

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 RS2	MCHENRY	38	1
		ILLINOIS	CONTRACT NO. 62T60	

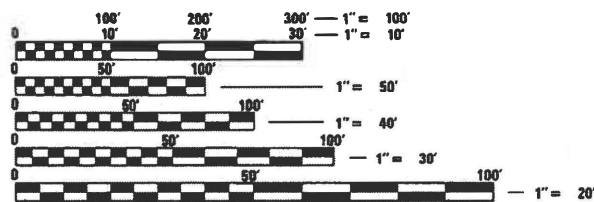
FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION: OTHER PRINCIPAL ARTERIAL
FAP ROUTE 334: US HIGHWAY 12
2021 ADT: 12,000 VPD
SPEED LIMIT: VARIES 45-50 MPH

IMPROVEMENT LOCATED IN:
CITY OF RICHMOND
VILLAGE OF SPRING GROVE
UNINCORPORATED AREAS OF
MCHENRY COUNTY

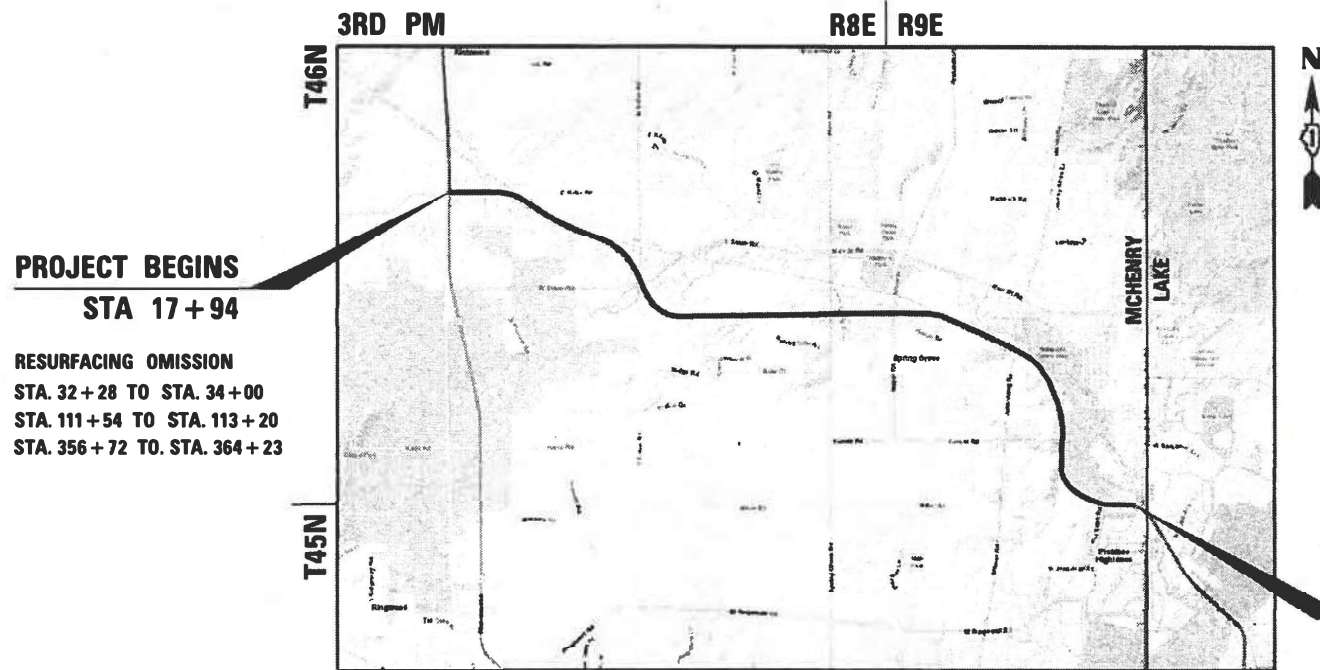
PROPOSED
HIGHWAY PLANS

FAP ROUTE 334: US HIGHWAY 12
US 12 FROM IL 31 (TRYON GROVE RD) TO
+/- 550 FT W. OF STATE PARK RD
SECTION FAP 0334 22 RS2
FEDERAL AID PROJECT NHPP-YI3J(761)
SMART OVERLAY
MCHENRY COUNTY
C-91-008-23



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 EXCAVATORS
1-800-892-0123
OR 811



PROJECT BEGINS
STA 17+94

RESURFACING OMISSION
STA. 32+28 TO STA. 34+00
STA. 111+54 TO STA. 113+20
STA. 356+72 TO STA. 364+23



DATE SIGNED: 12-08-23
EXP. DATE: 11-30-25

PROJECT ENDS
STA 369+94

LOCATION MAP (NOT TO SCALE)
GROSS LENGTH = 35,200 FT. = 6.67 MILE
NET LENGTH = 34,096 FT. = 6.46 MILE

PROJECT ENGINEER MR. RODRIGO LEDEZMA, P.E. (847) 705-4580
PROJECT MANAGER MR. J. ALAIN MIDY, P.E., (847) 221-3056

RICHMOND TOWNSHIP

BURTON TOWNSHIP

MCHENRY TOWNSHIP

Accurate GROUP, INC.
WWW.ACCGI.COM
101 SCHELTER RD., SUITE B-200
LINCOLNSHIRE, ILLINOIS 60069
T (847) 613-1100 F (847) 613-1105
ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184.002053

CONTRACT NO. 62T60

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED NOVEMBER 22 20 23
Open Prop 1003
REGIONAL ENGINEER

February 2, 2024 [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

February 2, 2024 [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

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LIST OF STATE HIGHWAY STANDARDS

STANDARD NO.	TITLE
000001-08	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
442201-03	CLASS C AND D PATCHES
604041-03	FRAME AND GRATE, TYPE 9
604091-05	FRAME AND GRATE, TYPE 24
606001-08	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
630001-13	STEEL PLATE BEAM GUARDRAIL
630301-09	SHOULDER WIDENING FOR TYPE 1 (SPECIAL) GUARDRAIL TANGENTS
631031-18	TRAFFIC BARRIER TERMINAL, TYPE 6
642006-01	SHOULDER RUMBLE STRIPS, 8 IN.
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' (4.5 M) TO 24" (600 MM) FROM PAVEMENT EDGE
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY
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
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701611-01	URBAN HALF ROAD CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901-09	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
781001-04	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE DONE IN ACCORDANCE WITH THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION ADOPTED JANUARY 1, 2022 HEREIN AFTER REFERRED TO AS THE STANDARD SPECIFICATIONS, THE SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS ADOPTED JANUARY 1, 2024, THE LATEST EDITION OF THE ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS, THE DETAILS IN THE PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED UTILITY FACILITIES. 48 HOUR NOTICE IS REQUIRED.
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE VILLAGE OF SPRING GROVE AND THE CITY OF RICHMOND.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR KALPANA KANNAN-HOSADURGA, AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK AND INSTALLATION.
- THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC FIELD AREA ENGINEER FADI SULTAN, AT FADI.SULTAN.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PLACEMENT MARKINGS.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES. A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED AT A MINIMUM OF 1:3 (V:H).
- BUTT JOINTS SHALL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) ACCORDING TO THE "BD-32 BUTT JOINT AND HOT-MIX ASPHALT 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, RESURFACING, AND CLASS C AND D PATCHING OPERATIONS.
- THE CONTRACTOR SHALL EXERCISE CAUTION WHEN REMOVING OR EXCAVATING NEAR ALL EXISTING ITEMS WHICH WILL REMAIN. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S EXPENSE.
- THE CONTRACTOR SHALL MAINTAIN ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- THE LOCATION OF EXISTING DRAINAGE STRUCTURES, STORM SEWERS, WATER MAINS, SANITARY SEWERS, AND ANY OTHER PUBLIC OR PRIVATE UTILITIES AS SHOWN ON THE PLANS IS APPROXIMATE AND THEIR EXACT LOCATION IS TO BE DETERMINED IN THE FIELD BY THE CONTRACTOR.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE PROTECTION OF ALL UNDERGROUND AND SURFACE UTILITIES EVEN THOUGH THEY MIGHT NOT BE SHOWN IN THE PLANS. ANY UTILITY PROPERTY DAMAGED DURING CONSTRUCTION SHALL BE REPAIRED OR REPLACED TO THE SATISFACTION OF THE ENGINEER.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES WHICH OBSTRUCTS THE NATURAL FLOW OF WATER SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. PRIOR TO ACCEPTANCE OF THE IMPROVEMENT, ALL DRAINAGE STRUCTURES SHALL BE FREE OF DIRT AND DEBRIS. THIS WORK WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- EXACT LOCATIONS OF PAVEMENT PATCHING AND CURB & GUTTER REMOVAL & REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ALL PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE IMPROVEMENT ACCORDING TO THE DISTRICT 1 TYPICAL PAVEMENT MARKING STANDARD DETAIL.
- 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.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- 2-FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER ITEMS OR WORK TO EXISTING CURBS AND GUTTERS UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK.
- SAW CUTTING OF SIDEWALK, CURB & GUTTER, ETC. SHALL BE TO FULL DEPTH AND SHALL RESULT IN A CLEAN STRAIGHT EDGE ON THE PORTION REMAINING. ALL SAW CUTTING SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM REMOVED.
- ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE PERFORMED BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- ANY DETECTOR LOOPS DAMAGED OUTSIDE OF THE RESURFACING LIMITS SHALL BE REPLACED BY THE CONTRACTOR AT NO EXPENSE 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 ENGINEER.
- ALL MILLED SURFACES SHALL BE AT A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.
- DIMENSIONS ALONG SIDE STREET ARE FROM THE EDGE OF PAVEMENT LINE ON US 12.
- FOR THE PURPOSE OF ESTIMATING PLAN QUANTITIES 2.06 TONS PER CUBIC YARD WAS USED FOR AGGREGATE SHOULDER AND AGGREGATE WEDGE SHOULDER. THIS RATE SHALL NOT BE USED FOR THE BASIS OF FINAL QUANTITIES.
- 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.
- 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.

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	DRAWN - JLS	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - JJD	REVISED -
PLOT DATE = 12/13/2023	DATE - 12-08-2023	REVISED -

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

INDEX OF SHEETS, STATE HIGHWAY STANDARDS, AND GENERAL NOTES US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	2
			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT Y13(761)				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE ROADWAY	100% STATE ROADWAY
				0005 URBAN	0005 URBAN
20200100	EARTH EXCAVATION	CU YD	215	215	0
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	1104	1104	0
25000210	SEEDING, CLASS 2A	ACRE	0.25	0.25	0
25200110	SODDING, SALT TOLERANT	SQ YD	228	228	0
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	73148	73148	0
40600370	LONGITUDINAL JOINT SEALANT	FOOT	131991	131991	0
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	152	152	0
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	814	814	0
40604062	HOT-MIX ASPHALT SURFACE COURSE, 1L-9.5, MIX "D", N70	TON	13654	13654	0
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SQ YD	156959	156959	0
44201349	CLASS C PATCHES, TYPE I, 10 INCH	SQ YD	87	87	0
44201353	CLASS C PATCHES, TYPE II, 10 INCH	SQ YD	87	87	0
44201357	CLASS C PATCHES, TYPE III, 10 INCH	SQ YD	87	87	0
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	1428	1428	0

* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE ROADWAY	100% STATE ROADWAY
				0005 URBAN	0005 URBAN
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	701	701	0
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	587	587	0
44201851	CLASS D PATCHES, TYPE II, 17 INCH	SQ YD	252	252	0
44201855	CLASS D PATCHES, TYPE III, 17 INCH	SQ YD	124	124	0
44201857	CLASS D PATCHES, TYPE IV, 17 INCH	SQ YD	104	104	0
44213200	SAW CUTS	FOOT	478	478	0
48101200	AGGREGATE SHOULDERS, TYPE B	TON	596	596	0
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	2876	2876	0
60250200	CATCH BASINS TO BE ADJUSTED	EACH	10	10	0
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	10	10	0
60404600	FRAMES AND GRATES, TYPE 9	EACH	1	1	0
60404950	FRAMES AND GRATES, TYPE 24	EACH	2	2	0
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	3	3	0
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	3	3	0

* SPECIALTY ITEMS

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PLOT DATE = 12/13/2023	CHECKED - JJD	REVISED -
	DATE - 12-08-2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

SCALE: NONE SHEET 1 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 334	SECTION FAP 0334 22 R52	COUNTY MCHENRY	TOTAL SHEETS 38	SHEET NO. 3
			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT Y13J(761)				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE ROADWAY	100% STATE ROADWAY
				0005 URBAN	0005 URBAN
* 63000007	STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS	FOOT	475	475	0
* 63000009	STEEL PLATE BEAM GUARDRAIL, TYPE B, 9 FOOT POSTS	FOOT	275	275	0
* 63000030	STRONG POST GUARDRAIL ATTACHED TO CULVERT	FOOT	50	50	0
* 63100085	TRAFFIC BARRIER TERMINAL, TYPE 6	EACH	1	1	0
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	38	38	0
* 63100169	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) FLARED	EACH	1	1	0
63200310	GUARDRAIL REMOVAL	FOOT	2725	2725	0
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	21605	21605	0
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	215	215	0
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	2	0
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	L SUM	1	1	0
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	L SUM	1	1	0
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	9	9	0
67100100	MOBILIZATION	L SUM	1	1	0

* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE ROADWAY	100% STATE ROADWAY
				0005 URBAN	0005 URBAN
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	L SUM	1	1	0
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1	0
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1	0
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1	0
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1	0
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1	0
70300100	SHORT TERM PAVEMENT MARKING	FOOT	29868	29868	0
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	14934	14934	0
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	1925	1925	0
70300221	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	FOOT	108746	108746	0
70300241	TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT	FOOT	9505	9505	0
70300251	TEMPORARY PAVEMENT MARKING - LINE 8" - PAINT	FOOT	382	382	0
70300261	TEMPORARY PAVEMENT MARKING - LINE 12" - PAINT	FOOT	3783	3783	0
70300281	TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT	FOOT	492	492	0

* SPECIALTY ITEMS

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USER NAME = jldavis	DESIGNED - JLS	REVISED -
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PLOT DATE = 12/13/2023	DATE - 12-08-2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

SCALE: NONE SHEET 2 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	4
			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT Y13J(761)				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE ROADWAY	100% STATE ROADWAY
				0005 URBAN	0005 URBAN
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	14934	14934	0
72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	38	38	0
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1867	1867	0
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	105834	105834	0
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	9077	9077	0
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	382	382	0
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	3440	3440	0
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	492	492	0
* 78004635	PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 7"	FOOT	80	80	0
* 78009000	MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	58	58	0
* 78009004	MODIFIED URETHANE PAVEMENT MARKING - LINE 4"	FOOT	2912	2912	0
* 78009006	MODIFIED URETHANE PAVEMENT MARKING - LINE 6"	FOOT	428	428	0
* 78009012	MODIFIED URETHANE PAVEMENT MARKING - LINE 12"	FOOT	112	112	0
* 78011040	GROOVING FOR RECESSED PAVEMENT MARKING 8"	FOOT	80	80	0

* SPECIALTY ITEMS

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE ROADWAY	100% STATE ROADWAY
				0005 URBAN	0005 URBAN
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2346	2346	0
* 78100300	REPLACEMENT REFLECTOR	EACH	80	80	0
* 78200006	GUARDRAIL REFLECTORS, TYPE B	EACH	168	168	0
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2346	2346	0
78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	1382	1382	0
* X8860105	DETECTOR LOOP REPLACEMENT	FOOT	1501	1501	0
X0326898	CENTER LINE - RUMBLE STRIP - 16"	FOOT	9552	9552	0
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	414	414	0
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	200	200	0
X4400503	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT GREATER THAN 10 FEET	FOOT	1025	1025	0
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	1000	0	1000
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	6	6	0
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12	0
* X7800815	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 4 INCH	FOOT	19104	19104	0

* SPECIALTY ITEMS

MODEL: S00_3
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USER NAME = jdavis	DESIGNED - JLS	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - JLS	REVISED -
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	DATE - 12-08-2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

SCALE: NONE SHEET 3 OF 4 SHEETS STA. TO STA.

F.A.P. RTE. 334	SECTION FAP 0334 22 R52	COUNTY MCHENRY	TOTAL SHEETS 38	SHEET NO. 5
			CONTRACT NO. 62T60	
(ILLINOIS FED. AID PROJECT Y131(761))				

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION CODE	
				80% FED 20% STATE ROADWAY	100% STATE ROADWAY
				0005 URBAN	0005 URBAN
X7830050	RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL	EACH	80	80	0
Z0012800	CONCRETE PAVEMENT SCARIFICATION	SQ YD	366	366	0
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	41	0	41
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	433	433	0
Ø Z0077600	TRAINEES	HOURS	500	500	
Ø Z0077604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500	

* SPECIALTY ITEMS



USER NAME = jschumann	DESIGNED - JLS	REVISED -
PLOT SCALE = 100.0000' / in.	DRAWN - JLS	REVISED -
PLOT DATE = 12/13/2023	CHECKED - JJD	REVISED -
	DATE - 12-08-2023	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

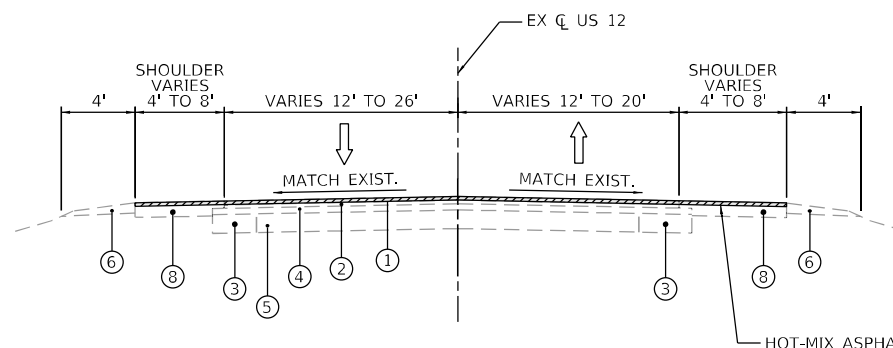
SCALE: NONE SHEET 4 OF 4 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	6
[ILLINOIS (FED. AID PROJECT Y13(1761)]			CONTRACT NO. 62T60	

Ø 0042

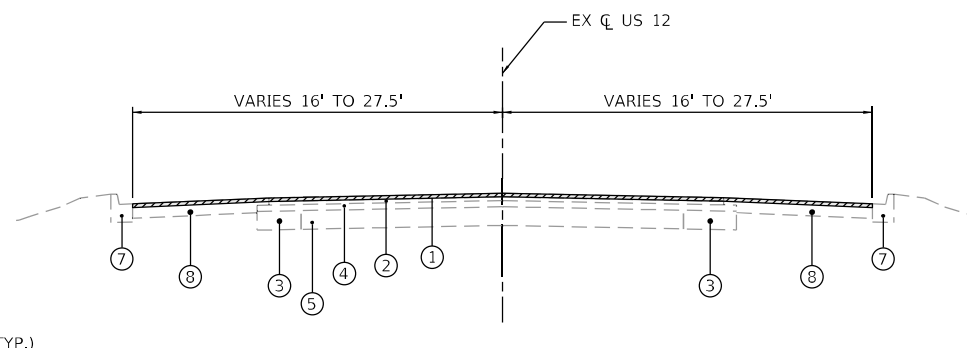
EXISTING CONDITIONS:

- ① EXISTING HMA SURFACE COURSE, 1½"
- ② EXISTING HMA BINDER COURSE, 1½" AND VARIES
- ③ EXISTING 9" HMA BASE COURSE WIDENING
- ④ EXISTING HMA PAVEMENT, 4¾" & VARIES
- ⑤ EXISTING CONCRETE PAVEMENT, VARIES 7" TO 9"
- ⑥ EXISTING AGGREGATE WEDGE SHOULDER, TYPE B
- ⑦ EXISTING COMBINATION CONCRETE CURB & GUTTER
- ⑧ EXISTING 8" HMA SHOULDER



EXISTING TYPICAL SECTION

STA. 17+94 TO STA. 32+28
 STA. 34+00 TO STA. 111+54
 *STA. 113+20 TO STA. 348+64
 (LOOKING EAST)

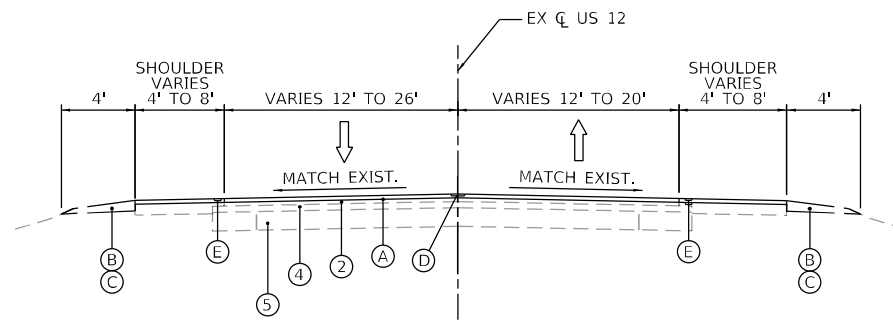


EXISTING TYPICAL SECTION

STA. 348+64 TO STA. 356+72
 STA. 364+23 TO STA. 369+94
 (LOOKING EAST)

PROPOSED IMPROVEMENTS:

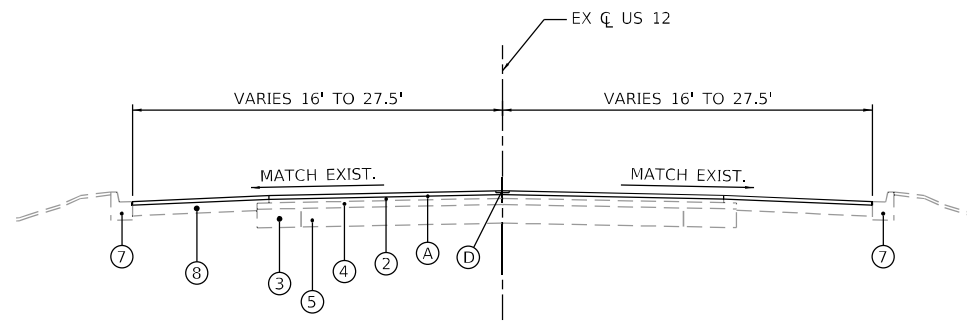
- ▨ HOT-MIX ASPHALT SURFACE REMOVAL, 1½"
- (A) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", 1½"
- (B) PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- (C) PROPOSED GRADING AND SHAPING SHOULDERS
- (D) PROPOSED CENTER LINE RUMBLE STRIP - 16" (SEE PAVEMENT MARKING SHEETS FOR LIMITS)
- (E) PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH (SEE PAVEMENT MARKING SHEETS FOR LIMITS)



PROPOSED TYPICAL SECTION

STA. 17+94 TO STA. 32+28
 STA. 34+00 TO STA. 111+54
 *STA. 113+20 TO STA. 348+64
 (LOOKING EAST)

* PCC CORRUGATED MEDIAN SHOULDER WITH MONOLITHIC CURB
 LOCATED ON THE SOUTH SIDE FROM STA. 343+98 TO STA. 348+64
 (SEE SHEET 8 FOR SHOULDER IMPROVEMENT DETAIL)



PROPOSED TYPICAL SECTION

STA. 348+64 TO STA. 356+72
 STA. 364+23 TO STA. 369+94
 (LOOKING EAST)

HMA MIXTURE REQUIREMENTS CHART

OPERATION	MIXTURE TYPE	AIR VOIDS (%) @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RESURFACING	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 1½"	4% @ 70 GYR.	PFP
CLASS D PATCHES	HOT-MIX ASPHALT BINDER COURSE, IL-19.0	4% @ 70 GYR.	QC/QA
QUALITY MANAGEMENT PROGRAM (QMP) DESIGNATION: PAY-FOR-PERFORMANCE (PFP) QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)			

NOTES

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES IS 112 LB/SY/IN.
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 RECLAIMED MATERIALS SPECIFICATIONS.
3. LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER MILLED SURFACE.
4. CONTRACTOR SHALL MILL BEFORE PATCHING.

MODEL: D:\a\l... FILE: M:\e... 62T60\CADD\CADD_Sheet\US12\RD162T60-IL-11\typical01.dgn

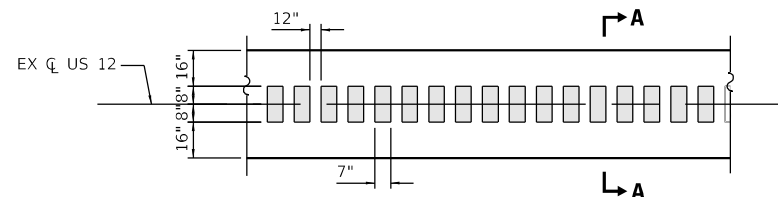


USER NAME = jschumann	DESIGNED - JLS	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - JLS	REVISED -
PLOT DATE = 12/13/2023	CHECKED - JJD	REVISED -
	DATE - 12-08-2023	REVISED -

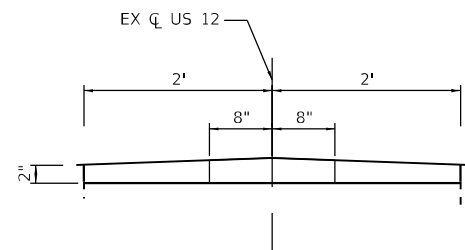
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS AND DETAILS
 US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**
 SCALE: NONE SHEET 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	7
CONTRACT NO. 62T60				
ILLINOIS FED. AID PROJECT Y131(761)				



PLAN



SECTION A-A

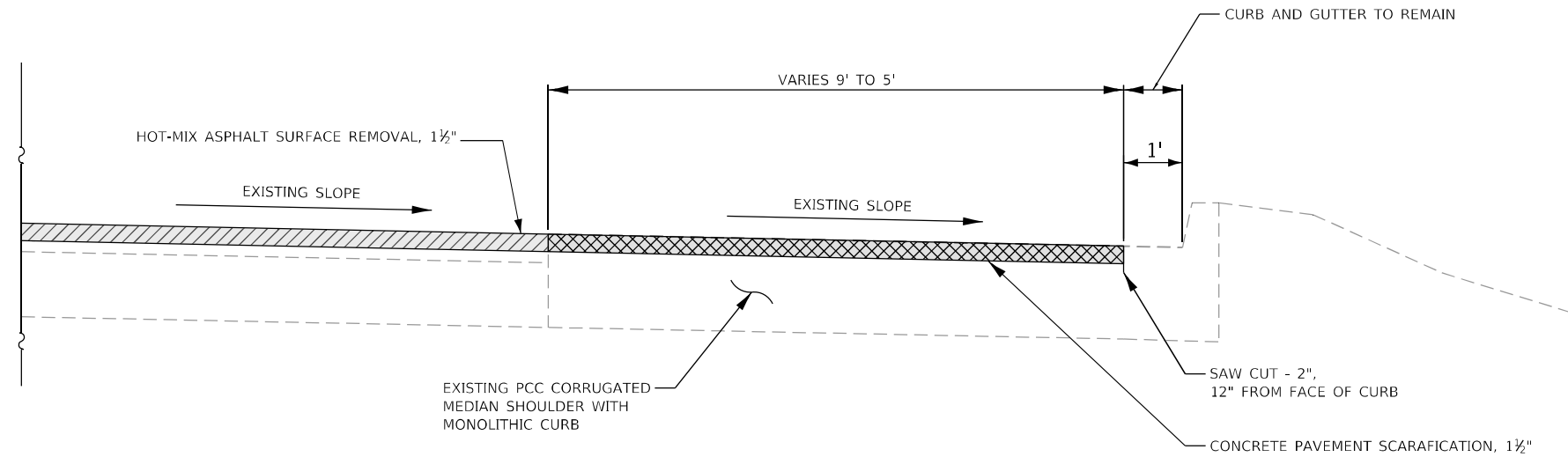
US 12 PROPOSED CENTER LINE – RUMBLE STRIP – 16" IN EXISTING PAVEMENT

NOTE:

1. SEE PAVEMENT MARKING SHEETS FOR LIMITS.
2. PAVEMENT MARKINGS ON CENTER LINE RUMBLE STRIPS SHALL BE HOT SPRAY THERMOPLASTIC.

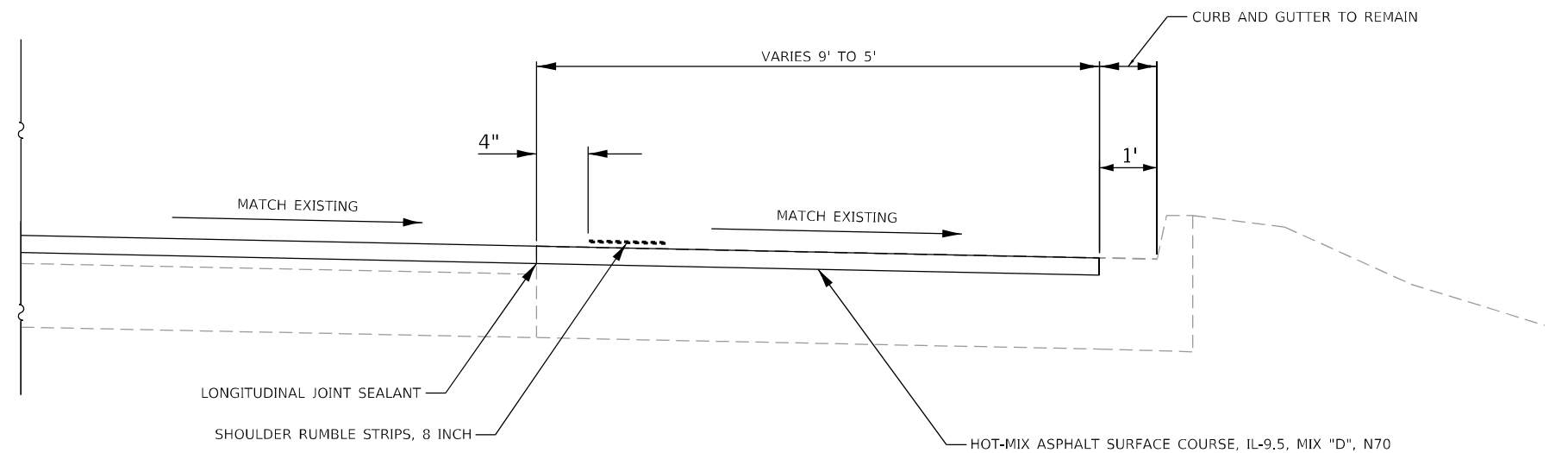
CONSTRUCTION NOTES:

1. SAW CUT EXISTING PCC CORRUGATED SHOULDER TO A DEPTH OF 2", 12" FROM THE FACE OF CURB.
2. SCARIFY 1½" FROM TOP OF EXISTING PCC CORRUGATED SHOULDER SURFACE.
3. AFTER SCARIFICATION, THE ENGINEER SHALL DETERMINE PATCH LOCATIONS. THIS WORK FOR CONCRETE PATCHING WILL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR CLASS C PATCHES, TYPE I, II, AND III, 10 INCH.
4. APPLY BITUMINOUS MATERIALS (TACK COAT) ON SCARIFIED PCC SURFACE.
5. PLACE HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70 ON EXISTING PCC SURFACE.



REMOVAL SHOULDER IMPROVEMENT DETAIL

STA. 343+98 TO STA. 348+64



PROPOSED SHOULDER IMPROVEMENT DETAIL

STA. 343+98 TO STA. 348+64

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**TYPICAL SECTIONS AND DETAILS
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	8
			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT Y13J(761)				

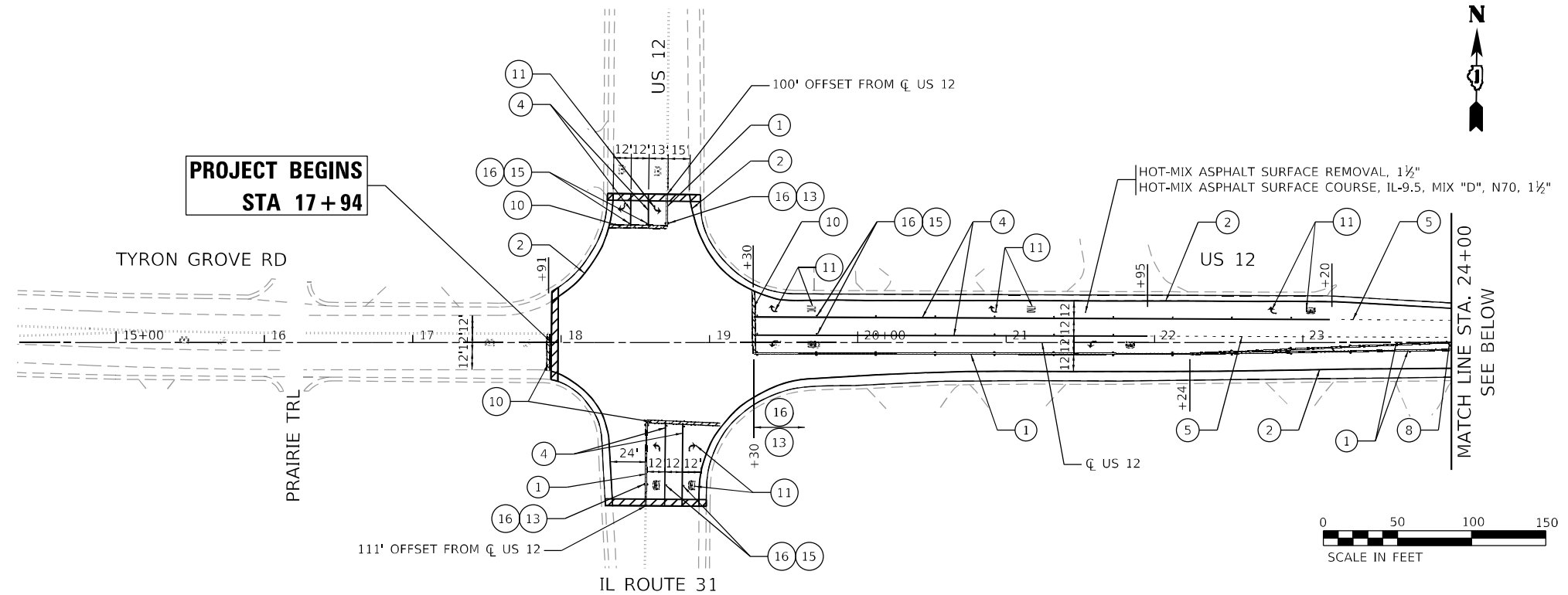
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USER NAME = jschumann	DESIGNED - JLS	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN - JLS	REVISED -
PLOT DATE = 12/13/2023	CHECKED - JJD	REVISED -
	DATE - 12-08-2023	REVISED -

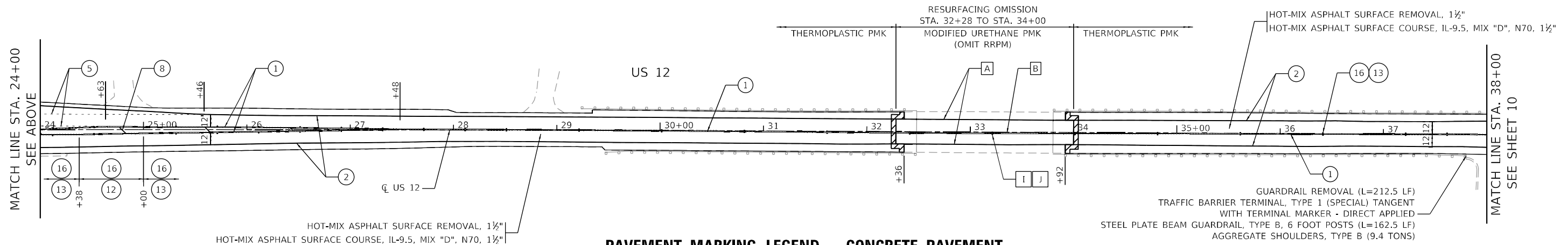
NOTES:

1. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
2. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).
3. EXISTING PAVEMENT MARKINGS ON BRIDGE DECKS SHALL BE REMOVED BY WATER BLASTING.



PAVEMENT MARKING LEGEND – HMA PAVEMENT

- | | | |
|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C) |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C) |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE) | ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID) | ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID) | ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE) |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE) | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C) | ⑱ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (80' C-C) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID) | ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C) | |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID) | | |



PLAN LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (4.5' TYP.)
- AGGREGATE WEDGE SHOULDER, TYPE B GRADING AND SHAPING SHOULDERS

PAVEMENT MARKING LEGEND – CONCRETE PAVEMENT

- | | |
|---|--|
| A MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE SOLID) | G MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING UNLESS NOTED, 5 MIN.) |
| B MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | H MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE SOLID) |
| C PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 7" (CONTRAST 10'-30' SKIP LINE) GROOVING FOR RECESSED PAVEMENT MARKING 8" | I RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL |
| D MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | J REPLACEMENT REFLECTOR (TWO-WAY AMBER REFLECTOR) |
| E MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE SOLID) | K REPLACEMENT REFLECTOR (ONE-WAY AMBER REFLECTOR) |
| F MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE) | L REPLACEMENT REFLECTOR (ONE-WAY CRYSTAL REFLECTOR) |

MODEL: D:\dwg\11... FILE: M:\p\c... PROJECT: 62T60... SHEET: 1 OF 13



USER NAME = jschumann	DESIGNED - JLS	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - JJD	REVISED -
PLOT DATE = 12/13/2023	DATE - 12-08-2023	REVISED -

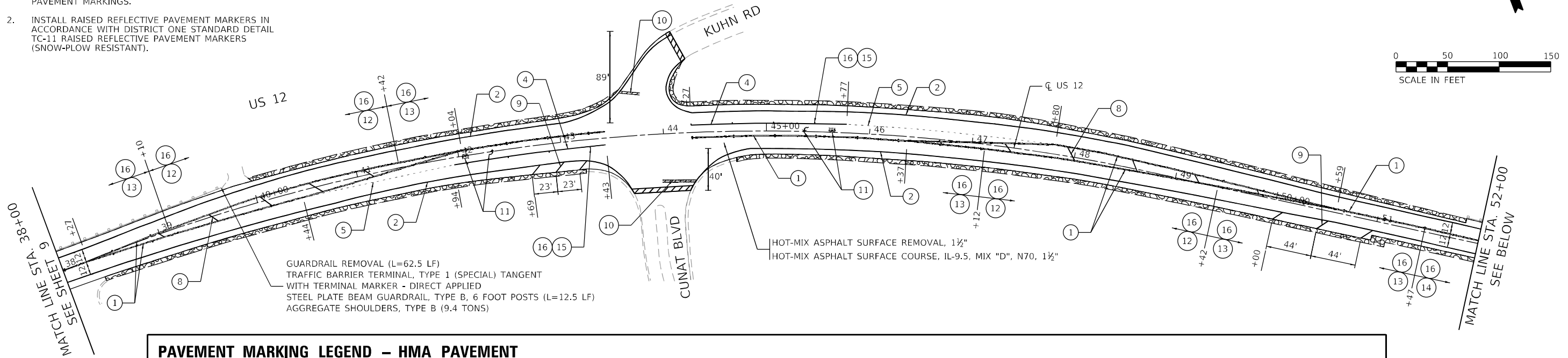
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RESURFACING AND PAVEMENT MARKING PLAN
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**
SCALE: 1"=50' SHEET 1 OF 13 SHEETS STA. 17+94 TO STA. 38+00

F.A.P. RTE. 334	SECTION FAP 0334 22 R52	COUNTY MCHENRY	TOTAL SHEETS 38	SHEET NO. 9
CONTRACT NO. 62T60			ILLINOIS FED. AID PROJECT Y131(761)	

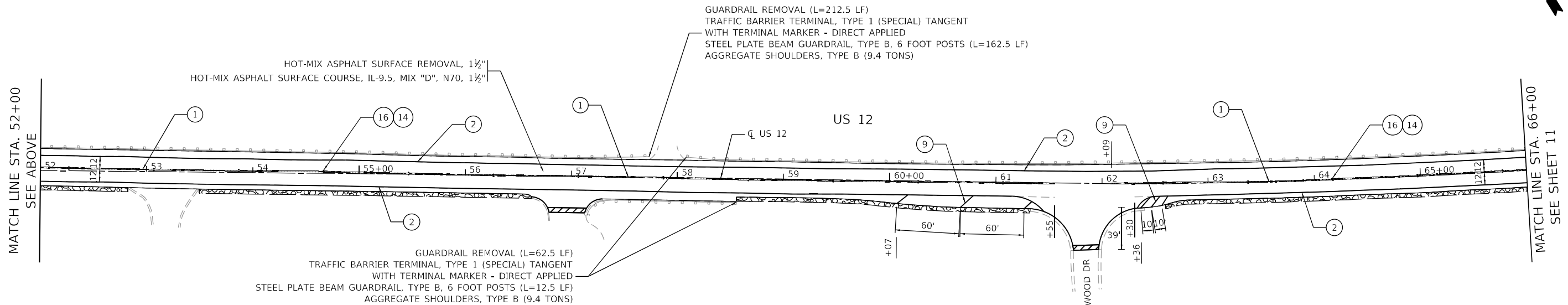
NOTES:

1. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
2. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).



PAVEMENT MARKING LEGEND – HMA PAVEMENT

- | | | |
|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C) |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C) |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE) | ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID) | ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID) | ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE) |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE) | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C) | ⑱ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID) | ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C) | ⑲ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (80' C-C) |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID) | | |



PLAN LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (4.5' TYP.)
- AGGREGATE WEDGE SHOULDER, TYPE B GRADING AND SHAPING SHOULDERS

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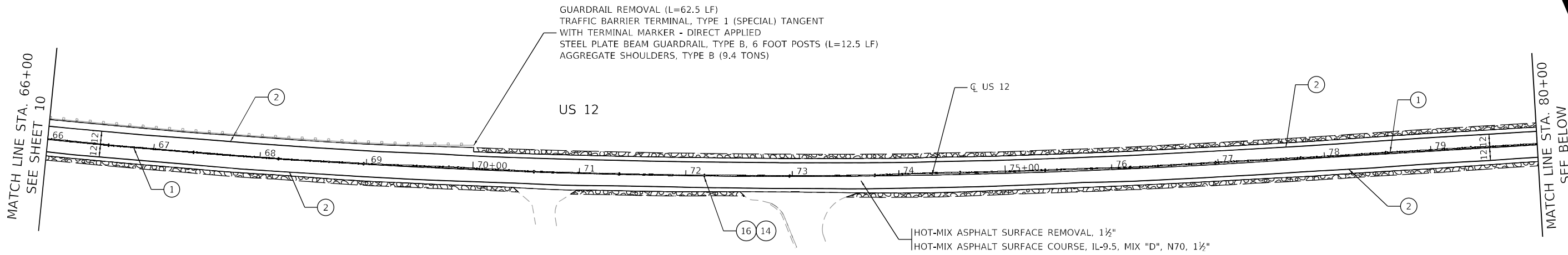
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PLOT SCALE = 100,0000' / in.	DRAWN - MA	REVISED -
PLOT DATE = 12/13/2023	CHECKED - JJD	REVISED -
	DATE - 12-08-2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RESURFACING AND PAVEMENT MARKING PLAN
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

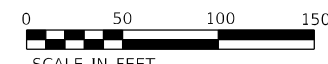
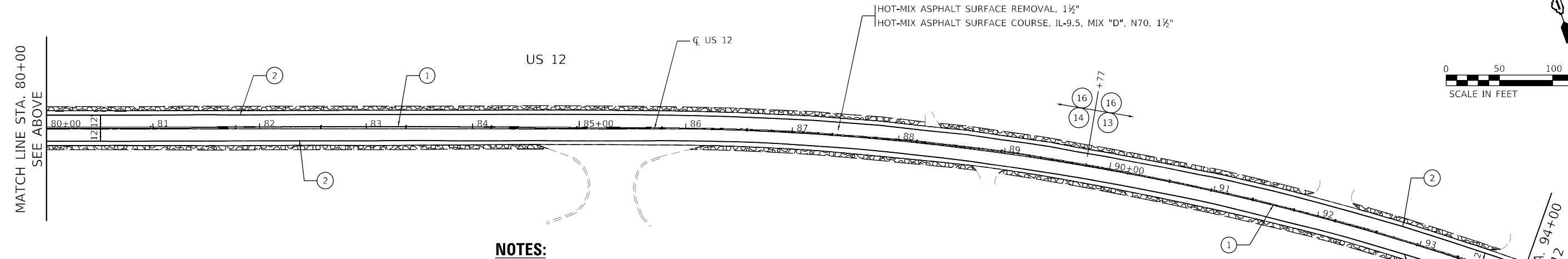
SCALE: 1"=50' SHEET 2 OF 13 SHEETS STA. 38+00 TO STA. 66+00

F.A.P. RTE. 334	SECTION FAP 0334 22 R52	COUNTY MCHENRY	TOTAL SHEETS 38	SHEET NO. 10
CONTRACT NO. 62T60			ILLINOIS FED. AID PROJECT Y131(761)	



PAVEMENT MARKING LEGEND – HMA PAVEMENT

- | | | |
|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C) |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C) |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE) | ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID) | ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID) | ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE) |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE) | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C) | ⑱ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID) | ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C) | ⑲ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (80' C-C) |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID) | | |



PLAN LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (4.5' TYP.)
- AGGREGATE WEDGE SHOULDER, TYPE B GRADING AND SHAPING SHOULDERS

NOTES:

1. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
2. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).

MODEL: D:\m\l... FILE: M:\m\p... 62T60\CADD\CADD_SHEET\US12\62T60-11.dwg



USER NAME = jschumann	DESIGNED - JLS	REVISED -
DRAWN - MA	REVISED -	
PLOT SCALE = 100,0000' / in.	CHECKED - JJD	REVISED -
PLOT DATE = 12/13/2023	DATE - 12-08-2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

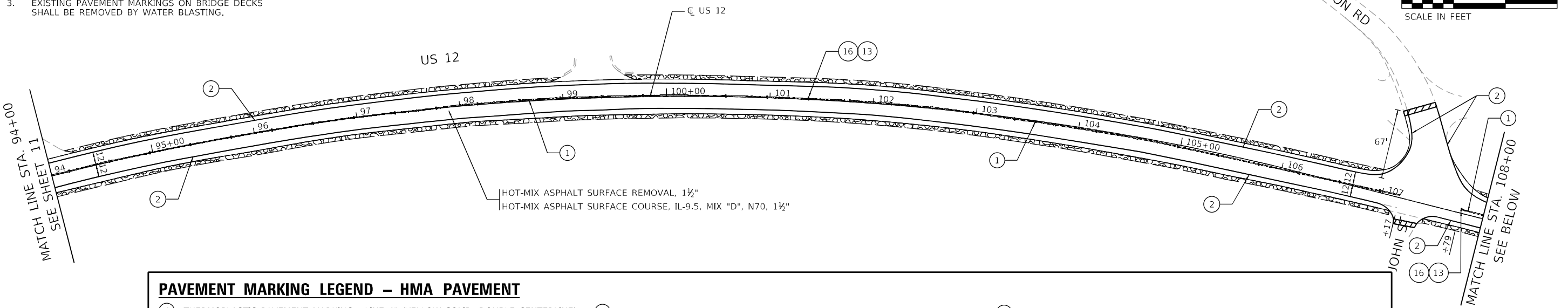
**RESURFACING AND PAVEMENT MARKING PLAN
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

SCALE: 1"=50' SHEET 3 OF 13 SHEETS STA. 66+00 TO STA. 94+00

F.A.P. RTE. 334	SECTION FAP 0334 22 R52	COUNTY MCHENRY	TOTAL SHEETS 38	SHEET NO. 11
CONTRACT NO. 62T60			ILLINOIS FED. AID PROJECT Y13J(761)	

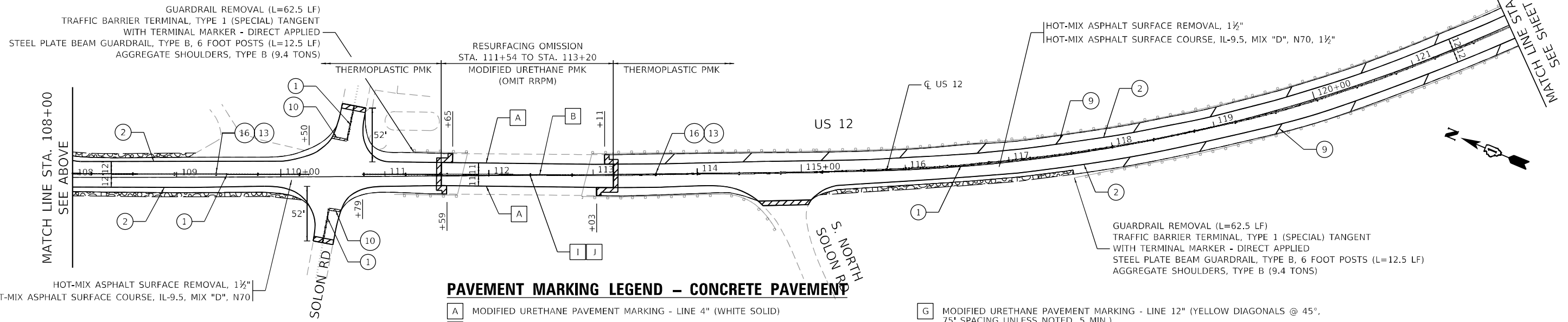
NOTES:

1. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
2. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).
3. EXISTING PAVEMENT MARKINGS ON BRIDGE DECKS SHALL BE REMOVED BY WATER BLASTING.



PAVEMENT MARKING LEGEND – HMA PAVEMENT

- | | | |
|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C) |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C) |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE) | ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID) | ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID) | ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE) |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE) | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C) | ⑱ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (80' C-C) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID) | ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C) | |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID) | | |



PLAN LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (4.5' TYP.)
- AGGREGATE WEDGE SHOULDER, TYPE B GRADING AND SHAPING SHOULDERS

PAVEMENT MARKING LEGEND – CONCRETE PAVEMENT

- | | |
|---|--|
| A MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE SOLID) | G MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING UNLESS NOTED, 5 MIN.) |
| B MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | H MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE SOLID) |
| C PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 7" (CONTRAST 10'-30' SKIP LINE) GROOVING FOR RECESSED PAVEMENT MARKING 8" | I RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL |
| D MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | J REPLACEMENT REFLECTOR (TWO-WAY AMBER REFLECTOR) |
| E MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE SOLID) | K REPLACEMENT REFLECTOR (ONE-WAY AMBER REFLECTOR) |
| F MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE) | L REPLACEMENT REFLECTOR (ONE-WAY CRYSTAL REFLECTOR) |

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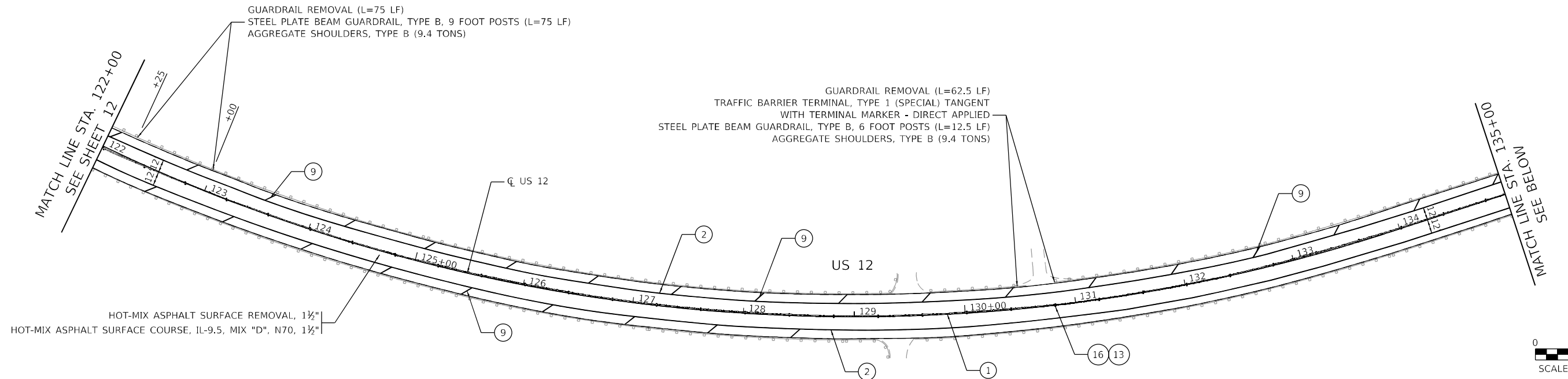
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DRAWN - MA	REVISIONS -	
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PLOT DATE = 12/13/2023	DATE - 12-08-2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RESURFACING AND PAVEMENT MARKING PLAN
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

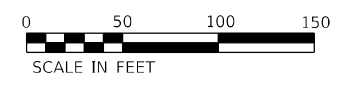
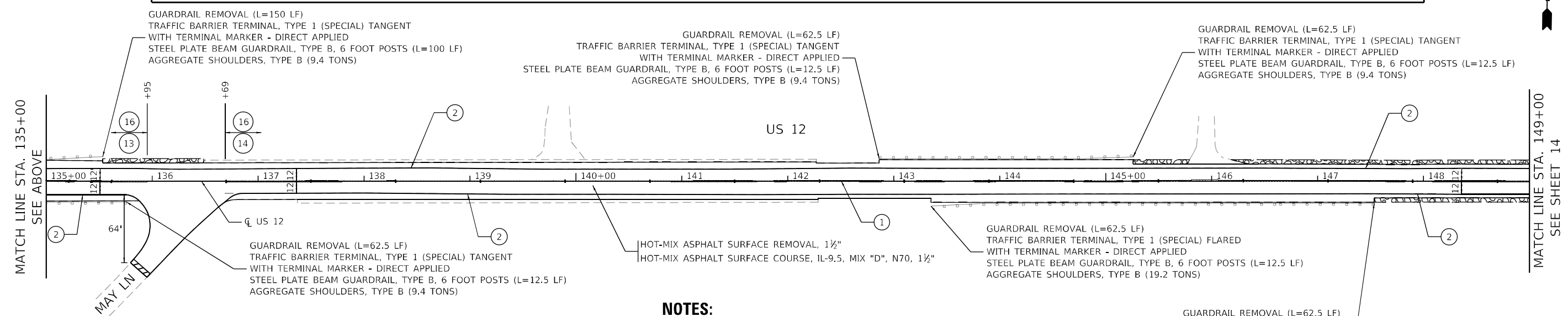
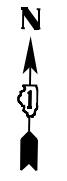
SCALE: 1"=50' SHEET 4 OF 13 SHEETS STA. 94+00 TO STA. 122+00

F.A.P. RTE. 334	SECTION FAP 0334 22 R52	COUNTY MCHENRY	TOTAL SHEETS 38	SHEET NO. 12
			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT Y131(761)				



PAVEMENT MARKING LEGEND – HMA PAVEMENT

- | | | |
|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C) |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C) |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE) | ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID) | ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID) | ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE) |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE) | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C) | ⑱ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID) | ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C) | |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID) | | |



PLAN LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (4.5' TYP.)
- AGGREGATE WEDGE SHOULDER, TYPE B GRADING AND SHAPING SHOULDERS

NOTES:

1. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
2. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).

MODEL: D:\dell\... FILE: M:\p\c... 62100\CADD\CADD_Sheet\US12\122700-149+00.dwg



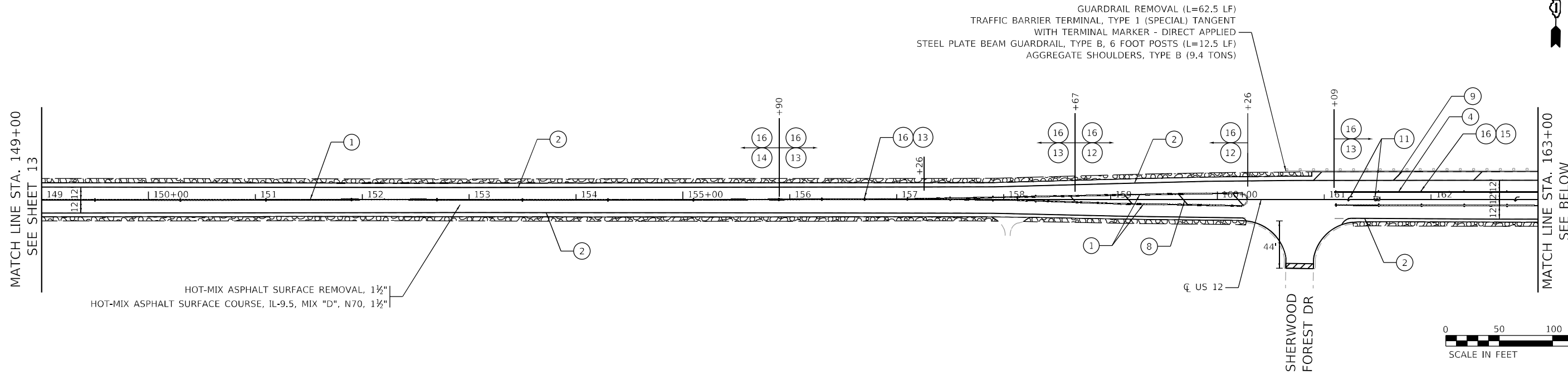
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PLOT DATE = 12/13/2023	DATE - 12-08-2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RESURFACING AND PAVEMENT MARKING PLAN
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

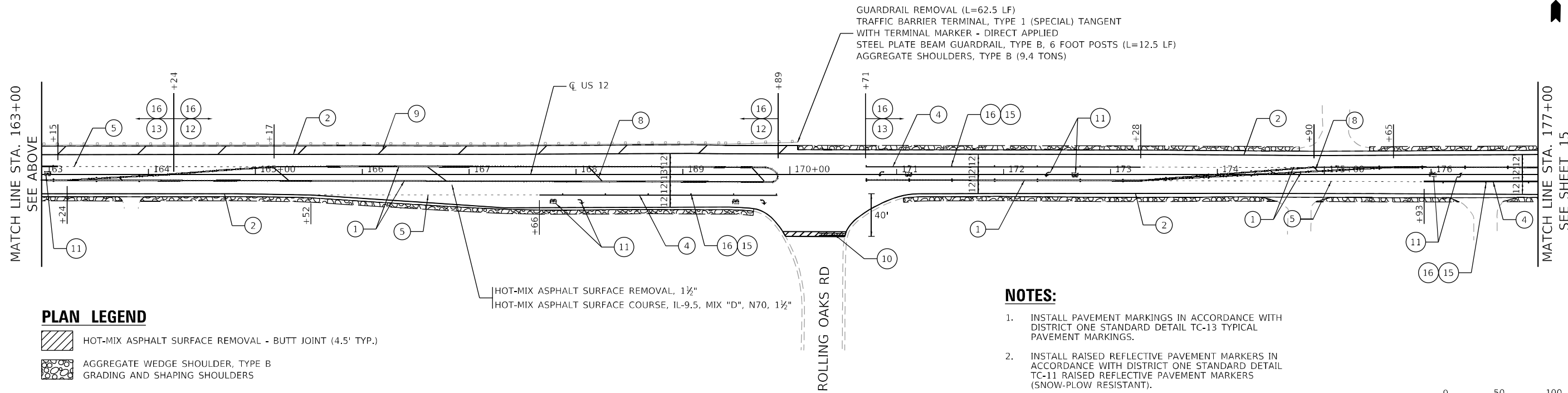
SCALE: 1"=50' SHEET 5 OF 13 SHEETS STA. 122+00 TO STA. 149+00

F.A.P. RTE. 334	SECTION FAP 0334 22 R52	COUNTY MCHENRY	TOTAL SHEETS 38	SHEET NO. 13
ILLINOIS FED. AID PROJECT Y3J(761)			CONTRACT NO. 62T60	



PAVEMENT MARKING LEGEND – HMA PAVEMENT

- | | | |
|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C) |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C) |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE) | ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID) | ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID) | ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE) |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE) | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C) | ⑱ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID) | ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C) | |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID) | | |



PLAN LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (4.5' TYP.)
- AGGREGATE WEDGE SHOULDER, TYPE B GRADING AND SHAPING SHOULDERS

NOTES:

1. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
2. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).

MODEL: D:\a\l... FILE: M:\b\c... 62T60\CADD\CADD_SHEET\US12\163T60-149\plan-06.dgn



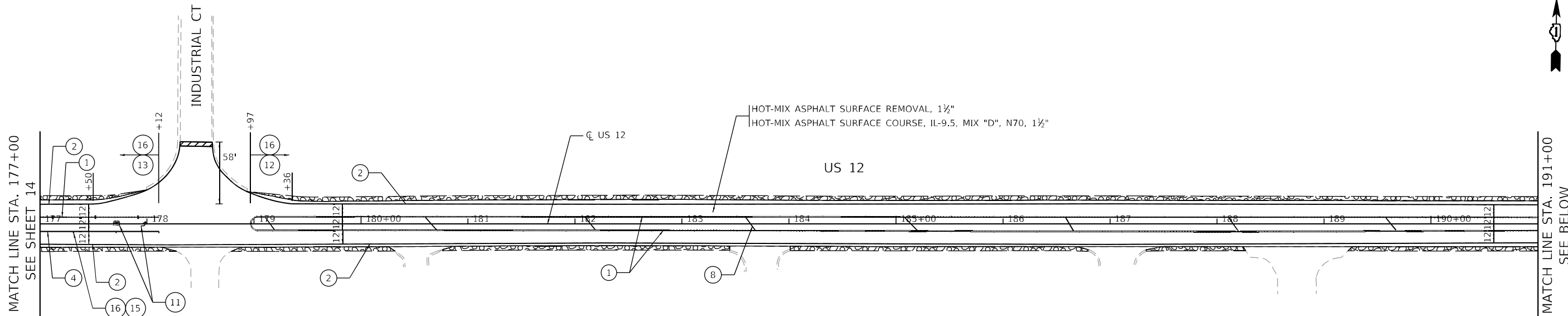
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	DATE - 12-08-2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RESURFACING AND PAVEMENT MARKING PLAN
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

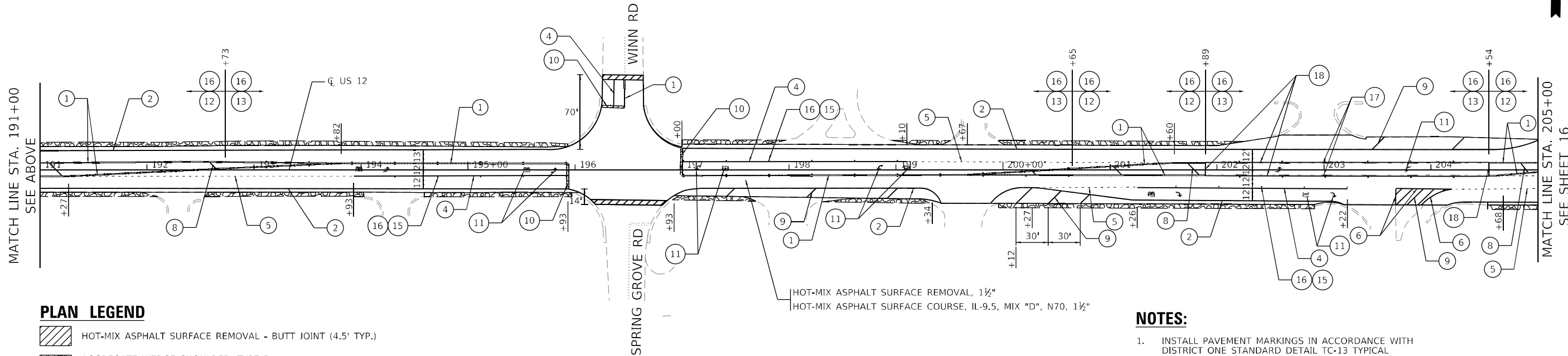
SCALE: 1"=50' SHEET 6 OF 13 SHEETS STA. 149+00 TO STA. 177+00

F.A.P. RTE. 334	SECTION FAP 0334 22 R52	COUNTY MCHENRY	TOTAL SHEETS 38	SHEET NO. 14
CONTRACT NO. 62T60			ILLINOIS FED. AID PROJECT Y131(761)	



PAVEMENT MARKING LEGEND – HMA PAVEMENT

- | | | |
|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C) |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C) |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE) | ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID) | ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID) | ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE) |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE) | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C) | ⑱ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID) | ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C) | |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID) | | |



PLAN LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (4.5' TYP.)
- AGGREGATE WEDGE SHOULDER, TYPE B GRADING AND SHAPING SHOULDERS

NOTES:

- INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
- INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).



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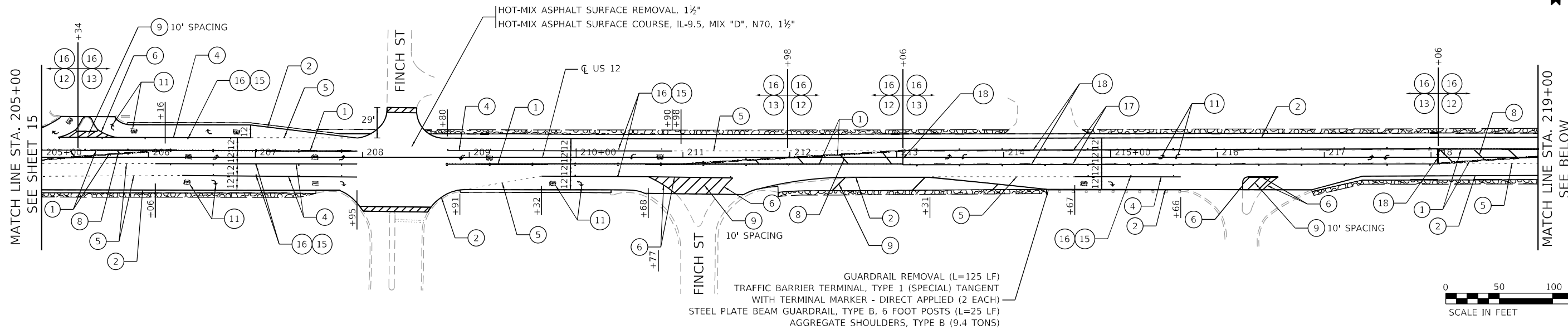
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PLOT DATE = 12/13/2023	DATE - 12-08-2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RESURFACING AND PAVEMENT MARKING PLAN
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

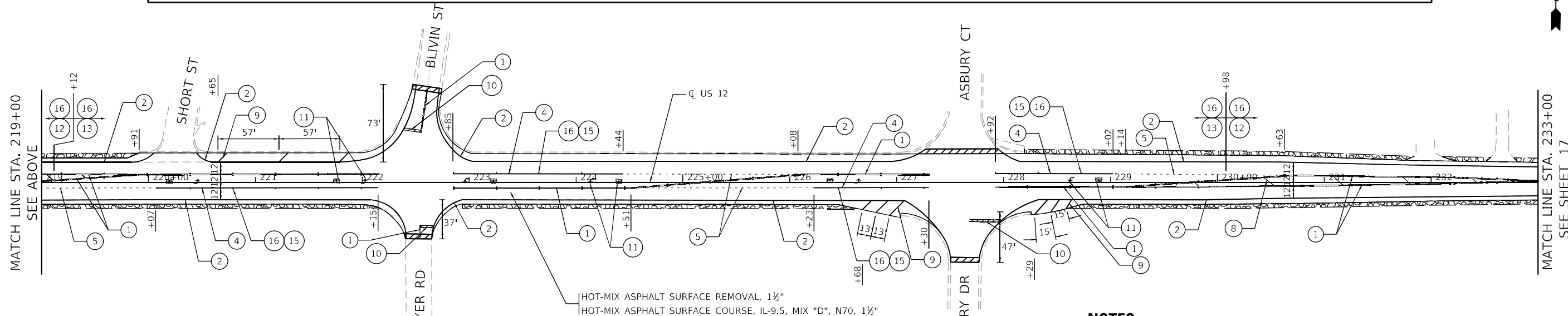
SCALE: 1"=50' SHEET 7 OF 13 SHEETS STA. 177+00 TO STA. 205+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	15
			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT Y131(761)				



PAVEMENT MARKING LEGEND - HMA PAVEMENT

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6' SKIP LINE)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)
- ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID)
- ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C)
- ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C)
- ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C)
- ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C)
- ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
- ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE)
- ⑱ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- ⑲ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (80 C-C)



PLAN LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (4.5' TYP.)
- AGGREGATE WEDGE SHOULDER, TYPE B GRADING AND SHAPING SHOULDERS

NOTES:

1. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
2. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).

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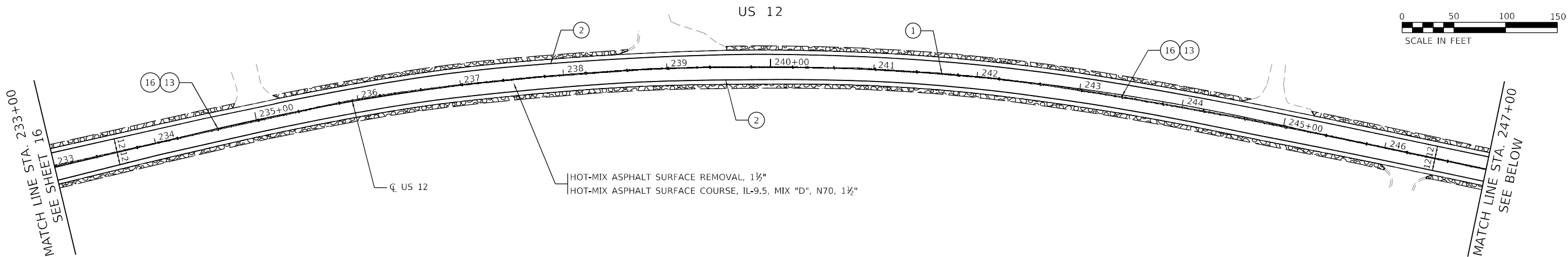
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PLOT DATE = 12/13/2023	DATE - 12-08-2023	REVISED -	

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RESURFACING AND PAVEMENT MARKING PLAN
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

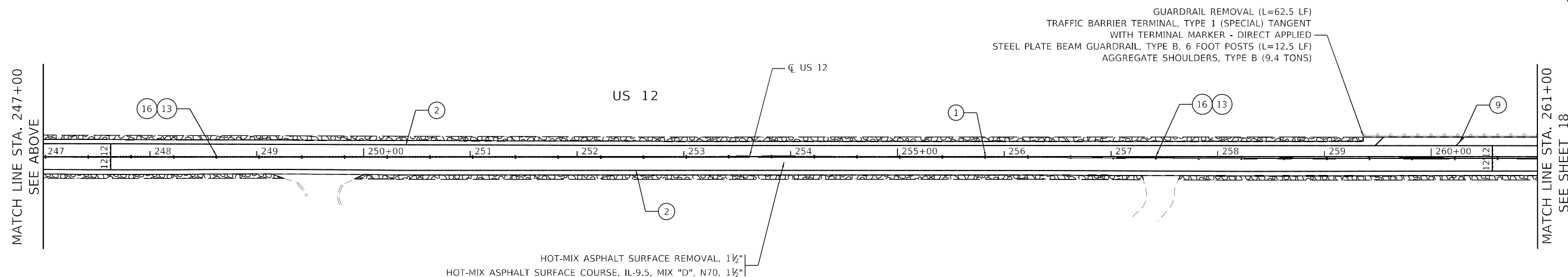
SCALE: 1"=50' SHEET 8 OF 13 SHEETS STA. 205+00 TO STA. 233+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	16
			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT Y131(761)				



PAVEMENT MARKING LEGEND – HMA PAVEMENT

- | | | |
|--|--|--|
| ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE) | ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C) |
| ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID) | ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS) | ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C) |
| ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE) | ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE) | ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL |
| ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID) | ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID) | ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE) |
| ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE) | ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C) | ⑱ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID) |
| ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID) | ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C) | |
| ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID) | | |



PLAN LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (4.5' TYP.)
- AGGREGATE WEDGE SHOULDER, TYPE B GRADING AND SHAPING SHOULDERS

NOTES:

1. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
2. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).
3. PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH: LEFT SIDE FROM STA. 233+00 TO STA. 347+20 RIGHT SIDE FROM STA. 233+00 TO STA. 348+64
4. PROPOSED CENTER LINE - RUMBLE STRIP - 16" FROM STA. 233+00 TO STA. 350+15.
5. PAVEMENT MARKINGS ALONG CENTER LINE RUMBLE STRIPS SHALL BE HOT SPRAY THERMOPLASTIC.

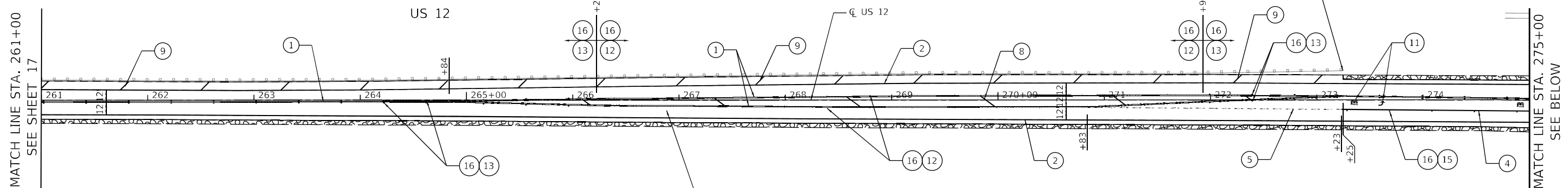
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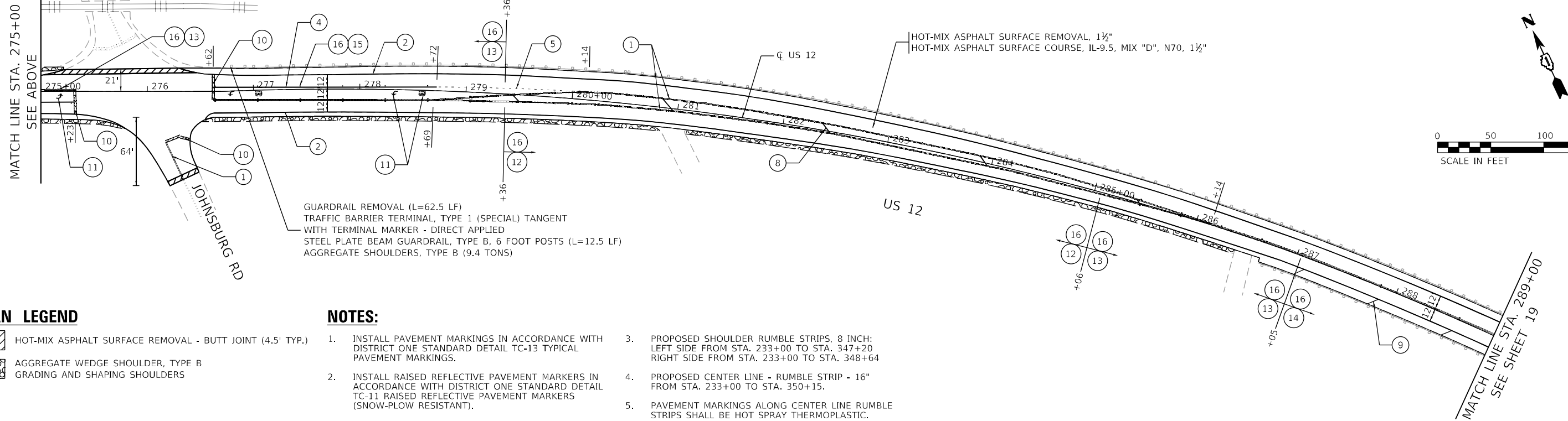
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PLOT DATE = 12/13/2023	DATE - 12-08-2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RESURFACING AND PAVEMENT MARKING PLAN US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		334	FAP 0334 22 R52	MCHENRY	38	17
SCALE: 1"=50'		SHEET 9 OF 13 SHEETS		STA. 233+00 TO STA. 261+00		CONTRACT NO. 62T60
ILLINOIS FED. AID PROJECT Y13J1761J						



PAVEMENT MARKING LEGEND - HMA PAVEMENT					
①	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE)	⑧	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)	⑭	RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C)
②	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)	⑨	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)	⑮	RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C)
③	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE)	⑩	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)	⑯	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
④	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID)	⑪	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID)	⑰	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE)
⑤	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE)	⑫	RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C)	⑱	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
⑥	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)	⑬	RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C)		
⑦	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)				



PLAN LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (4.5' TYP.)
- AGGREGATE WEDGE SHOULDER, TYPE B GRADING AND SHAPING SHOULDERS

NOTES:

1. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
2. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).
3. PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH: LEFT SIDE FROM STA. 233+00 TO STA. 347+20 RIGHT SIDE FROM STA. 233+00 TO STA. 348+64
4. PROPOSED CENTER LINE - RUMBLE STRIP - 16" FROM STA. 233+00 TO STA. 350+15.
5. PAVEMENT MARKINGS ALONG CENTER LINE RUMBLE STRIPS SHALL BE HOT SPRAY THERMOPLASTIC.

MODEL: D:\m\l... FILE: MCHENRY... 62T60\CADD\CADD_SHEET\US12\62T60-11.dwg



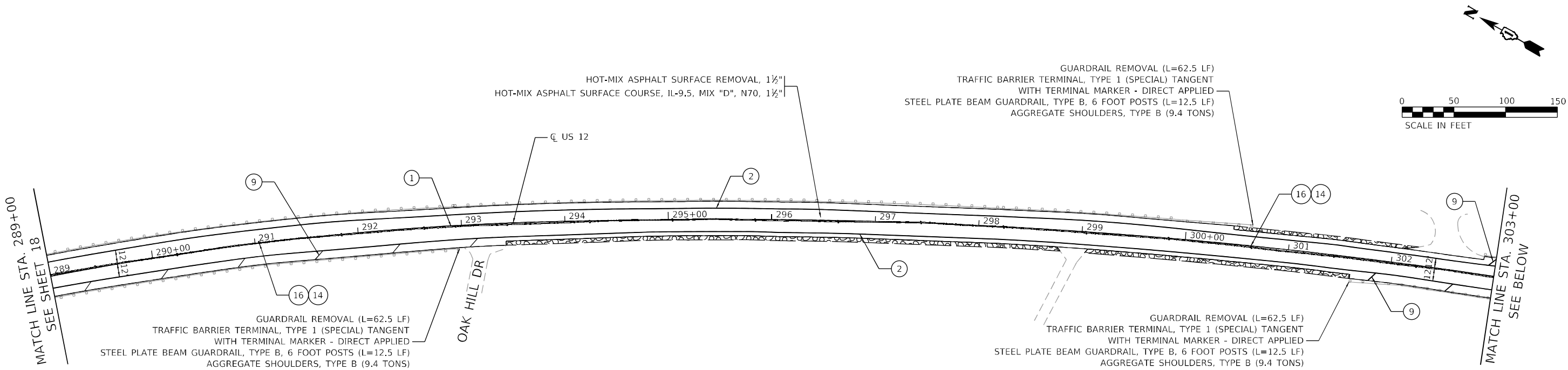
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PLOT SCALE = 100,0000' / in.	DRAWN - MA	REVISED -
PLOT DATE = 12/13/2023	CHECKED - JJD	REVISED -
	DATE - 12-08-2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

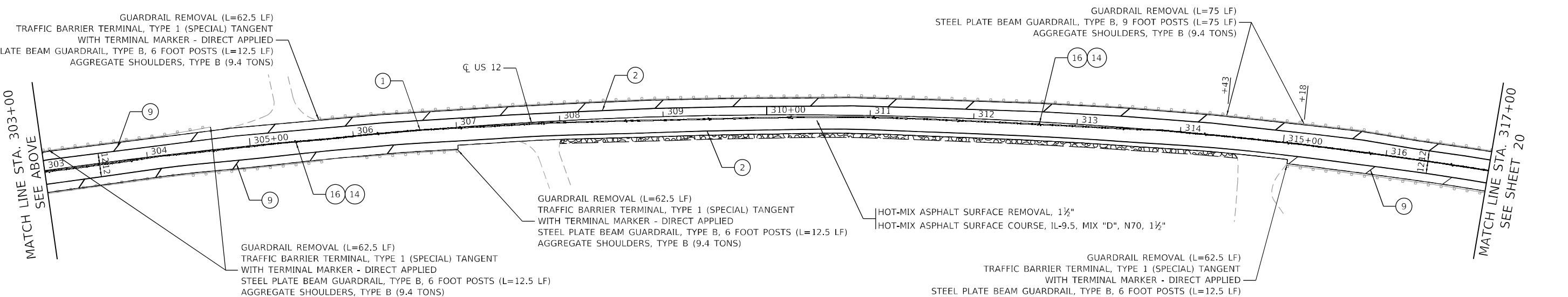
**RESURFACING AND PAVEMENT MARKING PLAN
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

SCALE: 1"=50' SHEET 10 OF 13 SHEETS STA. 261+00 TO STA. 289+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	18
			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT Y3J(761)				



PAVEMENT MARKING LEGEND - HMA PAVEMENT					
①	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE)	⑧	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)	⑭	RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C)
②	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)	⑨	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)	⑮	RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C)
③	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE)	⑩	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)	⑯	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
④	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID)	⑪	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID)	⑰	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE)
⑤	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE)	⑫	RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C)	⑱	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
⑥	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)	⑬	RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C)		
⑦	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)				



PLAN LEGEND

	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (4.5' TYP.)
	AGGREGATE WEDGE SHOULDER, TYPE B GRADING AND SHAPING SHOULDERS

- NOTES:**
- INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
 - INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).
 - PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH: LEFT SIDE FROM STA. 233+00 TO STA. 347+20 RIGHT SIDE FROM STA. 233+00 TO STA. 348+64
 - PROPOSED CENTER LINE - RUMBLE STRIP - 16" FROM STA. 233+00 TO STA. 350+15.
 - PAVEMENT MARKINGS ALONG CENTER LINE RUMBLE STRIPS SHALL BE HOT SPRAY THERMOPLASTIC.

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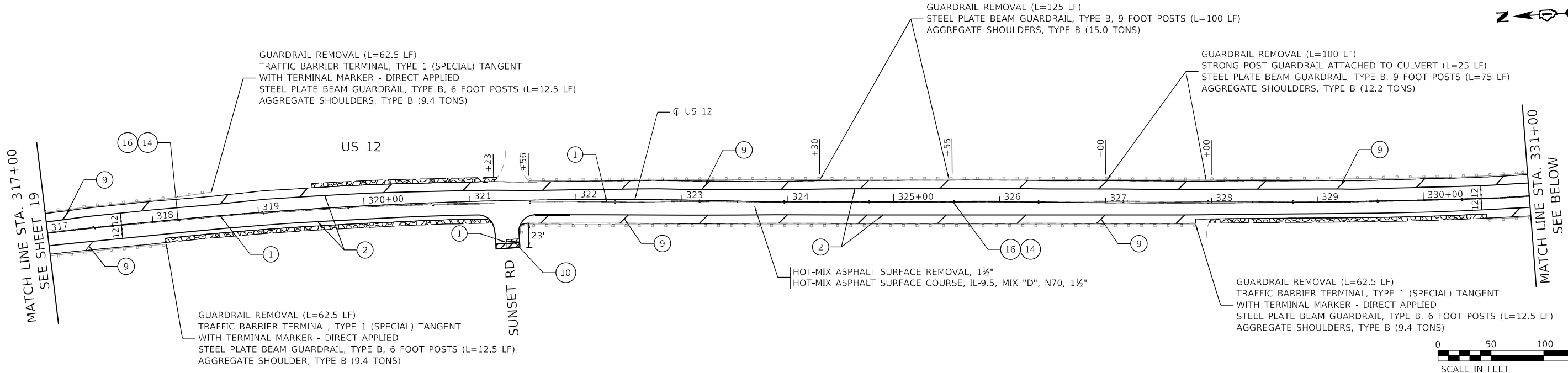
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	DATE - 12-08-2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

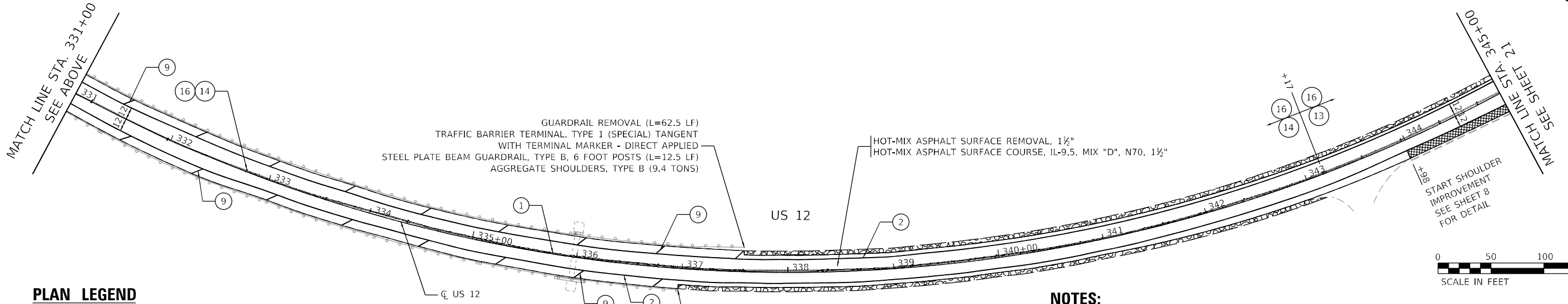
**RESURFACING AND PAVEMENT MARKING PLAN
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

SCALE: 1"=50' SHEET 11 OF 13 SHEETS STA. 289+00 TO STA. 317+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	19
CONTRACT NO. 62T60				
ILLINOIS FED. AID PROJECT Y131(761)				



PAVEMENT MARKING LEGEND - HMA PAVEMENT					
①	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE)	⑧	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)	⑭	RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C)
②	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)	⑨	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)	⑮	RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C)
③	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE)	⑩	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)	⑯	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
④	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID)	⑪	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID)	⑰	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE)
⑤	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE)	⑫	RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C)	⑱	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
⑥	THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)	⑬	RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C)		
⑦	THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)				



PLAN LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (4.5' TYP.)
- AGGREGATE WEDGE SHOULDER, TYPE B GRADING AND SHAPING SHOULDERS
- CONCRETE PAVEMENT SCARIFICATION, 1 1/2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"

NOTES:

1. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
2. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).
3. PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH: LEFT SIDE FROM STA. 233+00 TO STA. 347+20 RIGHT SIDE FROM STA. 233+00 TO STA. 348+64
4. PROPOSED CENTER LINE - RUMBLE STRIP - 16" FROM STA. 233+00 TO STA. 350+15.
5. PAVEMENT MARKINGS ALONG CENTER LINE RUMBLE STRIPS SHALL BE HOT SPRAY THERMOPLASTIC.

MODEL: D:\dell\... FILE: M:\... 62T60\CADD\CADD_SHEET\US12\62T60-11.dwg



USER NAME = jschumann	DESIGNED - JLS	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - JJD	REVISED -
PLOT DATE = 12/13/2023	DATE - 12-08-2023	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RESURFACING AND PAVEMENT MARKING PLAN	
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD	
SCALE: 1"=50'	SHEET 12 OF 13 SHEETS
STA. 317+00	TO STA. 345+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	20
CONTRACT NO. 62T60				
ILLINOIS FED. AID PROJECT Y1317611				

MATCH LINE STA. 345+00
SEE SHEET 20

NIPPERSINK CANOE BASE
CONSERVATION AREA

GUARDRAIL REMOVAL (L=62.5 LF)
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
WITH TERMINAL MARKER - DIRECT APPLIED
STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS (L=12.5 LF)
AGGREGATE SHOULDERS, TYPE B (9.4 TONS)

GUARDRAIL REMOVAL (L=62.5 LF)
TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
WITH TERMINAL MARKER - DIRECT APPLIED
STEEL PLATE BEAM GUARDRAIL, TYPE B, 6 FOOT POSTS (L=12.5 LF)
AGGREGATE SHOULDERS, TYPE B (9.4 TONS)

RESURFACING OMISSION
STA. 356+72 TO STA. 364+23
MODIFIED URETHANE PMK
AND PREFORMED PLASTIC PMK
(OMIT RRPM)



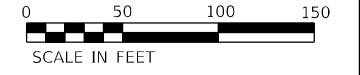
MATCH LINE STA. 359+00
SEE BELOW

PLAN LEGEND

- HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (4.5' TYP.)
- AGGREGATE WEDGE SHOULDER, TYPE B
GRADING AND SHAPING SHOULDERS
- CONCRETE PAVEMENT SCARIFICATION, 1 1/2"
- HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70, 1 1/2"

PAVEMENT MARKING LEGEND - HMA PAVEMENT

- ① THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE)
- ② THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- ③ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (WHITE 10'-30' SKIP LINE)
- ④ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE SOLID)
- ⑤ THERMOPLASTIC PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE)
- ⑥ THERMOPLASTIC PAVEMENT MARKING - LINE 8" (WHITE SOLID)
- ⑦ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE SOLID)
- ⑧ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)
- ⑨ THERMOPLASTIC PAVEMENT MARKING - LINE 12" (WHITE DIAGONALS @ 45°, 75' SPACING, UNLESS NOTED IN THE PLANS)
- ⑩ THERMOPLASTIC PAVEMENT MARKING - LINE 24" (WHITE STOP LINE)
- ⑪ THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS (WHITE SOLID)
- ⑫ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY AMBER MARKER) (40' C-C)
- ⑬ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (40' C-C)
- ⑭ RAISED REFLECTIVE PAVEMENT MARKER (TWO-WAY AMBER MARKER) (80' C-C)
- ⑮ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (40' C-C)
- ⑯ RAISED REFLECTIVE PAVEMENT MARKER REMOVAL
- ⑰ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW 10'-30' SKIP LINE)
- ⑱ THERMOPLASTIC PAVEMENT MARKING - LINE 4" (YELLOW SOLID)
- ⑲ RAISED REFLECTIVE PAVEMENT MARKER (ONE-WAY CRYSTAL MARKER) (80 C-C)



MATCH LINE STA. 359+00
SEE ABOVE

GUARDRAIL REMOVAL (L=50 LF)
TRAFFIC BARRIER TERMINAL, TYPE 6
STEEL PLATE BEAM GUARDRAIL,
TYPE B, 6 FOOT POSTS (L=12.5 LF)
AGGREGATE SHOULDERS, TYPE B (9.4 TONS)

GRAY ST

**PROJECT ENDS
STA. 369 + 94**

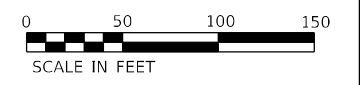


NOTES:

1. INSTALL PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-13 TYPICAL PAVEMENT MARKINGS.
2. INSTALL RAISED REFLECTIVE PAVEMENT MARKERS IN ACCORDANCE WITH DISTRICT ONE STANDARD DETAIL TC-11 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT).
3. EXISTING PAVEMENT MARKINGS ON BRIDGE DECKS SHALL BE REMOVED BY WATER BLASTING.
4. PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH: LEFT SIDE FROM STA. 233+00 TO STA. 347+20 RIGHT SIDE FROM STA. 233+00 TO STA. 348+64
5. PROPOSED CENTER LINE - RUMBLE STRIP - 16" FROM STA. 233+00 TO STA. 350+15.
6. PAVEMENT MARKINGS ALONG CENTER LINE RUMBLE STRIPS SHALL BE HOT SPRAY THERMOPLASTIC.

PAVEMENT MARKING LEGEND - CONCRETE PAVEMENT

- A MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (WHITE SOLID)
- B MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE)
- C PREFORMED PLASTIC PAVEMENT MARKING, TYPE D - LINE 7" (CONTRAST 10'-30' SKIP LINE) GROOVING FOR RECESSED PAVEMENT MARKING 8"
- D MODIFIED URETHANE PAVEMENT MARKING - LINE 4" (YELLOW SOLID, DOUBLE CENTERLINE)
- E MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE SOLID)
- F MODIFIED URETHANE PAVEMENT MARKING - LINE 6" (WHITE 2'-6" SKIP LINE)
- G MODIFIED URETHANE PAVEMENT MARKING - LINE 12" (YELLOW DIAGONALS @ 45°, 75' SPACING UNLESS NOTED, 5 MIN.)
- H MODIFIED URETHANE PAVEMENT MARKING - LETTERS AND SYMBOLS (WHITE SOLID)
- I RAISED REFLECTIVE PAVEMENT MARKER, REFLECTOR REMOVAL
- J REPLACEMENT REFLECTOR (TWO-WAY AMBER REFLECTOR)
- K REPLACEMENT REFLECTOR (ONE-WAY AMBER REFLECTOR)
- L REPLACEMENT REFLECTOR (ONE-WAY CRYSTAL REFLECTOR)



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USER NAME = jschumann	DESIGNED - JLS	REVISED -
	DRAWN - MA	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED - JJD	REVISED -
PLOT DATE = 12/13/2023	DATE - 12-08-2023	REVISED -

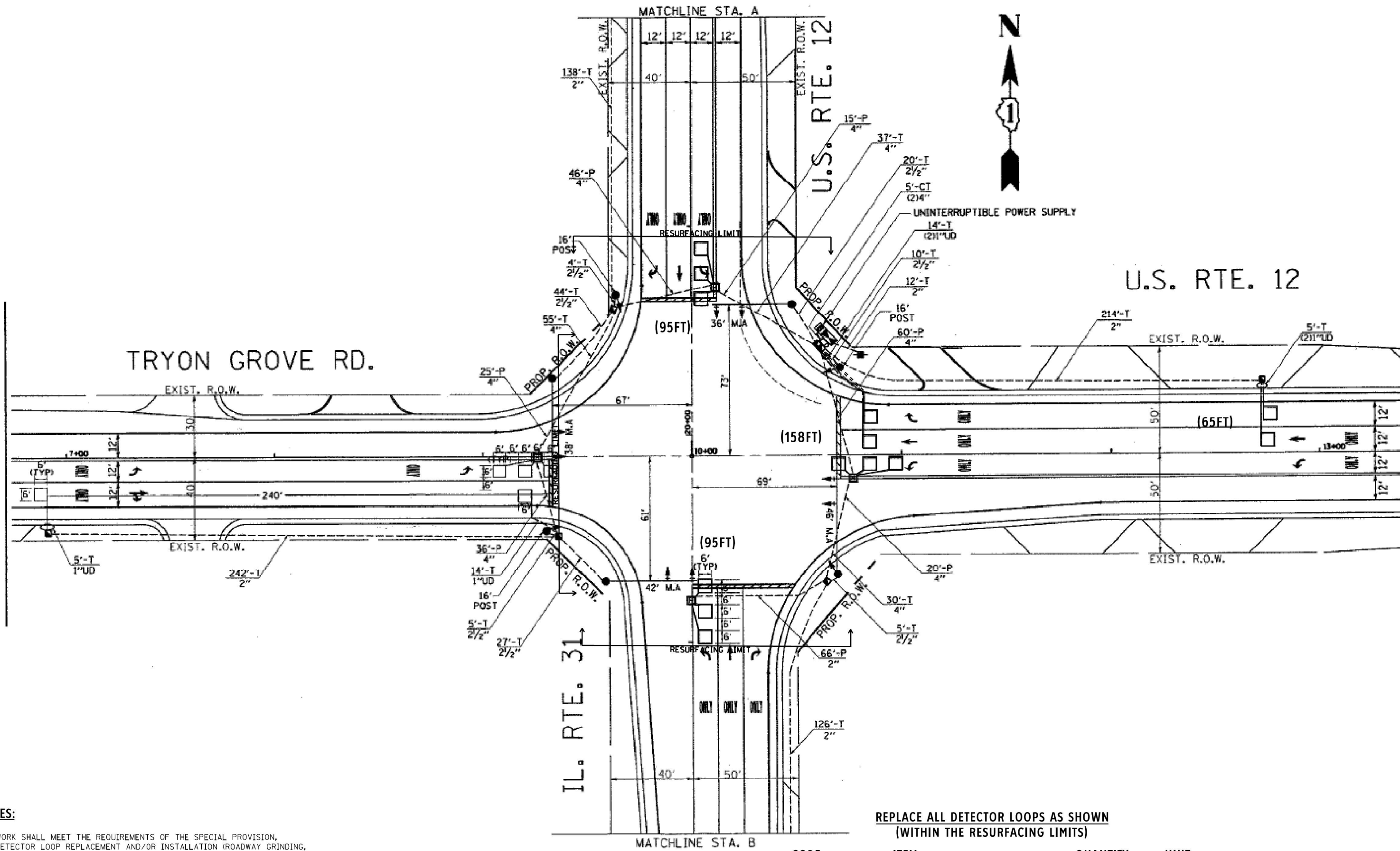
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RESURFACING AND PAVEMENT MARKING PLAN
US ROUTE 12 (SMART OVERLAY) IL 31 TO STATE PARK RD**

SCALE: 1"=50' SHEET 13 OF 13 SHEETS STA. 345+00 TO STA. 369+94

F.A.P. RTE. 334	SECTION FAP 0334 22 R52	COUNTY MCHENRY	TOTAL SHEETS 38	SHEET NO. 21
CONTRACT NO. 62T60			ILLINOIS FED. AID PROJECT Y131(761)	

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 PLOT DATE: 8/24/2022



NOTES:

- 1.- WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
- 2.- THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	413	FOOT

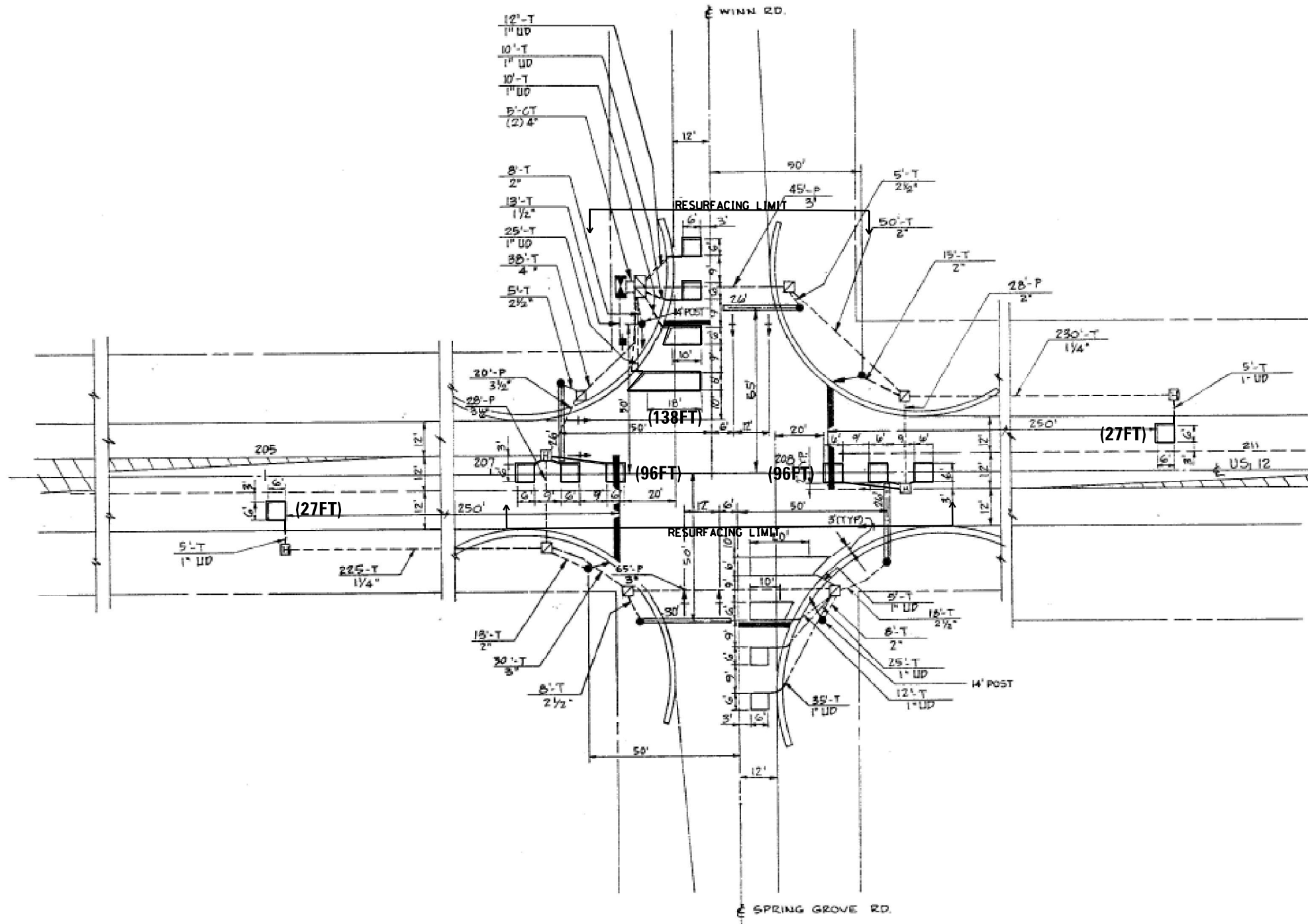
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USER NAME = Gonzalo Meza	DESIGNED - Steven M. Nguyen	REVISED -
	DRAWN - Gonzalo Meza	REVISED -
PLOT SCALE = 40.0000' / 1"	CHECKED - Steven M. Nguyen	REVISED -
PLOT DATE = 8/24/2022	DATE - 08/17/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETECTOR LOOP REPLACEMENT PLAN US ROUTE 12 AT IL 31	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 334	SECTION FAP 0334 22 R52	COUNTY MCHENRY	TOTAL SHEETS 38	SHEET NO. 22
				CONTRACT NO. 62T60
ILLINOIS FED. AID PROJECT Y131(761)				



NOTES:

- 1.- WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
- 2.- THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

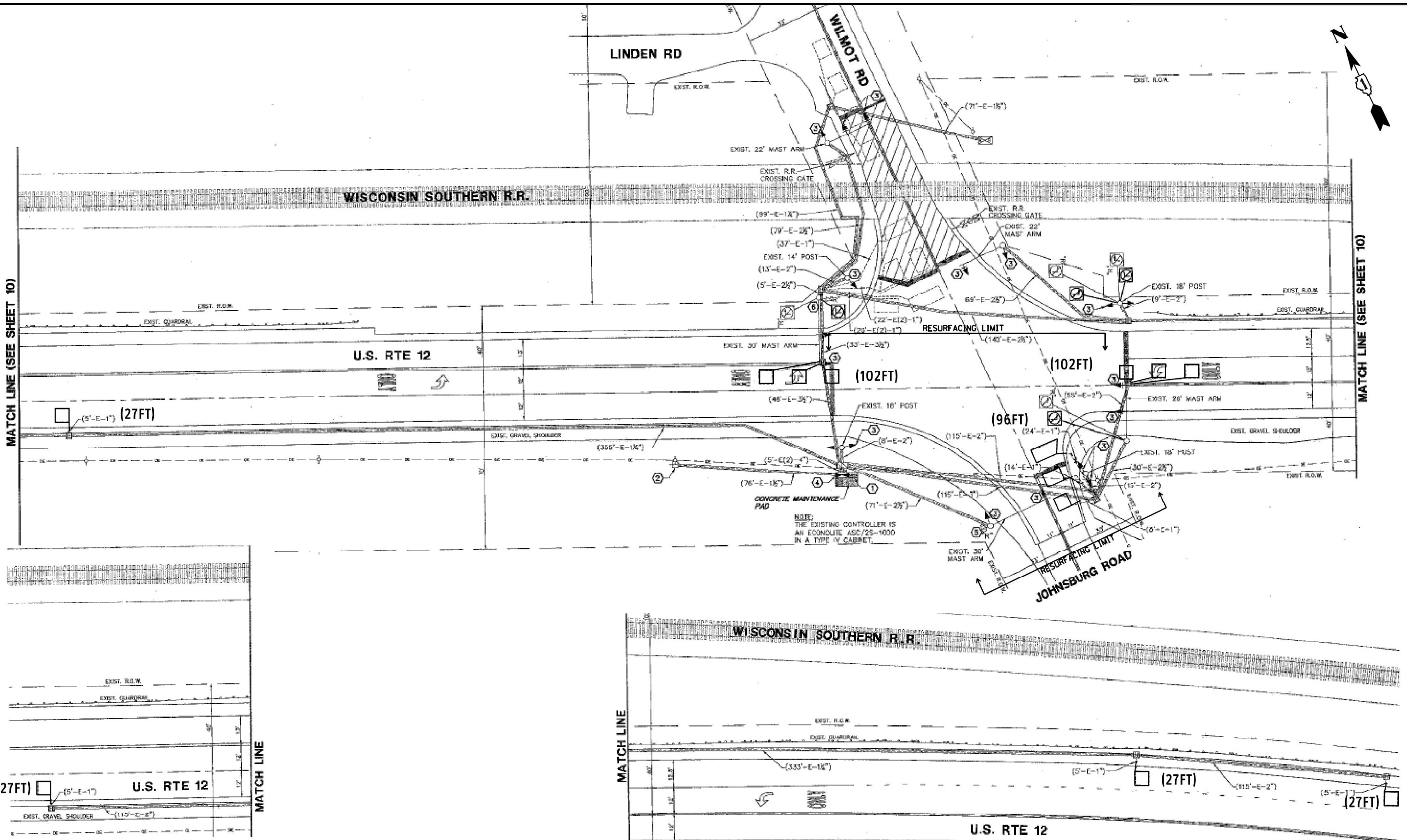
CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	384	FOOT

TS#7225

MODEL 2 - US 12 and Winn Rd
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STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN US ROUTE 12 AT WINN RD.	<table border="1" style="width: 100%; font-size: small;"> <tr> <th>F.A. RTE.</th> <th>SECTION</th> <th>COUNTY</th> <th>TOTAL SHEETS</th> <th>SHEET NO.</th> </tr> <tr> <td>334</td> <td>FAP 0334 22 R52</td> <td>MCHENRY</td> <td>38</td> <td>23</td> </tr> <tr> <td colspan="5" style="text-align: center;">CONTRACT NO. 62T60</td> </tr> <tr> <td colspan="2" style="text-align: center;">SCALE:</td> <td colspan="3" style="text-align: center;">SHEET OF SHEETS STA. TO STA.</td> </tr> <tr> <td colspan="5" style="text-align: right;">ILLINOIS FED. AID PROJECT</td> </tr> </table>	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	334	FAP 0334 22 R52	MCHENRY	38	23	CONTRACT NO. 62T60					SCALE:		SHEET OF SHEETS STA. TO STA.			ILLINOIS FED. AID PROJECT				
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.																							
334	FAP 0334 22 R52	MCHENRY	38	23																							
CONTRACT NO. 62T60																											
SCALE:		SHEET OF SHEETS STA. TO STA.																									
ILLINOIS FED. AID PROJECT																											
USER NAME = jschu DESIGNED - Steven M. Nguyen DRAWN - Gonzalo Meza PLOT SCALE = 100,0000' / in. PLOT DATE = 12/13/2023	REVISIONS: REVISION NO. DATE REVISION REVISION 1 08/17/2022 REVISION 2 REVISION 3 REVISION 4																										

MODEL 3 - US 12 and Wilmot Rd.
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NOTES:

- 1.- WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
- 2.- THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

**REPLACE ALL DETECTOR LOOPS AS SHOWN
 (WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	408	FOOT

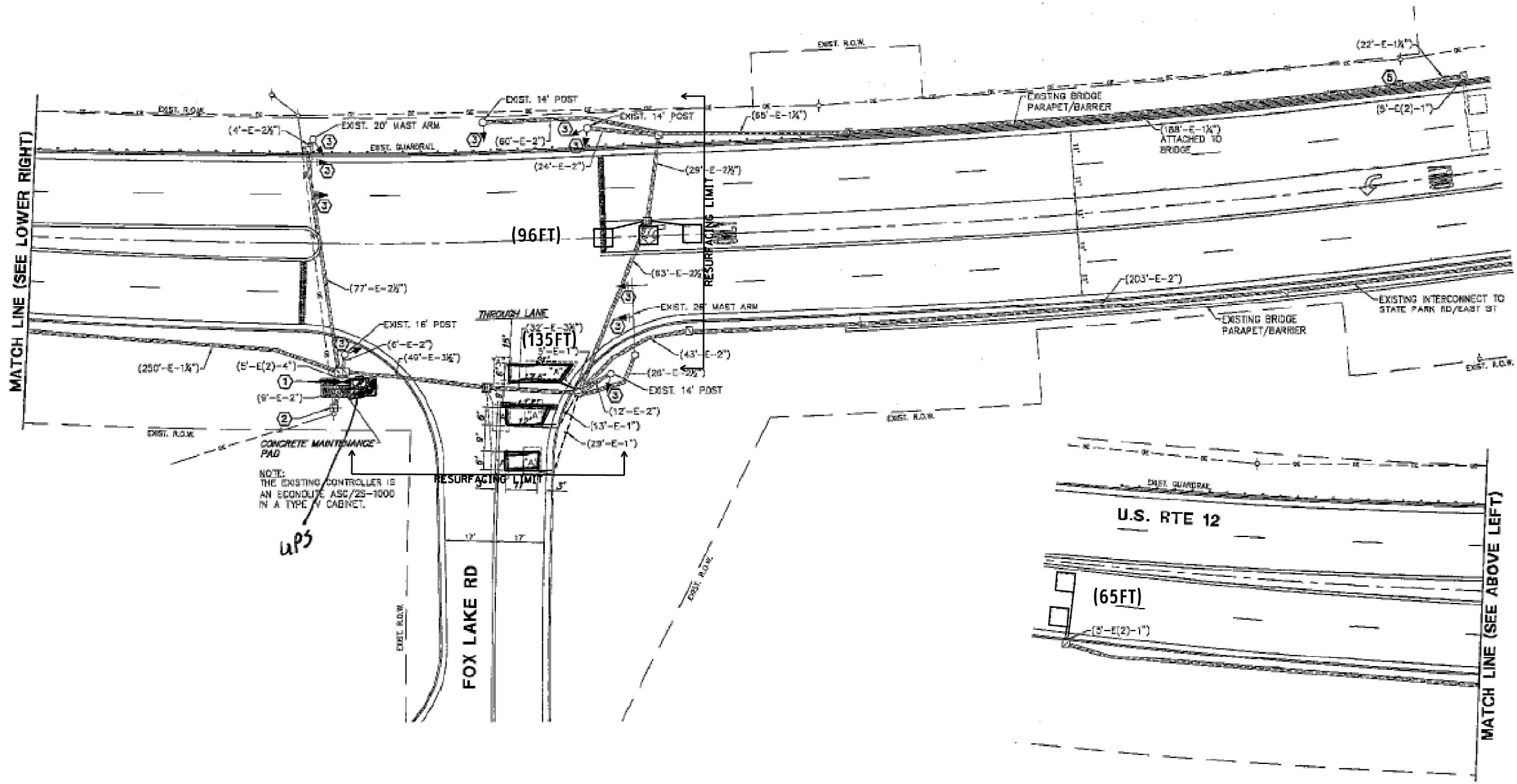
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USER NAME = Gonzalo Meza	DESIGNED - Steven M. Nguyen	REVISED -
	DRAWN - Gonzalo Meza	REVISED -
PLOT SCALE = 40,0000' / 1"	CHECKED - Steven M. Nguyen	REVISED -
PLOT DATE = 8/24/2022	DATE - 08/17/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DETECTOR LOOP REPLACEMENT PLAN US ROUTE 12 AT WILMOT RD.	
SCALE:	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	24
CONTRACT NO. 62T60				
ILLINOIS FED. AID PROJECT Y13I(761)				



NOTES:

- 1.- WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS).
- 2.- THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	296	FOOT

TS#7220

MODEL 4 - US 12 and Fox Lake Rd
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	DRAWN - Gonzalo Meza	REVISED -
PLOT SCALE = 40,0000' / 1"	CHECKED - Steven M. Nguyen	REVISED -
PLOT DATE = 8/24/2022	DATE - 08/17/2022	REVISED -

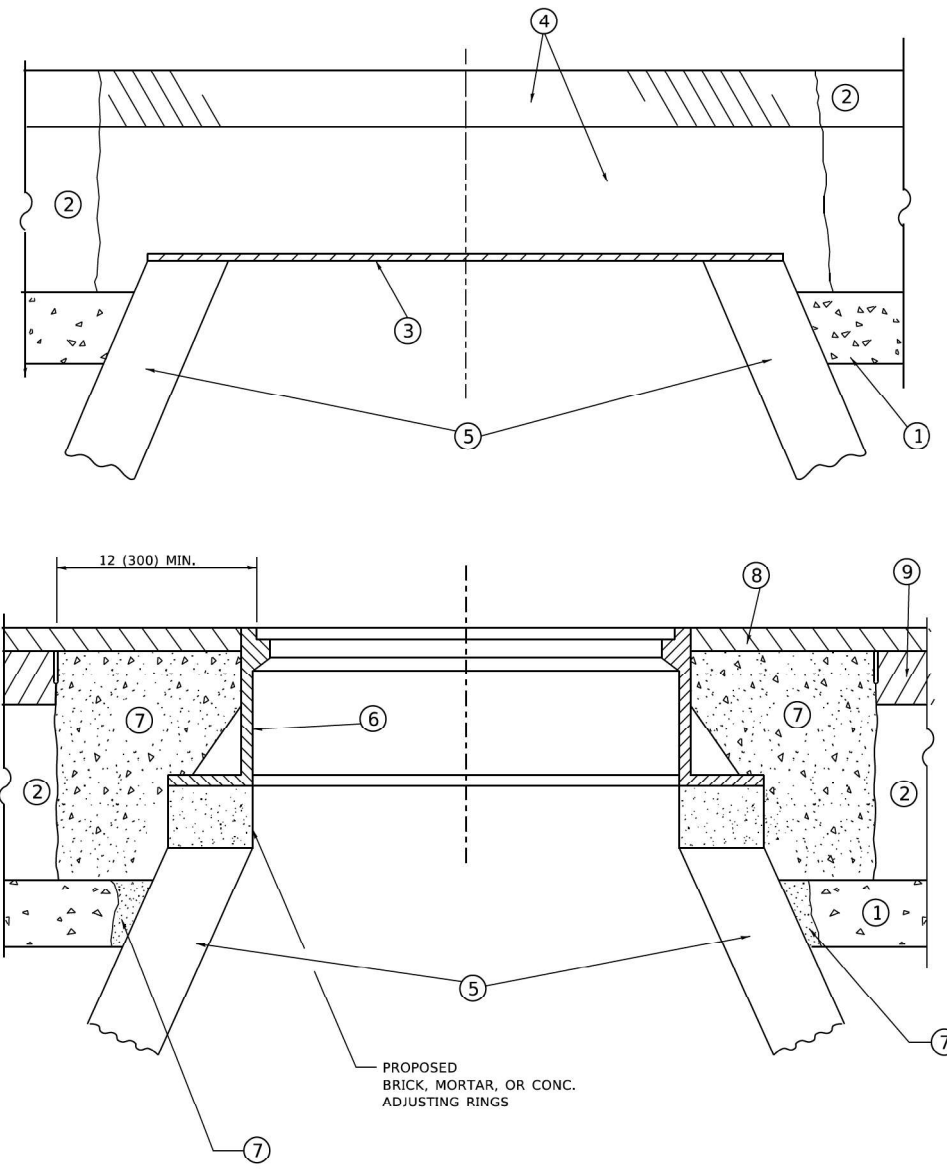
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
US ROUTE 12 AT FOX LAKE RD.**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	25

CONTRACT NO. 62T60
ILLINOIS FED. AID PROJECT Y13J1761



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

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 HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 1 1/2 (40) HMA TO REMAIN AFTER MILLING).

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 | ⑥ FRAME AND LID (SEE NOTES) |
| ② EXISTING PAVEMENT | ⑦ CLASS*PP-1 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

- 1. 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)."
- 2. THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.
- 3. NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.
- 4. 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

NOTES

- 1. 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.
- 2. 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.
- 3. CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.
- 4. THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

MODEL: BD-08
FILE: \\mhp\cadd\enr\proj\62T60\62T60-03\BD-08.dwg
SHEET: 38 OF 38
DATE: 2/2/2022

USER NAME = demanchelt	DESIGNED - R. SHAH	REVISED - R. BORO 01-01-07
	DRAWN -	REVISED - R. BORO 03-09-11
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - R. BORO 12-06-11
PLOT DATE = 2/2/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

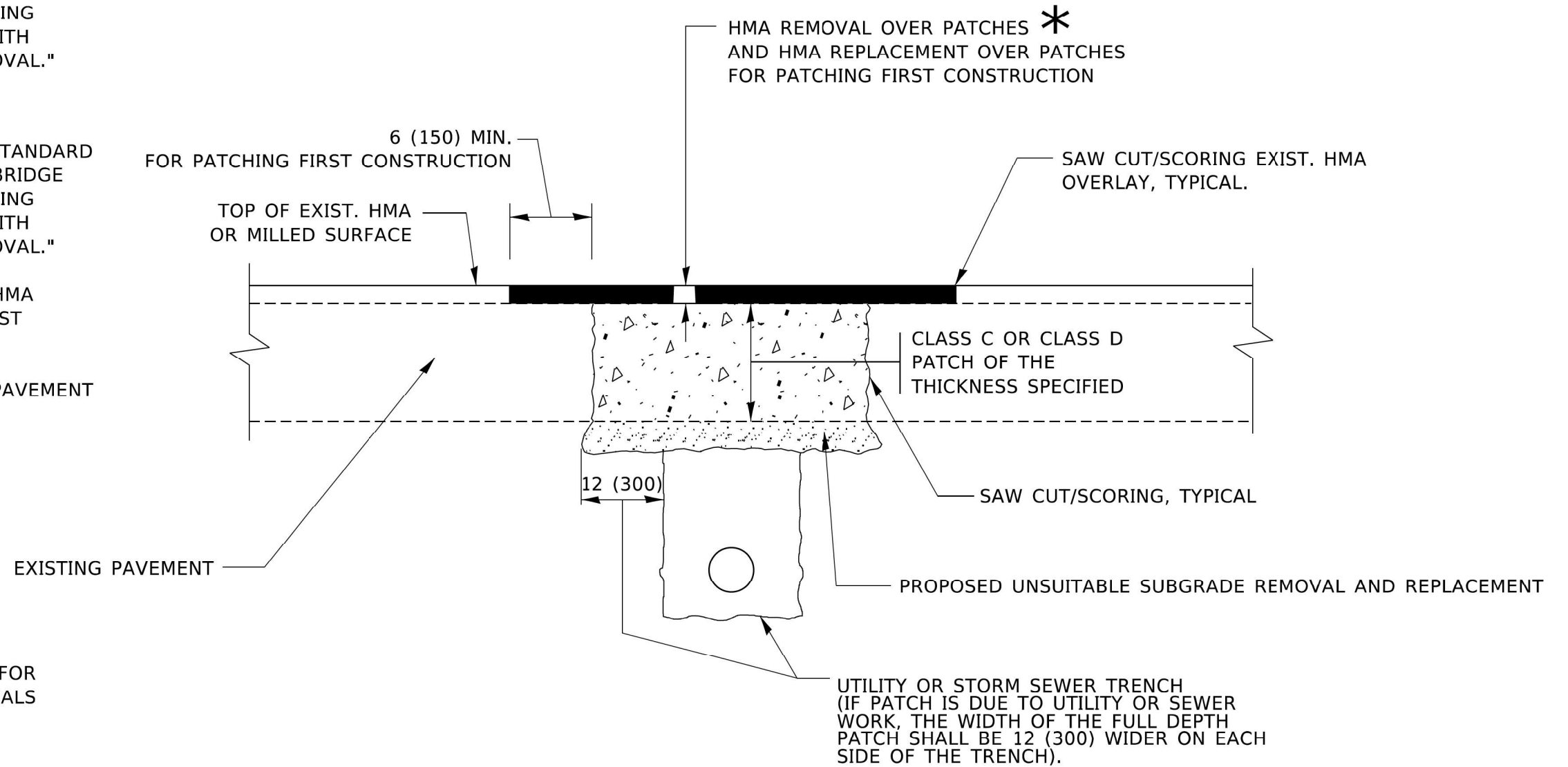
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 RS2	MCHENRY	38	26
BD600-03 (BD-08)			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT				

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 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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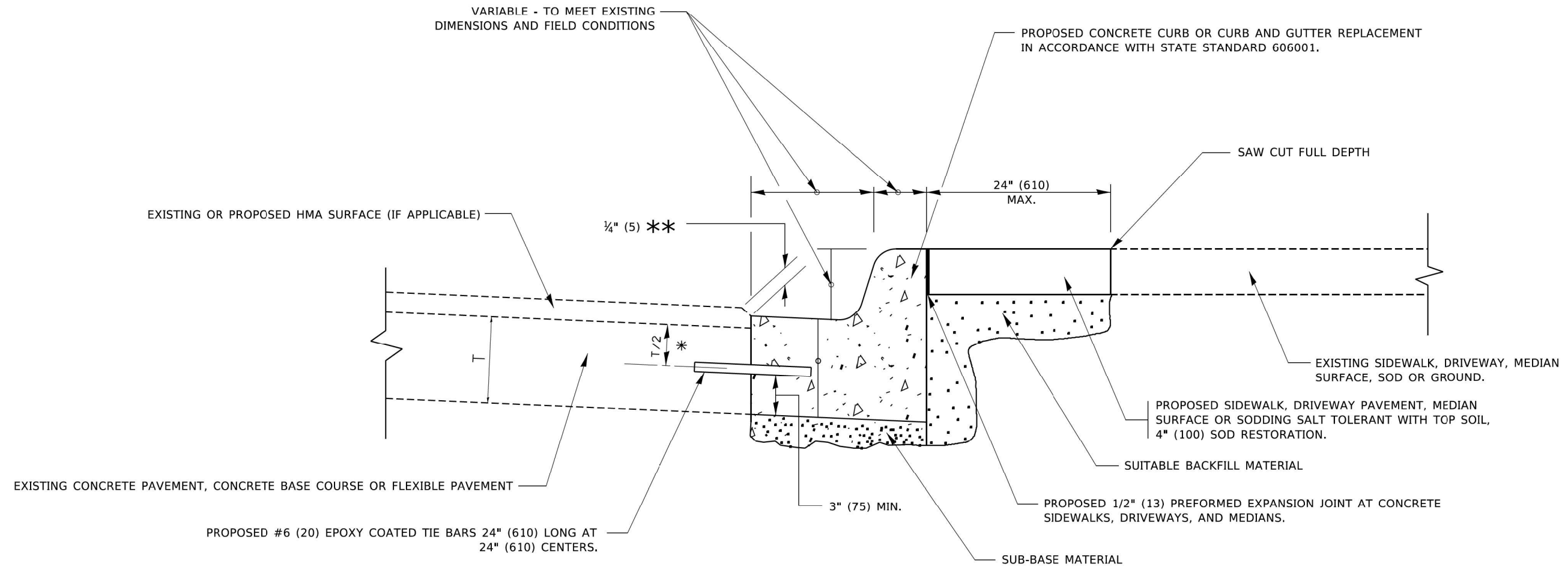
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PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - K. ENG 10-27-08
PLOT DATE = 2/2/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 RS2	MCHENRY	38	27
BD400-04 (BD-22)			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT				



* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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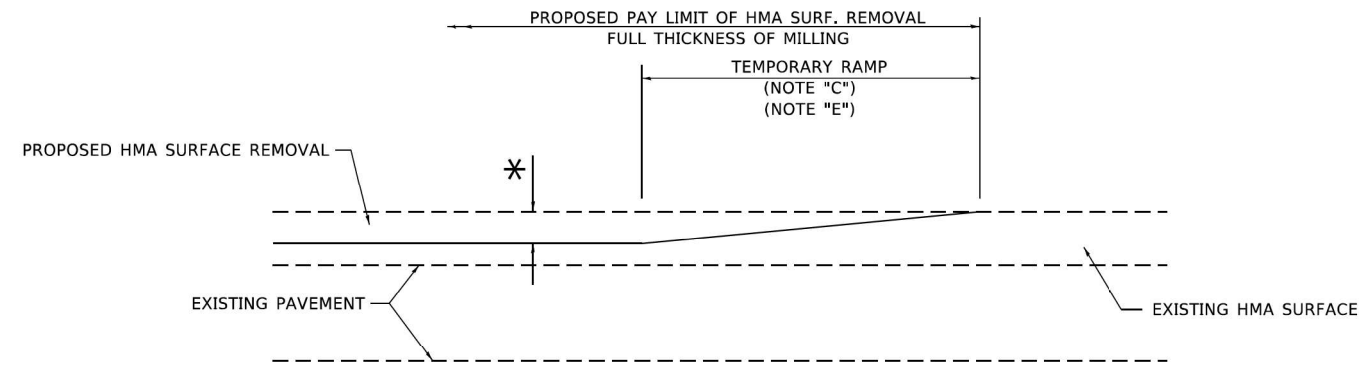
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	DRAWN -	REVISED - M. GOMEZ 01-22-01
PLOT SCALE = 50,0000 ' / ft.	CHECKED -	REVISED - R. BORO 12-15-09
PLOT DATE = 7/11/2019	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT

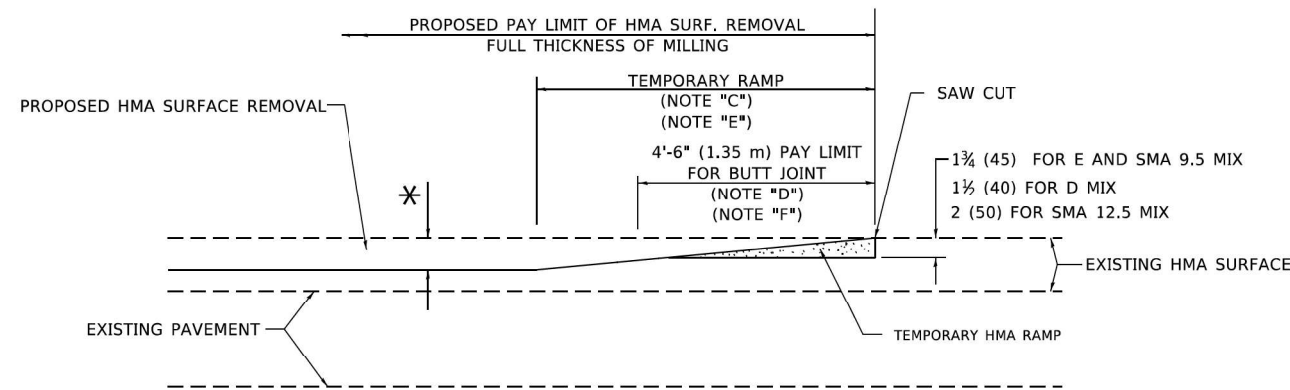
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334	FAP 0334 22 034	MCHENRY	38	28
BD600-06 (BD-24)			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT				



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

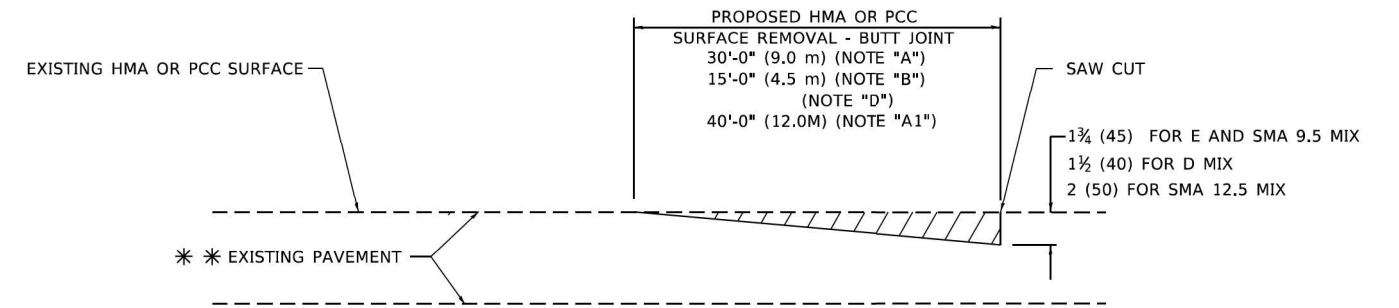
OPTION 1



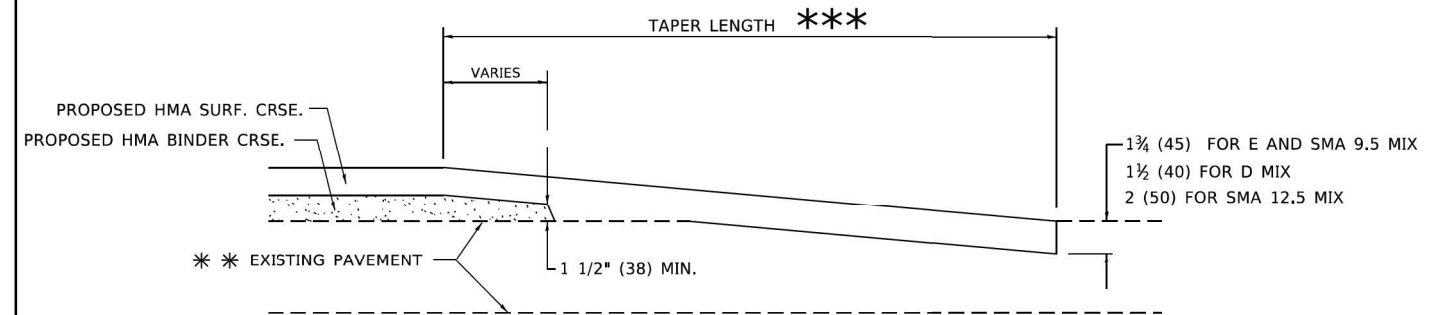
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

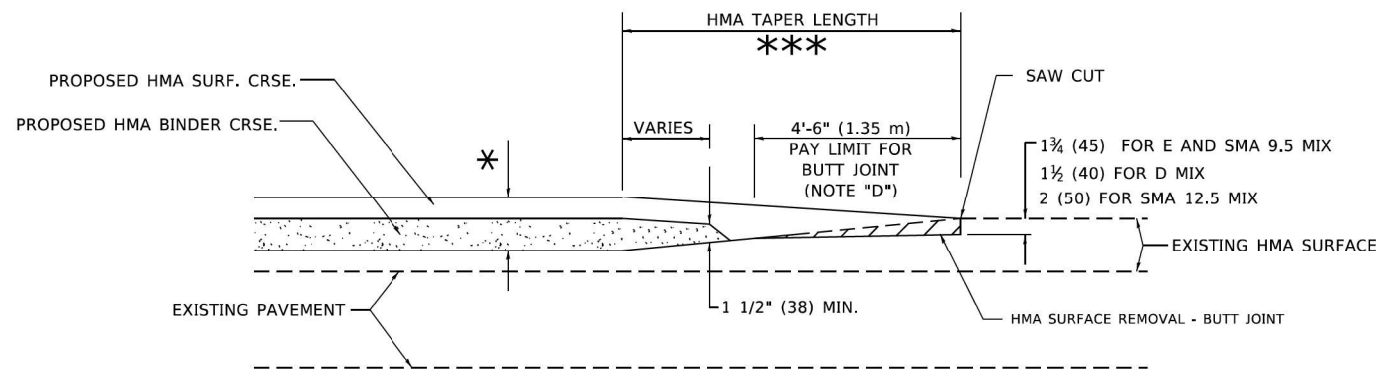
GENERAL NOTES

- 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.



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

MODEL: BD-32
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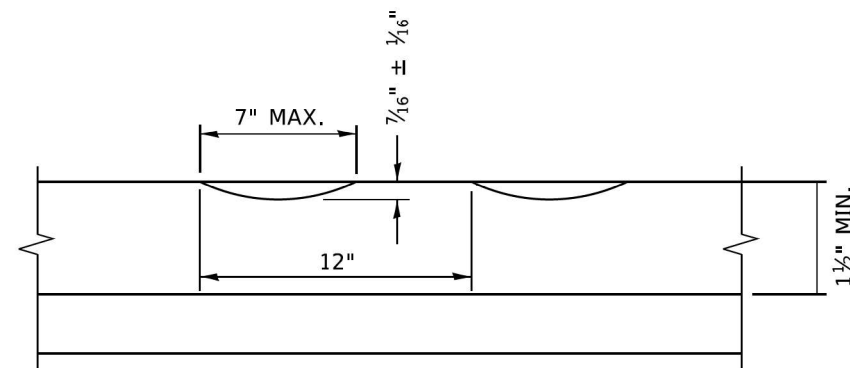
USER NAME = demanchelt	DESIGNED - M. DE YONG	REVISED - A. ABBAS 03-21-97
	DRAWN -	REVISED - M. GOMEZ 04-06-01
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - R. BORO 01-01-07
PLOT DATE = 2/2/2022	DATE - 06-13-90	REVISED - K. SMITH 02-01-22

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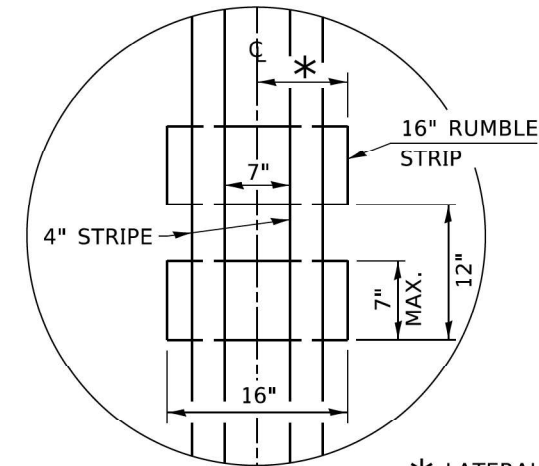
BUTT JOINT AND
HMA TAPER DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 RS2	MCHENRY	38	29
BD400-05 BD-32			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT				



SECTION A-A



* LATERAL DEVIATION SHALL NOT EXCEED ONE INCH IN 100 FEET.

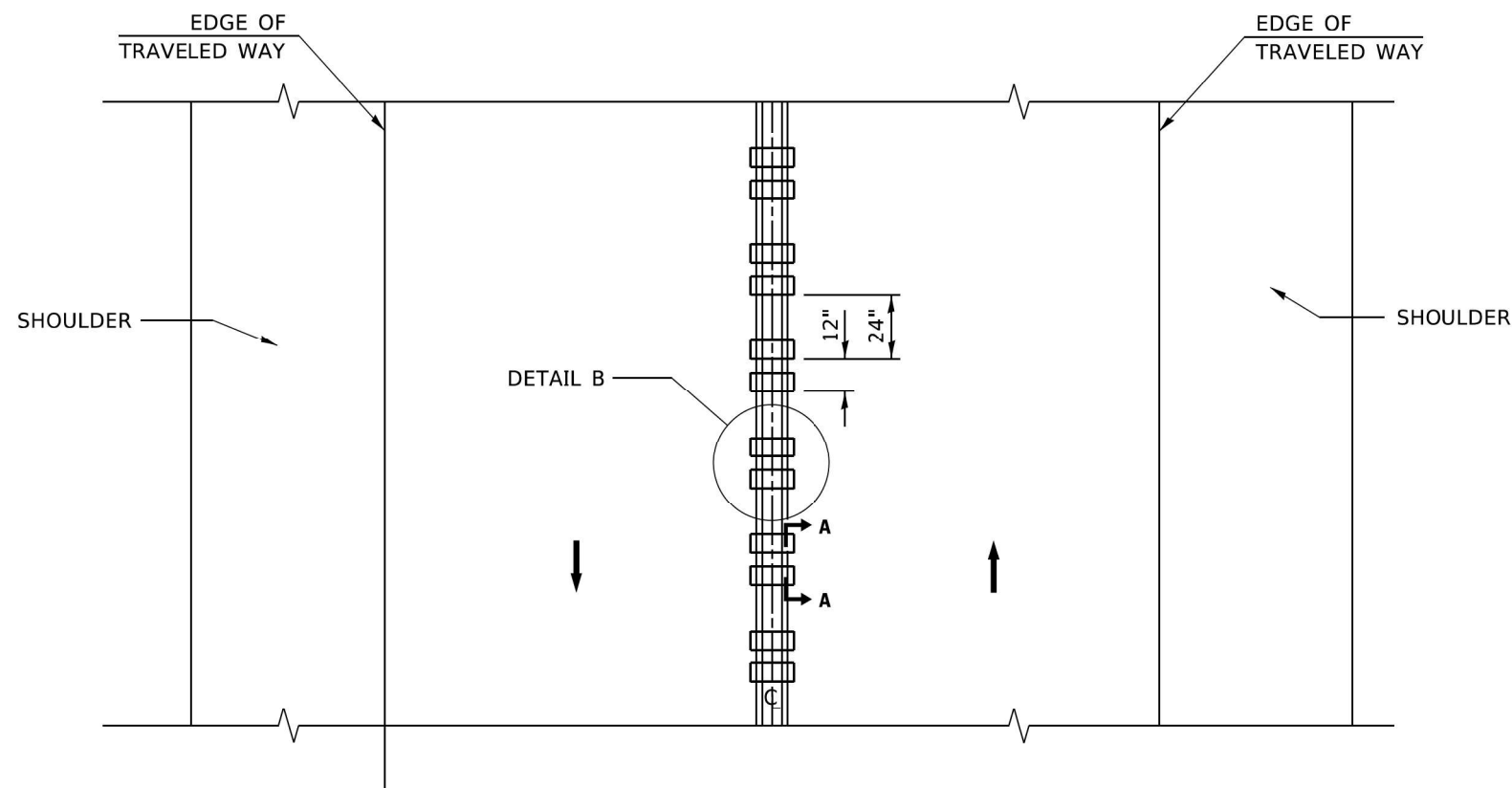
DETAIL B

GENERAL NOTES

1. CENTERLINE RUMBLE STRIPS SHALL BE CONSTRUCTED ACCORDING TO SECTION 642 ALONG THE CENTERLINE OF PAVEMENT.
2. SEE STANDARD 780001 FOR OTHER STRIPING LAYOUTS.
3. RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.
4. ALL RUMBLE STRIPS SHALL BE MILLED.
5. CENTERLINE RUMBLE STRIPS SHALL BE CONTINUOUS THROUGH CONNECTIONS OF SIDEROADS WITH NO LEFT TURN LANES.
6. DISCONTINUE CENTERLINE RUMBLE STRIPS THROUGH THE LIMITS OF ALL LEFT TURN LANES, INCLUDING ANY LANE TAPER SECTIONS.
7. AFTER RUMBLE STRIPS ARE INSTALLED, THE PAVEMENT SURFACE SHALL BE SWEEPED CLEAN PRIOR TO THE PLACEMENT OF THE NEW PAVEMENT MARKINGS.
8. WHERE USED, ADJUST SPACING OF RAISED REFLECTIVE PAVEMENT MARKERS TO FALL IN WIDER GAP BETWEEN RUMBLE STRIPS.

BASIS OF PAYMENT

1. THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR CENTERLINE-RUMBLE STRIP OF THE WIDTH SPECIFIED.
2. HOT-SPRAY THERMOPLASTIC PAVEMENT MARKING WILL BE USED OVER THE RUMBLE STRIPS, AND WILL BE PAID FOR SEPARATELY.



TWO-WAY ROAD

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FILE: M:\MHEP_CAD\Engineering\11\18\2022\62T60\62T60-11\18\2022\62T60-11.dwg

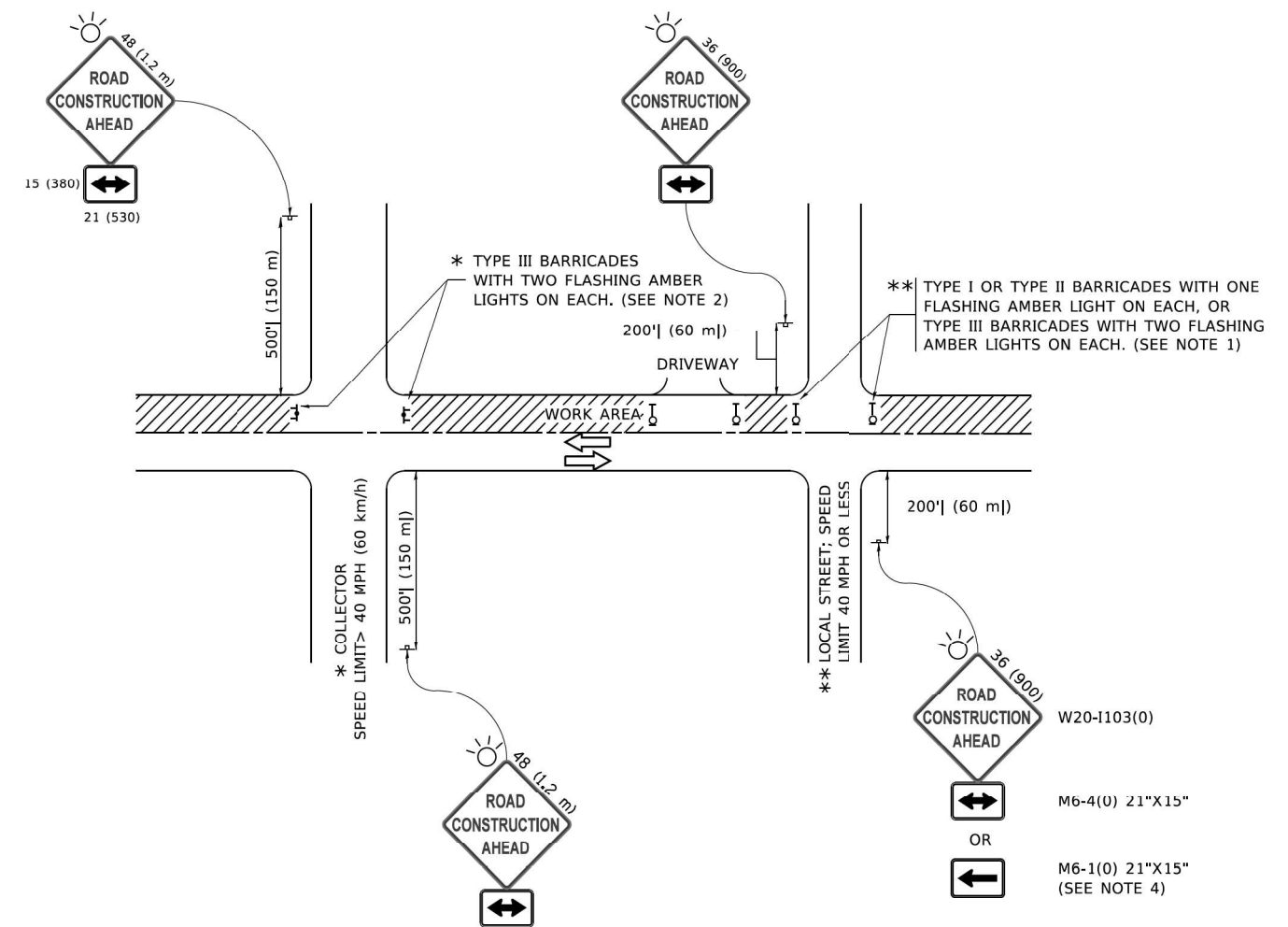
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	DRAWN -	REVISED -
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED -
PLOT DATE = 11/18/2022	DATE - 08-06-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 RS2	MCHENRY	38	30
BD-55			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT				



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.
- 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.

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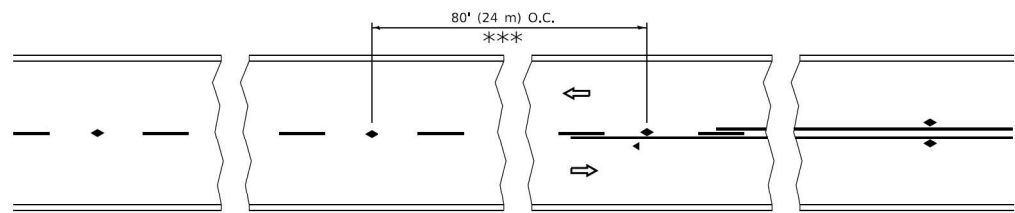
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 50,0000 ' / ft.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
PLOT DATE = 3/4/2019	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

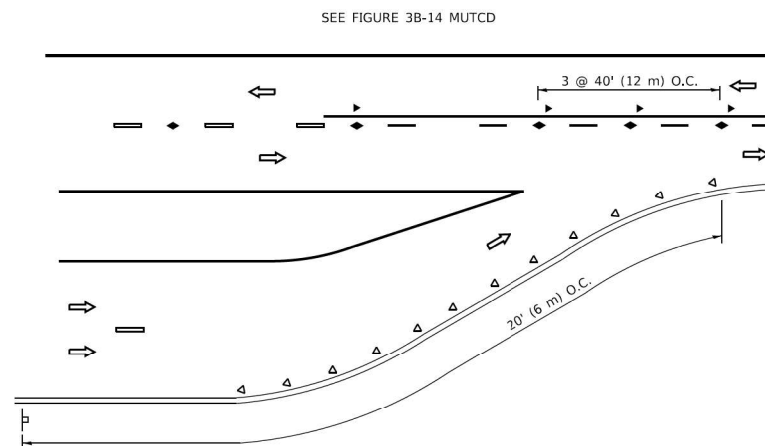
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT				

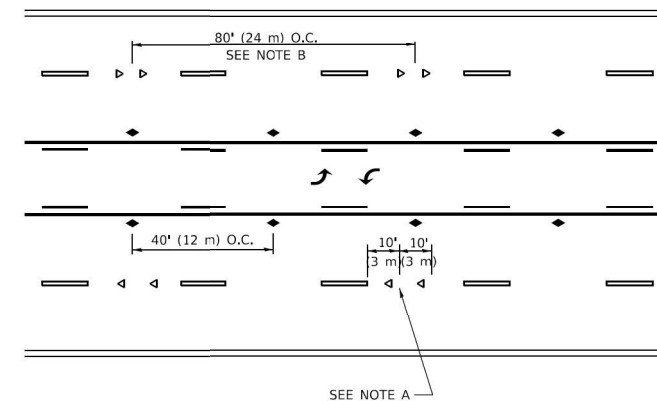


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

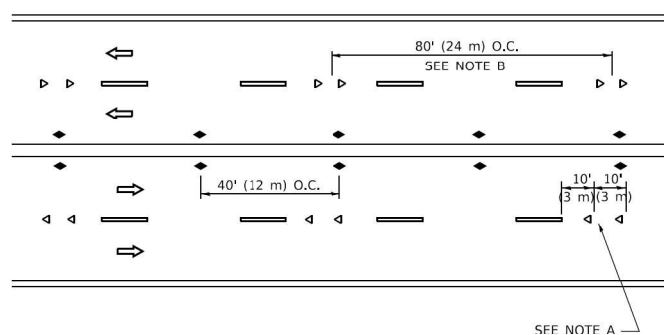
TWO-LANE/TWO-WAY



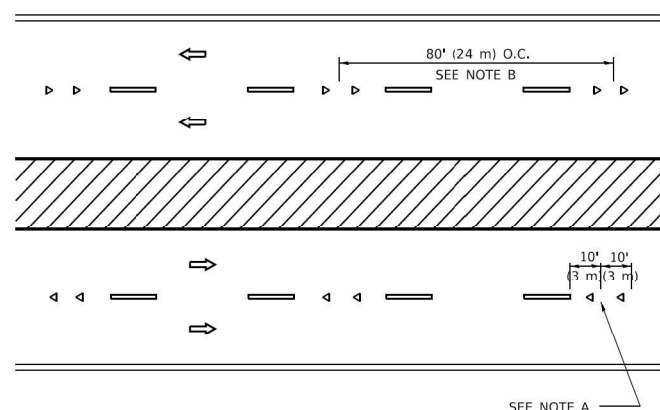
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

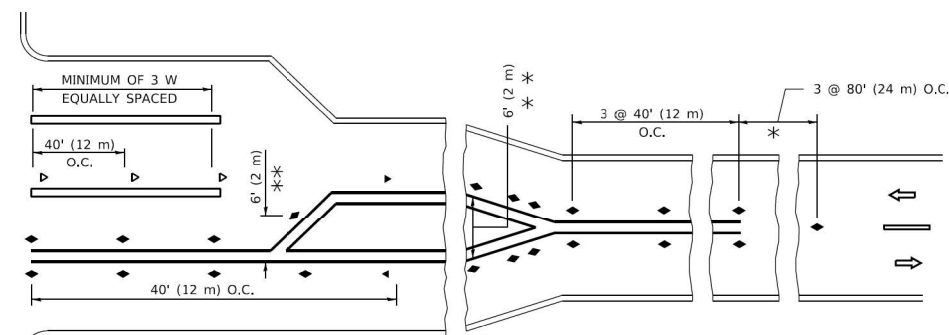
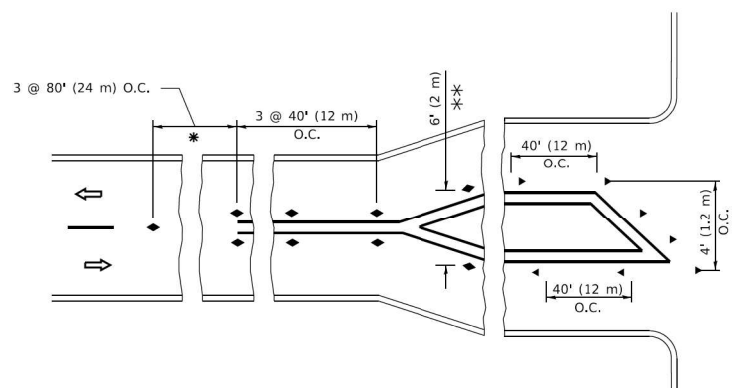
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



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

TURN LANES

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

MODEL: TC-11
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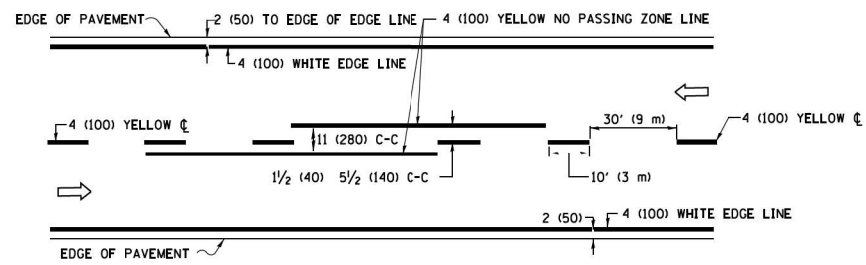
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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 07-01-13

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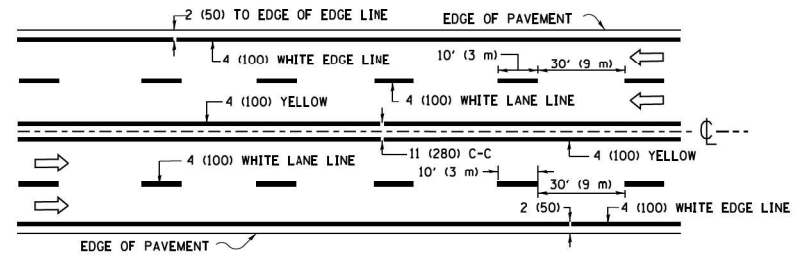
TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

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

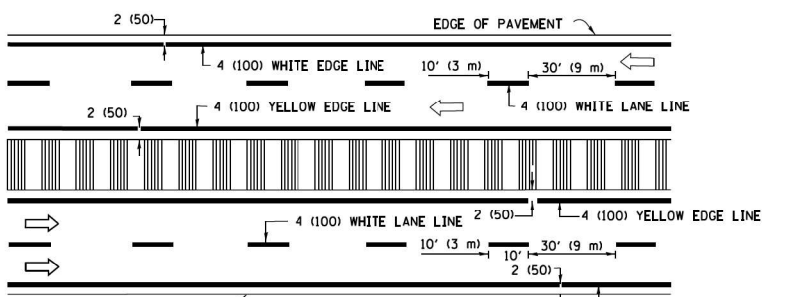
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	32
TC-11			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

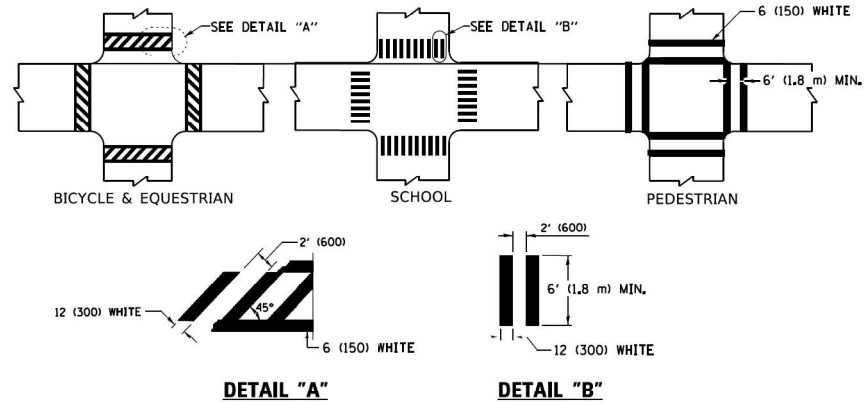


MULTI-LANE UNDIVIDED



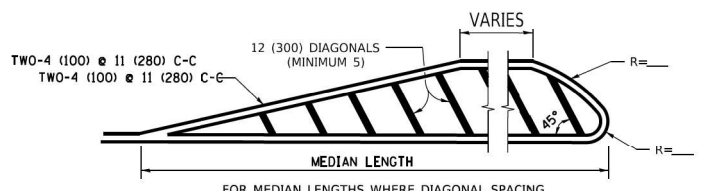
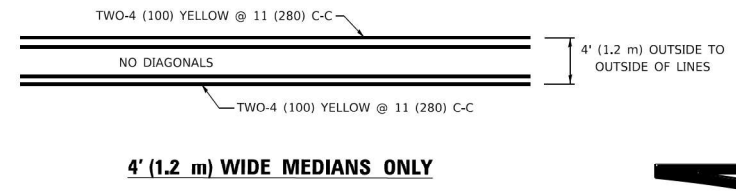
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

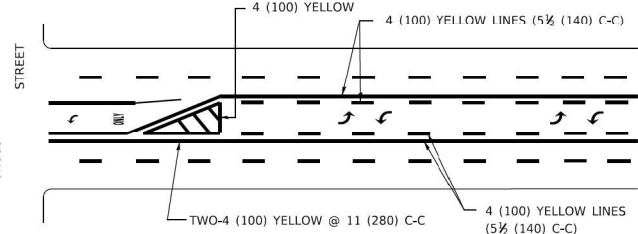


TYPICAL CROSSWALK MARKING

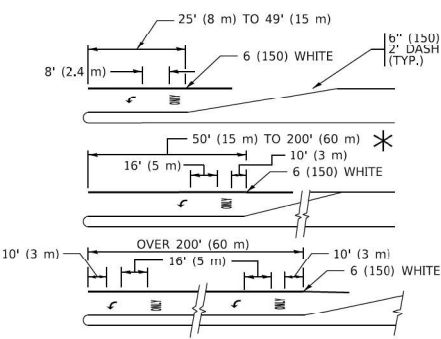
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



MEDIANS OVER 4' (1.2 m) WIDE



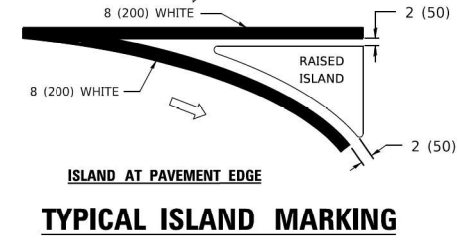
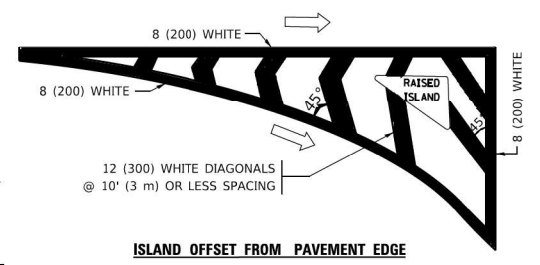
MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING



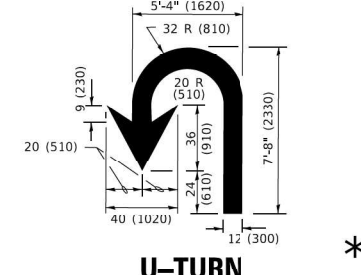
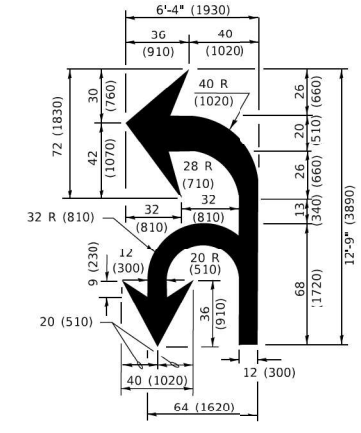
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) AREA = 20.8 SQ. FT. (1.9 m²)

* 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



TYPICAL ISLAND MARKING



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	7 @ 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 (30 MPH (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.

MODEL: TC-19 FILE: M:\METS_CAD\Engineering\162760\62760\162760-TYPICAL PAVED MARKINGS.dwg

USER NAME	DESIGNED	REVISIONS
footemj	EVERS	C. JUCIUS 09-09-09
		REVISOR - C. JUCIUS 07-01-13
		REVISOR - C. JUCIUS 12-21-15
		REVISOR - C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SCALE: NONE		SHEET 1 OF 2 SHEETS		STA. TO STA.	
DISTRICT ONE					
TYPICAL PAVEMENT MARKINGS					

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	33
TC-13				CONTRACT NO. 62T60
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

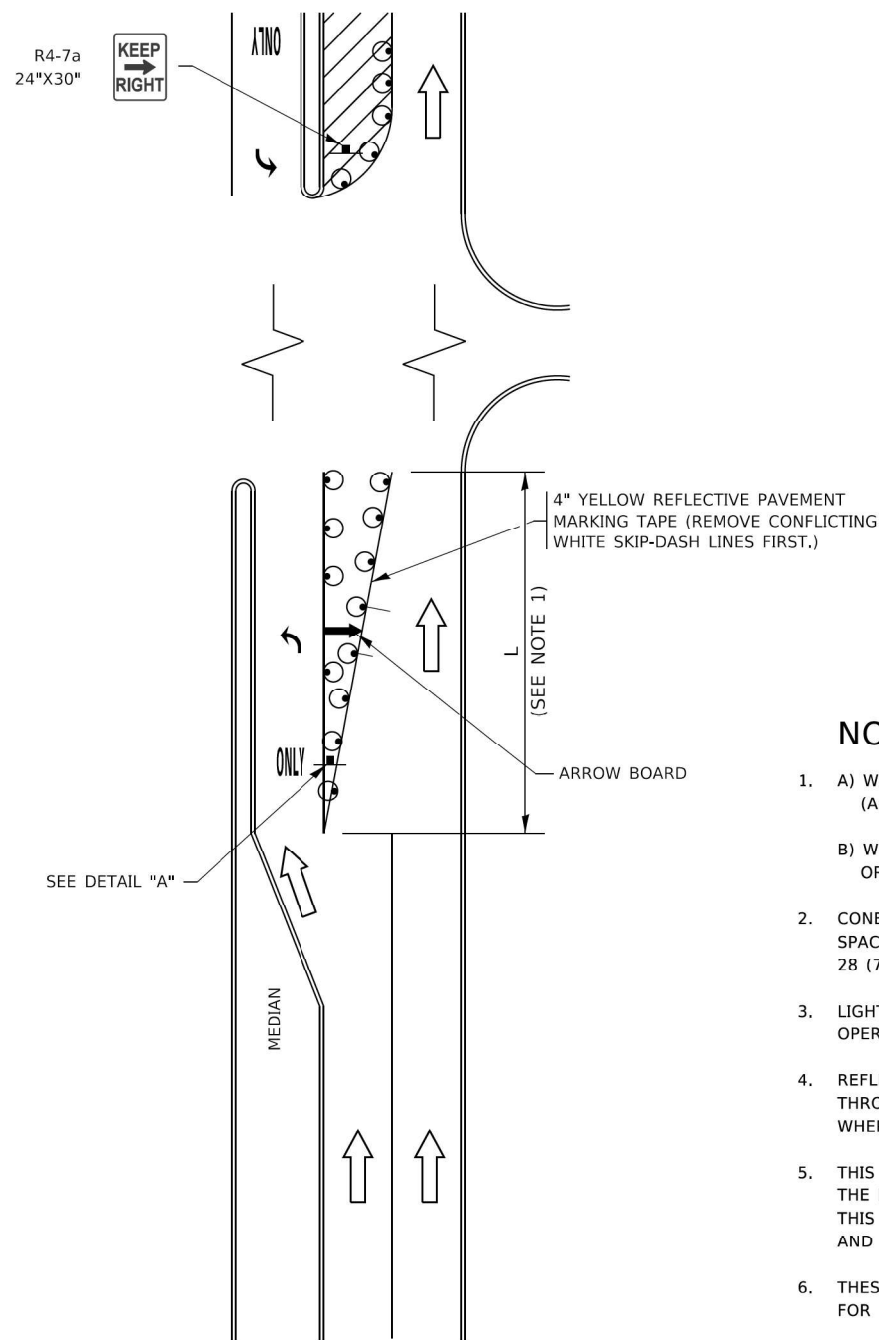


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

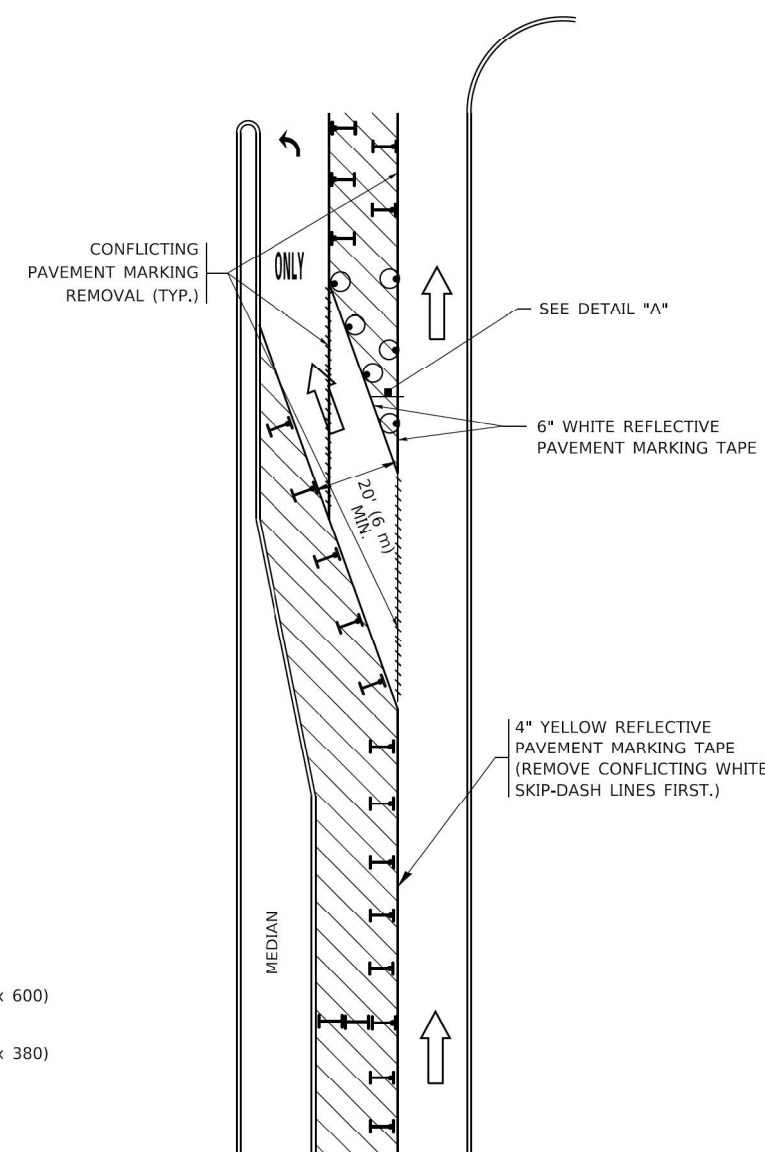
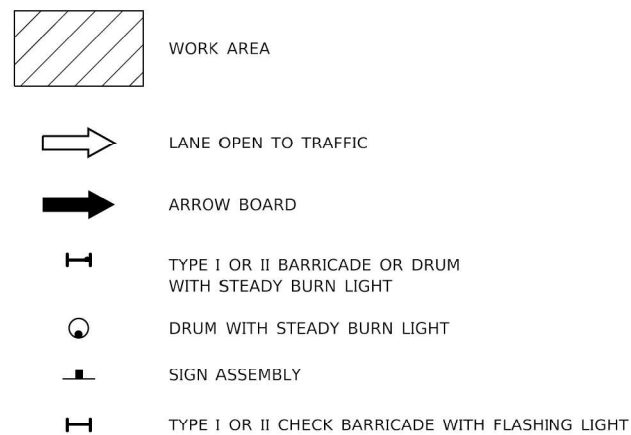


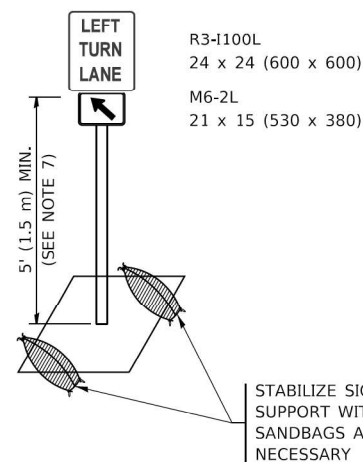
FIGURE 2

LEGEND



NOTES:

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



DETAIL A

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

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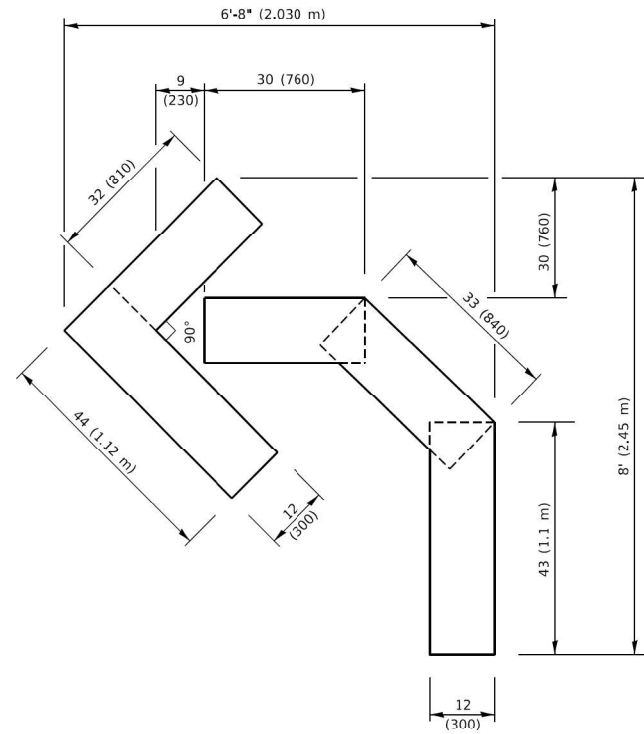
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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 50,0000' / 1"	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 3/4/2019	DATE - T. RAMMACHER 01-06-00	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

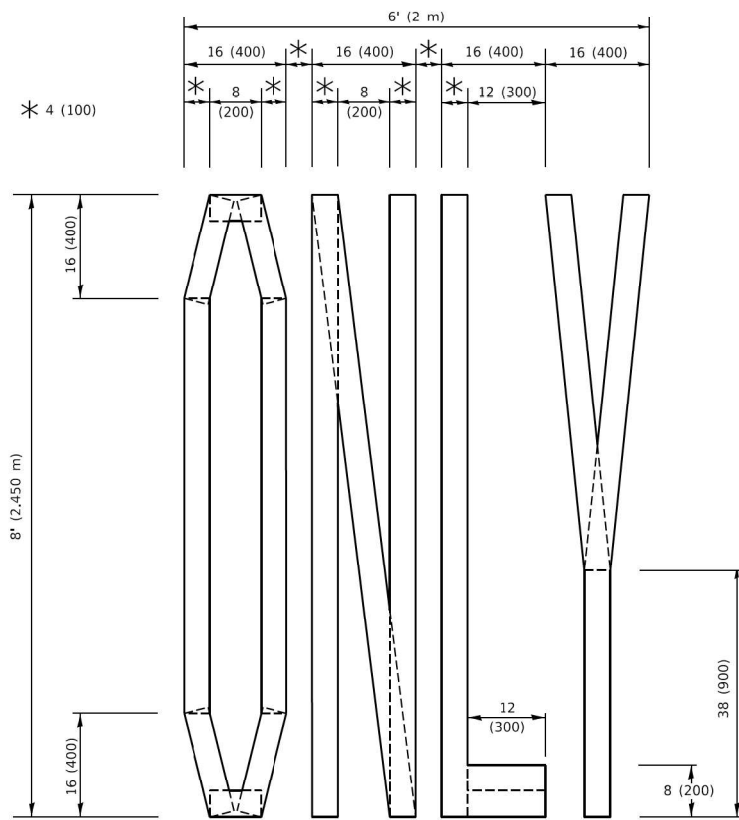
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-14			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT				



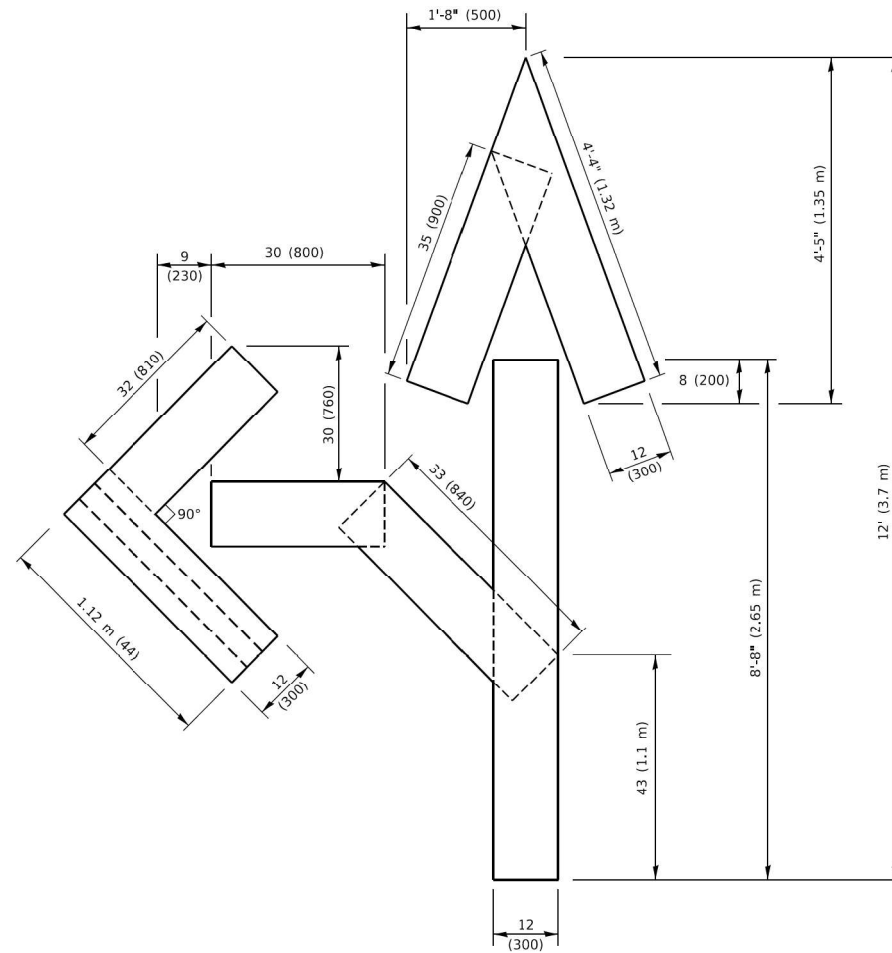
QUANTITY

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)

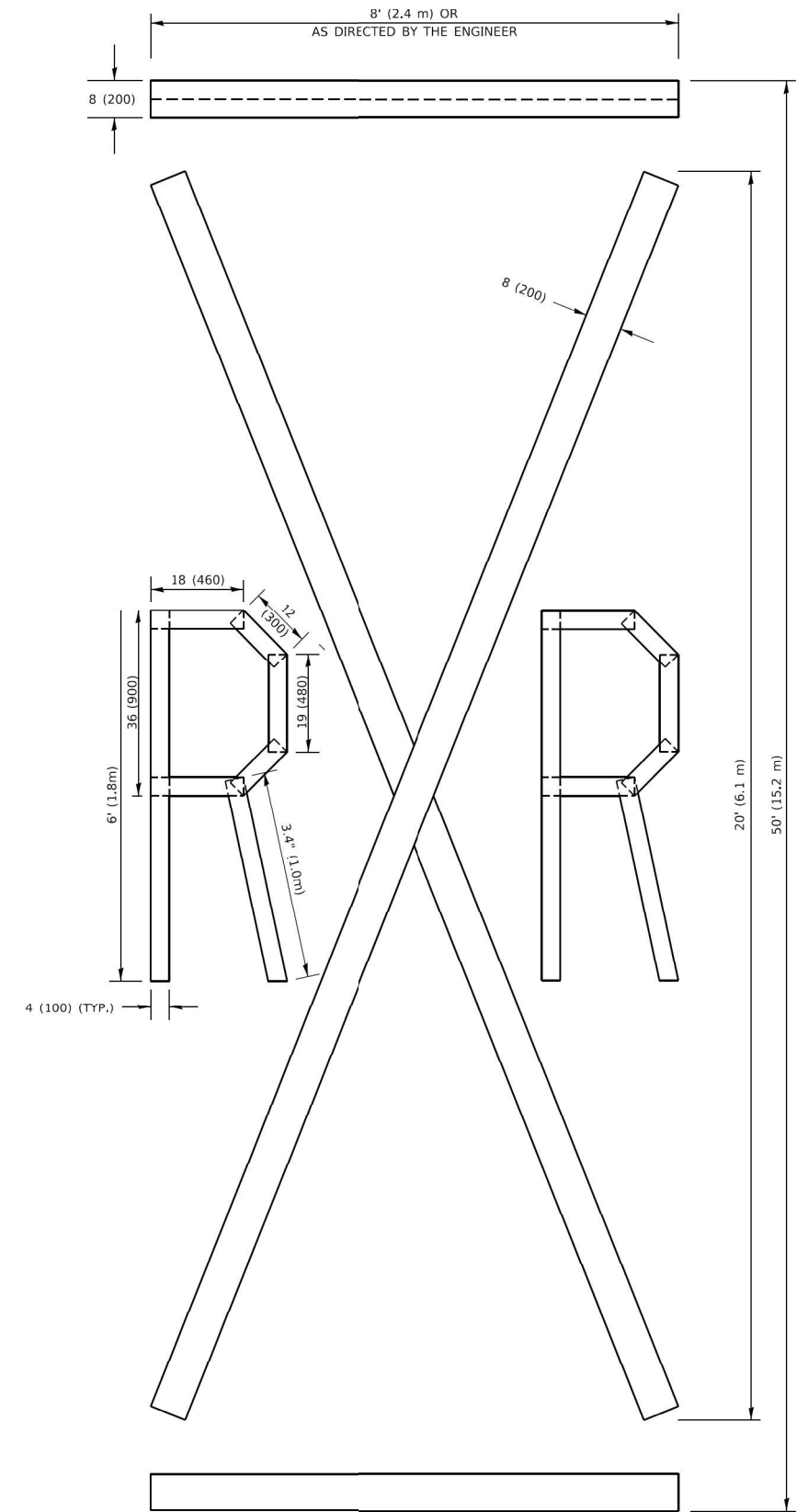


QUANTITY

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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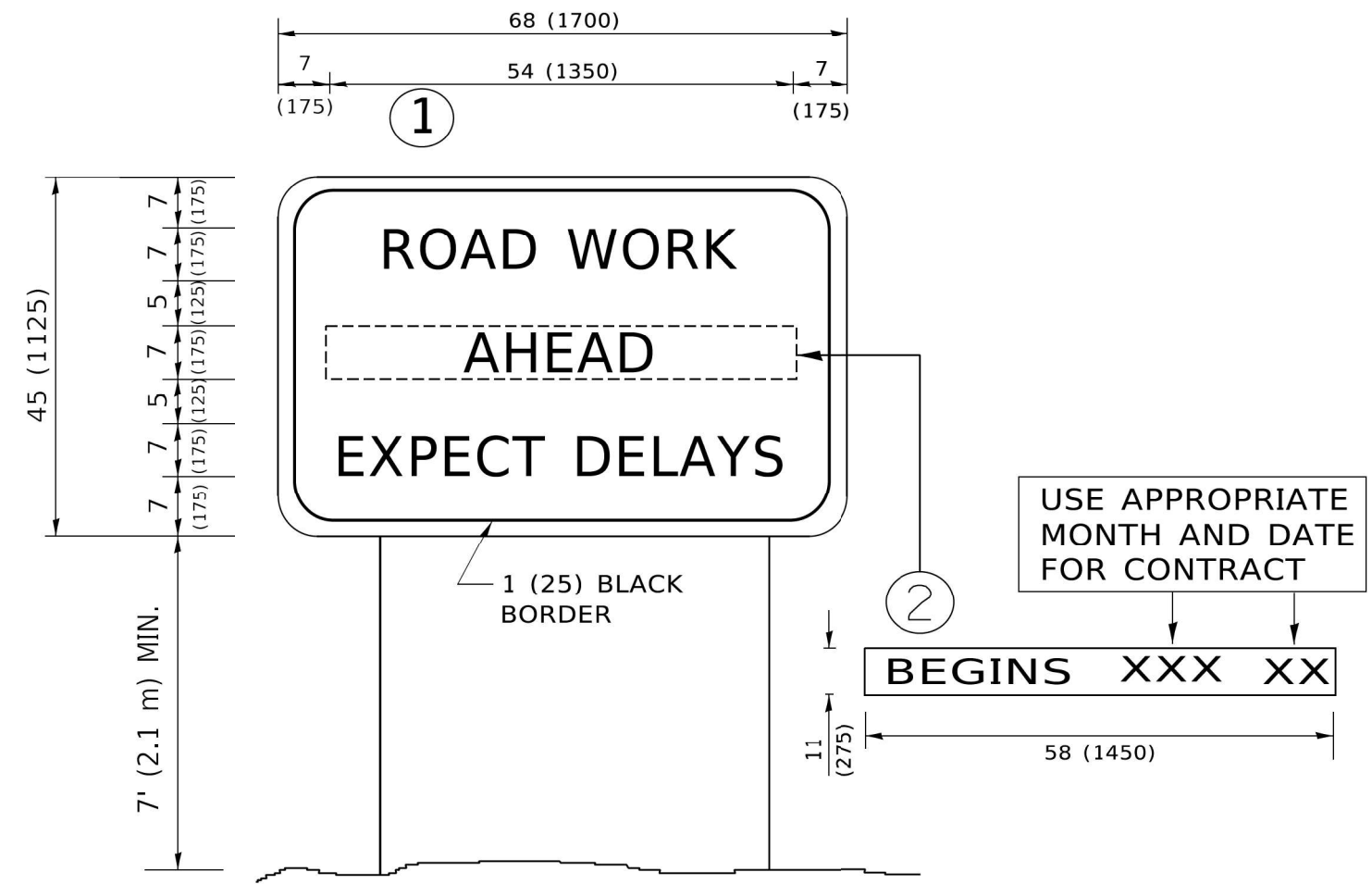
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	DRAWN -	REVISED - E. GOMEZ 08-28-00
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PLOT DATE = 3/4/2019	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**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.
334	FAP 0334 22 RS2	MCHENRY	38	35
TC-16		CONTRACT NO. 62T60		
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.

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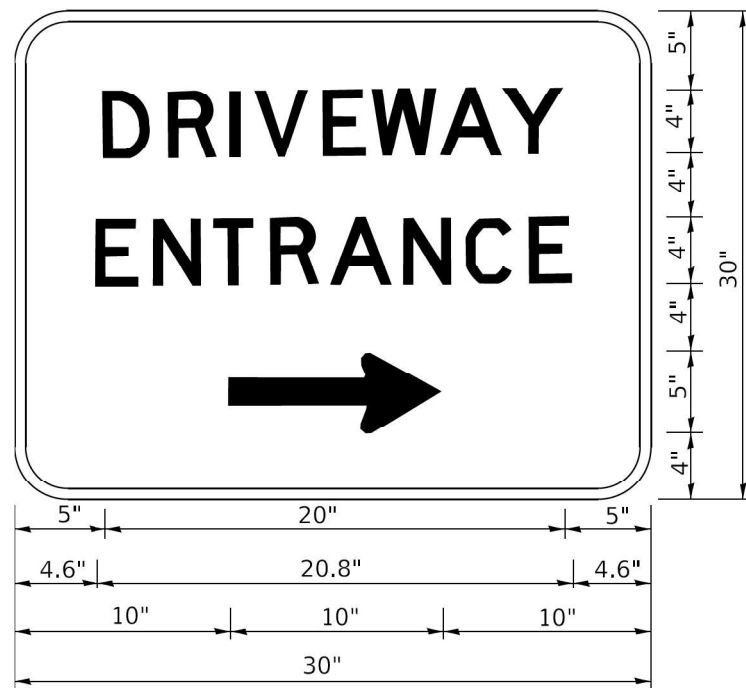
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PLOT DATE = 3/4/2019	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	36
TC-22			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT				



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
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USER NAME = leysa	DESIGNED -	REVISED - C. JUCIUS 02-15-07
	DRAWN -	REVISED -
PLOT SCALE = 50,0000' / 1"	CHECKED -	REVISED -
PLOT DATE = 8/6/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

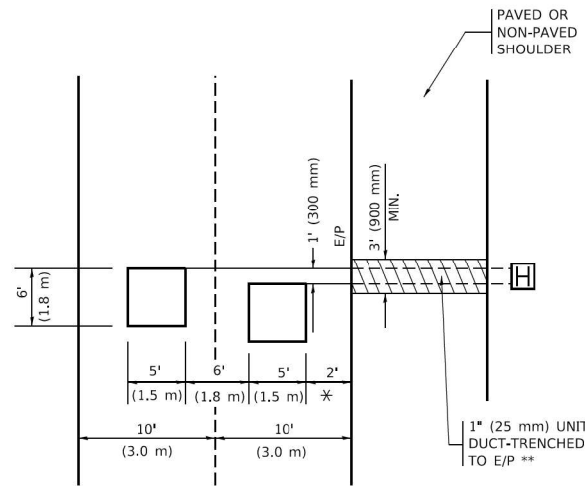
DRIVEWAY ENTRANCE SIGNING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
334	FAP 0334 22 R52	MCHENRY	38	37
TC-26			CONTRACT NO. 62T60	
ILLINOIS FED. AID PROJECT				

LOOPS NEXT TO SHOULDERS

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



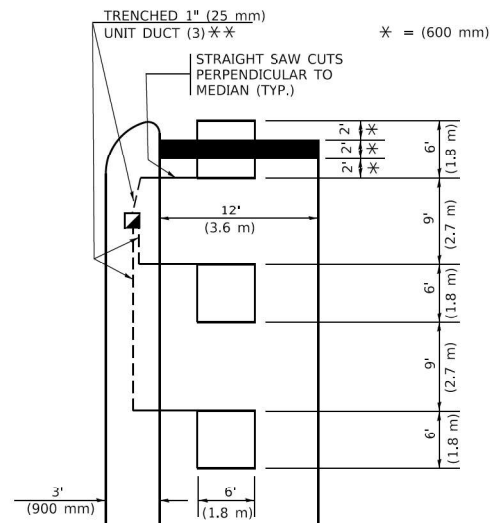
* = (600 mm)

** 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.

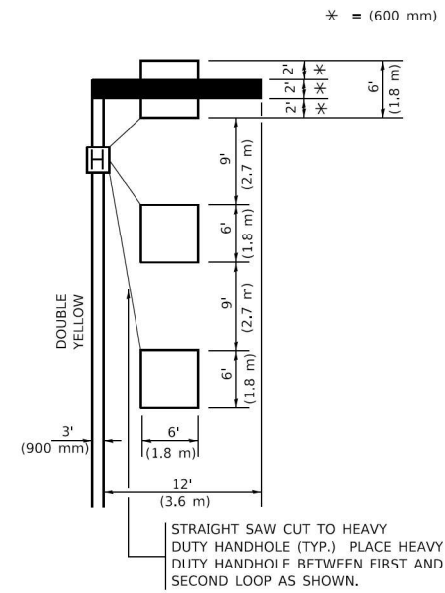


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

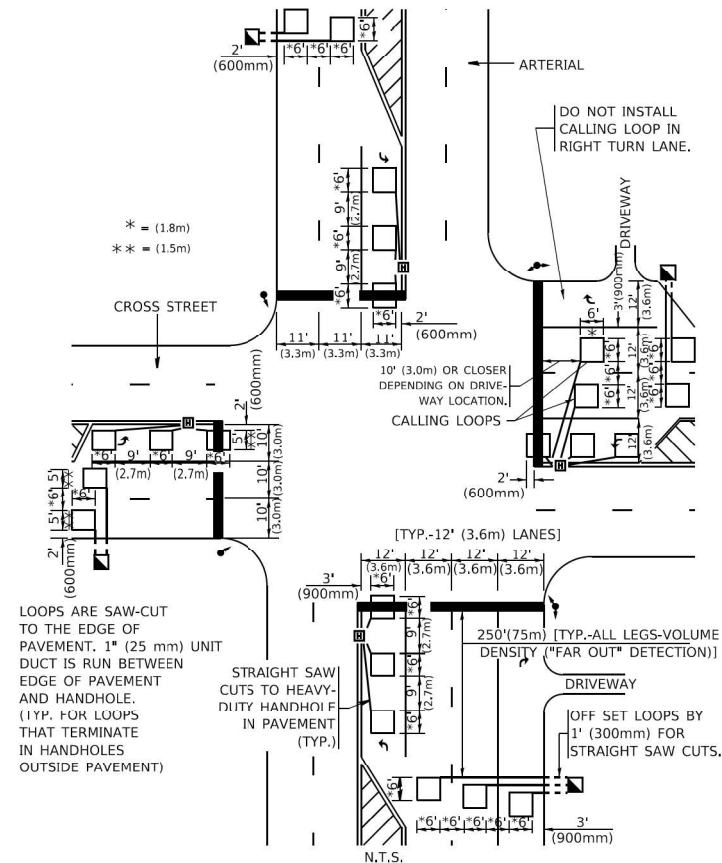
LEFT TURN LANES WITHOUT MEDIANS

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



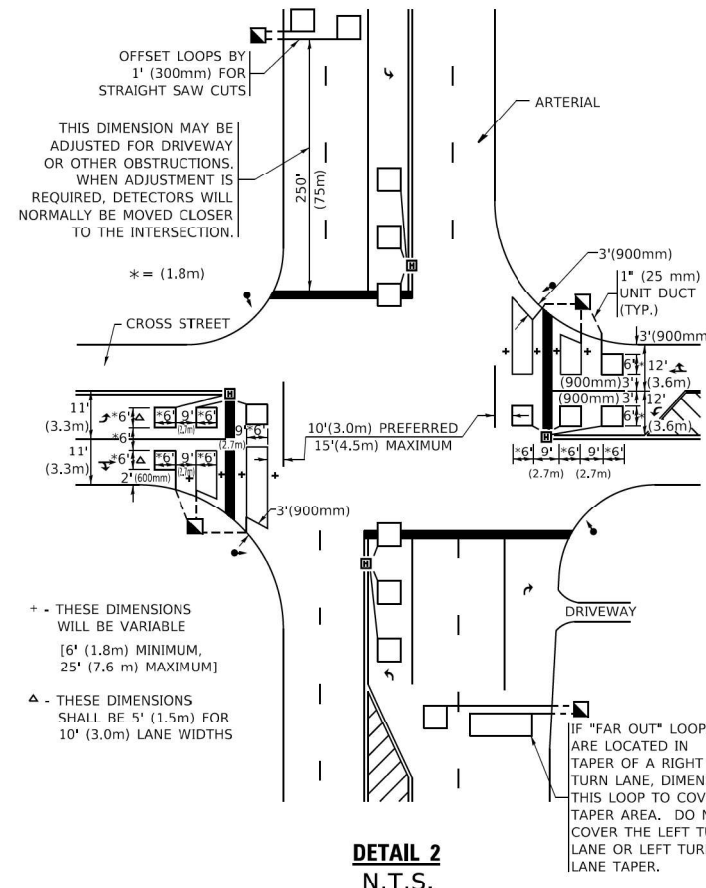
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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.

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.

MODEL: TSC-07
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USER NAME = footemj	DESIGNED -	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 50,0000' / 1.	CHECKED - R.K.F.	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DETAILS FOR ROADWAY RESURFACING		334	FAP 0334 22 R52	MCHENRY	38	38
SCALE: NONE		TS-07		CONTRACT NO. 62T60		
SHEET 1	OF 1 SHEETS	STA.	TO STA.			
ILLINOIS FED. AID PROJECT						