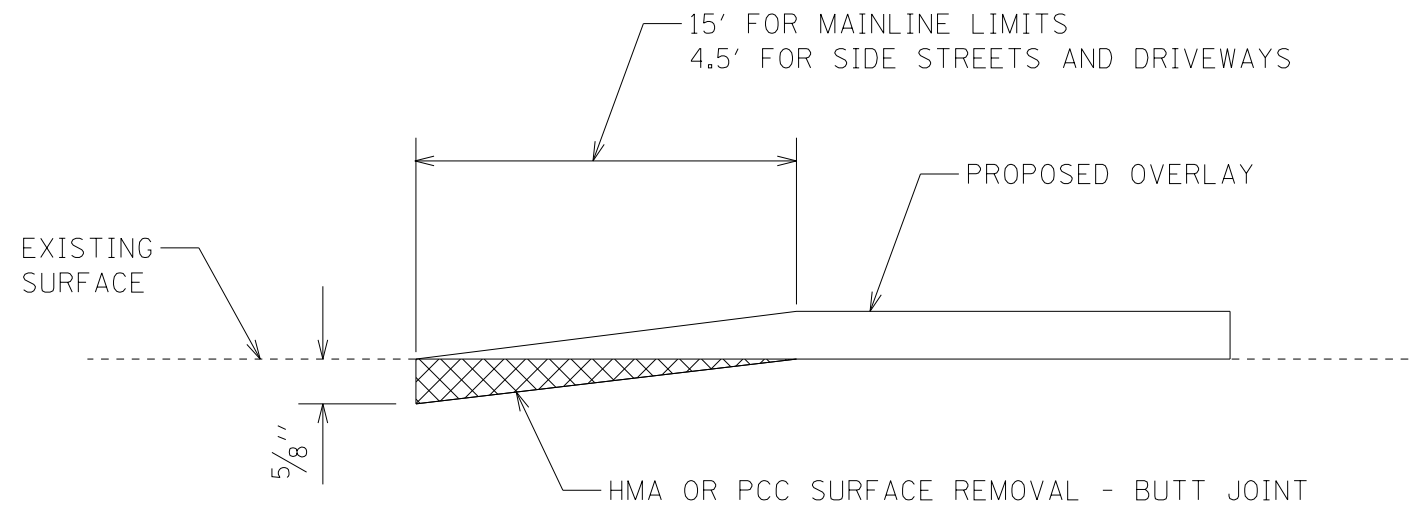
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

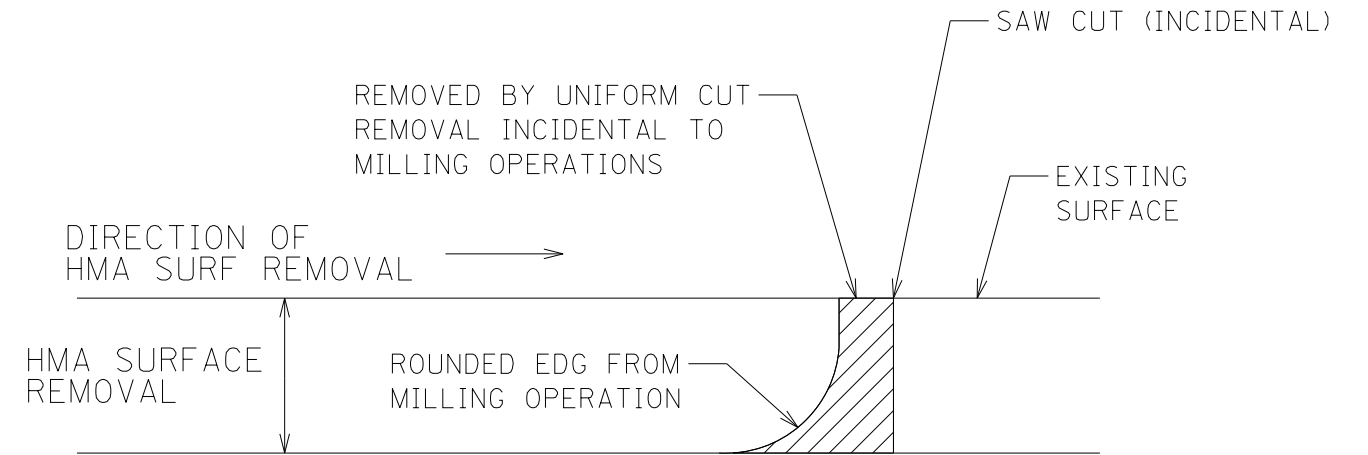
1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

FILE NAME =	USER NAME = alawnehab	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = 1/31/2019	DATE - 10-25-94	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)			CONTRACT NO. 62H75				
			REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			



BUTT JOINT TAPER DETAIL



NOTE: WHEN MILLING OPERATION PRODUCE A ROUNDED EDGE, THEN SAW CUT SHALL BE USED TO MANUFACTURE A PERPENDICULAR EDGE AS SHOWN IN THE DETAIL. THE ENGINEER SHALL BE THE SOLE JUDGE CONCERNING THE USE OF THIS DETAIL

HMA DETAIL AT BUTT JOINTS

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 PLOT: hma.dwg
 PLOT DATE: 3/15/2019
 PROJECT: 2018-145-1
 SHEET: 25 OF 25
 CONTRACT: 62H75

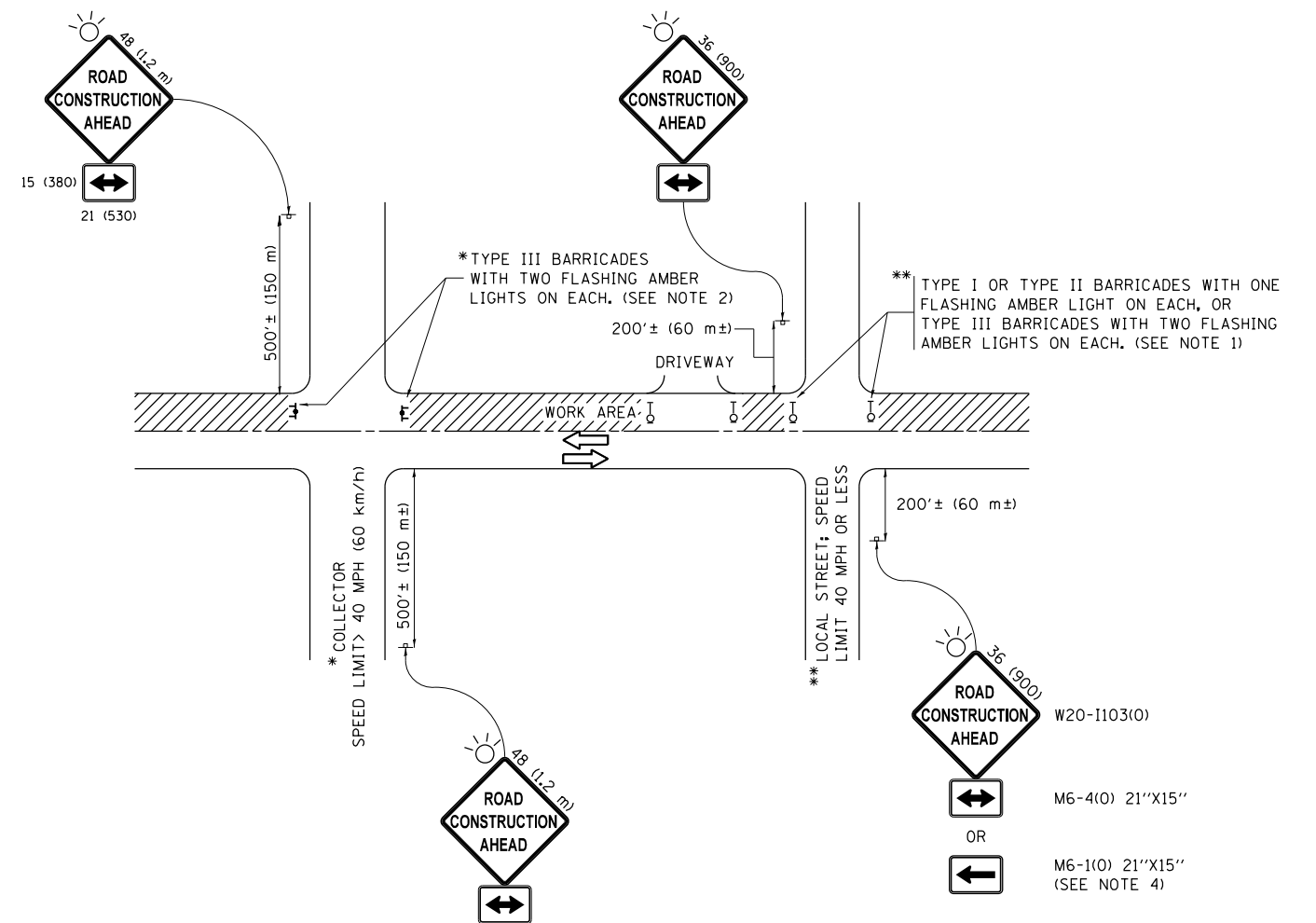
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PLOT DATE = 3/15/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

BUTT JOINT AND HMA TAPER DETAILS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	2018-145-1	MCHENRY	25	19
ILLINOIS			FED. AID PROJECT	
CONTRACT NO. 62H75				



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. 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).
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.

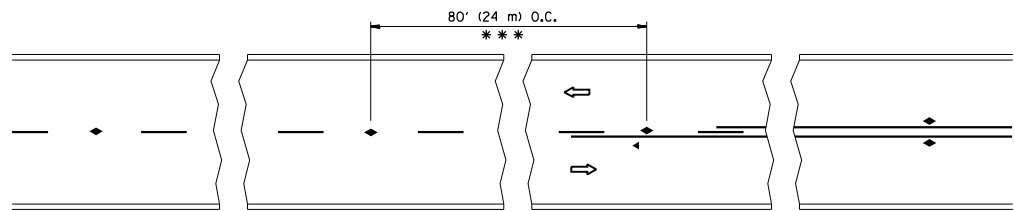
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	PLOT DATE = 1/31/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

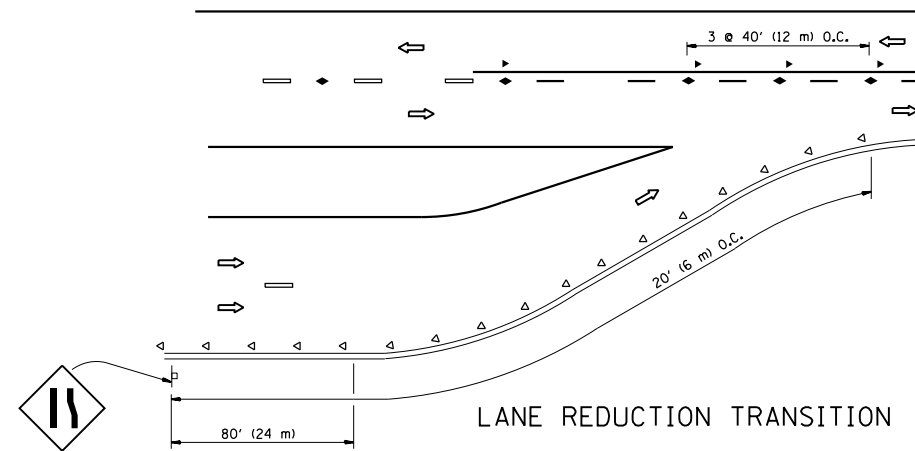
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336	2018-145-1	MCHENRY	25	20
TC-10			CONTRACT NO. 62H75	
ILLINOIS FED. AID PROJECT				

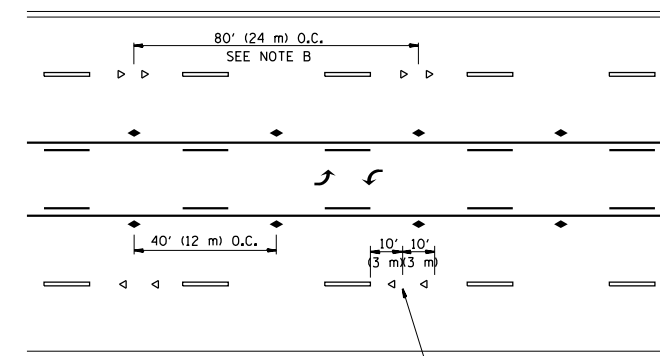


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

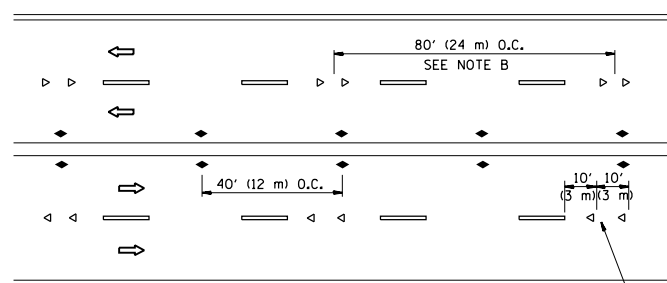
TWO-LANE/TWO-WAY



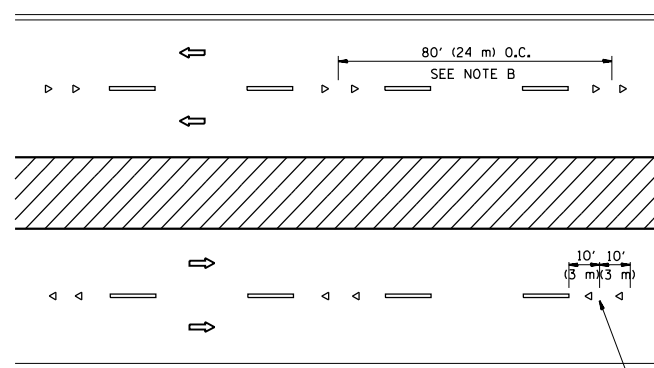
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

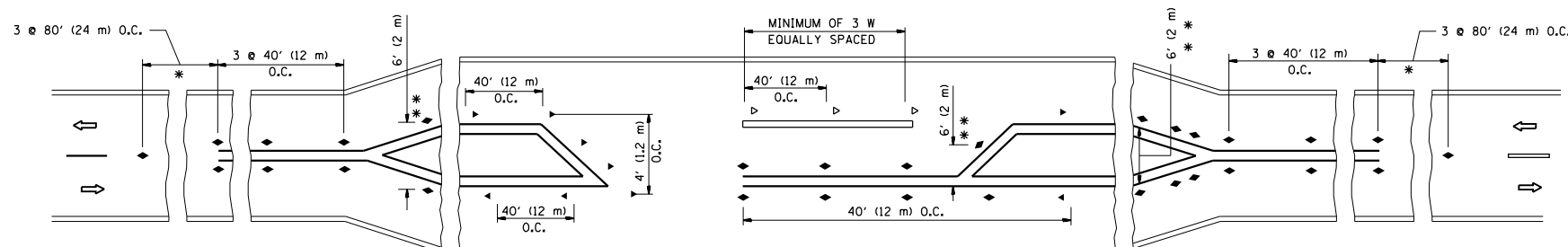
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR 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.

LEFT TURN

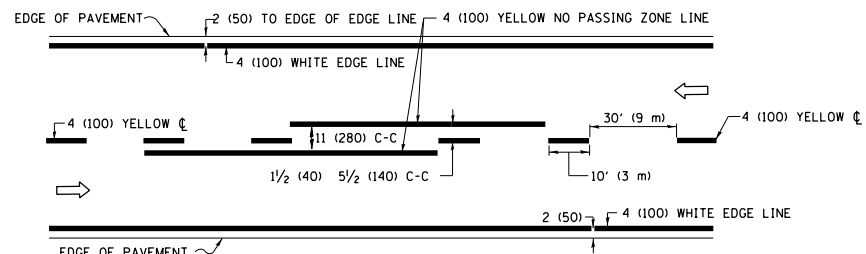
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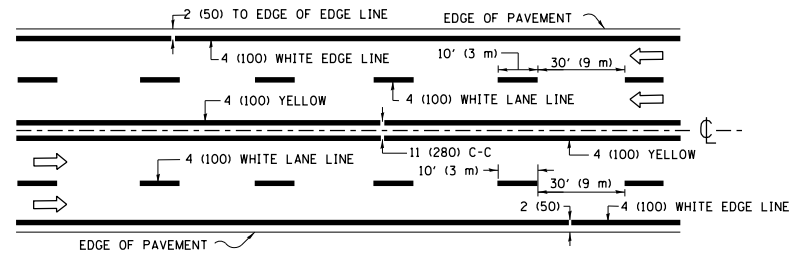
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

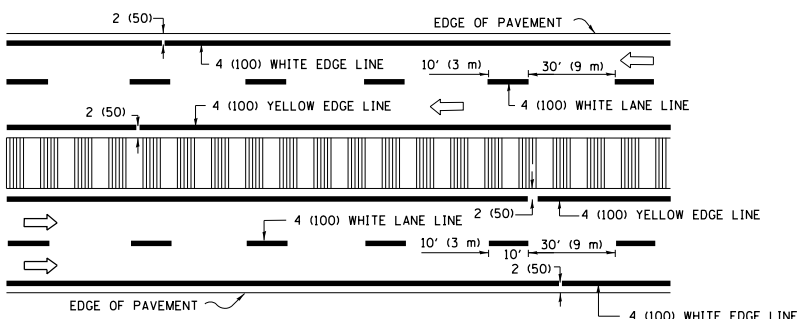
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336	2018-145-1	MCHENRY	25	21
TC-11		CONTRACT NO. 62H75		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

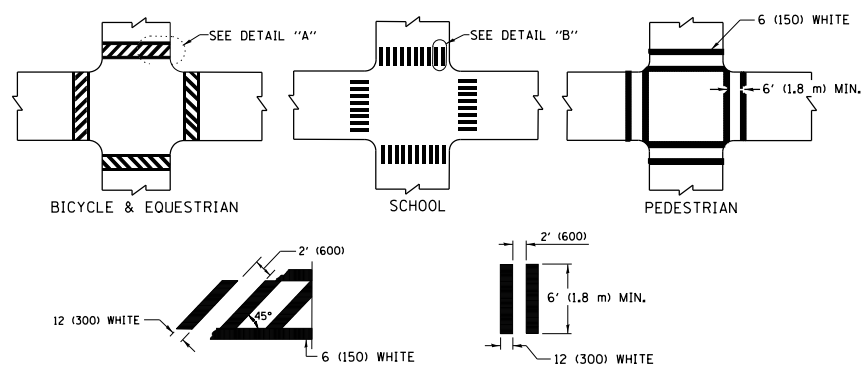


MULTI-LANE UNDIVIDED



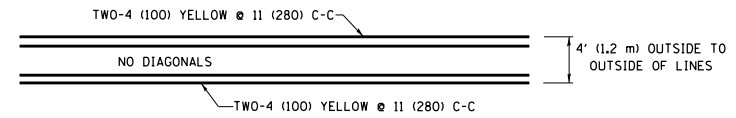
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

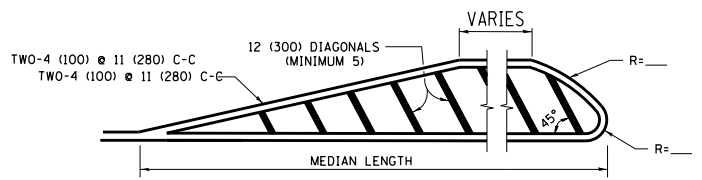


TYPICAL CROSSWALK MARKING

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

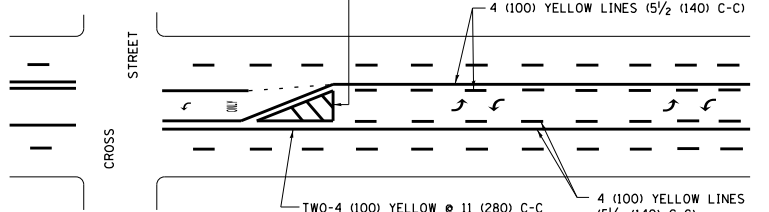


4' (1.2 m) WIDE MEDIANS ONLY



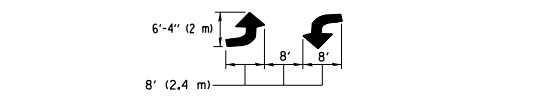
MEDIANS OVER 4' (1.2 m) WIDE

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

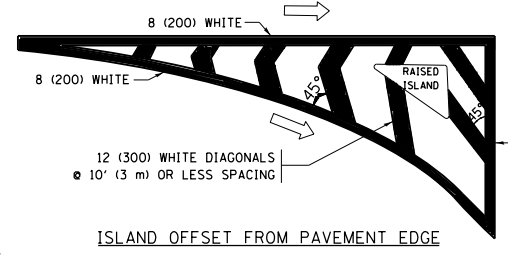
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



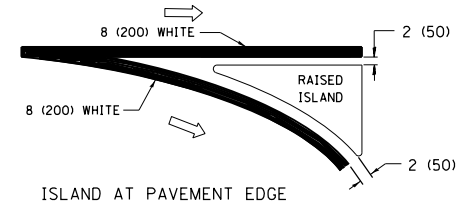
TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

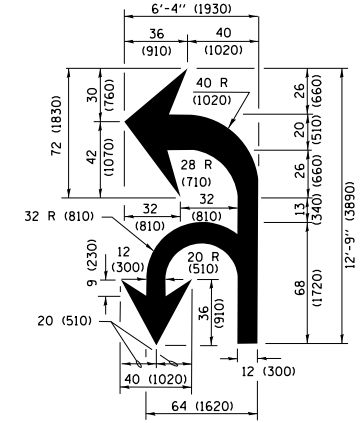
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".



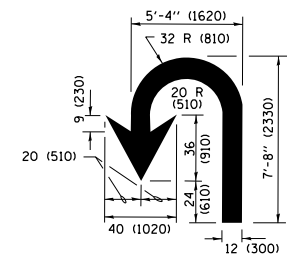
ISLAND OFFSET FROM PAVEMENT EDGE



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 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (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.

FILE NAME =	USER NAME = alawnehab	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
pw\11084EBIDINTEG\11nois.gov\PIWDD\Documents\DOT Offices\District 1\Projects\DI11084EBIDINTEG\Design\DistStd.dgn		CHECKED -	REVISED - C. JUCIUS 07-01-13
Default	PLOT SCALE = 100.0000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 1/31/2019		REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	2018-145-1	MCHENRY	25	22
TC-13			CONTRACT NO. 62H75	
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

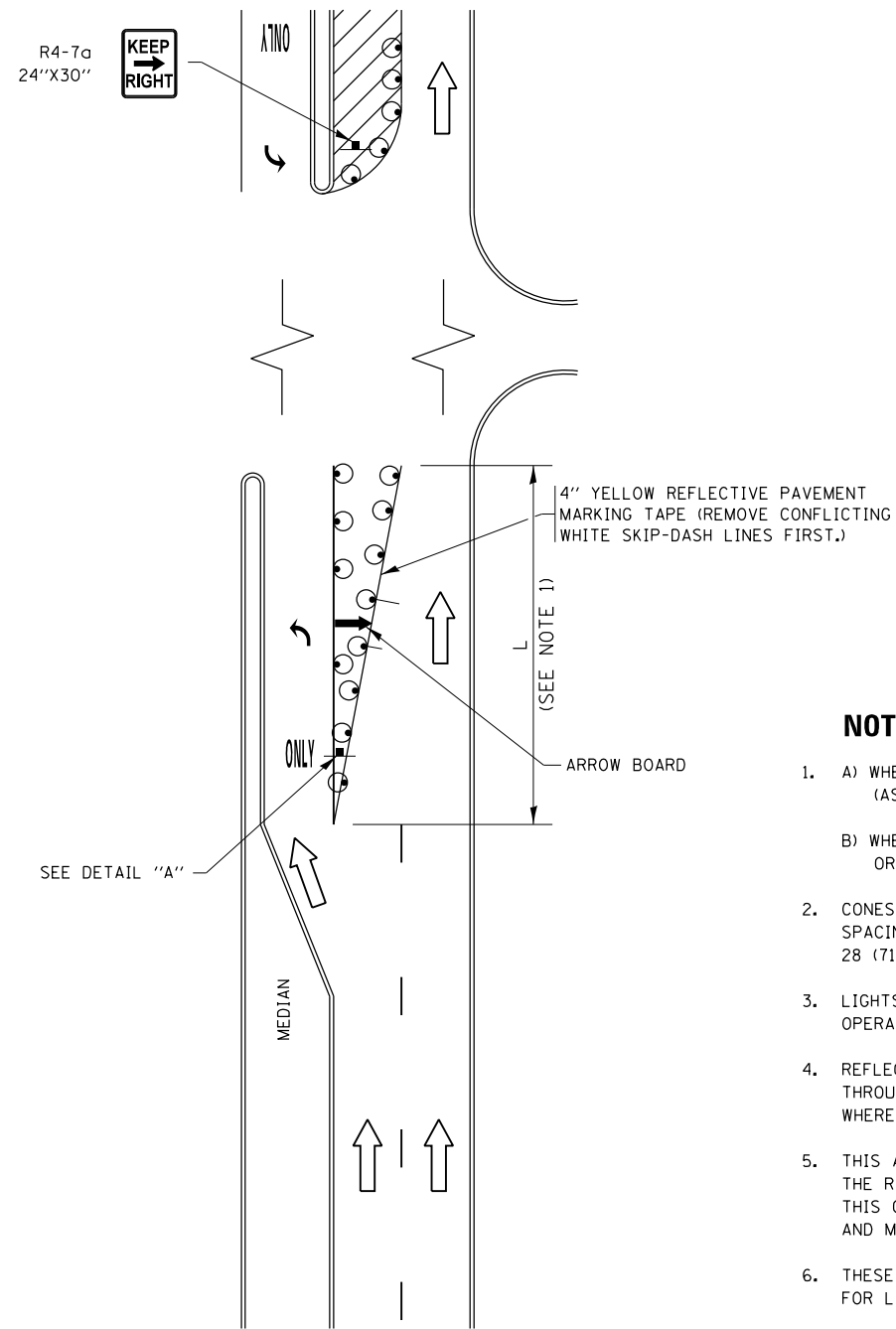
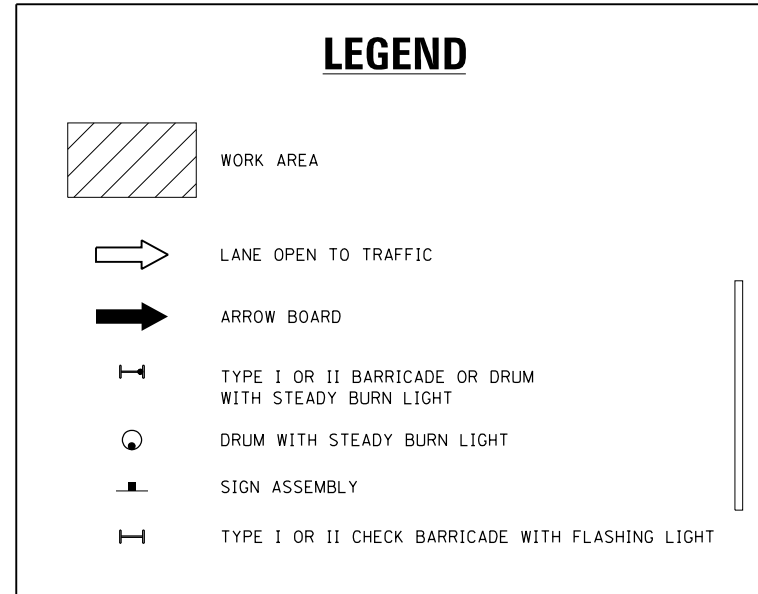


FIGURE 1



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 PREQUIREMENTS.
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.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

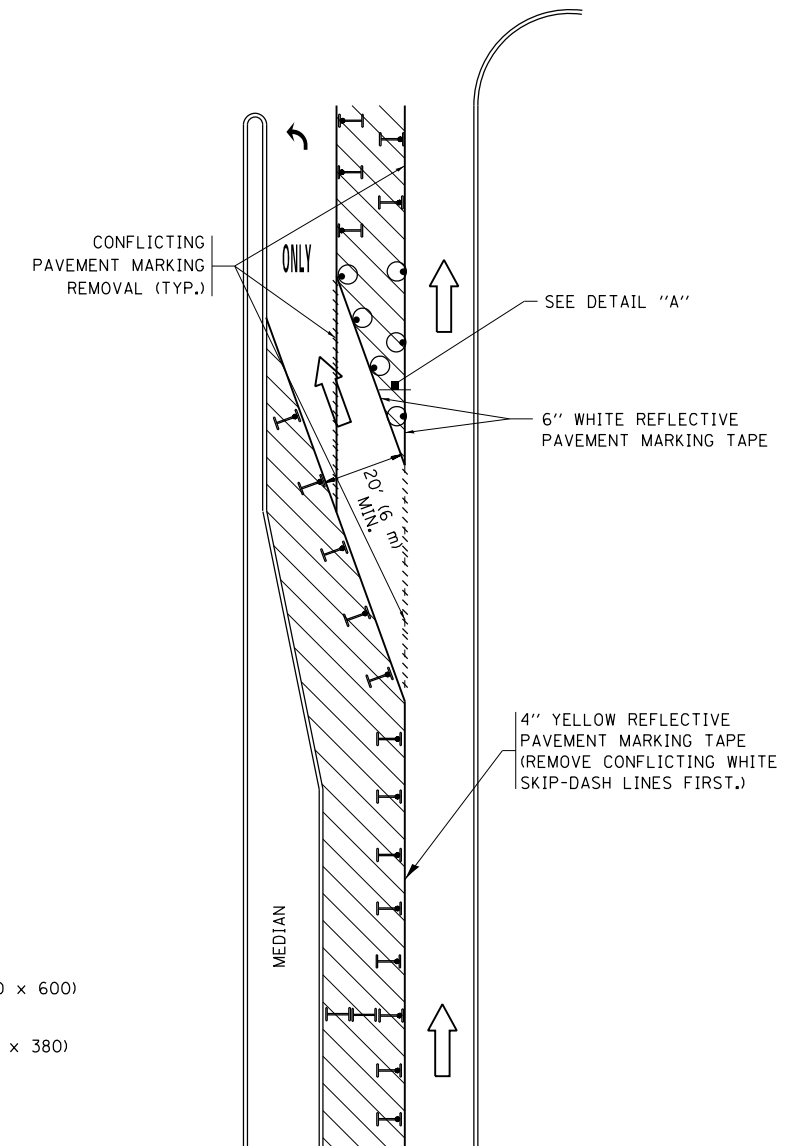
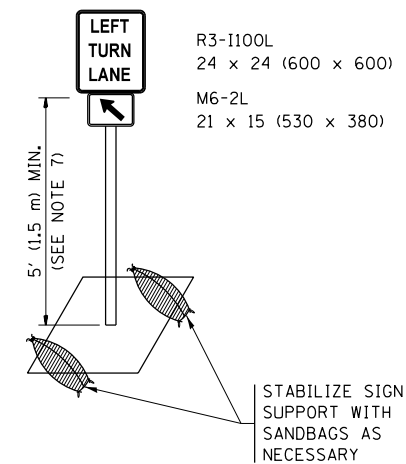


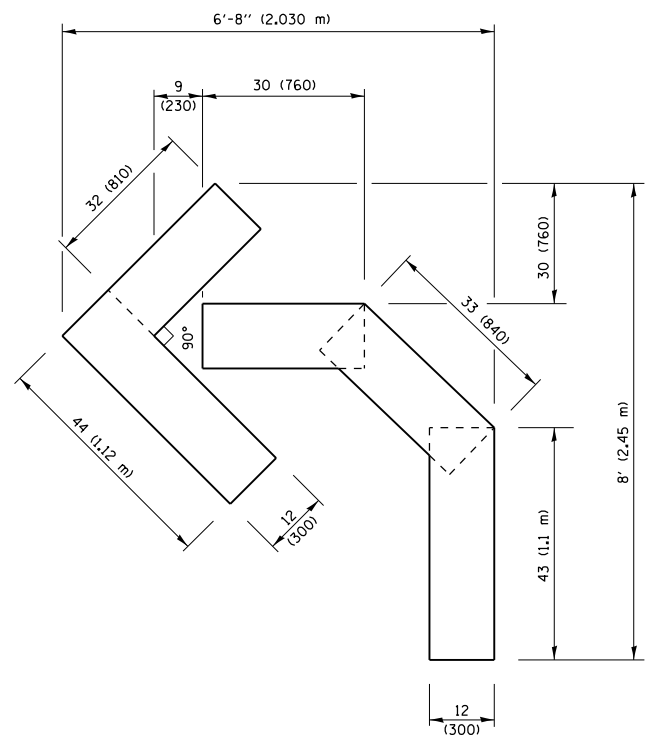
FIGURE 2



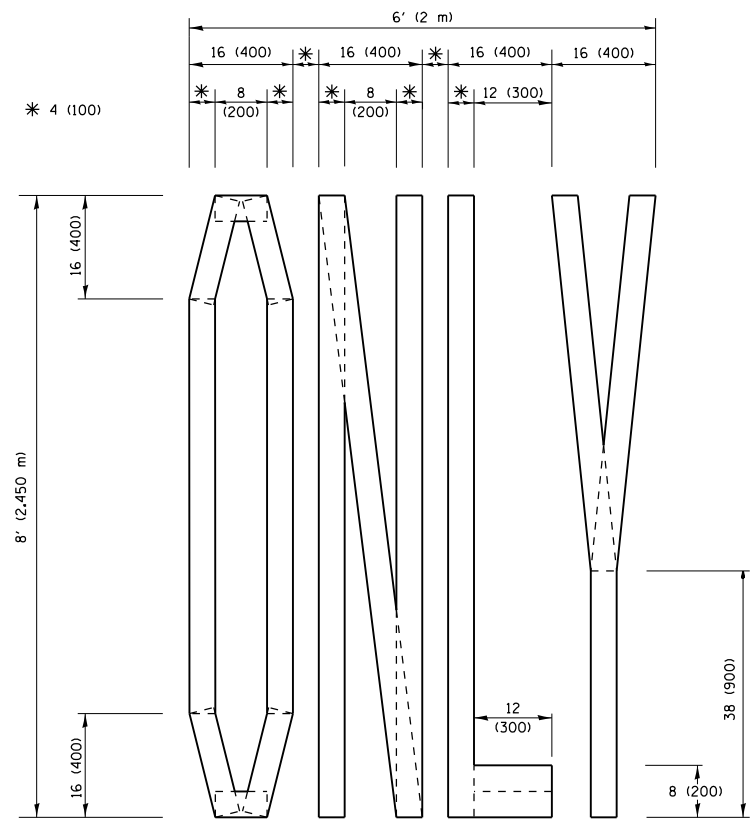
DETAIL A

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

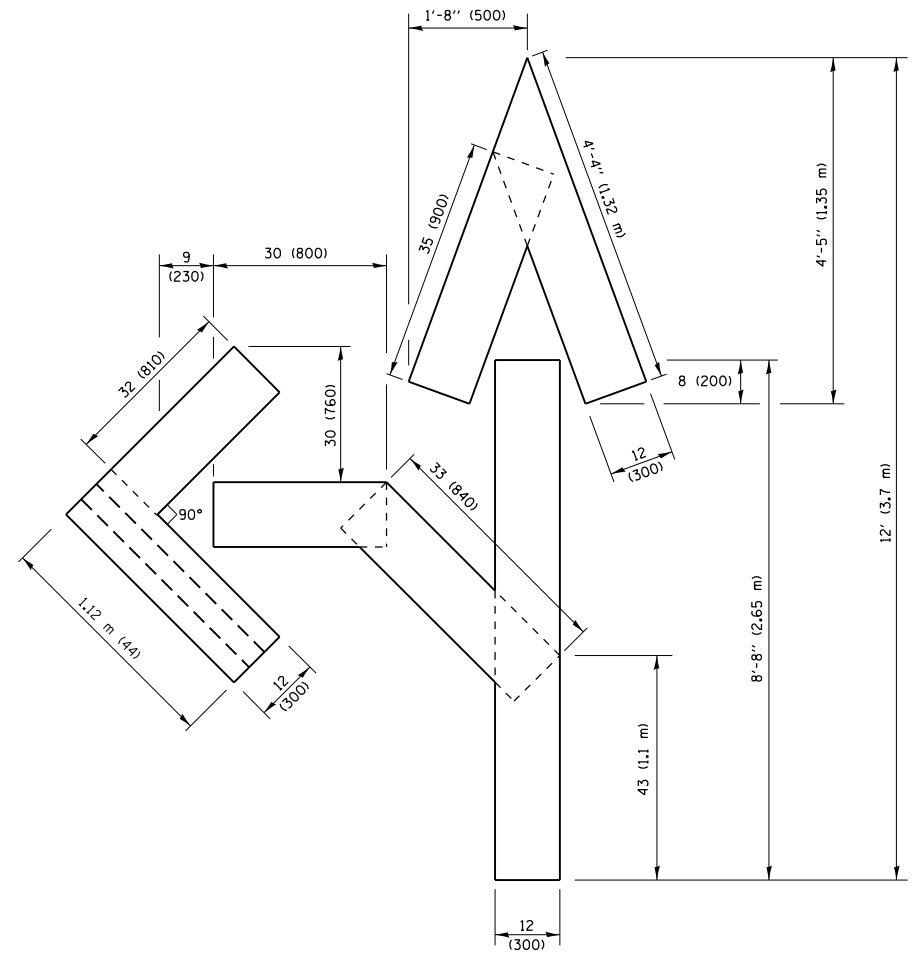
FILE NAME =	USER NAME = alawnehob	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)			F.A.P. R.T.E.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
Default		REVISED - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13					336	2018-145-1	MCHENRY	25	23
	PLOT SCALE = 100.0000' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16		TC-14			CONTRACT NO. 62H75				
	PLOT DATE = 1/31/2019	REVISED - T. RAMMACHER 01-06-00	REVISED -		SCALE: NONE	SHEET 1	OF 1 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		



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

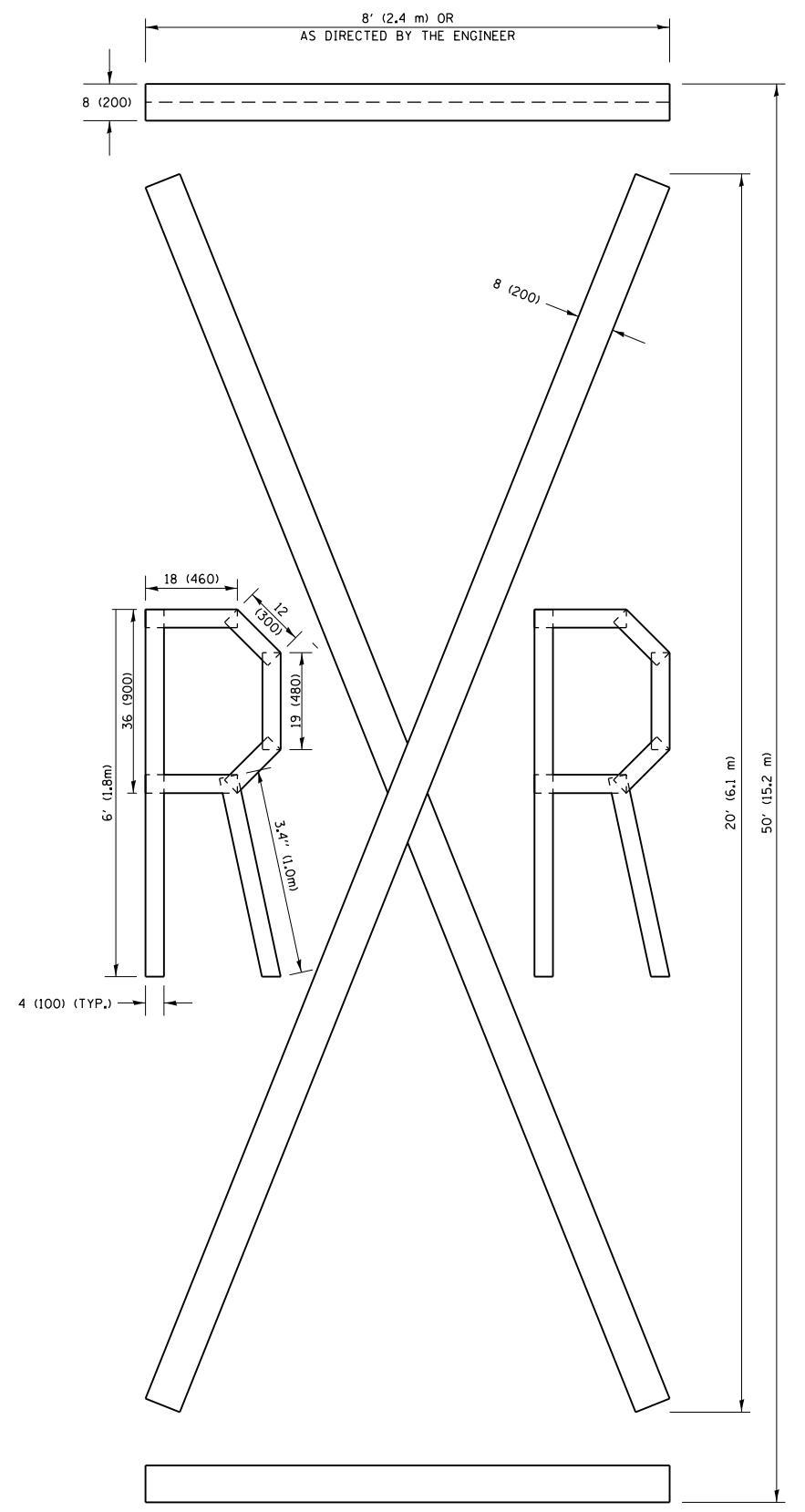


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



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.

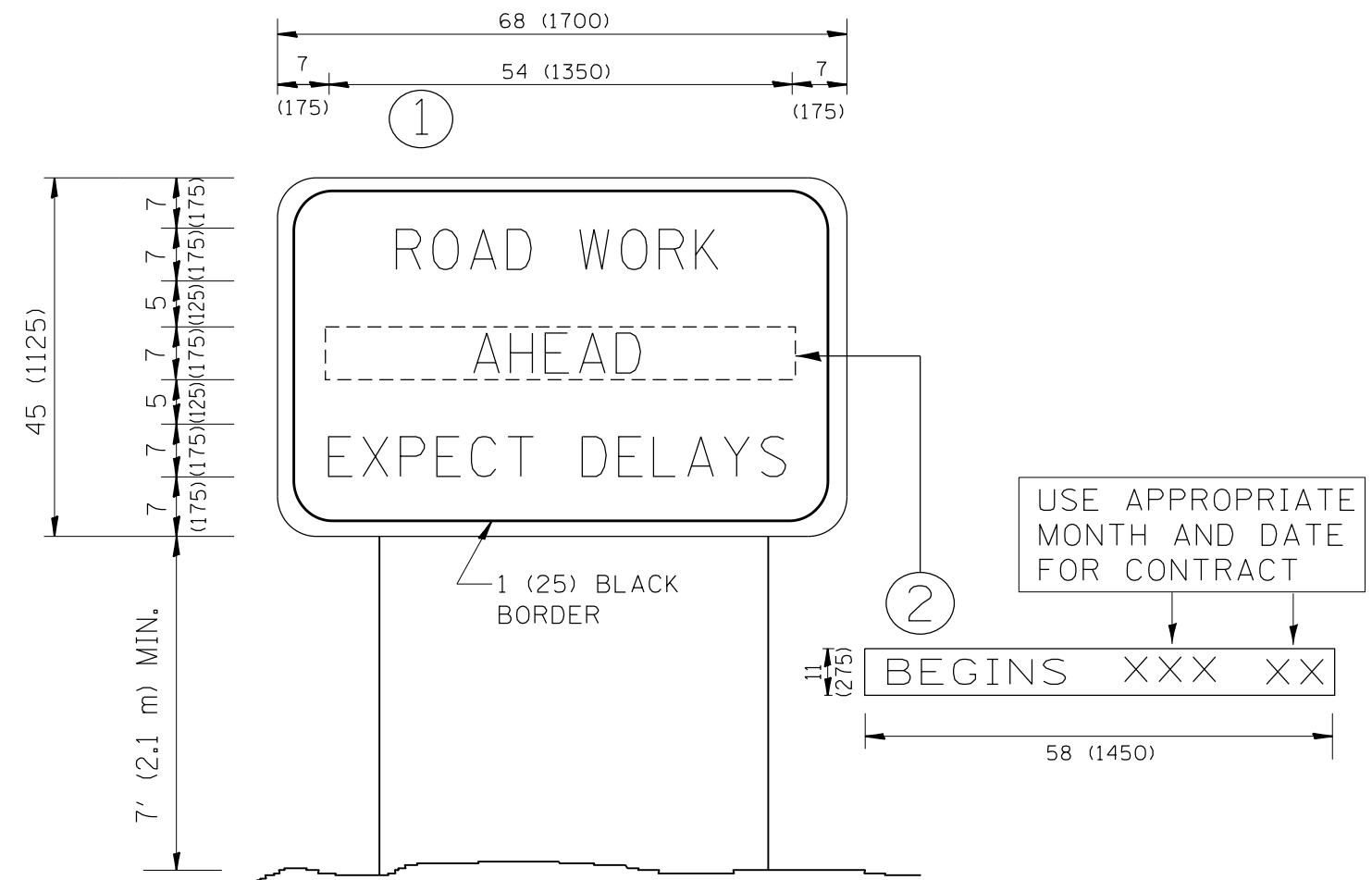
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p:\1\084EBIDINTEG\Illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI1111\Drawings\Design\DistStd.dgn		DRAWN -	REVISED - E. GOMEZ 08-28-00
		CHECKED -	REVISED - E. GOMEZ 08-28-00
		DATE -	REVISED - A. SCHUETZE 09-15-16
PLOT SCALE = 100.0010' / 1"			
PLOT DATE = 1/31/2019			

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	2018-145-1	MCHENRY	25	24
TC-16		CONTRACT NO. 62H75		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

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

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

FILE NAME =	USER NAME = alawnehab	DESIGNED -	REVISED - R. MIRS 09-15-97
p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI1111\Drawings\Design\DistStd.dgn		DRAWN -	REVISED - R. MIRS 12-11-97
	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE = 1/31/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	2018-145-1	MCHENRY	25	25
TC-22		CONTRACT NO. 62H75		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				