

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	1
		ILLINOIS	CONTRACT NO. 62L59	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE VILLAGES OF ELK GROVE AND MOUNT PROSPECT

PROPOSED
HIGHWAY PLANS

F.A.U. ROUTE 2660: BUSSE RD
FROM: IL-72 (HIGGINS RD.) TO IL-58 (GOLF RD.)
SECTION: 2020-081-R5
PROJECT: STP-M38P(520)
SMART OVERLAY AND ADA IMPROVEMENT
COOK COUNTY

C-91-278-20

TRAFFIC DATA:
BUSSE ROAD 2018 ADT = 28,700
POSTED SPEED LIMIT = 35 MPH

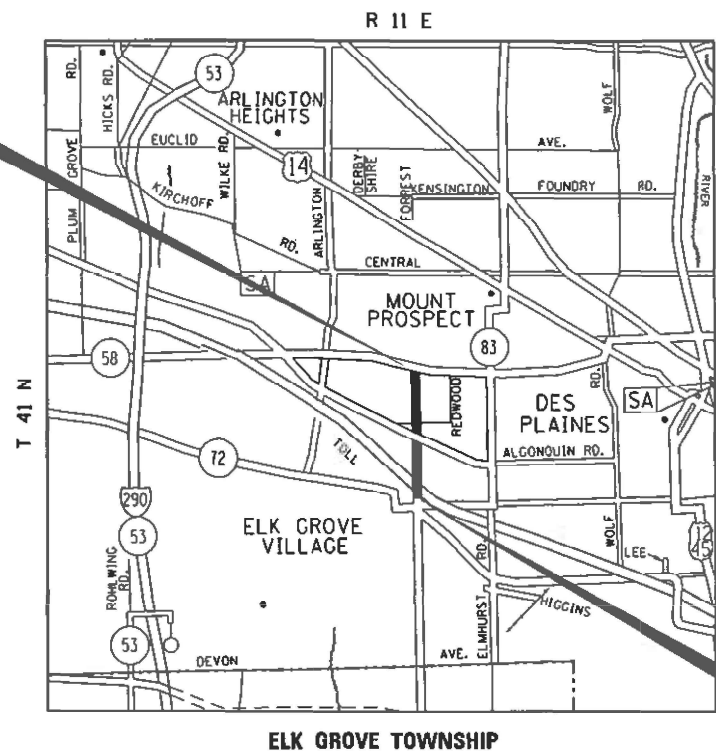


PROJECT ENDS
STA. 118 + 30

HMA OMISSION:
STA. 71+44.5 TO STA. 76+46.5

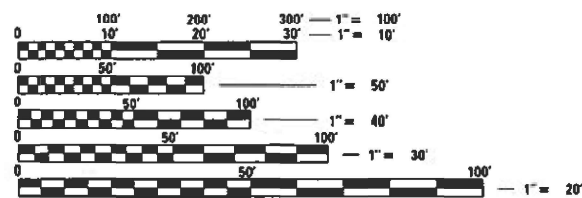
PCC OMISSION, N.B.
STA. 33+85 TO STA. 36+58

PCC, OMISSION, S.B.
STA. 34+32 TO STA. 37+05



PROJECT BEGINS
STA. STA. 30 + 28

GROSS LENGTH = 8,802 FT. = 1.67 MILES
NET LENGTH = 8,027 FT. = 1.52 MILES



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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED January 25, 2021
Jose Rivero
REGIONAL ENGINEER

January 29, 2021
Scott A. Elk
ENGINEER OF DESIGN AND ENVIRONMENT

January 29, 2021
James J. Gu
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

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

CONTRACT NO. 62L59

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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	424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
4-6	SUMMARY OF QUANTITIES	424021-06	DEPRESSED CORNER FOR SIDEWALKS
7-8	TYPICAL SECTIONS	442201-03	CLASS C AND D PATCHES.
9	SCHEDULE OF QUANTITIES	701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE.
10-13	ROADWAY AND PAVEMENT MARKING PLANS	701101-05	OFF-RD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE.
14-15	ADA CURB RAMP IMPROVEMENT (DESIGNED DETAIL)	701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS.
16	DISTRICT ONE ADA CURB RAMP DETAIL (PD-03)	701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS, DAY ONLY.
17	DISTRICT ONE ADA CURB RAMP DETAIL (PD-04)	701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
18-20	DETECTOR LOOP REPLACEMENT PLANS	701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN.
21	BD-08: DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING	701602-10	URBAN LANE CLOSURE, MULTILANE, 2W WITH BIDIRECTIONAL LEFT TURN LANE
22	BD-22: PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT	701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
23	BD-24: CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION.
24	BD-32: BUTT JOINT AND HMA TAPER DETAILS	701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
25	TC-10: TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS	701901-08	TRAFFIC CONTROL DEVICES.
26	TC-11: TYPICAL APPLICATIONS: RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)		
27	TC-13: DISTRICT ONE TYPICAL PAVEMENT MARKINGS		
28	TC-14: TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)		
29	TC-16: PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING		
30	TC-22: ARTERIAL ROAD INFORMATION SIGN		
31	TS-05: DISTRICT 1 - STANDARD TRAFFIC SIGNAL DESIGN DETAILS (SHEET 2 OF 7)		
32	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 VILLAGES OF ELK GROVE AND MOUNT PROSPECT.
- 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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	DRAWN -	REVISED -		2660	2020-081-R5	COOK	32	2				
PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED -		CONTRACT NO. 62L59								
PLOT DATE = 2/4/2021	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO	STA.	ILLINOIS	FED. AID PROJECT

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.

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PLOT DATE = 1/29/2021	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUSSE RD. (IL. 72 TO IL. 58)
INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	3
CONTRACT NO. 62L59				
ILLINOIS FED. AID PROJECT				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% ST	100% STATE			
20200100	EARTH EXCAVATION	CU YD	30	30				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	150	150				
25200110	SODDING, SALT TOLERANT	SO YD	150	150				
25200200	SUPPLEMENTAL WATERING	UNIT	2.4	2.4				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	26316	26316				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	176	176				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	549	549				
42001300	PROTECTIVE COAT	SO YD	964	964				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	3482	3482				
42400800	DETECTABLE WARNINGS	SO FT	516	516				
40605026	POLY MERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX, 9.5, MIX "F", N80	TON	5732	5732				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% ST	100% STATE			
44000156	HOT-MIX ASPHALT SURFACE REMOVAL, 1 3/4"	SO YD	58481	58481				
44000600	SIDEWALK REMOVAL	SO FT	2503	2503				
44201803	CLASS D PATCHES, TYPE II, 13 INCH	SO YD	819	819				
44201807	CLASS D PATCHES, TYPE III, 13 INCH	SO YD	701	701				
44201809	CLASS D PATCHES, TYPE IV, 13 INCH	SO YD	819	819				
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	5	5				
60257900	MANHOLES TO BE RECONSTRUCTED	EACH	3	3				
60266600	VALVE BOXES TO BE ADJUSTED	EACH	2	2				
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	2	2				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	5	5				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	30	30				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	4	4				
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1				
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1				

REV-SEP

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	0005 80% FED 20% ST	0005 100% STATE					CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	0005 80% FED 20% ST	0005 100% STATE				
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	13	13						70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	3510	3510					
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12						70300250	TEMPORARY PAVEMENT MARKING - LINE 8"	FOOT	352	352					
67100100	MOBILIZATION	L SUM	1	1						70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1332	1332					
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1	1						70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	280	280					
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	L SUM	1	1						70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	8343	8343					
70102632	TRAFFIC CONTROL AND PROTECTION, STANDARD 701602	L SUM	1	1					* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	734	734						
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1					* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	27071	27071						
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1					* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	3510	3510						
70300100	SHORT TERM PAVEMENT MARKING	FOOT	16686	16686					* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	352	352						
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	5562	5562					* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1332	1332						
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	734	734					* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	280	280						
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	27071	27071					* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	745	745						
									78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	596	596						
									85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	1	1						

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUSSE RD. (IL 72 TO IL 58)
SUMMARY OF QUANTITIES**

F.A.U. RTÉ.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-RS	COOK	32	5
CONTRACT NO. 62L59				
SCALE: SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT				

REV-SEP

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE										
CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	0005 80% FED 20% ST	0005 100% STATE						CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	0005 80% FED 20% ST	0005 100% STATE							
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1052	1052																			
* 89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	7	7																			
* 89502376	REBUILD EXISTING HANDHOLE	EACH	1	1																			
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1																			
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	750		750																		
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	44	44																			
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	16420	16420																			
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	2500	2500																			
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	75		75																		
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	102.8	102.8																			
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	30336	30336																			
Ø Z0076600	TRAINEES	HOURS	500	500																			
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500																			
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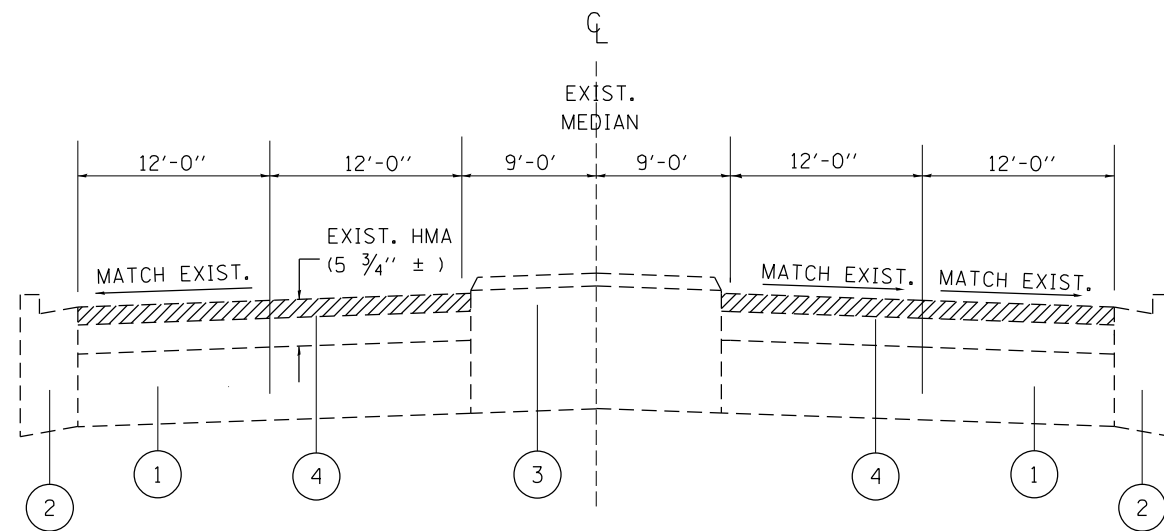
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUSSE RD. (IL. 72 TO IL. 58)
SUMMARY OF QUANTITIES**

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

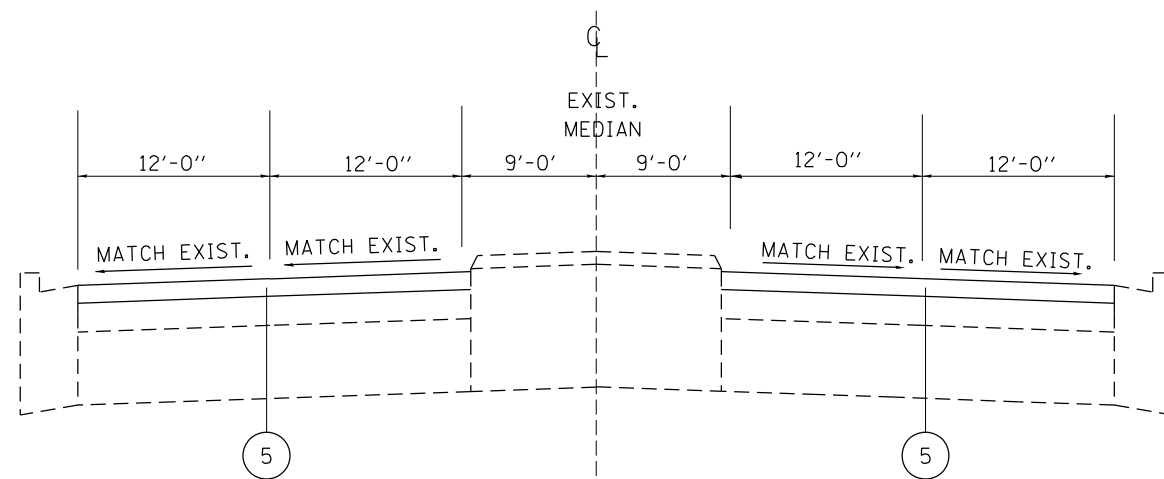
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-RS	COOK	32	6
CONTRACT NO. 62L59				
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

BUSSE ROAD
 STA. 30+28 TO STA. 34+08.5
 STA. 36+81.5 TO STA. 71+44.5
 STA. 76+46.5 TO STA. 118+30

NOTE:
 REFER TO ROADWAY PLANS FOR INTERMITTENT LOCATIONS.
 OF EXIST. PAINTED / RAISED MEDIAN



PROPOSED TYPICAL SECTION

BUSSE ROAD
 STA. 30+28 TO STA. 34+08.5
 STA. 36+81.5 TO STA. 71+44.5
 STA. 76+46.5 TO STA. 118+30

NOTE:
 THE CONTRACTOR SHALL MILL THE ROADWAY FIRST,
 THEN PATCH PER BD-22 DETAIL.

LEGEND

- ① EXIST. PCC PAVEMENT, ± 9"
- ② EXIST. COMB. CONCRETE CURB AND GUTTER
- ③ EXIST. PAINTED / RAISED MEDIAN
- ④ PROP. HMA SURFACE REMOVAL, 1 3/4"
- ⑤ PROP. POLY. HMA SURFACE CRSE, SMA, 9.5, MIX "F", N80, 1 3/4"

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
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ROADWAY SMART OVERLAY:

PROP. POLY. HMA SURFACE CRSE, SMA, 9.5, MIX "F", N80, 1 3/4"	3.5% AT 80 GYR.	QCP
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HOT-MIX ASPHALT PATCHING:

CLASS D PATCHES (HMA BINDER IL-19 mm)	4% AT 70 GYR.	QC/OA
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QMP Designation: Quality Control/Quality Assurance (QC/OA);
 Quality Control for Performance (QCP); Pay for Performance (PFP)

NOTES:

THE UNIT WEIGHT USED 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 SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.

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 PLOT DATE: 2/4/2021

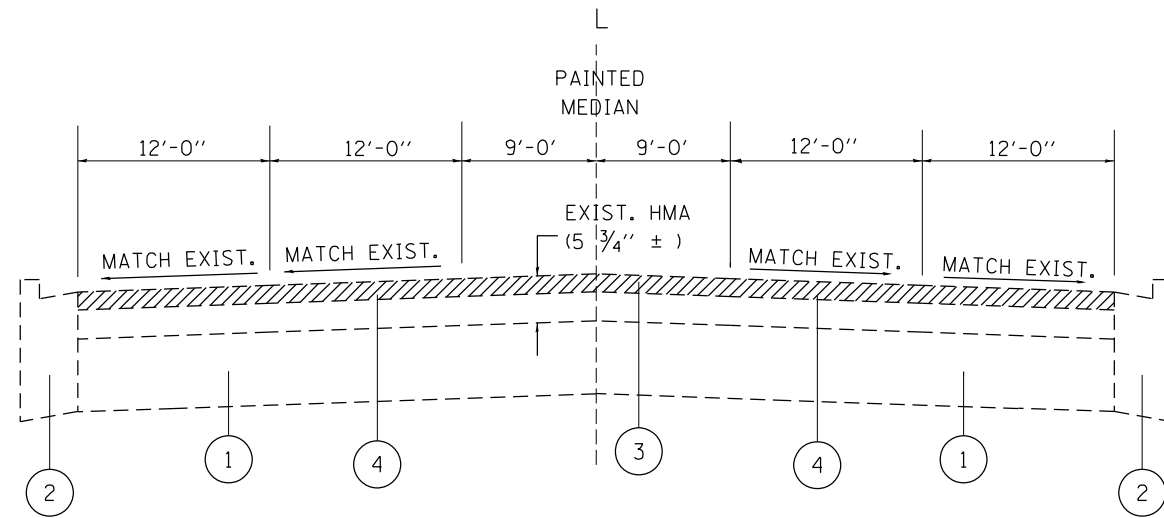
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BUSSE RD. (IL. 72 TO IL. 58)
 EXISTING AND PROPOSED TYPICAL SECTIONS**

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

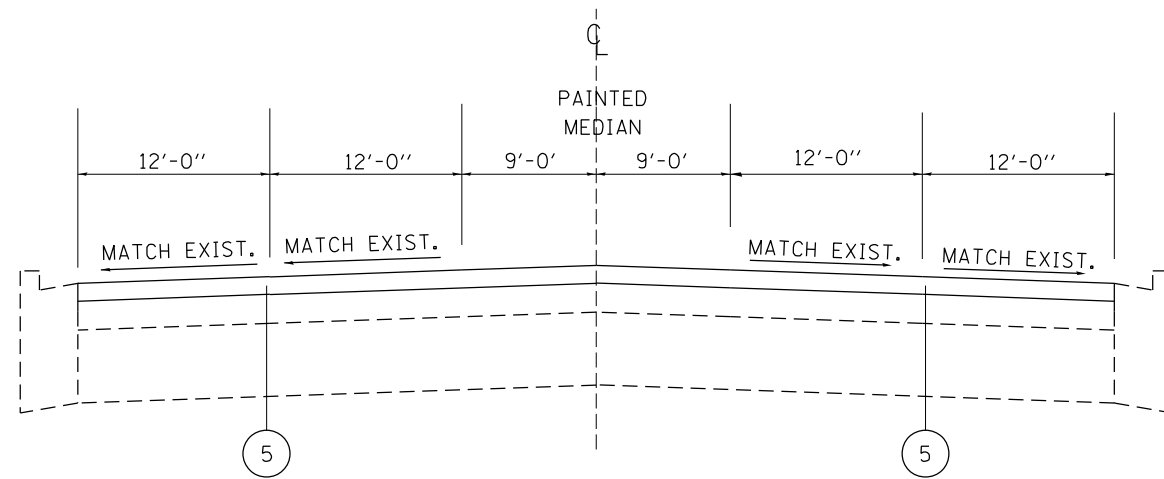
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	7
				CONTRACT NO. 62L59
ILLINOIS FED. AID PROJECT				



EXISTING TYPICAL SECTION

BUSSE ROAD
 STA. 30+28 TO STA. 34+08.5
 STA. 36+81.5 TO STA. 71+44.5
 STA. 76+46.5 TO STA. 118+30

NOTE:
 REFER TO ROADWAY PLANS FOR INTERMITTENT LOCATIONS.
 OF EXIST. PAINTED / RAISED MEDIAN



PROPOSED TYPICAL SECTION

BUSSE ROAD
 STA. 30+28 TO STA. 34+08.5
 STA. 36+81.5 TO STA. 71+44.5
 STA. 76+46.5 TO STA. 118+30

NOTE:
 THE CONTRACTOR SHALL MILL THE ROADWAY FIRST,
 THEN PATCH PER BD-22 DETAIL.

LEGEND

- ① EXIST. PCC PAVEMENT, ± 9"
- ② EXIST. COMB. CONCRETE CURB AND GUTTER
- ③ EXIST. PAINTED / RAISED MEDIAN
- ④ PROP. HMA SURFACE REMOVAL, 1 3/4"
- ⑤ PROP. POLY. HMA SURFACE CRSE, SMA, 9.5, MIX "F", N80, 1 3/4"

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**BUSSE RD. (IL. 72 TO IL. 58)
 EXISTING AND PROPOSED TYPICAL SECTIONS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	8
			CONTRACT NO. 62L59	
		ILLINOIS FED. AID PROJECT		

PROPOSED RELOCATION OF EXISTING PEDESTRIAN BUTTONS TO PREFERRED HEIGHT

LOCATION:	QTY	EXIST. HT.	PROP. HT.
<u>BUSSE RD. AND DEMPSTER ST. :</u>	(EACH)	(FT)	(FT)
N.E. CORNER, FACING BUSSE RD.	1	3.5	3.0
N.E. CORNER, FACING DEMPSTER ST.	1	3.6	3.0
S.W. CORNER, FACING BUSSE RD.	1	3.4	3.0
S.W. CORNER, FACING DEMPSTER ST.	1	3.4	3.0
S.E. CORNER, FACING P.C.C. GORE	1	3.8	3.0

LOCATION:	QTY	EXIST. HT.	PROP. HT.
<u>BUSSE RD. AND WILLOW LN. :</u>	(EACH)	(FT)	(FT)
N.E. CORNER	1	3.4	3.0
S.E. CORNER	1	3.7	3.0

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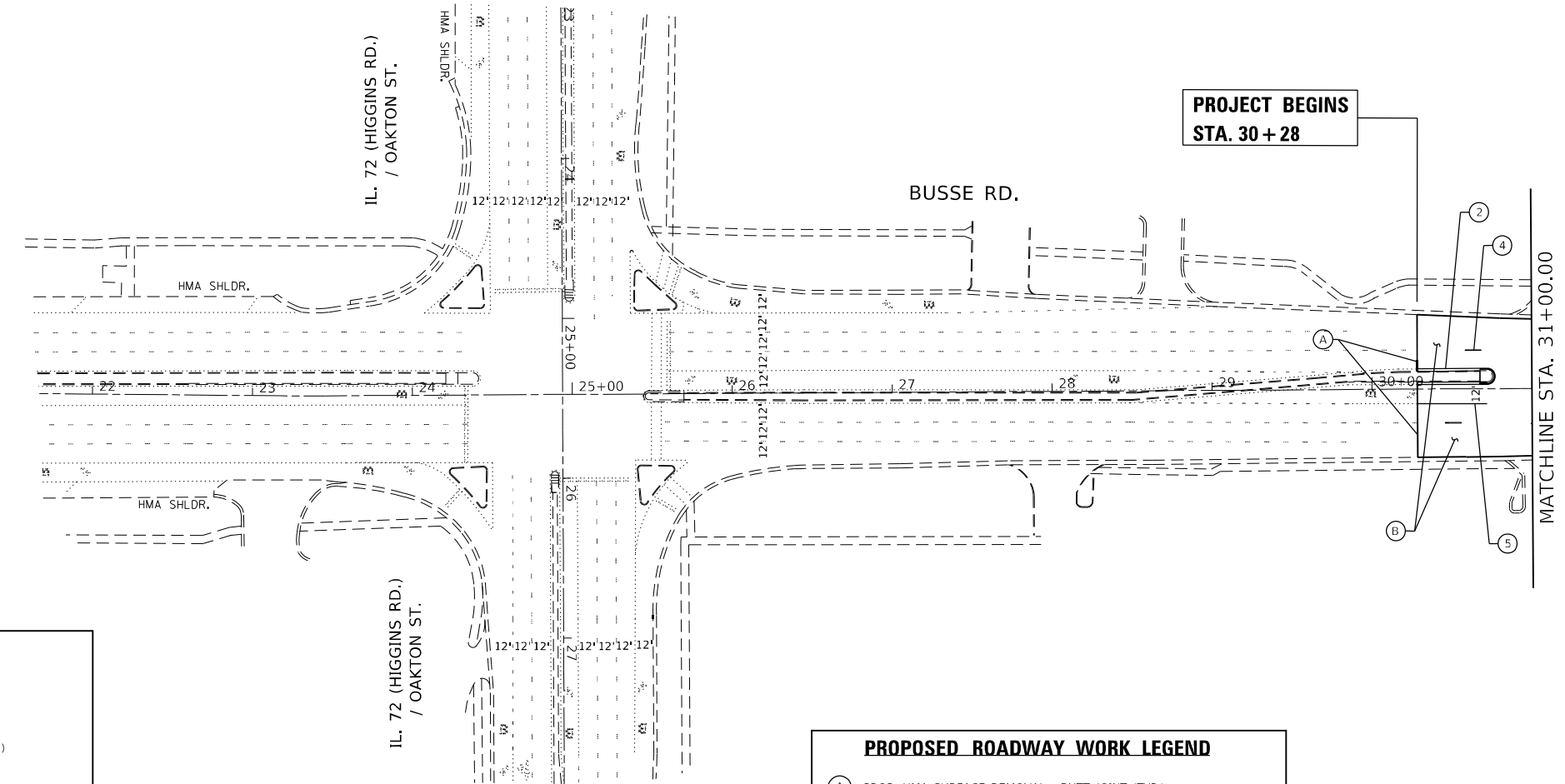
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**SCHEDULE OF QUANTITIES
BUSSE RD. (IL. 72 TO IL. 58)**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	9
CONTRACT NO. 62L59				
ILLINOIS		FED. AID PROJECT		

**PROJECT BEGINS
STA. 30+28**



PROPOSED PAVEMENT STRIPING LEGEND

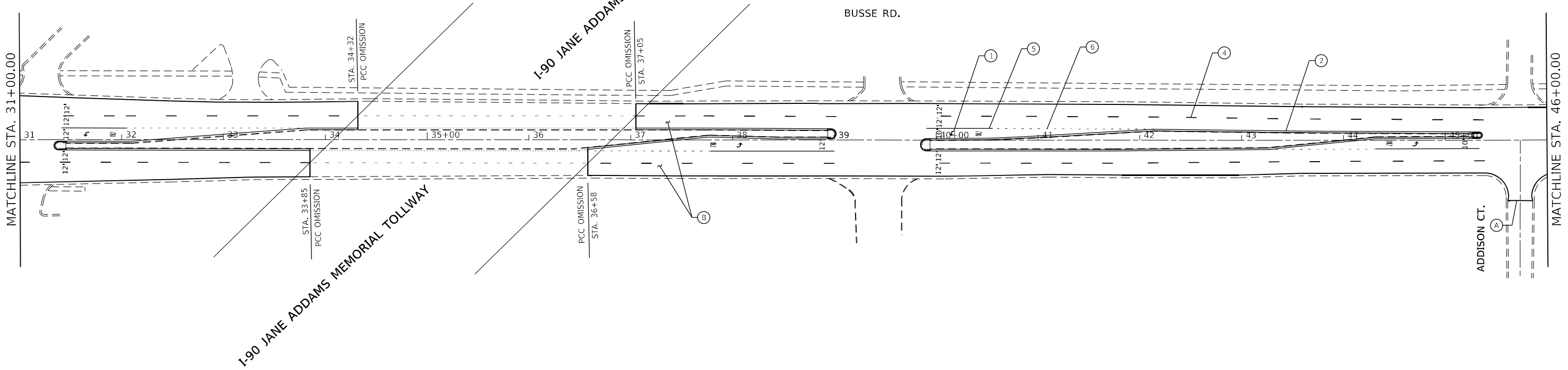
* = THERMOPLASTIC PAVEMENT MARKING -

- ① * LETTERS & SYMBOLS, 8", SOLID, WHITE - TURN LANE MARKINGS (TYP.)
- ② * LINE 4" SOLID YELLOW LINE (TYP.)
- ③ * LINE 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)
- ④ * PROP. THERMO, PVT. MRK.-4", 10' DASH - 30' SKIP, WHITE (TYP.)
- ⑤ * LINE 6" SOLID WHITE TURN LANE LINE (TYP.)
- ⑥ * LINE 6" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)
- ⑦ * LINE 6" SOLID WHITE CROSSWALK LINE (TYP.)
- ⑧ * LINE 8" SOLID WHITE GORE BORDER MARKING (TYP.)
- ⑨ * LINE 12" CHANNELIZING CHEVRON, WHITE (TYP.)
- ⑩ * LINE 12", YELLOW PAINTED MEDIAN DIAGONAL LINES, 45°, (TYP.)
- ⑪ * LINE 12" THERMO, PVT. MRK. CROSSING, 6-FT BARS, WHITE (TYP.)
- ⑫ * LINE 24" SOLID WHITE STOP BAR (TYP.)

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

PROPOSED ROADWAY WORK LEGEND

- (A) PROP. HMA SURFACE REMOVAL - BUTT JOINT (TYP.)
- (B) PROP. HMA SURFACE REMOVAL, 1 3/4"
- (C) PROP. POLY. HMA SURFACE CRSE, SMA, 9.5, MIX "F", N80, 1 3/4"
- (C) PROP. ADA CURB RAMP IMPROVEMENT (SEE DETAILS)



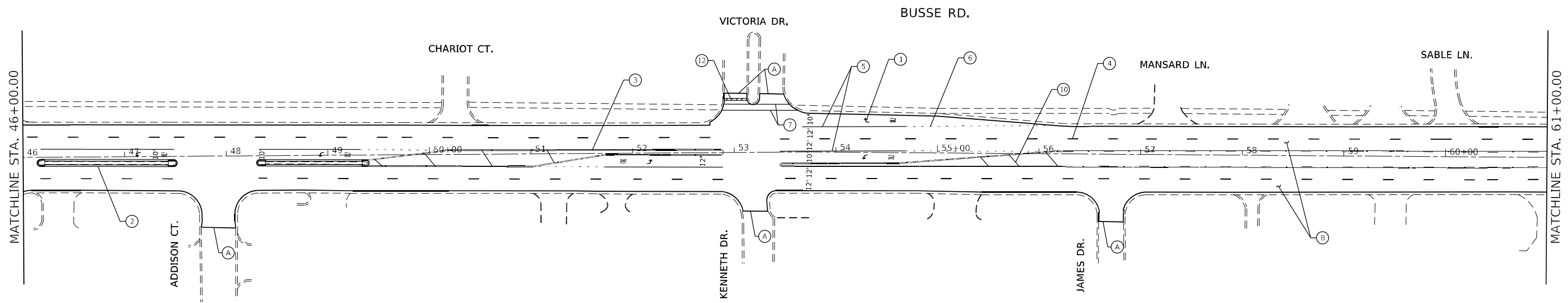
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PLOT DATE = 2/4/2021	CHECKED -	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN	
BUSSE RD. (IL. 72 TO IL. 58)	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	10
CONTRACT NO. 62L59				
ILLINOIS FED. AID PROJECT				



PROPOSED PAVEMENT STRIPING LEGEND

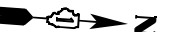
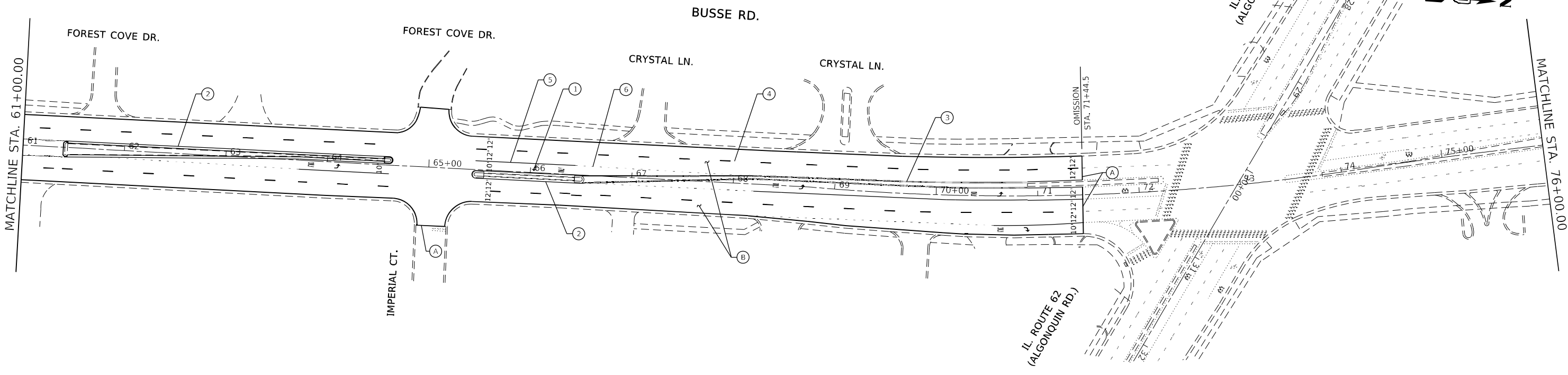
* = THERMOPLASTIC PAVEMENT MARKING -

- ① * LETTERS & SYMBOLS, 8", SOLID, WHITE - TURN LANE MARKINGS (TYP.)
- ② * LINE 4" SOLID YELLOW LINE (TYP.)
- ③ * LINE 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)
- ④ * PROP. THERMO. PVT. MRK.-4", 10' DASH - 30' SKIP, WHITE (TYP.)
- ⑤ * LINE 6" SOLID WHITE TURN LANE LINE (TYP.)
- ⑥ * LINE 6" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)
- ⑦ * LINE 6" SOLID WHITE CROSSWALK LINE (TYP.)
- ⑧ * LINE 8" SOLID WHITE GORE BORDER MARKING (TYP.)
- ⑨ * LINE 12" CHANNELIZING CHEVRON, WHITE (TYP.)
- ⑩ * LINE 12", YELLOW PAINTED MEDIAN DIAGONAL LINES, 45°, (TYP.)
- ⑪ * LINE 12" THERMO. PVT. MRK. CROSSING, 6-FT BARS, WHITE (TYP.)
- ⑫ * LINE 24" SOLID WHITE STOP BAR (TYP.)

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

PROPOSED ROADWAY WORK LEGEND

- (A) PROP. HMA SURFACE REMOVAL - BUTT JOINT (TYP.)
- (B) PROP. HMA SURFACE REMOVAL, 1 3/4" PROP. POLY. HMA SURFACE CRSE, SMA, 9.5, MIX "F", N80, 1 3/4"
- (C) PROP. ADA CURB RAMP IMPROVEMENT (SEE DESIGN IN DETAIL SHEET)



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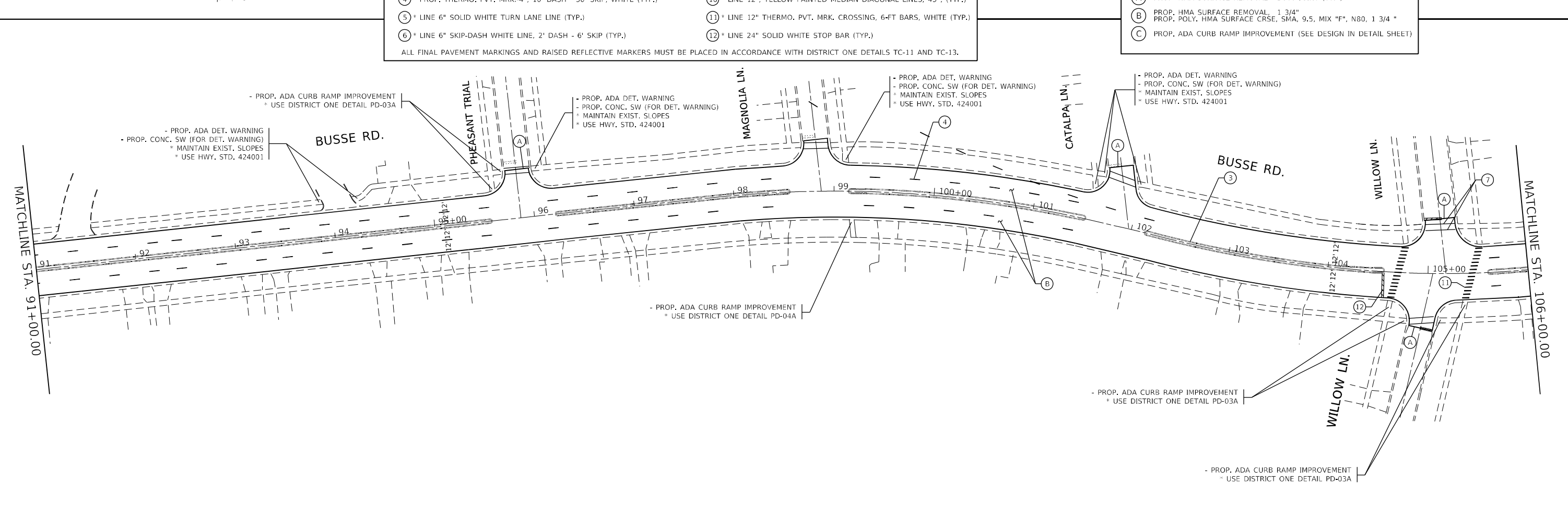
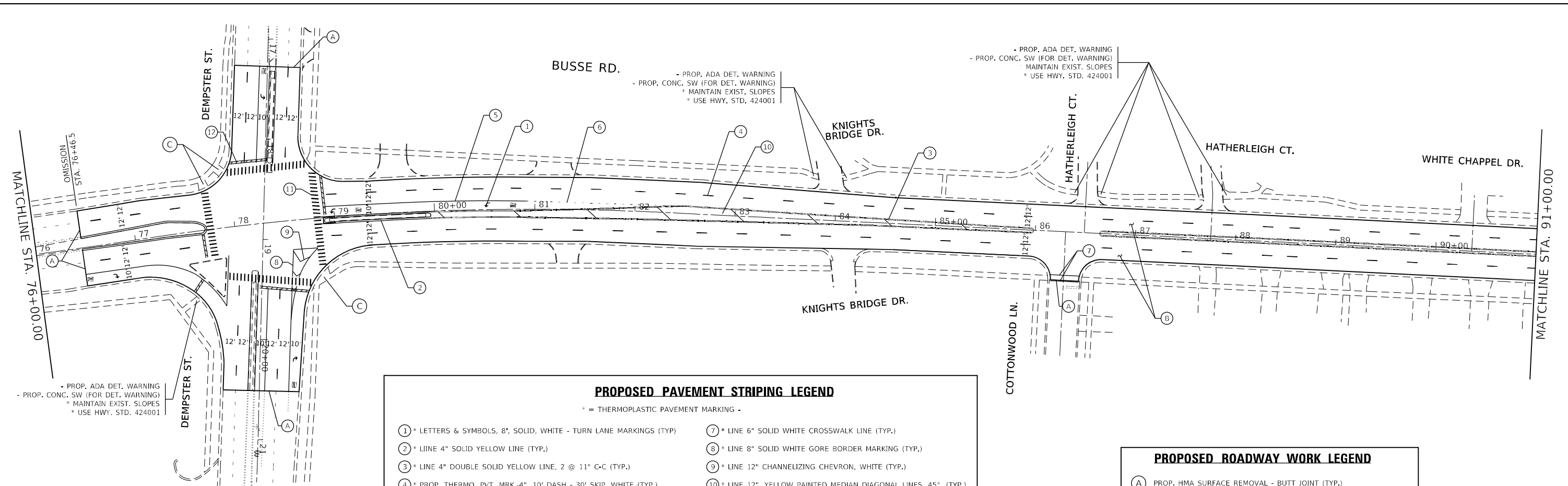
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
BUSSE RD. (IL. 72 TO IL. 58)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	11
CONTRACT NO. 62L59				
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 YELLOW LINE (TYP.)
- ③ * LINE 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.)
- ④ * PROP. THERMO. PVT. MRK.-4", 10' DASH - 30" SKIP, WHITE (TYP.)
- ⑤ * LINE 6" SOLID WHITE TURN LANE LINE (TYP.)
- ⑥ * LINE 6" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.)
- ⑦ * LINE 6" SOLID WHITE CROSSWALK LINE (TYP.)
- ⑧ * LINE 8" SOLID WHITE GORE BORDER MARKING (TYP.)
- ⑨ * LINE 12" CHANNELIZING CHEVRON, WHITE (TYP.)
- ⑩ * LINE 12", YELLOW PAINTED MEDIAN DIAGONAL LINES, 45°, (TYP.)
- ⑪ * LINE 12" THERMO. PVT. MRK. CROSSING, 6-FT BARS, WHITE (TYP.)
- ⑫ * LINE 24" SOLID WHITE STOP BAR (TYP.)

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

PROPOSED ROADWAY WORK LEGEND

- (A) PROP. HMA SURFACE REMOVAL - BUTT JOINT (TYP.)
- (B) PROP. HMA SURFACE REMOVAL, 1 3/4" PROP. POLY. HMA SURFACE CRSE, SMA, 9.5, MIX "F", N80, 1 3/4"
- (C) PROP. ADA CURB RAMP IMPROVEMENT (SEE DESIGN IN DETAIL SHEET)

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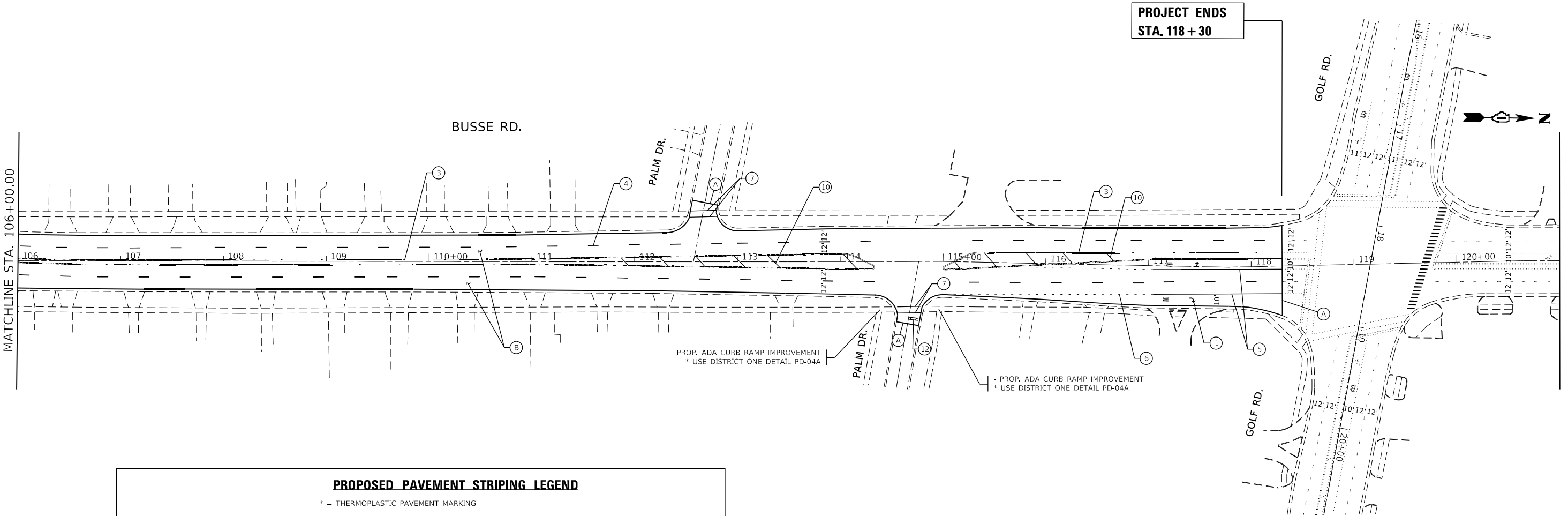
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN	
BUSSE RD. (IL. 72 TO IL. 58)	
SCALE: 1"=50'	SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	12
CONTRACT NO. 62L59				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 106+00.00



PROJECT ENDS
STA. 118 + 30

PROPOSED PAVEMENT STRIPING LEGEND

* = THERMOPLASTIC PAVEMENT MARKING -

- | | |
|---|--|
| ① * LETTERS & SYMBOLS, 8", SOLID, WHITE - TURN LANE MARKINGS (TYP.) | ⑦ * LINE 6" SOLID WHITE CROSSWALK LINE (TYP.) |
| ② * LINE 4" SOLID YELLOW LINE (TYP.) | ⑧ * LINE 8" SOLID WHITE GORE BORDER MARKING (TYP.) |
| ③ * LINE 4" DOUBLE SOLID YELLOW LINE, 2 @ 11" C-C (TYP.) | ⑨ * LINE 12" CHANNELIZING CHEVRON, WHITE (TYP.) |
| ④ * PROP. THERMO, PVT. MRK.-4", 10' DASH - 30' SKIP, WHITE (TYP.) | ⑩ * LINE 12", YELLOW PAINTED MEDIAN DIAGONAL LINES, 45°, (TYP.) |
| ⑤ * LINE 6" SOLID WHITE TURN LANE LINE (TYP.) | ⑪ * LINE 12" THERMO. PVT. MRK. CROSSING, 6-FT BARS, WHITE (TYP.) |
| ⑥ * LINE 6" SKIP-DASH WHITE LINE, 2' DASH - 6' SKIP (TYP.) | ⑫ * LINE 24" SOLID WHITE STOP BAR (TYP.) |

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

PROPOSED ROADWAY WORK LEGEND

- | | |
|-----|---|
| (A) | PROP. HMA SURFACE REMOVAL - BUTT JOINT (TYP.) |
| (B) | PROP. HMA SURFACE REMOVAL, 1 3/4"
PROP. POLY. HMA SURFACE CRSE, SMA, 9.5, MIX "F", N80, 1 3/4" |
| (C) | PROP. ADA CURB RAMP IMPROVEMENT (SEE DESIGN IN DETAIL SHEET) |

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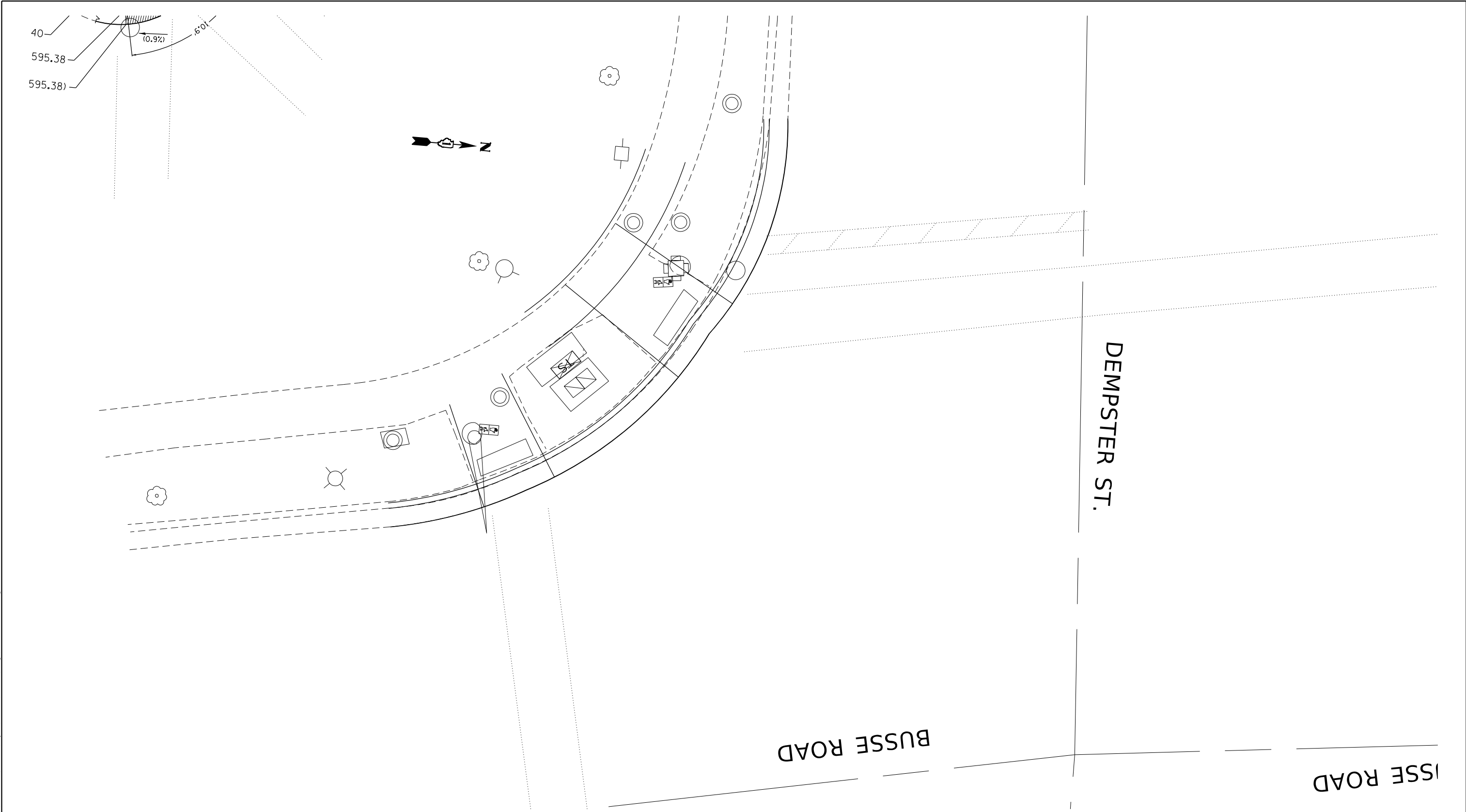
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ROADWAY PLAN
BUSSE RD. (IL. 72 TO IL. 58)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	13
CONTRACT NO. 62L59				
ILLINOIS FED. AID PROJECT				



REFERENCE BENCHMARK ELEV: 686.64
 BENCHMARK DESCRIPTION : SQUARE ON N.E. CORNER OF T.C.B.
 BENCHMARK LOCATION : AT S.W. CORNER OF BUSSE RD. AND DEMPSTER ST.

LEGEND

xx.xx'	EXISTING LENGTH		PROPOSED SIDEWALK
====	PROPOSED SIDE CURB		DETECTABLE WARNINGS
()	EXISTING ELEVATION/SLOPE		SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

**PROPOSED CURB RAMPS IMPROVEMENT LOCATION:
 SW CORNER OF BUSSE RD. AND DEMPSTER ST.**

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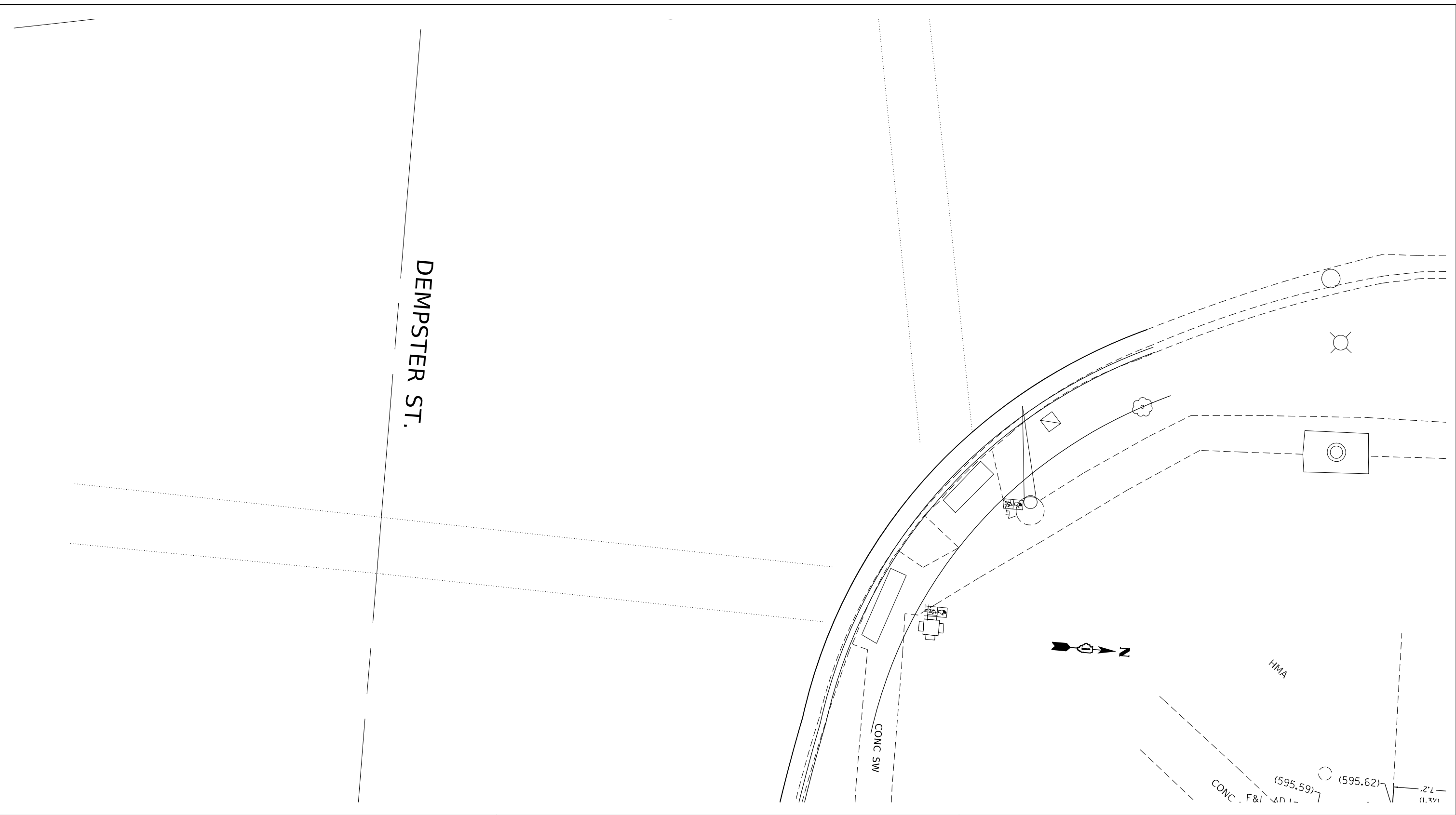
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PLOT DATE = 1/29/2021	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SIDEWALK DETAIL PLAN BUSSE RD. (IL. 72 TO IL. 58)				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	14
ILLINOIS FED. AID PROJECT				

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REFERENCE BENCHMARK ELEV: 686.64
 BENCHMARK DESCRIPTION : SQUARE ON N.E. CORNER OF T.C.B.
 BENCHMARK LOCATION : AT S.W. CORNER OF BUSSE RD. AND DEMPSTER ST.

LEGEND

xx.xx	EXISTING LENGTH		PROPOSED SIDEWALK
	PROPOSED SIDE CURB		DETECTABLE WARNINGS
()	EXISTING ELEVATION/SLOPE		SIDEWALK REMOVAL REPLACE W/TOPSOIL & SOD

**PROPOSED CURB RAMPS IMPROVEMENT LOCATION:
NE CORNER OF BUSSE RD. AND DEMPSTER ST.**

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

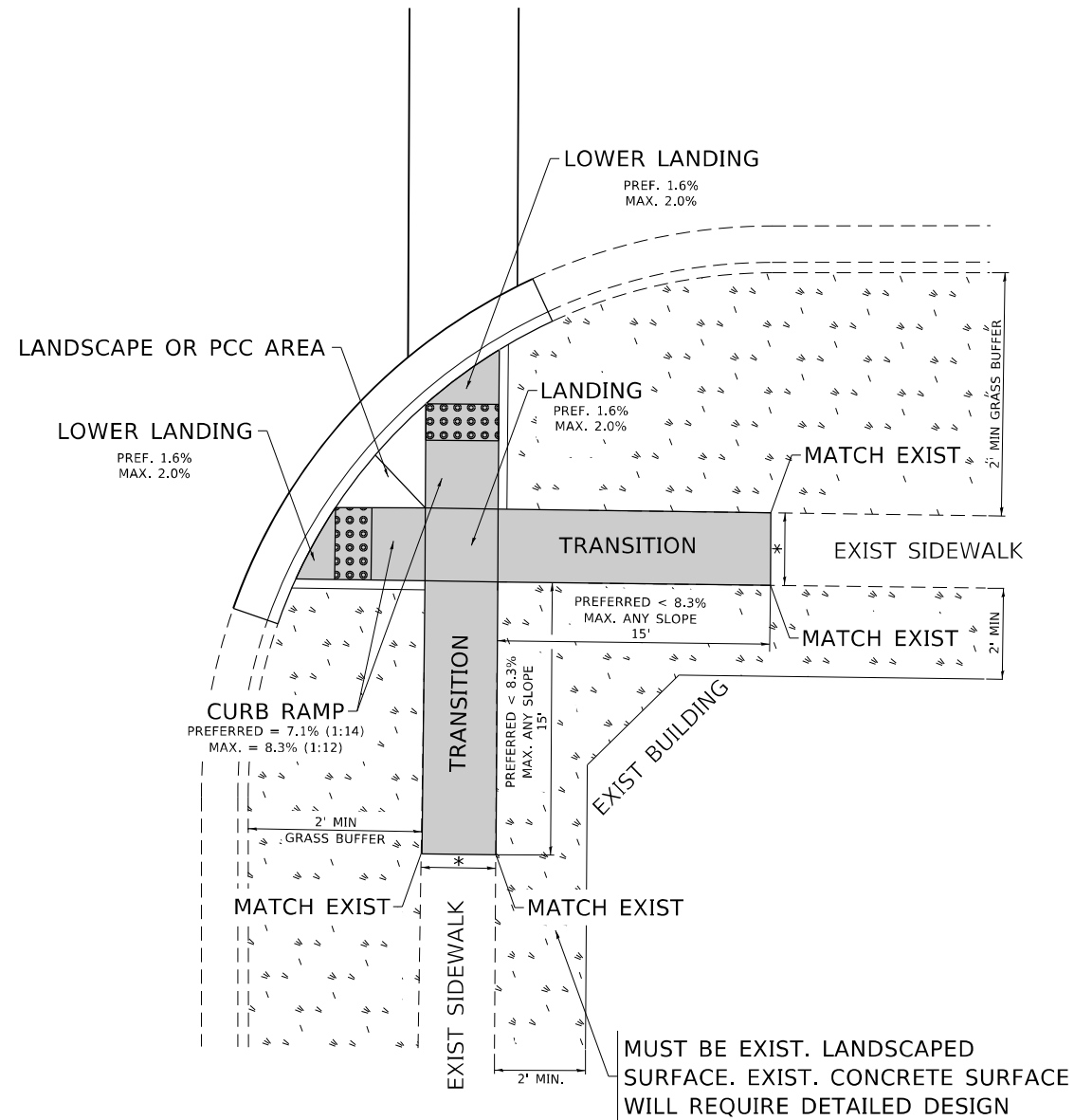
**SIDEWALK DETAIL PLAN
BUSSE RD. (IL. 72 TO IL. 58)**

SCALE: SHEET OF SHEETS STA. TO STA.

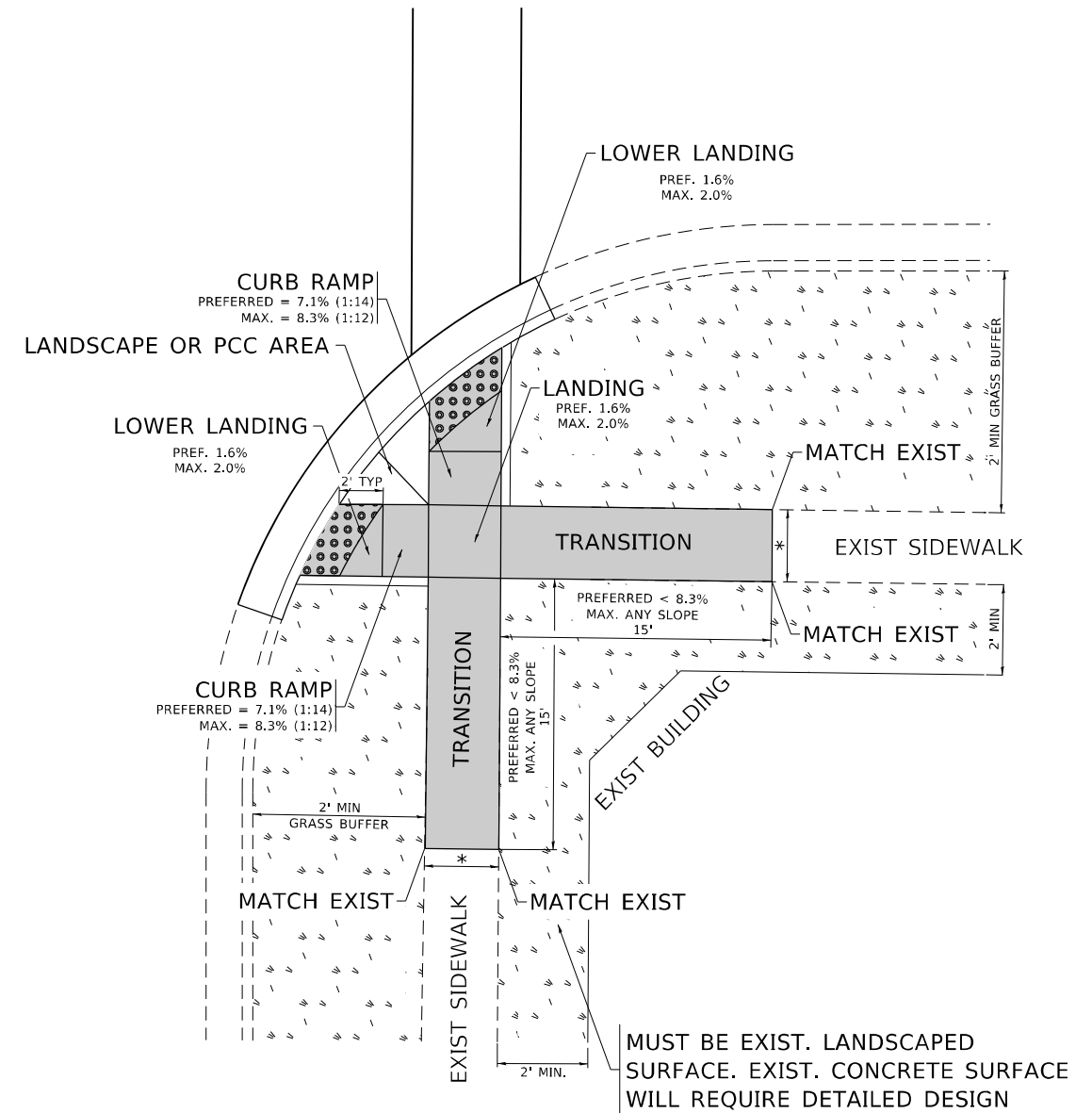
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CONTRACT NO. 62L59				
ILLINOIS FED. AID PROJECT				

ADA DETAIL FOR DOUBLE PERPENDICULAR CURB RAMPS

PD-03A



PD-03B



LEGEND

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

CONSTRUCTION NOTES:

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

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

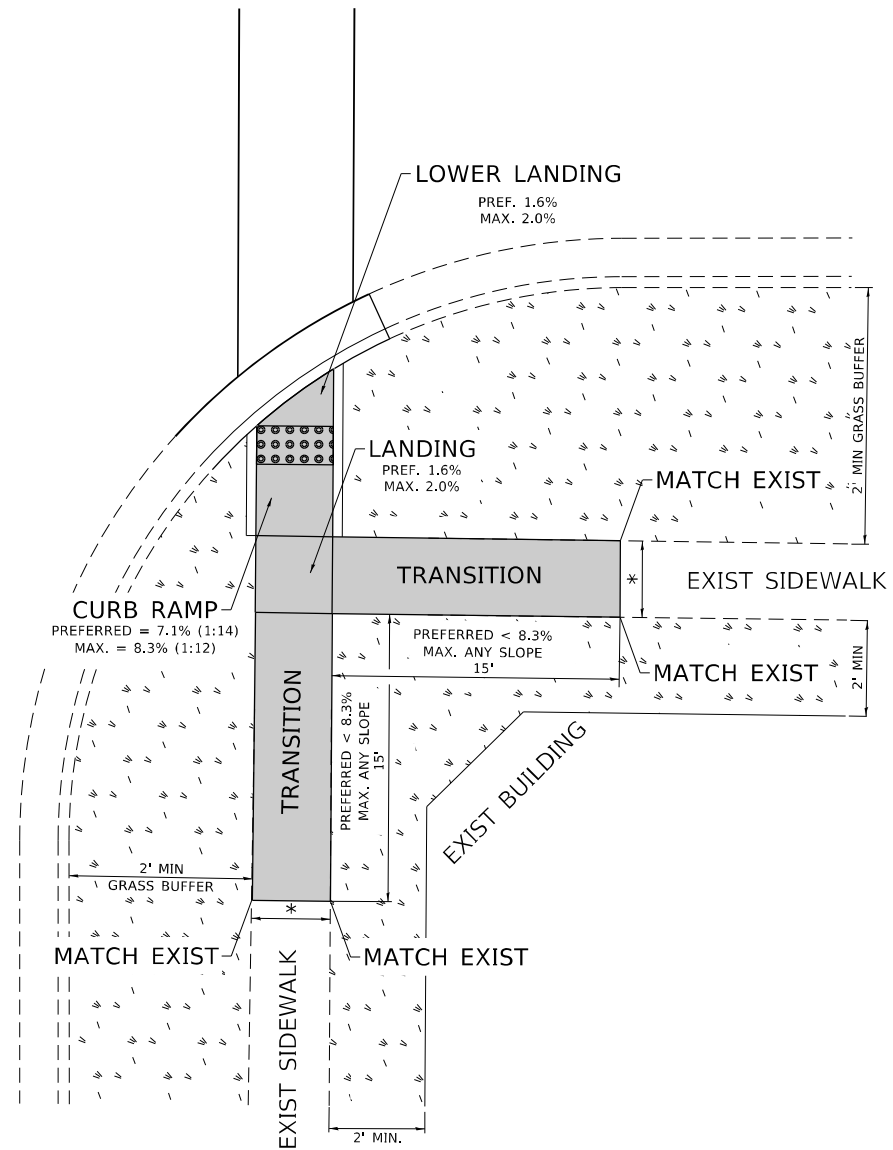
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(PD-03)**

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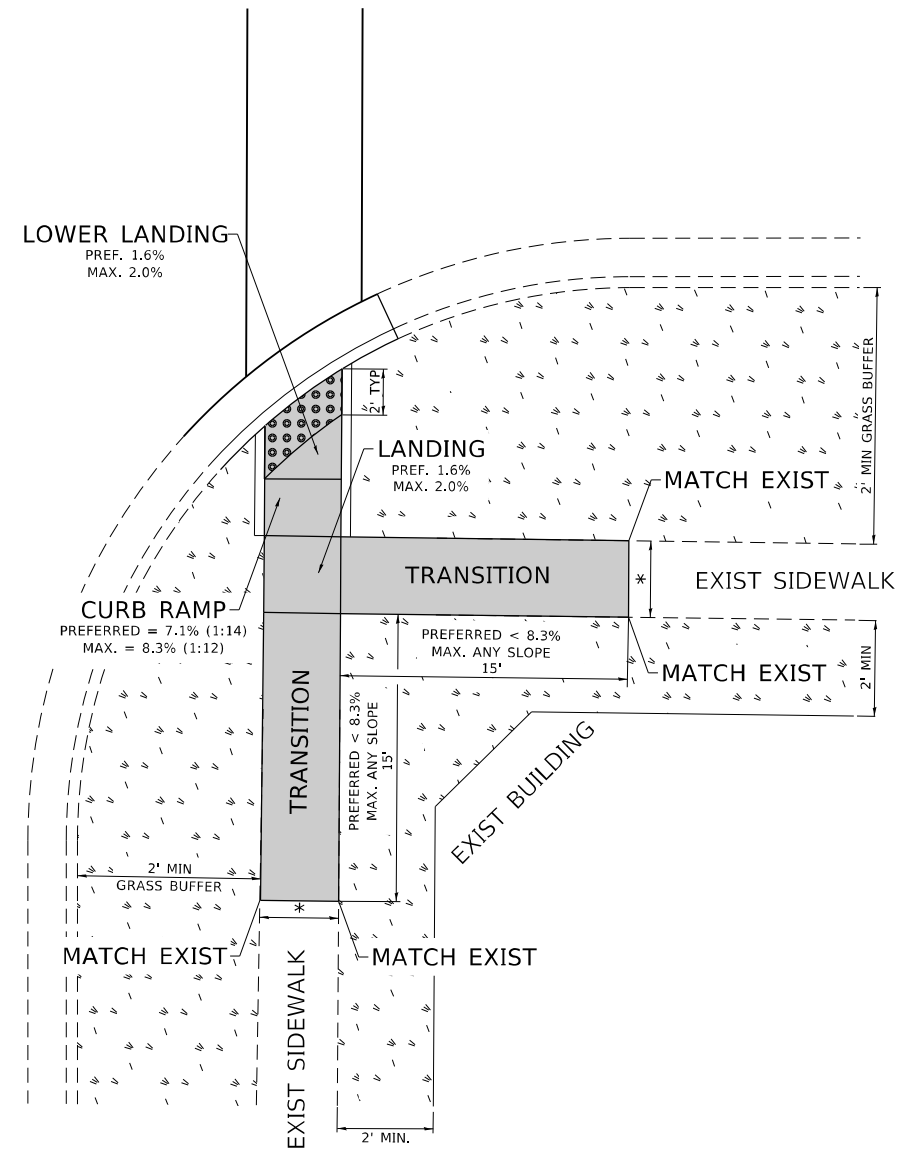
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2660	2020-081-R5	COOK	32	16
PD-03		CONTRACT NO. 62L59		
ILLINOIS FED. AID PROJECT				

ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ TURNING SPACE

PD-04A



PD-04B



LEGEND

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

CONSTRUCTION NOTES:

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

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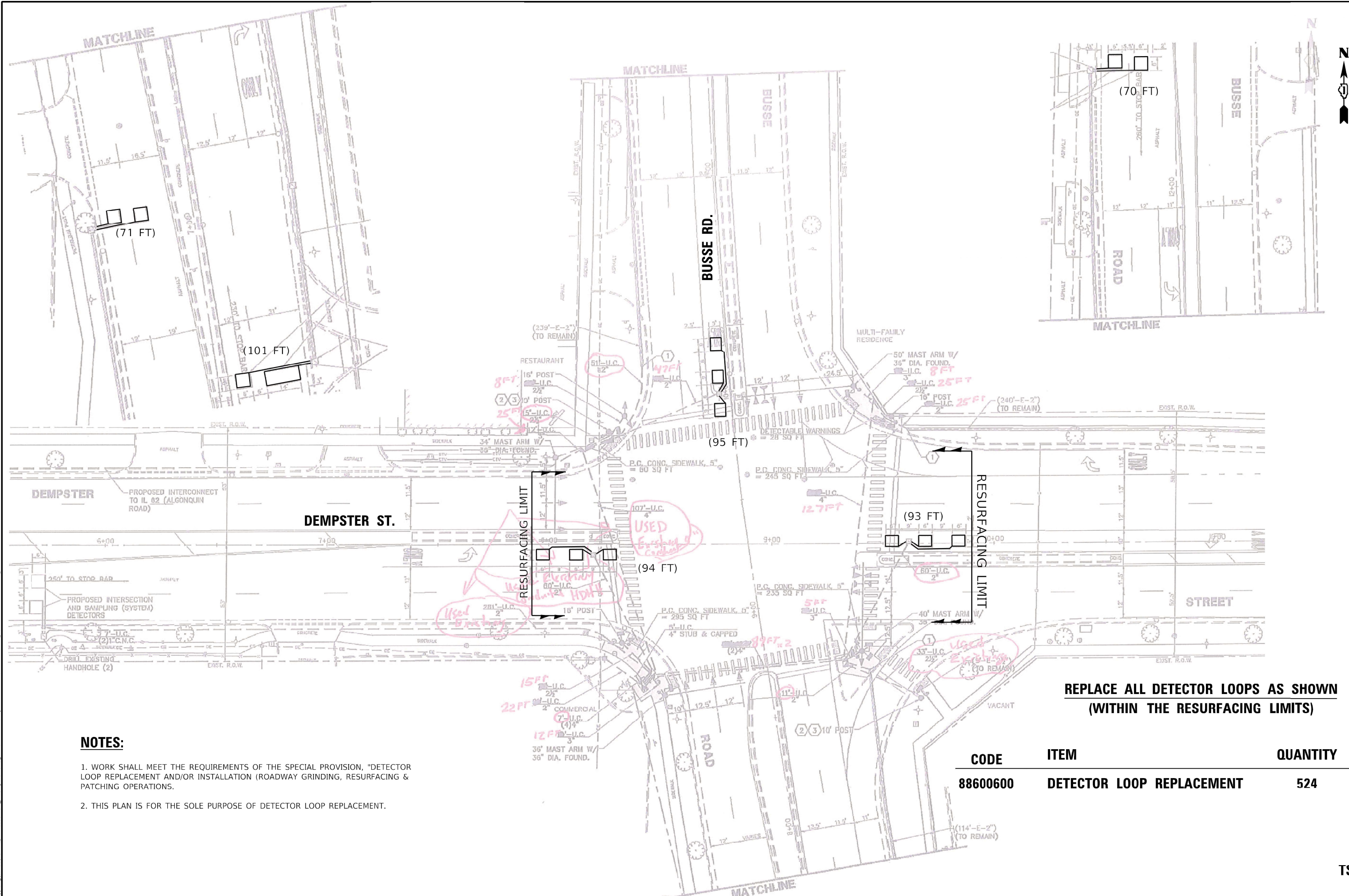
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PLOT DATE = 1/29/2021	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS WITH
TURNING SPACE (PD-04)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	17
PD-04		CONTRACT NO. 62L59		
ILLINOIS FED. AID PROJECT				



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

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.

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	524	FOOT

TS 4250

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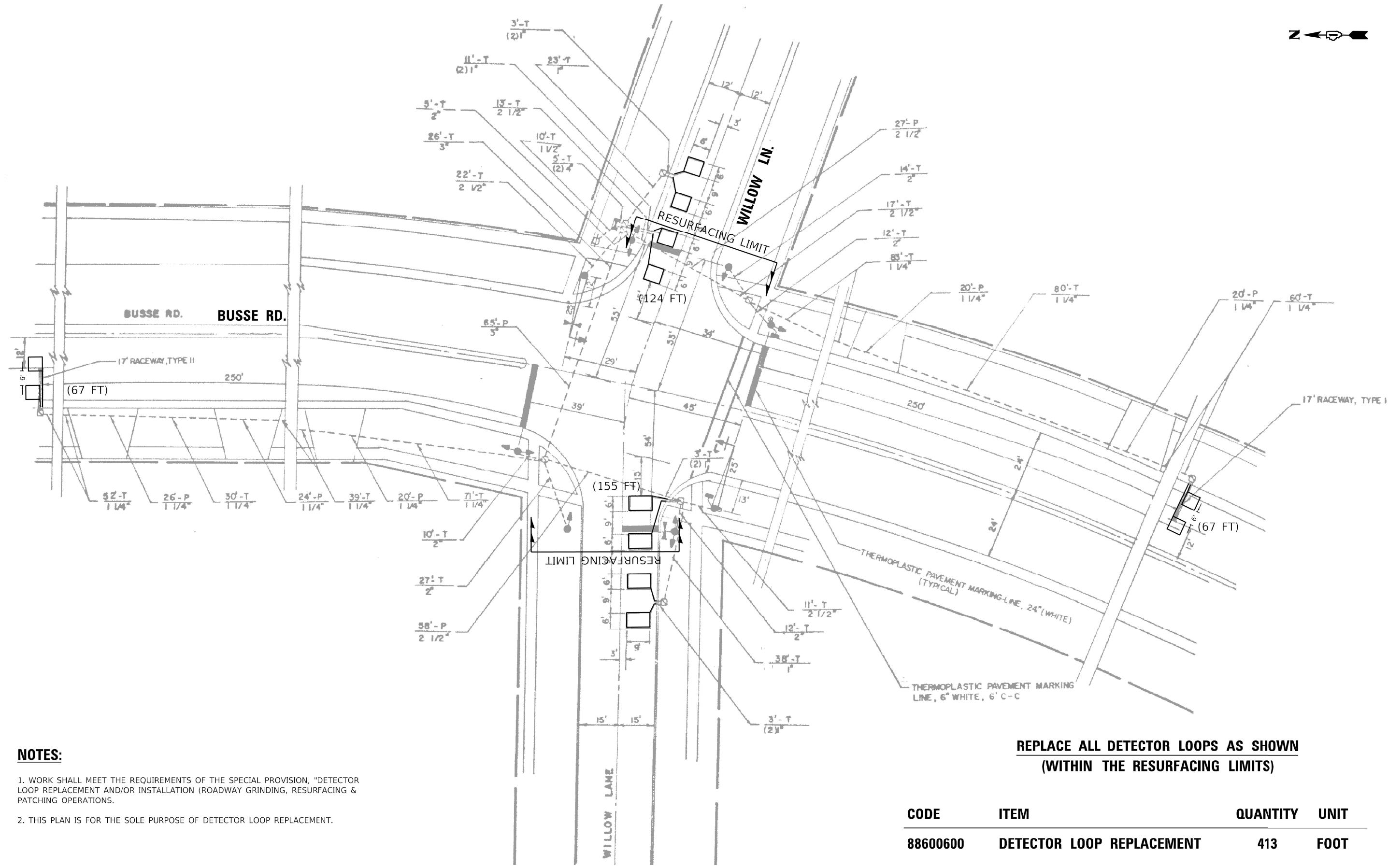
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	DATE - 1/14/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
BUSSE RD. AT DEMPSTER ST.**

SCALE: 1"=20'	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-RS	COOK	32	18
CONTRACT NO. 62L59			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)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	413	FOOT

TS 9675

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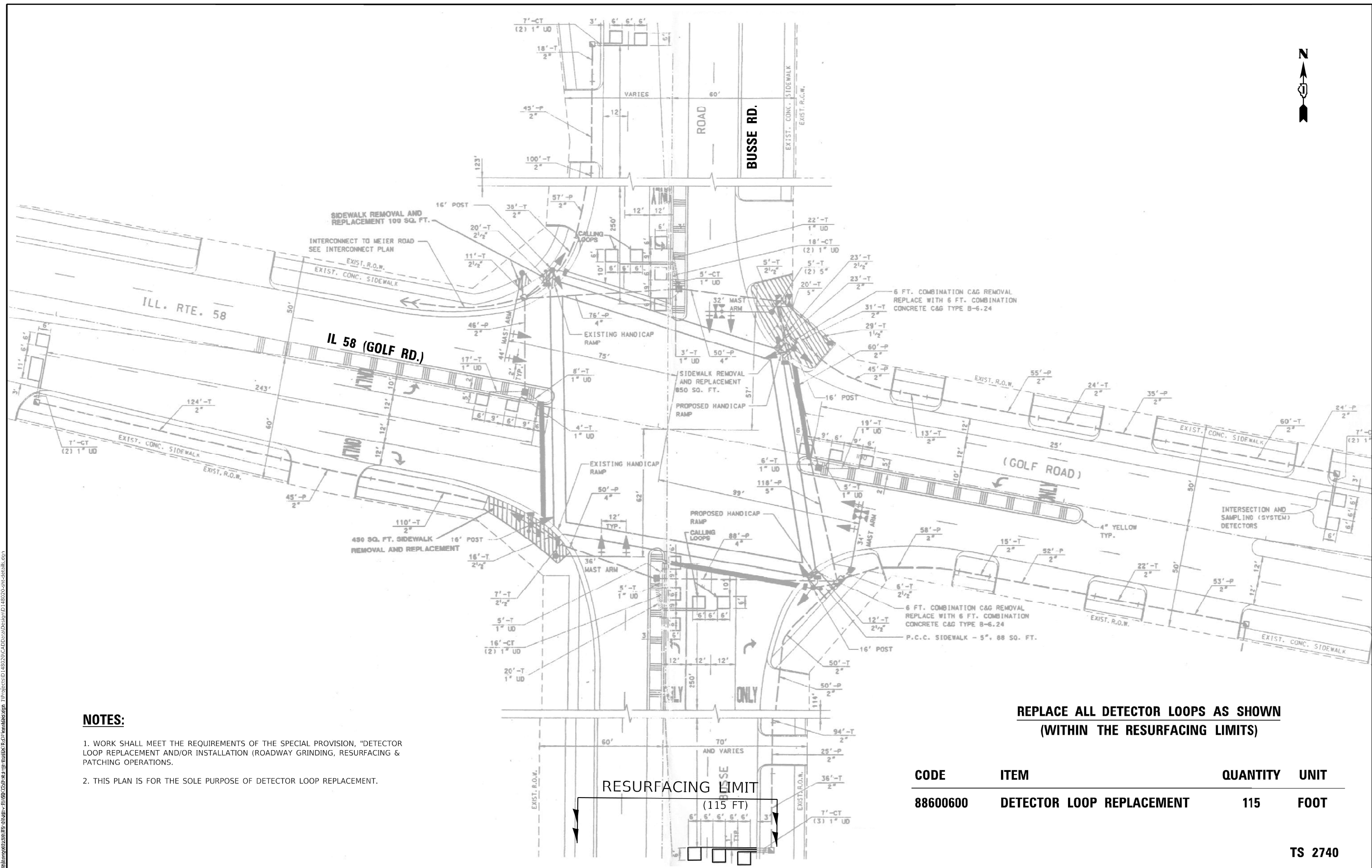
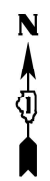
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PLOT DATE = 1/29/2021	CHECKED - LP	REVISED -
	DATE - 1/14/2020	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
BUSSE RD. AT WILLOW LN.**

SCALE: 1"=20'	SHEET	OF	SHEETS	STA.	TO STA.
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F.A.P. RTE. 2660	SECTION 2020-081-R5	COUNTY COOK	TOTAL SHEETS 32	SHEET NO. 19
CONTRACT NO. 62L59				
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)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	115	FOOT

TS 2740

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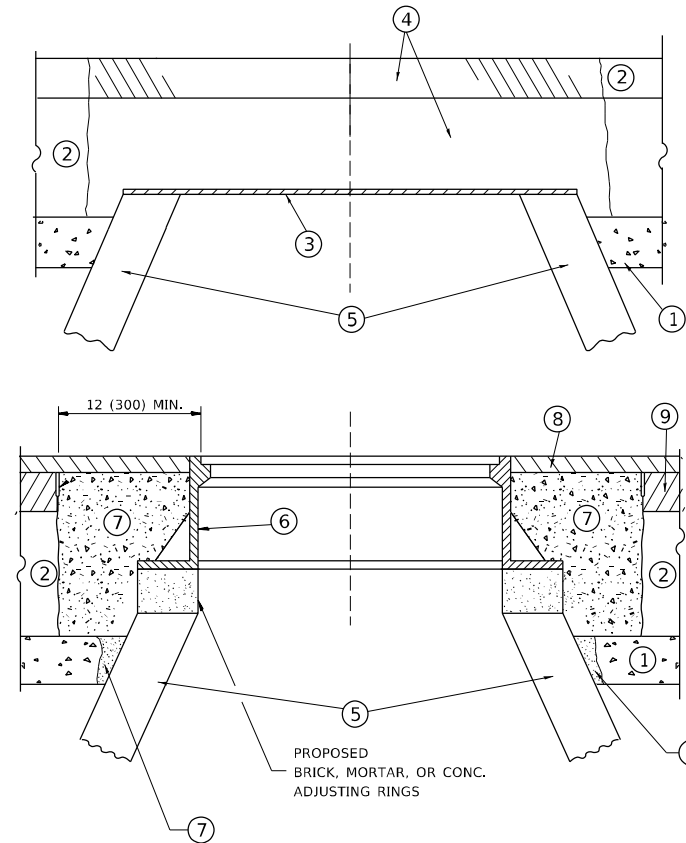
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
BUSSE RD. AT IL 58 (GOLF RD.)**

SCALE: 1"=20'	SHEET	OF	SHEETS	STA.	TO	STA.
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F.A.P. RTE. 2660	SECTION 2020-081-R5	COUNTY COOK	TOTAL SHEETS 32	SHEET NO. 20
				CONTRACT NO. 62L59
ILLINOIS FED. AID PROJECT				



NOTES

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

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

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

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

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

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

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

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

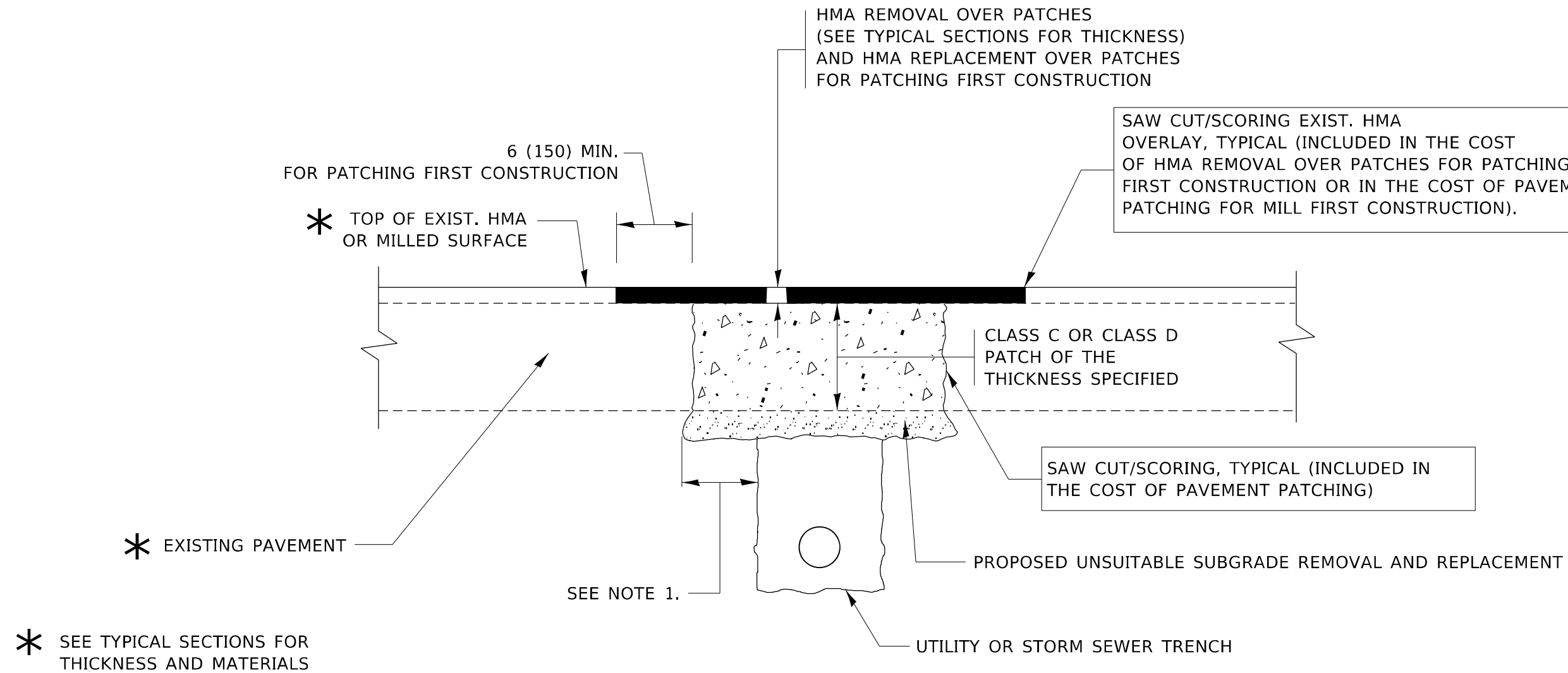
DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING

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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	21
BD600-03 (BD-8)		CONTRACT NO. 62L59		
ILLINOIS FED. AID PROJECT				

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	DRAWN -	REVISED - R. BORO 01-01-07
PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - R. BORO 03-09-11
PLOT DATE = 1/29/2021	DATE - 10-25-94	REVISED - R. BORO 12-06-11

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NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

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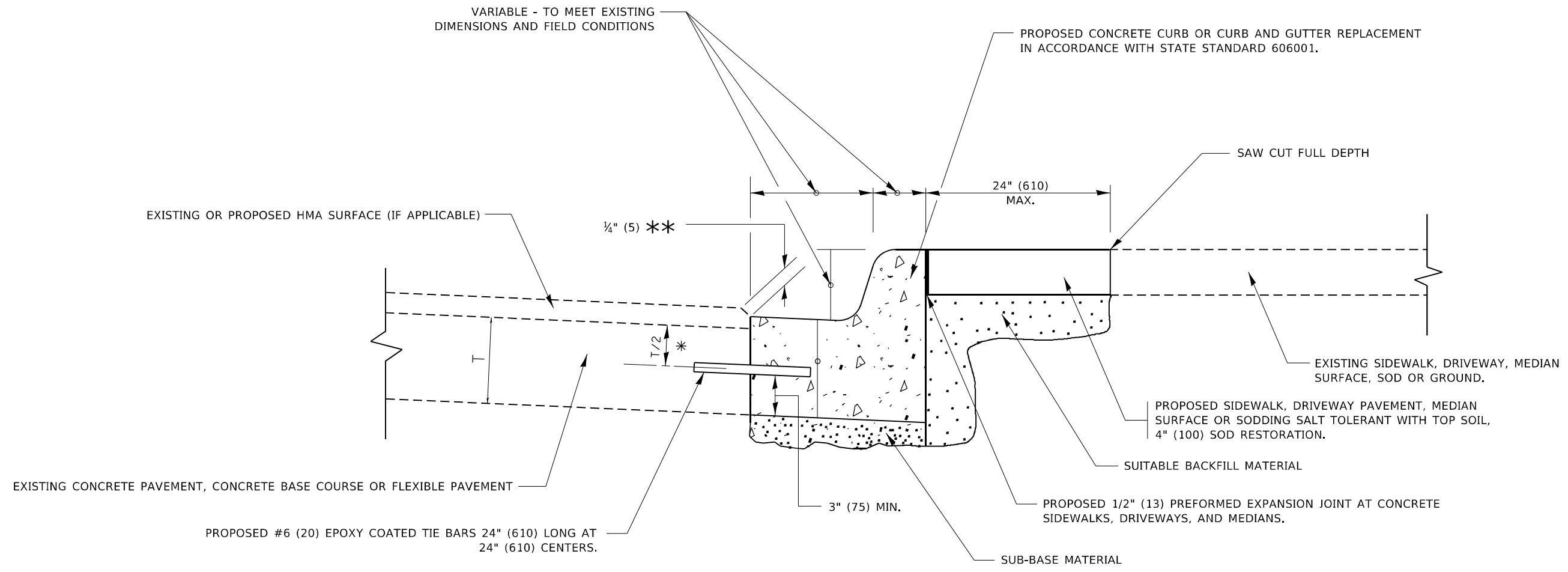
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PLOT DATE = 1/29/2021	DATE - 10-25-94	REVISED - K. ENG 10-27-08

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PAVEMENT PATCHING FOR
HMA SURFACED PAVEMENT**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	22
BD400-04 (BD-22)		CONTRACT NO. 62L59		
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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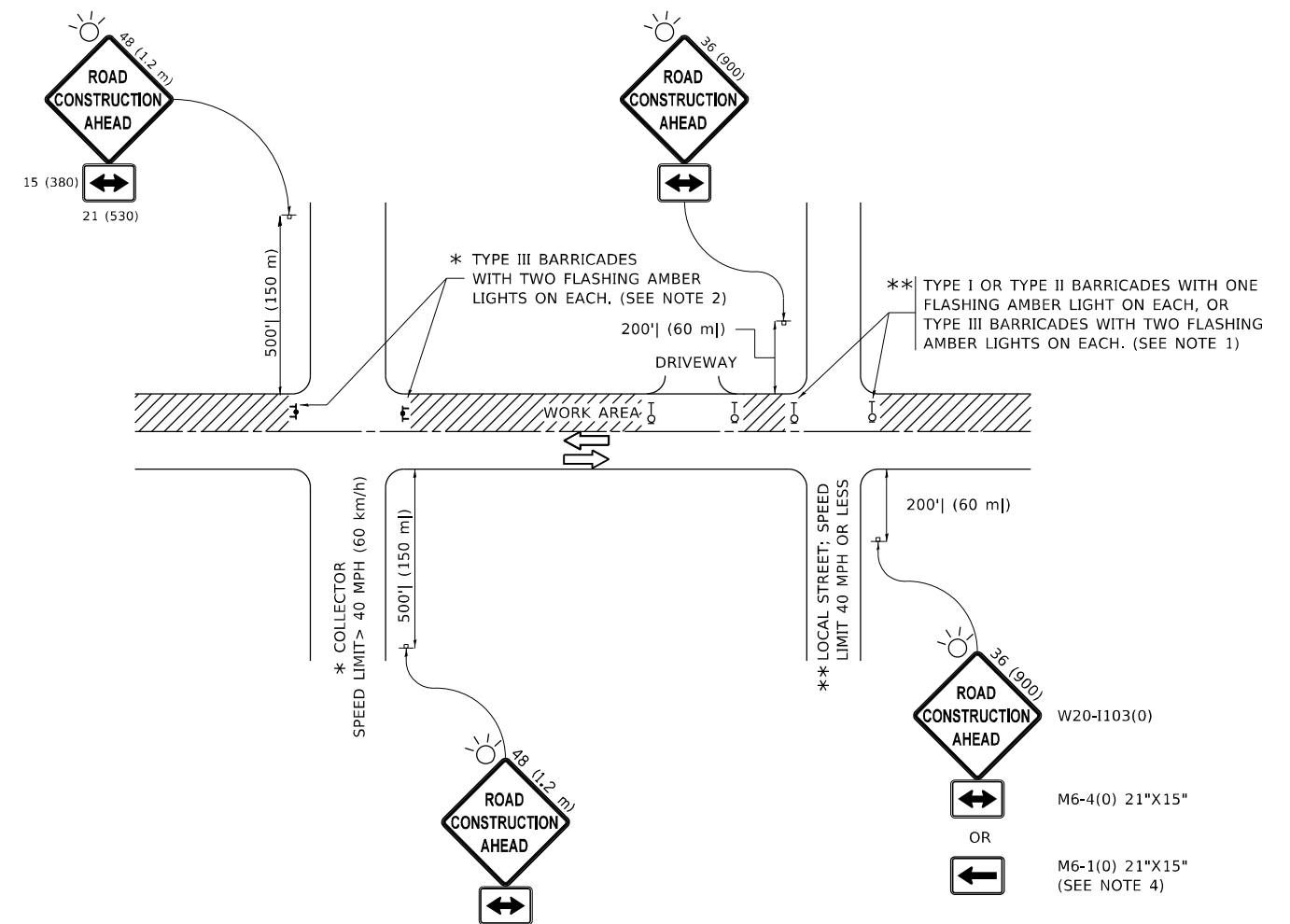
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PLOT DATE = 1/29/2021	DATE - 03-11-94	REVISED - K. SMITH 07-11-19

**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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	23
BD600-06 (BD-24)		CONTRACT NO. 62L59		
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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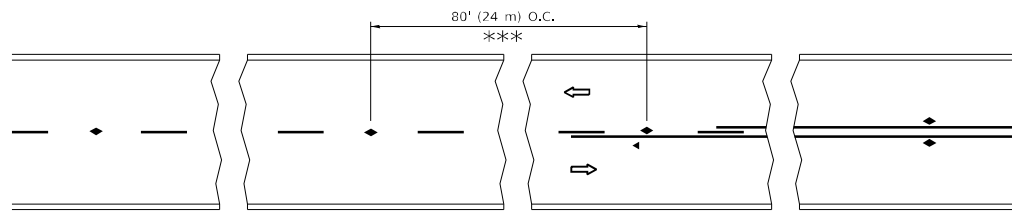
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		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

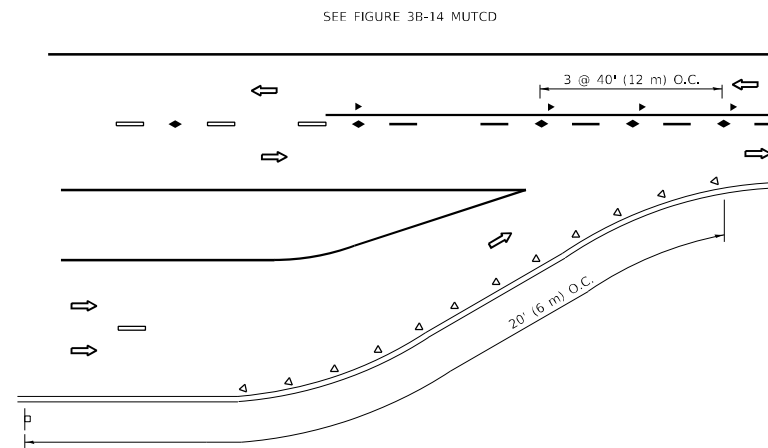
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TC-10			CONTRACT NO. 62L59	
ILLINOIS FED. AID PROJECT				

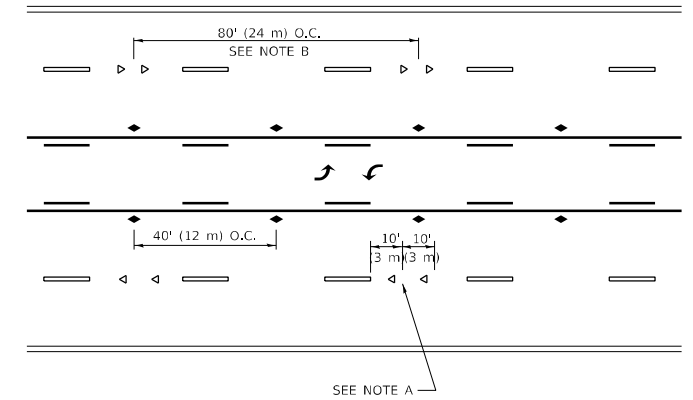


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

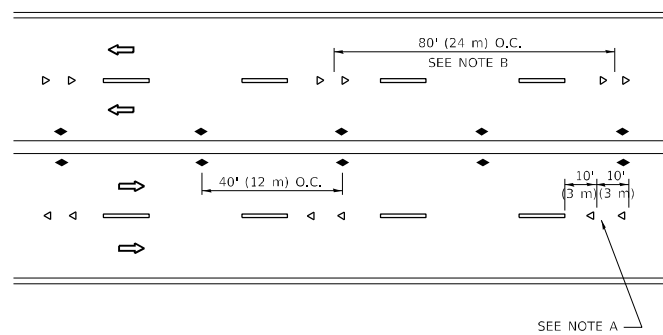
TWO-LANE/TWO-WAY



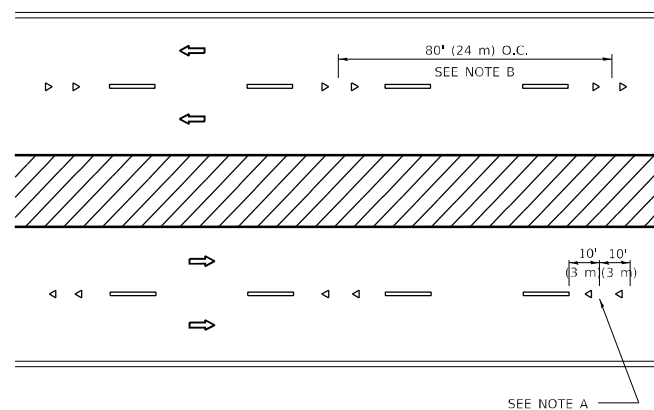
LANE REDUCTION TRANSITION



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

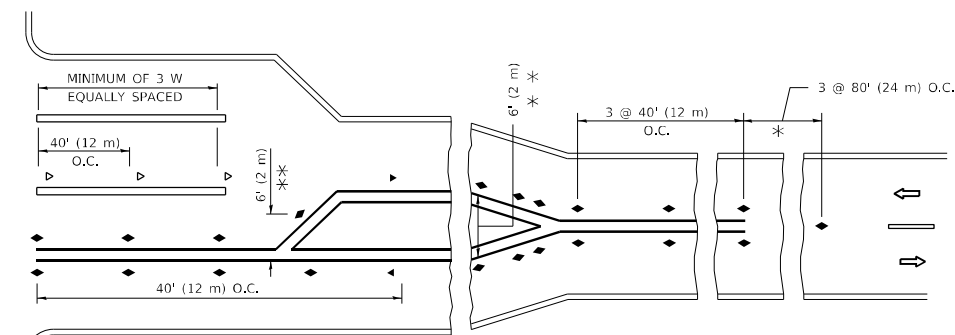
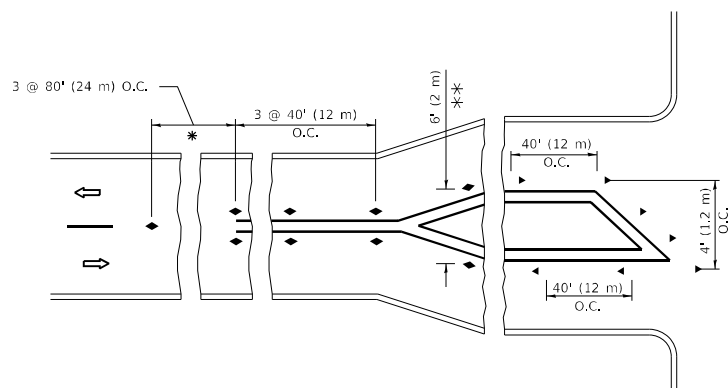
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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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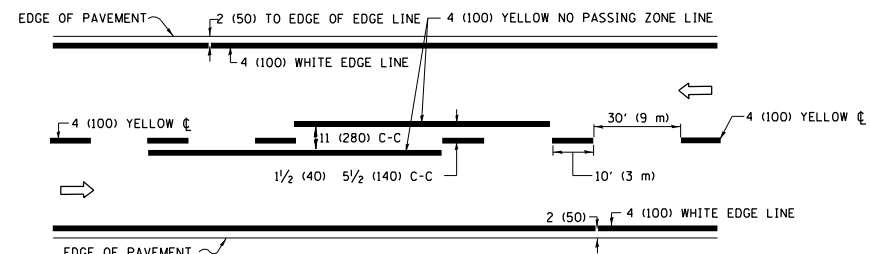
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

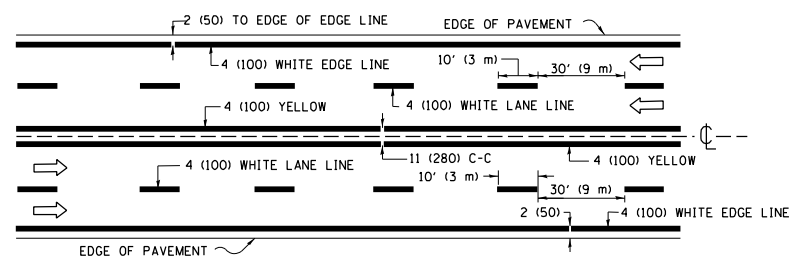
**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

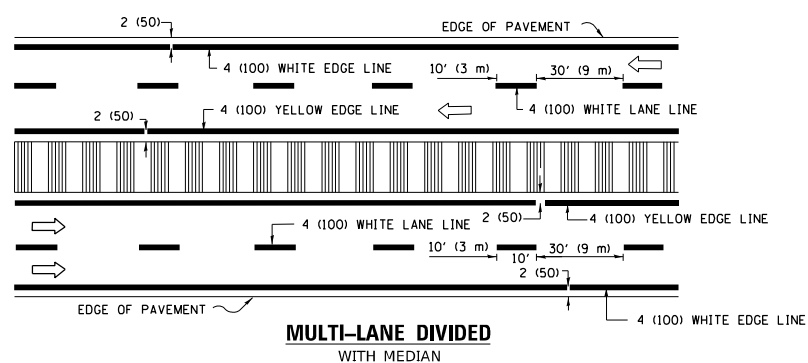
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	26
TC-11			CONTRACT NO. 62L59	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

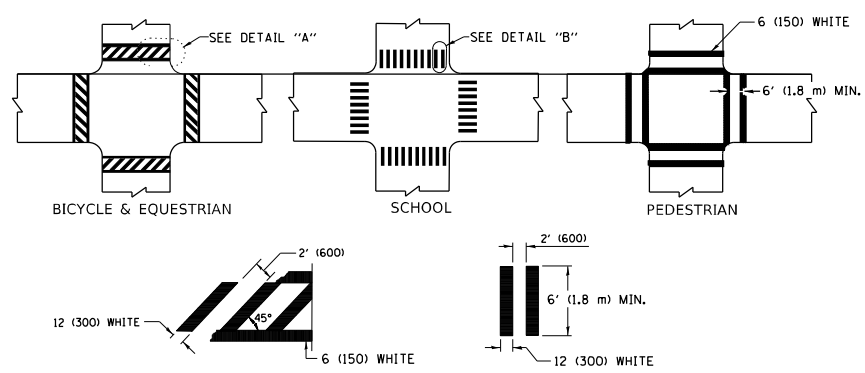


MULTI-LANE UNDIVIDED



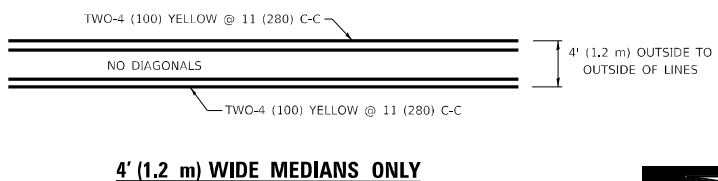
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

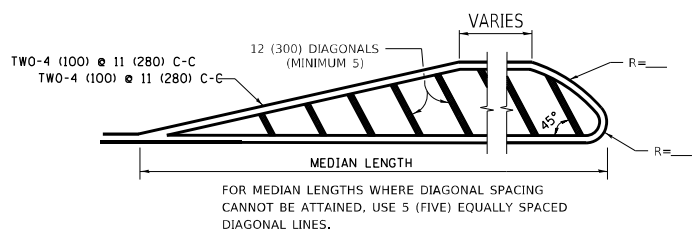


TYPICAL CROSSWALK MARKING

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

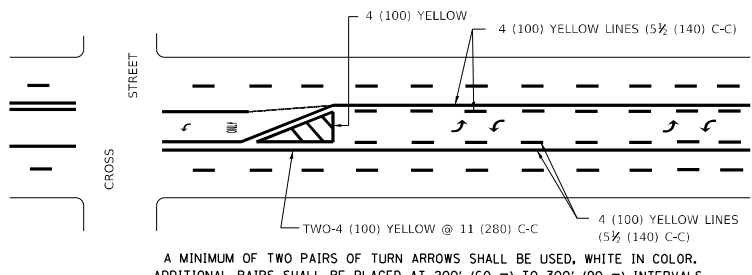


4' (1.2 m) WIDE MEDIANS ONLY

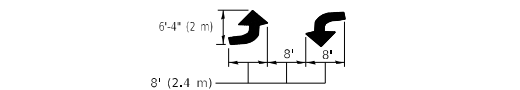


MEDIANS OVER 4' (1.2 m) WIDE

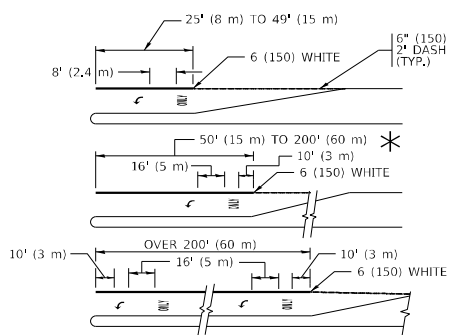
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



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.

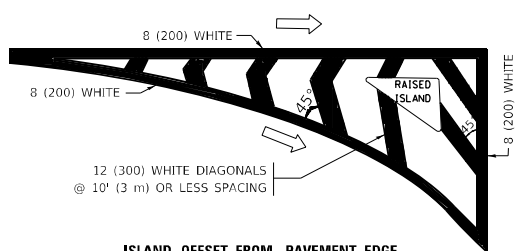


MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING

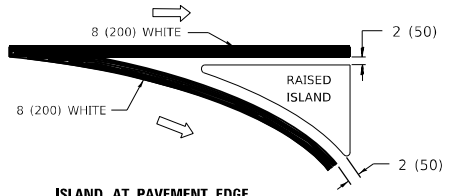


FULL SIZE LETTERS 8" (2.4 m) AND ARROWS SHALL BE USED.
* AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)
* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - *ONLY* INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - *ONLY*.

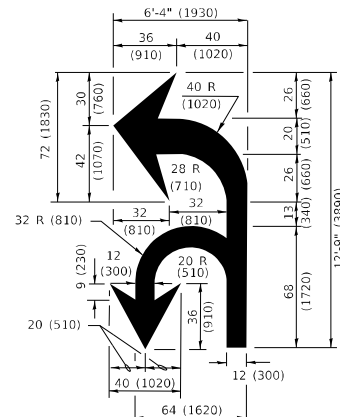
TYPICAL LEFT (OR RIGHT) TURN LANE
TYPICAL TURN LANE MARKING



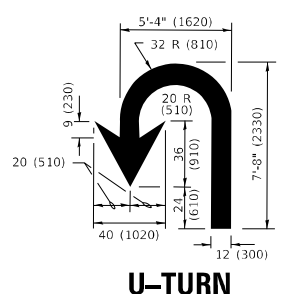
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE
TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 8' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
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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	DRAWN -	REVISED - C. JUCIUS 07-01-13
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PLOT DATE = 1/29/2021	DATE - 03-19-90	REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE	SHEET 1 OF 2 SHEETS	STA. TO STA.	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			2660	2020-081-R5	COOK	32	27
				TC-13			CONTRACT NO. 62L59

ILLINOIS FED. AID PROJECT

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

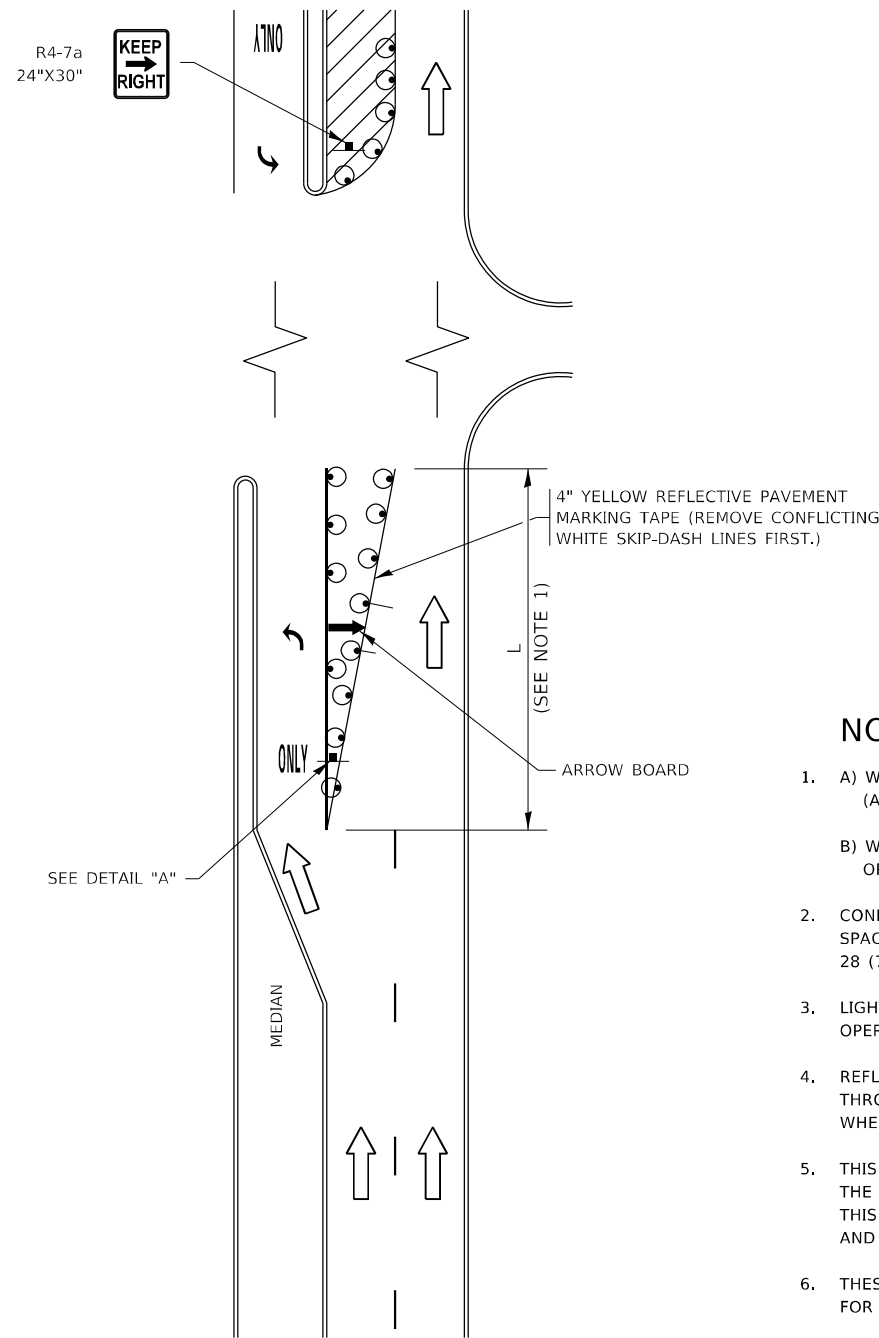


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

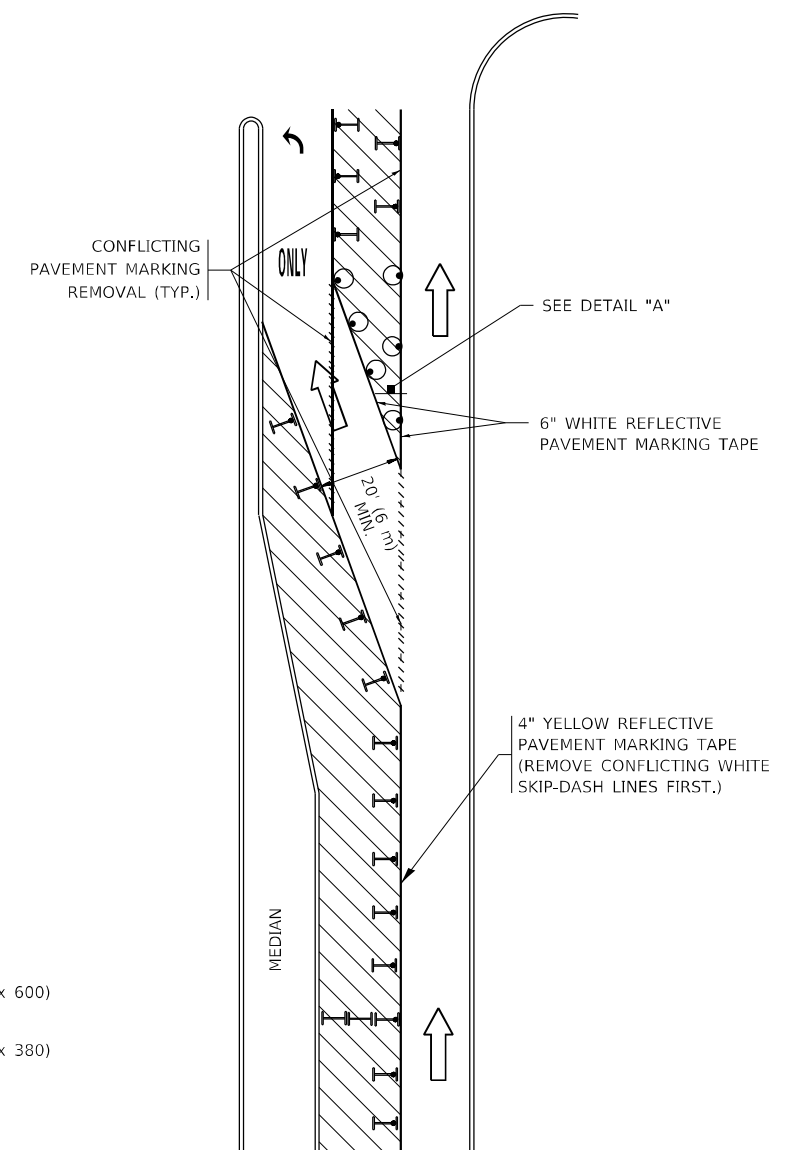


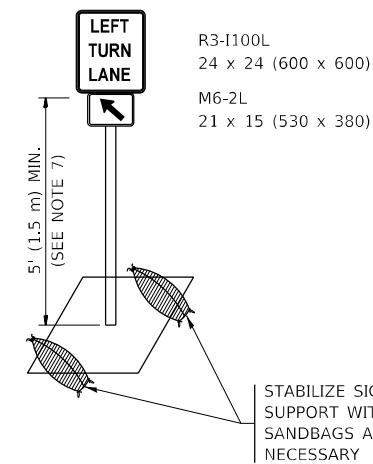
FIGURE 2

LEGEND

- WORK AREA
- LANE OPEN TO TRAFFIC
- ARROW BOARD
- TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT
- DRUM WITH STEADY BURN LIGHT
- SIGN ASSEMBLY
- TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

NOTES:

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



DETAIL A

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

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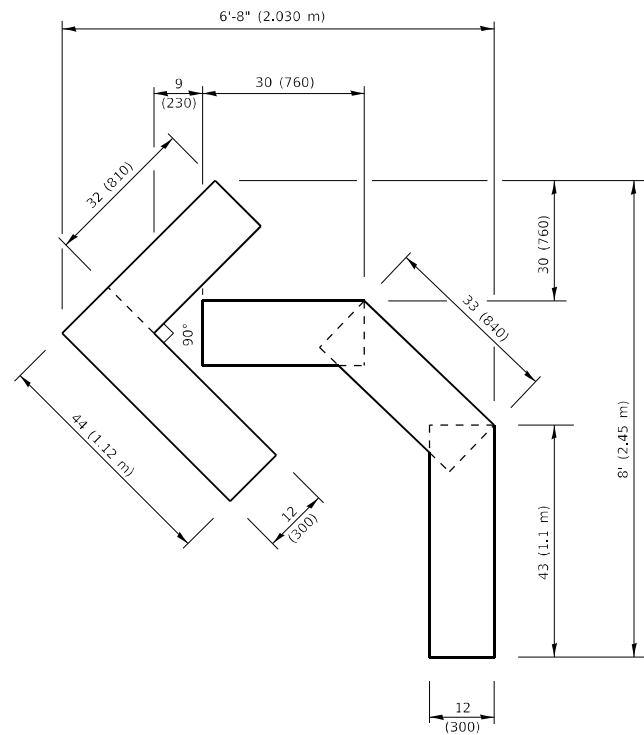
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	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100,0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 1/29/2021	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

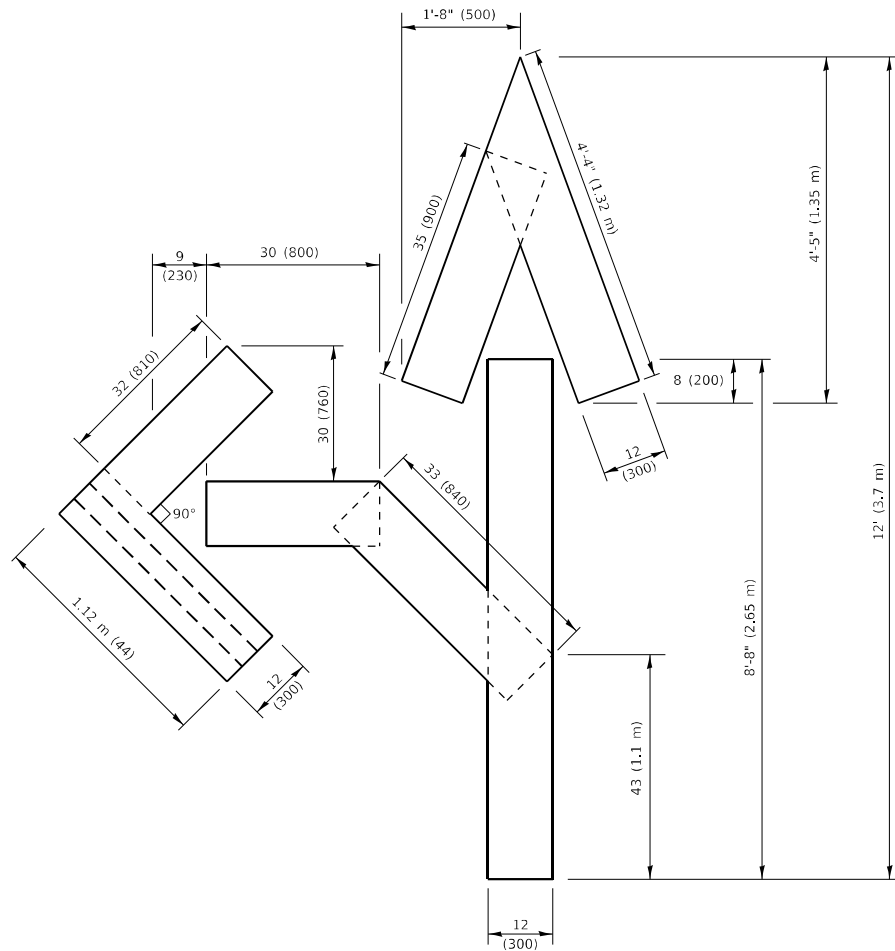
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	28
TC-14		CONTRACT NO. 62L59		
ILLINOIS FED. AID PROJECT				



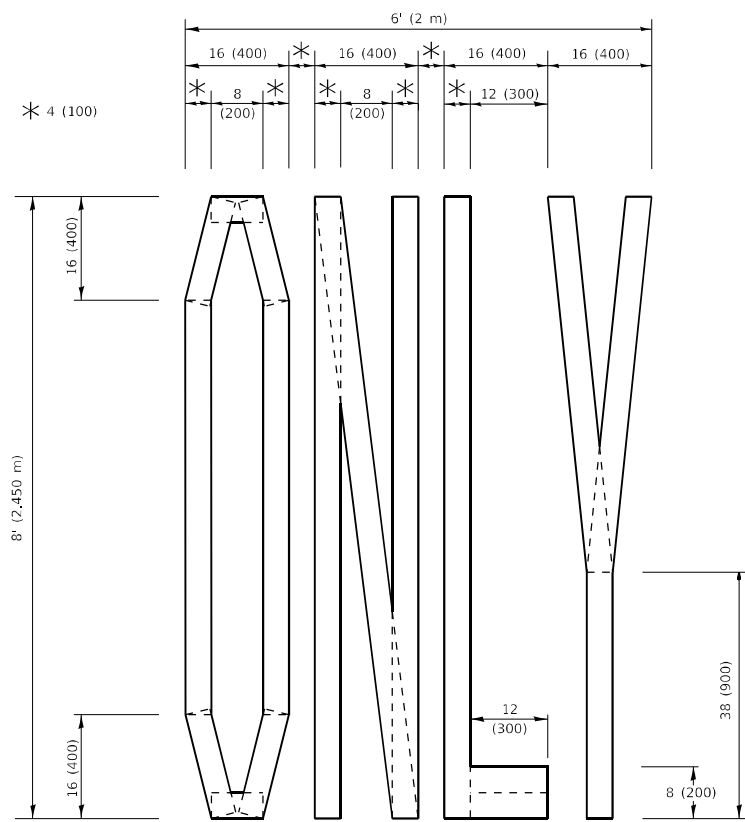
QUANTITY

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



QUANTITY

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

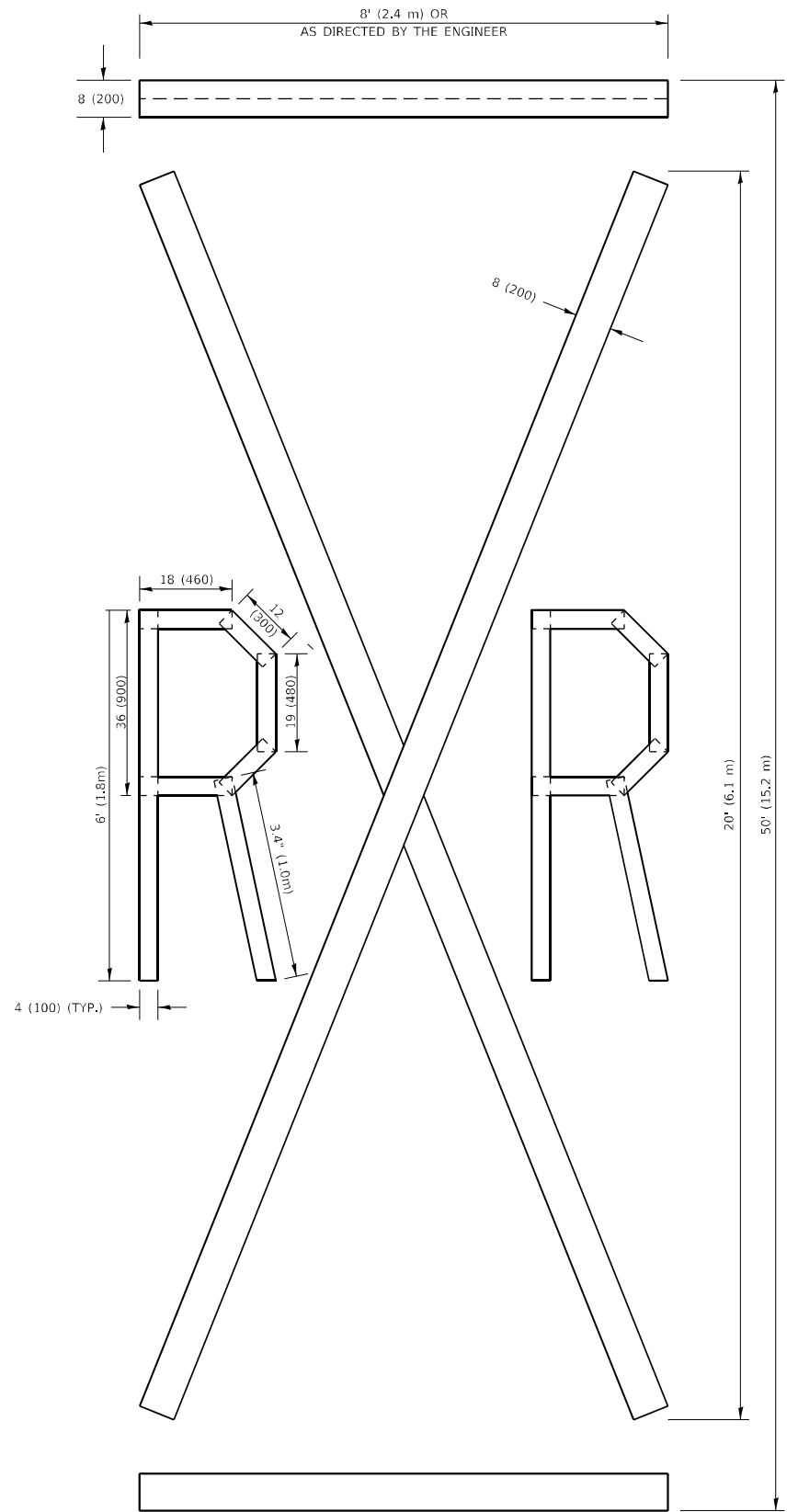


QUANTITY

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

NOTE:

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



QUANTITY

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

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

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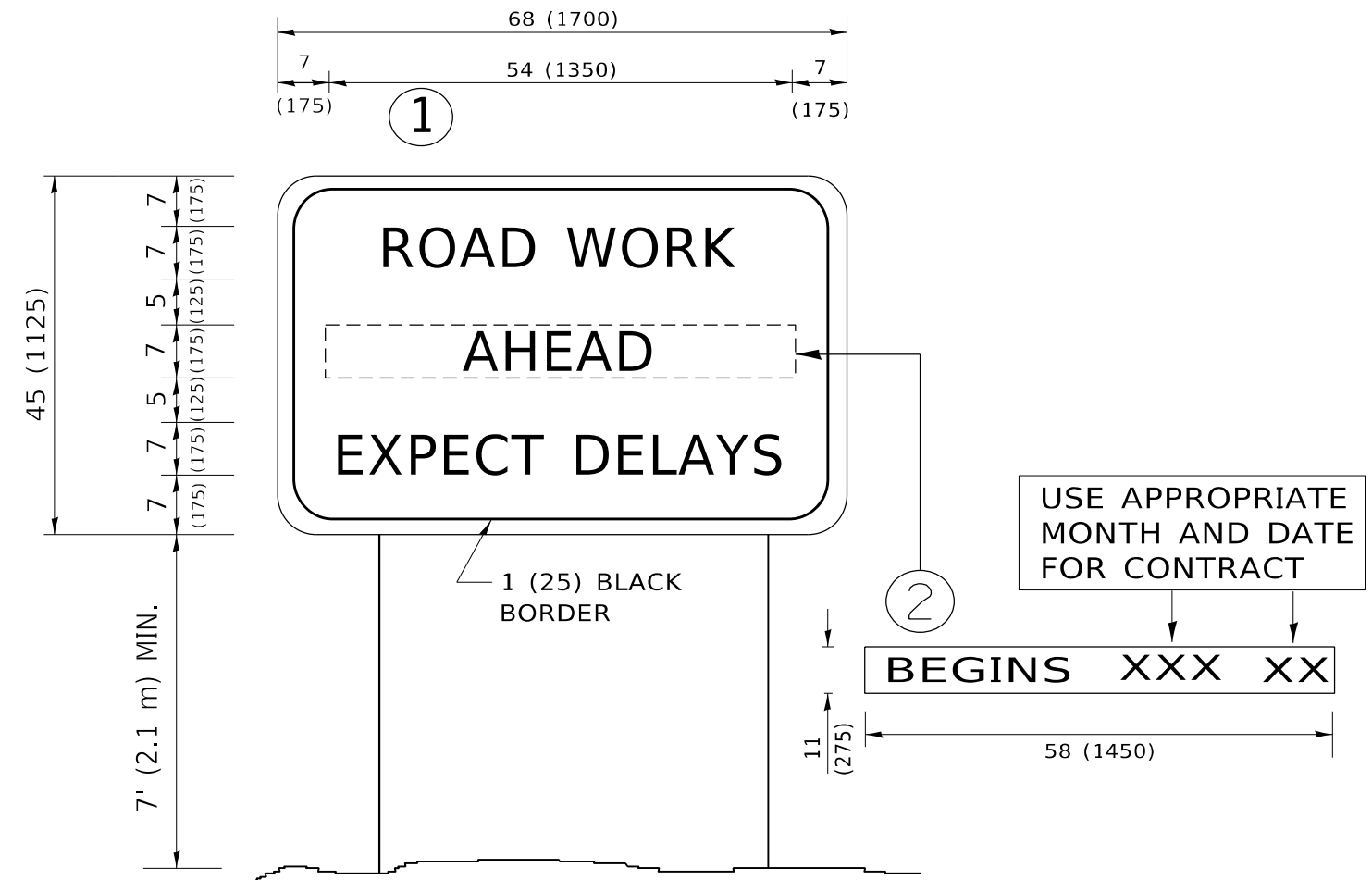
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	DRAWN -	REVISED - E. GOMEZ 08-28-00
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PLOT DATE = 1/29/2021	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	29
TC-16		CONTRACT NO. 62L59		
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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PLOT SCALE = 100,0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 1/29/2021	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

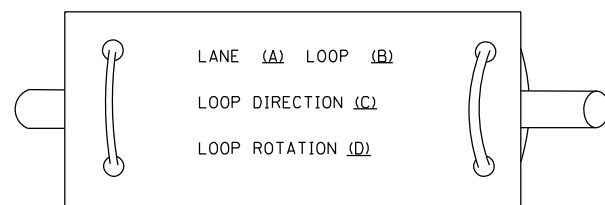
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	30
TC-22			CONTRACT NO. 62L59	
ILLINOIS FED. AID PROJECT				

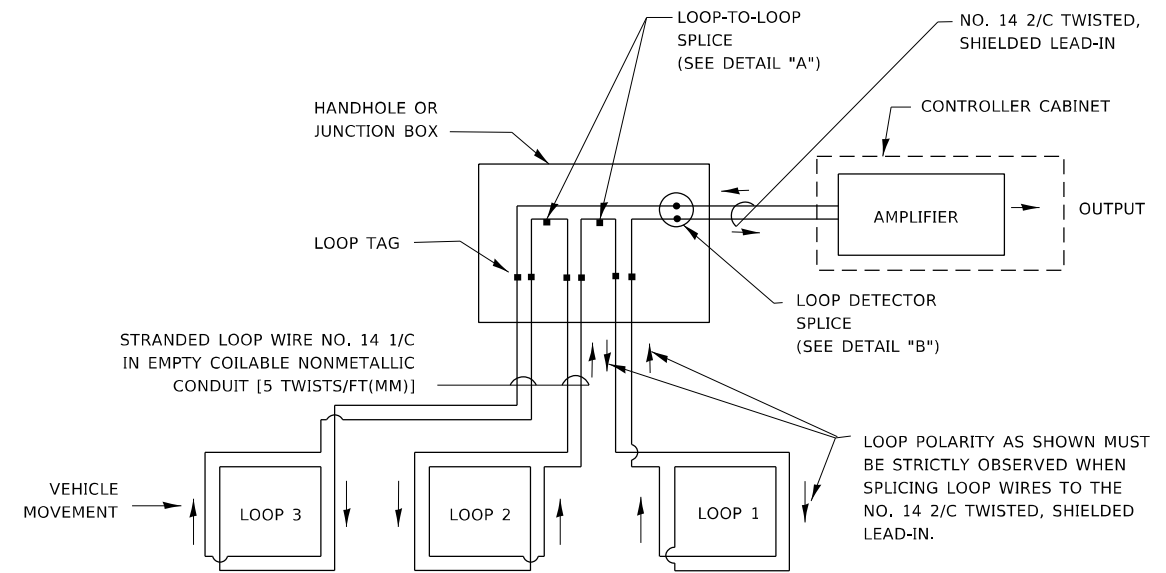
LOOP DETECTOR NOTES

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 DIVEHOLES 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

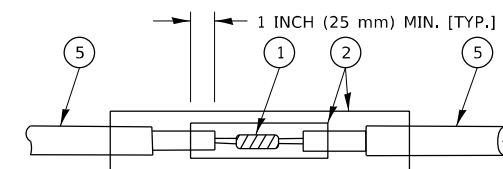


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

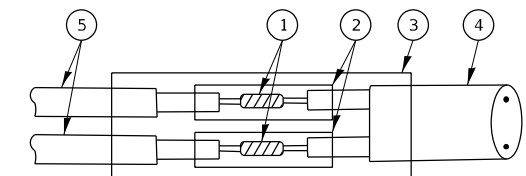


DETECTOR LOOP WIRING SCHEMATIC

- 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.

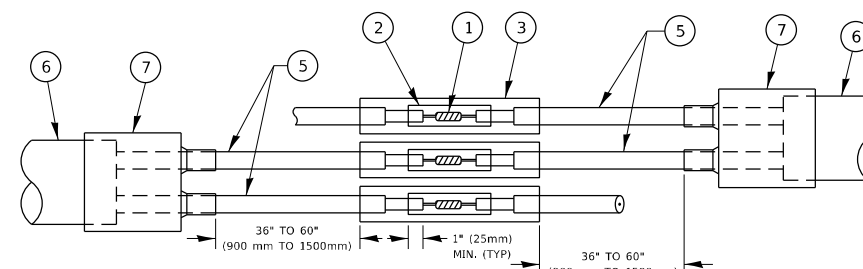


DETAIL "A"
LOOP-TO-LOOP SPLICE

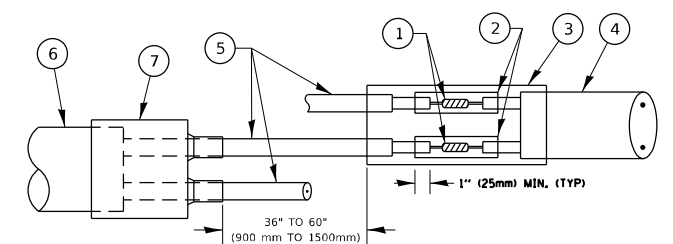


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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

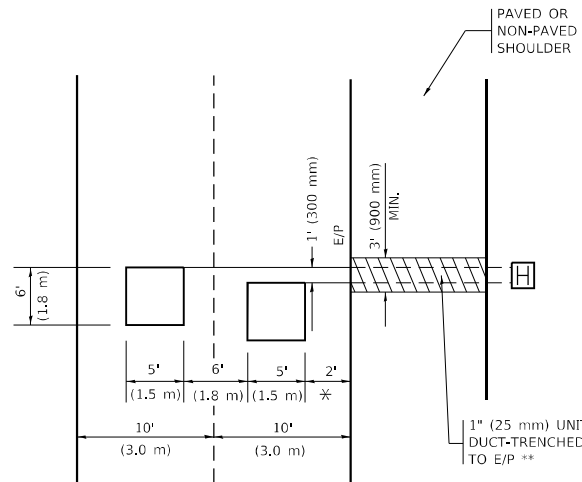
DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2660	2020-081-R5	COOK	32	31
TS-05		CONTRACT NO. 62L59		
ILLINOIS		FED. AID PROJECT		

LOOPS NEXT TO SHOULDERS

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

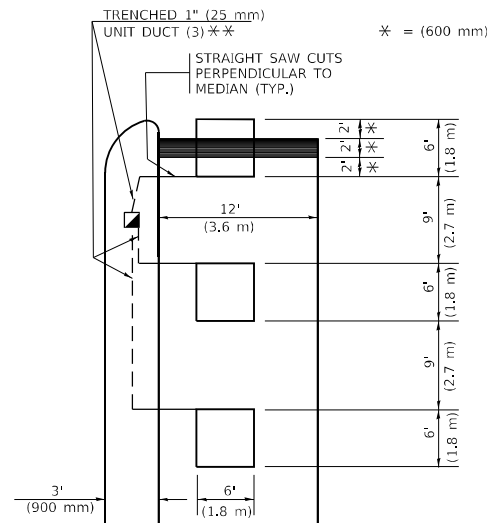


* = (600 mm)

** 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.

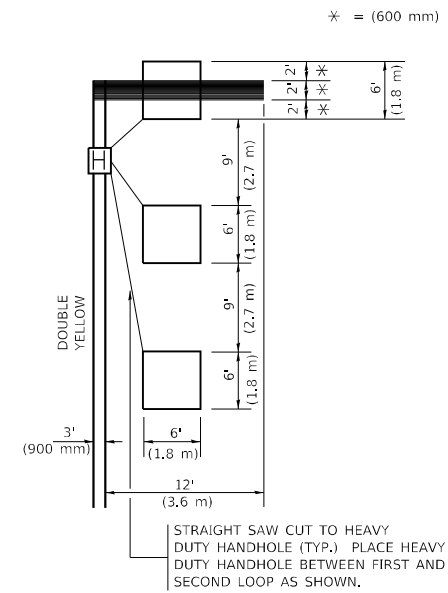


* = (600 mm)

** 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.

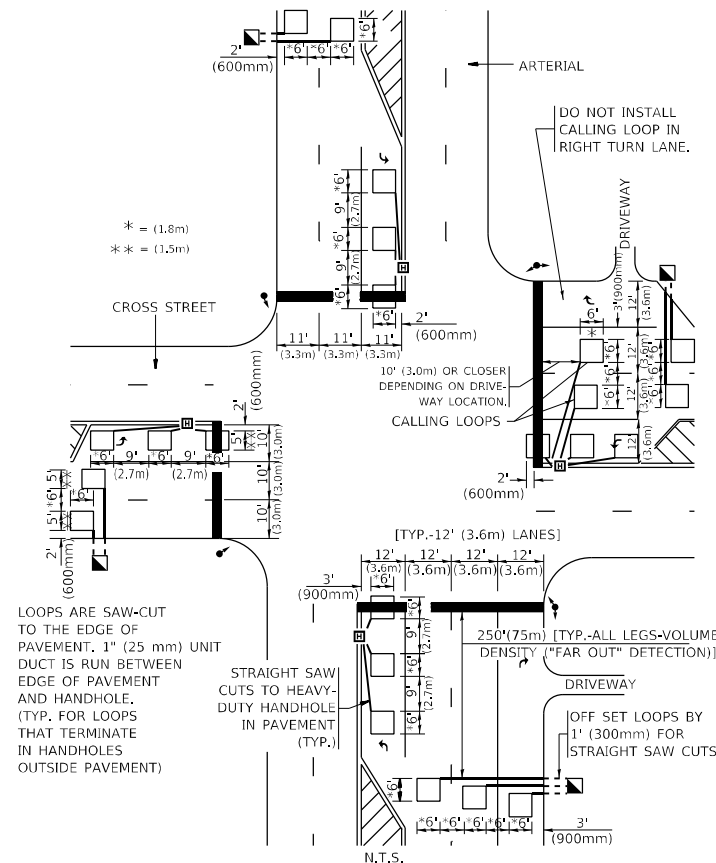
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE). USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

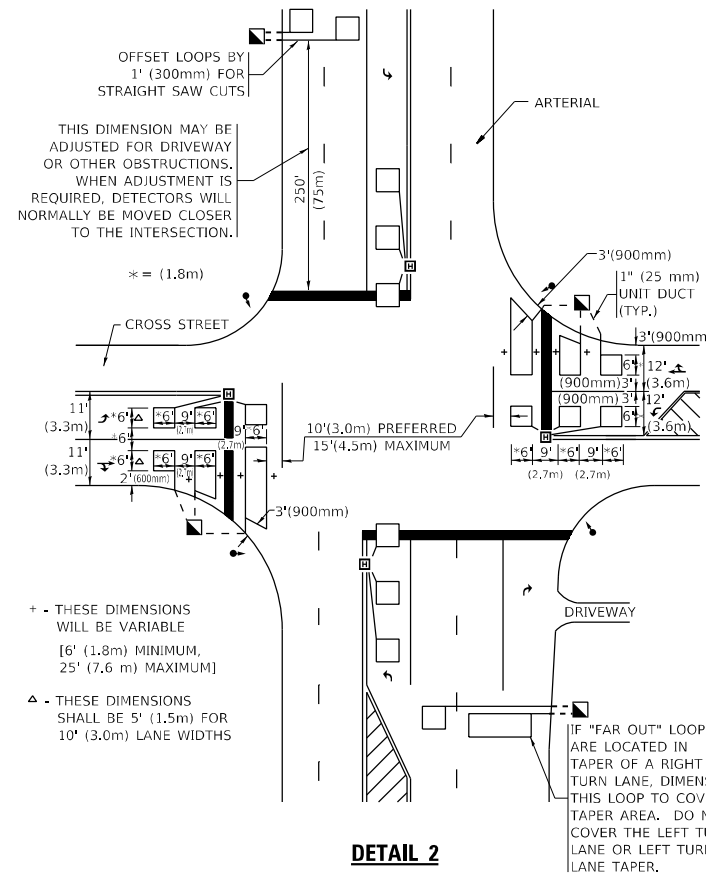
ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("FAR OUT" DETECTION)



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

DETAIL 1
N.T.S.

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



OFFSET LOOPS BY 1' (300mm) FOR STRAIGHT SAW CUTS

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

* = (1.8m)

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

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

DETAIL 2
N.T.S.

MODEL: Default
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 PROJECT: 2020-081-R5
 DATE: 1/29/2021

USER NAME = paraynoal	DESIGNED -	REVISED -
PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 1/29/2021	CHECKED - R.K.F.	REVISED -
	DATE -	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
DETAILS FOR ROADWAY RESURFACING		2660	2020-081-R5	COOK	32	32
SCALE: NONE		TS-07		CONTRACT NO. 62L59		
SHEET 1 OF 1 SHEETS	STA. TO STA.	ILLINOIS FED. AID PROJECT				