

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	(524-1&2) RS	COOK	47	1
ILLINOIS CONTRACT NO. 60L98				

FOR INDEX OF SHEETS, SEE SHEET NO. 2

PROPOSED HIGHWAY PLANS

THE IMPROVEMENT IS LOCATED IN THE CITY OF PALOS HEIGHTS AND THE VILLAGES OF PALOS PARK AND ALSIP

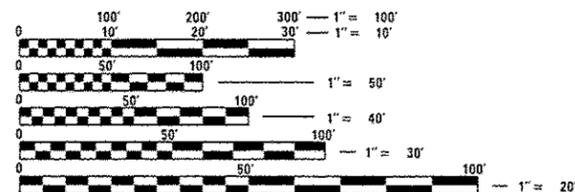
F.A.P. ROUTE 344: IL 83
HIGHWOOD DRIVE TO IL 83 (127TH STREET)
SECTION: (524-1&2) RS
PROJECT: NHPP-0344(064)
RESURFACING (3P), PEDESTRIAN RAMPS
COOK COUNTY

C-91-065-11



TRAFFIC DATA:
2015 ADT = 26,500
POSTED SPEED LIMIT = 35-50 MPH

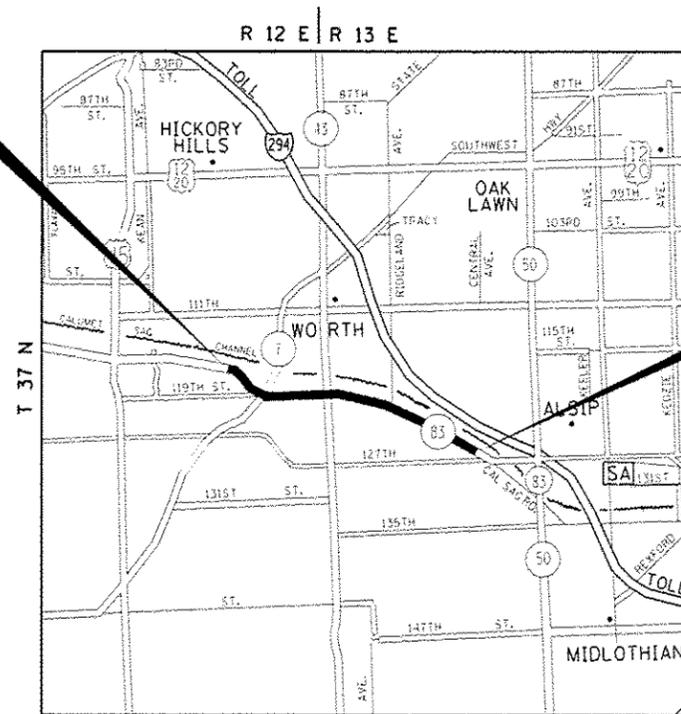
IL7 INTERSECTION OMISSION:
STA. 128+06 TO STA. 131+22.5



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

IMPROVEMENT BEGINS
STA. 96 + 52.5



PALOS AND WORTH TOWNSHIPS

IMPROVEMENT ENDS
STA. 304 + 91.5

GROSS LENGTH OF PROJECT = 20,839 LINEAL FT. = 3.95 MILES
NET LENGTH OF PROJECT = 20,522.5 LINEAL FT. = 3.89 MILES

PROJECT ENGINEER KARI SMITH (847) 705-4437
PROJECT MANAGER FAWAD AQUEEL (847) 705-4247

CONTRACT NO. 60L98

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SUBMITTED April 3 20 17
Anthony J. [Signature] REGIONAL ENGINEER

May 12 20 17
Maureen M. Addis PE, EIT ENGINEER OF DESIGN AND ENVIRONMENT

May 12 20 17 [Signature] 2
DIRECTOR OF PROGRAM DEVELOPMENT

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

INDEX OF SHEETS

STATE HIGHWAY STANDARDS

GENERAL NOTES

SHEET NO.	DESCRIPTION
1	TITLE SHEET
2	INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES
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8 - 10	TYPICAL SECTIONS
11 - 18	ROADWAY AND PAVEMENT MARKING PLANS
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23 - 31	DRAINAGE PLANS
32 - 34	DETECTOR LOOP REPLACEMENT PLANS
35	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
36	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
37	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
38	BUTT JOINT AND HMA TAPER DETAILS (BD-32)
39	HMA TAPER AT EDGE OF PCC PAVEMENT (BD-33)
40	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)
41	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT) (TC-11)
42	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
43	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
44	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
45	ARTERIAL ROAD INFORMATION SIGN (TC-22)
46	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAIL, SHEET 2 OF 7 (TS-05)
47	DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

STANDARD NO.	DESCRIPTION
000001-06	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS
424001-09	PERPENDICULAR CURB RAMPS FOR SIDEWALKS
424006-02	DIAGONAL CURB RAMPS FOR SIDEWALKS
424011-03	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS
442201-03	CLASS C AND D PATCHES
604001-04	FRAMES AND LIDS TYPE 1
604091-03	FRAME AND GRATE TYPE 24
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701011-04	OFF-RD MOVING OPERATIONS, 2L, 2W, DAY ONLY
701201-04	LANE CLOSURE, 2L, 2W, DAY ONLY, FOR SPEEDS ≥ 45 MPH
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701306-03	LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY, FOR SPEEDS ≥ 45 MPH
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS - DAY ONLY
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS ≥ 45 MPH
701427-05	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPER., FOR SPEEDS ≤ 40 MPH
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701502-07	URBAN LANE CLOSURE, 2L, 2W, WITH BIDIRECTIONAL LEFT TURN LANE
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN
701606-10	URBAN SINGLE LANE CLOSURE, MULTILANE, 2W WITH MOUNTABLE MEDIAN
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE
701901-06	TRAFFIC CONTROL DEVICES
814001-03	HANDHOLES

- 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, THE CITY OF PALOS HEIGHTS, AND THE VILLAGES OF PALOS PARK AND ALSIP.
- FRAMES AND GRATES ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROVEMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.
- THE CONTRACTOR SHALL CONTACT DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT THE WRITTEN PERMISSION OF THE DEPARTMENT.
- UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURE AS DETERMINED AND APPROVED IN WRITING BY THE RESIDENT ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.
- IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.
- DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ADJUTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER/TECHNICIAN.
- DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- FOR FRAMES AND LIDS ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID UNLESS OTHERWISE SPECIFIED IN THE PLANS.
- WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS, AND 1 INCH WHERE THE SPEED LIMIT IS OVER 45 MPH. WITH WRITTEN APPROVAL FROM THE RESIDENT ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM OF 1V:3H.
- BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF RESURFACING (WHERE RESURFACING MEETS EXISTING PAVEMENT) IN ACCORDANCE WITH THE "BUTT JOINT AND HMA TAPER DETAILS" SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.
- THE RESIDENT ENGINEER SHALL CONTACT PATRICE HARRIS, ARTERIAL TRAFFIC FIELD TECHNICIAN VIA E-MAIL AT PATRICE.HARRIS@ILLINOIS.GOV, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE RESIDENT ENGINEER.
- ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AND PAID FOR IN KIND.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.
- THE CONTRACTOR SHALL BE RESPONSIBLE FOR THE REPLACEMENT OF ANY DETECTOR LOOPS DAMAGED DURING CONSTRUCTION.
- THE CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.
- LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (OR COMBINATION CURB AND GUTTER (THE TYPE SPECIFIED IN THE PLANS)) WILL BE DETERMINED IN THE FIELD BY THE RESIDENT ENGINEER.
- THE ENGINEER SHALL REPORT CLEARANCES UNDER THE BRIDGE BEFORE AND AFTER RESURFACING.

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SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 80% FED 20% STATE	0004 80% FED 20% STATE DRAINAGE IMPROVEMENT				
20200100	EARTH EXCAVATION	CU YD	253	10	243				
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	50		50				
20800150	TRENCH BACKFILL	CU YD	186		186				
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	160	160					
21101625	TOPSOIL FURNISH AND PLACE, 6"	SO YD	3972		3972				
25000210	SEEDING, CLASS 2A	ACRE	0.79		0.79				
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	72	1	71				
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	72	1	71				
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	72	1	71				
25100630	EROSION CONTROL BLANKET	SO YD	3792		3792				
25200110	SODDING, SALT TOLERANT	SO YD	160	160					
25200200	SUPPLEMENTAL WATERING	UNIT	1	1					
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	79		79				
28000400	PERIMETER EROSION BARRIER	FOOT	3000		3000				
28000500	INLET AND PIPE PROTECTION	EACH	14		14				

SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 80% FED 20% STATE	0004 80% FED 20% STATE DRAINAGE IMPROVEMENT				
28001100	TEMPORARY EROSION CONTROL BLANKET	SO YD	3792		3792				
28100105	STONE RIPRAP, CLASS A3	SO YD	810		810				
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SO YD	77		77				
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	54236	54236					
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	254	254					
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	3593	3593					
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SO YD	1090	1090					
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SO YD	14	14					
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	9		9				
40603565	POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "E", N70	TON	8275	8275					
42101300	PROTECTIVE COAT	SO YD	374	374					
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SO FT	1356	1356					

FILE NAME :	USER NAME :	DESIGNED :	REVISED :
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PLOT SCALE :	CHECKED :	REVISED :	REVISED :
1000000 1/4"	-	-	-
PLOT DATE :	DATE :	REVISED :	REVISED :
4/11/2011	-	-	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE. 83: HIGHWOOD DR. TO IL RTE. 83 (127th ST.)
SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	(524-1&2) RS	COOK	47	3
CONTRACT NO. 60L98				
SCALE: SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT				

SUMMARY OF QUANTITIES				URBAN CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 80% FED 20% STATE	0004 80% FED 20% STATE DRAINAGE IMPROVEMENT				
42400800	DETECTABLE WARNINGS	SO FT	40	40					
44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SO YD	72187	72187					
44000200	DRIVEWAY PAVEMENT REMOVAL	SO YD	77		77				
44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	28		28				
44000600	SIDEWALK REMOVAL	SO FT	1356	1356					
44003510	MEDIAN REMOVAL PARTIAL DEPTH	SO FT	10673	10673					
44201717	CLASS D PATCHES, TYPE II, 6 INCH	SO YD	7		7				
44201753	CLASS D PATCHES, TYPE II, 9 INCH	SO YD	150	150					
44201757	CLASS D PATCHES, TYPE III, 9 INCH	SO YD	200	200					
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SO YD	150	150					
44201839	CLASS D PATCHES, TYPE II, 16 INCH	SO YD	925	925					
44201843	CLASS D PATCHES, TYPE III, 16 INCH	SO YD	1250	1250					
44201845	CLASS D PATCHES, TYPE IV, 16 INCH	SO YD	925	925					
44201863	CLASS D PATCHES, TYPE II, 18 INCH	SO YD	27		27				
44201867	CLASS D PATCHES, TYPE III, 18 INCH	SO YD	103		103				

SUMMARY OF QUANTITIES				URBAN CONSTRUCTION TYPE CODE					
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 80% FED 20% STATE	0004 80% FED 20% STATE DRAINAGE IMPROVEMENT				
44201869	CLASS D PATCHES, TYPE IV, 18 INCH	SO YD	57		57				
48101100	AGGREGATE SHOULDERS, TYPE A 12"	SO YD	39		39				
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	538	538					
50104400	CONCRETE HEADWALL REMOVAL	EACH	2		2				
54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	7		7				
54010302	PRECAST CONCRETE BOX CULVERTS 3' X 2'	FOOT	133		133				
54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	16		16				
54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2		2				
54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EACH	2		2				
542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	386		386				
542A5485	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30"	FOOT	42		42				
550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	20		20				
550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	269		269				

URBAN

URBAN

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE				
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	0004 80% FED 20% STATE DRAINAGE IMPROVEMENT			
55100500	STORM SEWER REMOVAL 12"	FOOT	89	89				
55100700	STORM SEWER REMOVAL 15"	FOOT	90	90				
55100900	STORM SEWER REMOVAL 18"	FOOT	43	43				
55101200	STORM SEWER REMOVAL 24"	FOOT	290	290				
60300305	FRAMES AND LIDS TO BE ADJUSTED	EACH	2	2				
60402010	GRATES, TYPE 6	EACH	1	1				
60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	28	28				
* 66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	303	10	293			
* 66900450	SPECIAL WASTE PLANS AND REPORTS	LSUM	1	0.1	0.9			
* 66900530	SOIL DISPOSAL ANALYSIS	EACH	2	1	1			
67000400	ENGINEER'S FIELD OFFICE, TYPE A	CAL MO	6	5	1			
67100100	MOBILIZATION	L SUM	1	0.8	0.2			
70100450	TRAFFIC CONTROL AND PROTECTION, STANDARD 701201	LSUM	1	0.8	0.2			

* Specialty Item

SUMMARY OF QUANTITIES			TOTAL QUANTITIES	CONSTRUCTION TYPE CODE			
CODE NO	ITEM	UNIT		0005 80% FED 20% STATE	0004 80% FED 20% STATE DRAINAGE IMPROVEMENT		
70100460	TRAFFIC CONTROL AND PROTECTION, STANDARD 701306	LSUM	1	1			
70100600	TRAFFIC CONTROL AND PROTECTION, STANDARD 701336	LSUM	1	0.2	0.8		
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	0.2	0.8		
70102622	TRAFFIC CONTROL AND PROTECTION, STANDARD 701502	LSUM	1	1			
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	LSUM	1	1			
70102630	TRAFFIC CONTROL AND PROTECTION, STANDARD 701601	LSUM	1	1			
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1			
70102640	TRAFFIC CONTROL AND PROTECTION, STANDARD 701801	LSUM	1	1			
70300100	SHORT TERM PAVEMENT MARKING	FOOT	11866	11866			
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SO FT	3956	3956			
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SO FT	947	947			

FILE NAME :	USER NAME :	DESIGNED :	REVISED :
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OFFICE OF THE CHIEF ENGINEER	PROJECT NO. 010651	CHECKED :	REVISED :
		-	-
PLOT SCALE :	PLOT DATE :	DATE :	REVISED :
1" = 100.0000'	4/11/2011	-	-

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

IL RTE. 83: HIGHWOOD DR. TO IL. RTE. 83 (127th ST.)
SUMMARY OF QUANTITIES

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	(524-182) RS	COOK	47	5
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			CONTRACT NO. 60L98	

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

14

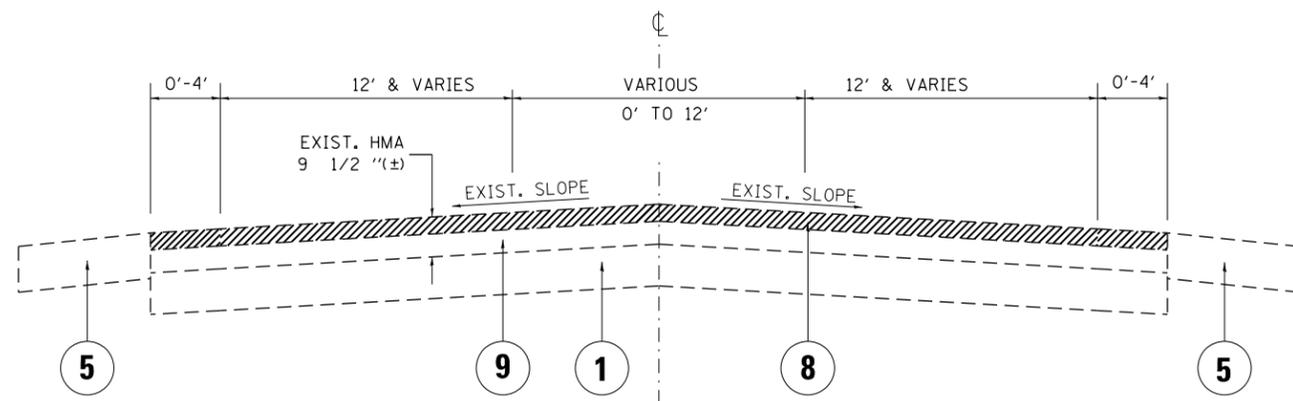
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SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE					SUMMARY OF QUANTITIES				CONSTRUCTION TYPE CODE						
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 80% FED 20% STATE	0004 80% FED 20% STATE DRAINAGE IMPROVEMENT					CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005 80% FED 20% STATE	0004 80% FED 20% STATE DRAINAGE IMPROVEMENT				
70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	77163	77163						* 89500400	RELOCATE EXISTING PEDESTRIAN PUSH-BUTTON	EACH	1	1					
70300240	TEMPORARY PAVEMENT MARKING - LINE 6"	FOOT	4089	4089						* 89502376	REBUILD EXISTING HANDHOLE	EACH	6	6					
70300260	TEMPORARY PAVEMENT MARKING - LINE 12"	FOOT	1657	1657						* 89502378	REBUILD EXISTING HANDHOLE TO HEAVY-DUTY HANDHOLE	EACH	6	6					
70300280	TEMPORARY PAVEMENT MARKING - LINE 24"	FOOT	564	564						X0322936	REMOVE EXISTING FLARED END SECTION	EACH	3		3				
70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	5933	5933						X0326763	REMOVE GRATING	EACH	1		1				
* 72400500	RELOCATE SIGN PANEL ASSEMBLY - TYPE A	EACH	1	1						X2020110	GRADING AND SHAPING SHOULDERS	UNIT	238.5		238.5				
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	50 FT	947	947						X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	1		1				
* 72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	8	8						X4400100	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (VARIABLE DEPTH)	50 YD	2222		2222				
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	77163	77163						* X5537800	STORM SEWERS TO BE CLEANED 12"	FOOT	350		350				
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	4089	4089						X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	10		10				
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	1657	1657						X7030005	TEMPORARY PAVEMENT MARKING REMOVAL	50 FT	33473		33473				
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	564	564						Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	964		964				
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	825	825						Z0013798	CONSTRUCTION LAYOUT	LSUM	1		1				
78300200	RAISED REFLECTIVE PAVEMENT MARKER REMOVAL	EACH	660	660															
* 85000200	MAINTENANCE OF EXISTING TRAFFIC SIGNAL INSTALLATION	EACH	3	3															
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	1881	1881															

FILE NAME :	USER NAME : doranad	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 83; HIGHWOOD DR. TO IL. RTE. 83 (127th ST.) SUMMARY OF QUANTITIES	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
OFFICE: District 11 Project 01055/CA/DD/10/Design/0065/	DESIGNED -	REVISED -	344			(524-1&2) RS	COOK	47	6	
PLOT SCALE = 100,0000 = 1" = 100'	CHECKED -	REVISED -	CONTRACT NO. 60L98							
PLOT DATE = 4/11/2011	DATE -	REVISED -	FED. ROAD DIST. NO. 1 (ILLINOIS) FED. AID PROJECT							

14 * Specialty Item Non PARTS SPATIAL NG

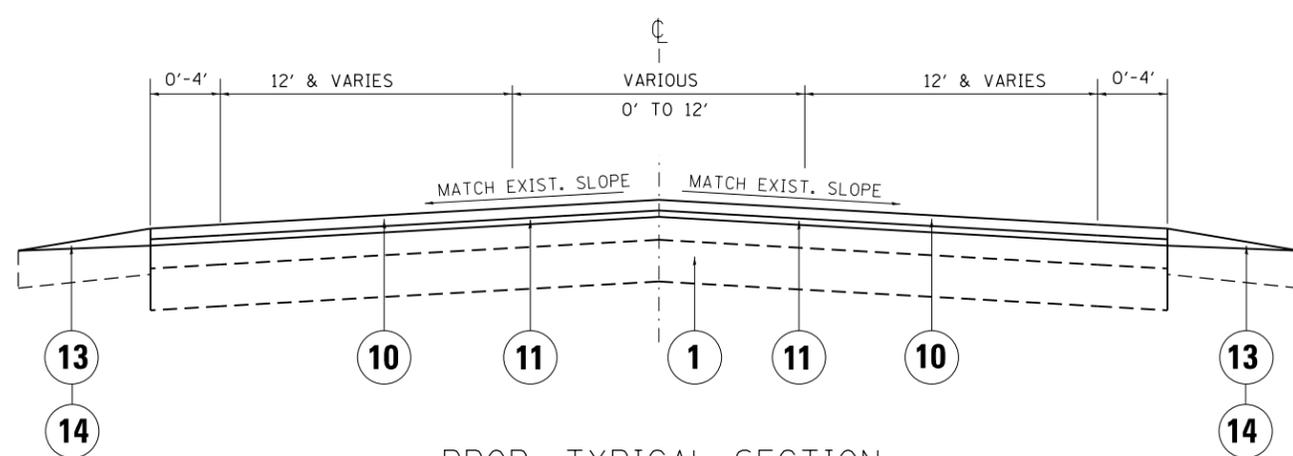
IL ROUTE 83



EXIST. TYPICAL SECTION

STA. 96+52.5 TO STA. 110+30
 STA. 135+00 TO STA. 175+39
 STA. 187+48.5 TO 304+91.5

IL ROUTE 83



PROP. TYPICAL SECTION

STA. 96+52.5 TO STA. 110+30
 STA. 135+00 TO STA. 175+39
 STA. 187+48.5 TO 304+91.5

LEGEND

- ① EXIST. PCC PAVEMENT, ± 9"
- ② EXIST. PCC SIDEWALK, 5" (TYP.)
- ③ EXIST. MOUNTABLE CORRUGATED MEDIAN
- ④ EXIST. COMB. CURB AND GUTTER
- ⑤ EXIST. AGGREGATE SHOULDER
- ⑥ PROP. MEDIAN REMOVAL, PARTIAL DEPTH
- ⑦ PROP. PORTLAND CEMENT CONCRETE SURFACE REMOVAL, (VARIABLE DEPTH) (SEE BD-33)
- ⑧ PROP. HMA SURFACE REMOVAL, 2 1/2"
- ⑨ EXIST. HMA AFTER MILLING, ± 7"
- ⑩ PROP. POLY. HMA SURFACE COURSE, MIX "E", N70, 1 3/4"
- ⑪ PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
- ⑫ PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- ⑬ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
- ⑭ PROP. GRADING AND SHAPING SHOULDERS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ Nos	QMP
--------------	-----------------	-----

ROADWAY RESURFACING:

POLY. HMA SURFACE COURSE, MIX "E", N70, 1 3/4"	4% AT 70 GYR.	QCP
POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% AT 50 GYR.	QCP

HOT-MIX ASPHALT PATCHING:

CLASS D PATCHES (HMA BINDER IL-19 mm)	4% AT 70 GYR.	QC/QA
---------------------------------------	---------------	-------

QMP Designation: Quality Control/Quality Assurance (QC/QA);
 Quality Control for Performance (QCP); Pay for Performance (PFP)

NOTES:

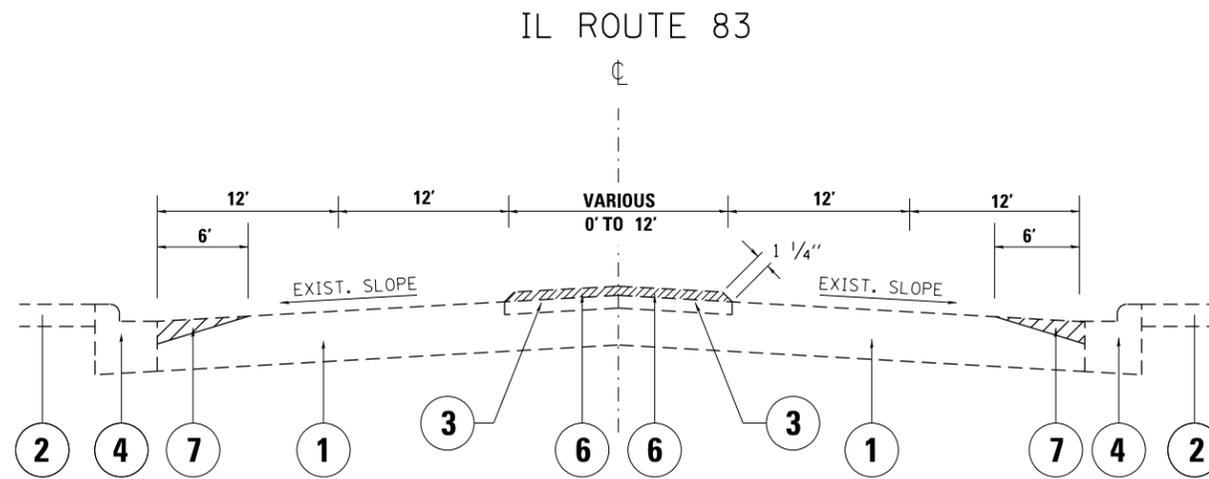
THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.

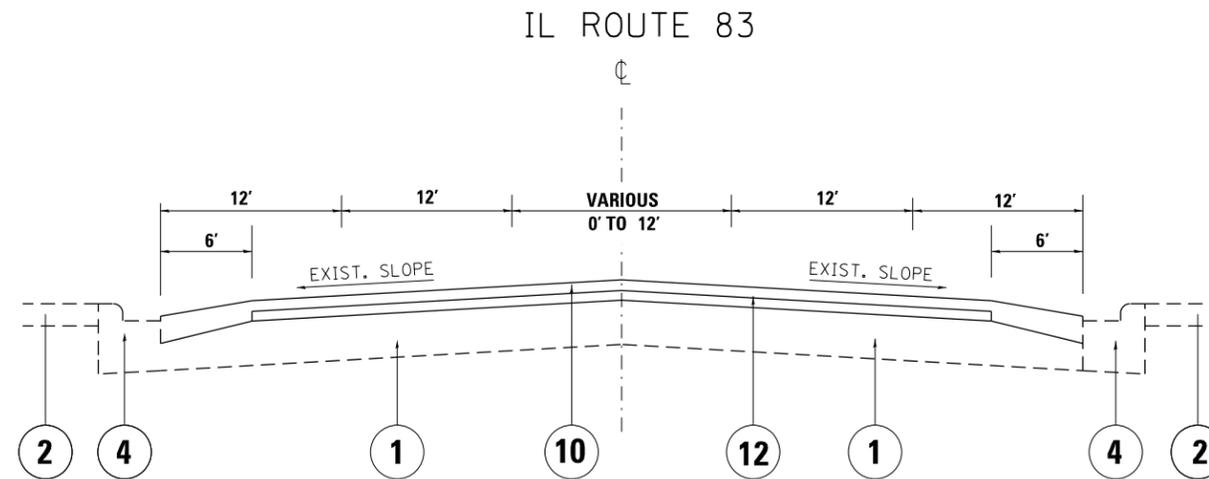
QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

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



EXIST. TYPICAL SECTION
 STA. 175+39 TO STA. 181+09
 STA. 182+24 TO STA. 187+48.5

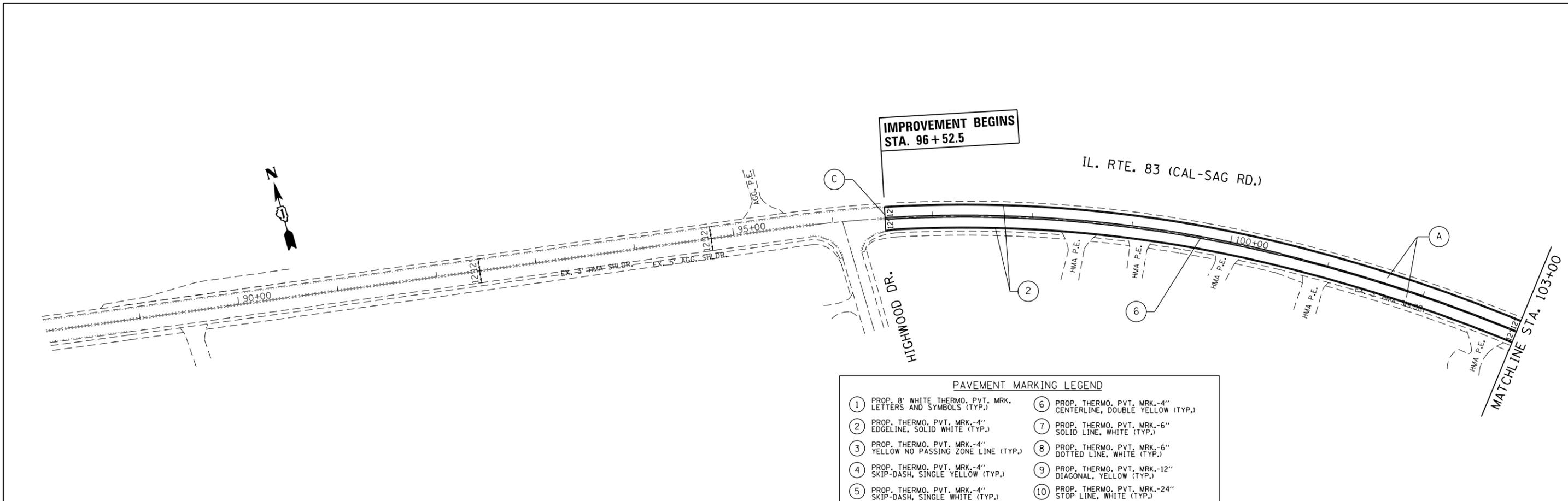
- LEGEND**
- ① EXIST. PCC PAVEMENT, ± 9"
 - ② EXIST. PCC SIDEWALK, 5" (TYP.)
 - ③ EXIST. MOUNTABLE CORRUGATED MEDIAN
 - ④ EXIST. COMB. CURB AND GUTTER
 - ⑤ EXIST. AGGREGATE SHOULDER
 - ⑥ PROP. MEDIAN REMOVAL, PARTIAL DEPTH (SEE ROADWAY PLAN FOR EXACT LOCATION)
 - ⑦ PROP. PORTLAND CEMENT CONCRETE SURFACE REMOVAL, (VARIABLE DEPTH) (SEE BD-33)
 - ⑧ PROP. HMA SURFACE REMOVAL, 2 1/2"
 - ⑨ EXIST. HMA AFTER MILLING, ± 7"
 - ⑩ PROP. POLY. HMA SURFACE COURSE, MIX "E", N70, 1 3/4"
 - ⑪ PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
 - ⑫ PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
 - ⑬ PROP. AGGREGATE WEDGE SHOULDER, TYPE B
 - ⑭ PROP. GRADING AND SHAPING SHOULDERS



PROP. TYPICAL SECTION
 STA. 175+39 TO STA. 181+09
 STA. 182+24 TO STA. 187+48.5

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

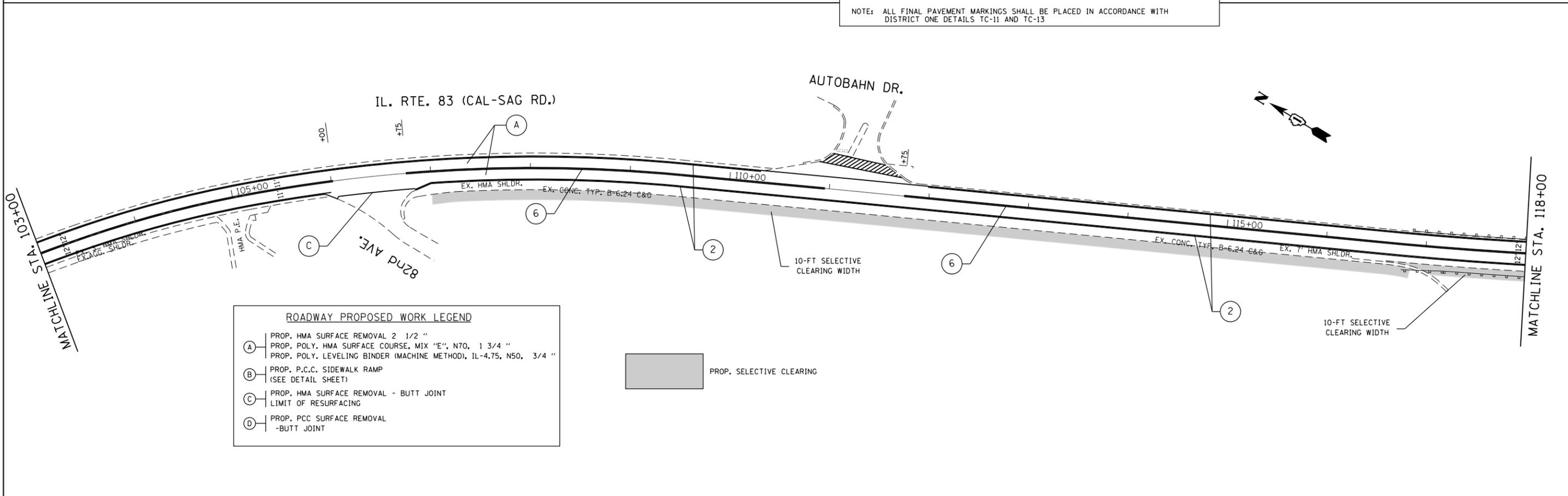
FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 83 (CALUMET-SAG RD.) HIGHWOOD DR. TO IL. RTE. 83 (127th ST.)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI084EBIDINTEG\Drawings\Design\DI06511-sh-t-plan.dgn	DRAWN	REVISED -	REVISED -			344	(524-1&2) RS	COOK	47	10	
PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -	REVISED -			CONTRACT NO. 60L98					
PLOT DATE = 4/4/2017	DATE -	REVISED -	REVISED -			SCALE:	SHEET NO.	OF SHEETS	STA.	TO STA.	FED. ROAD DIST. NO.



PAVEMENT MARKING LEGEND

① PROP. 8' WHITE THERMO, PVT. MRK. LETTERS AND SYMBOLS (TYP.)	⑥ PROP. THERMO, PVT. MRK.-4" CENTERLINE, DOUBLE YELLOW (TYP.)
② PROP. THERMO, PVT. MRK.-4" EDGELINE, SOLID WHITE (TYP.)	⑦ PROP. THERMO, PVT. MRK.-6" SOLID LINE, WHITE (TYP.)
③ PROP. THERMO, PVT. MRK.-4" YELLOW NO PASSING ZONE LINE (TYP.)	⑧ PROP. THERMO, PVT. MRK.-6" DOTTED LINE, WHITE (TYP.)
④ PROP. THERMO, PVT. MRK.-4" SKIP-DASH, SINGLE YELLOW (TYP.)	⑨ PROP. THERMO, PVT. MRK.-12" DIAGONAL, YELLOW (TYP.)
⑤ PROP. THERMO, PVT. MRK.-4" SKIP-DASH, SINGLE WHITE (TYP.)	⑩ PROP. THERMO, PVT. MRK.-24" STOP LINE, WHITE (TYP.)

NOTE: ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13

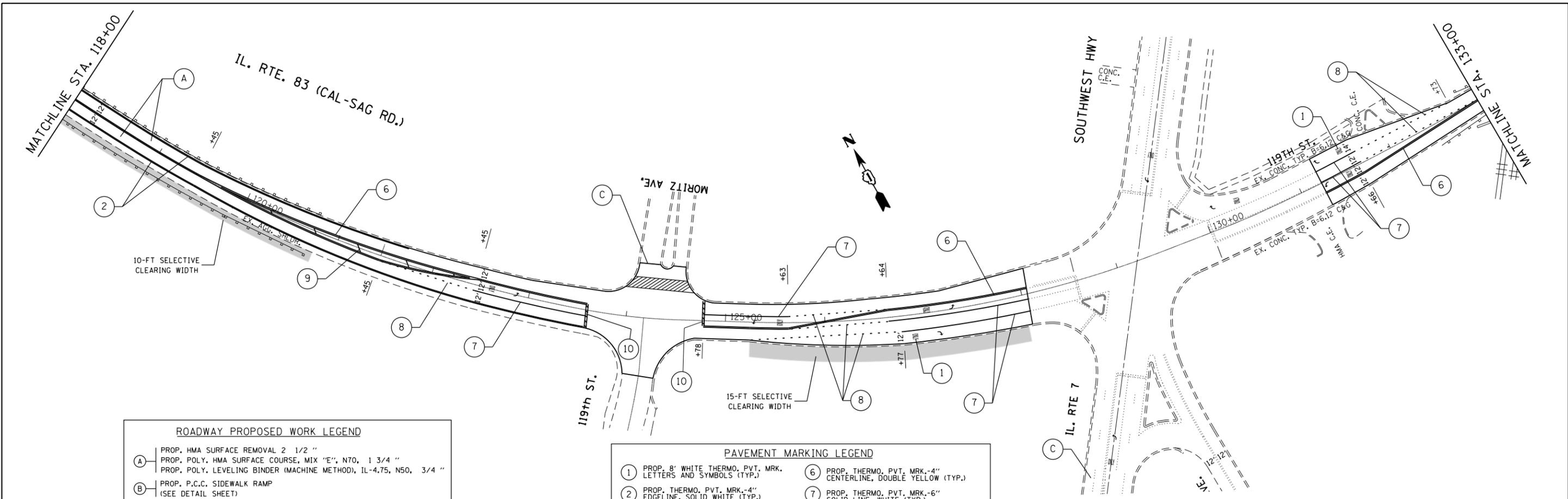


ROADWAY PROPOSED WORK LEGEND

Ⓐ	PROP. HMA SURFACE REMOVAL 2 1/2 "
	PROP. POLY. HMA SURFACE COURSE, MIX "E", N70, 1 3/4 "
	PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4 "
Ⓑ	PROP. P.C.C. SIDEWALK RAMP (SEE DETAIL SHEET)
Ⓒ	PROP. HMA SURFACE REMOVAL - BUTT JOINT LIMIT OF RESURFACING
Ⓓ	PROP. PCC SURFACE REMOVAL - BUTT JOINT

PROP. SELECTIVE CLEARING

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE 83 (CALUMET-SAG RD.) HIGHWOOD DR. TO IL. RTE. 83 (127th ST.)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
						344	(524-1&2)RS	COOK	47	11
						CONTRACT NO. 60L98				
Default	PLOT DATE = 4/4/2017	DATE -	REVISED -	SCALE: 1"=50'	SHEET OF SHEETS	STA. TO STA. 118+00	ILLINOIS FED. AID PROJECT			



ROADWAY PROPOSED WORK LEGEND

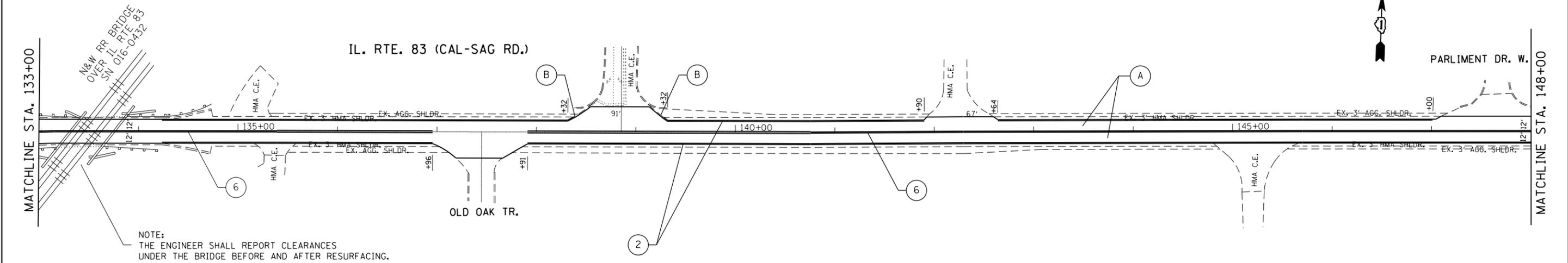
(A)	PROP. HMA SURFACE REMOVAL 2 1/2"
(B)	PROP. POLY. HMA SURFACE COURSE, MIX "E", N70, 1 3/4"
(C)	PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
(D)	PROP. P.C.C. SIDEWALK RAMP (SEE DETAIL SHEET)
(E)	PROP. HMA SURFACE REMOVAL - BUTT JOINT LIMIT OF RESURFACING
(F)	PROP. PCC SURFACE REMOVAL - BUTT JOINT



PAVEMENT MARKING LEGEND

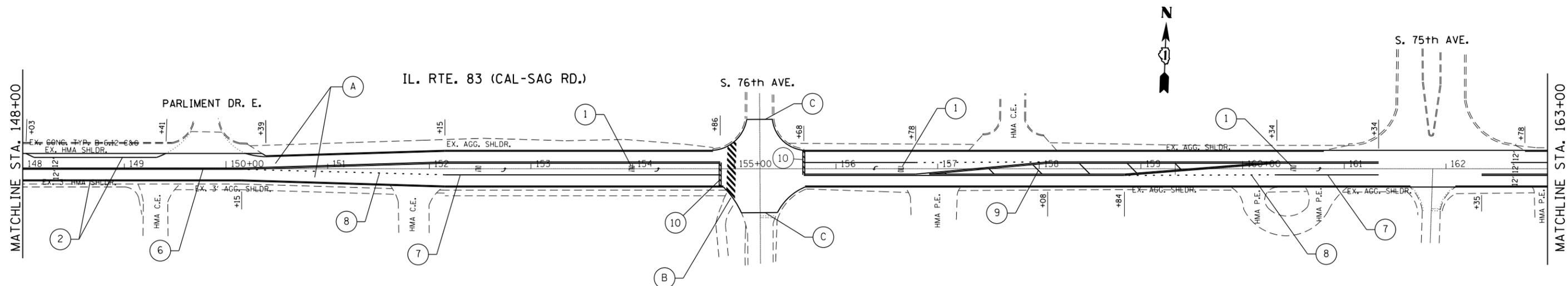
(1)	PROP. 8" WHITE THERMO. PVT. MRK. LETTERS AND SYMBOLS (TYP.)	(6)	PROP. THERMO. PVT. MRK.-4" CENTERLINE, DOUBLE YELLOW (TYP.)
(2)	PROP. THERMO. PVT. MRK.-4" EDGELINE, SOLID WHITE (TYP.)	(7)	PROP. THERMO. PVT. MRK.-6" SOLID LINE, WHITE (TYP.)
(3)	PROP. THERMO. PVT. MRK.-4" YELLOW NO PASSING ZONE LINE (TYP.)	(8)	PROP. THERMO. PVT. MRK.-6" DOTTED LINE, WHITE (TYP.)
(4)	PROP. THERMO. PVT. MRK.-4" SKIP-DASH, SINGLE YELLOW (TYP.)	(9)	PROP. THERMO. PVT. MRK.-12" DIAGONAL, YELLOW (TYP.)
(5)	PROP. THERMO. PVT. MRK.-4" SKIP-DASH, SINGLE WHITE (TYP.)	(10)	PROP. THERMO. PVT. MRK.-24" STOP LINE, WHITE (TYP.)

NOTE: ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13



NOTE:
THE ENGINEER SHALL REPORT CLEARANCES UNDER THE BRIDGE BEFORE AND AFTER RESURFACING.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 83 (CALUMET-SAG RD.) HIGHWOOD DR. TO IL. RTE. 83 (127th ST.)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\IL084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\DI084EBIDINTEG\Design\DI084EBIDINTEG\118-148\118-148-plan.dgn	PLotted SCALE = 100.0000' / in.	CHECKED -	REVISED -			344	(524-1&2)RS	COOK	47	12
Default	PLotted DATE = 4/4/2017	DATE -	REVISED -			CONTRACT NO. 60L98				
						SCALE: 1"=50'	SHEET OF SHEETS	STA. 118+00 TO STA. 148+00	ILLINOIS FED. AID PROJECT	



ROADWAY PROPOSED WORK LEGEND

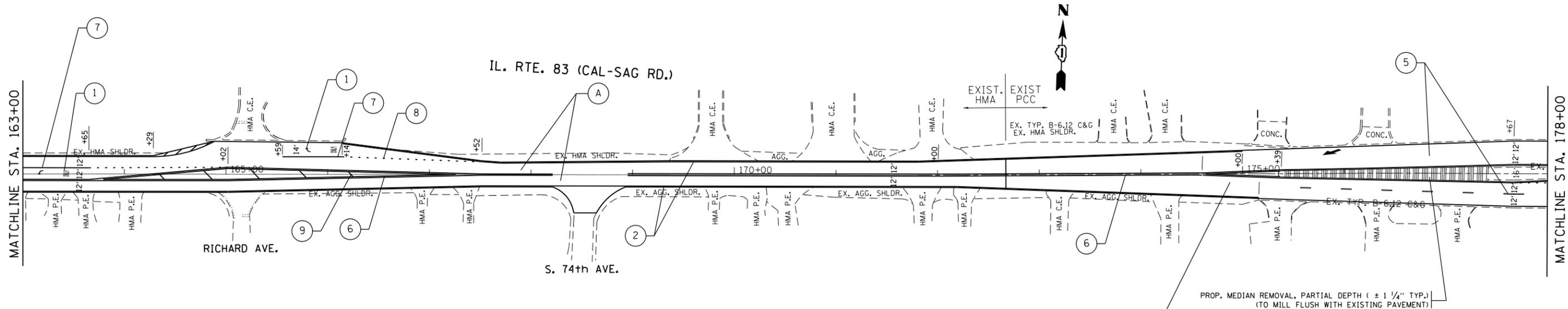
(A)	PROP. HMA SURFACE REMOVAL 2 1/2"
(A)	PROP. POLY. HMA SURFACE COURSE, MIX "E", N70, 1 3/4"
(A)	PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
(B)	PROP. P.C.C. SIDEWALK RAMP (SEE DETAIL SHEET)
(C)	PROP. HMA SURFACE REMOVAL - BUTT JOINT LIMIT OF RESURFACING
(D)	PROP. PCC SURFACE REMOVAL - BUTT JOINT



PAVEMENT MARKING LEGEND

(1)	PROP. 8' WHITE THERMO. PVT. MRK. LETTERS AND SYMBOLS (TYP.)	(6)	PROP. THERMO. PVT. MRK.-4" CENTERLINE, DOUBLE YELLOW (TYP.)
(2)	PROP. THERMO. PVT. MRK.-4" EDGELINE, SOLID WHITE (TYP.)	(7)	PROP. THERMO. PVT. MRK.-6" SOLID LINE, WHITE (TYP.)
(3)	PROP. THERMO. PVT. MRK.-4" YELLOW NO PASSING ZONE LINE (TYP.)	(8)	PROP. THERMO. PVT. MRK.-6" DOTTED LINE, WHITE (TYP.)
(4)	PROP. THERMO. PVT. MRK.-4" SKIP-DASH, SINGLE YELLOW (TYP.)	(9)	PROP. THERMO. PVT. MRK.-12" DIAGONAL, YELLOW (TYP.)
(5)	PROP. THERMO. PVT. MRK.-4" SKIP-DASH, SINGLE WHITE (TYP.)	(10)	PROP. THERMO. PVT. MRK.-24" STOP LINE, WHITE (TYP.)

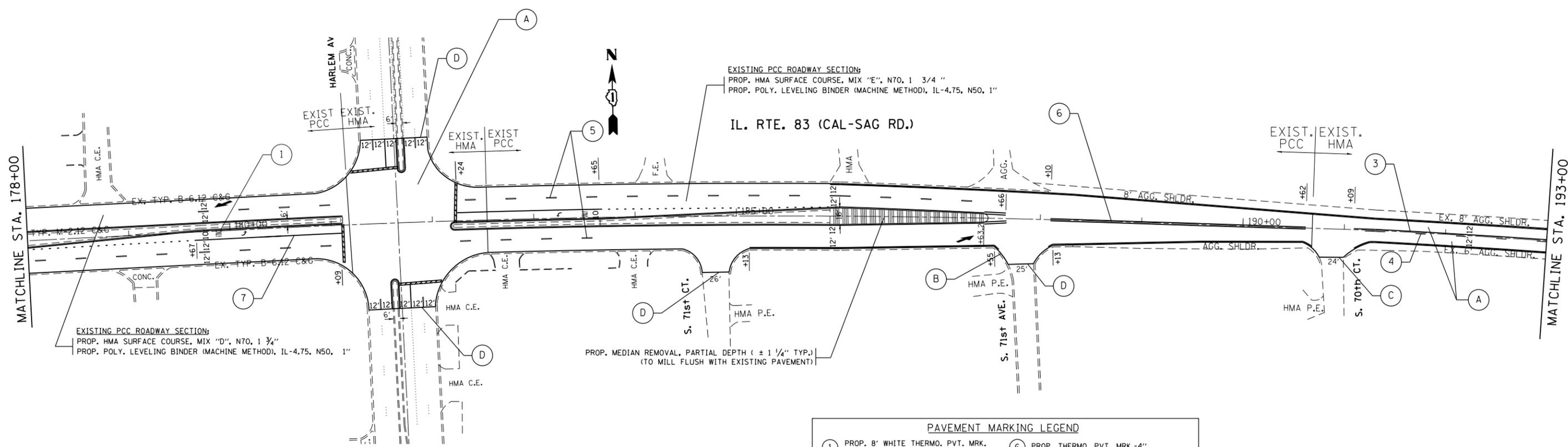
NOTE: ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13



PROP. MEDIAN REMOVAL, PARTIAL DEPTH (± 1 1/4" TYP.) (TO MILL FLUSH WITH EXISTING PAVEMENT)

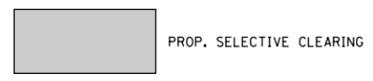
EXISTING PCC ROADWAY SECTION:
 PROP. HMA SURFACE COURSE, MIX "E", N70, 1 3/4"
 PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 83 (CALUMET-SAG RD.) HIGHWOOD DR. TO IL. RTE. 83 (127th ST.)	F.A.P. RTE. 344	SECTION (524-1&2)RS	COUNTY COOK	TOTAL SHEETS 47	SHEET NO. 13		
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI084EBIDINTEG\Drawings\Design\DI084EBIDINTEG\127th St\127th St - Plan.dgn	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			SCALE: 1"=50'		SHEET OF SHEETS STA. 148+00 TO STA. 178+00		CONTRACT NO. 60L98		
Default	PLOT DATE = 4/4/2017	DATE -	REVISED -			ILLINOIS FED. AID PROJECT						



ROADWAY PROPOSED WORK LEGEND

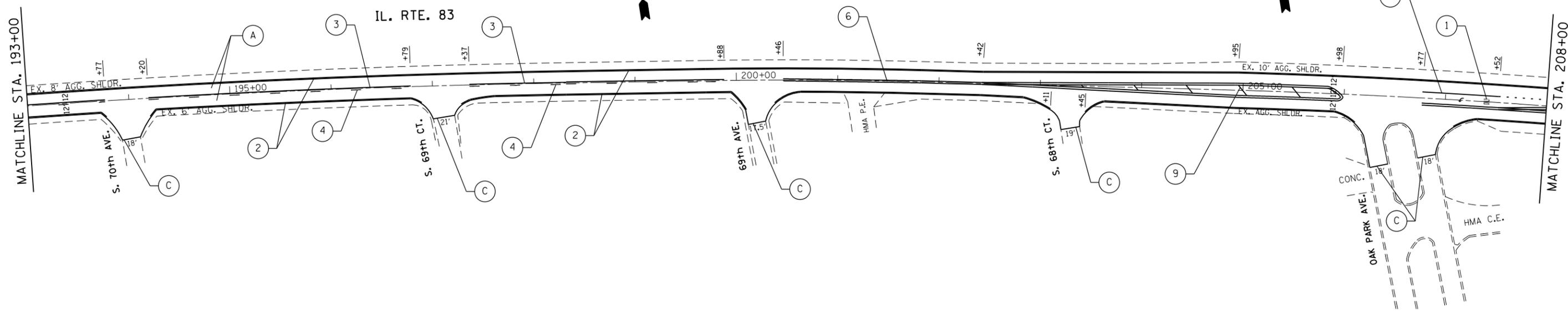
(A)	PROP. HMA SURFACE REMOVAL 2 1/2"
	PROP. POLY. HMA SURFACE COURSE, MIX "E", N70, 1 3/4"
	PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
(B)	PROP. P.C.C. SIDEWALK RAMP (SEE DETAIL SHEET)
(C)	PROP. HMA SURFACE REMOVAL - BUTT JOINT LIMIT OF RESURFACING
(D)	PROP. PCC SURFACE REMOVAL -BUTT JOINT



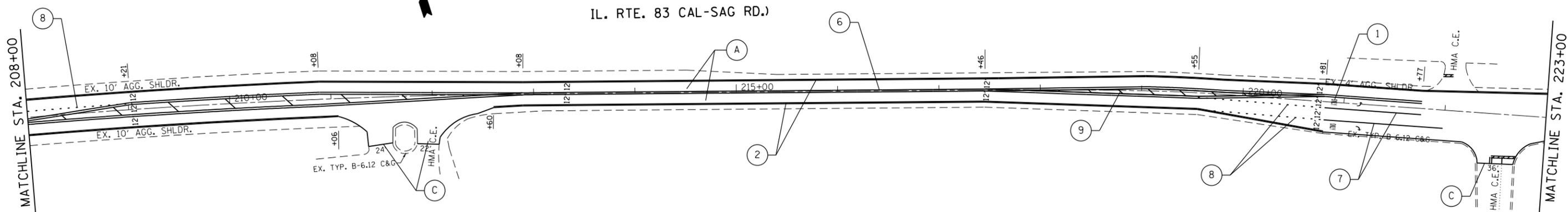
PAVEMENT MARKING LEGEND

(1)	PROP. 8" WHITE THERMO. PVT. MRK. LETTERS AND SYMBOLS (TYP.)	(6)	PROP. THERMO. PVT. MRK.-4" CENTERLINE, DOUBLE YELLOW (TYP.)
(2)	PROP. THERMO. PVT. MRK.-4" EDGELINE, SOLID WHITE (TYP.)	(7)	PROP. THERMO. PVT. MRK.-6" SOLID LINE, WHITE (TYP.)
(3)	PROP. THERMO. PVT. MRK.-4" YELLOW NO PASSING ZONE LINE (TYP.)	(8)	PROP. THERMO. PVT. MRK.-6" DOTTED LINE, WHITE (TYP.)
(4)	PROP. THERMO. PVT. MRK.-4" SKIP-DASH, SINGLE YELLOW (TYP.)	(9)	PROP. THERMO. PVT. MRK.-12" DIAGONAL, YELLOW (TYP.)
(5)	PROP. THERMO. PVT. MRK.-4" SKIP-DASH, SINGLE WHITE (TYP.)	(10)	PROP. THERMO. PVT. MRK.-24" STOP LINE, WHITE (TYP.)

NOTE: ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13



FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 83 (CALUMET-SAG RD.) HIGHWOOD DR. TO IL. RTE. 83 (127th ST.)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI085\Drawings\Design\DI06511-shr-plan.dgn		CHECKED -	REVISED -			344	(524-1&2)RS	COOK	47	14	
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -			CONTRACT NO. 60L98					
Default						ILLINOIS FED. AID PROJECT					



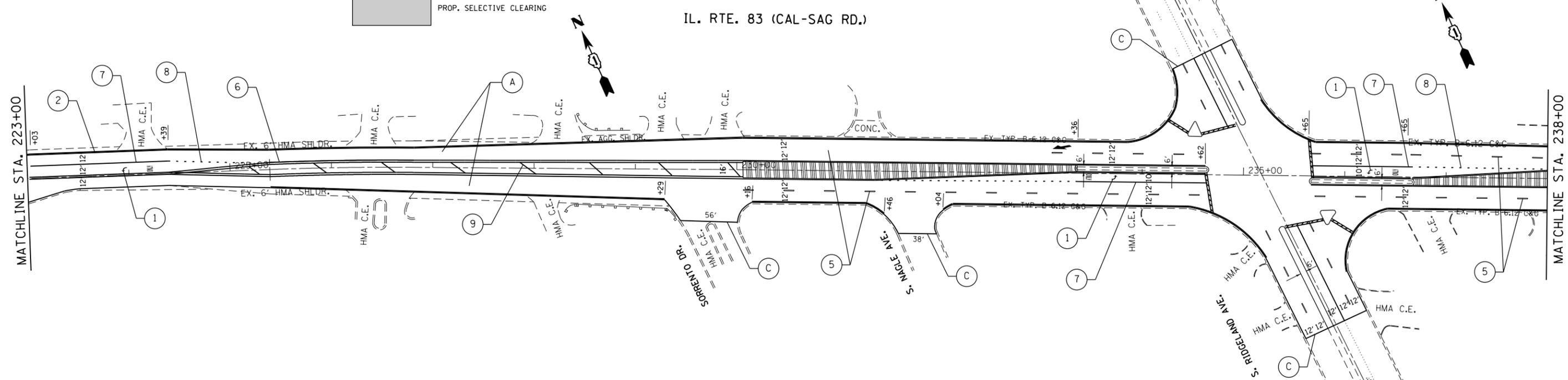
ROADWAY PROPOSED WORK LEGEND

(A)	PROP. HMA SURFACE REMOVAL 2 1/2"
	PROP. POLY. HMA SURFACE COURSE, MIX "E", N70, 1 3/4"
	PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
(B)	PROP. P.C.C. SIDEWALK RAMP (SEE DETAIL SHEET)
(C)	PROP. HMA SURFACE REMOVAL - BUTT JOINT LIMIT OF RESURFACING
(D)	PROP. PCC SURFACE REMOVAL -BUTT JOINT

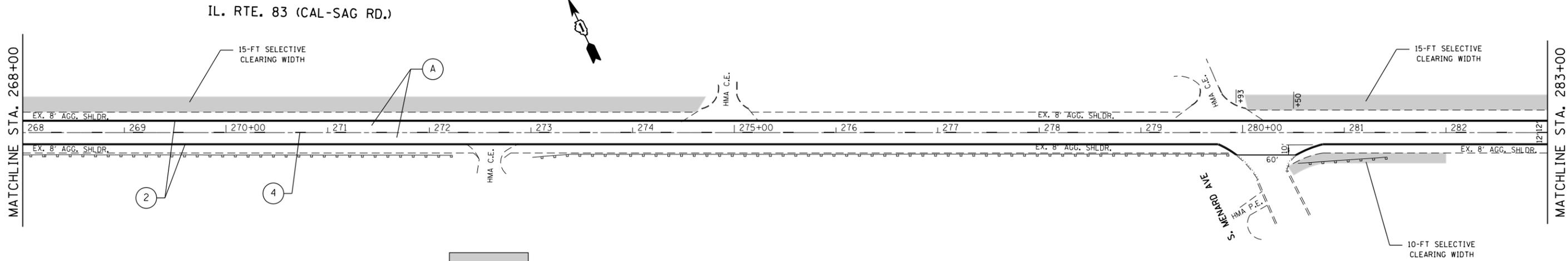
PAVEMENT MARKING LEGEND

(1)	PROP. 8' WHITE THERMO. PVT. MRK. LETTERS AND SYMBOLS (TYP.)	(6)	PROP. THERMO. PVT. MRK.-4" CENTERLINE, DOUBLE YELLOW (TYP.)
(2)	PROP. THERMO. PVT. MRK.-4" EDGELINE, SOLID WHITE (TYP.)	(7)	PROP. THERMO. PVT. MRK.-6" SOLID LINE, WHITE (TYP.)
(3)	PROP. THERMO. PVT. MRK.-4" YELLOW NO PASSING ZONE LINE (TYP.)	(8)	PROP. THERMO. PVT. MRK.-6" DOTTED LINE, WHITE (TYP.)
(4)	PROP. THERMO. PVT. MRK.-4" SKIP-DASH, SINGLE YELLOW (TYP.)	(9)	PROP. THERMO. PVT. MRK.-12" DIAGONAL, YELLOW (TYP.)
(5)	PROP. THERMO. PVT. MRK.-4" SKIP-DASH, SINGLE WHITE (TYP.)	(10)	PROP. THERMO. PVT. MRK.-24" STOP LINE, WHITE (TYP.)

NOTE: ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13



FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 83 (CALUMET-SAG RD.) HIGHWOOD DR. TO IL. RTE. 83 (127th ST.)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI084EBIDINTEG\Design\DI084EBIDINTEG\127th St\plan.dgn	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED -			344	(524-1&2)RS	COOK	47	15
Default	PLOT DATE = 4/4/2017	DATE -	REVISED -			CONTRACT NO. 60L98				
						SCALE: 1"=50'		SHEET OF SHEETS		STA. 208+00 TO STA. 238+00



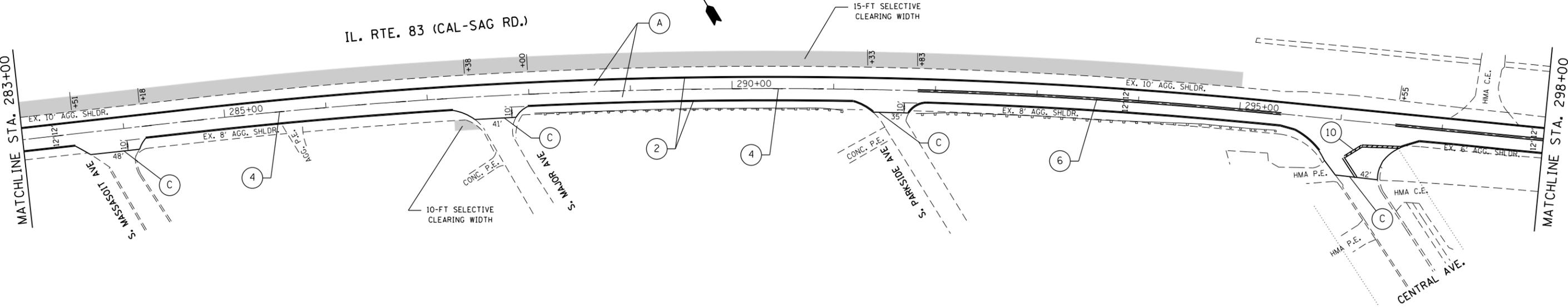
ROADWAY PROPOSED WORK LEGEND

(A)	PROP. HMA SURFACE REMOVAL 2 1/2"
	PROP. POLY. HMA SURFACE COURSE, MIX "E", N70, 1 3/4"
	PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4"
(B)	PROP. P.C.C. SIDEWALK RAMP (SEE DETAIL SHEET)
(C)	PROP. HMA SURFACE REMOVAL - BUTT JOINT LIMIT OF RESURFACING
(D)	PROP. PCC SURFACE REMOVAL -BUTT JOINT

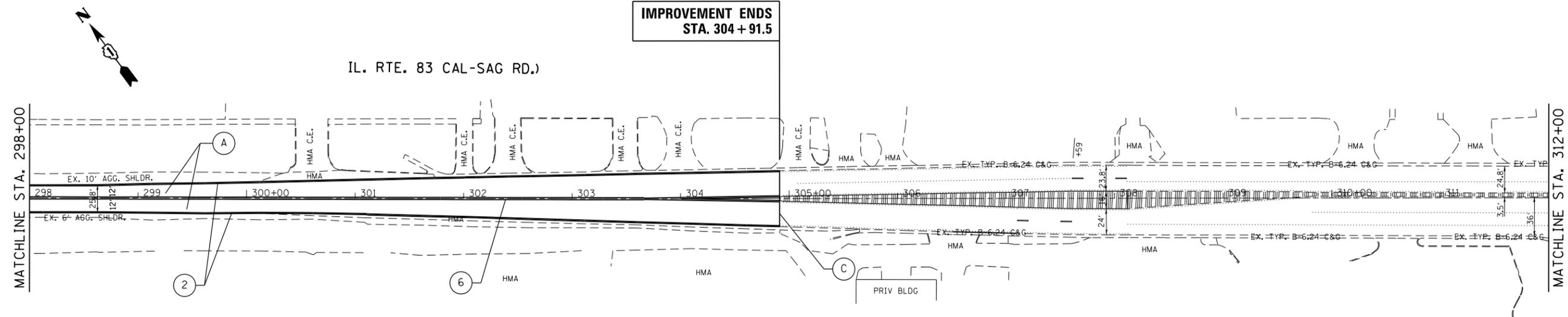
PAVEMENT MARKING LEGEND

(1)	PROP. 8" WHITE THERMO. PVT. MRK. LETTERS AND SYMBOLS (TYP.)	(6)	PROP. THERMO. PVT. MRK.-4" CENTERLINE, DOUBLE YELLOW (TYP.)
(2)	PROP. THERMO. PVT. MRK.-4" EDGELINE, SOLID WHITE (TYP.)	(7)	PROP. THERMO. PVT. MRK.-6" SOLID LINE, WHITE (TYP.)
(3)	PROP. THERMO. PVT. MRK.-4" YELLOW NO PASSING ZONE LINE (TYP.)	(8)	PROP. THERMO. PVT. MRK.-6" DOTTED LINE, WHITE (TYP.)
(4)	PROP. THERMO. PVT. MRK.-4" SKIP-DASH, SINGLE YELLOW (TYP.)	(9)	PROP. THERMO. PVT. MRK.-12" DIAGONAL, YELLOW (TYP.)
(5)	PROP. THERMO. PVT. MRK.-4" SKIP-DASH, SINGLE WHITE (TYP.)	(10)	PROP. THERMO. PVT. MRK.-24" STOP LINE, WHITE (TYP.)

NOTE: ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13



FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 83 (CALUMET-SAG RD.) HIGHWOOD DR. TO IL. RTE. 83 (127th ST.)			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\IDOT Offices\District 1\Projects\DI084EBIDINTEG\Drawings\Design\DI084EBIDINTEG\11-shr-plan.dgn		CHECKED -	REVISED -		344	(524-1&2)RS	COOK	47	17			
PLOT SCALE = 100.0000' / in.		DATE -	REVISED -		SCALE: 1"=50'			SHEET OF SHEETS STA. 268+00 TO STA. 298+00		CONTRACT NO. 60L98		
Default	PLOT DATE = 4/4/2017				ILLINOIS FED. AID PROJECT							



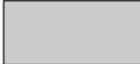
ROADWAY PROPOSED WORK LEGEND

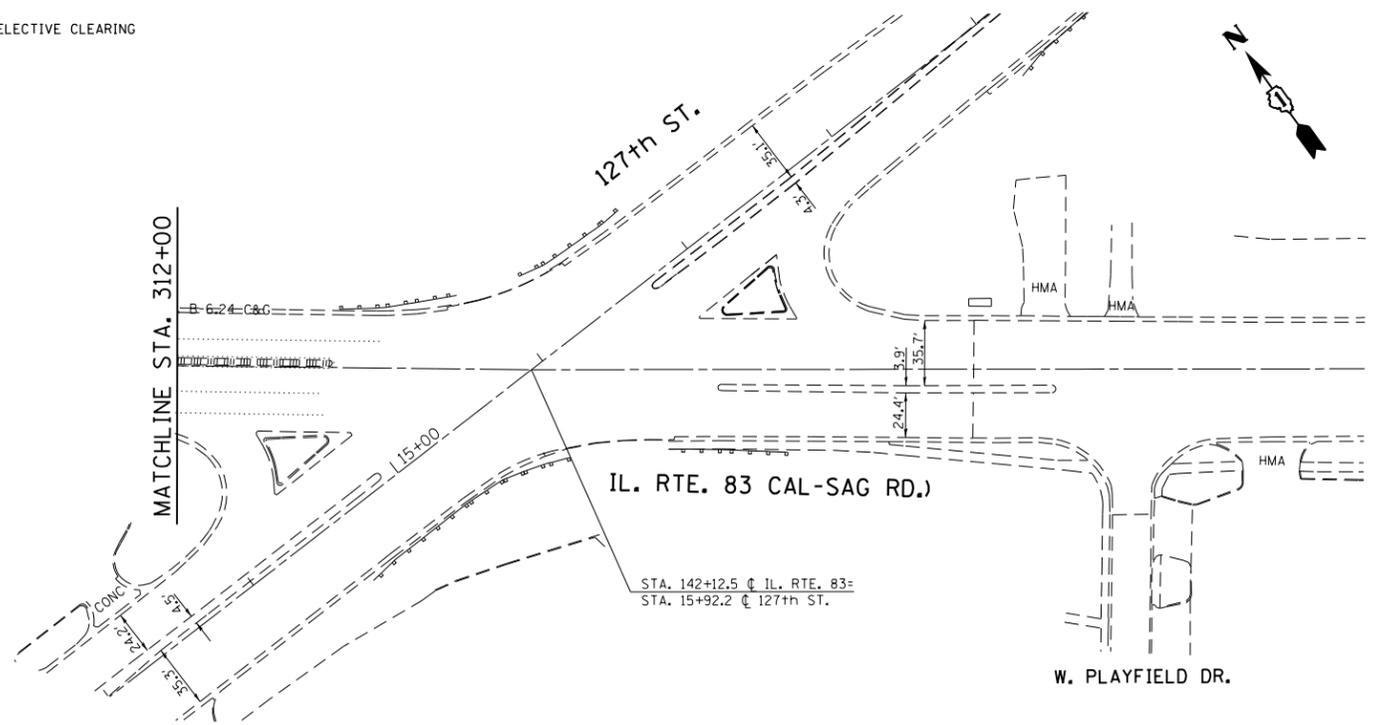
(A)	PROP. HMA SURFACE REMOVAL 2 1/2 "
	PROP. POLY. HMA SURFACE COURSE, MIX "E", N70, 1 3/4 "
	PROP. POLY. LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/4 "
(B)	PROP. P.C.C. SIDEWALK RAMP (SEE DETAIL SHEET)
(C)	PROP. HMA SURFACE REMOVAL - BUTT JOINT LIMIT OF RESURFACING
(D)	PROP. PCC SURFACE REMOVAL - BUTT JOINT

PAVEMENT MARKING LEGEND

(1)	PROP. 8" WHITE THERMO. PVT. MRK. LETTERS AND SYMBOLS (TYP.)	(6)	PROP. THERMO. PVT. MRK.-4" CENTERLINE, DOUBLE YELLOW (TYP.)
(2)	PROP. THERMO. PVT. MRK.-4" EDGELINE, SOLID WHITE (TYP.)	(7)	PROP. THERMO. PVT. MRK.-6" SOLID LINE, WHITE (TYP.)
(3)	PROP. THERMO. PVT. MRK.-4" YELLOW NO PASSING ZONE LINE (TYP.)	(8)	PROP. THERMO. PVT. MRK.-6" DOTTED LINE, WHITE (TYP.)
(4)	PROP. THERMO. PVT. MRK.-4" SKIP-DASH, SINGLE YELLOW (TYP.)	(9)	PROP. THERMO. PVT. MRK.-12" DIAGONAL, YELLOW (TYP.)
(5)	PROP. THERMO. PVT. MRK.-4" SKIP-DASH, SINGLE WHITE (TYP.)	(10)	PROP. THERMO. PVT. MRK.-24" STOP LINE, WHITE (TYP.)

NOTE: ALL FINAL PAVEMENT MARKINGS SHALL BE PLACED IN ACCORDANCE WITH DISTRICT ONE DETAILS TC-11 AND TC-13

 PROP. SELECTIVE CLEARING

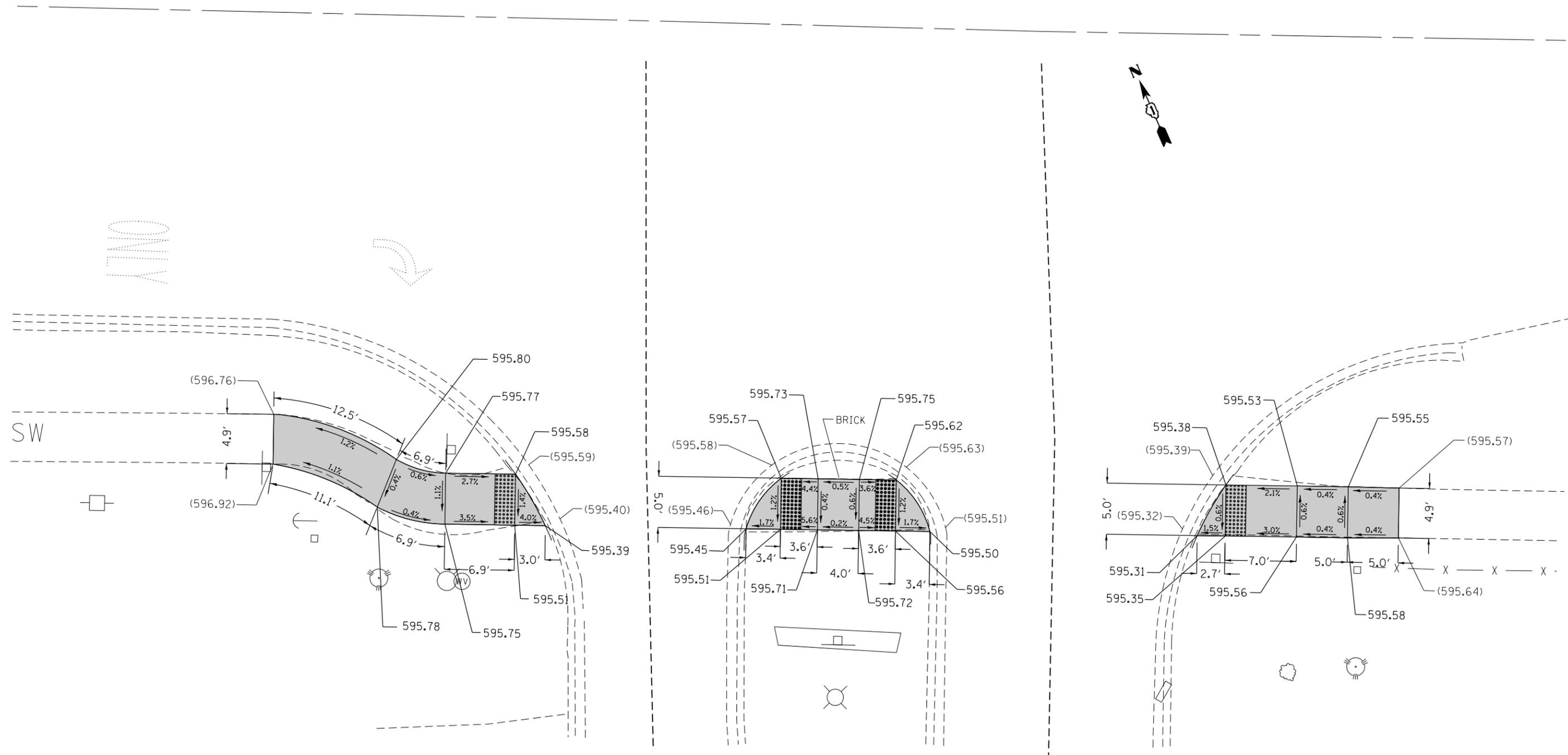


FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	IL. RTE. 83 (CALUMET-SAG RD.) HIGHWOOD DR. TO IL. RTE. 83 (127th ST.)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG\illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI085\Drawings\Design\DI08511-sht-plan.dgn		CHECKED -	REVISED -			344	(524-1&2)RS	COOK	47	18	
Default	PLOT SCALE = 100.0000' / in.	DATE -	REVISED -			CONTRACT NO. 60L98					
	PLOT DATE = 4/4/2017					SCALE: 1"=50'	SHEET	OF	SHEETS	STA. 298+00	TO STA.

HARTS ROAD INTERSECTION	EARTH EXCAVATION	TOPSOIL FURNISH AND PLACE, 4"	SODDING, SALT TOLERANT	SUPPLEMENTAL WATERING	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	DETECTABLE WARNINGS	SIDEWALK REMOVAL	FRAMES AND LIDS TO BE ADJUSTED	VALVE BOXES TO BE ADJUSTED	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT
	CU YD	SQ YD	SQ YD	UNIT	SQ FT	SQ FT	SQ FT	EACH	EACH	FOOT
	20200100	21101615	25200110	25200200	42400200	42400800	44000600	60300305	60266600	Z0004562
76TH STREET	2	35	35	0.5	287	20	287	2	1	0
PRINCETON LANE (WEST)	4	26	26	0.25	200	10	200	0	0	36
PRINCETON LANE (EAST)	4	24	24	0.25	200	10	200	0	0	36
TOTAL:	10	85	85	1	687	40	687	2	1	72

NOTE: RESTORATION (SODDING AND TOPSOIL) LIMITS ARE SHOWN ON THE SITE PLANS WHEN SIDEWALK IS REMOVED AND REPLACED WITH SOD. HOWEVER, FOR RESTORATION AROUND NEW SIDEWALK, QUANTITY IS PROVIDED BUT IS NOT SHOWN ON THE SITE PLANS.

IL. RTE. 83 (HIGHWOOD DR.)



REFERENCE BENCHMARK ELEV = 597.208
 BENCHMARK LOCATION: N.W. BOLT ON FIRE HYDRANT ON THE SOUTHWEST CORNER OF INTERSECTION.

LEGEND

xx.xx'

EXISTING LENGTH

====

PROPOSED SIDE CURB

()

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL
 REPLACE W/TOPSOIL & SOD

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -
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Default	PLOT DATE = 5/5/2017	DATE -	REVISED -

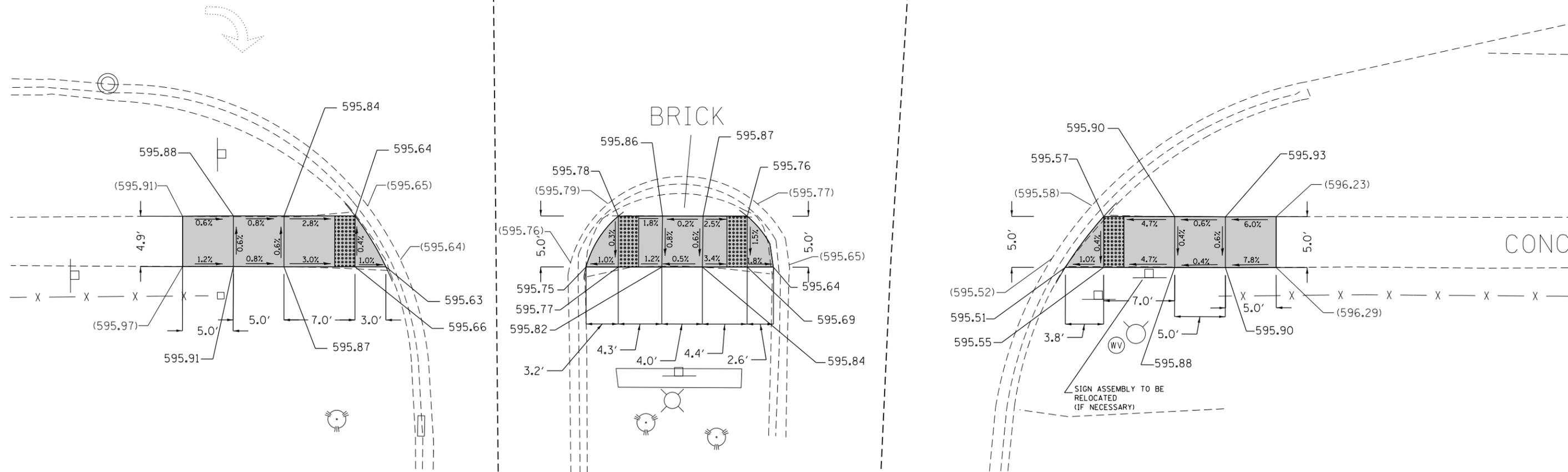
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (CALUMET-SAG RD.): HIGHWOOD DR. TO IL. RTE. 83 (127th ST.)
 SIDEWALK RAMP DETAIL: PRINCETON LANE (WEST)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	(524-1&2)RS	COOK	47	21
CONTRACT NO. 60L98				
ILLINOIS FED. AID PROJECT				

IL. RTE. 83 (HIGHWOOD DR.)



REFERENCE BENCHMARK ELEV = 597.388
 BENCHMARK LOCATION: S.E. BOLT ON FIRE HYDRANT ON THE SOUTHEAST CORNER OF INTERSECTION.

LEGEND

xx.xx'

EXISTING LENGTH

==

PROPOSED SIDE CURB

()

EXISTING ELEVATION/SLOPE



PROPOSED SIDEWALK



DETECTABLE WARNINGS



SIDEWALK REMOVAL
 REPLACE W/TOPSOIL & SOD

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -
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Default	PLOT SCALE = 10.0000' / in.	CHECKED -	REVISED -
	PLOT DATE = 5/5/2017	DATE -	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (CALUMET-SAG RD.): HIGHWOOD DR. TO IL. RTE. 83 (127th ST.)
 SIDEWALK RAMP DETAIL: PRINCETON LANE (EAST)

SCALE: SHEET OF SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	(524-1&2)RS	COOK	47	22
CONTRACT NO. 60L98				
ILLINOIS FED. AID PROJECT				

DRAINAGE GENERAL NOTES

1. GENERAL SAFETY PROVISIONS: TO PROVIDE IDOT AND CROSSROAD PATRONS SAFE TRAVEL CONDITIONS DURING THIS CONSTRUCTION PROJECT, AND TO PROVIDE SAFE WORKING CONDITIONS FOR ALL EMPLOYEES, BOTH OF IDOT AND PRIVATE CONTRACTOR, THE RULES, REGULATIONS, AND CONDITIONS STATED BELOW WILL PREVAIL FOR THE DURATION OF THIS CONTRACT.
 - a. ALL VEHICLES INCLUDING PASSENGER CARS, WHETHER OWNED BY THE CONTRACTOR OR ANYONE REPRESENTING HIM, SHALL BE EQUIPPED WITH A YELLOW FLASHING LIGHT MOUNTED EITHER ON TOP OR IN THE REAR WINDOW OF THE VEHICLE AND VISIBLE FOR AT LEAST 500 FEET TO THE REAR OF THE VEHICLE. IN ADDITION, A SIGN MUST BE DISPLAYED ON EACH SIDE OF THE VEHICLE AND WITH LETTERS AT LEAST 3 INCHES IN HEIGHT AND WITH A SUITABLE FONT, SHOWING THE COMPANY NAME AND ADDRESS. MAGNETIC OR TEMPORARY SIGNS ARE ACCEPTABLE.
2. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AND UTILITIES AT LEAST 10 DAYS PRIOR TO ANY CONSTRUCTION IN THE AREA AND SHALL COMPLY WITH ALL RESTRICTIONS FOR EQUIPMENT MOVEMENTS AND CLEARANCES IN REGARDS TO THEIR FACILITIES. THE ENGINEER OR CORRIDOR CONSTRUCTION MANAGER WILL NOTIFY ANY AGENCIES AS REQUIRED.
3. THE CONTRACTOR SHALL BE MADE AWARE THAT ALL CONSTRUCTION VEHICLES SHALL BE LIMITED TO 15 FEET ABOVE EXISTING GRADE WHILE CROSSING UNDER COMMONWEALTH EDISON'S TRANSMISSION LINES.
4. MAINTAINING DRAINAGE: IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO MAINTAIN DRAINAGE FLOWS AT ALL TIMES DURING THE PERFORMANCE OF THE WORK. METHODS USED BY THE CONTRACTOR SHALL BE SUBJECT TO APPROVAL OF THE ENGINEER.
5. THE SCALE SHOWN ON THE DRAWINGS APPLIES ONLY TO FULL SIZE PLANS AND NOT TO THE REDUCED SIZE PLANS.
6. THE LOCATIONS OF EXISTING UNDERGROUND UTILITIES, SUCH AS WATER MAIN, SEWERS, GAS LINES, ETC. AS SHOWN ON THE PLANS, HAVE BEEN DETERMINED FROM THE BEST AVAILABLE INFORMATION AND ARE GIVEN FOR THE CONVENIENCE OF THE CONTRACTOR. THE CONTRACTOR SHALL BE RESPONSIBLE FOR HAVING THE UTILITY COMPANIES LOCATE THEIR FACILITIES IN THE FIELD PRIOR TO CONSTRUCTION. THE CONTRACTOR SHALL CALL JULIE AT (800) 892-0123 FOR UTILITY LOCATIONS.
7. IT IS THE CONTRACTORS RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND DOCUMENT EXISTING CONDITIONS PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. NO ADDITIONAL COMPENSATION WILL BE ALLOWED FOR FAILURE TO VERIFY EXISTING DIMENSIONS OR CONDITIONS.
8. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE, COUNTY, OR MUNICIPAL OWNED PROPERTY WITHOUT WRITTEN PERMISSION FROM THE IDOT.
9. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.

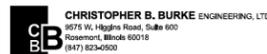
DRAINAGE SCHEDULE OF QUANTITIES

SP	PAY ITEM NUMBER	PAY ITEM NAME	UNIT OF MEASURE	TOTAL QUANTITY
	20101400	NITROGEN FERTILIZER NUTRIENT	POUND	71
	20101500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	71
	20101600	POTASSIUM FERTILIZER NUTRIENT	POUND	71
	20200100	EARTH EXCAVATION	CU YD	243
	20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	50
	20800150	TRENCH BACKFILL	CU YD	186
	21101625	TOPSOIL FURNISH AND PLACE, 6"	SQ YD	3792
	25000210	SEEDING, CLASS 2A	ACRE	0.79
	25100630	EROSION CONTROL BLANKET	SQ YD	3792
	28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	79
	28000400	PERIMETER EROSION BARRIER	FOOT	3000
	28000500	INLET AND PIPE PROTECTION	EACH	14
	28001100	TEMPORARY EROSION CONTROL BLANKET	SQ YD	3792
	28100105	STONE RIPRAP, CLASS A3	SQ YD	810
	35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	77
	40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	9
	44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	77
	44000500	COMBINATION CURB AND GUTTER REMOVAL	FOOT	28
	44201717	CLASS D PATCHES, TYPE II, 6 INCH	SQ YD	7
	44201863	CLASS D PATCHES, TYPE II, 18 INCH	SQ YD	27
	44201867	CLASS D PATCHES, TYPE III, 18 INCH	SQ YD	103
	44201869	CLASS D PATCHES, TYPE IV, 18 INCH	SQ YD	57
	48101100	AGGREGATE SHOULDERS, TYPE A 12"	SQ YD	39
	50104400	CONCRETE HEADWALL REMOVAL	EACH	2
	54001001	BOX CULVERT END SECTIONS, CULVERT NO. 1	EACH	7
	54010302	PRECAST CONCRETE BOX CULVERTS 3' X 2'	FOOT	133
	54213663	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18"	EACH	16
	54213675	PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30"	EACH	2
	54214515	PRECAST REINFORCED CONCRETE FLARED END SECTIONS, EQUIVALENT ROUND-SIZE 30"	EACH	2
	542A0223	PIPE CULVERTS, CLASS A, TYPE 1 18"	FOOT	386
	542A5485	PIPE CULVERTS, CLASS A, TYPE 1 EQUIVALENT ROUND-SIZE 30"	FOOT	42
	550A0120	STORM SEWERS, CLASS A, TYPE 1 24"	FOOT	20
	550A0140	STORM SEWERS, CLASS A, TYPE 1 30"	FOOT	269
	55100500	STORM SEWER REMOVAL 12"	FOOT	89
	55100700	STORM SEWER REMOVAL 15"	FOOT	90
	55100900	STORM SEWER REMOVAL 18"	FOOT	43
	55101200	STORM SEWER REMOVAL 24"	FOOT	290
	60402010	GRATES, TYPE 6	EACH	1
	60603800	COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12	FOOT	28
*	X0322936	REMOVE EXISTING FLARED END SECTION	EACH	3
*	X0326763	REMOVE GRATING	EACH	1
*	X4021000	TEMPORARY ACCESS (PRIVATE ENTRANCE)	EACH	1
*	Z0013798	CONSTRUCTION LAYOUT	LSUM	1

PLAN	DATE
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ALIGNMENT CHECKED	
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GRADES CHECKED	
STRUCTURE NOTATIONS OK'D	
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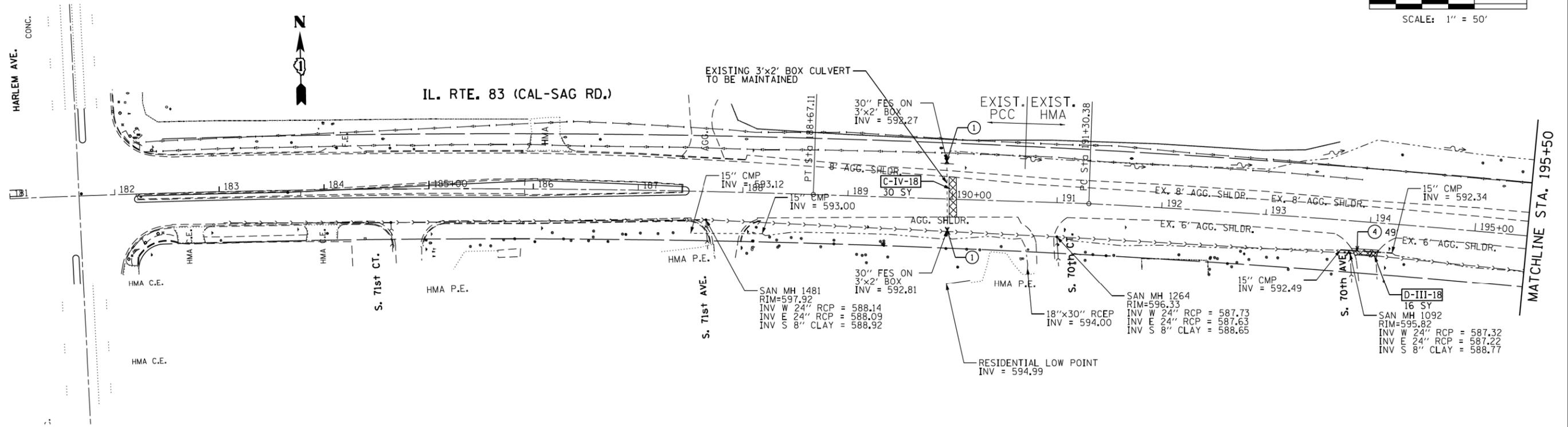


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	DRAWN - DK	REVISED -
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

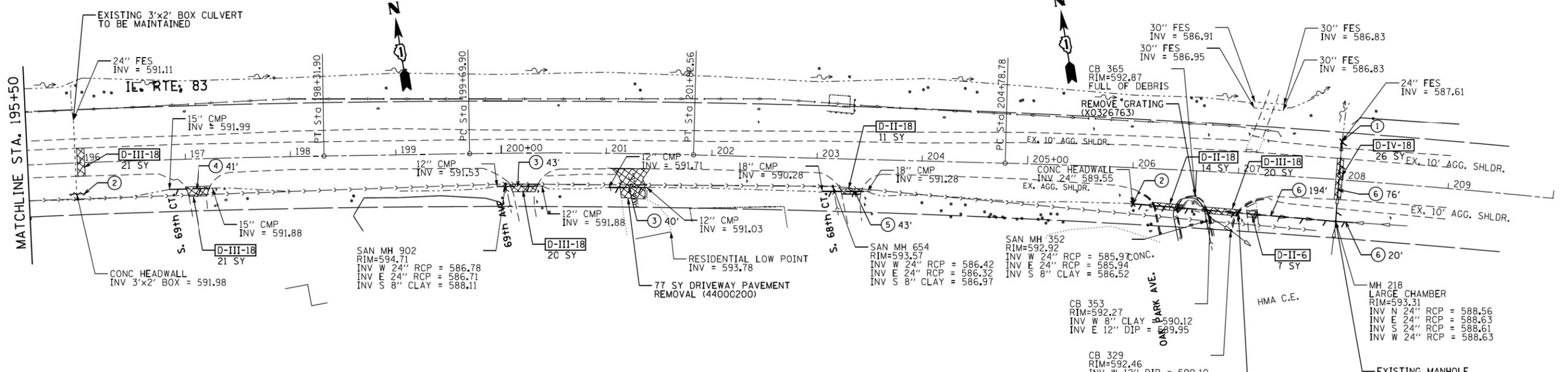
IL. RTE. 83 (CALUMET-SAG RD.) HIGHWOOD DR. TO IL. RTE. 83 (127th ST.) DRAINAGE SCHEDULE OF QUANTITIES	
SCALE: 50H 5V	SHEET OF 11 SHEETS STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	(524-1&2)RS	COOK	47	23
CONTRACT NO.			60L98	
ILLINOIS FED. AID PROJECT				



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GRADES CHECKED	
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STRUCTURE NOTATION	
PROFILE	



- ① REMOVE EXISTING FLARED END SECTION (X0322936)
 - ② CONCRETE HEADWALL REMOVAL (50104400)
 - ③ STORM SEWER REMOVAL 12" (55100500)
 - ④ STORM SEWER REMOVAL 15" (55100700)
 - ⑤ STORM SEWER REMOVAL 18" (55100900)
 - ⑥ STORM SEWER REMOVAL 24" (55101200)
- PAVEMENT PATCHING
 - C-IV-18** CLASS C PATCH, TYPE IV, 18" (44201449)
 - D-II-6** CLASS D PATCH, TYPE II, 6" (44201717)
 - D-II-18** CLASS D PATCH, TYPE II, 18" (44201863)
 - D-III-18** CLASS D PATCH, TYPE III, 18" (44201867)
 - D-IV-18** CLASS D PATCH, TYPE IV, 18" (44201869)

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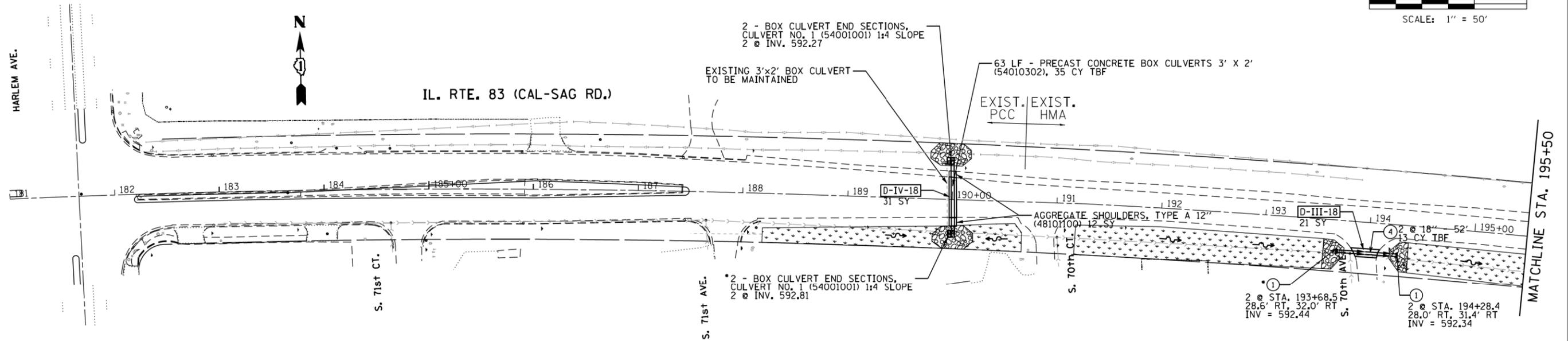
CB CHRISTOPHER B. BURKE ENGINEERING, LTD.
 1075 W. Higgins Road, Suite 100
 Rosemont, Illinois 60018
 (847) 823-0500

USER NAME	DESIGNED - DK	REVISED -
	DRAWN - DK	REVISED -
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PLLOT DATE = 3/27/2017	DATE - 3/27/2017	REVISED -

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

IL. RTE. 83 (CALUMET-SAG RD.) HIGHWOOD DR. TO IL. RTE. 83 (127th ST.) EXISTING CONDITIONS & REMOVAL PLAN	
SCALE: 50H 5V	SHEET OF 11 SHEETS STA. 181+00 TO STA. 210+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	(524-1&2)RS	COOK	47	25
CONTRACT NO. 60L98			ILLINOIS FED. AID PROJECT	



- ① PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18" (54213663)
- ② PRECAST REINFORCED CONCRETE FLARED END SECTIONS 24" (54213669)
- ③ PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30" (54213675)
- ④ PIPE CULVERTS, CLASS A, TYPE 1 18" OR 24" (542A0223) OR (542A0229)
- ⑤ STORM SEWERS, CLASS A, TYPE 1 24" OR 30" (550A0120) OR (550A0140)

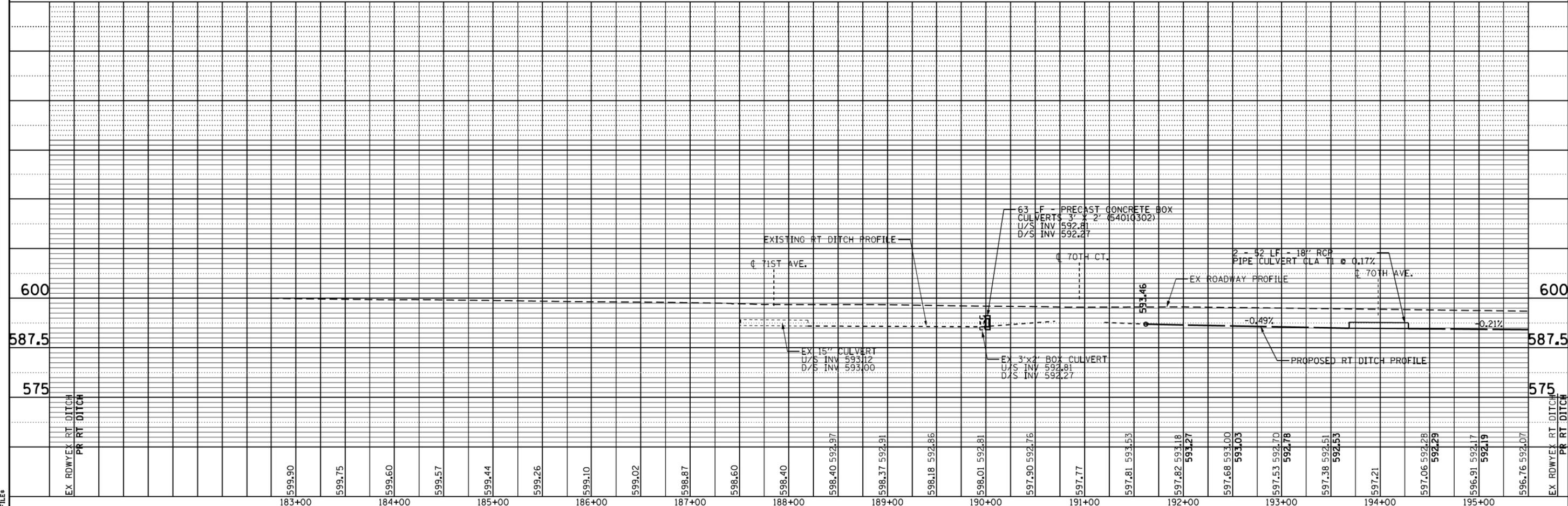
- PAVEMENT PATCHING
- D-II-6 CLASS D PATCH, TYPE II, 6" (44201717)
 - D-II-18 CLASS D PATCH, TYPE II, 18" (44201863)
 - D-III-18 CLASS D PATCH, TYPE III, 18" (44201867)
 - D-IV-18 CLASS D PATCH, TYPE IV, 18" (44201869)

- SEEDING, CLASS 2A, EROSION CONTROL BLANKET, TOPSOIL EXCAVATION AND PLACEMENT (25000210) (25100630) (21101505)
- STONE RIPRAP, CLASS A3 (28100105)

• NOTE: INSTALL INLET AND PIPE PROTECTION (28000500) AT EACH END SECTION WHERE INDICATED DURING CONSTRUCTION

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

PROFILE	SUBMITTED	BY	DATE
NOTE BOOK NO.	PLOTTED		
	GRADES CHECKED		
	STRUCTURE NOTATIONS OK'D		



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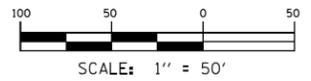
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PLOT DATE = 3/27/2017	DATE - 3/27/2017	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

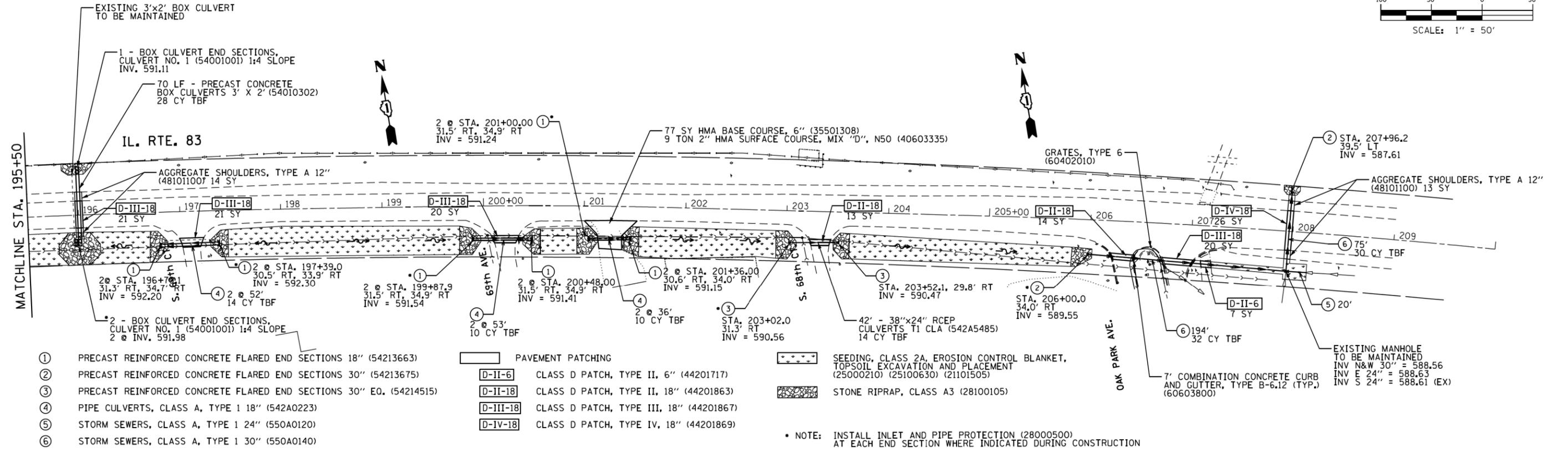
IL. RTE. 83 (CALUMET-SAG RD.)
HIGHWOOD DR. TO IL. RTE. 83 (127th ST.)
PROPOSED DRAINAGE PLAN

SCALE: 50H 5V SHEET OF 11 SHEETS STA. 181+00 TO STA. 195+50

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	(524-1&2)RS	COOK	47	26
CONTRACT NO. 60L98			ILLINOIS FED. AID PROJECT	

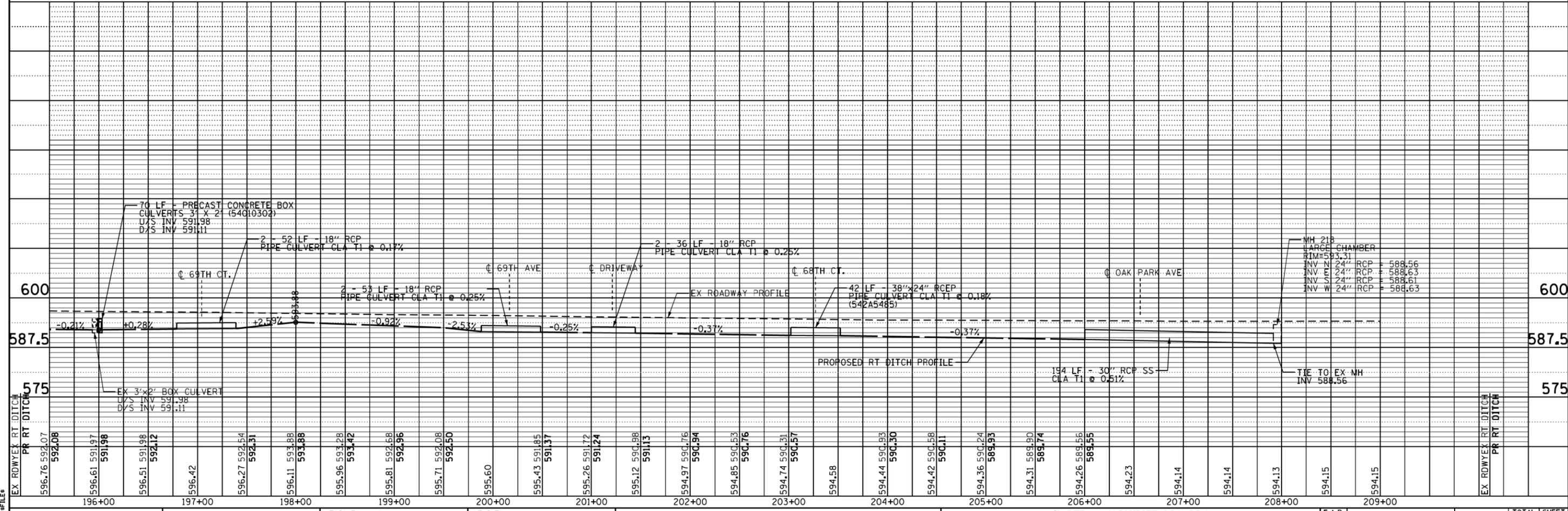


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- ① PRECAST REINFORCED CONCRETE FLARED END SECTIONS 18" (54213663)
 - ② PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30" (54213675)
 - ③ PRECAST REINFORCED CONCRETE FLARED END SECTIONS 30" EQ. (54214515)
 - ④ PIPE CULVERTS, CLASS A, TYPE 1 18" (542A0223)
 - ⑤ STORM SEWERS, CLASS A, TYPE 1 24" (550A0120)
 - ⑥ STORM SEWERS, CLASS A, TYPE 1 30" (550A0140)
- PAVEMENT PATCHING
- D-II-6 CLASS D PATCH, TYPE II, 6" (44201717)
 - D-II-18 CLASS D PATCH, TYPE II, 18" (44201863)
 - D-III-18 CLASS D PATCH, TYPE III, 18" (44201867)
 - D-IV-18 CLASS D PATCH, TYPE IV, 18" (44201869)
- SEEDING, CLASS 2A, EROSION CONTROL BLANKET, TOPSOIL EXCAVATION AND PLACEMENT (25000210) (25100630) (21101505)
- STONE RIPRAP, CLASS A3 (28100105)
- NOTE: INSTALL INLET AND PIPE PROTECTION (28000500) AT EACH END SECTION WHERE INDICATED DURING CONSTRUCTION

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CHRISTOPHER B. BURKE ENGINEERING, LTD.
 8775 W. Higgins Road, Suite 400
 Rosemont, Illinois 60018
 (847) 823-6000

USER NAME	DESIGNED - DK	REVISED -
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	CHECKED - JOC	REVISED -
	DATE - 3/27/2017	REVISED -

STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

IL. RTE. 83 (CALUMET-SAG RD.)
 HIGHWOOD DR. TO IL. RTE. 83 (127th ST.)
 PROPOSED DRAINAGE PLAN

SCALE: 50H 5V SHEET OF 11 SHEETS STA. 195+50 TO STA. 210+00

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	524-1&2RS	COOK	47	27
CONTRACT NO.			60L98	
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



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 PLOT DATE = 3/27/2017

USER NAME = dkleinwachter
 DESIGNED -
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

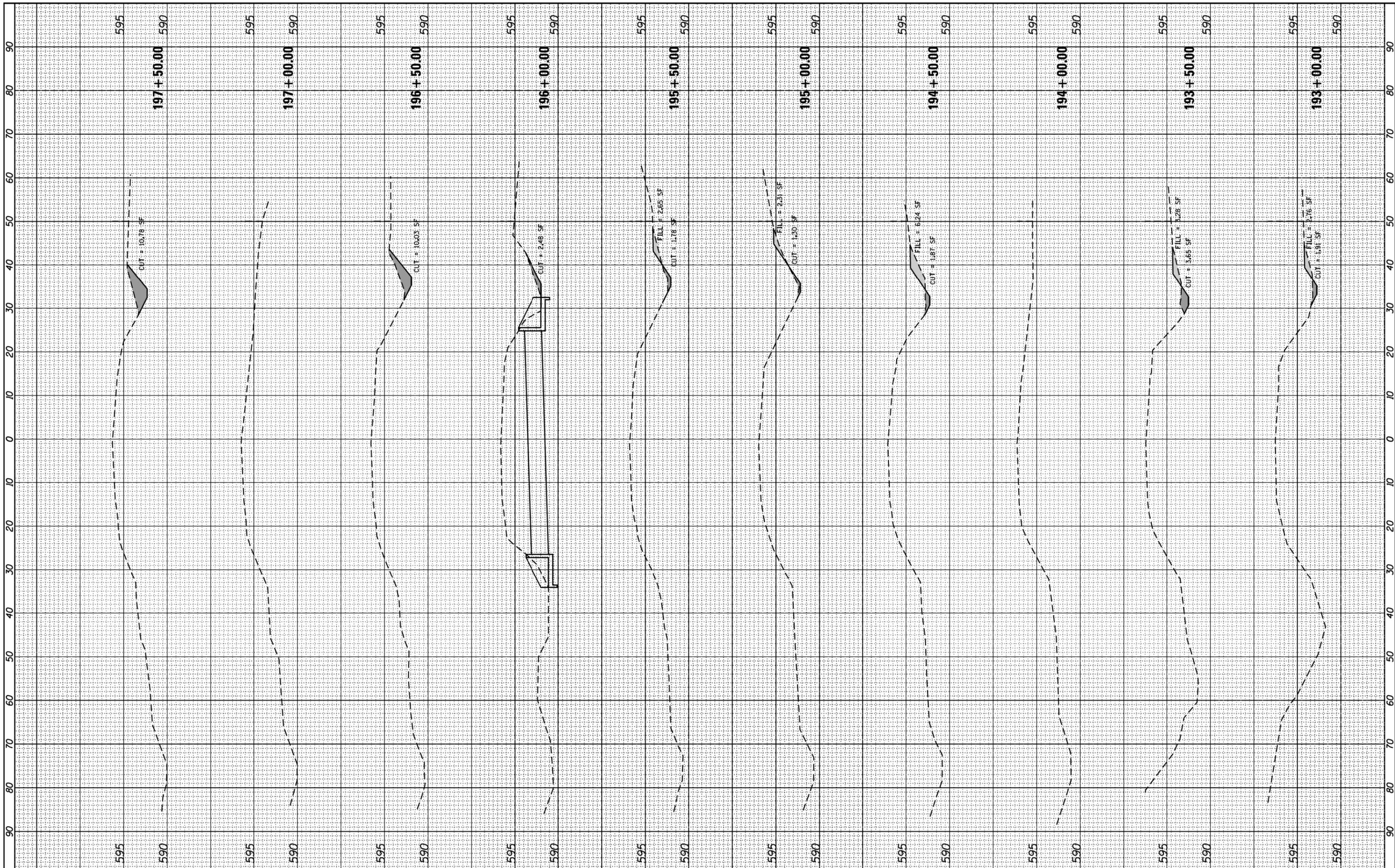
IL ROUTE 83 - CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 188+00.00 TO STA. 192+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			47	28
CONTRACT NO. 60L98				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		

ORIGINAL SURVEY NO.	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS CHECKED	TEMPLATE		
	AREAS CHECKED		



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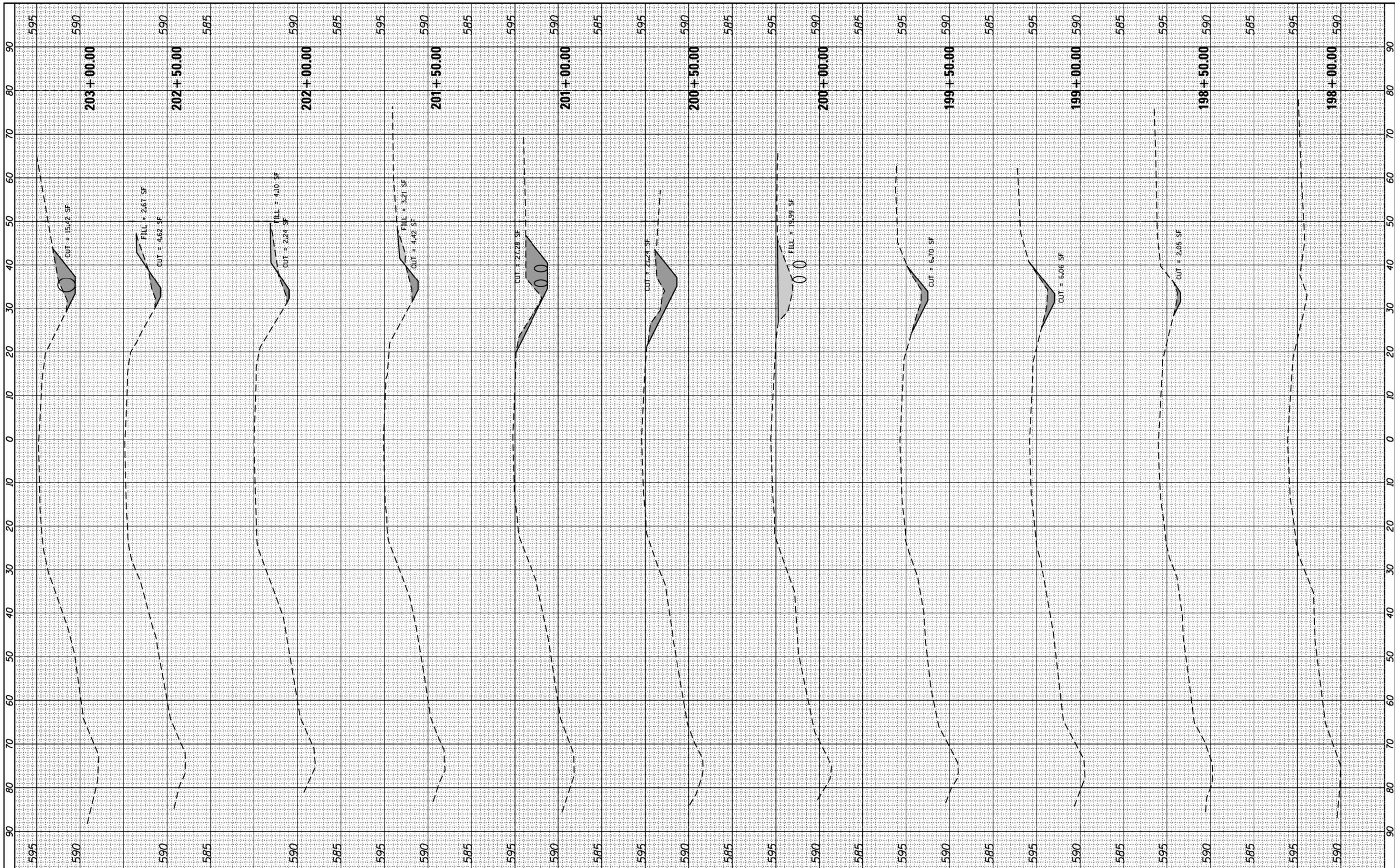
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 83 - CROSS SECTIONS			
SCALE:	SHEET	OF	SHEETS
			STA. 193+00.00 TO STA. 197+50.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			47	29
CONTRACT NO. 60L98				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
AREAS	TEMPLATE		
AREAS	CHECKED		
NO.			

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
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**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

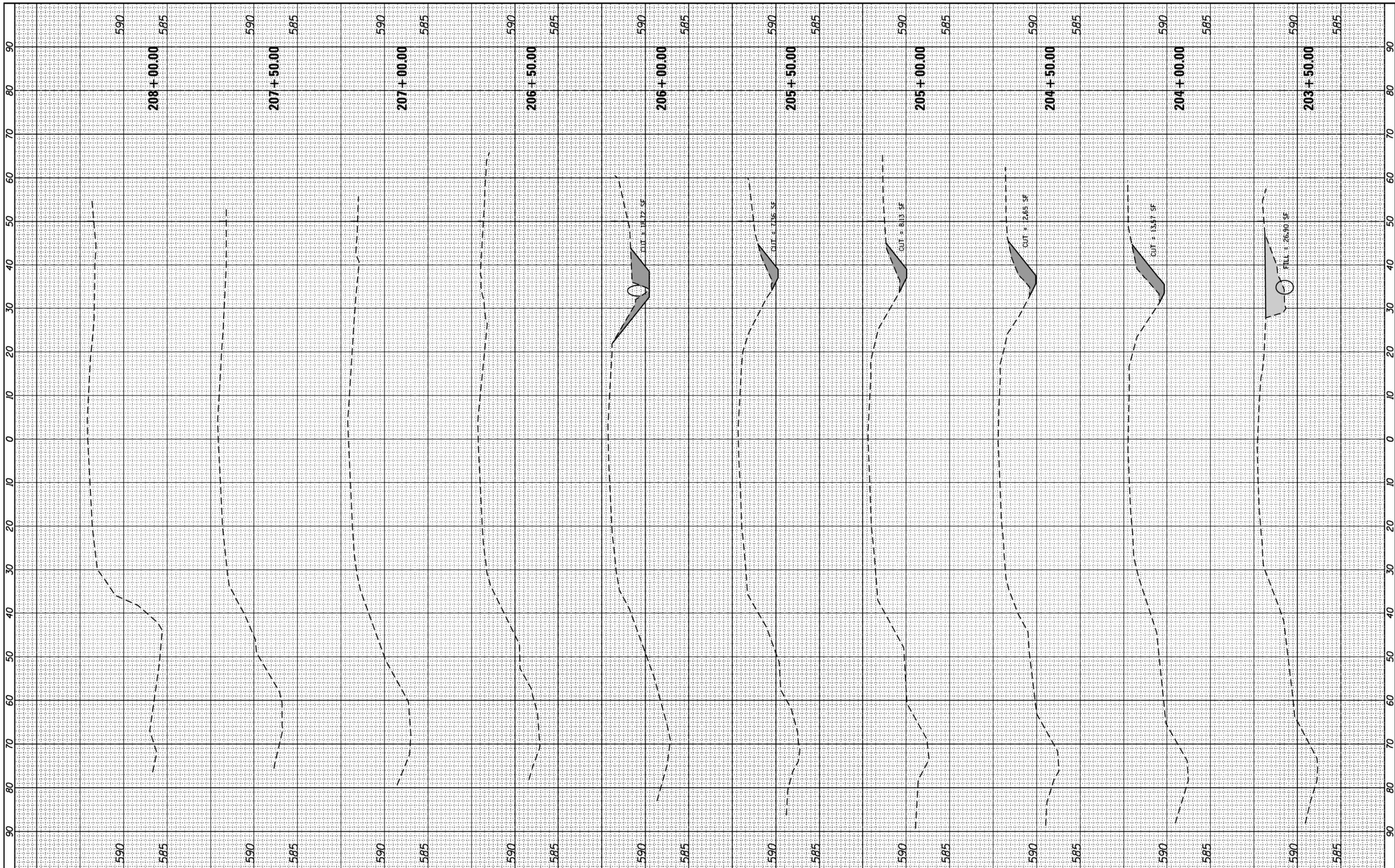
IL ROUTE 83 - CROSS SECTIONS

SCALE: SHEET OF SHEETS STA. 198+00.00 TO STA. 203+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			47	30
CONTRACT NO. 60L98				
ILLINOIS FED. AID PROJECT				

FINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		

ORIGINAL SURVEY	SURVEYED	BY	DATE
NOTE BOOK	PLOTTED		
NO.	TEMPLATE		
	AREAS		
	CHECKED		



FILE NAME =	USER NAME = dkleinwachter	DESIGNED -	REVISED -
Na:\dot\160061.00002\CADD_Sheets\DI06511-sht-Xsect RTE83-01.dgn		DRAWN -	REVISED -
Default		CHECKED -	REVISED -
		DATE -	REVISED -

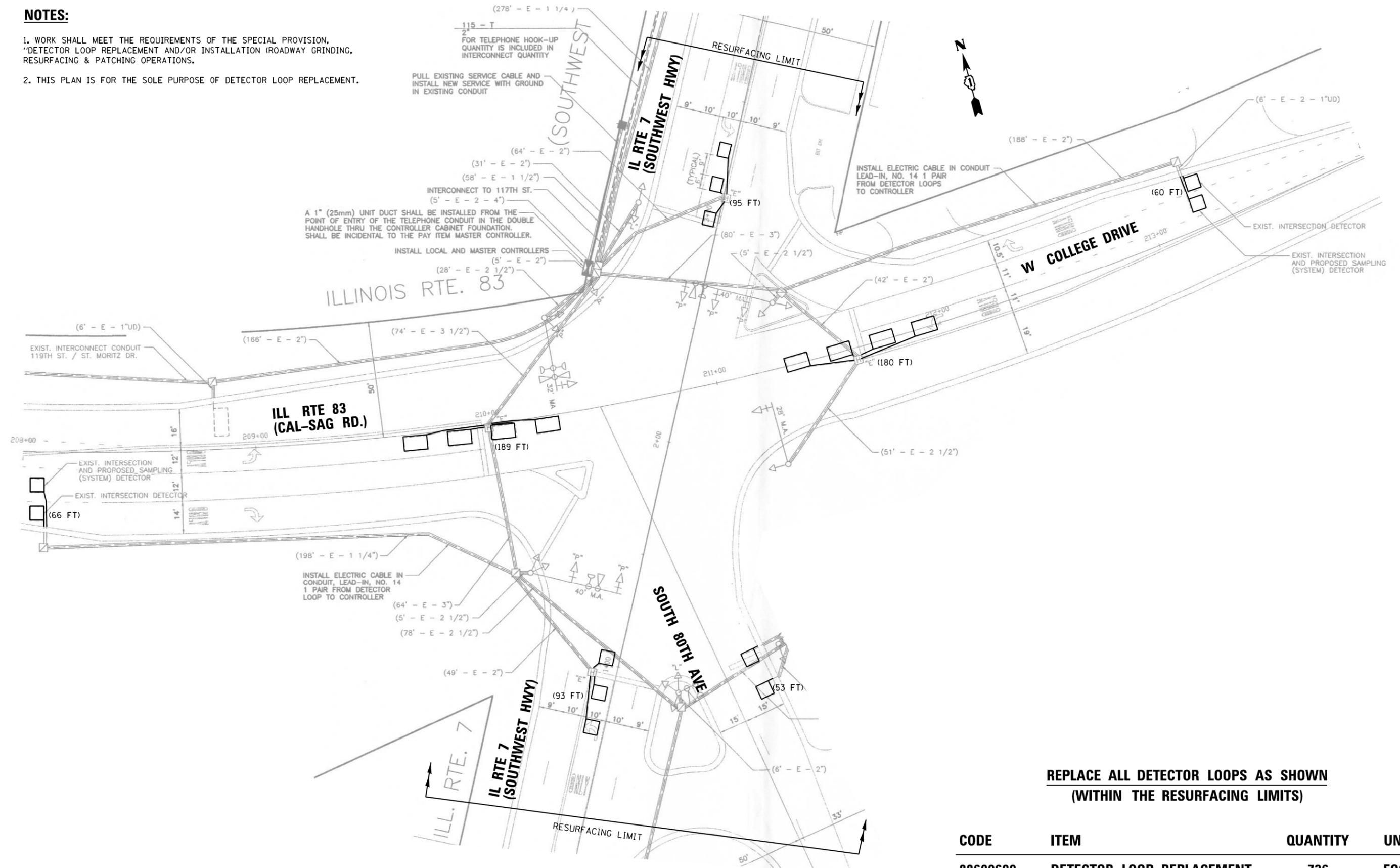
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

IL ROUTE 83 - CROSS SECTIONS	
SCALE:	SHEET OF SHEETS STA. 203+50.00 TO STA. 208+00.00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			47	31
			CONTRACT NO. 60L98	
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.



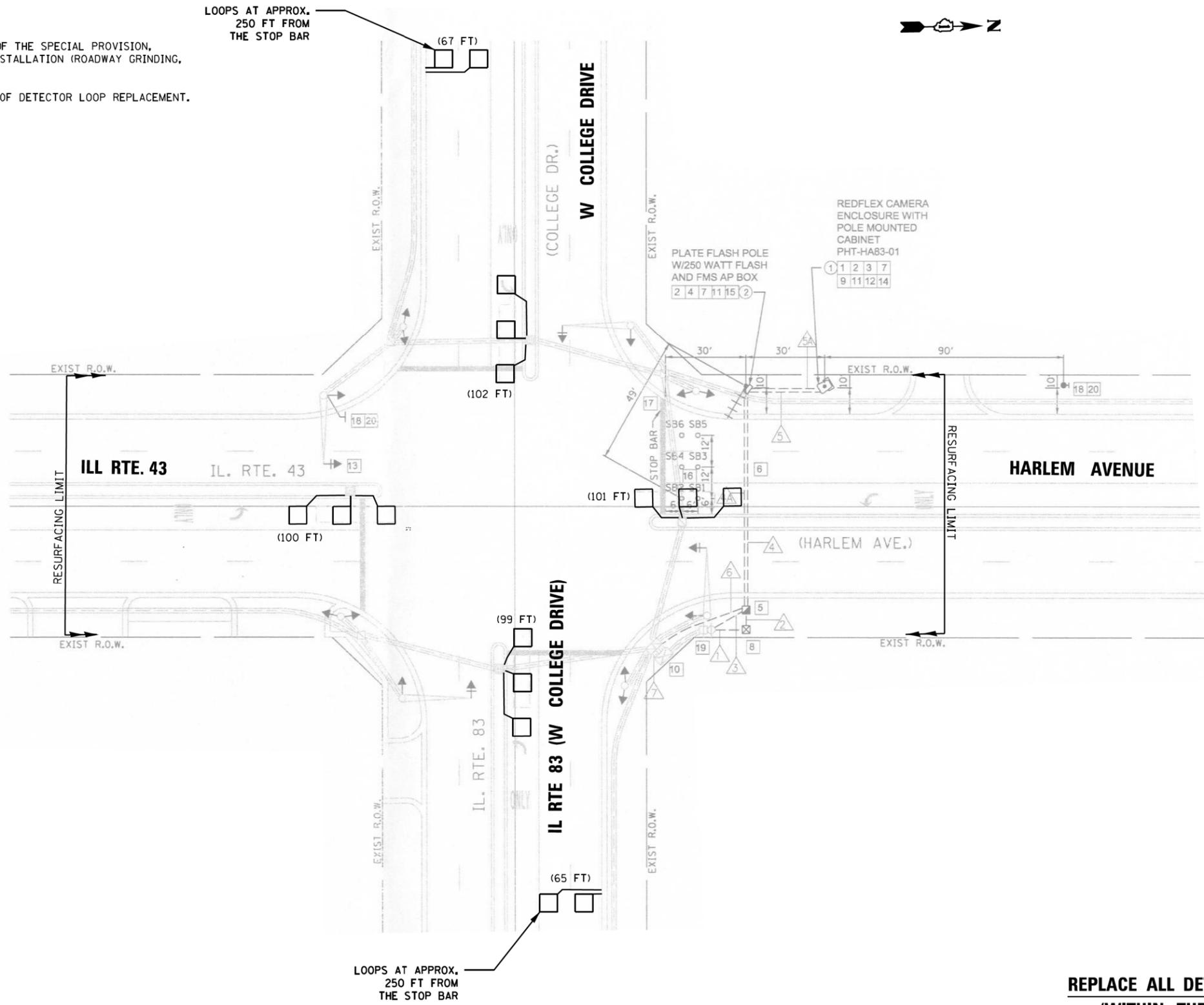
**REPLACE ALL DETECTOR LOOPS AS SHOWN
(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	736	FOOT

FILE NAME = DetectorLoopReuest ILL RTE 83 & SOUTHWEST HWY	USER NAME = javenmerdzg EST HWY_11012016.dgn	DESIGNED - ZGJ DRAWN - ZGJ	REVISED - REVISED - REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN ILL RTE 83 (CALUMET-SAG ROAD) AT SOUTHWEST HWY/80TH AVENUE			F.A.P. RTE. 344	SECTION (524 - 1&2)RS	COUNTY COOK	TOTAL SHEETS 47	SHEET NO. 32
Default	PLOT SCALE = 48.0000' / in.	CHECKED - LP DATE - 11/01/2016	REVISED - REVISED -		SCALE:	SHEET OF SHEETS	STA. TO STA.	CONTRACT NO. 60L98 ILLINOIS FED. AID PROJECT				
	PLOT DATE = 11/3/2016											

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.



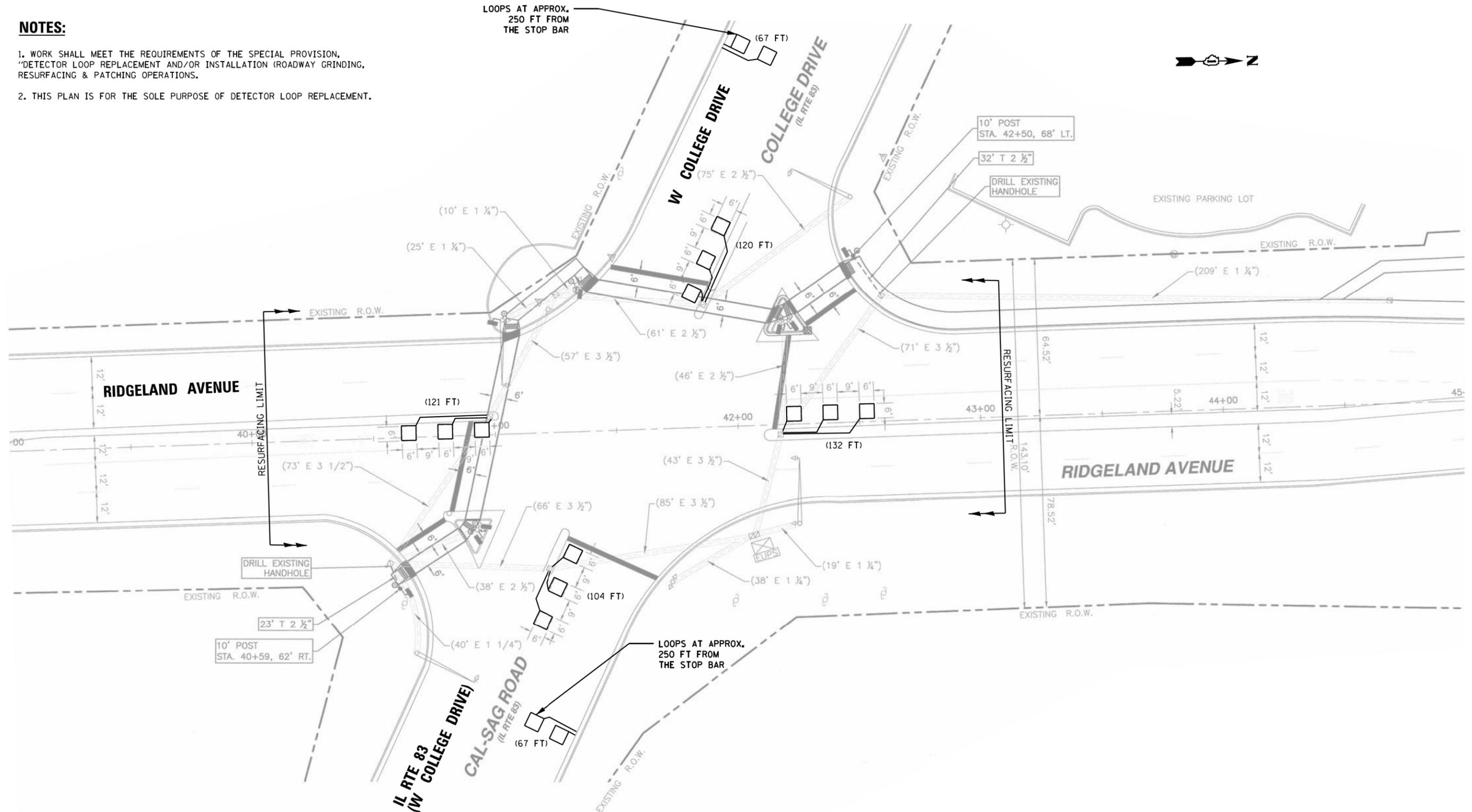
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(WITHIN THE RESURFACING LIMITS)**

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	534	FOOT

FILE NAME =	USER NAME = jvanmerdztg	DESIGNED - ZGJ	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DETECTOR LOOP REPLACEMENT PLAN ILL RTE 83 (COLLAGE DRIVE) AT ILL RTE 43 (HARLEM AVENUE)	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
DetectorLoopReuest ILL RTE 83 & HARLEM	AVE.11022016.dgn	DRAWN - ZGJ	REVISED -			344	(524 - 1&2)RS	COOK	47	33	
Default	PLOT SCALE = 48.0000' / in.	CHECKED - LP	REVISED -			CONTRACT NO. 60L98					
	PLOT DATE = 11/3/2016	DATE - 11/02/2016	REVISED -			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)**

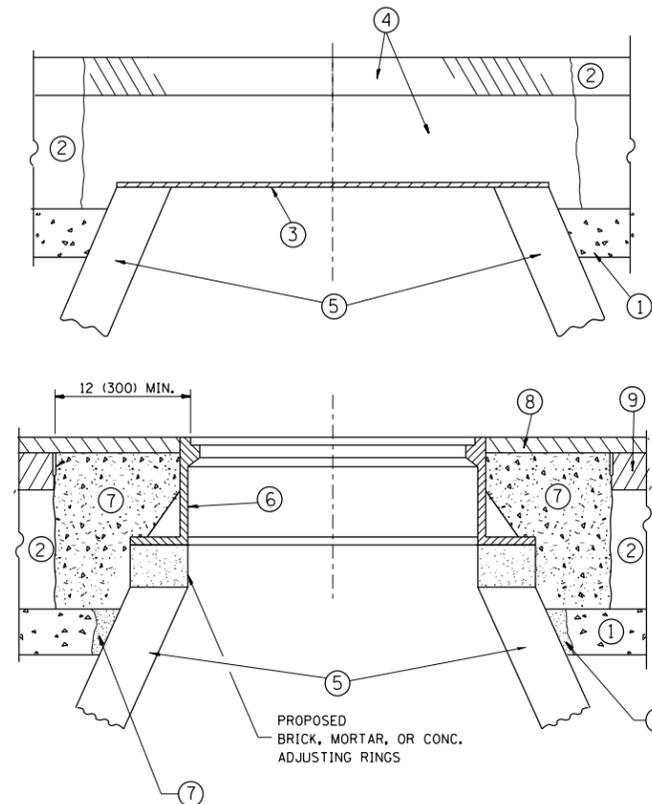
CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	611	FOOT

FILE NAME =	USER NAME = jevenmerdzg	DESIGNED - ZGJ	REVISED -
DetectorLoopReuest ILL RTE 83 & S RIDGELAND AVE.11022016.dgn		DRAWN - ZGJ	REVISED -
Default	PLOT SCALE = 48.0000' / in.	CHECKED - LP	REVISED -
	PLOT DATE = 11/3/2016	DATE - 11/02/2016	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

DETECTOR LOOP REPLACEMENT PLAN			
ILL RTE 83 (CALUMET-SAG ROAD) AT RIDGELAND AVENUE			
SCALE:	SHEET	OF SHEETS	STA. TO STA.

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
344	(524 - 1&2)RS	COOK	47	34
CONTRACT NO. 60L98				
ILLINOIS FED. AID PROJECT				



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 1/2 (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.

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.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

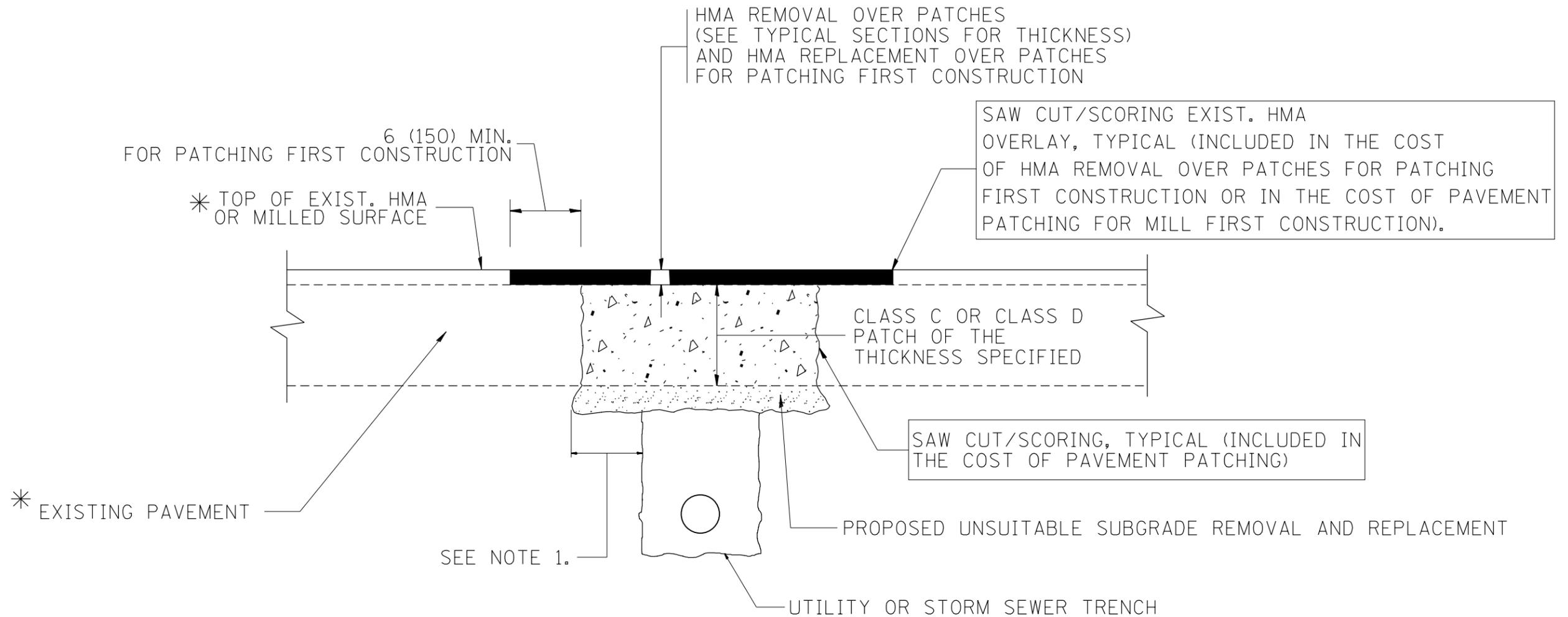
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = paraynoal	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
pw\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI084EBIDINTEG\Design\DistStd.dgn			REVISED - R. BORO 01-01-07
		CHECKED -	REVISED - R. BORO 03-09-11
		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 NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	524-1&2 R5	COOK	47	35
BD600-03 (BD-8)		CONTRACT NO. 60L98		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

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)

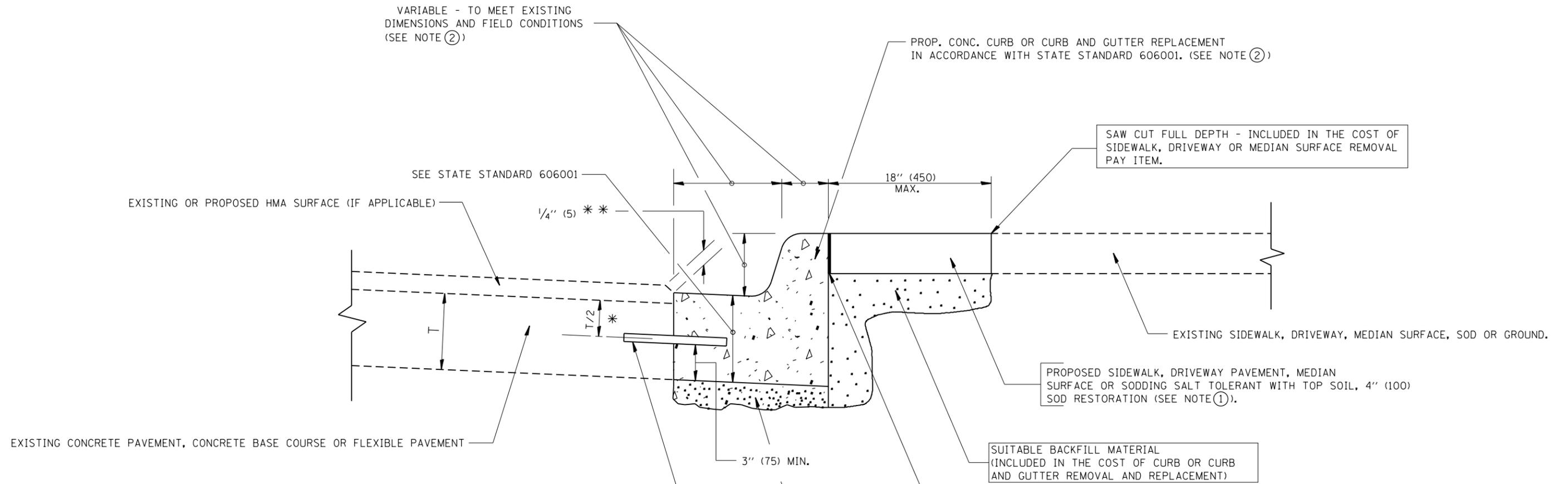
1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 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.

FILE NAME =	USER NAME = paraynoal	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw\11084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI084EBIDINTEG\Drawings\Design\DistStd.dgn		CHECKED -	REVISED - R. BORO 01-01-07					524-1&2 R5	COOK	47	36	
PLOT SCALE = 100.0000' / 1in.		DATE - 10-25-94	REVISED - R. BORO 09-04-07		BD400-04 (BD-22)		CONTRACT NO. 60L98					
PLOT DATE = 3/31/2017			REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DIST. NO. 1 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.
- NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
- SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.
- ② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED
 - ③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
 - ④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
 - ⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
 - ⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.
 - ⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.
 - ⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

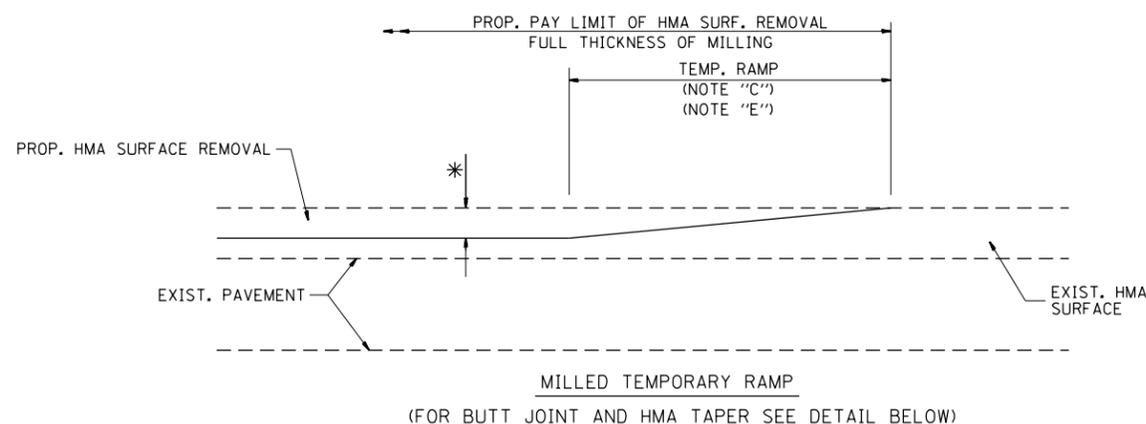
- PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)
- UNSUITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.
- REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.
- REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.
- PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTERS WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:
 THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

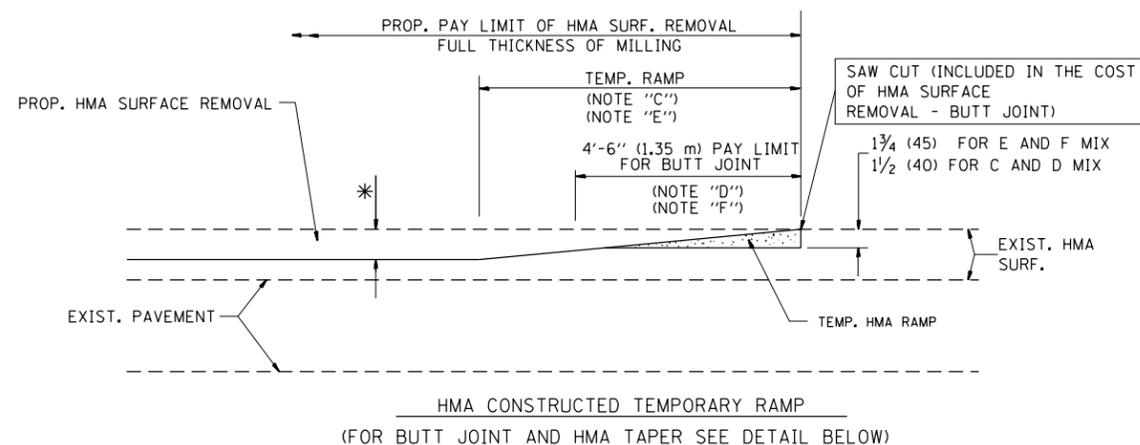
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = paraynoal	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
			REVISED - A. ABBAS 03-21-97					524-1&2 RS	COOK	47	37
			REVISED - M. GOMEZ 01-22-01					BD600-06 (BD-24)		CONTRACT NO. 60L98	
			REVISED - R. BORO 12-15-09					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT			
						SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.		

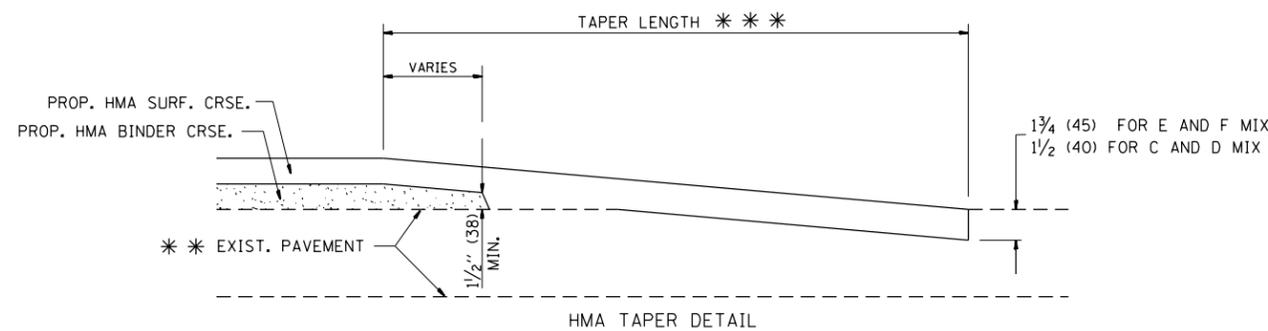
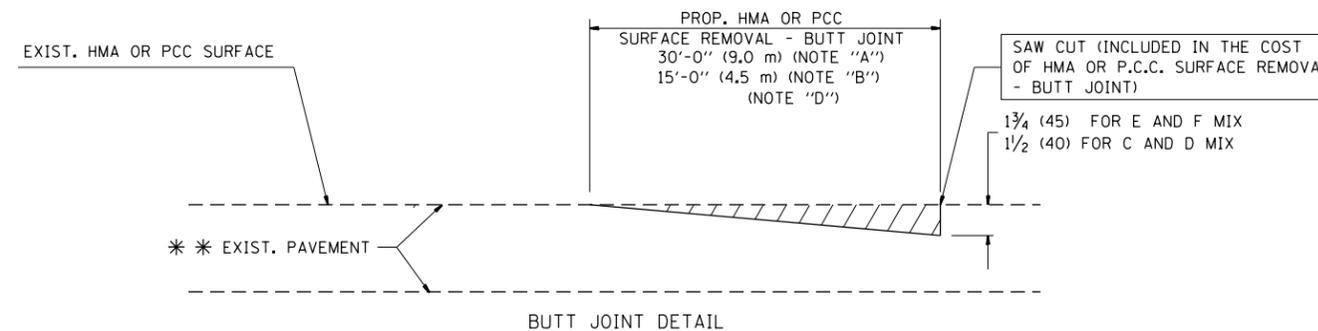


OPTION 1



OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

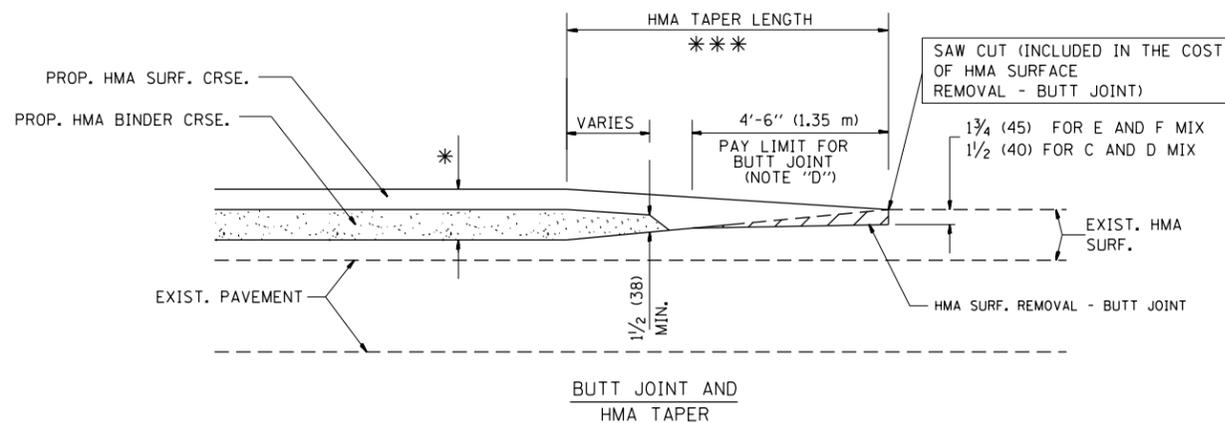
NOTES

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

BASIS OF PAYMENT:

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

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



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

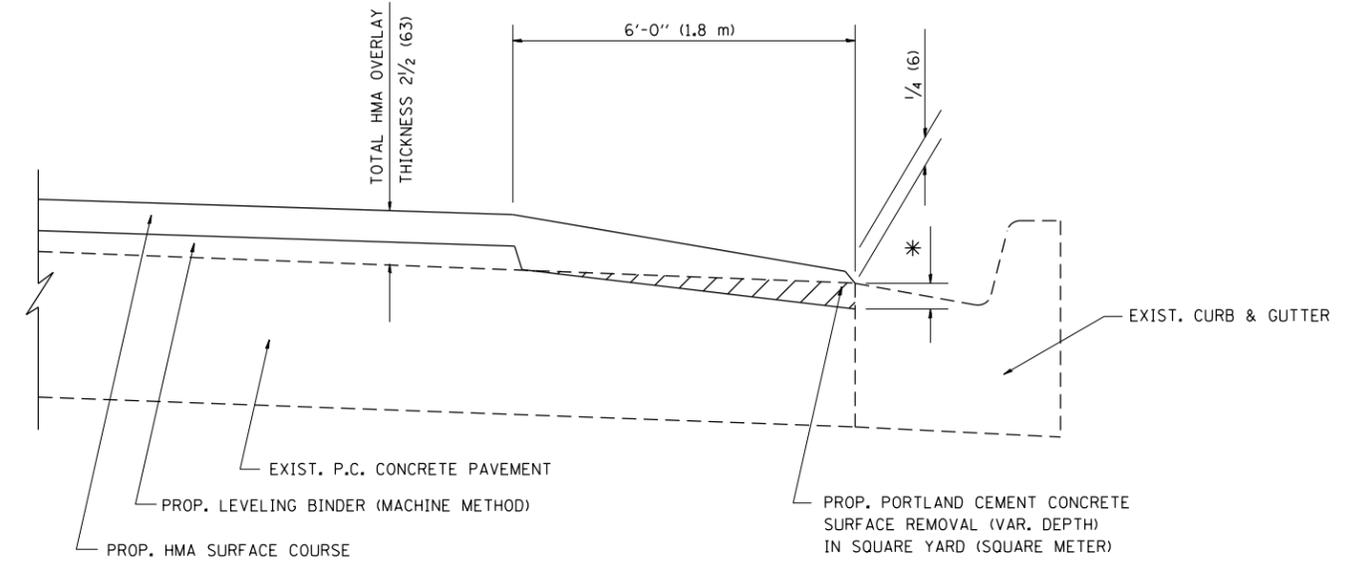
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	PLOT SCALE = 100.0000' / 1in.	CHECKED -	REVISED - M. GOMEZ 04-06-01
	PLOT DATE = 3/31/2017	DATE - 06-13-90	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**BUTT JOINT AND
HMA TAPER DETAILS**

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	524-1&2 RS	COOK	47	38
BD400-05 BD32			CONTRACT NO. 60L98	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



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

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

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

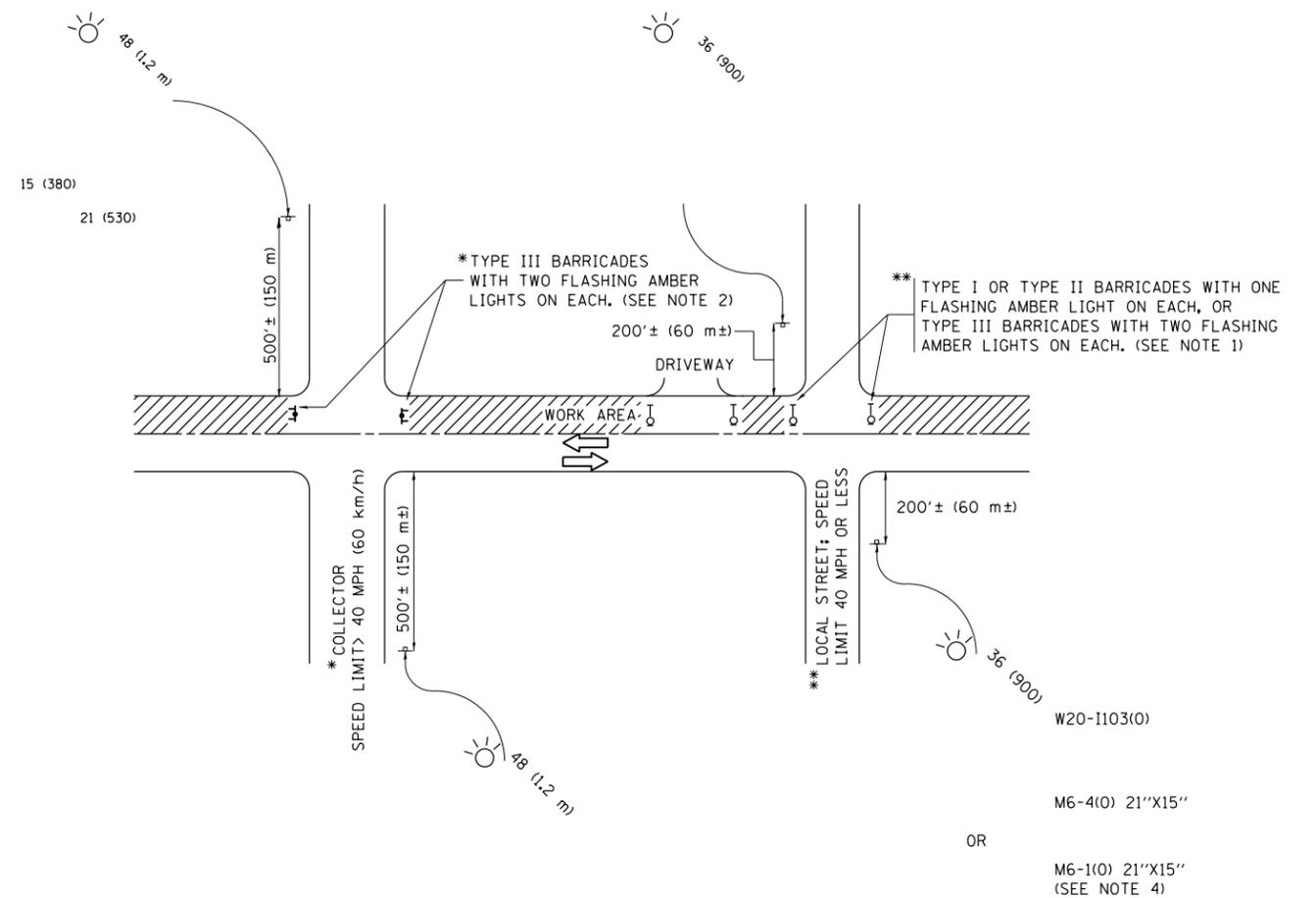
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p:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI084EBIDINTEG\Drawings\Design\DISStd.dgn			REVISED - E. GOMEZ 12-21-00
Default	PLOT SCALE = 100.0000' / 1in.	CHECKED - A. ABBAS	REVISED - R. BORO 01-01-07
	PLOT DATE = 3/31/2017	DATE - 09-10-94	REVISED - JP CHANG 07-08-16

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.
	524-1&2 RS	COOK	47	39
BD400-06 (BD33)		CONTRACT NO. 60L98		
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

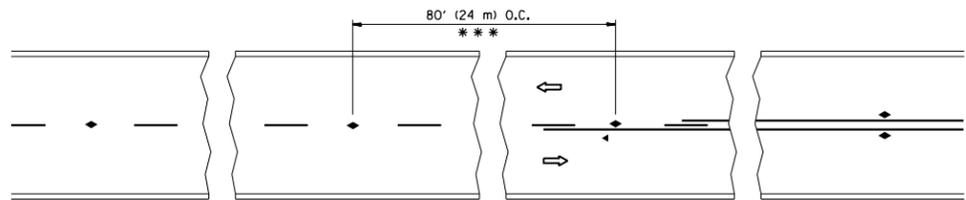
FILE NAME =	USER NAME = paraynoal	DESIGNED - L.H.A.	REVISED - A. HOUSEH 10-15-96
p:\11084EBIDINTEG\illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI084EBIDINTEG\Design\DistStd.dgn			REVISED - T. RAMMACHER 01-06-00
Default	PLOT SCALE = 100.0000' / in.	CHECKED -	REVISED - A. SCHUETZE 07-01-13
	PLOT DATE = 3/31/2017	DATE - 06-89	REVISED - A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

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

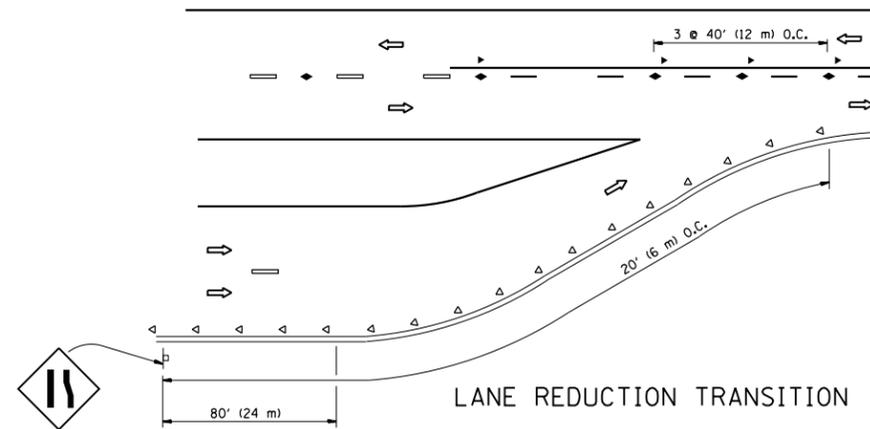
SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	524-1&2 R5	COOK	47	40
TC-10			CONTRACT NO. 60L98	
ILLINOIS FED. AID PROJECT				

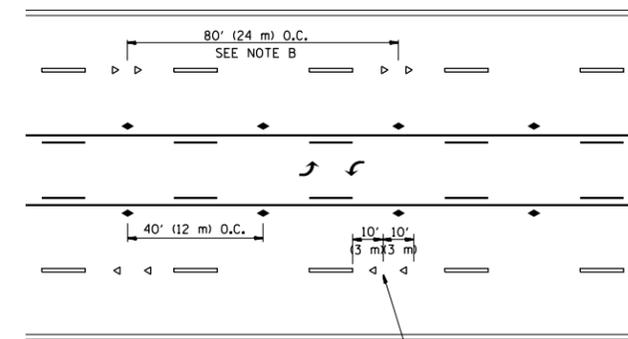


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

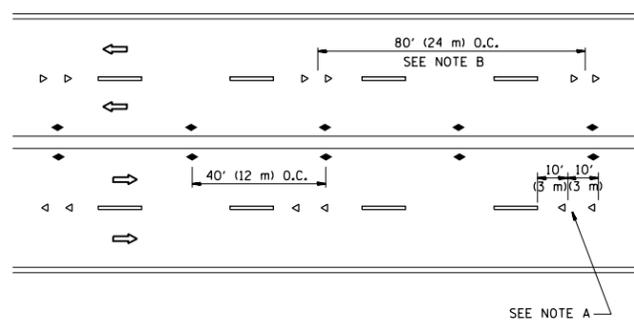
TWO-LANE/TWO-WAY



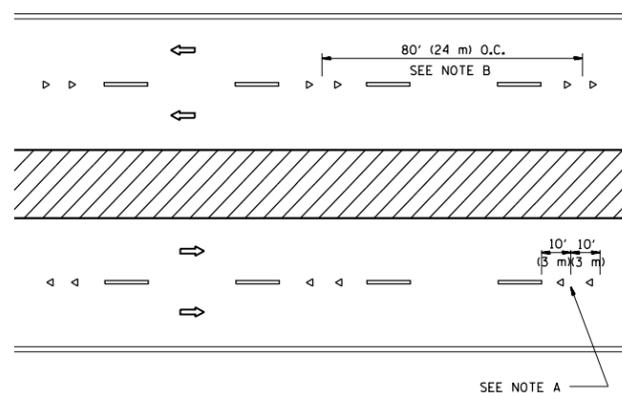
LANE REDUCTION TRANSITION



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.

SYMBOLS

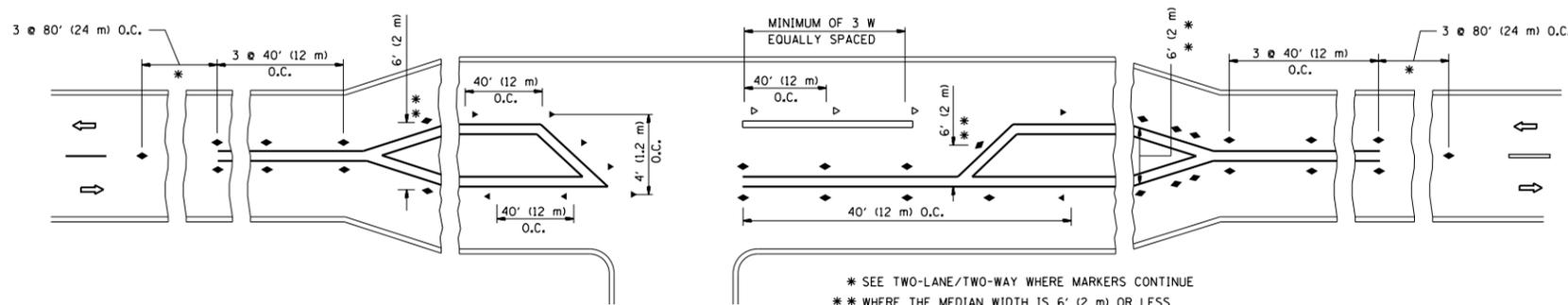
- YELLOW STRIPE
- WHITE STRIPE
- ◀ ONE-WAY AMBER MARKER
- ◁ ONE-WAY CRYSTAL MARKER (W/O)
- ◆ TWO-WAY AMBER MARKER

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.

LEFT TURN

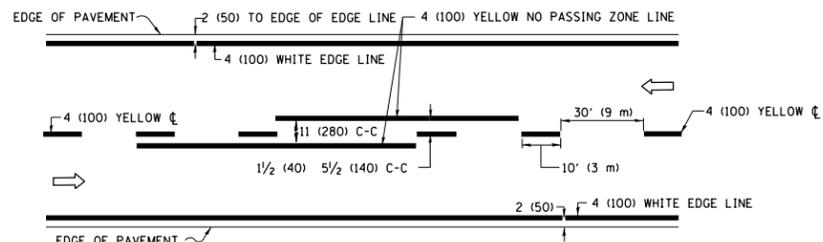
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED - T. RAMMACHER 09-19-94
pw:\11\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\IDOT Offices\District 1\Projects\DI084EBIDINTEG\Design\DistStd.dgn		CHECKED -	REVISED - T. RAMMACHER 03-12-99
		DATE -	REVISED - T. RAMMACHER 01-06-00
			REVISED - C. JUCIUS 09-09-09

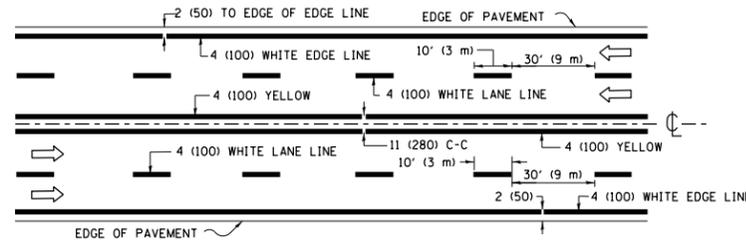
STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS			
RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

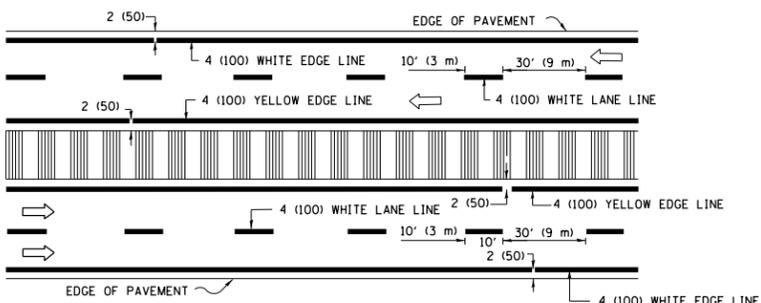
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	524-1&2 R5	COOK	47	41
TC-11			CONTRACT NO. 60L98	
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

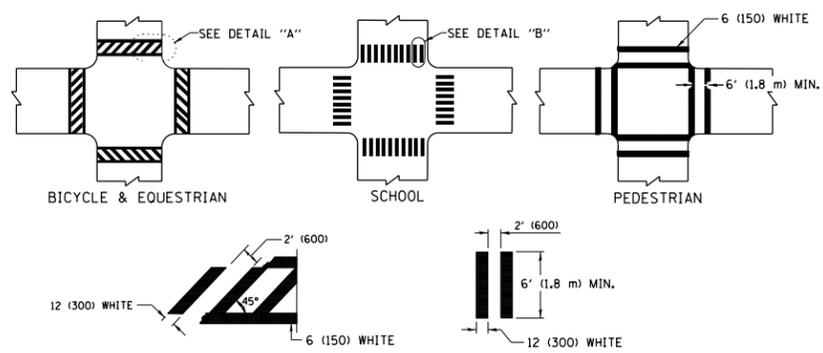


MULTI-LANE UNDIVIDED



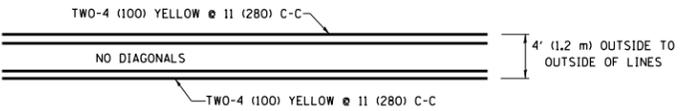
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

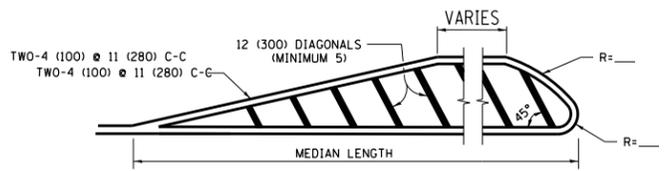


TYPICAL CROSSWALK MARKING

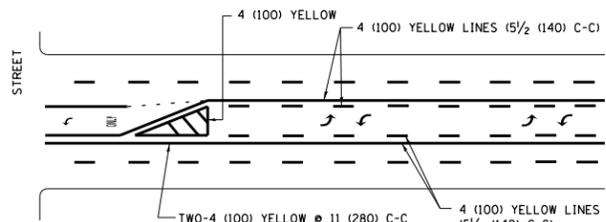
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



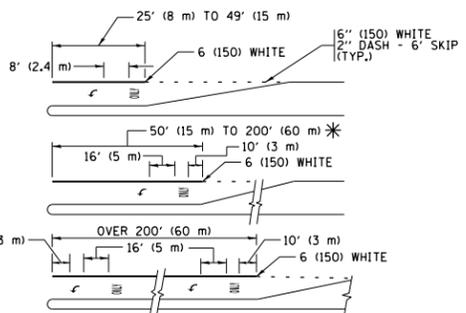
4' (1.2 m) WIDE MEDIANS ONLY



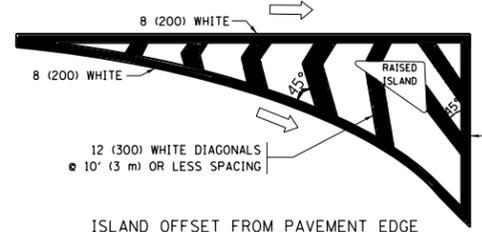
MEDIANS OVER 4' (1.2 m) WIDE



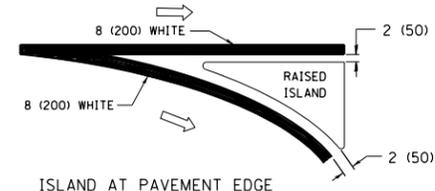
MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING



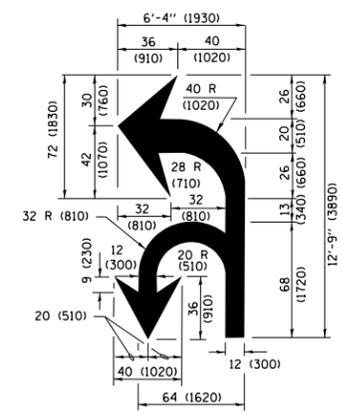
TYPICAL LEFT (OR RIGHT) TURN LANE TYPICAL TURN LANE MARKING



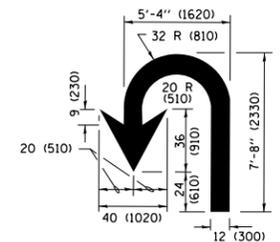
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

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

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 @ 6 (150) 12 (300) @ 45° 12 (300) @ 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 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 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	12 (300) @ 45°	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (22.5 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.

FILE NAME =	USER NAME = paraynoal	DESIGNED - EVERS	REVISED - C. JUCIUS 09-09-09
pw\1\084EBIDINTEG\illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\01084EBIDINTEG\Design\DistStd.dgn		CHECKED -	REVISED - C. JUCIUS 07-01-13
Default	PLOT SCALE = 100.0000' / in.	DATE - 03-19-90	REVISED - C. JUCIUS 12-21-15
	PLOT DATE = 3/31/2017		REVISED - C. JUCIUS 04-12-16

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

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

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	524-1&2 R5	COOK	47	42
	TC-13	CONTRACT NO.	60L98	
ILLINOIS FED. AID PROJECT				

TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER

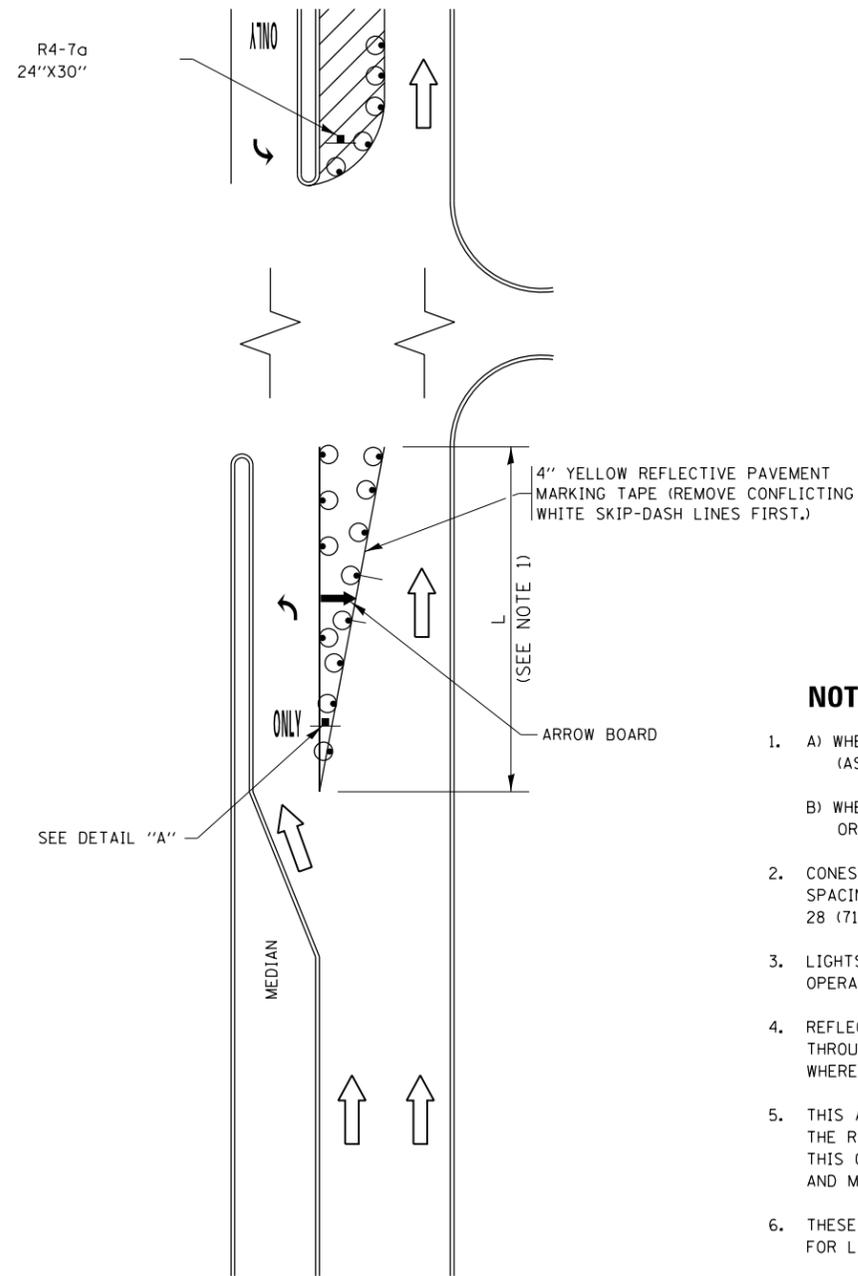
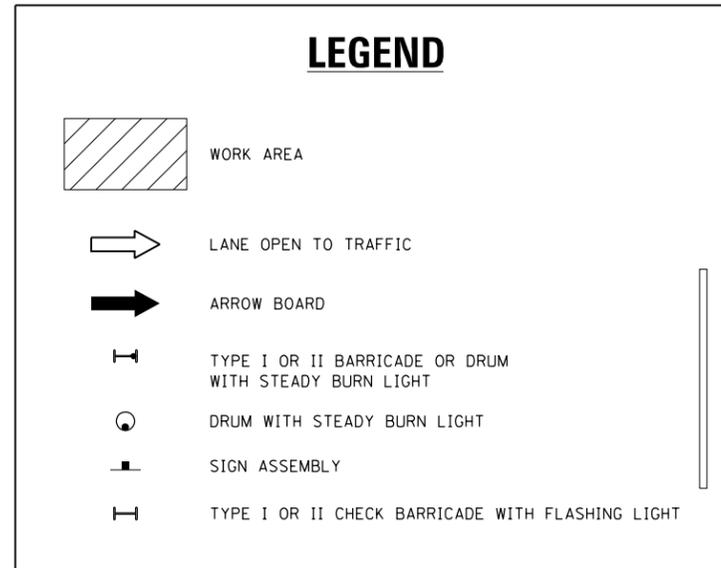


FIGURE 1



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-I100R 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 PREQUIREMENTS.
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.

TURN BAY ENTRANCE WITHIN A LANE CLOSURE

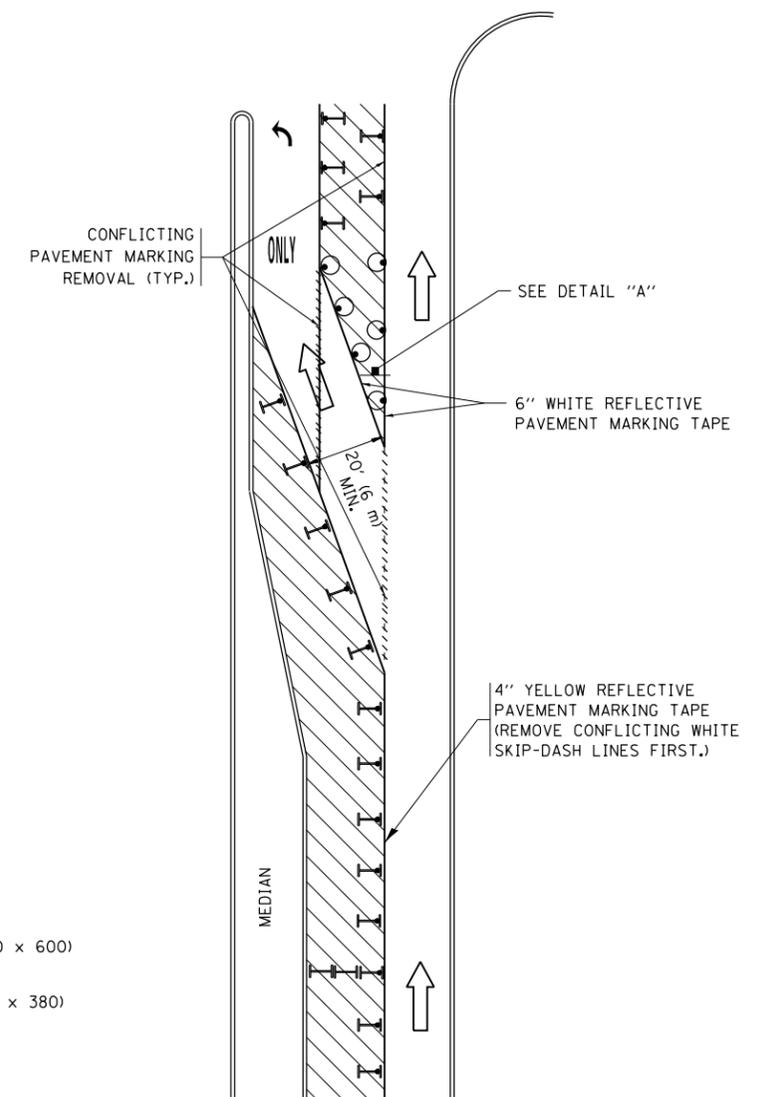
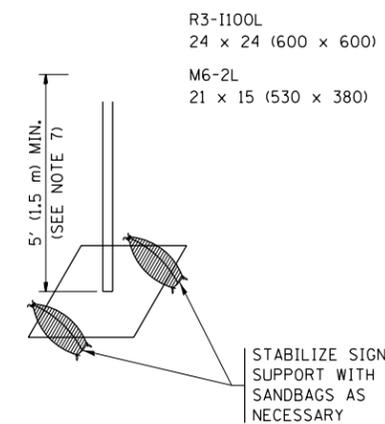


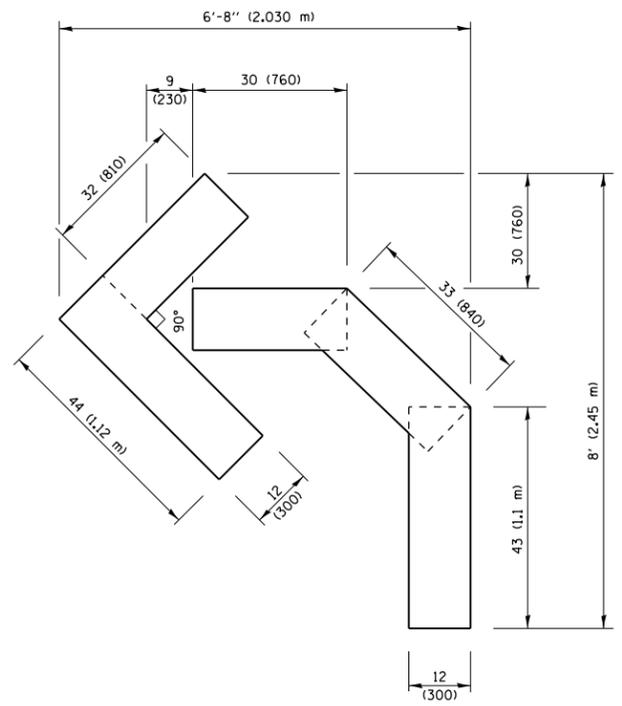
FIGURE 2



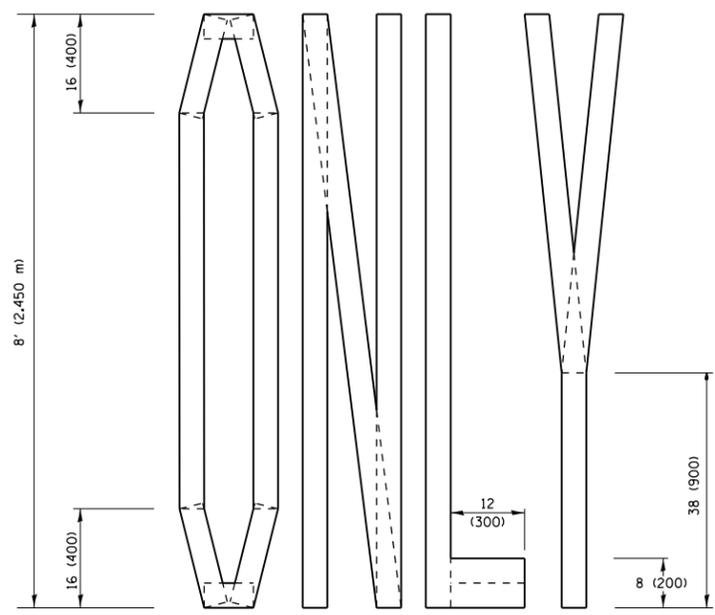
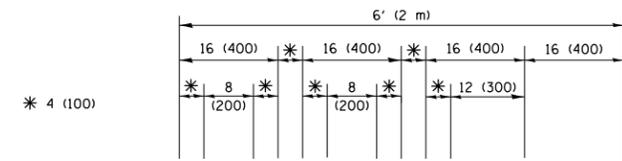
DETAIL A

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

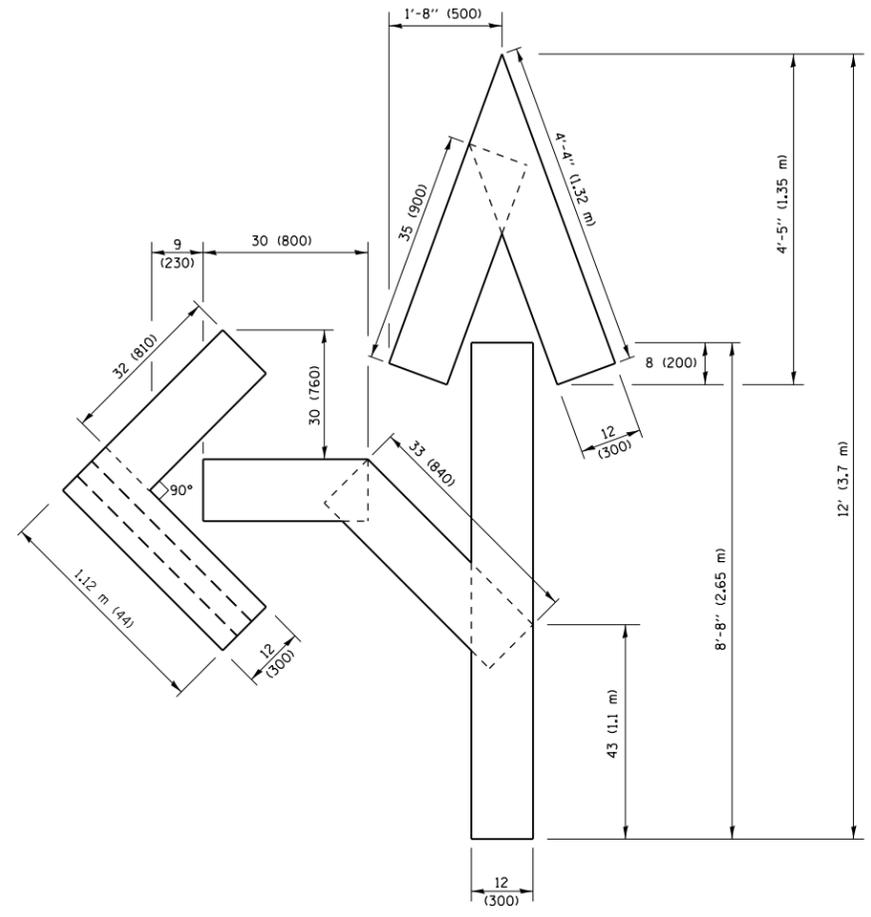
FILE NAME =	USER NAME = parayno1	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC)	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
pw:\IL\084EBIDINTEG\illinois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI084EBIDINTEG\Design\As-Built\084EBIDINTEG 11-07-95	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 07-01-13	REVISED - A. SCHUETZE 09-15-16			524-1&2 R5	COOK	47	43		
Default	PLOT DATE = 3/31/2017	REVISED - T. RAMMACHER 01-06-00	REVISED -			TC-14	CONTRACT NO. 60L98	ILLINOIS FED. AID PROJECT			
						SCALE: NONE	SHEET 1 OF 1 SHEETS	STA.	TO STA.		



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

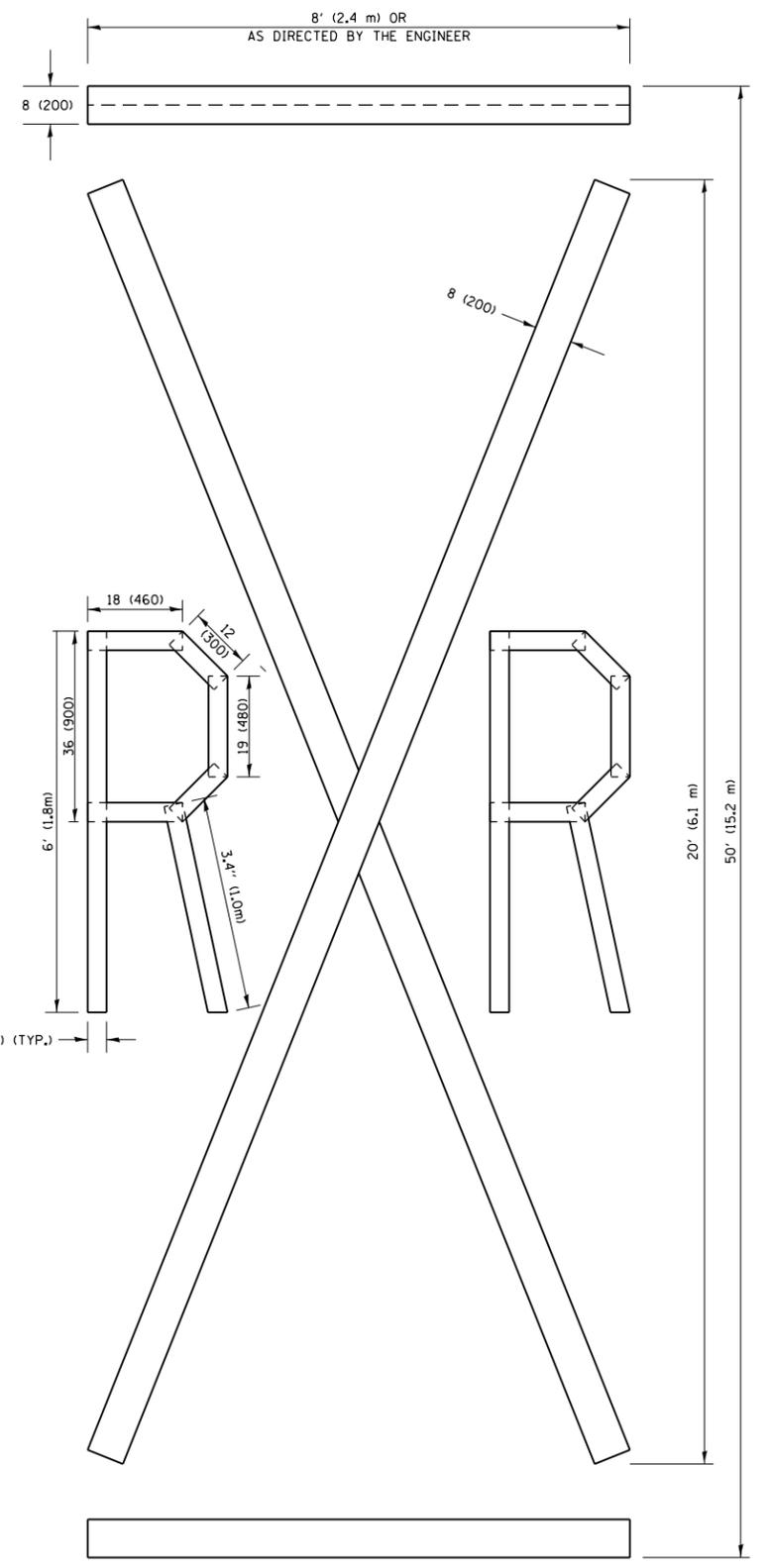


QUANTITY
 4 (100) LINE = 64.1 ft. (19.5 m)
 21.4 sq. ft. (1.99 sq. m)



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

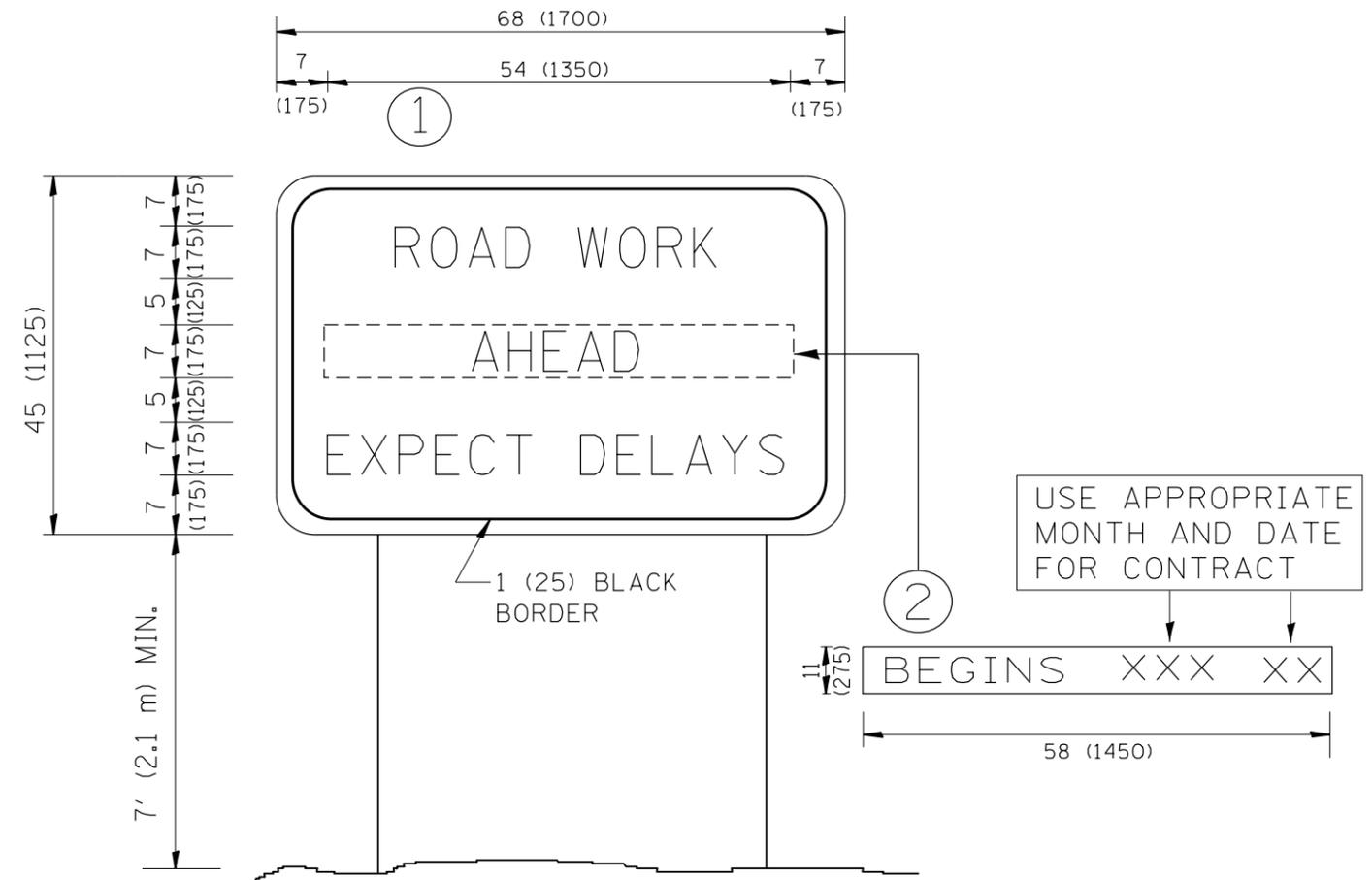
All dimensions are in inches (millimeters)
 unless otherwise shown.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -T. RAMMACHER 03-02-98
p:\1\084EBIDINTEG.illinois.gov\PIWIDOT\Documents\DOT Offices\District 1\Projects\01084EBIDINTEG\Design\DistStd.dgn		CHECKED -	REVISED -E. GOMEZ 08-28-00
		DATE - 09-18-94	REVISED -E. GOMEZ 08-28-00
			REVISED -A. SCHUETZE 09-15-16

**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	524-1&2 R5	COOK	47	44
TC-16		CONTRACT NO. 60L98		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				



NOTES:

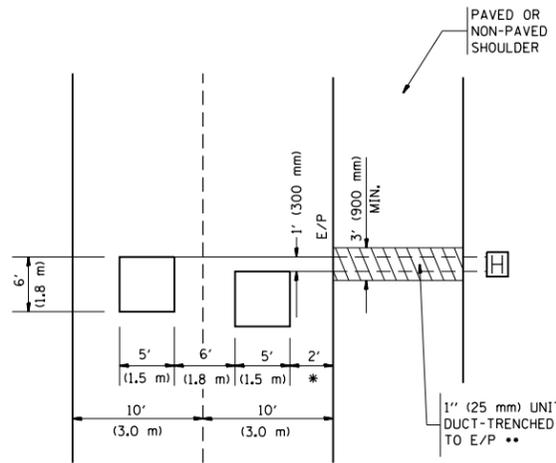
1. USE BLACK LETTERING ON ORANGE BACKGROUND.
2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
3. ERECT SIGN ① WITH INSTALLED PANEL ② ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
4. REMOVE PANEL ② SOON AFTER THE START OF CONSTRUCTION.
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.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED - R. MIRS 09-15-97	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ARTERIAL ROAD INFORMATION SIGN	F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBIDINTEG.illinois.gov\PWIDOT\Documents\DOT Offices\District 1\Projects\DI084EBIDINTEG\Design\DistStd.dgn		DRAWN -	REVISED - R. MIRS 12-11-97			524-1&2 RS	COOK	47	45	
		CHECKED -	REVISED - T. RAMMACHER 02-02-99			TC-22	CONTRACT NO. 60L98			
		DATE -	REVISED - C. JUCIUS 01-31-07			FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.			

LOOPS NEXT TO SHOULDERS

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



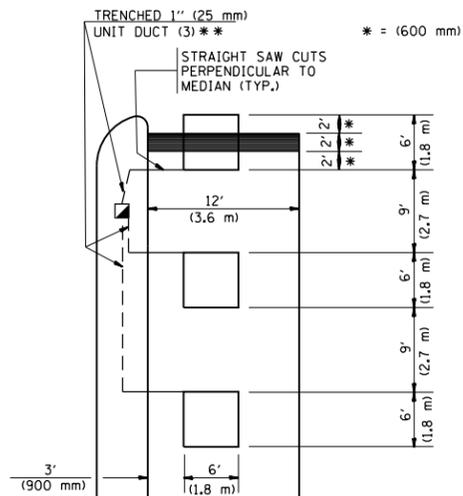
* = (600 mm)

** 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.



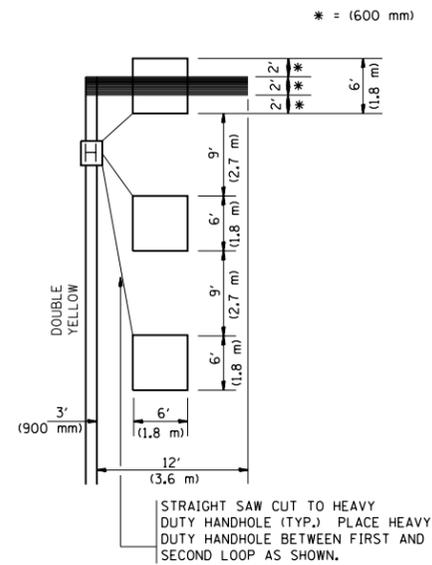
* = (600 mm)

** 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 SEPARATELY. 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.

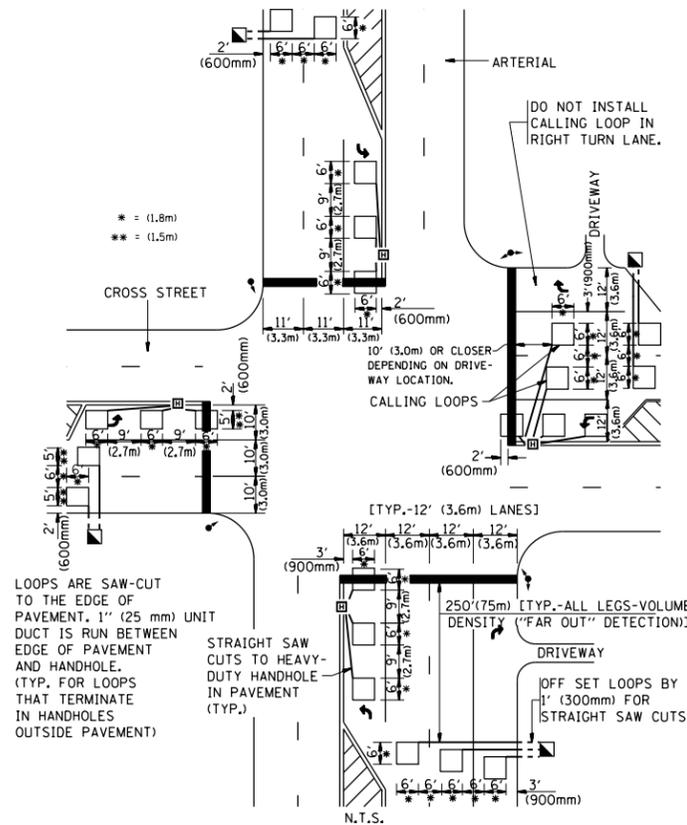
"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0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

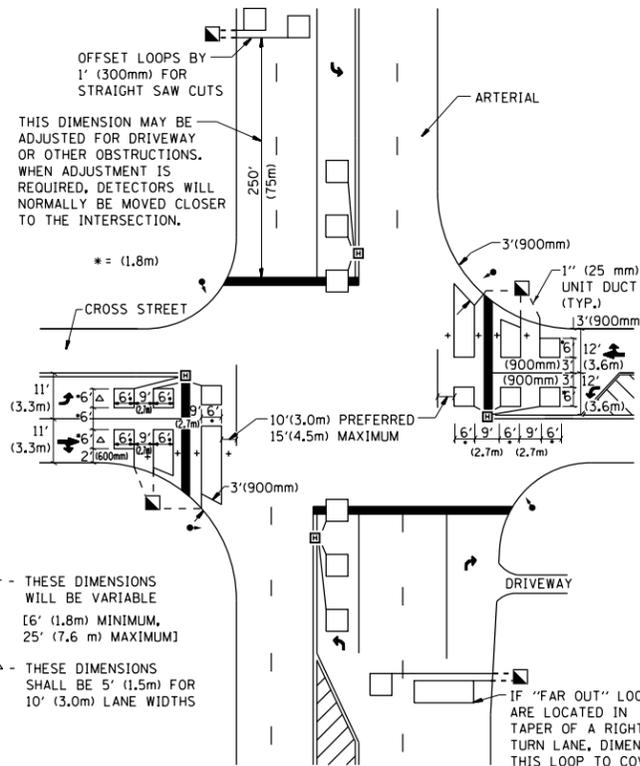


LOOPS ARE SAW-CUT TO THE EDGE OF PAVEMENT. 1" (25 mm) UNIT DUCT IS RUN BETWEEN EDGE OF PAVEMENT AND HANDHOLE. (TYP. FOR LOOPS THAT TERMINATE IN HANDHOLES OUTSIDE PAVEMENT)

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

DETAIL 1
N.T.S.

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



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

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

DETAIL 2
N.T.S.

FILE NAME =	USER NAME = paraynoal	DESIGNED -	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING			F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
p:\11\084EBID\INTEG\11inois.gov\PI\DOT\Documents\DOT Offices\District 1\Projects\DI084EBID\Design\DistStd.dgn		CHECKED - R.K.F.	REVISED -					524-1&2 R5	COOK	47	47	
PLOT SCALE = 100.0000' / 1in.		DATE -	REVISED -					TS-07	CONTRACT NO. 60L98			
PLOT DATE = 3/31/2017			REVISED -					FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				
				SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.					