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STATE STANDARDS

STANDARD NO.	DESCRIPTION
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALK
424006-04	DIAGONAL CURB RAMPS FOR SIDEWALK
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALK
424021-05	DEPRESSED CORNER FOR SIDEWALK
442201-03	CLASS C AND D PATCHES
604086-03	FRAME AND GRATE TYPE 23
604091-03	FRAME AND GRATE, TYPE 24
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701101-05	OFF-RD OPERATION, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATION, FOR SPEEDS ≤ 40 MPH
701501-06	URBAN LANE CLOSURE, 22L, 2W, UNDIVIDED
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN
701606-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
780001-05	TYPICAL PAVEMENT MARKINGS
886001-01	DETECTOR LOOP INSTALLATIONS

GENERAL NOTES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS FACILITIES (48 HOURS NOTIFICATION REQUIRED).
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES, VILLAGE OF SCHILLER PARK, MELROSE PARK, STONE PARK, FRANKLIN PARK AND CITY OF NORTHLAKE.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSIONS FROM THE DEPARTMENT.
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- IT IS CONTRACTOR'S RESPONSIBILITY TO PROVIDE A FIELD LABORATORY FOR USE FOR ANY ON SITE TESTING BY THE ENVIRONMENTAL FIRM. NO TESTING OF ANY KIND, CONTAMINATED OR NON-CONTAMINATED FLUID OR SOLID SHALL BE PERMITTED IN THE ENGINEER'S FIELD OFFICE.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING, EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTERS AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- ALL PAVEMENT PATCHING, CURB AND GUTTER REMOVAL AND REPLACEMENT, DRAINAGE ADJUSTMENT LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40 MM) WHERE THE SPEED LIMIT IS 45 MPH (80 KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH (80 KM/H). WITH WRITTEN APPROVAL FROM THE ENGINEER. A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MIN. 1:3 (V:H).
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT), IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- PAVEMENT MARKING TAPE, TYPE III BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE, TYPE III SHALL BE INCLUDED IN THE COST OF SHORT TERM PAVEMENT MARKING.
- DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
- ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
- THE RESIDENT ENGINEER SHALL CONTACT MR. EMAD ALHUSSEINI, AREA TRAFFIC FIELD ENGINEER, VIA EMAIL AT EMAD.ALHUSSEINI@ILLINOIS.GOV A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKING.
- PROPOSED SIDEWALK RAMPS SHALL CONFORM TO CURRENT ADA REQUIREMENTS AND APPLICABLE STATE HIGHWAY STANDARDS OR AS DETERMINED BY THE ENGINEER.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

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USER NAME = shiraniib	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DRAWN -	REVISIED -	330					2019-104-R5&SW	COOK	40	2	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -		US 12 (MANNHEIM RD.) (IL RTE. 19 (IRVING PARK RD.) TO N/OF US 20)			CONTRACT NO. 62J82				
PLOT DATE = 1/30/2020	DATE -	REVISED -		SCALE: NONE	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005	100% STATE 0005				
20200100	EARTH EXCAVATION	CU YD	56	56					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	700	700					
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	5	5					
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	5	5					
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	5	5					
25200110	SODDING, SALT TOLERANT	SO YD	700	700					
25200200	SUPPLEMENTAL WATERING	UNIT	2	2					
35501316	HOT-MIX ASPHALT BASE COURSE, 8"	SO YD	410	410					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	80511	80511					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	269	269					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	1065	1065					
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	840	840					
40604060	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N50	TON	46	46					

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005	100% STATE 0005				
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	17540	17540					
42001300	PROTECTIVE COAT	SO YD	500	500					
42300400	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 8 INCH	SO YD	120	120					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	6400	6400					
42400800	DETECTABLE WARNINGS	SO FT	300	300					
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SO YD	178912	178912					
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	530	530					
44000600	SIDEWALK REMOVAL	SO FT	6000	6000					
44002210	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 2 1/2"	SO YD	6000	6000					
44003100	MEDIAN REMOVAL	SO FT	320	320					
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	3138	3138					
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	1700	1700					
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	1100	1100					* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUMMARY OF QUANTITIES
US 12 (MANNHEIM RD.) (IL RTE 19 TO NOF US 20)

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	3
CONTRACT NO. 62J82				
SCALE:		SHEET OF SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE						SUMMARY OF QUANTITIES			URBAN TOTAL QUANTITIES	CONSTRUCTION TYPE CODE								
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005	100% STATE 0005							CODE NO		ITEM	UNIT	80% FED 20% STATE 0005	100% STATE 0005					
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	14	14							70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1							
60255500	MANHOLES TO BE ADJUSTED	EACH	15	15							70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1							
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	14	14							70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1							
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	18	18							70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1							
60404940	FRAMES AND GRATES, TYPE 23	EACH	16	16							70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1							
60404950	FRAMES AND GRATES, TYPE 24	EACH	26	26							70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1							
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	150	150							70200100	NIGHTTIME WORK ZONE LIGHTING	L SUM	1	1							
60623800	CONCRETE BARRIER MEDIAN	SO FT	320	320							70300100	SHORT TERM PAVEMENT MARKING	FOOT	14280	14280							
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	56	56							70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	2400	2400							
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4							70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	2940	2940							
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1							70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	78525	78525							
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1							70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	11215	11215							
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	10	10																		
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	18	18																		
67100100	MOBILIZATION	L SUM	1	1																		* SPECIALTY ITEM

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SUMMARY OF QUANTITIES
 US 12 (MANNHEIM RD.) (IL RTE 19 TO NOF US 20)**

F.A.P RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	4
CONTRACT NO. 62J82				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.
				ILLINOIS FED. AID PROJECT

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005	100% STATE 0005				
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	820	820					
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	3200	3200					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	1160	1160					
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	2940	2940					
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	78525	78525					
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	11215	11215					
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	820	820					
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	3200	3200					
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	1160	1160					
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	2550	2550					
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	2541	2541					
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	5852	5852					

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT		80% FED 20% STATE 0005	100% STATE 0005				
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1					
X0327611	REMOVE AND REINSTALL BRICK PAVER	SO FT	1200	1200					
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	1080		1080				
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	205	205					
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	52800	52800					
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	3100	3100					
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	310		310				
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4					
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	105000	105000					
Ø Z0076600	TRAINEES	HOOR	500	500					
Ø Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOOR	500	500					

REV. - MS

Ø 0042
* SPECIALTY ITEM

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES			
US 12 (MANNHEIM RD.) (IL RTE 19 TO NOF US 20)			
SCALE:	SHEET	OF	SHEETS
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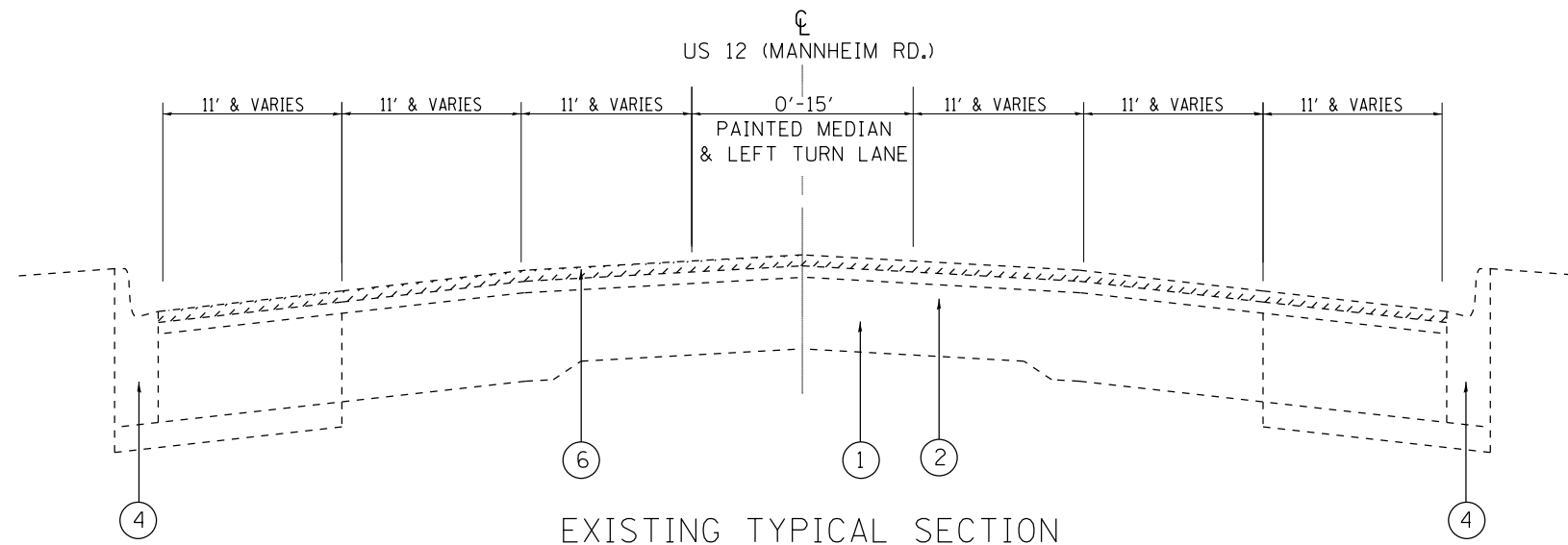
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	5
CONTRACT NO. 62J82				
ILLINOIS FED. AID PROJECT				

LEGEND

- ① EXISTING P.C.C. PAVEMENT, 10"±
- ② EXISTING HOT-MIX ASPHALT SURFACE, 2 1/2"±
- ③ EXISTING HMA SURFACE OVERLAY AFTER MILLING, 3/4"±
- ④ EXISTING COMB. CONCRETE CURB AND GUTTER
- ⑤ EXISTING CONCRETE MEDIAN
- ⑥ PROPOSED HMA SURFACE REMOVAL, 1 3/4"
- ⑦ PROPOSED POLY. HMA SURFACE COURSE, SMA, MIX "F", 9.5, N80, 1 3/4"

OMISSIONS

STA. 50+29 TO STA. 51+92
 STA. 167+09 TO STA. 187+20

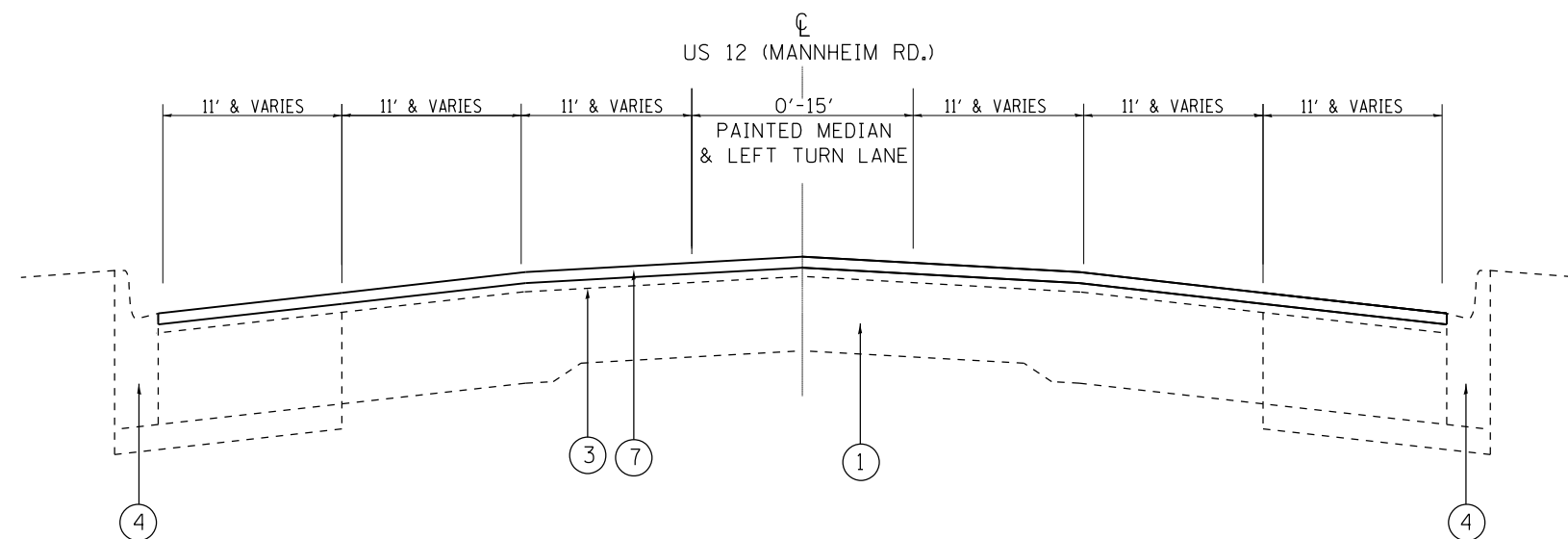


EXISTING TYPICAL SECTION

STA. 20+70 TO STA. 34+02	STA. 105+82 TO STA. 130+45
STA. 38+05 TO STA. 44+26	STA. 141+43 TO STA. 155+09
STA. 49+06 TO STA. 50+29	STA. 158+10 TO STA. 167+09
STA. 51+92 TO STA. 56+57	STA. 193+00 TO STA. 207+17
STA. 58+07 TO STA. 75+50	STA. 208+62 TO STA. 218+90
STA. 79+49 TO STA. 101+79	STA. 220+20 TO STA. 224+84

NOTES:

FOR THE EXISTING HMA SURFACE, THE CONTRACTOR SHALL DO PAVEMENT PATCHING FIRST, THEN MILLING THE ROADWAY PER BD-22 DETAIL.



PROPOSED TYPICAL SECTION

STA. 20+70 TO STA. 34+02	STA. 105+82 TO STA. 130+45
STA. 38+05 TO STA. 44+26	STA. 141+43 TO STA. 155+09
STA. 49+06 TO STA. 50+29	STA. 158+10 TO STA. 167+09
STA. 51+92 TO STA. 56+57	STA. 193+00 TO STA. 207+17
STA. 58+07 TO STA. 75+50	STA. 208+62 TO STA. 218+90
STA. 79+49 TO STA. 101+79	STA. 220+20 TO STA. 224+84

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE USES	DESIGN AIR Voids @ N _{DES}	QMP
PAVEMENT RESURFACING		
POLY. HMA SURFACE COURSE, SMA, MIX "F", 9.5, N80	3.5% AT 80 GYR.	PPF
PAVEMENT PATCHING		
CLASS D PATCHES, (HMA BINDER IL-19.0 mm)	4% AT 70 GYR.	QC/QA

QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA);
 QUALITY CONTROL FOR PERFORMANCE (QCP)

NOTES:

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURES QUANTITIES IS 112 LBS/SQ YD/IN.
 THE "AC TYPE FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.
 FOR USE OF RECYCLED MATERIALS SEE DISTRICT ONE SPECIAL PROVISIONS.
 QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.
 THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER MILLED SURFACE.

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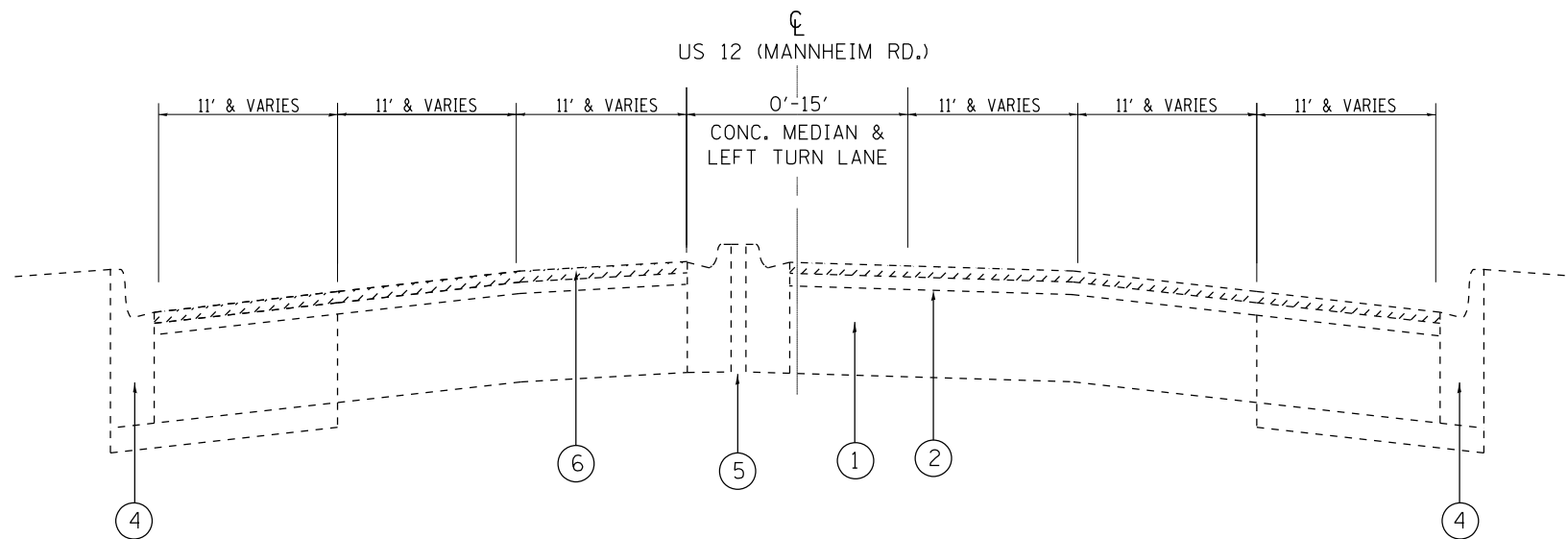
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED TYPICAL SECTIONS
 US 12 (MANNHEIM RD.) (IL 19 (IRVING PARK RD.) TO NOF US 20)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	6
CONTRACT NO. 62J82				
ILLINOIS		FED. AID PROJECT		



EXISTING TYPICAL SECTION

STA. 34+02 TO STA. 38+05	STA. 130+45 TO STA. 141+43
STA. 44+26 TO STA. 46+57	STA. 155+09 TO STA. 158+10
STA. 46+57 TO STA. 49+06	STA. 187+20 TO STA. 193+00
STA. 56+57 TO STA. 58+07	STA. 207+17 TO STA. 208+62
STA. 75+50 TO STA. 79+49	STA. 218+90 TO STA. 220+20
STA. 101+79 TO STA. 105+82	STA. 224+84 TO STA. 232+43

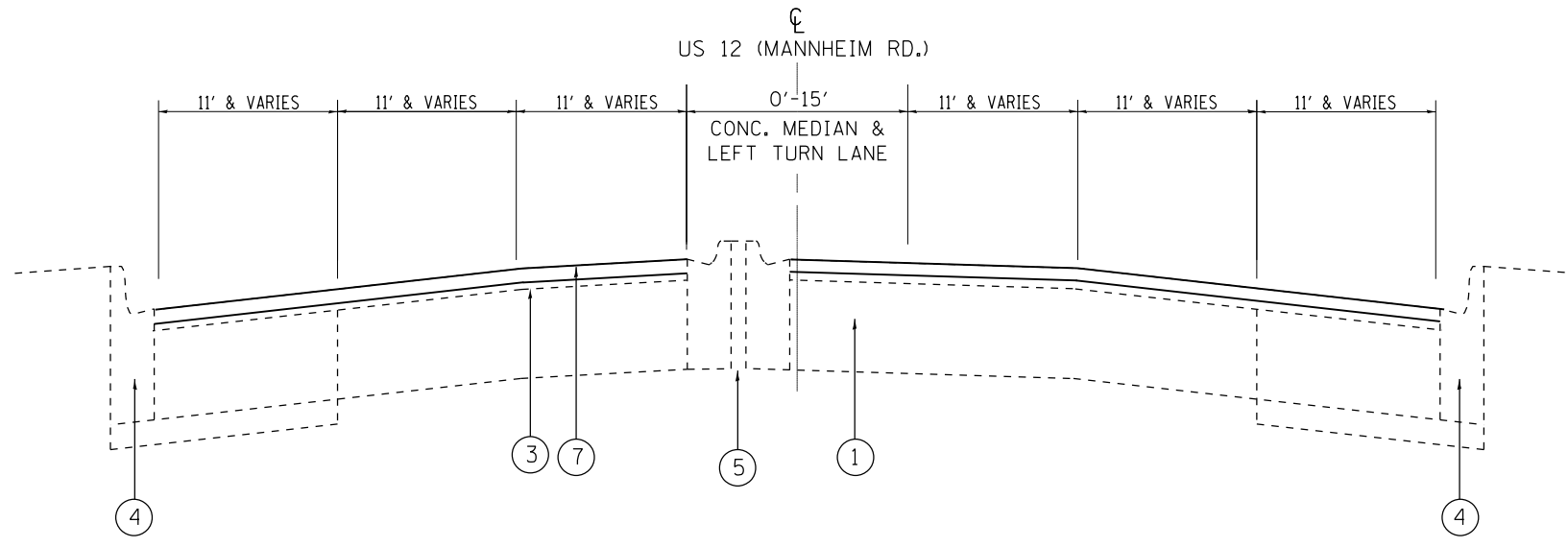
LEGEND

- ① EXISTING P.C.C. PAVEMENT, 10"±
- ② EXISTING HOT-MIX ASPHALT SURFACE, 2 1/2"±
- ③ EXISTING HMA SURFACE OVERLAY AFTER MILLING, 3/4"±
- ④ EXISTING COMB. CONCRETE CURB AND GUTTER
- ⑤ EXISTING CONCRETE MEDIAN
- ⑥ PROPOSED HMA SURFACE REMOVAL, 1 3/4"
- ⑦ PROPOSED POLY. HMA SURFACE COURSE, SMA, MIX "F", 9.5, N80, 1 3/4"

OMISSIONS

STA. 50+29 TO STA. 51+92
 STA. 167+09 TO STA. 187+20

NOTES:
 FOR THE EXISTING HMA SURFACE, THE CONTRACTOR SHALL DO PAVEMENT PATCHING FIRST, THEN MILLING THE ROADWAY PER BD-22 DETAIL.



PROPOSED TYPICAL SECTION

STA. 34+02 TO STA. 38+05	STA. 130+45 TO STA. 141+43
STA. 44+26 TO STA. 46+57	STA. 155+09 TO STA. 158+10
STA. 46+57 TO STA. 49+06	STA. 187+20 TO STA. 193+00
STA. 56+57 TO STA. 58+07	STA. 207+17 TO STA. 208+62
STA. 75+50 TO STA. 79+49	STA. 218+90 TO STA. 220+20
STA. 101+79 TO STA. 105+82	STA. 224+84 TO STA. 232+43

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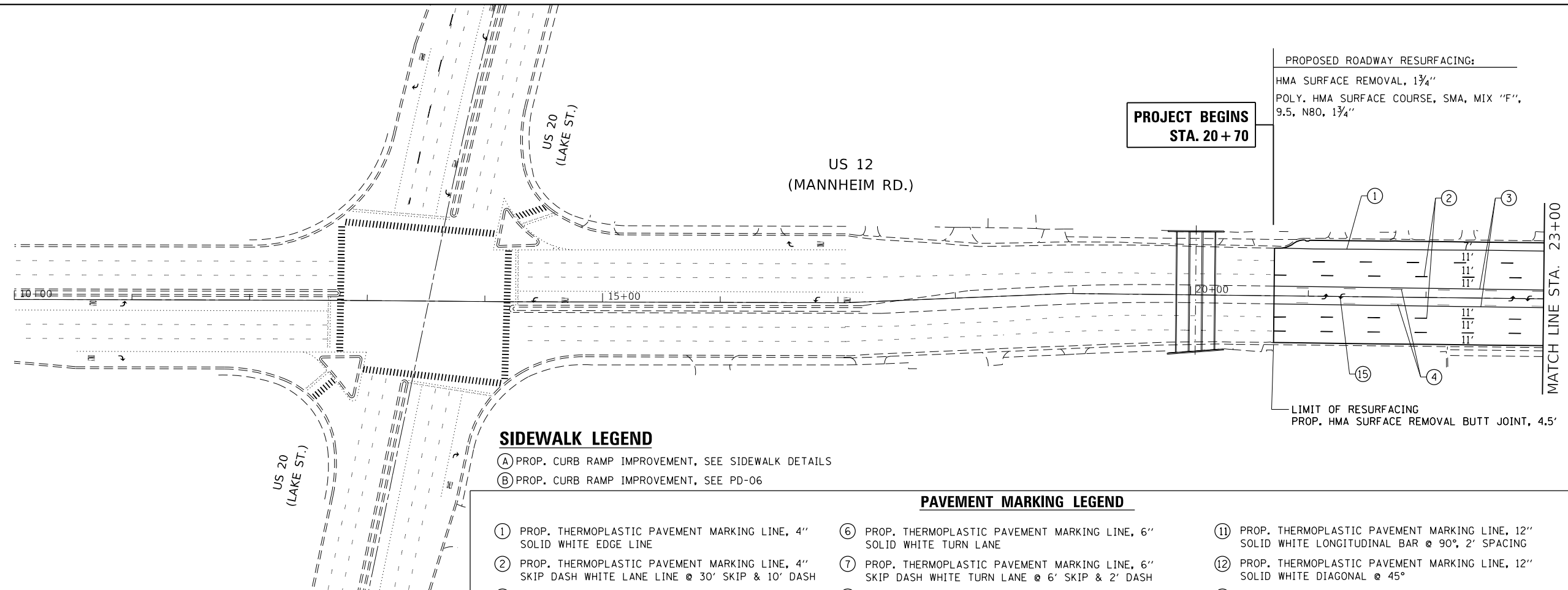
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED TYPICAL SECTIONS
 US 12 (MANNHEIM RD.) (IL 19 (IRVING PARK RD.) TO NOF US 20)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	7
CONTRACT NO. 62J82				
ILLINOIS FED. AID PROJECT				



PROPOSED ROADWAY RESURFACING:
 HMA SURFACE REMOVAL, 1 3/4"
 POLY. HMA SURFACE COURSE, SMA, MIX "F",
 9.5, N80, 1 3/4"

**PROJECT BEGINS
 STA. 20+70**

SIDEWALK LEGEND

- (A) PROP. CURB RAMP IMPROVEMENT, SEE SIDEWALK DETAILS
- (B) PROP. CURB RAMP IMPROVEMENT, SEE PD-06

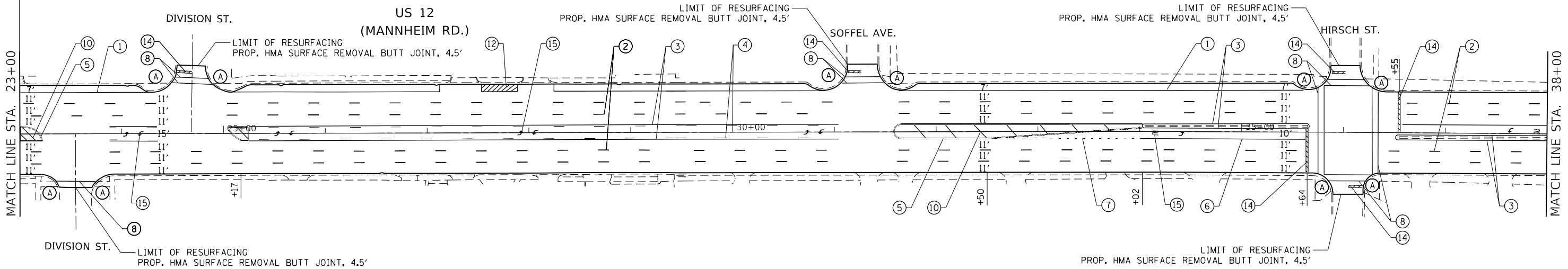
PAVEMENT MARKING LEGEND

- (1) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID WHITE EDGE LINE
- (2) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SKIP DASH WHITE LANE LINE @ 30' SKIP & 10' DASH
- (3) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID YELLOW LINE
- (4) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SKIP DASH YELLOW LINE @ 30' SKIP & 10' DASH
- (5) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C
- (6) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID WHITE TURN LANE
- (7) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SKIP DASH WHITE TURN LANE @ 6' SKIP & 2' DASH
- (8) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID WHITE CROSSWALK LINE, 2 @ 6' C-C
- (9) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 8" SOLID WHITE CHANNELIZING LINE
- (10) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" DIAGONAL SOLID YELLOW LINE @ 75' SPACING OR 5 MIN.
- (11) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID WHITE LONGITUDINAL BAR @ 90°, 2' SPACING
- (12) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID WHITE DIAGONAL @ 45°
- (13) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 24" SOLID WHITE TRANSVERSE LINE
- (14) PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 24" SOLID WHITE STOP BAR
- (15) PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, SOLID WHITE

PLAN NOTE:

ALL PAVEMENT MARKINGS INSTALLED ACCORDING TO IDOT'S D-1 DETAIL TC-13 AND TC-23B.
 ALL RAISED REFLECTIVE PAVEMENT MARKERS INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-11.

PROPOSED ROADWAY RESURFACING:
 HMA SURFACE REMOVAL, 1 3/4"
 POLY. HMA SURFACE COURSE, SMA, MIX "F",
 9.5, N80, 1 3/4"



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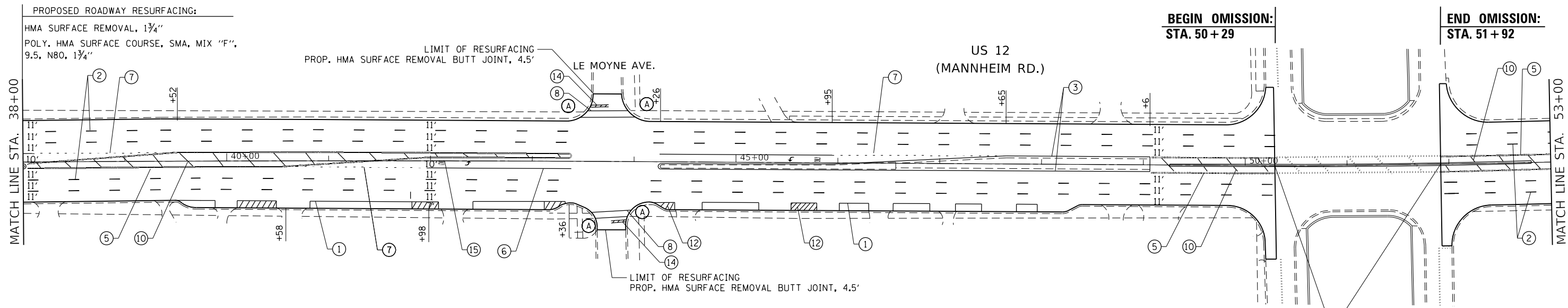
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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PLAN
 US 12 (MANNHEIM RD.) (IL. RTE. 19 (IRVING PARK RD.) TO MOF US 20)**
 SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	8
CONTRACT NO. 62J82				
ILLINOIS FED. AID PROJECT				

IL. RTE. 64
(NORTH AVE.)



BEGIN OMISSION:
STA. 50+29

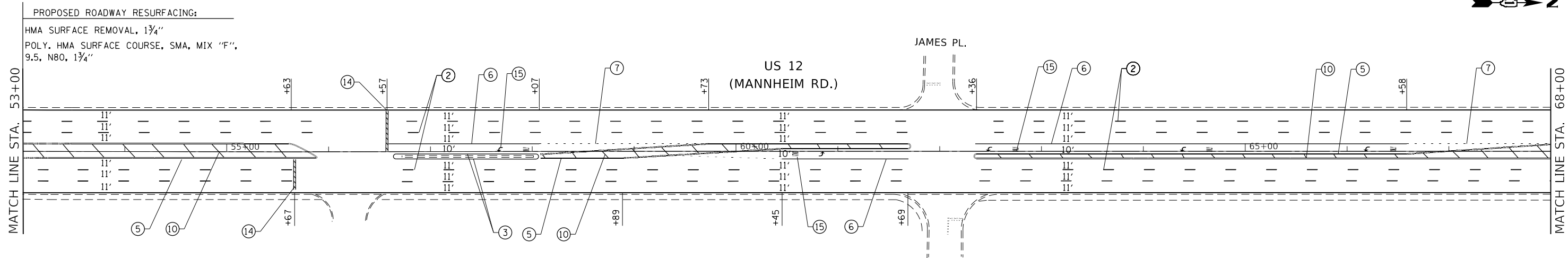
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STA. 51+92

PLAN NOTE:
ALL PAVEMENT MARKINGS INSTALLED ACCORDING TO IDOT'S D-1 DETAIL TC-13 AND TC-23B.
ALL RAISED REFLECTIVE PAVEMENT MARKERS INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-11.

PAVEMENT MARKING LEGEND

- | | | |
|---|---|---|
| ① PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID WHITE EDGE LINE | ⑥ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID WHITE TURN LANE | ⑪ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID WHITE LONGITUDINAL BAR @ 90°, 2' SPACING |
| ② PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SKIP DASH WHITE LANE LINE @ 30' SKIP & 10' DASH | ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SKIP DASH WHITE TURN LANE @ 6' SKIP & 2' DASH | ⑫ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID WHITE DIAGONAL @ 45° |
| ③ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID YELLOW LINE | ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID WHITE CROSSWALK LINE, 2 @ 6' C-C | ⑬ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 24" SOLID WHITE TRANSVERSE LINE |
| ④ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SKIP DASH YELLOW LINE @ 30' SKIP & 10' DASH | ⑨ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 8" SOLID WHITE CHANNELIZING LINE | ⑭ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 24" SOLID WHITE STOP BAR |
| ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C | ⑩ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" DIAGONAL SOLID YELLOW LINE @ 75' SPACING OR 5 MIN. | ⑮ PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, SOLID WHITE |

SIDEWALK LEGEND
A PROP. CURB RAMP IMPROVEMENT, SEE SIDEWALK DETAILS
B PROP. CURB RAMP IMPROVEMENT, SEE PD-06



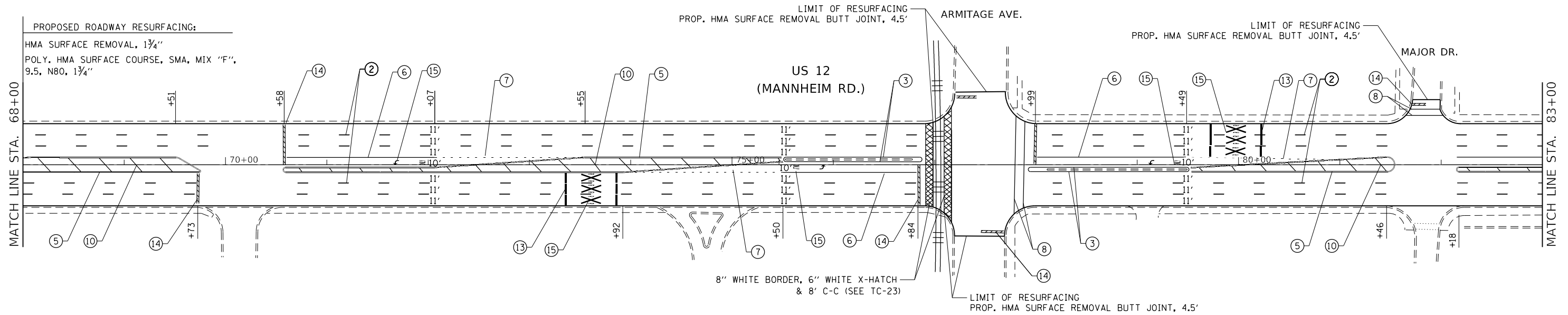
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED ROADWAY PLAN
US 12 (MANNHEIM RD.) (IL. RTE. 19 (IRVING PARK RD.) TO MOF US 20)
SCALE: 1"= 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	9
CONTRACT NO. 62J82				
ILLINOIS FED. AID PROJECT				



PLAN NOTE:

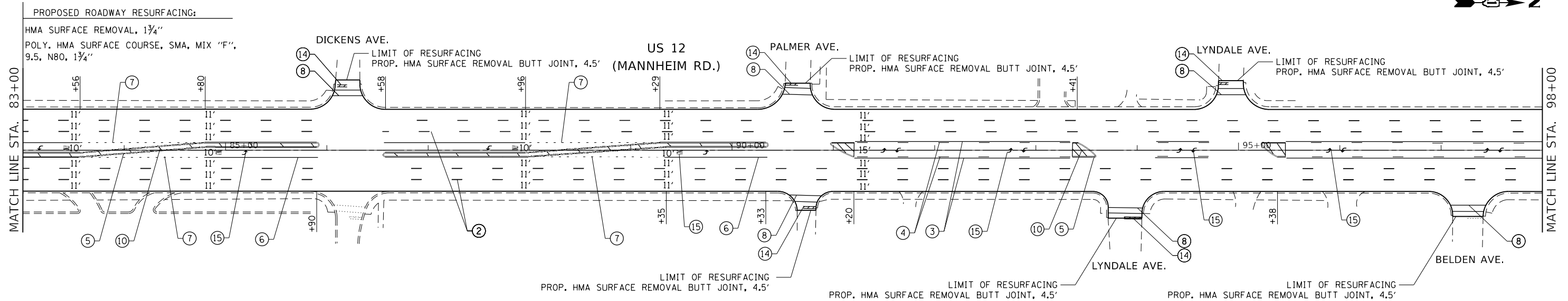
ALL PAVEMENT MARKINGS INSTALLED ACCORDING TO IDOT'S D-1 DETAIL TC-13 AND TC-23B.
 ALL RAISED REFLECTIVE PAVEMENT MARKERS INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-11.

PAVEMENT MARKING LEGEND

- | | | |
|---|---|---|
| ① PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID WHITE EDGE LINE | ⑥ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID WHITE TURN LANE | ⑪ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID WHITE LONGITUDINAL BAR @ 90°, 2' SPACING |
| ② PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SKIP DASH WHITE LANE LINE @ 30' SKIP & 10' DASH | ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SKIP DASH WHITE TURN LANE @ 6' SKIP & 2' DASH | ⑫ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID WHITE DIAGONAL @ 45° |
| ③ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID YELLOW LINE | ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID WHITE CROSSWALK LINE, 2 @ 6' C-C | ⑬ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 24" SOLID WHITE TRANSVERSE LINE |
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| ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C | ⑩ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" DIAGONAL SOLID YELLOW LINE @ 75' SPACING OR 5 MIN. | ⑮ PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, SOLID WHITE |

SIDEWALK LEGEND

- Ⓐ PROP. CURB RAMP IMPROVEMENT, SEE SIDEWALK DETAILS
 Ⓑ PROP. CURB RAMP IMPROVEMENT, SEE PD-06



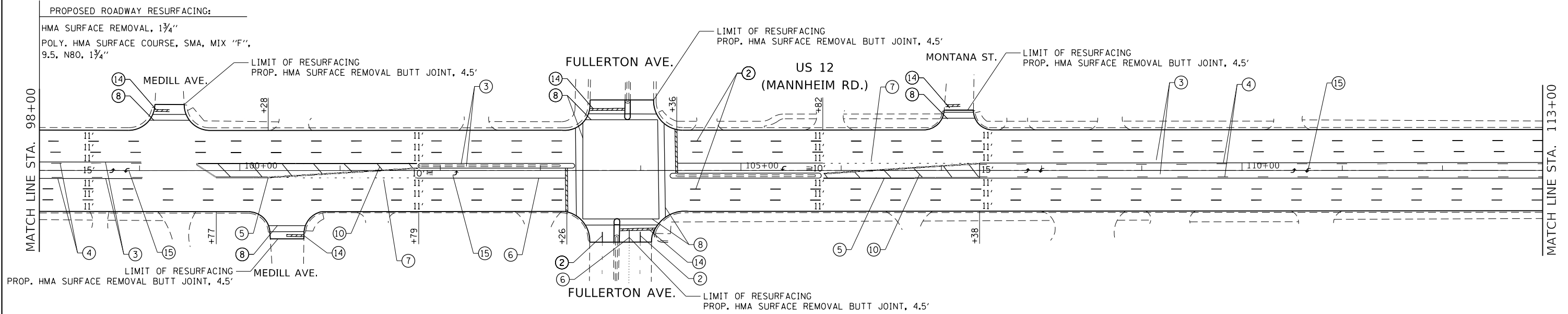
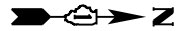
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	DRAWN -	REVISED -
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PLOT DATE = 2/1/2020	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PLAN
 US 12 (MANNHEIM RD.) (IL. RTE. 19 (IRVING PARK RD.) TO MOF US 20)**
 SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 2019-104-R5&SW	COUNTY COOK	TOTAL SHEETS 40	SHEET NO. 10
CONTRACT NO. 62J82				
ILLINOIS FED. AID PROJECT				



PLAN NOTE:

ALL PAVEMENT MARKINGS INSTALLED ACCORDING TO IDOT'S D-1 DETAIL TC-13 AND TC-23B.

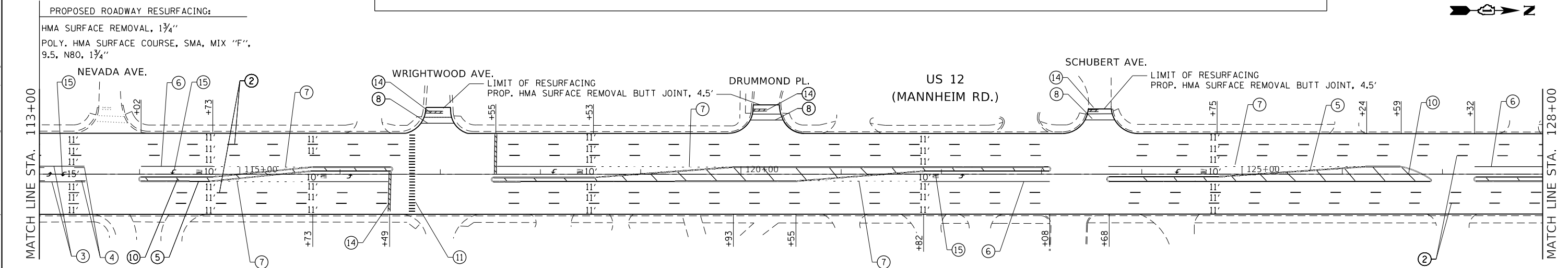
ALL RAISED REFLECTIVE PAVEMENT MARKERS INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-11.

SIDEWALK LEGEND

- (A) PROP. CURB RAMP IMPROVEMENT, SEE SIDEWALK DETAILS
- (B) PROP. CURB RAMP IMPROVEMENT, SEE PD-06

PAVEMENT MARKING LEGEND

- ① PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID WHITE EDGE LINE
- ② PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SKIP DASH WHITE LANE LINE @ 30' SKIP & 10' DASH
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- ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C
- ⑥ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID WHITE TURN LANE
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- ⑩ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" DIAGONAL SOLID YELLOW LINE @ 75' SPACING OR 5 MIN.
- ⑪ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID WHITE LONGITUDINAL BAR @ 90°, 2' SPACING
- ⑫ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID WHITE DIAGONAL @ 45°
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- ⑭ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 24" SOLID WHITE STOP BAR
- ⑮ PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, SOLID WHITE



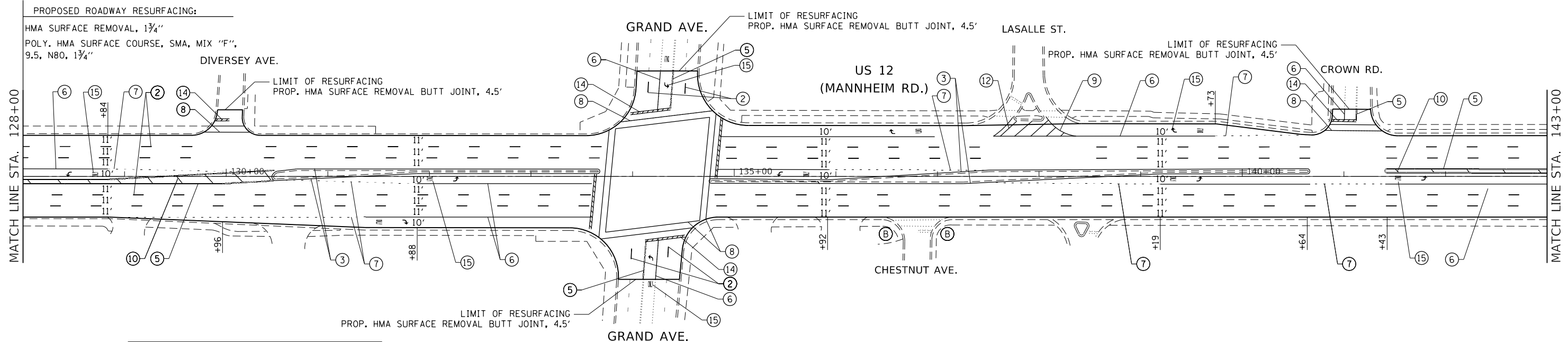
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	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED ROADWAY PLAN
US 12 (MANNHEIM RD.) (IL. RTE. 19 (IRVING PARK RD.) TO MOF US 20)
 SCALE: 1" = 50' SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	11
CONTRACT NO. 62J82				
ILLINOIS FED. AID PROJECT				



PLAN NOTE:

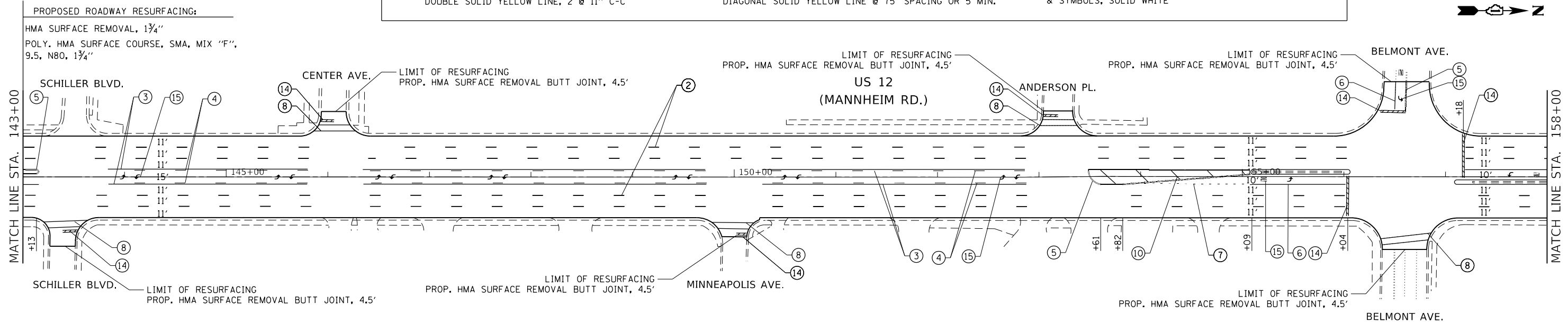
ALL PAVEMENT MARKINGS INSTALLED ACCORDING TO IDOT'S D-1 DETAIL TC-13 AND TC-23B.
 ALL RAISED REFLECTIVE PAVEMENT MARKERS INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-11.

PAVEMENT MARKING LEGEND

- | | | |
|---|---|---|
| ① PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID WHITE EDGE LINE | ⑥ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID WHITE TURN LANE | ⑪ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID WHITE LONGITUDINAL BAR @ 90°, 2' SPACING |
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SIDEWALK LEGEND

- Ⓐ PROP. CURB RAMP IMPROVEMENT, SEE SIDEWALK DETAILS
 Ⓑ PROP. CURB RAMP IMPROVEMENT, SEE PD-06



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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

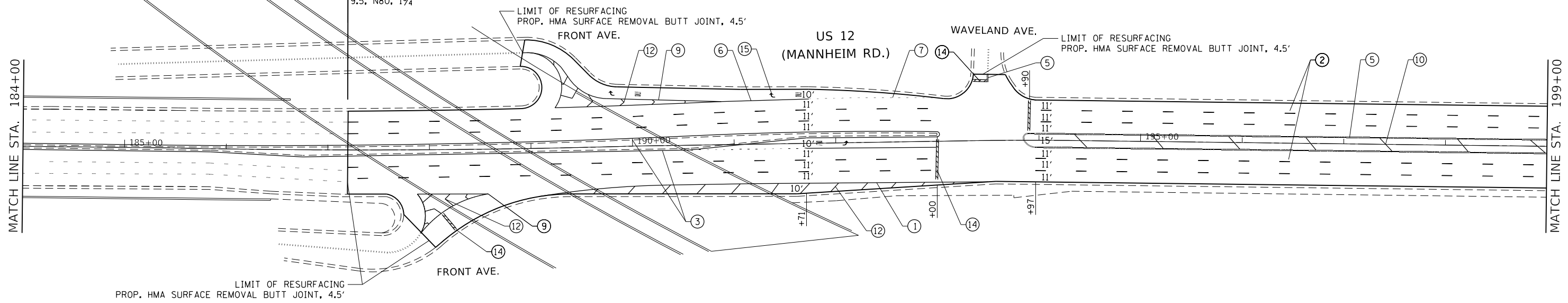
EXISTING AND PROPOSED ROADWAY PLAN	
US 12 (MANNHEIM RD.) (IL. RTE. 19 (IRVING PARK RD.) TO MOF US 20)	
SCALE: 1" = 50'	SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 330	SECTION 2019-104-R5&SW	COUNTY COOK	TOTAL SHEETS 40	SHEET NO. 12
CONTRACT NO. 62J82				
ILLINOIS FED. AID PROJECT				

**END OMISSION:
STA. 187+20**

PROPOSED ROADWAY RESURFACING:

HMA SURFACE REMOVAL, 1 3/4"
POLY. HMA SURFACE COURSE, SMA, MIX "F",
9.5, N80, 1 3/4"



PLAN NOTE:

ALL PAVEMENT MARKINGS INSTALLED ACCORDING TO IDOT'S D-1 DETAIL TC-13 AND TC-23B.

ALL RAISED REFLECTIVE PAVEMENT MARKERS INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-11.

SIDEWALK LEGEND

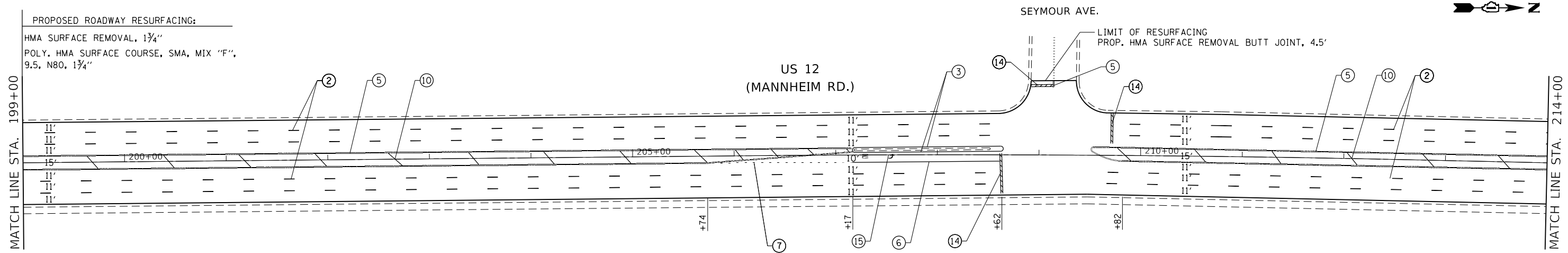
- (A) PROP. CURB RAMP IMPROVEMENT, SEE SIDEWALK DETAILS
- (B) PROP. CURB RAMP IMPROVEMENT, SEE PD-06

PAVEMENT MARKING LEGEND

- ① PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID WHITE EDGE LINE
- ② PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SKIP DASH WHITE LANE LINE @ 30' SKIP & 10' DASH
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- ⑥ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID WHITE TURN LANE
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- ⑭ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 24" SOLID WHITE STOP BAR
- ⑮ PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, SOLID WHITE

PROPOSED ROADWAY RESURFACING:

HMA SURFACE REMOVAL, 1 3/4"
POLY. HMA SURFACE COURSE, SMA, MIX "F",
9.5, N80, 1 3/4"



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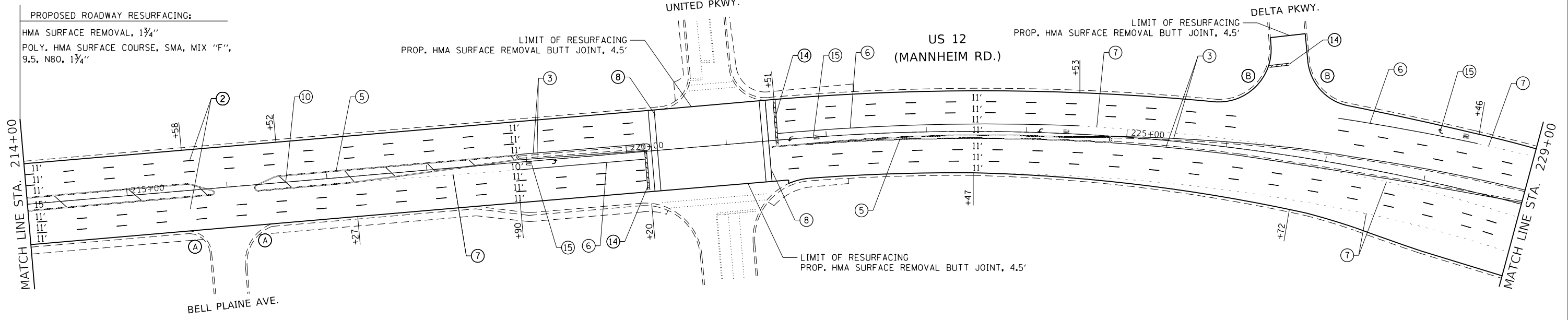
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PLOT DATE = 2/1/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PLAN
US 12 (MANNHEIM RD.) (IL. RTE. 19 (IRVING PARK RD.) TO MOF US 20)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	14
CONTRACT NO. 62J82				
ILLINOIS FED. AID PROJECT				



PROPOSED ROADWAY RESURFACING:
 HMA SURFACE REMOVAL, 1 3/4"
 POLY. HMA SURFACE COURSE, SMA, MIX "F",
 9.5, N80, 1 3/4"

LIMIT OF RESURFACING
 PROP. HMA SURFACE REMOVAL BUTT JOINT, 4.5'

LIMIT OF RESURFACING
 PROP. HMA SURFACE REMOVAL BUTT JOINT, 4.5'

US 12
 (MANNHEIM RD.)

SIDEWALK LEGEND

- (A) PROP. CURB RAMP IMPROVEMENT, SEE SIDEWALK DETAILS
- (B) PROP. CURB RAMP IMPROVEMENT, SEE PD-06

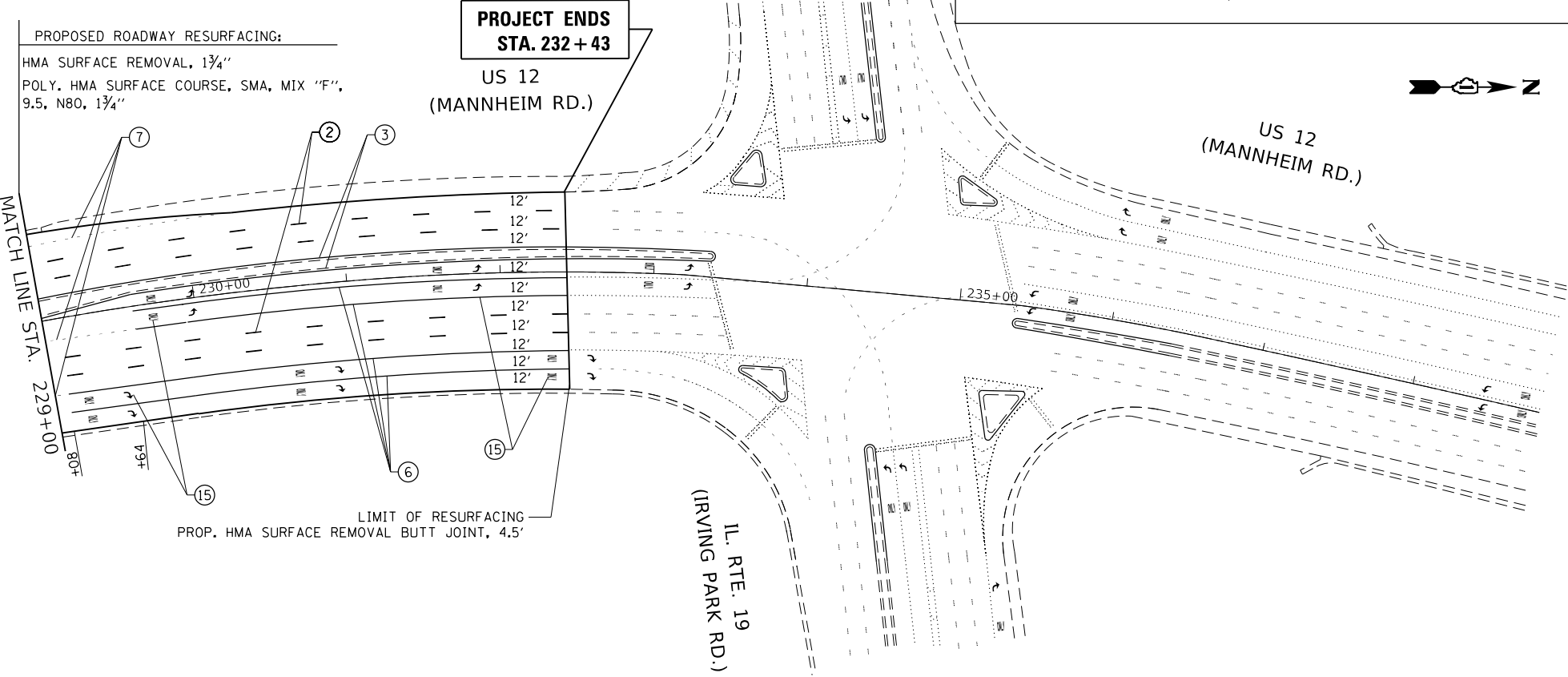
PLAN NOTE:

ALL PAVEMENT MARKINGS INSTALLED ACCORDING TO IDOT'S D-1 DETAIL TC-13 AND TC-23B.

 ALL RAISED REFLECTIVE PAVEMENT MARKERS INSTALLED ACCORDING TO IDOT'S D1 DETAIL TC-11.

PAVEMENT MARKING LEGEND

- ① PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" SOLID WHITE EDGE LINE
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- ⑤ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C
- ⑥ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID WHITE TURN LANE
- ⑦ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SKIP DASH WHITE TURN LANE @ 6' SKIP & 2' DASH
- ⑧ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 6" SOLID WHITE CROSSWALK LINE, 2 @ 6' C-C
- ⑨ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 8" SOLID WHITE CHANNELIZING LINE
- ⑩ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" DIAGONAL SOLID YELLOW LINE @ 75' SPACING OR 5 MIN.
- ⑪ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID WHITE LONGITUDINAL BAR @ 90°, 2' SPACING
- ⑫ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 12" SOLID WHITE DIAGONAL @ 45°
- ⑬ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 24" SOLID WHITE TRANSVERSE LINE
- ⑭ PROP. THERMOPLASTIC PAVEMENT MARKING LINE, 24" SOLID WHITE STOP BAR
- ⑮ PROP. THERMOPLASTIC PAVEMENT MARKING LETTERS & SYMBOLS, SOLID WHITE



PROPOSED ROADWAY RESURFACING:
 HMA SURFACE REMOVAL, 1 3/4"
 POLY. HMA SURFACE COURSE, SMA, MIX "F",
 9.5, N80, 1 3/4"

PROJECT ENDS
 STA. 232 + 43

US 12
 (MANNHEIM RD.)

IRVING PARK RD.
 (IL. RTE. 19)

LIMIT OF RESURFACING
 PROP. HMA SURFACE REMOVAL BUTT JOINT, 4.5'

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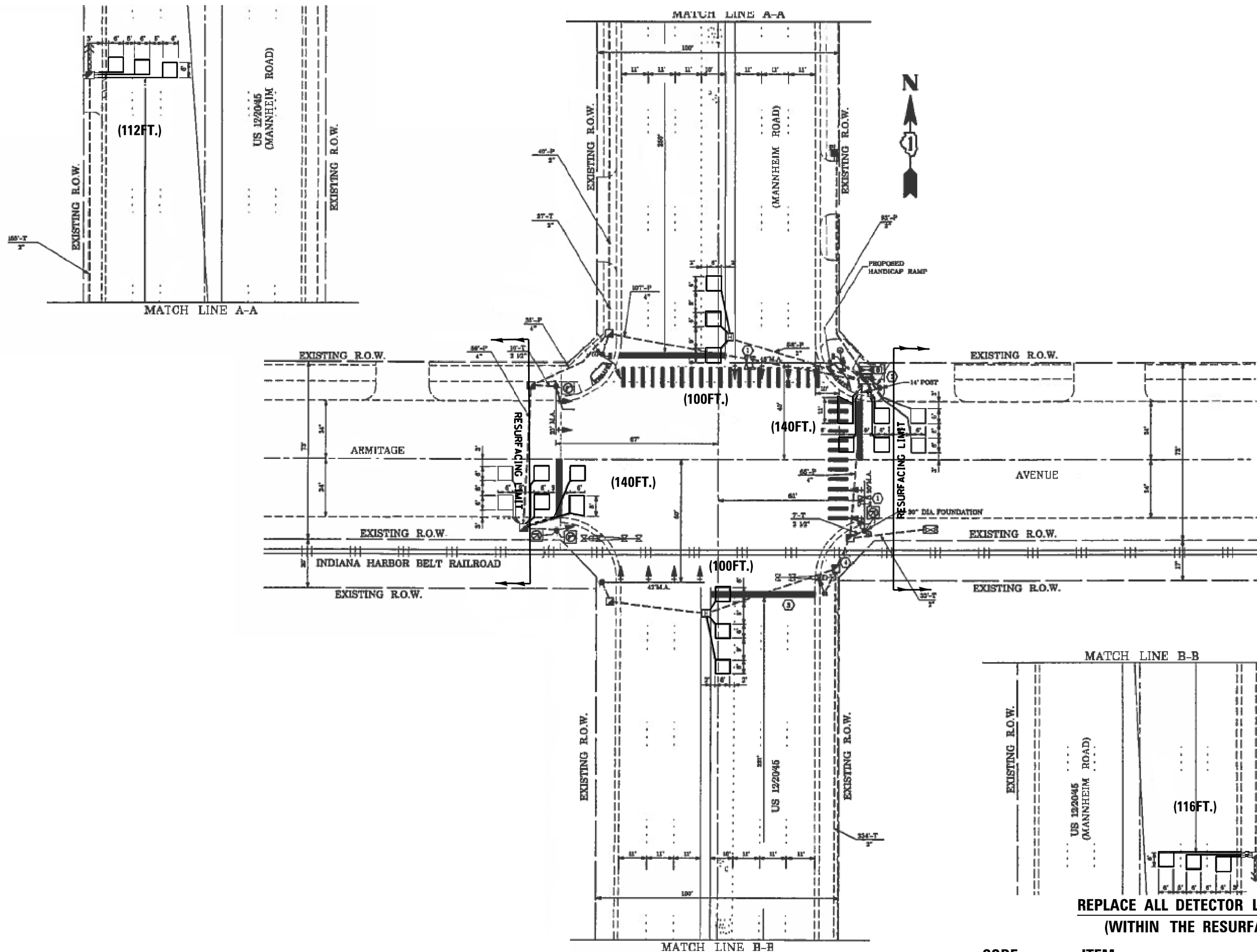
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED ROADWAY PLAN
 US 12 (MANNHEIM RD.) (IL. RTE. 19 (IRVING PARK RD.) TO MOF US 20)

F.A.P. RTE. 330	SECTION 2019-104-R5&SW	COUNTY COOK	TOTAL SHEETS 40	SHEET NO. 15
CONTRACT NO. 62J82				
ILLINOIS FED. AID PROJECT				

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



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

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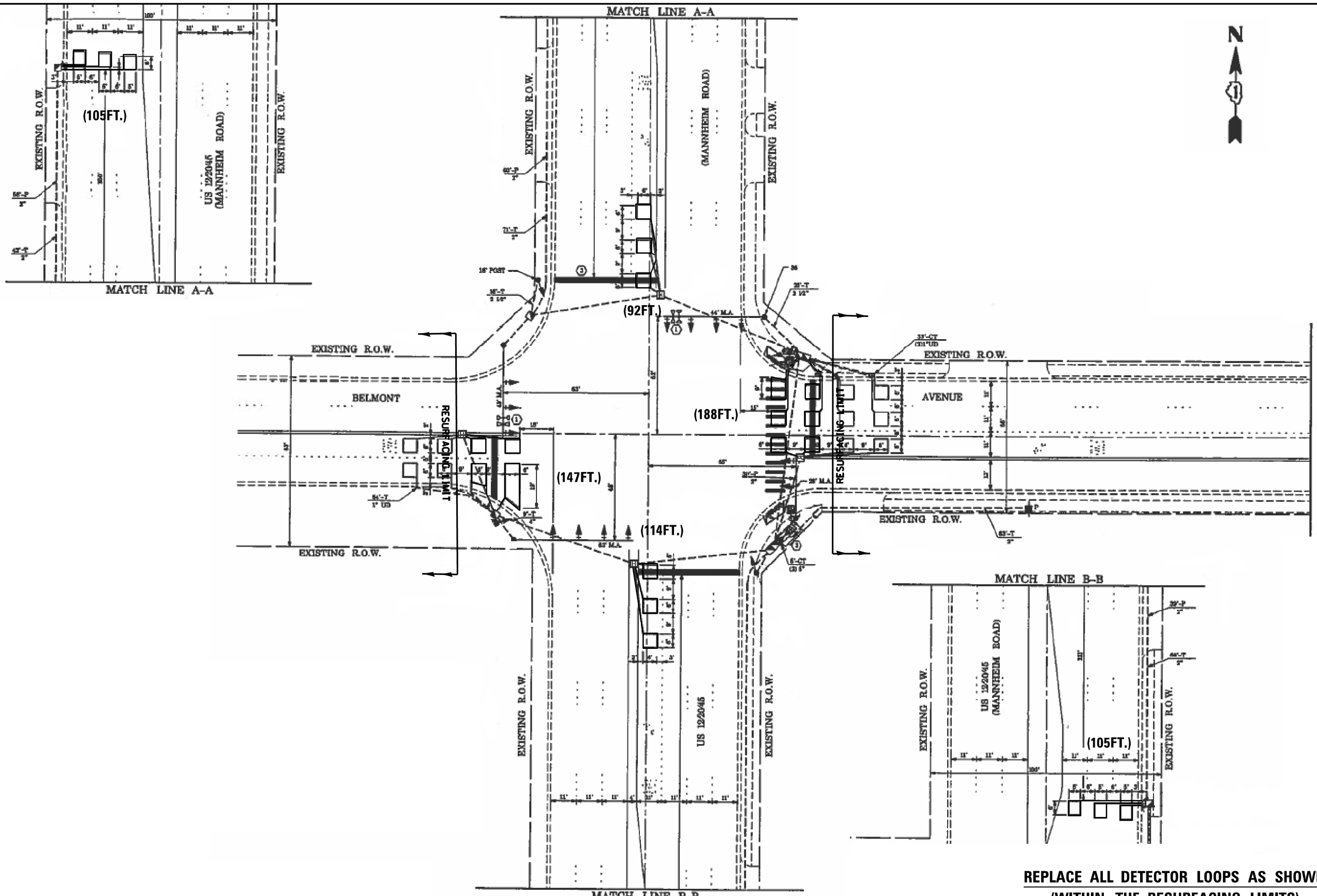
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Default	PLOT DATE = 12/12/2019	DATE - 11/25/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
US 12/2045 MANNHEIM RD. AT ARMITAGE AVE.**

SCALE: SHEET OF SHEETS STA. TO STA.

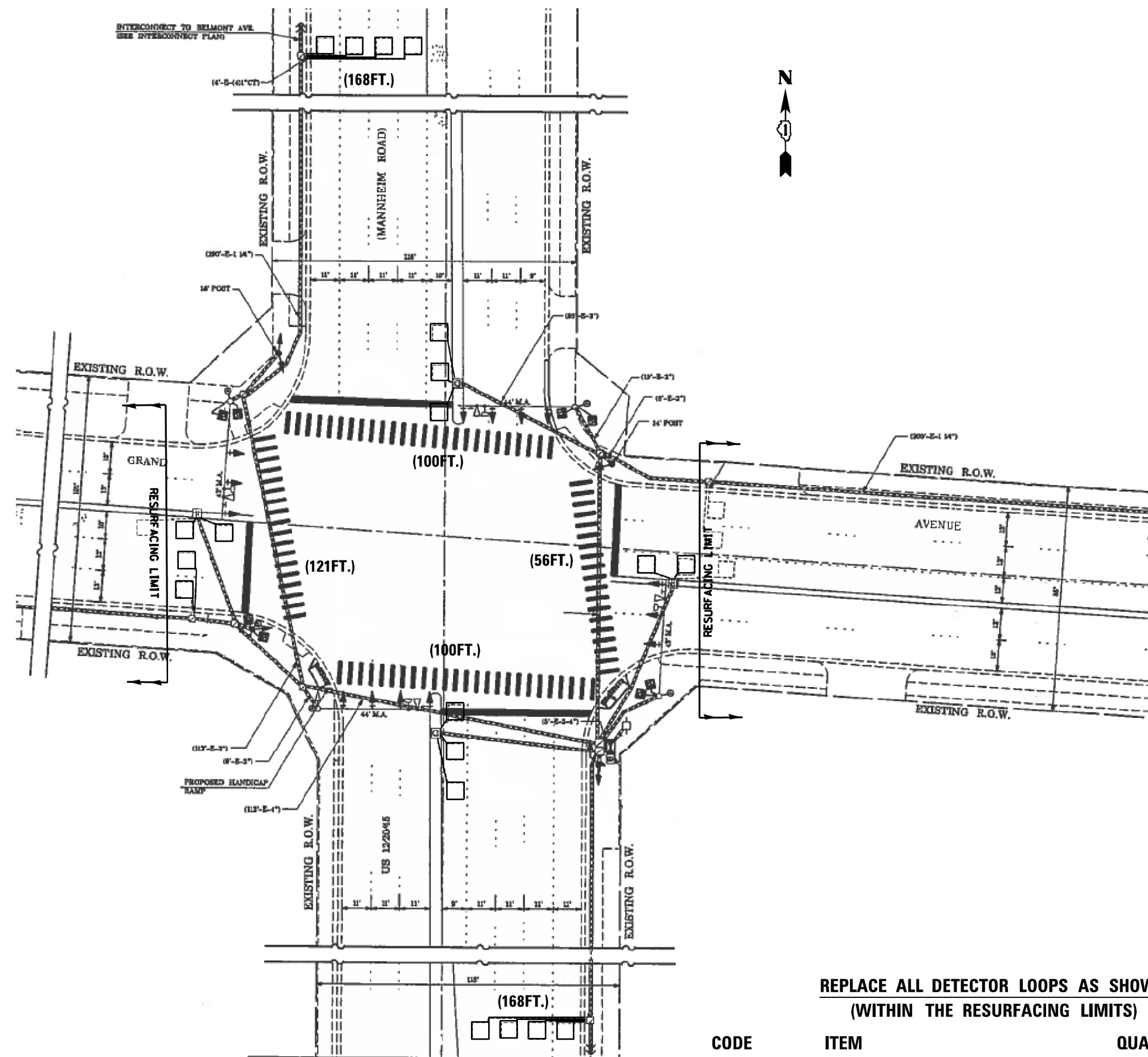
F.A.P. RTE. 330	SECTION 2019-104-R5&SW	COUNTY COOK	TOTAL SHEETS 40	SHEET NO. 16
				CONTRACT NO. 62J82
ILLINOIS FED. AID PROJECT				



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

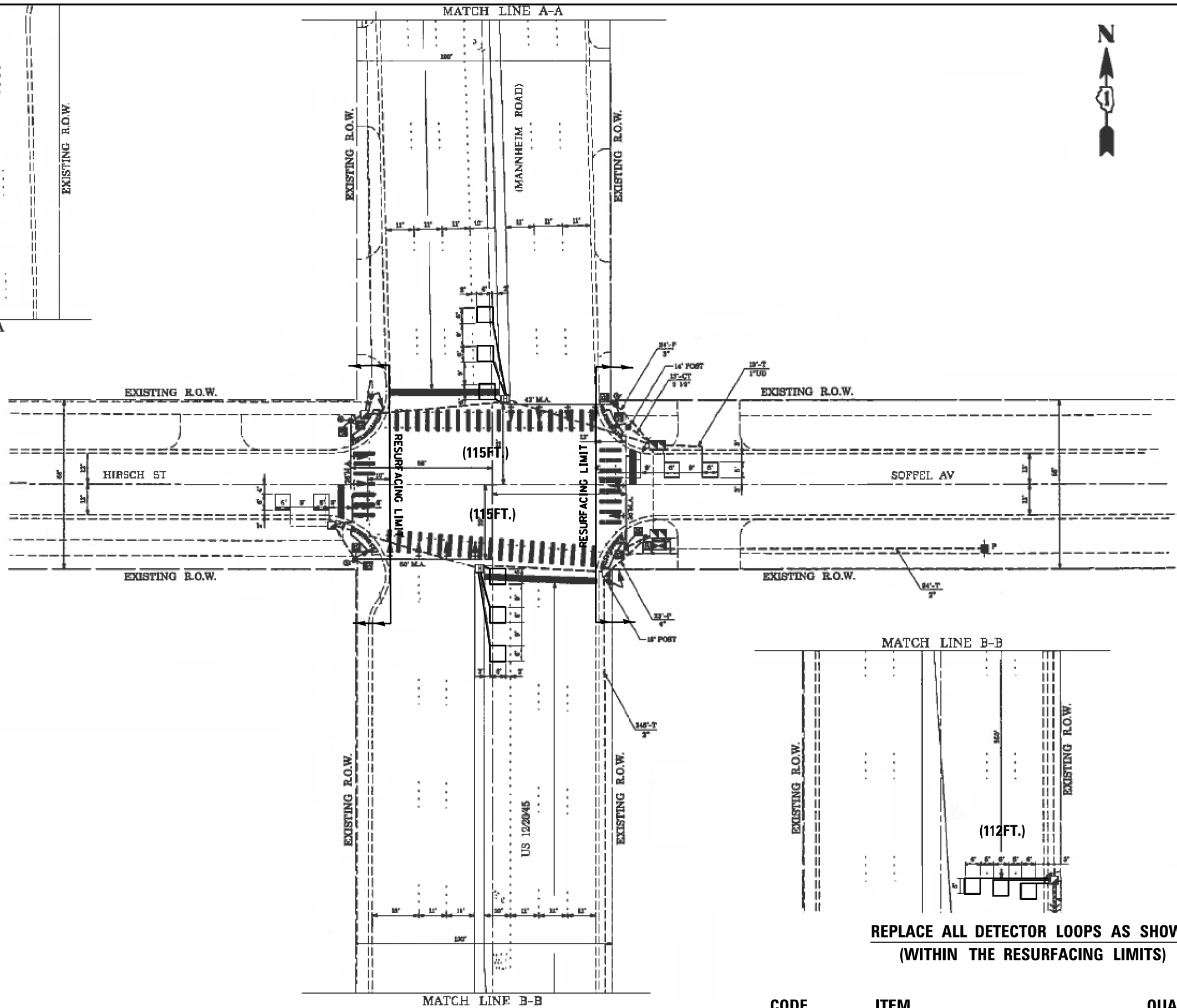
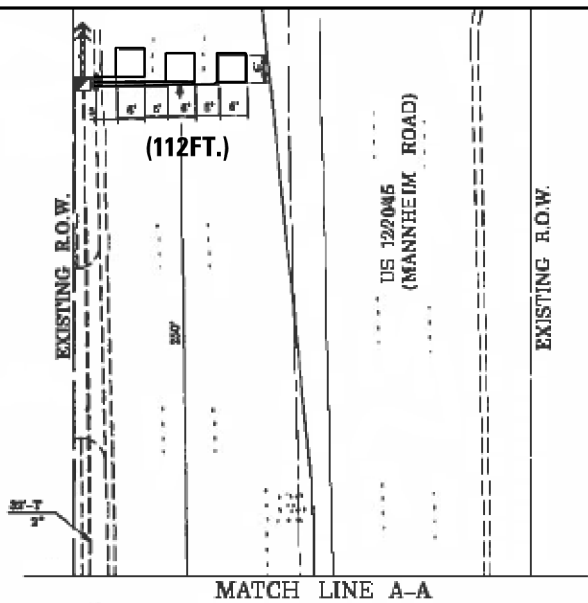
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88600600	DETECTOR LOOP REPLACEMENT	751	FOOT

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	PLOT DATE = 12/12/2019					ILLINOIS FED. AID PROJECT					



REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS)			
CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	713	FOOT

FILE NAME =	USER NAME = mezag	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN US 12/20/45 MANNHEIM RD. AT GRAND AVE.	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
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Default	PLOT SCALE = 48,0000' / in.	DATE - 11/26/2019	REVISED -			CONTRACT NO. 62J82					
	PLOT DATE = 12/12/2019					ILLINOIS FED. AID PROJECT					



CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	454	FOOT

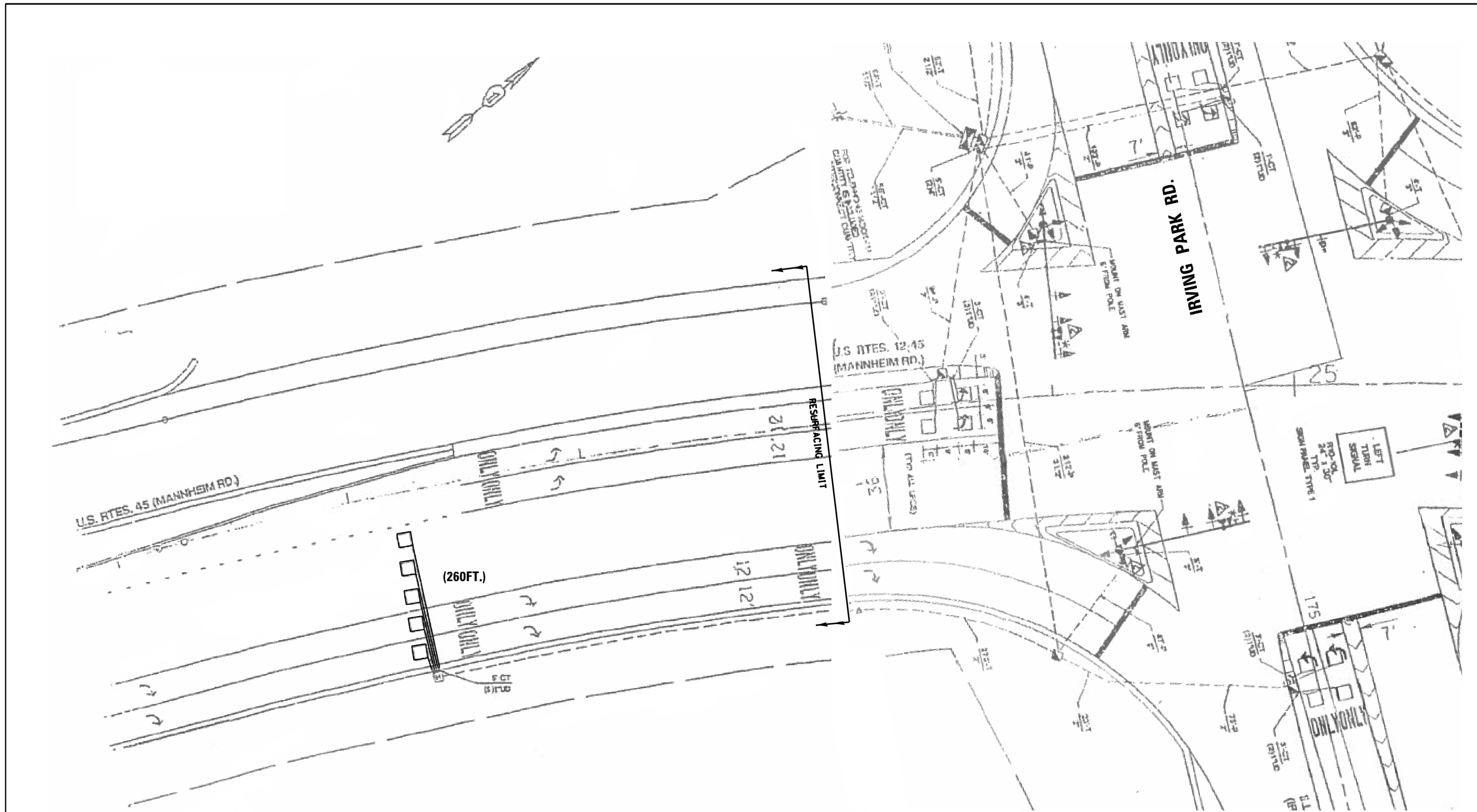
**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETECTOR LOOP REPLACEMENT PLAN			
US 122045 MANNHEIM RD. AT HIRSCH ST. (SOFFEL AVE.)			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	20
CONTRACT NO. 62J82				
ILLINOIS FED. AID PROJECT				



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

CODE	ITEM	QUANTITY	UNIT
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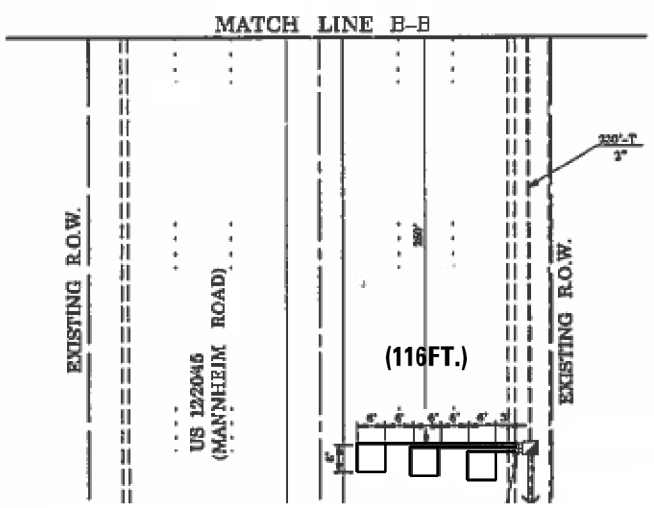
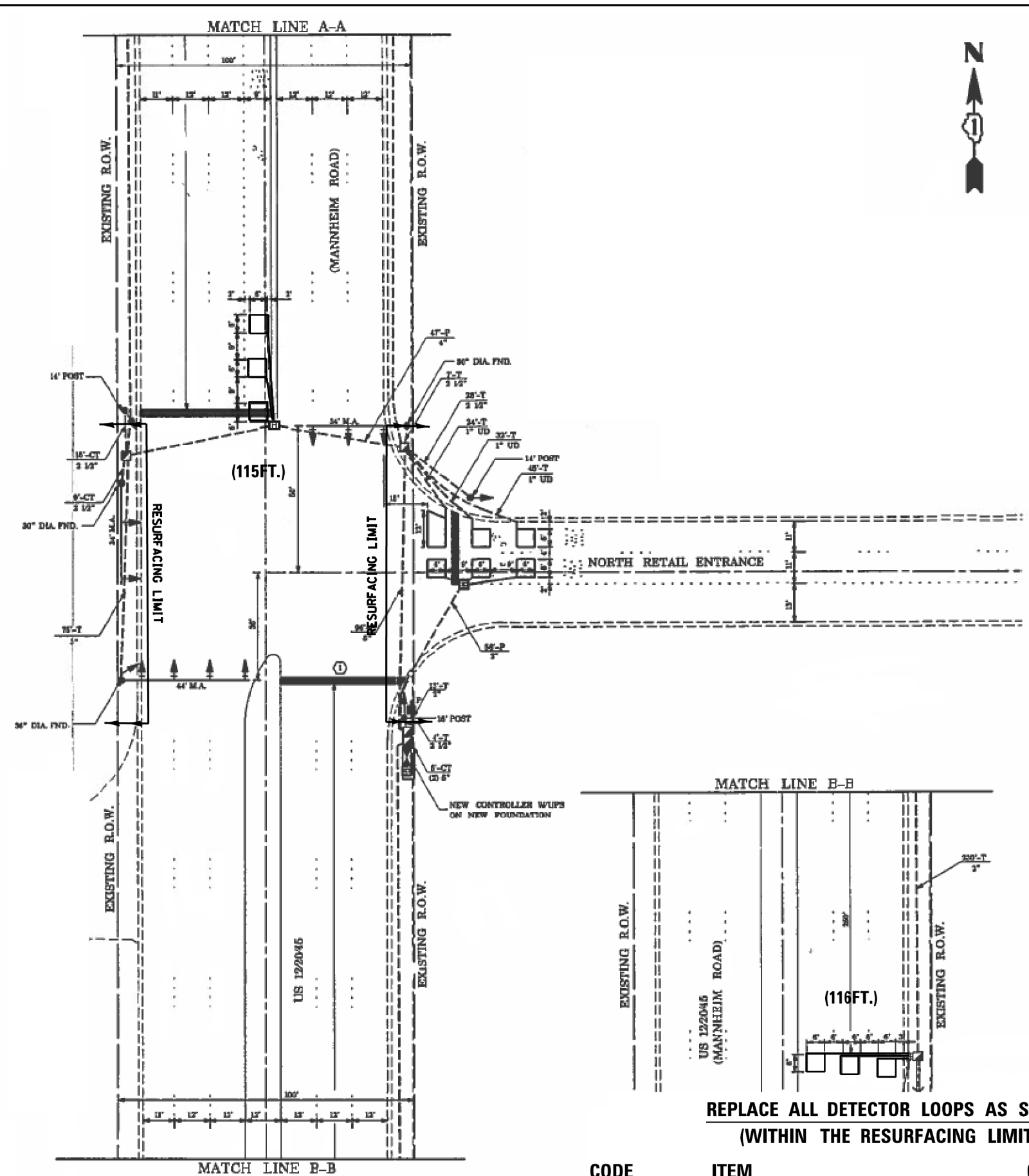
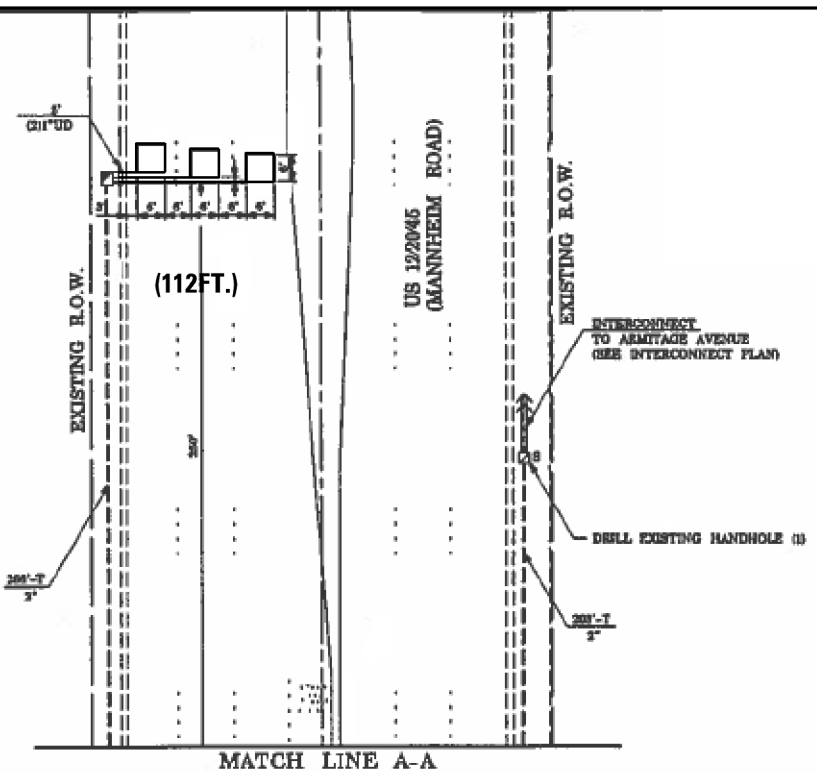
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C:\Users\mezag\Desktop\Detector Loops\2019\62J82 US 12, Mannheim Rd.-Cook\CADD\TSDRAWN Mannheim Rd@Cook\Irving Park.kgd			
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Default	PLOT DATE = 12/12/2019	DATE - 11/27/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
US 12/20/45 MANNHEIM RD. AT IRVING PARK (SOUTH LEG)**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	21
CONTRACT NO. 62J82				
ILLINOIS FED. AID PROJECT				

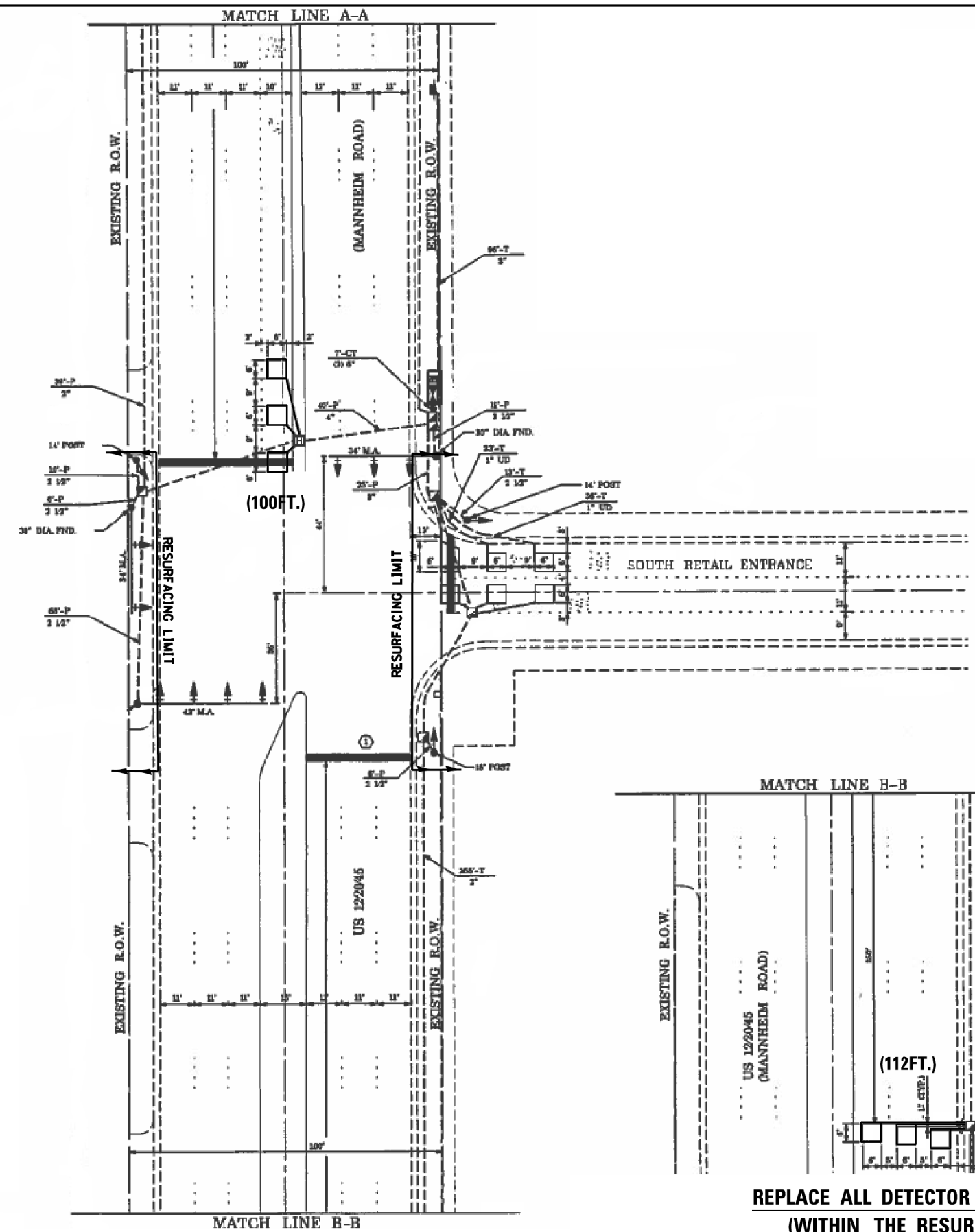
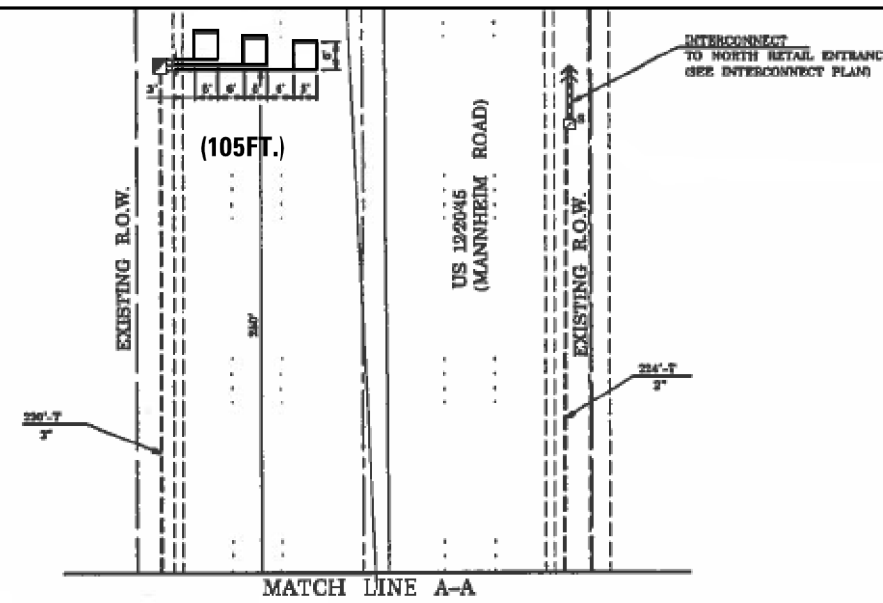
SCALE: SHEET OF SHEETS STA. TO STA.



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	343	FOOT

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C:\Users\mezag\Desktop\Detector Loops\2019\62J82 (US 12, Mannheim Rd., Cook)\CADD\TS	DRAWN Mannheim Rd@Melrose Crossing North	CHECKED - S.N.	REVISED -			330	2019-104-R5&SW	COOK	40	22	
Default	PLOT SCALE = 48.0000' / in.	DATE - 11/25/2019	REVISED -			CONTRACT NO. 62J82					
	PLOT DATE = 12/12/2019					ILLINOIS FED. AID PROJECT					



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	317	FOOT

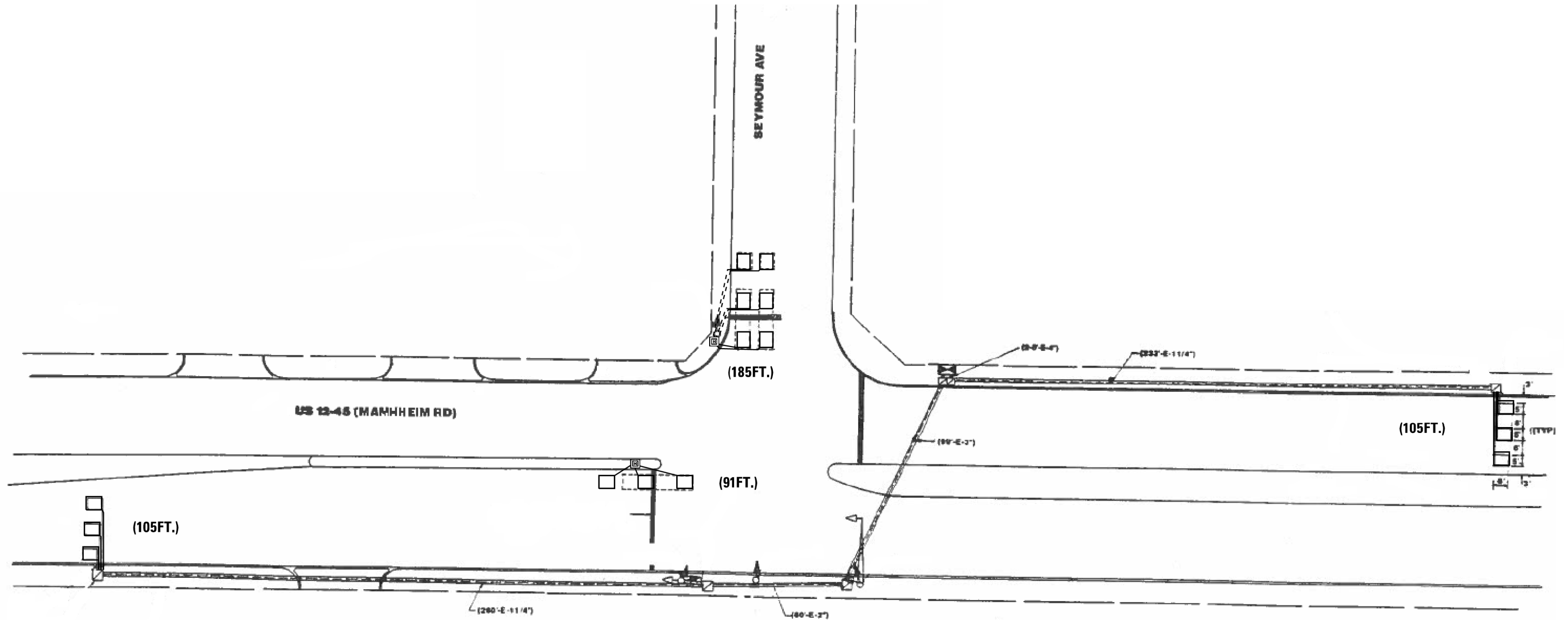
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Default	PLOT DATE = 12/12/2019	DATE - 11/25/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
US 12/2045 MANNHEIM RD. AT MELROSE CROSSING SOUTH ENTRANCE**

F.A.P. RTE. 330	SECTION 2019-104-R5&SW	COUNTY COOK	TOTAL SHEETS 40	SHEET NO. 23
CONTRACT NO. 62J82				ILLINOIS FED. AID PROJECT

SCALE: SHEET OF SHEETS STA. TO STA.



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	486	FOOT

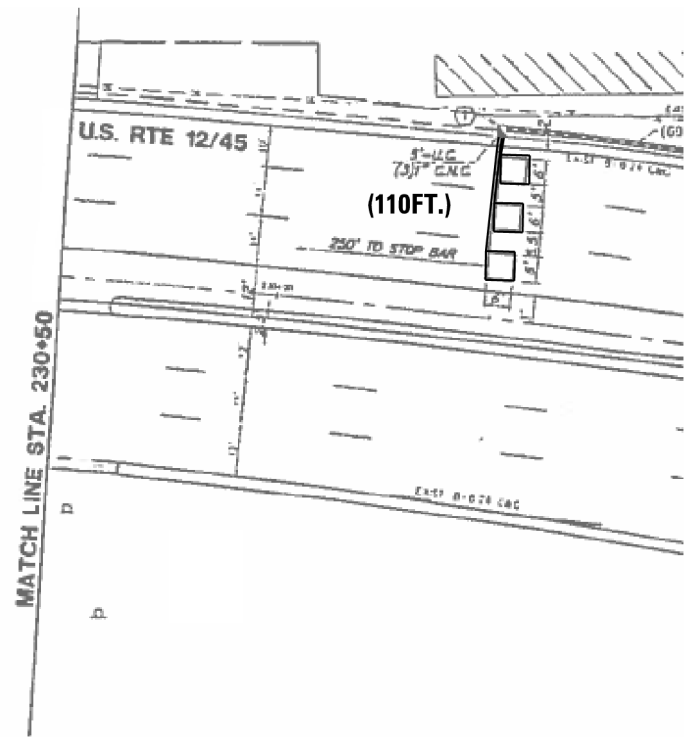
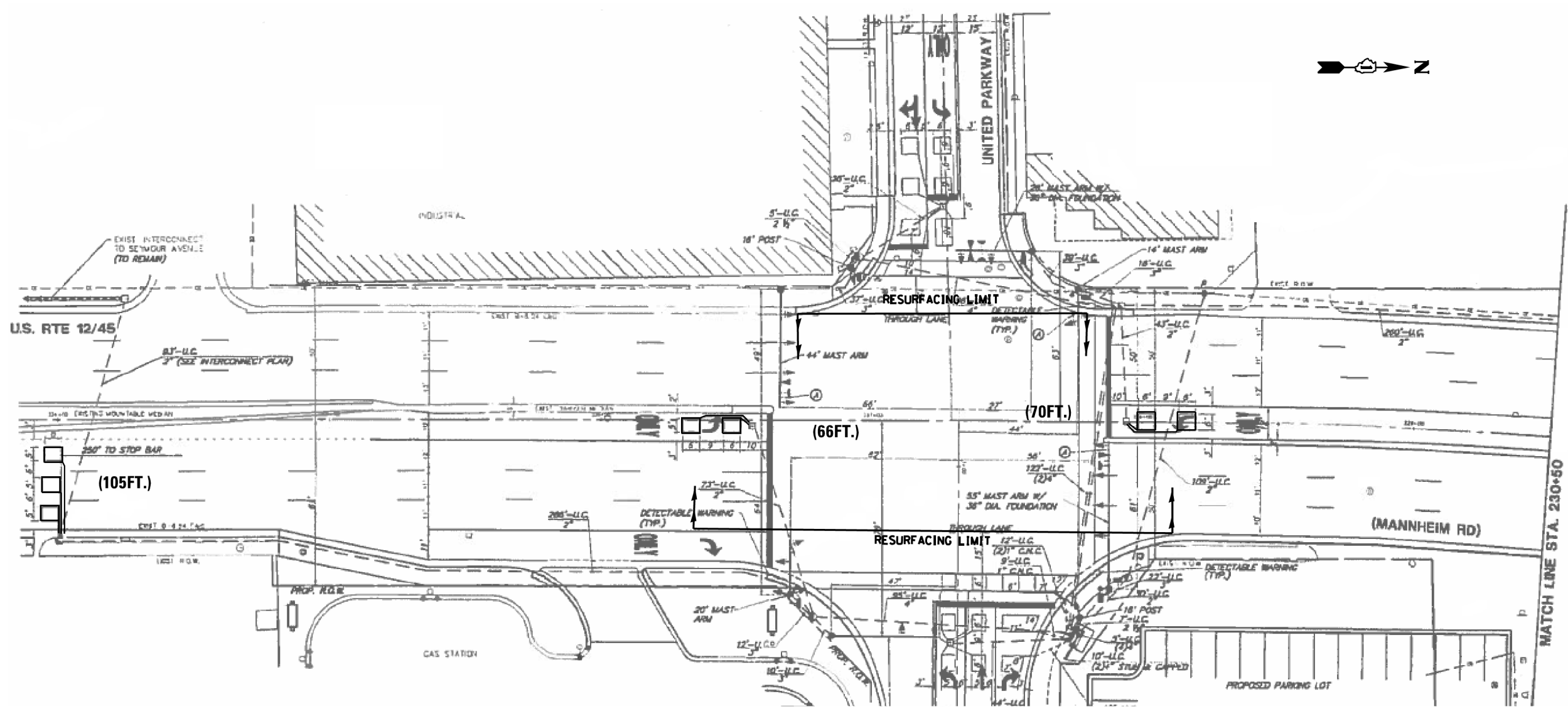
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	PLOT DATE = 12/12/2019	DATE - 11/26/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
US 12/045 MANNHEIM RD. AT SEYMOUR AVE.**

SCALE: SHEET OF SHEETS STA. TO STA.

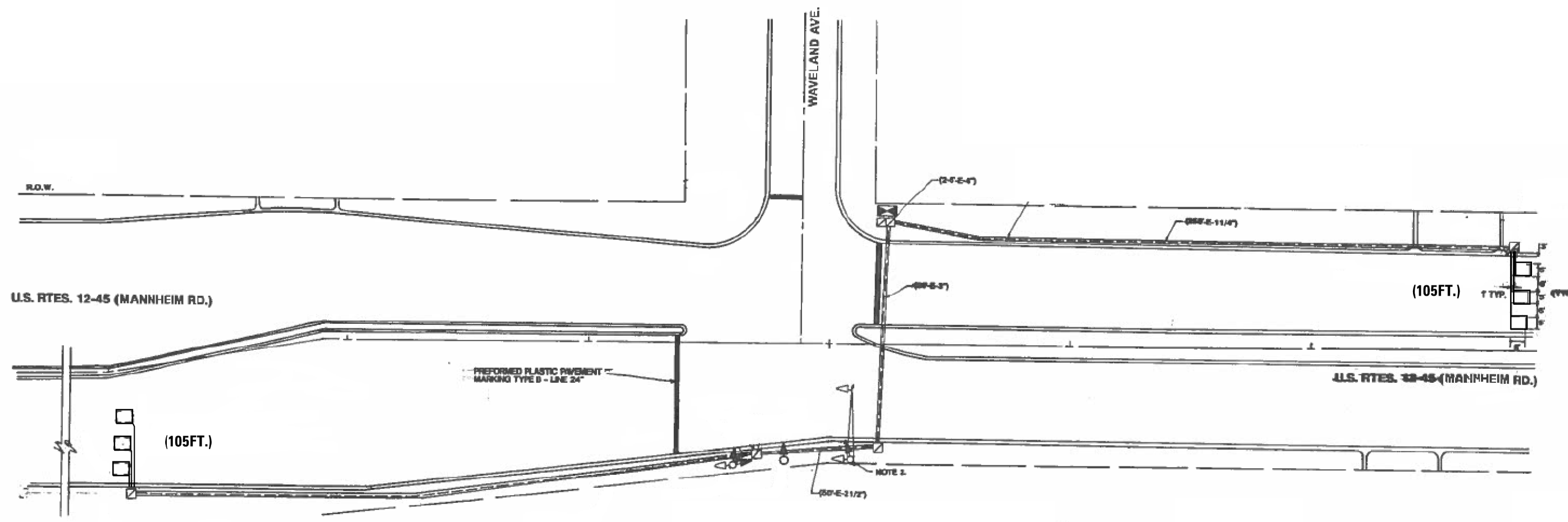
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62J82	



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	351	FOOT

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	PLOT DATE = 12/12/2019					ILLINOIS FED. AID PROJECT					

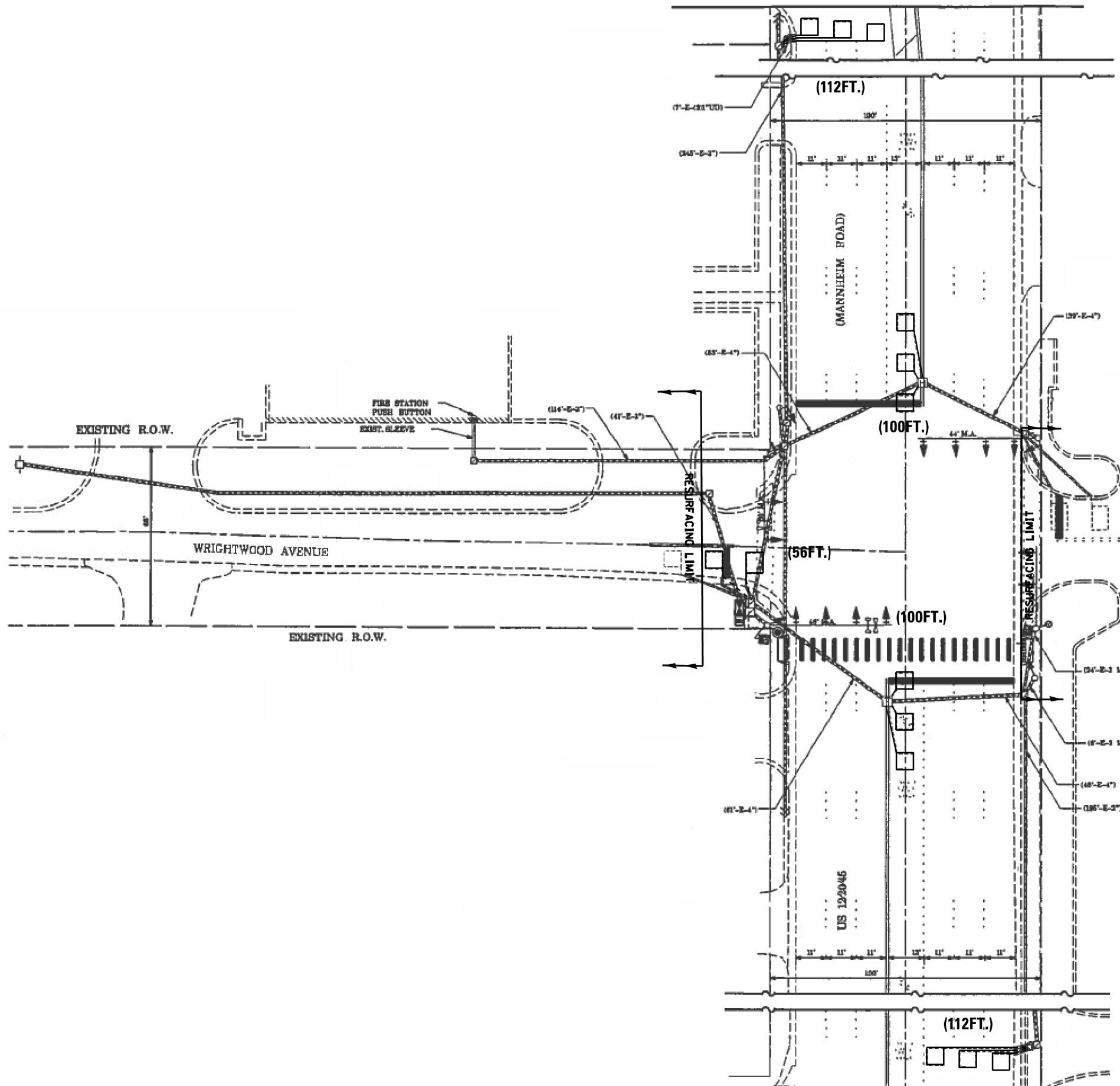


**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
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Default	PLOT SCALE = 48,0000' / in.	DATE - 11/26/2019	REVISED -			CONTRACT NO. 62J82					
	PLOT DATE = 12/12/2019					SCALE:	SHEET	OF	SHEETS	STA.	TO

ILLINOIS FED. AID PROJECT



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

CODE	ITEM	QUANTITY	UNIT
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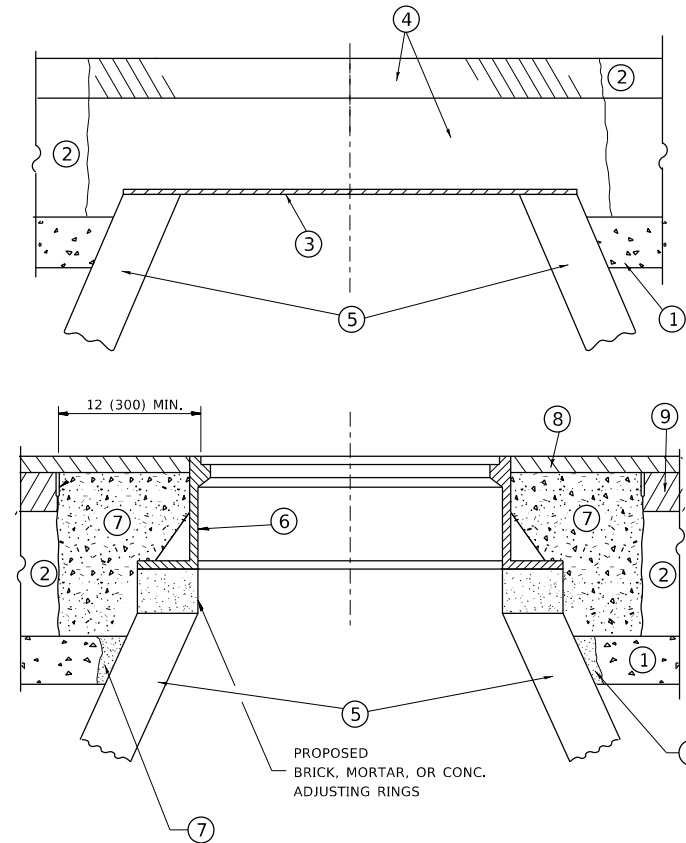
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	PLOT DATE = 12/12/2019	DATE - 11/26/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
US 12/20/45 MANNHEIM RD. AT WRIGHTWOOD AVE.**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	27
CONTRACT NO. 62J82				
ILLINOIS FED. AID PROJECT				



CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
- B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1½ (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

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

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

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

NOTES

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

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

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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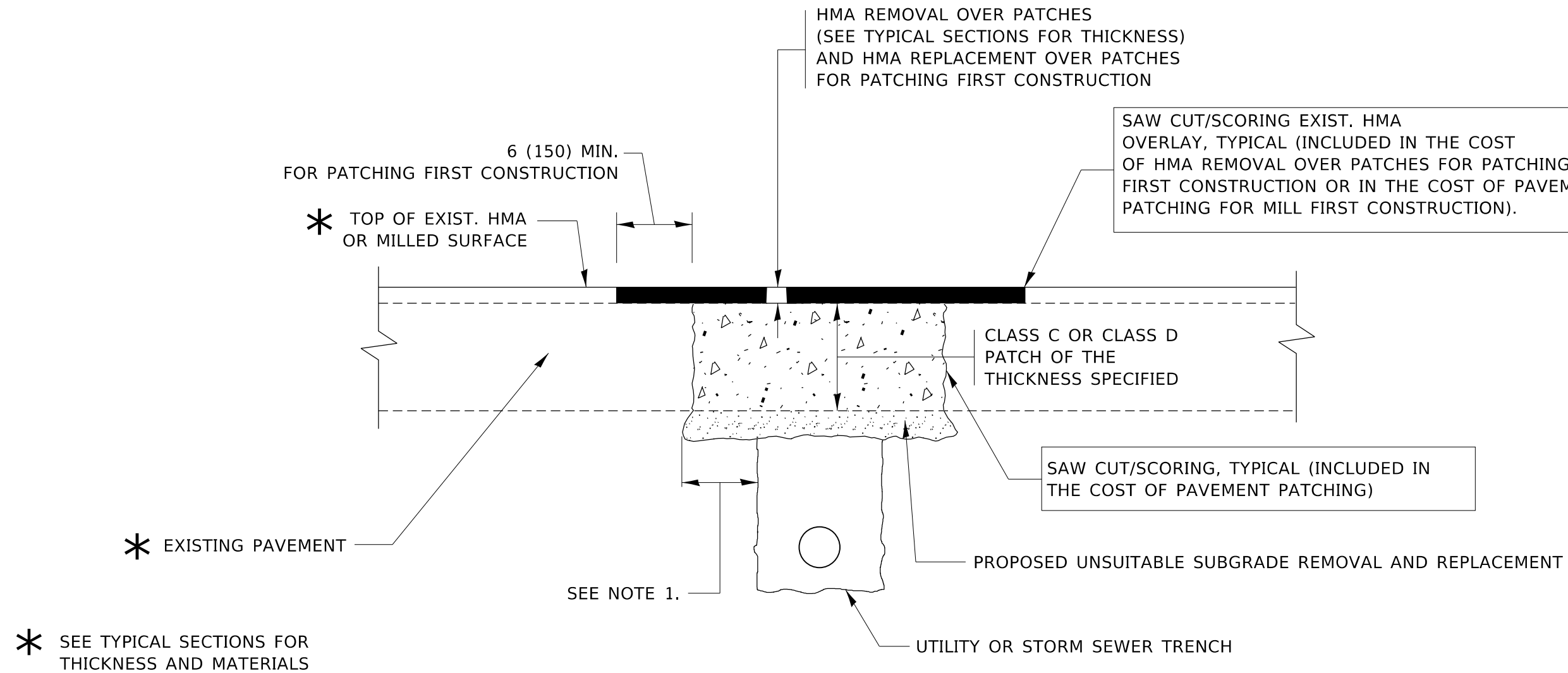
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	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 03-09-11
PLOT DATE = 1/31/2020	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	28
BD600-03 (BD-8)		CONTRACT NO. 62J82		
ILLINOIS		FED. AID PROJECT		



NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

MODEL: Default
FILE NAME: PavementRoom.dwg
PROJECT: 2019-104-R5&SW
OFFICE: BORO
DATE: 1/31/2020

USER NAME = shirani	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98
	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - R. BORO 09-04-07
PLOT DATE = 1/31/2020	DATE - 10-25-94	REVISED - K. ENG 10-27-08

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	29
BD400-04 (BD-22)		CONTRACT NO. 62J82		
ILLINOIS FED. AID PROJECT				

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE 2)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE 2)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001

18" (450) MAX.

EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

¼" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE 1).

EXISTING CONCRETE PAVEMENT, CONCRETE BASE COURSE OR FLEXIBLE PAVEMENT

3" (75) MIN.

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED ¾" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

* 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.

UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE 3).

NOTE:

- SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.
- FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED.
- CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
- THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
- THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

BASIS OF PAYMENT

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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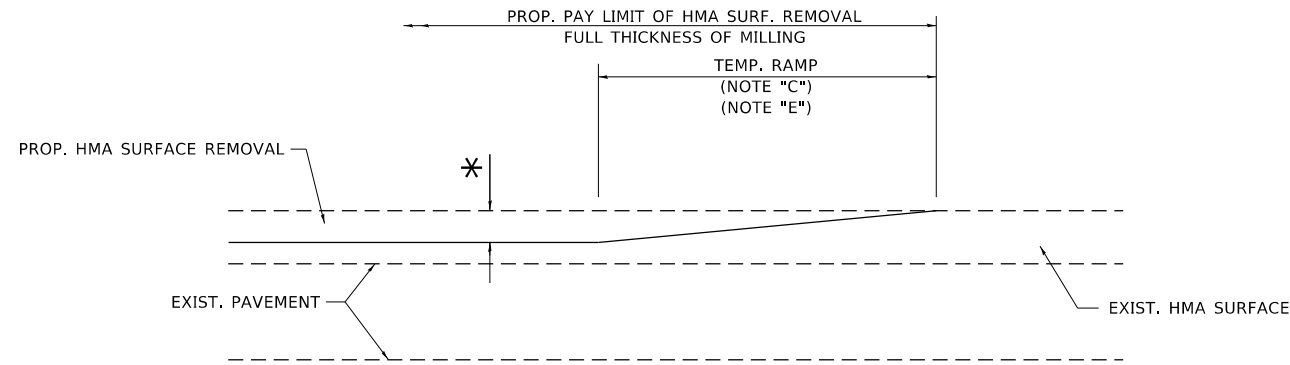
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PLOT DATE = 1/31/2020	DATE - 03-11-94	REVISED - R. BORO 12-15-09

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

CURB OR CURB AND GUTTER
REMOVAL AND REPLACEMENT

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

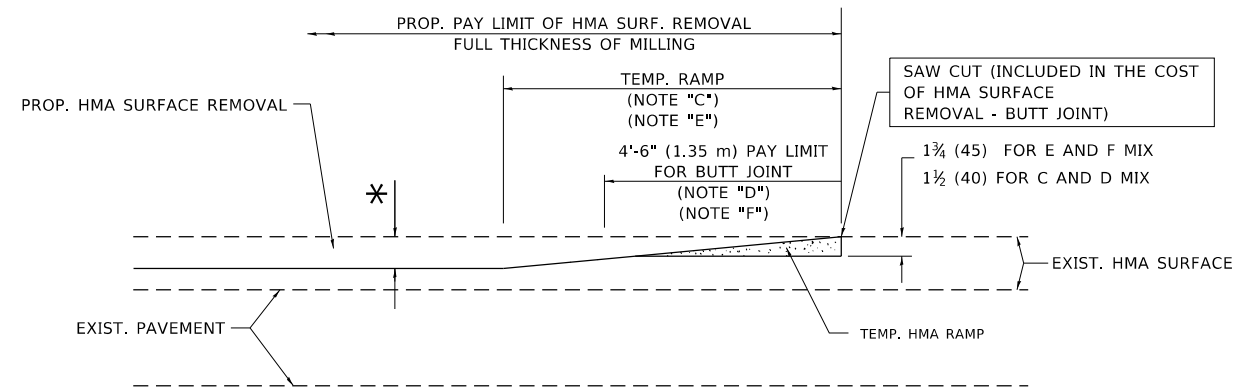
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330	2019-104-R5&SW	COOK	40	30
BD600-06 (BD-24)		CONTRACT NO. 62J82		
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

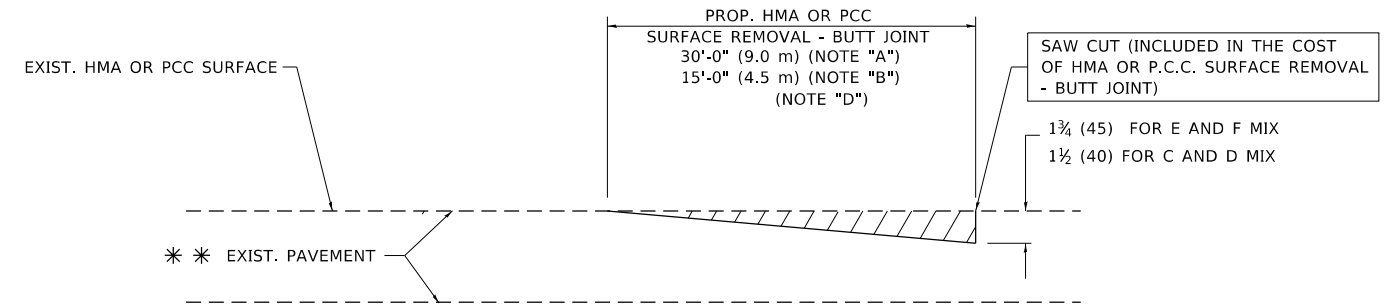


HMA CONSTRUCTED TEMPORARY RAMP

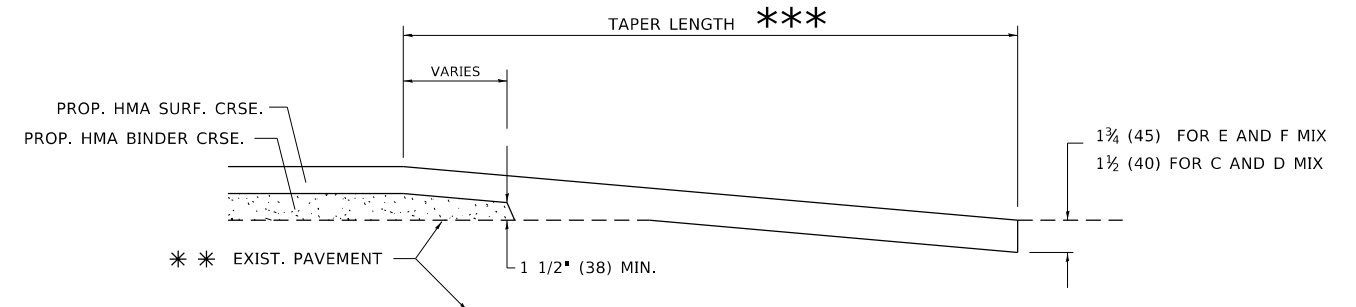
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

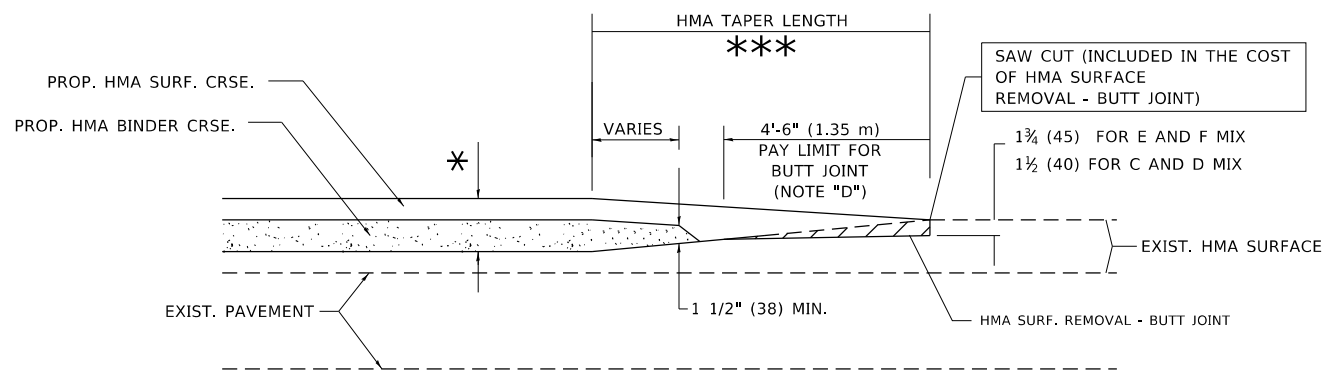
NOTES

- A. MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
- F. INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- G. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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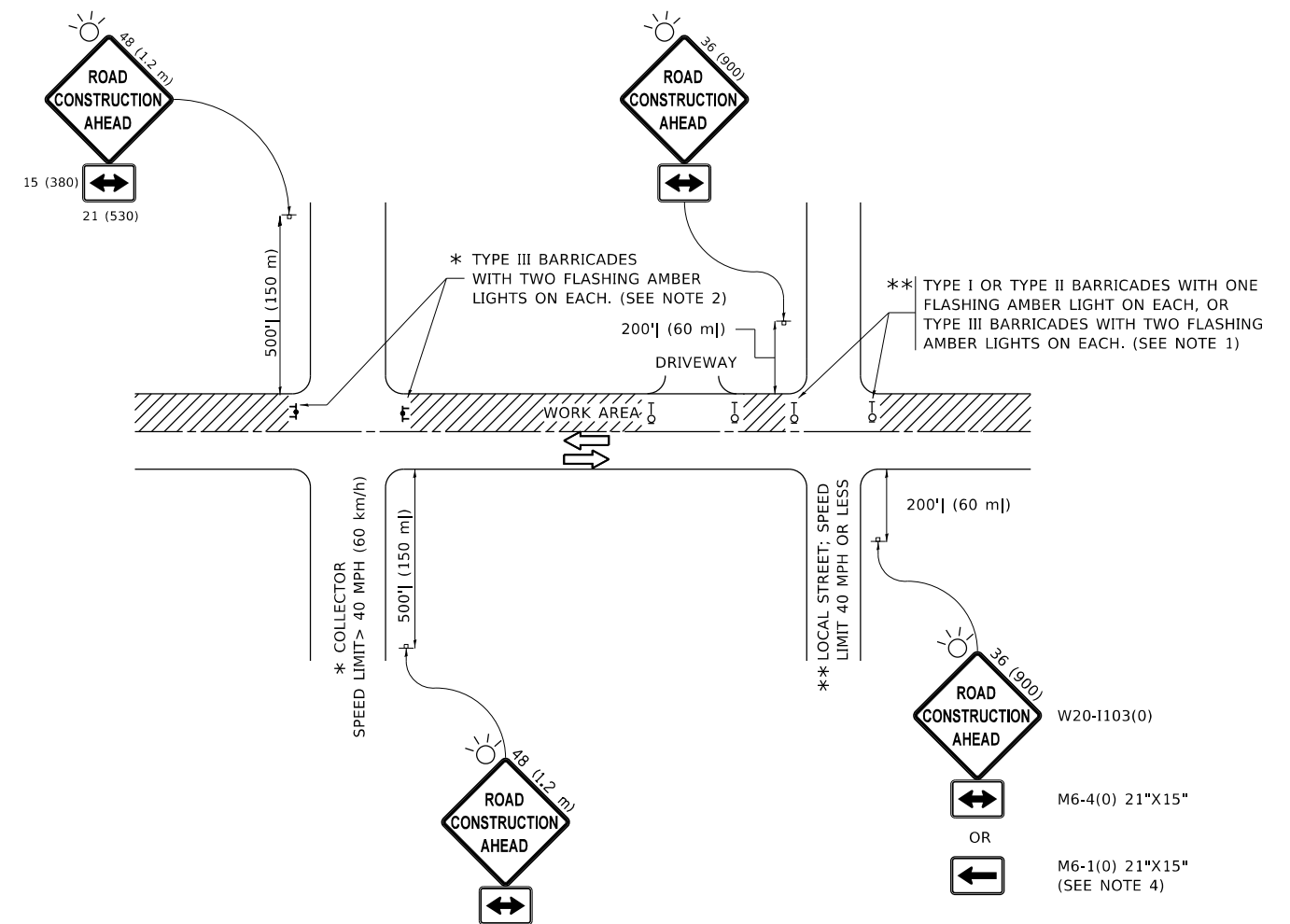
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	DRAWN -	REVISED - A. ABBAS 03-21-97
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
PLOT DATE = 1/31/2020	DATE - 06-13-90	REVISED - R.BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	31
BD400-05 BD32		CONTRACT NO. 62J82		
ILLINOIS FED. AID PROJECT				



NOTES:

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
 - b) BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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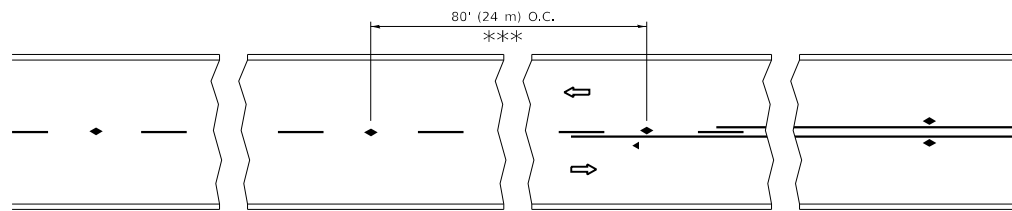
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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - T. RAMMACHER 01-06-00
PLOT DATE = 1/31/2020	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

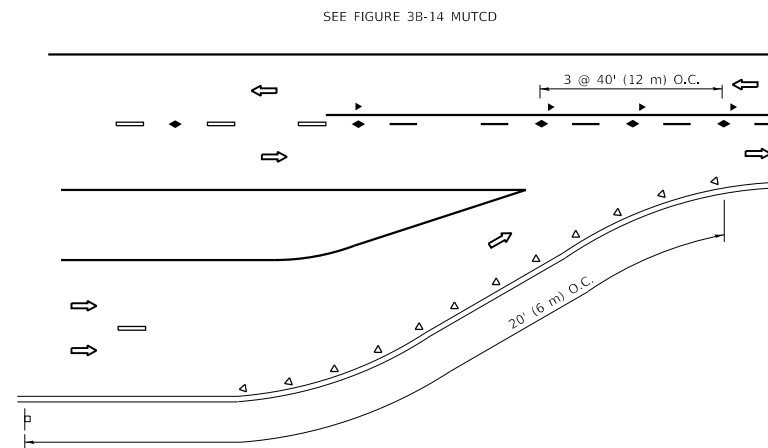
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TC-10			CONTRACT NO. 62J82	
ILLINOIS FED. AID PROJECT				

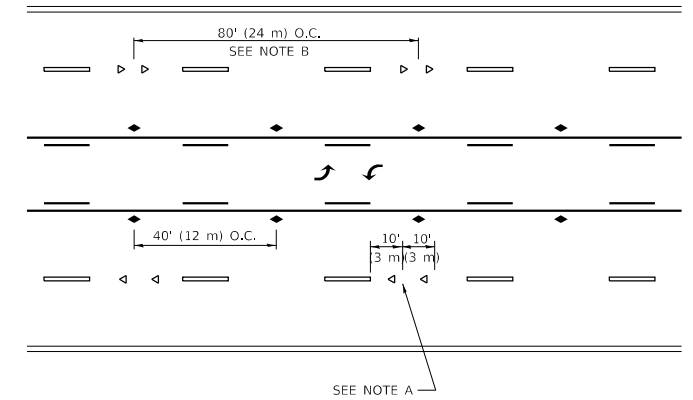


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

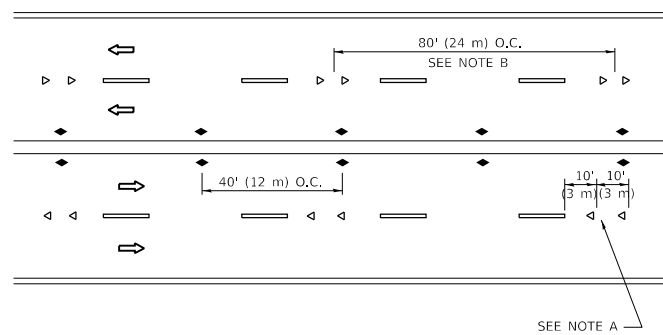
TWO-LANE/TWO-WAY



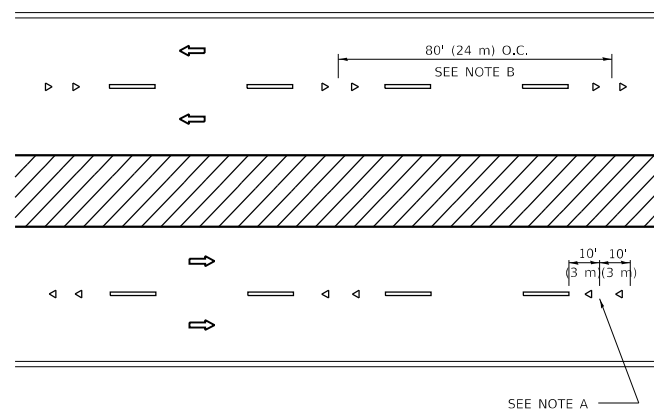
LANE REDUCTION TRANSITION



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

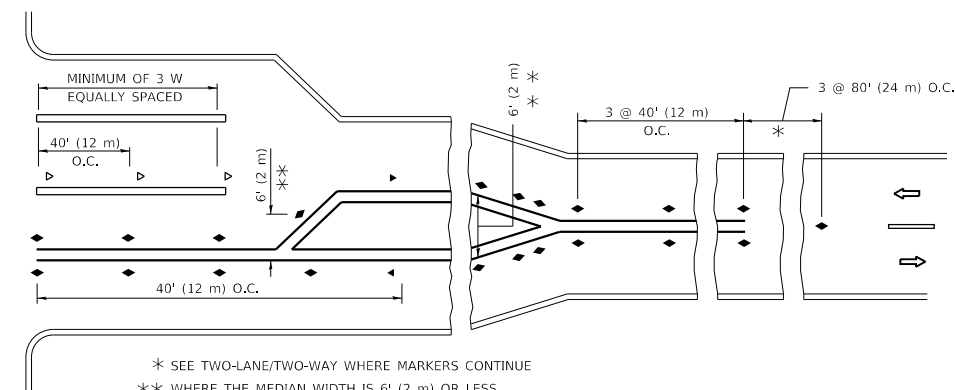
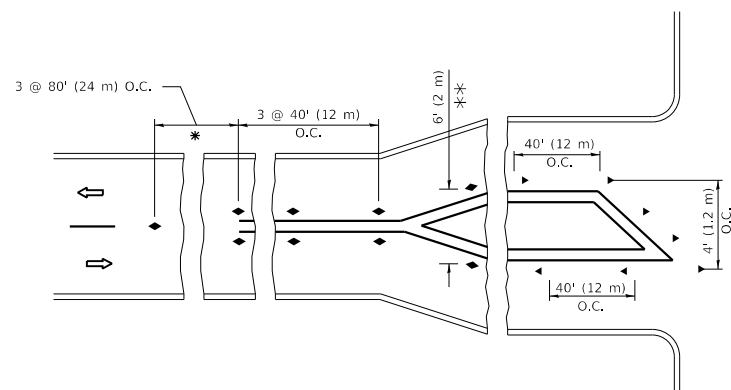
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.



TURN LANES

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

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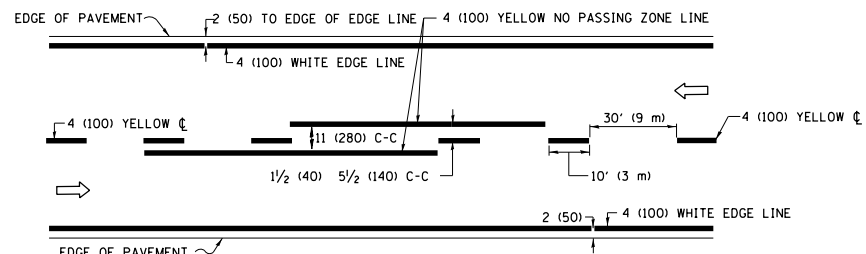
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PLOT DATE = 1/31/2020	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

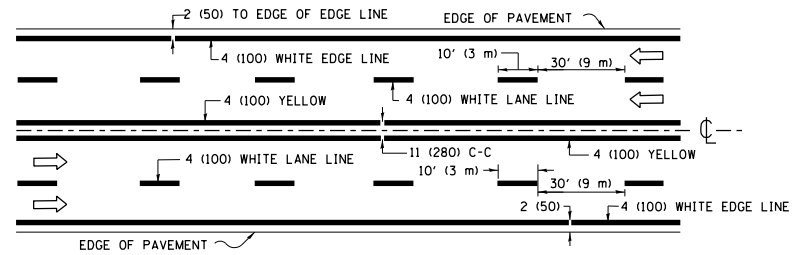
**TYPICAL APPLICATIONS
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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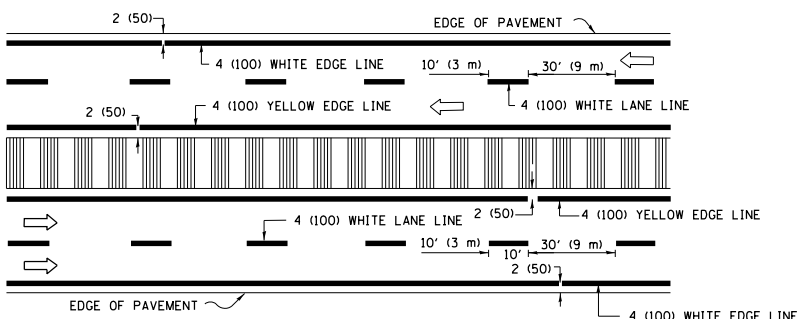
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	33
TC-11		CONTRACT NO. 62J82		
ILLINOIS		FED. AID PROJECT		



2-LANE ROADWAY

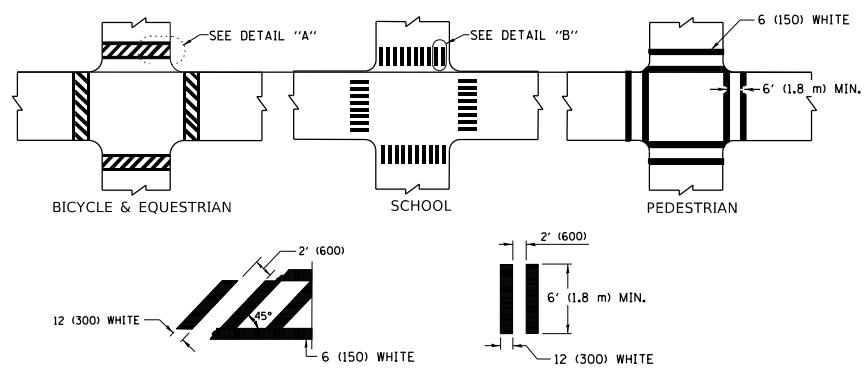


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

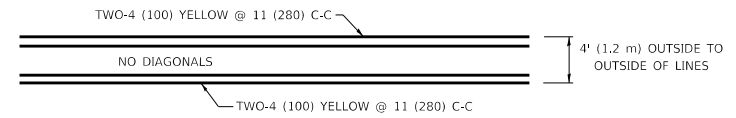


DETAIL "A"

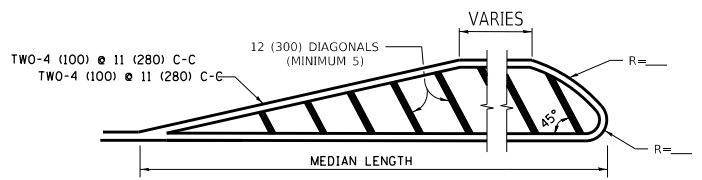
DETAIL "B"

TYPICAL CROSSWALK MARKING

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



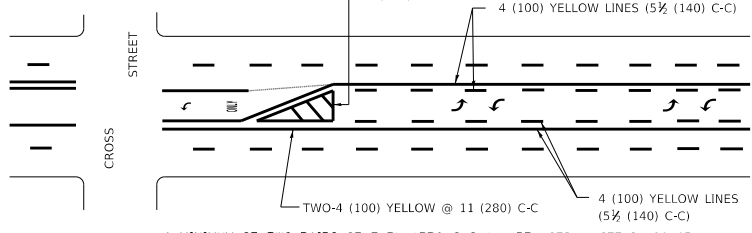
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

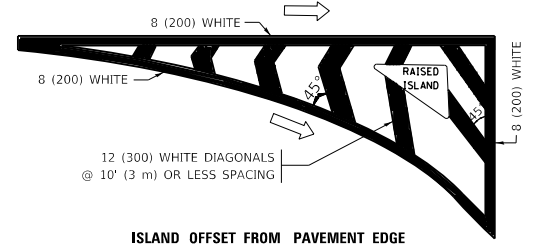
A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.

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

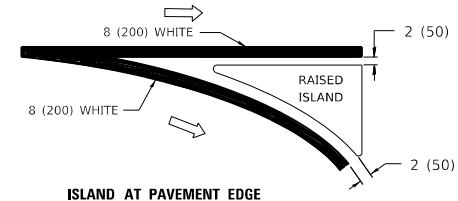
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

TYPICAL TURN LANE MARKING

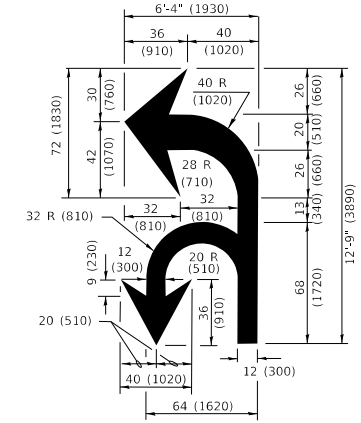


ISLAND OFFSET FROM PAVEMENT EDGE

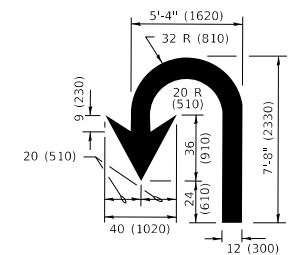


ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES *RR* IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS > 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

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PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - C. JUCIUS 12-21-15
PLOT DATE = 1/31/2020	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
TYPICAL PAVEMENT MARKINGS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	34
TC-13		CONTRACT NO. 62J82		
		ILLINOIS FED. AID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

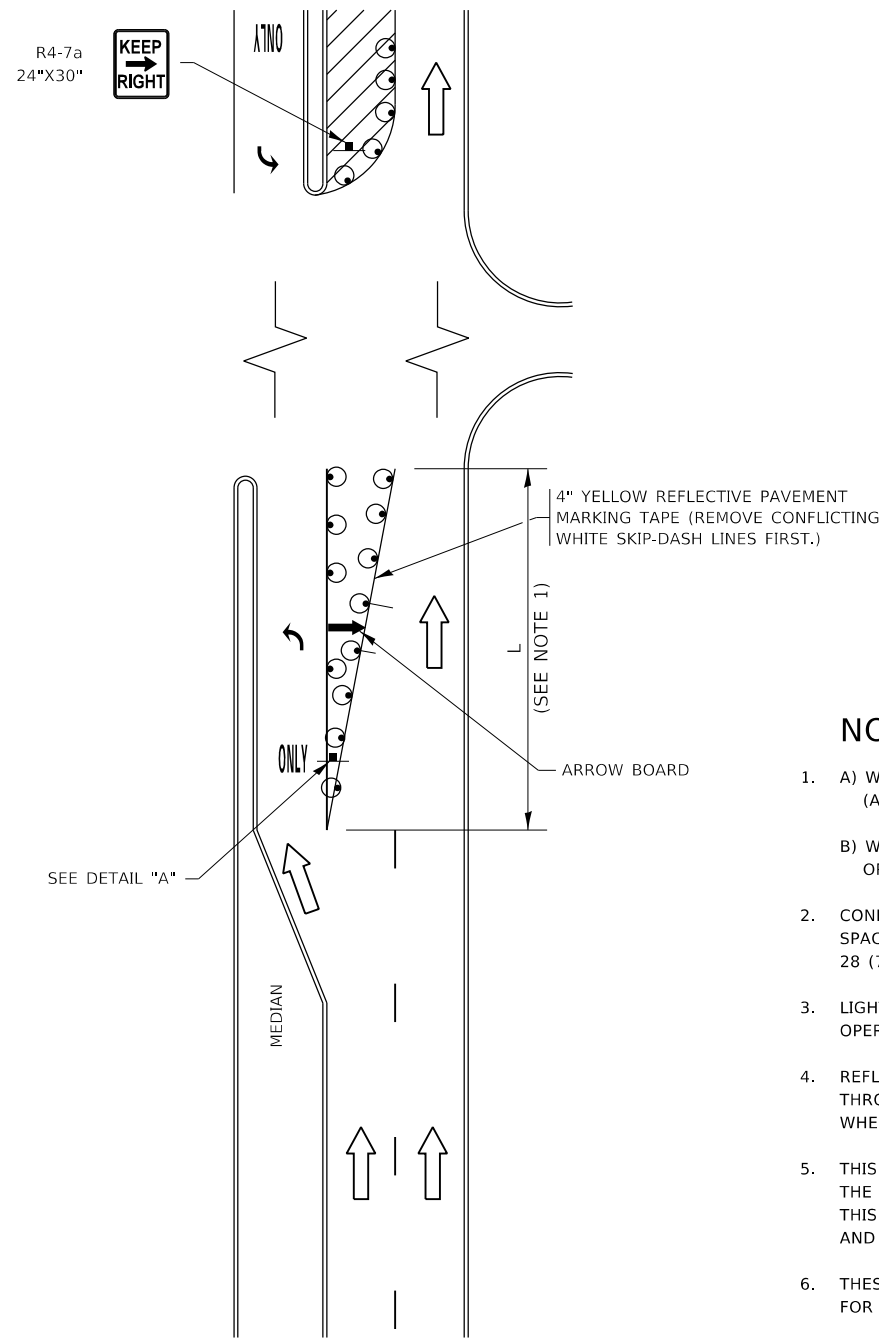


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

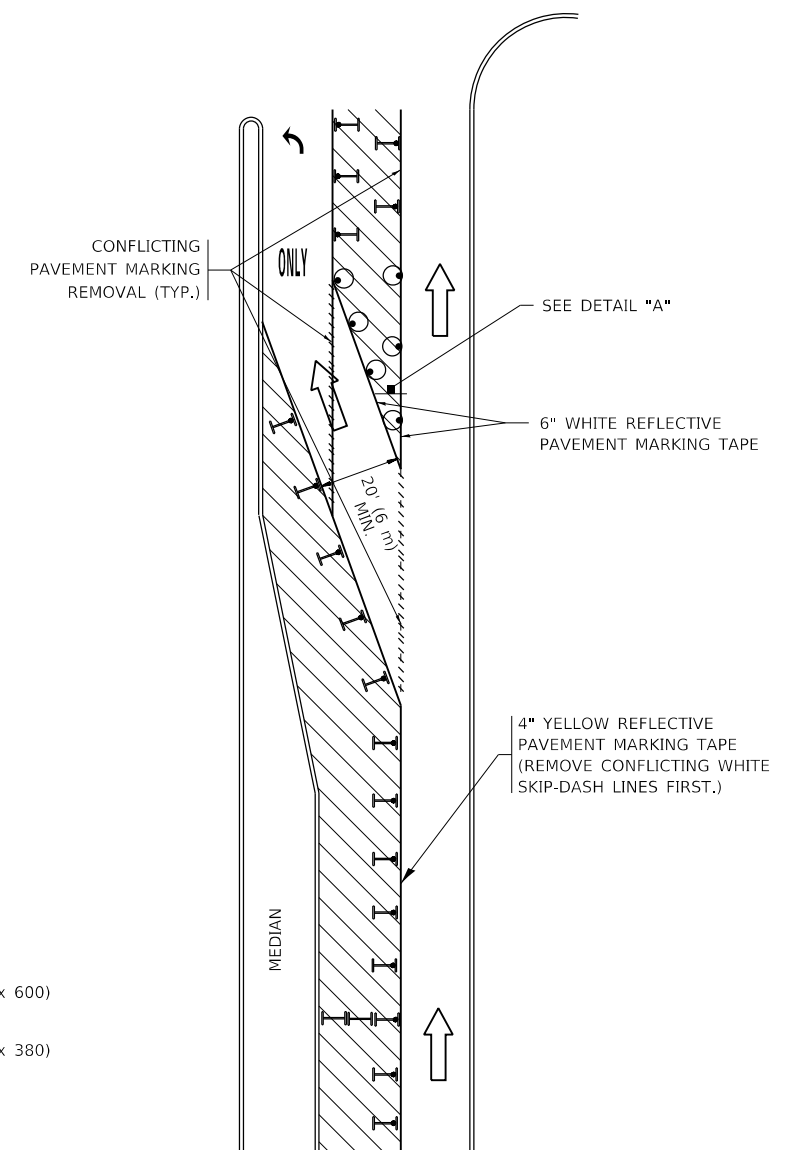
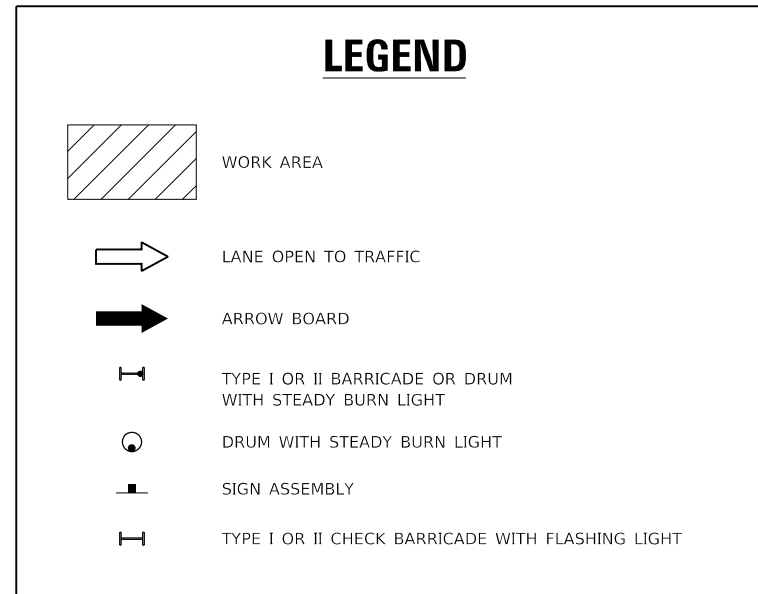
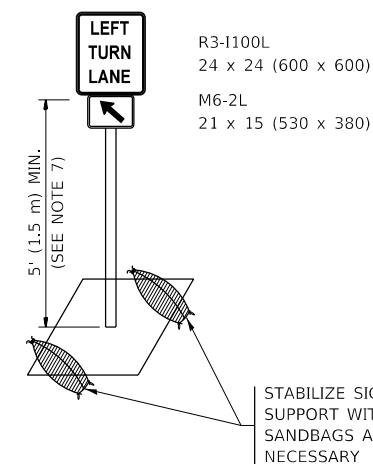


FIGURE 2



NOTES:

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



DETAIL A

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

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PROJECT: 2019-104-R5&SW
OFFICE: CHICAGO
DATE: 1/31/2020

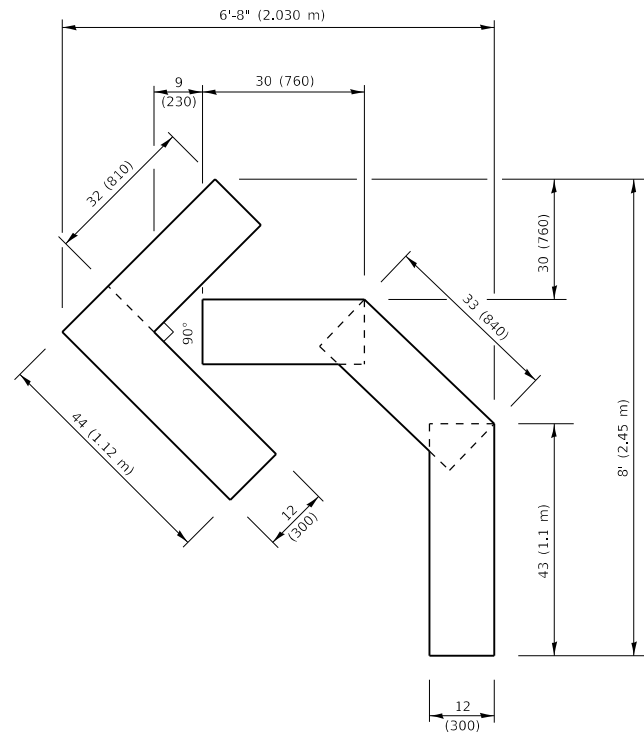
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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100.0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 1/31/2020	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

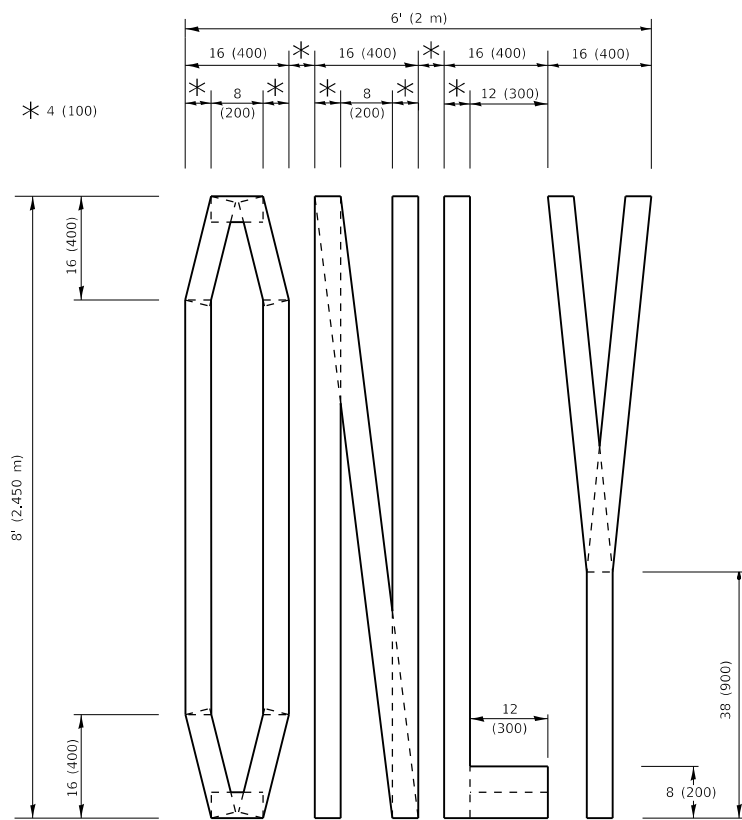
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	35
TC-14		CONTRACT NO. 62J82		
ILLINOIS FED. AID PROJECT				



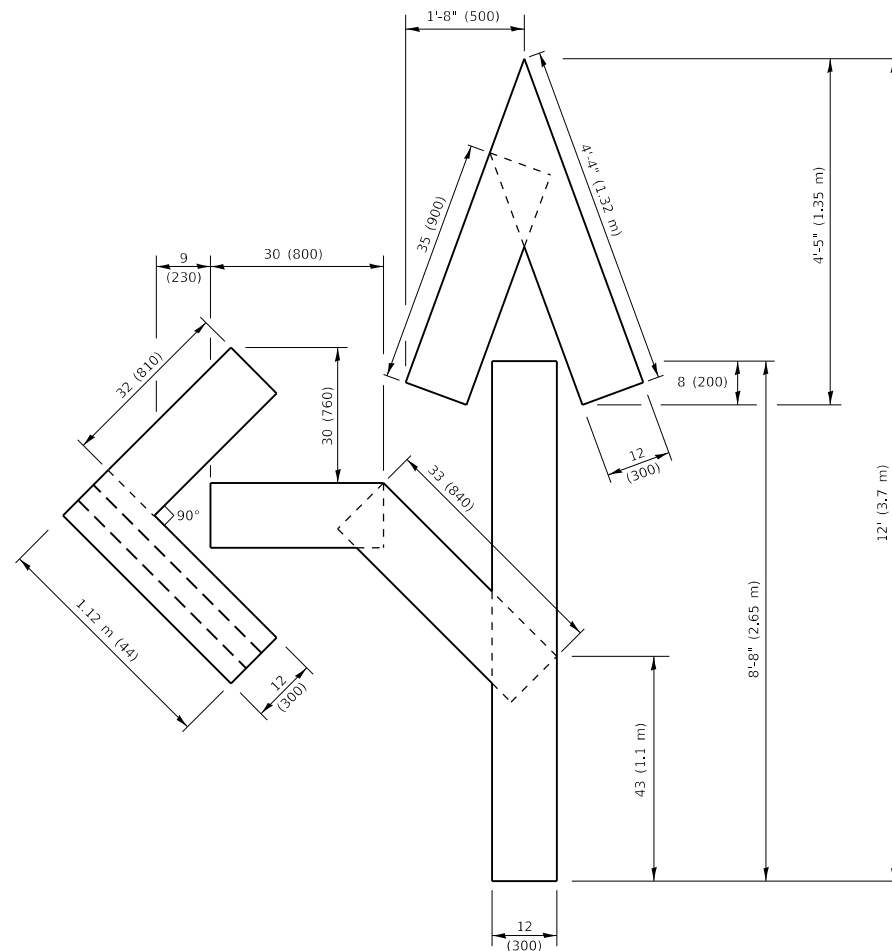
QUANTITY

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)

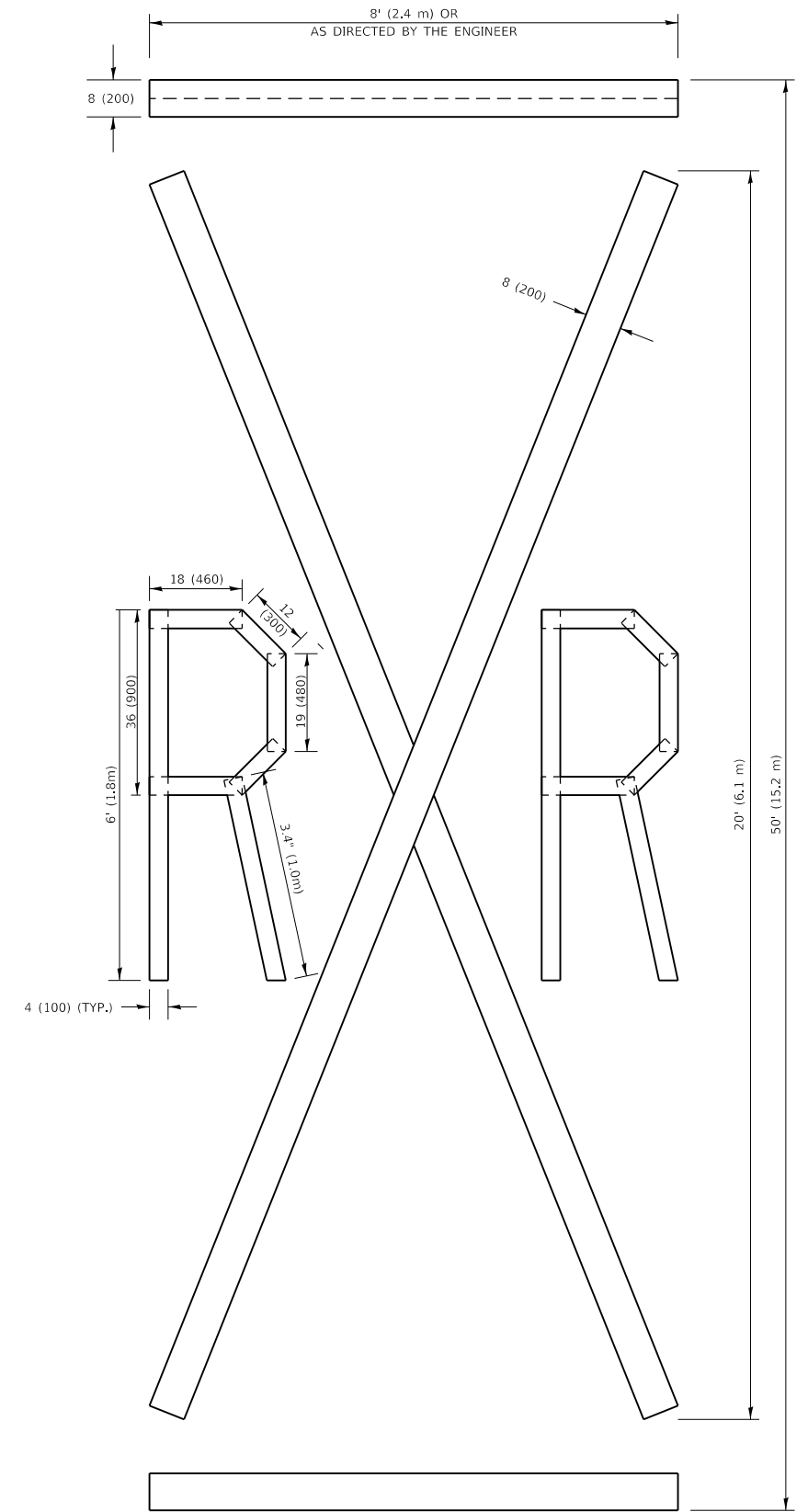


QUANTITY

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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USER NAME = shirani	DESIGNED =	REVISED = T. RAMMACHER 03-02-98
DRAWN =	CHECKED =	REVISED = E. GOMEZ 08-28-00
PLOT SCALE = 100,0000' / in	DATE = 09-18-94	REVISED = E. GOMEZ 08-28-00
PLOT DATE = 1/31/2020	DATE = 09-18-94	REVISED = A. SCHUETZE 09-15-16

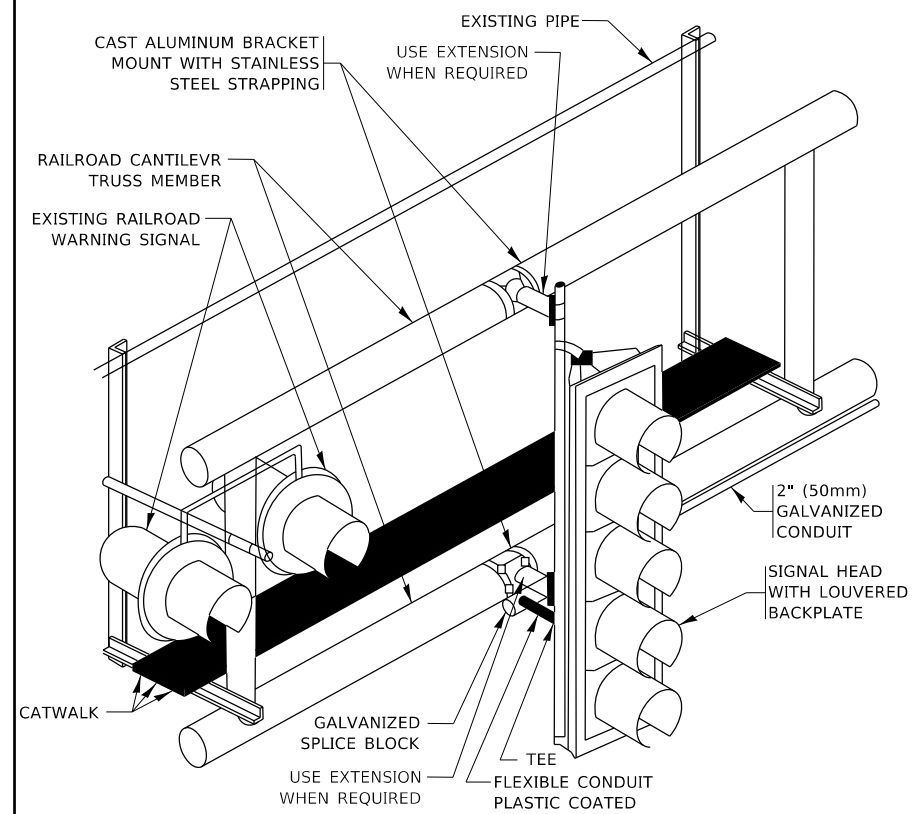
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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.
330	2019-104-R5&SW	COOK	40	36
TC-16		CONTRACT NO. 62J82		
ILLINOIS FED. AID PROJECT				

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 PROJECT: 2019-104-R5G&SW
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 PROJECT: 2019-104-R5G&SW



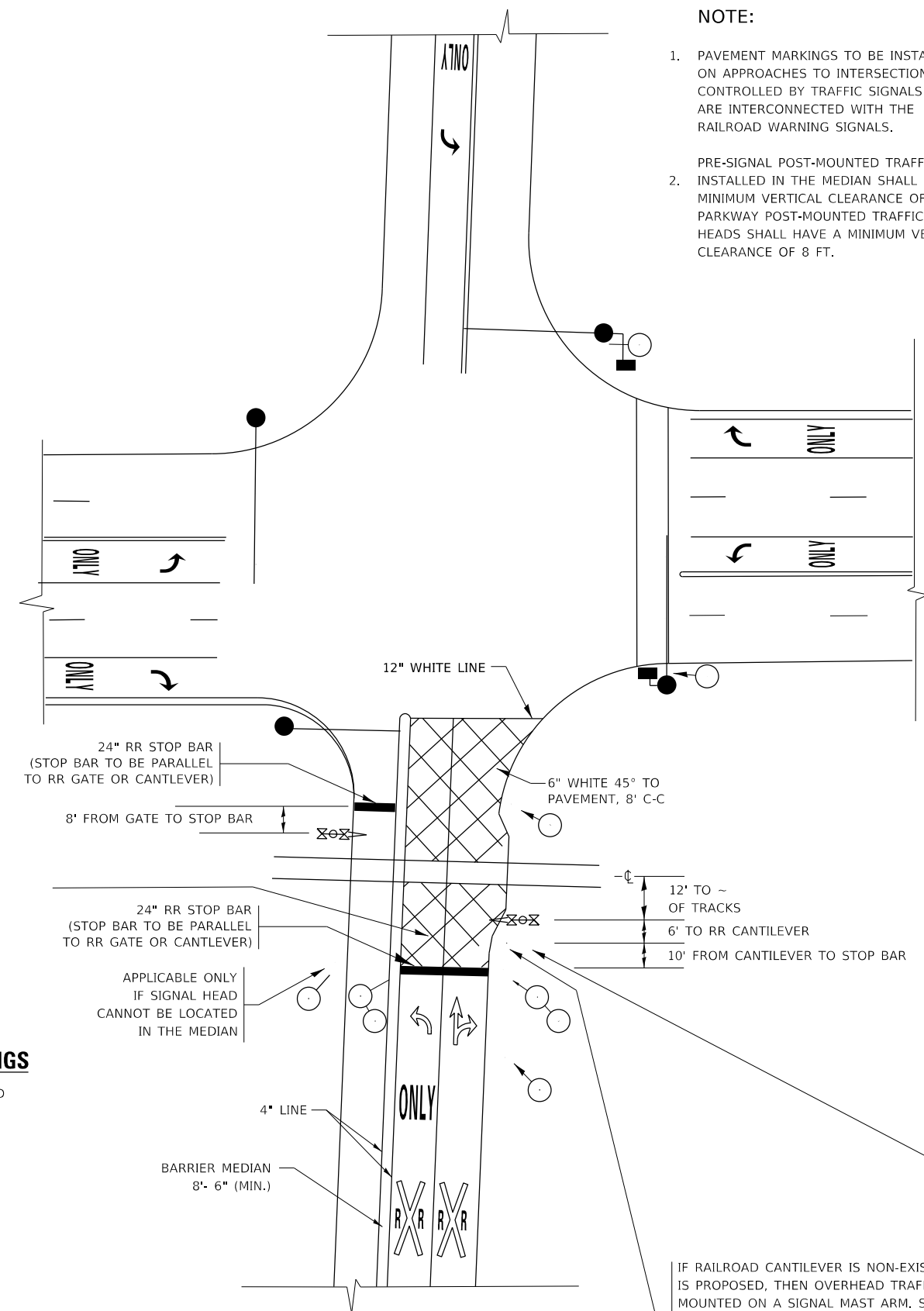
RAILROAD CANTILEVER SIGNAL HEAD MOUNTING
 USE NON-CONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION
 N.T.S.

SIGNING AND PAVEMENT MARKING AT RAILROAD CROSSINGS

SIGNING AND PAVEMENT MARKING TRAFFIC CONTROL STANDARD (TC-23) HAS BEEN DEVELOPED IN CONSULTATION WITH THE ILLINOIS COMMERCE COMMISSION AND THE U.S. DEPARTMENT OF TRANSPORTATION'S GRADE CROSSING SAFETY TASK FORCE. THIS STANDARD PROVIDES INFORMATION ON UPDATES TO THE PAVEMENT MARKING AND SIGNING DETAILS IN ORDER TO INCORPORATE CHANGES ADOPTED IN THE 2009 NATIONAL MANUAL ON UNIFORM TRAFFIC CONTROL DEVICE (MUTCD). THESE NEW DETAILS HAVE BEEN STUDIED AND TESTED BY THE DEPARTMENT AND ACCEPTED BY THE ILLINOIS COMMERCE COMMISSION.

THIS APPLIES TO PROJECTS WHICH INCLUDE RAILROAD INTERCONNECTED TRAFFIC SIGNALS, WITH OR WITHOUT PRE-SIGNALS. THIS STANDARD ALSO APPLIES TO NON-SIGNALIZED INTERSECTIONS THAT ARE WITHIN 81 FEET OF A RAILROAD GRADE CROSSING. THE ILLINOIS SUPPLEMENT TO THE MUTCD SHOULD BE CONSULTED FOR ADDITIONAL INFORMATION ON SIGN REQUIREMENTS AT NON-SIGNALIZED INTERSECTIONS NEAR RAILROAD GRADE CROSSINGS.

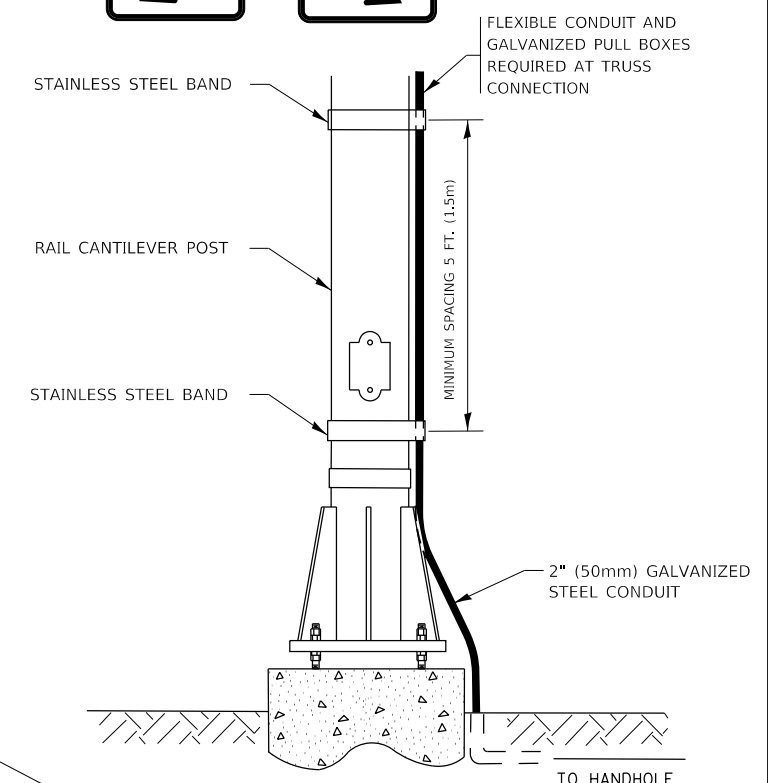
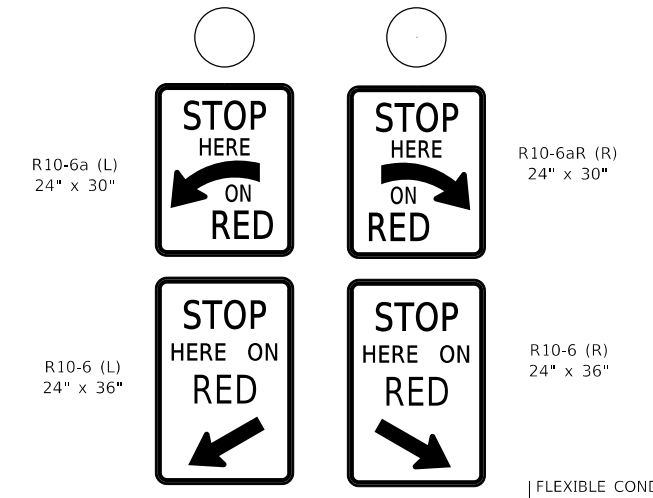
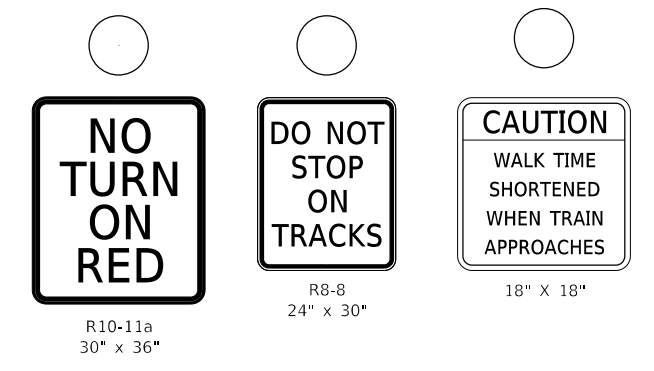
THESE DETAILS WILL BE INCLUDED IN A FUTURE UPDATE TO THE BUREAU OF OPERATIONS TRAFFIC POLICIES AND PROCEDURES MANUAL.



SIGNALIZED INTERSECTION WITH NEAR-SIDE TRAFFIC SIGNAL

NOTE:

- PAVEMENT MARKINGS TO BE INSTALLED ONLY ON APPROACHES TO INTERSECTIONS CONTROLLED BY TRAFFIC SIGNALS WHICH ARE INTERCONNECTED WITH THE RAILROAD WARNING SIGNALS.
- PRE-SIGNAL POST-MOUNTED TRAFFIC SIGNAL HEADS INSTALLED IN THE MEDIAN SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 4.5 FT. PARKWAY POST-MOUNTED TRAFFIC SIGNAL HEADS SHALL HAVE A MINIMUM VERTICAL CLEARANCE OF 8 FT.



SIGNAL CONDUIT CONNECTION TO RAIL CANTILEVER DETAIL

USE NON-CONDUCTIVE SPACERS BETWEEN THE TRAFFIC SIGNAL EQUIPMENT AND THE RAILROAD CANTILEVER TO PREVENT DISSIMILAR METAL CORROSION.

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

IF RAILROAD CANTILEVER IS NON-EXISTANT AND NONE IS PROPOSED, THEN OVERHEAD TRAFFIC SIGNAL TO BE MOUNTED ON A SIGNAL MAST ARM. SIGNAL MAST ARM AND SIGNAL HEADS SHALL BE INSTALLED AS CLOSE AS PRACTICABLE TO THE RAILROAD TRACKS WITHOUT OBSTRUCTING ANY RAILROAD WARNING DEVICES. SIGNAL MAST ARM SHALL BE AT LEAST 12 FT. FROM NEAREST RAIL.

USER NAME = shiraniab	DESIGNED -	REVISED - 02-25-11
	DRAWN -	REVISED - 04-26-12
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A.R. 07-11-16
PLOT DATE = 1/31/2020	DATE -	REVISED - D.G. 8-22-19

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

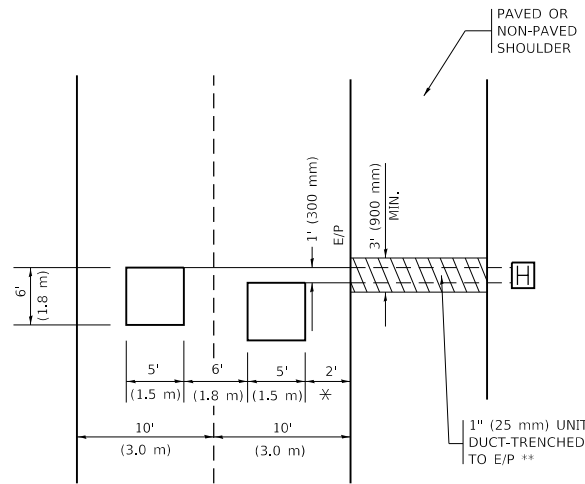
**TYPICAL SUPPLEMENTAL SIGNING AND PAVEMENT MARKING
TREATMENT FOR RAILROAD CROSSINGS**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5G&SW	COOK	40	38
TC-23		CONTRACT NO. 62J82		
ILLINOIS		FED. AID PROJECT		

LOOPS NEXT TO SHOULDERS

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

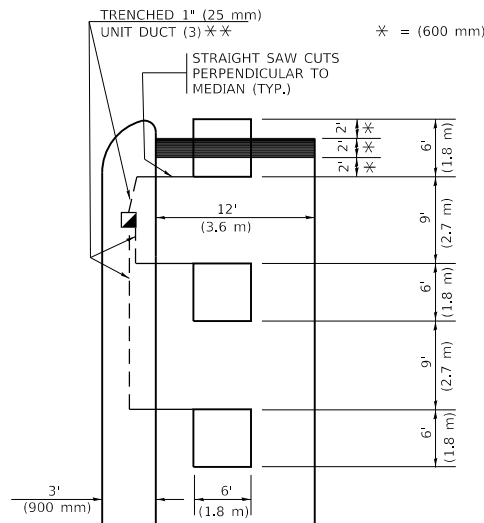


* = (600 mm)

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

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

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

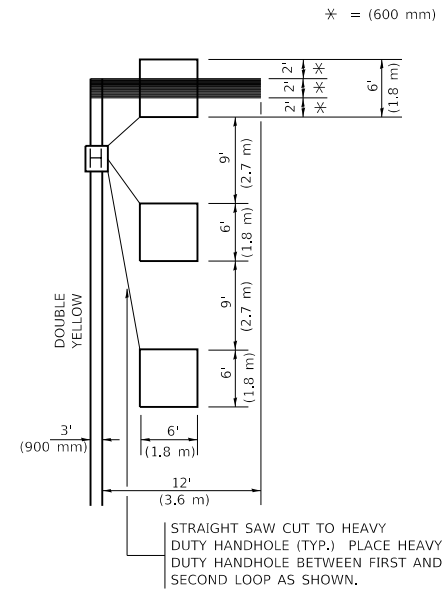


* = (600 mm)

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

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

LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH
(PROTECTED / PERMITTED LEFT TURN PHASING)



* = (600 mm)

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

NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- * EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET (1.8 m)
- * EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- * WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- * WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

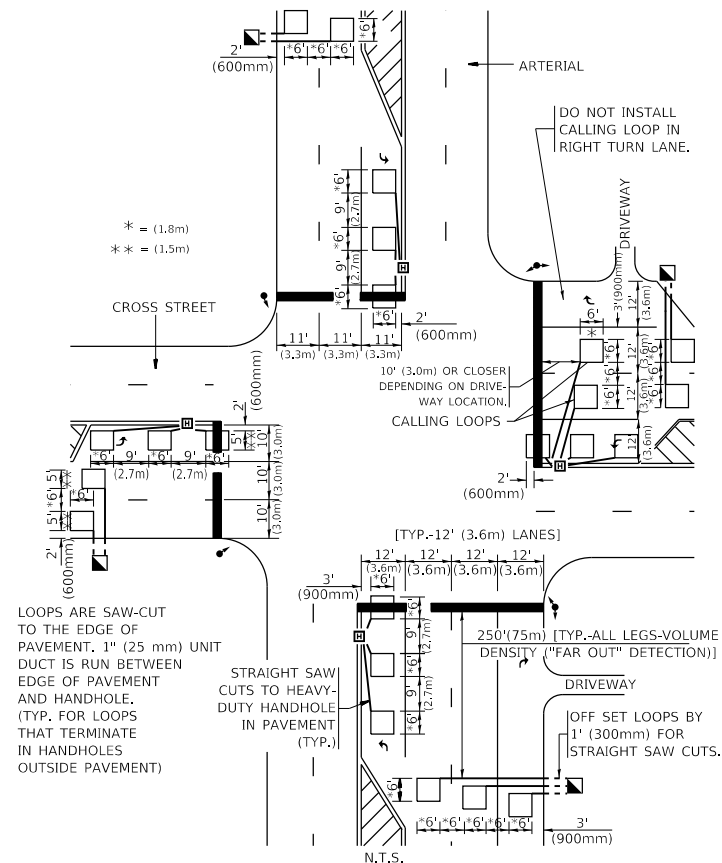
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1 TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

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

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



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

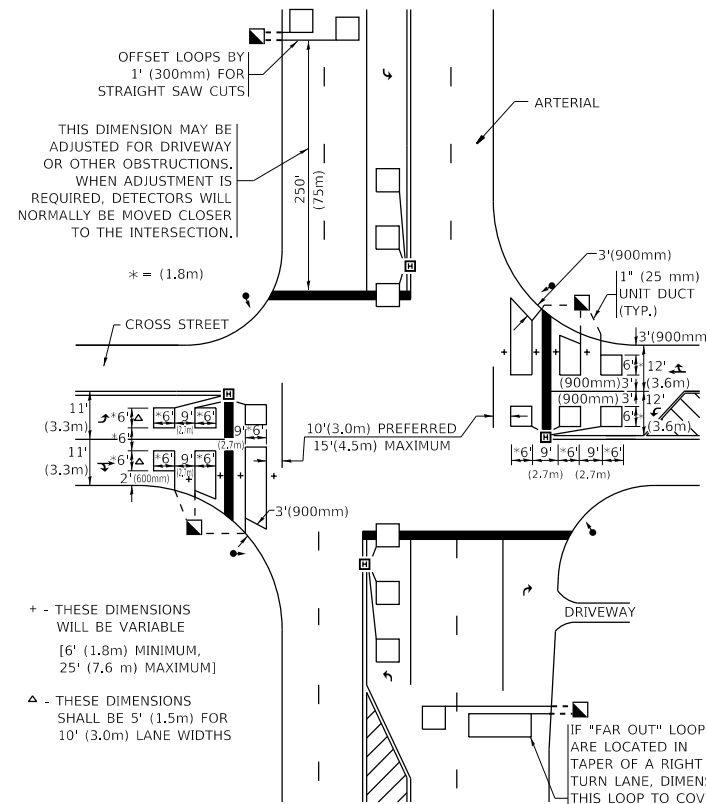
LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

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

[TYP.-12' (3.6m) LANES]
 250' (75m) [TYP.-ALL LEGS-VOLUME DENSITY ("FAR OUT" DETECTION)]
 DRIVEWAY
 OFF SET LOOPS BY 1' (300mm) FOR STRAIGHT SAW CUTS.

DETAIL 1
 N.T.S.

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



OFFSET LOOPS BY 1' (300mm) FOR STRAIGHT SAW CUTS
 THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSER TO THE INTERSECTION.

+ - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]
 Δ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

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

DETAIL 2
 N.T.S.

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

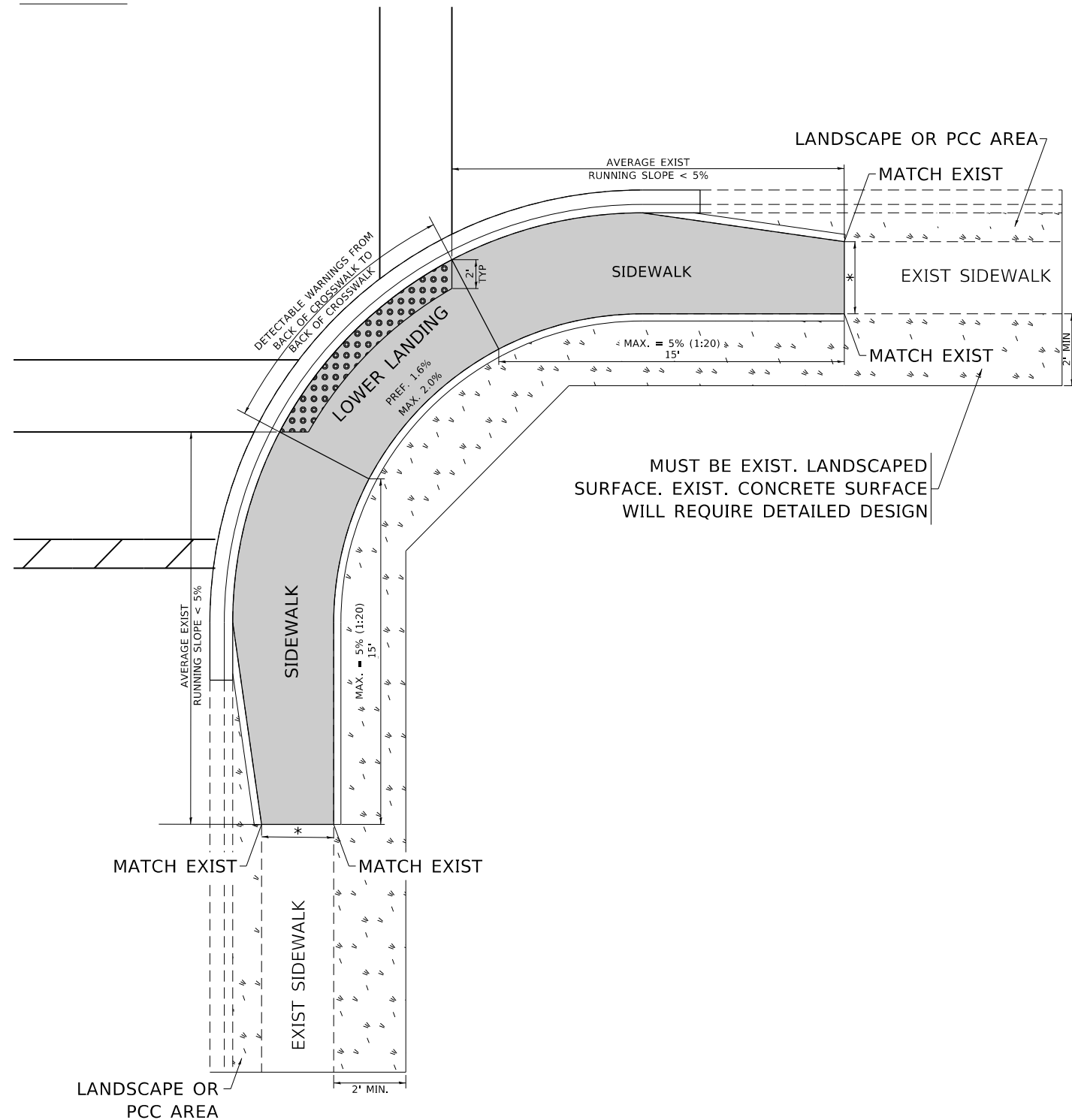
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	39
TS-07		CONTRACT NO. 62J82		

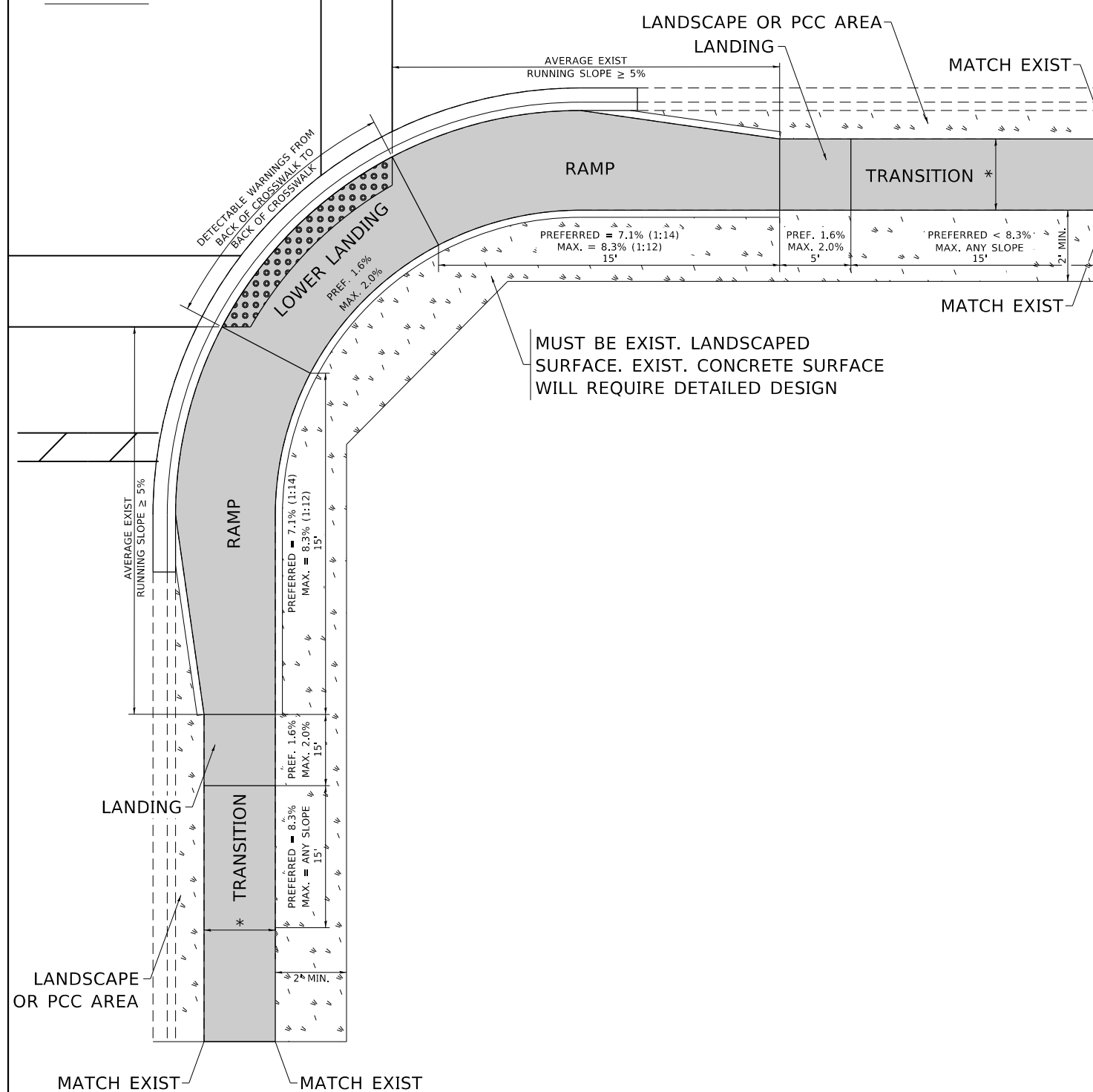
ILLINOIS FED. AID PROJECT

ADA DETAIL FOR PARALLEL CURB RAMPS ADJACENT TO LANDSCAPING

PD-06A



PD-06B



LEGEND

-  EXIST. GRASS
-  PROPOSED SIDEWALK
-  DETECTABLE WARNINGS
-  PROPOSED SIDE CURB

CONSTRUCTION NOTES:

- 1) ALL CROSS SLOPES ARE PREFERRED 1.6% (1:64), MAXIMUM 2% (1:50) EXCEPT WHEN TRANSITIONING TO EXISTING SIDEWALK
- * MATCH EXISTING SIDEWALK WIDTH

MODEL: Default
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USER NAME = shiraniib	DESIGNED -	REVISED -
	DRAWN - R. LEDEZMA	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 1/31/2020	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROJECT DETAIL FOR PARALLEL CURB RAMPS
(PD-06)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
330	2019-104-R5&SW	COOK	40	40
PD-06		CONTRACT NO. 62J82		
ILLINOIS		FED. AID PROJECT		