

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F. & I. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-RS-SR&SW	COOK	53	1
		ILLINOIS	CONTRACT NO. 62N81	

THE IMPROVEMENT IS LOCATED IN THE VILLAGES OF WILLOW SPRINGS, HODGKINS, LA GRANGE, AND THE CITY OF COUNTRYSIDE.

TRAFFIC DATA:
WILLOW SPRINGS ROAD 2018 ADT = 19,200
POSTED SPEED LIMIT = 35-40 MPH

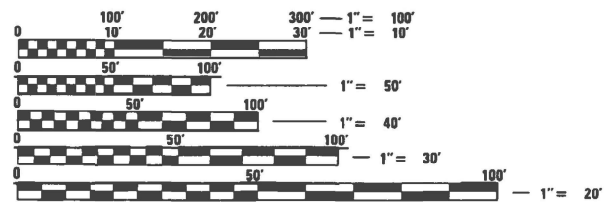
DESIGN DESIGNATION: MINOR ARTERIAL

OVERLAY BRIDGE OMISSIONS:

- BRIDGE OVER SAN. CANAL & DES PLAINES RIVER
STA. 19+72 TO STA. 35+16
- BRIDGE OVER TRI-STATE TOLLWAY I-294
STA. 121+61 TO STA. 125+45
- BRIDGE OVER STEVENSON I-55
STA. 129+13 TO STA. 131+24

OVERLAY INTERSECTION OMISSION:

- HISTORIC US-66 (JOLIET ROAD):
STA. 162+75 TO STA. 164+59



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

PROJECT ENGINEER: LUKASZ POCIECHA (847) 705-4255
PROJECT MANAGER: FAWAD AQUEEL

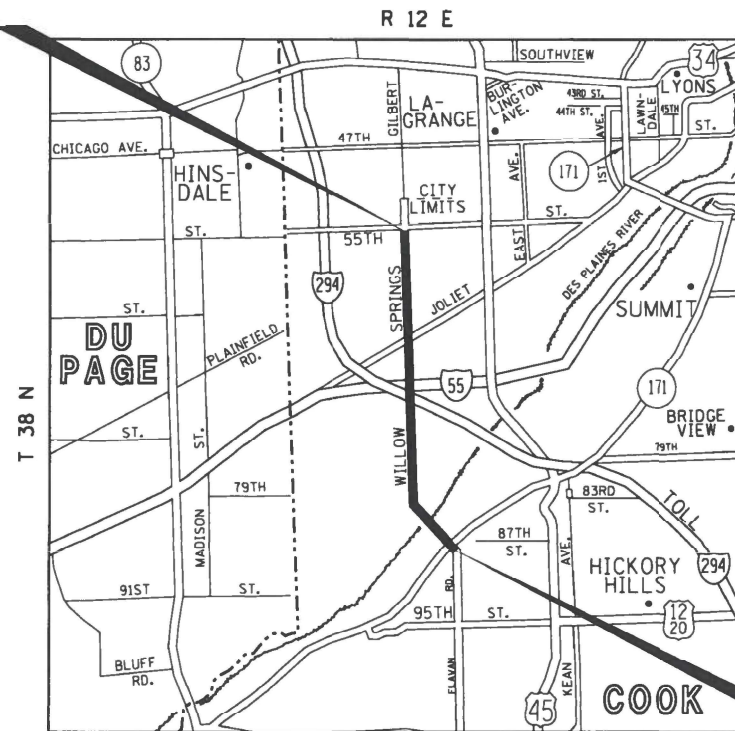
CONTRACT NO. 62N81

**PROPOSED
HIGHWAY PLANS**

F.A.U. ROUTE 2697: WILLOW SPRINGS RD.
FROM: IL 171 (ARCHER AVE.) TO N. OF 55TH ST.
SECTION: 2021-019-RS-SR&SW
PROJECT: STP-Q76C(202)
DESIGNED OVERLAY, ADA IMPROVEMENT,
AND RUMBLE STRIP
COOK COUNTY

C-91-154-21

PROJECT ENDS
STA. 236 + 10



LYONS AND PALOS TOWNSHIPS



PROJECT BEGINS
STA. STA. 14 + 97

GROSS LENGTH = 22,113 FT. = 4.19 MILES
NET LENGTH = 19,790 FT. = 3.75 MILES

D-91-131-21



LOCATION OF SECTION INDICATED THUS: —

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED JUNE 1 20 22
Jose Rios/Cas
REGIONAL ENGINEER

July 1, 2022 [Signature]
ENGINEER OF DESIGN AND ENVIRONMENT

July 1, 2022 [Signature]
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION

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OF THE STATE OF ILLINOIS

GENERAL NOTES (CONTINUED)

- 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. ALL MILLED SURFACES SHALL BE AT A UNIFORM CROSS SLOPE PER LANE AND FREE OF RIDGES BETWEEN PASSES. ANY DEVIATIONS SHALL BE CORRECTED AT NO COST TO THE DEPARTMENT.
- 29. THE CONTRACTOR MUST USE EXTREME CARE AND CAUTION WHEN MILLING AND PAVING THE PAVEMENT UNDER THE RAILROAD BRIDGE SO AS TO AVOID ACCIDENTLY HITTING THE BRIDGE WITH DUMP TRUCKS OR MILLING MACHINES. IT'S RECOMMENDED THAT MILLING UNDER THE RR STRUCTURE BE DONE USING A GRINDER MOUNTED ON A SKID-STEER/BOBCAT LOADER.
- 30. MILLING AND RESURFACING UNDER THE RAILROAD STRUCTURE MUST NOT CHANGE OR NEGATIVELY IMPACT THE MINIMUM VERTICAL CLEARANCE UNDER THE STRUCTURE.

- 31. PROPOSED NEW VERTICAL SIGN "14 FT 4 IN" SHALL BE INSTALLED ON BOTH SIDES OF RAILROAD STRUCTURE A MINIMUM OF ONE MONTH PRIOR TO HMA OVERLAY PAVING OF THE EXISTING PCC SECTION UNDER THE RAILROAD STRUCTURE.

- 32. AFTER THE APPLICATION OF HMA OVERLAY PAVING OF THE EXISTING PCC SECTION UNDER THE RAILROAD STRUCTURE, THE ACTUAL CLEARANCE VALUES SHALL BE MEASURED AND ENTERED INTO THE FORM "OPER 1306" AND SUBMITTED TO DOT.Roadinfo@Illinois.gov. ELECTRONIC COPY SHALL BE PROVIDED TO THE BUREAU OF TRAFFIC, TRAFFIC CONTROL UNIT AT EMAD.ALHUSSEINI@ILLINOIS.GOV.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WILLOW SPRINGS RD. (IL-171 / ARCHER AVE. TO N. OF 55TH ST.)
INDEX OF SHEETS, STATE STANDARDS & GENERAL NOTES**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	3
CONTRACT NO. 62N81				
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	0005	0005				
				80% FED 20% STATE	100% STATE				
20100110	TREE REMOVAL (6 TO 15 UNITS DIAMETER)	UNIT	37	37					
20100210	TREE REMOVAL (OVER 15 UNITS DIAMETER)	UNIT	35	35					
20101350	TREE PRUNING (OVER 10 INCH DIAMETER)	EACH	22	22					
20200100	EARTH EXCAVATION	CU YD	50	50					
21101605	TOPSOIL FURNISH AND PLACE, 2"	SO YD	823	823					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	15	15					
21400100	GRADING AND SHAPING DITCHES	FOOT	270	270					
25000210	SEEDING, CLASS 2A	ACRE	0.2	0.2					
25003210	INTERSEEDING, CLASS 2A	ACRE	1.7	1.7					
25003310	INTERSEEDING, CLASS 4	ACRE	0.4	0.4					
25100125	MULCH, METHOD 3	ACRE	3.8	3.8					
25100635	HEAVY DUTY EROSION CONTROL BLANKET	SO YD	823	823					
25200110	SODDING, SALT TOLERANT	SO YD	15	15					
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	62316	62316					
40600370	LONGITUDINAL JOINT SEALANT	FOOT	42310	42310					

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES URBAN	0005	0005				
				80% FED 20% STATE	100% STATE				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	277	277					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	1046	1046					
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SO YD	60	60					
40602985	HOT-MIX ASPHALT BINDER COURSE, IL-9.5, N70	TON	4530	4530					
40603200	POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-4.75, N50	TON	2260	2260					
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	7964	7964					
40605026	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, 9.5, MIX "F", N80	TON	417	417					
42001300	PROTECTIVE COAT	SO YD	305	305					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	1025	1025					
42400800	DETECTABLE WARNINGS	SO FT	320	320					

* = SPECIALTY ITEMS

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	0005 100% STATE					CODE NO	ITEM		UNIT	0005 80% FED 20% STATE	0005 100% STATE		
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1					* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	1477	1477				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1					* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	58338	58338				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	164048	164048					* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	7061	7061				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	68354	68354					* 78000500	THERMOPLASTIC PAVEMENT MARKING - LINE 8"	FOOT	223	223				
70300211	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS - PAINT	SO FT	1477	1477					* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	2915	2915				
70300221	TEMPORARY PAVEMENT MARKING - LINE 4" - PAINT	FOOT	58338	58338					* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	973	973				
70300241	TEMPORARY PAVEMENT MARKING - LINE 6" - PAINT	FOOT	7061	7061					* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	978	978				
70300251	TEMPORARY PAVEMENT MARKING - LINE 8" - PAINT	FOOT	223	223					78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	783	783				
70300261	TEMPORARY PAVEMENT MARKING - LINE 12" - PAINT	FOOT	2915	2915					78300202	PAVEMENT MARKING REMOVAL - WATER BLASTING	SO FT	29463	29463				
70300281	TEMPORARY PAVEMENT MARKING - LINE 24" - PAINT	FOOT	973	973					* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	3349	3349				
70306120	TEMPORARY PAVEMENT MARKING - LINE 4" - TYPE III TAPE	FOOT	41012	41012					K0026700	TREE CARE	EACH	11	11				
									K0029624	WEED CONTROL, TEASEL	GALLON	1	1				
									K1004595	PRUNING FOR SAFETY AND EQUIPMENT CLEARANCE	L SUM	1	1				
									* 72000100	SIGN PANEL - TYPE 1	SO FT	12	12				
										* = SPECIALTY ITEMS							

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	0005 100% STATE			
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1				
X0325222	WEED CONTROL, BASAL TREATMENT	GALLON	40	40				
X0326898	CENTER LINE - RUMBLE STRIP - 16"	FOOT	2294	2294				
X0327120	WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT	ACRE	3.6	3.6				
X1900002	INTERSEEDING, CLASS 4 (MODIFIED)	ACRE	1.8	1.8				
X2010350	TREE REMOVAL, ACRES (SPECIAL)	ACRE	3.2	3.2				
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	231	231				
X4060995	TEMPORARY RAMP, SPECIAL	SQ YD	154	154				
X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	SQ YD	1720	1720				
X4400501	COMBINATION CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	77	77				
X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	675	675				
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	37	37				
X6700407	ENGINEER'S FIELD OFFICE, TYPE A (D1)	CAL MO	12	12				

SUMMARY OF QUANTITIES			TOTAL QUANTITIES URBAN	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	0005 100% STATE			
* X7800815	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 4 INCH	FOOT	2736	2736				
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	898	898				
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	45		45			
Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	503	503				
Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUM	1	1				
Z0064800	SELECTIVE CLEARING	UNIT	3.6	3.6				
Ø Z0076600	TRAINEES	HOURS	500	500				
Ø Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500				

* = SPECIALTY ITEMS

0042

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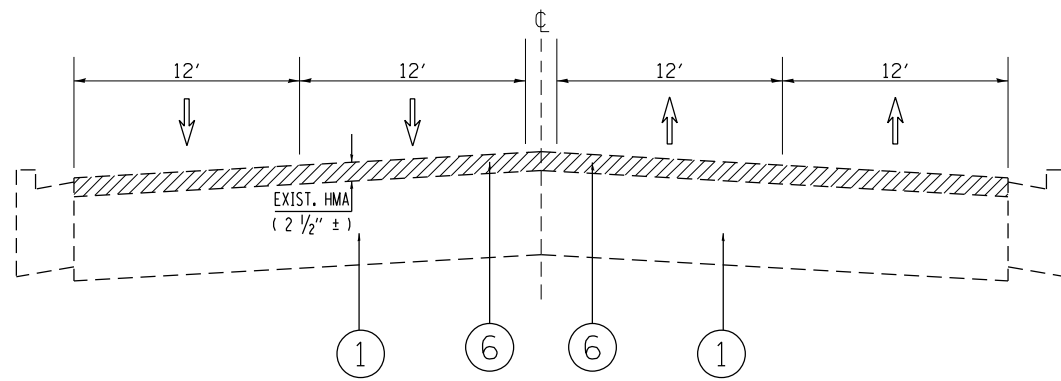
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**WILLOW SPRINGS ROAD (ARCHER AVENUE TO 55TH STREET)
SUMMARY OF QUANTITIES**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-RS-SR&SW	COOK	53	7
FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT			CONTRACT NO. 62N81	

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

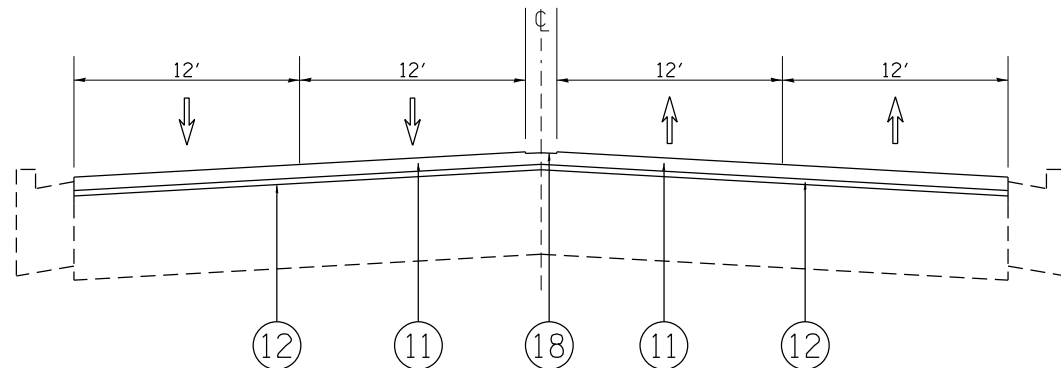
WILLOW SPRINGS ROAD



EXIST. TYPICAL SECTION

STA. 14+97 TO STA. 19+72

WILLOW SPRINGS ROAD



PROP. TYPICAL SECTION

STA. 14+97 TO STA. 19+72

LEGEND

- ① EXIST. P.C.C. PAVEMENT, ±10"
- ② EXIST. CURB AND GUTTER
- ③ EXIST. AGGREGATE SHOULDER
- ④ EXIST. WHITE EDGE STRIPING
- ⑤ PROP. HMA SURF REM 2 1/4
- ⑥ PROP. HMA SURF REM 2 1/2
- ⑦ PROP. HMA SURF REM 3 3/4
- ⑧ PROP. PCC SURF REM VAR DP
- ⑨ PROP. HMA SC IL-9.5 D N70, 1 1/2

LEGEND (CONTINUED...)

- ⑩ PROP. HMA SC IL-9.5 D N70, 1 3/4
- ⑪ PROP. P SC SMA 9.5 F N80, 1 3/4
- ⑫ PROP. P HMA BC IL-4.75 N50, 3/4
- ⑬ PROP. P HMA BC IL-4.75 N50, 1
- ⑭ PROP. HMA BC IL-9.5 N70, 2
- ⑮ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑯ PROP. GRADING AND SHAPING SHOULDERS
- ⑰ PROP. SHOULDER RUM STRIP 8
- ⑱ PROP. CENTERLN RUM STRIP 16

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES	OMP
<i>ROADWAY HMA RESURFACING - DESIGNED OVERLAY:</i>		
HMA SC IL-9.5 D N70, 1 3/4	4% AT 70 GYR.	OCP
HMA BC IL-9.5 N70, 2	4% AT 70 GYR.	OCP

<i>ROADWAY HMA RESURFACING AND HMA OVERLAY OF EXISTING PCC - STANDARD OVERLAY:</i>		
HMA SC IL-9.5 D N70, 1 1/2	4% AT 70 GYR.	OCP
P HMA BC IL-4.75 N50, 3/4 AND 1	3.5% AT 50 GYR.	OCP

<i>ROADWAY HMA RESURFACING - STANDARD OVERLAY</i>		
P SC SMA 9.5 F N80, 1 3/4	4% AT 70 GYR.	QC/QA
P HMA BC IL-4.75 N50, 3/4	3.5% AT 50 GYR.	OCP

<i>HOT-MIX ASPHALT PATCHING:</i>		
CLASS D PATCHES (HMA BINDER IL-19 mm), 10 and 14	4% AT 70 GYR.	QC/QA

<i>TEMPORARY RAMP, SPECIAL</i>		
HMA BC IL-9.5 N70 (VARIABLE DEPTH)	4% AT 70 GYR.	QC/QA

OMP Designation: Quality Control/Quality Assurance (QC/QA);
Quality Control for Performance (OCP); Pay for Performance (PFP)

NOTES:

- THE CONTRACTOR SHALL MILL THE ROADWAY FIRST, THEN DO PAVEMENT PATCHING PER BD-22 DETAIL.
- THE PROPOSED LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLY. HMA BINDER COURSE, IL-4.75, N50
- CLASS D PATCHES, OF TYPES II, III. AND IV, AND 10" THICK, TO BE APPLIED IN THIS ROADWAY SECTION.

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 RECLAIMED MATERIALS SPECIFICATIONS.

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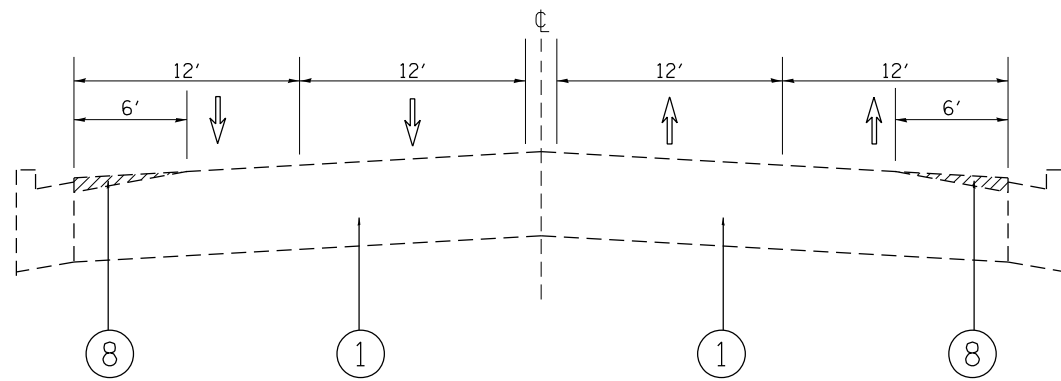
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLOW SPRINGS RD. (IL-171 /ARCHER AVE. TO N. OF 55TH ST.)
EXISTING AND PROPOSED TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	8
CONTRACT NO. 62N81				
ILLINOIS FED. AID PROJECT				

WILLOW SPRINGS ROAD



EXIST. TYPICAL SECTION

STA. 35+16 TO STA. 47+86

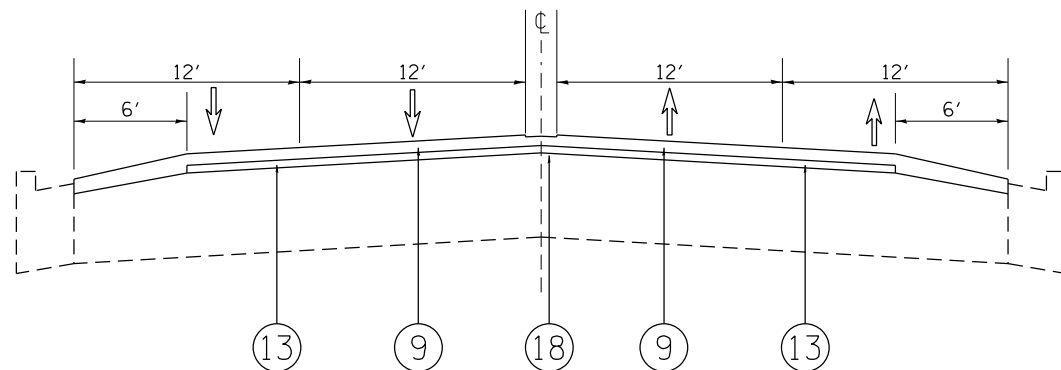
LEGEND

- ① EXIST. P.C.C. PAVEMENT, ±10"
- ② EXIST. CURB AND GUTTER
- ③ EXIST. AGGREGATE SHOULDER
- ④ EXIST. WHITE EDGE STRIPING
- ⑤ PROP. HMA SURF REM 2 1/4
- ⑥ PROP. HMA SURF REM 2 1/2
- ⑦ PROP. HMA SURF REM 3 3/4
- ⑧ PROP. PCC SURF REM VAR DP
- ⑨ PROP. HMA SC IL-9.5 D N70, 1 1/2

LEGEND (CONTINUED...)

- ⑩ PROP. HMA SC IL-9.5 D N70, 1 3/4
- ⑪ PROP. P SC SMA 9.5 F N80, 1 3/4
- ⑫ PROP. P HMA BC IL-4.75 N50, 3/4
- ⑬ PROP. P HMA BC IL-4.75 N50, 1
- ⑭ PROP. HMA BC IL-9.5 N70, 2
- ⑮ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑯ PROP. GRADING AND SHAPING SHOULDERS
- ⑰ PROP. SHOULDER RUM STRIP 8
- ⑱ PROP. CENTERLN RUM STRIP 16

WILLOW SPRINGS ROAD



PROP. TYPICAL SECTION

STA. 35+16 TO STA. 47+86

NOTES:

1. FOR EXISTING PCC ROADWAY SURFACE IN THIS SECTION, THE CONTRACTOR SHALL PATCH THE ROADWAY FIRST BEFORE OVERLAYING WITH HMA.
2. THE PROPOSED LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLY. HMA BINDER COURSE, IL-4.75, N50.
3. CLASS D PATCHES, OF TYPE III ONLY, AND 10" THICK, TO BE APPLIED IN THIS ROADWAY SECTION (BASED ON CONSTRUCTION SURVEY).

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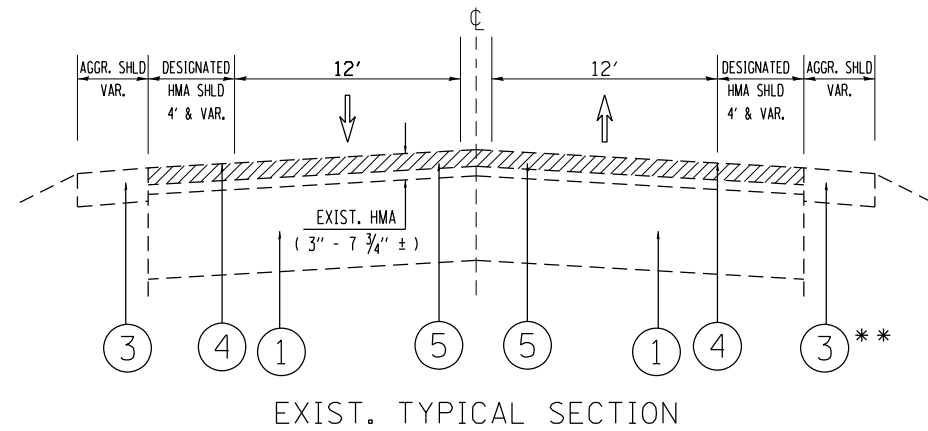
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLOW SPRINGS RD. (IL-171 /ARCHER AVE. TO N. OF 55TH ST.)
EXISTING AND PROPOSED TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	9
CONTRACT NO. 62N81				
ILLINOIS FED. AID PROJECT				

WILLOW SPRINGS ROAD



STA. 47+86 TO STA. 131+24 *

* BRIDGE OMISSIONS:

BRIDGE OVER TRI-STATE TOLLWAY I-294
 STA. 121+61 TO STA. 125+45

BRIDGE OVER STEVENSON I-55
 STA. 129+13 TO STA. 131+24

** SOME ROADWAY SECTIONS HAVE EXIST. CURB & GUTTER.
 SEE ROADWAY PLANS FOR EXACT LOCATIONS.

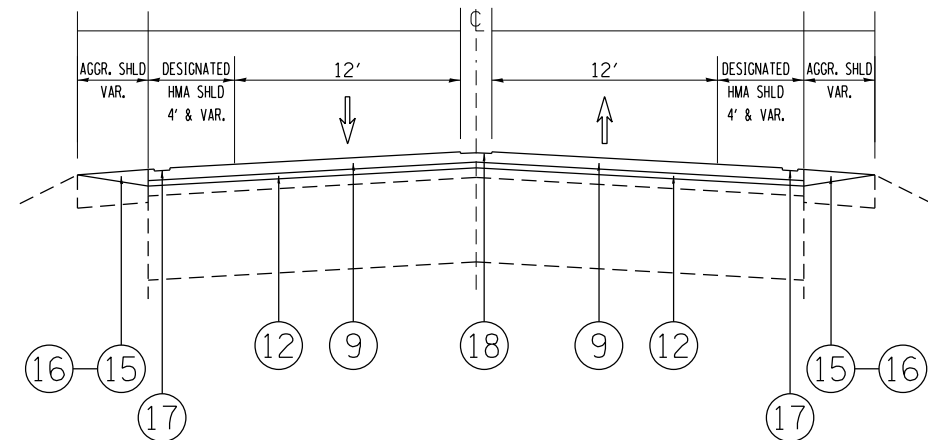
LEGEND

- ① EXIST. P.C.C. PAVEMENT, ±10"
- ② EXIST. CURB AND GUTTER
- ③ EXIST. AGGREGATE SHOULDER
- ④ EXIST. WHITE EDGE STRIPING
- ⑤ PROP. HMA SURF REM 2 1/4
- ⑥ PROP. HMA SURF REM 2 1/2
- ⑦ PROP. HMA SURF REM 3 3/4
- ⑧ PROP. PCC SURF REM VAR DP
- ⑨ PROP. HMA SC IL-9.5 D N70, 1 1/2

LEGEND (CONTINUED...)

- ⑩ PROP. HMA SC IL-9.5 D N70, 1 3/4
- ⑪ PROP. P SC SMA 9.5 F N80, 1 3/4
- ⑫ PROP. P HMA BC IL-4.75 N50, 3/4
- ⑬ PROP. P HMA BC IL-4.75 N50, 1
- ⑭ PROP. HMA BC IL-9.5 N70, 2
- ⑮ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑯ PROP. GRADING AND SHAPING SHOULDERS
- ⑰ PROP. SHOULDER RUM STRIP 8
- ⑱ PROP. CENTERLN RUM STRIP 16

WILLOW SPRINGS ROAD



PROP. TYPICAL SECTION
 STA. 47+86 TO STA. 131+24 *

NOTES:

1. THE CONTRACTOR SHALL MILL THE ROADWAY FIRST, THEN DO PAVEMENT PATCHING PER BD-22 DETAIL.
2. THE PROPOSED LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE POLY. HMA BINDER COURSE, IL-4.75, N50.
3. CLASS D PATCHES, OF TYPES II, III. AND IV, AND 10" THICK, IS TO BE APPLIED IN THIS ROADWAY SECTION WHERE 3" ± OF EXISTING HMA IS ENCOUNTERED (BASED ON TWO PAVEMENT CORE SAMPLES).

 WHERE 7 3/4" ± OF EXISTING HMA IS ENCOUNTERED, THEN CLASS D PATCHES, OF TYPES II, III. AND IV, AND 14" THICK, IS TO BE APPLIED.

EXACT LIMIT LOCATIONS BETWEEN THE TWO SETS OF CLASS D PATCHES FOR THIS ROADWAY SECTION IS TO BE DETERMINED ON THE FIELD DURING MILLING.

LOCATIONS ON THIS ROADWAY SECTION WHERE EXIST. HMA THICKNESS TRANSITIONS BETWEEN 3"± AND 7 3/4"±, BASED ON CORE SAMPLES:

CORE #4:	STA. 88+50	THICKNESS = 7 3/4"±
CORE #5:	STA. 107+00	THICKNESS = 3"±
CORE #6:	STA. 127+00	THICKNESS = 3"±
CORE #7:	STA. 143+50	THICKNESS = 7 3/4"±

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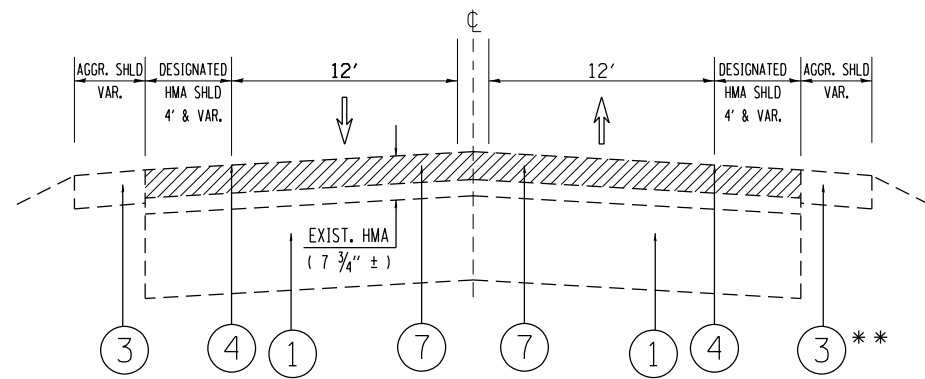
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

WILLOW SPRINGS RD. (IL-171 /ARCHER AVE. TO N. OF 55TH ST.)
 EXISTING AND PROPOSED TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	10
CONTRACT NO. 62N81				
ILLINOIS FED. AID PROJECT				

WILLOW SPRINGS ROAD



EXIST. TYPICAL SECTION

STA. 131+24 TO STA. 236+10 *

* INTERSECTION OMISSION:

HISTORIC US-66 (JOLIET ROAD):
STA. 163+28 TO STA. 164+59

** SOME ROADWAY SECTIONS HAVE EXIST. CURB & GUTTER.
SEE ROADWAY PLANS FOR EXACT LOCATIONS.

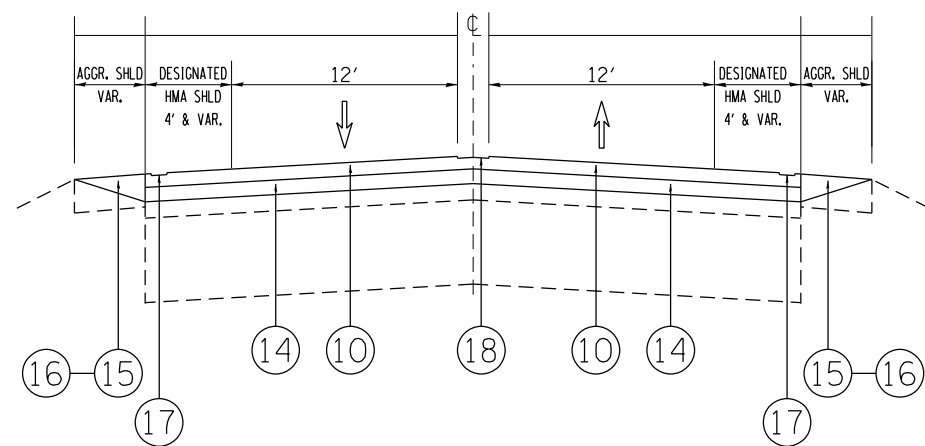
LEGEND

- ① EXIST. P.C.C. PAVEMENT, ±10"
- ② EXIST. CURB AND GUTTER
- ③ EXIST. AGGREGATE SHOULDER
- ④ EXIST. WHITE EDGE STRIPING
- ⑤ PROP. HMA SURF REM 2 1/4
- ⑥ PROP. HMA SURF REM 2 1/2
- ⑦ PROP. HMA SURF REM 3 3/4
- ⑧ PROP. PCC SURF REM VAR DP
- ⑨ PROP. HMA SC IL-9.5 D N70, 1 1/2

LEGEND (CONTINUED...)

- ⑩ PROP. HMA SC IL-9.5 D N70, 1 3/4
- ⑪ PROP. P SC SMA 9.5 F N80, 1 3/4
- ⑫ PROP. P HMA BC IL-4.75 N50, 3/4
- ⑬ PROP. P HMA BC IL-4.75 N50, 1
- ⑭ PROP. HMA BC IL-9.5 N70, 2
- ⑮ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑯ PROP. GRADING AND SHAPING SHOULDERS
- ⑰ PROP. SHOULDER RUM STRIP 8
- ⑱ PROP. CENTERLN RUM STRIP 16

WILLOW SPRINGS ROAD



PROP. TYPICAL SECTION

STA. 131+24 TO STA. 236+10 *

NOTES:

1. THE CONTRACTOR SHALL MILL THE ROADWAY FIRST, THEN DO PAVEMENT PATCHING PER BD-22 DETAIL.
2. THE PROPOSED LOGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE HMA BINDER COURSE, IL-9.5, N70.
3. CLASS D PATCHES, OF TYPES II, III, AND IV, AND 14" THICK, TO BE APPLIED IN THIS ROADWAY SECTION.

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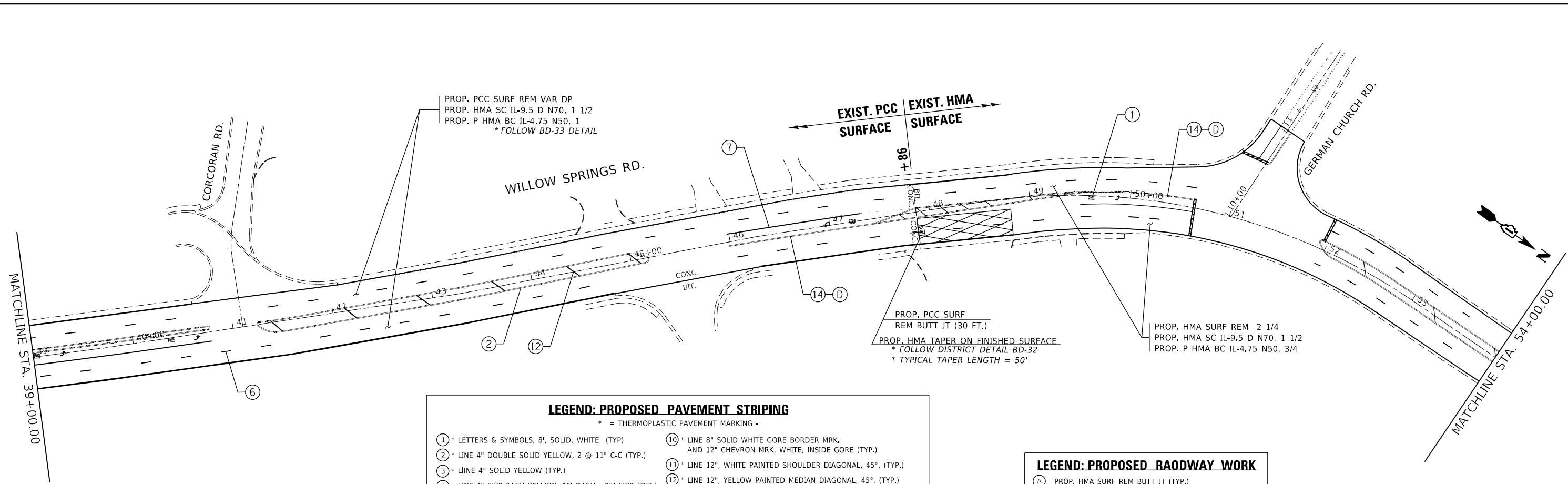
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

WILLOW SPRINGS RD. (IL-171 / ARCHER AVE. TO N. OF 55TH ST.)
EXISTING AND PROPOSED TYPICAL SECTIONS

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	11
CONTRACT NO. 62N81				
ILLINOIS FED. AID PROJECT				



LEGEND: PROPOSED PAVEMENT STRIPING

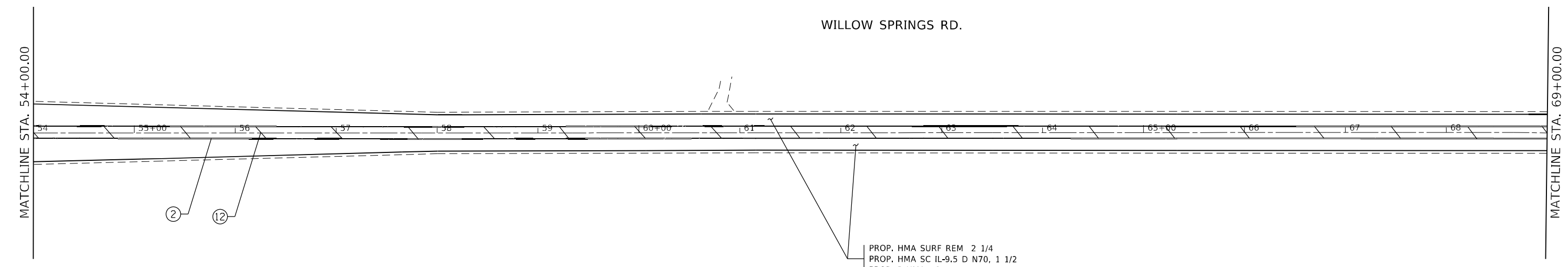
* = THERMOPLASTIC PAVEMENT MARKING -

- ① * LETTERS & SYMBOLS, 8", SOLID, WHITE (TYP.)
- ② * LINE 4" DOUBLE SOLID YELLOW, 2 @ 11" C-C (TYP.)
- ③ * LINE 4" SOLID YELLOW (TYP.)
- ④ * LINE 4" SKIP-DASH YELLOW, 10' DASH - 30' SKIP (TYP.)
- ⑤ * LINE 4" SOLID WHITE EDGE (TYP.)
- ⑥ * LINE 4" SKIP-DASH WHITE, 10' DASH - 30' SKIP (TYP.)
- ⑦ * LINE 6" SOLID WHITE TURN LANE (TYP.)
- ⑧ * LINE 6" SOLID WHITE CROSSWALK (TYP.)
- ⑨ * LINE 6" SKIP-DASH WHITE, 2' DASH - 6' SKIP (TYP.)
- ⑩ * LINE 8" SOLID WHITE GORE BORDER MRK. AND 12" CHEVRON MRK, WHITE, INSIDE GORE (TYP.)
- ⑪ * LINE 12", WHITE PAINTED SHOULDER DIAGONAL, 45°, (TYP.)
- ⑫ * LINE 12", YELLOW PAINTED MEDIAN DIAGONAL, 45°, (TYP.)
- ⑬ * LINE 24" SOLID WHITE STOP BAR (TYP.)
- ⑭ * LINE 4" HOT SPRAY DOUBLE SOLID YELLOW, 2 @ 11" C-C (TYP.)
- ⑮ * LINE 4" HOT SPRAY SOLID YELLOW LINE (TYP.)
- ⑯ * LINE 4" HOT SPRAY SKIP-DASH YELLOW, 10' DASH - 30' SKIP (TYP.)

INSTALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS PER DISTRICT ONE DETAILS TC-11 AND TC-13.

LEGEND: PROPOSED ROADWAY WORK

- (A) PROP. HMA SURF REM BUTT JT (TYP.)
- (B) PROP. TEMPORARY RAMP SPL (TYP.)
(APPLY WITHIN DESIGNED OVERLAY 3/4" MILLED MAINLINE LIMITS. APPLY ON SIDE ROADS AND DRIVEWAYS SEPARATED FROM MILLED MAINLINE BY DEPRESSED CURB)
- (C) PROP. SHOULDER RUM STRIP 8
- (D) PROP. CENTERLN RUM STRIP 16
- (E) PROP. ADA CURB RAMP IMPROVEMENT
(USE DESIGNED ADA DETAIL SHEET UNLESS SPECIFIED OTHERWISE)



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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN			
WILLOW SPRINGS ROAD (ARCHER AVENUE TO 55TH STREET)			
SCALE: 1" = 50'	SHEET	OF SHEETS	STA. TO STA.

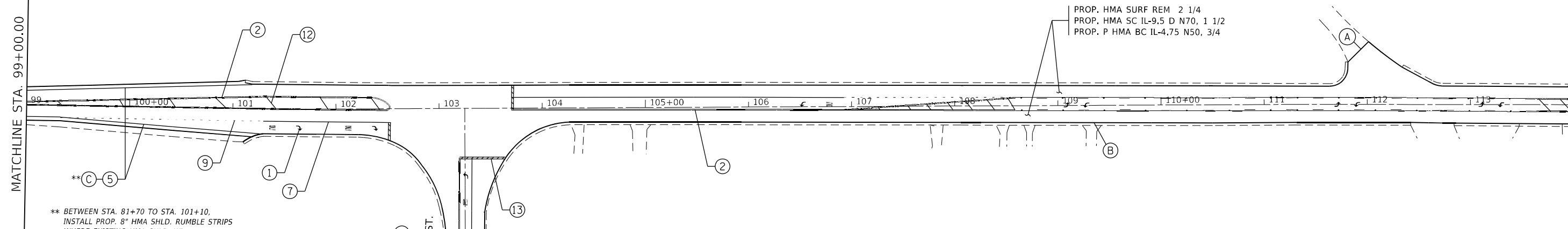
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			CONTRACT NO. 62N81	
ILLINOIS FED. AID PROJECT				

WILLOW SPRINGS RD.



MATCHLINE STA. 99+00.00

MATCHLINE STA. 114+00.00



** BETWEEN STA. 81+70 TO STA. 101+10,
INSTALL PROP. 8" HMA SHLD. RUMBLE STRIPS
WHERE EXISTING HMA SHLD. WIDTH
CAN ACCOMMODATE THE RUMBLE STRIPS.
HMA SHLD. WIDTH TO BE FIELD-VERIFIED.

LEGEND: PROPOSED PAVEMENT STRIPING

* = THERMOPLASTIC PAVEMENT MARKING -

- | | |
|--|---|
| ① * LETTERS & SYMBOLS, 8", SOLID, WHITE (TYP.) | ⑩ * LINE 8" SOLID WHITE GORE BORDER MRK. AND 12" CHEVRON MRK, WHITE, INSIDE GORE (TYP.) |
| ② * LINE 4" DOUBLE SOLID YELLOW, 2 @ 11" C-C (TYP.) | ⑪ * LINE 12", WHITE PAINTED SHOULDER DIAGONAL, 45°, (TYP.) |
| ③ * LINE 4" SOLID YELLOW (TYP.) | ⑫ * LINE 12", YELLOW PAINTED MEDIAN DIAGONAL, 45°, (TYP.) |
| ④ * LINE 4" SKIP-DASH YELLOW, 10' DASH - 30' SKIP (TYP.) | ⑬ * LINE 24" SOLID WHITE STOP BAR (TYP.) |
| ⑤ * LINE 4" SOLID WHITE EDGE (TYP.) | ⑭ * LINE 4" HOT SPRAY DOUBLE SOLID YELLOW, 2 @ 11" C-C (TYP.) |
| ⑥ * LINE 4" SKIP-DASH WHITE, 10' DASH - 30' SKIP (TYP.) | ⑮ * LINE 4" HOT SPRAY SOLID YELLOW LINE (TYP.) |
| ⑦ * LINE 6" SOLID WHITE TURN LANE (TYP.) | ⑯ * LINE 4" HOT SPRAY SKIP-DASH YELLOW, 10' DASH - 30' SKIP (TYP.) |
| ⑧ * LINE 6" SOLID WHITE CROSSWALK (TYP.) | |
| ⑨ * LINE 6" SKIP-DASH WHITE, 2' DASH - 6' SKIP (TYP.) | |

INSTALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS PER DISTRICT ONE DETAILS TC-11 AND TC-13.

LEGEND: PROPOSED ROADWAY WORK

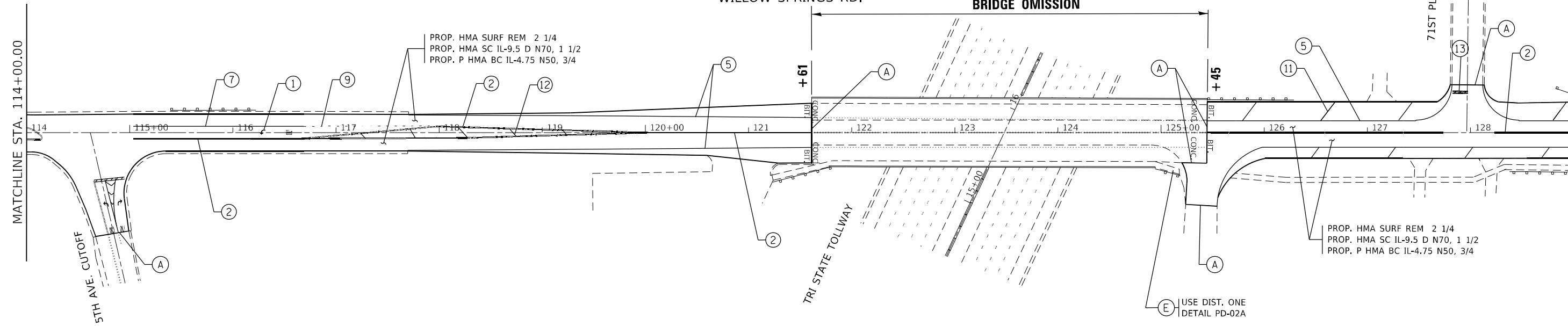
- Ⓐ PROP. HMA SURF REM BUTT JT (TYP.)
- Ⓑ PROP. TEMPORARY RAMP SPL (TYP.)
(APPLY WITHIN DESIGNED OVERLAY 3 3/4" MILLED MAINLINE LIMITS. APPLY ON SIDE ROADS AND DRIVEWAYS SEPARATED FROM MILLED MAINLINE BY DEPRESSED CURB)
- Ⓒ PROP. SHOULDER RUM STRIP 8
- Ⓓ PROP. CENTERLN RUM STRIP 16
- Ⓔ PROP. ADA CURB RAMP IMPROVEMENT
(USE DESIGNED ADA DETAIL SHEET UNLESS SPECIFIED OTHERWISE)

WILLOW SPRINGS RD.

BRIDGE OMISSION

MATCHLINE STA. 114+00.00

MATCHLINE STA. 129+00.00



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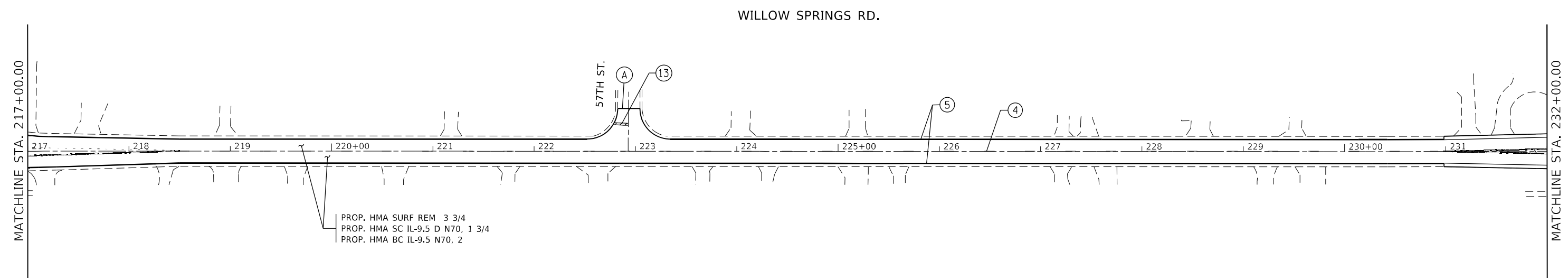
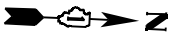
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY PLAN
WILLOW SPRINGS ROAD (ARCHER AVENUE TO 55TH STREET)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	15
CONTRACT NO. 62N81				
ILLINOIS FED. AID PROJECT				



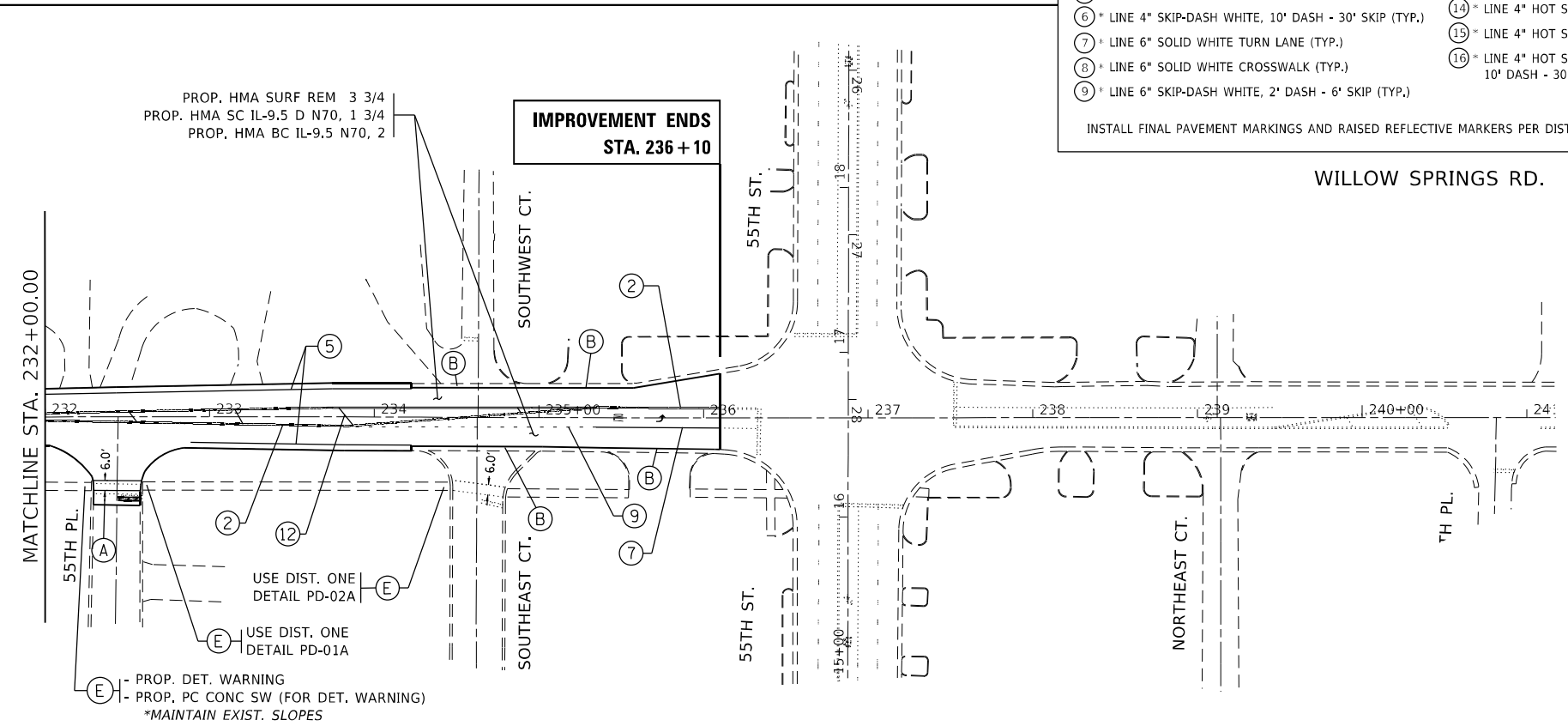
LEGEND: PROPOSED PAVEMENT STRIPING
 * = THERMOPLASTIC PAVEMENT MARKING -

① * LETTERS & SYMBOLS, 8", SOLID, WHITE (TYP.)	⑩ * LINE 8" SOLID WHITE GORE BORDER MRK. AND 12" CHEVRON MRK, WHITE, INSIDE GORE (TYP.)
② * LINE 4" DOUBLE SOLID YELLOW, 2 @ 11" C-C (TYP.)	⑪ * LINE 12", WHITE PAINTED SHOULDER DIAGONAL, 45°, (TYP.)
③ * LINE 4" SOLID YELLOW (TYP.)	⑫ * LINE 12", YELLOW PAINTED MEDIAN DIAGONAL, 45°, (TYP.)
④ * LINE 4" SKIP-DASH YELLOW, 10' DASH - 30' SKIP (TYP.)	⑬ * LINE 24" SOLID WHITE STOP BAR (TYP.)
⑤ * LINE 4" SOLID WHITE EDGE (TYP.)	⑭ * LINE 4" HOT SPRAY DOUBLE SOLID YELLOW, 2 @ 11" C-C (TYP.)
⑥ * LINE 4" SKIP-DASH WHITE, 10' DASH - 30' SKIP (TYP.)	⑮ * LINE 4" HOT SPRAY SOLID YELLOW LINE (TYP.)
⑦ * LINE 6" SOLID WHITE TURN LANE (TYP.)	⑯ * LINE 4" HOT SPRAY SKIP-DASH YELLOW, 10' DASH - 30' SKIP (TYP.)
⑧ * LINE 6" SOLID WHITE CROSSWALK (TYP.)	
⑨ * LINE 6" SKIP-DASH WHITE, 2' DASH - 6' SKIP (TYP.)	

INSTALL FINAL PAVEMENT MARKINGS AND RAISED REFLECTIVE MARKERS PER DISTRICT ONE DETAILS TC-11 AND TC-13.

LEGEND: PROPOSED ROADWAY WORK

Ⓐ	PROP. HMA SURF REM BUTT JT (TYP.)
Ⓑ	PROP. TEMPORARY RAMP SPL (TYP.) <small>(APPLY WITHIN DESIGNED OVERLAY 3 3/4" MILLED MAINLINE LIMITS. APPLY ON SIDE ROADS AND DRIVEWAYS SEPARATED FROM MILLED MAINLINE BY DEPRESSED CURB)</small>
Ⓒ	PROP. SHOULDER RUM STRIP 8
Ⓓ	PROP. CENTERLN RUM STRIP 16
Ⓔ	PROP. ADA CURB RAMP IMPROVEMENT <small>(USE DESIGNED ADA DETAIL SHEET UNLESS SPECIFIED OTHERWISE)</small>



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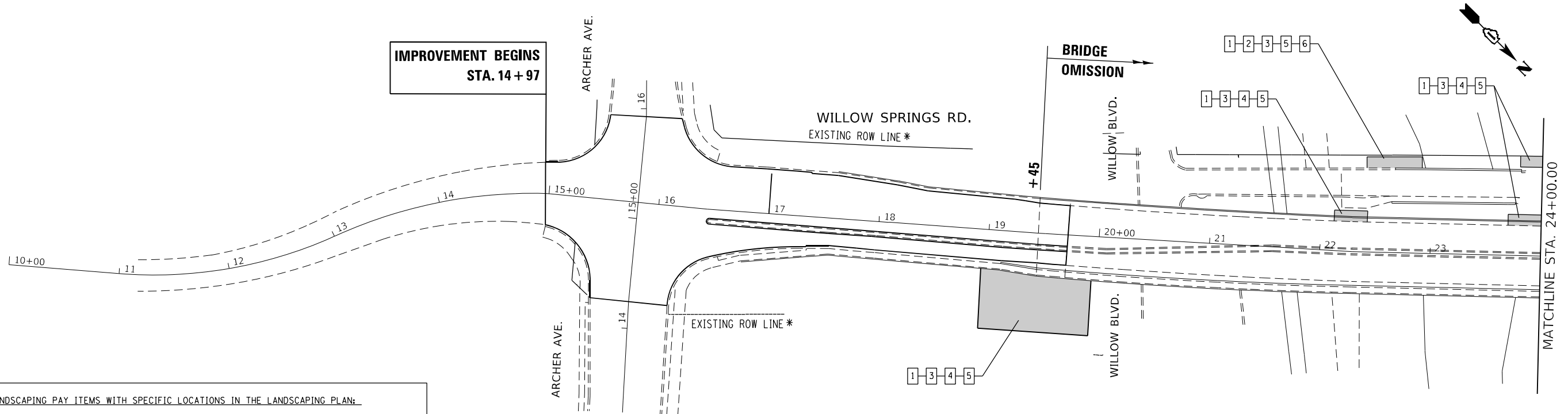
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

ROADWAY PLAN
WILLOW SPRINGS ROAD (ARCHER AVENUE TO 55TH STREET)

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	19
CONTRACT NO. 62N81				
ILLINOIS FED. AID PROJECT				



LANDSCAPING PAY ITEMS WITH SPECIFIC LOCATIONS IN THE LANDSCAPING PLAN:

■ - AREA PROPOSED FOR LANDSCAPING

1 - WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT	8 - SEEDING, CLASS 2A
2 - SELECTIVE CLEARING	9 - HEAVY DUTY EROSION CONTROL BLANKET
3 - TREE REMOVAL, ACRE (SPECIAL)	10 - INTERSEEDING, CLASS 4
4 - INTERSEEDING, CLASS 2A	11 - TC - TREE CARE
5 - MULCH, METHOD 3	12 - X - TREE REMOVAL (6 TO 15 UNITS DIAMETER)
6 - INTERSEEDING, CLASS 4 (MODIFIED)	13 - X - TREE REMOVAL (OVER 15 UNITS DIAMETER)
7 - TOPSOIL FURNISH AND PLACE, 2"	14 - TP - TREE PRUNING (OVER 10 INCH DIAMETER)

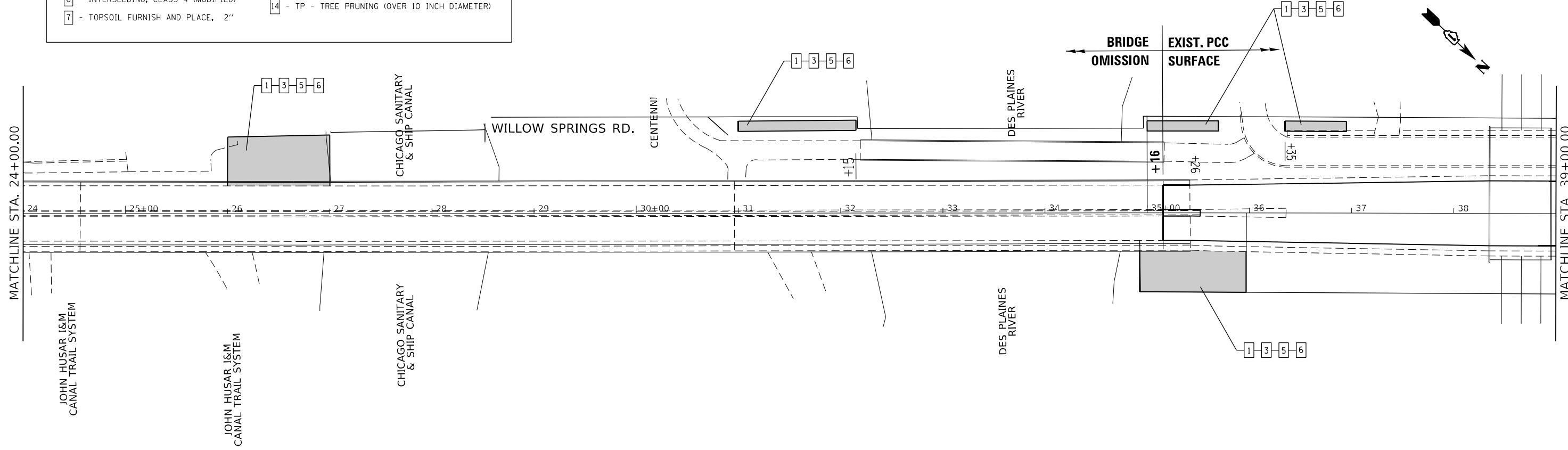
LANDSCAPING PAY ITEMS WITH LOCATIONS TO DETERMINE IN FIELD OR COORDINATE WITH ROADSIDE DEVELOPMENT UNIT

- WEED CONTROL, BASAL TREATMENT
- WEED CONTROL, TEASEL

* WHERE CURB AND GUTTER IS ENCOUNTERED, LANDSCAPING WILL BE FROM BACK OF CURB GOING OUTWARDS.

* GENERAL AREA IS SHOWN. SKIP INTERMITTENT ENTRANCES WITHIN SHOWN SHADED AREA.

* EXISTING ROW LINES SHOWN ARE BASED ON CAD REFERENCES BASED ON TAX MAPS, AND NOT ON OFFICIAL PLAT OF HIGHWAYS. LOCATIONS AND OFFSETS OF ROW LINES ARE APPROXIMATE ONLY AND SHOULD BE FIELD VERIFIED TO THE LEVEL OF CRITICALITY PROPORTIONAL TO THE SPECIFIC WORK INVOLVED.



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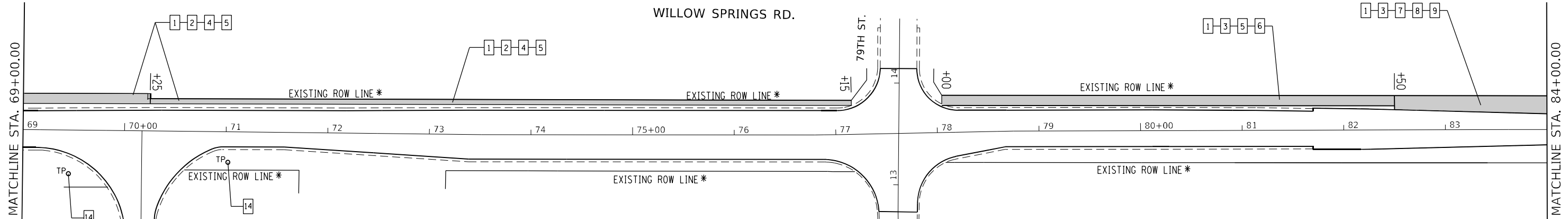
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
WILLOW SPRINGS ROAD (ARCHER AVENUE TO 55TH STREET)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	21
CONTRACT NO. 62N81				
ILLINOIS FED. AID PROJECT				



LANDSCAPING PAY ITEMS WITH SPECIFIC LOCATIONS IN THE LANDSCAPING PLAN:

[Shaded Box] - AREA PROPOSED FOR LANDSCAPING

[1] - WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT	[8] - SEEDING, CLASS 2A
[2] - SELECTIVE CLEARING	[9] - HEAVY DUTY EROSION CONTROL BLANKET
[3] - TREE REMOVAL, ACRE (SPECIAL)	[10] - INTERSEEDING, CLASS 4
[4] - INTERSEEDING, CLASS 2A	[11] - TC - TREE CARE
[5] - MULCH, METHOD 3	[12] - X - TREE REMOVAL (6 TO 15 UNITS DIAMETER)
[6] - INTERSEEDING, CLASS 4 (MODIFIED)	[13] - X - TREE REMOVAL (OVER 15 UNITS DIAMETER)
[7] - TOPSOIL FURNISH AND PLACE, 2"	[14] - TP - TREE PRUNING (OVER 10 INCH DIAMETER)

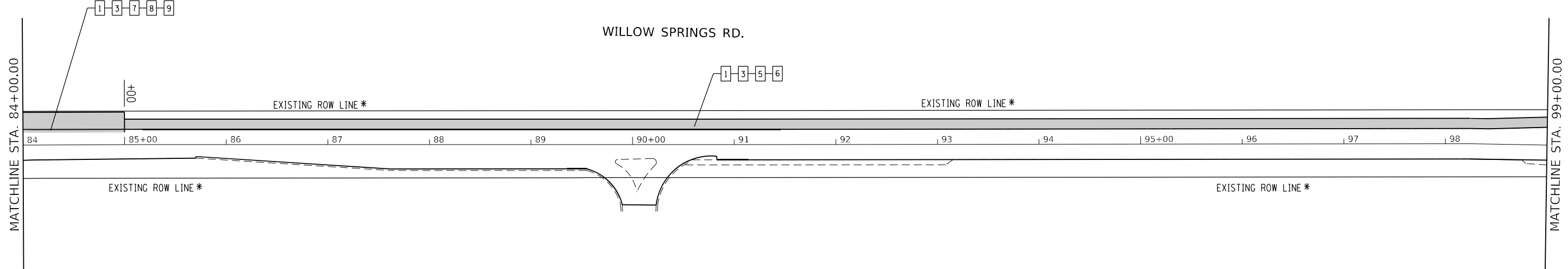
LANDSCAPING PAY ITEMS WITH LOCATIONS TO DETERMINE IN FIELD OR COORDINATE WITH ROADSIDE DEVELOPMENT UNIT

- WEED CONTROL, BASAL TREATMENT
- WEED CONTROL, TEASEL

* EXISTING ROW LINES SHOWN ARE BASED ON CAD REFERENCES BASED ON TAX MAPS, AND NOT ON OFFICIAL PLAT OF HIGHWAYS. LOCATIONS AND OFFSETS OF ROW LINES ARE APPROXIMATE ONLY AND SHOULD BE FIELD VERIFIED TO THE LEVEL OF CRITICALITY PROPORTIONAL TO THE SPECIFIC WORK INVOLVED.

• WHERE CURB AND GUTTER IS ENCOUNTERED, LANDSCAPING WILL BE FROM BACK OF CURB GOING OUTWARDS.

• GENERAL AREA IS SHOWN. SKIP INTERMITTENT ENTRANCES WITHIN SHOWN SHADED AREA.



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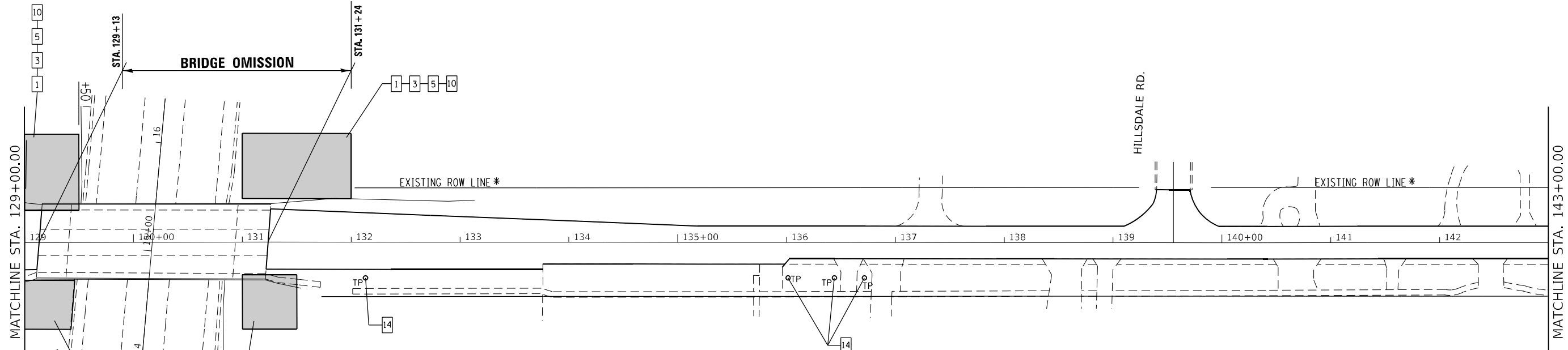
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
WILLOW SPRINGS ROAD (ARCHER AVENUE TO 55TH STREET)**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	23
			CONTRACT NO. 62N81	
		ILLINOIS FED. AID PROJECT		

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



• WHERE CURB AND GUTTER IS ENCOUNTERED, LANDSCAPING WILL BE FROM BACK OF CURB GOING OUTWARDS.
 • GENERAL AREA IS SHOWN. SKIP INTERMITTENT ENTRANCES WITHIN SHOWN SHADED AREA.

LANDSCAPING PAY ITEMS WITH SPECIFIC LOCATIONS IN THE LANDSCAPING PLAN:

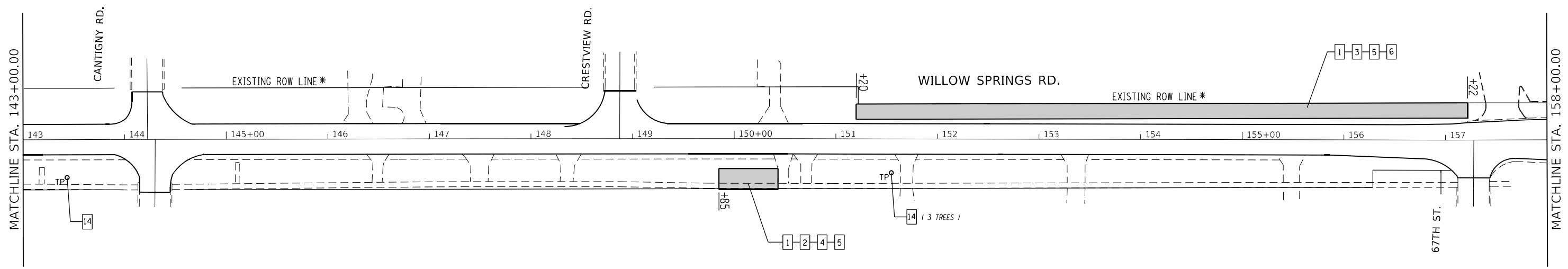
[Shaded Box] - AREA PROPOSED FOR LANDSCAPING

1 - WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT	8 - SEEDING, CLASS 2A
2 - SELECTIVE CLEARING	9 - HEAVY DUTY EROSION CONTROL BLANKET
3 - TREE REMOVAL, ACRE (SPECIAL)	10 - INTERSEEDING, CLASS 4
4 - INTERSEEDING, CLASS 2A	11 - TC - TREE CARE
5 - MULCH, METHOD 3	12 - X - TREE REMOVAL (6 TO 15 UNITS DIAMETER)
6 - INTERSEEDING, CLASS 4 (MODIFIED)	13 - X - TREE REMOVAL (OVER 15 UNITS DIAMETER)
7 - TOPSOIL FURNISH AND PLACE, 2"	14 - TP - TREE PRUNING (OVER 10 INCH DIAMETER)

LANDSCAPING PAY ITEMS WITH LOCATIONS TO DETERMINE IN FIELD OR COORDINATE WITH ROADSIDE DEVELOPMENT UNIT

- WEED CONTROL, BASAL TREATMENT
 - WEED CONTROL, TEASEL

* EXISTING ROW LINES SHOWN ARE BASED ON CAD REFERENCES BASED ON TAX MAPS, AND NOT ON OFFICIAL PLAT OF HIGHWAYS. LOCATIONS AND OFFSETS OF ROW LINES ARE APPROXIMATE ONLY AND SHOULD BE FIELD VERIFIED TO THE LEVEL OF CRITICALITY PROPORTIONAL TO THE SPECIFIC WORK INVOLVED.



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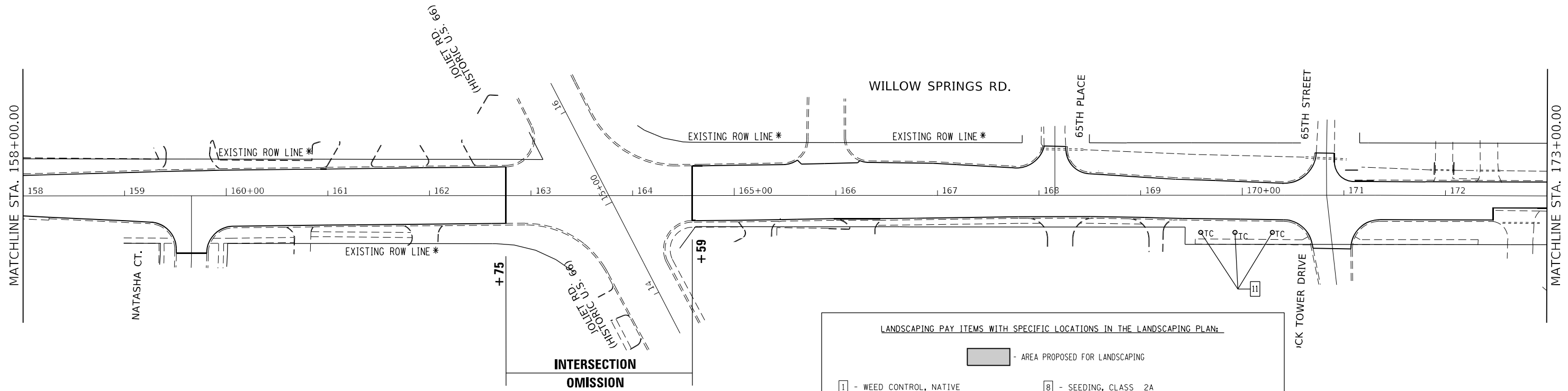
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	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**LANDSCAPING PLAN
WILLOW SPRINGS ROAD (ARCHER AVENUE TO 55TH STREET)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	25
CONTRACT NO. 62N81				
ILLINOIS FED. AID PROJECT				



* EXISTING ROW LINES SHOWN ARE BASED ON CAD REFERENCES BASED ON TAX MAPS, AND NOT ON OFFICIAL PLAT OF HIGHWAYS. LOCATIONS AND OFFSETS OF ROW LINES ARE APPROXIMATE ONLY AND SHOULD BE FIELD VERIFIED TO THE LEVEL OF CRITICALITY PROPORTIONAL TO THE SPECIFIC WORK INVOLVED.

LANDSCAPING PAY ITEMS WITH LOCATIONS TO DETERMINE IN FIELD OR COORDINATE WITH ROADSIDE DEVELOPMENT UNIT

- WEED CONTROL, BASAL TREATMENT
- WEED CONTROL, TEASEL

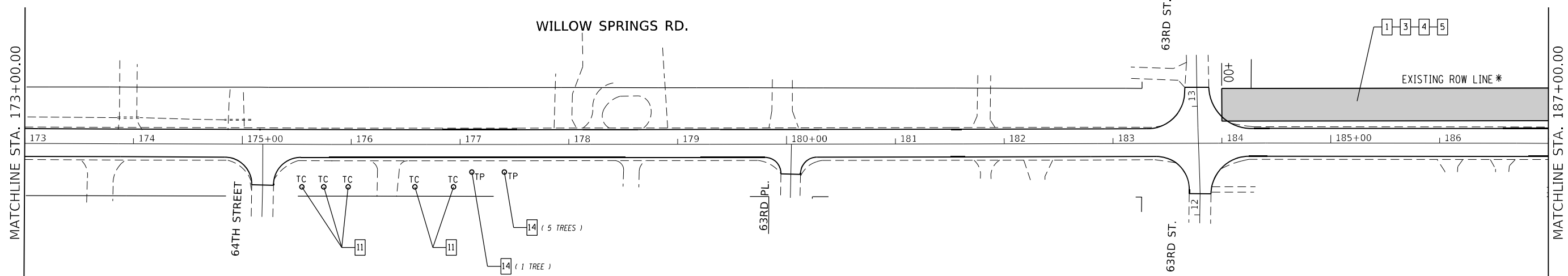
LANDSCAPING PAY ITEMS WITH SPECIFIC LOCATIONS IN THE LANDSCAPING PLAN:

■ - AREA PROPOSED FOR LANDSCAPING

1 - WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT	8 - SEEDING, CLASS 2A
2 - SELECTIVE CLEARING	9 - HEAVY DUTY EROSION CONTROL BLANKET
3 - TREE REMOVAL, ACRE (SPECIAL)	10 - INTERSEEDING, CLASS 4
4 - INTERSEEDING, CLASS 2A	11 - TC - TREE CARE
5 - MULCH, METHOD 3	12 - X - TREE REMOVAL (6 TO 15 UNITS DIAMETER)
6 - INTERSEEDING, CLASS 4 (MODIFIED)	13 - X - TREE REMOVAL (OVER 15 UNITS DIAMETER)
7 - TOPSOIL FURNISH AND PLACE, 2"	14 - TP - TREE PRUNING (OVER 10 INCH DIAMETER)

• WHERE CURB AND GUTTER IS ENCOUNTERED, LANDSCAPING WILL BE FROM BACK OF CURB GOING OUTWARDS.

• GENERAL AREA IS SHOWN. SKIP INTERMITTENT ENTRANCES WITHIN SHOWN SHADED AREA.



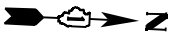
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	DATE -	REVISED -

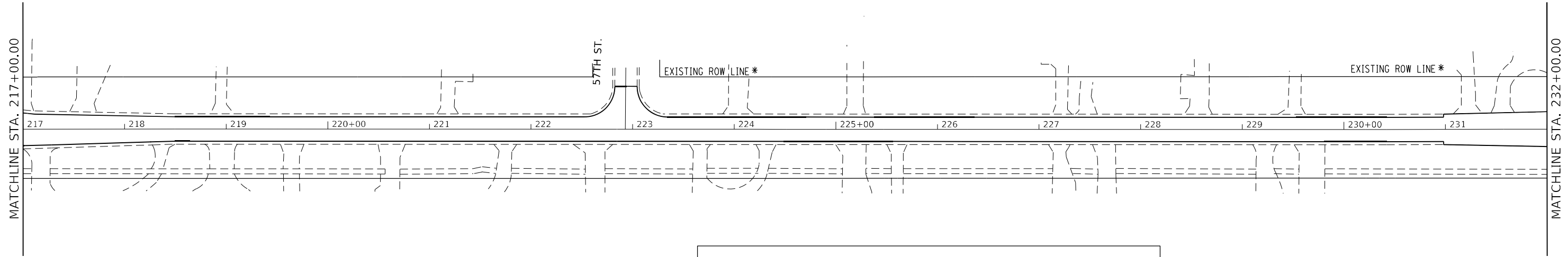
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

LANDSCAPING PLAN
WILLOW SPRINGS ROAD (ARCHER AVENUE TO 55TH STREET)
 SCALE: 1"= 50' SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	26
CONTRACT NO. 62N81				
ILLINOIS FED. AID PROJECT				



WILLOW SPRINGS RD.



• WHERE CURB AND CUTTER IS ENCOUNTERED, LANDSCAPING WILL BE FROM BACK OF CURB GOING OUTWARDS. .
 • GENERAL AREA IS SHOWN. SKIP INTERMITTENT ENTRANCES WITHIN SHOWN SHADED AREA.

* EXISTING ROW LINES SHOWN ARE BASED ON CAD REFERENCES BASED ON TAX MAPS, AND NOT ON OFFICIAL PLAT OF HIGHWAYS. LOCATIONS AND OFFSETS OF ROW LINES ARE APPROXIMATE ONLY AND SHOULD BE FIELD VERIFIED TO THE LEVEL OF CRITICALITY PROPORTIONAL TO THE SPECIFIC WORK INVOLVED.

LANDSCAPING PAY ITEMS WITH SPECIFIC LOCATIONS IN THE LANDSCAPING PLAN:

[Shaded Box] - AREA PROPOSED FOR LANDSCAPING

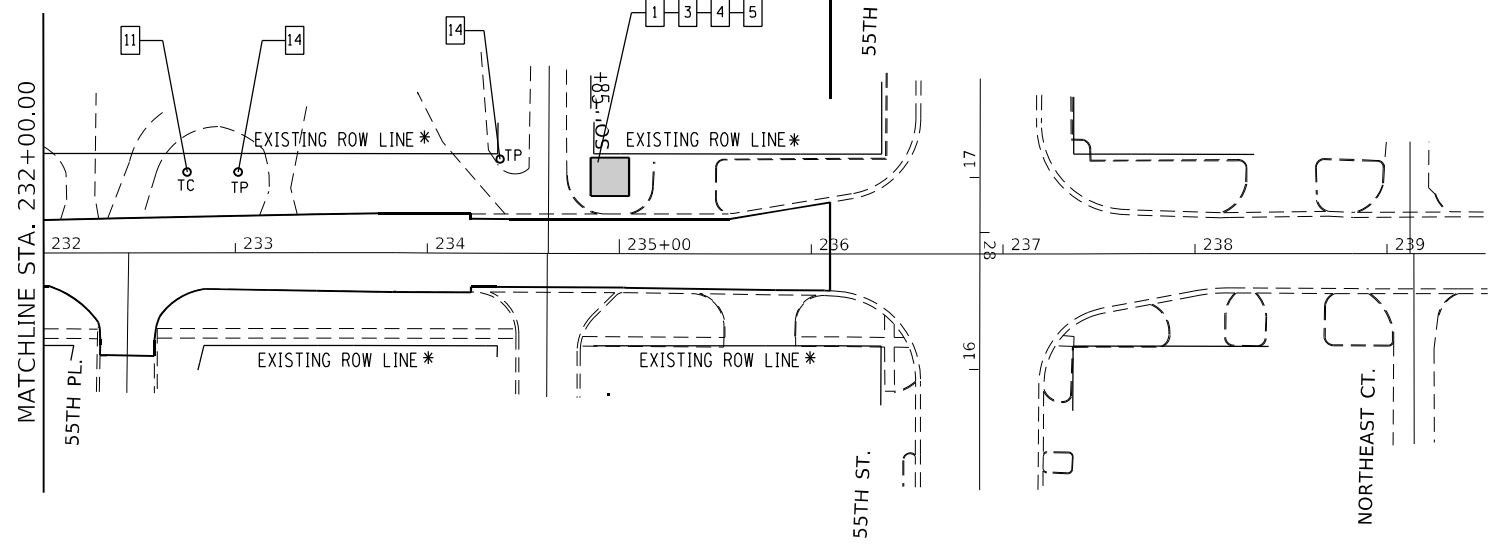
1 - WEED CONTROL, NATIVE LANDSCAPE ENHANCEMENT	8 - SEEDING, CLASS 2A
2 - SELECTIVE CLEARING	9 - HEAVY DUTY EROSION CONTROL BLANKET
3 - TREE REMOVAL, ACRE (SPECIAL)	10 - INTERSEEDING, CLASS 4
4 - INTERSEEDING, CLASS 2A	11 - TC - TREE CARE
5 - MULCH, METHOD 3	12 - X - TREE REMOVAL (6 TO 15 UNITS DIAMETER)
6 - INTERSEEDING, CLASS 4 (MODIFIED)	13 - X - TREE REMOVAL (OVER 15 UNITS DIAMETER)
7 - TOPSOIL FURNISH AND PLACE, 2"	14 - TP - TREE PRUNING (OVER 10 INCH DIAMETER)

LANDSCAPING PAY ITEMS WITH LOCATIONS TO DETERMINE IN FIELD OR COORDINATE WITH ROADSIDE DEVELOPMENT UNIT

- WEED CONTROL, BASAL TREATMENT
 - WEED CONTROL, TEASEL

**IMPROVEMENT ENDS
 STA. 236 + 10**

WILLOW SPRINGS RD.



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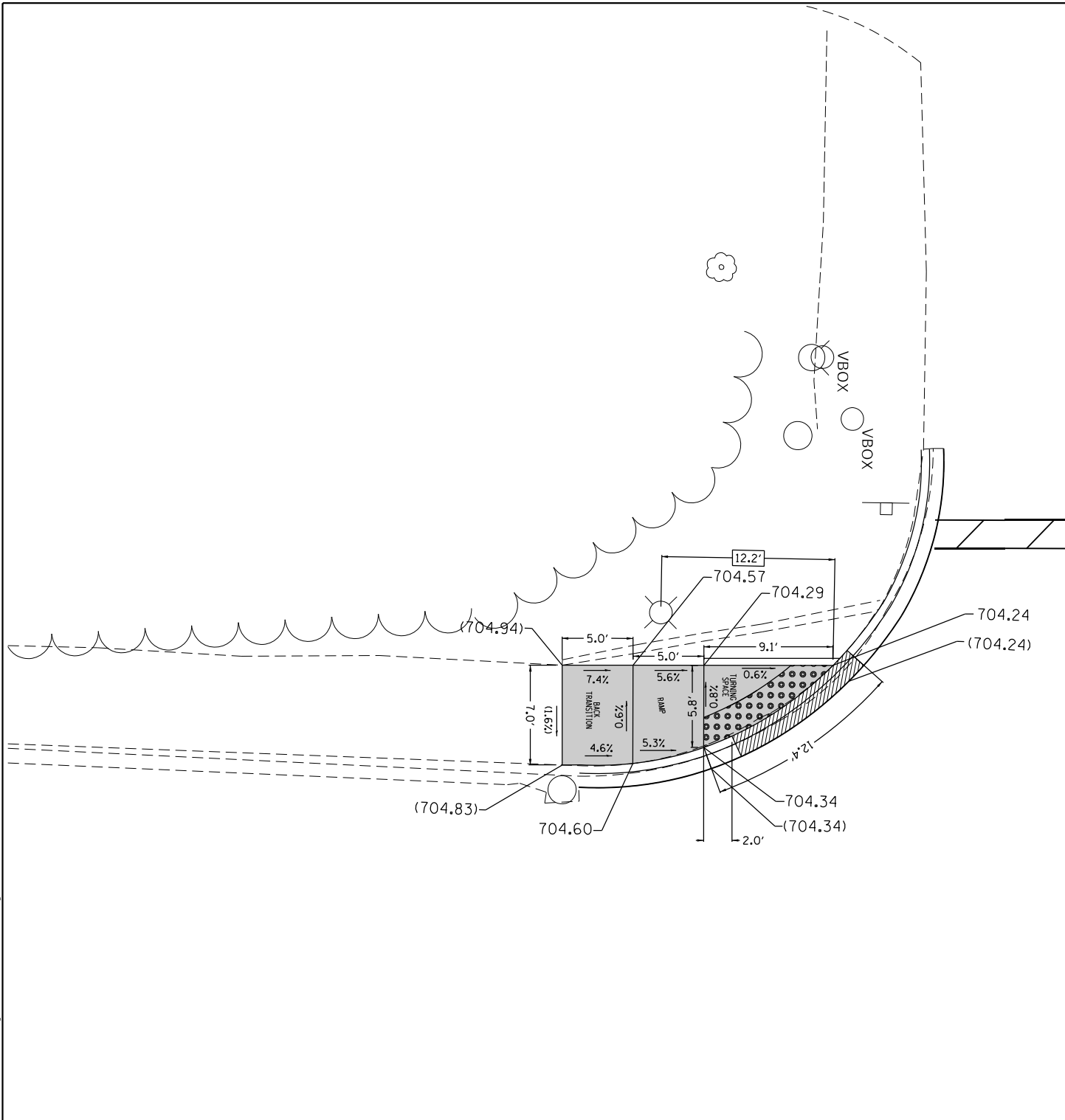
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

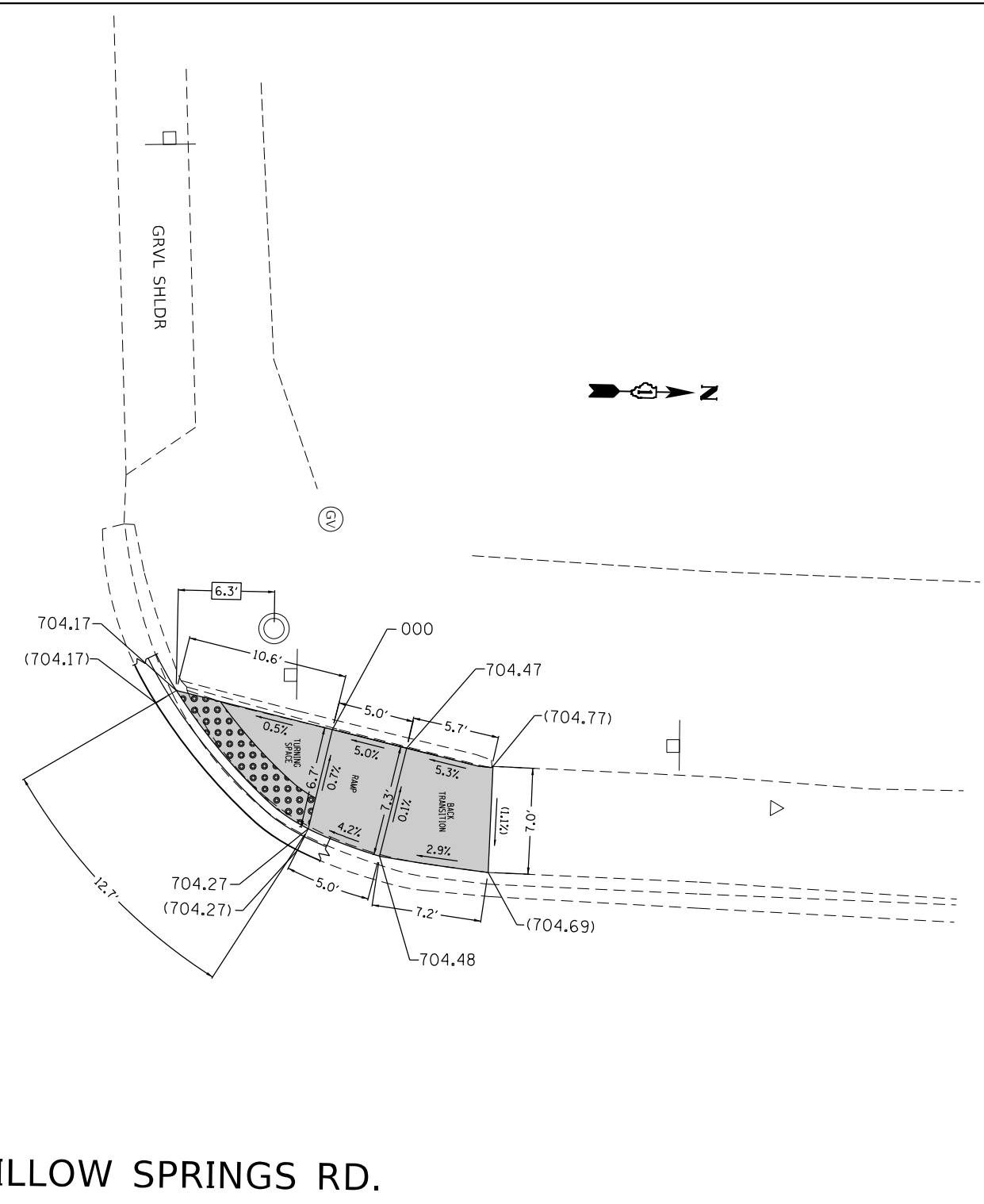
**LANDSCAPING PLAN
 WILLOW SPRINGS ROAD (ARCHER AVENUE TO 55TH STREET)**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	28
CONTRACT NO.			62N81	
ILLINOIS FED. AID PROJECT				



65th PLACE



WILLOW SPRINGS RD.

REFERENCE BENCHMARK ELEV: 704.90
 BENCHMARK DESCRIPTION : SW BOLT ON FIRE HYDRANT.
 BENCHMARK LOCATION : SW CORNER OF WILLOW SPRINGS RD. AND 65TH PLACE.

LEGEND

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

**PROP. ADA LOCATION:
 N.W. AND S.W. CORNERS OF WILLOW SPRINGS RD. AND 65TH PLACE.**

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PLOT DATE = 6/8/2022	DATE -	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**SIDEWALK DETAIL PLAN
 WILLOW SPRINGS RD. (IL-171 /ARCHER AVE. TO N. OF 55TH ST.)**

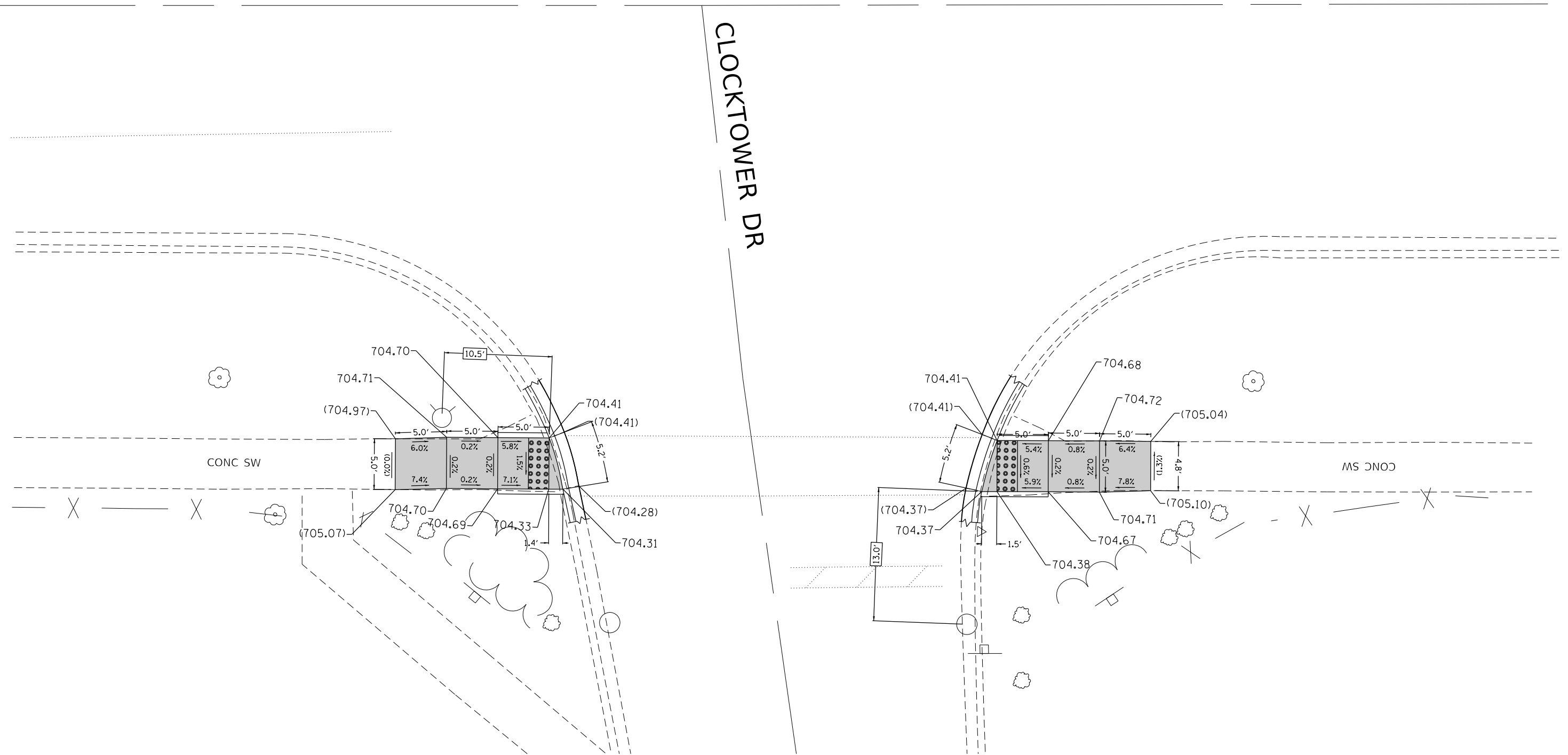
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	29
CONTRACT NO. 62N81				
ILLINOIS FED. AID PROJECT				



WILLOW SPRINGS RD.

CLOCKTOWER DR



REFERENCE BENCHMARK ELEV: 704.90
 BENCHMARK DESCRIPTION : SW BOLT ON FIRE HYDRANT.
 BENCHMARK LOCATION : SW CORNER OF WILLOW SPRINGS RD. AND 65TH PLACE.

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

PROP. ADA LOCATION:
 N.E. AND S.E. CORNERS OF WILLOW SPRINGS RD. AND 65TH ST.

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

SIDEWALK DETAIL PLAN
 WILLOW SPRINGS RD. (IL-171 /ARCHER AVE. TO N. OF 55TH ST.)

SCALE: SHEET OF SHEETS STA. TO STA.

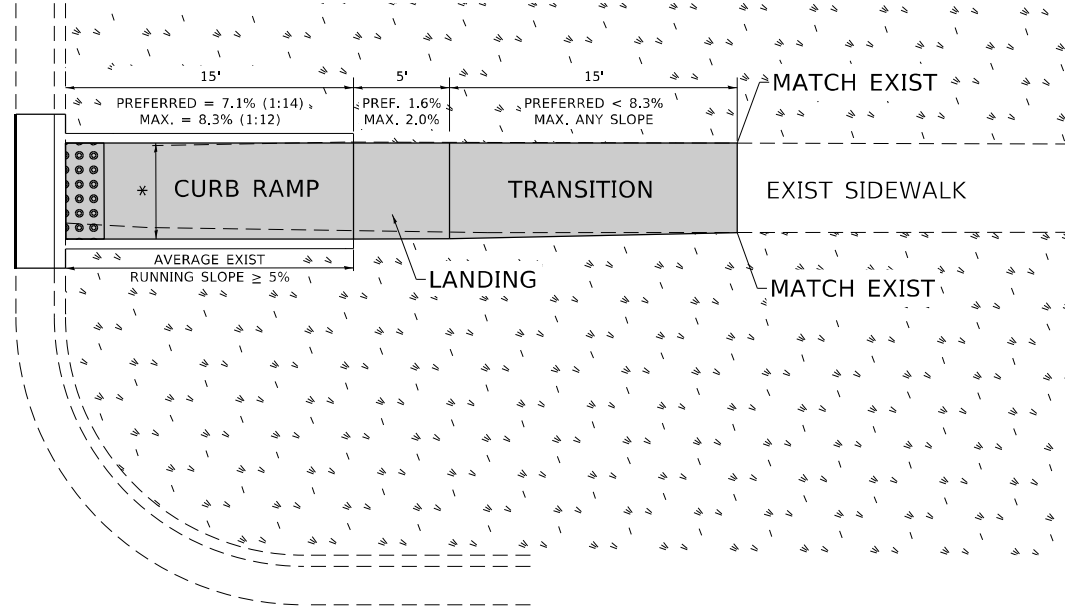
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62N81				
ILLINOIS FED. AID PROJECT				

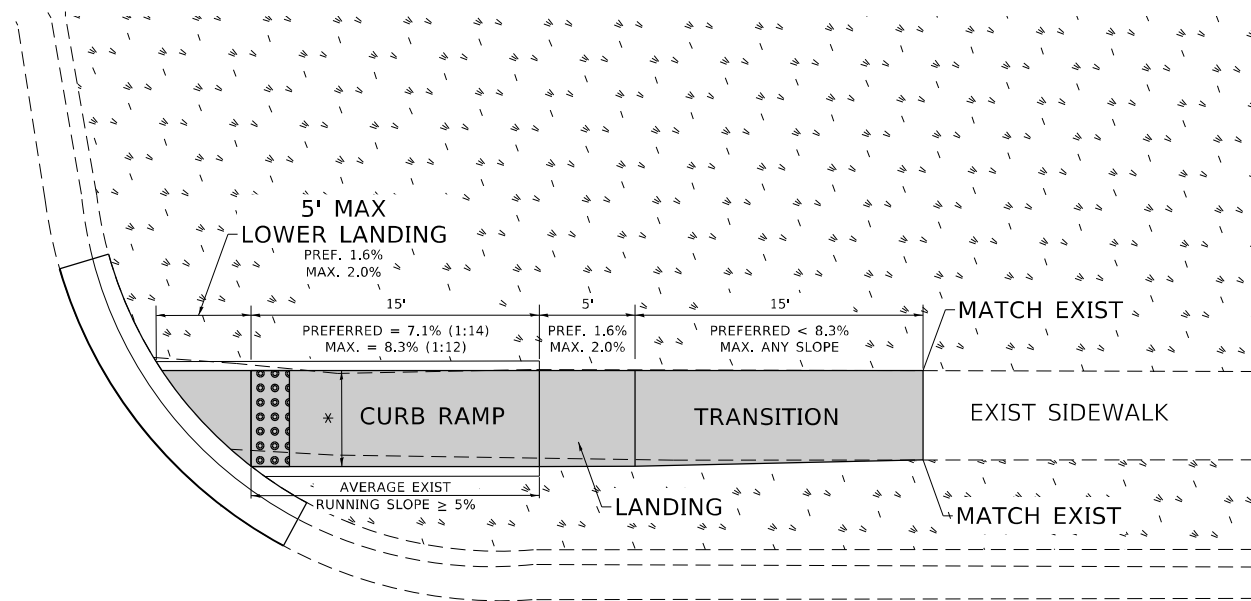
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ADA DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS W/ EXIST. 5% OR GREATER RUN. SLOPE

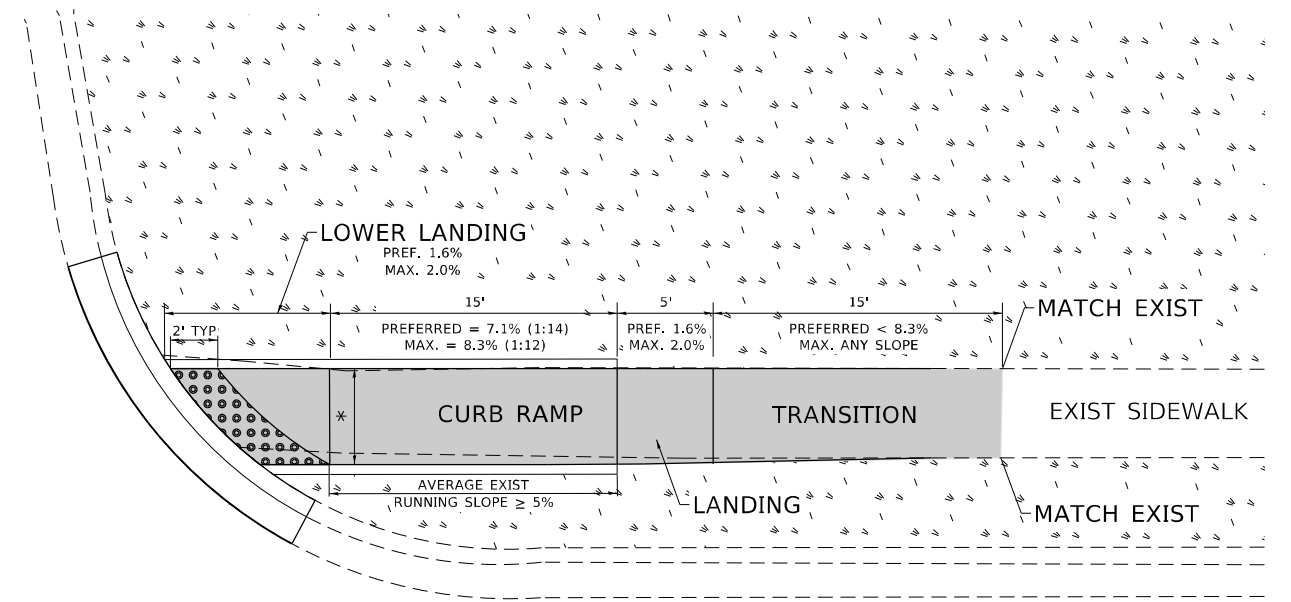
PD-02A



PD-02B



PD-02C



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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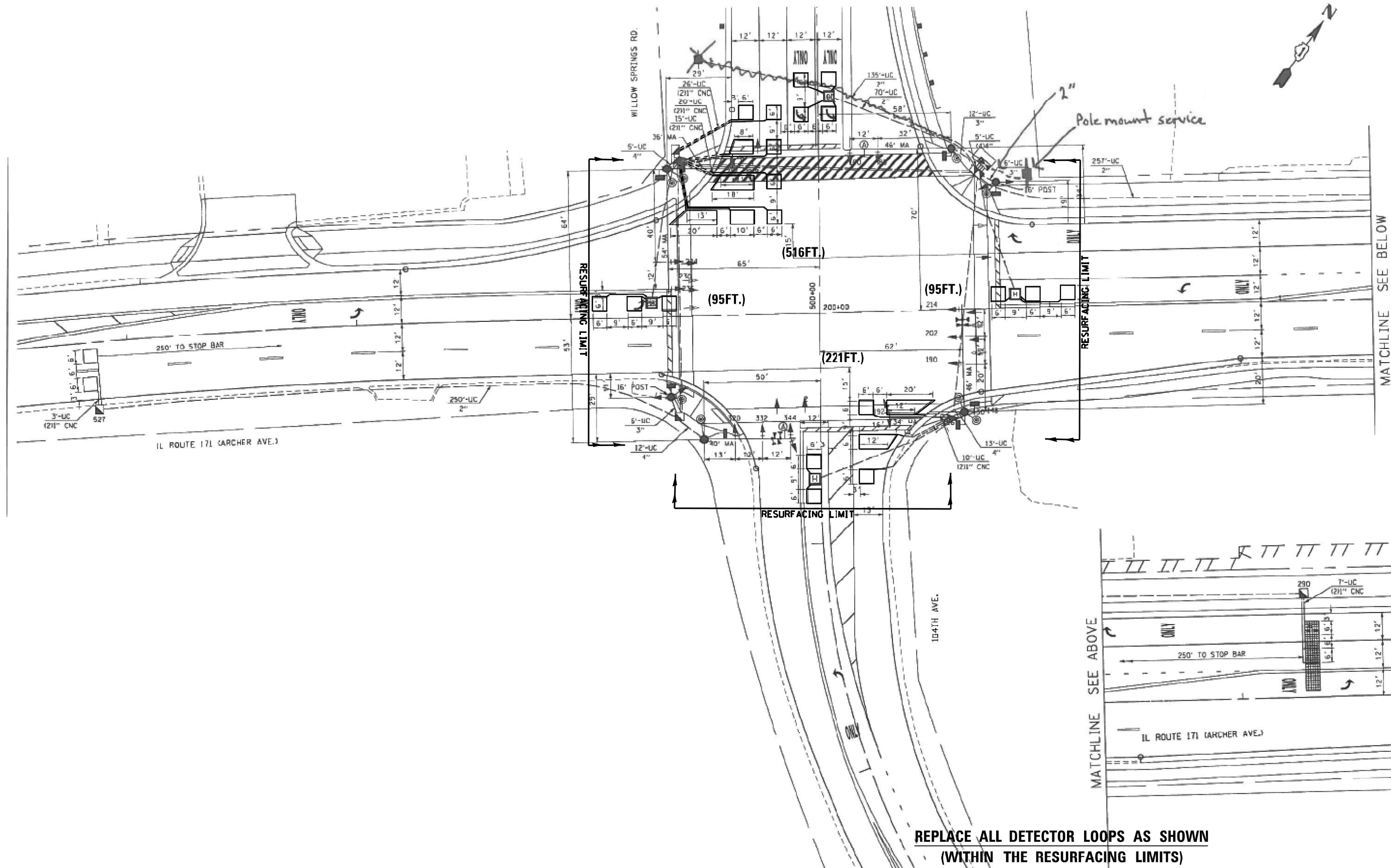
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	DATE - 10/02/2019	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**PROJECT DETAIL FOR SINGLE PERPENDICULAR CURB RAMPS
(PD-02)**

SCALE: NONE SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	31
PD-02		CONTRACT NO. 62N81		
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	927	FOOT

TS#3570

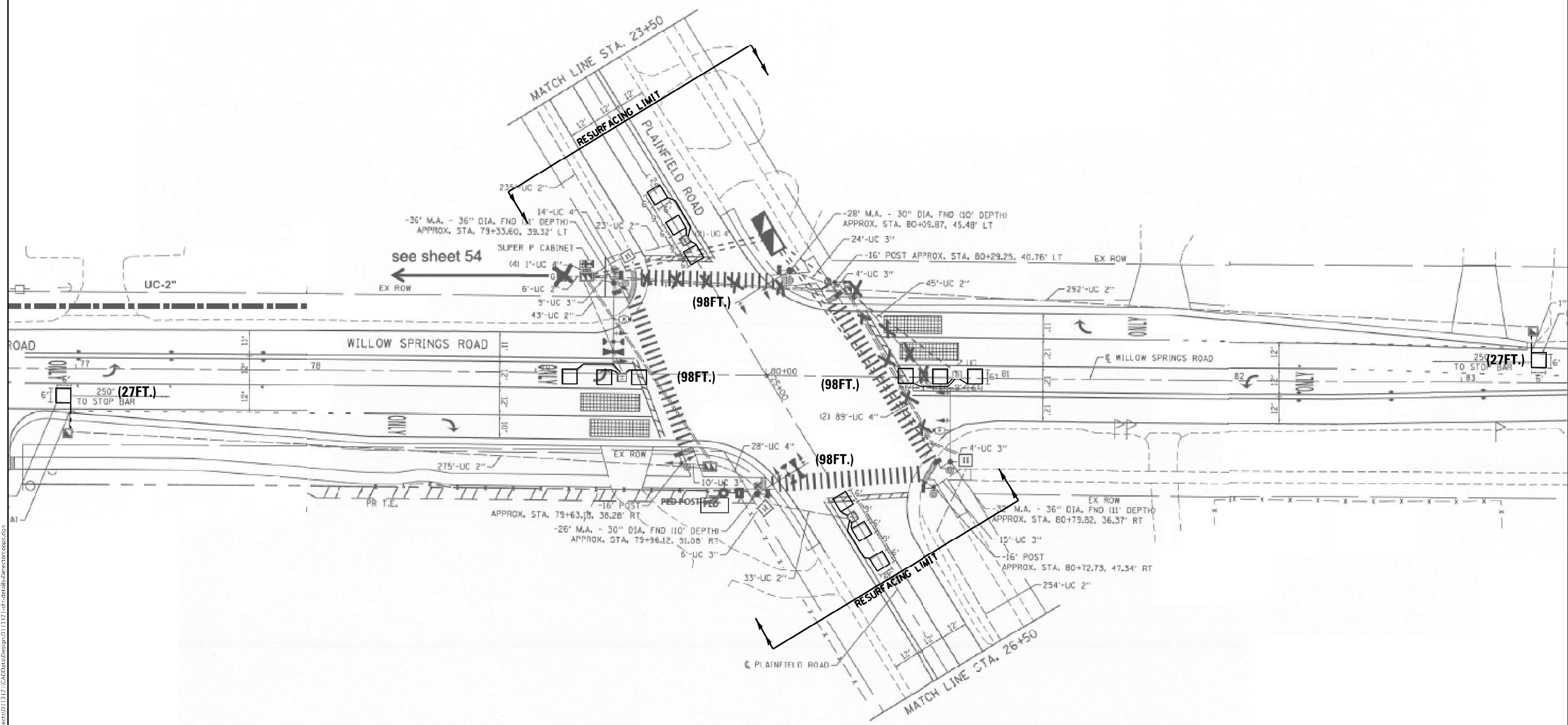
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PLOT DATE = 6/8/2022	CHECKED -	REVISED -
	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETECTOR LOOP REPLACEMENT PLAN				
WILLOW SPRINGS RD. AT ARCHER AVE.				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	33
CONTRACT NO. 62N81				
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	446	FOOT	TS#5935

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

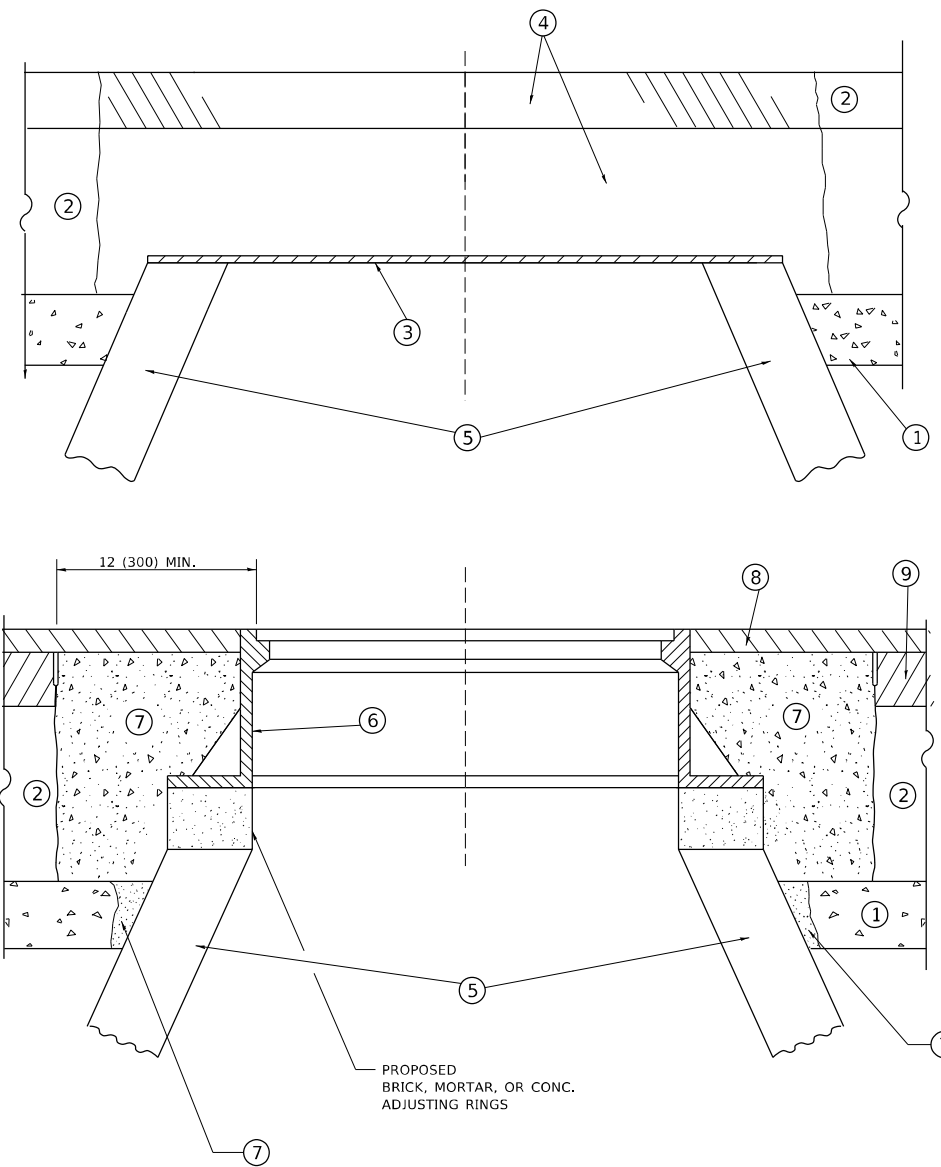
**DETECTOR LOOP REPLACEMENT PLAN
WILLOW SPRINGS RD. AT PLAINFIELD RD.**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	37
CONTRACT NO. 62N81				

SCALE: SHEET OF SHEETS STA. TO STA.

ILLINOIS FED. AID PROJECT

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

CONSTRUCTION PROCEDURES

STAGE 1 (BEFORE PAVEMENT MILLING)

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

STAGE 2 (AFTER PAVEMENT MILLING)

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

* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

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

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- 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

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

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

NOTES

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

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PLOT DATE = 6/8/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

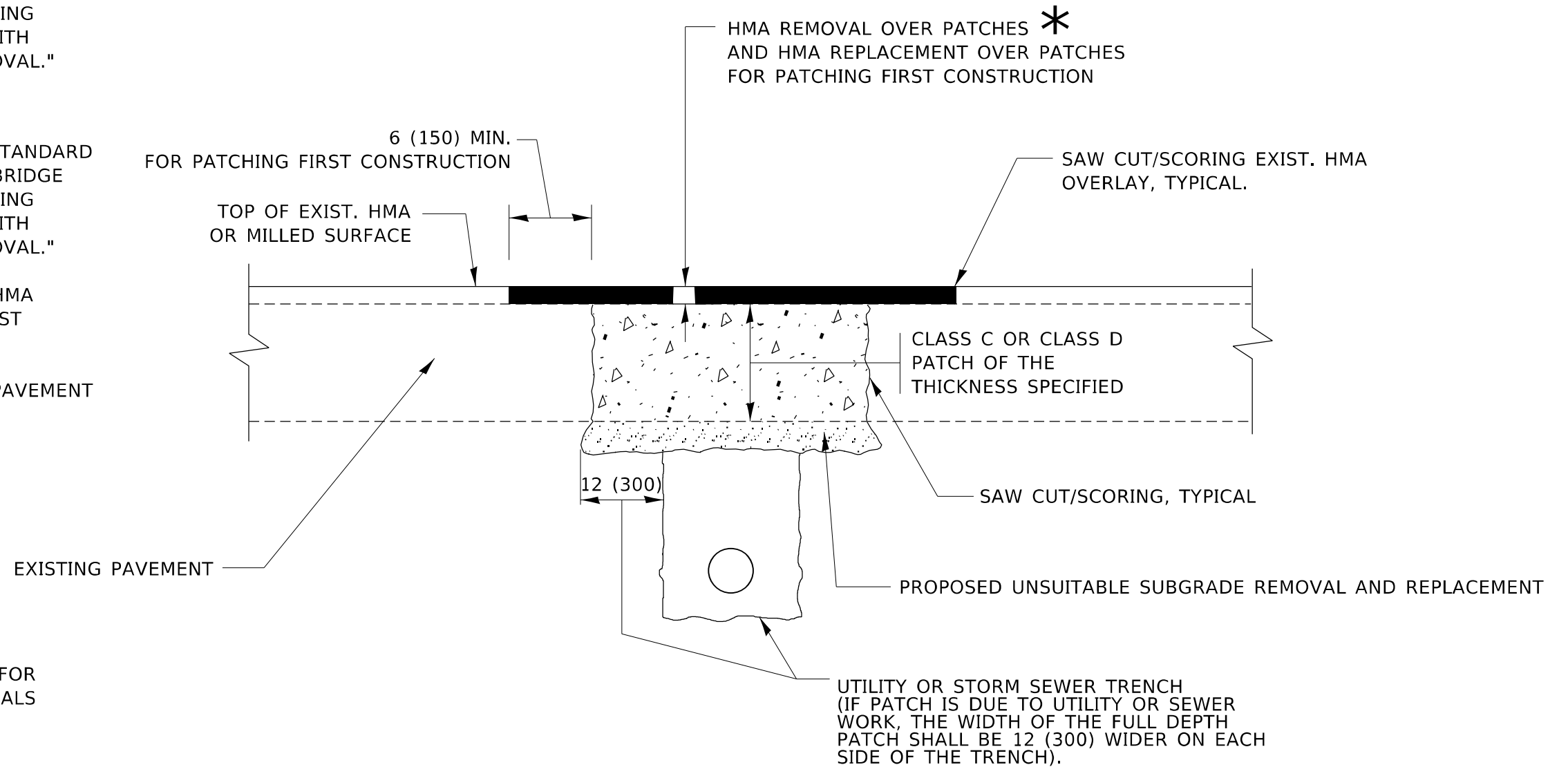
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2697	2021-019-R5-SR&SW	COOK	53	39
BD600-03 (BD-08)		CONTRACT NO. 62N81		
ILLINOIS		FED. AID PROJECT		

METHOD OF MEASUREMENT

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

BASIS OF PAYMENT

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



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

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

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

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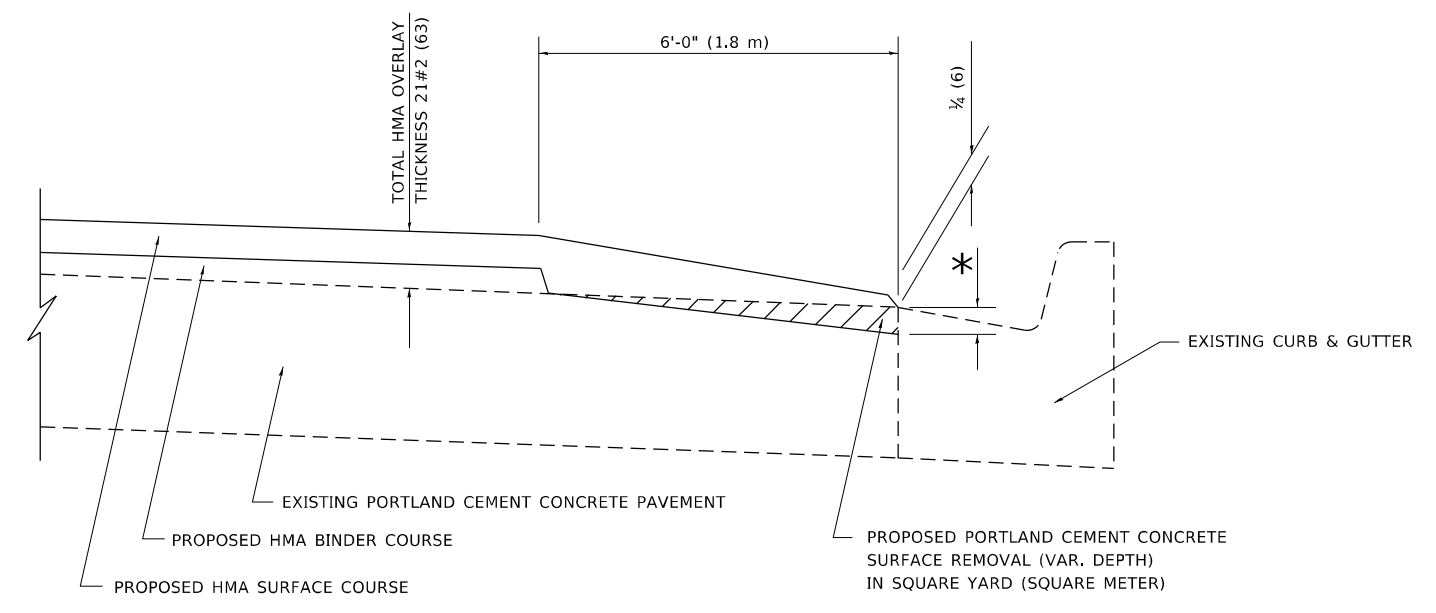
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PLOT DATE = 6/8/2022	DATE - 10-25-94	REVISED - K. SMITH 02-01-22

**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.
2697	2021-019-R5-SR&SW	COOK	53	40
BD400-04 (BD-22)			CONTRACT NO. 62N81	
ILLINOIS FED. AID PROJECT				



**HMA TAPER AT
EDGE OF P.C.C. PAVEMENT**

HMA SURFACE COURSE	HMA BINDER COURSE	* MILLING AT GUTTER FLAG	
MIX	THICKNESS	THICKNESS	
D	1 1/2 (38)	1 (25)	1 1/4 (33)
E OR SMA 9.5	1 3/4 (44)	3/4 (19)	1 1/2 (38)

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

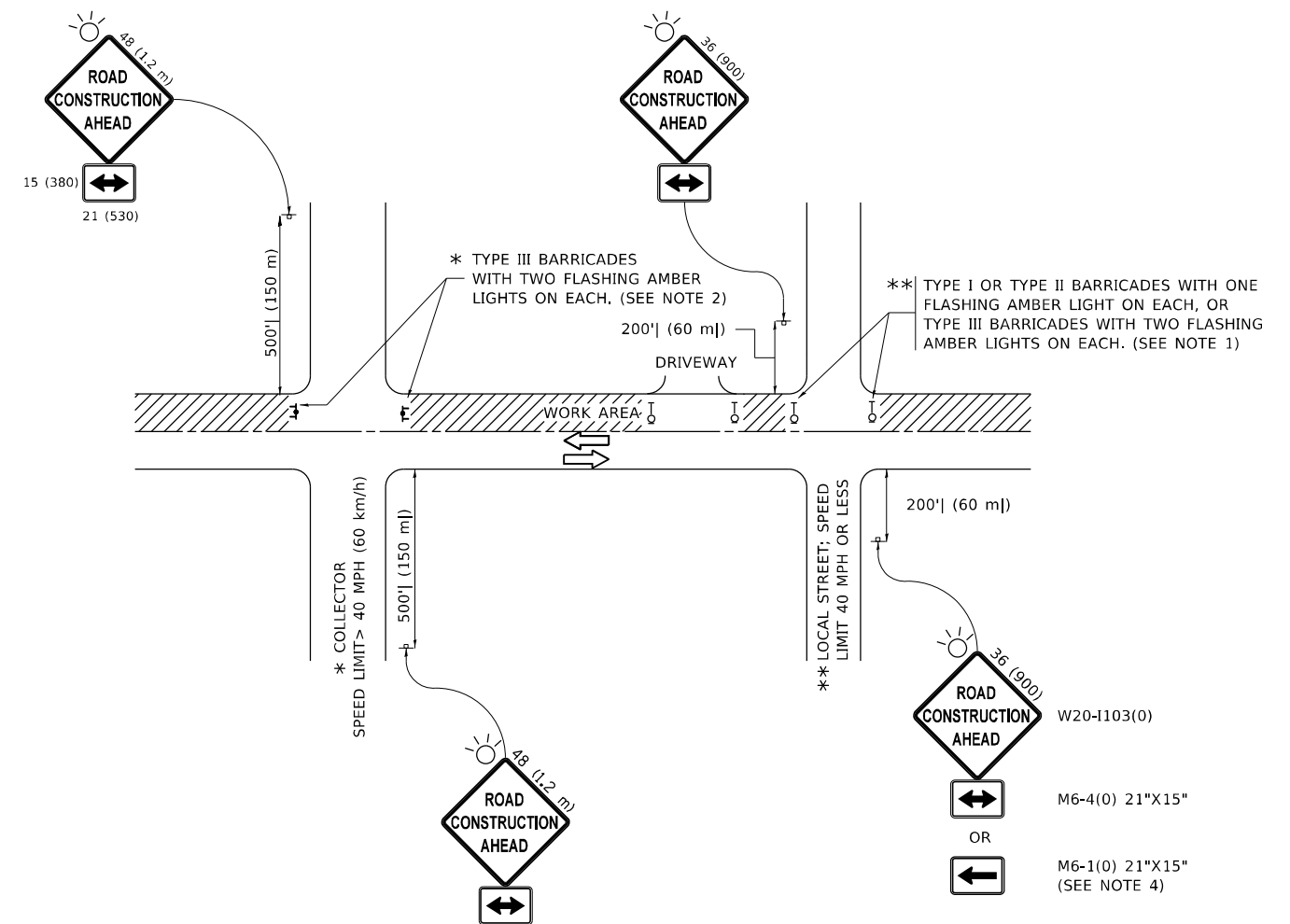
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PLOT DATE = 6/8/2022	DATE - 09-10-94	REVISED - K. SMITH 02-01-22

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

HMA TAPER AT EDGE OF P.C.C. PAVEMENT			
SCALE: NONE	SHEET 1	OF 1 SHEETS	STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	43
BD400-06	BD-33	CONTRACT NO. 62N81		
ILLINOIS FED. AID PROJECT				



NOTES:

- 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:
 - 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.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 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.
- SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).
- 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.
- ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER.
- 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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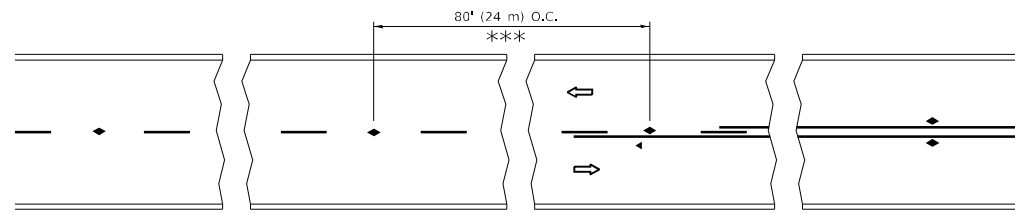
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PLOT DATE = 6/8/2022	DATE - 06-89	REVISED - A. SCHUETZE 07-01-13
		REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

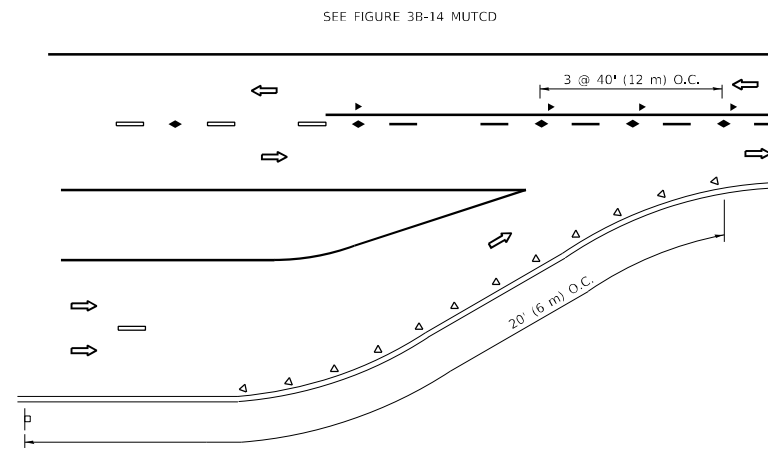
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F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-10			CONTRACT NO. 62N81	
ILLINOIS FED. AID PROJECT				

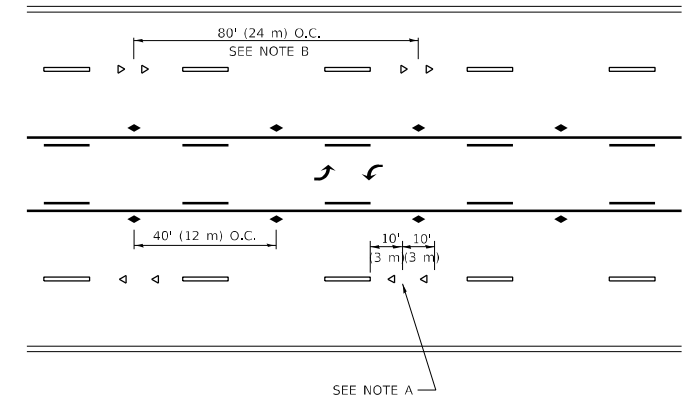


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

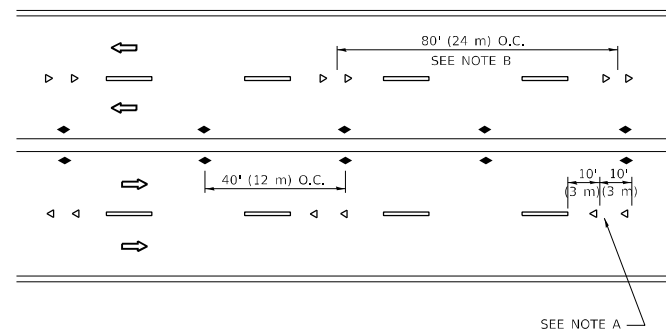
TWO-LANE/TWO-WAY



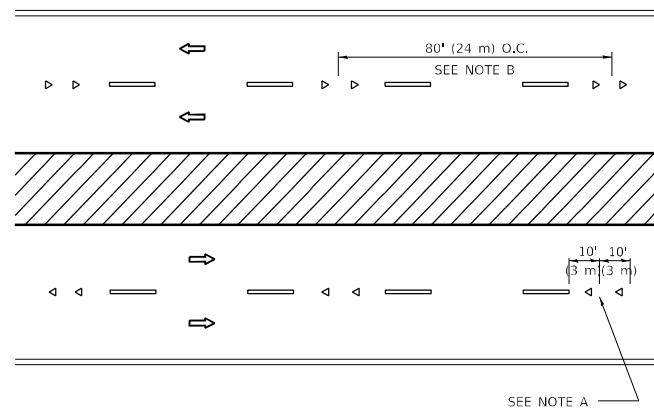
LANE REDUCTION TRANSITION



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

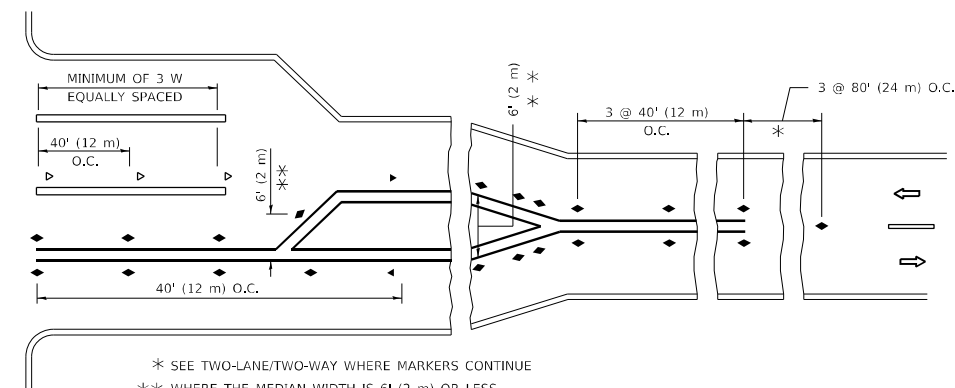
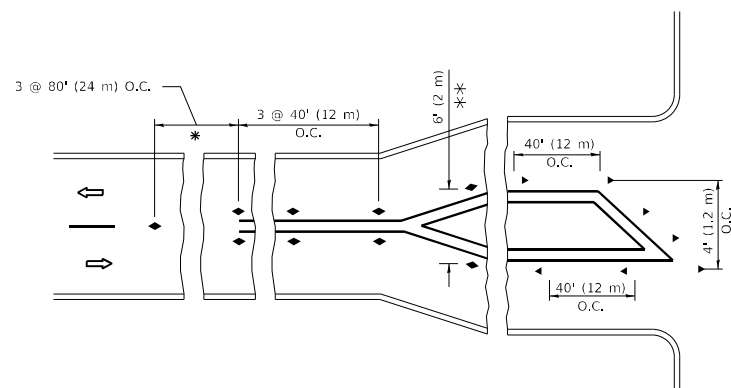
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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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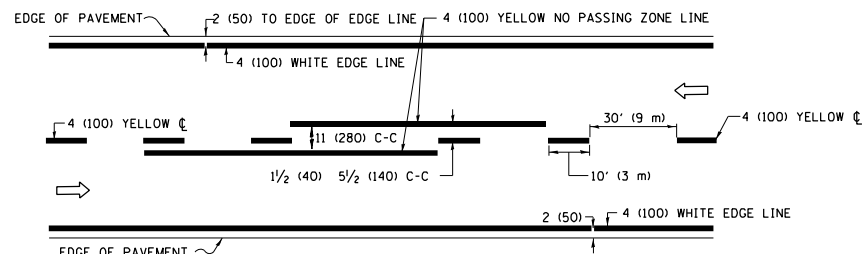
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	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

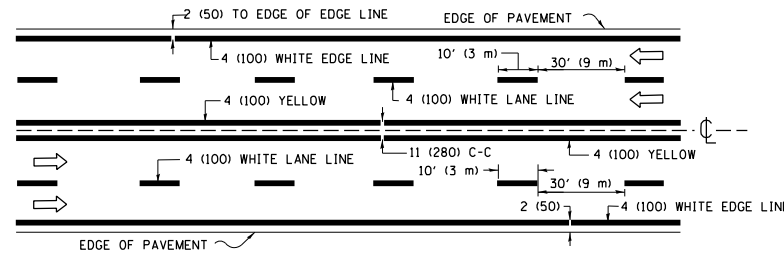
**TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)**

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

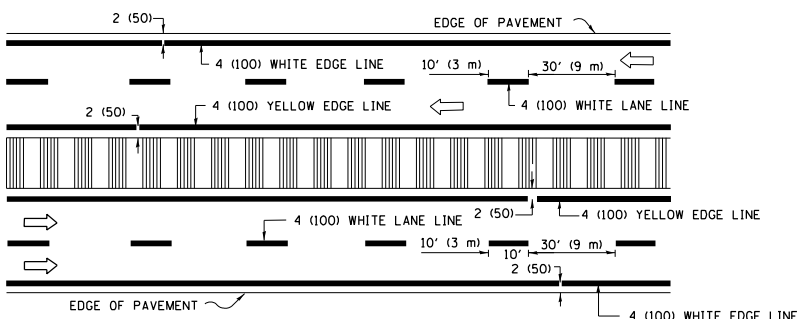
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-RS-SR&SW	COOK	53	46
TC-11			CONTRACT NO. 62N81	
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

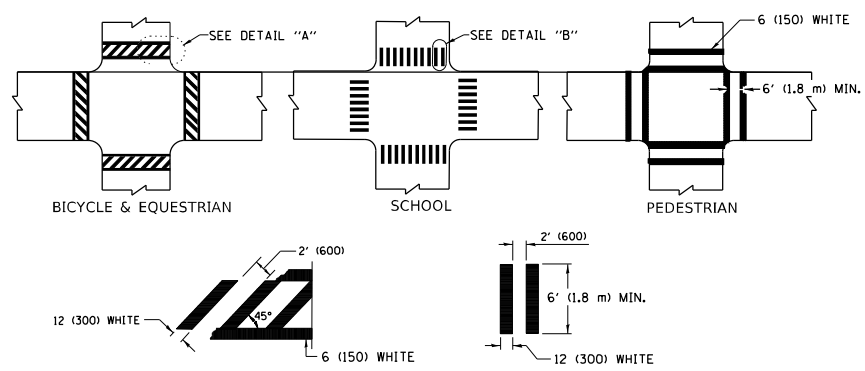


MULTI-LANE UNDIVIDED



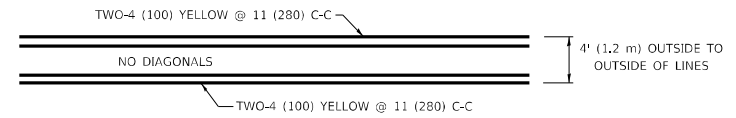
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

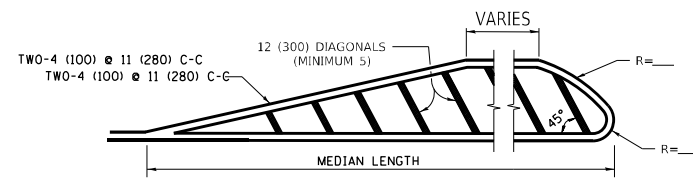


TYPICAL CROSSWALK MARKING

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



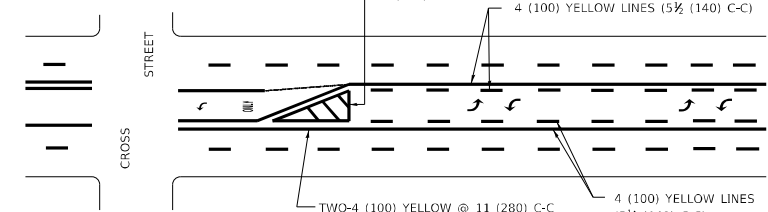
4' (1.2 m) WIDE MEDIANS ONLY



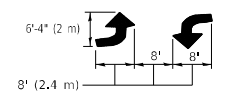
MEDIANS OVER 4' (1.2 m) WIDE

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

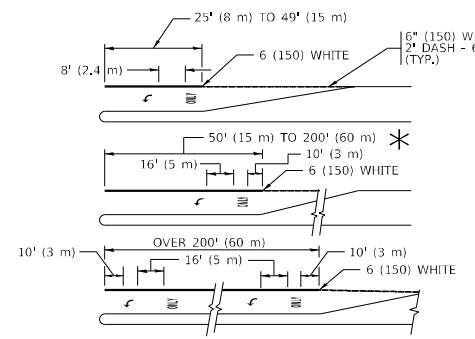
DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))



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.



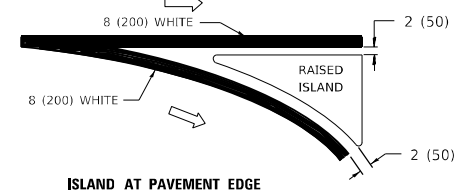
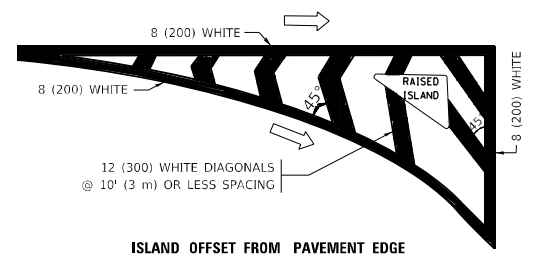
MEDIAN WITH TWO-WAY LEFT TURN LANE
TYPICAL PAINTED MEDIAN MARKING



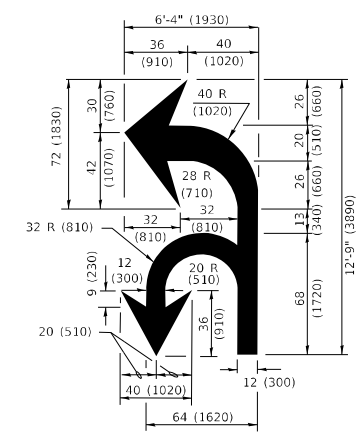
FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.
AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* 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".

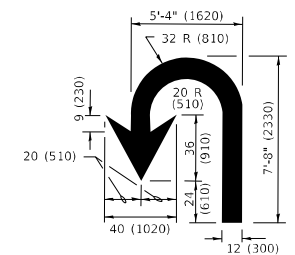
TYPICAL LEFT (OR RIGHT) TURN LANE
TYPICAL TURN LANE MARKING



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	5/2 (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; 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSWALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT, PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES: "RR" IS 6' (1.8 m) LETTERS: 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C 30 MPH (50 km/h) TO 45MPH (70 km/h) 150' (45 m) C-C (OVER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

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

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

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PLOT SCALE = 100,0000' / in.	CHECKED -	REVISED - C. JUCIUS 07-01-13
PLOT DATE = 6/8/2022	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
		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.
2697	2021-019-RS-SR&SW	COOK	53	47
TC-13		CONTRACT NO. 62N81		
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

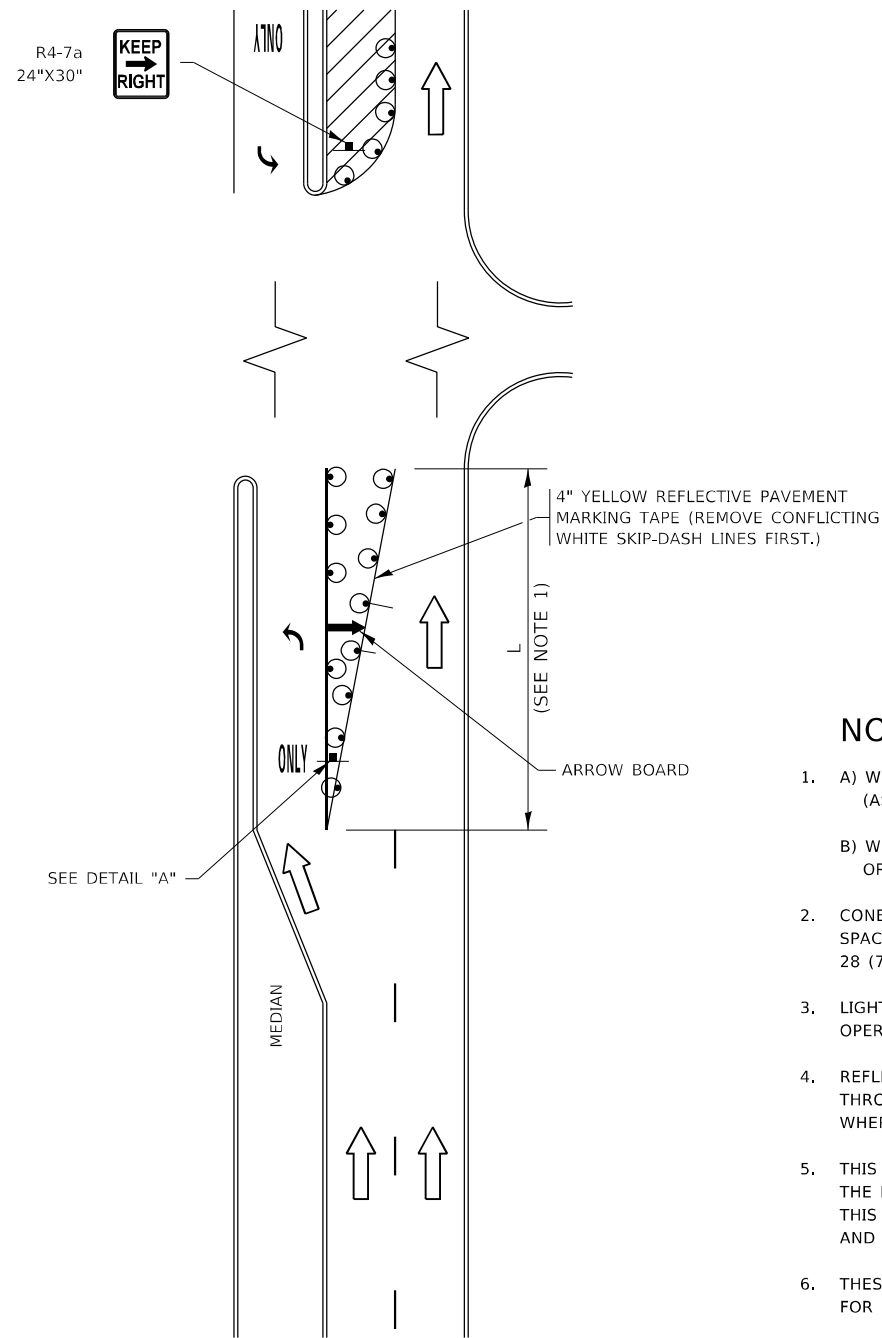


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

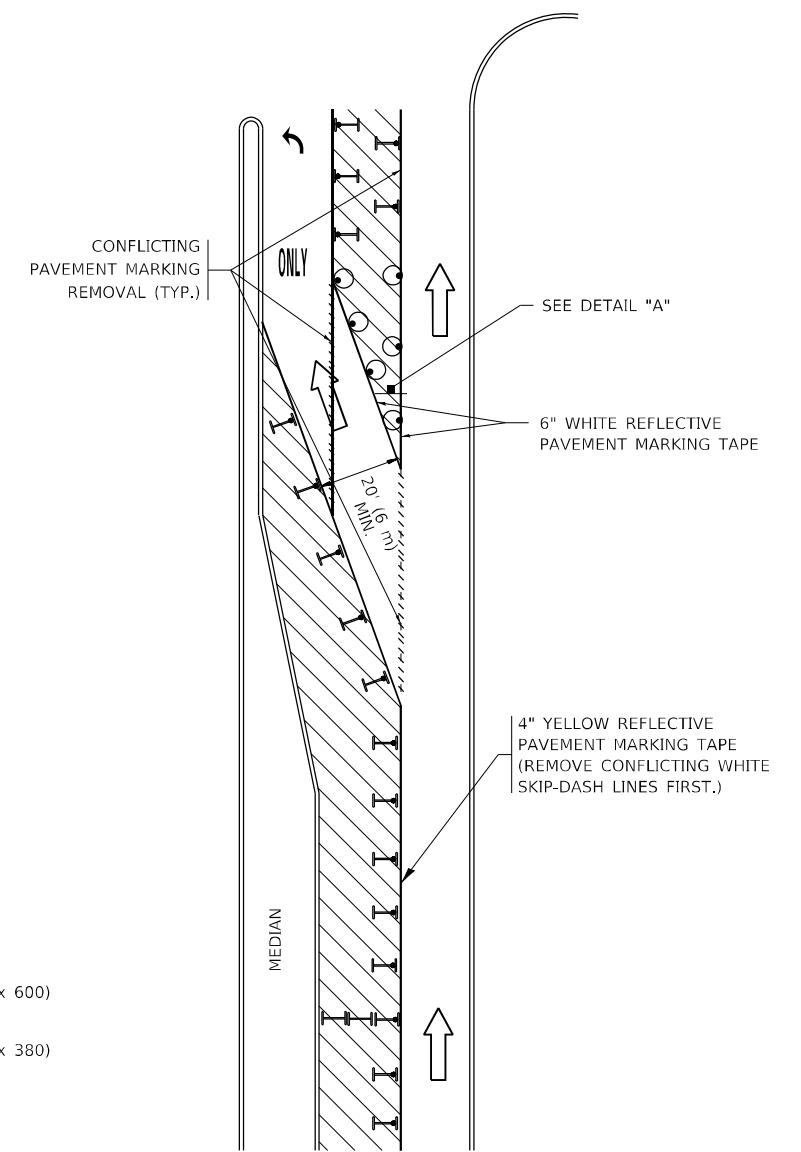


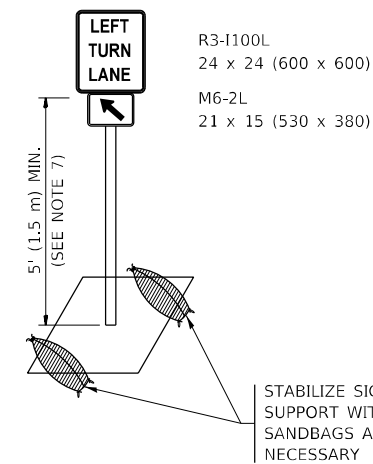
FIGURE 2

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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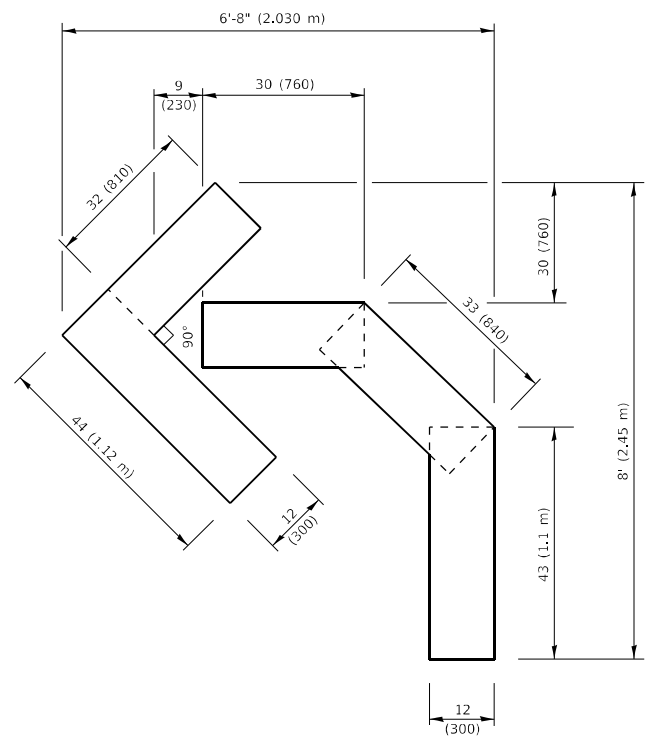
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PLOT SCALE = 100,0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 6/8/2022	DATE - T. RAMMACHER 01-06-00	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

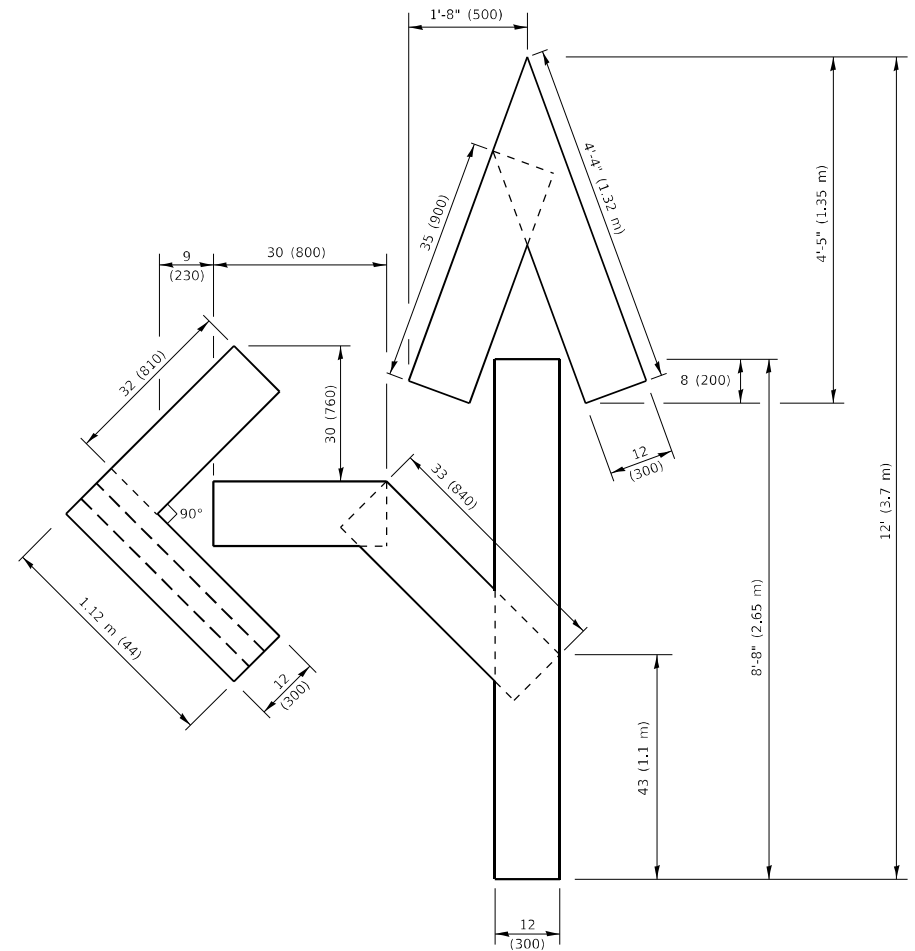
**TRAFFIC CONTROL AND PROTECTION AT TURN BAYS
(TO REMAIN OPEN TO TRAFFIC)**

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

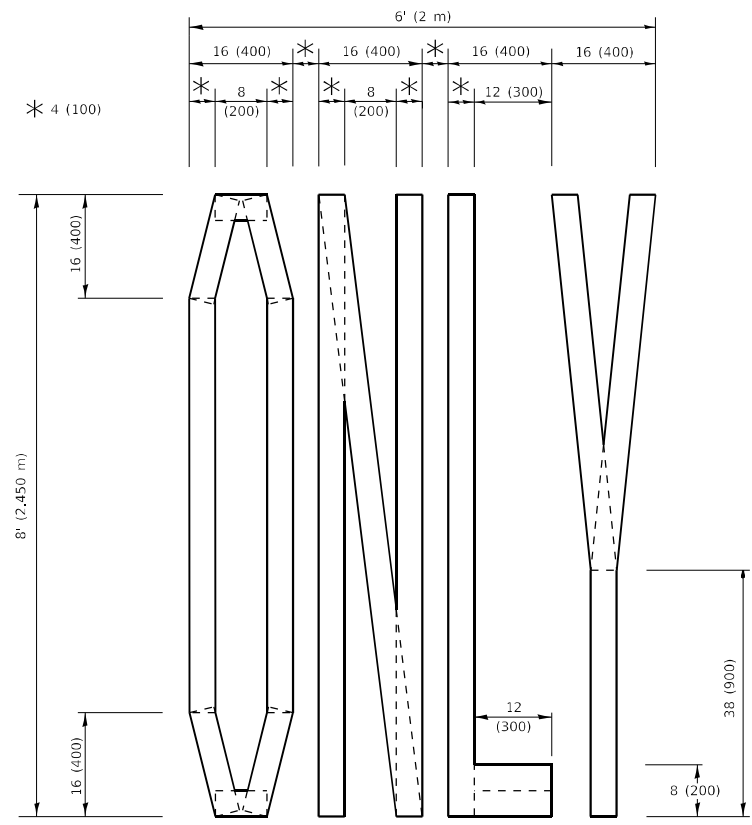
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	48
TC-14		CONTRACT NO. 62N81		
ILLINOIS FED. AID PROJECT				



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

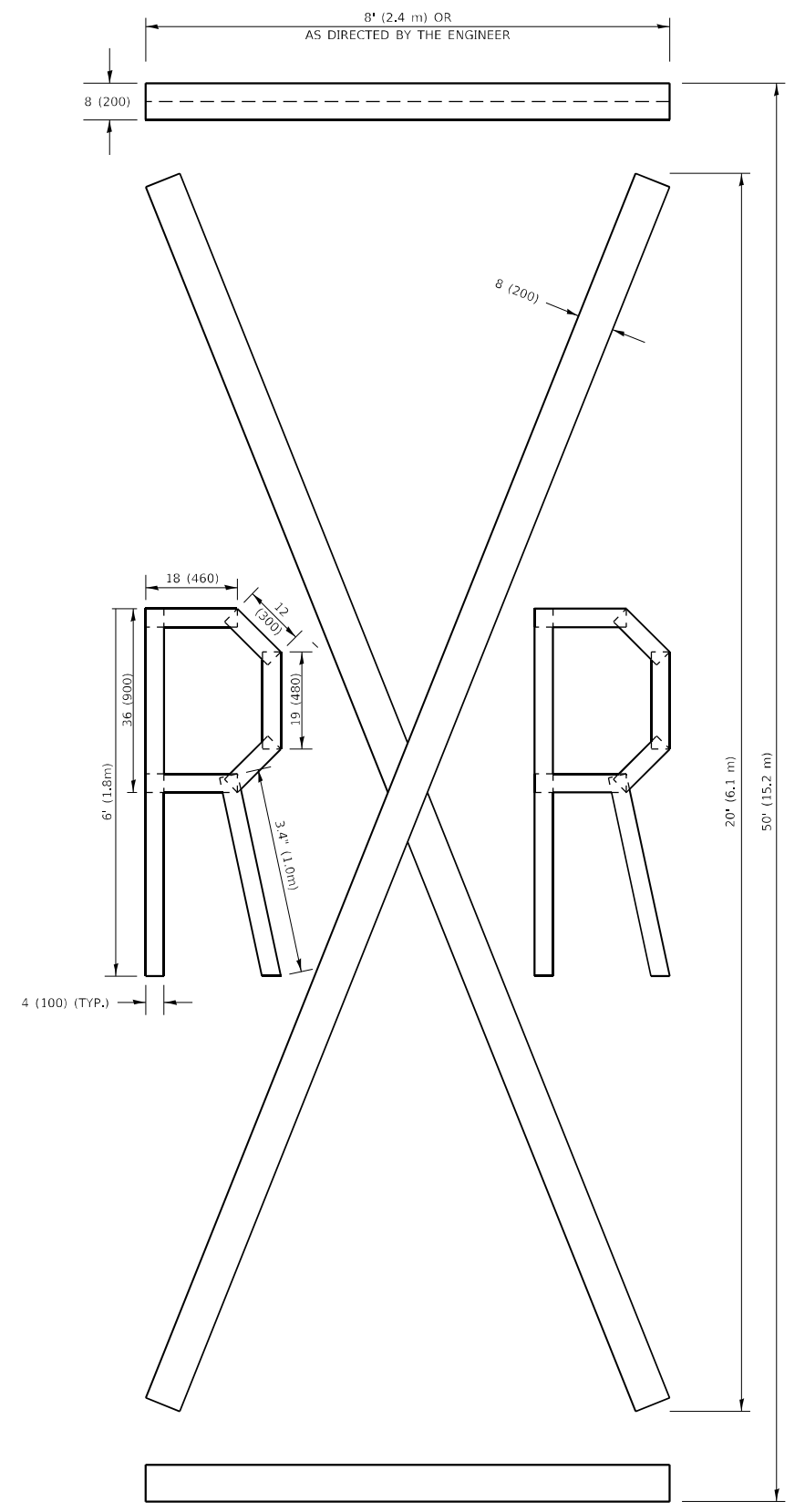


QUANTITY
 4 (100) LINE = 82.5 ft. (25.1 m)
 27.5 sq. ft. (2.53 sq. m)



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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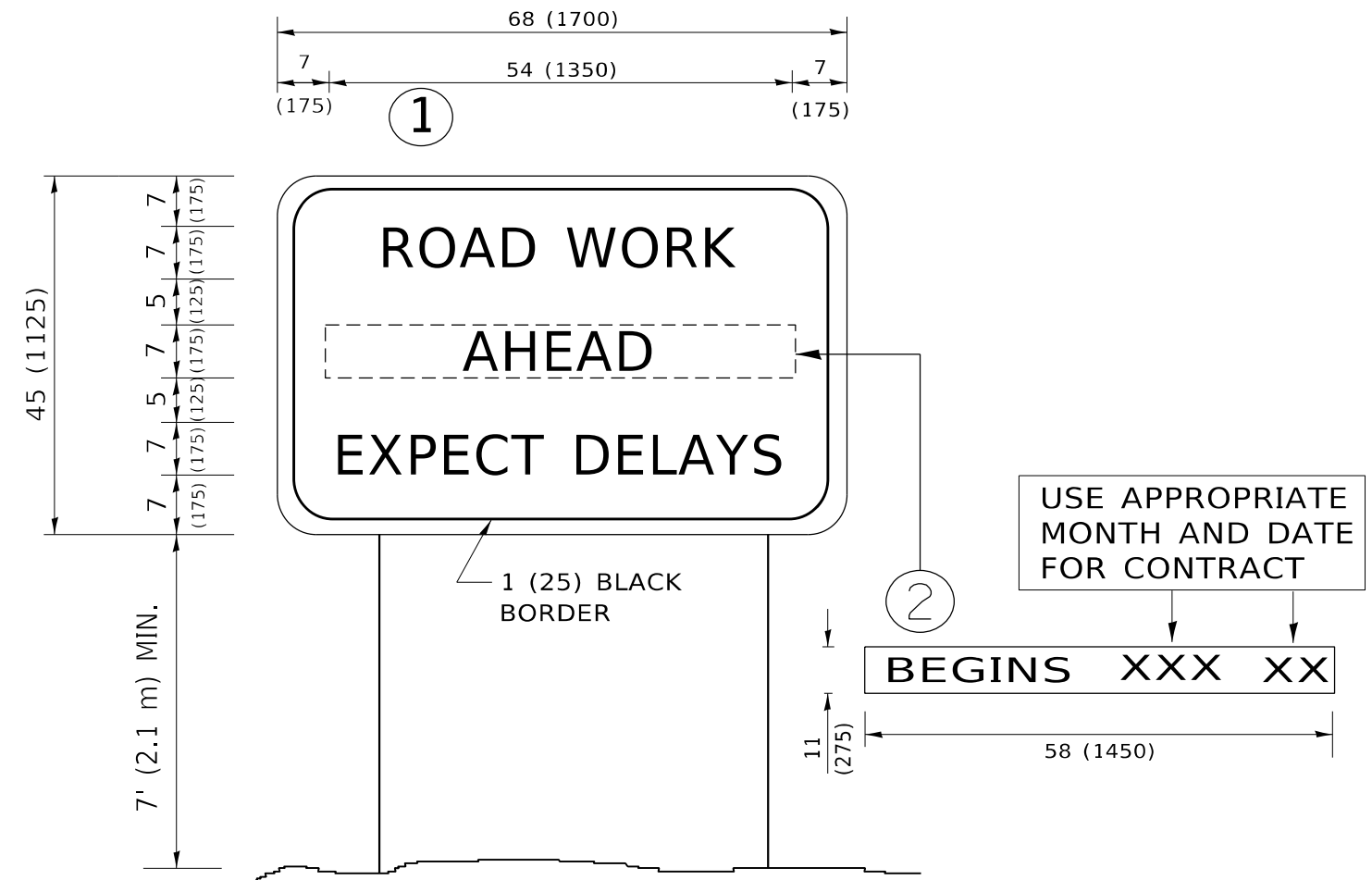
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PLOT DATE = 6/8/2022	DATE - 09-18-94	REVISED - A. SCHUETZE 09-15-16

**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.
2697	2021-019-R5-SR&SW	COOK	53	49
TC-16		CONTRACT NO. 62N81		
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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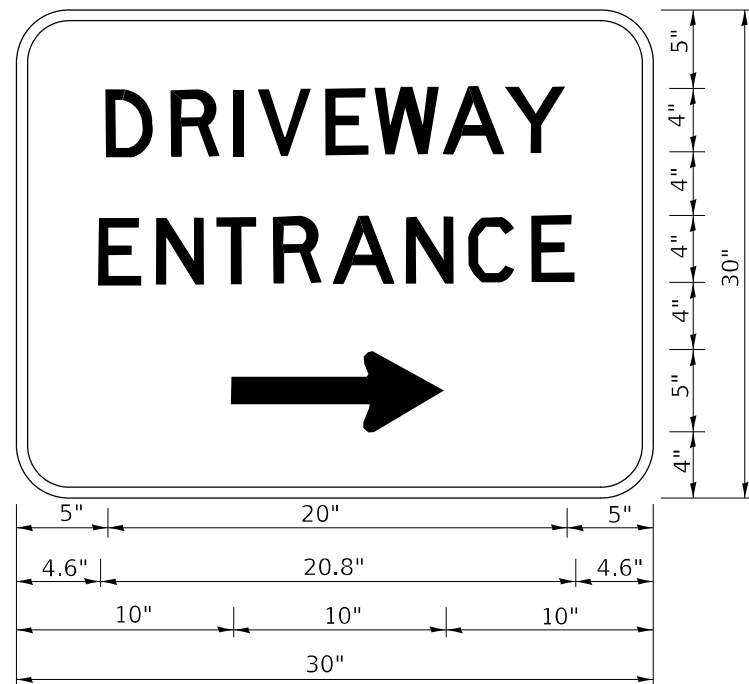
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PLOT DATE = 6/8/2022	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	50
TC-22			CONTRACT NO. 62N81	
ILLINOIS FED. AID PROJECT				



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

NOTES:

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

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

DRIVEWAY ENTRANCE SIGNING

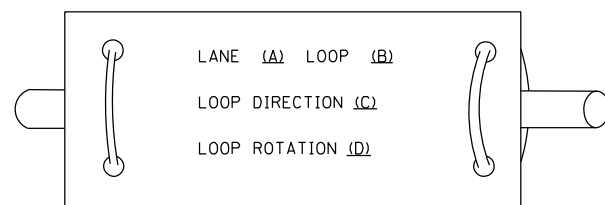
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-26			CONTRACT NO. 62N81	
		ILLINOIS	FED. AID PROJECT	

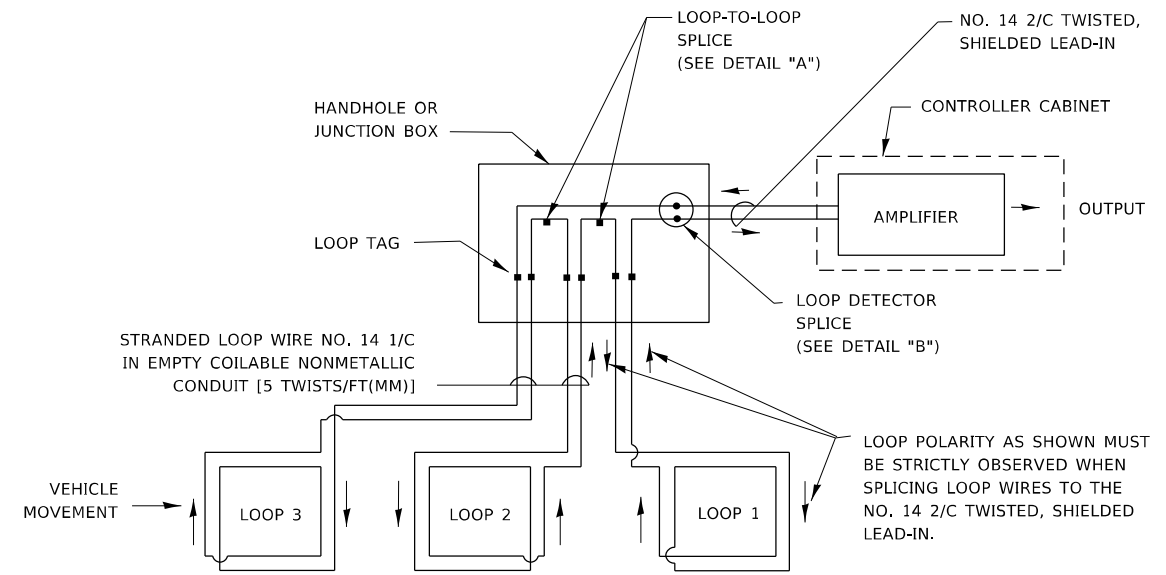
LOOP DETECTOR NOTES

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

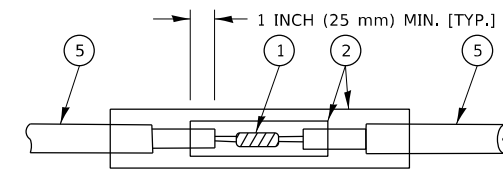


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

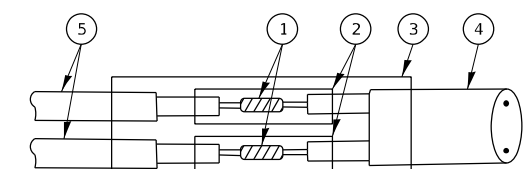


DETECTOR LOOP WIRING SCHEMATIC

- 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.

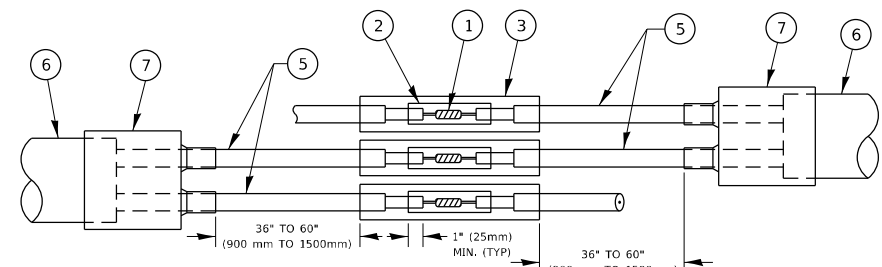


DETAIL "A"
LOOP-TO-LOOP SPLICE

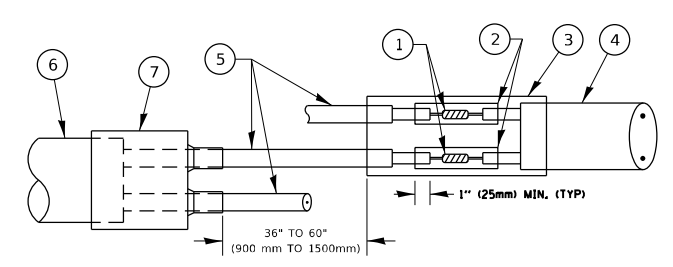


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

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

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PLOT DATE = 6/8/2022	DATE -	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

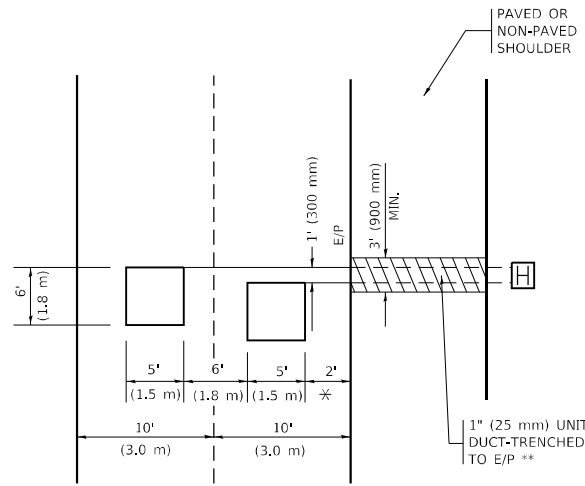
**DISTRICT ONE
STANDARD TRAFFIC SIGNAL DESIGN DETAILS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	52
TS-05			CONTRACT NO. 62N81	
ILLINOIS		FED. AID PROJECT		

LOOPS NEXT TO SHOULDERS

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

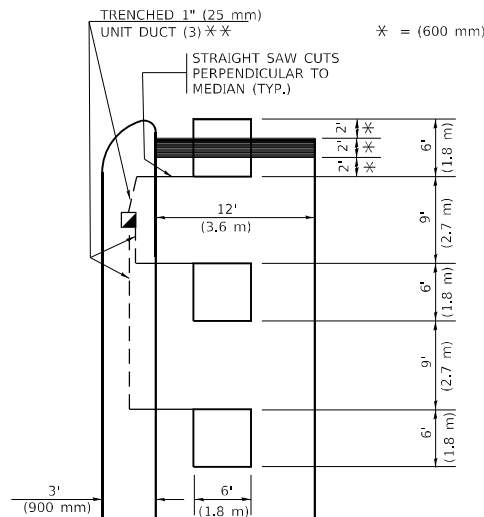


* = (600 mm)

** 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.

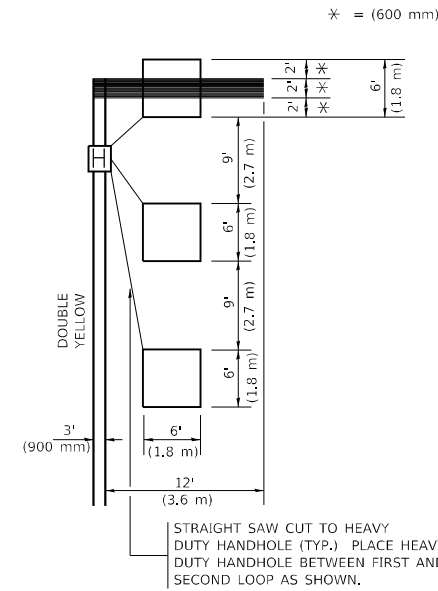


* = (600 mm)

** 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.

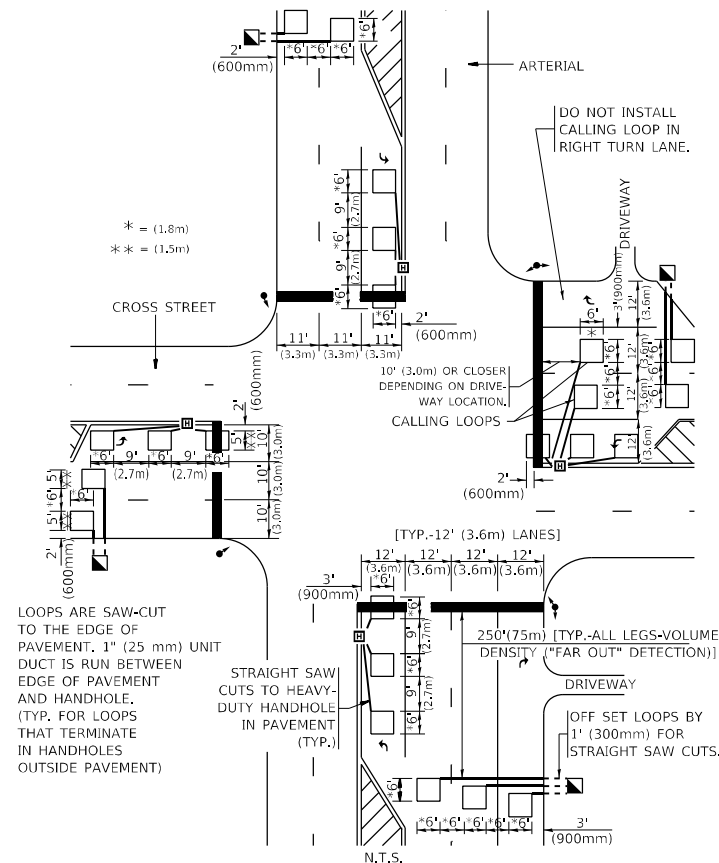
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

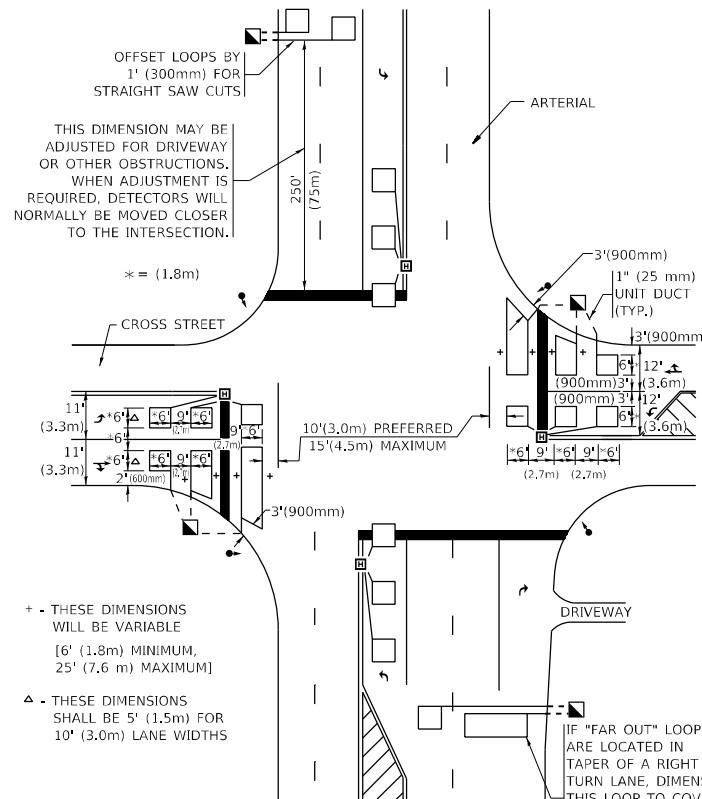
ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)
CROSS STREET-NON VOLUME DENSITY ("FAR OUT" DETECTION)



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

DETAIL 1
 N.T.S.

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



+ 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.

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.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2697	2021-019-R5-SR&SW	COOK	53	53
TS-07		CONTRACT NO. 62N81		
ILLINOIS		FED. AID PROJECT		

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PLOT SCALE = 100,0000' / in.	DRAWN -	REVISED -
PLOT DATE = 6/8/2022	CHECKED - R.K.F.	REVISED -
	DATE -	REVISED -