

11/18/2022 LETTING ITEM 087

FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

FUNCTIONAL CLASSIFICATION
MAJOR COLLECTOR
ADT (2018) = 16,500

ROADWAY **POSTED SPEED** **DESIGN SPEED**
94TH AVE (FAU 1686) 35 MPH 40 MPH

STATE OF ILLINOIS


DEPARTMENT OF TRANSPORTATION

PLANS FOR PROPOSED FEDERAL-AID HIGHWAY

FAU ROUTE 1686 (94TH AVENUE)
FROM NORTH OF US 6 (159TH STREET) TO 151ST STREET
ROADWAY IMPROVEMENTS
SECTION 19-00086-00-RS
PROJECT NO. RQFB(728)
VILLAGE OF ORLAND PARK
COOK COUNTY
C-91-170-21

END PROJECT
STA. 152+92.36

J.U.L.I.E.
JOINT
UTILITY
LOCATION
INFORMATION FOR
EXCAVATION
CALL 811



Know what's below.
Call before you dig.



FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD
ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT

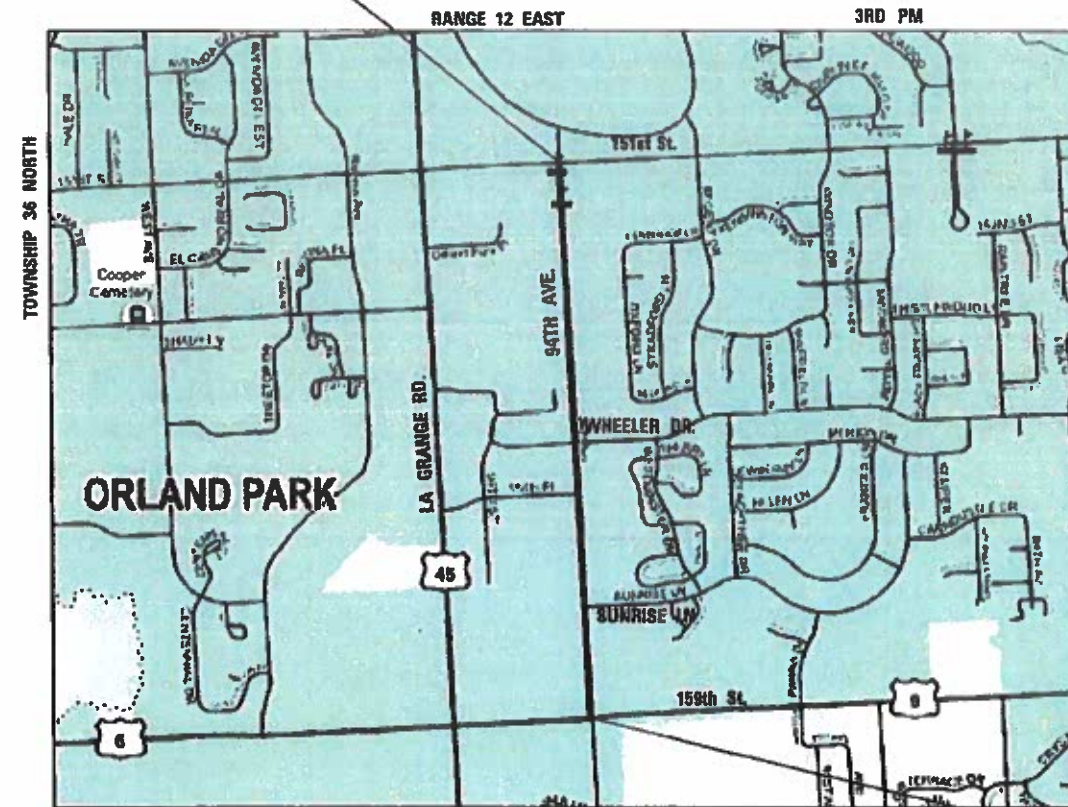
ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



323 ALANA DRIVE | NEW LENOX, ILLINOIS 60451
Phone: 615.462.9324 | Toll Free: 800.726.7905 | Fax: 615.462.9326 | HRGreen.com
ILLINOIS PROFESSIONAL DESIGN FIRM #164-001322

CONTRACT NO. 61J00

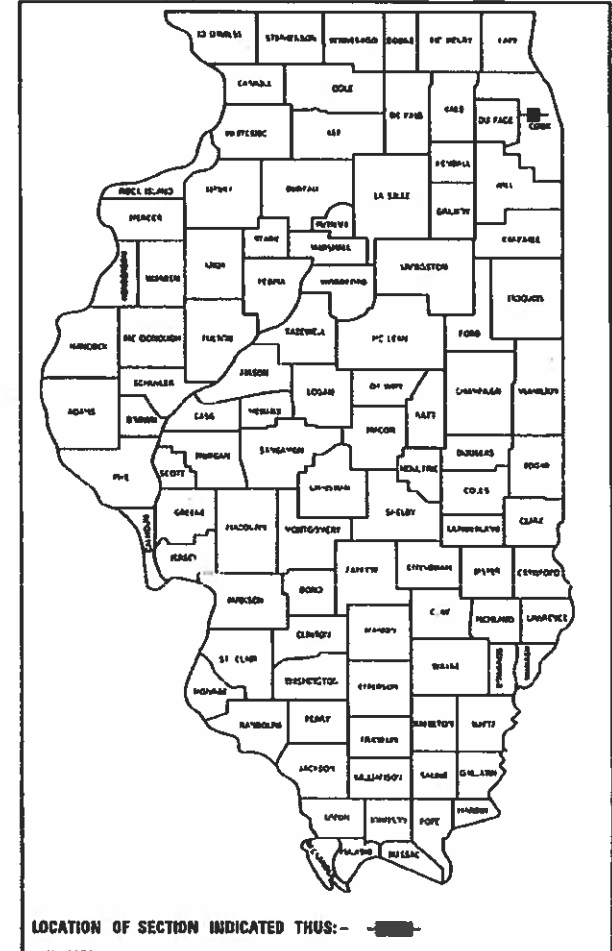


ORLAND TOWNSHIP LOCATION MAP
N.T.S.

GROSS AND NET LENGTH = 5,254 FT. = 0.99 MILE

BEGIN PROJECT
STA. 100+37.61

F.A.U. ATE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1686	19-00086-00-RS	COOK	32	1
ILLINOIS CONTRACT NO. 61J00				



STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

VILLAGE OF ORLAND PARK

APPROVED SEPT 9 20 22
Paul W. VanRosen
DIRECTOR OF PUBLIC WORKS

PASSED 9-13 20 22
Paul Rios
DISTRICT ONE ENGINEER OF LOCAL ROADS AND STREET

RELEASING FOR BID
BASED ON LIMITED REVIEW SEPT. 13 20 22
Paul Rios
REGIONAL ENGINEER



THOMAS S. CRESS, P.E.
NO. 082-047669
EXPIRES: 11/30/23
HR GREEN, INC.

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OF THE STATE OF ILLINOIS

NO. PROJECT NO. 20872
PREPARED BY: HRGreen
DATE: 08/08/2022
DRAWN BY: J. J. J. J.
CHECKED BY: J. J. J. J.
SCALE: AS SHOWN

INDEX OF SHEETS

1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, AND UTILITY CONTACTS
3	GENERAL NOTES
4	SUMMARY OF QUANTITIES
5	TYPICAL SECTIONS
6	SCHEDULE OF QUANTITIES
7	ALIGNMENT AND TIES
8-9	ROADWAY PLANS 94TH AVENUE
10-15	SUGGESTED MAINTENANCE OF TRAFFIC
16-17	PAVEMENT MARKING PLANS
18-22	DETECTOR LOOP REPLACEMENT
23-32	DISTRICT ONE DETAILS

HIGHWAY STANDARDS

000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
280001-07	TEMPORARY EROSION CONTROL SYSTEMS
442201-03	CLASS C AND D PATCHES
606001-08	CONCRETE CURB TYPE B AND COMBINATION CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE 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

DISTRICT ONE DETAILS

<u>STANDARD NO.</u>	<u>DESCRIPTION</u>
BD-08	DETAILS FOR 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-13	DISTRICT ONE TYPICAL PAVEMENT MARKINGS
TC-22	ARTERIAL ROAD INFORMATION SIGN
TC-26	DRIVEWAY ENTRANCE SIGNING
TS-05	STANDARD TRAFFIC SIGNAL DESIGN DETAILS
TS-07	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

UTILITY CONTACTS

AT&T DISTRIBUTION	JANET AHERN	630-573-6414
COMED	CONNOR AUSTELL	630-576-7094
COMCAST	MARTHA GIERAS	224-229-5862
MCI	TYLER HELLER	469-886-4238
G4S TECHNOLOGY LLC	DOUG GONES	630-343-2826
METROPOLITAN WTR REC DIST CHI	HANIF MUNSHI	312-751-3184
NICOR GAS	CHARLES M. PARROTT	630-388-2362
VILLAGE OF ORLAND PARK	KHURSHID HODA	708-403-5300
ORLAND SCHOOL DIST. 135	CHRIS BOHULA	708-364-3362
PRAXAIR	KENNY DIEGO	224-246-7794
ENTERPRIS PROD. OPERATING, LL	RIKI PARKS	877-243-2255

HRG PROJECT NO: 20072
 HRG PROJ CONTACT:
 FILE NAME: 80400-S17-02-index.dgn
 PEN TABLE: 1/10/2022
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PLOT DATE = 9/7/2022	DATE - 9/7/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS,
AND UTILITY CONTACTS**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	2
CONTRACT NO.			61100	
ILLINOIS		FED. AID PROJECT		

GENERAL NOTES

GENERAL

1. THE CONTRACTOR SHALL NOTIFY THE VILLAGE OF ORLAND PARK AND THE RESIDENTS WITHIN THE PROJECT LIMITS A MINIMUM OF 48 HOURS PRIOR TO THE START OF CONSTRUCTION.
2. DURING CONSTRUCTION, THE CONTRACTOR SHALL PROVIDE ACCESS TO ALL ABUTTING PROPERTIES, EXCEPT FOR PERIODS OF SHORT DURATION AS APPROVED BY THE ENGINEER. ANY ROADWAY OR ACCESS CLOSURES SHALL ONLY TAKE PLACE BETWEEN THE HOURS OF 7:00 A.M. AND 3:00 P.M. THE VILLAGE OF ORLAND PARK SHALL BE NOTIFIED 24 HOURS IN ADVANCE OF ANY CLOSURES.
3. ALL TRENCHES SHALL BE BACKFILLED OR COVERED AT THE END OF EACH DAY OF CONSTRUCTION.
4. GAS MAIN LOCATION BASED ON NICOR PROVIDED UTILITY ATLAS AND ASSUMED 30" COVER. EXACT LOCATION SHALL BE VERIFIED IN THE FIELD.
5. CLASS D PATCHES, 6" MAY BE REQUIRED AS DETERMINED IN THE FIELD BY THE ENGINEER.
6. CURB REMOVAL AND REPLACEMENT MAY BE REQUIRED AS DETERMINED IN THE FIELD BY THE ENGINEER.
7. SODDING, SPECIAL IS SHOWN ON THE PLANS FOR SIDEWALK REMOVAL AND CURB REMOVAL AND REPLACEMENT. SEE PROJECT SPECIAL PROVISIONS FOR SODDING (SPECIAL) COMPENSATION. RESTORATION QUANTITIES ASSOCIATED WITH THE ABOVE MENTIONED ITEM IS INCLUDED IN THE SCHEDULE OF QUANTITIES HEREIN.
8. ALL OFFSET LOCATIONS GIVEN ON THE DETAILED PLANS FOR STRUCTURES, FITTINGS, ETC., ARE FROM THE CENTERLINE OF THE EXISTING ROADWAY, AS SHOWN ON THESE PLANS.
9. ALL ELEVATIONS ARE ON U.S.G.S. DATUM. (NAVD 88).
10. "PRIVATE UTILITIES" SUCH AS SPRINKLER SYSTEMS, PRIVATE LIGHTING, AND HEAT TUBING FOR DRIVEWAYS SHALL BE RELOCATED AND RECONNECTED AS REQUIRED FOR PROPOSED CONSTRUCTION. THIS WORK SHALL BE INCLUDED IN CONTRACT UNIT PRICE BID OF THE PROPOSED IMPROVEMENT ITEM AFFECTING "PRIVATE UTILITY"
11. TWO WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS ON IDOT ARTERIAL ROADS, THE ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD TECHNICIAN AT PATRICE.HARRIS@ILLINOIS.GOV.
12. THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF THE BEGINNING OF WORK.

SEDIMENT AND EROSION CONTROL

1. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO PROPERLY CONTROL EROSION ON THE JOB SITE THROUGH THE USE OF SILTATION PONDS, FILTER FABRICS, ETC. ANY SILTATION OF CONDUITS, STRUCTURES, OR DITCHES SHALL BE CLEANED AND MAINTAINED BY THE CONTRACTOR UNTIL ANY SEEDING AND/OR SODDING HAS TAKEN HOLD. ALL WASHOUTS, GULLIES, ETC. WILL BE REGRADED AND RESODDED BY THE CONTRACTOR.
2. FOR ALL DRAINAGE STRUCTURES IN THE DISTURBED AREAS, INLET FILTERS SHALL BE PLACED BETWEEN FRAME AND GRATE AND MAINTAINED BY THE CONTRACTOR UNTIL VEGETATION IS ESTABLISHED, AS DETERMINED BY THE ENGINEER.
3. THE CONTRACTOR'S RESPONSIBILITY FOR EROSION CONTROL SHALL EXTEND THROUGHOUT THE CONSTRUCTION PROCESS. THE CONTRACTOR SHALL BE RESPONSIBLE FOR CLEANUP OF PAVED SURFACES DAILY WITHIN AND OUTSIDE OF THE PROJECT CAUSED BY THE CONTRACTOR.
4. EROSION CONTROL STRUCTURES MUST BE INSPECTED WEEKLY AND AFTER EVERY STORM OF ONE HALF INCH (1/2") OF RAINFALL OR GREATER, BY THE CONTRACTOR. AN INSPECTION REPORT MUST BE SUBMITTED BY THE CONTRACTOR TO THE VILLAGE FOLLOWING EACH INSPECTION. ANY REPAIRS OR REPLACEMENT NEEDED TO ENSURE ADEQUATE EROSION CONTROL MUST BE MADE IMMEDIATELY.
5. ALL DISTURBED AREAS ARE TO BE GRADED TO EXISTING CONTOURS AND TO PROVIDE POSITIVE DRAINAGE TO EXISTING DRAINAGE STRUCTURES UNLESS OTHERWISE NOTED ON PLANS.

LANDSCAPING

1. LANDSCAPING INCLUDING, BUT NOT LIMITED TO TREES, SHRUBS, BUSHES, RETAINING WALLS, DECORATIVE LANDSCAPING ITEMS, ETC., LOCATED IN THE DISTURBED AREA, AS INDICATED ON THE PLANS, SHALL BE RESTORED BY THE CONTRACTOR.
2. FINAL GRADE SHALL MEET EXISTING GRADE AND SHALL BE OF AT LEAST 4" TOPSOIL WITH SODDING (SPECIAL), AS DETERMINED BY THE ENGINEER.

TRAFFIC CONTROL AND PROTECTION

1. ALL TRAFFIC CONTROL AND OTHER ADVISORY SIGNS NEEDED FOR CONSTRUCTION ARE TO BE FURNISHED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 107.14 OF THE STANDARD SPECIFICATIONS.
2. IF NEEDED, ANY EXISTING TRAFFIC REGULATORY AND STREET SIGNS WITHIN THE LIMITS OF THE CONSTRUCTION SHALL BE REMOVED AND STORED BY THE CONTRACTOR. APPROPRIATE TRAFFIC REGULATORY AND STREET SIGNS SHALL BE INSTALLED BY THE CONTRACTOR AS SOON AS CONSTRUCTION ACTIVITIES PERMIT.
3. CONTRACTOR SHALL PROVIDE BUMP SIGNS (W8-1(0)) AT EACH ENTRANCE TO WORK ZONE.

HRG PROJECT NO: 20072
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

GENERAL NOTES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	3
CONTRACT NO.			61100	
ILLINOIS		FED. AID PROJECT		

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED 20% ORLAND PARK
				ROADWAY
				005
				URBAN
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	267	267
20700220	POROUS GRANULAR EMBANKMENT	CU YD	267	267
25200200	SUPPLEMENTAL WATERING	UNIT	173	173
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	80	80
28000510	INLET FILTERS	EACH	48	48
40500290	BITUMINOUS MATERIALS (TACK COAT)	POUND	27,033	27,033
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	467	467
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	1,682	1,682
40604062	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70	TON	4,485	4,485
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	40,047	40,047
44003100	MEDIAN REMOVAL	SQ FT	160	160
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	841	841
44201721	CLASS D PATCHES, TYPE III, 6 INCH	SQ YD	1,962	1,962
60250200	CATCH BASINS TO BE ADJUSTED	EACH	44	44
60265700	VALVE VAULTS TO BE ADJUSTED	EACH	10	10
60619800	CONCRETE MEDIAN, TYPE SB-6.12	SQ FT	160	160
67100100	MOBILIZATION	L SUM	1	1
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1

CODE NO.	ITEM	UNIT	TOTAL QUANTITY	CONSTR. CODE
				80% FED 20% ORLAND PARK
				ROADWAY
				005
				URBAN
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1
70300211	TEMPORARY PAVEMENT MARKING - PAINT LETTERS AND SYMBOLS	SQ FT	864	864
70300221	TEMPORARY PAVEMENT MARKING - LINE PAINT 4"	FOOT	2,260	2,260
70300241	TEMPORARY PAVEMENT MARKING - LINE PAINT 6"	FOOT	3,160	3,160
70300281	TEMPORARY PAVEMENT MARKING - LINE PAINT 24"	FOOT	374	374
△ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	863.2	863.2
△ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	19,600	19,600
△ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3,863	3,863
△ 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	374	374
△ 88600600	DETECTOR LOOP REPLACEMENT	FOOT	2,066	2,066
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	4,036	4,036
Z0013798	CONSTRUCTION LAYOUT	L SUM	1	1
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	154.2	154.2
# Z0076600	TRAINEES	HOUR	500	500
# Z0076604	TRAINEES TRAINING PROGRAM GRADUATE	HOUR	500	500
X2520700	SODDING, SPECIAL	SQ YD	3,853	3,853
X4400501	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	150	150
X6025300	CATCH BASINS TO BE ADJUSTED-REPLACEMENT FRAME & GRATE	EACH	3	3
XX008348	MORTAR EXISTING STRUCTURE	EACH	1	1

△ SPECIALTY ITEMS
0042

HRG PROJECT NO. 206012
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 PER: TABELLA, PLOT/04/01/2022



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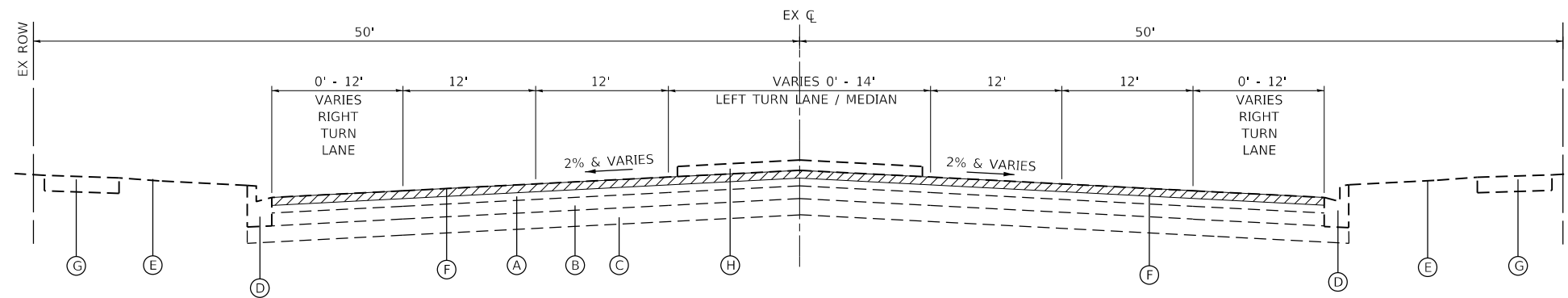
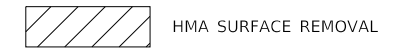
**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SUMMARY OF QUANTITIES				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A. RTE 1986	SECTION 19-00086-00-R5	COUNTY COOK	TOTAL SHEETS 32	SHEET NO. 4
CONTRACT NO. 61J0D				
ILLINOIS FED. AID PROJECT				

EXISTING LEGEND

- (A) EXISTING HOT-MIX ASPHALT PAVEMENT
- (B) EXISTING HOT-MIX ASPHALT BASE COURSE
- (C) EXISTING AGGREGATE SUBGRADE
- (D) EXISTING CONCRETE CURB AND GUTTER
- (E) EXISTING GROUND
- (F) HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- (G) EXISTING PCC SIDEWALK
- (H) EXISTING MEDIAN

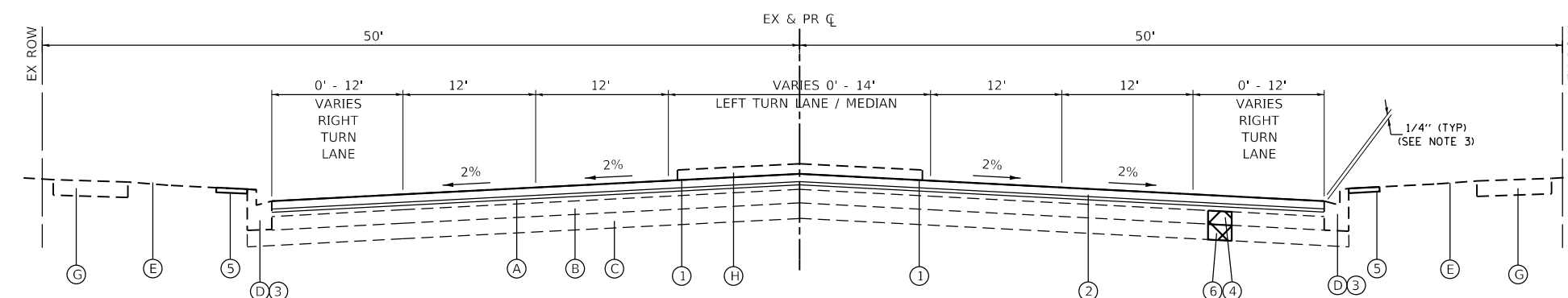


EXISTING TYPICAL SECTION

94TH AVE.: STA. 100+37.61 - STA. 152+92.36

PROPOSED LEGEND

- ① HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2"
- ② POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50; (3/4")
- ③ REM AND REP COMB. CONCRETE CURB & GUTTER, TYPE B-6.24 (VARIOUS LOCATIONS DETERMINED BY THE ENGINEER)
- ④ CLASS D PATCHES, 6 INCH (AS DIRECTED BY THE ENGINEER)
- ⑤ SODDING, SPECIAL
- ⑥ PREPARATION OF AGGREGATE BASE REPAIR (AS DIRECTED BY THE ENGINEER)



PROPOSED TYPICAL SECTION

94TH AVE.: STA. 100+37.61 - STA. 152+92.36

- NOTES:
- CONTRACTOR SHALL MILL BEFORE PATCHING.
 - PATCHING LOCATIONS WILL BE DETERMINED BY THE ENGINEER.
 - SURFACE COURSE TO BE PLACED 1/4" ABOVE GUTTER FLAG.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS		
MIXTURE TYPE	AIR VOIDS @ Ndes	QMP
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70	4% @ 70 GYR.	LR1030-2
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE IL-4.75, N50, (3/4")	3.5% @ 50 GYR.	LR1030-2
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm)	4% @ 70 GYR.	LR1030-2
QMP DESIGNATIONS: QUALITY CONTROL/QUANLITY ASSURANCE (QC/QA) PER LR1030-2		

THE UNIT WEIGHT TO CALCULATE ALL HMA SURFACE MIXTURE 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.

HRG PROJECT NO.: 20072
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	DATE - 9/7/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TYPICAL SECTIONS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	5
CONTRACT NO. 61J00			ILLINOIS FED. AID PROJECT	

PAVEMENT SCHEDULE																
LOCATION	LENGTH (FT)	WIDTH (FT)	EXTRA AREA (SQ YD)	AREA (SQ YD)	(NOTE #1) BITUMINOUS MATERIALS (TACK COAT) (POUND)	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT (SQ YD)	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 (3/4") (TON)	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70 (TON)	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2" (SQ YD)	CLASS D PATCHES, TYPE II, 6 INCH (SQ YD)	CLASS D PATCHES, TYPE III, 6 INCH (SQ YD)	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET (FOOT)	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (FOOT)	MEDIAN REMOVAL (SQ FT)	CONCRETE MEDIAN, TYPE SB-6.12 (SQ FT)	INLET FILTERS (EACH)
94TH AVENUE	5,254			40,047												
159TH ST - SUNRISE LN	1,024	64	1,254	8,536	5,762	228	359	956	8,536	179	418	30	1,264	60	60	9
SUNRISE LN - 156TH ST	1,091	66	630	8,631	5,826	46	363	967	8,631	181	423	30	721	0	0	13
156TH ST - WHEELER DR	468	65	72	3,452	2,331	32	145	387	3,452	73	169	10	209.0	0	0	7
WHEELER DR - 151ST ST	2,671	65	137	19,428	13,114	161	816	2,176	19,428	408	952	80	1,842.0	100	100	19
TOTALS:					27,033	467	1,682	4,485	40,047	841	1,962	150	4,036	160	160	48

NOTE #1: BITUMINOUS MATERIALS (TACK COAT) PER SECTION 406
 - MILLED HMA = 0.05 LB/SQ FT APPLICATION RATE
 - NEW HMA SURFACE = 0.025 LB/SQ FT APPLICATION RATE

PAVEMENT MARKING SCHEDULE				
LOCATION	THERMOPLASTIC PAVEMENT MARKING - LETTER AND SYMBOLS (SQ FT)	THERMOPLASTIC PAVEMENT MARKING - LINE 4" (FOOT)	THERMOPLASTIC PAVEMENT MARKING - LINE 6" (FOOT)	THERMOPLASTIC PAVEMENT MARKING - LINE 24" (FOOT)
94TH AVENUE	863.2	19,600	3,883	374
TOTALS:		863.2	19,600	3,883

STRUCTURE SCHEDULE				
LOCATION	VALVE VAULTS TO BE ADJUSTED (EACH)	CATCH BASINS TO BE ADJUSTED (EACH)	CASTCH BASINS TO BE ADJUSTED-REPLACEMENT FRAME AND GRATE (EACH)	MORTAR EXISTING STRUCTURE (EACH)
94TH AVENUE	10	44	3	1
TOTALS:		10	44	3

RESTORATION SCHEDULE						
LOCATION	LT/RT	AREA SQ FT	AREA ACRE	SODDING (SPECIAL) SQ YD	SUPPLEMENTAL WATERING 1 UNIT = 1000 GAL	TEMPORARY EROSION CONTROL SEEDING POUND
94TH AVENUE	LT/RT	15,765	0.36	1,752	79	36
TOTAL		15,765	0.36	3,853	173	80

FERTILIZER NUTRIENTS SHALL BE APPLIED AT 1:1:1 RATIO AT 60 LB/ACRE
 TEMPORARY EROSION CONTROL SEEDING SHALL BE APPLIED AT 100 LB/ACRE
 SUPPLEMENTAL WATERING RATE ASSUMED AT 3 GAL/SY FOR 15 EXTRA DAYS BEYOND REQUIRED WATERING.

RDUM & PGE SCHEDULE			
LOCATION	OFFSET	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL CU YD	POROUS GRANULAR EMBANKMENT CU YD
94TH AVENUE	LT/RT	267	267
TOTAL		267	267

QUANTITY ASSUMES 01% OF PROPOSED PAVEMENT AREA WITHIN THE CUT AREAS WILL NEED TO BE UNDERCUT AT A DEPTH = 2"

HRG PROJECT NO: 20072
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 PEN TABLE: 10/10/2022



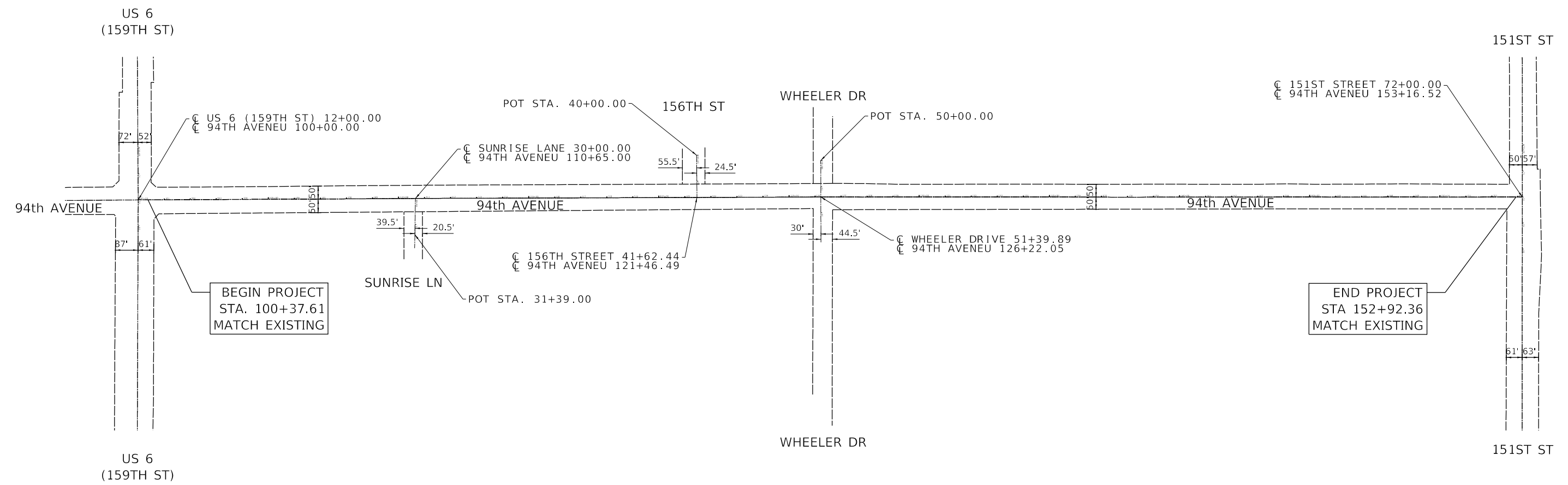
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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 9/7/2022	CHECKED - TSC	REVISED -
	DATE - 9/7/2022	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SCHEDULE OF QUANTITIES

SCALE: SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	6
CONTRACT NO.			61100	
ILLINOIS FED. AID PROJECT				



BEGIN PROJECT
STA. 100+37.61
MATCH EXISTING

END PROJECT
STA 152+92.36
MATCH EXISTING

ALIGNMENT DATA

LOCATION	NORTHING	EASTING
POT STA. 100+00.00 / STA. 12+00.00	1797737.9830	1117000.3680
POT STA. 100+37.61	1797775.5729	1116999.1385
POT STA. 110+65.00 / STA. 30+00.00	1798802.3131	1116962.6945
POT STA. 121+46.49 / STA. 41+62.44	1799883.1855	1116926.2673
POT STA. 126+22.05 / STA. 51+39.89	1800358.4779	1116910.0838
POT STA 152+92.36	1803027.5635	1116829.7144
POT STA 153+16.52 / STA. 72+00.00	1803051.7160	1116829.0200
POT STA. 31+39.00	1798804.2772	1117101.7406
POT STA. 40+00.00	1799876.5861	1116763.9529
POT STA. 50+00.00	1800353.8966	1116702.9967

HRC PROJECT NO.: 20072
 HRC PROJ CONTACT:
 FILE NAME: 20072-SN+Alignment.dgn
 PLOT DRIVER: IL_Pdf_bwp1rfg
 PEN TABLE: plotlabel.tbl



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PLOT DATE = 9/7/2022	CHECKED - TSC	REVISED -
	DATE - 9/7/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

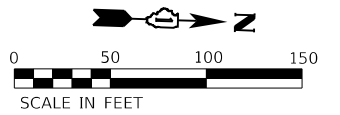
ALIGNMENT AND TIES			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-RS	COOK	32	7
CONTRACT NO. 61J00				
ILLINOIS FED. AID PROJECT				

BEGIN PROJECT
STA. 100+37.61
MATCH EXISTING

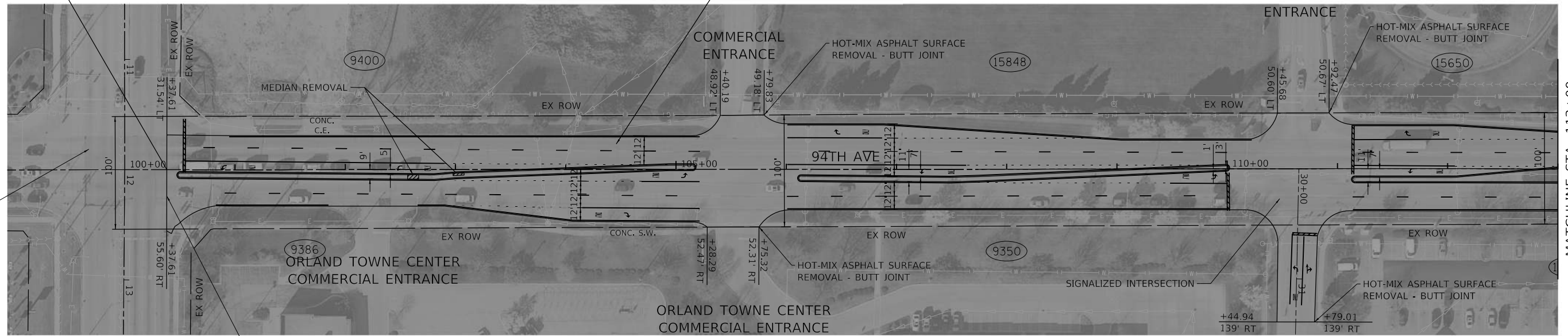
US 6
(159TH ST)

- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 (3/4")
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2"
- CLASS D PATCHES, TYPE II AND III, 6 INCH IN VARIOUS LOCATIONS
- REMOVE AND REPLACE C.C.C.&G., TYPE B-6.24 IN VARIOUS LOCATIONS
- TRAFFIC SIGNAL LOOP DETECTOR REPLACEMENT AT SIGNALIZED INTERSECTIONS



PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	FILE NUMBER	
	FILE DATE	
	FILE TIME	
	FILE USER	
	FILE PROJECT	

SIGNALIZED INTERSECTION

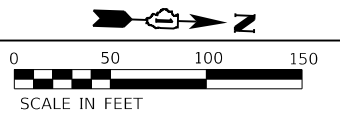


US 6
(159TH ST)

HOT-MIX ASPHALT SURFACE
REMOVAL - BUTT JOINT

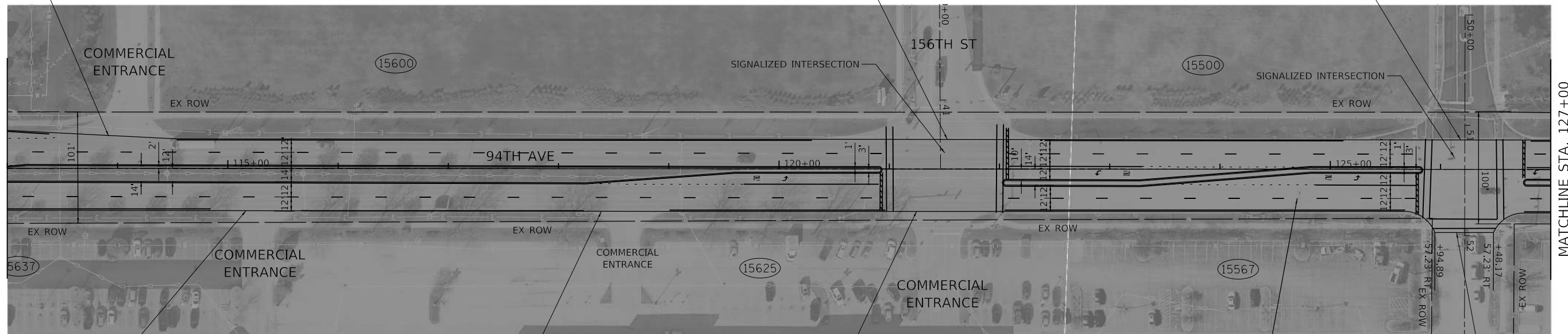
MATCHLINE STA. 113+00

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	ALIGNED	
	CHECKED	
	FILE NAME	
	FILE NUMBER	
	FILE DATE	
	FILE TIME	
	FILE USER	
	FILE PROJECT	



DEPRESSED CURB

MATCHLINE STA. 113+00



DEPRESSED CURB

COMMERCIAL
ENTRANCE

DEPRESSED CURB

COMMERCIAL
ENTRANCE

DEPRESSED CURB

COMMERCIAL
ENTRANCE

- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 (3/4")
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2"
- CLASS D PATCHES, TYPE II AND III, 6 INCH IN VARIOUS LOCATIONS
- REMOVE AND REPLACE C.C.C.&G., TYPE B-6.24 IN VARIOUS LOCATIONS
- TRAFFIC SIGNAL LOOP DETECTOR REPLACEMENT AT SIGNALIZED INTERSECTIONS

HOT-MIX ASPHALT SURFACE
REMOVAL - BUTT JOINT

WHEELER DR

MATCHLINE STA. 127+00

HRG PROJECT NO. 20072
HRG PROJ. CONTACT:
FILE NAME: 9400-94-10-02.dwg
FILE NUMBER: 9400-94-10-02.dwg
FILE DATE: 9/7/2022
FILE TIME: 10:00:00
FILE USER: tballah



USER NAME	= tballah	DESIGNED	- KBH	REVISED	-
		DRAWN	- KBH	REVISED	-
PLOT SCALE	= 100.0000' / in.	CHECKED	- TSC	REVISED	-
PLOT DATE	= 9/7/2022	DATE	- 9/7/2022	REVISED	-

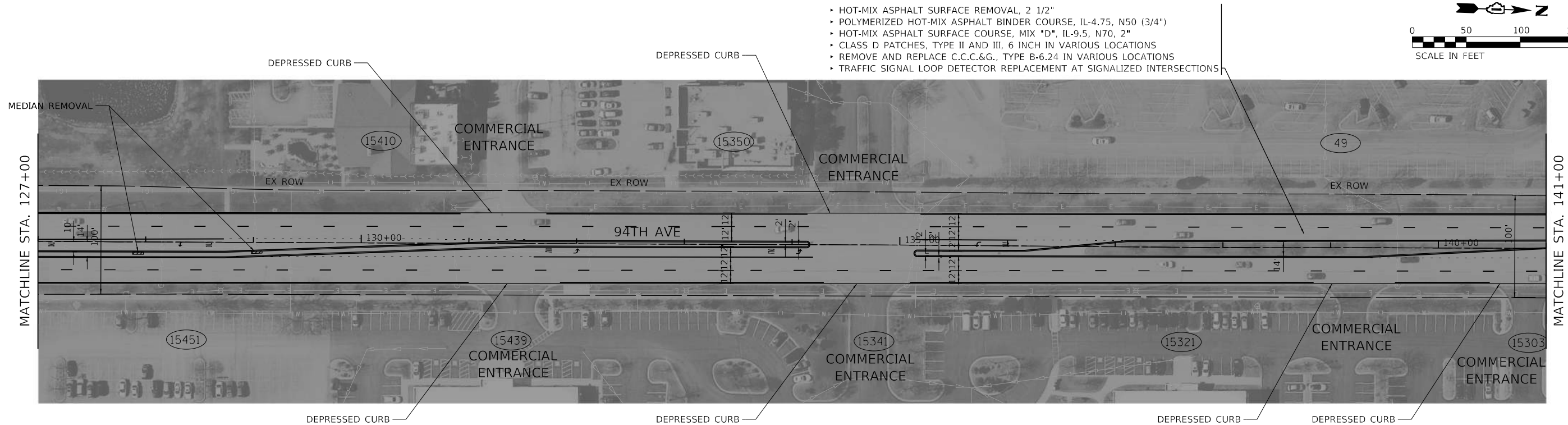
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLANS
94TH AVENUE

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. 100+00 TO STA. 127+00

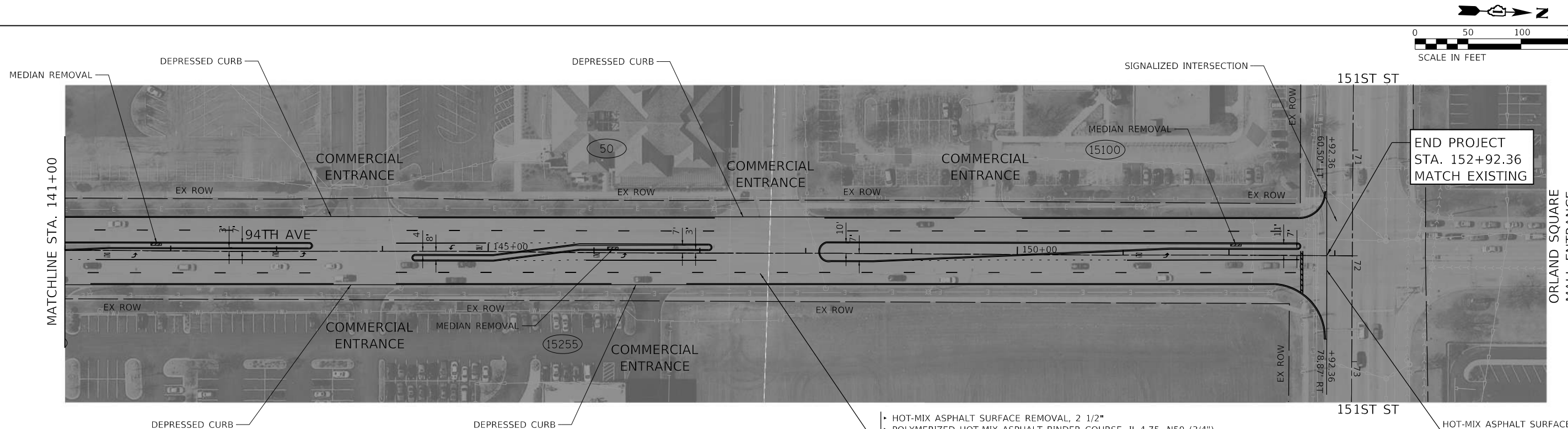
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	8
CONTRACT NO. 61J00				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	ALIGNMENT CHECKED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	FILE NAME: 19-00086-00-R5-141P1C1.dwg	
	PEN TABLE: 19-00086-00-R5-141P1C1.tbl	



- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 (3/4")
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2"
- CLASS D PATCHES, TYPE II AND III, 6 INCH IN VARIOUS LOCATIONS
- REMOVE AND REPLACE C.C.C.&G., TYPE B-6.24 IN VARIOUS LOCATIONS
- TRAFFIC SIGNAL LOOP DETECTOR REPLACEMENT AT SIGNALIZED INTERSECTIONS

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	FILE NAME: 19-00086-00-R5-141P1C1.dwg	
	PEN TABLE: 19-00086-00-R5-141P1C1.tbl	



- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50 (3/4")
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70, 2"
- CLASS D PATCHES, TYPE II AND III, 6 INCH IN VARIOUS LOCATIONS
- REMOVE AND REPLACE C.C.C.&G., TYPE B-6.24 IN VARIOUS LOCATIONS
- TRAFFIC SIGNAL LOOP DETECTOR REPLACEMENT AT SIGNALIZED INTERSECTIONS

END PROJECT
STA. 152+92.36
MATCH EXISTING

HRG PROJECT NO: 20072
HRG PROJ. CONTACT:
FILE NAME: 19-00086-00-R5-141P1C1.dwg
PEN TABLE: 19-00086-00-R5-141P1C1.tbl



USER NAME = tballah	DESIGNED - KBH	REVISED -
	DRAWN - KBH	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - TSC	REVISED -
PLOT DATE = 9/7/2022	DATE - 9/7/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

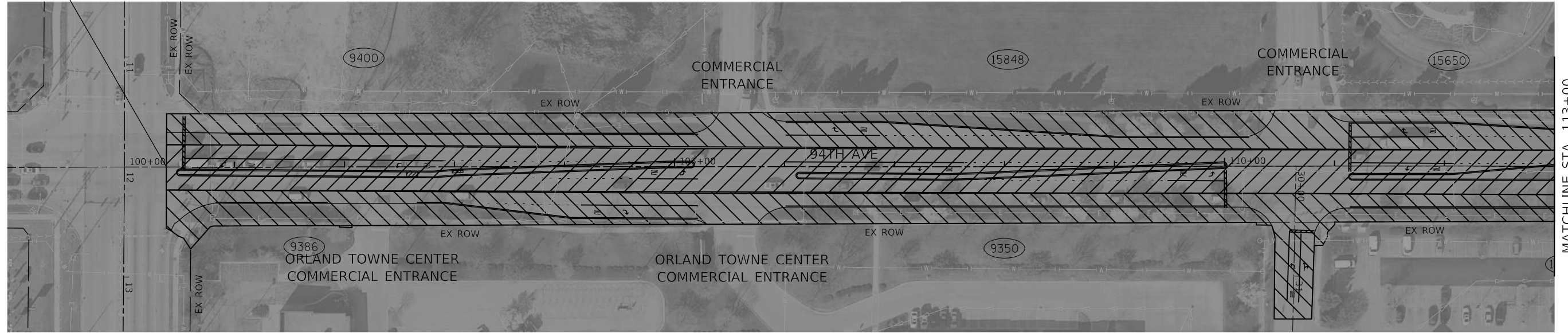
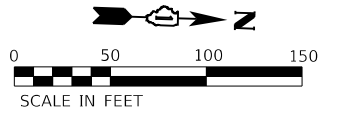
ROADWAY PLANS
94TH AVENUE

SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. 127+00 TO STA. 138+92.71

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	9
CONTRACT NO. 61J00				
ILLINOIS FED. AID PROJECT				

BEGIN PROJECT
STA. 100+37.61
MATCH EXISTING

US 6
(159TH ST)

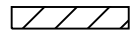
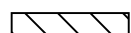


US 6
(159TH ST)

SUNRISE LN

MATCHLINE STA. 113+00

LEGEND

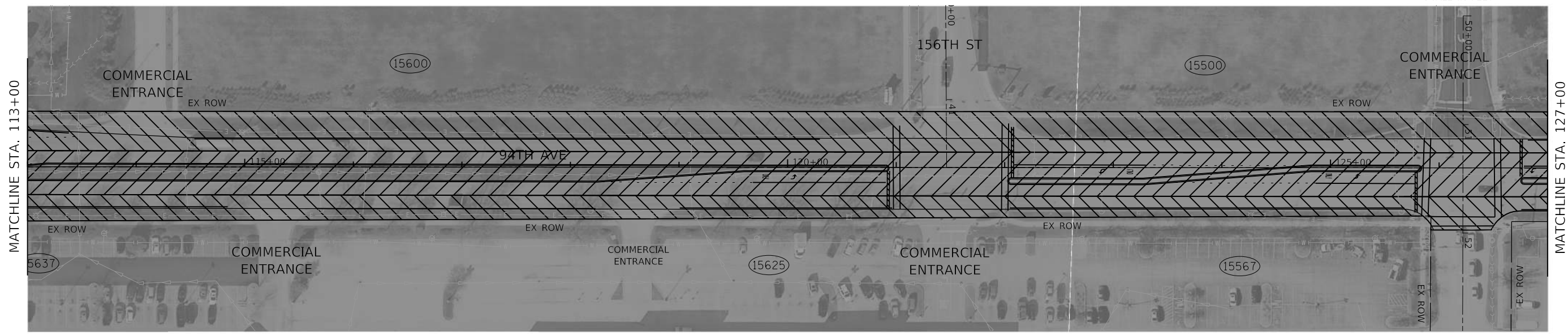
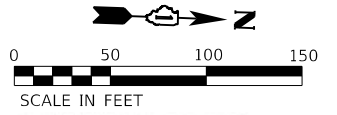
-  AREA OF STAGE 1A WORK
-  AREA OF STAGE 1B WORK

STAGE 1A & 1B WORK:

- CURB REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- TEMPORARY PAVEMENT MARKING
- FRAMES AND LIDS TO BE ADJUSTED
- CLASS D PATCHES, 6 INCH (VARIOUS TYPES)

PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	BY	
	FILE NAME	
	TABLE NAME	
	NO.	

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	BY	
	FILE NAME	
	TABLE NAME	
	NO.	



MATCHLINE STA. 113+00

MATCHLINE STA. 127+00

WHEELER DR

HRG PROJECT NO. 20072
HRG PROJ. CONT. ACT.
FILE NAME: 19-00086-00-R5-11-17-2022.dwg
PEN TABLE: 19-00086-00-R5



USER NAME = tballah	DESIGNED - TJB	REVISED -
	DRAWN - TJB	REVISED -
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PLOT DATE = 9/7/2022	DATE - 9/7/2022	REVISED -

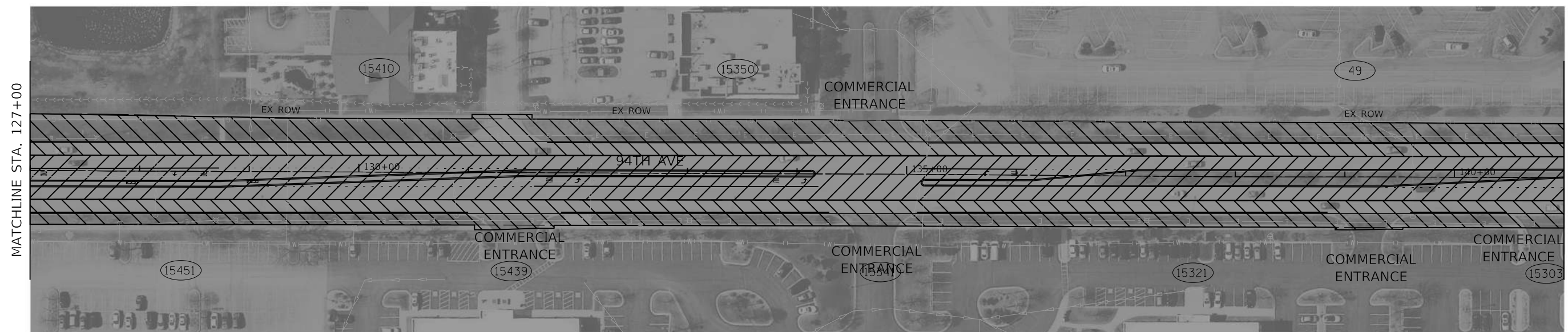
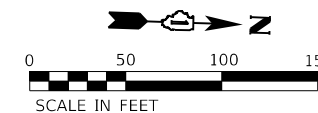
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE
OF TRAFFIC STAGE 1A & 1B**

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. 100+00 TO STA. 127+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	10
CONTRACT NO. 61J00			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNED	
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	DATE	
	FILE NAME	
	TABLE NAME	



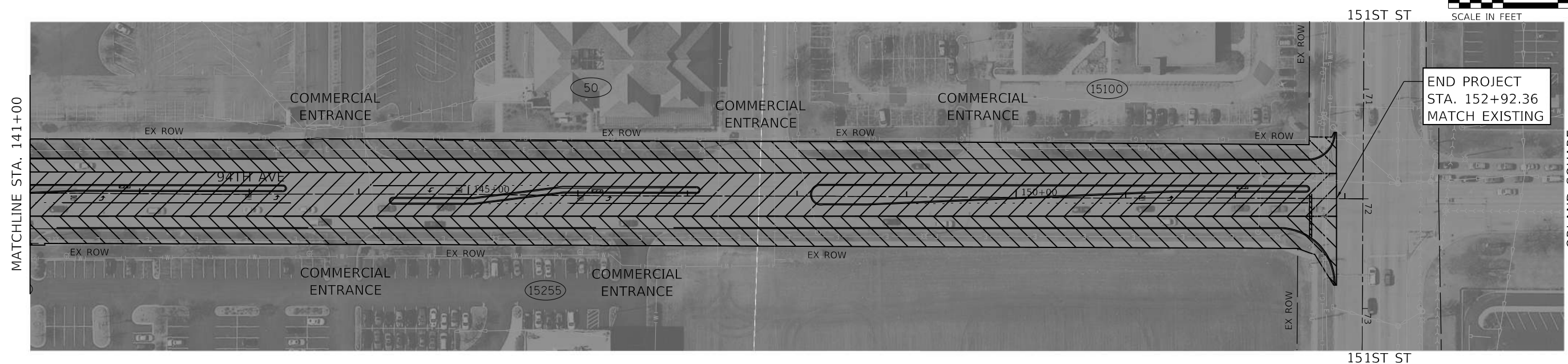
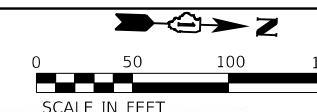
LEGEND

- AREA OF STAGE 1A WORK
- AREA OF STAGE 1B WORK

STAGE 1A & 1B WORK:

- CURB REMOVAL AND REPLACEMENT
- HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"
- TEMPORARY PAVEMENT MARKING
- FRAMES AND LIDS TO BE ADJUSTED
- CLASS D PATCHES, 6 INCH (VARIOUS TYPES)

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
	STRUCTURE	
	NOTATIS	



HRG PROJECT NO. 20072
 HRG PROJ. CONT. ACT.
 FILE NAME: 20072-SP-17-17-f02.dgn
 PEN TABLE: 19-00086-00-11



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	DATE - 9/7/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

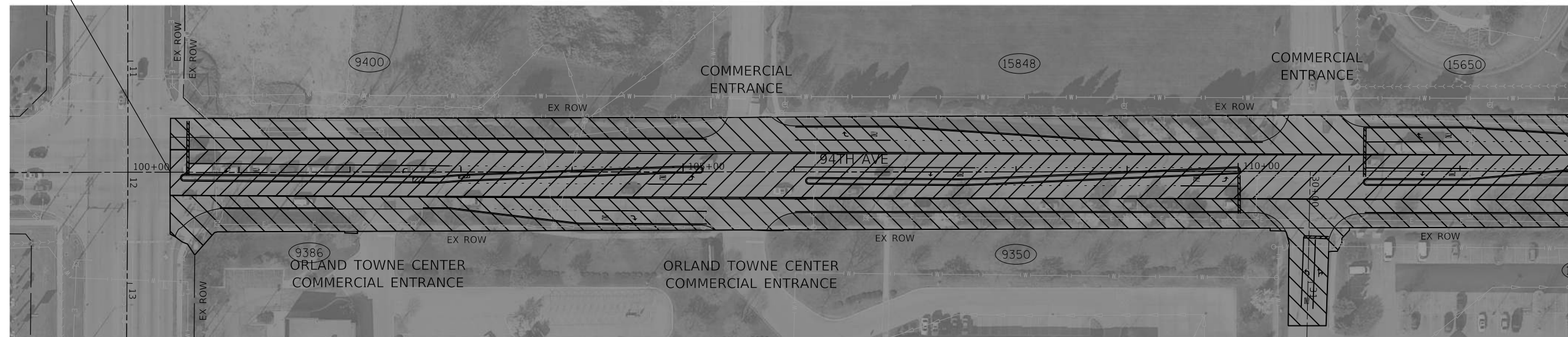
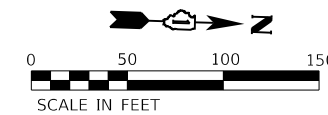
**SUGGESTED MAINTENANCE
 OF TRAFFIC STAGE 1A & 1B**

SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. 127+00 TO STA. 138+92.71

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	11
CONTRACT NO. 61J00			ILLINOIS FED. AID PROJECT	

BEGIN PROJECT
STA. 100+37.61
MATCH EXISTING

US 6
(159TH ST)



US 6
(159TH ST)

SUNRISE LN

MATCHLINE STA. 113+00

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNMENT CHECKED	
	ASPHALT CHECKED	
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	FILE NAME	
	FILE NO.	

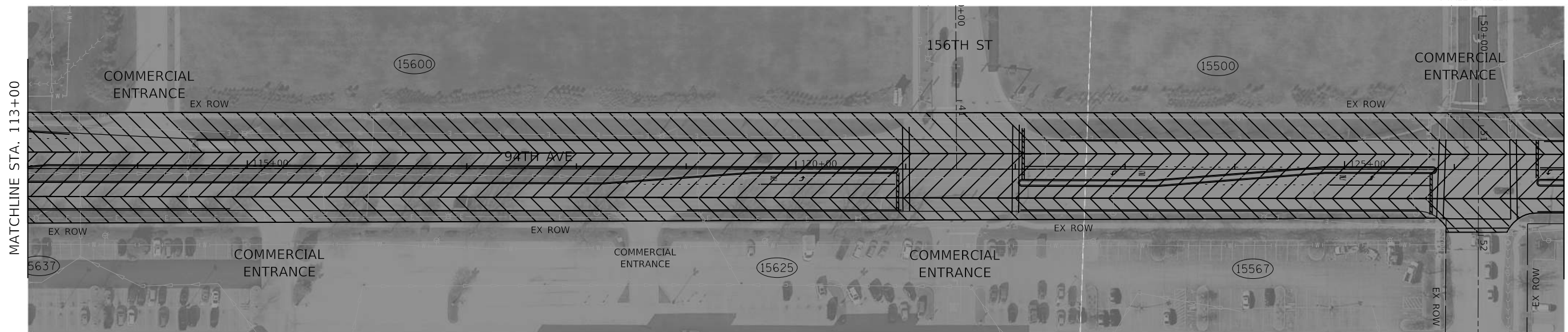
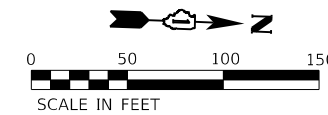
LEGEND

- AREA OF STAGE 2A WORK
- AREA OF STAGE 2B WORK

STAGE 2A & 2B WORK:

- POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50
- CONCRETE MEDIAN REPAIR

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	



MATCHLINE STA. 113+00

WHEELER DR

MATCHLINE STA. 127+00

HRG PROJECT NO. 20072
HRG PROJ. CONT. ACT.
FILE NAME: 19-00086-00-R5-11-17-22.dgn
PEN TABLE: 19-00086-00-R5-11-17-22.dgn



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PLOT SCALE = 100,0000' / in.	DRAWN - TJB	REVISED -
PLOT DATE = 9/7/2022	CHECKED - TSC	REVISED -
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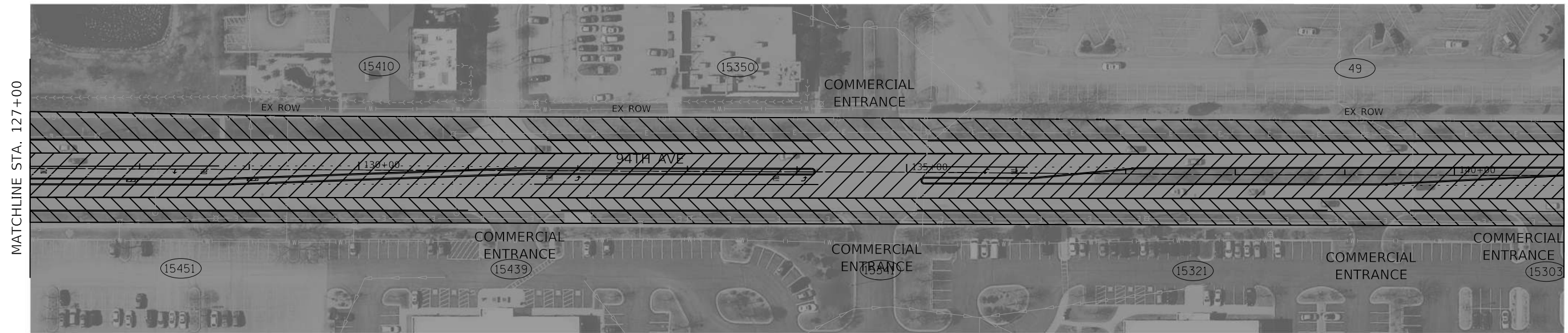
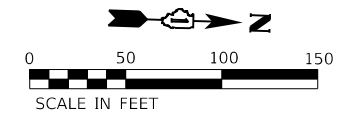
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SUGGESTED MAINTENANCE
OF TRAFFIC STAGE 2A & 2B**

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. 100+00 TO STA. 127+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	12
CONTRACT NO. 61J00			ILLINOIS FED. AID PROJECT	

PLAN	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	BY	

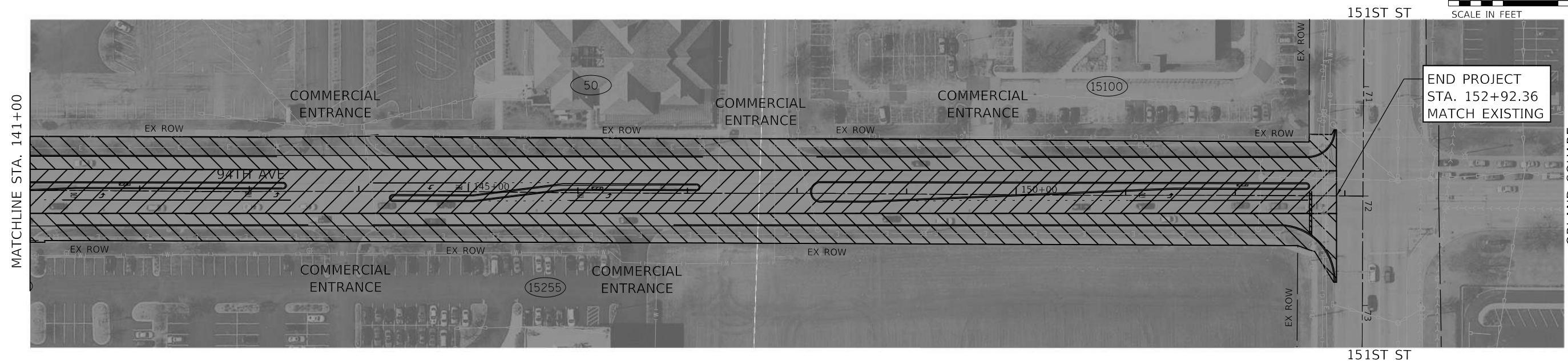
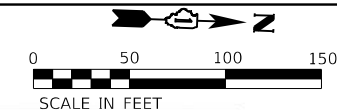


LEGEND

- AREA OF STAGE 2A WORK
- AREA OF STAGE 2B WORK

- STAGE 2A & 2B WORK:**
- POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50
 - CONCRETE MEDIAN REPAIR

PROFILE	SURVEYED	DATE
	PLOTTED	
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	
	NOTE BOOK NO.	
	BY	



HRG PROJECT NO: 20072
 HRG PROJ. CONT. ACT:
 FILE NAME: 19-00086-00-R5-TR-104.dgn
 PEN TABLE: 19-00086-00-R5



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	DRAWN - TJB	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED - TSC	REVISED -
PLOT DATE = 9/7/2022	DATE - 9/7/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

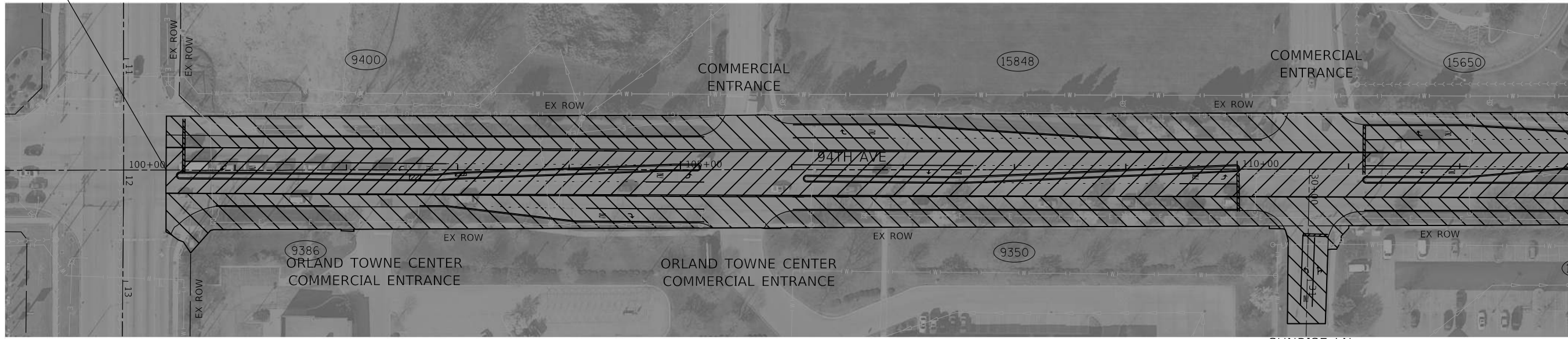
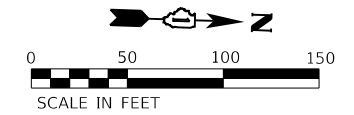
**SUGGESTED MAINTENANCE
 OF TRAFFIC STAGE 2A & 2B**

SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. 127+00 TO STA. 138+92.71

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	13
CONTRACT NO. 61J00				
ILLINOIS		FED. AID PROJECT		

BEGIN PROJECT
STA. 100+37.61
MATCH EXISTING

US 6
(159TH ST)



US 6
(159TH ST)

SUNRISE LN

MATCHLINE STA. 113+00

LEGEND

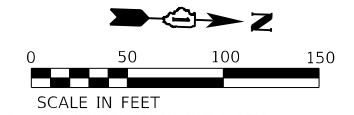
- AREA OF STAGE 3A WORK
- AREA OF STAGE 3B WORK

STAGE 3A & 3B WORK:

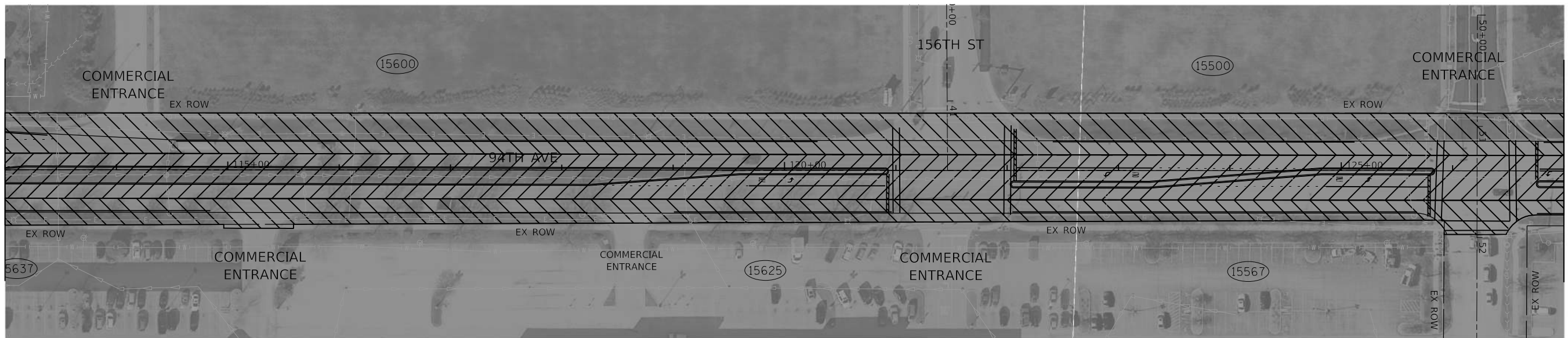
- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70
- THERMOPLASTIC PAVEMENT MARKINGS
- DETECTOR LOOP REPLACEMENT
- SITE RESTORATION

PLAN	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	ALIGNED	
	CHECKED	
	DATE	
	FILE NAME	
	FILE NO.	
	TABLE NAME	

PROFILE	SURVEYED	DATE
NOTE BOOK	PLOTTED	BY
NO.	GRADES CHECKED	
	STRUCTURE	
	NOTATIONS	
	CHKD	



MATCHLINE STA. 113+00



WHEELER DR

MATCHLINE STA. 127+00

HRG PROJECT NO. 20072
HRG PROJ. CONT. ACT.
FILE NAME: 20072-377-7-Tr-f05.dgn
FILE NO.: 1001322
PEN TABLE: 1001322.tbl



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PLOT SCALE = 100,0000' / in.	DRAWN - TJB	REVISED -
PLOT DATE = 9/7/2022	CHECKED - TSC	REVISED -
	DATE - 9/7/2022	REVISED -

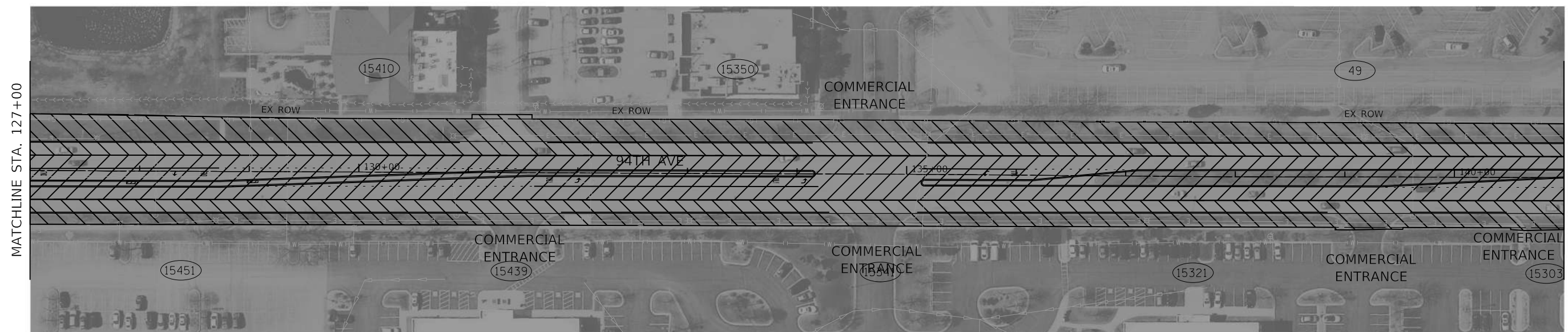
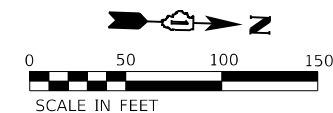
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUGGESTED MAINTENANCE
OF TRAFFIC STAGE 3A & 3B

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. 100+00 TO STA. 127+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	14
CONTRACT NO. 61J00				
ILLINOIS FED. AID PROJECT				

PLAN	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	ALIGNED	
	CHECKED	
	DATE	
	FILE NAME	
	TABLE NAME	



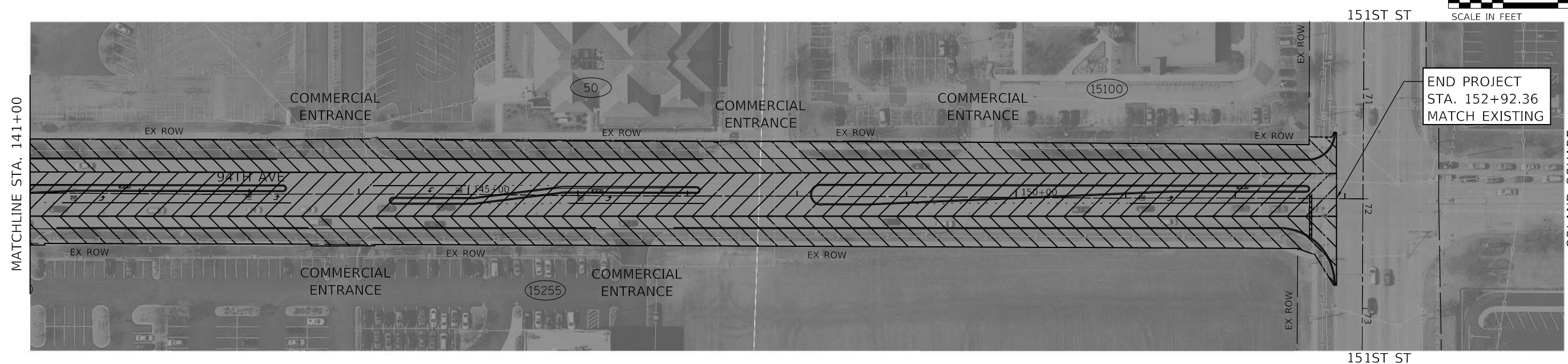
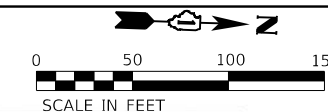
LEGEND

- AREA OF STAGE 3A WORK
- AREA OF STAGE 3B WORK

STAGE 3A & 3B WORK:

- HOT-MIX ASPHALT SURFACE COURSE, MIX "D", IL-9.5, N70
- THERMOPLASTIC PAVEMENT MARKINGS
- DETECTOR LOOP REPLACEMENT
- SITE RESTORATION

PROFILE	SURVEYED	DATE
NOTE BOOK NO.	PLOTTED	BY
	GRADES CHECKED	
	STRUCTURE NOTATIONS CHECKED	



HRG PROJECT NO. 20072
 HRG PROJ. CONTACT:
 FILE NAME: 19-00086-00-R5-TR-106.dgn
 PEN TABLE: 19-00086-00-R5



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PLOT SCALE = 100.0000' / in.	DRAWN - TJB	REVISED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

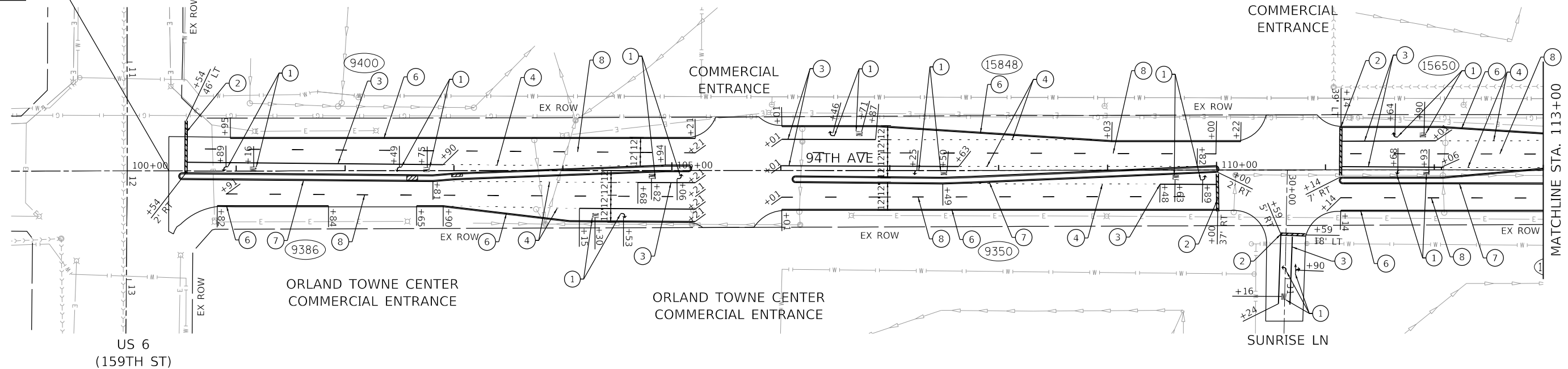
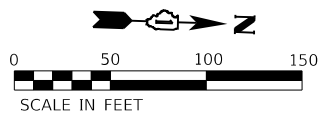
**SUGGESTED MAINTENANCE
 OF TRAFFIC STAGE 3A & 3B**

SCALE: 1" = 50' SHEET 2 OF 2 SHEETS STA. 127+00 TO STA. 138+92.71

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	15
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61J00	

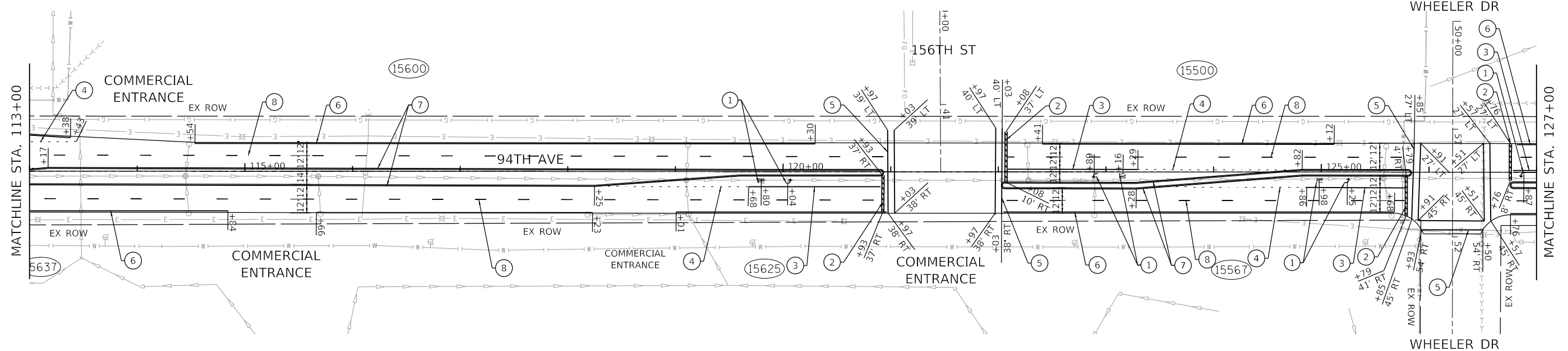
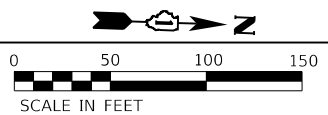
BEGIN PROJECT
STA. 100+37.61
MATCH EXISTING

US 6
(159TH ST)



PAVEMENT MARKING LEGEND

- | | |
|---|--|
| ① THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS, SOLID WHITE (TYP.) | ⑤ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE, 2 @ 6' C-C (TYP.) |
| ② THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.) | ⑥ THERMOPLASTIC PAVEMENT MARKING, 4" SINGLE SOLID WHITE LINE (TYP.) |
| ③ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE (TYP.) | ⑦ THERMOPLASTIC PAVEMENT MARKING, 4" SINGLE SOLID YELLOW LINE (TYP.) |
| ④ THERMOPLASTIC PAVEMENT MARKING, 6" SKIP DASH WHITE TURN LANE, 2' LINE WITH 6' SPACING | ⑧ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP DASH WHITE LANE LINE, 10' DASH - 30' SKIP (TYP.) |



PLAN	SURVEYED	DATE
	PLOTTED	
	ALIGNED	
	CHECKED	
	FILED	
	NO. / FILE NAME	

PROFILE	SURVEYED	DATE
	GRADES CHECKED	
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	NO. / FILE NAME	

HRG PROJECT NO. 20072
HRG PROJ. CONT. ACT.
FILE NAME: 94086-00-R5-PAV.MXD
PEN TABLE: pav.tbl



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	DRAWN - TJB	REVISED -
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

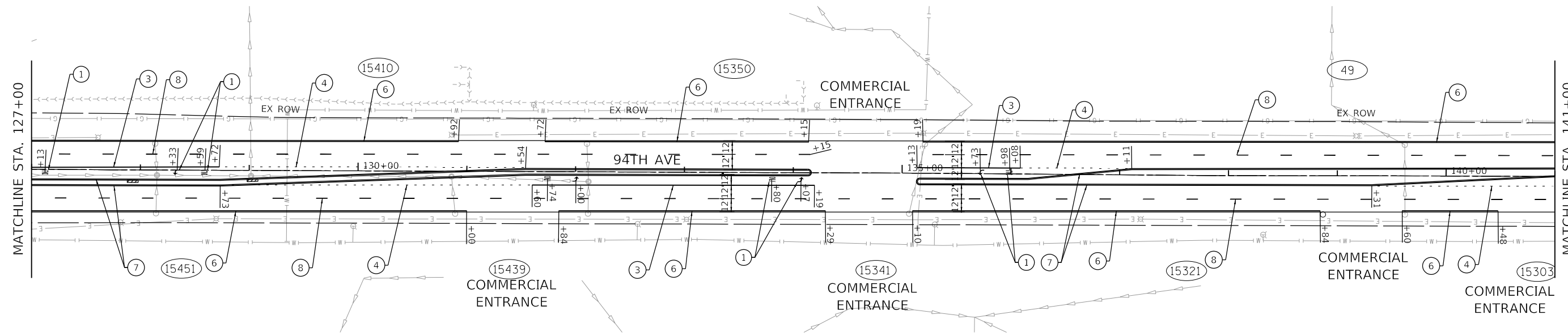
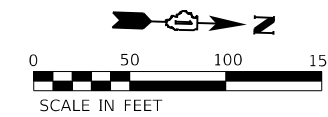
PAVEMENT MARKING PLANS
94TH AVENUE

SCALE: 1" = 50' SHEET 1 OF 2 SHEETS STA. 100+00 TO STA. 127+00

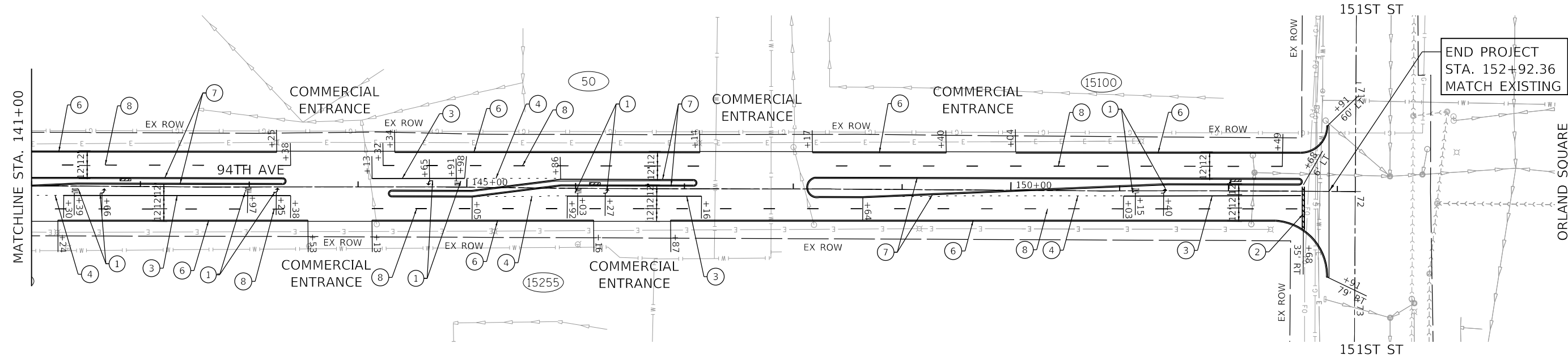
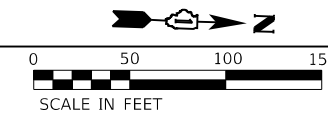
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CONTRACT NO. 61J00			ILLINOIS FED. AID PROJECT	

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	GRADES CHECKED		
	NOTES CHECKED		
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	NOTES CHECKED		
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	PEN TABLE: 19-00086-00-R5		
	NO.		



① THERMOPLASTIC PAVEMENT MARKING, LETTERS AND SYMBOLS, SOLID WHITE (TYP.)	⑤ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE, 2 @ 6' C-C (TYP.)
② THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)	⑥ THERMOPLASTIC PAVEMENT MARKING, 4" SINGLE SOLID WHITE LINE (TYP.)
③ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE (TYP.)	⑦ THERMOPLASTIC PAVEMENT MARKING, 4" SINGLE SOLID YELLOW LINE (TYP.)
④ THERMOPLASTIC PAVEMENT MARKING, 6" SKIP DASH WHITE TURN LANE, 2' LINE WITH 6' SPACING	⑧ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP DASH WHITE LANE LINE, 10' DASH - 30' SKIP (TYP.)



HRG PROJECT NO.: 20072
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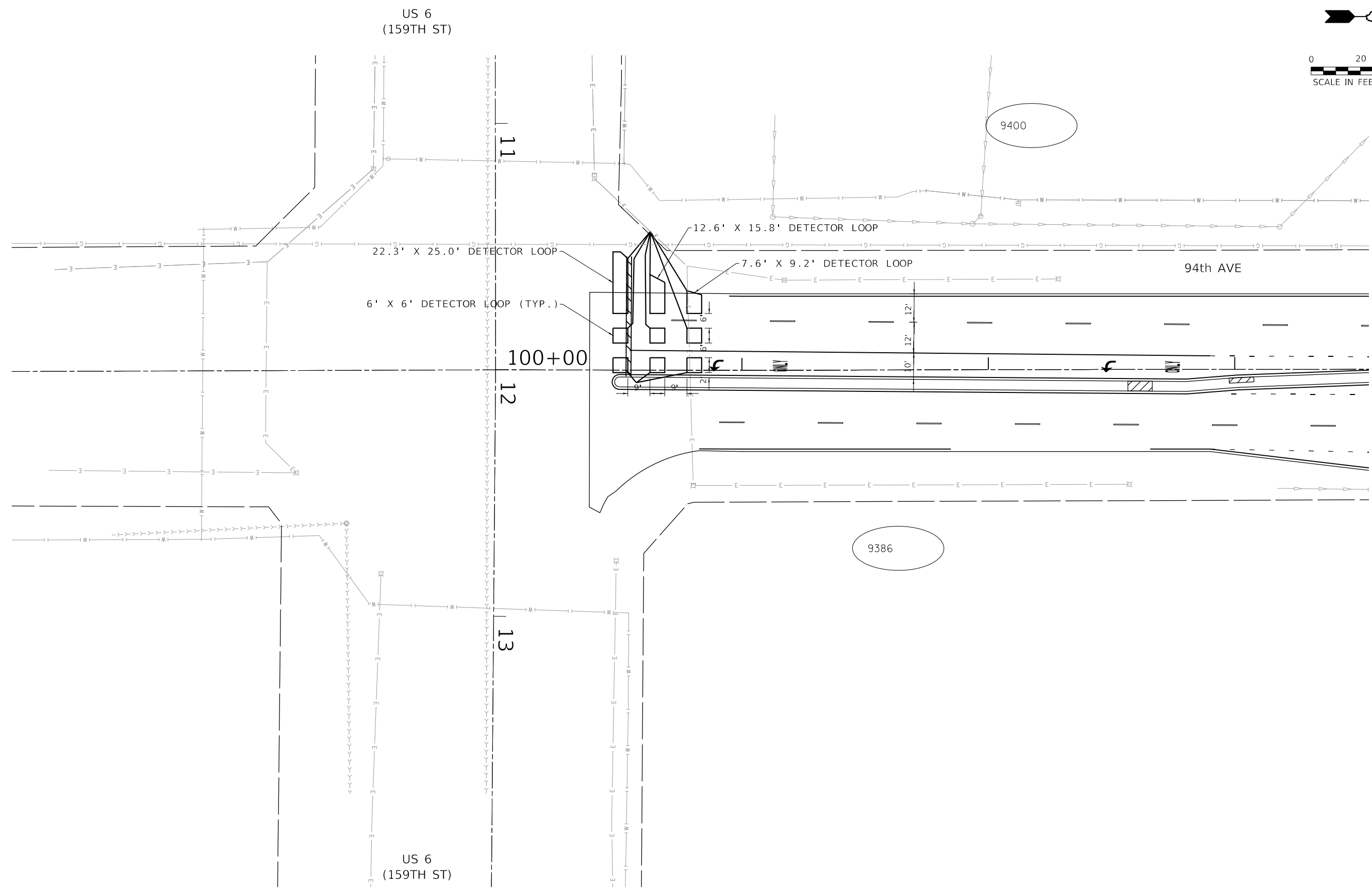
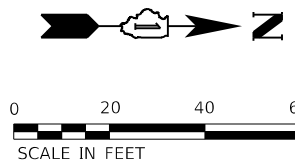


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PLOT DATE = 9/7/2022	DATE - 9/7/2022	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

PAVEMENT MARKING PLANS	
94TH AVENUE	
SCALE: 1" = 50'	SHEET 2 OF 2 SHEETS
STA. 127+00	TO STA. 138+92.71

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	17
CONTRACT NO. 61J00			ILLINOIS FED. AID PROJECT	



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 PEN TABLE: pl_label.tbl



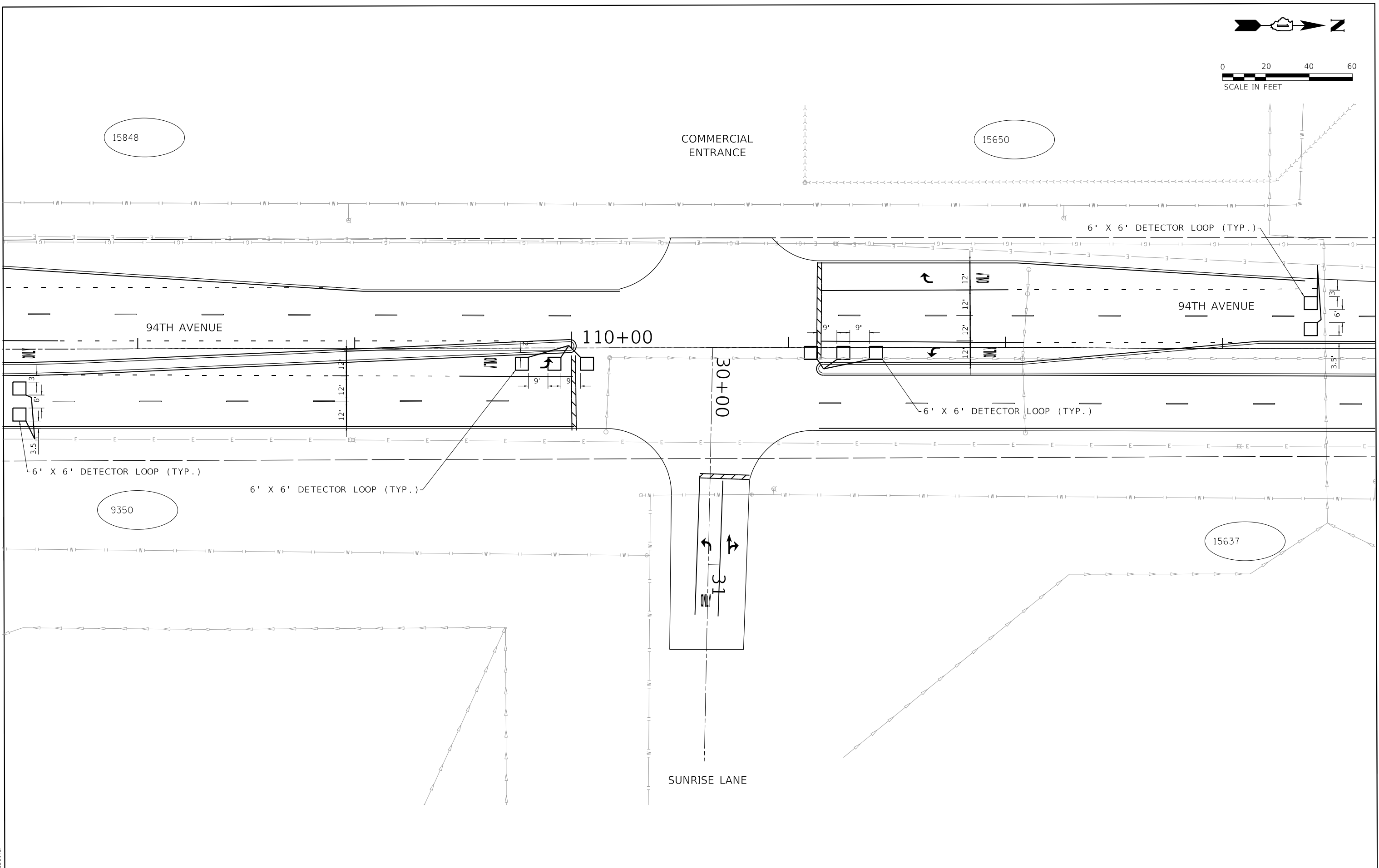
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PLOT DATE = 9/7/2022	DATE - 9/7/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
94TH AVENUE

SCALE: 1" = 20' SHEET 1 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-RS	COOK	32	18
				CONTRACT NO. 61100
ILLINOIS FED. AID PROJECT				



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PEN TABLE: plotlabel.tbl



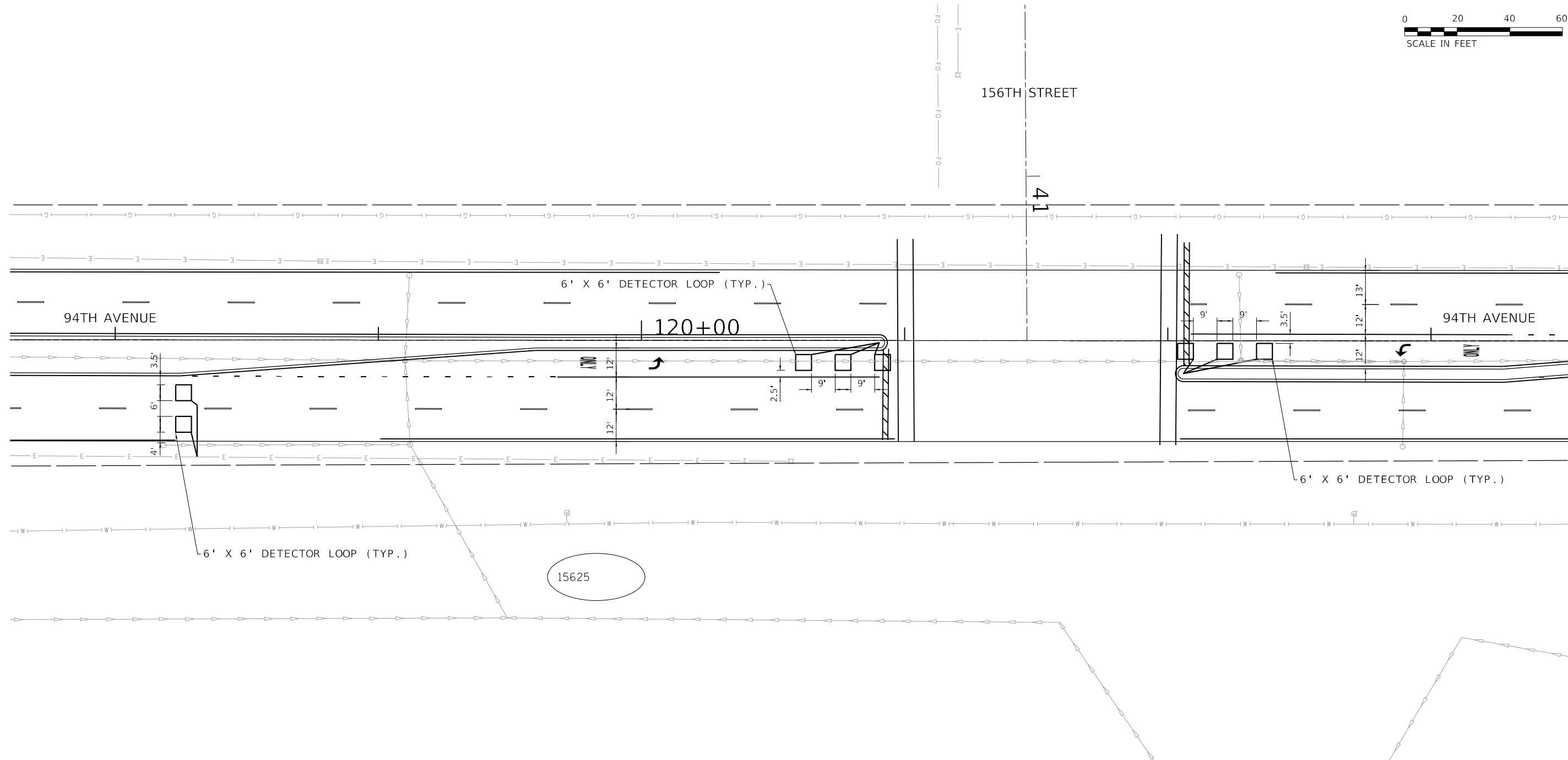
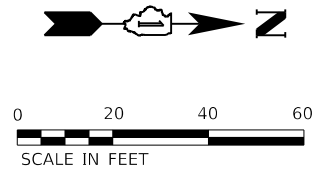
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PLOT DATE = 9/7/2022	DATE - 9/7/2022	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT
94TH AVENUE**

SCALE: 1" = 20' SHEET 2 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-RS	COOK	32	19
				CONTRACT NO. 61J00
ILLINOIS FED. AID PROJECT				



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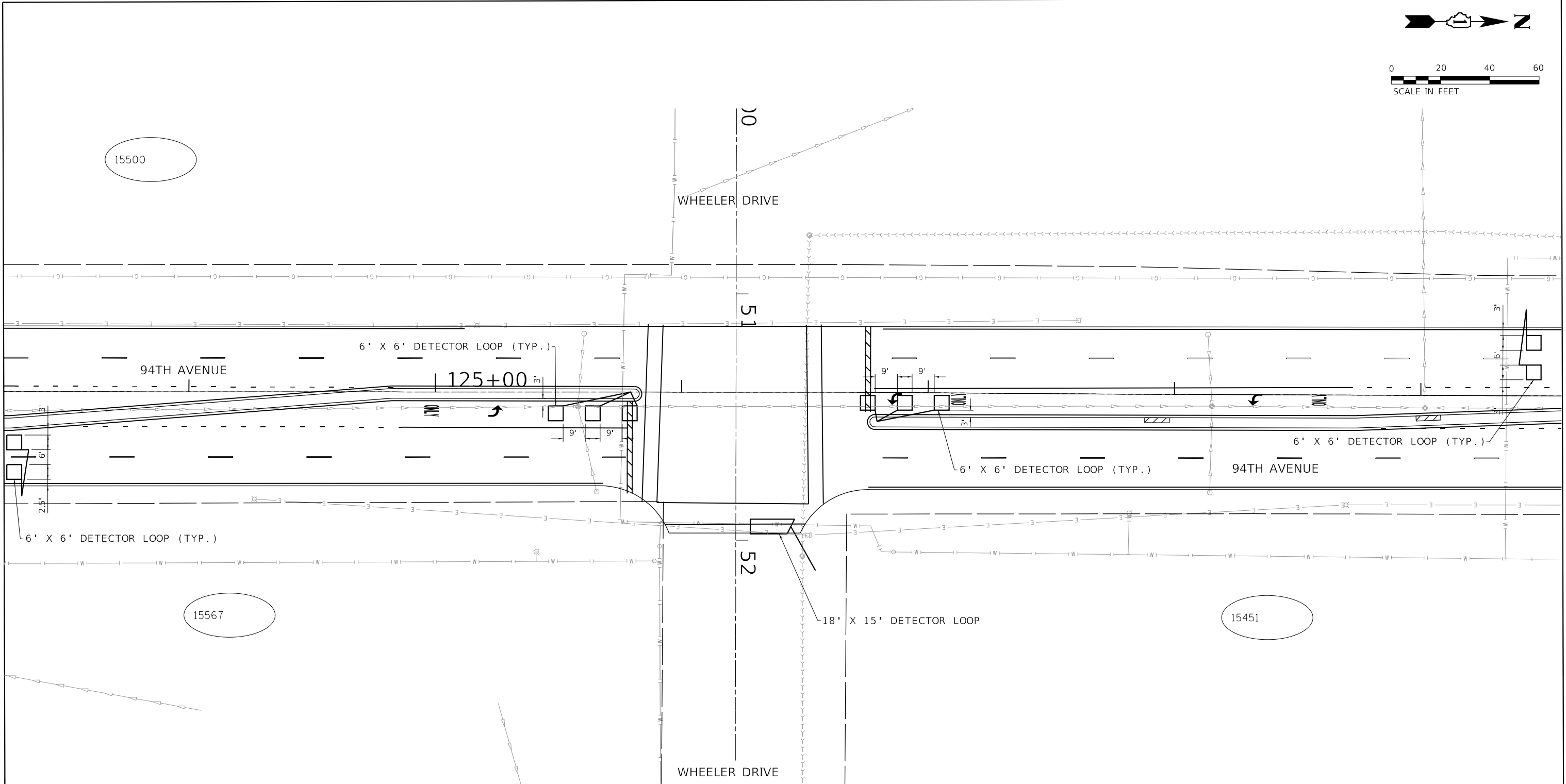
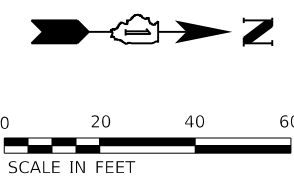


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PLOT DATE = 9/7/2022	DATE - 9/7/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT 94TH AVENUE			
SCALE: 1" = 20'	SHEET 3 OF 5 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-RS	COOK	32	20
CONTRACT NO.				61100
ILLINOIS FED. AID PROJECT				



HRG PROJECT NO: 201072
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 PLOT DRIVER: il_def_bwpltrcg
 PEN TABLE: plolabel.tbl


HRGreen.com
 Illinois Professional Design Firm
 # 184-001322

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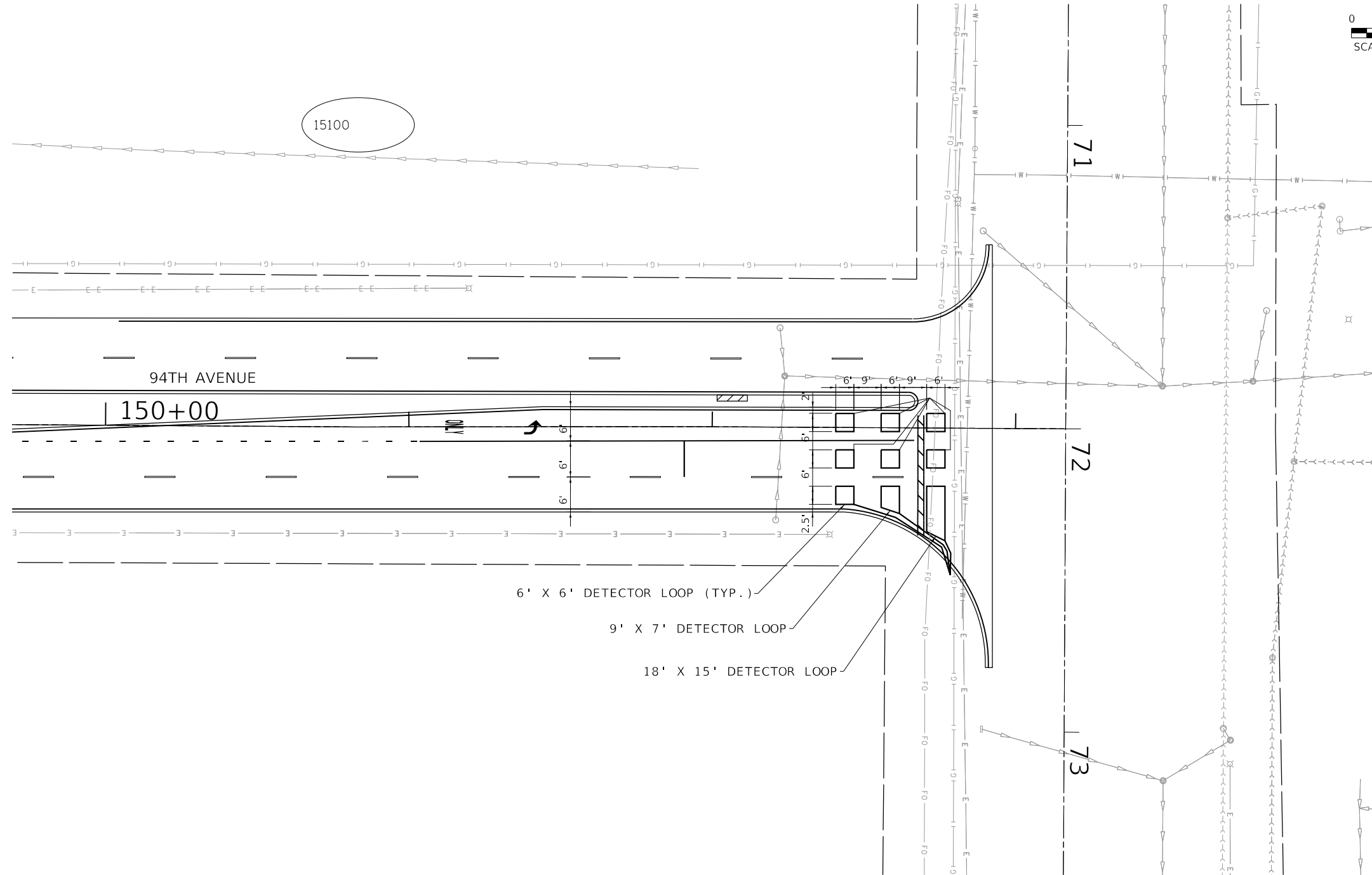
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETECTOR LOOP REPLACEMENT
94TH AVENUE

SCALE: 1" = 20' SHEET 4 OF 5 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-RS	COOK	32	21
				CONTRACT NO. 61100
ILLINOIS FED. AID PROJECT				

151ST STREET



6' X 6' DETECTOR LOOP (TYP.)
 9' X 7' DETECTOR LOOP
 18' X 15' DETECTOR LOOP

151ST STREET

HRG PROJECT NO: 201072
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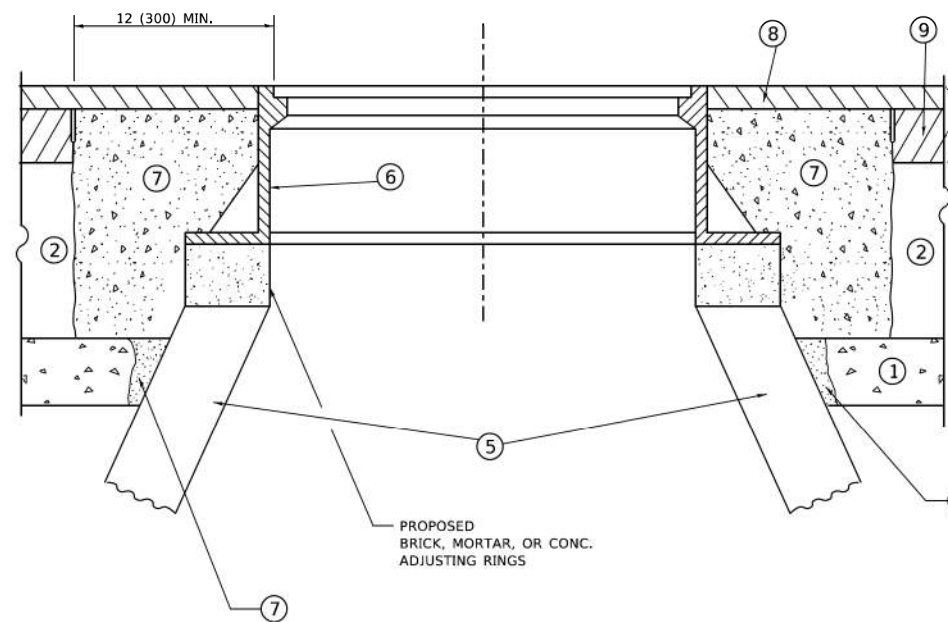
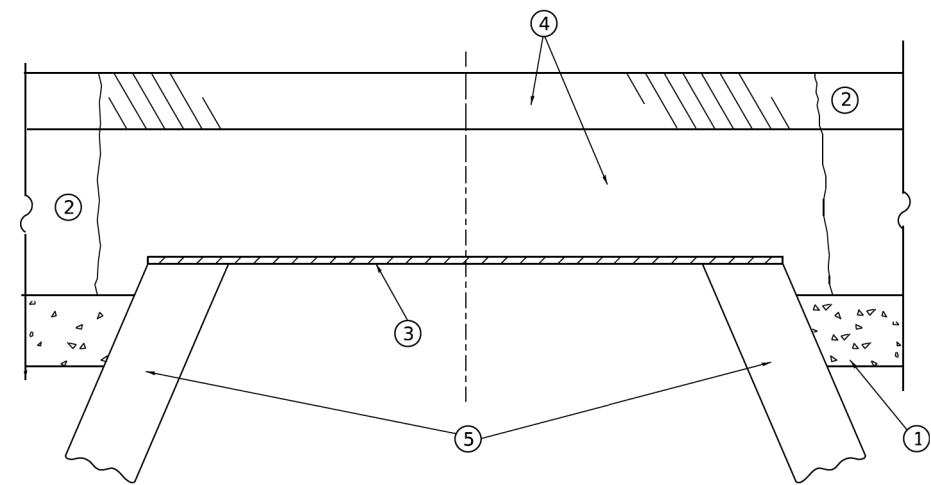
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT
 94TH AVENUE**

SCALE: 1" = 20'	SHEET 5 OF 5 SHEETS	STA. TO STA.
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-RS	COOK	32	22
				CONTRACT NO. 61J00
ILLINOIS FED. AID PROJECT				



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

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

NOTES

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

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

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

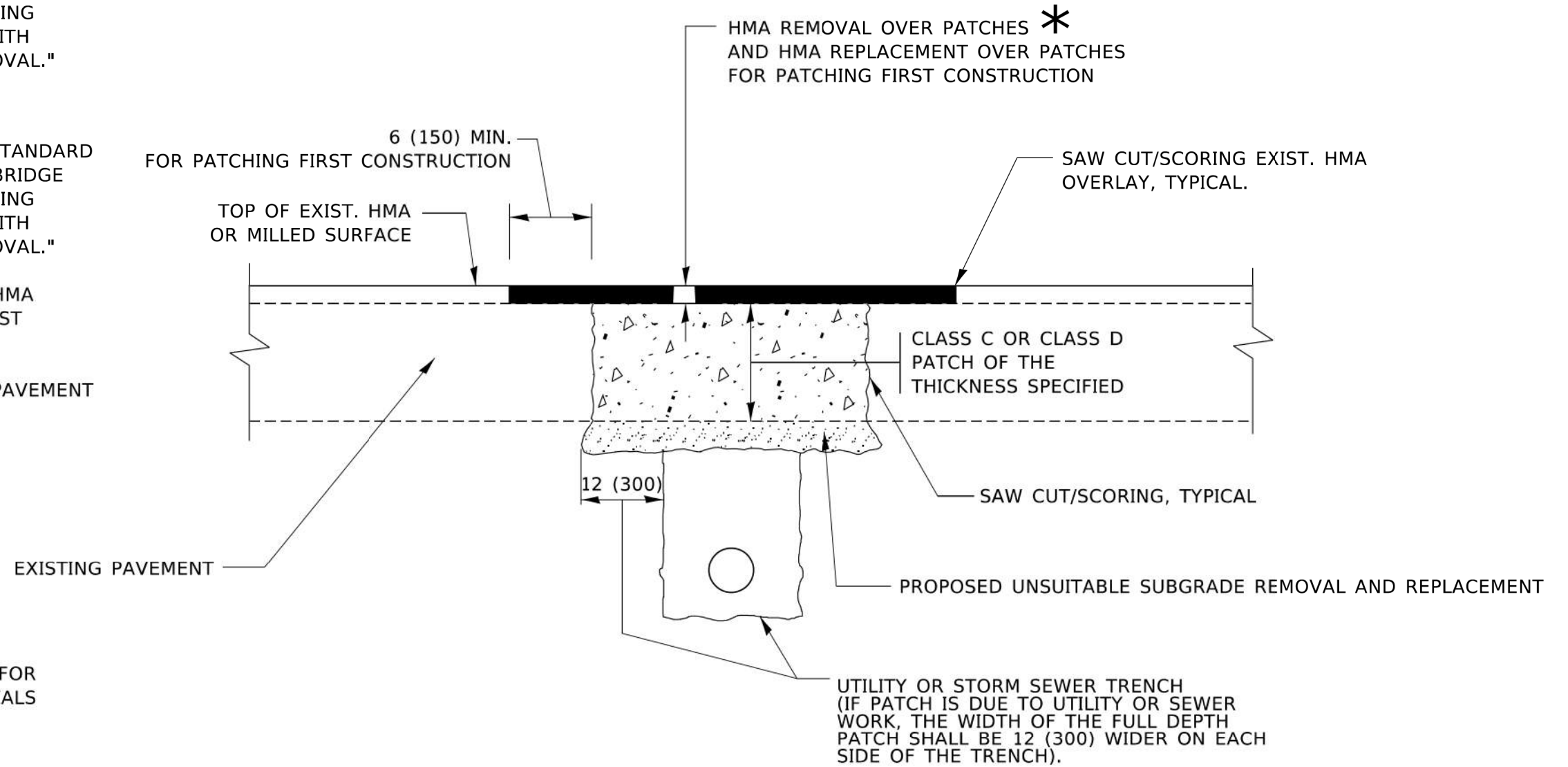
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	23
BD600-03 (BD-08)		CONTRACT NO. 61100		
ILLINOIS FED. AID PROJECT				

METHOD OF MEASUREMENT

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

BASIS OF PAYMENT

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



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

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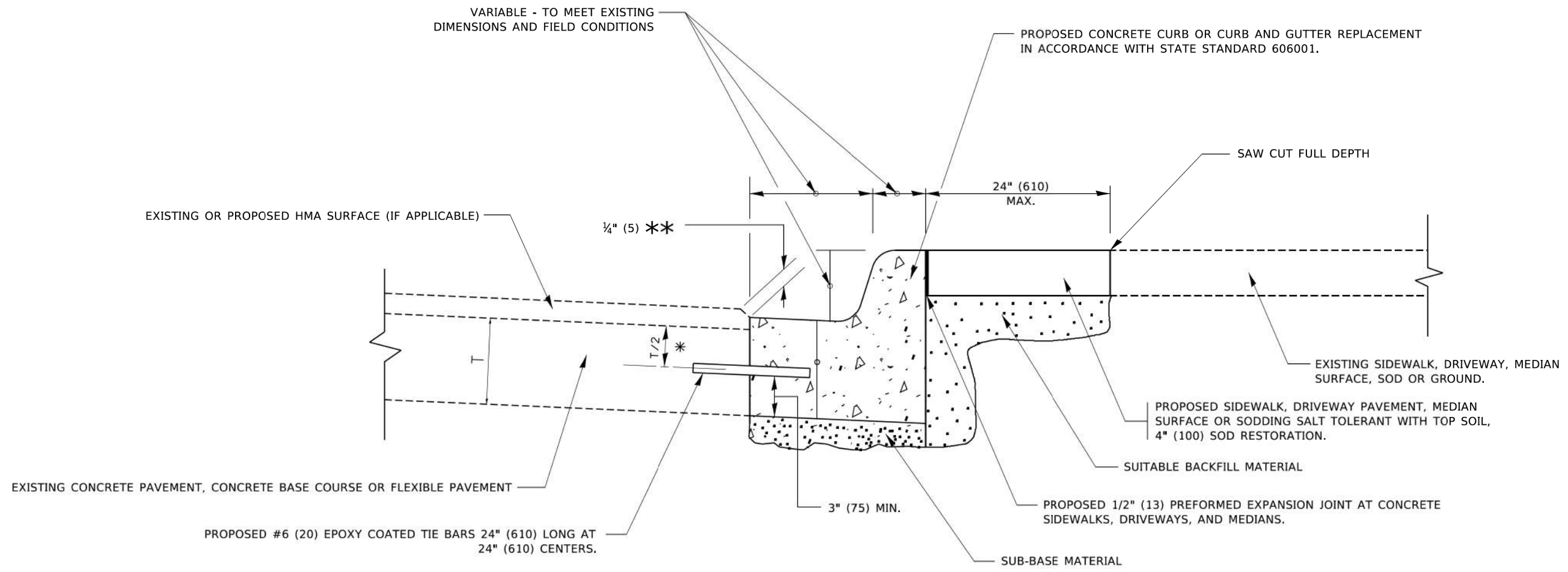
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PLOT DATE = 2/2/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT STANDARDS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	24
BD400-04 (BD-22)		CONTRACT NO. 61100		
ILLINOIS FED. AID PROJECT				



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

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

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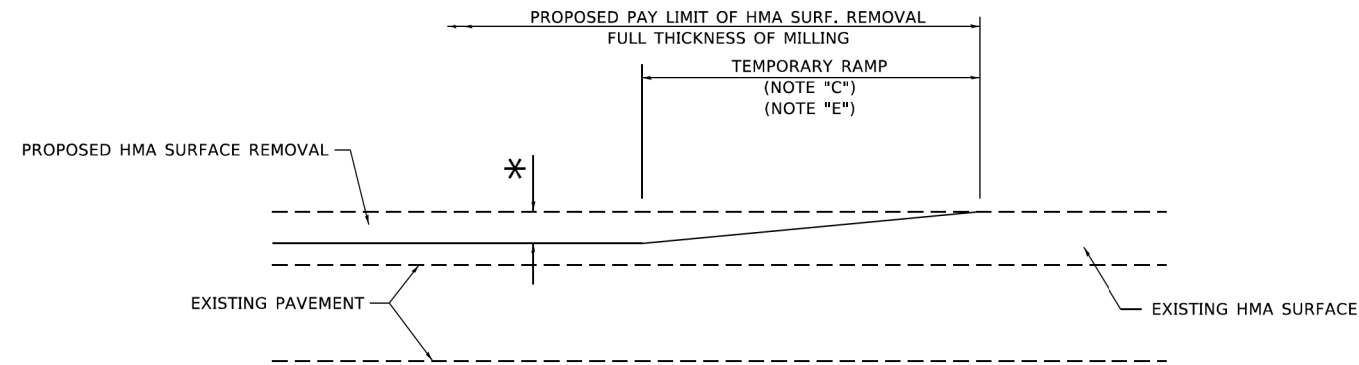
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	DRAWN -	REVISED - M. GOMEZ 01-22-01
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT STANDARDS

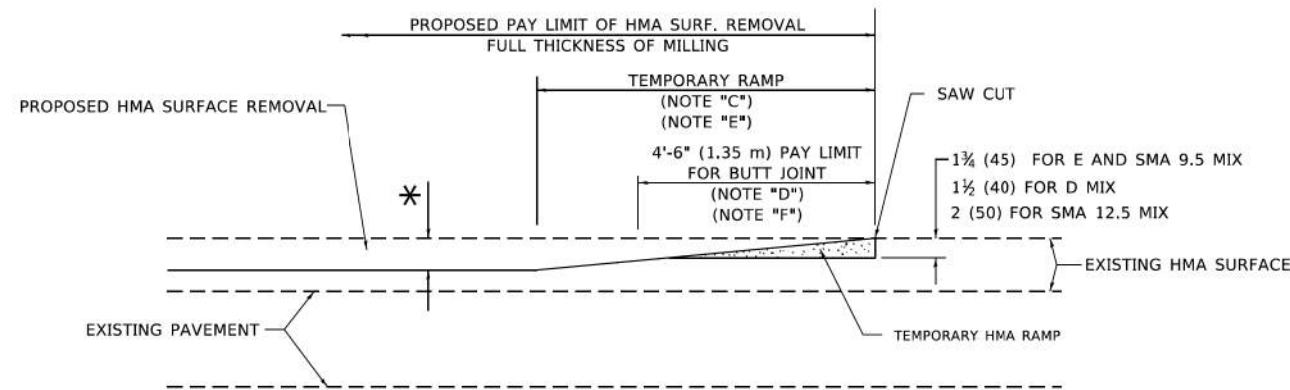
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F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-RS	COOK	32	25
BD600-06 (BD-24)		CONTRACT NO. 61J00		
ILLINOIS FED. AID PROJECT				



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

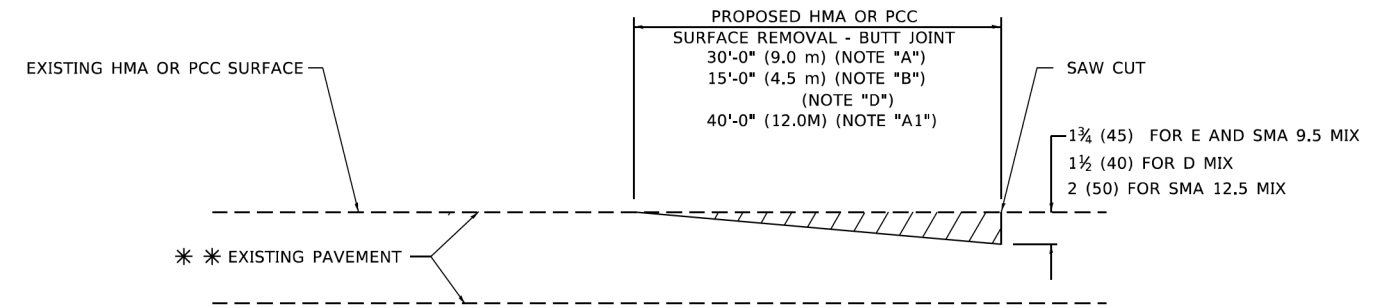
OPTION 1



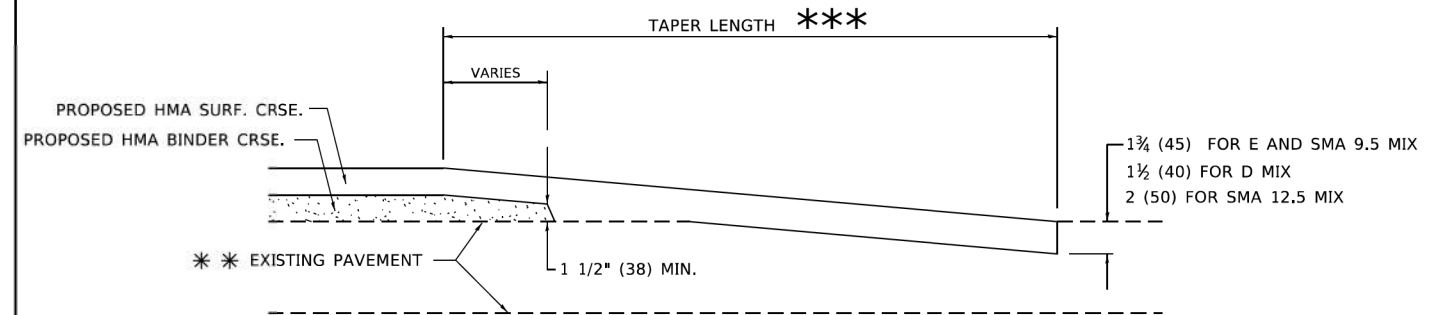
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

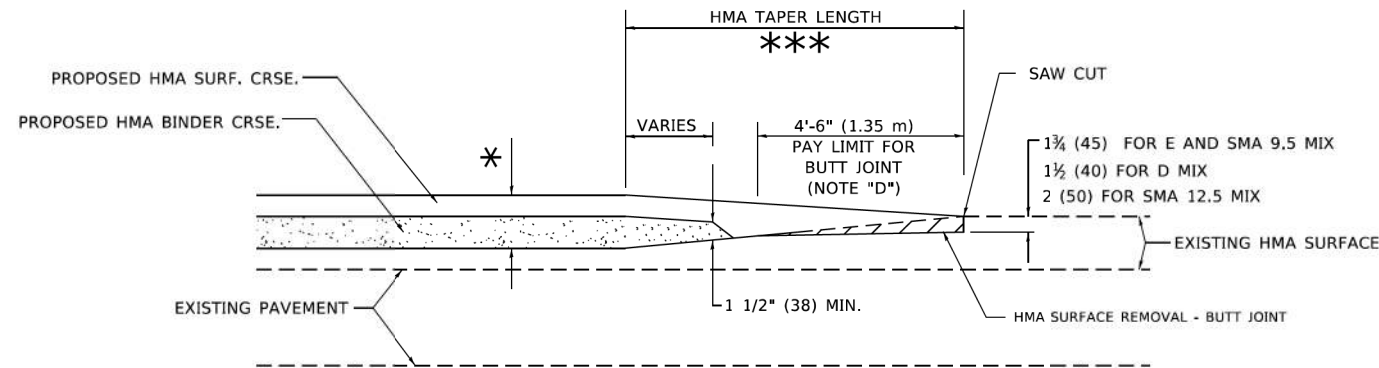
GENERAL NOTES

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

BASIS OF PAYMENT

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

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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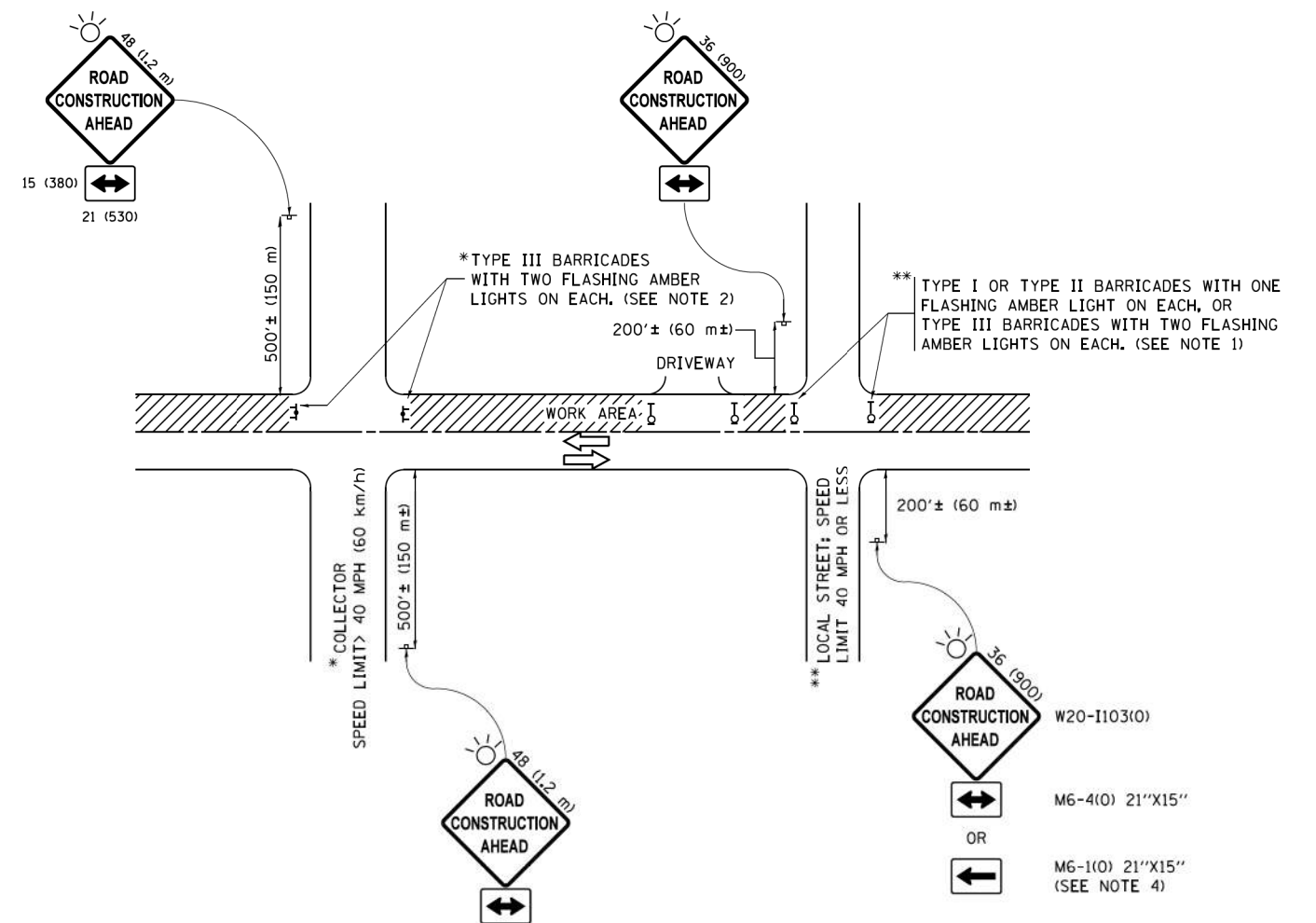
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PLOT DATE = 2/2/2022	DATE - 06-13-90	REVISED - K. SMITH 02-01-22

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT STANDARDS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-R5	COOK	32	26
BD400-05 BD-32		CONTRACT NO. 61100		
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) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

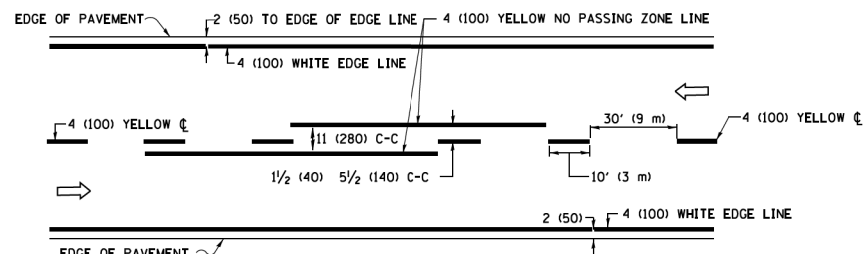
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

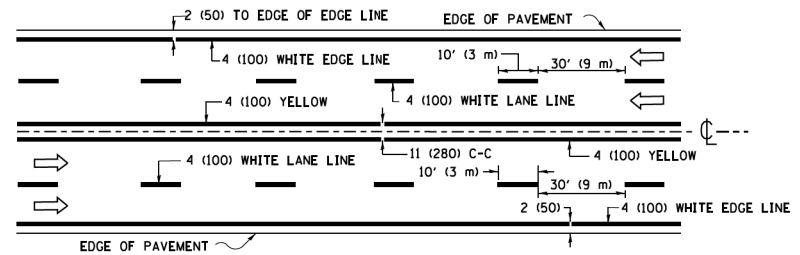
IDOT STANDARDS

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

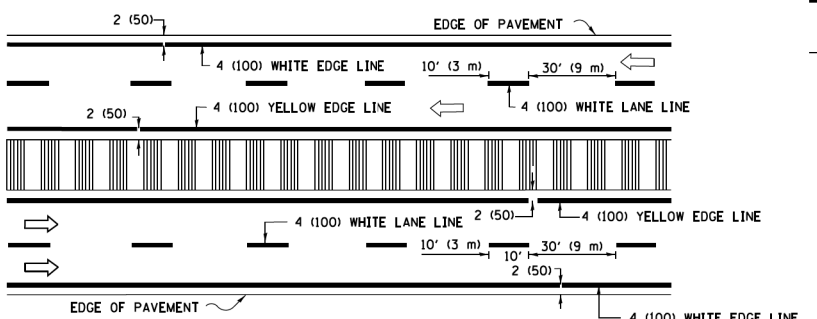
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1986	19-00086-00-RS	COOK	32	27
TC-10			CONTRACT NO.	61100
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

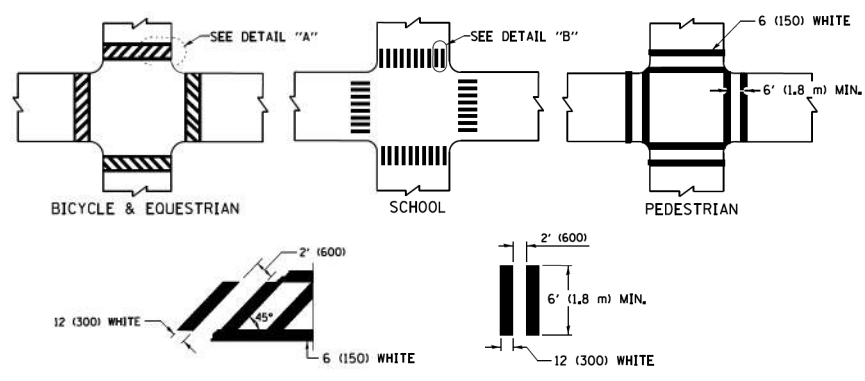


MULTI-LANE UNDIVIDED



MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

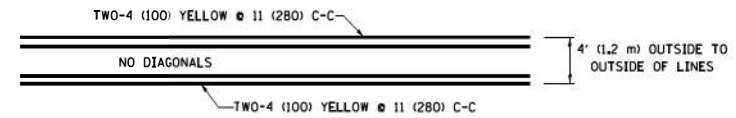


DETAIL "A"

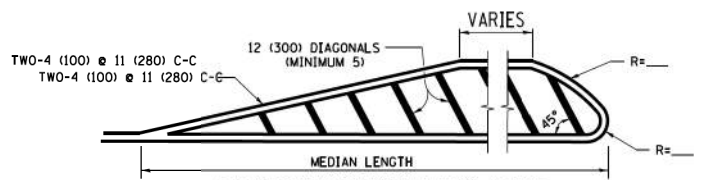
DETAIL "B"

TYPICAL CROSSWALK MARKING

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



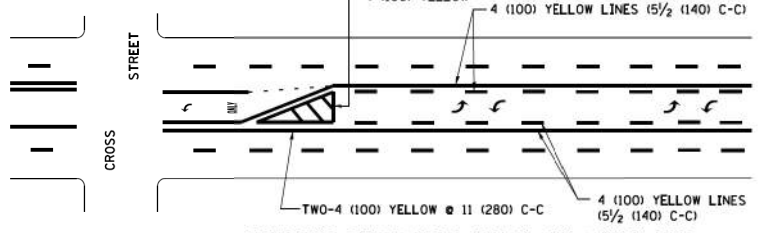
4' (1.2 m) WIDE MEDIANS ONLY



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))

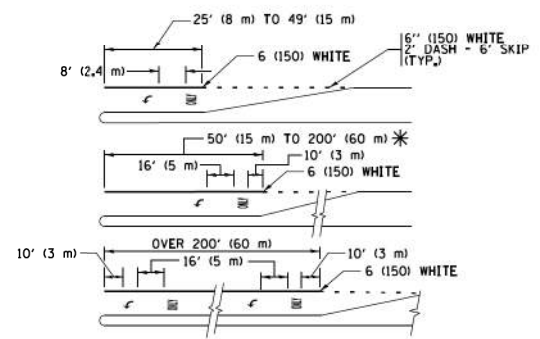
MEDIANS OVER 4' (1.2 m) WIDE



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

MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

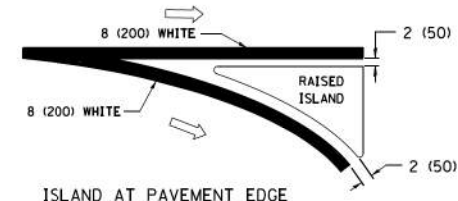
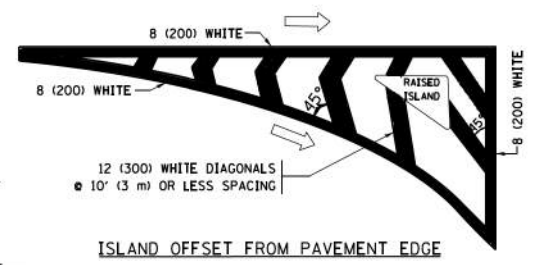


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²)

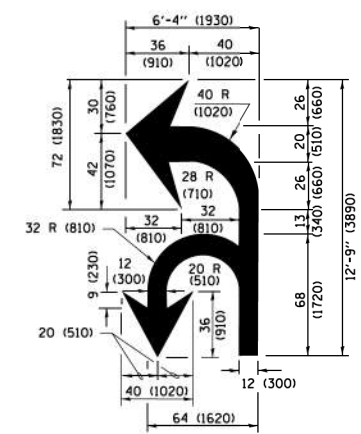
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

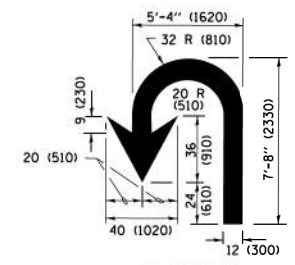
TYPICAL TURN LANE MARKING



TYPICAL ISLAND MARKING



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.
CORE 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 "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"
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.

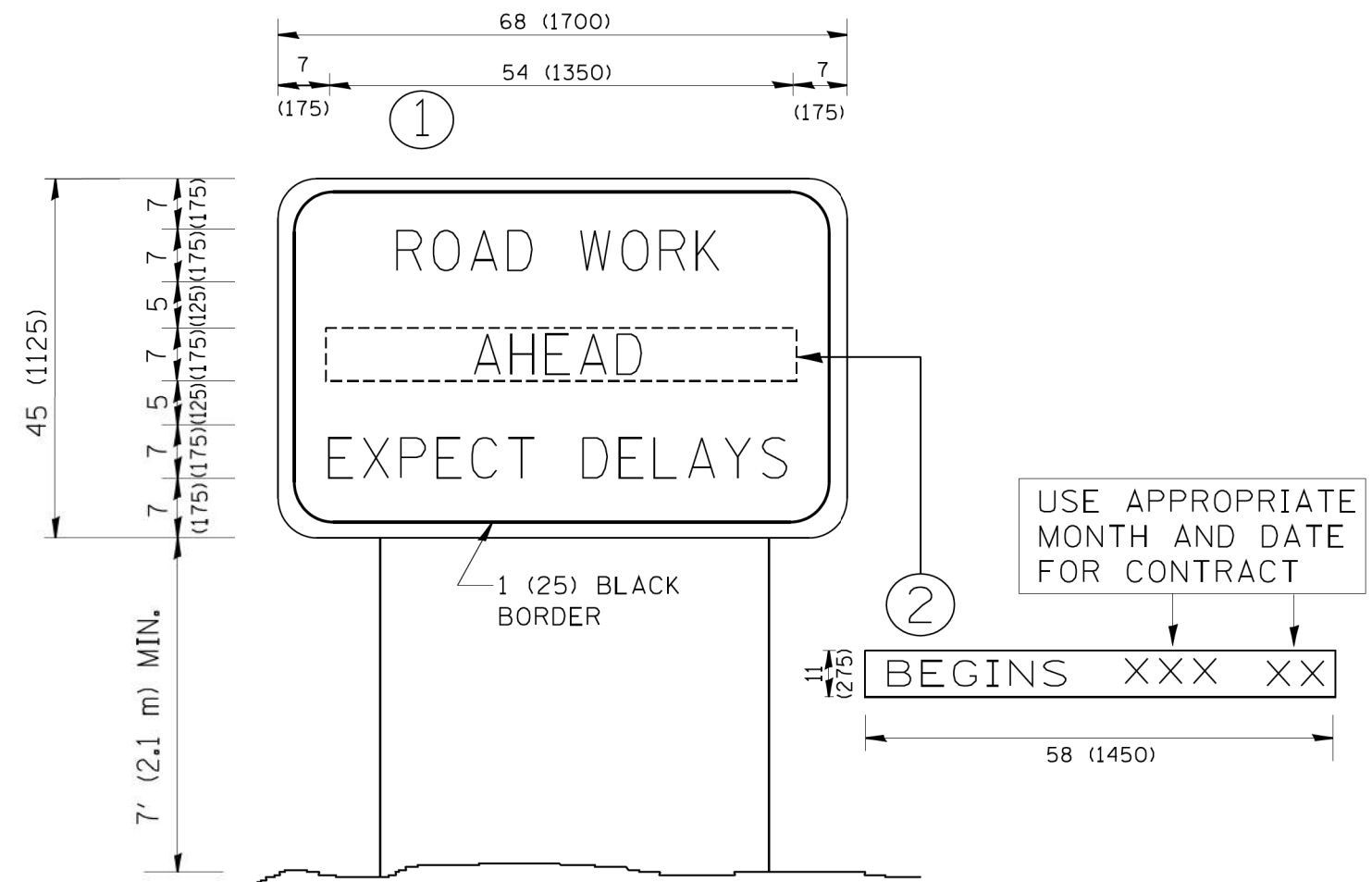
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT STANDARDS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-RS	COOK	32	28
TC-13		CONTRACT NO.	61100	
ILLINOIS/FED. AID PROJECT				



NOTES:

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

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

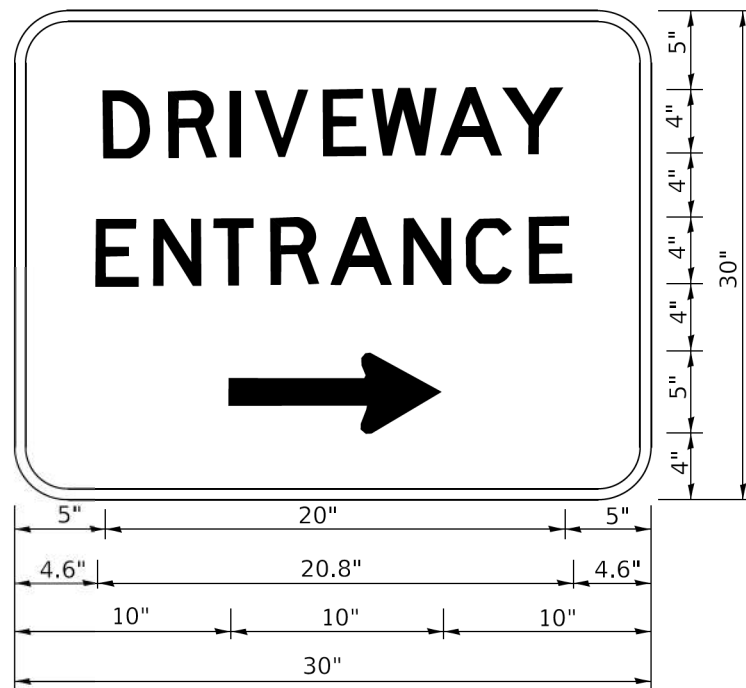
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IDOT STANDARDS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-RS	COOK	32	29
TC-22		CONTRACT NO.	61100	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

NOTES:

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

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IDOT STANDARDS

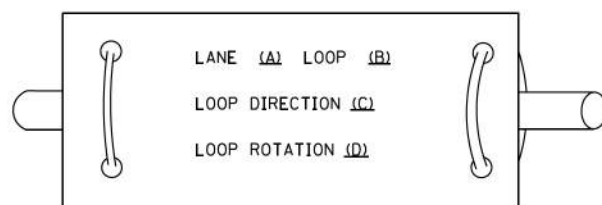
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TC-26		CONTRACT NO. 61J00		
ILLINOIS FED. AID PROJECT				

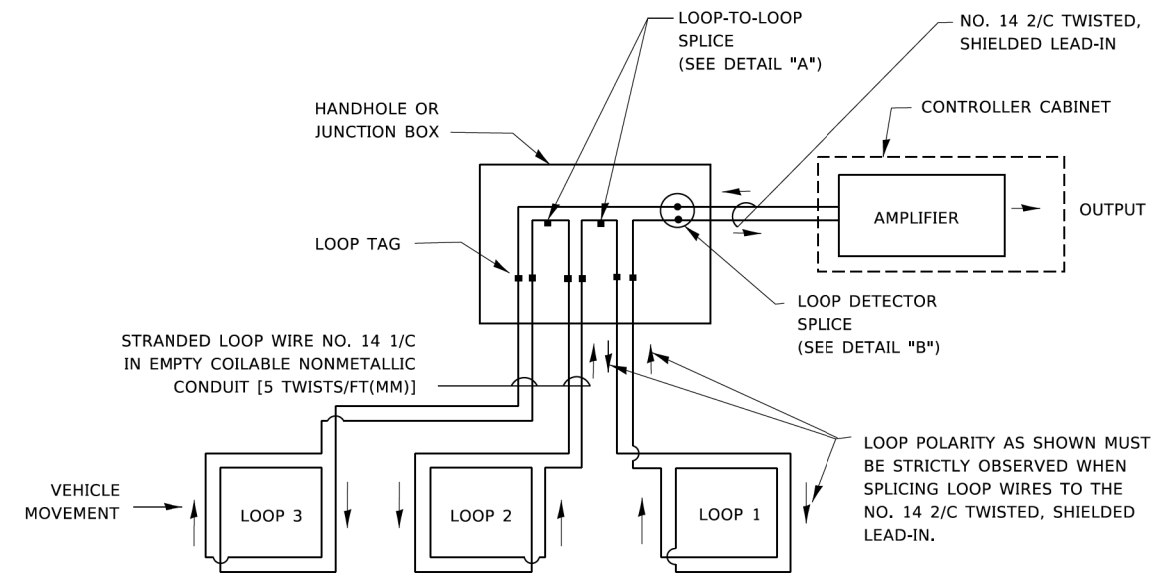
LOOP DETECTOR NOTES

1. 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.
2. 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.
3. 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.
4. ALL LOOP CABLE SHALL BE FASTENED WITH PLASTIC TIE WRAP TO THE HANDHOLE HOOKS.
5. 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.
6. 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.
7. 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.

LOOP LEAD-IN CABLE TAG

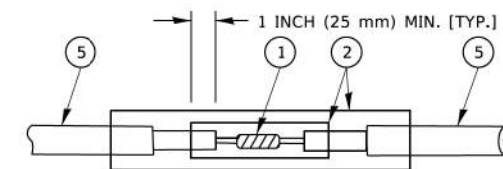


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

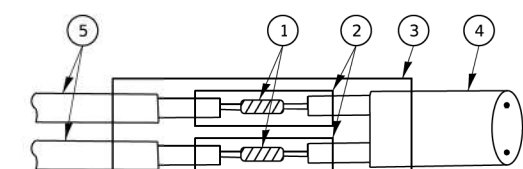


DETECTOR LOOP WIRING SCHEMATIC

- 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.

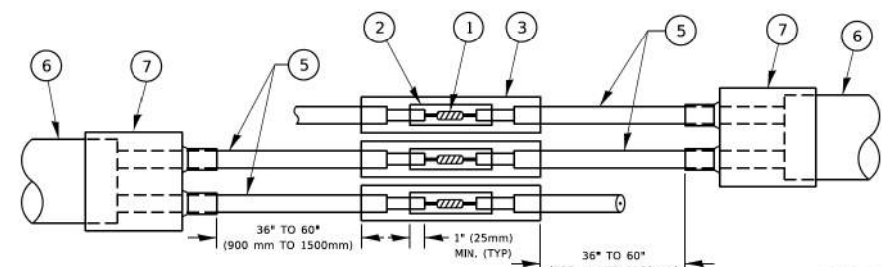


DETAIL "A"
LOOP-TO-LOOP SPLICE

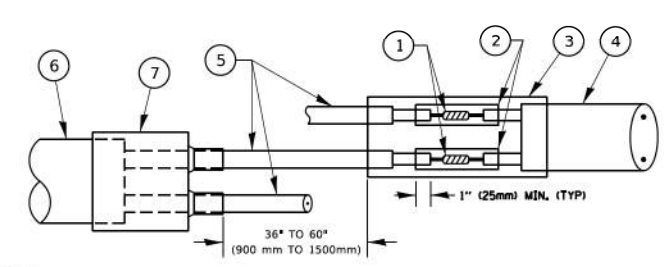


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT STANDARDS

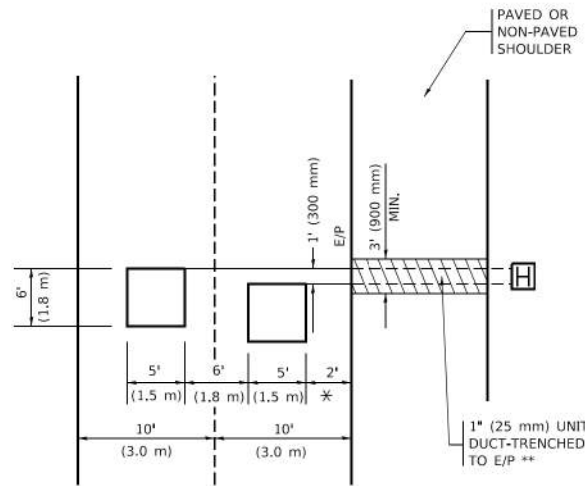
SCALE: NONE SHEET 2 OF 7 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-RS	COOK	32	31
TS-05		CONTRACT NO. 61J00		
ILLINOIS FED. AID PROJECT				

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LOOPS NEXT TO SHOULDERS

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

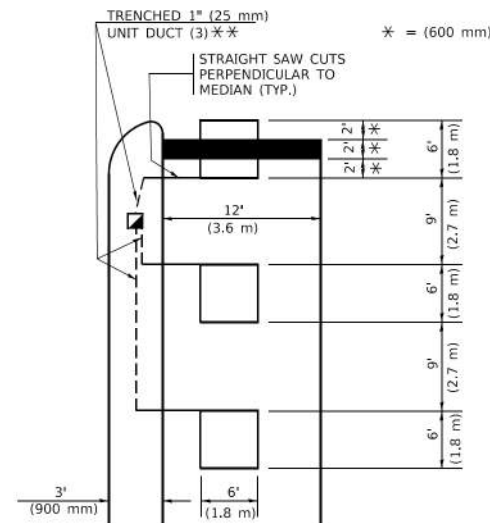


* = (600 mm)

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

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

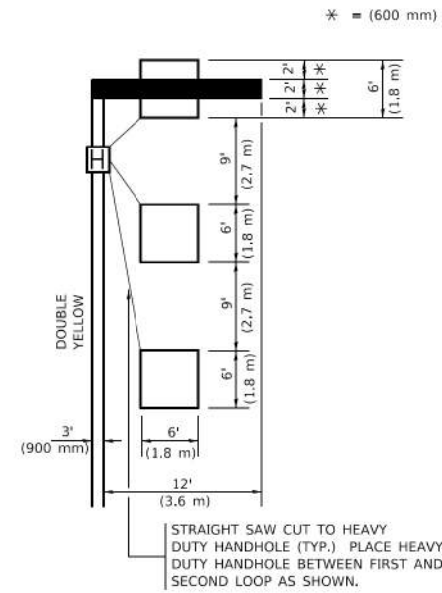
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS. HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE. REFER TO STANDARD 814001 TO ENSURE THAT HANDHOLE FITS IN MEDIAN.



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

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

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



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

NOTES:

VEHICLES LOOP DETECTORS

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

PLACEMENT OF DETECTORS

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

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

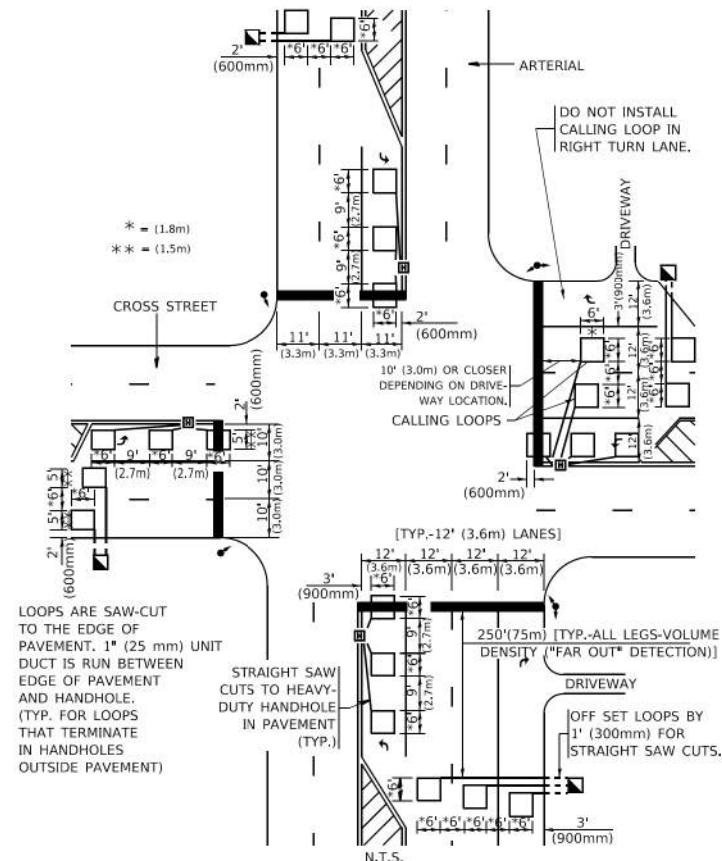
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

NOTE:

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

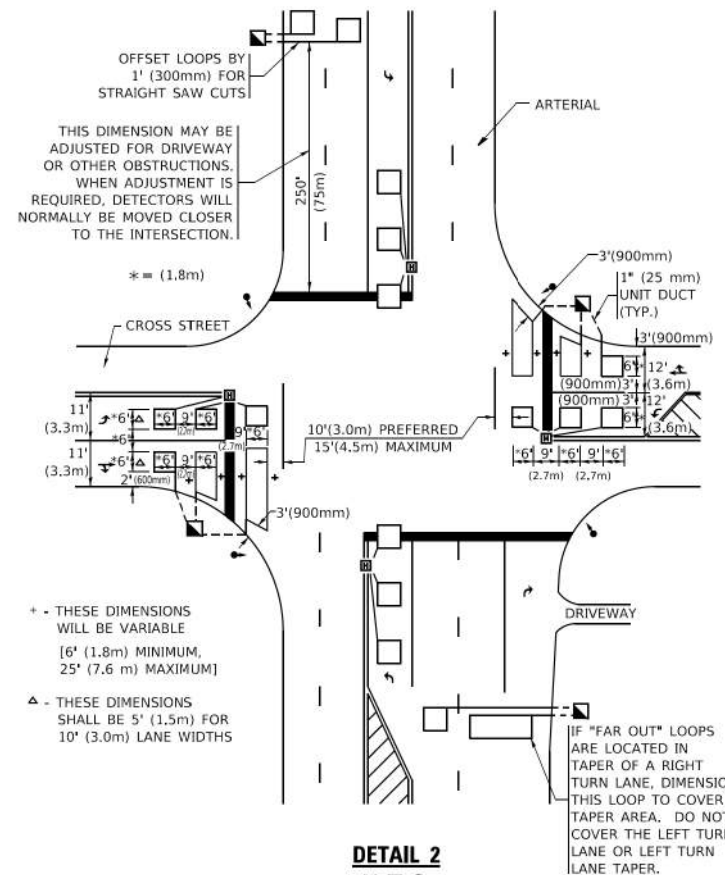
THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

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



DETAIL 1
N.T.S.

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



DETAIL 2
N.T.S.

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USER NAME = footem	DESIGNED -	REVISED -
PLOT SCALE = 50.0000' / 1"	CHECKED - R.K.F.	REVISED -
PLOT DATE = 3/4/2019	DATE - 9/7/2022	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IDOT STANDARDS

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

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1986	19-00086-00-RS	COOK	32	32
TS-07		CONTRACT NO. 61J00		
ILLINOIS		FED. AID PROJECT		