

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. ROUTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	2020-033-RS	WILL	25	1
ILLINOIS			CONTRACT NO. 62L05	

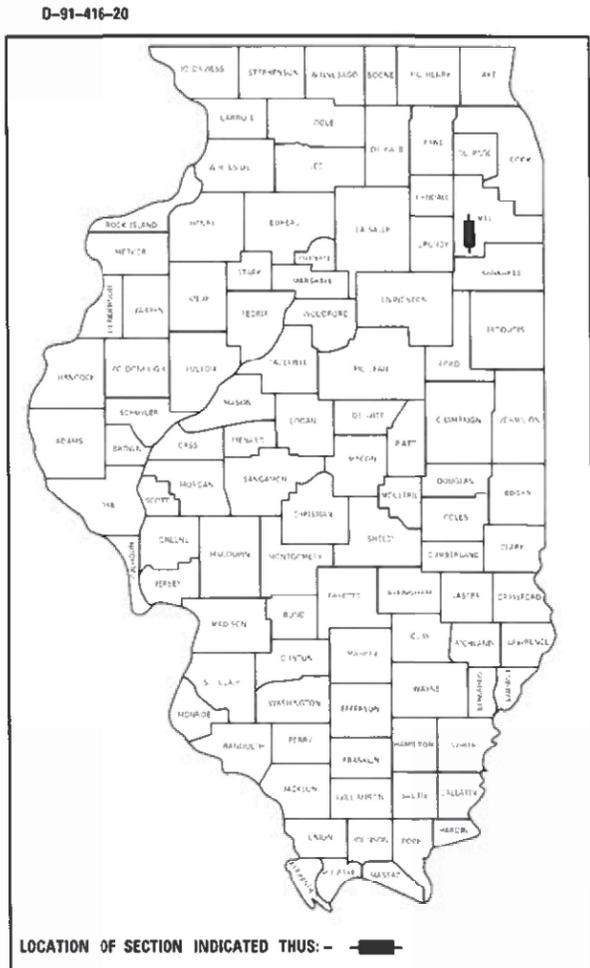
* 25 + 4 = 29 TOTAL SHEETS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

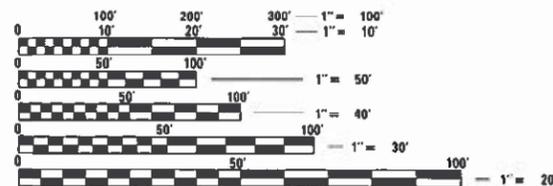
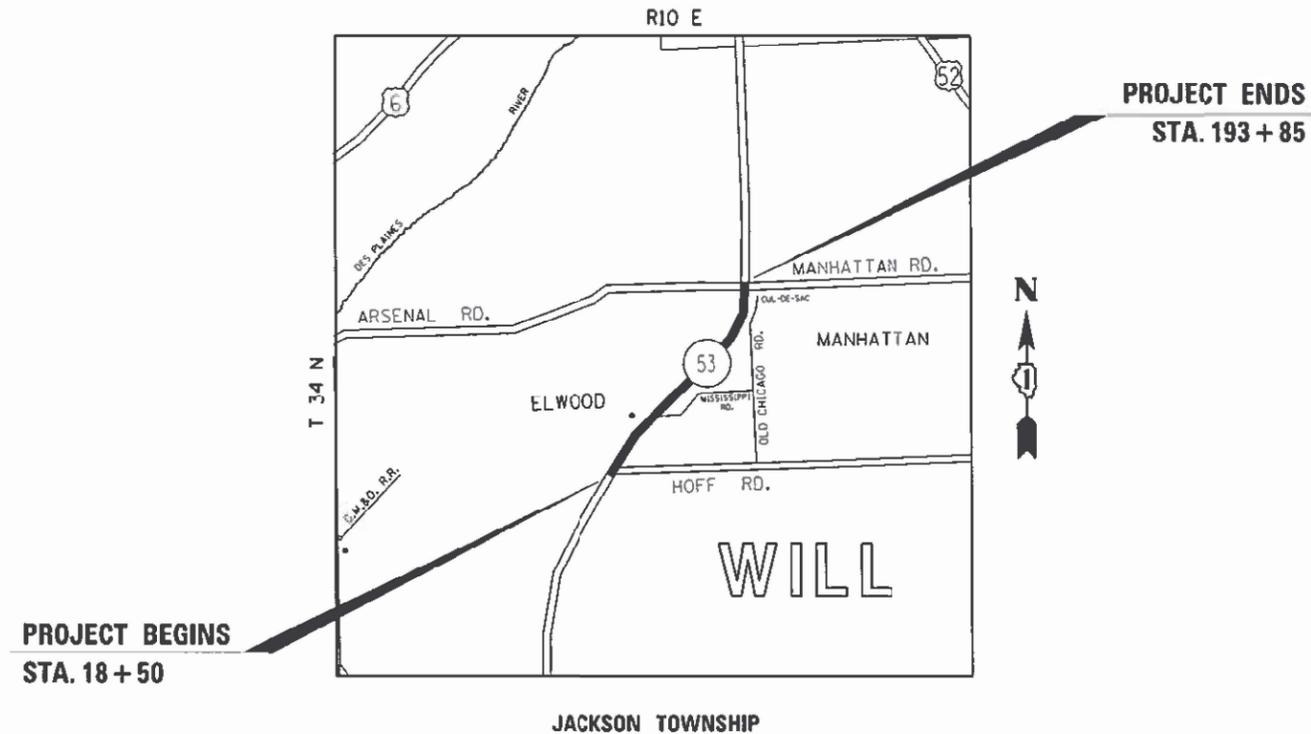
THE PROJECT IS LOCATED IN THE VILLAGE OF ELWOOD

F.A.P. ROUTE 846: IL 53
FROM HOFF ROAD TO MANHATTAN ROAD
SECTION: 2020-033-RS
PROJECT: NHPP-VC9Z(779)
SMART OVERLAY
HMA SHOULDER RUMBLE STRIPS
WILL COUNTY

TRAFFIC DATA: **6,950**
~~IL 102 2019 ADT = 14,800~~
POSTED SPEED LIMIT = 55 MPH



C-91-223-20



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

GROSS AND NET LENGTH = 17,535 FT. = 3.32 MILES

PROJECT MANAGER J. ALAIN MIDY (847) 221-3056

CONTRACT NO. 62L05

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED October 6, 2020
Anthony J. Danzig / ASB
REGIONAL ENGINEER

December 4, 2020
Scott A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

December 4, 2020
James J. ...
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION '13

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OF THE STATE OF ILLINOIS

INDEX OF SHEETS

STATE STANDARDS

GENERAL NOTES

SHEET NO.	DESCRIPTION	STANDARD NO.	DESCRIPTION
1	COVER SHEET	000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS.
2-3	INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES	442201-03	CLASS C AND D PATCHES.
4-5	SUMMARY OF QUANTITIES	482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS.
6	TYPICAL SECTION.	642006-01	SHOULDER RUMBLE STRIPS, 8 IN.
7-13	ROADWAY AND PAVEMENT MARKING PLANS	701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE.
14A-14D	DETECTOR LOOP REPLACEMENT PLANS	701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS . 45 MPH TO 55 MPH.
15	BD-22: PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	701422-10	LANE CLOSURE, MULTILANE, FOR SPEEDS >=45 MPH TO 55 MPH
16	BD-24: CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	701426-09	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS >=45 MPH.
17	BD-32: BUTT JOINT AND HMA TAPER DETAILS	701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN.
18	TC-10: TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS	701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
19	TC-11: TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION.
20	TC-13: DISTRICT ONE TYPICAL PAVEMENT MARKINGS	701901-08	TRAFFIC CONTROL DEVICES.
21	TC-14: TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)		
22	TC-16: PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING		
23	TC-22: ARTERIAL ROAD INFORMATION SIGN		
24	TS-05: DISTRICT 1 - STANDARD TRAFFIC SIGNAL DESIGN DETAILS (SHEET 2 OF 7)		
25	TS-07: DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING		

- BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULIE" AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. (48 HOUR NOTIFICATION REQUIRED)
- THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, WITHIN THE VILLAGE OF ELWOOD.
- FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL CONTACT DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE RESIDENT ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1½ INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1V:3H.
- ANY LOOSE MATERIAL DEPOSITED IN THE FLOW LINE OF CURB OR DRAINAGE STRUCTURES, WHICH OBSTRUCTS THE NATURAL FLOW OF WATER, SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY.
- EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR ACCORDING TO ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS, UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.
- THE CONTRACTOR SHALL USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING ITEMS THAT WILL NOT BE REMOVED INCLUDING PREVIOUSLY SEEDED AREAS. ANY DAMAGE DONE TO EXISTING ITEMS BY THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S OWN EXPENSE TO THE SATISFACTION OF THE ENGINEER.
- LOCATIONS OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT [OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED ON THE PLANS)], WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER / TECHNICIAN.
- CATCH BASINS, MANHOLES, INLETS, DRAINAGE STRUCTURES AND VALVE VAULTS ADJUSTMENT AND/OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER / TECHNICIAN.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE RESIDENT ENGINEER SHALL CONTACT ERIC CAMPOS, AREA TRAFFIC FIELD ENGINEER, VIA E-MAIL AT ERIC.CAMPOS@ILLINOIS.GOV, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

SEE SHEET 3 FOR CONTINUATION

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 53 (HOFF ROAD - MANHATTAN ROAD) INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		846	2020-033-R5	WILL	25	2
SCALE:		SHEET OF SHEETS		STA. TO STA.		ILLINOIS FED. AID PROJECT
				CONTRACT NO. 62L05		

GENERAL NOTES (CONTINUED)

16. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

17. ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.

18. THE GENERAL CONTRACTOR IS REQUIRED TO HIRE AN ENVIRONMENTAL FIRM TO CONTINUOUSLY MONITOR FOR WORKER SAFETY AND SOIL CONTAMINATION AT SEVERAL LOCATIONS. SEE SPECIAL PROVISION AND SUPPLEMENTAL SPECIFICATIONS FOR DETAILS.

19. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

20. THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

21. ALL CAST OPEN LIDS FOR FRAMES, TYPE 1, WITHIN CURB RAMPS FOR SIDEWALK, SHALL BE "ADA COMPLIANT" CAST OPEN LIDS PER HIGHWAY STANDARD 604001.

22. THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY DETECTOR LOOPS DAMAGED DURING CONSTRUCTION.

23. PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER / TECHNICIAN.

24. PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.

25. THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.

26. GAPS BETWEEN SUCCESSIVE LANE CLOSURES SHALL NOT BE LESS THAN 2 MILES (3 KM) IN LENGTH ACCORDING TO ARTICLE 701.05 MAXIMUM LENGTH OF LANE CLOSURE

27. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

28. CONTACT THE IDOT ROADSIDE DEVELOPMENT UNIT 72 HOURS PRIOR TO WEED CONTROL AT (847) 705-4171. WEED CONTROL LOCATIONS WILL BE DETERMINED IN THE FIELD DURING CONSTRUCTION.

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	DRAWN -	REVISED -			846	2020-033-R5	WILL	25	3	
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -			CONTRACT NO. 62L05					
PLOT DATE = 11/19/2020	DATE -	REVISED -			SCALE:	SHEET	OF	SHEETS	STA.	TO STA.

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	52821	52821				
25000750	MOWING	ACRE	15	15				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	353	353				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	293	293				
40601005	HOT-MIX ASPHALT REPLACEMENT OVER PATCHES	TON	1006	1006				
40604172	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "E", N70	TON	11504	11504				
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SO YD	117380	117380				
44002212	HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3"	SO YD	5987	5987				
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	1856	1856				
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	1587	1587				
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SO YD	1856	1856				
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	792	792				
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	35070	35070				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12				
67100100	MOBILIZATION	L SUM	1	1				
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				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	27628	27628				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	9210	9210				
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	1004	1004				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	39930	39930				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	6033	6033				
70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	350	350				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1280	1280				

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**IL ROUTE 53 (HOFF ROAD - MANHATTAN ROAD)
SUMMARY OF QUANTITIES**

SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	2020-033-RS	WILL	25	4
CONTRACT NO. 62L05				
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

REV-SEP

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	505	505				
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	13814	13814				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	1004	1004				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	39930	39930				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	6033	6033				
* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	350	350				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1280	1280				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	505	505				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1126	1126				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	901	901				
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1753	1753				
K0029618	WEED CONTROL BROADLEAF IN TURF	GALLON	10	10				
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	351	351				
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	24407	24407				
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	102.8	102.8				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE				
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	34100	34100				
Z0076600	TRAINEES	HOURS	500	500				
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500				

* SPECIALTY ITEM

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53 (HOFF ROAD - MANHATTAN ROAD)
SUMMARY OF QUANTITIES

SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	2020-033-RS	WILL	25	5
CONTRACT NO. 62L05			REV-SEP	

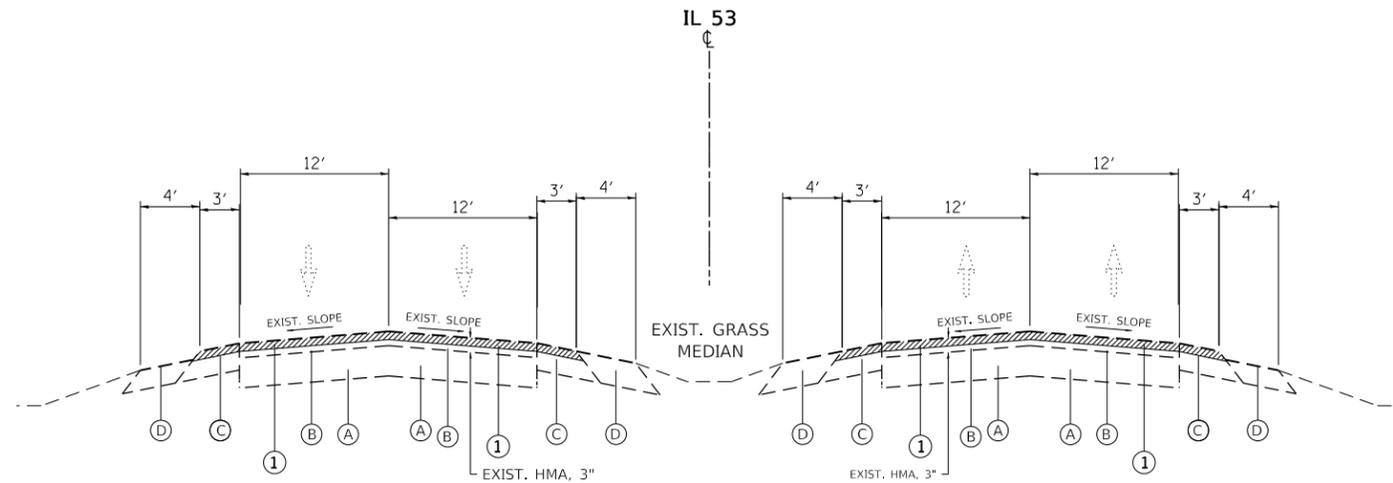
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REV-SEP

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

LEGEND - EXISTING:

- (A) EXIST. PCC PAVEMENT, 10"
- (B) EXIST. HMA AFTER MILLING, 1 1/4"
- (C) EXIST. HMA SHOULDER
- (D) EXIST. AGGREGATE SHOULDER



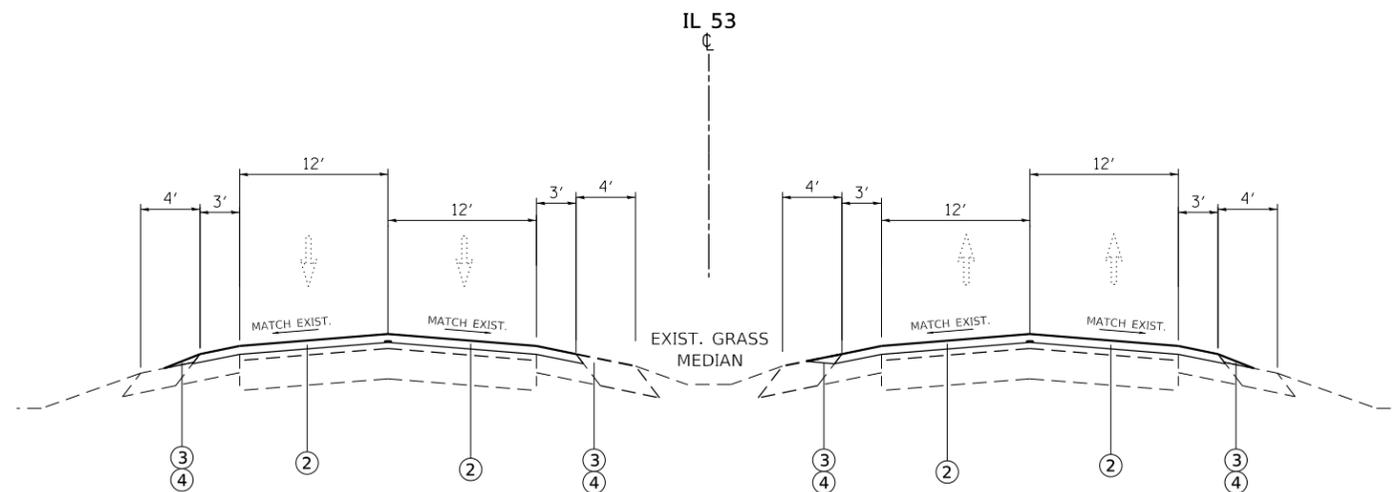
EXISTING TYPICAL SECTION
FROM STA. 18+50 TO 193+85

NOTES:

- 1.) THE CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.
- 2.) LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE

LEGEND - PROPOSED

- ① PROP. HMA SURFACE REMOVAL, 1 3/4"
- ② PROP. POLY. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
- ③ PROP. GRADING AND SHAPING SHOULDERS
- ④ PROP. AGGREGATE WEDGE SHOULDER, TYPE B



PROPOSED TYPICAL SECTION
FROM STA. 18+50 TO 193+85

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RESURFACING		
POLY. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"	4.0% AT 70 GYR	PFP
PATCHING		
CLASS D PATCHES (HMA BINDER IL-19 mm), 10"	4.0% AT 70 GYR	QC/QA
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER IL-19 mm), 3"	4.0% AT 70 GYR.	QC/QA
QMP DESIGNATION: QUALITY CONTROL/QUALITY ASSURANCE (QC/QA); QUALITY CONTROL FOR PERFORMANCE (QCP)		

- NOTE 1: THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.
- NOTE 2: THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY SPECIAL PROVISIONS.
FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
- NOTE 3: QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

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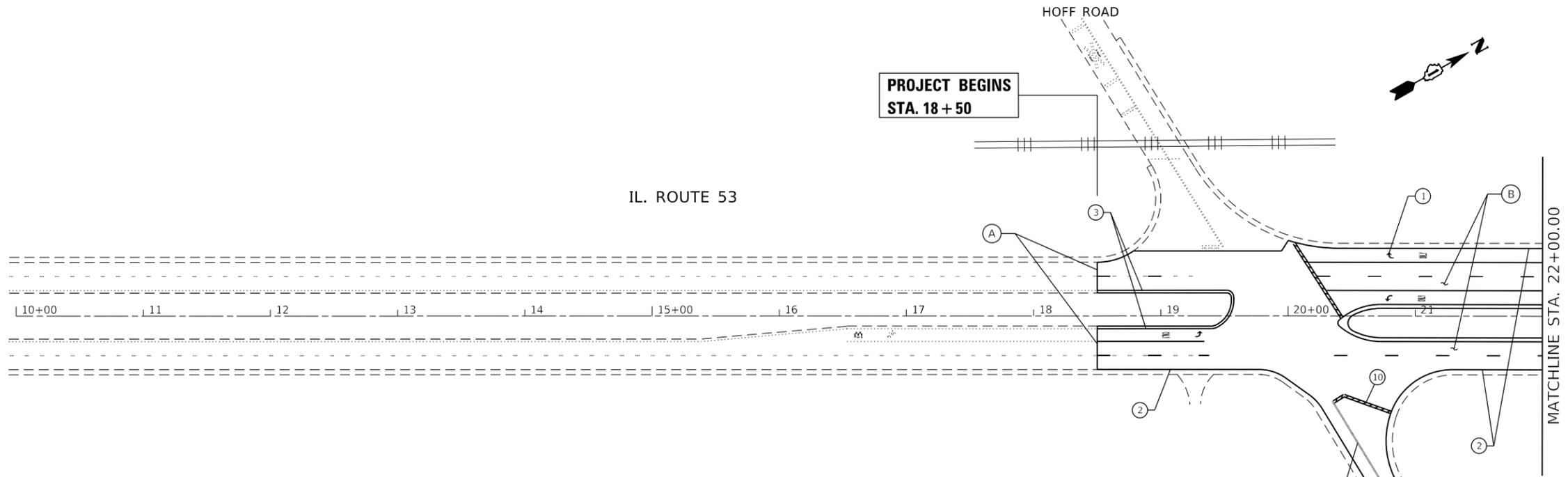
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL ROUTE 53 (HOFF ROAD - MANHATTAN ROAD)
TYPICAL SECTION

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE. 846	SECTION 2020-033-R5	COUNTY WILL	TOTAL SHEETS 25	SHEET NO. 6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62L05	



PROPOSED PAVEMENT STRIPING LEGEND

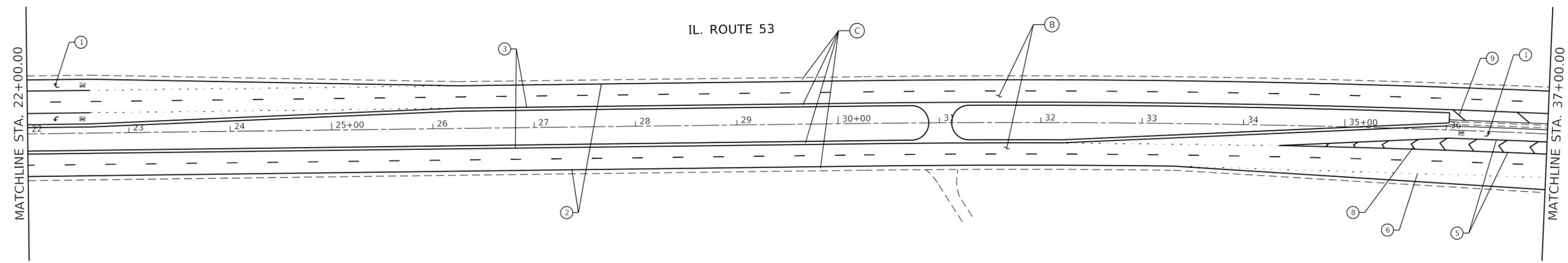
* = THERMOPLASTIC PAVEMENT MARKING -

- | | |
|---------------------------------------------------------------------|-----------------------------------------------------------------|
| ① * LETTERS & SYMBOLS, 8", SOLID, WHITE - TURN LANE MARKINGS (TYP.) | ⑥ * LINE 6" SKIP-DASH WHITE LINE, 2" DASH - 6' SKIP (TYP.) |
| ② * LINE 4" SOLID WHITE LINE (TYP.) | ⑦ * LINE 8" SOLID WHITE GORE BORDER MARKING (TYP.) |
| ③ * LINE 4" SOLID YELLOW LINE (TYP.) | ⑧ * LINE 12" CHANNELIZING CHEVRON, WHITE (TYP.) |
| ④ * LINE 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.) | ⑨ * LINE 12", YELLOW PAINTED MEDIAN DIAGONAL LINES, 45°, (TYP.) |
| ⑤ * LINE 6" SOLID WHITE TURN LANE LINE (TYP.) | ⑩ * LINE 24" SOLID WHITE STOP BAR (TYP.) |

PROPOSED ROADWAY WORK LEGEND

- | |
|--------------------------------------------------------------------------------------------------|
| Ⓐ PROP. HMA SURFACE REMOVAL - BUTT JOINT (TYP.) |
| Ⓑ PROP. HMA SURFACE REMOVAL, 1 3/4" PROP. POLY. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4" |
| Ⓒ PROP. SHOULDER RUMBLE STRIPS, 8 INCH (NOTE: REPLACE EXIST. AT SAME LOCATION) |

ALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS MUST BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13.



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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PLAN
IL. ROUTE 53 (HOFF ROAD TO MANHATTAN ROAD)**

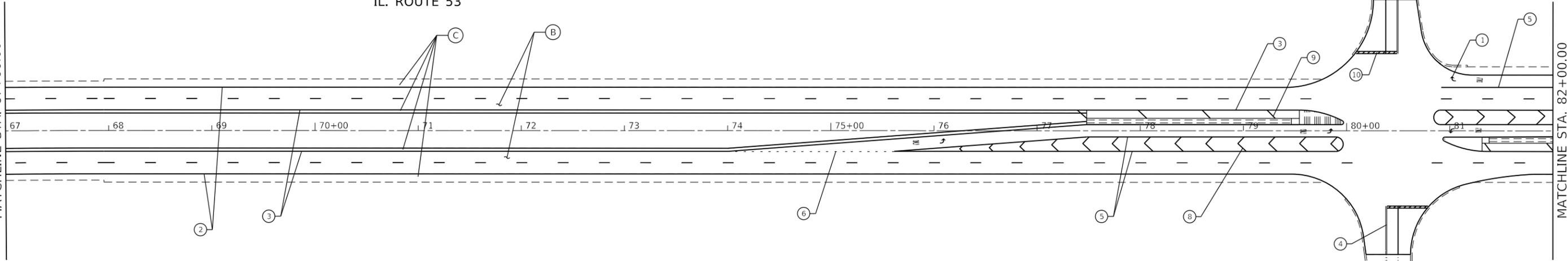
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F.A.P. RTE. 846	SECTION 2020-033-R5	COUNTY WILL	TOTAL SHEETS 25	SHEET NO. 7
ILLINOIS FED. AID PROJECT			CONTRACT NO. 62L05	

MATCHLINE STA. 67+00.00

IL. ROUTE 53

MISSISSIPPI AVENUE



MATCHLINE STA. 82+00.00

PROPOSED PAVEMENT STRIPING LEGEND

* = THERMOPLASTIC PAVEMENT MARKING -

- ① * LETTERS & SYMBOLS, 8', SOLID, WHITE - TURN LANE MARKINGS (TYP.)
- ② * LINE 4" SOLID WHITE LINE (TYP.)
- ③ * LINE 4" SOLID YELLOW LINE (TYP.)
- ④ * LINE 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)
- ⑤ * LINE 6" SOLID WHITE TURN LANE LINE (TYP.)
- ⑥ * LINE 6" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)
- ⑦ * LINE 8" SOLID WHITE GORE BORDER MARKING (TYP.)
- ⑧ * LINE 12" CHANNELIZING CHEVRON, WHITE (TYP.)
- ⑨ * LINE 12", YELLOW PAINTED MEDIAN DIAGONAL LINES, 45°, (TYP.)
- ⑩ * LINE 24" SOLID WHITE STOP BAR (TYP.)

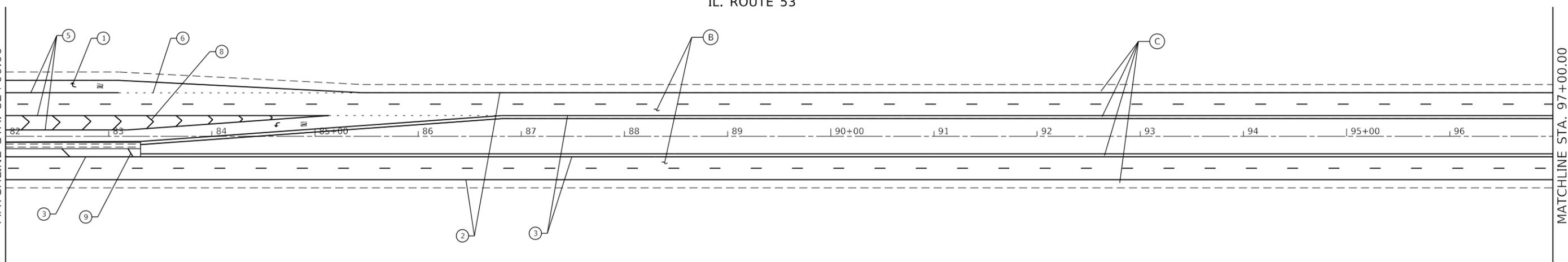
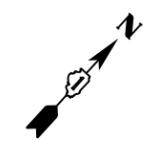
PROPOSED ROADWAY WORK LEGEND

- Ⓐ PROP. HMA SURFACE REMOVAL - BUTT JOINT (TYP.)
- Ⓑ PROP. HMA SURFACE REMOVAL, 1 3/4" PROP. POLY. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
- Ⓒ PROP. SHOULDER RUMBLE STRIPS, 8 INCH (NOTE: REPLACE EXIST. AT SAME LOCATION)

ALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS MUST BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13.

MATCHLINE STA. 82+00.00

IL. ROUTE 53



MATCHLINE STA. 97+00.00

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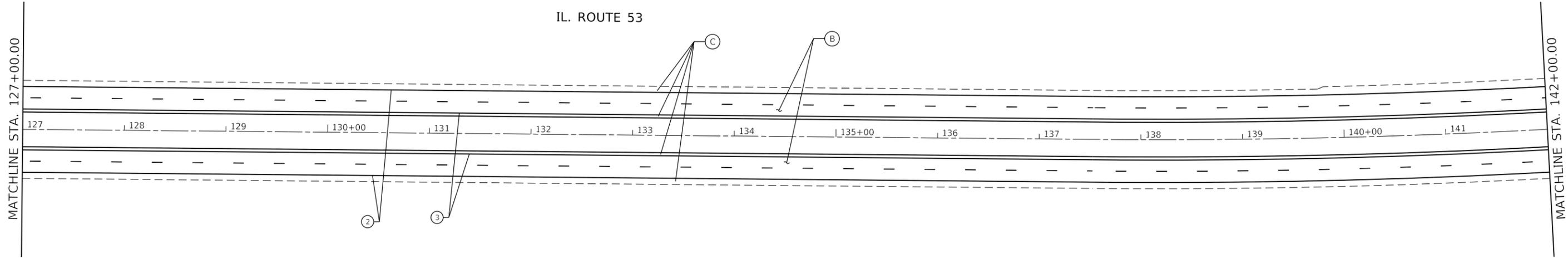
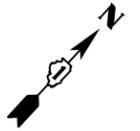
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PLAN
IL. ROUTE 53 (HOFF ROAD TO MANHATTAN ROAD)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	2020-033-R5	WILL	25	9
CONTRACT NO. 62L05				
ILLINOIS FED. AID PROJECT				



PROPOSED PAVEMENT STRIPING LEGEND

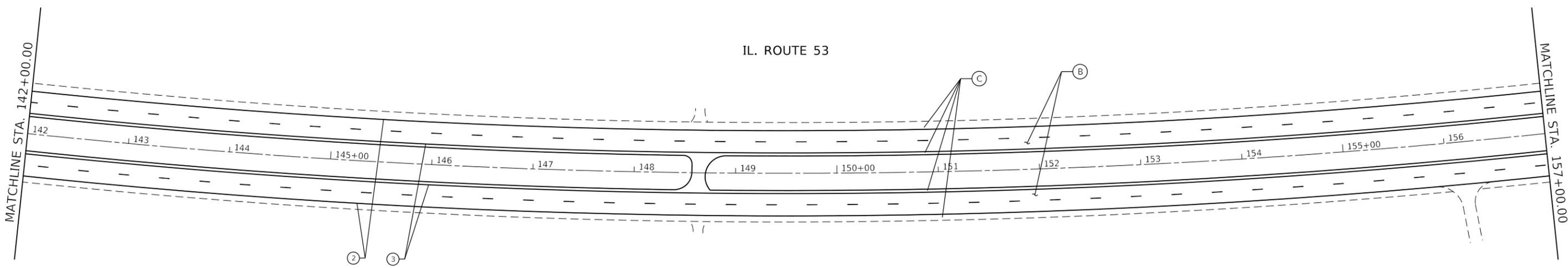
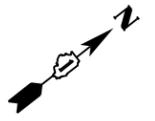
* = THERMOPLASTIC PAVEMENT MARKING -

- ① * LETTERS & SYMBOLS, 8', SOLID, WHITE - TURN LANE MARKINGS (TYP.)
- ② * LINE 4" SOLID WHITE LINE (TYP.)
- ③ * LINE 4" SOLID YELLOW LINE (TYP.)
- ④ * LINE 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)
- ⑤ * LINE 6" SOLID WHITE TURN LANE LINE (TYP.)
- ⑥ * LINE 6" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)
- ⑦ * LINE 8" SOLID WHITE GORE BORDER MARKING (TYP.)
- ⑧ * LINE 12" CHANNELIZING CHEVRON, WHITE (TYP.)
- ⑨ * LINE 12", YELLOW PAINTED MEDIAN DIAGONAL LINES, 45°, (TYP.)
- ⑩ * LINE 24" SOLID WHITE STOP BAR (TYP.)

PROPOSED ROADWAY WORK LEGEND

- Ⓐ PROP. HMA SURFACE REMOVAL - BUTT JOINT (TYP.)
- Ⓑ PROP. HMA SURFACE REMOVAL, 1 3/4" PROP. POLY. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
- Ⓒ PROP. SHOULDER RUMBLE STRIPS, 8 INCH (NOTE: REPLACE EXIST. AT SAME LOCATION)

ALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS MUST BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13.



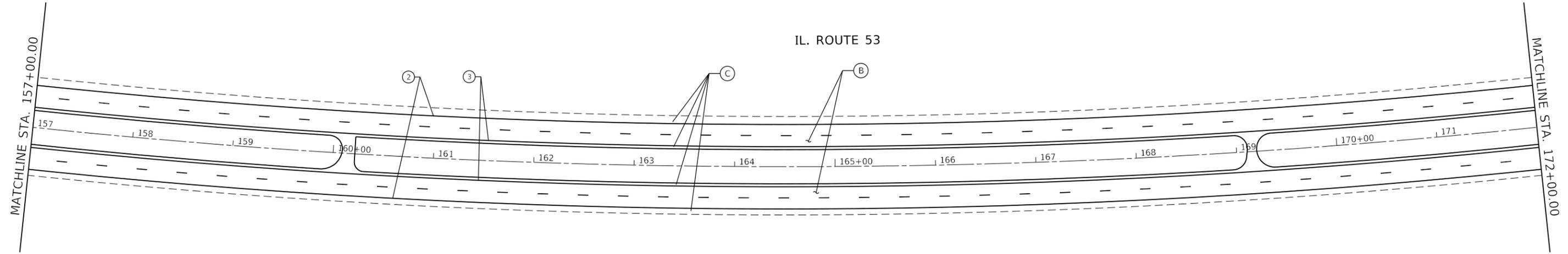
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PLOT DATE = 11/19/2020	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

EXISTING AND PROPOSED ROADWAY PLAN IL. ROUTE 53 (HOFF ROAD TO MANHATTAN ROAD)			
SCALE: 1"= 50'	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	2020-033-R5	WILL	25	11
CONTRACT NO. 62L05				
ILLINOIS FED. AID PROJECT				



PROPOSED PAVEMENT STRIPING LEGEND

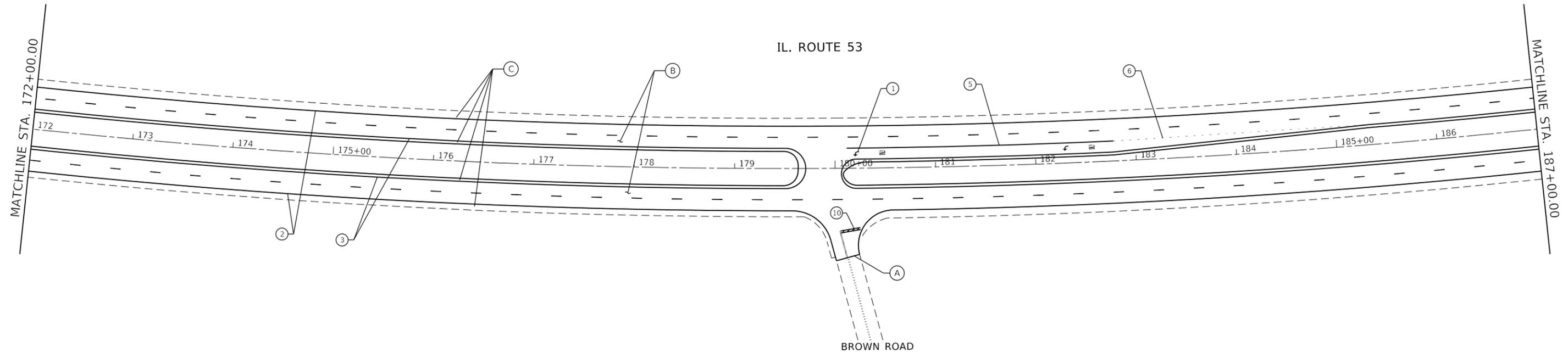
* = THERMOPLASTIC PAVEMENT MARKING -

- | | |
|---------------------------------------------------------------------|-----------------------------------------------------------------|
| ① * LETTERS & SYMBOLS, 8', SOLID, WHITE - TURN LANE MARKINGS (TYP.) | ⑥ * LINE 6" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.) |
| ② * LINE 4" SOLID WHITE LINE (TYP.) | ⑦ * LINE 8" SOLID WHITE GORE BORDER MARKING (TYP.) |
| ③ * LINE 4" SOLID YELLOW LINE (TYP.) | ⑧ * LINE 12" CHANNELIZING CHEVRON, WHITE (TYP.) |
| ④ * LINE 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.) | ⑨ * LINE 12", YELLOW PAINTED MEDIAN DIAGONAL LINES, 45°, (TYP.) |
| ⑤ * LINE 6" SOLID WHITE TURN LANE LINE (TYP.) | ⑩ * LINE 24" SOLID WHITE STOP BAR (TYP.) |

PROPOSED ROADWAY WORK LEGEND

- | |
|--------------------------------------------------------------------------------------------------|
| Ⓐ PROP. HMA SURFACE REMOVAL - BUTT JOINT (TYP.) |
| Ⓑ PROP. HMA SURFACE REMOVAL, 1 3/4" PROP. POLY. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4" |
| Ⓒ PROP. SHOULDER RUMBLE STRIPS, 8 INCH (NOTE: REPLACE EXIST. AT SAME LOCATION) |

ALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS MUST BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13.



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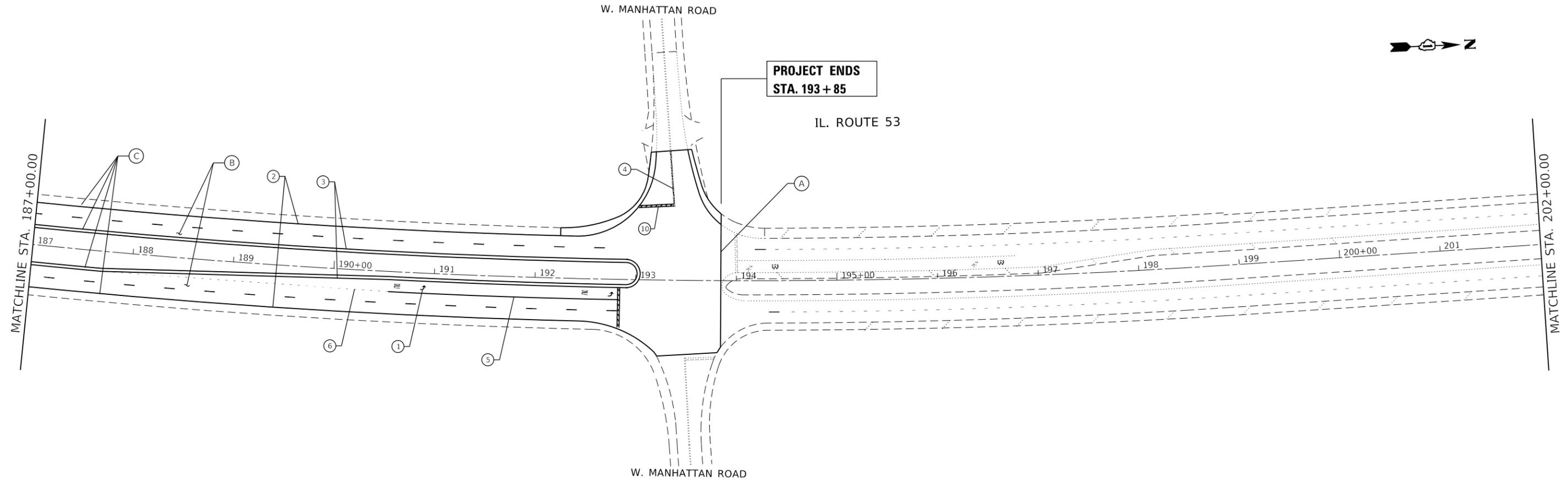
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PLAN
IL. ROUTE 53 (HOFF ROAD TO MANHATTAN ROAD)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	2020-033-R5	WILL	25	12
CONTRACT NO. 62L05				
ILLINOIS FED. AID PROJECT				



PROPOSED PAVEMENT STRIPING LEGEND

* = THERMOPLASTIC PAVEMENT MARKING -

- ① * LETTERS & SYMBOLS, 8', SOLID, WHITE - TURN LANE MARKINGS (TYP.)
- ② * LINE 4" SOLID WHITE LINE (TYP.)
- ③ * LINE 4" SOLID YELLOW LINE (TYP.)
- ④ * LINE 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)
- ⑤ * LINE 6" SOLID WHITE TURN LANE LINE (TYP.)
- ⑥ * LINE 6" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)
- ⑦ * LINE 8" SOLID WHITE GORE BORDER MARKING (TYP.)
- ⑧ * LINE 12" CHANNELIZING CHEVRON, WHITE (TYP.)
- ⑨ * LINE 12", YELLOW PAINTED MEDIAN DIAGONAL LINES, 45°, (TYP.)
- ⑩ * LINE 24" SOLID WHITE STOP BAR (TYP.)

PROPOSED ROADWAY WORK LEGEND

- Ⓐ PROP. HMA SURFACE REMOVAL - BUTT JOINT (TYP.)
- Ⓑ PROP. HMA SURFACE REMOVAL, 1 3/4" PROP. POLY. HMA SURFACE COURSE, IL-9.5, MIX "E", N70, 1 3/4"
- Ⓒ PROP. SHOULDER RUMBLE STRIPS, 8 INCH (NOTE: REPLACE EXIST. AT SAME LOCATION)

ALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS MUST BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13.

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PLOT DATE = 11/19/2020	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED ROADWAY PLAN
IL. ROUTE 53 (HOFF ROAD TO MANHATTAN ROAD)**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	2020-033-R5	WILL	25	13
				CONTRACT NO. 62L05
		ILLINOIS	FED. AID PROJECT	

DETECTOR LOOP REPLACEMENT DETAILS TO BE PROVIDED

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PLOT DATE = 10/16/2020	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

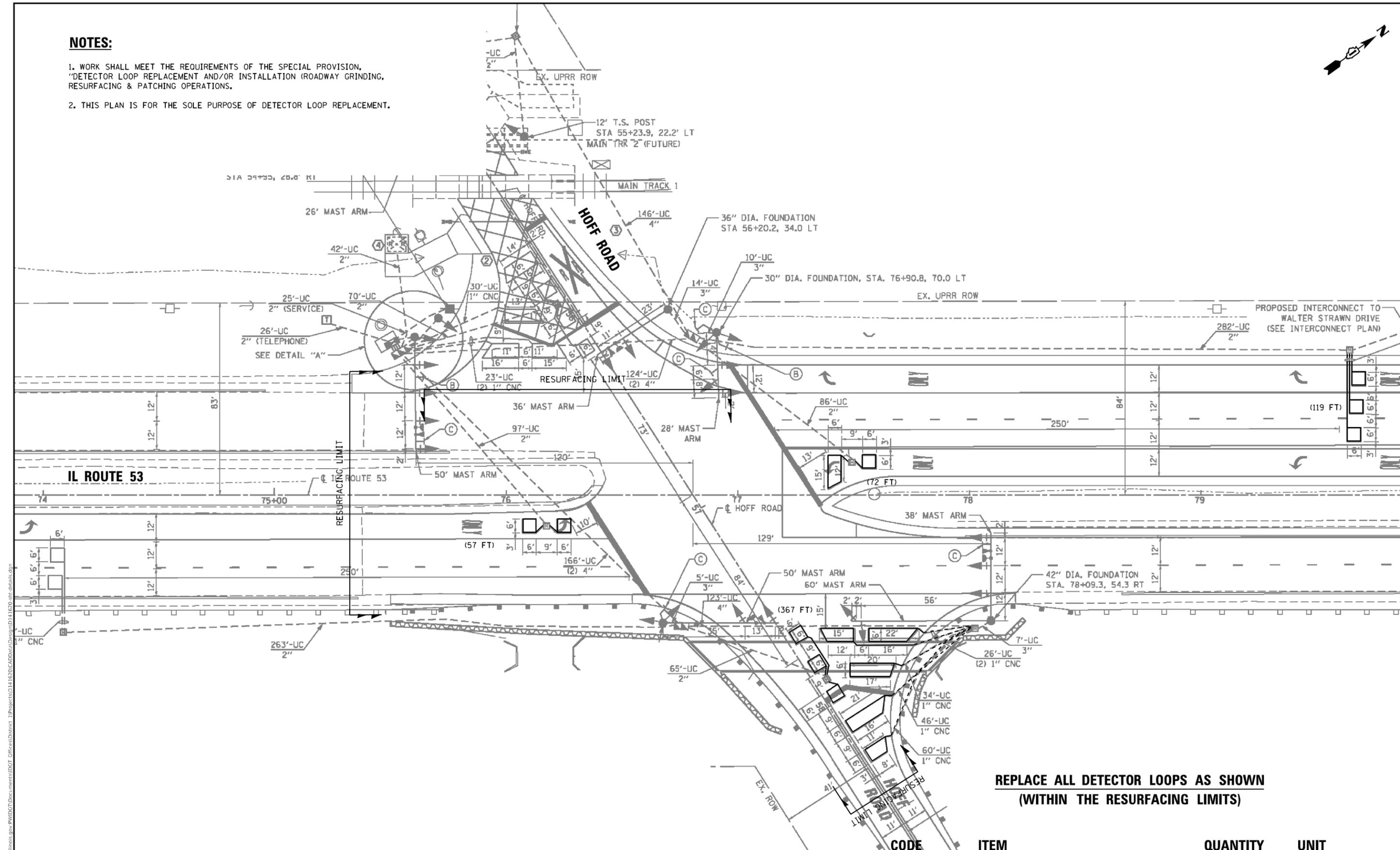
DETECTOR LOOP REPLACEMENT PLAN
IL. ROUTE 53 (HOFF ROAD TO MANHATTAN ROAD)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	2020-033-R5	WILL	25	14
CONTRACT NO. 62L05				
		ILLINOIS	FED. AID PROJECT	

NOTES:

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



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

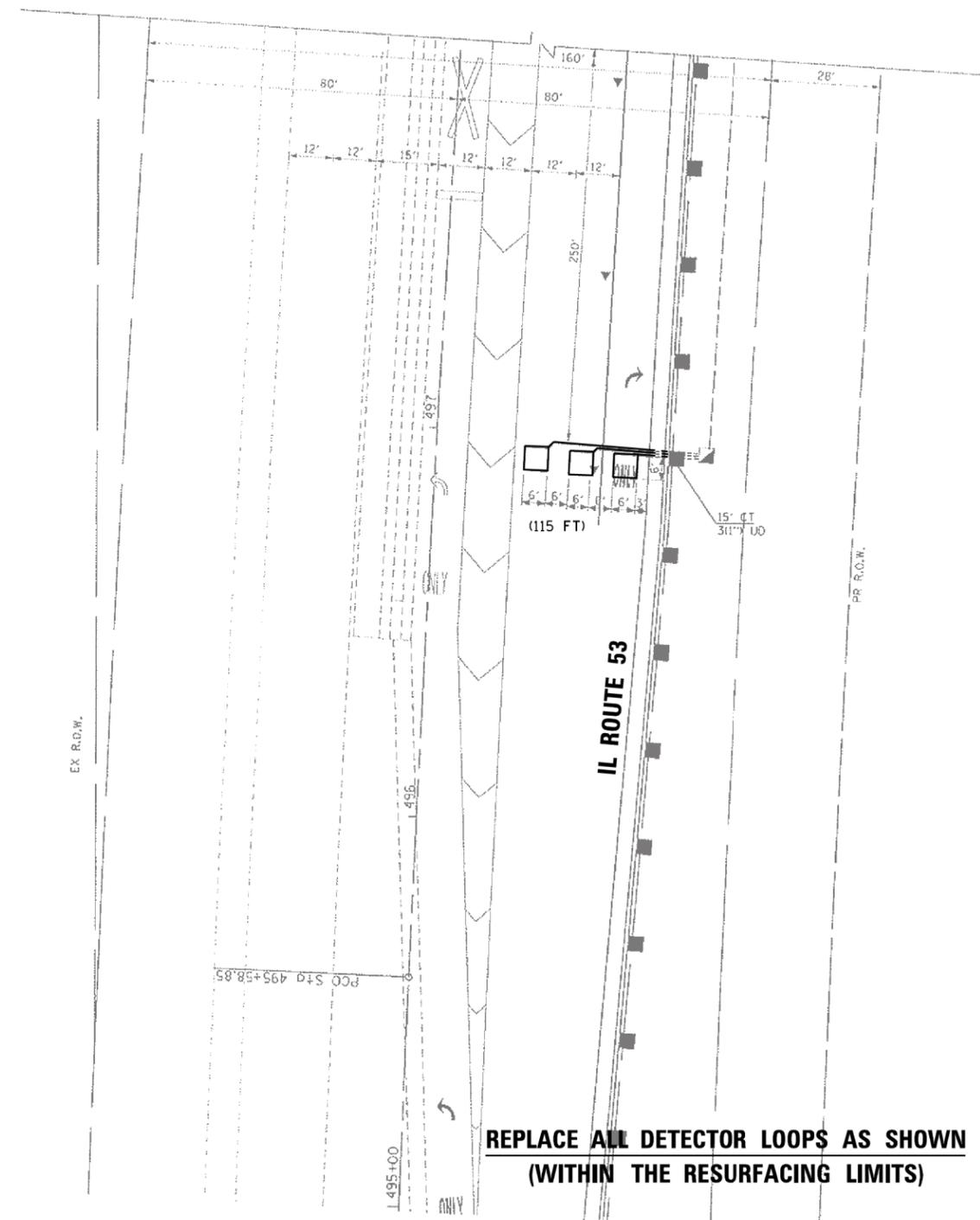
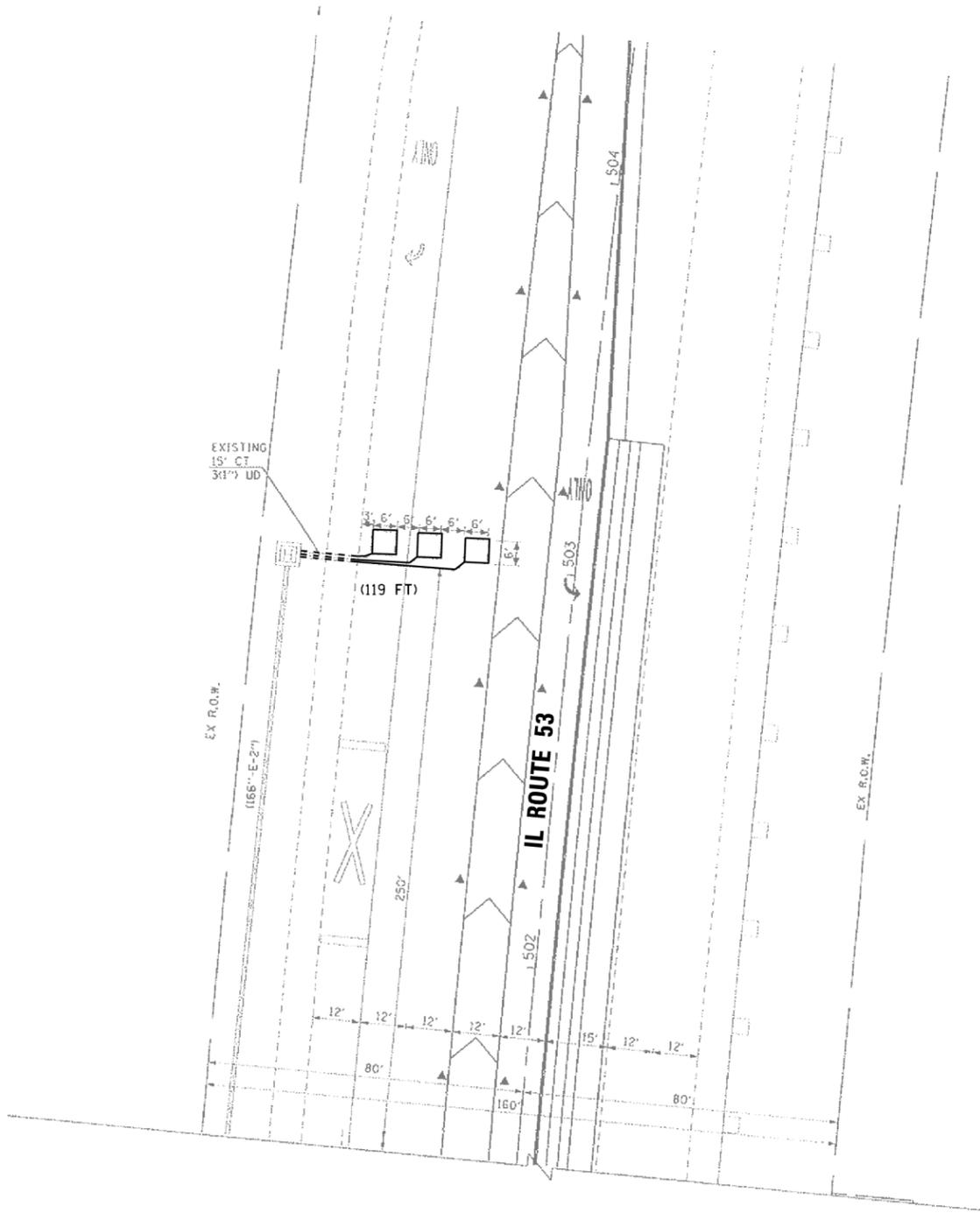
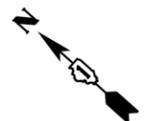
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88600600	DETECTOR LOOP REPLACEMENT	615	FOOT TS 21439

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Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			SCALE:	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 62L05		
	PLOT DATE = 10/29/2020	DATE -	REVISED -			ILLINOIS FED. AID PROJECT					

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NOTES:

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



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

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	234	FOOT TS 21437

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PLOT DATE = 10/29/2020	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

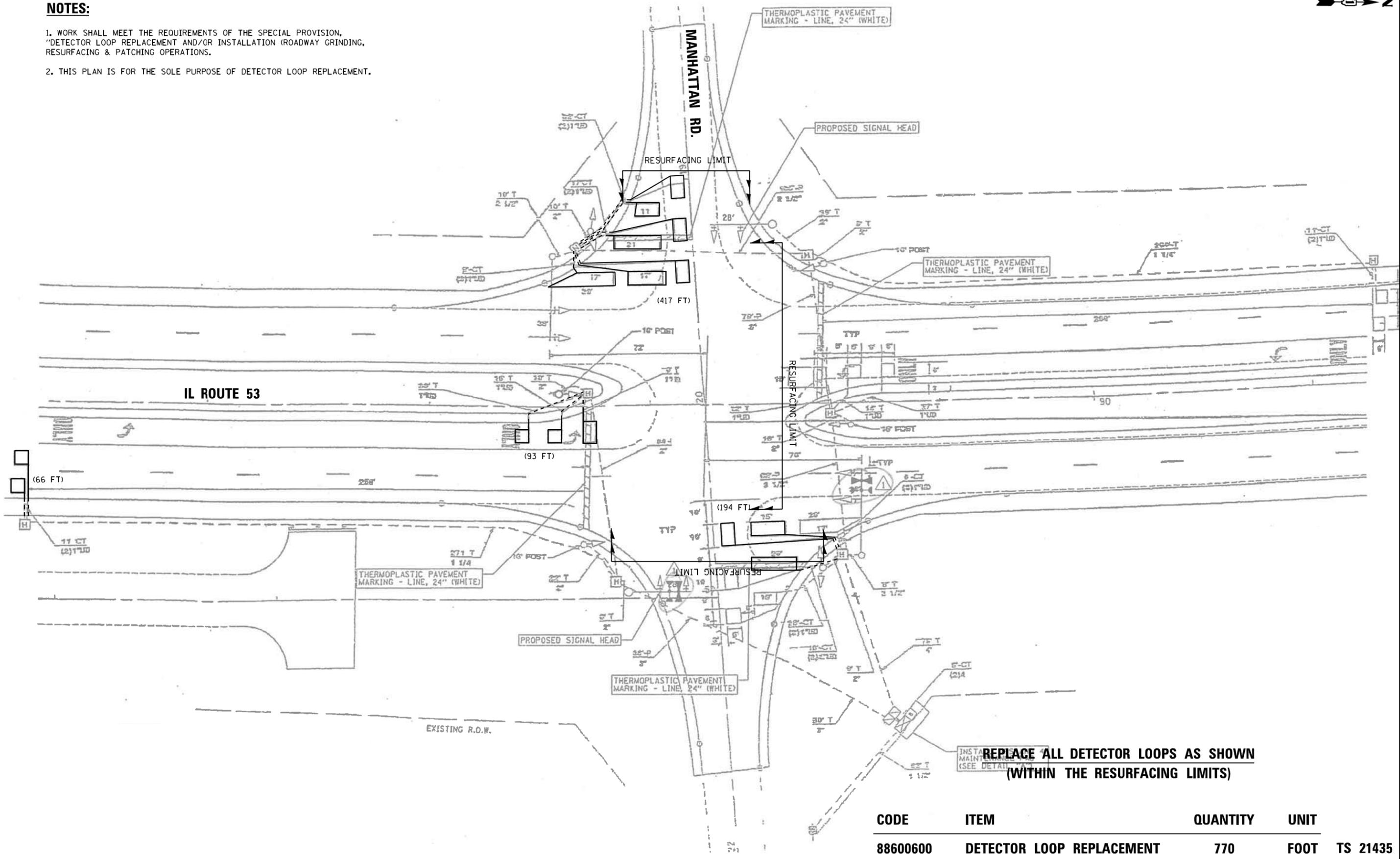
**DETECTOR LOOP REPLACEMENT PLAN
IL ROUTE 53 (HOFF ROAD TO MANHATTAN ROAD)**

F.A.P. RTE. 846	SECTION 2020-033-R5	COUNTY WILL	TOTAL SHEETS 25	SHEET NO. 14C
CONTRACT NO. 62L05			ILLINOIS FED. AID PROJECT	

SCALE: SHEET OF SHEETS STA. TO STA.

NOTES:

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



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

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88600600	DETECTOR LOOP REPLACEMENT	770	FOOT TS 21435

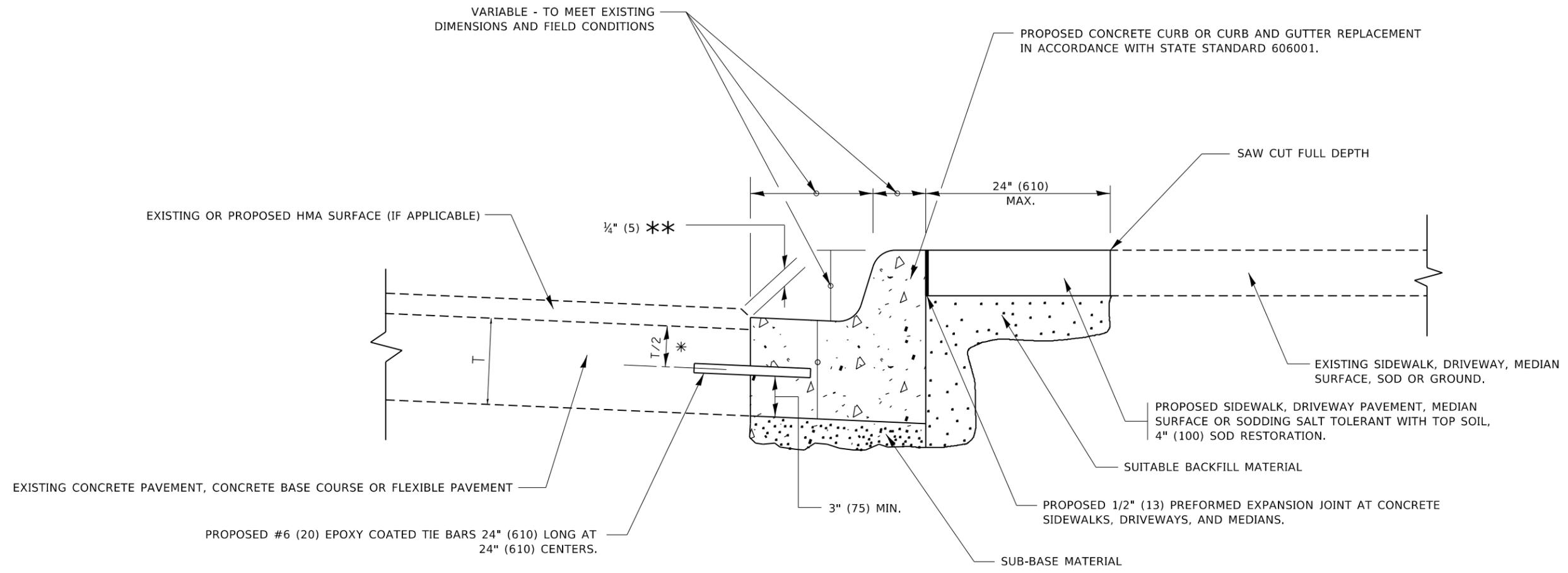
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PLOT DATE = 10/29/2020	DATE -	REVISED -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
IL. ROUTE 53 (HOFF ROAD TO MANHATTAN ROAD)**

F.A.P. RTE. 846	SECTION 2020-033-R5	COUNTY WILL	TOTAL SHEETS 25	SHEET NO. 14D
CONTRACT NO. 62L05			ILLINOIS FED. AID PROJECT	

MODEL - Default
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 SHEET - 14D
 DATE - 10/29/2020



- * 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.

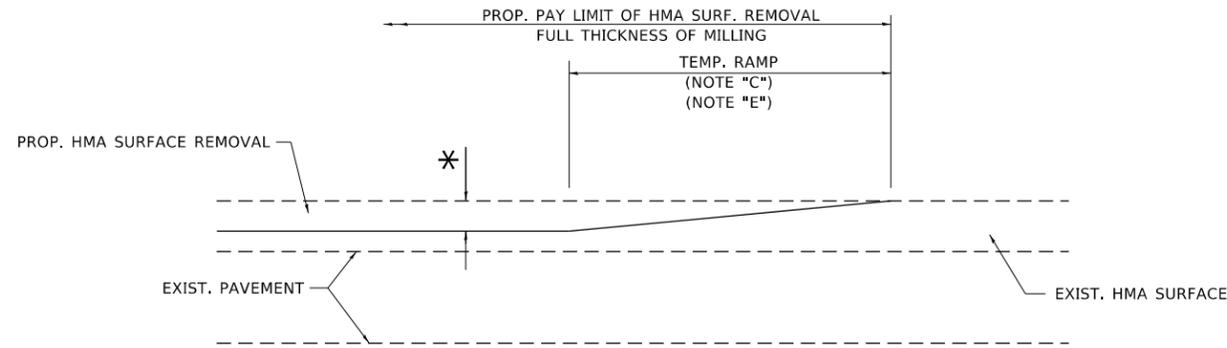
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	DRAWN -	REVISED - M. GOMEZ 01-22-01
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PLOT DATE = 10/16/2020	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

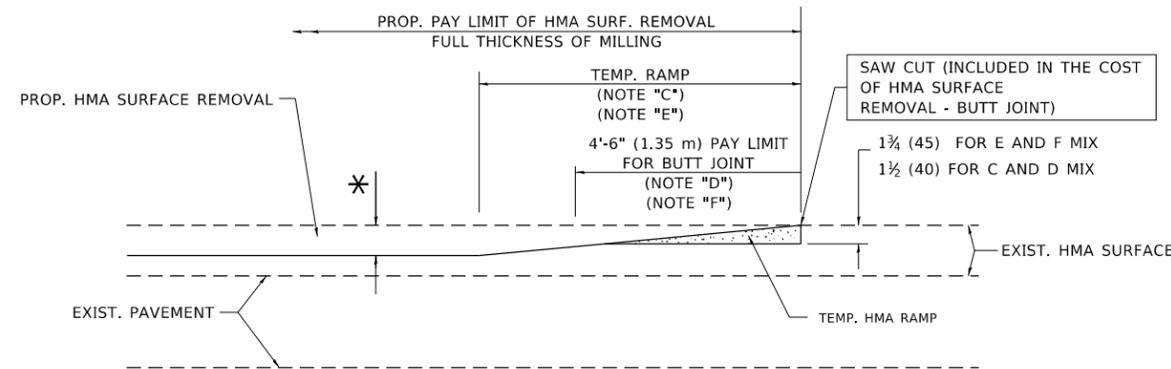
F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	2020-033-R5	WILL	25	16
BD600-06 (BD-24)		CONTRACT NO. 62L05		
ILLINOIS FED. AID PROJECT				



MILLED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 1

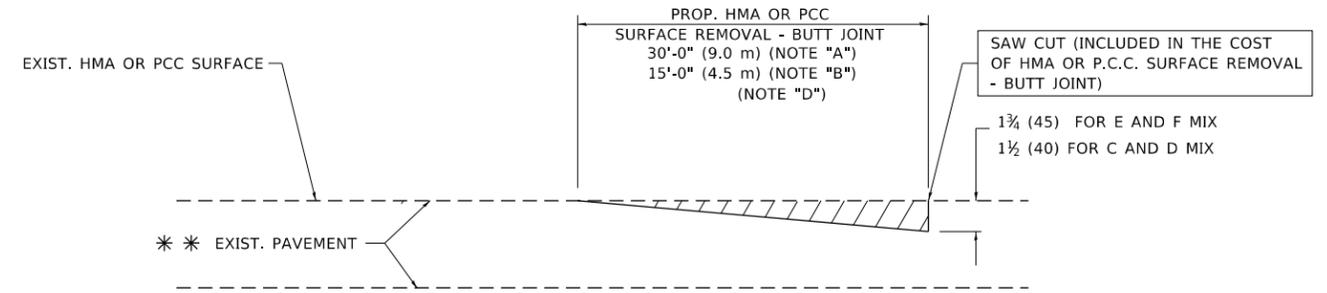


HMA CONSTRUCTED TEMPORARY RAMP

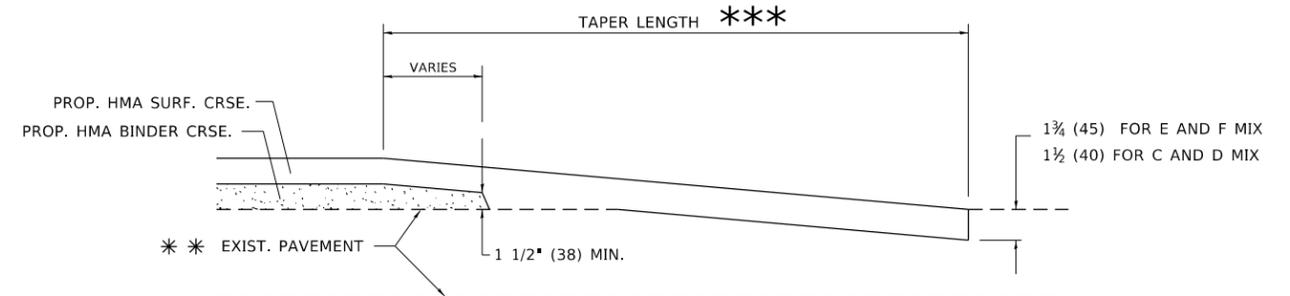
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

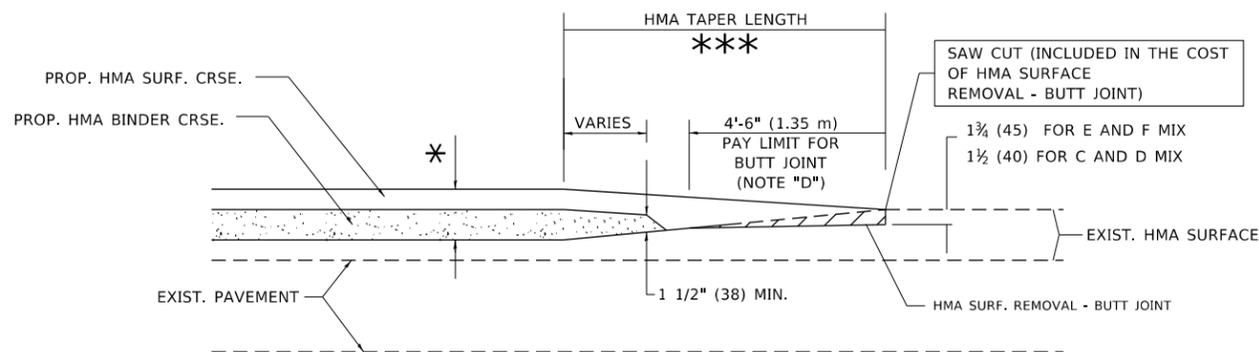
NOTES

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

BASIS OF PAYMENT

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

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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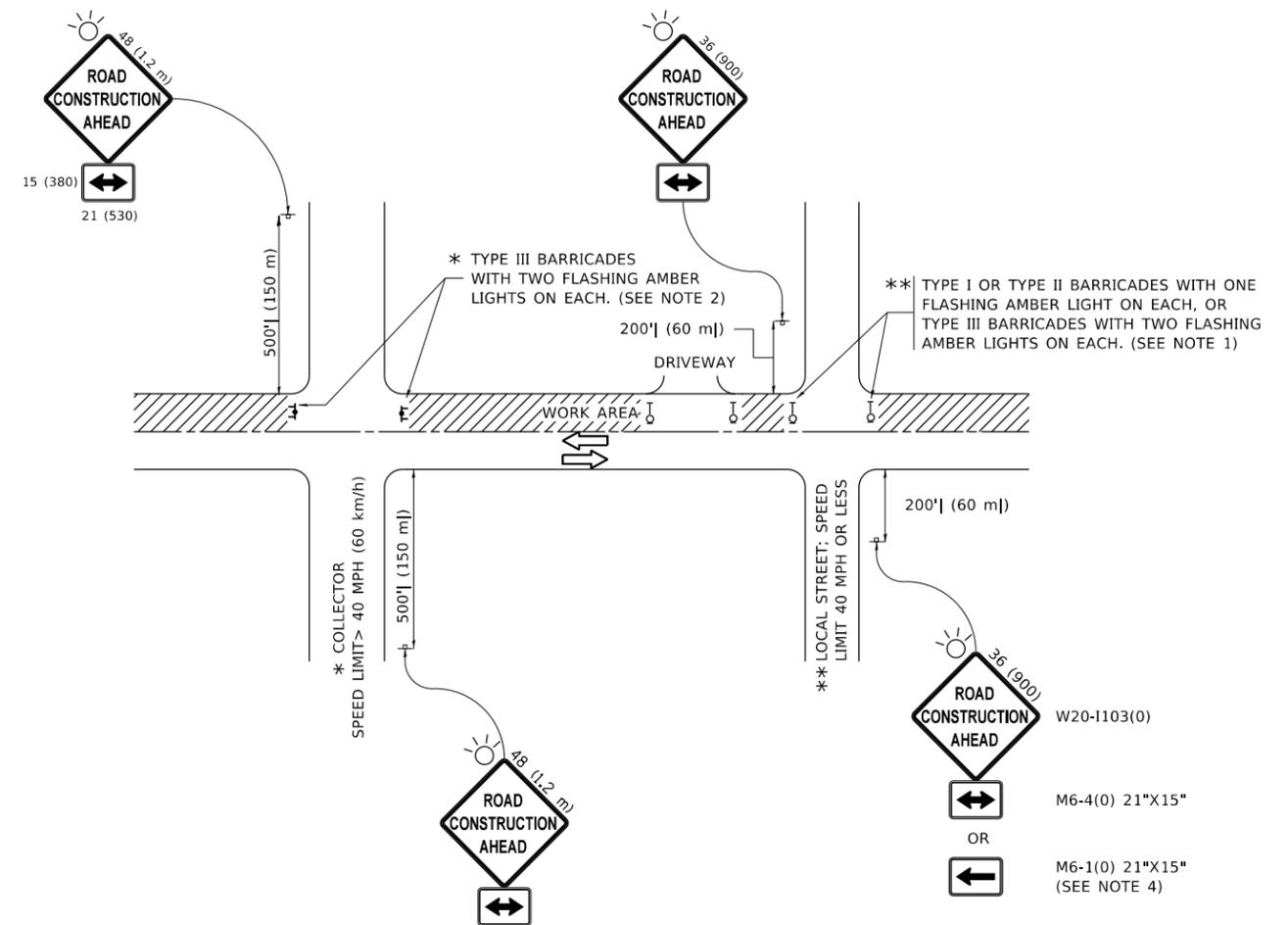
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PLOT DATE = 10/16/2020	DATE - 06-13-90	REVISED - R.BORO 01-01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND
HMA TAPER DETAILS

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	2020-033-R5	WILL	25	17
BD400-05 BD32		CONTRACT NO. 62L05		
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

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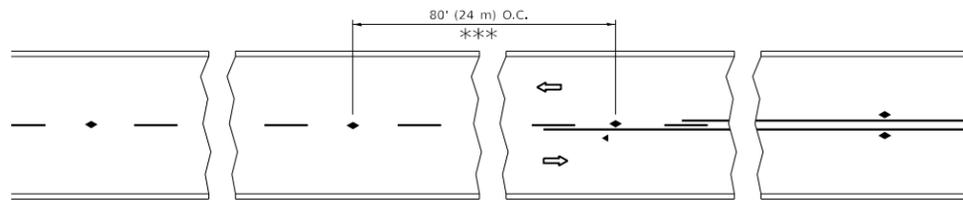
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PLOT DATE = 10/16/2020	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

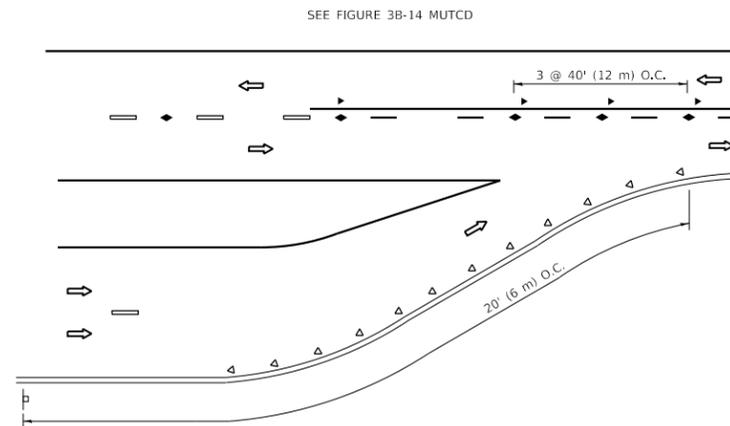
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	2020-033-R5	WILL	25	18
TC-10			CONTRACT NO. 62L05	
ILLINOIS FED. AID PROJECT				

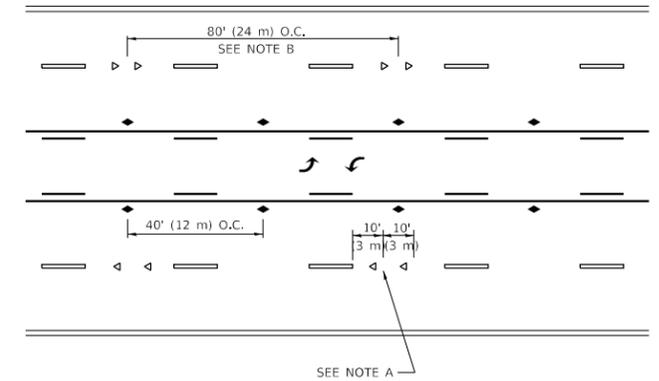


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

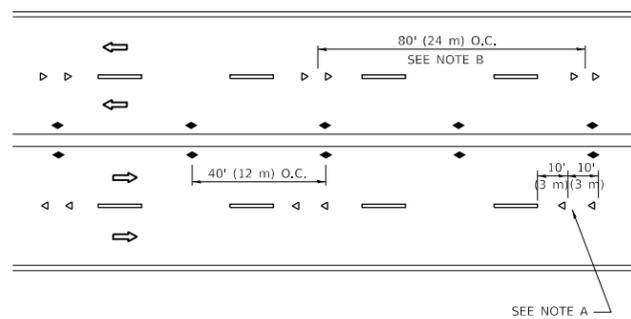
TWO-LANE/TWO-WAY



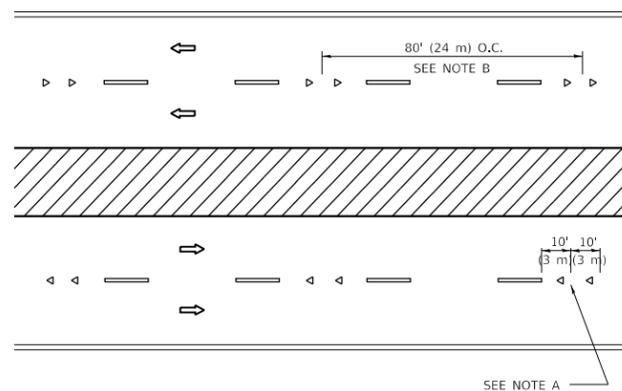
LANE REDUCTION TRANSITION



TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

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

SYMBOLS

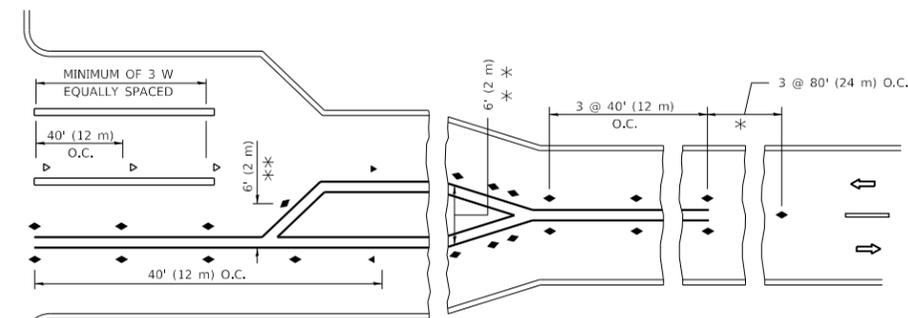
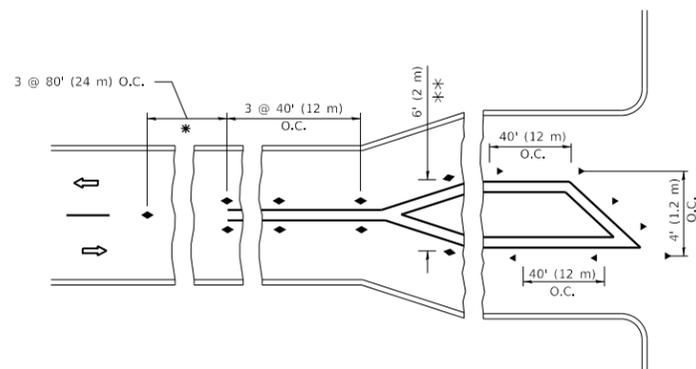
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

LANE MARKER NOTES

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

DESIGN NOTES

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



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

TURN LANES

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

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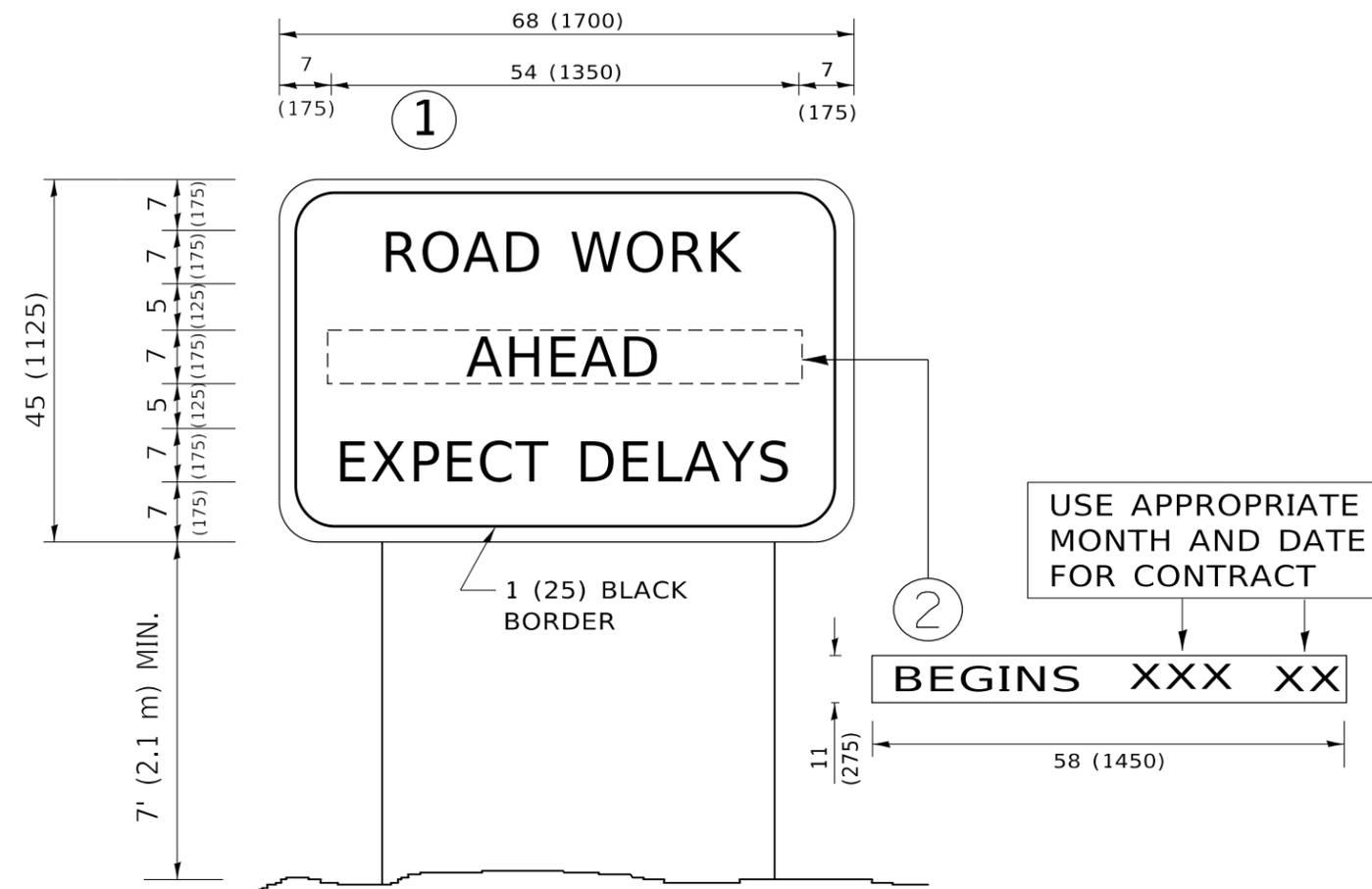
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	DRAWN -	REVISED - T. RAMMACHER 01-06-00
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PLOT DATE = 10/16/2020	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	2020-033-R5	WILL	25	19
TC-11			CONTRACT NO. 62L05	
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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	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 10/16/2020	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

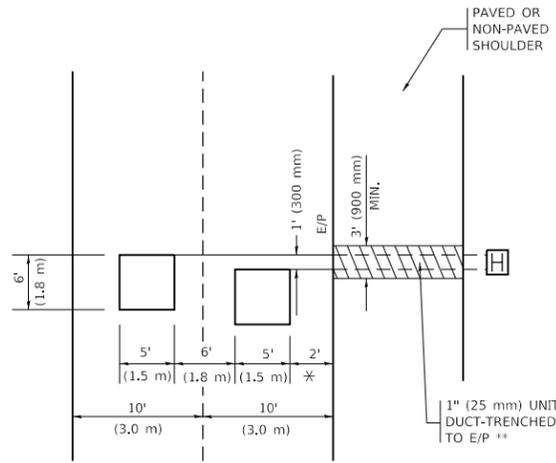
**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	2020-033-R5	WILL	25	23
TC-22		CONTRACT NO. 62L05		
		ILLINOIS	FED. AID PROJECT	

LOOPS NEXT TO SHOULDERS

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



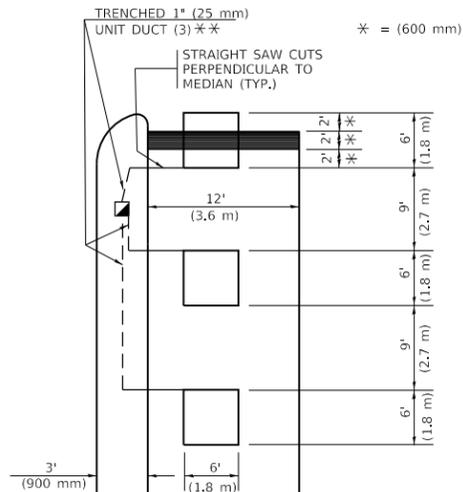
* = (600 mm)

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

LEFT TURN LANES WITH MEDIANS

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

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



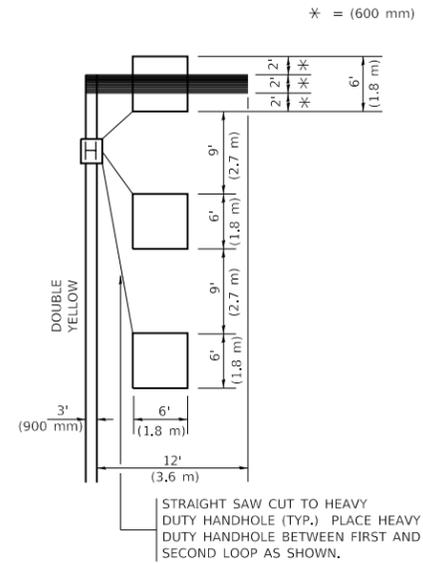
* = (600 mm)

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

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

LEFT TURN LANES WITHOUT MEDIANS

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



* = (600 mm)

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

NOTES:

VEHICLES LOOP DETECTORS

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

PLACEMENT OF DETECTORS

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

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

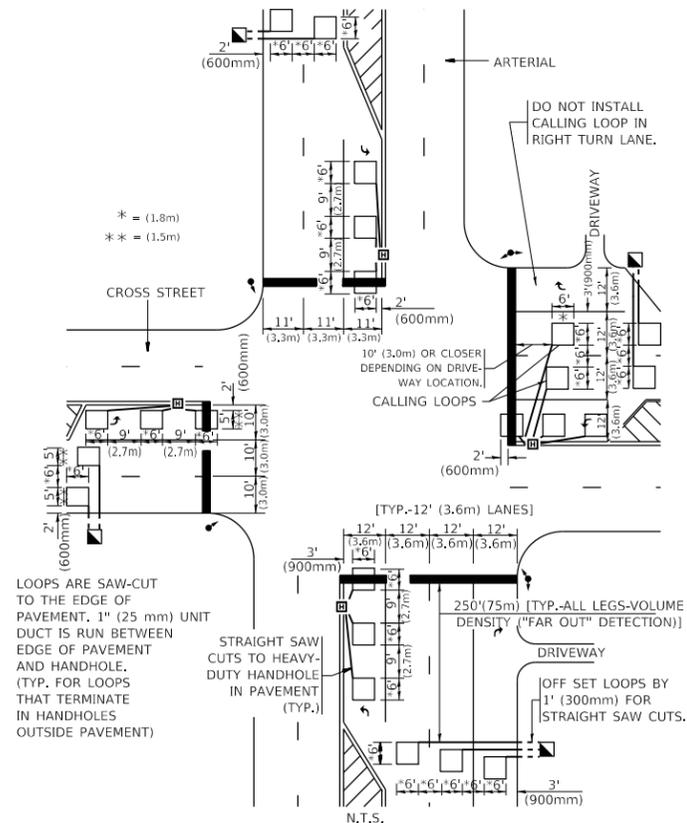
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

NOTE:

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

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

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



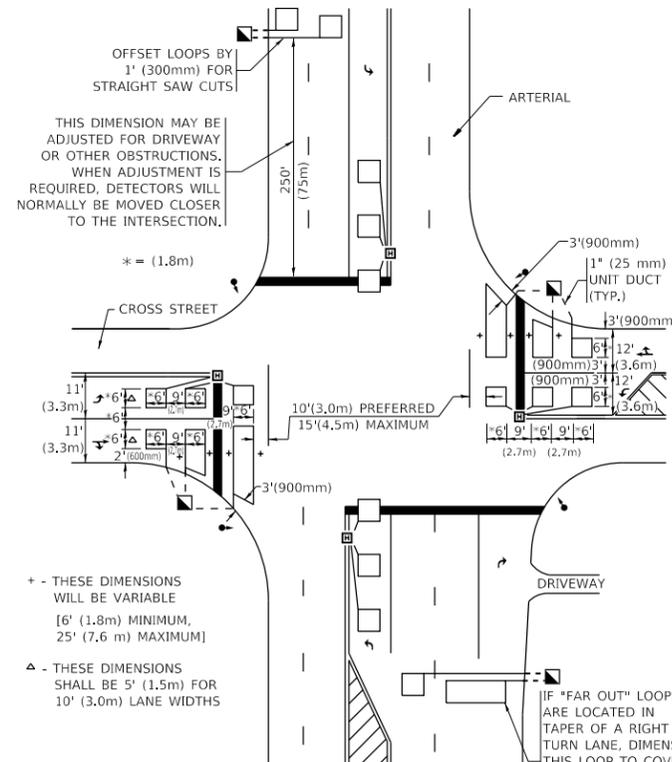
* = (1.8m)
** = (1.5m)

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

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

DETAIL 1
N.T.S.

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



THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSER TO THE INTERSECTION.

* = (1.8m)

+ - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM, 25' (7.6 m) MAXIMUM]

△ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR 10' (3.0m) LANE WIDTHS

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

DETAIL 2
N.T.S.

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

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

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
846	2020-033-R5	WILL	25	25
TS-07		CONTRACT NO. 62L05		
ILLINOIS		FED. AID PROJECT		