

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A,0105&0507)RS-4	COOK	39	1
		ILLINOIS	CONTRACT NO. 62D14	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

THIS PROJECT IS LOCATED IN THE VILLAGES OF BARRINGTON HILLS, HOFFMAN ESTATES, INVERNESS, PALATINE, AND SOUTH BARRINGTON

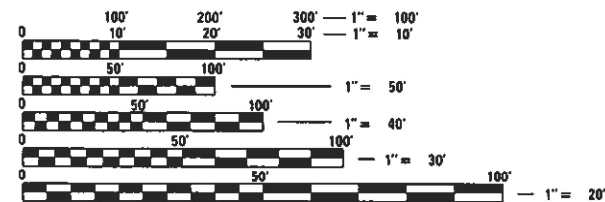
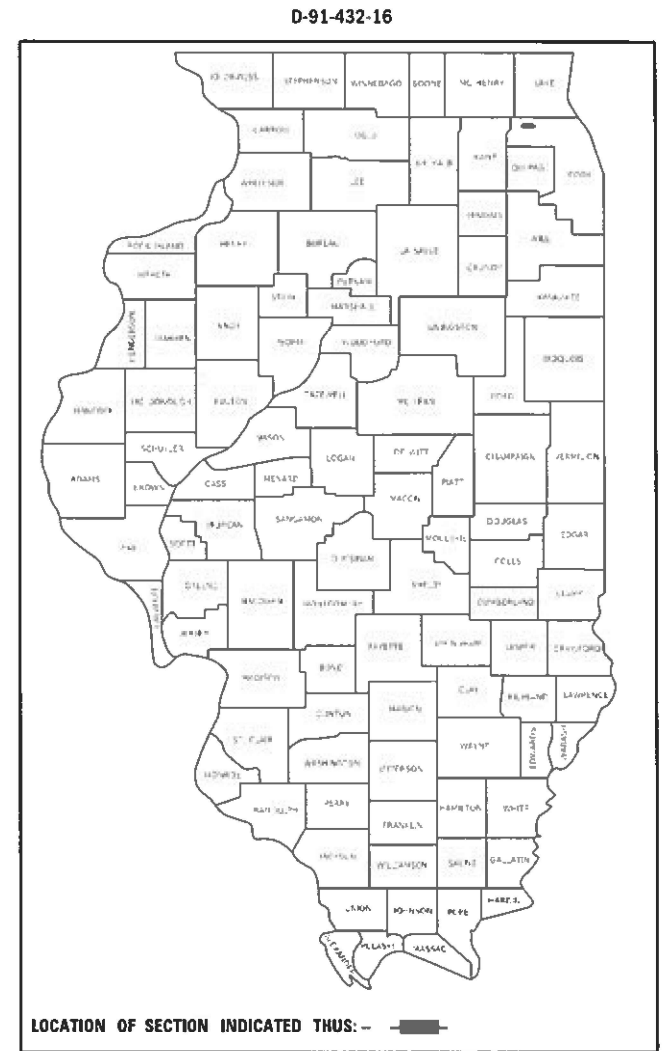
TRAFFIC DATA:
PALATINE ROAD
2018 ADT = 12,400
POSTED AND DESIGN SPEED LIMIT = 35-55 MPH

PROPOSED
HIGHWAY PLANS

F.A.U. ROUTE 1285 (PALATINE RD.)
IL 62 (ALGONQUIN RD.) TO E/O ROSELLE RD.
SECTION: (119A,0105&0507)RS-4

PROJECT: STP-8454(014)
SMART OVERLAY, MILLED RUMBLE STRIPS, AND ADA IMPROVEMENTS
COOK COUNTY

C-91-432-16

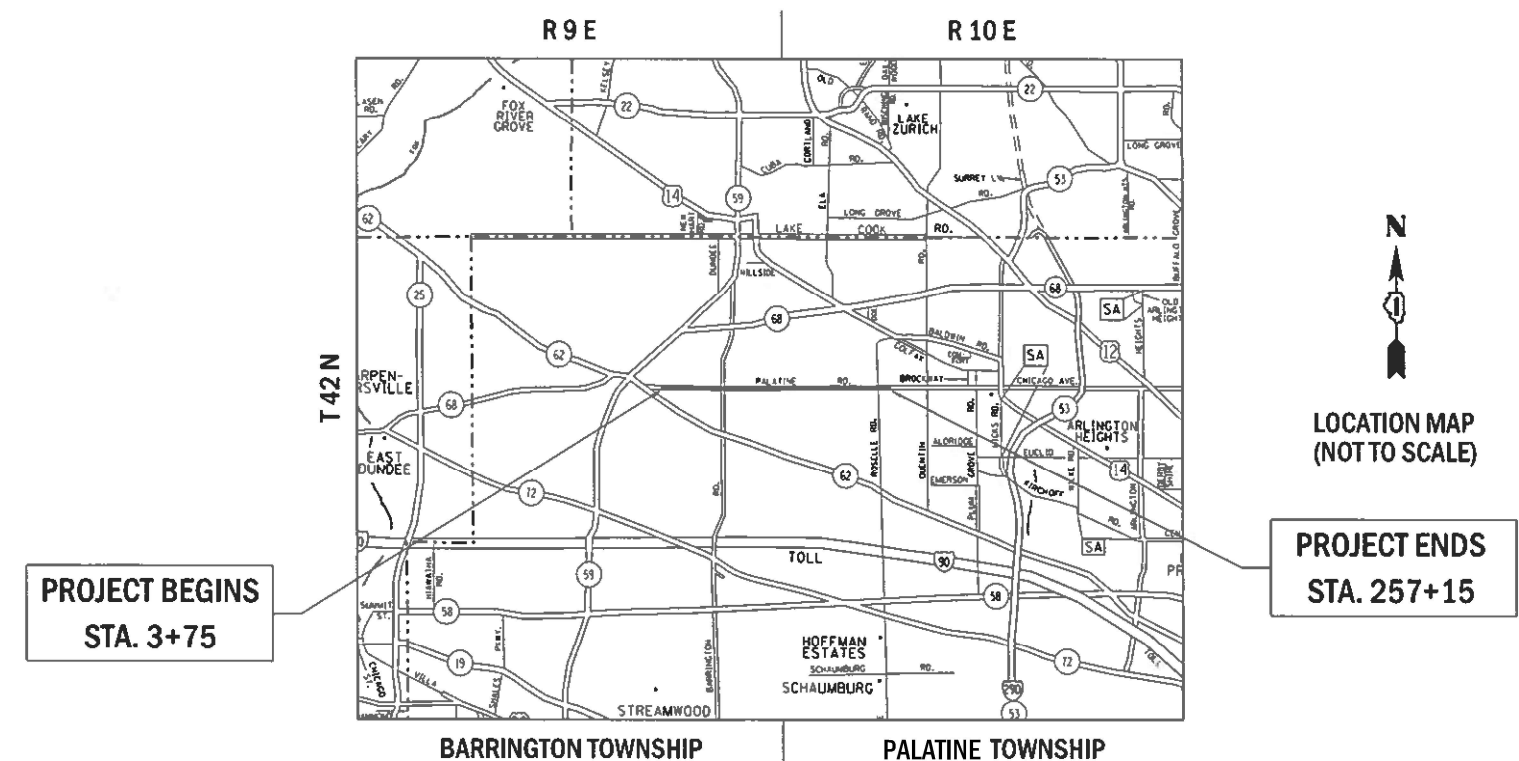


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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

PROJECT ENGINEER: DAN WILGREEN (847) 705-4240
PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 62D14



GROSS & NET LENGTH = 25,340 FT. = 4.80 MILES

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED December 9, 2020

Anthony J. Quigley REGIONAL ENGINEER
January 29, 2021

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

James J. Guerin
DIRECTOR OF HIGHWAYS PROJECT IMPLEMENTATION 13

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INDEX OF SHEETS

HIGHWAY STANDARDS

GENERAL NOTES

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
3-5	SUMMARY OF QUANTITIES
6-8	EXISTING AND PROPOSED TYPICAL SECTIONS
9-14	ROADWAY AND PAVEMENT MARKING PLAN
15	RUMBLE STRIPE DETAIL
16	SCHEDULE OF QUANTITIES FOR CURB RAMPS
17	CURB RAMP PLAN (THORNBARK DR.)
18-22	DETECTOR LOOP REPLACEMENT PLAN
23-25	PROJECT DETAILS FOR CURB RAMPS (PD-01, PD-03, AND PD-04)
26	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-8)
27	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
28	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
29	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
30	DETAILS FOR DEPRESSED CURB & GUTTER AND SHOULDER TREATMENT AT TBT TY 1 SPL (BD-34)
31	RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY (BD-55)
32	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
33	TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
34	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
35	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
36	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
37	ARTERIAL ROAD INFORMATION SIGN (TC-22)
38	STANDARD TRAFFIC SIGNAL DESIGN DETAILS (TS-05, SHEET 2 OF 7)
39	DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

STANDARD NO.	DESCRIPTION
000001-08	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424031-02	MEDIAN PEDESTRIAN CROSSINGS
442201-03	CLASS C AND D PATCHES
604001-05	FRAMES AND LIDS TYPE 1
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
606301-04	PC CONCRETE ISLANDS AND MEDIANS
630001-12	STEEL PLATE BEAM GUARDRAIL
635001-02	DELINEATORS
642006-01	SHOULDER RUMBLE STRIPS, 8 IN.
701001-02	OFF-RD OPERATIONS, 2L, 2W, MORE THAN 15' (4.5 m) AWAY
701006-05	OFF-RD OPERATIONS, 2L, 2W, 15' (4.5 m) TO 24" (600 mm) FROM PAVEMENT EDGE
701011-04	OFF-RD MOVING OPERATIONS 2L, 2W, DAY ONLY
701301-04	LANE CLOSURE 2L, 2W, SHORT TIME OPERATIONS
701306-04	LANE CLOSURE 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS >= 45 MPH
701311-03	LANE CLOSURE 2L, 2W, MOVING OPERATIONS DAY ONLY
701336-07	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES FOR SPEEDS >= 45 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-09	URBAN LANE CLOSURE 2L, 2W, W/ BIDIRECTIONAL LEFT TURN LANE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-08	TRAFFIC CONTROL DEVICES
725001-01	OBJECT AND TERMINAL MARKERS
780001-05	TYPICAL PAVEMENT MARKINGS
782006-01	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS
814001-03	HANDHOLES
886001-01	DETECTOR LOOP INSTALLATIONS

- 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 AND THE VILLAGES OF BARRINGTON HILLS, HOFFMAN ESTATES, INVERNESS, PALATINE, AND SOUTH BARRINGTON.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE ENGINEER.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTOR'S EXPENSE.
- ALL PAVEMENT PATCHING, CURB AND GUTTER REMOVAL AND REPLACEMENT, STRUCTURE ADJUSTMENTS, STRUCTURE/STORM SEWER TO BE CLEANED, GRADING AND SHAPING SHOULDERS, GRADING AND SHAPING DITCHES, AND GUARDRAIL LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES WHERE THE SPEED LIMIT IS 40 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 40 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 1:3 (V:H).
- THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR FOR ARTERIALS AT KALPANA.KANNAN-HOSADURGA@ILLINOIS.GOV A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE RESIDENT ENGINEER SHALL CONTACT THE AREA TRAFFIC FIELD ENGINEER, EMAD ALHUSSEINI, AT EMAD.ALHUSSEINI@ILLINOIS.GOV TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN IN THE PLANS.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- 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.
- UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE 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.
- 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.
- ALL FINAL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC (OF THE EXTRUDED TYPE) AND SHOULD BE PLACED IN ACCORDANCE WITH "DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)" STANDARD DETAIL.
- ALL RAISED REFLECTIVE PAVEMENT MARKERS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE "TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)" STANDARD DETAIL.
- PROPOSED SIDEWALK RAMPS SHALL CONFORM TO CURRENT ADA REQUIREMENTS AND APPLICABLE STATE HIGHWAY STANDARDS OR AS DETERMINED BY THE ENGINEER.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
PALATINE RD. - IL 62 (ALGONQUIN RD.) TO E/O ROSELLE RD.**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A,01056,0507)RS-4	COOK	39	2
				CONTRACT NO. 62D14
		ILLINOIS	FED. AID PROJECT	

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005	100% STATE 0005			
			URBAN					
20200100	EARTH EXCAVATION	CU YD	39	39				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	37	37				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	486	486				
21400100	GRADING AND SHAPING DITCHES	FOOT	500	500				
25000210	SEEDING, CLASS 2A	ACRE	0.05	0.05				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	7.3	7.3				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	7.3	7.3				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	7.3	7.3				
25100630	EROSION CONTROL BLANKET	SO YD	223	223				
25200110	SODDING, SALT TOLERANT	SO YD	263	263				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	48887	48887				
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	163	163				
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	526	526				
40604062	HOT-MIX ASPHALT SURFACE COURSE, IL-9.5, MIX "D", N70	TON	9126	9126				
* SPECIALTY ITEMS								

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005	100% STATE 0005			
			URBAN					
42001300	PROTECTIVE COAT	SO YD	631	631				
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	4419	4419				
42400800	DETECTABLE WARNINGS	SO FT	336	336				
44000155	HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2"	SO YD	108638	108638				
44000600	SIDEWALK REMOVAL	SO FT	4221	4221				
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SO YD	197	197				
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SO YD	20	20				
44201815	CLASS D PATCHES, TYPE II, 14 INCH	SO YD	355	355				
44201819	CLASS D PATCHES, TYPE III, 14 INCH	SO YD	149	149				
44201821	CLASS D PATCHES, TYPE IV, 14 INCH	SO YD	1547	1547				
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	640	640				
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	4	4				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	1	1				
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	6	6				

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005	100% STATE 0005			
			URBAN					
* 6300001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6 FOOT POSTS	FOOT	137.5	137.5				
* 63100167	TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT	EACH	2	2				
63200310	GUARDRAIL REMOVAL	FOOT	187.5	187.5				
64200108	SHOULDER RUMBLE STRIPS, 8 INCH	FOOT	14387	14387				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	76	76				
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1				
* 66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION PLAN	LSUM	1	1				
* 66901003	REGULATED SUBSTANCES FINAL CONSTRUCTION REPORT	LSUM	1	1				
* 66901006	REGULATED SUBSTANCES MONITORING	CAL DA	5	5				
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	12	12				
67100100	MOBILIZATION	L SUM	1	1				
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	L SUM	1	1				
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	L SUM	1	1				

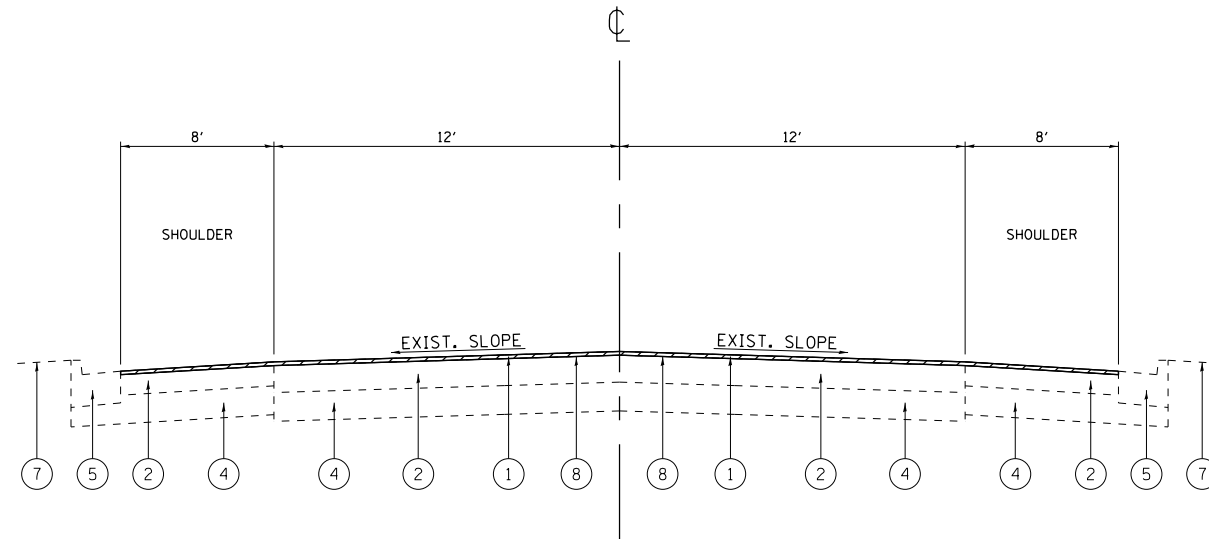
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			URBAN					
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1				
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	L SUM	1	1				
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1				
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	L SUM	1	1				
70300100	SHORT TERM PAVEMENT MARKING	FOOT	23146	23146				
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	7716	7716				
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	1404	1404				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	95351	95351				
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	5543	5543				
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1117	1117				
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	887	887				
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	11573	11573				
* 72501000	TERMINAL MARKER - DIRECT APPLIED	EACH	2	2				

* SPECIALTY ITEMS

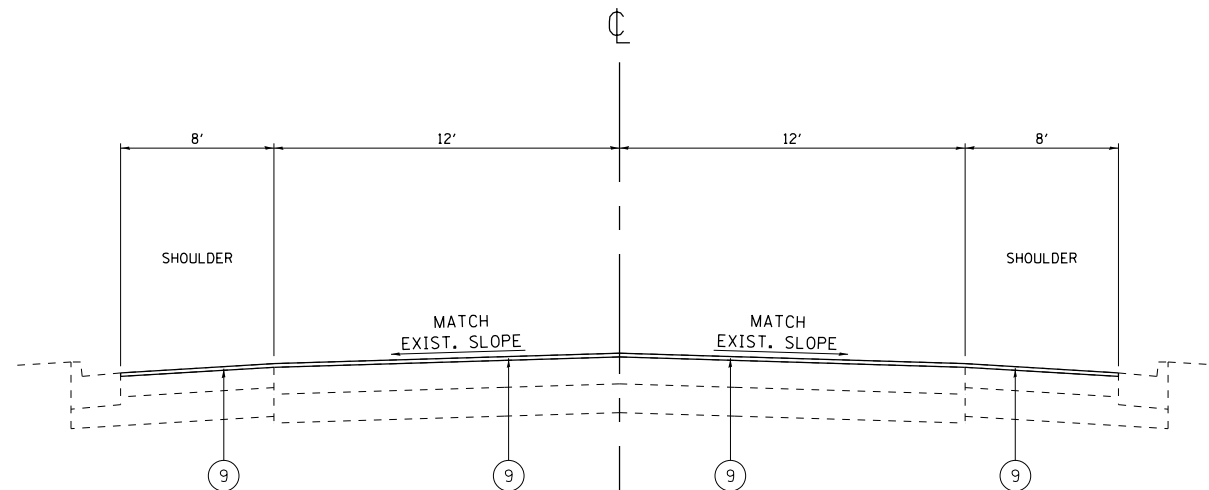
SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005	100% STATE 0005				
			URBAN						
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SO FT	1404	1404					
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	75224	75224					
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	5543	5543					
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1117	1117					
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	887	887					
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	1075	1075					
* 78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	10	10					
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	1062	1062					
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3	3					
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	2975	2975					
* 89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	10	10					
* 89502376	REBUILD EXISTING HANDHOLE	EACH	5	5					
X0320050	CONSTRUCTION LAYOUT (SPECIAL)	L SUM	1	1					
X0326898	CENTER LINE - RUMBLE STRIP - 16"	FOOT	6890	6890					

SUMMARY OF QUANTITIES			CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE 0005	100% STATE 0005				
			URBAN						
X2020110	GRADING AND SHAPING SHOULDERS	UNIT	256	256					
X4400501	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT LESS THAN OR EQUAL TO 10 FEET	FOOT	188	188					
X4402020	CONCRETE MEDIAN SURFACE REMOVAL	SO FT	61	61					
X5537900	STORM SEWERS TO BE CLEANED 15"	FOOT	275		275				
X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	8	8					
X6061311	CONCRETE MEDIAN SURFACE, 5 INCH	SO FT	66	66					
X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	SO FT	42708	42708					
* X7800815	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 4 INCH	FOOT	20127	20127					
Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	397	397					
Z0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	14		14				
Z0030850	TEMPORARY INFORMATION SIGNING	SO FT	51.4	51.4					
Z0033700	LONGITUDINAL JOINT SEALANT	FOOT	45842	45842					
Z0076600	TRAINEES	HOURS	500	500					Ø 0042
Z0076604	TRAINEES - TRAINING PROGRAM GRADUATE	HOURS	500	500					

REV-SEP



PALATINE RD.
EXISTING TYPICAL SECTION
 STA. 3+75 TO STA. 6+75



PALATINE RD.
PROPOSED TYPICAL SECTION
 STA. 3+75 TO STA. 6+75

LEGEND:

- ① EXISTING HMA SURFACE COURSE, ± 1½" TO 2"
- ② EXISTING HMA BASE/BINDER COURSE, ± 5½" TO 12"
- ③ EXISTING AGGREGATE SHOULDER, ± 6" TO 8"
- ④ EXISTING AGGREGATE SUBGRADE, ± 6" TO 12"
- ⑤ EXISTING COMB. CONC. CURB AND GUTTER, TYPE B-6.24
- ⑥ EXISTING SUBBASE GRANULAR MATERIAL, ± 6"
- ⑦ EXISTING SOD
- ⑧ PROPOSED HMA SURFACE REMOVAL, 1½"
- ⑨ PROPOSED HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1½"
- ⑩ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑪ PROPOSED GRADING AND SHAPING SHOULDERS
- ⑫ PROPOSED CENTER LINE - RUMBLE STRIP - 16"
- ⑬ PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH

NOTES:

1. THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.
2. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.

HMA MIXTURE REQUIREMENTS			
MIXTURE USES	MIXTURE TYPE	AIR VOIDS @ Ndes	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT AND SHOULDER RESURFACING	HMA SURFACE COURSE, MIX "D", IL-9.5, N70; 1½"	4% @ 70 GYR.	PFP
PATCHING	CLASS D PATCHES (HMA BINDER IL-19.0 mm)	4% @ 70 GYR	QC/QA
QMP DESIGNATION: PAY FOR PERFORMANCE (PFP), QUALITY CONTROL/QUALITY ASSURANCE (QC/QA)			

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

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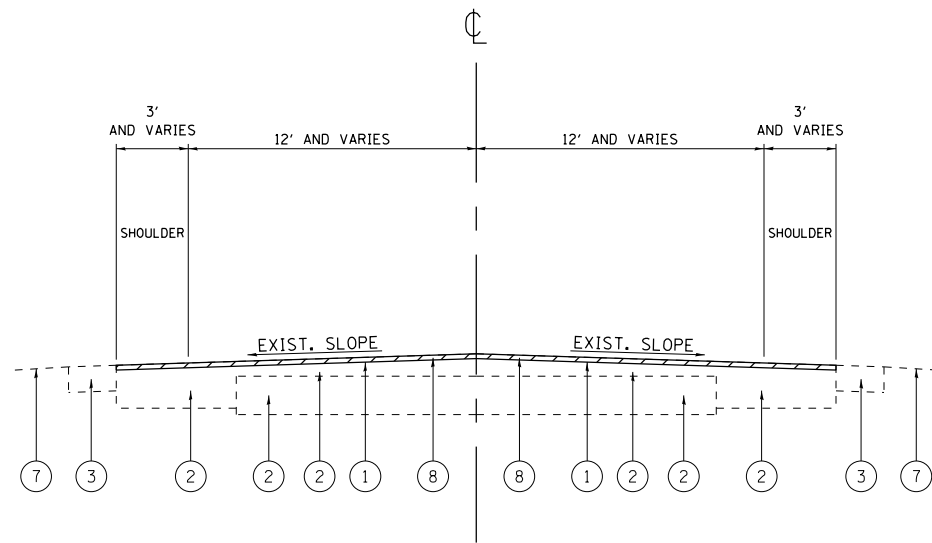
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

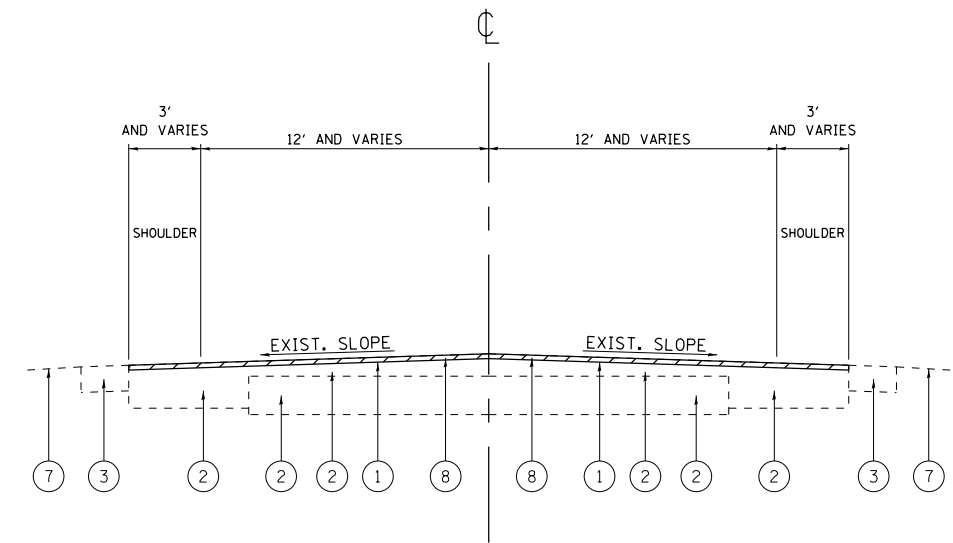
**EXISTING AND PROPOSED TYPICAL SECTIONS
 PALATINE RD. - IL 62 (ALGONQUIN RD.) TO E/O ROSELLE RD.**

SCALE: SHEET OF SHEETS STA. TO STA.

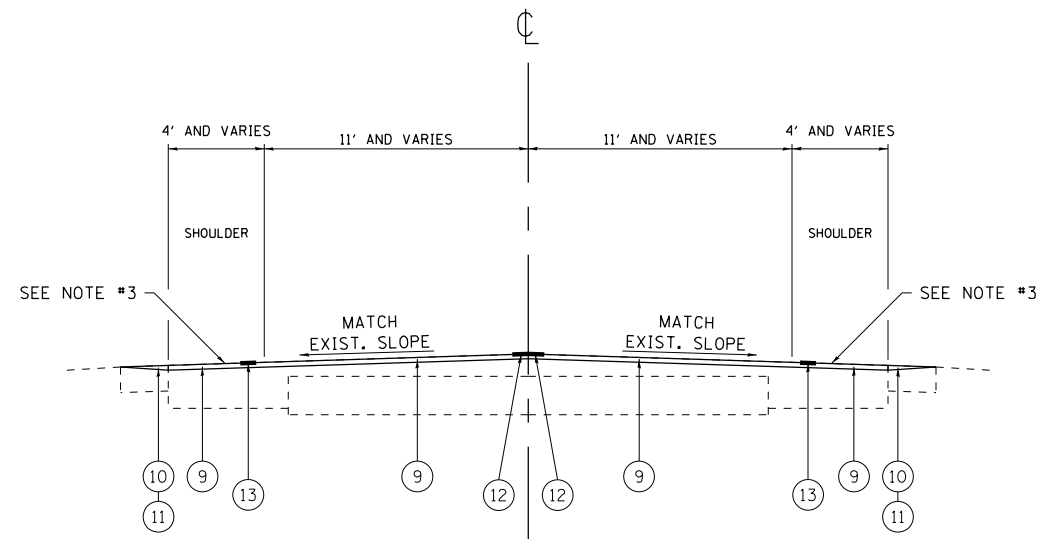
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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CONTRACT NO. 62D14				
ILLINOIS		FED. AID PROJECT		



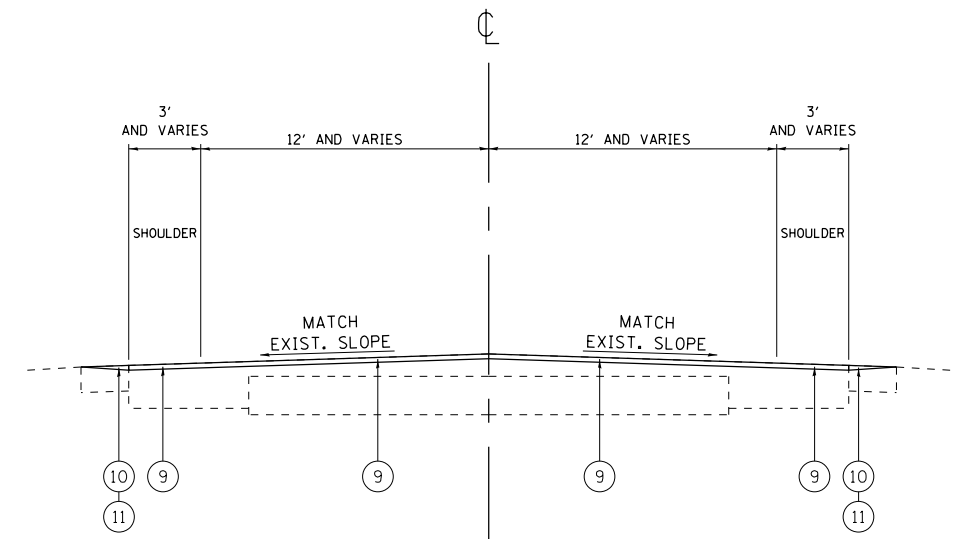
PALATINE RD.
EXISTING TYPICAL SECTION
 STA. 6+75 TO STA. 80+38



PALATINE RD.
EXISTING TYPICAL SECTION
 STA. 80+38 TO STA. 129+88
 STA. 185+82 TO STA. 257+15



PALATINE RD.
PROPOSED TYPICAL SECTION
 STA. 6+75 TO STA. 80+38



PALATINE RD.
PROPOSED TYPICAL SECTION
 STA. 80+38 TO STA. 129+88
 STA. 185+82 TO STA. 257+15

LEGEND:

- ① EXISTING HMA SURFACE COURSE, ± 1½" TO 2"
- ② EXISTING HMA BASE/BINDER COURSE, ± 5½" TO 12"
- ③ EXISTING AGGREGATE SHOULDER, ± 6" TO 8"
- ④ EXISTING AGGREGATE SUBGRADE, ± 6" TO 12"
- ⑤ EXISTING COMB. CONC. CURB AND GUTTER, TYPE B-6.24
- ⑥ EXISTING SUBBASE GRANULAR MATERIAL, ± 6"
- ⑦ EXISTING SOD
- ⑧ PROPOSED HMA SURFACE REMOVAL, 1½"
- ⑨ PROPOSED HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1½"
- ⑩ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑪ PROPOSED GRADING AND SHAPING SHOULDERS
- ⑫ PROPOSED CENTER LINE - RUMBLE STRIP - 16"
- ⑬ PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH

NOTES:

1. THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.
2. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.
3. MAINTAIN A MINIMUM OF 3' SHOULDER WIDTH OUTSIDE SHOULDER RUMBLE STRIP. SEE RUMBLE STRIPE DETAIL.

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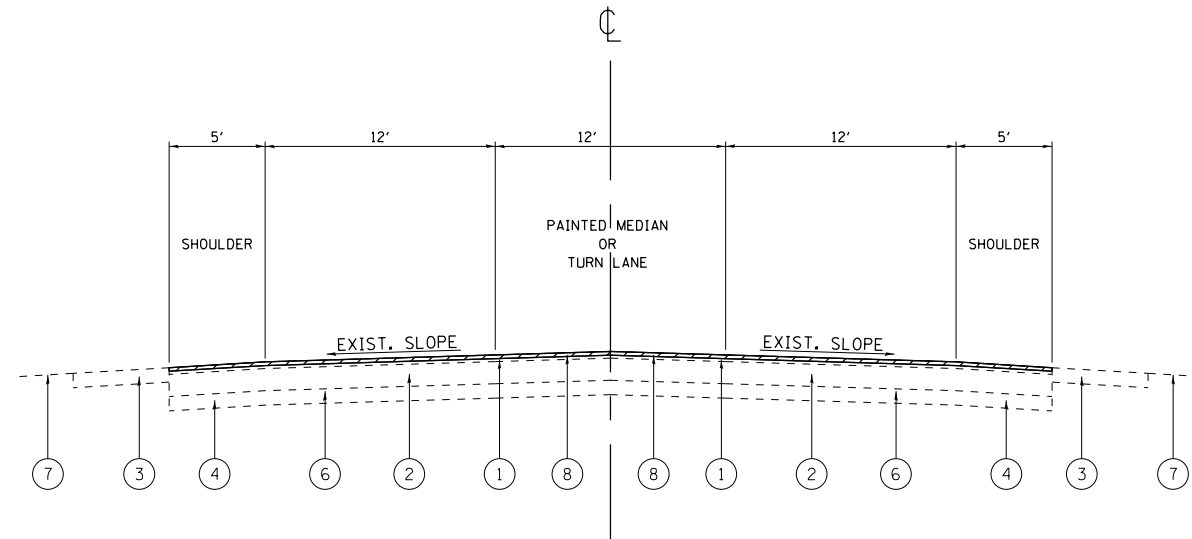
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**EXISTING AND PROPOSED TYPICAL SECTIONS
 PALATINE RD. - IL 62 (ALGONQUIN RD.) TO E/O ROSELLE RD.**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A,0105&0507)RS-4	COOK	39	7
CONTRACT NO. 62D14				
ILLINOIS FED. AID PROJECT				



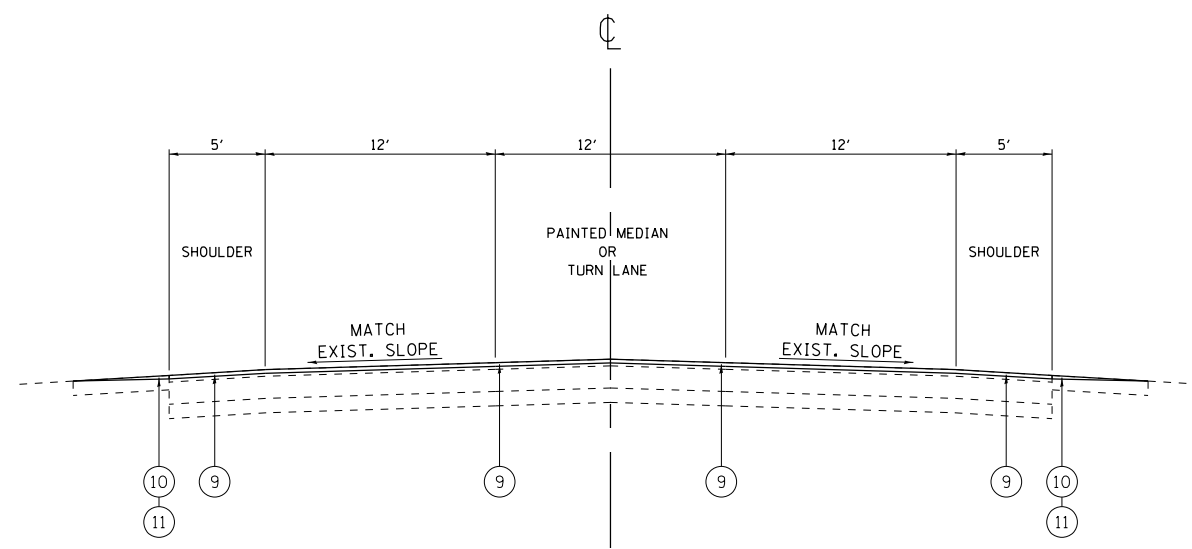
PALATINE RD.
EXISTING TYPICAL SECTION
 STA. 129+88 TO STA. 185+82

LEGEND:

- ① EXISTING HMA SURFACE COURSE, ± 1½" TO 2"
- ② EXISTING HMA BASE/BINDER COURSE, ± 5½" TO 12"
- ③ EXISTING AGGREGATE SHOULDER, ± 6" TO 8"
- ④ EXISTING AGGREGATE SUBGRADE, ± 6" TO 12"
- ⑤ EXISTING COMB. CONC. CURB AND GUTTER, TYPE B-6.24
- ⑥ EXISTING SUBBASE GRANULAR MATERIAL, ± 6"
- ⑦ EXISTING SOD
- ⑧ PROPOSED HMA SURFACE REMOVAL, 1½"
- ⑨ PROPOSED HMA SURFACE COURSE, MIX "D", IL-9.5, N70, 1½"
- ⑩ PROPOSED AGGREGATE WEDGE SHOULDER, TYPE B
- ⑪ PROPOSED GRADING AND SHAPING SHOULDERS
- ⑫ PROPOSED CENTER LINE - RUMBLE STRIP - 16"
- ⑬ PROPOSED SHOULDER RUMBLE STRIPS, 8 INCH

NOTES:

1. THE CONTRACTOR SHALL MILL FIRST BEFORE PATCHING.
2. THE LONGITUDINAL JOINT SEALANT SHALL BE PLACED OVER THE MILLED SURFACE.



PALATINE RD.
PROPOSED TYPICAL SECTION
 STA. 129+88 TO STA. 185+82

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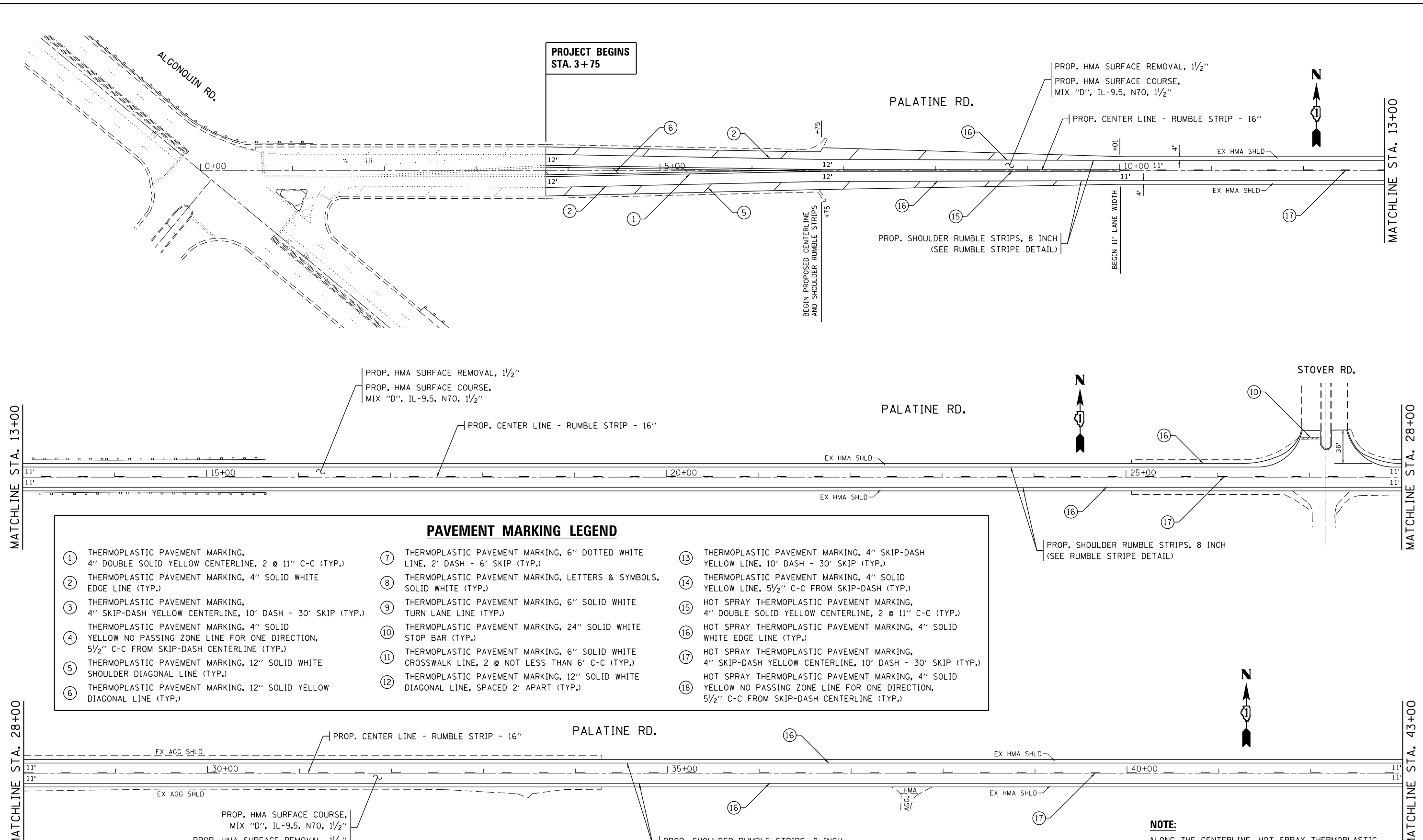
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

EXISTING AND PROPOSED TYPICAL SECTIONS
PALATINE RD. - IL 62 (ALGONQUIN RD.) TO E/O ROSELLE RD.

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A,0105&0507)RS-4	COOK	39	8
				CONTRACT NO. 62D14
		ILLINOIS	FED. AID PROJECT	

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PAVEMENT MARKING LEGEND			
①	THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.)	⑬	THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW LINE, 10' DASH - 30' SKIP (TYP.)
②	THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)	⑭	THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW LINE, 5 1/2" C-C FROM SKIP-DASH (TYP.)
③	THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW CENTERLINE, 10' DASH - 30' SKIP (TYP.)	⑮	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.)
④	THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW NO PASSING ZONE LINE FOR ONE DIRECTION, 5 1/2" C-C FROM SKIP-DASH CENTERLINE (TYP.)	⑯	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)
⑤	THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE SHOULDER DIAGONAL LINE (TYP.)	⑰	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW CENTERLINE, 10' DASH - 30' SKIP (TYP.)
⑥	THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW DIAGONAL LINE (TYP.)	⑱	HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW NO PASSING ZONE LINE FOR ONE DIRECTION, 5 1/2" C-C FROM SKIP-DASH CENTERLINE (TYP.)
⑦	THERMOPLASTIC PAVEMENT MARKING, 6" DOTTED WHITE LINE, 2' DASH - 6' SKIP (TYP.)		
⑧	THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS, SOLID WHITE (TYP.)		
⑨	THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE LINE (TYP.)		
⑩	THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)		
⑪	THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE, 2 @ NOT LESS THAN 6' C-C (TYP.)		
⑫	THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE DIAGONAL LINE, SPACED 2' APART (TYP.)		

NOTE:
 ALONG THE CENTERLINE, HOT SPRAY THERMOPLASTIC PAVEMENT MARKING SHALL BE PLACED FROM STA. 6+75 TO STA. 75+65. ALONG THE EDGELINES, HOT SPRAY THERMOPLASTIC PAVEMENT MARKING SHALL BE PLACED FROM STA. 6+75 TO STA. 79+81. ALL PROPOSED PAVEMENT MARKINGS OUTSIDE THESE LOCATIONS SHALL BE PROPOSED THERMOPLASTIC PAVEMENT MARKING.

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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY AND PAVEMENT MARKING PLAN
 PALATINE RD. - IL 62 (ALGONQUIN RD.) TO E/O ROSELLE RD.**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A,01056,0507)RS-4	COOK	39	9
CONTRACT NO. 62D14				
ILLINOIS		FED. AID PROJECT		

MATCHLINE STA. 43+00

MATCHLINE STA. 58+00

MATCHLINE STA. 58+00

MATCHLINE STA. 73+00

MATCHLINE STA. 73+00

MATCHLINE STA. 88+00

PROP. HMA SURFACE REMOVAL, 1 1/2"
PROP. HMA SURFACE COURSE,
MIX "D", IL-9.5, N70, 1 1/2"

PALATINE RD.

PROP. CENTER LINE - RUMBLE STRIP - 16"

EX HMA SHLD

EX AGG SHLD

PAVEMENT MARKING LEGEND		
① THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.)	⑦ THERMOPLASTIC PAVEMENT MARKING, 6" DOTTED WHITE LINE, 2' DASH - 6' SKIP (TYP.)	⑬ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW LINE, 10' DASH - 30' SKIP (TYP.)
② THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)	⑧ THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS, SOLID WHITE (TYP.)	⑭ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW LINE, 5 1/2" C-C FROM SKIP-DASH (TYP.)
③ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW CENTERLINE, 10' DASH - 30' SKIP (TYP.)	⑨ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE LINE (TYP.)	⑮ HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.)
④ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW NO PASSING ZONE LINE FOR ONE DIRECTION, 5 1/2" C-C FROM SKIP-DASH CENTERLINE (TYP.)	⑩ THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)	⑯ HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)
⑤ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE SHOULDER DIAGONAL LINE (TYP.)	⑪ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE, 2 @ NOT LESS THAN 6' C-C (TYP.)	⑰ HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW CENTERLINE, 10' DASH - 30' SKIP (TYP.)
⑥ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW DIAGONAL LINE (TYP.)	⑫ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE DIAGONAL LINE, SPACED 2' APART (TYP.)	⑱ HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW NO PASSING ZONE LINE FOR ONE DIRECTION, 5 1/2" C-C FROM SKIP-DASH CENTERLINE (TYP.)

PROP. SHOULDER RUMBLE STRIPS, 8 INCH
(SEE RUMBLE STRIPE DETAIL)

PROP. HMA SURFACE REMOVAL, 1 1/2"
PROP. HMA SURFACE COURSE,
MIX "D", IL-9.5, N70, 1 1/2"

PALATINE RD.

PROP. CENTER LINE - RUMBLE STRIP - 16"

EX AGG SHLD

EX HMA SHLD

PROP. SHOULDER RUMBLE STRIPS, 8 INCH
(SEE RUMBLE STRIPE DETAIL)

PROP. GUARDRAIL REMOVAL
PROP. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
(INSTALL TWO (2) TERMINALS IN SUCCESSION)
PROP. TERMINAL MARKER - DIRECT APPLIED
PROP. GUARDRAIL REFLECTORS, TYPE A

BARRINGTON RD.

PALATINE RD.

PROP. CENTER LINE - RUMBLE STRIP - 16"

REBUILD EXISTING HANDHOLE

PROP. CLASS D PATCHES, TYPE IV, 14 INCH
(AT LOCATIONS OF RUTTING)

PROP. HMA SURFACE REMOVAL, 1 1/2"
PROP. HMA SURFACE COURSE,
MIX "D", IL-9.5, N70, 1 1/2"

PROP. GUARDRAIL REMOVAL
PROP. TRAFFIC BARRIER TERMINAL, TYPE 1 (SPECIAL) TANGENT
(INSTALL TWO (2) TERMINALS IN SUCCESSION)
PROP. TERMINAL MARKER - DIRECT APPLIED
PROP. GUARDRAIL REFLECTORS, TYPE A

END PROPOSED
CENTERLINE
RUMBLE STRIPS

PROP. SHOULDER RUMBLE STRIPS, 8 INCH
(SEE RUMBLE STRIPE DETAIL)

END PROPOSED
SHOULDER RUMBLE STRIPS
AND 1' LANE WIDTH

GRADING AND SHAPING DITCHES
REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL
TOPSOIL FURNISH AND PLACE, 4"
NITROGEN FERTILIZER NUTRIENT
PHOSPHORUS FERTILIZER NUTRIENT
POTASSIUM FERTILIZER NUTRIENT
SEEDING, CLASS 2A
EROSION CONTROL BLANKET

PROP. CLASS D PATCHES, TYPE IV, 14 INCH
(AT LOCATIONS OF RUTTING)

NOTE:
ALONG THE CENTERLINE, HOT SPRAY THERMOPLASTIC PAVEMENT MARKING SHALL BE PLACED FROM STA. 6+75 TO STA. 75+65. ALONG THE EDGELINES, HOT SPRAY THERMOPLASTIC PAVEMENT MARKING SHALL BE PLACED FROM STA. 6+75 TO STA. 79+81. ALL PROPOSED PAVEMENT MARKINGS OUTSIDE THESE LOCATIONS SHALL BE PROPOSED THERMOPLASTIC PAVEMENT MARKING.

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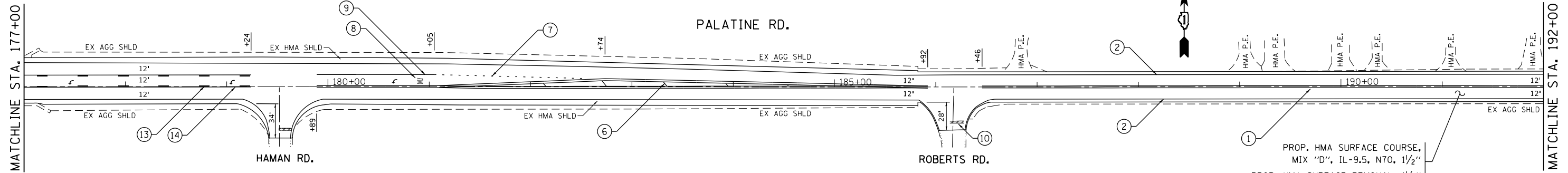
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

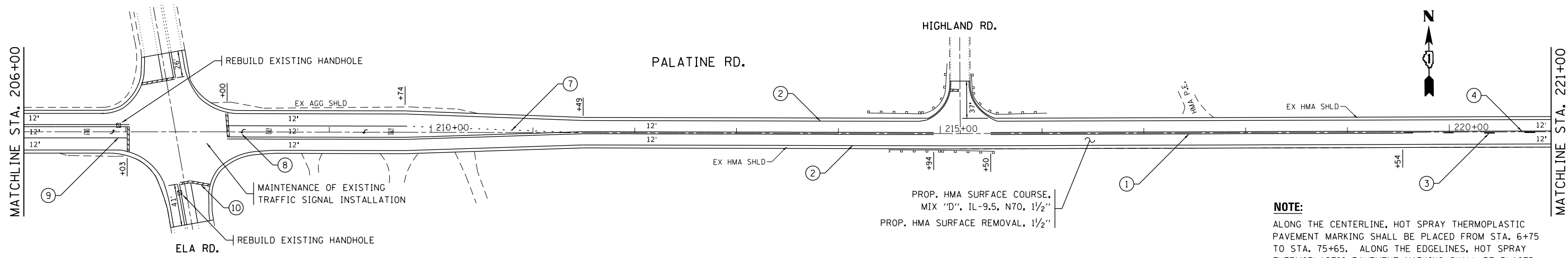
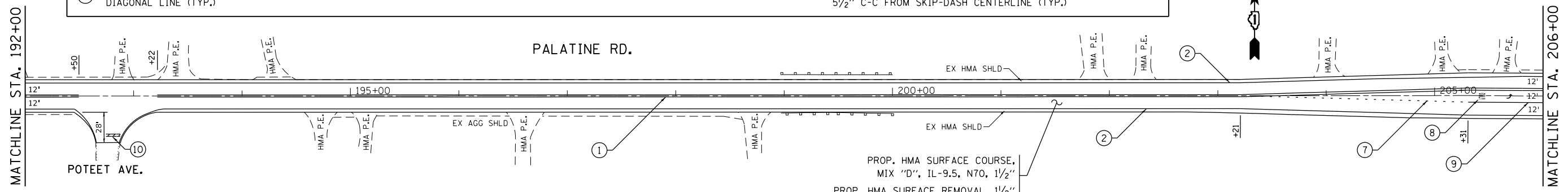
ROADWAY AND PAVEMENT MARKING PLAN
PALATINE RD. - IL 62 (ALGONQUIN RD.) TO E/O ROSELLE RD.

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A,0105&0507)RS-4	COOK	39	10
CONTRACT NO. 62D14				
ILLINOIS		FED. AID PROJECT		



PAVEMENT MARKING LEGEND		
① THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.)	⑦ THERMOPLASTIC PAVEMENT MARKING, 6" DOTTED WHITE LINE, 2' DASH - 6' SKIP (TYP.)	⑬ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW LINE, 10' DASH - 30' SKIP (TYP.)
② THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)	⑧ THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS, SOLID WHITE (TYP.)	⑭ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW LINE, 5 1/2" C-C FROM SKIP-DASH (TYP.)
③ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW CENTERLINE, 10' DASH - 30' SKIP (TYP.)	⑨ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE LINE (TYP.)	⑮ HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.)
④ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW NO PASSING ZONE LINE FOR ONE DIRECTION, 5 1/2" C-C FROM SKIP-DASH CENTERLINE (TYP.)	⑩ THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)	⑯ HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)
⑤ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE SHOULDER DIAGONAL LINE (TYP.)	⑪ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE, 2 @ NOT LESS THAN 6' C-C (TYP.)	⑰ HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW CENTERLINE, 10' DASH - 30' SKIP (TYP.)
⑥ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW DIAGONAL LINE (TYP.)	⑫ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE DIAGONAL LINE, SPACED 2' APART (TYP.)	⑱ HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW NO PASSING ZONE LINE FOR ONE DIRECTION, 5 1/2" C-C FROM SKIP-DASH CENTERLINE (TYP.)



NOTE:
 ALONG THE CENTERLINE, HOT SPRAY THERMOPLASTIC PAVEMENT MARKING SHALL BE PLACED FROM STA. 6+75 TO STA. 75+65. ALONG THE EDGELINES, HOT SPRAY THERMOPLASTIC PAVEMENT MARKING SHALL BE PLACED FROM STA. 6+75 TO STA. 79+81. ALL PROPOSED PAVEMENT MARKINGS OUTSIDE THESE LOCATIONS SHALL BE PROPOSED THERMOPLASTIC PAVEMENT MARKING.

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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY AND PAVEMENT MARKING PLAN PALATINE RD. - IL 62 (ALGONQUIN RD.) TO E/O ROSELLE RD.				
SCALE:	SHEET	OF	SHEETS	STA. TO STA.

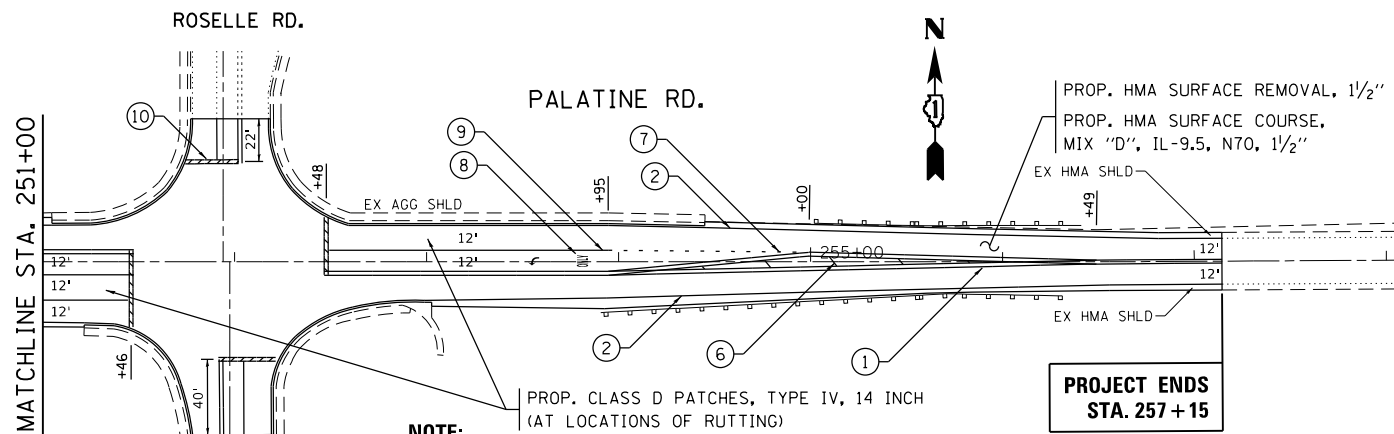
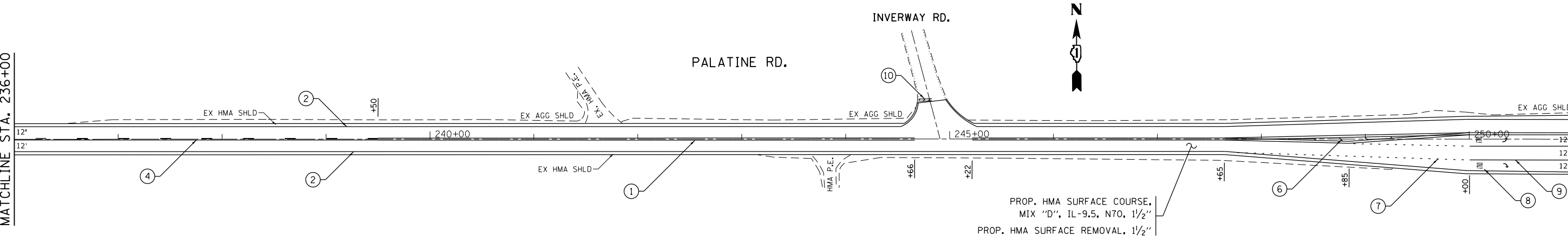
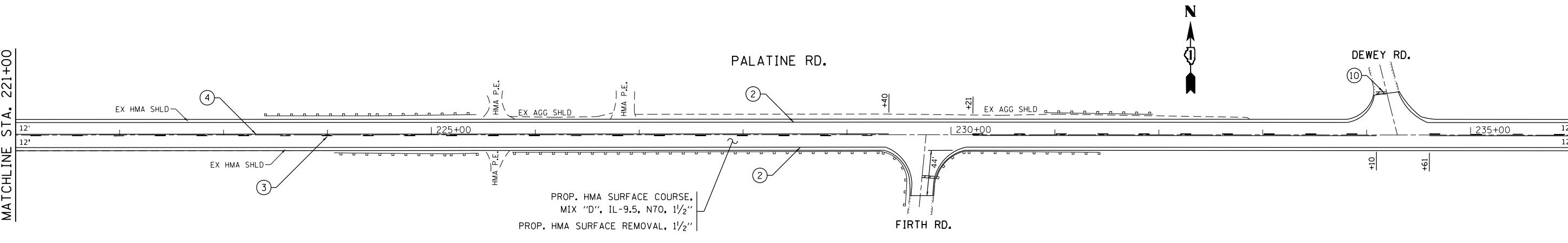
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A,01056,0507)RS-4	COOK	39	13
CONTRACT NO. 62D14				
ILLINOIS FED. AID PROJECT				

MATCHLINE STA. 221+00

MATCHLINE STA. 236+00

MATCHLINE STA. 236+00

MATCHLINE STA. 251+00



NOTE:
 ALONG THE CENTERLINE, HOT SPRAY THERMOPLASTIC PAVEMENT MARKING SHALL BE PLACED FROM STA. 6+75 TO STA. 6+75. ALONG THE EDGLINES, HOT SPRAY THERMOPLASTIC PAVEMENT MARKING SHALL BE PLACED FROM STA. 6+75 TO STA. 79+81. ALL PROPOSED PAVEMENT MARKINGS OUTSIDE THESE LOCATIONS SHALL BE PROPOSED THERMOPLASTIC PAVEMENT MARKING.

**PROJECT ENDS
 STA. 257+15**

PAVEMENT MARKING LEGEND

- ① THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.)
- ② THERMOPLASTIC PAVEMENT MARKING, 4" SOLID WHITE EDGE LINE (TYP.)
- ③ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW CENTERLINE, 10' DASH - 30' SKIP (TYP.)
- ④ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW NO PASSING ZONE LINE FOR ONE DIRECTION, 5 1/2" C-C FROM SKIP-DASH CENTERLINE (TYP.)
- ⑤ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE SHOULDER DIAGONAL LINE (TYP.)
- ⑥ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID YELLOW DIAGONAL LINE (TYP.)
- ⑦ THERMOPLASTIC PAVEMENT MARKING, 6" DOTTED WHITE LINE, 2' DASH - 6' SKIP (TYP.)
- ⑧ THERMOPLASTIC PAVEMENT MARKING, LETTERS & SYMBOLS, SOLID WHITE (TYP.)
- ⑨ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE TURN LANE LINE (TYP.)
- ⑩ THERMOPLASTIC PAVEMENT MARKING, 24" SOLID WHITE STOP BAR (TYP.)
- ⑪ THERMOPLASTIC PAVEMENT MARKING, 6" SOLID WHITE CROSSWALK LINE, 2 @ NOT LESS THAN 6' C-C (TYP.)
- ⑫ THERMOPLASTIC PAVEMENT MARKING, 12" SOLID WHITE DIAGONAL LINE, SPACED 2' APART (TYP.)
- ⑬ THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW LINE, 10' DASH - 30' SKIP (TYP.)
- ⑭ THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW LINE, 5 1/2" C-C FROM SKIP-DASH (TYP.)
- ⑮ HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" DOUBLE SOLID YELLOW CENTERLINE, 2 @ 11" C-C (TYP.)
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- ⑰ HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" SKIP-DASH YELLOW CENTERLINE, 10' DASH - 30' SKIP (TYP.)
- ⑱ HOT SPRAY THERMOPLASTIC PAVEMENT MARKING, 4" SOLID YELLOW NO PASSING ZONE LINE FOR ONE DIRECTION, 5 1/2" C-C FROM SKIP-DASH CENTERLINE (TYP.)

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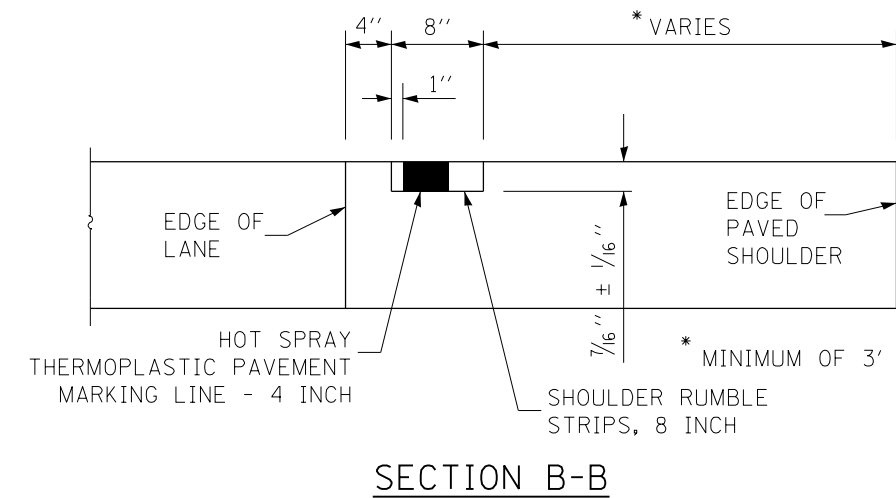
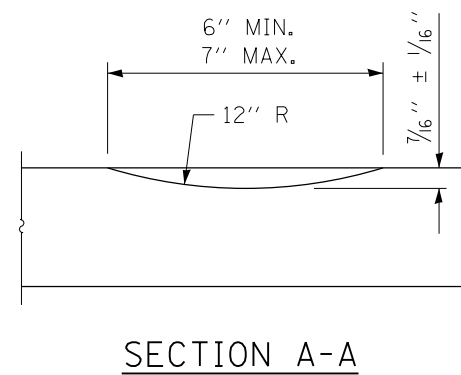
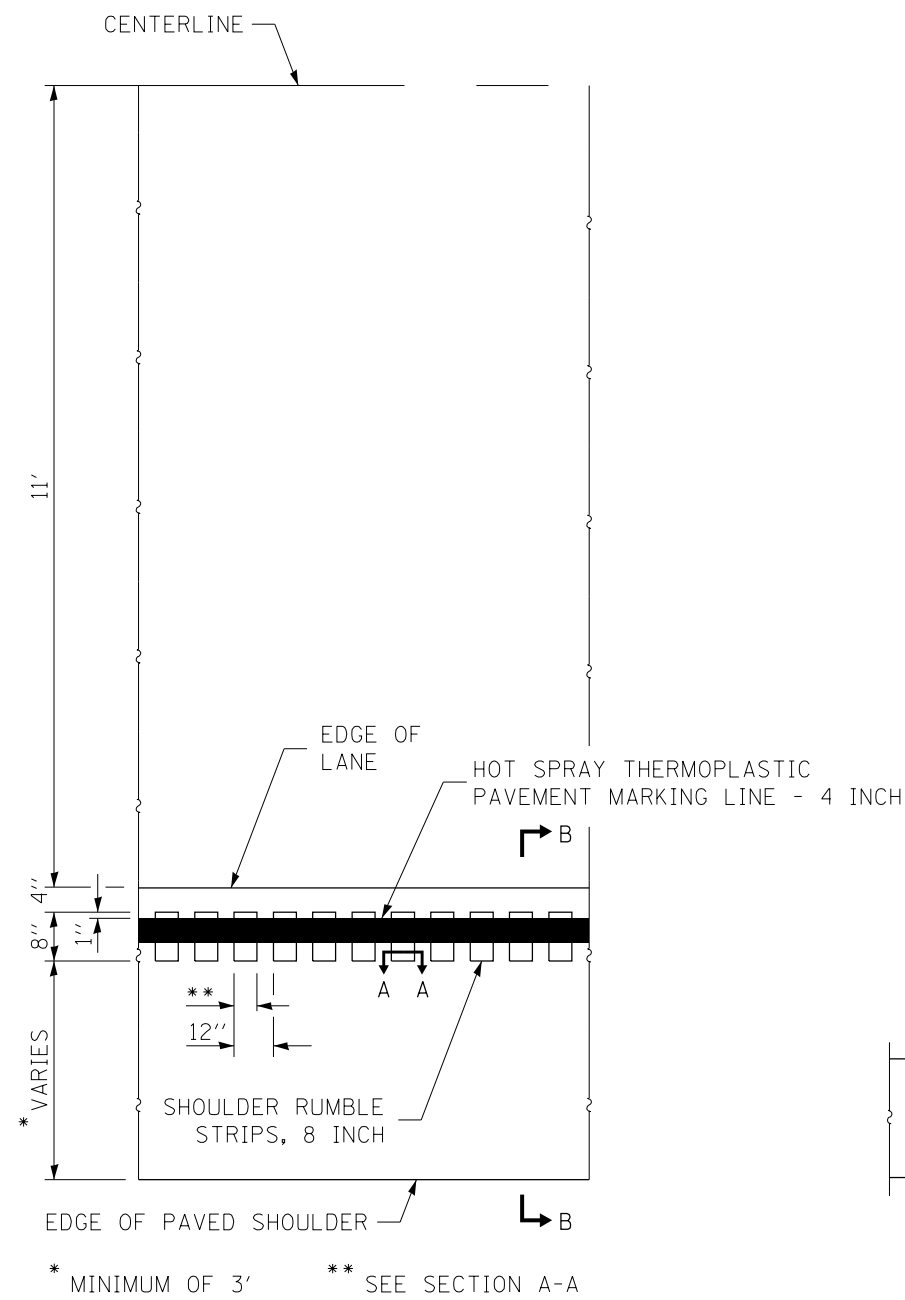
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ROADWAY AND PAVEMENT MARKING PLAN
 PALATINE RD. - IL 62 (ALGONQUIN RD.) TO E/O ROSELLE RD.**

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A,01056,0507)RS-4	COOK	39	14
CONTRACT NO. 62D14				
ILLINOIS FED. AID PROJECT				

SCALE: SHEET OF SHEETS STA. TO STA.



NOTES:

- REFER TO HIGHWAY STANDARD 642006 FOR ADDITIONAL DETAILS.
- SHOULDER RUMBLE STRIPES SHALL BE PAID FOR AS SHOULDER RUMBLE STRIPS, 8 INCH AND HOT SPRAY THERMOPLASTIC PAVEMENT MARKING LINE - 4 INCH.
- OMIT SHOULDER RUMBLE STRIPS ACROSS STRUCTURES AND AT MAILBOX TURNOUTS.

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**RUMBLE STRIPE DETAIL
PALATINE RD. - IL 62 (ALGONQUIN RD.) TO E/O ROSELLE RD.**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A,0105&0507)RS-4	COOK	39	15
				CONTRACT NO. 62D14
				ILLINOIS FED. AID PROJECT

PALATINE RD. INTERSECTION	EARTH EXCAVATION	TOPSOIL FURNISH AND PLACE, 4"	NITROGEN FERTILIZER NUTRIENT	PHOSPHORUS FERTILIZER NUTRIENT	POTASSIUM FERTILIZER NUTRIENT	SODDING, SALT TOLERANT	PROTECTIVE COAT	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNINGS	SIDEWALK REMOVAL	CLASS D PATCHES, TYPE II, 10 INCH	CLASS D PATCHES, TYPE III, 10 INCH	FRAMES AND GRATES TO BE ADJUSTED	FRAMES AND LIDS TO BE ADJUSTED	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	RELOCATE EXISTING PEDESTRIAN PUSHBUTTON	REBUILD EXISTING HANDHOLE	CONCRETE MEDIAN SURFACE REMOVAL	CONCRETE MEDIAN SURFACE, 5 INCH	DRAINAGE STRUCTURES TO BE CLEANED	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
	CU YD	SQ YD	POUND	POUND	POUND	SQ YD	SQ YD	SQ FT	SQ FT	SQ FT	SQ YD	SQ YD	EACH	EACH	EACH	EACH	EACH	SQ FT	SQ FT	EACH	FOOT
	20200100	21101615	25000400	25000500	25000600	25200110	42001300	42400200	42400800	44000600	44201765	44201769	60300105	60300305	85000200	89500400	89502376	X4402020	X6061311	Z0018500	Z0004562
HUNTINGTON BLVD.	0.9	7	0.1	0.1	0.1	7	18	130	20	145	7	0	0	0	0	2	0	0	0	0	14
CASTAWAY LN.	7.5	51	0.7	0.7	0.7	51	132	1086	68	1050	23	0	2	0	0	0	0	0	0	2	51
BURNHAM DR.	8.4	31	0.4	0.4	0.4	31	104	860	40	832	17	0	0	1	0	0	0	0	0	0	37
CHAMBERS DR./COMMERCIAL ENTR.	15.3	80	1.0	1.0	1.0	80	190	1430	100	1356	43	20	0	0	1	8	1	0	0	0	140
OLMSTEAD DR.	0.0	10	0.1	0.1	0.1	10	45	348	40	318	12	0	0	0	0	0	0	0	0	0	27
THORNBARK DR.	3.5	16	0.2	0.2	0.2	16	53	317	48	297	14	0	0	0	0	0	0	61	66	0	79
BOULDER LN.	3.4	26	0.3	0.3	0.3	26	33	248	20	223	10	0	0	0	0	0	0	0	0	0	22
TOTAL	39	221	2.8	2.8	2.8	221	575	4419	336	4221	126	20	2	1	1	10	1	61	66	2	370

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

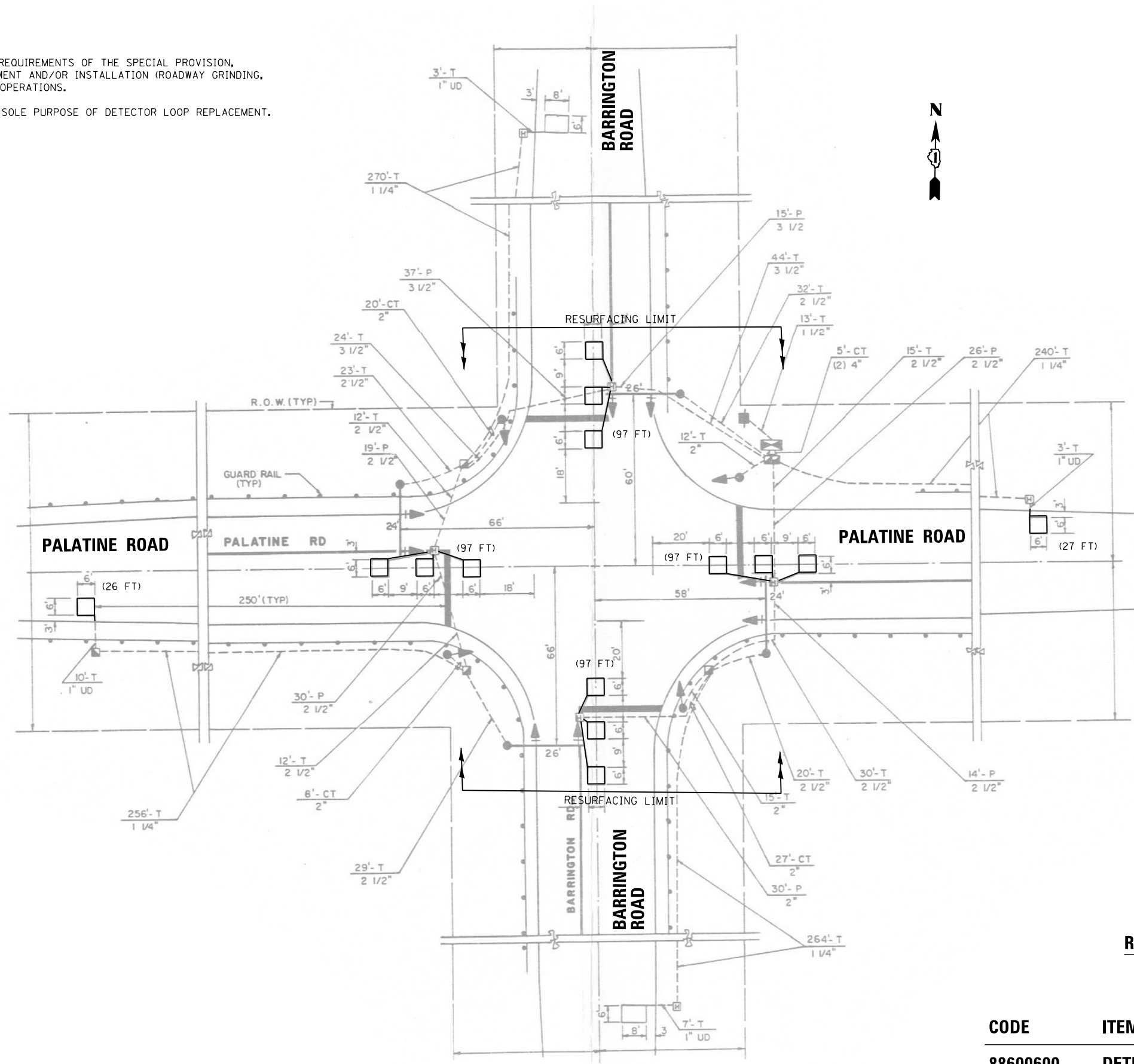
**SCHEDULE OF QUANTITIES FOR CURB RAMPS
PALATINE RD. - IL 62 (ALGONQUIN RD.) TO E/O ROSELLE RD.**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A,0105&0507)RS-4	COOK	39	16
CONTRACT NO. 62D14			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
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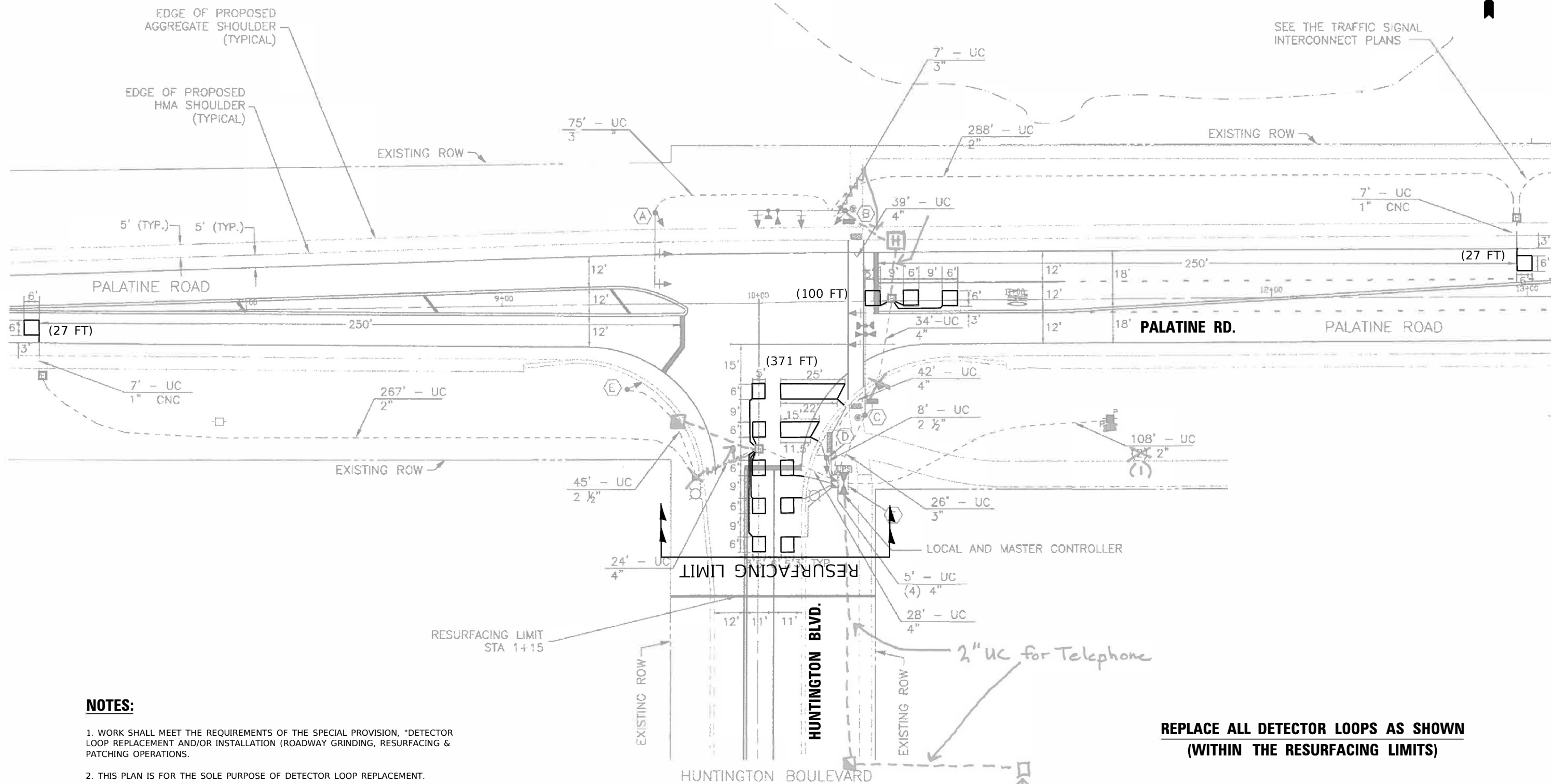
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
PALATINE ROAD AT BARRINGTON ROAD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A, 0105 & 0507) RS-4	COOK	39	18
CONTRACT NO. 62D14				
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	525	FOOT

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

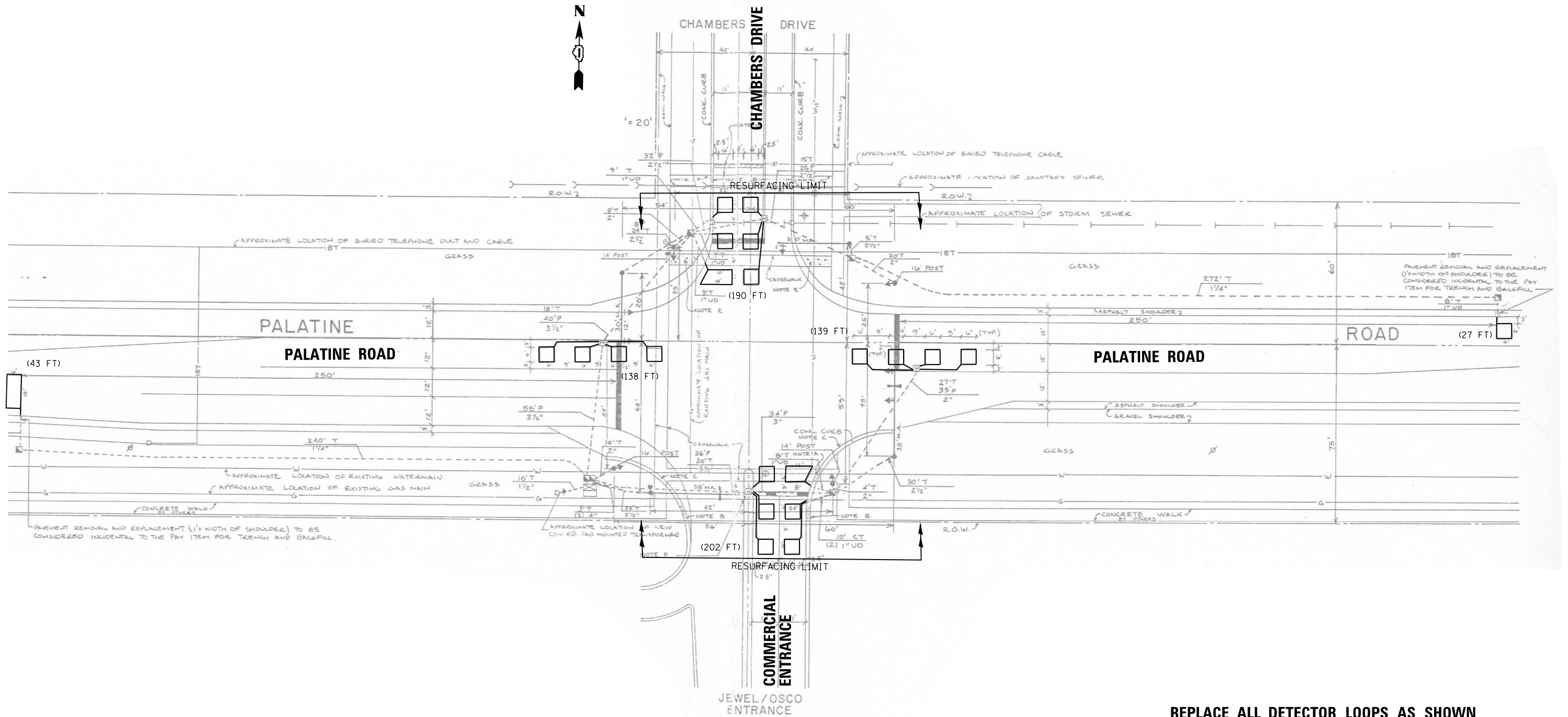
**DETECTOR LOOP REPLACEMENT
PALATINE ROAD AT HUNTINGTON BOULEVARD**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A, 0105 & 0507) RS-4	COOK	39	19
CONTRACT NO. 62D14				
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	739	FOOT

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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

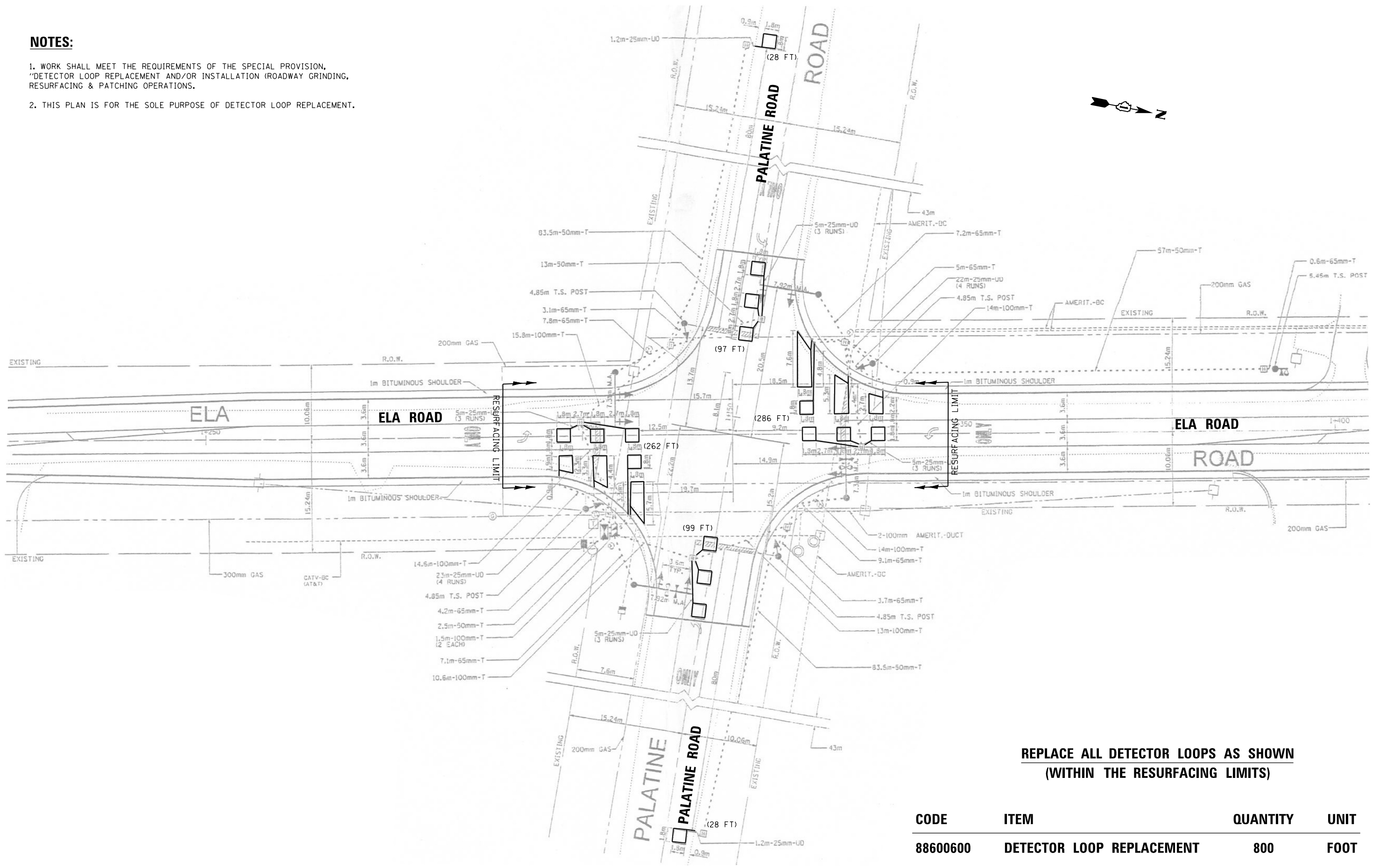
**DETECTOR LOOP REPLACEMENT PLAN
PALATINE ROAD AT CHAMBERS DRIVE**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A, 0105 & 0507) RS-4	COOK	39	20
				CONTRACT NO. 62D14
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.

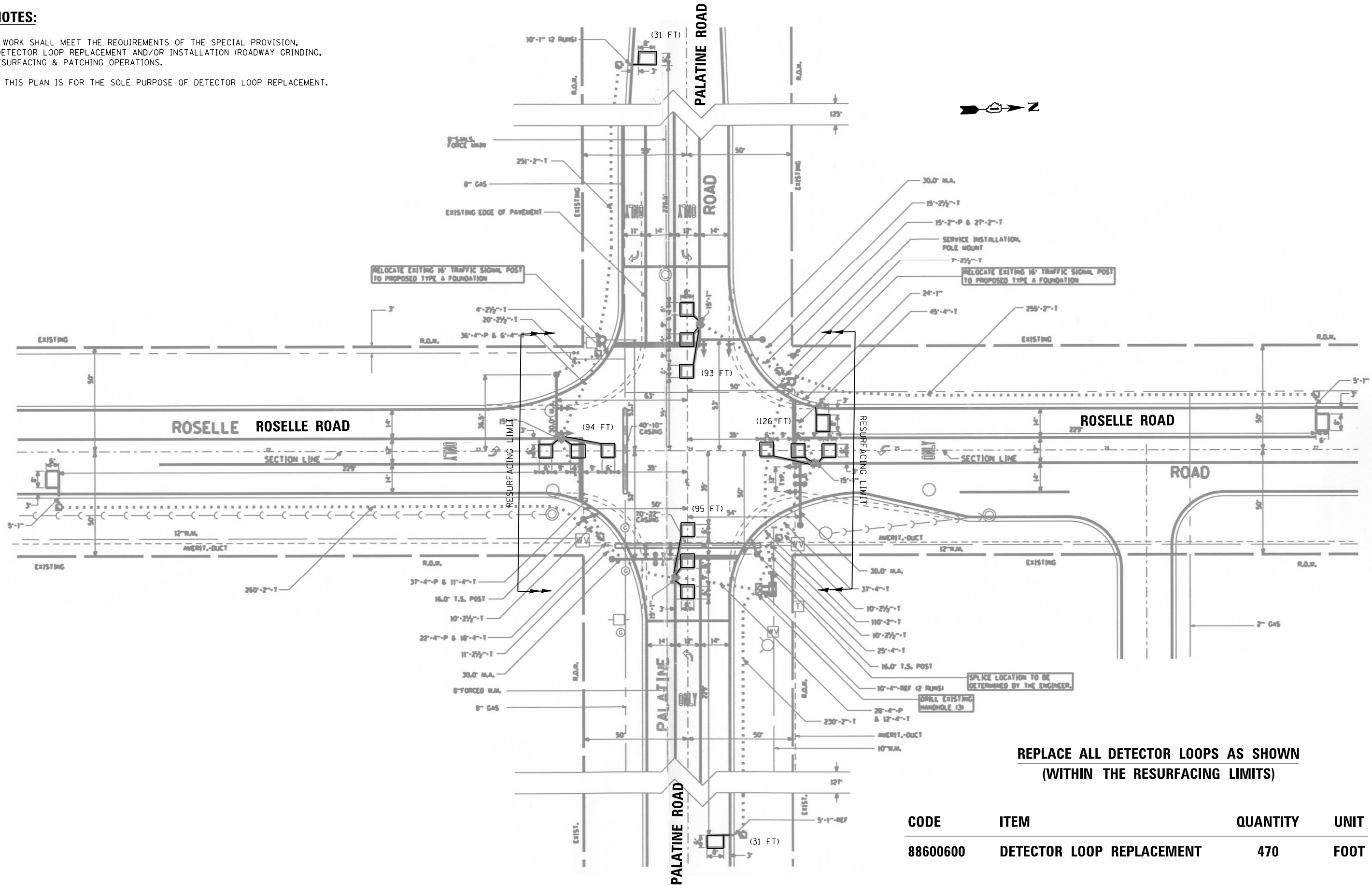


CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	800	FOOT

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	PLOT DATE = 7/2/2020	DATE - 04/03/2017	REVISED -			ILLINOIS FED. AID PROJECT					
						SCALE:	SHEET	OF	SHEETS	STA.	TO

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
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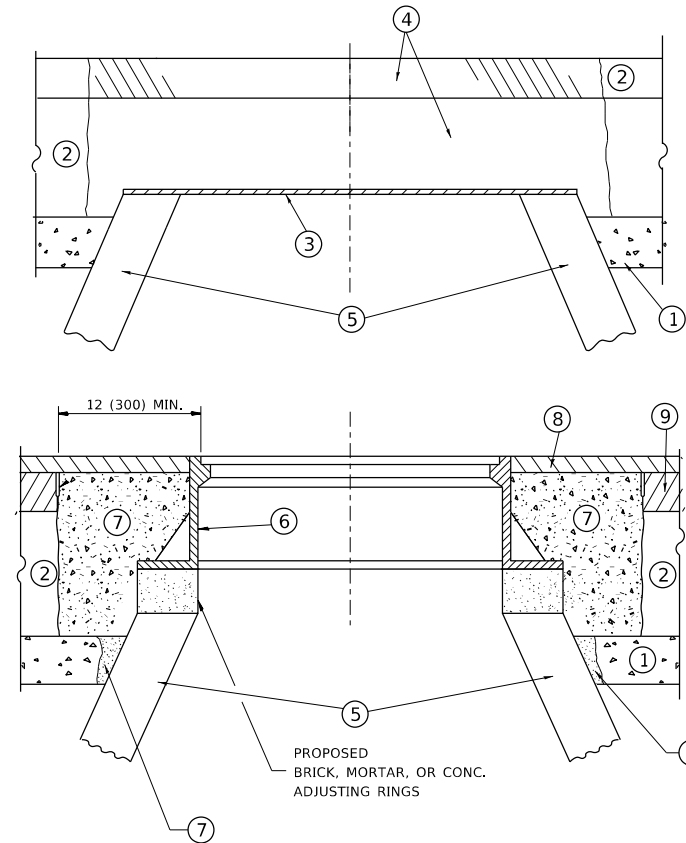
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**DETECTOR LOOP REPLACEMENT PLAN
PALATINE ROAD AT ROSELLE ROAD**

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A, 0105 & 0507) RS-4	COOK	39	22
CONTRACT NO. 62D14				
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

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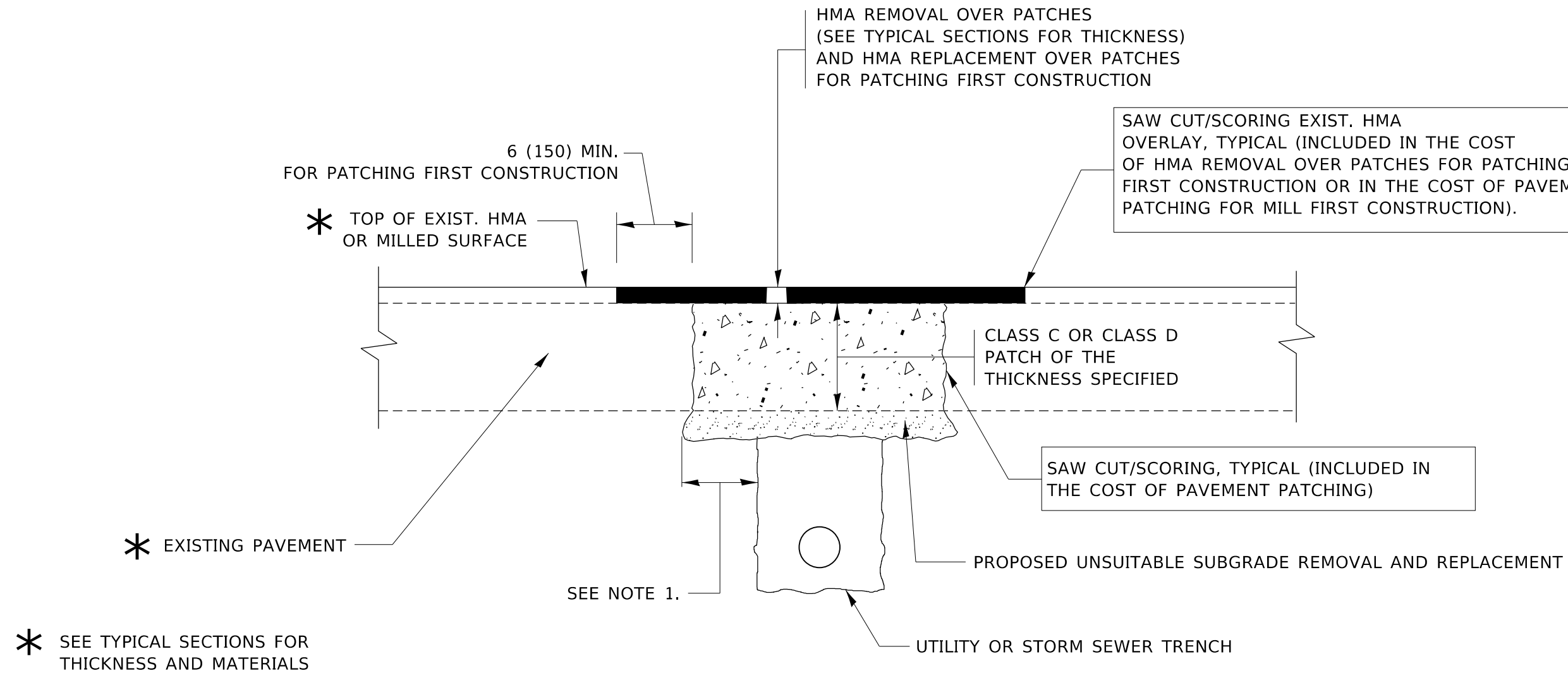
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PLOT DATE = 12/9/2020	DATE - 10-25-94	REVISED - R. BORO 12-06-11

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A,0105&0507)RS-4	COOK	39	26
BD600-03 (BD-8)		CONTRACT NO. 62D14		
ILLINOIS		FED. AID PROJECT		



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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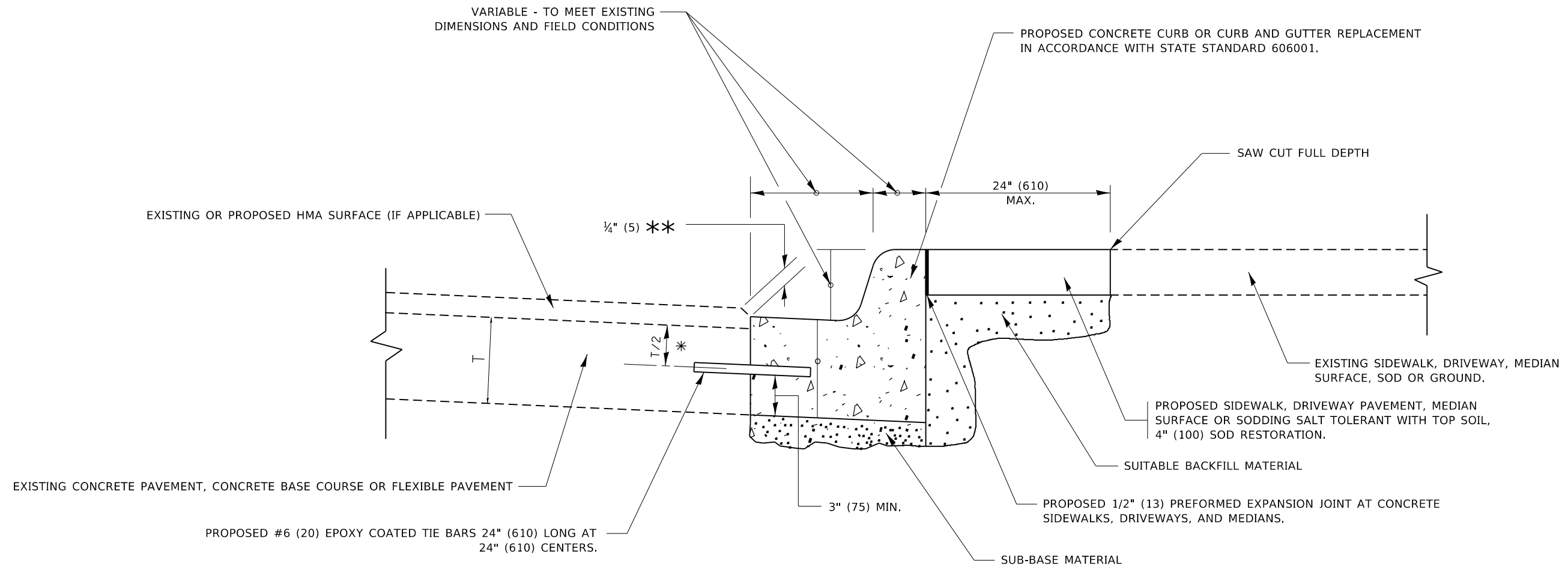
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PLOT DATE = 12/9/2020	DATE - 10-25-94	REVISED - K. ENG 10-27-08

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.
1285	(119A,0105&0507)RS-4	COOK	39	27
BD400-04 (BD-22)		CONTRACT NO. 62D14		
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.

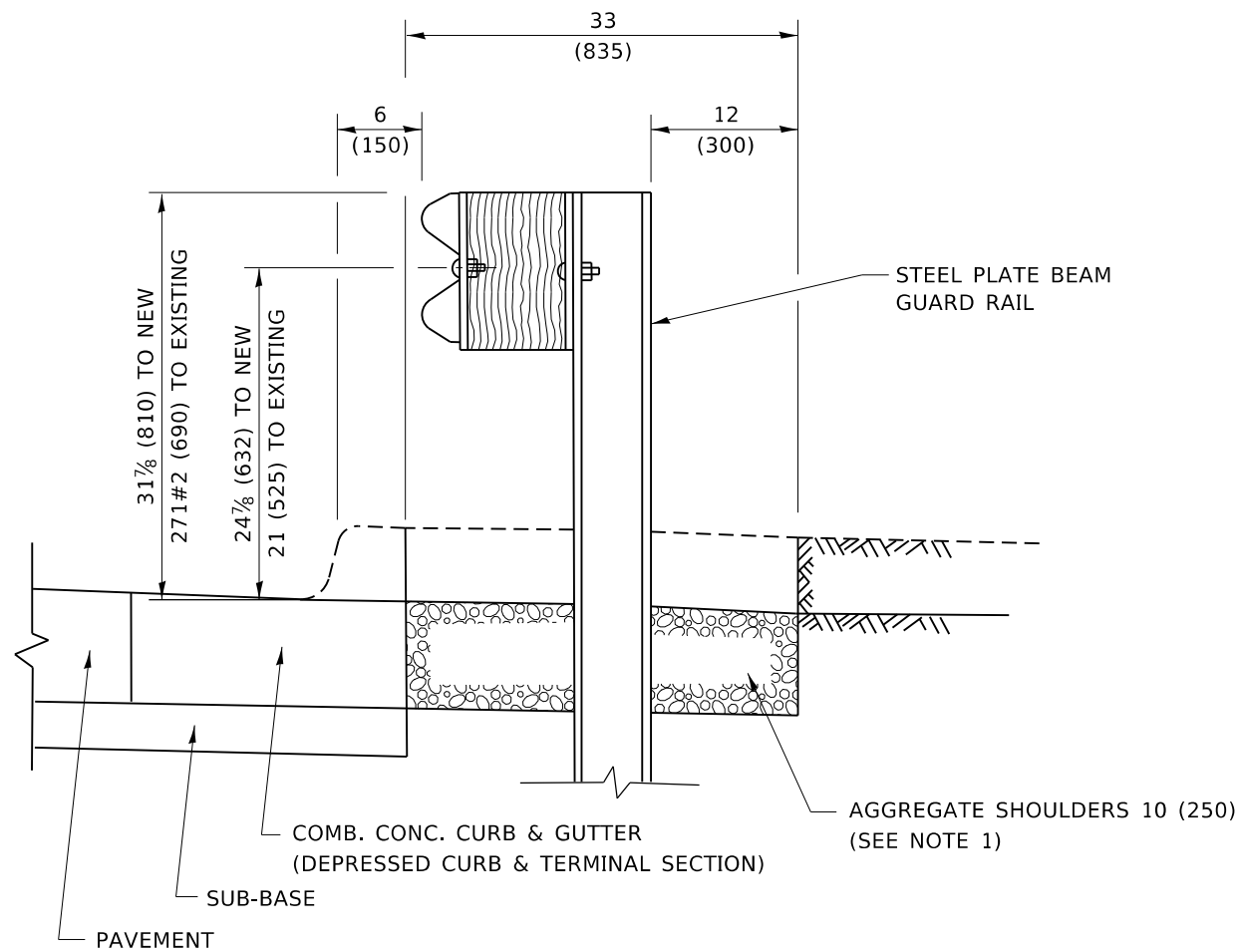
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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.
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BD600-06 (BD-24)		CONTRACT NO. 62D14		
ILLINOIS FED. AID PROJECT				



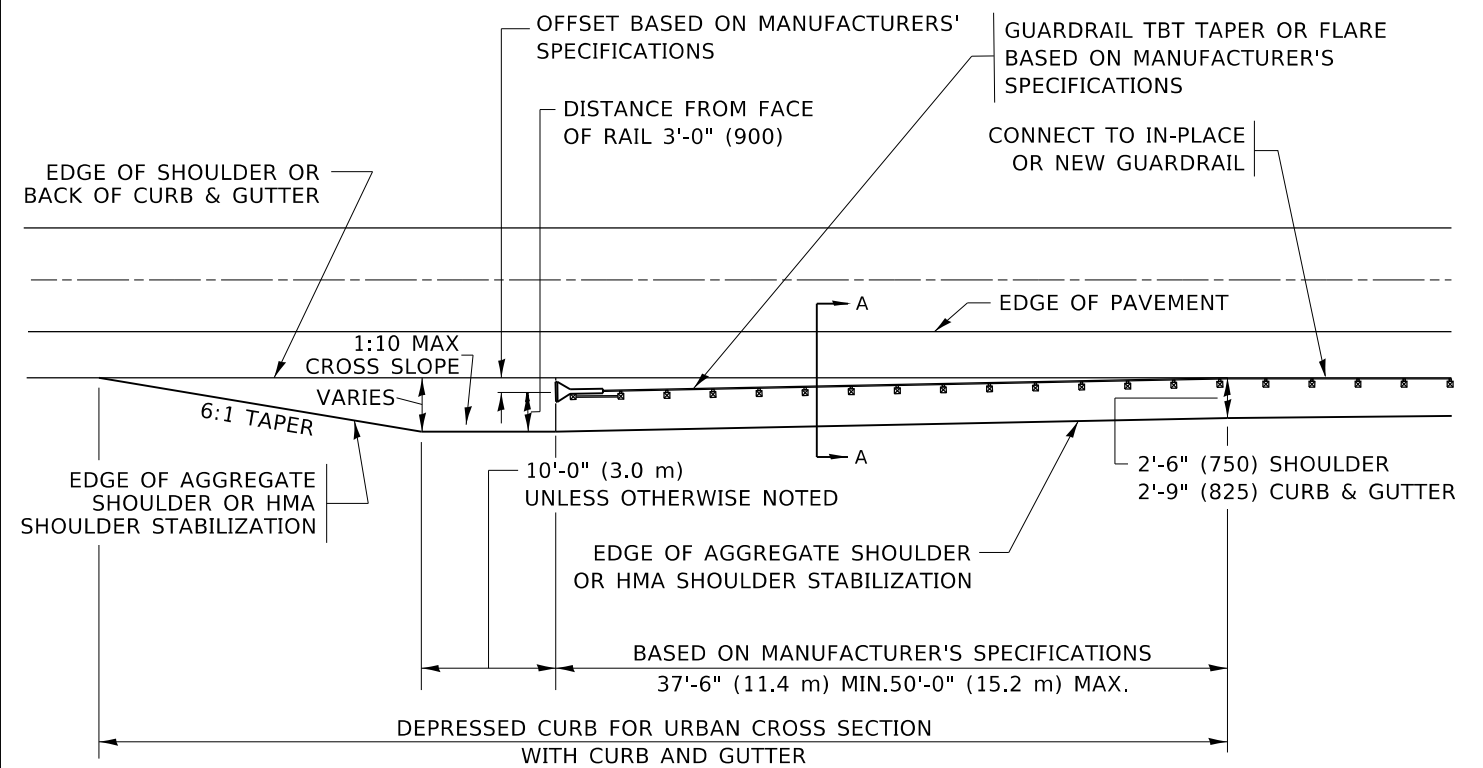
SECTION A-A

NOTES:

1. THE AGGREGATE SHOULDER, 10 (250) OR HMA SHOULDER, 6 (150) (IF REQUIRED) SHALL EXTEND UNDER THE TRAFFIC BARRIER TERMINAL.
2. "EXISTING" GUARDRAIL REFERS TO CONNECTING TERMINAL SECTION TO GUARD RAILING PRIOR TO THE MIDWEST GUARDRAIL SYSTEM.
3. THE CONTRACTOR SHALL VERIFY THE TYPE/HEIGHT OF GUARDRAIL IN-PLACE BEFORE ORDERING THE NEW TERMINAL SECTION. COST INCLUDED WITH THE COST OF THE TERMINAL. THE TERMINAL SECTION HEIGHT TO BE PLACED MUST MATCH THE HEIGHT OF THE IN-PLACE GUARDRAIL.

**DETAILS FOR STEEL PLATE BEAM
GUARD RAIL ADJACENT TO CURB AND GUTTER**

[FOR ROADWAY SPEED 35 MPH (60 kmh) TO 45 MPH (70 kmh)]



**DEPRESSED CURB AND GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

AGGREGATE SHOULDER, 10 (250) WILL BE PAID ACCORDING TO SECTION 481.

HMA SHOULDERS 6 (150) (IF REQUIRED) WILL BE PAID ACCORDING TO SECTION 482.

COMB. CONC. C&G, STEEL PLATE BEAM GUARD RAIL AND TRAFFIC BARRIER TERMINAL, OF THE TYPE SPECIFIED WILL BE PAID FOR SEPARATELY.

TBT = TRAFFIC BARRIER TERMINAL
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

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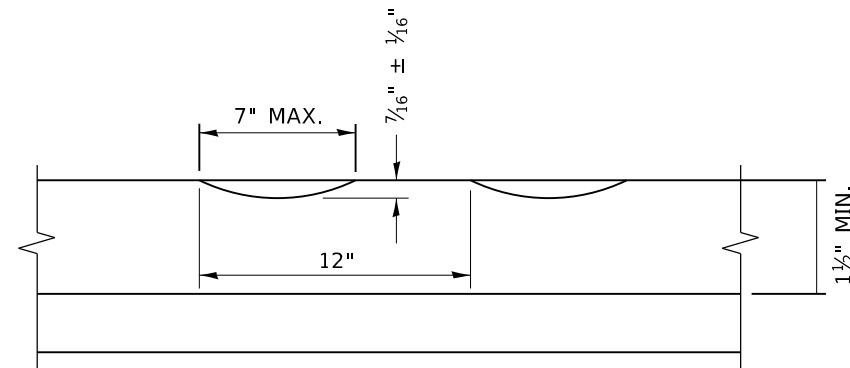
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

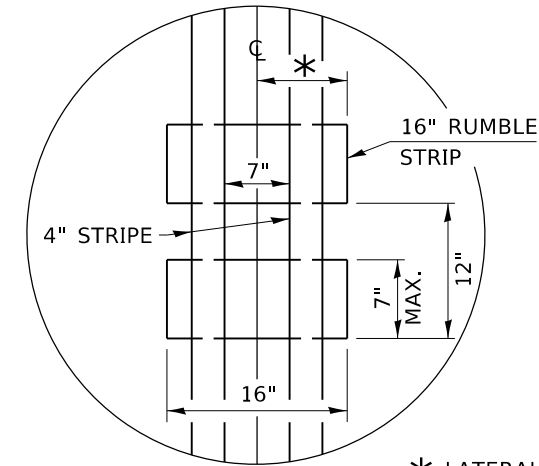
**DETAILS FOR DEPRESSED CURB & GUTTER AND
SHOULDER TREATMENT AT TBT TY. 1 SPL.**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A,0105&0507)RS-4	COOK	39	30
BD600-10 (BD 34)		CONTRACT NO. 62D14		
ILLINOIS FED. AID PROJECT				



SECTION A-A



* LATERAL DEVIATION SHALL NOT EXCEED ONE INCH IN 100 FEET.

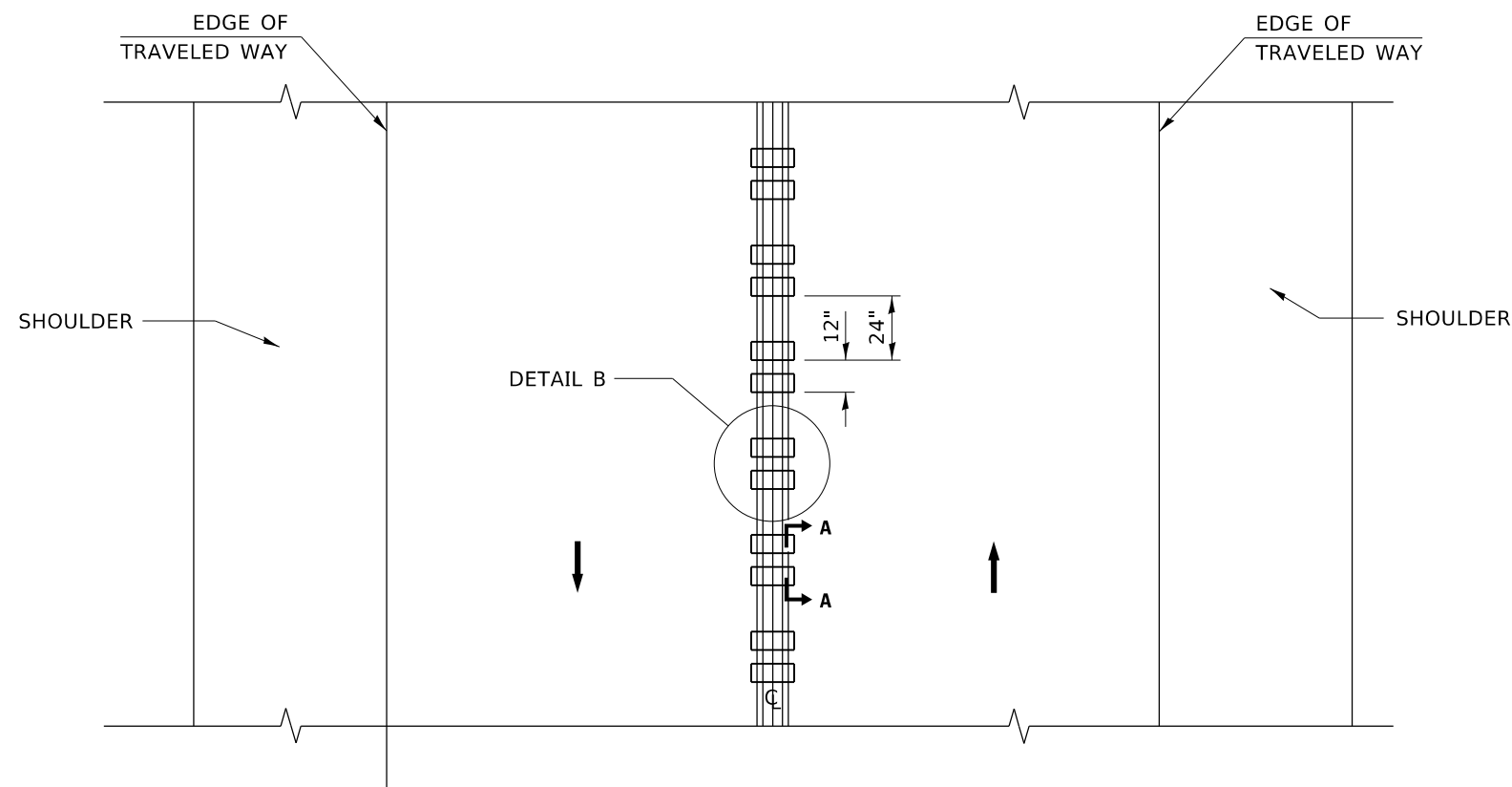
DETAIL B

GENERAL NOTES

- CENTERLINE RUMBLE STRIPS SHALL BE CONSTRUCTED ACCORDING TO SECTION 642 ALONG THE CENTERLINE OF PAVEMENT.
- SEE STANDARD 780001 FOR OTHER STRIPING LAYOUTS.
- RUMBLE STRIPS SHALL NOT BE PLACED ON BRIDGES.
- ALL RUMBLE STRIPS SHALL BE MILLED.
- CENTERLINE RUMBLE STRIPS SHALL BE CONTINUOUS THROUGH CONNECTIONS OF SIDEROADS WITH NO LEFT TURN LANES.
- DISCONTINUE CENTERLINE RUMBLE STRIPS THROUGH THE LIMITS OF ALL LEFT TURN LANES, INCLUDING ANY LANE TAPER SECTIONS.
- AFTER RUMBLE STRIPS ARE INSTALLED, THE PAVEMENT SURFACE SHALL BE SWEEPED CLEAN PRIOR TO THE PLACEMENT OF THE NEW PAVEMENT MARKINGS.
- WHERE USED, ADJUST SPACING OF RAISED REFLECTIVE PAVEMENT MARKERS TO FALL IN WIDER GAP BETWEEN RUMBLE STRIPS.

BASIS OF PAYMENT

- THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT FOR CENTERLINE-RUMBLE STRIP OF THE WIDTH SPECIFIED.
- HOT-SPRAY THERMOPLASTIC PAVEMENT MARKING WILL BE USED OVER THE RUMBLE STRIPS, AND WILL BE PAID FOR SEPARATELY.



TWO-WAY ROAD

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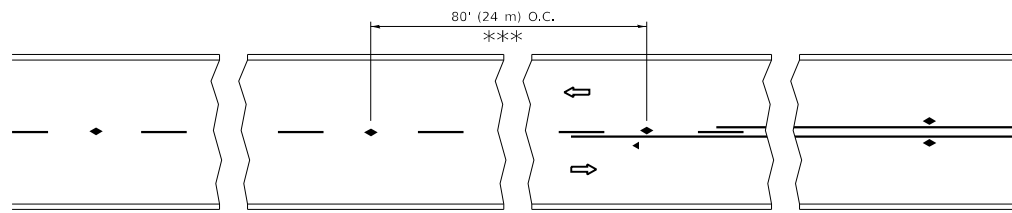
USER NAME = tariqfm	DESIGNED - R. BORO	REVISED -
	DRAWN -	REVISED -
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -
PLOT DATE = 12/9/2020	DATE - 08-06-2012	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

RUMBLE STRIPS FOR CENTERLINE, NON-FREEWAY

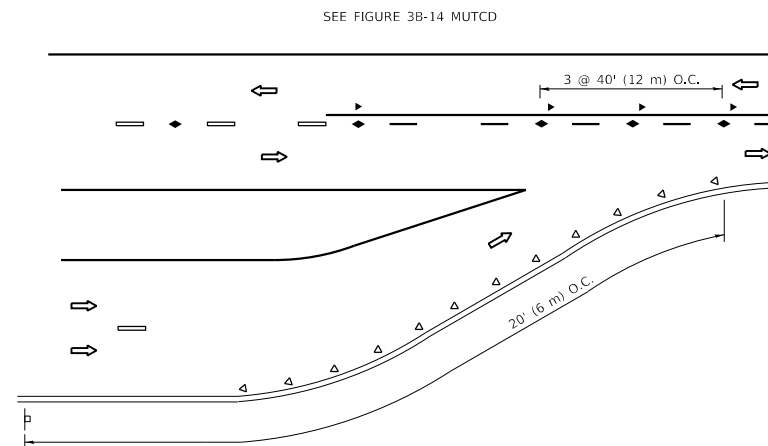
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A,0105&0507)RS-4	COOK	39	31
BD 55		CONTRACT NO. 62D14		
ILLINOIS FED. AID PROJECT				

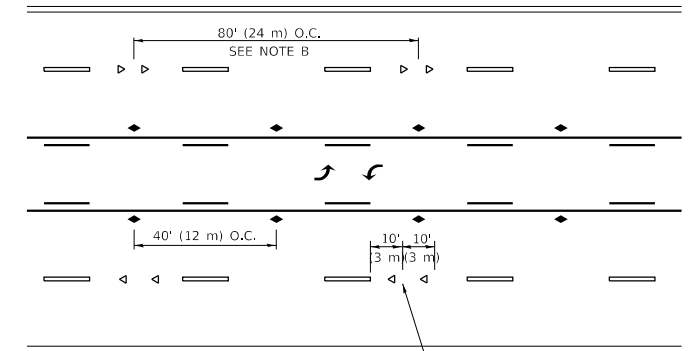


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

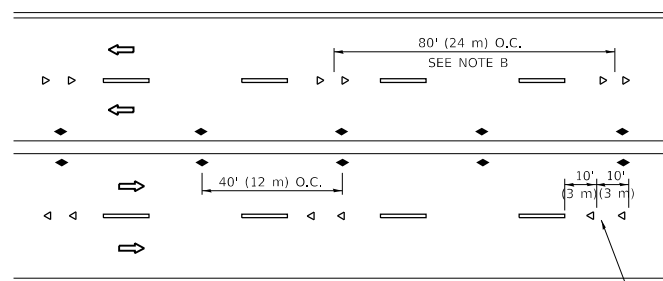
TWO-LANE/TWO-WAY



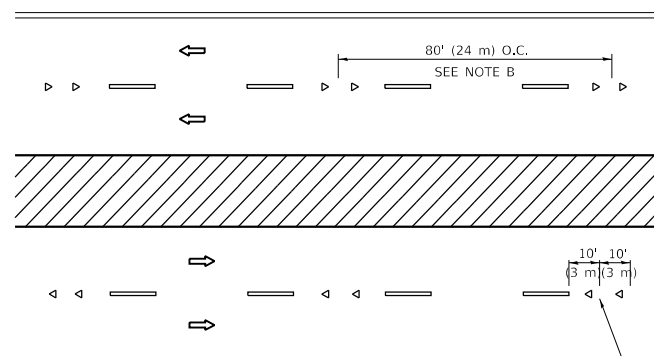
LANE REDUCTION TRANSITION



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

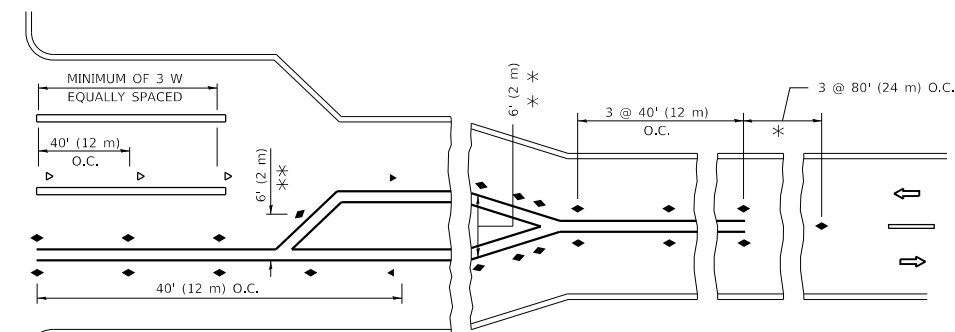
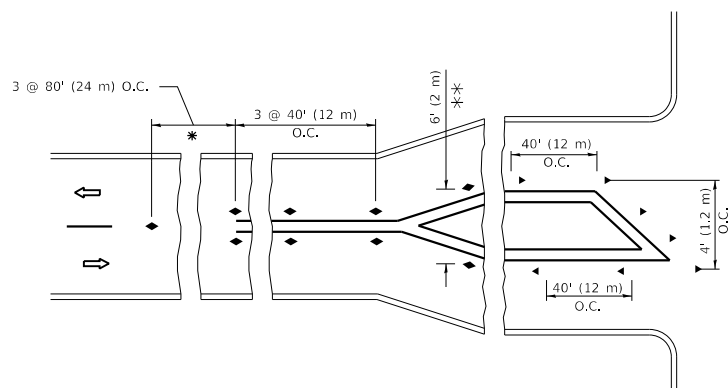
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◀ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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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USER NAME = tariqfm	DESIGNED -	REVISED - T. RAMMACHER 03-12-99
	DRAWN -	REVISED - T. RAMMACHER 01-06-00
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - C. JUCIUS 09-09-09
PLOT DATE = 12/9/2020	DATE -	REVISED - C. JUCIUS 07-01-13

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

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

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
1285	(119A,0105&0507)RS-4	COOK	39	33
TC-11			CONTRACT NO. 62D14	
ILLINOIS		FED. AID PROJECT		

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

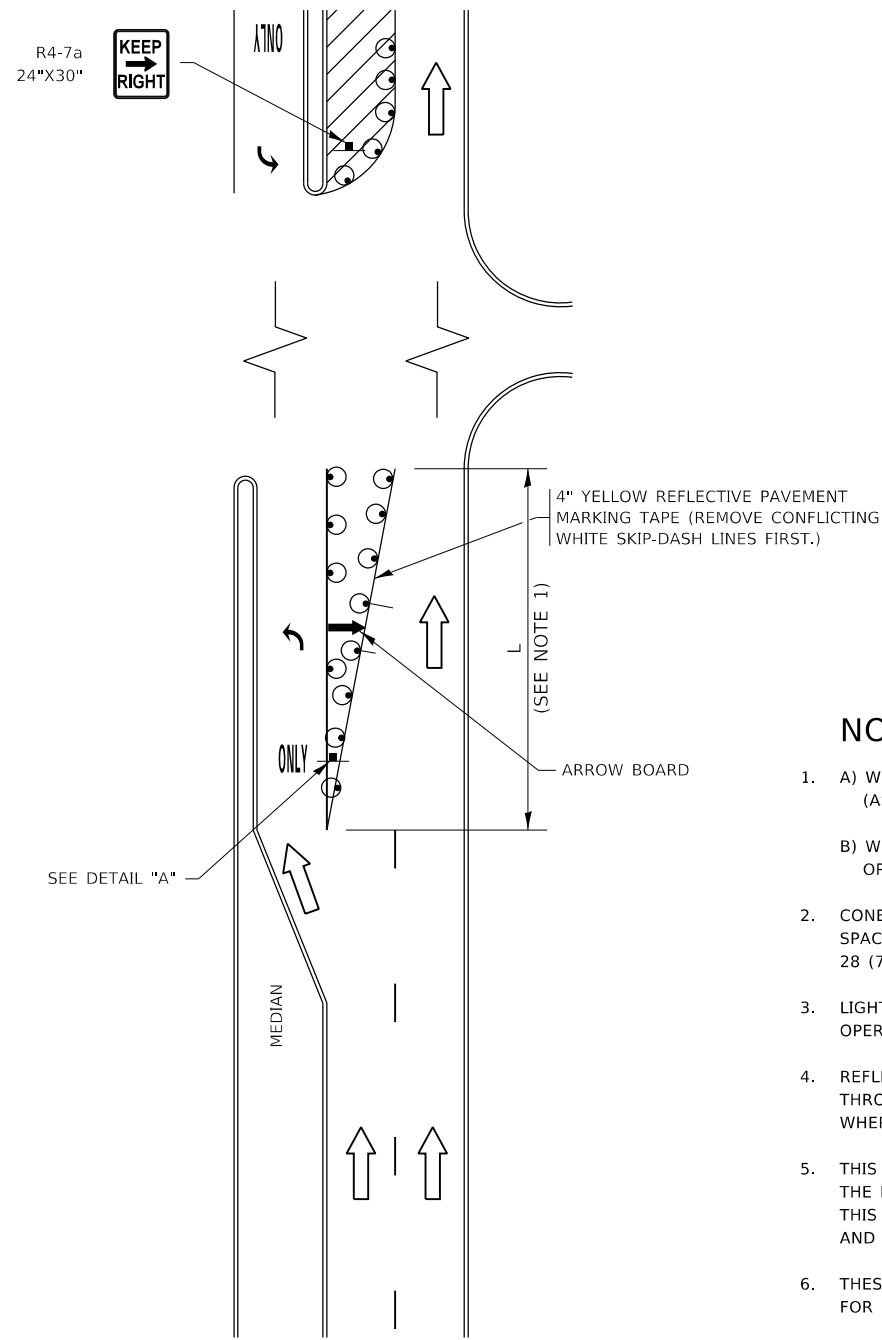


FIGURE 1

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

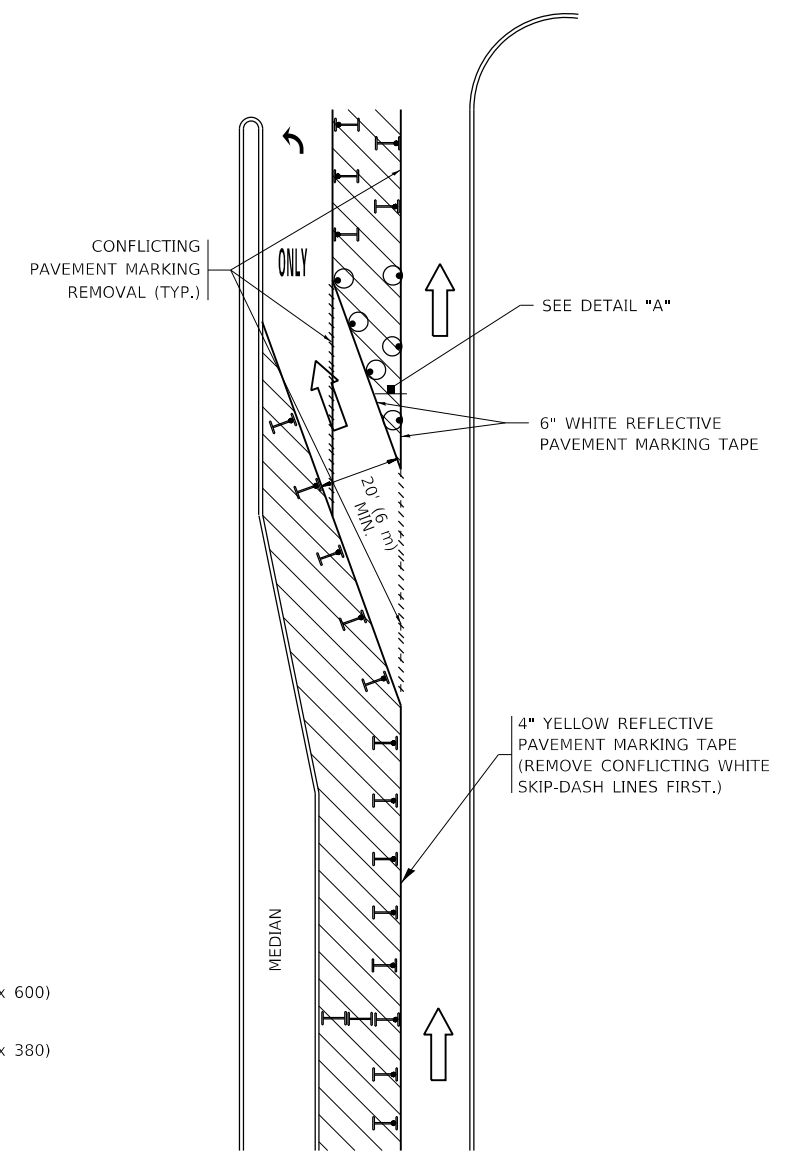


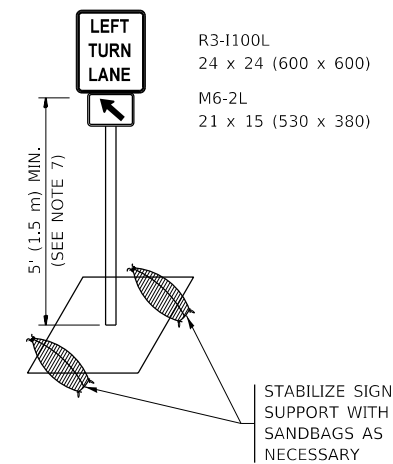
FIGURE 2

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 ≤ 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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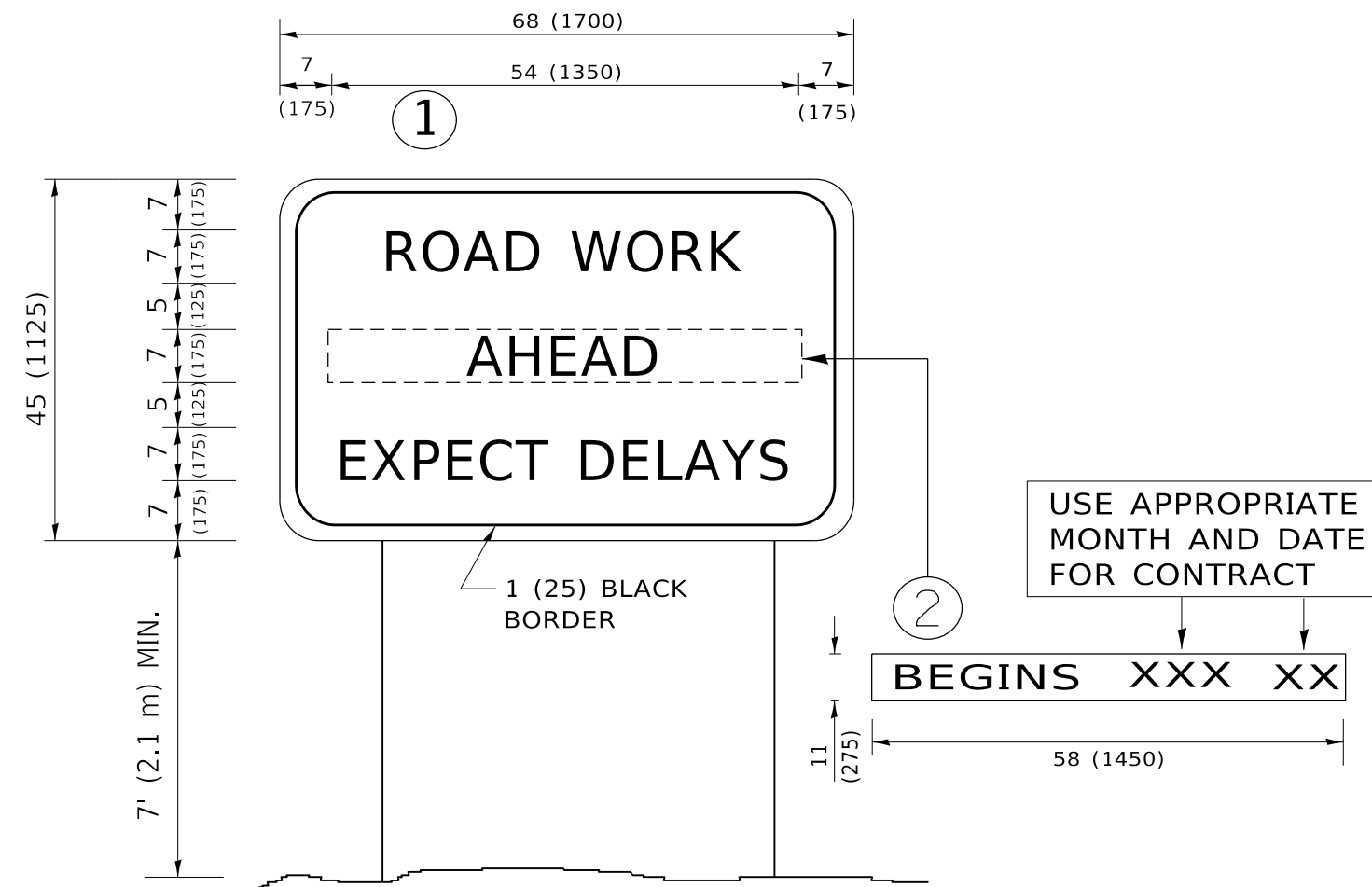
USER NAME = tariqfm	DESIGNED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09
	DRAWN - A. HOUSEH 11-07-95	REVISED - A. SCHUETZE 07-01-13
PLOT SCALE = 100,0000' / in.	CHECKED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16
PLOT DATE = 12/9/2020	DATE - T. RAMMACHER 01-06-00	REVISED -

**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.
1285	(119A,0105&0507)RS-4	COOK	39	35
TC-14		CONTRACT NO. 62D14		
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.

MODEL: Default
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USER NAME = tariqfm	DESIGNED -	REVISED - R. MIRS 09-15-97
	DRAWN -	REVISED - R. MIRS 12-11-97
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
PLOT DATE = 12/9/2020	DATE -	REVISED - C. JUCIUS 01-31-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ARTERIAL ROAD
INFORMATION SIGN**

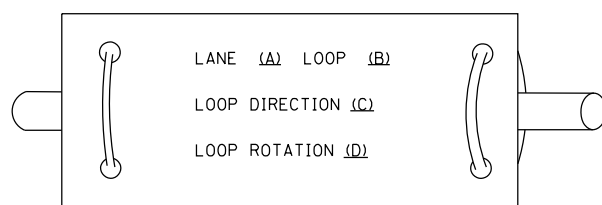
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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TC-22			CONTRACT NO. 62D14	
ILLINOIS FED. AID PROJECT				

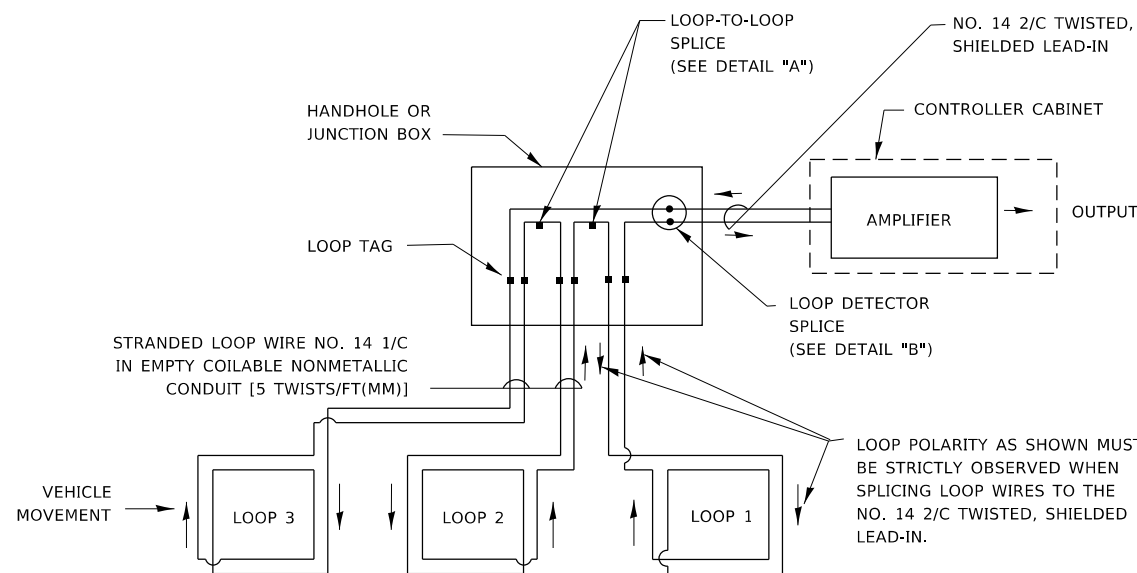
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

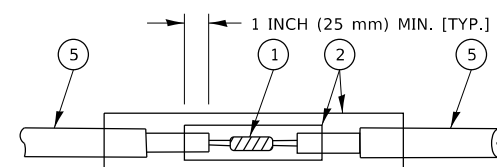


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.

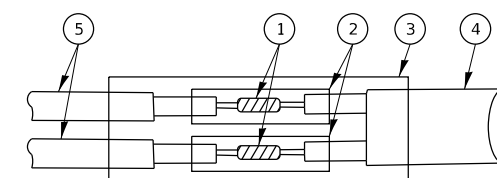


DETECTOR LOOP WIRING SCHEMATIC

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

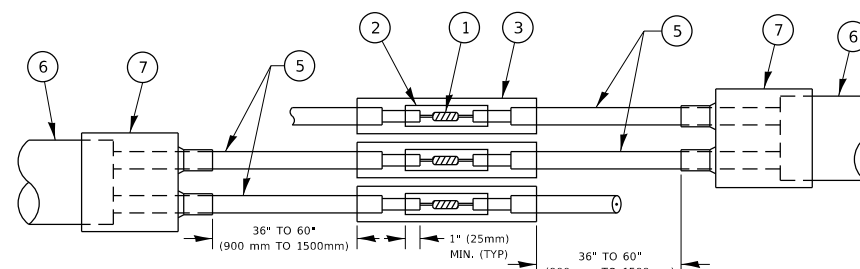


DETAIL "A"
LOOP-TO-LOOP SPLICE

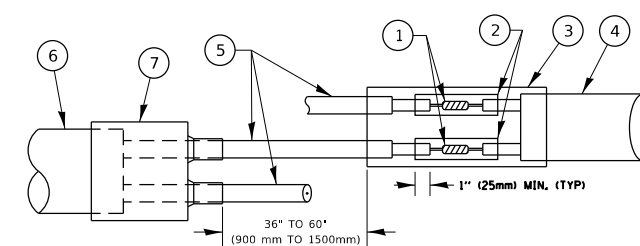


DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

TYPE I LOOP



DETAIL "A"
LOOP-TO-LOOP SPLICE



DETAIL "B"
LOOP-TO-CONTROLLER SPLICE

PREFORMED LOOP

LOOP DETECTOR SPLICE

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

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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.
1285	(119A,0105&0507)RS-4	COOK	39	38
TS-05			CONTRACT NO. 62D14	
ILLINOIS		FED. AID PROJECT		

