

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3574	21-00034-00-RS	WILL	41	1
		ILLINOIS	CONTRACT NO. 61J78	

11-17-2023 LETTING ITEM 011

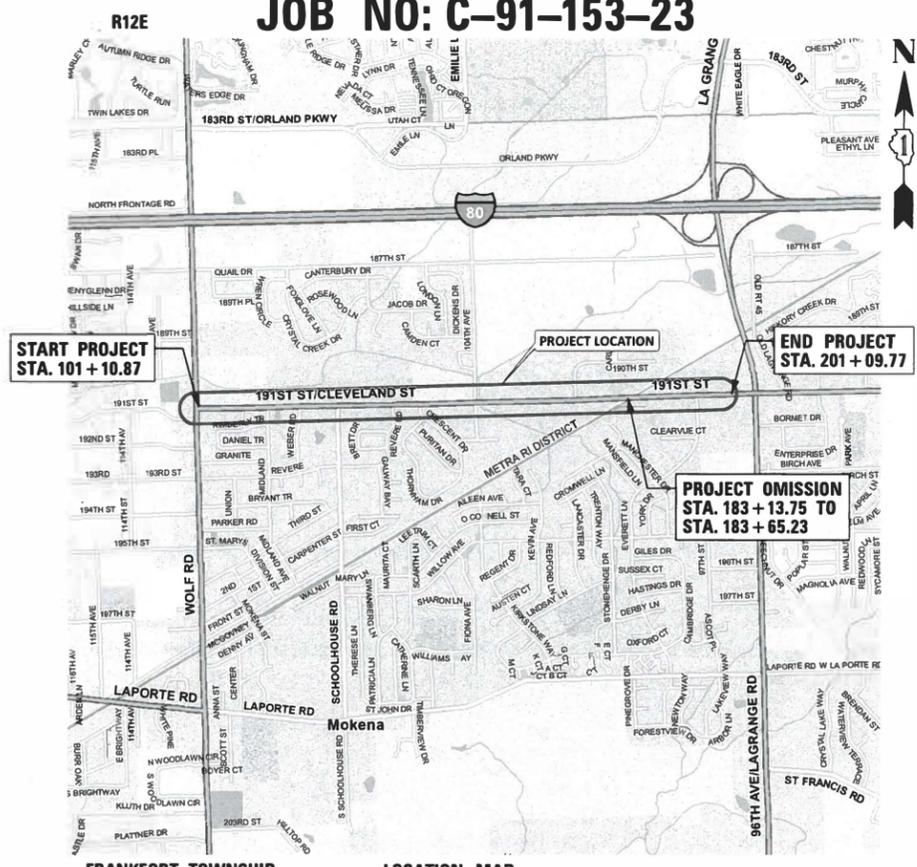
STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

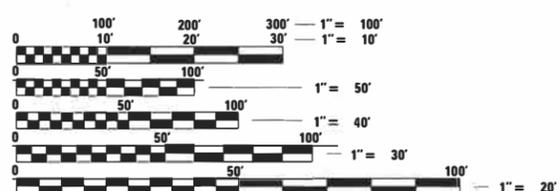
PLANS FOR PROPOSED FEDERAL AID HIGHWAY

FOR INDEX OF SHEETS, SEE SHEET 2
FOR LIST OF APPLICABLE HIGHWAY STANDARDS SEE SHEET 2

**FAU 3754 (191ST STREET)
WOLF ROAD TO US 45 (LAGRANGE ROAD)
RESURFACING
SECTION 21-00034-00-RS
PROJECT NO: M267(569)
VILLAGE OF MOKENA
WILL COUNTY
JOB NO: C-91-153-23**



TRAFFIC DATA (191ST STREET)
FUNCTIONAL CLASSIFICATION: MINOR ARTERIAL
POSTED SPEED = 40 MPH (191ST STREET)
ADT = 14,300 (2019, WOLF RD TO 104TH ST)
ADT = 18,400 (2019, 104TH ST TO US RTE 45)



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

LOCATION MAP
N.T.S.
GROSS LENGTH = 9,998.90 FT. = 1.89 MILE
NET LENGTH = 9,947.42 FT. = 1.88 MILE

ALEX SCHAEFER, PE
ILLINOIS REGISTRATION No. 062-071146
EXPIRATION DATE: 11/2023

CHRISTOPHER B. BURKE ENGINEERING, LTD.
16221 W. 159th Street, Suite 201
Lockport, Illinois 60441
(815) 770-2850
PROFESSIONAL DESIGN FIRM NO. 184-001175
EXPIRATION DATE: 04/30/24

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

APPROVED July 27, 2023

VILLAGE OF MOKENA MAYOR

PASSED August 29, 2023

DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW August 29, 2023

REGIONAL ENGINEER

**PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS**

FEDERAL AID PROGRAM ENGINEER: CARMEN E. RAMOS, P.E., SCHAMBURG, IL

CONTRACT NO. 61J78

INDEX OF SHEETS

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HIGHWAY STANDARDS

000001-08 – STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
424001-11 – PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424011-04 – CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
424016-05 – MID-BLOCK CURB RAMPS FOR SIDEWALKS
424021-06 – DEPRESSED CORNER FOR SIDEWALKS
442201-03 – CLASS C & D PATCHES
604001-05 – FRAME AND LIDS TYPE 1
604091-05 – FRAME AND GRATE TYPE 24
606001-08 – CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701006-05 – OFF-RD OPERATIONS, 2L, 2W, 15’ TO 24” FROM PAVEMENT EDGE
701101-05 – OFF-RD OPERATIONS, MULTILANE, 15’ TO 24” 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 OPER. FOR SPEEDS ≤ 40 MPH
701601-09 – URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON-TRAVERSABLE MEDIAN
701602-10 – URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
701701-10 – URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06 – SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08 – TRAFFIC CONTROL DEVICES

DISTRICT 1 STANDARD DETAILS

BD-08 – FRAMES AND LIDS ADJUSTMENT WITH MILLING
BD-22 – PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
BD-24 – CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
BD-32 – BUTT JOINT AND HMA TAPER DETAILS
TC-10 – TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS
TC-11 – TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)
TC-13 – TYPICAL PAVEMENT MARKINGS
TC-16 – SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
TC-22 – ARTERIAL ROAD INFORMATION SIGN
TS-05 – STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-07 – DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

COMMITMENTS

NONE

GENERAL NOTES

UTILITIES

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL “JULIE” AT 8-1-1 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS AND CABLE TELEVISION FACILITIES (48 HOURS NOTIFICATIONS IS REQUIRED).
- THE CONTRACTOR SHALL CONTACT IDOT’S BUREAU OF MATERIALS (PHONE 847-705-4337) AT LEAST 24 HOURS BEFORE PLACING HOT MIX ASPHALT OR PORTLAND CEMENT CONCRETE.

WATER, STORM SEWER AND SANITARY SEWER

- THE CONTRACTOR SHALL NOT OPEN OR SHUT ANY WATER VALVES OR FIRE HYDRANTS. CONTACT THE VILLAGE OF MOKENA PUBLIC WORKS DEPARTMENT (TEL. (708) 479-3900) FOR THEM TO TURN VALVES OR OPERATE HYDRANTS. UNAUTHORIZED USE SHALL SUBJECT THE OFFENDER TO ARREST AND PROSECUTION.

MISCELLANEOUS

- LIMITS OF PATCHING, CURB AND GUTTER REMOVAL AND REPLACEMENT, SIDEWALK REMOVAL AND REPLACEMENT, DRIVEWAY REMOVAL AND REPLACEMENT AND STRUCTURES TO BE ADJUSTED WILL BE DETERMINED BY THE ENGINEER IN THE FIELD.
- DETECTABLE WARNINGS SHALL BE INSTALLED AT ALL INTERSECTING STREETS IN ACCORDANCE WITH IDOT HIGHWAY STANDARDS AND AS DIRECTED BY THE ENGINEER.
- RELOCATING EXISTING SIGNS: EXISTING SIGNS WHICH ARE IN CONFLICT WITH PROPOSED IMPROVEMENTS SHALL BE REMOVED AND REINSTALLED UPON COMPLETION OF CONFLICTING IMPROVEMENTS IN ACCORDANCE WITH THE “MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES” AND THE “STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION”. STOP SIGNS, SPEED LIMIT SIGNS, AND STREET NAME SIGNS SHALL BE UP AND VISIBLE AT ALL TIMES.
- ALL UNDERGROUND, DRIVEWAY, CONCRETE, AND LANDSCAPE RESTORATION WORK IS TO BE COMPLETED BEFORE THE SURFACE COURSE CAN BE INSTALLED.
- FRESH OIL SIGNS SHALL BE POSTED AT BOTH ENDS OF THE ROADWAY AND ALL SIDE STREETS AS DIRECTED BY THE ENGINEER. CONSTRUCTION AHEAD SIGNS SHALL BE PLACED AT ALL SIDE STREETS AND BOTH ENDS OF THE ROADWAY WHILE CONSTRUCTION IS IN PROGRESS.
- NO CONSTRUCTION SHALL BEGIN UNTIL ALL PROPER TEMPORARY SIGNS AND BARRICADES HAVE BEEN INSTALLED.
- SOIL EROSION PROTECTION SHALL BE IN ACCORDANCE WITH IEPA STANDARDS AND SPECIFICATIONS FOR SOIL EROSION AND SEDIMENT CONTROL. ALL DISTURBED AREAS (NOT IMPERVIOUS IN NATURE) SHALL BE FINE GRADED, TOPSOIL RESTORED (MINIMUM 4 INCHES) AND SEED & BLANKET APPLIED UNLESS OTHERWISE SPECIFIED ON THE PLANS.
- THE CONTRACTOR SHALL KEEP ONE LANE IN EACH DIRECTION OPEN TO TRAFFIC AT ALL TIMES DURING CONSTRUCTION. THE CONTRACTOR SHALL COMPLETE ALL MILLING OPERATIONS BEFORE INSTALLING ANY HOT-MIX ASPHALT PAVEMENT.
- AT THE END OF EACH DAY, IT SHALL BE THE CONTRACTOR’S RESPONSIBILITY TO ASSURE THAT ALL STREETS ADJACENT TO THE PROJECT ARE FREE OF ALL CONSTRUCTION RELATED DEBRIS INCLUDING DIRT, STONE, NAILS, ETC. THE WORK SHALL BE DONE TO THE SATISFACTION OF THE ENGINEER.
- IT IS THE CONTRACTOR’S SOLE RESPONSIBILITY TO COORDINATE WITH THE METRA RAILROAD WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD ROW. THE CONTRACTOR SHALL RETAIN FLAGMEN EMPLOYED AND DESIGNATED BY THE METRA RAILROAD TO MONITOR ON-COMING TRAIN TRAFFIC, AND ADVISE CONTRACTOR PERSONNEL WHEN ACTIVITY ON OR NEAR THE RAILROAD RIGHT-OF-WAY MAY PROCEED. THIS ITEM WILL BE PAID FOR ACCORDING TO ARTICLE 107.12 AND WILL BE REIMBURSED ACCORDING TO ARTICLE 109.05.
- THE CONTRACTOR SHALL PROVIDE AND MAINTAIN A CONCRETE WASHOUT FACILITY FOR THE DURATION OF CONSTRUCTION IN ACCORDANCE WITH THE DETAIL ON THE PLANS. AT THE END OF CONSTRUCTION, THE CONCRETE WASHOUT FACILITY SHALL BE REMOVED FROM THE SITE.
- THE CONTRACTOR SHALL TAKE PRECAUTION BY PRESERVING EXISTING TREES WITHIN THE RIGHT OF WAY. IF ANY DAMAGE OCCURS, TREES SHALL BE REPAIRED OR REPLACED IN KIND PER ARTICLE 201.07.
- ALL PROPOSED PAVEMENT MARKINGS SHALL BE GROOVED INTO THE PAVEMENT IN ACCORDANCE WITH ARTICLE 780.05.
- 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.
- THE ENGINEER SHALL CONTACT PATRICE HARRIS, IDOT’S AREA TRAFFIC FIELD TECH, VIA E-MAIL AT PATRICE.HARRIS@ILLINOIS.GOV, OR AT (815)485-6475 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

FILE NAME = N:\Mokena\210365\Civil\GEN_210365.sht	USER NAME = aschaefer	DESIGNED - GR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	INDEX OF SHEETS, HIGHWAY STANDARDS, D1 STANDARDS, COMMITMENTS & GENERAL NOTES	MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = 28'	CHECKED - AJS	REVISED -			3754	21-00034-00-RS	WILL	41	2
Default	PLOT DATE = 8/31/2023	DATE -	REVISED -	SCALE: N.T.S.	SHEET 1 OF 1 SHEETS	STA. TO STA.	CONTRACT NO. 61J78		ILLINOIS FED. AID PROJECT	

FUNDING SOURCE					STP	
CONSTRUCTION TYPE CODE					80% FED	20% LOCAL
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0005	0042	
				ROADWAY	TRAINEES	
20101400	NITROGEN FERTILIZER NUTRIENT	POUND	45	45		
20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	45	45		
20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	45	45		
20200100	EARTH EXCAVATION	CU YD	150	150		
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	60	60		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	2420	2420		
25000110	SEEDING, CLASS 1A	ACRE	0.5	0.5		
25100630	EROSION CONTROL BLANKET	SQ YD	2420	2420		
28000510	INLET FILTERS	EACH	156	156		
30300001	AGGREGATE SUBGRADE IMPROVEMENT	CU YD	60	60		
35101600	AGGREGATE BASE COURSE, TYPE B 4"	SQ YD	825	825		
40201000	AGGREGATE FOR TEMPORARY ACCESS	TON	25	25		
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	51905	51905		
40600370	LONGITUDINAL JOINT SEALANT	FOOT	32000	32000		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	521	521		
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	3172	3172		
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	8613	8613		
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	6880	6880		

~ DENOTES SPECIALTY ITEM

FILE NAME = N:\Mokene\210365\Civil\500_01_210365.dwg	USER NAME = oschoafor	DESIGNED - OR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	MUN. RTE. 3754	SECTION 21-00034-00-RS	COUNTY WILL	TOTAL SHEETS 41	SHEET NO. 3		
FL07 SCALE = 2"	CHECKED - AJS	REVISED -	SCALE: N.T.S.			SHEET 1	OF 5 SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT		
DATE = 8/31/2023	DATE -	REVISED -										

FUNDING SOURCE					STP	
CONSTRUCTION TYPE CODE					80% FED	20% LOCAL
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0005	0042	
				ROADWAY	TRAINEES	
42400800	DETECTABLE WARNINGS	SQ FT	450	450		
44000100	PAVEMENT REMOVAL	SQ YD	95	95		
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	76896	76896		
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	4800	4800		
44000600	SIDEWALK REMOVAL	SQ FT	6280	6280		
44201785	CLASS D PATCHES, TYPE I, 12 INCH	SQ YD	385	385		
44201789	CLASS D PATCHES, TYPE II, 12 INCH	SQ YD	580	580		
44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	575	575		
44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	200	200		
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	3	3		
60262700	INLETS TO BE RECONSTRUCTED	EACH	3	3		
60266600	VALVE BOXES TO BE ADJUSTED	EACH	8	8		
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	155	155		
60404950	FRAMES AND GRATES, TYPE 24	EACH	8	8		
60406000	FRAMES AND LIDS, TYPE 1, OPEN LID	EACH	3	3		
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	5	5		
60600605	CONCRETE CURB, TYPE B	FOOT	480	480		
67100100	MOBILIZATION	L SUM	1	1		

~ DENOTES SPECIALTY ITEM

FILE NAME =	USER NAME = eschofer	DESIGNED - GR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES			MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\Makena\210365\Civil\500.02.210365.dwg		DRAWN - ELA	REVISED -					3754	21-00034-00-RS	WILL	41	4
Default	PLOT SCALE = 20'	CHECKED - AJS	REVISED -		SCALE: N.T.S.	SHEET 2	OF 5	SHEETS	STA.	TO STA.	ILLINOIS FED. AID PROJECT	
	PLOT DATE = 8/31/2023	DATE -	REVISED -		CONTRACT NO. 61J78							

FUNDING SOURCE					STP	
					80% FED 20% LOCAL	
CONSTRUCTION TYPE CODE					0005	0042
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY	TRAINEES	
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1		
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1		
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1		
70107025	CHANGEABLE MESSAGE SIGN	CAL DA	370	370		
70300100	SHORT TERM PAVEMENT MARKING	FOOT	5000	5000		
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	1667	1667		
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SQ FT	2460	2460		
70300221	TEMPORARY PAVEMENT MARKING - LINE 4"- PAINT	FOOT	86060	86060		
70300241	TEMPORARY PAVEMENT MARKING - LINE 6"- PAINT	FOOT	10040	10040		
70300261	TEMPORARY PAVEMENT MARKING - LINE 12"- PAINT	FOOT	5000	5000		
70300281	TEMPORARY PAVEMENT MARKING - LINE 24"- PAINT	FOOT	1310	1310		
~ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	1230	1230		
~ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	43030	43030		
~ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	5020	5020		
~ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2500	2500		
~ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	655	655		
~ 78008200	POLYUREA PAVEMENT MARKING TYPE I - LETTERS AND SYMBOLS	SQ FT	32	32		

~ DENOTES SPECIALTY ITEM

FILE NAME =	USER NAME = aschafer	DESIGNED - GR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
N:\Makena\210365\Civil\500_03_210365.aht	PLOT SCALE = 20'	DRAWN - ELA	REVISED -			3754	21-00034-00-RS	WILL	41	5
Default	PLOT DATE = 8/31/2023	CHECKED - AJS	REVISED -			SCALE: N.T.S. SHEET 3 OF 5 SHEETS STA. TO STA.		CONTRACT NO. 61J78		ILLINOIS FED. AID PROJECT

FUNDING SOURCE					STP	
CONSTRUCTION TYPE CODE					80% FED 20% LOCAL	
	CODE NO.	ITEM	UNIT	TOTAL QUANTITY	0005 ROADWAY	0042 TRAINEES
~	78008210	POLYUREA PAVEMENT MARKING TYPE I - LINE 4"	FOOT	101	101	
~	78008230	POLYUREA PAVEMENT MARKING TYPE I - LINE 6"	FOOT	23	23	
~	78008270	POLYUREA PAVEMENT MARKING TYPE I - LINE 24"	FOOT	33	33	
~	78011000	GROOVING FOR RECESSED PAVEMENT MARKING, LETTERS AND SYMBOLS	SQ FT	1262	1262	
~	78011025	GROOVING FOR RECESSED PAVEMENT MARKING 5"	FOOT	43131	43131	
~	78011035	GROOVING FOR RECESSED PAVEMENT MARKING 7"	FOOT	5043	5043	
~	78011065	GROOVING FOR RECESSED PAVEMENT MARKING 13"	FOOT	2500	2500	
~	78011125	GROOVING FOR RECESSED PAVEMENT MARKING 25"	FOOT	688	688	
	78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1050	1050	
	78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	150	150	
	X6026050	SANITARY MANHOLES TO BE ADJUSTED	EACH	29	29	
	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	20	20	
	X6060052	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 (SPECIAL)	FOOT	4800	4800	
~	X7810300	RECESSED REFLECTIVE PAVEMENT MARKER	EACH	1050	1050	
~	X8860105	DETECTOR LOOP REPLACEMENT	FOOT	2030	2030	
	XX006947	HOT-MIX ASPHALT DRIVEWAY REMOVAL AND REPLACEMENT	SQ YD	75	75	
	Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1	
	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	104	104	

~ DENOTES SPECIALTY ITEM

FILE NAME = N:\Mekene\210365\Civil\500_04_210365.sht	USER NAME = aschofer	DESIGNED - GR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES				MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
Default	PLOT SCALE = 20'	DRAWN - ELA	REVISED -		SCALE: N.T.S.	SHEET 4	OF 5	SHEETS	STA.	TO STA.	3754	21-00034-00-RS	WILL	41	6
	PLOT DATE = 9/19/2023	CHECKED - AJS	REVISED -		CONTRACT NO. 61J78										
		DATE -	REVISED -		ILLINOIS FED. AID PROJECT										

FUNDING SOURCE					STP	
					80% FED 20% LOCAL	
CONSTRUCTION TYPE CODE					0005	0042
					CODE NO.	ITEM
	Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1	
	Z0076600	TRAINEES	HOUR	500		500
	Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500		500

~ DENOTES SPECIALTY ITEM

FILE NAME = N:\Mokemo\210365\Civil\500.05.210365.sht	USER NAME = aschofer	DESIGNED - GR	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	SUMMARY OF QUANTITIES	MUN. RTE. 3754	SECTION 21-00034-00-R5	COUNTY WILL	TOTAL SHEETS 41	SHEET NO. 7		
Default	PLDT SCALE = 20'	CHECKED - AJS	REVISED -			SCALE: N.T.S.	SHEET 5 OF 5 SHEETS	STA.	TO STA.	[ILLINOIS] FED. AID PROJECT		
	PLDT DATE = 6/31/2023	DATE -	REVISED -									

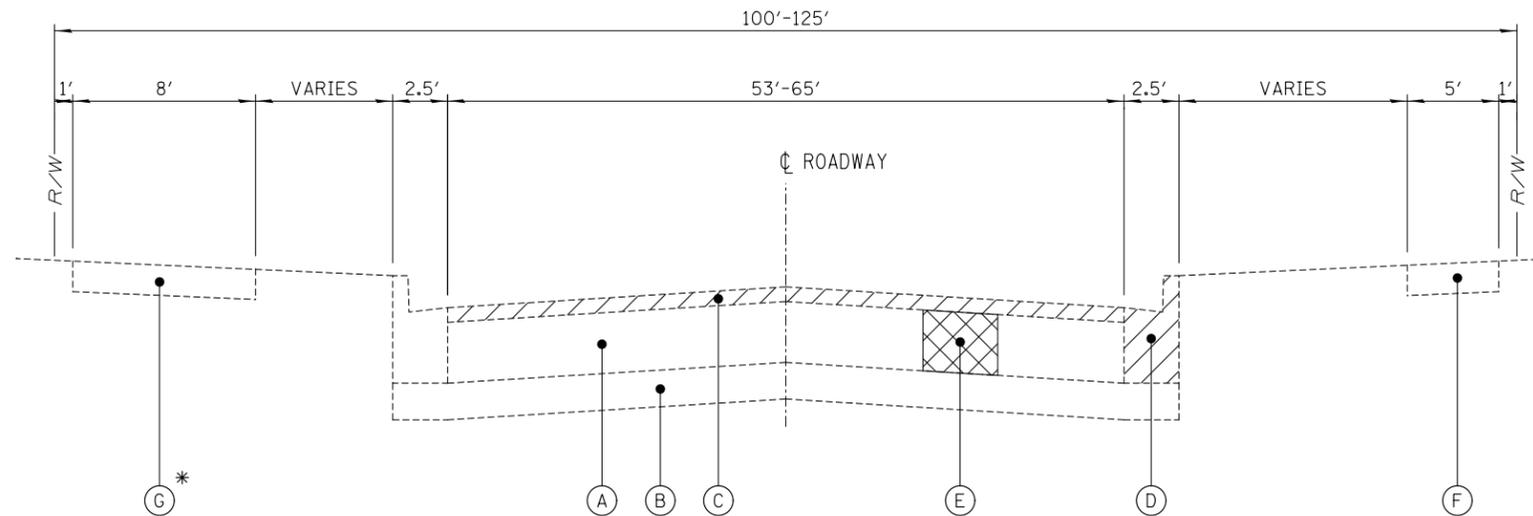
LEGEND

EXISTING:

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT
- (B) EXISTING AGGREGATE SUBBASE
- (C) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" (44000159)
- (D) COMB. CONCRETE CURB AND GUTTER REMOVAL (44000500), LOCATIONS DETERMINED BY ENGINEER
- (E) CLASS D PATCHES, 12 INCH (44201785, 44201789, 44201794, 44201796), LOCATIONS DETERMINED BY ENGINEER
- (F) SIDEWALK REMOVAL (44000600), LOCATIONS DETERMINED BY ENGINEER
- (G) EXISTING BIKE PATH

PROPOSED:

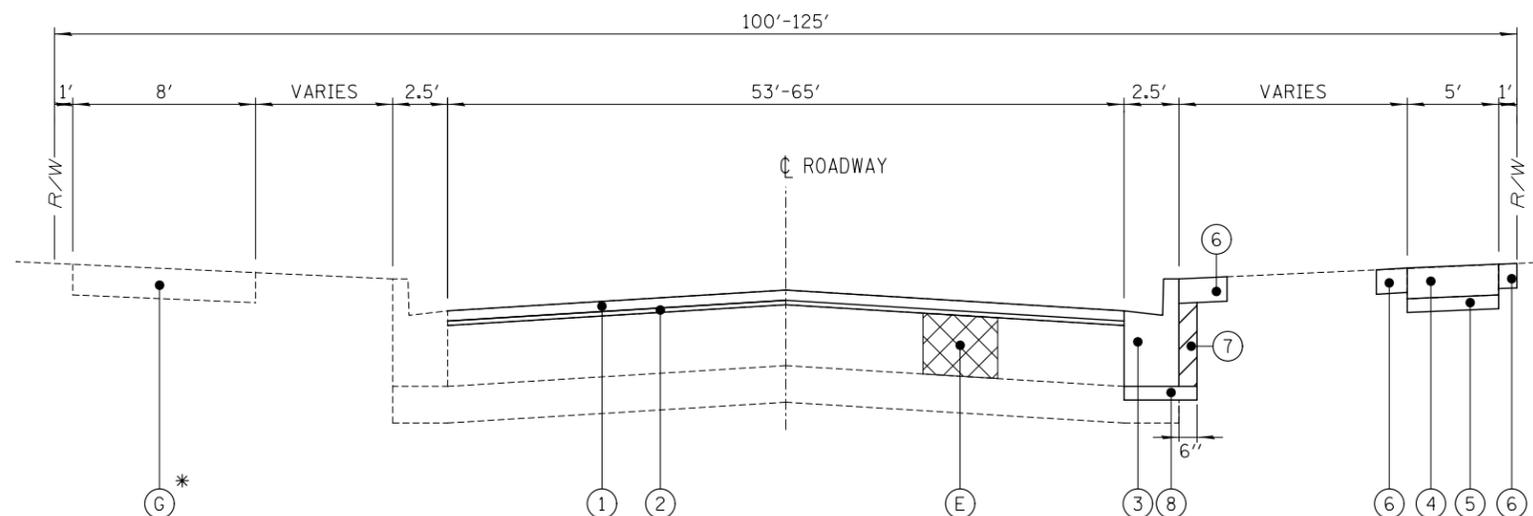
- (1) HOT-MIX ASPHALT SURFACE COURSE, IL-9.5 MIX D N70, 2" (40604062)
- (2) POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75 N50, 3/4" (40603200)
- (3) COMB. CONCRETE CURB AND GUTTER, TYPE B-6.24 (SPECIAL) (X6060052), LOCATIONS DETERMINED BY ENGINEER
- (4) PCC SIDEWALK 5 INCH (42400200), LOCATIONS DETERMINED BY ENGINEER
- (5) AGGREGATE BASE COURSE, TYPE B 4" (35101600), LOCATIONS DETERMINED BY ENGINEER
- (6) SEEDING, CLASS 1A (25000110), TOPSOIL FURNISH AND PLACE, 4" (21101615), EROSION CONTROL BLANKET (25100630)
- (7) EXCAVATION AND SUITABLE BACKFILL (INCLUDED IN COST OF PROPOSED CURB & GUTTER)
- (8) SUBBASE GRANULAR MATERIAL, TYPE B, 4" (INCLUDED IN COST OF PROPOSED CURB & GUTTER)



EXISTING TYPICAL SECTION

191st STREET STA. 101+10.87 TO STA. 183+13.75 & 191st STREET STA. 183+65.23 TO STA. 201+09.77

* STA. 158+00 TO STA. 173+05



PROPOSED TYPICAL SECTION

191st STREET STA. 101+10.87 TO STA. 183+13.75 & 191st STREET STA. 183+65.23 TO STA. 201+09.77

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ NDES	QMP
MAINLINE RESURFACING		
HMA SURFACE COURSE, IL-9.5 MIX "D", N70, 2"	4.0% @ 70 GYR.	LR 1030-2
POLYMERIZED HMA BINDER COURSE, IL-4.75 N50, 3/4"	3.5% @ 50 GYR.	LR 1030-2
HMA DRIVEWAY REMOVE AND REPLACE RESIDENTIAL ENTRANCE		
HMA SURFACE COURSE, MIX "D", N50 (IL 9.5mm), 3" (IN 2 LIFTS)	4.0% @ 50 GYR.	LR 1030-2
CLASS D PATCHES		
HMA BINDER COURSE, IL-19, N70, 12"	4.0% @ 70 GYR.	LR 1030-2
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE PER LR 1030-2		

NOTES:

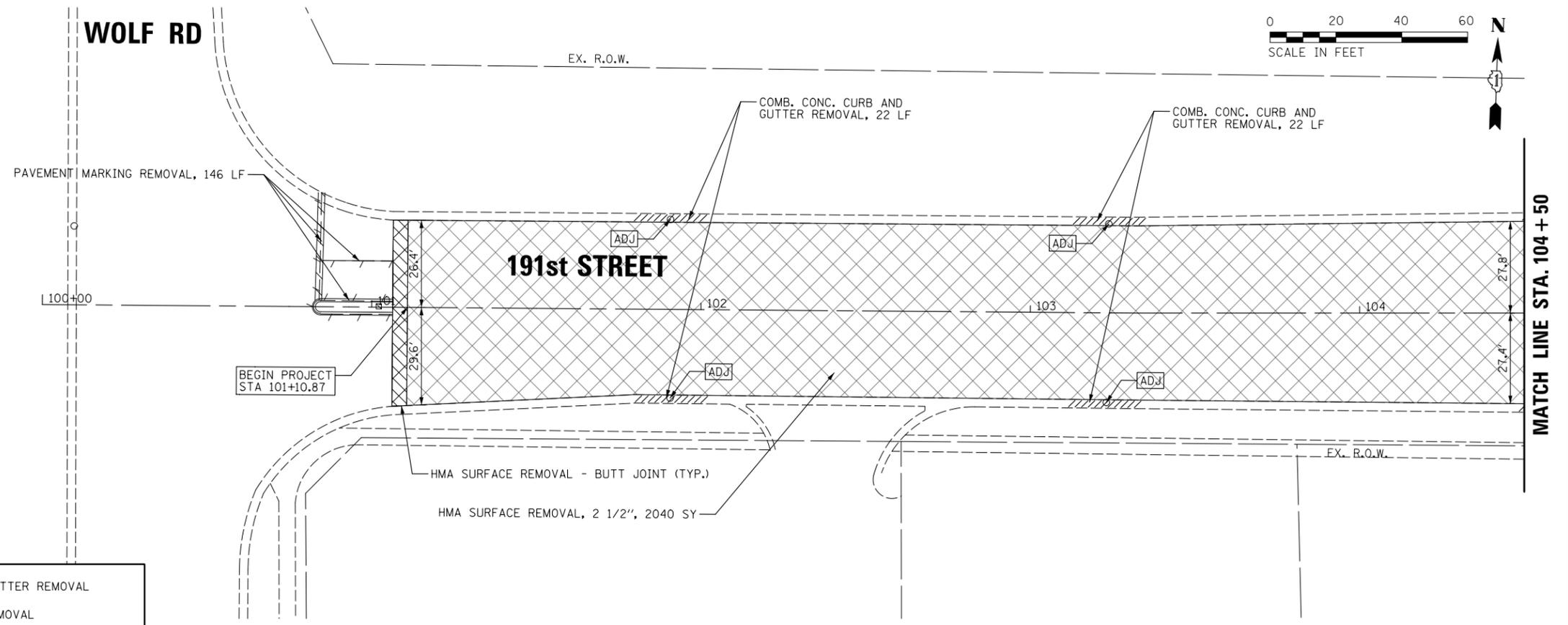
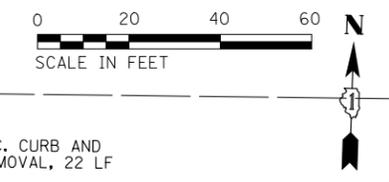
- THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE QUANTITIES IS 112 LBS/SQ YD/IN.
- THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY RECLAIMED MATERIALS SPECIFICATIONS.

NOTES:

- LOCATIONS FOR THE FOLLOWING ITEMS DETERMINED IN THE FIELD BY THE ENGINEER:
 - * COMB. CONCRETE CURB AND GUTTER REMOVE AND REPLACE
 - * CLASS D PATCHING
 - * PCC SIDEWALK REMOVE AND REPLACE
 - * SEEDING, TOPSOIL LIMITED TO 24" ADJACENT TO SIDEWALK AND CURB AND GUTTER
- PAVEMENT REMOVAL ADJACENT TO PROPOSED CURB AND GUTTER SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL. CONTRACTOR SHALL SAW CUT PAVEMENT PRIOR TO REMOVING CURB.
- THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED ON THE POLYMERIZED HMA BINDER COURSE IL-4.75 N50.

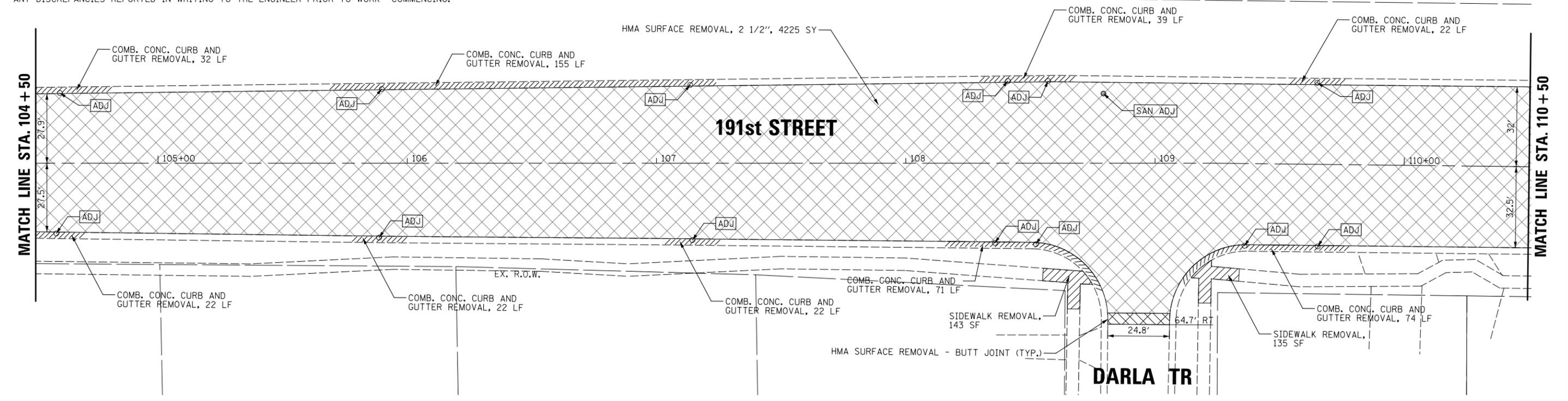
191st STREET CORE DETAILS:

CORE No.	1	2	3	4	5	6	7	8	9	10
STATION/OFFSET	108+25 26' LT	117+90 15' LT	128+75 0' LT	139+00 15' RT	149+00 25' RT	159+00 25' LT	169+00 15' LT	179+00 0' LT	189+00 15' RT	199+00 25' RT
TOTAL BITUMINOUS THICKNESS (INCH)	13 1/4	14	18 1/2	15 1/4	15 3/4	13	13 1/4	11 1/4	15 1/2	14
AGGREGATE BASE COURSE THICKNESS (INCH)	16 3/4	28	23	27	4	29	29	31	9	12



REMOVAL LEGEND	
	HMA SURFACE REMOVAL, 2 1/2"
	SIDEWALK REMOVAL
	PAVEMENT REMOVAL
	CURB AND GUTTER REMOVAL
	FRAMES AND LIDS TO BE ADJUSTED
	FRAMES & LIDS TO BE ADJUSTED (SPECIAL)
	SANITARY MANHOLES TO BE ADJUSTED

NOTE: EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING.



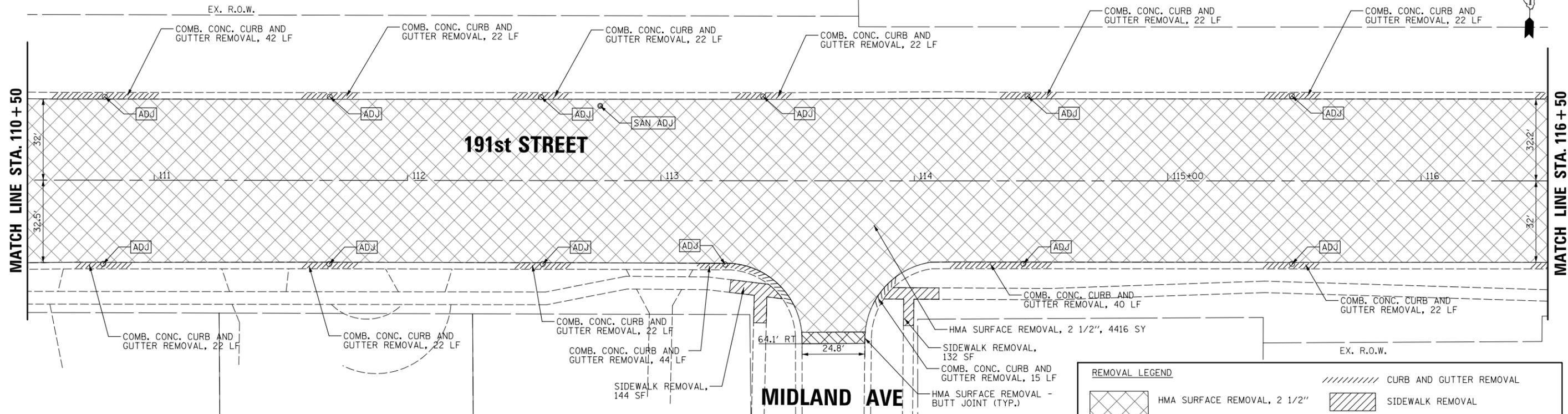
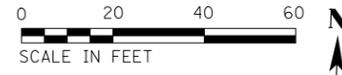
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
191st STREET**

SCALE: 20' SHEET 1 OF 11 SHEETS STA. 101+79.20 TO STA. 110+50

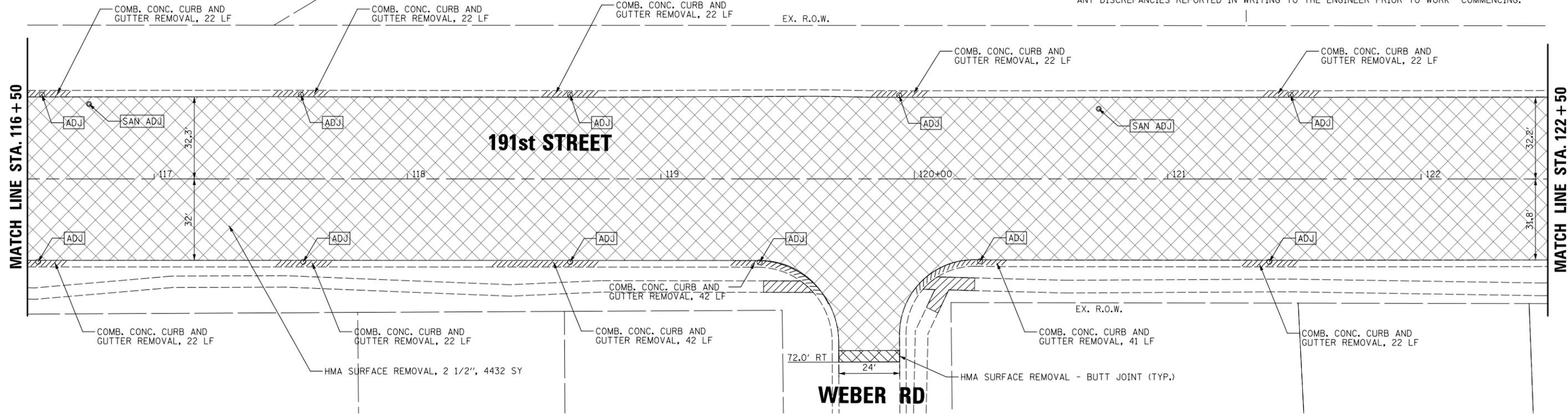
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-RS	WILL	41	9
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J78	



REMOVAL LEGEND

	HMA SURFACE REMOVAL, 2 1/2"		CURB AND GUTTER REMOVAL
	PAVEMENT REMOVAL		SIDEWALK REMOVAL
	FRAMES AND LIDS TO BE ADJUSTED		FRAMES & LIDS TO BE ADJUSTED (SPECIAL)
	SANITARY MANHOLES TO BE ADJUSTED		

NOTE: EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING.

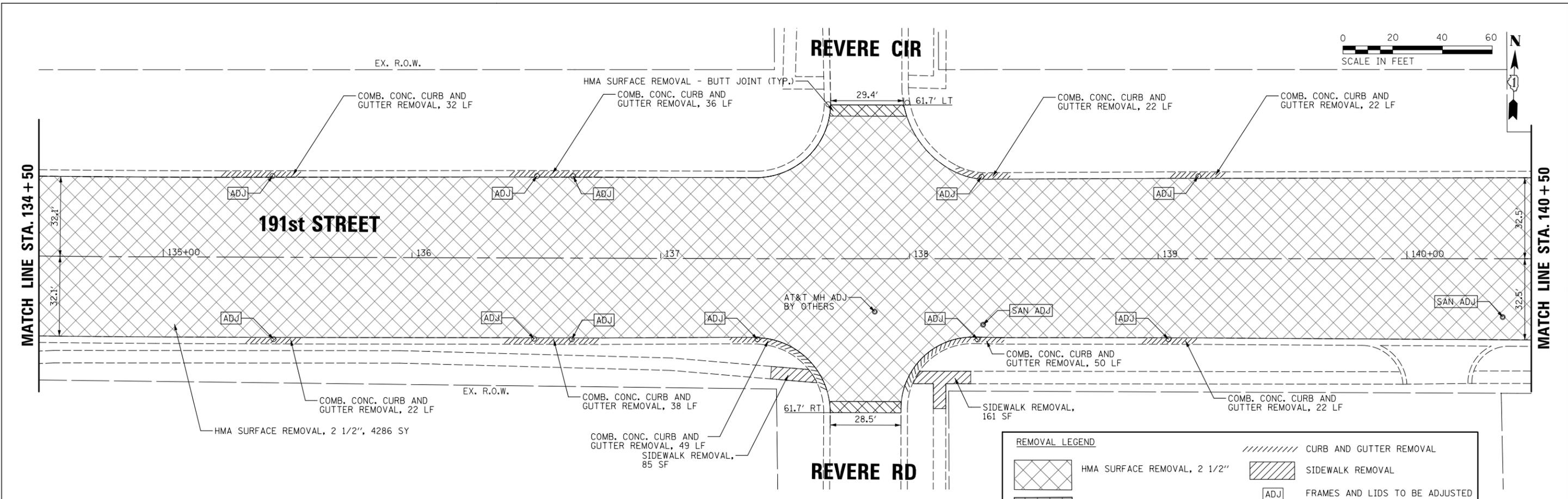


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

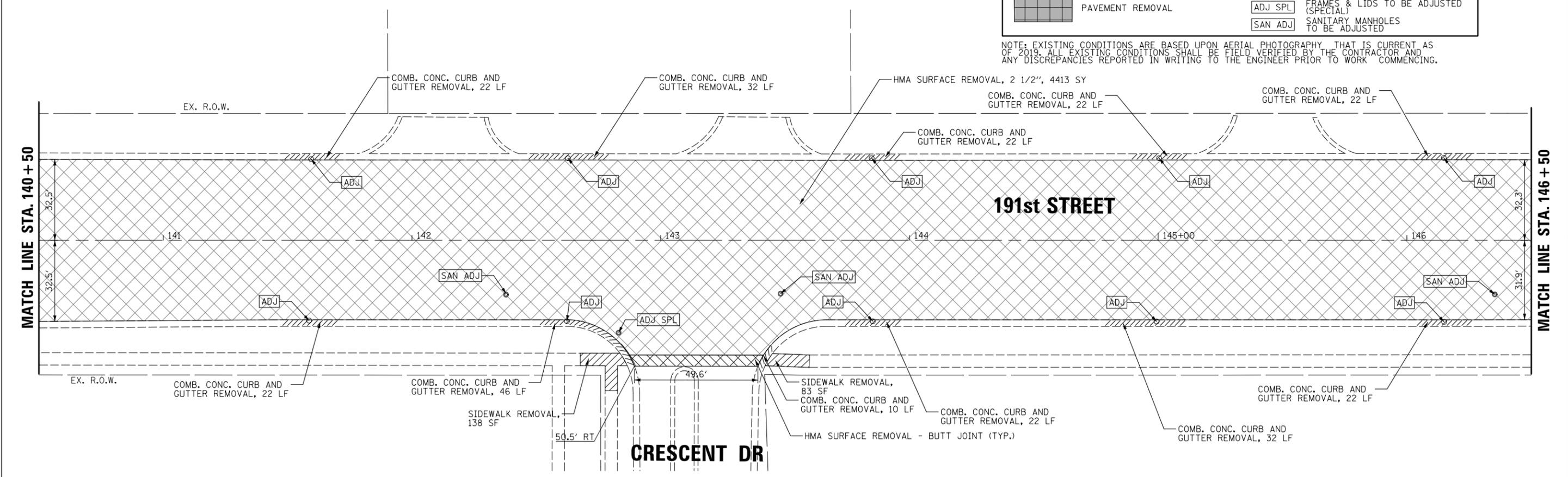
REMOVAL PLAN			
191st STREET			
SCALE: 20'	SHEET 2 OF 11 SHEETS	STA. 110+50 TO STA. 122+50	

MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	10
CONTRACT NO.			61J78	
ILLINOIS FED. AID PROJECT				



REMOVAL LEGEND	
	HMA SURFACE REMOVAL, 2 1/2"
	PAVEMENT REMOVAL
	CURB AND GUTTER REMOVAL
	SIDEWALK REMOVAL
	FRAMES AND LIDS TO BE ADJUSTED
	FRAMES & LIDS TO BE ADJUSTED (SPECIAL)
	SANITARY MANHOLES TO BE ADJUSTED

NOTE: EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY, THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING.



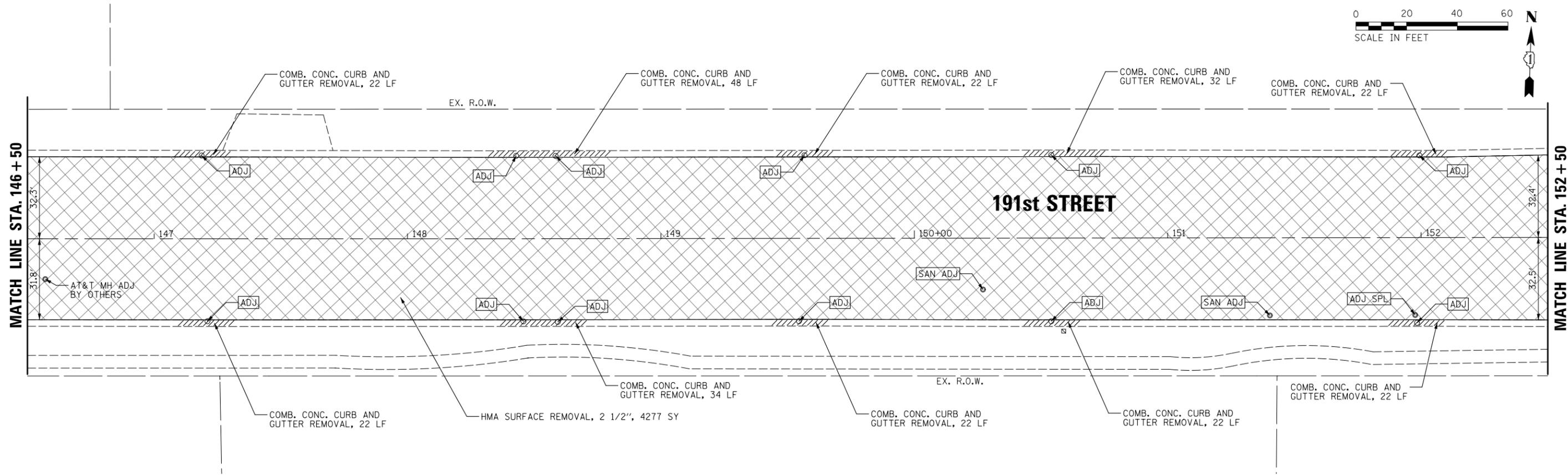
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		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

REMOVAL PLAN
191st STREET

SCALE: 20' SHEET 4 OF 11 SHEETS STA. 134+50 TO STA. 146+50

MUN RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	12
CONTRACT NO. 61J78			ILLINOIS FED. AID PROJECT	



REMOVAL LEGEND	
	HMA SURFACE REMOVAL, 2 1/2"
	CURB AND GUTTER REMOVAL
	PAVEMENT REMOVAL
	FRAMES AND LIDS TO BE ADJUSTED
	FRAMES & LIDS TO BE ADJUSTED (SPECIAL)
	SANITARY MANHOLES TO BE ADJUSTED

NOTE: EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING.

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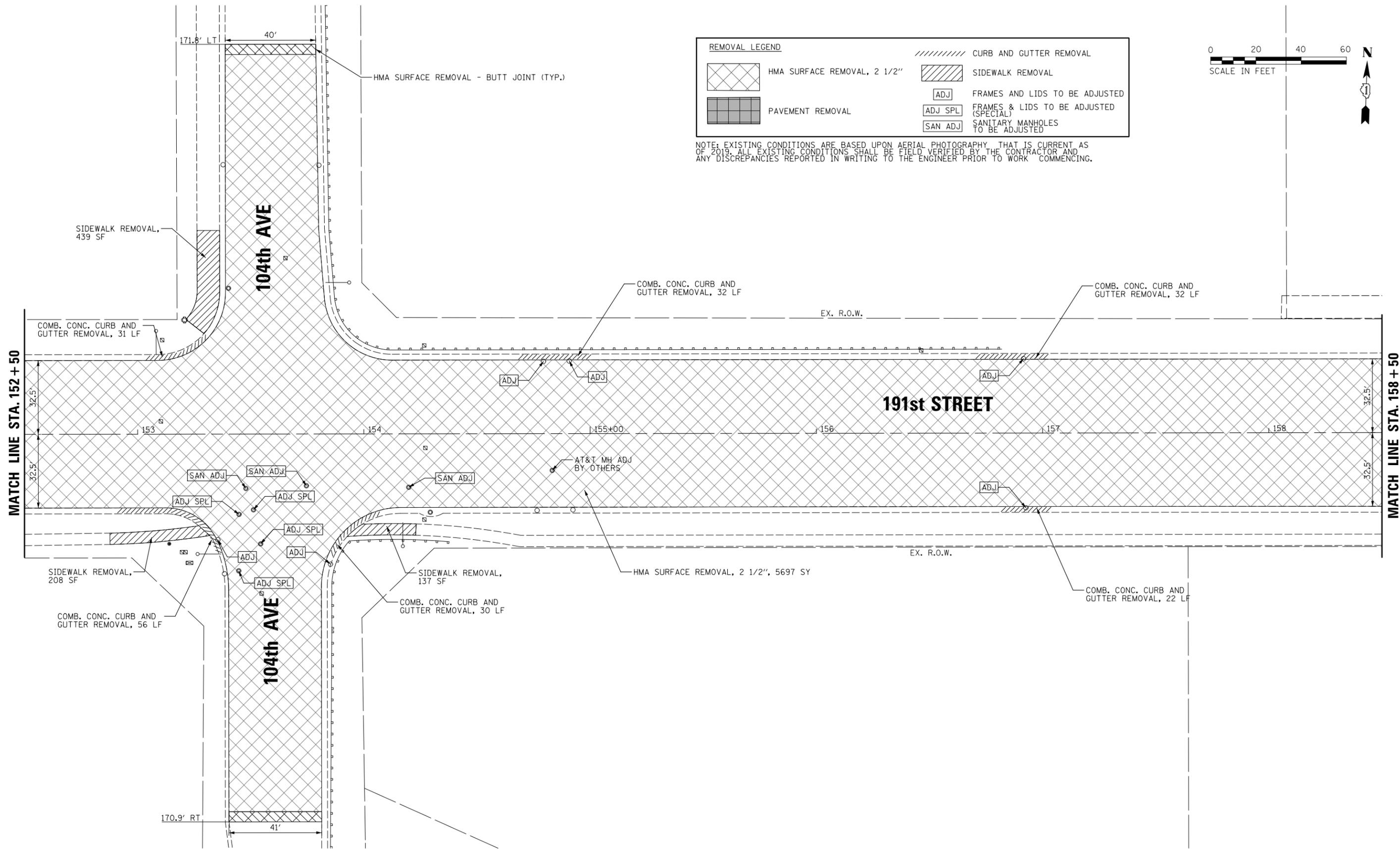
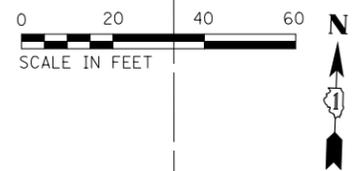
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN			
191st STREET			
SCALE: 20'	SHEET 5	OF 11 SHEETS	STA. 146+50 TO STA. 152+50

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-RS	WILL	41	13
ILLINOIS FED. AID PROJECT			CONTRACT NO.	61J78

REMOVAL LEGEND	
	HMA SURFACE REMOVAL, 2 1/2"
	PAVEMENT REMOVAL
	CURB AND GUTTER REMOVAL
	SIDEWALK REMOVAL
	FRAMES AND LIDS TO BE ADJUSTED
	FRAMES & LIDS TO BE ADJUSTED (SPECIAL)
	SANITARY MANHOLES TO BE ADJUSTED

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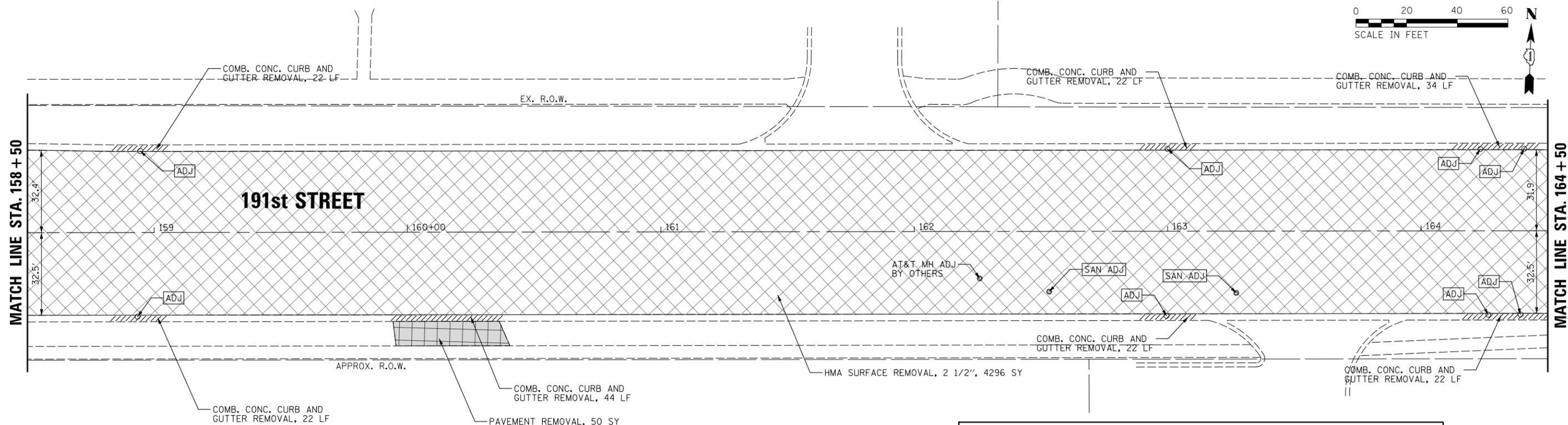
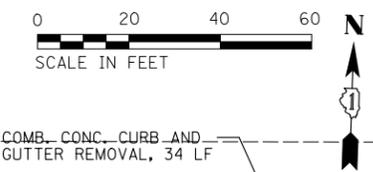


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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN			
191st STREET			
SCALE: 20'	SHEET 6 OF 11 SHEETS	STA. 152+50 TO STA. 158+50	

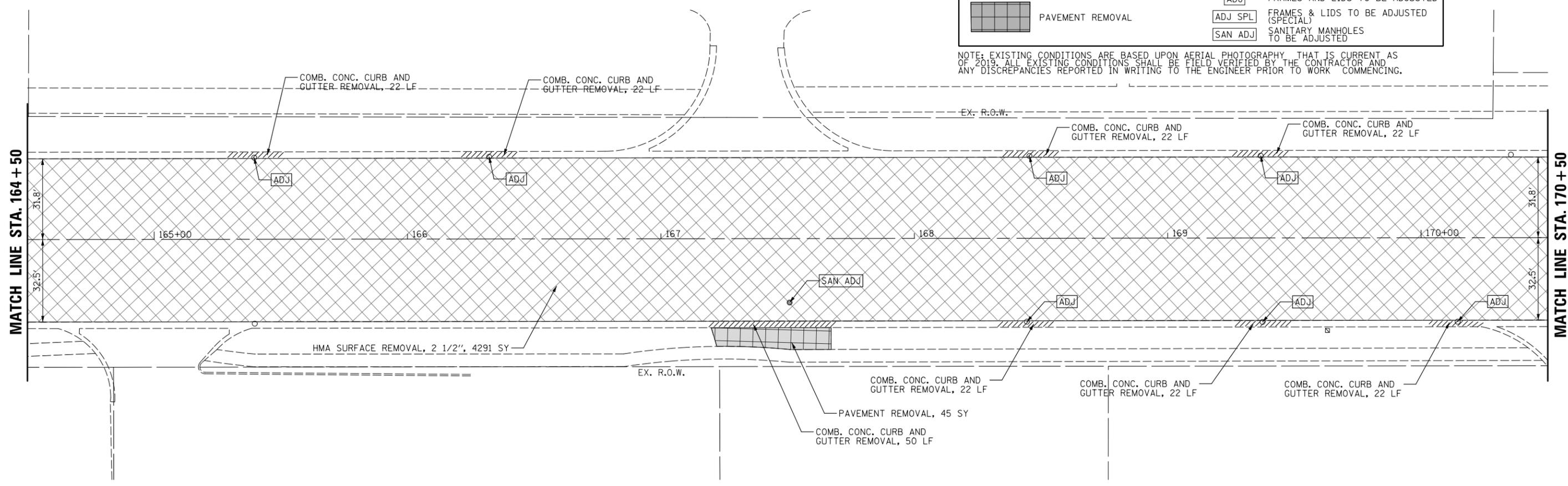
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	14
ILLINOIS FED. AID PROJECT			CONTRACT NO.	61J78



REMOVAL LEGEND

	HMA SURFACE REMOVAL, 2 1/2"		CURB AND GUTTER REMOVAL
	PAVEMENT REMOVAL		FRAMES AND LIDS TO BE ADJUSTED
			FRAMES & LIDS TO BE ADJUSTED (SPECIAL)
			SANITARY MANHOLES TO BE ADJUSTED

NOTE: EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING.



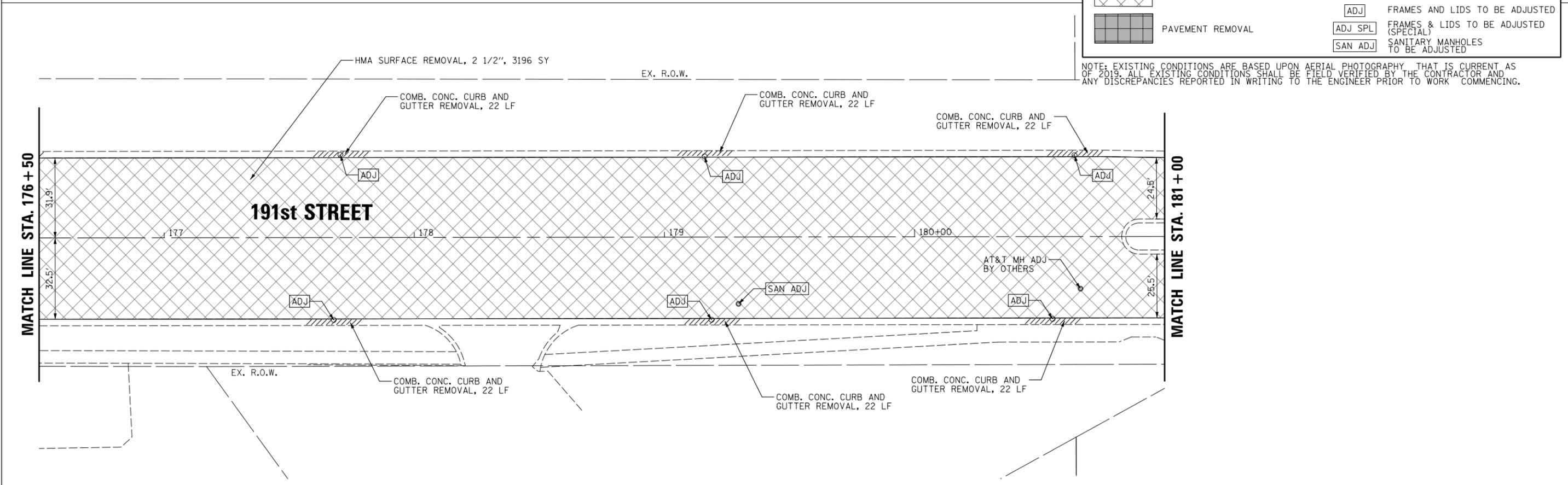
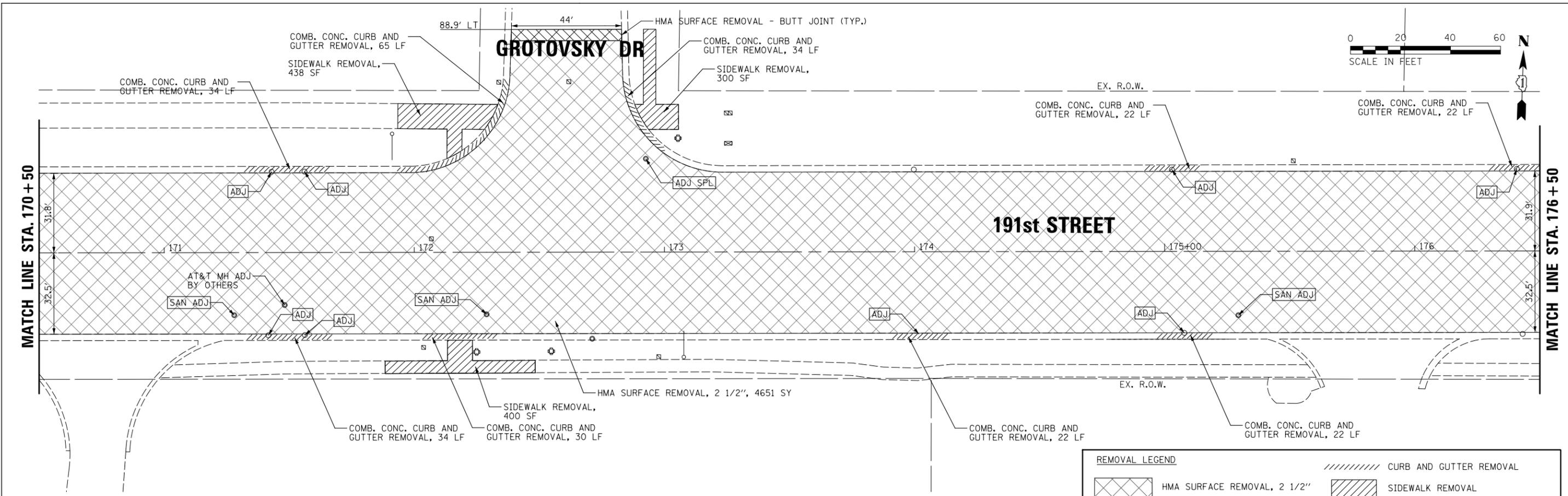
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
191st STREET**

SCALE: 20' SHEET 7 OF 11 SHEETS STA. 158+50 TO STA. 170+50

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-RS	WILL	41	15
CONTRACT NO. 61J78			ILLINOIS FED. AID PROJECT	



REMOVAL LEGEND	
	HMA SURFACE REMOVAL, 2 1/2"
	CURB AND GUTTER REMOVAL
	PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	ADJ
	ADJ SPL
	SAN ADJ
	FRAMES AND LIDS TO BE ADJUSTED
	FRAMES & LIDS TO BE ADJUSTED (SPECIAL)
	SANITARY MANHOLES TO BE ADJUSTED

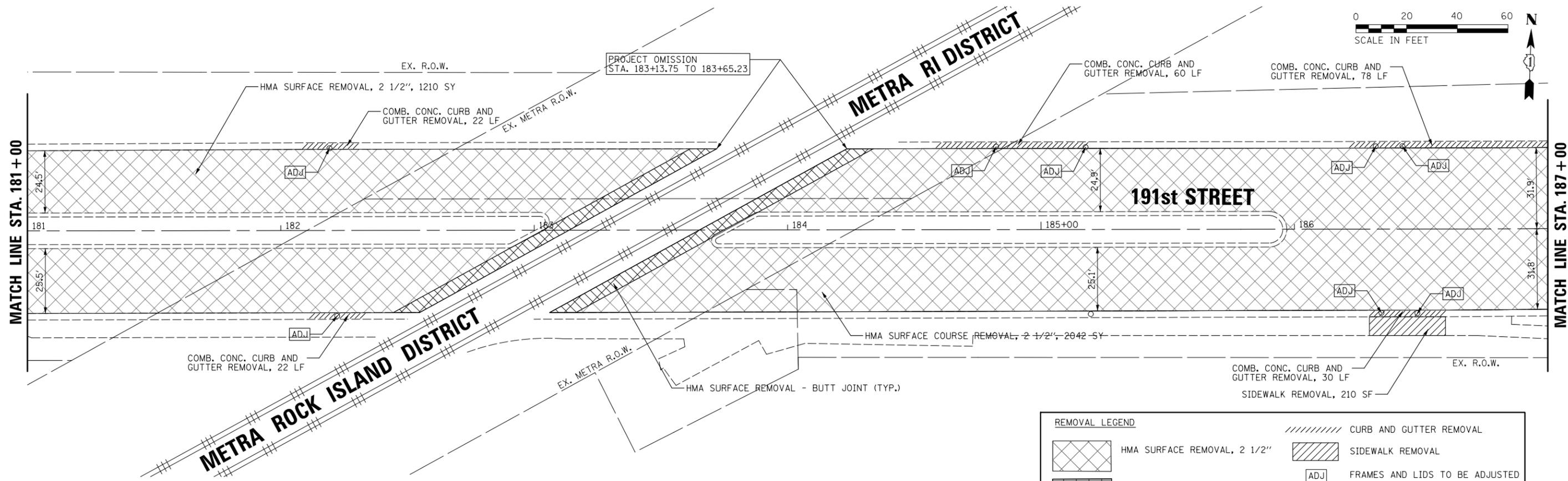
NOTE: EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN 191st STREET			
SCALE: 20'	SHEET 8 OF 11 SHEETS	STA. 170+50 TO STA. 181+00	

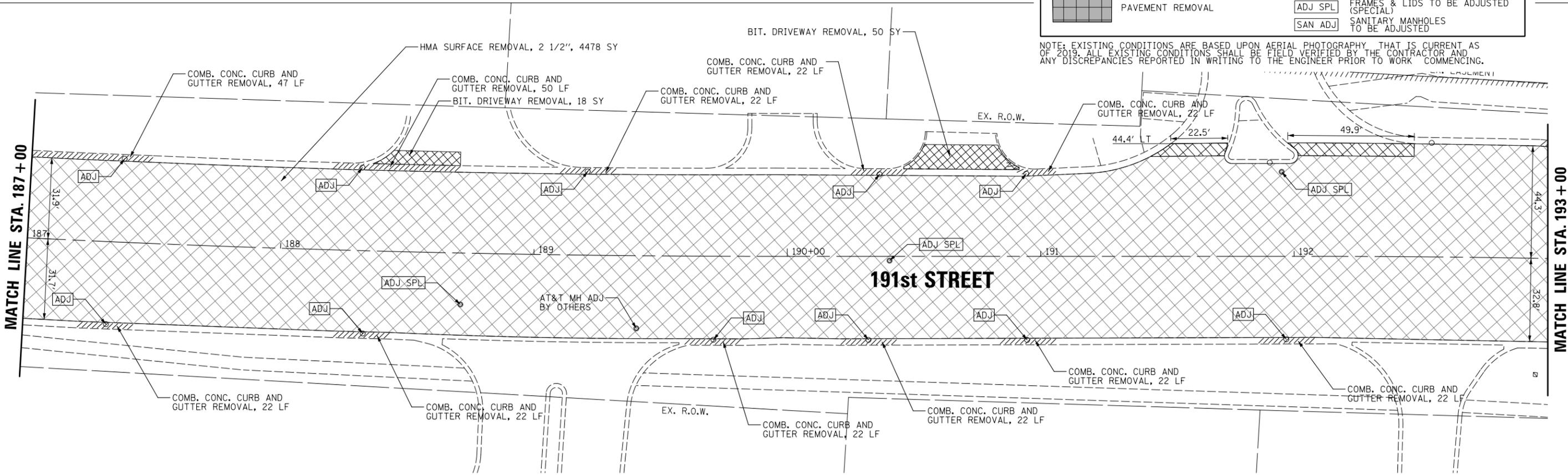
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3754	21-00034-00-R5	WILL	41	16
CONTRACT NO. 61J78			ILLINOIS FED. AID PROJECT	



REMOVAL LEGEND

	HMA SURFACE REMOVAL, 2 1/2"		CURB AND GUTTER REMOVAL
	PAVEMENT REMOVAL		FRAMES AND LIDS TO BE ADJUSTED
			FRAMES & LIDS TO BE ADJUSTED (SPECIAL)
			SANITARY MANHOLES TO BE ADJUSTED

NOTE: EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING.



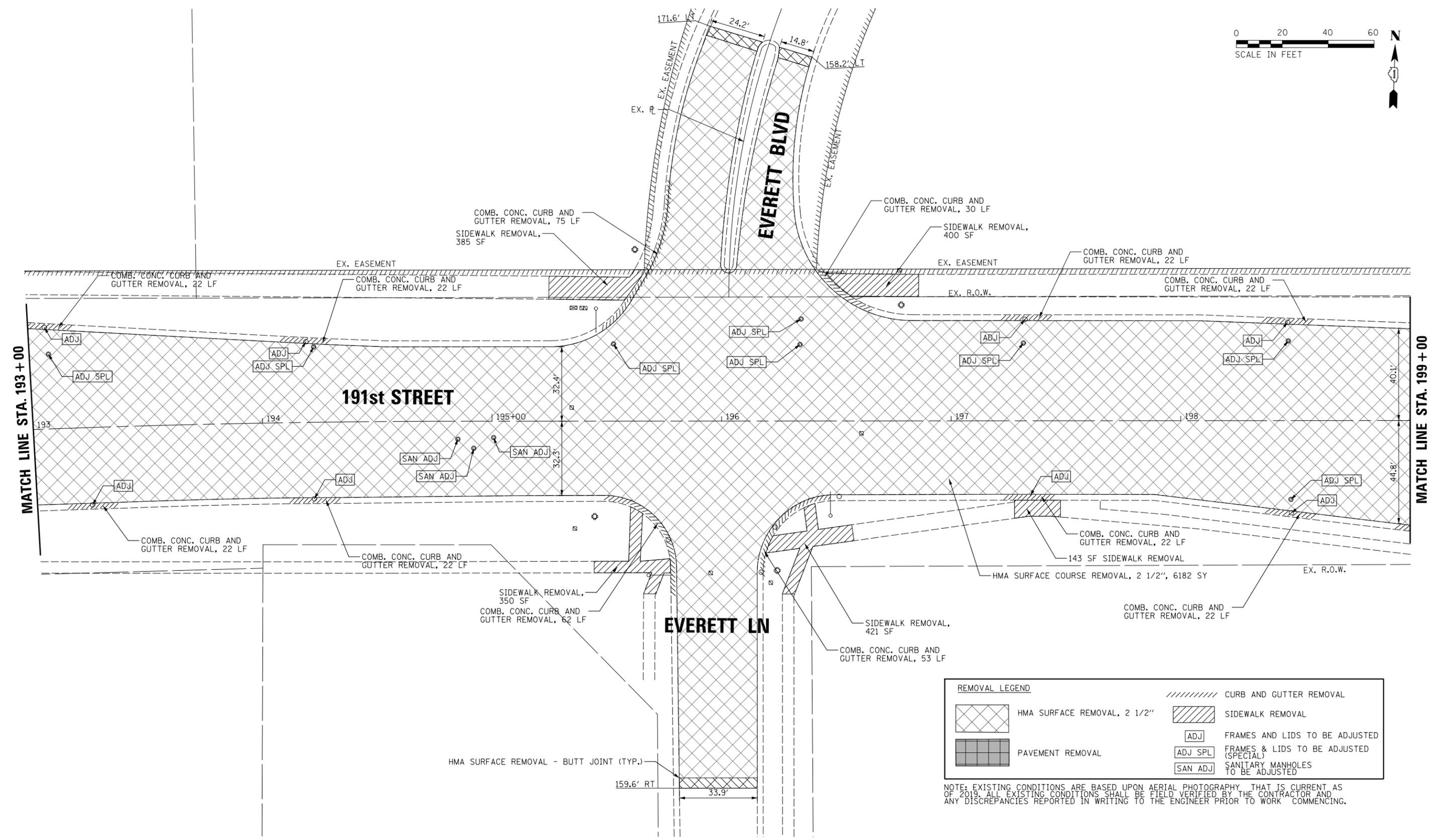
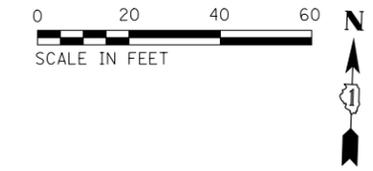
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
191st STREET**

SCALE: 20' SHEET 9 OF 11 SHEETS STA. 181+00 TO STA. 193+00

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	17
CONTRACT NO.			61J78	
ILLINOIS FED. AID PROJECT				



REMOVAL LEGEND	
	HMA SURFACE REMOVAL, 2 1/2"
	CURB AND GUTTER REMOVAL
	PAVEMENT REMOVAL
	FRAMES AND LIDS TO BE ADJUSTED
	FRAMES & LIDS TO BE ADJUSTED (SPECIAL)
	SANITARY MANHOLES TO BE ADJUSTED
	SIDEWALK REMOVAL

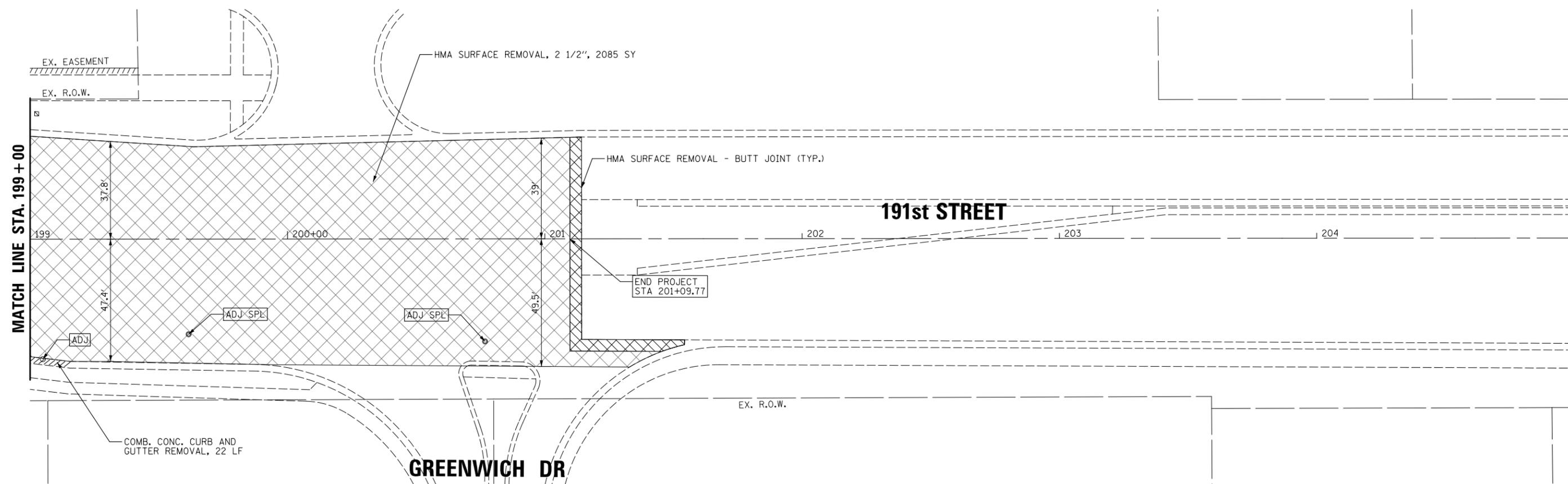
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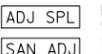
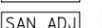
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

REMOVAL PLAN			
191st STREET			
SCALE: 20'	SHEET 10 OF 11 SHEETS	STA. 193+00 TO STA. 199+00	

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-RS	WILL	41	18
CONTRACT NO. 61J78			ILLINOIS FED. AID PROJECT	



REMOVAL LEGEND	
	HMA SURFACE REMOVAL, 2 1/2"
	CURB AND GUTTER REMOVAL
	PAVEMENT REMOVAL
	SIDEWALK REMOVAL
	FRAMES & LIDS TO BE ADJUSTED
	FRAMES & LIDS TO BE ADJUSTED (SPECIAL)
	SANITARY MANHOLES TO BE ADJUSTED

NOTE: EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING.

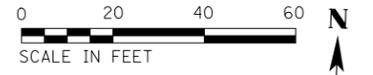
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**REMOVAL PLAN
191st STREET**

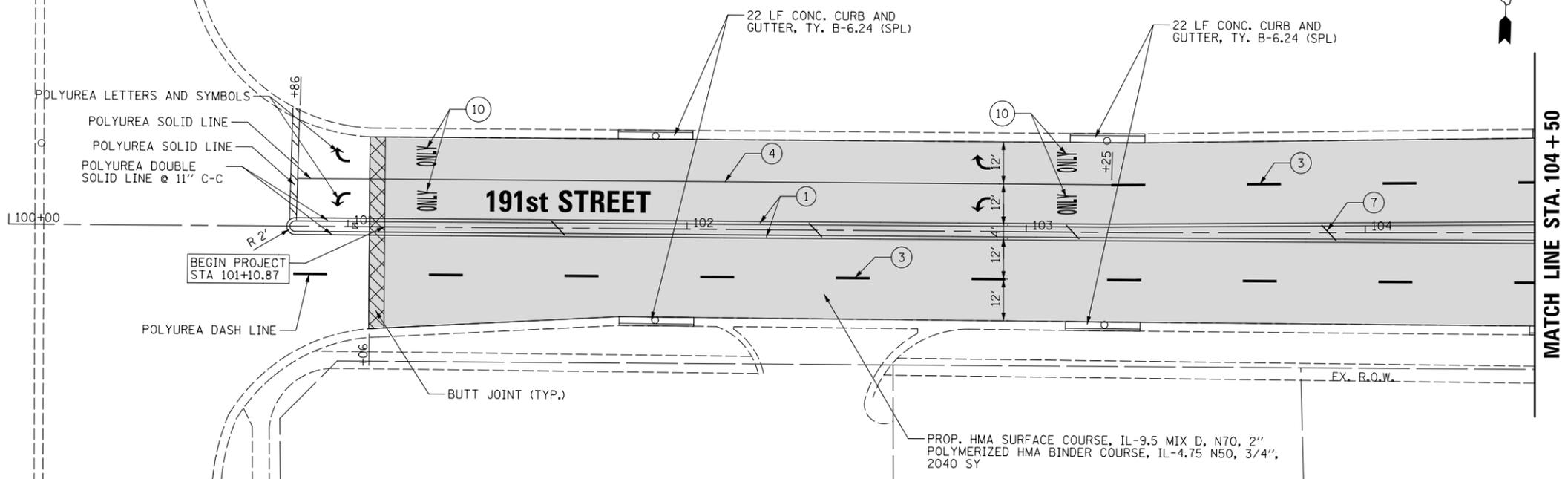
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	19
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J78	



WOLF RD

EX. R.O.W.



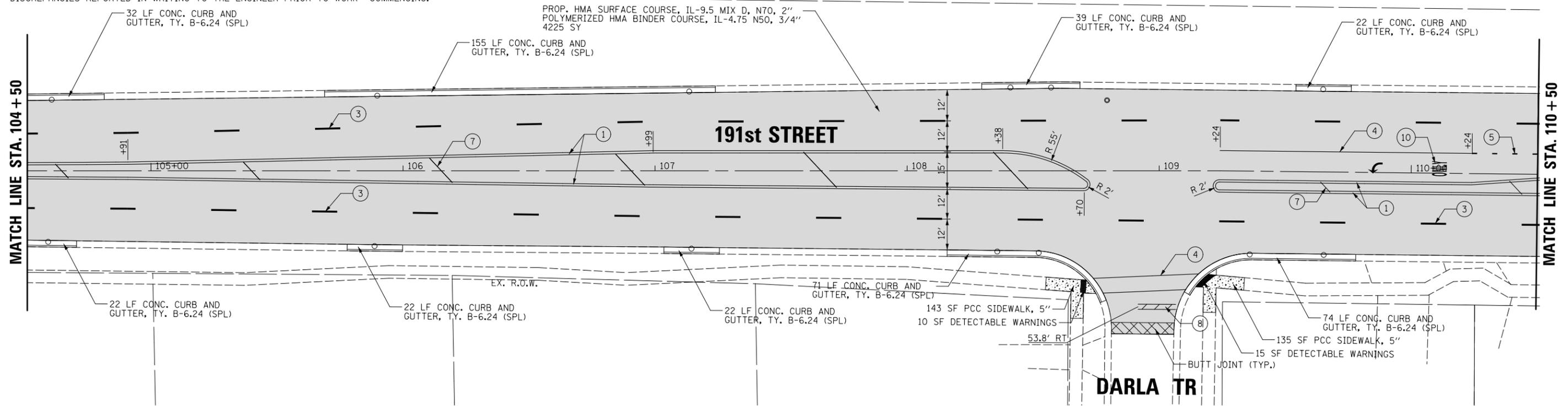
PROPOSED THERMOPLASTIC PAVEMENT MARKING LEGEND

① YELLOW 4" DOUBLE SOLID LINES @ 11" C-C	⑥ WHITE 10" LINE (@ 45°, 5' MIN)
② YELLOW 4" LINE	⑦ YELLOW 12" LINE (@ 45°, 55' C-C, 5' MIN)
③ WHITE 4" DASH LINE (10' LINE, 30' SPACE)	⑧ WHITE 24" LINE
④ WHITE 6" LINE	⑨ WHITE 12" LINE (@ 45°, 2' E-E)
⑤ WHITE 6" SKIP DASH (2' SKIP, 6' DASH)	⑩ LETTERS AND SYMBOLS

PROPOSED LEGEND

HMA RESURFACING (SEE TYPICAL SECTIONS)	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24 (SPECIAL)
BUTT JOINT	PCC SIDEWALK 5 INCH
HMA DRIVEWAY REMOVAL & REPLACEMENT	DETECTABLE WARNINGS

"EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING."



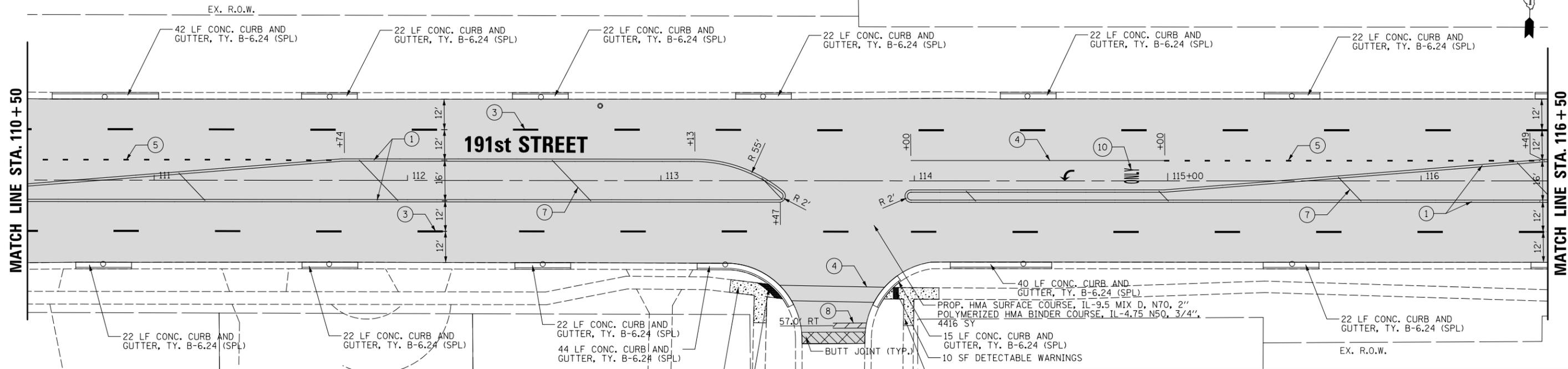
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN
191st STREET**

SCALE: 20' SHEET 1 OF 11 SHEETS STA. 101+79.20 TO STA. 110+50

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	20
CONTRACT NO.			61J78	
ILLINOIS FED. AID PROJECT				



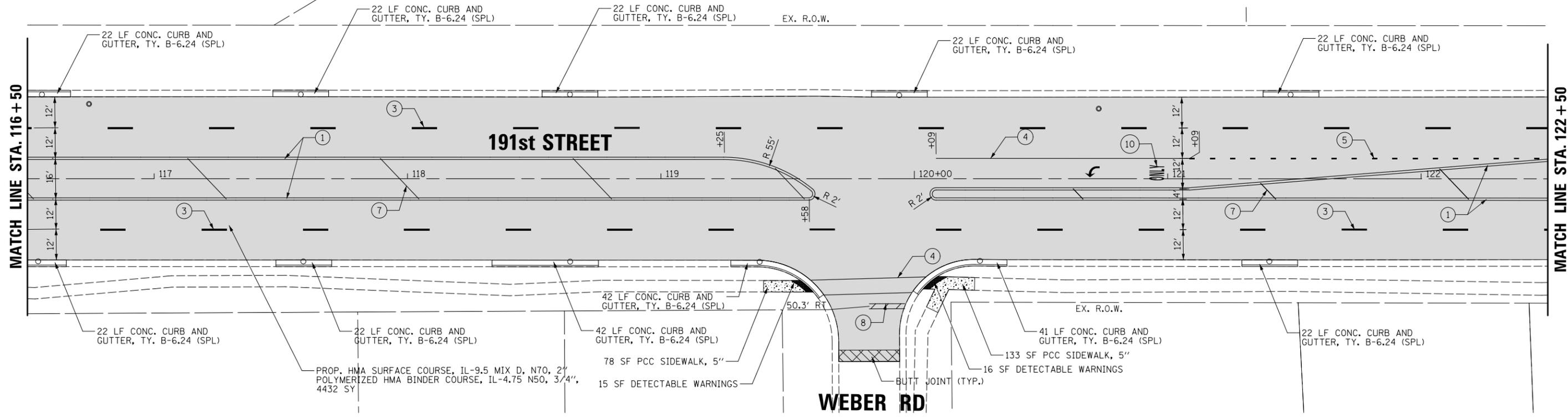
PROPOSED LEGEND

	HMA RESURFACING (SEE TYPICAL SECTIONS)		COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24 (SPECIAL)
	BUTT JOINT		PCC SIDEWALK 5 INCH
	HMA DRIVEWAY REMOVAL & REPLACEMENT		DETECTABLE WARNINGS

PROPOSED THERMOPLASTIC PAVEMENT MARKING LEGEND

①	YELLOW 4" DOUBLE SOLID LINES @ 11" C-C	⑥	WHITE 10" LINE (@ 45°, 5 MIN)
②	YELLOW 4" LINE	⑦	YELLOW 12" LINE (@ 45°, 55' C-C, 5 MIN)
③	WHITE 4" DASH LINE (10' LINE, 30' SPACE)	⑧	WHITE 24" LINE
④	WHITE 6" LINE	⑨	WHITE 12" LINE (@ 45°, 2' E-E)
⑤	WHITE 6" SKIP DASH (2' SKIP, 6' DASH)	⑩	LETTERS AND SYMBOLS

"EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING."



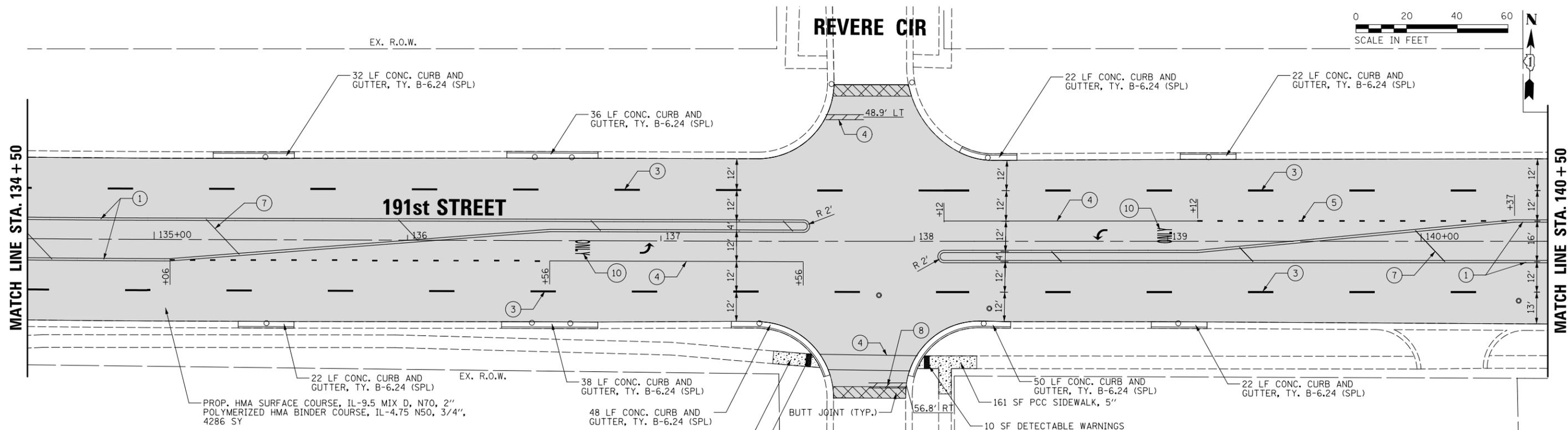
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	PLOT DATE = 8/31/2023	CHECKED - AJS	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN
191st STREET**

SCALE: 20' SHEET 2 OF 11 SHEETS STA. 110+50 TO STA. 122+50

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	21
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J78	



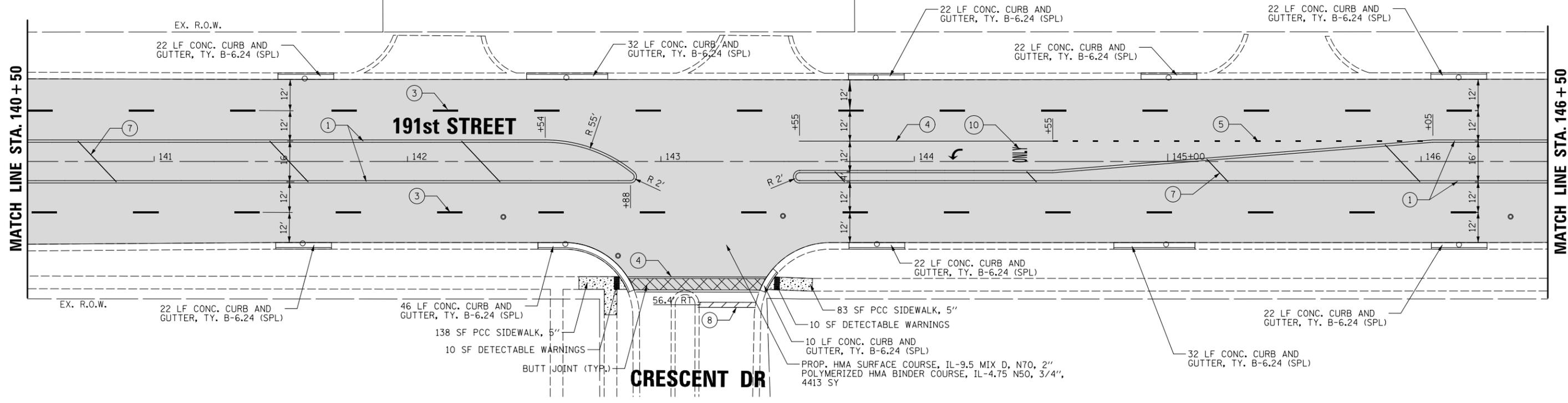
PROPOSED LEGEND

	HMA RESURFACING (SEE TYPICAL SECTIONS)		COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24 (SPECIAL)
	BUTT JOINT		PCC SIDEWALK 5 INCH
	HMA DRIVEWAY REMOVAL & REPLACEMENT		DETECTABLE WARNINGS

PROPOSED THERMOPLASTIC PAVEMENT MARKING LEGEND

① YELLOW 4" DOUBLE SOLID LINES @ 11" C-C	⑥ WHITE 10" LINE (@ 45°, 5' MIN)
② YELLOW 4" LINE	⑦ YELLOW 12" LINE (@ 45°, 55' C-C, 5' MIN)
③ WHITE 4" DASH LINE (10' LINE, 30' SPACE)	⑧ WHITE 24" LINE
④ WHITE 6" LINE	⑨ WHITE 12" LINE (@ 45°, 2' E-E)
⑤ WHITE 6" SKIP DASH (2' SKIP, 6' DASH)	⑩ LETTERS AND SYMBOLS

"EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING."



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	PLOT DATE = 8/31/2023	CHECKED - AJS	REVISED -
		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED PLAN	
191st STREET	
SCALE: 20'	SHEET 4 OF 11 SHEETS
STA. 134+50	TO STA. 146+50

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	23
CONTRACT NO.			61J78	
ILLINOIS FED. AID PROJECT				

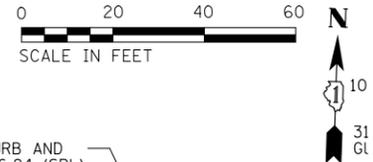
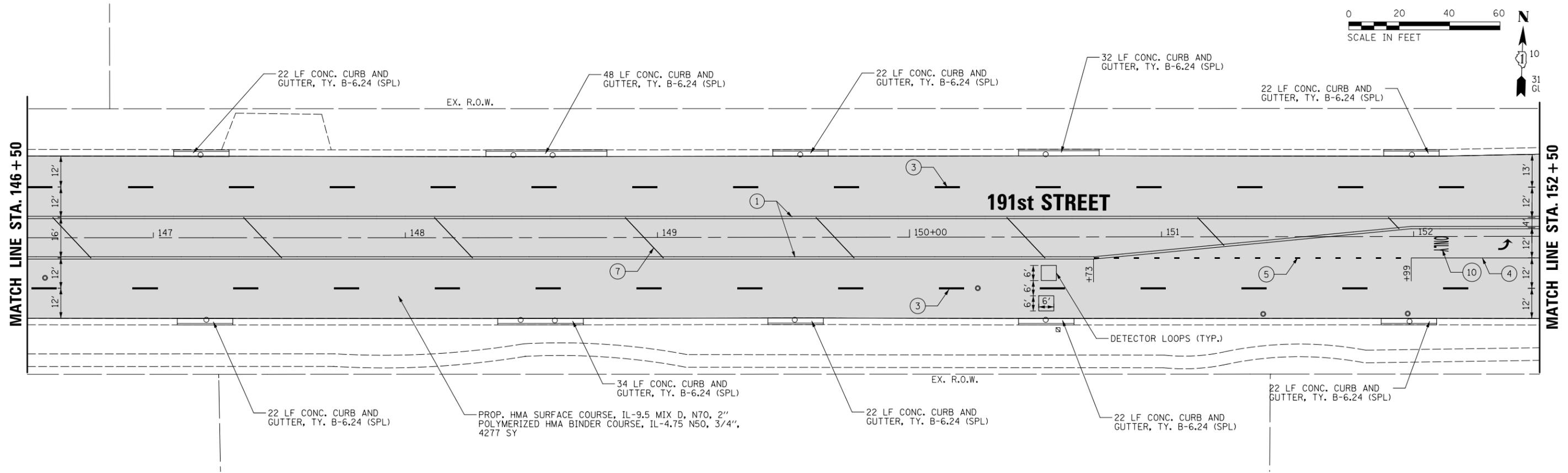
PROPOSED THERMOPLASTIC PAVEMENT MARKING LEGEND

- | | |
|--|---|
| ① YELLOW 4" DOUBLE SOLID LINES @ 11" C-C | ⑥ WHITE 10" LINE (@ 45°, 5 MIN) |
| ② YELLOW 4" LINE | ⑦ YELLOW 12" LINE (@ 45°, 55' C-C, 5 MIN) |
| ③ WHITE 4" DASH LINE (10' LINE, 30' SPACE) | ⑧ WHITE 24" LINE |
| ④ WHITE 6" LINE | ⑨ WHITE 12" LINE (@ 45°, 2' E-E) |
| ⑤ WHITE 6" SKIP DASH (2' SKIP, 6' DASH) | ⑩ LETTERS AND SYMBOLS |

PROPOSED LEGEND

- | | |
|--|---|
| HMA RESURFACING (SEE TYPICAL SECTIONS) | COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24 (SPECIAL) |
| BUTT JOINT | PCC SIDEWALK 5 INCH |
| HMA DRIVEWAY REMOVAL & REPLACEMENT | DETECTABLE WARNINGS |

"EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING."



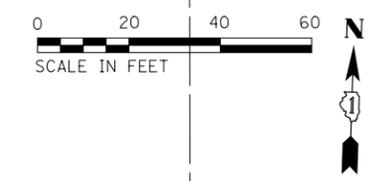
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN
191st STREET**

SCALE: 20' SHEET 5 OF 11 SHEETS STA. 146+50 TO STA. 152+50

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	24
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J78	



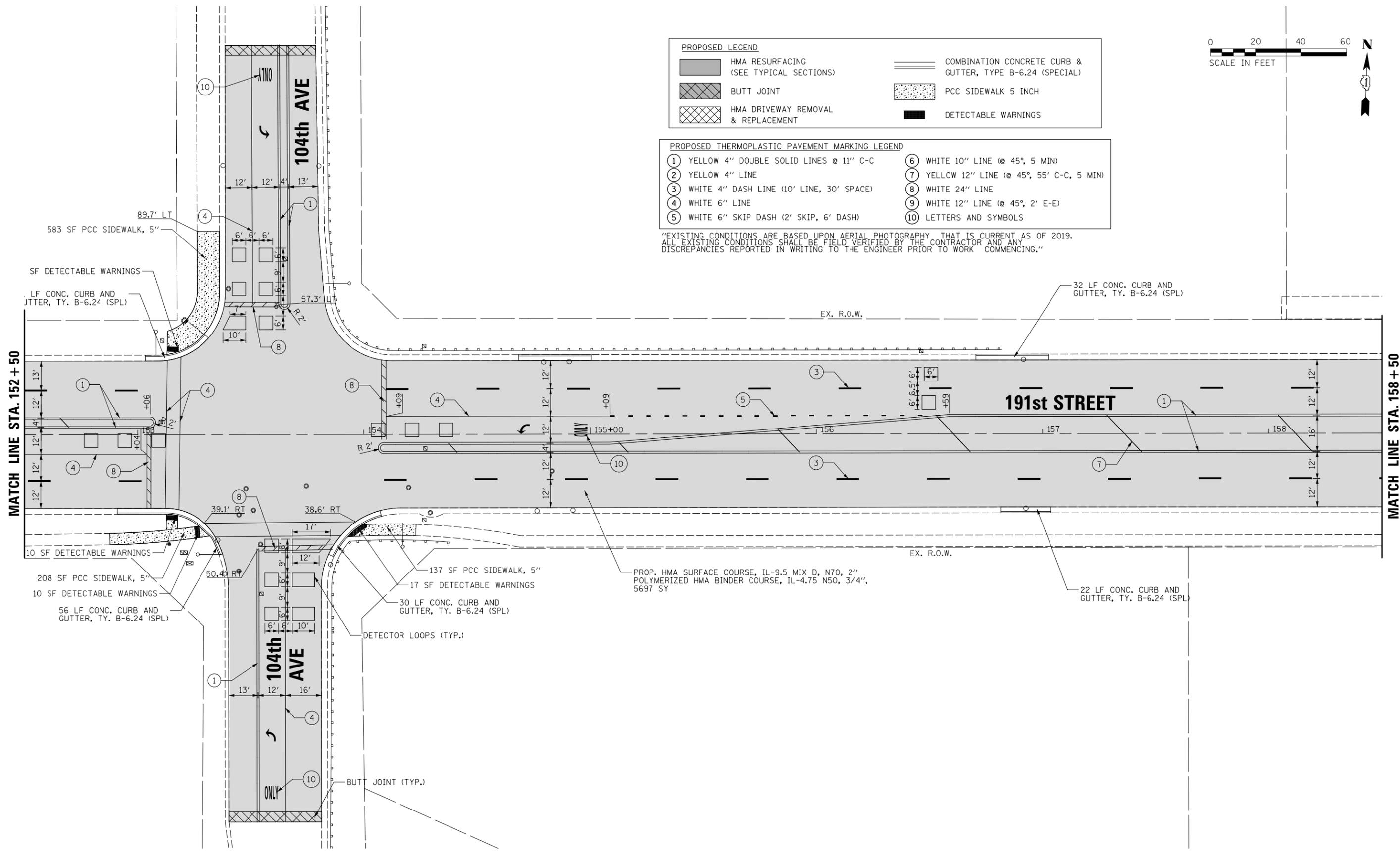
PROPOSED LEGEND

HMA RESURFACING (SEE TYPICAL SECTIONS)	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24 (SPECIAL)
BUTT JOINT	PCC SIDEWALK 5 INCH
HMA DRIVEWAY REMOVAL & REPLACEMENT	DETECTABLE WARNINGS

PROPOSED THERMOPLASTIC PAVEMENT MARKING LEGEND

① YELLOW 4" DOUBLE SOLID LINES @ 11" C-C	⑥ WHITE 10" LINE (@ 45°, 5 MIN)
② YELLOW 4" LINE	⑦ YELLOW 12" LINE (@ 45°, 55' C-C, 5 MIN)
③ WHITE 4" DASH LINE (10' LINE, 30' SPACE)	⑧ WHITE 24" LINE
④ WHITE 6" LINE	⑨ WHITE 12" LINE (@ 45°, 2' E-E)
⑤ WHITE 6" SKIP DASH (2' SKIP, 6' DASH)	⑩ LETTERS AND SYMBOLS

"EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING."



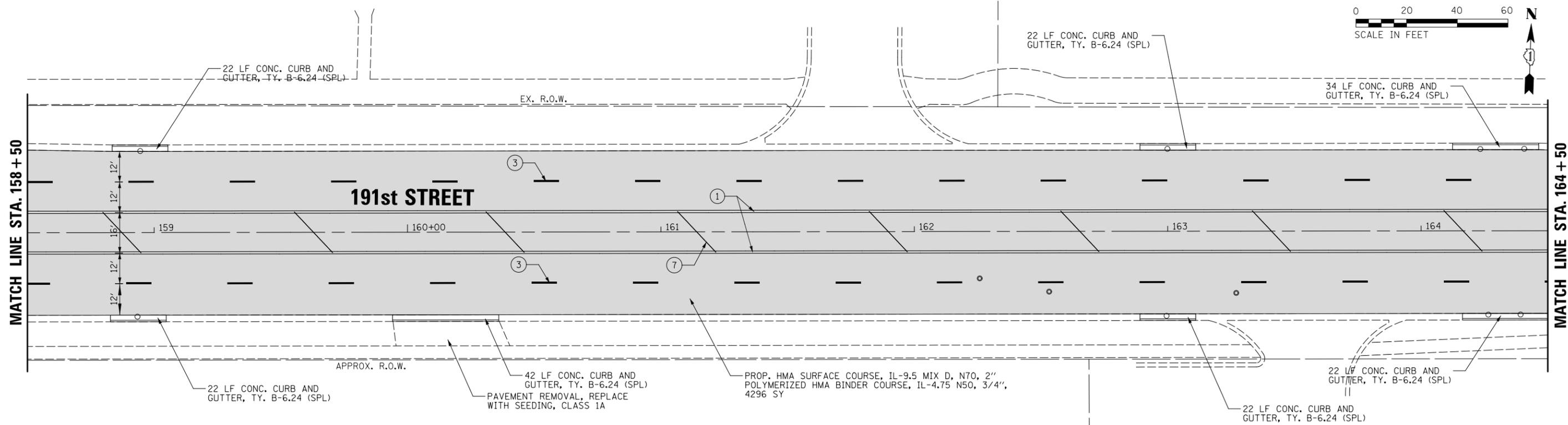
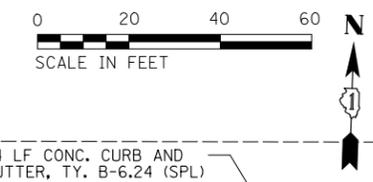
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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN
191st STREET**

SCALE: 20' SHEET 6 OF 11 SHEETS STA. 152+50 TO STA. 158+50

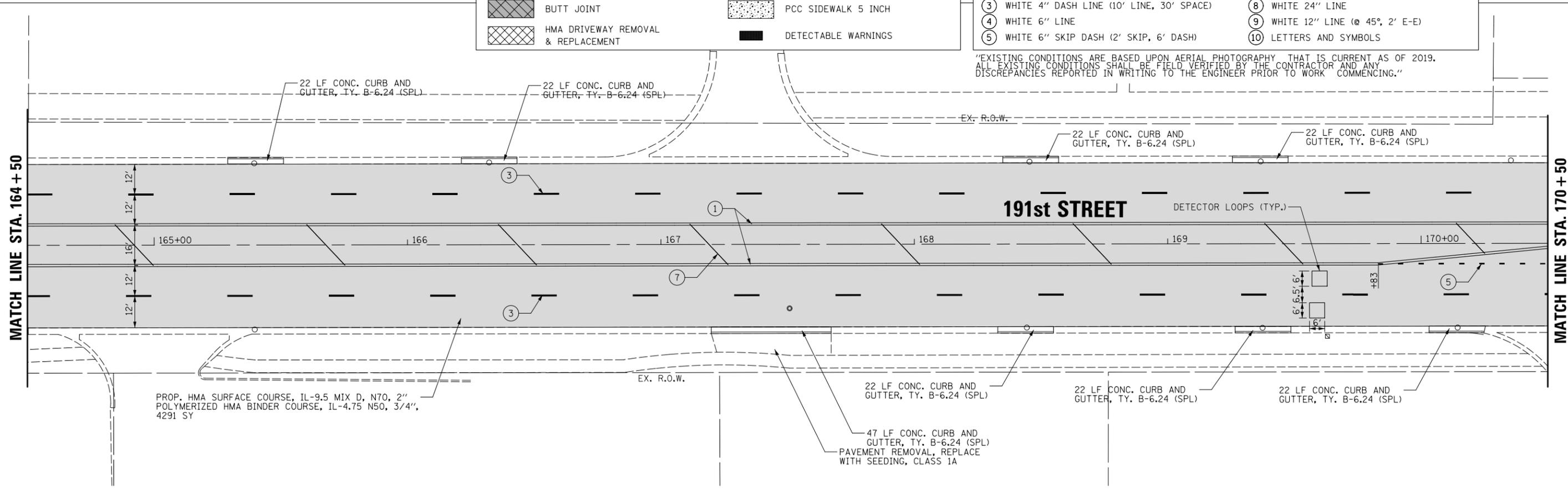
MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	25
CONTRACT NO. 61J78			ILLINOIS FED. AID PROJECT	



PROPOSED LEGEND	
	HMA RESURFACING (SEE TYPICAL SECTIONS)
	BUTT JOINT
	HMA DRIVEWAY REMOVAL & REPLACEMENT
	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24 (SPECIAL)
	PCC SIDEWALK 5 INCH
	DETECTABLE WARNINGS

PROPOSED THERMOPLASTIC PAVEMENT MARKING LEGEND	
①	YELLOW 4" DOUBLE SOLID LINES @ 11" C-C
②	YELLOW 4" LINE
③	WHITE 4" DASH LINE (10' LINE, 30' SPACE)
④	WHITE 6" LINE
⑤	WHITE 6" SKIP DASH (2' SKIP, 6' DASH)
⑥	WHITE 10" LINE (@ 45°, 5' MIN)
⑦	YELLOW 12" LINE (@ 45°, 55' C-C, 5' MIN)
⑧	WHITE 24" LINE
⑨	WHITE 12" LINE (@ 45°, 2' E-E)
⑩	LETTERS AND SYMBOLS

"EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING."



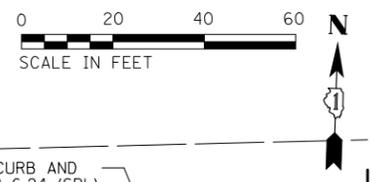
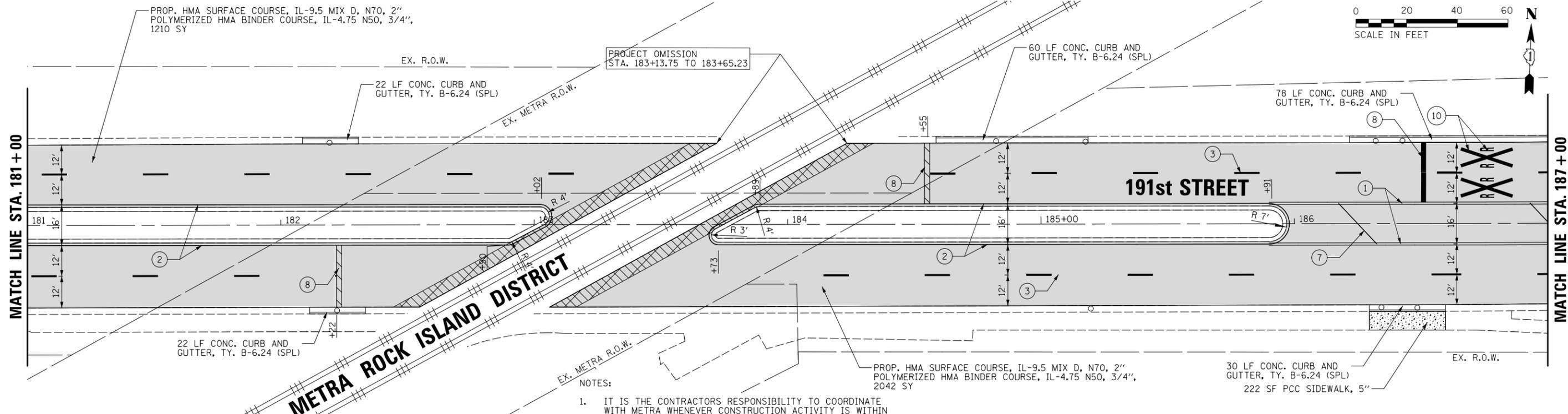
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN
191st STREET**

SCALE: 20' SHEET 7 OF 26 SHEETS STA. 158+50 TO STA. 170+50

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	26
CONTRACT NO. 61J78			ILLINOIS FED. AID PROJECT	



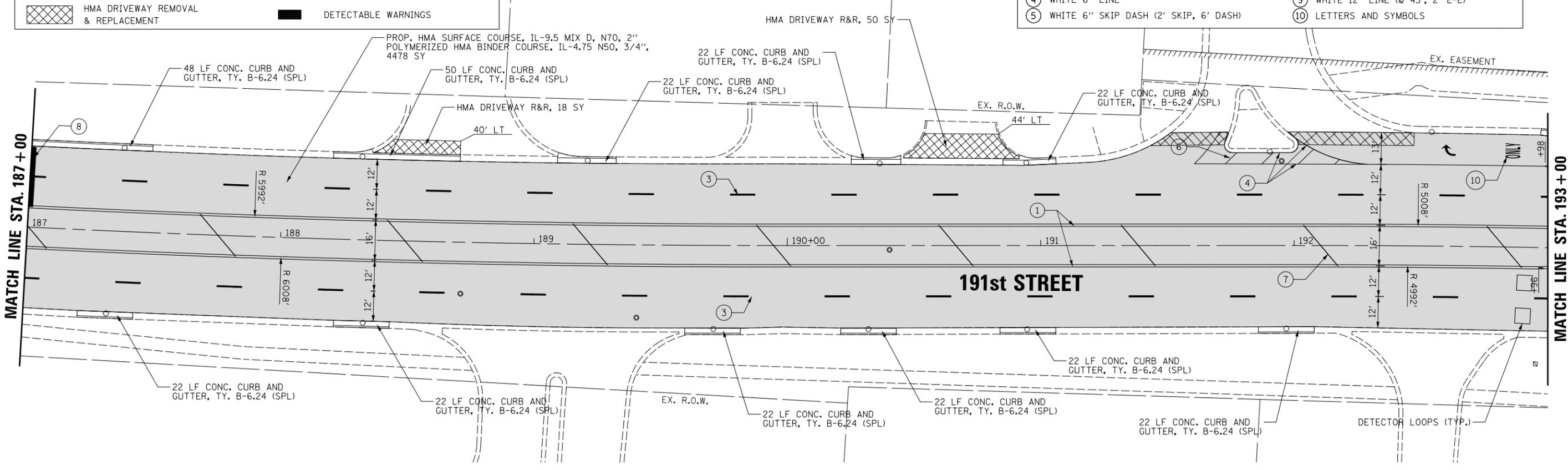
PROPOSED LEGEND

	HMA RESURFACING (SEE TYPICAL SECTIONS)		COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24 (SPECIAL)
	BUTT JOINT		PCC SIDEWALK 5 INCH
	HMA DRIVEWAY REMOVAL & REPLACEMENT		DETECTABLE WARNINGS

- NOTES:**
- IT IS THE CONTRACTORS RESPONSIBILITY TO COORDINATE WITH METRA WHENEVER CONSTRUCTION ACTIVITY IS WITHIN 25 FEET OF THE RAILROAD R.O.W.
 - EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING.

PROPOSED THERMOPLASTIC PAVEMENT MARKING LEGEND

①	YELLOW 4" DOUBLE SOLID LINES @ 11" C-C	⑥	WHITE 10" LINE (@ 45°, 5 MIN)
②	YELLOW 4" LINE	⑦	YELLOW 12" LINE (@ 45°, 55' C-C, 5 MIN)
③	WHITE 4" DASH LINE (10' LINE, 30' SPACE)	⑧	WHITE 24" LINE
④	WHITE 6" LINE	⑨	WHITE 12" LINE (@ 45°, 2' E-E)
⑤	WHITE 6" SKIP DASH (2' SKIP, 6' DASH)	⑩	LETTERS AND SYMBOLS



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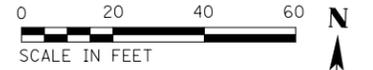
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN
191st STREET**

SCALE: 20' SHEET 9 OF 11 SHEETS STA. 181+00 TO STA. 193+00

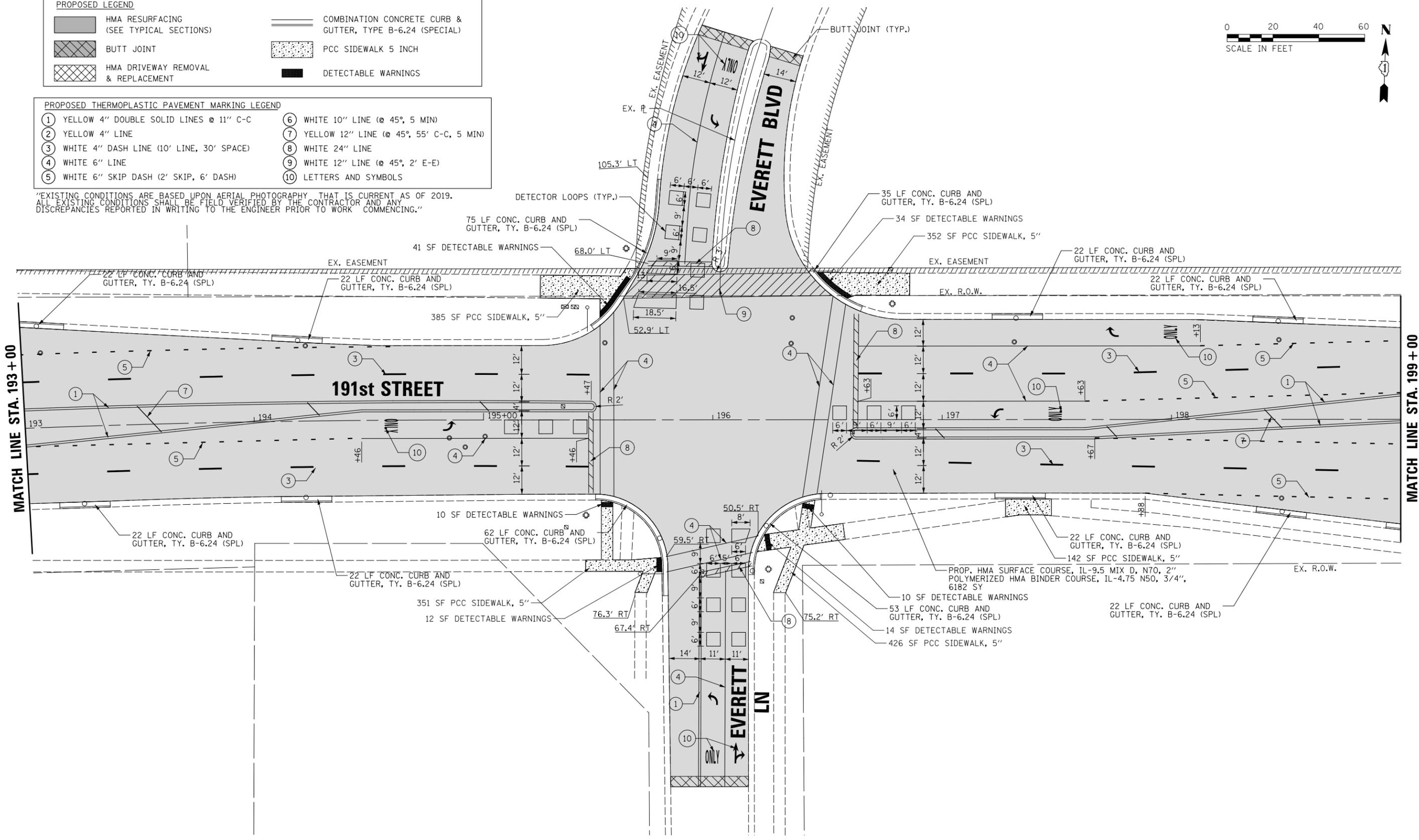
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3754	21-00034-00-R5	WILL	41	28
CONTRACT NO. 61J78			ILLINOIS FED. AID PROJECT	

PROPOSED LEGEND	
	HMA RESURFACING (SEE TYPICAL SECTIONS)
	BUTT JOINT
	HMA DRIVEWAY REMOVAL & REPLACEMENT
	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24 (SPECIAL)
	PCC SIDEWALK 5 INCH
	DETECTABLE WARNINGS



PROPOSED THERMOPLASTIC PAVEMENT MARKING LEGEND	
① YELLOW 4" DOUBLE SOLID LINES @ 11" C-C	⑥ WHITE 10" LINE (@ 45°, 5 MIN)
② YELLOW 4" LINE	⑦ YELLOW 12" LINE (@ 45°, 55' C-C, 5 MIN)
③ WHITE 4" DASH LINE (10' LINE, 30' SPACE)	⑧ WHITE 24" LINE
④ WHITE 6" LINE	⑨ WHITE 12" LINE (@ 45°, 2' E-E)
⑤ WHITE 6" SKIP DASH (2' SKIP, 6' DASH)	⑩ LETTERS AND SYMBOLS

"EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING."



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PLOT DATE = 8/31/2023	DATE -		REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

PROPOSED PLAN	
191st STREET	
SCALE: 20'	SHEET 10 OF 11 SHEETS
STA. 193+00	TO STA. 199+00

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	29
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J78	



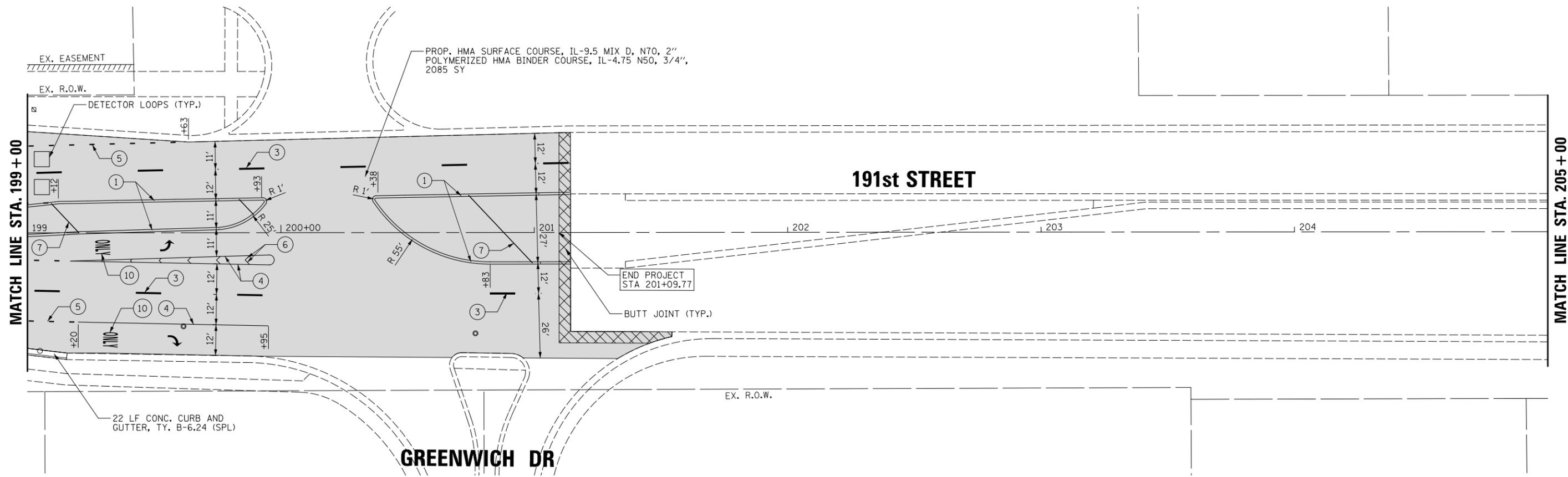
PROPOSED THERMOPLASTIC PAVEMENT MARKING LEGEND

① YELLOW 4" DOUBLE SOLID LINES @ 11" C-C	⑥ WHITE 10" LINE (@ 45°, 5 MIN)
② YELLOW 4" LINE	⑦ YELLOW 12" LINE (@ 45°, 55' C-C, 5 MIN)
③ WHITE 4" DASH LINE (10' LINE, 30' SPACE)	⑧ WHITE 24" LINE
④ WHITE 6" LINE	⑨ WHITE 12" LINE (@ 45°, 2' E-E)
⑤ WHITE 6" SKIP DASH (2' SKIP, 6' DASH)	⑩ LETTERS AND SYMBOLS

PROPOSED LEGEND

HMA RESURFACING (SEE TYPICAL SECTIONS)	COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.24 (SPECIAL)
BUTT JOINT	PCC SIDEWALK 5 INCH
HMA DRIVEWAY REMOVAL & REPLACEMENT	DETECTABLE WARNINGS

"EXISTING CONDITIONS ARE BASED UPON AERIAL PHOTOGRAPHY THAT IS CURRENT AS OF 2019. ALL EXISTING CONDITIONS SHALL BE FIELD VERIFIED BY THE CONTRACTOR AND ANY DISCREPANCIES REPORTED IN WRITING TO THE ENGINEER PRIOR TO WORK COMMENCING."



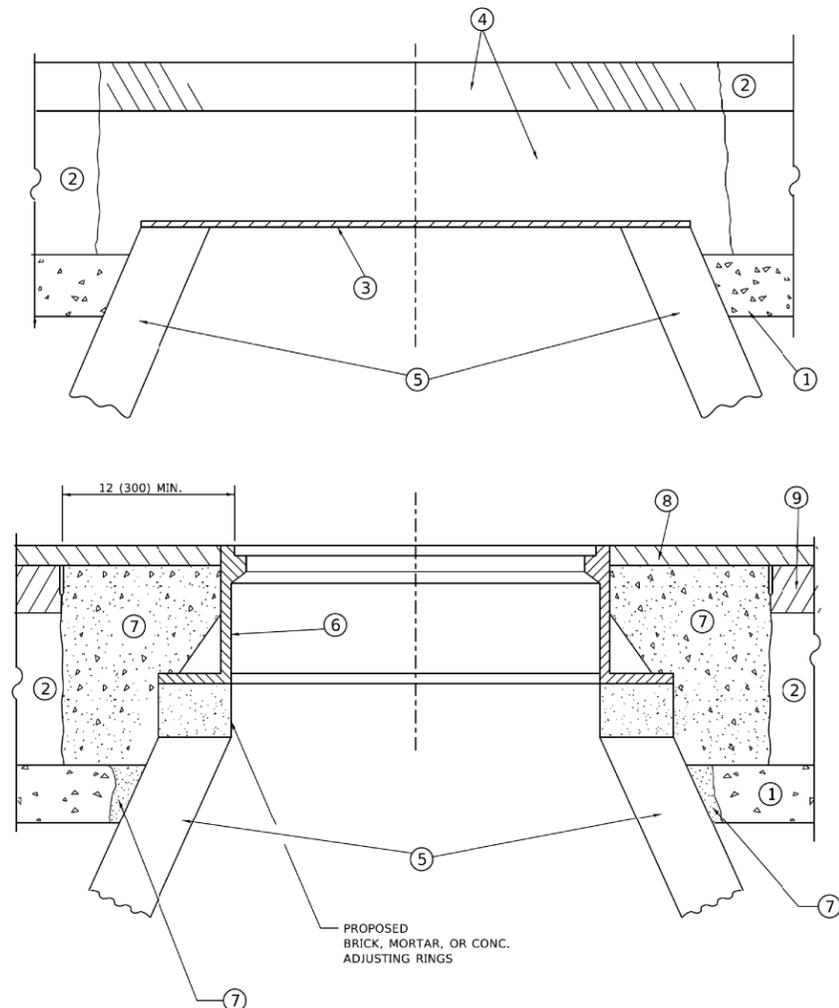
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	PLOT DATE = 8/31/2023	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROPOSED PLAN
191st STREET**

SCALE: 20' SHEET 11 OF 11 SHEETS STA. 199+00 TO STA. 201+14.27

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	30
CONTRACT NO. 61J78			ILLINOIS FED. AID PROJECT	



DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

NOTES

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

CONSTRUCTION PROCEDURES

- STAGE 1 (BEFORE PAVEMENT MILLING)**
- REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM AROUND THE STRUCTURE.
 - REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
 - COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE.
 - BACKFILL WITH CRUSHED STONE AND HMA SURFACE MIX APPROVED BY THE ENGINEER. (MIN. 1 1/2 (40) HMA TO REMAIN AFTER MILLING).
- STAGE 2 (AFTER PAVEMENT MILLING)**
- REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
 - INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
 - THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS*PP-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

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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PLOT DATE = 11/18/2022	DATE - 10-25-94	REVISED - K. SMITH 11-18-22

**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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			BD600-03 (BD-08)		CONTRACT NO.		
			ILLINOIS FED. AID PROJECT				

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Default		CHECKED - AJS	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE DETAILS

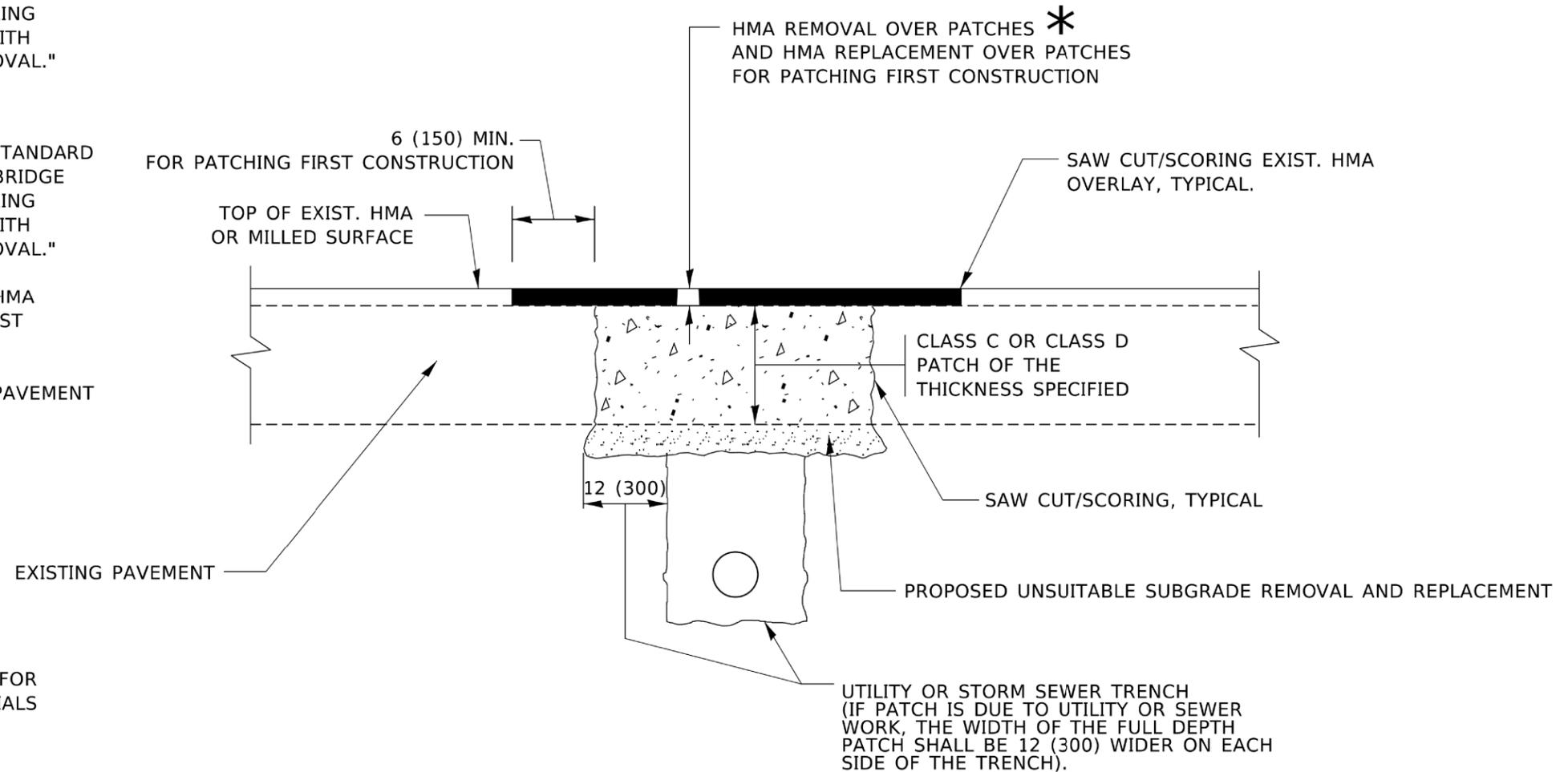
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			3754	21-00034-00-RS	WILL	41	31
			CONTRACT NO. 61J78				
			ILLINOIS FED. AID PROJECT				

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.



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)

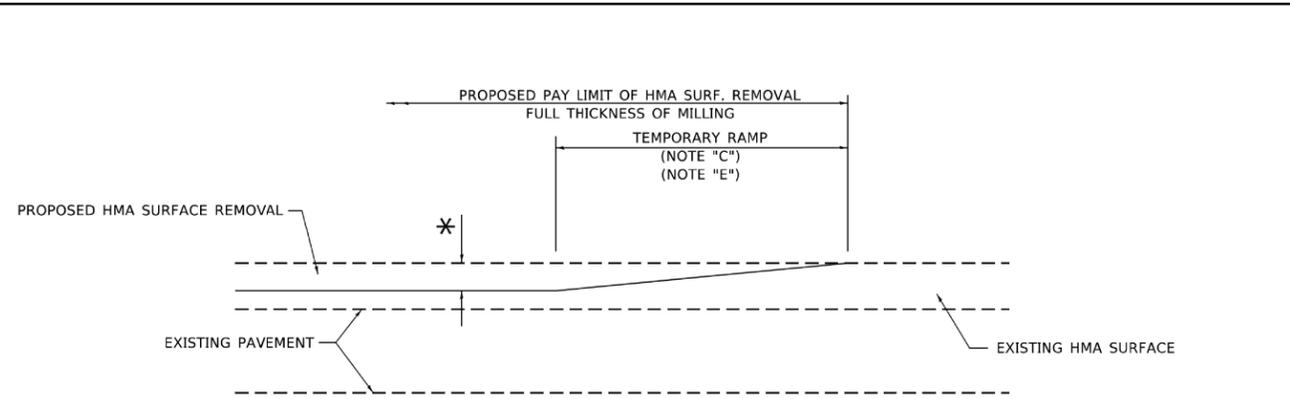
1. MILL HMA FIRST IF THERE IS AT LEAST 4½ INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

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

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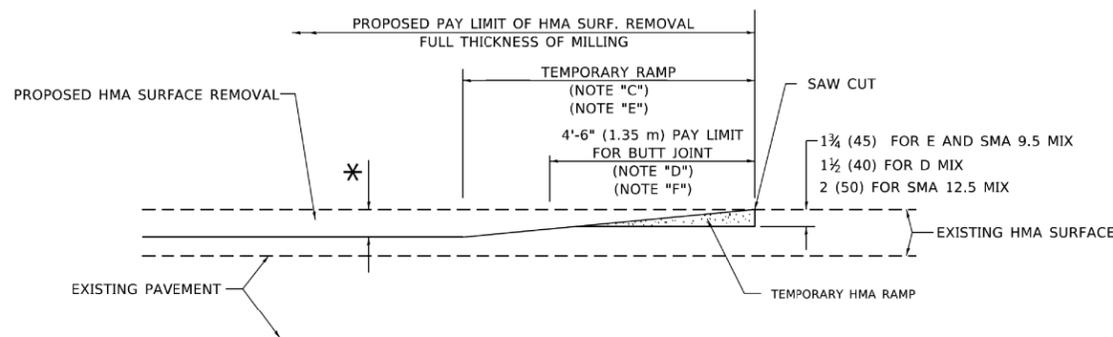
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Default	PLOT SCALE = 34'	CHECKED - AJS	REVISED -		SCALE: N.T.S.		SHEET OF SHEETS		CONTRACT NO. 61J78		
	PLOT DATE = 8/31/2023	DATE -	REVISED -		SCALE: N.T.S.		SHEET OF SHEETS		CONTRACT NO. 61J78		



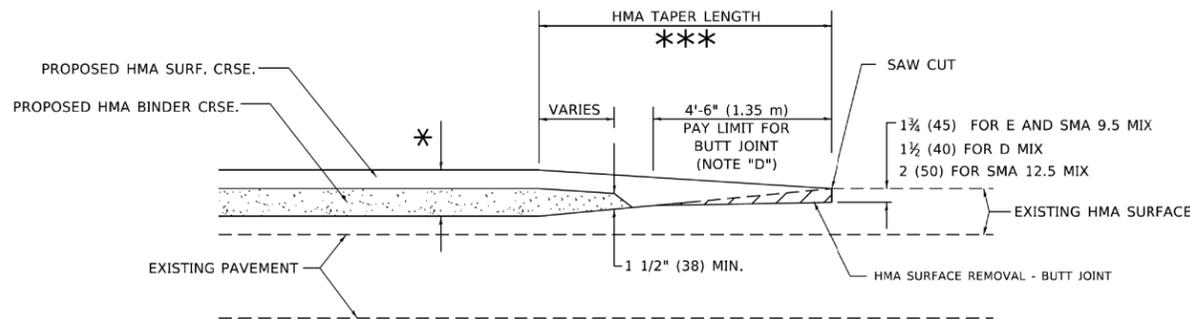
MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1



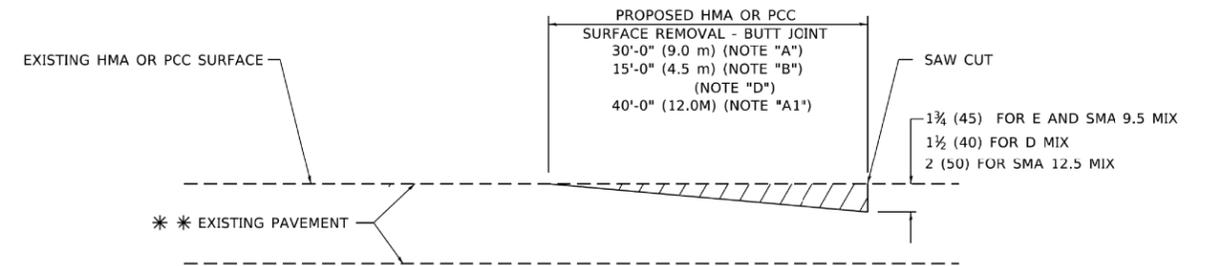
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2
TYPICAL TEMPORARY RAMP

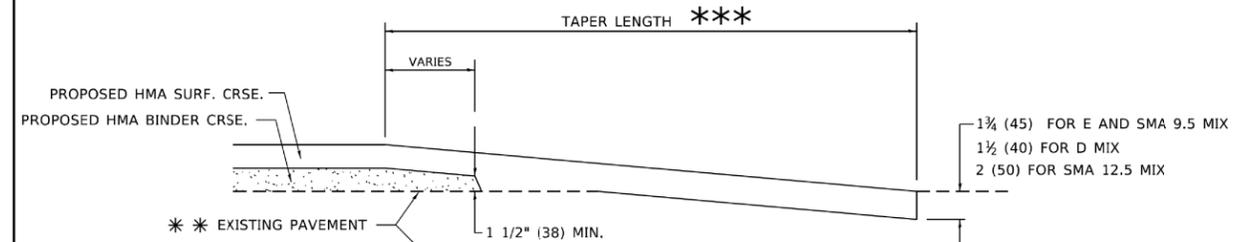


BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

GENERAL NOTES

- A. MAINLINE ARTERIAL ROADWAYS AND MAJOR SIDE ROADS.
- A1. INTERSTATES
- B. MINOR SIDE ROADS.
- C. THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D. THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E. TAPER THE TEMP. RAMP AT A RATE OF 3' - 4" (1.02m) PER 1 INCH (25 mm) OF MILLING THICKNESS.
* SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- F. SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL - BUTT JOINT".
*** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT

- 1. THE BUTT JOINT WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER SQUARE YARD (SQUARE METER) FOR "HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT" OR FOR "PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT".
- 2. THE TEMPORARY RAMP AND SAW CUT SHALL BE INCLUDED IN THE UNIT COST FOR HMA OR PCC SURFACE REMOVAL-BUTT JOINT.

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

MODEL: D:\enr\...
FILE NAME: ...

USER NAME = Lawrence,DeManche	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 = 11/18/2022	DATE - 06-13-90	REVISED - K. SMITH 11-18-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

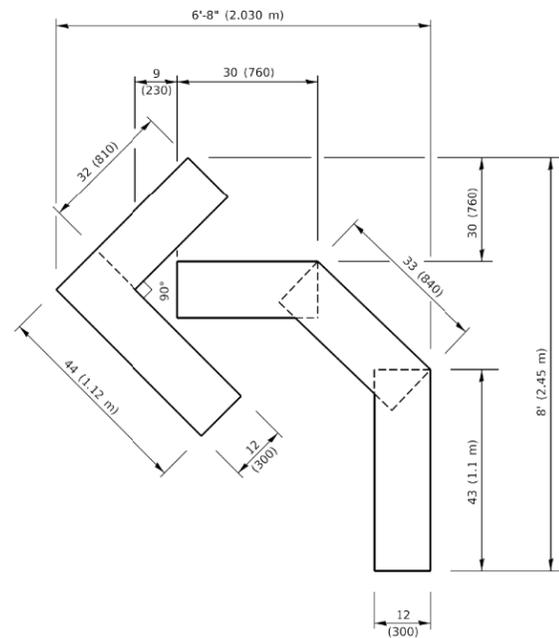
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SCALE: NONE			SHEET 1 OF 1 SHEETS	STA. TO STA.
ILLINOIS FED. AID PROJECT				

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		DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

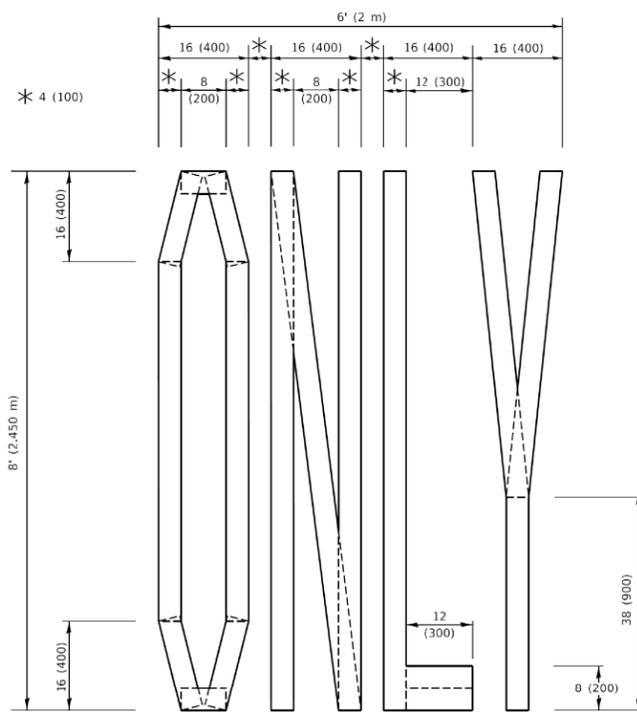
DISTRICT ONE DETAILS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-RS	WILL	41	34
SCALE: N.T.S.			SHEET OF SHEETS	STA. TO STA.
ILLINOIS FED. AID PROJECT				



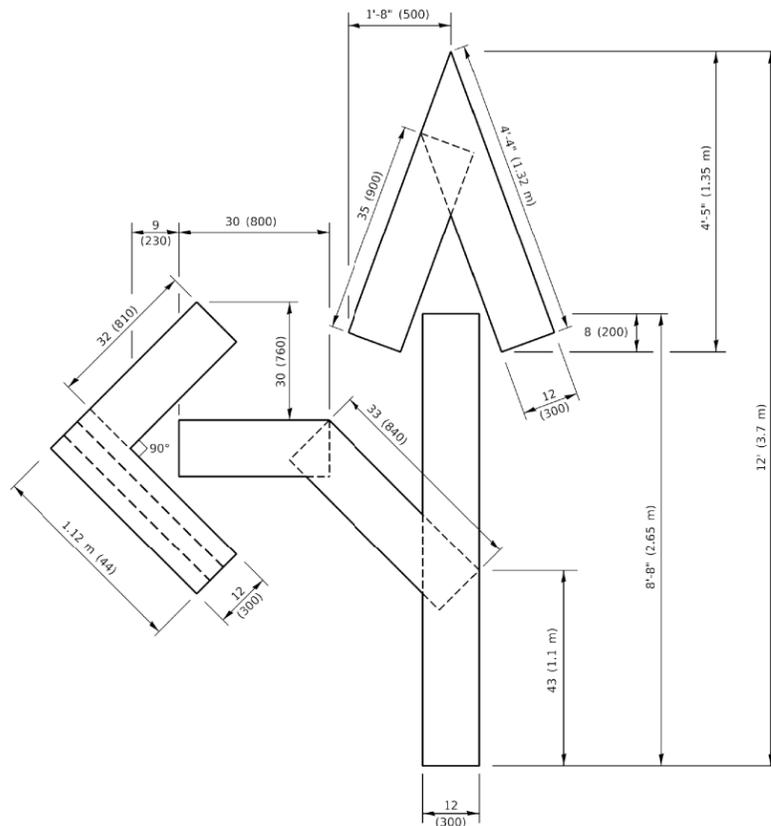
QUANTITY

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



QUANTITY

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

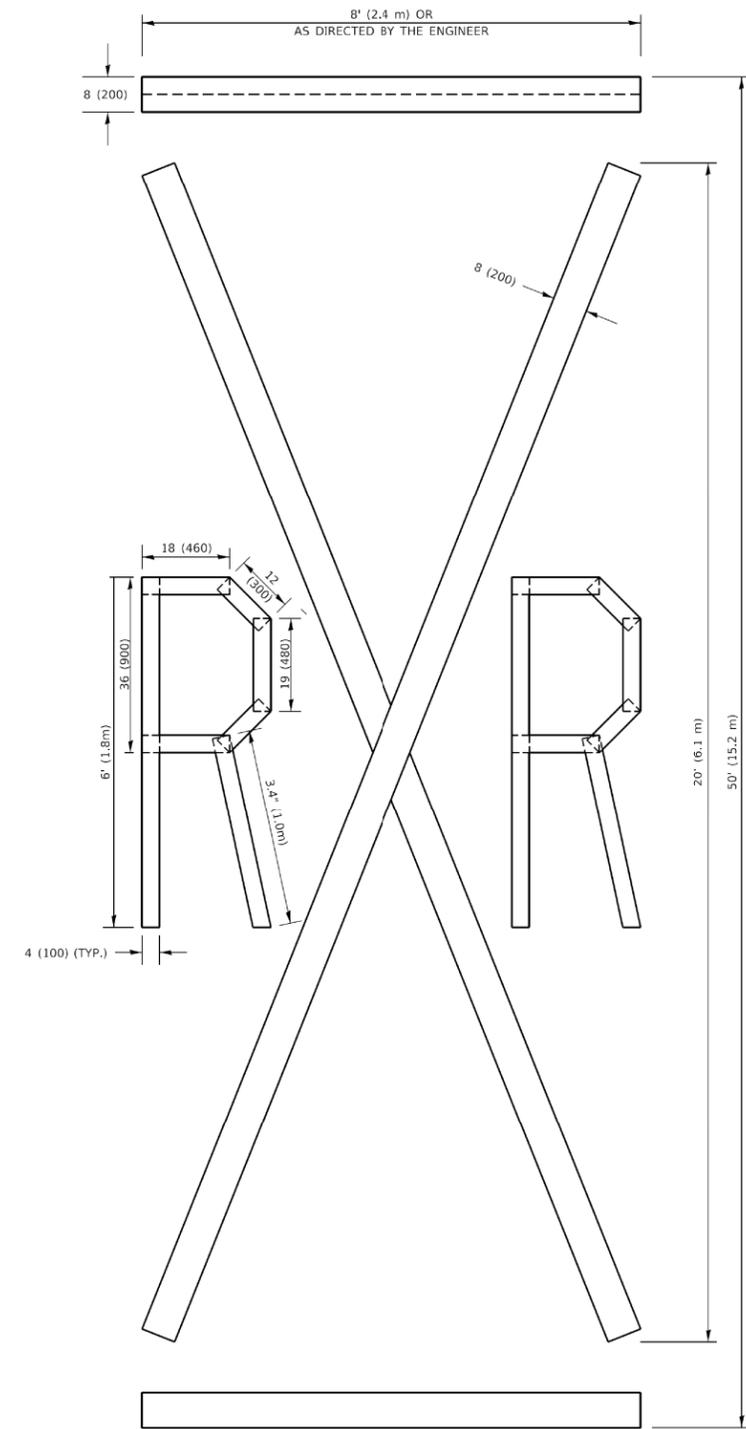


QUANTITY

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

NOTE:

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



QUANTITY

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

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

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PLCT SCALE = 50.0068 ' / in.	DRAWN -	REVISED - E. GOMEZ 08-28-00
PLCT DATE = 3/4/2019	CHECKED -	REVISED - E. GOMEZ 08-28-00
	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

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

FILE NAME =

USER NAME = aschoefer	DESIGNED - GR	REVISED -
PLCT SCALE = 34'	DRAWN - ELA	REVISED -
PLCT DATE = 8/31/2023	CHECKED - AJS	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

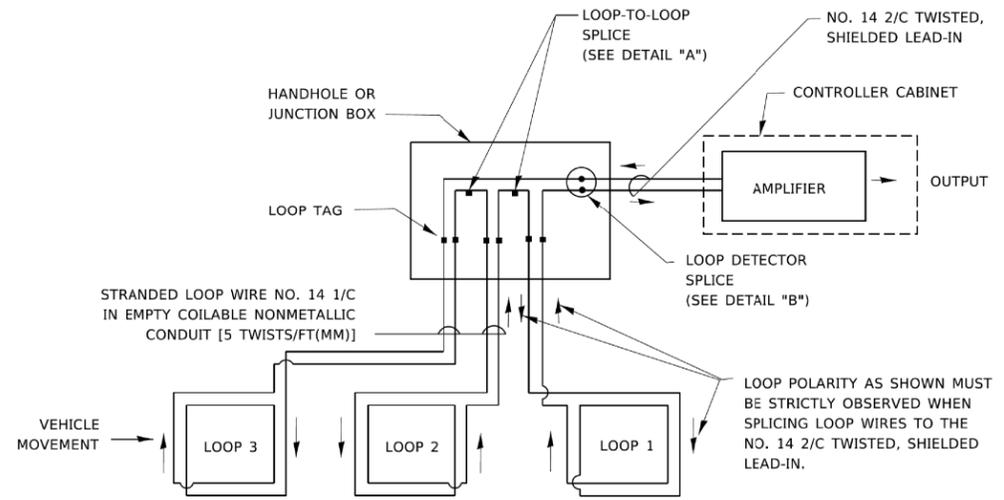
DISTRICT ONE DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-RS	WILL	41	38
CONTRACT NO.			61J78	
ILLINOIS FED. AID PROJECT				

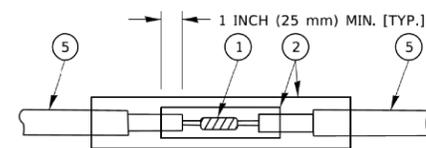
LOOP DETECTOR NOTES

- EACH PAIR OF LOOP WIRES SHALL BE PLACED IN A SEPARATE EMPTY COILABLE NONMETALLIC CONDUIT FROM THE EDGE OF PAVEMENT TO THE HANDHOLE. SPACING BETWEEN THE HOLES DRILLED IN THE PAVEMENT SHALL NOT BE LESS THAN 6" (150 mm). EMPTY COILABLE NONMETALLIC CONDUIT SHALL BE INCLUDED IN THE COST OF THE LOOP WIRE.
- THE NUMBER OF LOOP TURNS SHALL BE AS RECOMMENDED BY THE AMPLIFIER MANUFACTURER. ALL ADJACENT SIDES OF THE LOOPS SHALL BE INSTALLED IN SUCH A WAY THAT THE CURRENT FLOW IS IN THE SAME DIRECTION TO REINFORCE ITS MAGNETIC FIELDS FOR SMALL VEHICLE DETECTION.
- EACH LOOP LEAD-IN SHALL BE IDENTIFIED AND PERMANENTLY TAGGED IN THE HANDHOLE. EACH LEAD-IN CABLE TAG SHALL INDICATE THE LOCATION OF THE LOOP, LOOP ROTATION (CLOCKWISE/COUNTERCLOCKWISE), LOOP LEAD-IN DIRECTION (IN OR OUT), LOOP CABLE NUMBER AND LOCATION IN CABINET, AND NUMBER OF TURNS IN THE DETECTOR LOOPS IN WATER PROOF INK AS INDICATED ON THE DISTRICT 1 STANDARD TRAFFIC SIGNAL DESIGN DETAIL. THE CONTRACTOR SHALL MARK LOOP LOCATIONS ON RECORD DRAWINGS AND PRESENT TO THE ENGINEER AFTER FINAL INSPECTION. LOOPS SHALL BE MARKED BY LANE AND LOOP NUMBER. SEE DETAIL BELOW.
- ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
- IN ASPHALT PAVEMENT, LOOPS SHOULD BE PLACED IN THE BINDER AND DIVESHOLES MARKED AT THE CURB WITH A SAW-CUT. THE SAW-CUT SHALL BE CUT IN ACCORDANCE WITH LOCAL AND E.P.A. DUST CONTROL REQUIREMENTS. DETECTOR LOOP(S) SHALL NOT BE INSTALLED IN WET CONDITIONS AND THE SAW-CUTS MUST BE FREE OF DEBRIS AND RESIDUE SUCH AS DUST AND WATER WHICH IS TO BE ACHIEVED BY THE USE OF COMPRESSED AIR, WIRE BRUSHING AND HEAT DRYING ACCORDING TO SEALANT MANUFACTURER REQUIREMENTS. THE DETECTOR WIRE SHALL BE HELD IN PLACE BY THE USE OF FORM WEDGES. WEDGES SHALL BE SPACED NO MORE THAN 18" (450 mm) APART.
- LOOP SPLICES SHALL BE SOLDERED USING A SOLDERING IRON. BLOW TORCHES OR OTHER DEVICES WHICH OXIDIZE COPPER CABLE SHALL NOT BE ALLOWED FOR SOLDERING OPERATIONS. SEE DETAIL BELOW RIGHT.
- PREFORMED DETECTOR LOOPS SHALL BE USED, AS SHOWN ON THE PLANS, WHERE NEW CONCRETE PAVEMENT IS PROPOSED. THE INSTALLATION OF PREFORMED LOOPS SHALL BE IN ACCORDANCE WITH THE DISTRICT 1 SPECIFICATIONS OR AS DIRECTED BY THE ENGINEER.

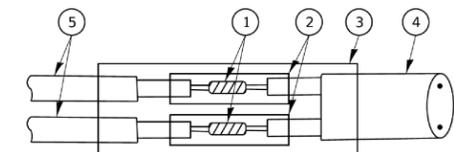


DETECTOR LOOP WIRING SCHEMATIC

- LOOPS SHALL BE SPLICED IN SERIES. SAW-CUTS SHALL BE A MINIMUM WIDTH OF 5/16" (8 mm).
- SAW-CUT DEPTHS SHALL BE 3" (75 mm). IF IN CONCRETE,
- THE SAW-CUT DEPTH SHALL BE TO THE TOP OF THE REINFORCEMENT.
- LOOP CORNERS SHALL BE DRILLED WITH A 2" (50 mm) DIAMETER CORE.

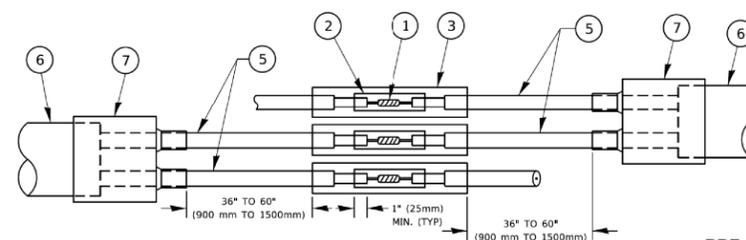


DETAIL "A"
LOOP-TO-LOOP SPLICE

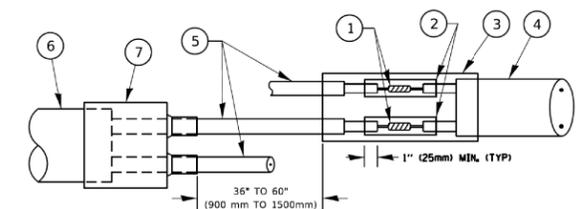


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



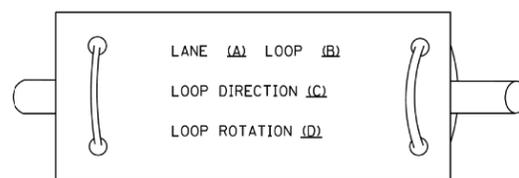
DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

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

LOOP LEAD-IN CABLE TAG



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

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PLOT DATE = 3/4/2019	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

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

FILE NAME =	USER NAME = aschaefer	DESIGNED - GR	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

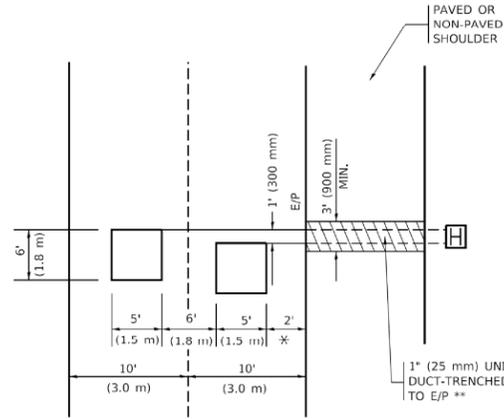
DISTRICT ONE DETAILS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	40
			CONTRACT NO. 61J78	
ILLINOIS FED. AID PROJECT				

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

LOOPS NEXT TO SHOULDERS

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



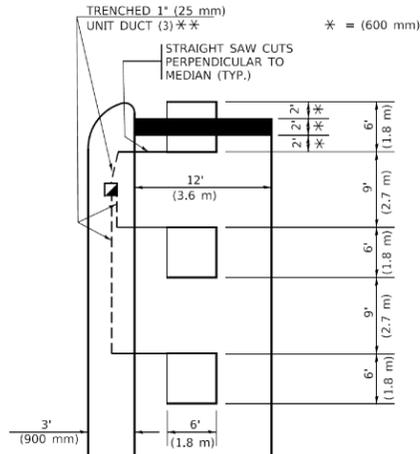
* = (600 mm)

** 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.

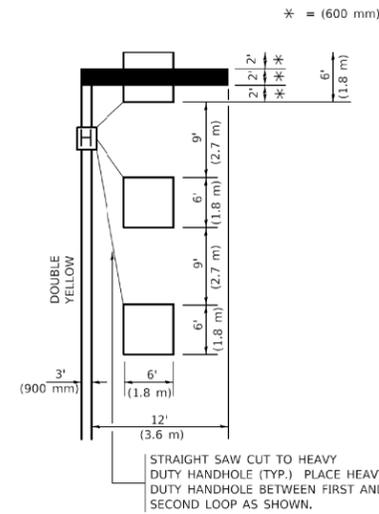


** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

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

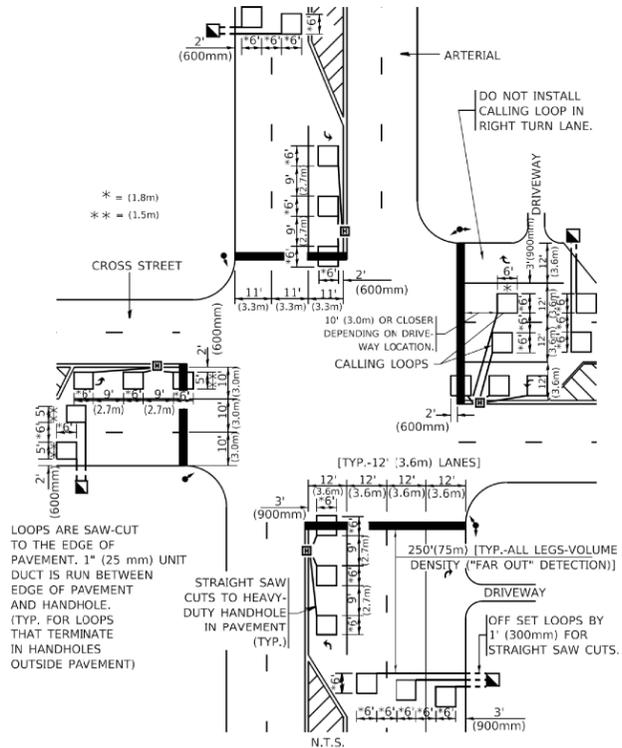
LEFT TURN LANES WITHOUT MEDIANS

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



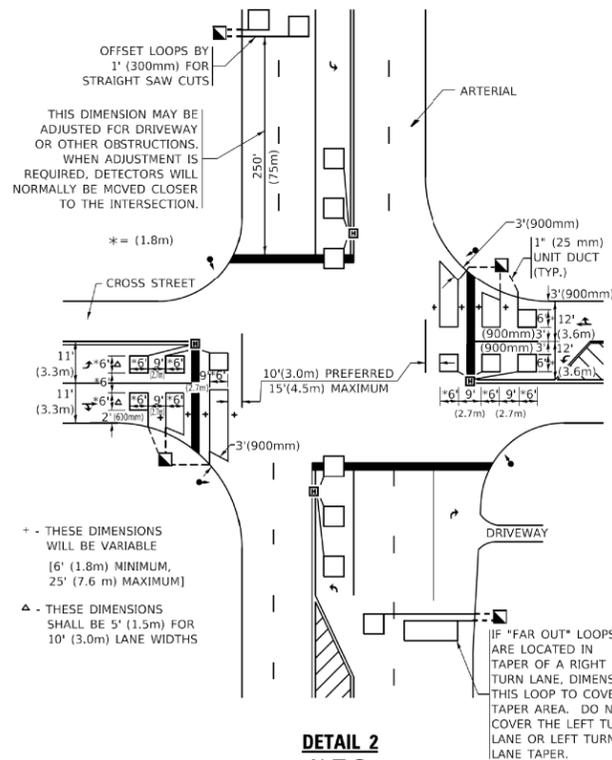
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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 FIRST SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATELY. 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.

MOOREL D:\a\h\... PROJECTS\DISTRICT 1\PROJECTS\DISTRICT 1\CAD\DATA\CAD\SHETS\SD1.DWG

USER NAME = footemj	DESIGNED -	REVISED -
PLOT SCALE = 50,0000 ' / in.	CHECKED - R.K.F.	REVISED -
PLOT DATE = 3/4/2019	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

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

FILE NAME =	USER NAME = aschaefer	DESIGNED - GR	REVISED -
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Default		CHECKED - AJS	REVISED -
		DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE DETAILS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
3754	21-00034-00-R5	WILL	41	41
		CONTRACT NO. 61J78		
ILLINOIS FED. AID PROJECT				