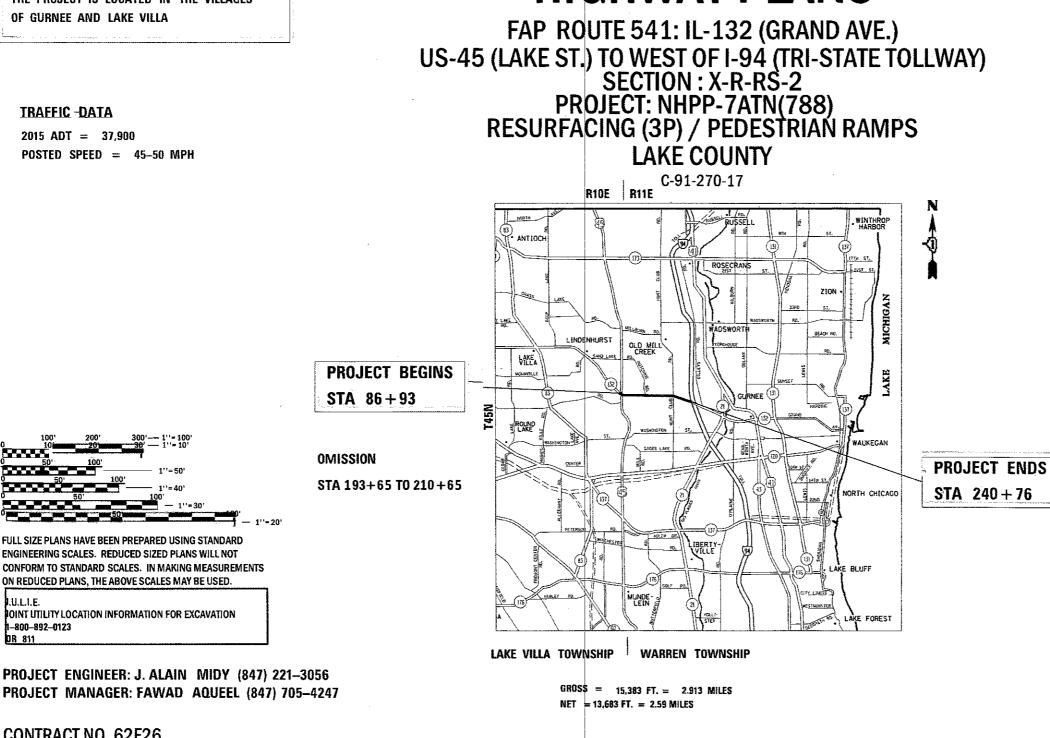
04-27-2018 LETTING ITEM 021

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

# PROPOSED **HIGHWAY PLANS**



FOR INDEX OF SHEETS, SEE SHEET NO. 2

THE PROJECT IS LOCATED IN THE VILLAGES OF GURNEE AND LAKE VILLA

**IRAFFIC** -DATA

2015 ADT = 37.900POSTED SPEED = 45-50 MPH

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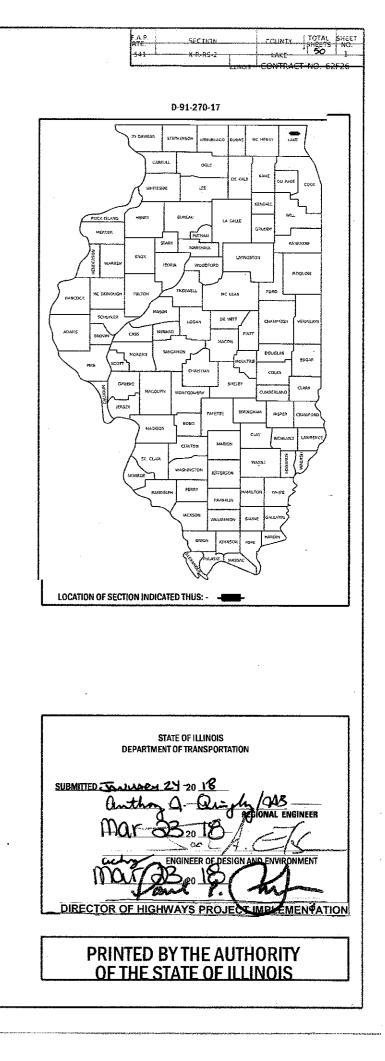
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PROJECT ENGINEER: J. ALAIN MIDY (847) 221-3056 PROJECT MANAGER: FAWAD AQUEEL (847) 705-4247

**CONTRACT NO. 62F26** 

.U.L.I.E.

1-800-892-0123 OR 811



### **INDEX OF SHEETS**

## SHEET NO. DESCRIPTION

- 1. TITLE SHEET
- INDEX OF SHEETS, HIGHWAY STANDARDS, AND GENERAL NOTES 2.
- SUMMARY OF QUANTITIES 3 - 5.
- 6 8. TYPICAL SECTIONS
- 9 14. ROADWAY AND PAVEMENT MARKING PLANS
- PROPOSED SIDEWALK RAMP DETAILS 15 - 24.
- 25 32. DETECTOR LOOP REPLACEMENT PLANS
- REMOVE AND REERECT STEEL PLATE BEAM GUARDRAIL (BM-21) 33 - 36.
  - DRIVEWAY DETAILS DISTANCE BETWEEN ROW AND FACE OF CURB < 15' 37. (BD-02)
  - 38. DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
  - PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22) 39.
  - CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24) 40.
  - BUTT JOINT AND HMA TAPER DETAILS (BD-32) 41.
  - ENTRANCE AND EXIT RAMP CLOSURE DETAILS (TC-08) 42.
  - TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, 43. AND DRIVEWAYS (TC-10)
  - TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS 44. (SNOW-PLOW RESISTANT) (TC-11)
  - DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13) 45.
  - TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN 46. TO TRAFFIC) (TC-14)
  - SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16) 47.
  - 48. ARTERIAL ROAD INFORMATION SIGN (TC-22)
  - DRIVEWAY ENTRANCE SIGNING (TC-26) 49.
  - DISTRICT ONE DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY 50. RESURFACING (TS-07)

## STATE HIGHWAY STANDARDS

<u>STANDARD NO.</u> 000001-06	DESCRIPTION STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS	8.	REFORE BEG FUTURE REF REFLECTIVE RE-ESTABLI
424001-10	PERPENDICULAR CURB RAMPS FOR SIDEWALKS		SHALL BE A
424021- 5 <del>'1</del>	DEPRESSED CORNER FOR SIDEWALKS	9.	ALL PAVEME
442201-03	CLASS C AND D PATCHES		ENGINEER.
604091-03	FRAME AND GRATE TYPE 24	10.	DRAINAGE A
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER	11	FRAME AND
606211-0 <del>4</del>	PC CONCRETE ISLANDS AND MEDIANS		LIMITS OF
630001-12	STEEL PLATE BEAM GUARDRAIL		NOT PART (
635001-02	DELINEATORS	12.	THE CONTRA
701006-05	OFF-ROAD OPERATIONS, 2L, 2W, 15' TO 24" FROM PAVEMENT EDGE		SUPERVISOR WORK.
701011-04	OFF-ROAD MOVING OPERATIONS, 2L, 2W, DAY ONLY	13.	THE RESIDE
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' TO 24" FROM PAVEMENT EDGE		FIELD ENGIN
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' AWAY		WEEKS PRIO
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS	14.	THE CONTRA
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY		
701411-09	LANE CLOSURE, MULTILANE. AT ENTRANCE OR EXIT RAMP . FOR SPEEDS 2 45 MPH	15.	THE CONTRA THE BURIED OR RIGHT 0
701426-09	LANE CLOSURE, MULTILANE. INTERMITTENT OR MOVING OPERATIONS, FOR SPEEDS $\Sigma$ 45 MPH		CONTRACTOR
701501-06	URBAN LANE CLOSURE. 2L, 2W UNDIVIDED	16.	EXISTING BI
701601-09	URBAN SINGLE LANE CLOSURE, MULTILANE, 1W OR 2W WITH NON TRAVERSABLE MEDIAN		REPLACEMEN OF THE STA
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION		PROVIDED.
701801-06	SIDEWALK, CORNER OR CROSSWALK CLOSURE	17.	BUTT JOINT RESURFACIN
701901-07	TRAFFIC CONTROL DEVICES		HOT-MIX AS
782006	GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS		OTHERWISE

#### **GENERAL NOTES**

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- 2. TEN (10) FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED CURB AND GUTTER AND MEDIAN ITEMS OF WORK TO EXISTING CURBS AND GUTTER AND MEDIANS IN THE FIELD, UNLESS OTHERWISE SHOWN. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEMS OF WORK SPECIFIED.
- 3. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES, AND THE VILLAGES OF GURNEE AND LAKE VILLA.
- 4. THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- 5. 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.
- 6. ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- 7. IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OFMATERIALS.

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PLOT DATE = 2/2/2018	DATE -	REVISED -			SCALE: 1"= 50'	SHEET 1	OF 1	SHEETS	STA. TO S	STA.		ILLINOIS FED. A	D PROJECT	

8. 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 ENGINEER.

ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE

DRAINAGE ADJUSTMENT OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

FRAME AND GRATES/LIDS ADJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE IMPROMENTS SHALL BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS CONTRACT.

THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847)705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING

THE RESIDENT ENGINEER SHALL CONTACT WALTER CZARNY, ARTERIAL TRAFFIC FIELD ENGINEER VIA E-MAIL AT WALTER.CZARNY@ILLINOIS.GOV, A MINIMUM OF 2 WEEKS PRIOR TO PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

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

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

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

BUTT JOINTS WILL BE INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACINGMEETS EXISTING PAVEMENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DETAILS"SHEET INCLUDED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

18. WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1 1/2 INCHES (40mm) WHERE THE SPEED LIMIT IS 40 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.

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

20. UNLESS OTHER CONDITIONS WARRANT EXTENDED LANE CLOSURES AS DETERMINED AND APPROVED IN WRITING BY THE ENGINEER OR AS PROVIDED FOR IN THE CONTRACT SPECIFICATIONS, OVERNIGHT LANE CLOSURES SHALL NOT BE ALLOWED FOR REHABILITATION PROJECTS INVOLVING DAYTIME MILLING AND RESURFACING OPERATIONS AND CLASS D PATCHING.

21. DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

REMOVAL.

22. CONTRACTOR SHALL MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.

23. REMOVED GUARDRAIL MUST BE REPLACED ON THE SAME DAY UNLESS AUTHORIZED BY THE RESIDENT ENGINEER. NO LOCATIONS WILL BE LEFT WITHOUT EITHER LIGHTED BARRICADES OR RESTORED GUARDRAIL AT ANY TIME.

24. REMOVAL OF EXISTING IMPACT ATTENUATORS SHALL BE PAID AS GUARDRAIL

25. ANY DEBRIS REMOVAL UNDER GUARDRAIL WILL BE PAID AS REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL,

			URBAN									
	SUMMARY OF QUANTITIES			ļ	CONST	RUCTION TYP	E CODE			SUM	MARY OF QUANTITIES	
			TOTAL	807 550				Í				- <u>-</u>
CODE NO	ITEM	UNIT	TOTAL	20%STATE 0005			-	-	CODE NO		ÎTEM	UNIT
20200100	EARTH EXCAVATION	CU YD	45	45					40603335		SPHALT SURFACE COURSE, MIX	
										"D", N50	STRALI SURFACE COURSE, MIX	TON
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE	CU YD	18	18								
i	MATERIAL								40603340	HOT-MIX AS	SPHALT SURFACE COURSE, MIX	TON
										"D", N70		
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	180	180								
									42001300	PROTECTIVE	E CÔAT	SO YD
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	2	2								
									42300400	PORTLAND C	EMENT CONCRETE DRIVEWAY	SO YD
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	2	2						PAVEMENT,	8 INCH	
25200110	SODDING, SALT TOLERANT	SO YD	180	180					42400200	PORTLAND C	EMENT CONCRETE SIDEWALK 5	SQ FT
25 200200		· · ·								INCH		
25200200	SUPPLEMENTAL WATERING		2	2								
35501308	HOT-MIX ASPHALT BASE COURSE, 6"	SQ YD	230	330					42400800	DETECTABLE	WARNINGS	SO FT
				230								
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	100710	100710					44000161	HOI-MIX AS	PHALT SURFACE REMOVAL, 3"	SO YD
			·						44000200		AVEMENT REMOVAL	
40600400	MIXTURE FOR CRACKS, JOINTS, AND	TON	224	224		-		_				SQ YD
	FLANGEWAYS		· · · · · · · · · · · · · · · · · · ·	-					44000600	SIDEWALK R	EMOVAL	SO FT
												_
40600827	POLYMERIZED LEVELING'BINDER (MACHINE	TON	8210	8210					44002212	HOT-MIX AS	PHALT REMOVAL OVER PATCHES,	SO YD
	METHOD), IL-4.75, N50									3"		
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SO YD	1155	1155					44003100	MEDIAN REM	DVAL	SQ FT
	JOINT											
10601005	HOT-MIX ASPHALT REPLACEMENT OVER				· _				44004250	PAVED SHOUL	DER REMOVAL	SO YD
	PATCHES	TON	1124	1124								
m									44201749		CHES, TYPE I, 9 INCH	SO YD
	USER NAME = gulikumafp								N)		■ SPECIALTY ITEMS > NON-PARTICIPATION ITEMS	
		DESIGNED -		REVISED - REVISED -	<u> </u>			STATE OF I				<u>.t_</u>
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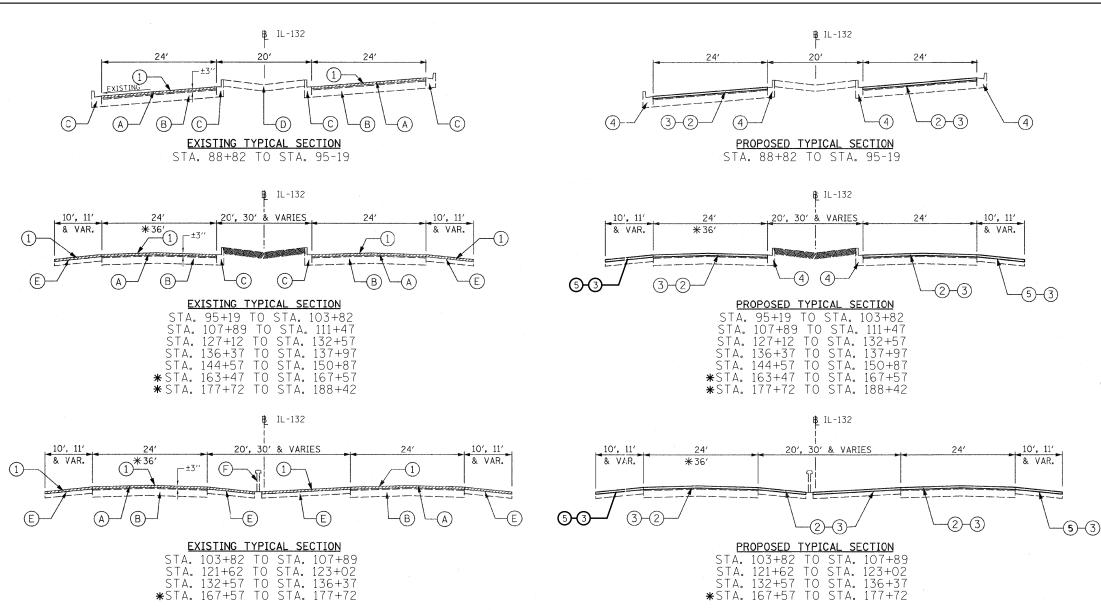
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IES		541	X-R-RS		LAKE	50	3

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44201753		UNIT	TOTAL QUANTITIES	80% FED 20%STATE 0005						C	CODE NO		ITEM	UNIT
	CLASS D PATCHES, TYPE II, 9 INCH	SO YD	2090	2090						* 6	4 3005 30	IMPACT ATTEN	NUATORS (PARTIALLY	EACH
												REDIRECTIVE	), TEST LEVEL 3	
44201757	CLASS D PATCHES, TYPE III, 9 INCH	sa yd	1 900	1900										
	·				-			-		* 6	6900200	NON-SPECIAL	WASTE DISPOSAL	CUYD
44201759	CLASS D PATCHES, TYPE IV, 9 INCH	SQ YD	1900	1900										
60250200	CATCH BASINS TO BE ADJUSTED	EACH	12	12						* 6	6900450	SPECIAL WAS	TE PLANS AND REPORTS	LSUM
										* 6	6900530	SOIL DISPOSA	AL ANALYSIS	ЕАСН
60252800	CATCH BASINS TO BE RECONSTRUCTED	EACH	8	8										
										6	57000400	ENGINEER'S I	FIELD OFFICE, TYPE A	CAL MO
60266600	VALVE BOXES TO BE ADJUSTED	EACH	2	2										
										6	57100100	MOBILIZATIO	N	LSUM
60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	28	28							0102620		TROL AND PROTECTION.	LSUM
60404950	FRAMES AND GRATES, TYPE 24	EACH	5	5							0102620	STANDARD 70		L SUM
							<u> </u>							
60618300	CONCRETE MEDIAN SURFACE, 4 INCH	SO FT	980	980						7	70102630	TRAFFIC CON	TROL AND PROTECTION.	LSUM
												STANDARD 70	1601	
60618320	CONCRETE MEDIAN SURFACE, 6 INCH	SO FT	1500	1500		1								
		SO FT	10000	10000							70102635	TRAFFIC CON STANDARD 70	TROL AND PROTECTION.	LSUM
60619600	CONCRETE MEDIAN, TYPE SB-6.12	50 FT	10000									STANDARD TO		
63000001	STEEL PLATE BEAM GUARDRAIL, TYPE A, 6	FOOT	1000	1000				1		7	10102640	TRAFFIC CON	TROL AND PROTECTION,	LSUM
	FOOT POSTS											STANDARD 70	1801	
63200310	GUARDRAIL REMOVAL	FOOT	1400	1400							70300100	SHORT TERM I	PAVEMENT MARKING	FOOT
63301210	REMOVE AND REERECT STEEL PLATE BEAM	FOOT	210	210	. — . — . — . — . — . — . — . — . — . —		-			7	70300150	SHORT TERM I	PAVEMENT MARKING REMOVAL	SO FT
	GUARDRAIL. TYPE A													
						<u> </u>					70300210		AVEMENT MARKING LETTERS AND	SO FT
A Contraction of the second se	* SPECIALTY ITEMS A NON-PARTICIPATION ITEMS			DEVICES		<u> </u>					3	SYMBOLS		-
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					ULBAN											
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	CODE NO		ITEM	UNIT	TOTAL	80% FED 20%STATE 0005							CODE NO		ITEM	UNIT
	70300220	TEMPORARY PA	VEMENT MARKING - LINE 4"	FOOT	55650	55650						*	78100100	RAISED REFL	ECTIVE PAVEMENT MARKER	EACH
	70300240	TEMPORARY PA	VEMENT MARKING - LINE 6"	FOOT	14760	14760						*	78200005	GUARDRAIL F	REFLECTORS, TYPE A	EACH
	70300250	TEMPORARY PA	VEMENT MARKING - LINE 8"	FOOT	2497	2497							78300200	RAISED REFL	ECTIVE PAVEMENT MARKER	EACH
	70300260	TEMPORARY PA	VEMENT MARKING - LINE 12"	FOOT	4272	4272						$\left  \right $		REMOVAL		
			,									•	87900200	DRILL EXIST	ING HANDHOLE	EACH
	70300280	TEMPORARY PA	VEMENT MARKING - LINE 24"	FOOT	1250	1250							88600600	DETECTOR LO	OP REPLACEMENT	FOOT
	70300520	PAVEMENT MAR	KING TAPE. TYPE III 4"	FOOT	16395	16395										
	20400500			EACH	1	1						*	89502376	REBUILD EX	ISTING HANDHOLE	EACH
	72400500	RELUCATE STG	N PANEL ASSEMBLY - TYPE A	EACH									x0320050	CONSTRUCTIO	ON LAYOUT (SPECIAL)	LSUM
*	78000100		C PAVEMENT MARKING -	SQ FT	3810	3810										_
		LETTERS AND	SYMBOLS										X4060004		D HOT-MIX ASPHALT SURFACE	TON
*	78000200	THERMOPLASTI	C PAVEMENT WARKING - LINE	FOOT	55650	55650										
		4″											x5537800	STORM SEWEI	RS TO BE CLEANED 12"	FOOT
*	78000400	THERMOPLAST	C PAVEMENT MARKING - LINE	FOOT	14760	14760							x6030310	FRAMES AND	LIDS TO BE ADJUSTED	EACH
		6"								- -				(SPECIAL)		
*	78000500	THERMOPLASTI	C PAVEMENT MARKING - LINE	FOOT	2497	2497	-						X7030005	TEMPORARY	PAVEMENT MARKING REMOVAL	SQ FT
		8″								   .			Z0004562	COMBINATIO	N CONCRETE CURB AND GUTTER	FOOT
*	78000600	THERMOPLAST	C PAVEMENT MARKING - LINE	FOOT	4272	4272								REMOVAL AN	DREPLACEMENT	
		12"											Z00710000 Z0018500	TRAIN <del>CE</del> S DRAINAGE S	TRUCTURES TO BE CLEANED	HOUR EACH
*	78000650	THERMOPLAST	C PAVEMENT MARKING - LINE	FOOT	1250	1250						Ø	20076604	TRAINCES - TRA	IINING ALOGRAM GRADUATE	Howe
	3	24"											Z0030850	TEMPORARY	INFORMATION SIGNING	SQ FT
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	TIES						NO. 62F26
TA.	Т	O STA.	FED. RO	DAD DIST. NO. 1 [	LLINOIS FED. AID		



MIXTURE REQUIREMENTS		QUALITY MANAGEMENT
MIXTURE USES	VOIDS © Ndes	PROGRAM (QMP)
PAVEMENT RESURFACING		
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASHPHALT, 9.5, N80	3.5% AT 80 GYR.	PFP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% AT 50 GYR.	QCP
OUTSIDE SHOULDER RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL-9.5 mm)	4% AT 70 GYR.	QCP
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	3.5% AT 50 GYR.	QCP
PATCHING		
CLASS D PATCHES (HMA BINDER, IL-19.0 mm)	4% AT 70 GYR.	0C/0A
HMA REPLACEMENT OVER PATCHES (HMA BINDER, IL-19.0 mm)	4% AT 70 GYR.	0C/0A
DRIVEWAYS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5 mm)	4% AT 50 GYR.	0C/0A
HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19 mm); PE, 6"	4% AT 50 GYR.	0C/0A
QMP Designation: Pay for Performance (PFP); Quality Control/Quality Ass	urance (QC/QA); Quality	Control for Performance (QCP)

#### NOTE:

- 2.
- 3. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS.
- APPLIES TO THE HMA MIXTURE

USER NAME = guillaumefp	DESIGNED -	REVISED -			FXISTIN	3 & PROP		PICAL SEC	CTIONS	F.A.P. BTE	SECTION	COUNTY	TOTAL S	HEET
	DRAWN -	REVISED -	STATE OF ILLINOIS		ND AVE.)					541	X-R-RS-2	LAKE	50	6
PLOT SCALE = 100.0000 / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	IL. RIE. 132 (GRA	IND AVE.)	US RIE.	45 (LAN	- 51.) 101-3	94 (TRI-STATE TOLLWAY))			CONTRAC	F NO. 62F	26
PLOT DATE = 2/2/2018	DATE -	REVISED -		SCALE: NONE	SHEET 1	OF 3	SHEETS	STA.	TO STA.		ILLINOIS FEE	AID PROJECT		

#### EXISTING CONDITIONS:

- (A) HOT-MIX ASPHALT SURFACE, ±3"
- (B) P.C.C. BASE COURSE, 9", P.C.C. PAVEMENT, 10",
- HMA PAVEMENT, 12" (FULLDEPTH)
- (C) COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 OR TYPE B-6.12
- (D) CONCRETE MEDIAN, BARRIER, TYPE B-6.24
- (D1) CONCRETE MEDIAN SURFACE, 4" & VARIES
- (E) HMA SHOULDERS / HMA SHOULDERS, FULL DEPTH
- (F) GUARDRAIL

#### PROPOSED IMPROVEMENTS:

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 3"
- (2) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, S.M.A., 9.5, N80, 2"
- (3) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- (4) COMB. CONC. CURB AND GUTTER REMOVAL AND REPLACEMENT
- (AS DETERMINED BY THE ENGINEER)
- 5 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"

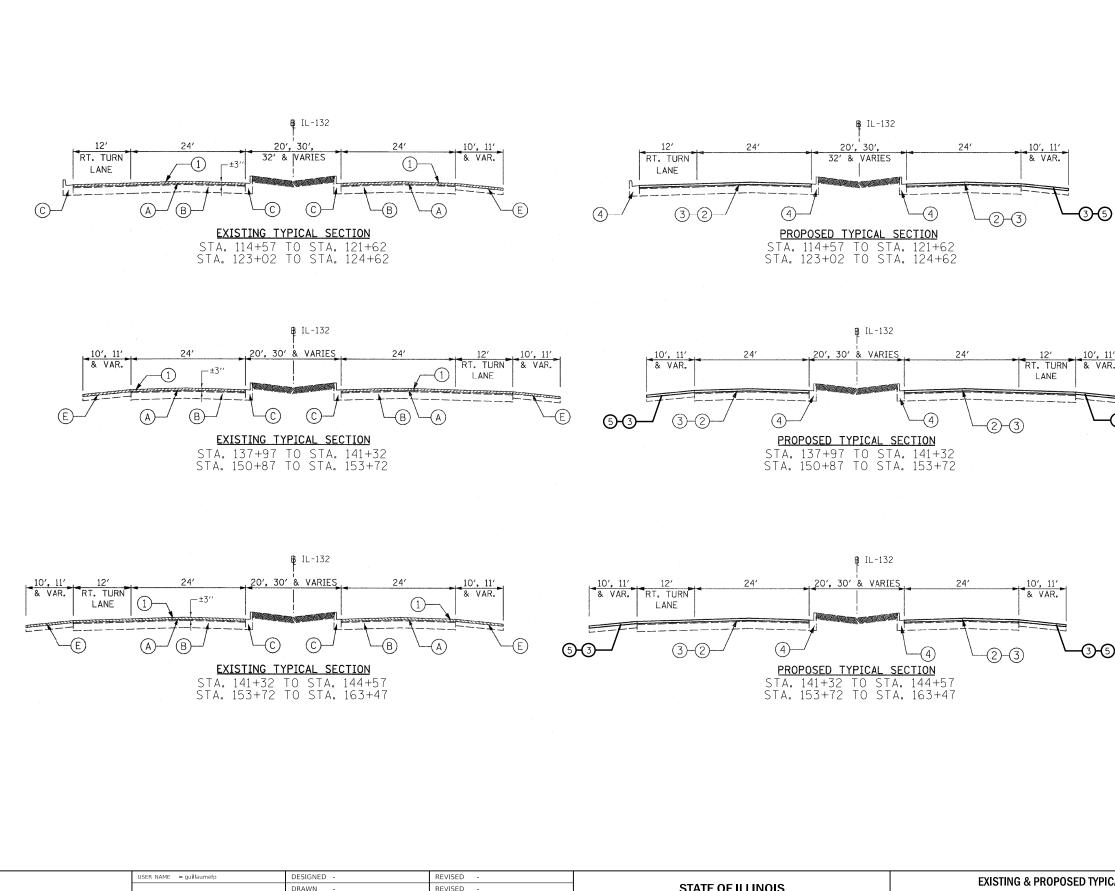
NOTES:

- 1. CONTRACTOR SHALL PATCH FIRST BEFORE MILLING.
- 2. CONTRACTOR SHALL MATCH EXISTING ROADWAY SLOPES.

1. THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/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.

4. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT



LOT SCALE = 100.0000 ' / in.

PLOT DATE = 2/2/2018

CHECKED

DATE

REVISED

REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

#### IL. RTE. 132 (GRAND AVE.) (US RTE. 45 (LAK SCALE: NONE SHEET 1 OF 3 SHEET

#### EXISTING CONDITIONS:

- (A) HOT-MIX ASPHALT SURFACE, ±3"
- B P.C.C. BASE COURSE, 9", P.C.C. PAVEMENT, 10", HMA PAVEMENT, 12" (FULLDEPTH)
- C COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 OR TYPE B-6.12
- (D) CONCRETE MEDIAN, BARRIER, TYPE B-6.24
- (D1) CONCRETE MEDIAN SURFACE, 4" & VARIES
- (E) HMA SHOULDERS / HMA SHOULDERS, FULL DEPTH
- (F) GUARDRAIL

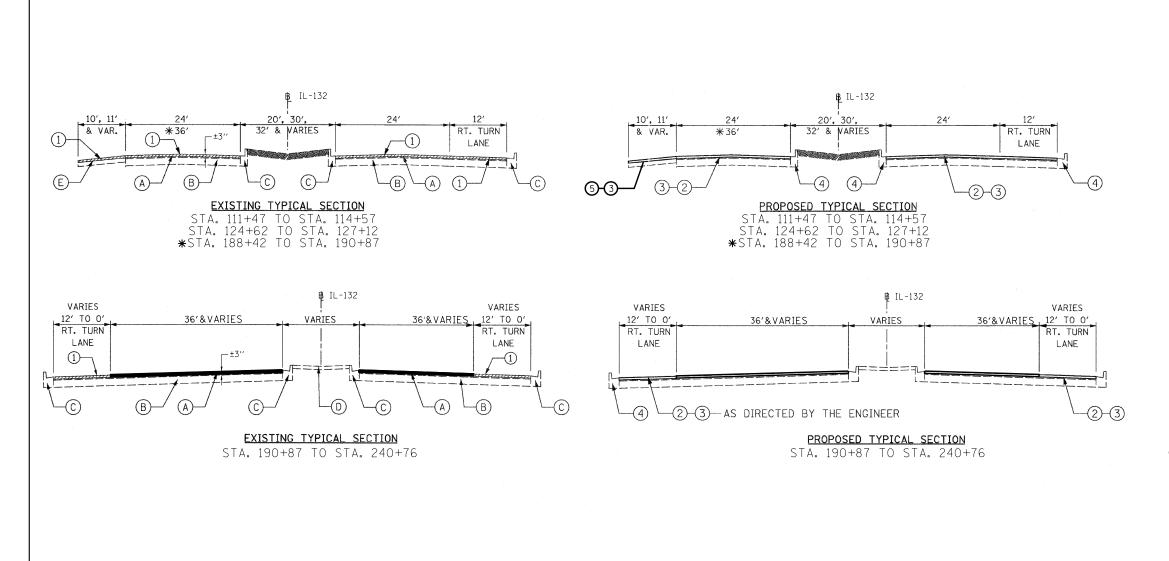
#### PROPOSED IMPROVEMENTS:

- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 3"
  - (2) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, S.M.A., 9.5, N80, 2"
  - (3) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
  - (4) COMB. CONC. CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DETERMINED BY THE ENGINEER)
  - 5 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"

3-5

3-6)

TΥ	PICAL S	ECTIONS	F.A.P. RTE	SECT	ΠΟΝ		COUNTY	TOTAL SHEETS	SHEET NO.
ΚF	STITO	I-94 (TRI-STATE TOLLWAY))	541	X-R-I	RS-2		LAKE	50	7
	51.) 10						CONTRACT	NO. 62	2F26
TS	STA.	TO STA.			ILLINOIS	FED. AI	D PROJECT		



USER NAME = guillaumefp	DESIGNED -	REVISED -		EXISTING & PROPOSED TYPICAL SECTIONS	F.A.P. SECTION	COUNTY TOTAL SHEET SHEETS NO.
	DRAWN -	REVISED -	STATE OF ILLINOIS		541 X-R-RS-2	LAKE 50 8
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	IL. RTE. 132 (GRAND AVE.) (US RTE. 45 (LAKE ST.) TO I-94 (TRI-STATE TOLLWAY))		CONTRACT NO. 62F26
PLOT DATE = 2/2/2018	DATE -	REVISED -		SCALE: NONE SHEET 1 OF 3 SHEETS STA. TO STA.	ILLINOIS	FED. AID PROJECT

#### EXISTING CONDITIONS:

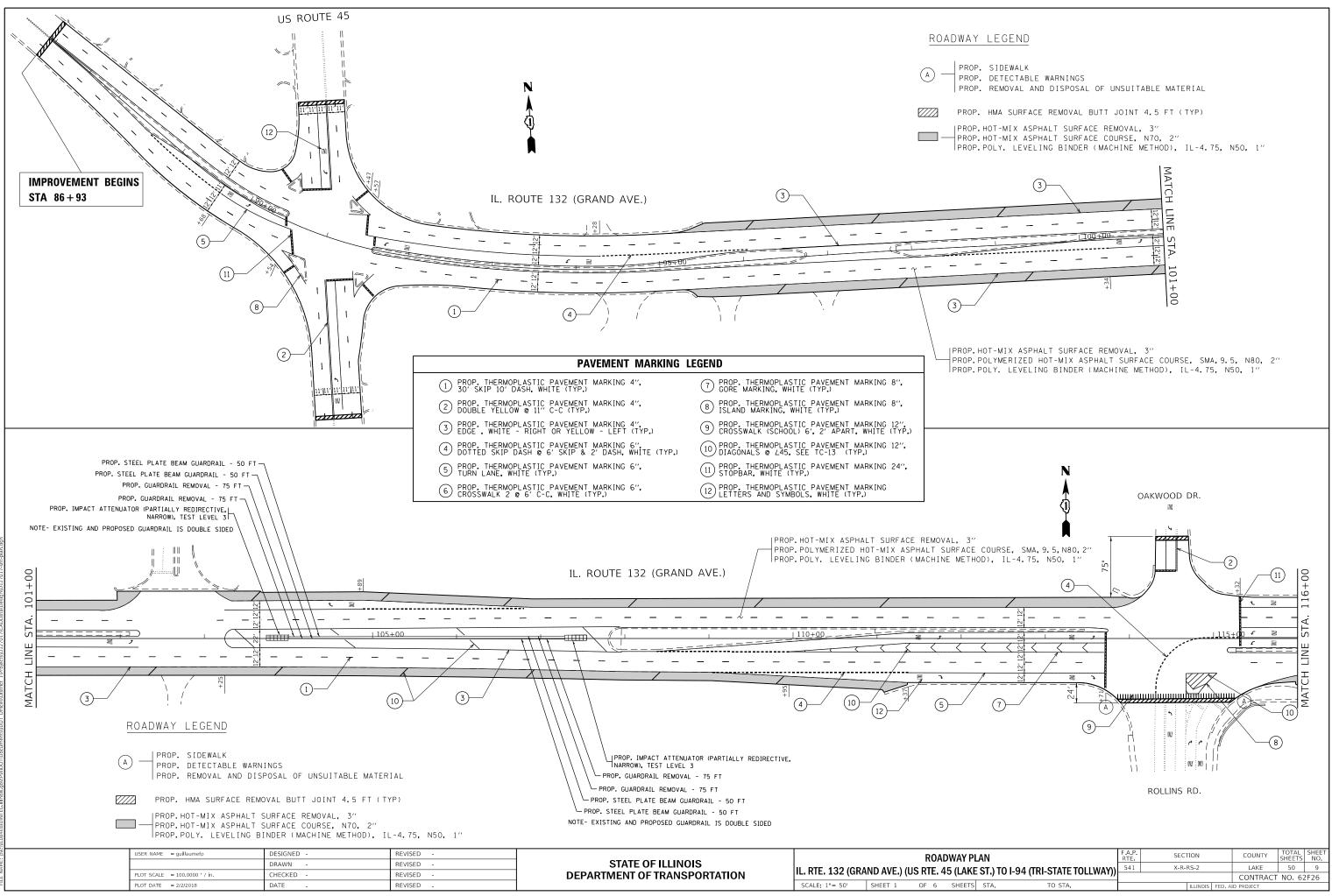
- (A) HOT-MIX ASPHALT SURFACE, ±3"
- B P.C.C. BASE COURSE, 9", P.C.C. PAVEMENT, 10",

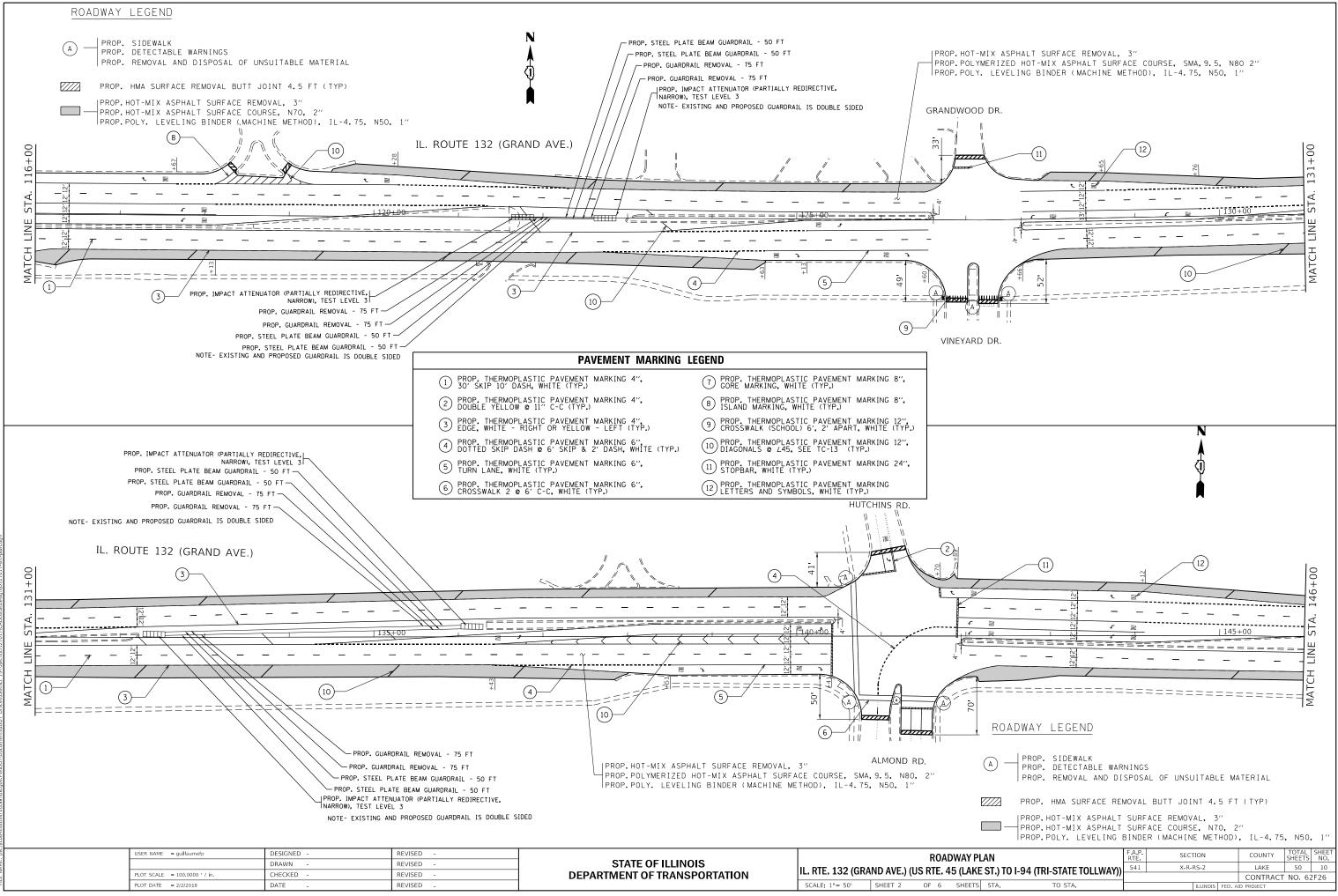
HMA PAVEMENT, 12" (FULLDEPTH)

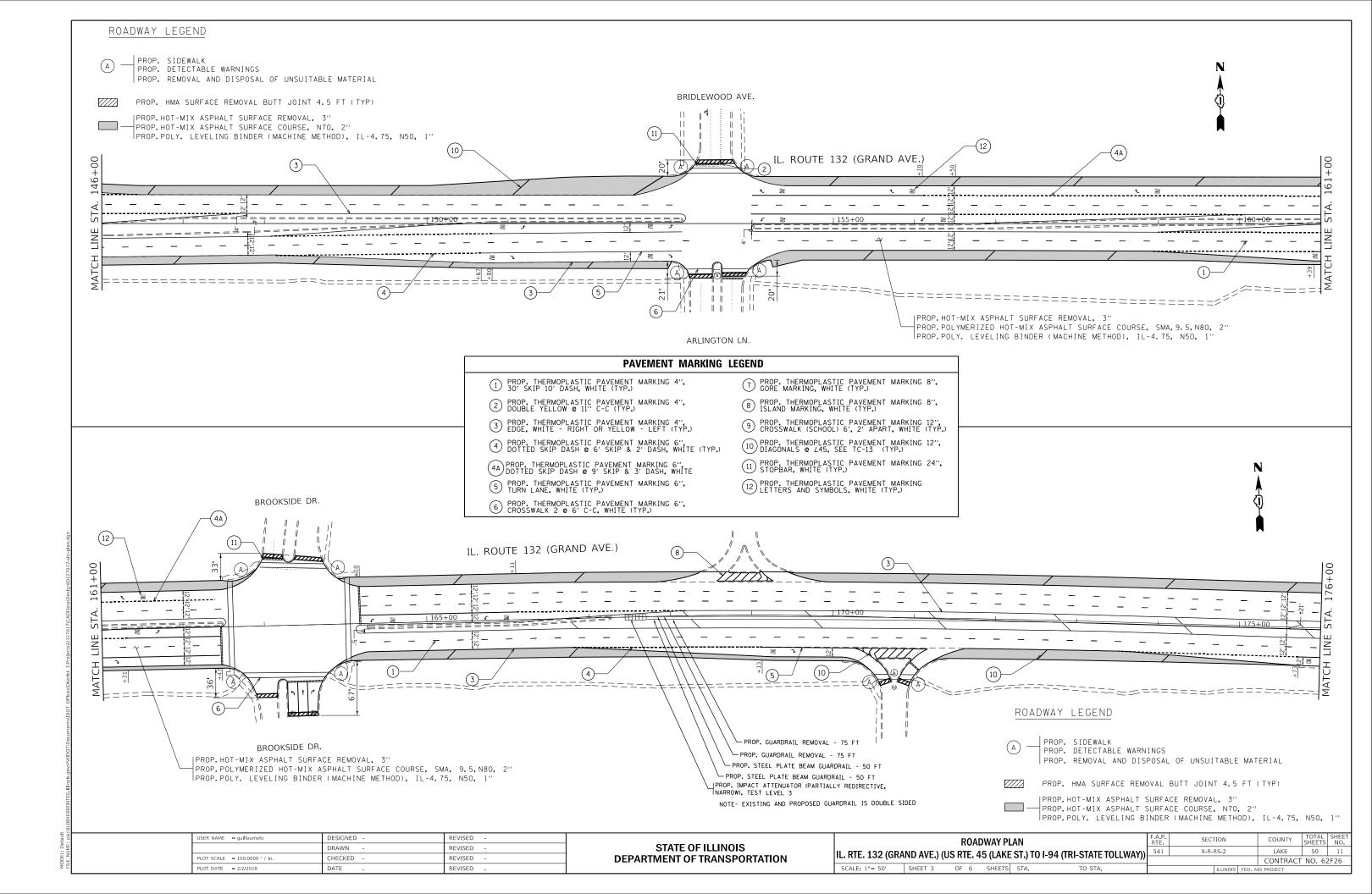
- C COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24 OR TYPE B-6.12
- (D) CONCRETE MEDIAN, BARRIER, TYPE B-6.24
- (D1) CONCRETE MEDIAN SURFACE, 4" & VARIES
- (E) HMA SHOULDERS / HMA SHOULDERS, FULL DEPTH
- (F) GUARDRAIL

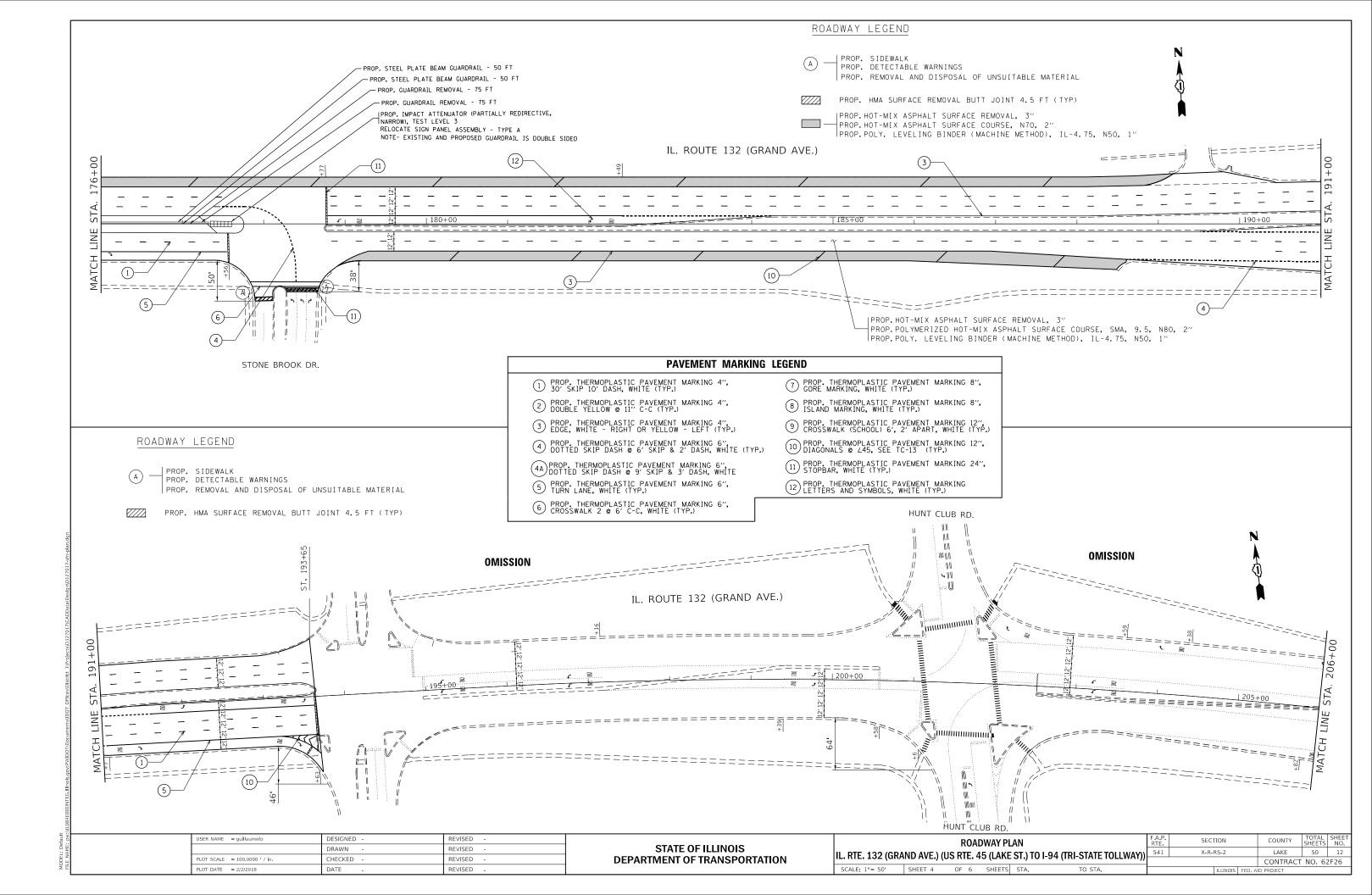
#### PROPOSED IMPROVEMENTS:

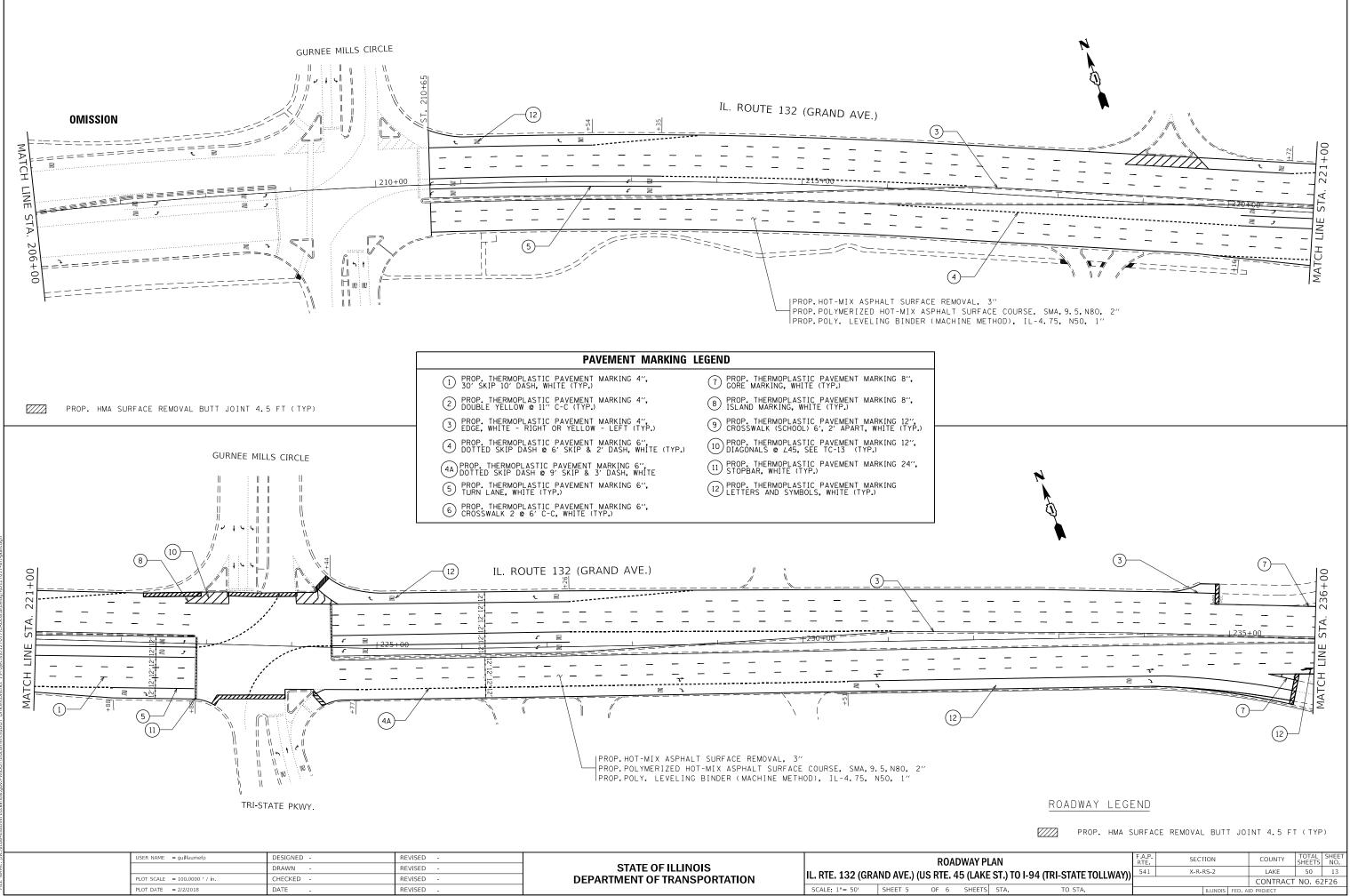
- (1) HOT-MIX ASPHALT SURFACE REMOVAL, 3"
- (2) POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, S.M.A., 9.5, N80, 2"
- (3) POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1"
- (4) COMB. CONC. CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DETERMINED BY THE ENGINEER)
- (5) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 2"



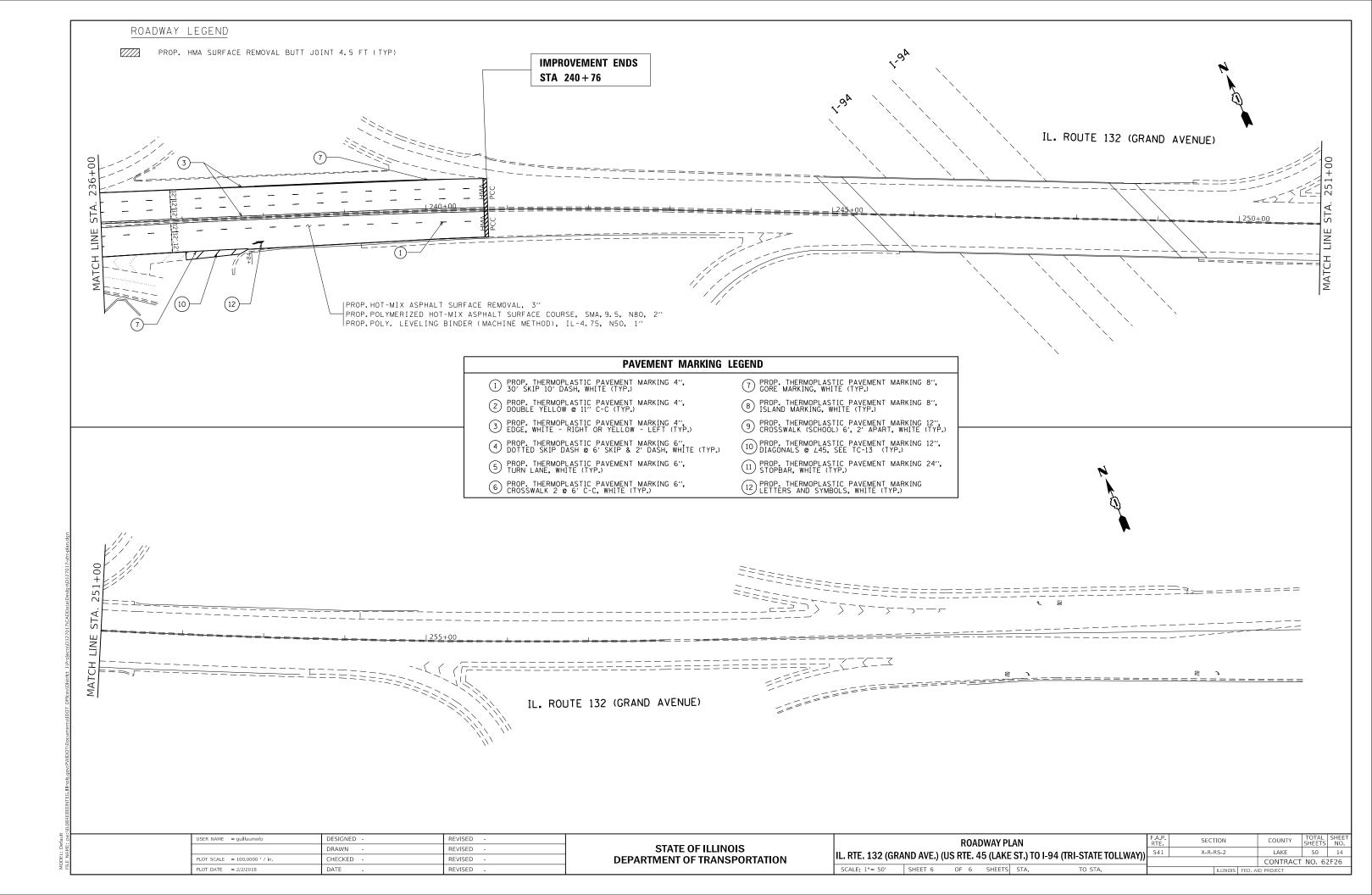


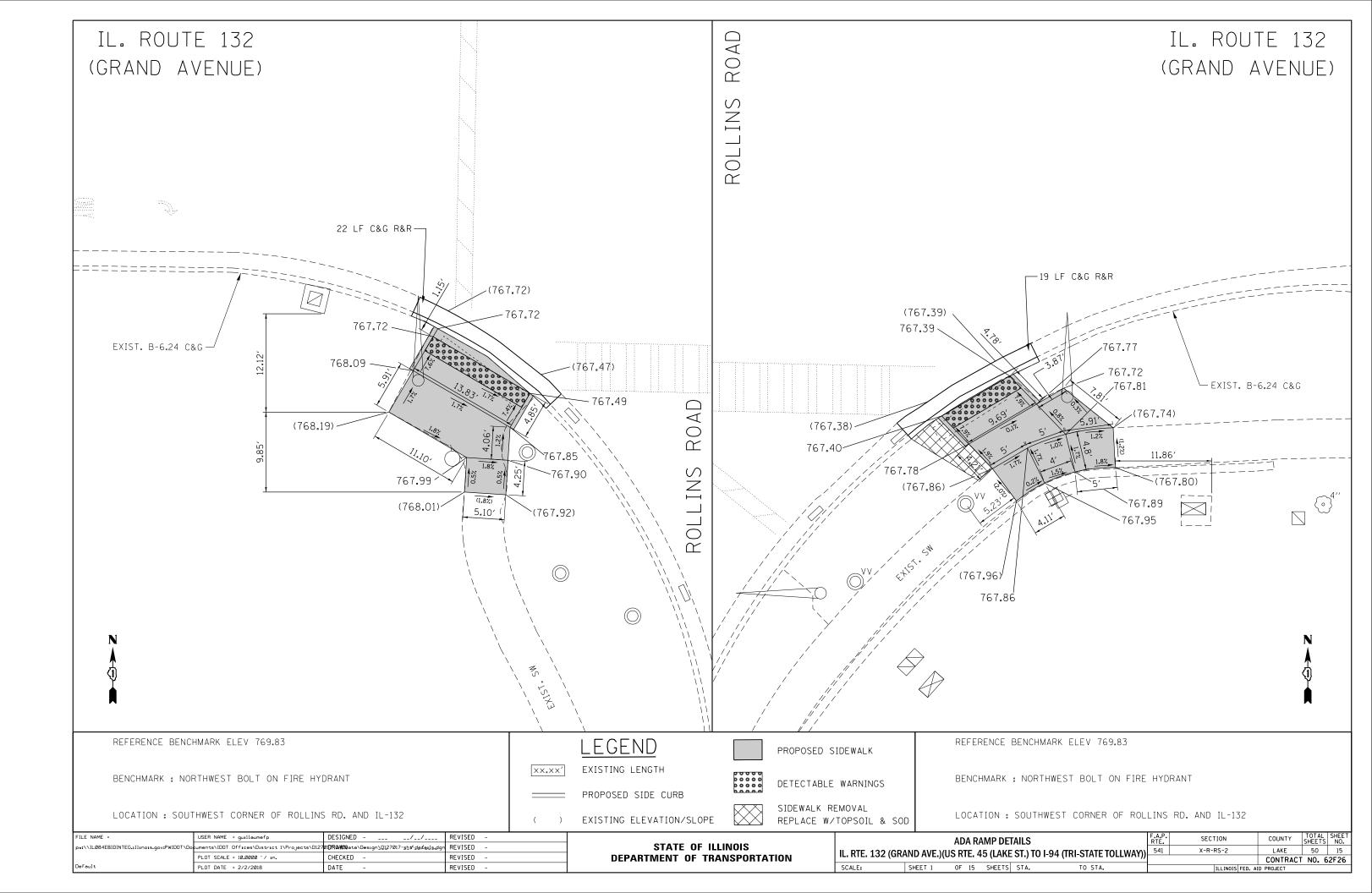


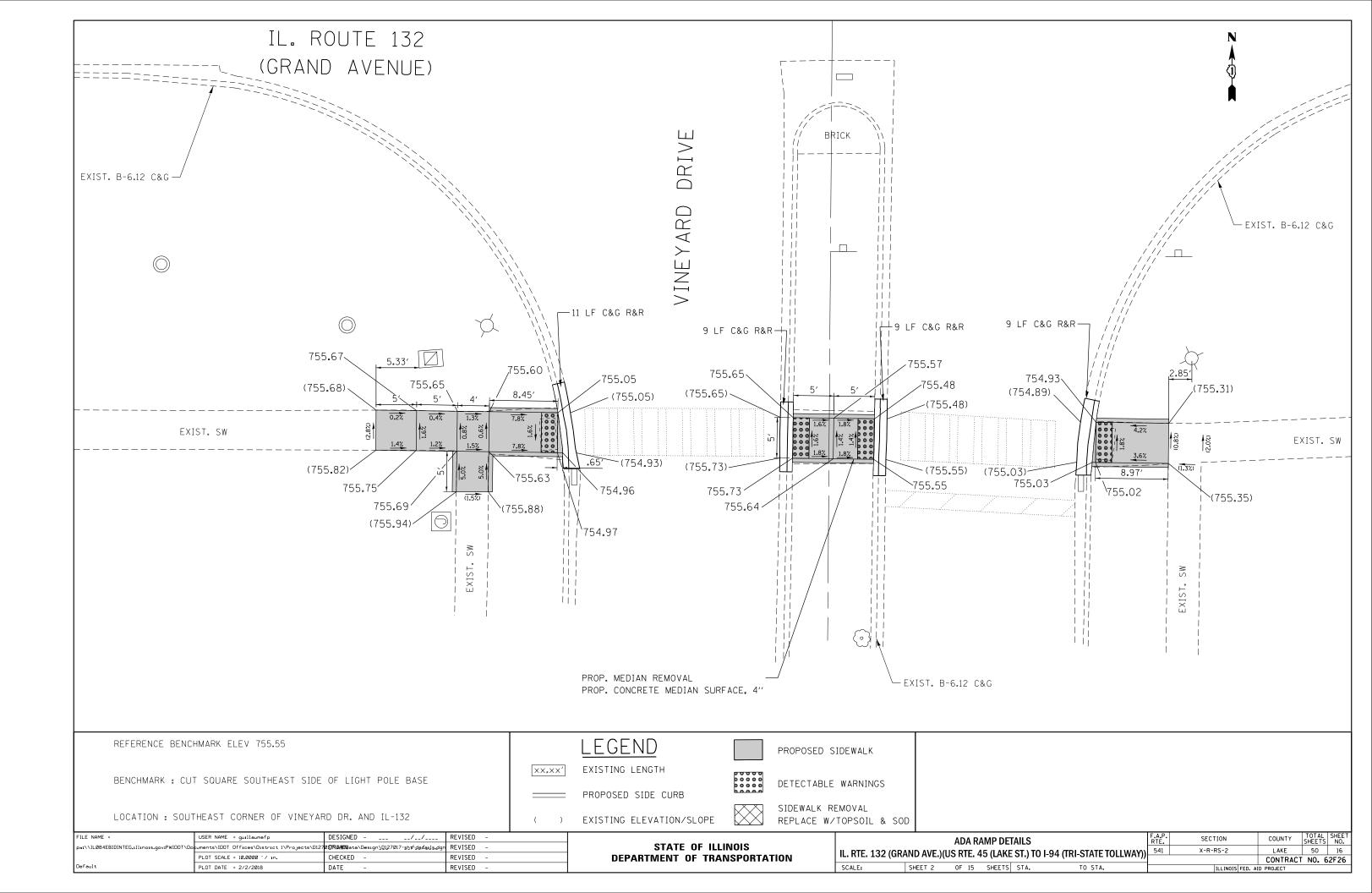


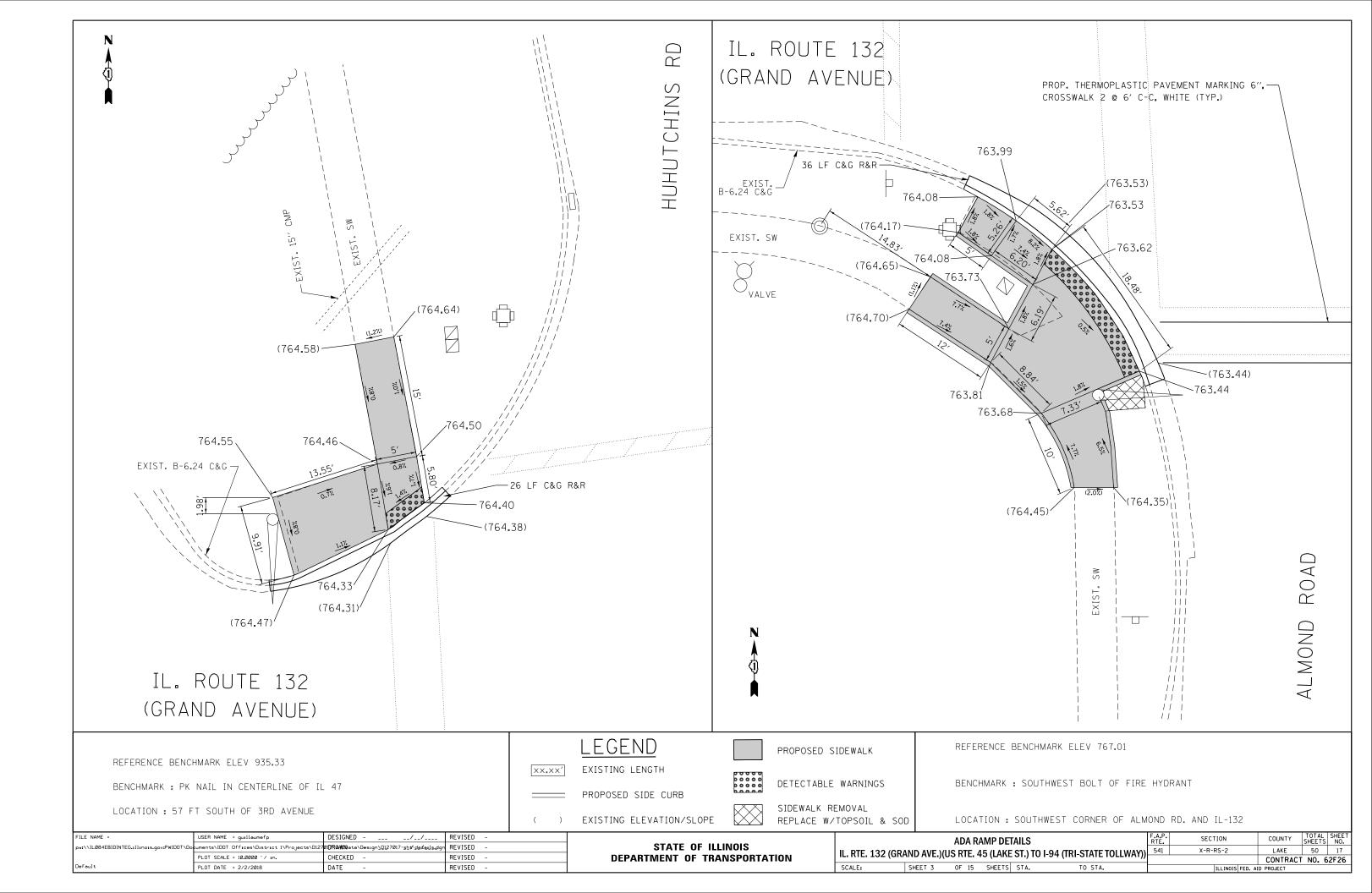


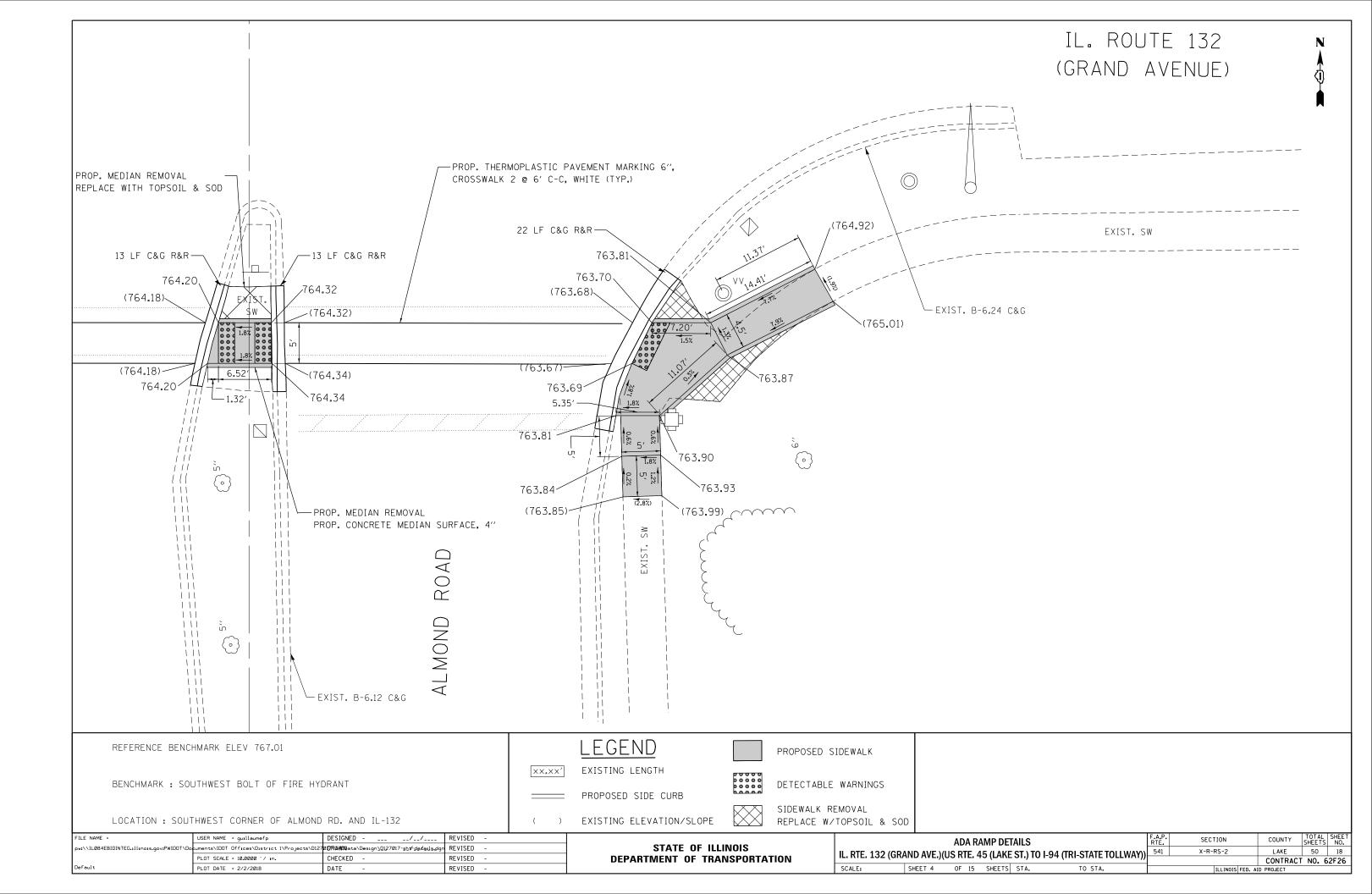
F	E ST.) TO I-94 (TRI-STATE TOLLWAY))		541	X-R-I	RS-2		LAKE	50	13
-	. 51.) 101-	34 (IRI-STATE TOLEWAT))					CONTRACT	NO. 62	2F26
5	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		

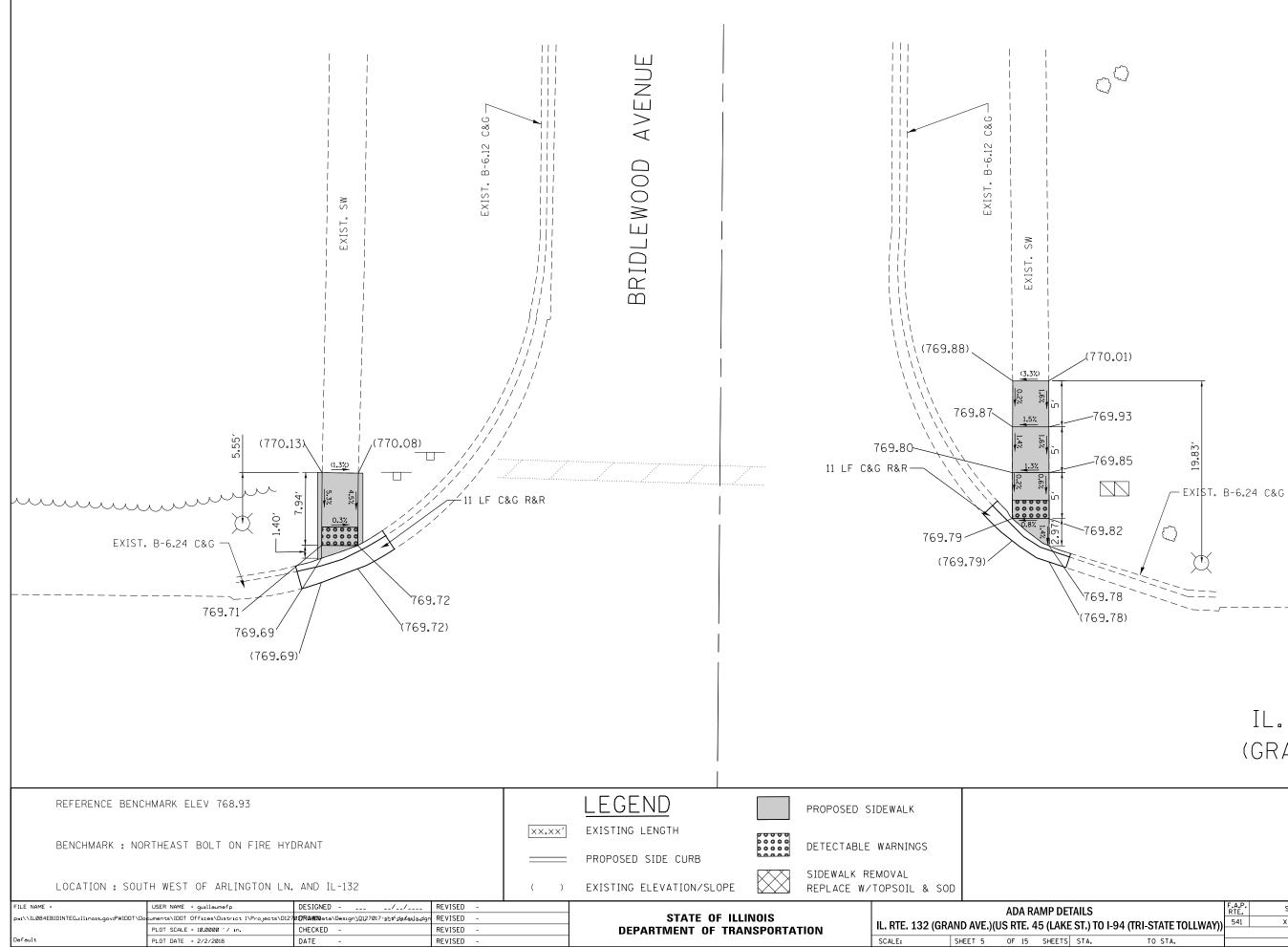






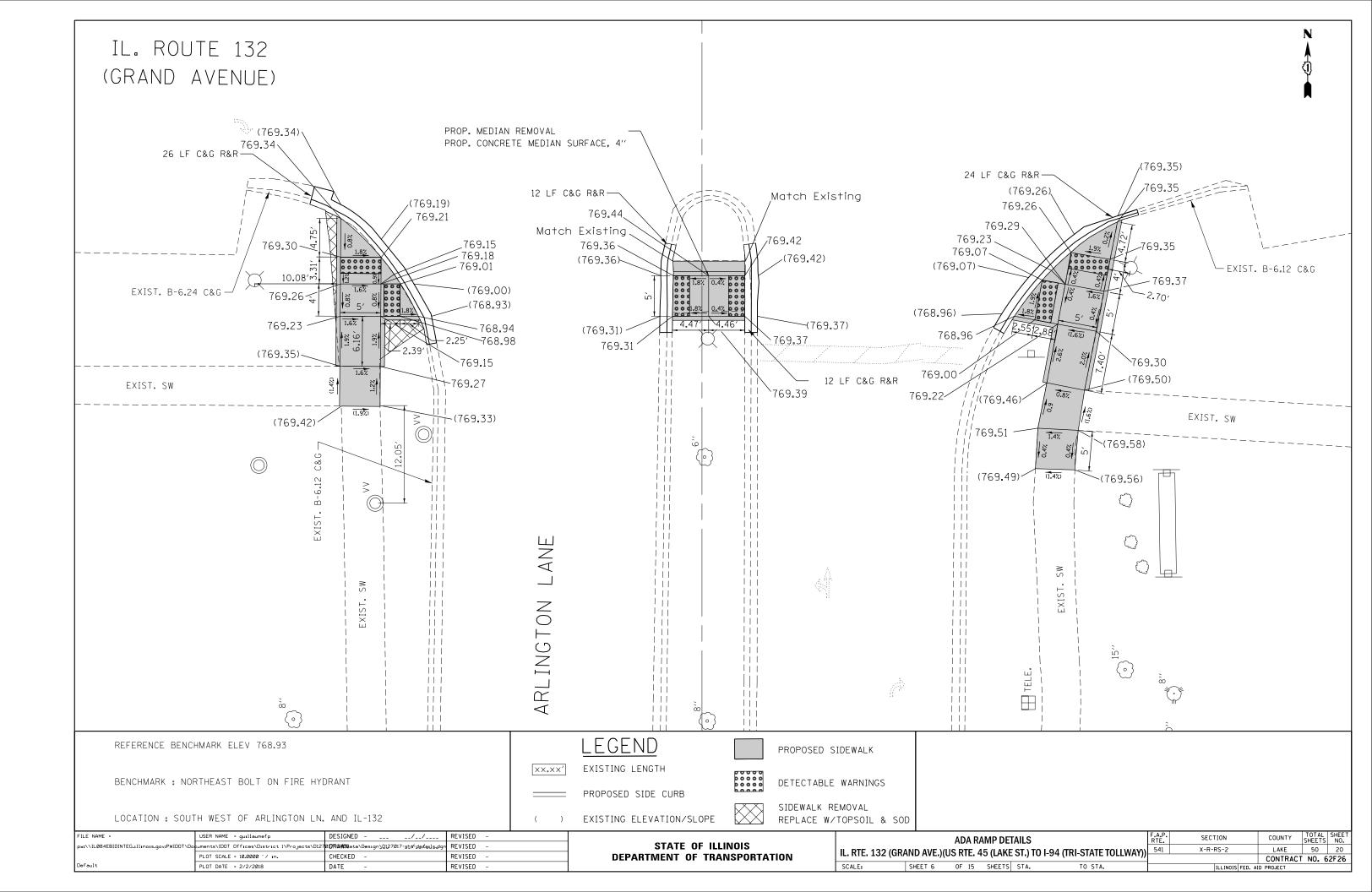


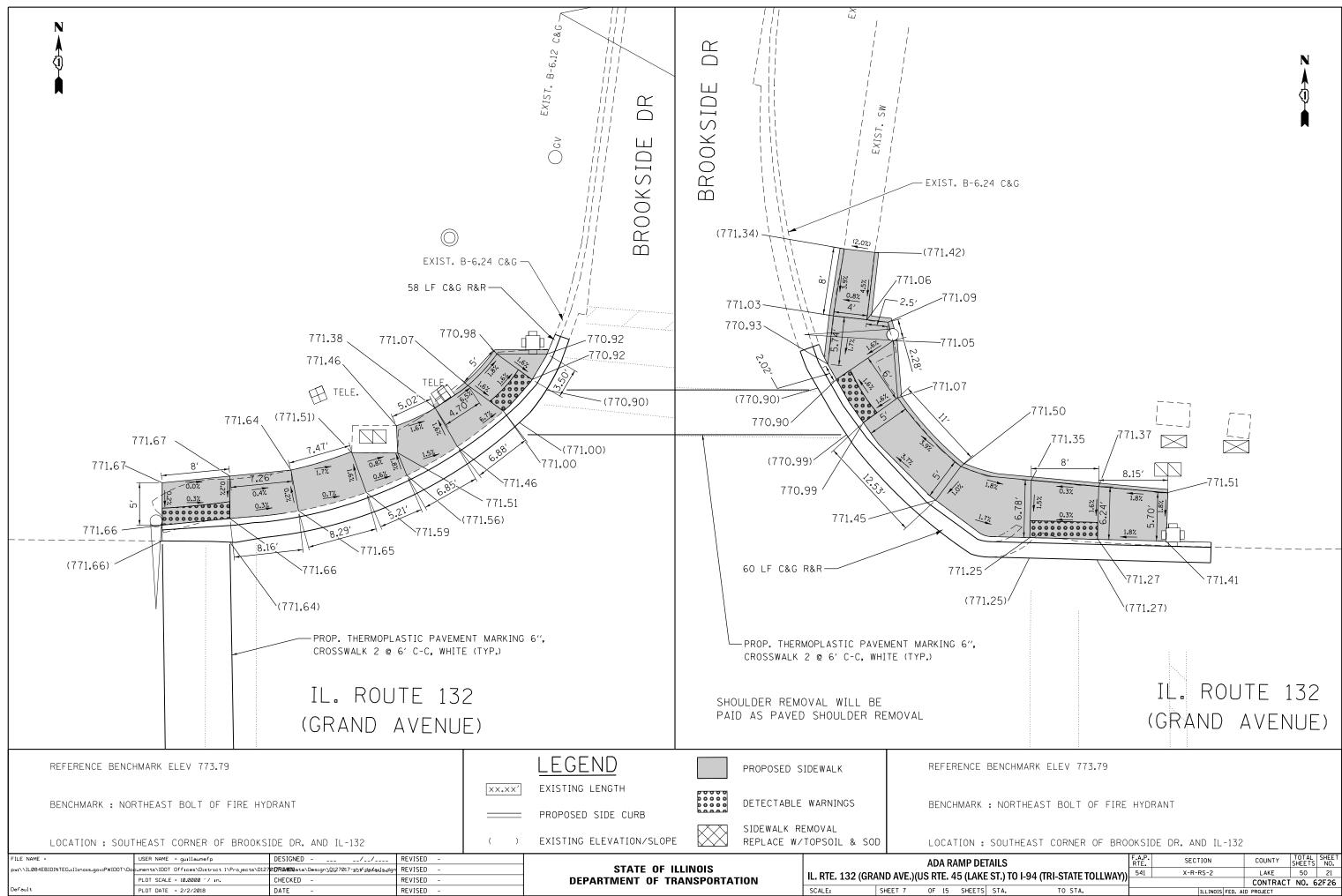




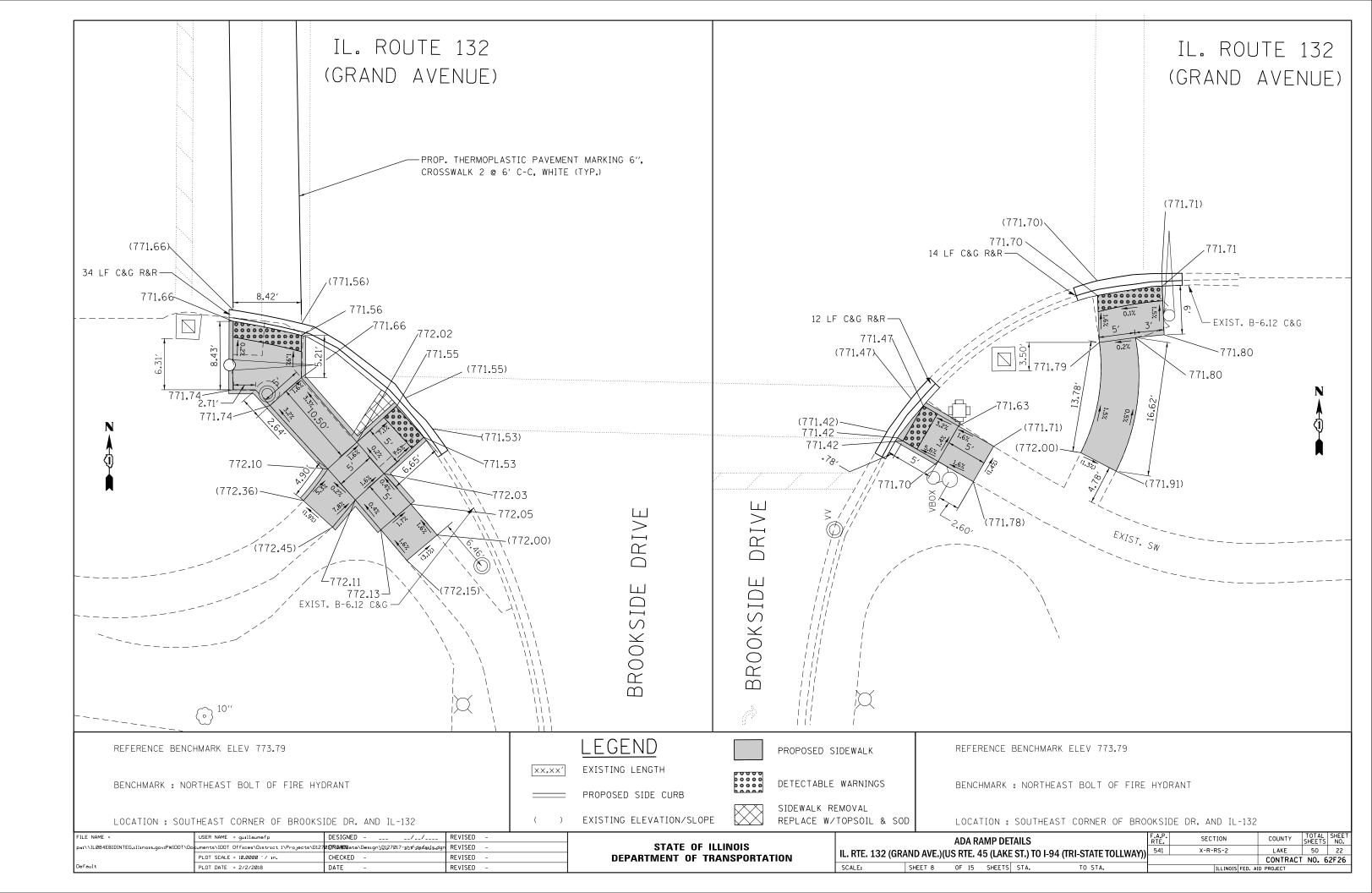
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TAILS	F.A.P. RTE.	SECTION	COUNTY	SHEETS	SHEET NO.
E ST.) TO I-94 (TRI-STATE TOLLWAY)	) 541	X-R-RS-2		50 S	19
	1		CONTRAC	I NU. 62	

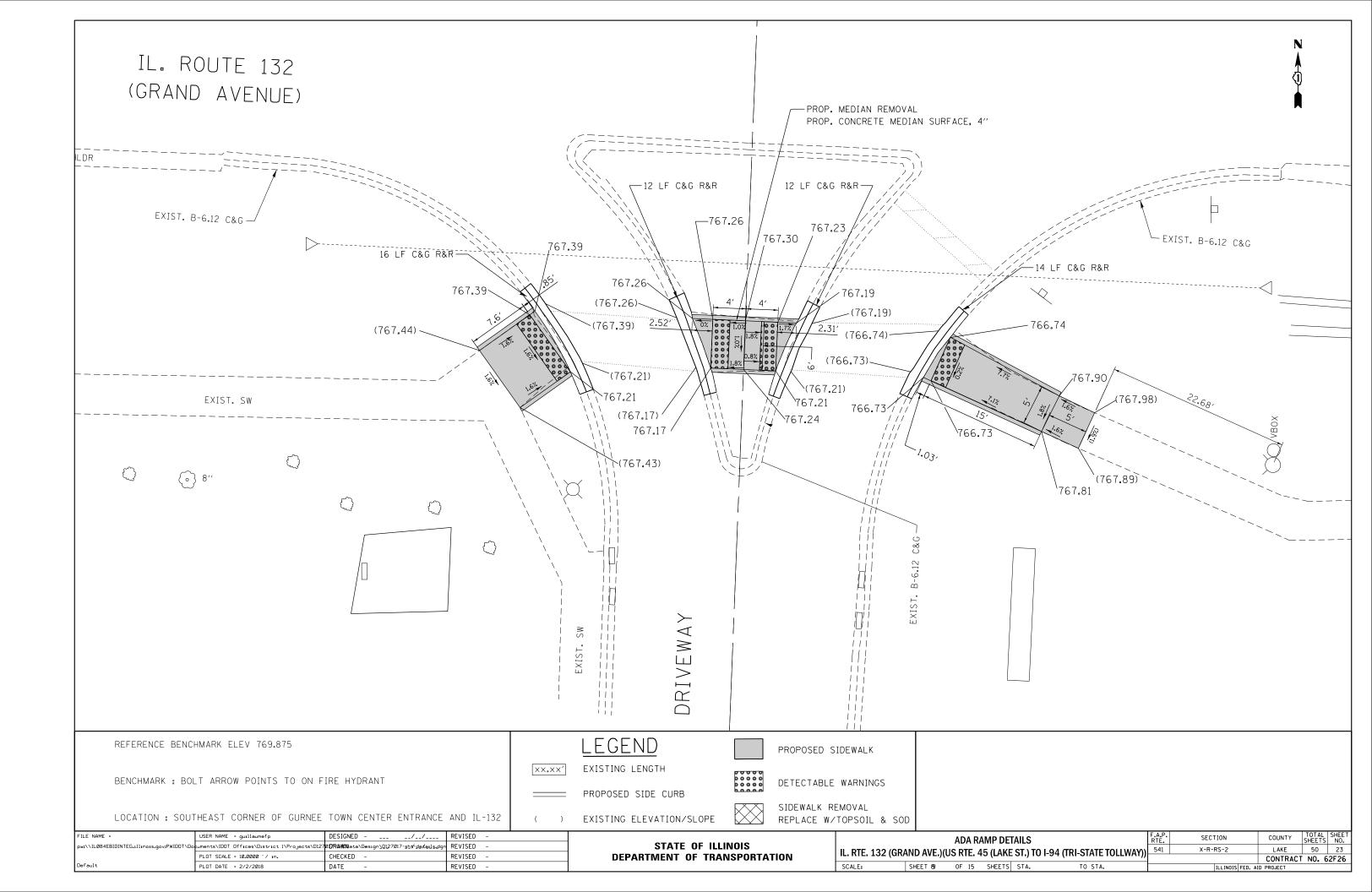


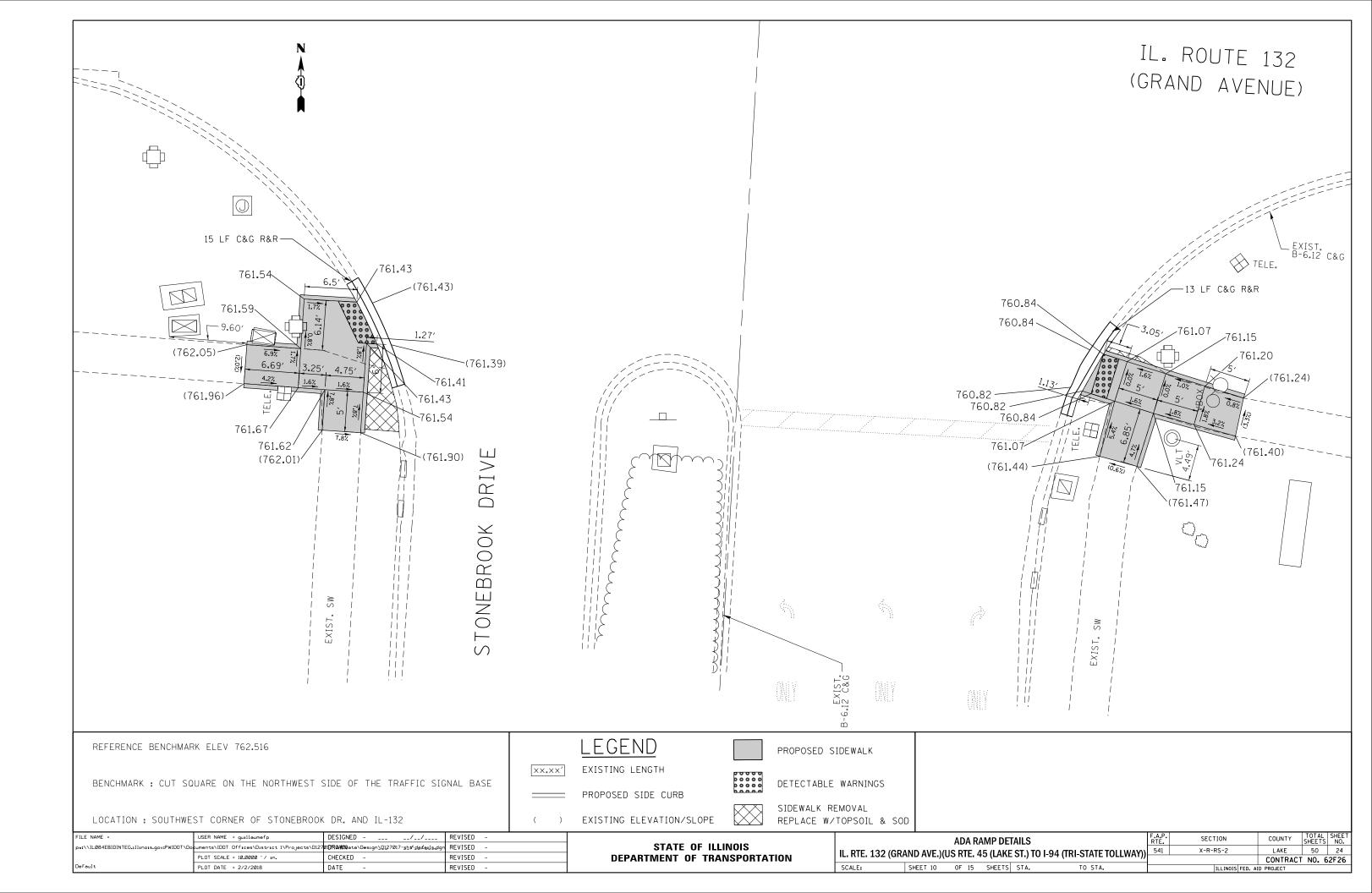


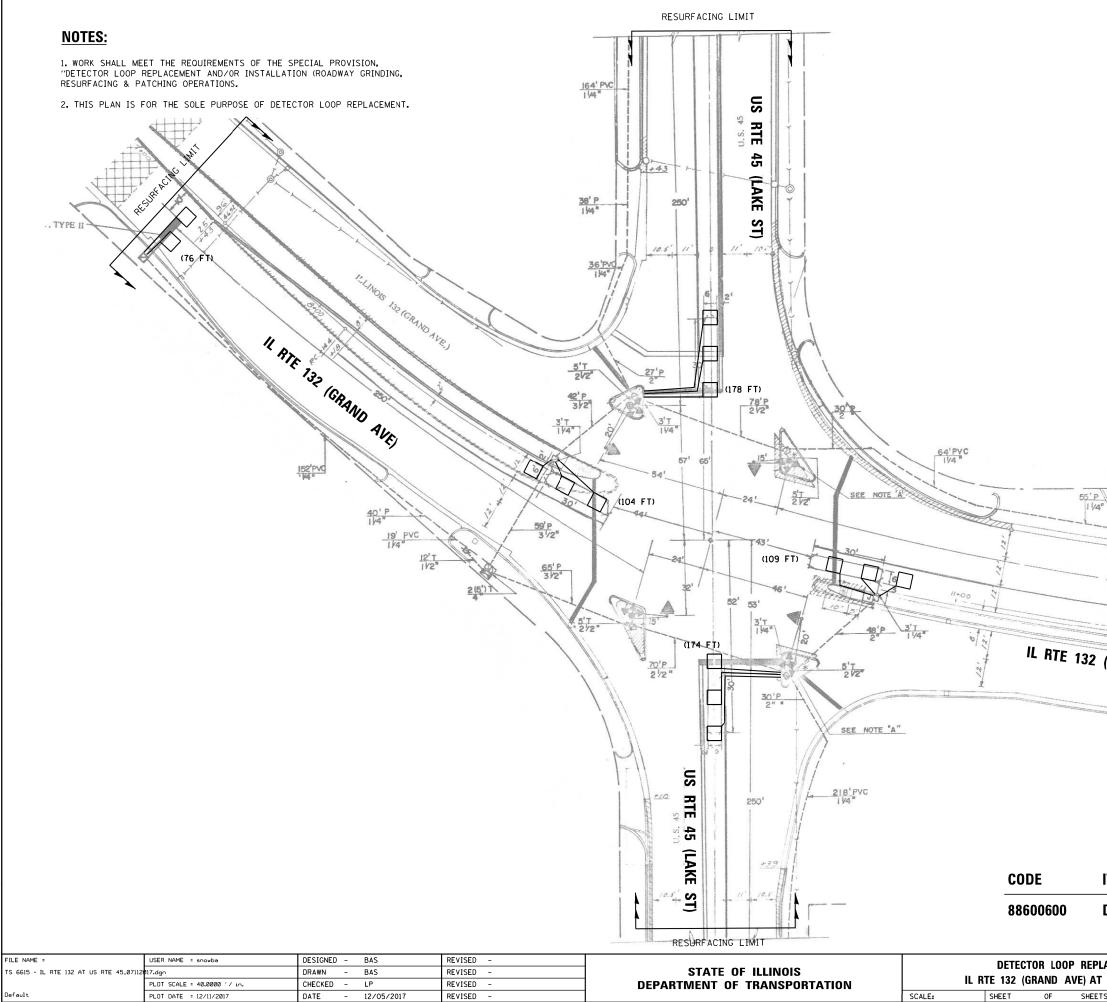


	(	IL. ROU Grand 4			
E BENCHMARK ELEV 773.79		: :			
<pre>K : NORTHEAST BOLT OF FIRE : SOUTHEAST CORNER OF BROW</pre>					
ETAILS	F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.
KE ST.) TO I-94 (TRI-STATE TOLLWAY))	541	X-R-RS-2	LAKE	50	21
TS STA. TO STA.		ILLINOIS FED. AI		NO. 6	2F26
		ILLINOIS FED. AI	S TROJECT		



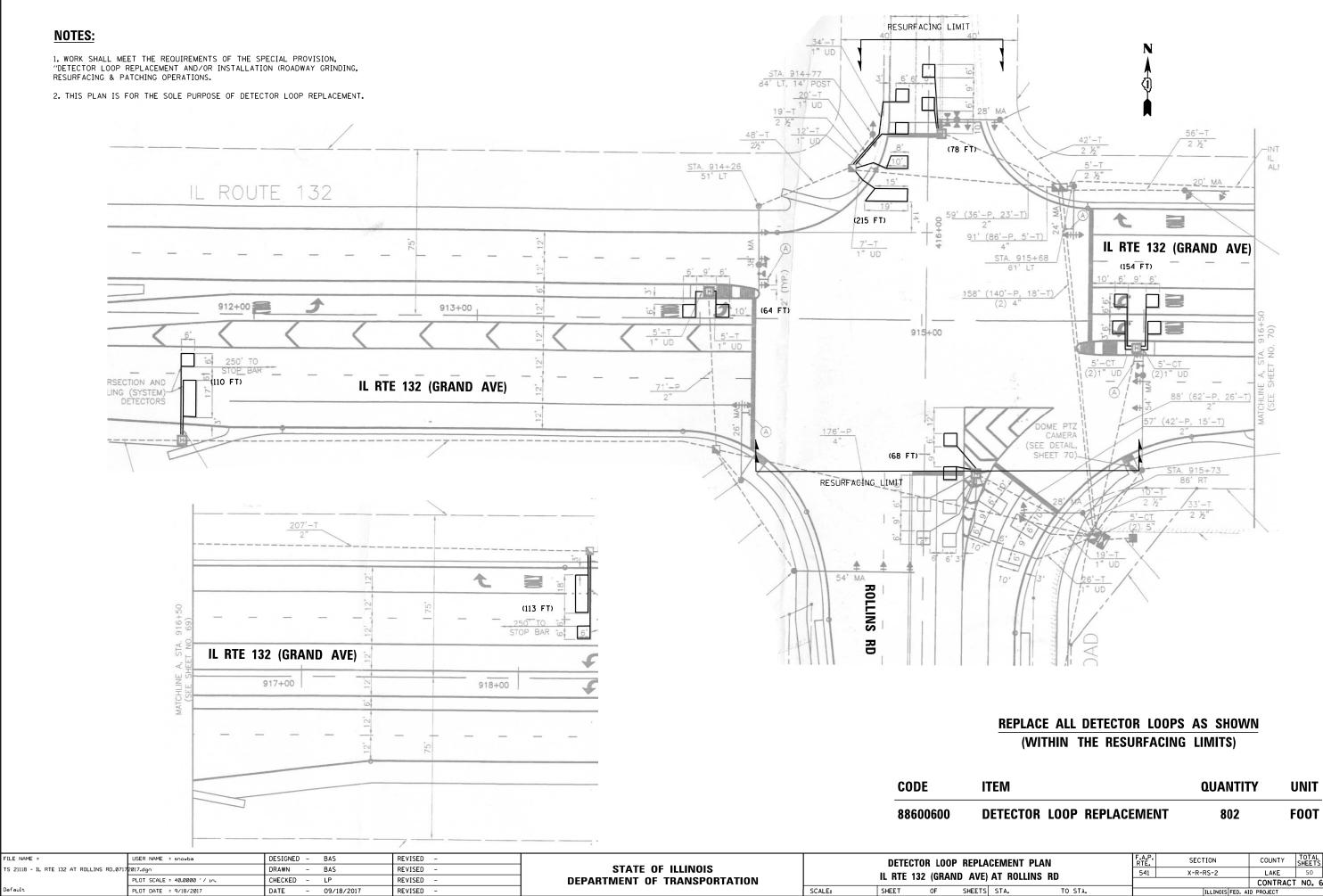




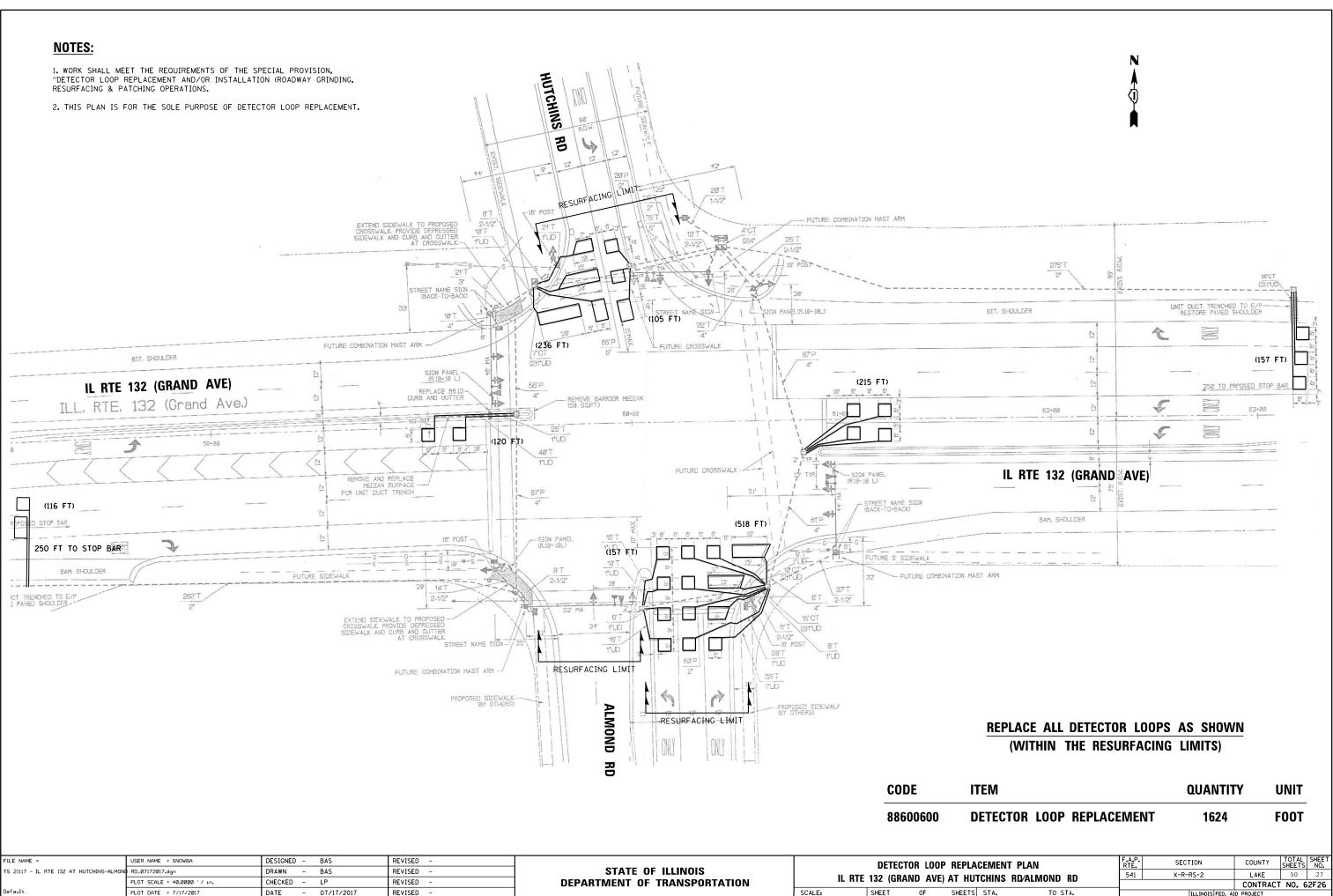


M	QUANT	ITY UNIT
REPLACE ALL DETECTOR L (WITHIN THE RESURF/		<u>vv N</u>
REPLACE ALL DETECTOR I	0005 VC 600	
ILLINOIS 132 (GRAND AVE.)		
RAND AVE)	<u>}</u>	13+00
12+00		30 FT. RACE WAY, TYP
0'	(80 FT)	9 FT. RACEWAY, TYPE
X1		1. (
106'PVC		
N		

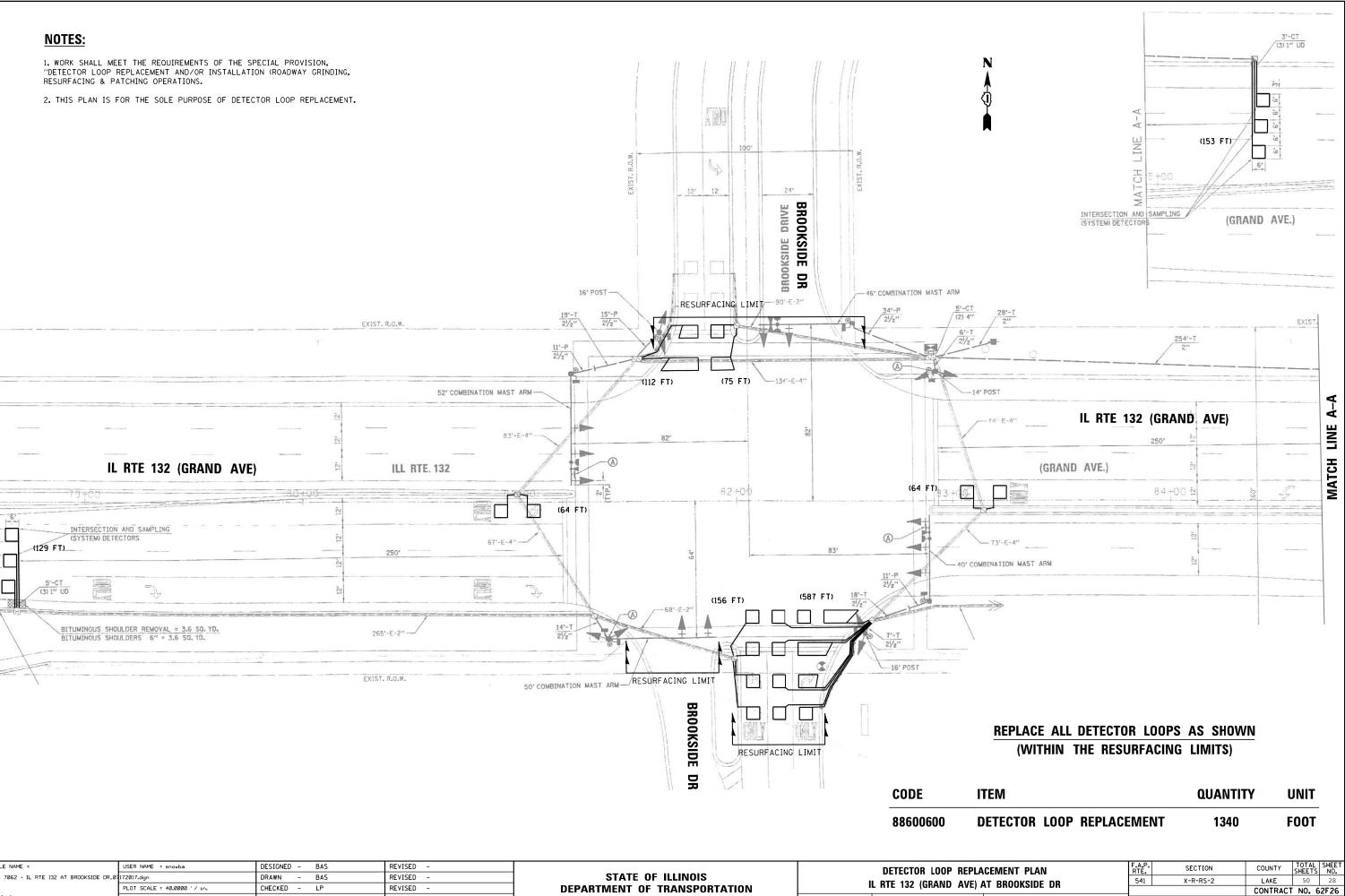
ACEMENT PLAN	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
US RTE 45 (LAKE ST)	541	X-R-RS-2	LAKE	50	25
· · · ·	_		CONTRACT	NO.6	2F26
S STA. TO STA.		ILLINOIS FED. A	ID PROJECT		



A	EMENT PLAN AT ROLLINS RD		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
=1	AT BOLLING BO	1	541	X-R-RS-2	LAKE	50	26
<u> </u>					CONTRACT	NO. 6	2F26
S	STA.	TO STA.		ILLINOIS FED. A	ID PROJECT		



OF SHEETS STA. TO STA.



FILE NAME =	USER NAME = snowba	DESIGNED -	BAS	REVISED -			DETECTO		P REPLAC
TS 7062 - IL RTE 132 AT BROOKSIDE DR_0	172017.dgn	DRAWN -	BAS	REVISED -	STATE OF ILLINOIS	1			
	PLOT SCALE = 40.0000 ' / 10.	CHECKED -	LP	REVISED -	DEPARTMENT OF TRANSPORTATION		IL RTE 132	(GRAND	D AVE) A
Default	PLOT DATE = 9/18/2017	DATE -	09/18/2017	REVISED -		SCALE:	SHEET	OF	SHEETS

			CONTINACT	110
STA.	TO STA.	ILLINOIS FED. AI	) PROJECT	

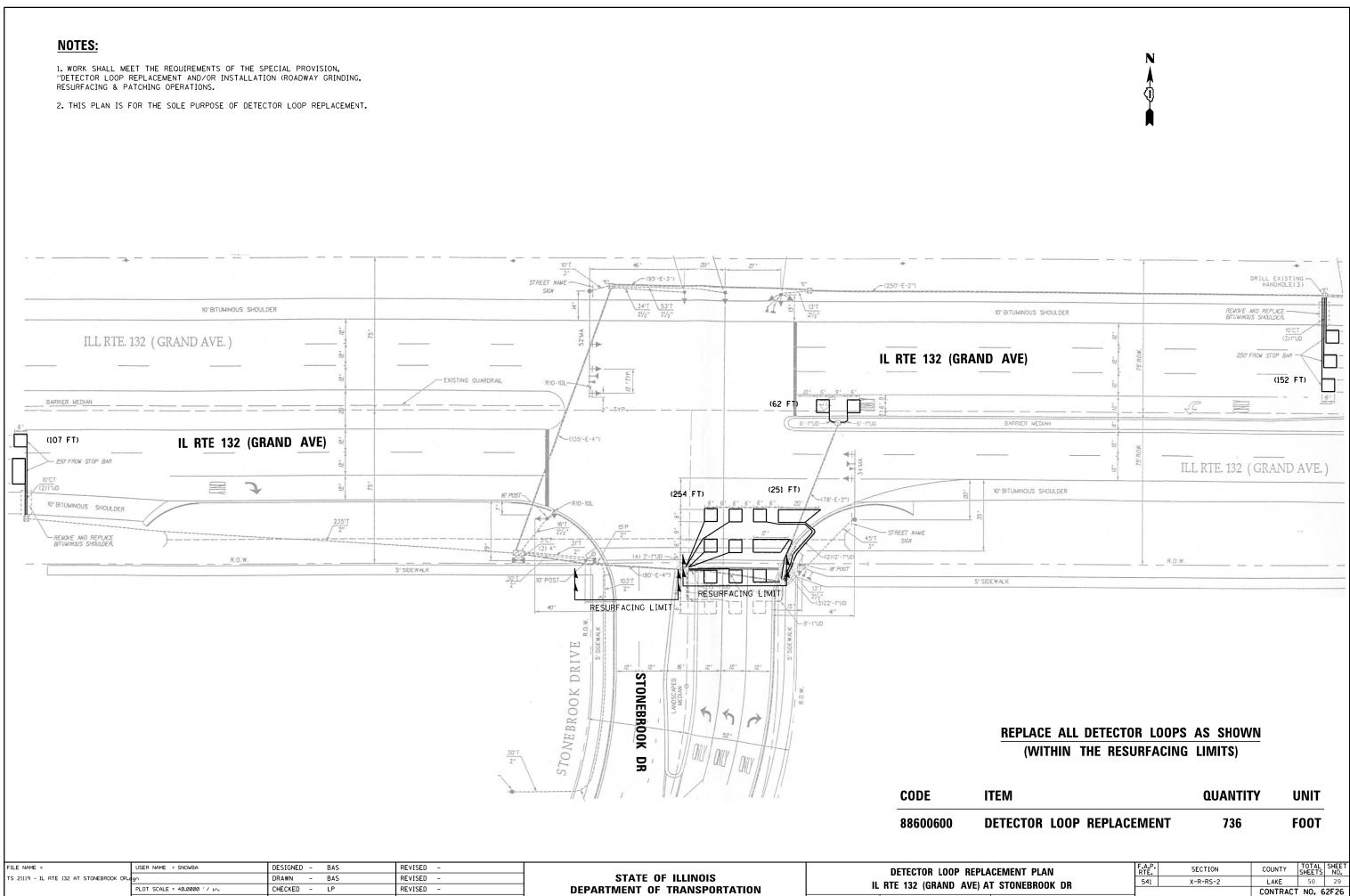
Default

DATE

- 07/17/2017

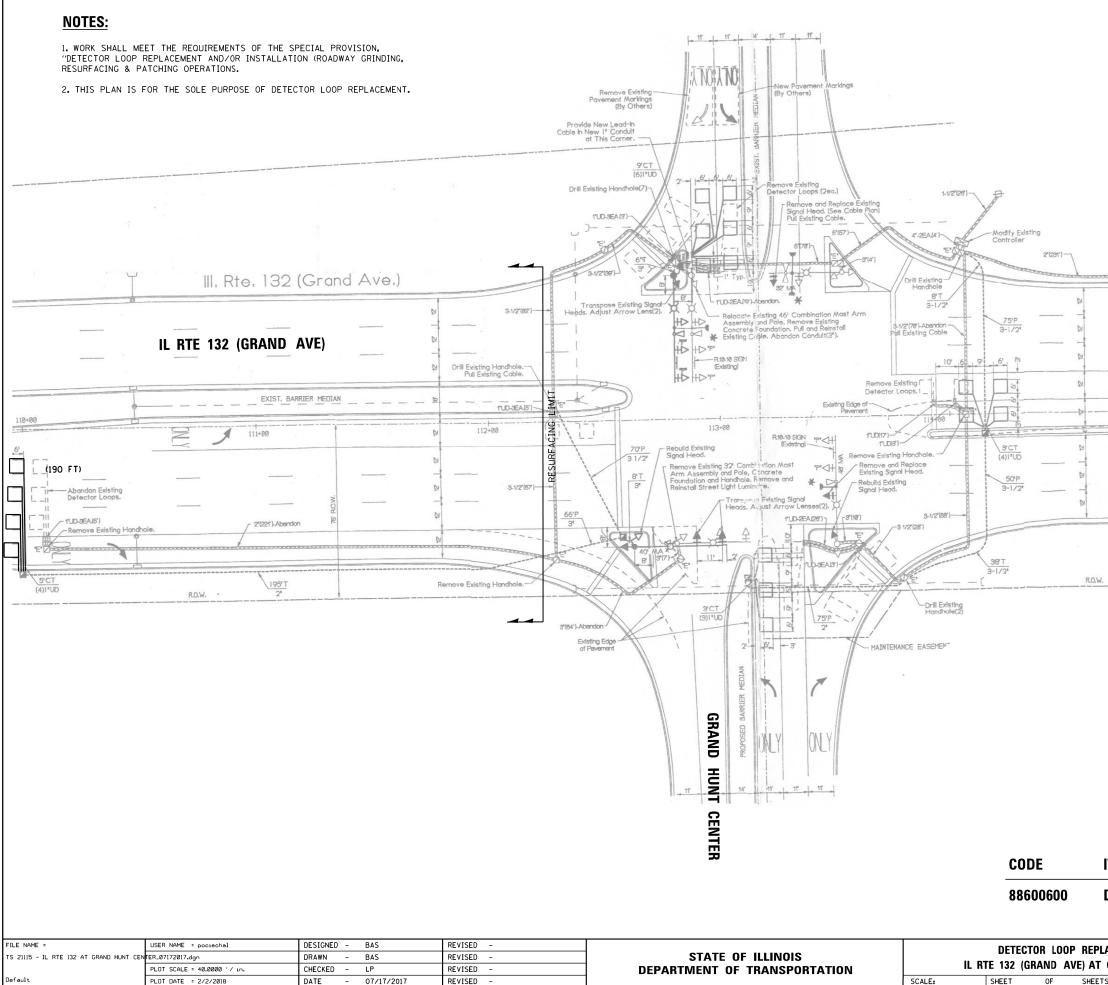
REVISED

PLOT DATE = 7/17/2017

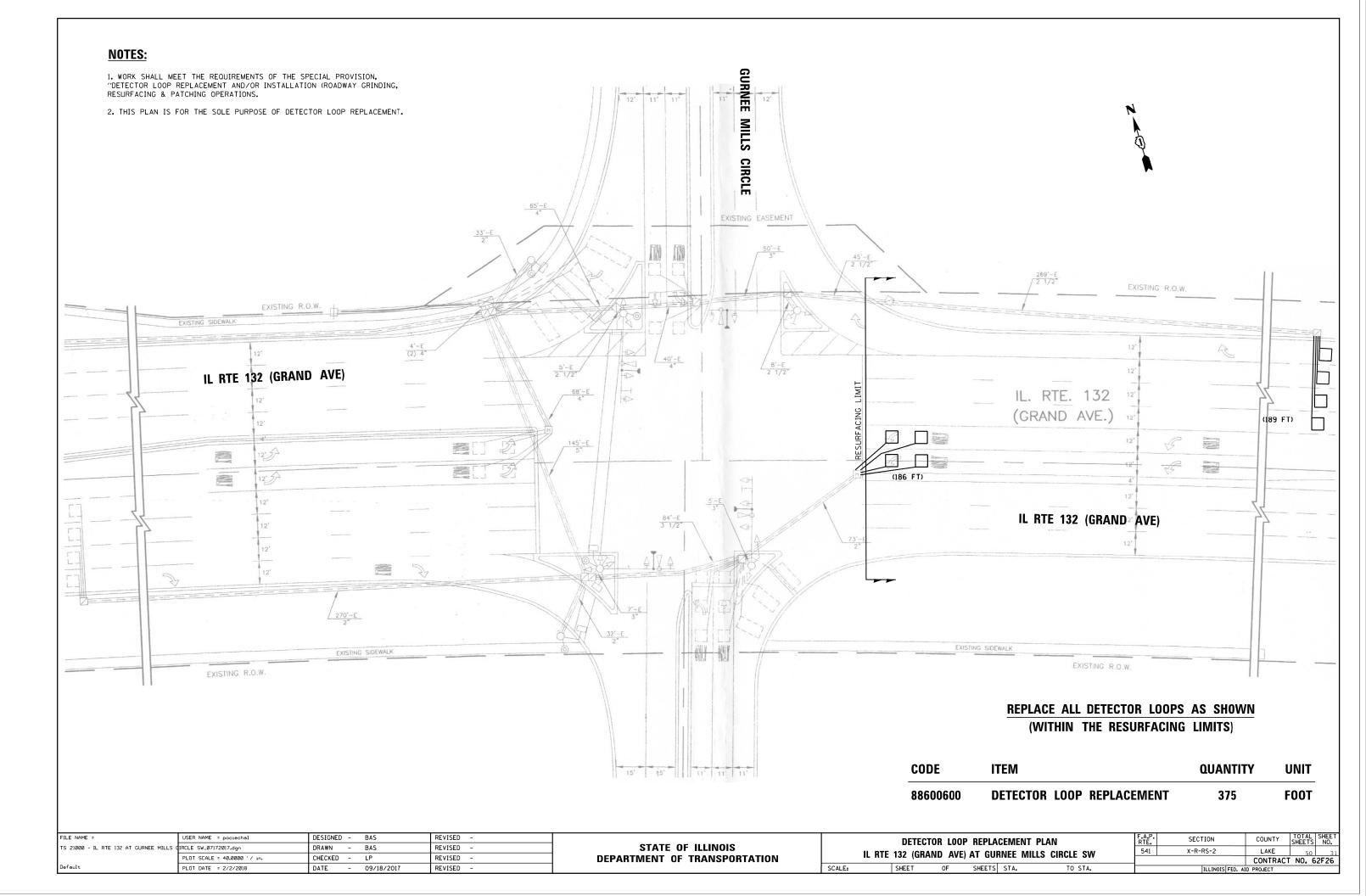


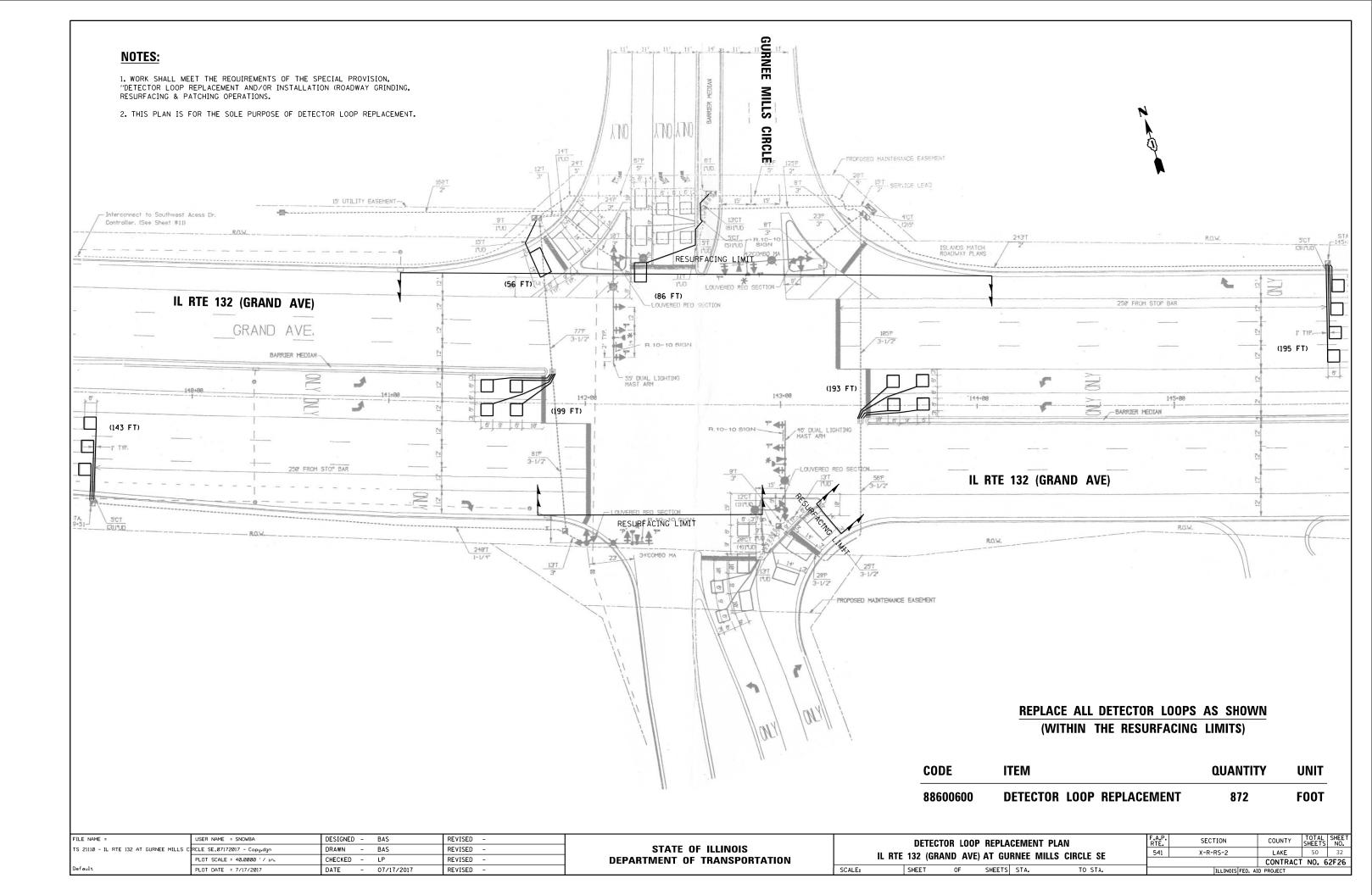
SCALE: SHEET

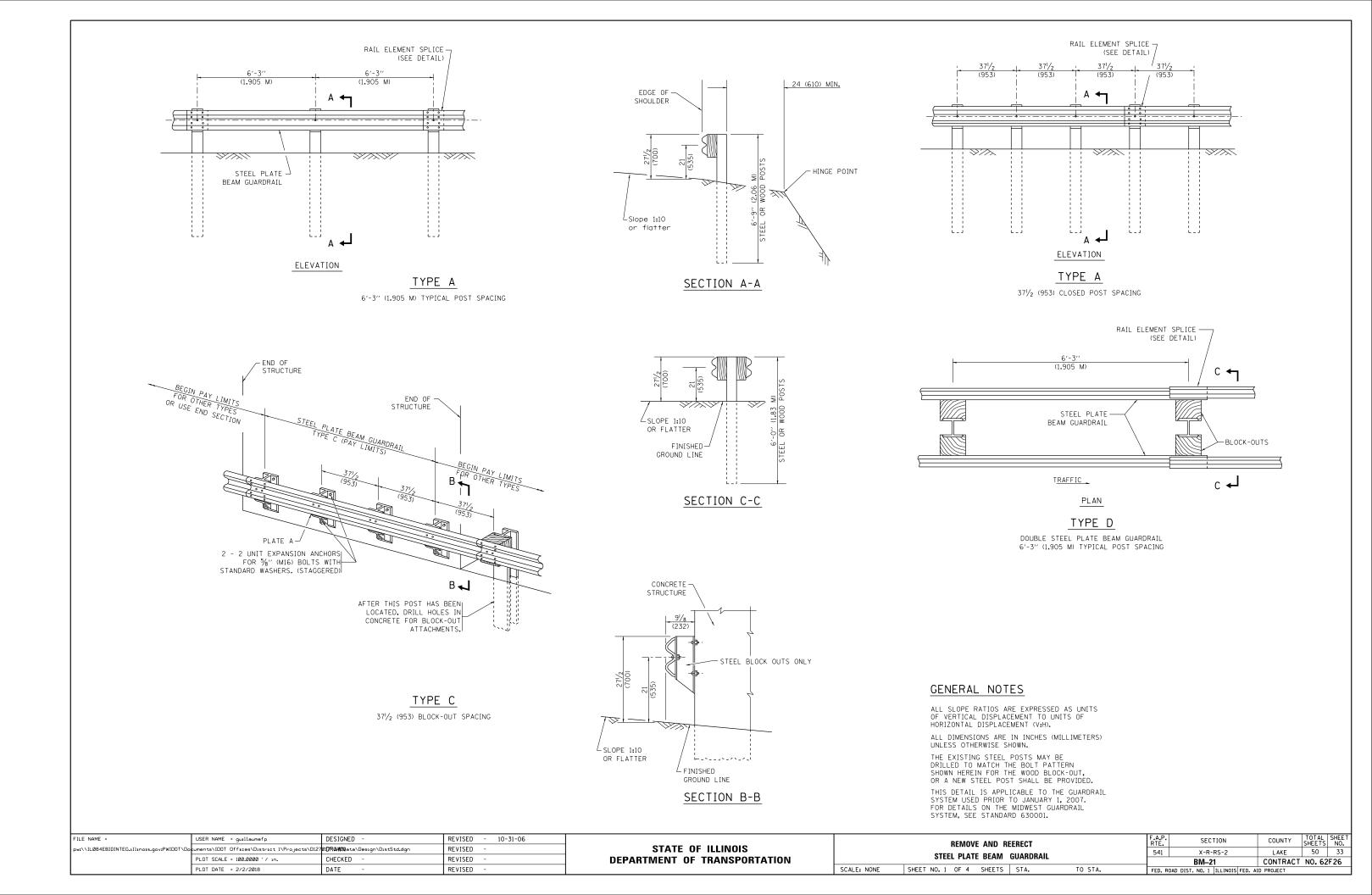
OF SHEETS STA. TO STA. ILLINOIS FED. AID PROJECT

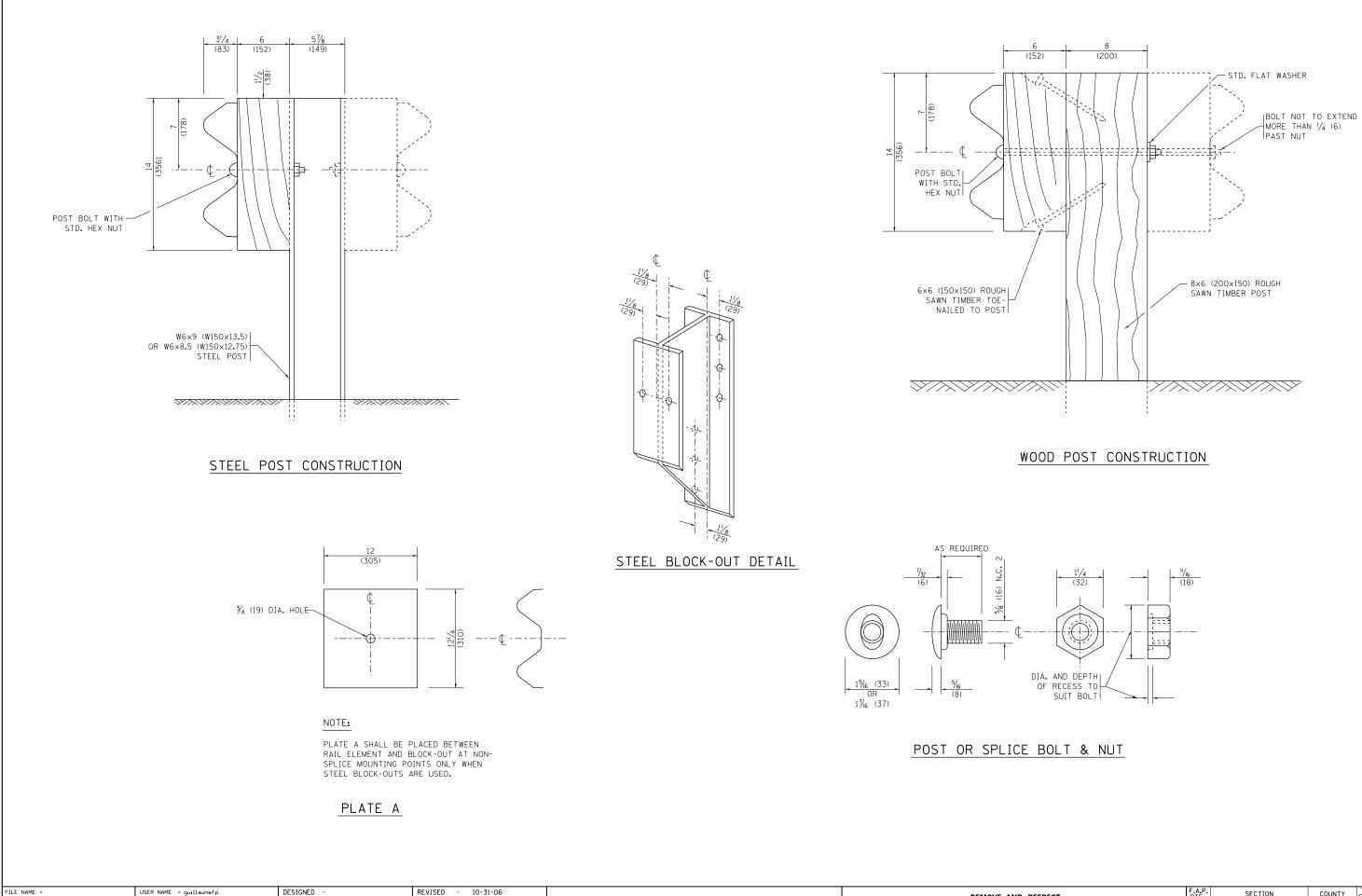


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		(Interconnect in	Hunt Club Rd. Contr	oller)-
		(TULAL CONNECT - C		'E'
			1"UD-3EA.(5")	
	-		- 552 SULTIN 1	
			ment Markings	
		>		<u>_</u> _
115+00		>		
		2	5	
PROPOSED BARRIER MEDIAN	1			
IL RTE 132 (GR/	AND AVE)			
REPLACE ALL DETE			<u>i</u>	
(WITHIN THE R	ESURFACIN	G LIMITS)	_	
EM		QUANTITY	( UNIT	
ETECTOR LOOP REPL	ACEMENT	190	FOOT	-
CEMENT PLAN	F.A.P. RTE.	SECTION	COUNTY TOTAL SHEETS	SHEE NO.
RAND HUNT CENTER	541	X-R-RS-2	LAKE 50	30
STA. TO STA.			PROJECT	<i>.</i> . r

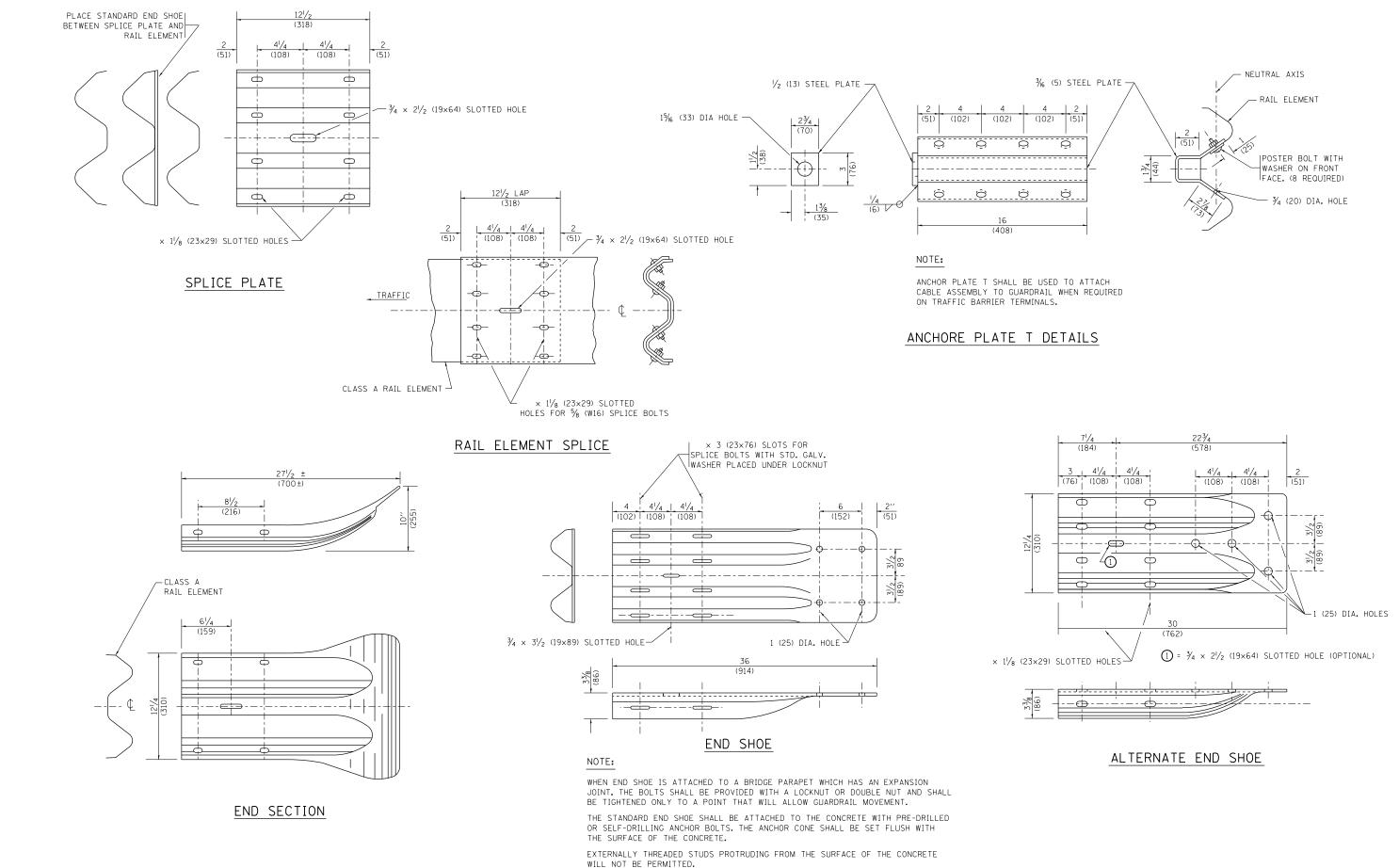




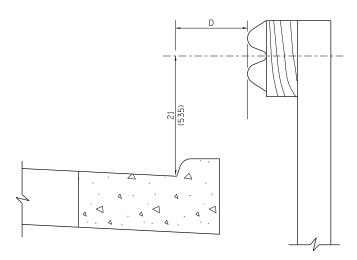




FILE NAME =	USER NAME = guillaumefp	DESIGNED -	REVISED - 10-31-06			REMOVE AND REERECT		F.A.P. RTE.	SECTION	COUNTY TO	OTAL SHEET HEETS NO.
pw:\\IL084EBIDINTEG.1llinois.gov:PWIDOT\Do	cuments\IDOT_Offices\District_l\Projects\[	1270107RGANDOata\Design\DistStd.dgn	REVISED -	STATE OF ILLINOIS	STEEL PLATE BEAM GUARDRAIL			50 34			
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		SIEEL PLATE BEAW GUARDRAIL			BM-21	CONTRACT N	NO. 62F26
	PLOT DATE = 2/2/2018	DATE -	REVISED -		SCALE: NONE	SHEET NO. 2 OF 4 SHEETS STA. TO	D STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED.	AID PROJECT	



Ī	FILE NAME =	USER NAME = guillaumefp	DESIGNED -	REVISED - 10-31-06			REMOVE AND RE	FRECT		F.A.P.	SECTION	COUNTY	TOTAL SHEET
	pw:\\IL084EBIDINTEG.111:nois.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D12	0 <b>1)R04019</b> ata\Design\DistStd.dgn	REVISED -	STATE OF ILLINOIS					541	X-R-RS-2	LAKE	50 35
		PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	STEEL PLATE BEAM GUARDRAIL			BM–21	CONTRACT	T NO. 62F26		
L		PLOT DATE = 2/2/2018	DATE -	REVISED -		SCALE: NONE	SHEET NO. 3 OF 4 SHEETS	STA.	TO STA.	FED. ROAD DI	ST. NO. 1 ILLINOIS FED.	AID PROJECT	



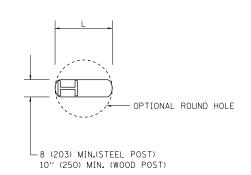
IF IT IS NECESSARY FOR D TO BE MORE THAN 12 (300) AND LESS THAN 10'-O" (3.0 M) TYPE M-2 (M-5) CURB AND GUTTER

(STD. 606001) SHALL BE USED IN FRONT OF AND IN ADVANCE

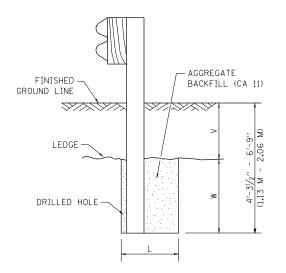
GUARDRAIL PLACED BEHIND CURB (D = 0 DESIRABLE TO 12 (300) MAXIMUM)

NOTE:

OF THE GUARDRAIL.







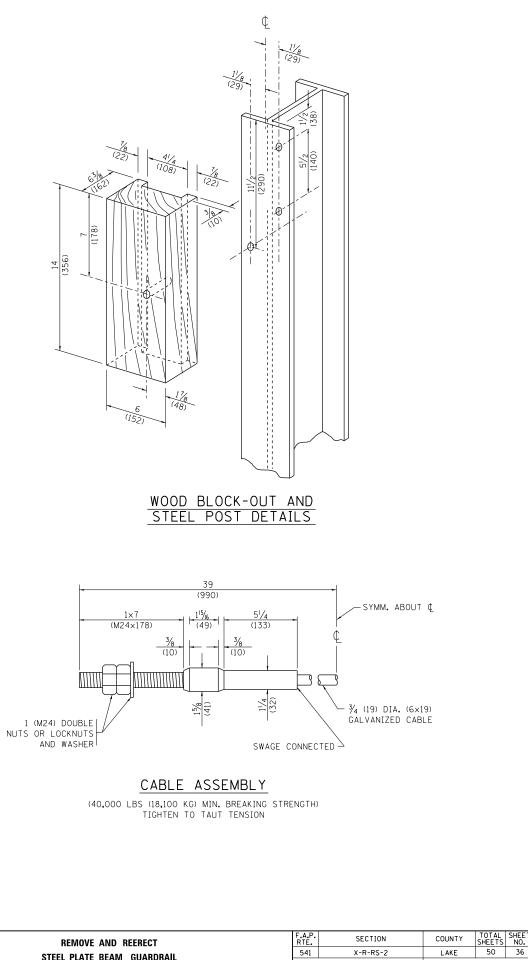
#### NOTE:

LEDGE LINE IS TOP OF ROCK LEDGE OR HARD SLAG FILL.

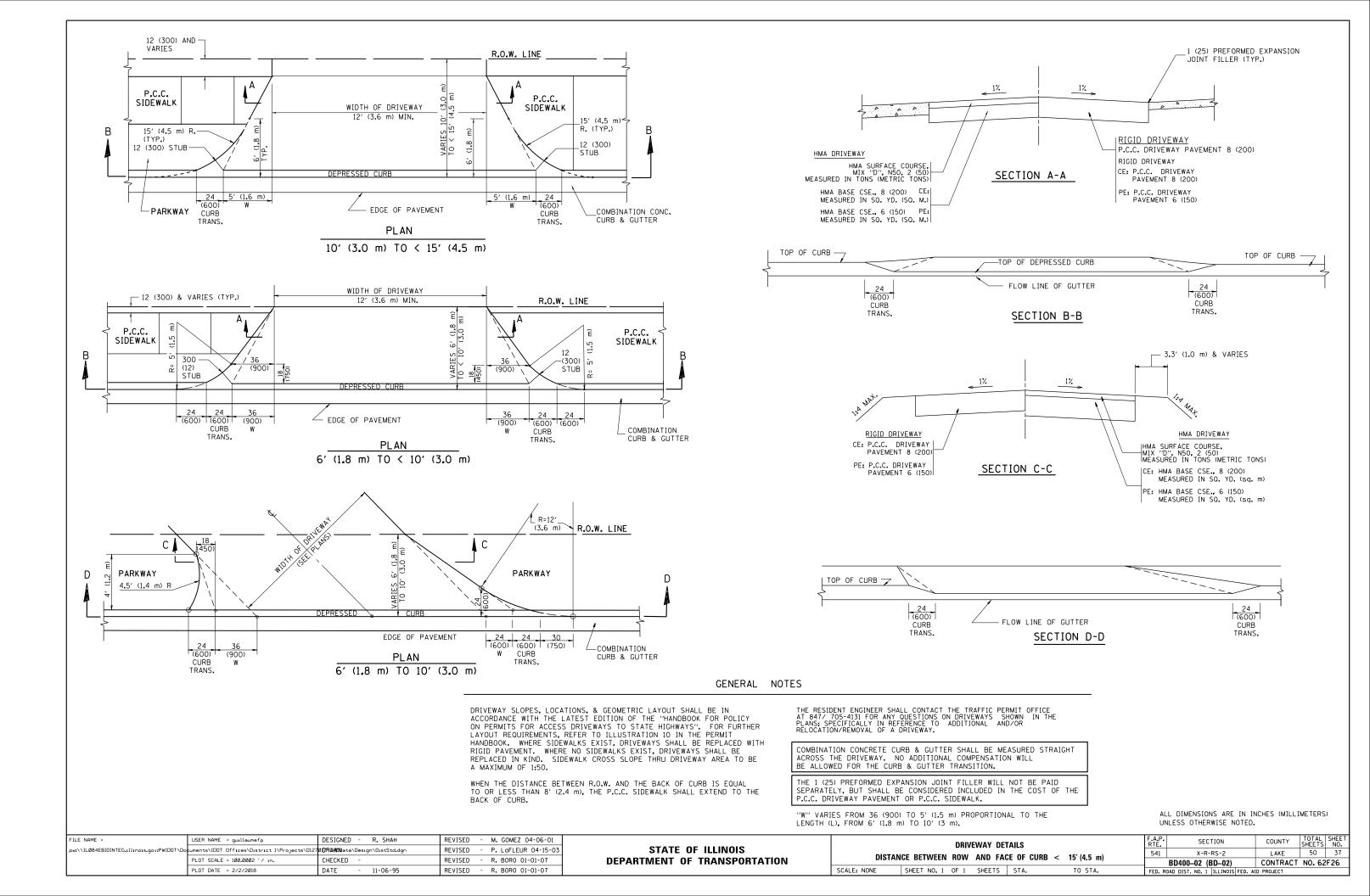
## ELEVATION

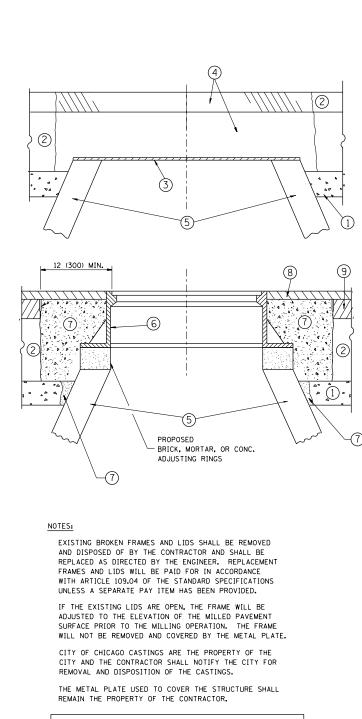
## FOOTING FOR POST WHEN IMPERVIOUS MATERIAL IS ENCOUNTERED

V	w	L			
V	VY	STEEL POST	WOOD POST		
0 - 18	24	21	23		
(0 - 460)	(610)	(530)	(580)		
>18 - 41.5	12	8	10		
(> 460 - 825)	(305)	(203)	(250)		
>41.5 - 53.5	12 - 0	8	10		
(> 825 - 1.13 M)	(350 - 0)	(203)	(250)		



FILE NAME =	USER NAME = guillaumefp	DESIGNED -	REVISED - 10-31-06			REMOVE AND REERECT	F.A.P. SECTION	COUNTY TOTAL SHEET
pw://IL084EBIDINTEG.1111nois.gov:PWIDOT/Documents/IDOT Offices/District 1/Projects/D12		0 <b>DRGAWIN</b> ata\Design\DistStd.dgn	REVISED -	STATE OF ILLINOIS	STEEL PLATE BEAM GUARDRAIL		541 X-R-RS-2	LAKE 50 36
	PLOT SCALE = 100.0000 ' / 10. CHECKED -		REVISED -	DEPARTMENT OF TRANSPORTATION			BM-21	CONTRACT NO. 62F26
	PLOT DATE = 2/2/2018	DATE -	REVISED -		SCALE: NONE	SHEET NO. 4 OF 4 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. A	ID PROJECT





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

FILE NAME =	USER NAME = guillaumefp	DESIGNED - R. SHAH	REVISED -	R. WIEDEMAN 05-14-04				DETAILS			F.A.P.	SECTION	COUNTY	TOTAL SHEET
pw:\\ILØ84EBIDINTEG.1111no1s.gov:PWIDOT\0	cuments\IDOT_Offices\District_1\Projects\D127	01)7RGMUNata\Design\DistStd.dgn	REVISED -	R. BORO 01-01-07	STATE OF ILLINOIS						541	X-R-RS-2	LAKE	50 38
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	R. BORO 03-09-11	DEPARTMENT OF TRANSPORTATION		FRAMES AND LI	DS ADJUS	IMENI WII	H MILLING		BD600-03 (BD-8)	CONTRAC'	T NO. 62F26
	PLOT DATE = 2/2/2018	DATE - 10-25-94	REVISED -	R. BORO 12-06-11		SCALE: NONE	SHEET NO. 1 OF	1 SHEETS	S STA.	TO STA.		AD DIST. NO. 1 ILLINOIS FED.		

## 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  $1^{\prime}_{2}$  (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	6 FRAME AND LID (SEE NOTES)
2	EXISTING PAVEMENT	(7) CLASS PP-1* CONCRETE
3	36 (900) DIAMETER METAL PLATE	(8) PROPOSED HMA SURFACE COURSE
4	PROPOSED CRUSHED STONE AND HMA SURFACE MIX	-
(5)	EXISTING STRUCTURE	9 PROPOSED HMA BINDER COURSE

(5) EXISTING STRUCTURE

### 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.

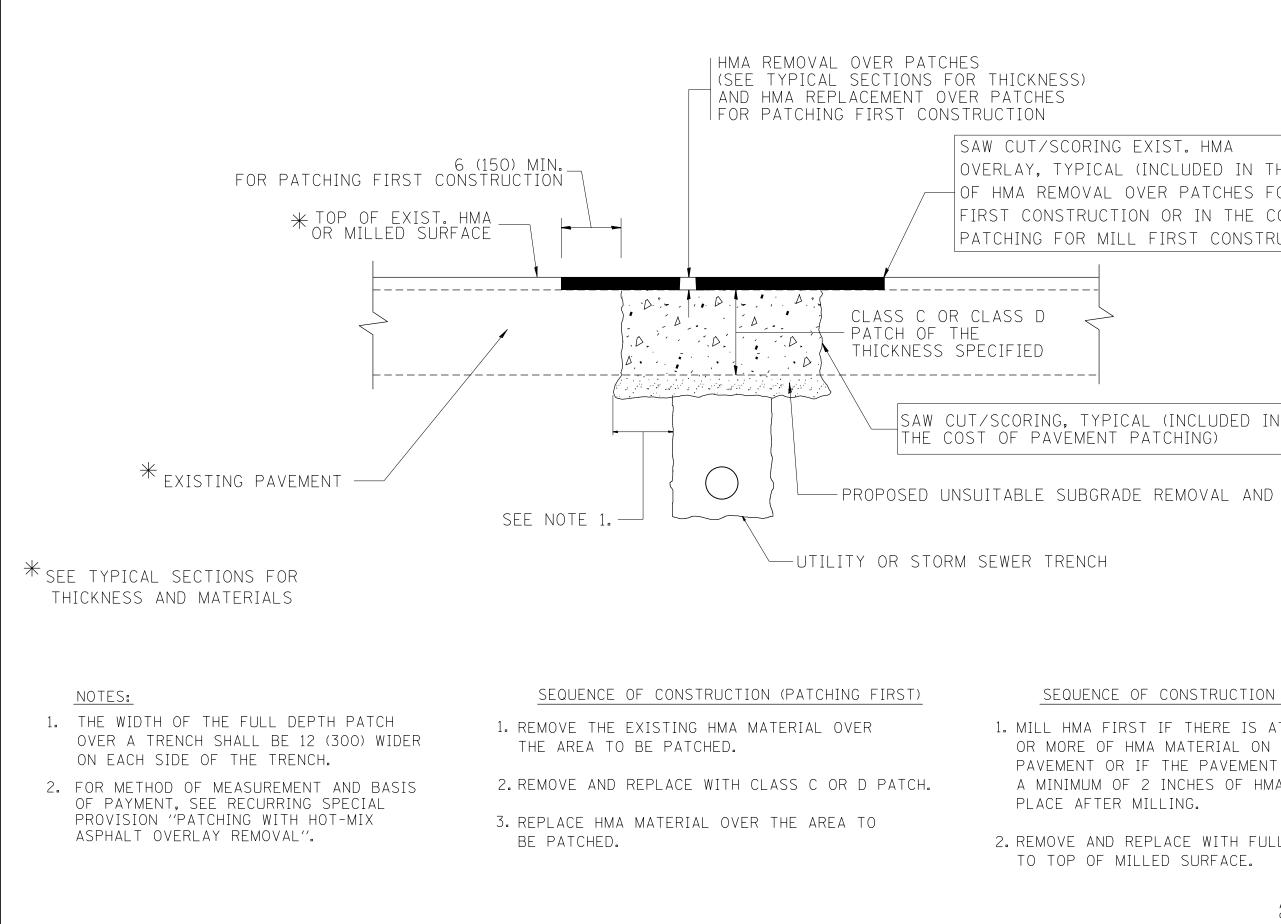
## BASIS OF PAYMENT:

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.

ALL DIMENSIONS A	ARE IN INCHES	(MILLIMETERS) UNLESS	OTHERWISE SHOWN
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FILE NAME =	USER NAME = guillaumefp	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98			PAVEMENT PATCHING FOR		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
pw://IL084EBIDINTEG.1111no15.c		D1270107RGANINata\Design\DistStd.dgn	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION		HMA SURFACED PAVEMENT			X-R-RS-2	LAKE	50 39
	PLOT SCALE = 100.0000 ' / 10. PLOT DATE = 2/2/2018	CHECKED -	REVISED - R. BORO 09-04-07 REVISED - K. ENG 10-27-08			SHEET NO. 1 OF 1 SHEETS STA		BD	400-04 (BD-22)		T NO. 62F26
	FLUI DHIE - 2/2/2018	DATE - 10-25-94	REVISED - K. ENG 10-21-08		SCALE: NONE	SHEET NO. I OF I SHEETS STA.	TU STA.	FED. ROAD	DIST. NO. 1  ILLINOIS FED.	AID PROJECT	

OVERLAY, TYPICAL (INCLUDED IN THE COST OF HMA REMOVAL OVER PATCHES FOR PATCHING FIRST CONSTRUCTION OR IN THE COST OF PAVEMENT PATCHING FOR MILL FIRST CONSTRUCTION).

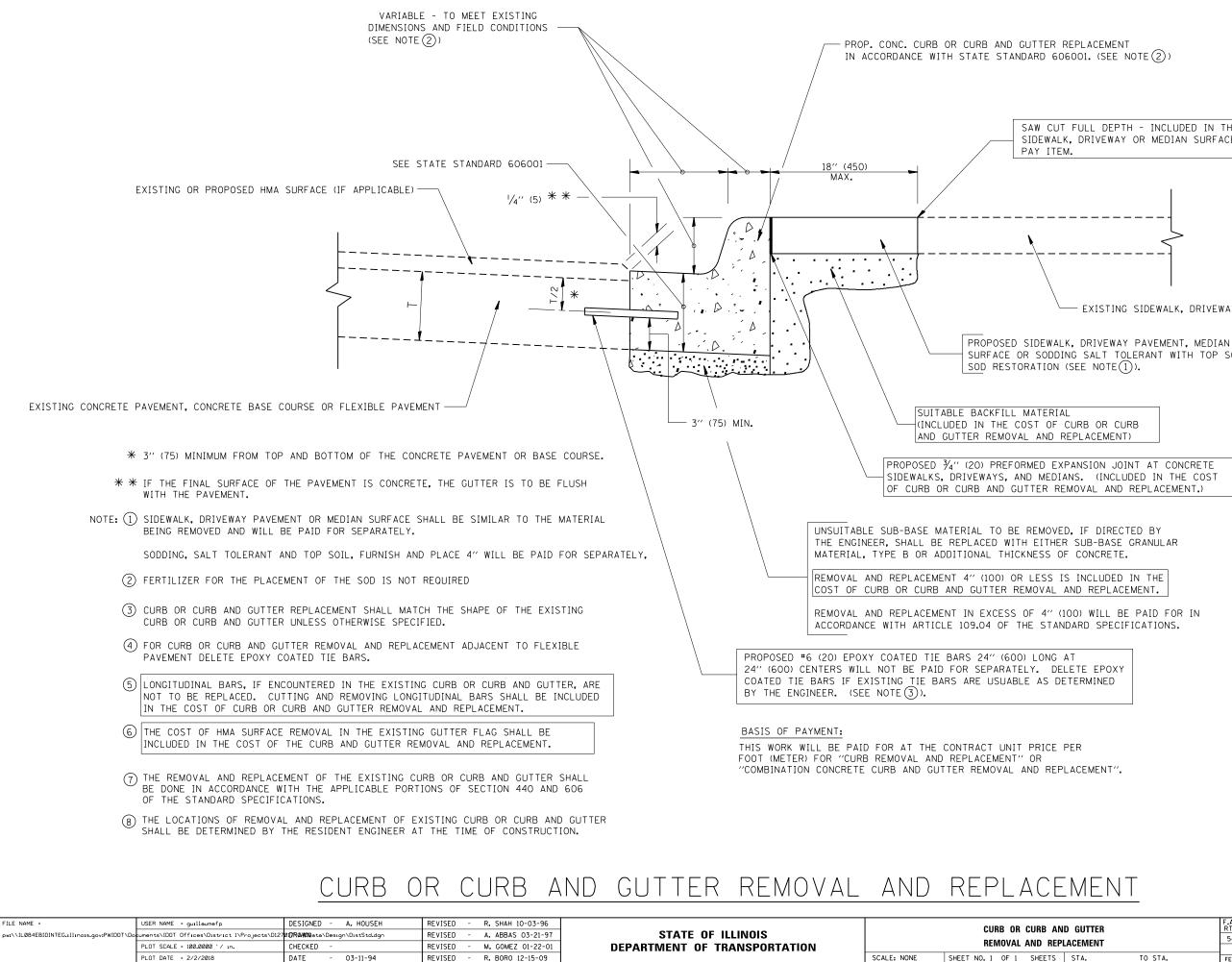
PROPOSED UNSUITABLE SUBGRADE REMOVAL AND REPLACEMENT

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST  $4\frac{1}{2}$  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

2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

		DIMENSIONS ARE IN INCHES RWISE SHOWN.	(MILLIMETERS	) UNLES	s
NG FOR	F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
VEMENT	541	X-R-RS-2	LAKE	50	39



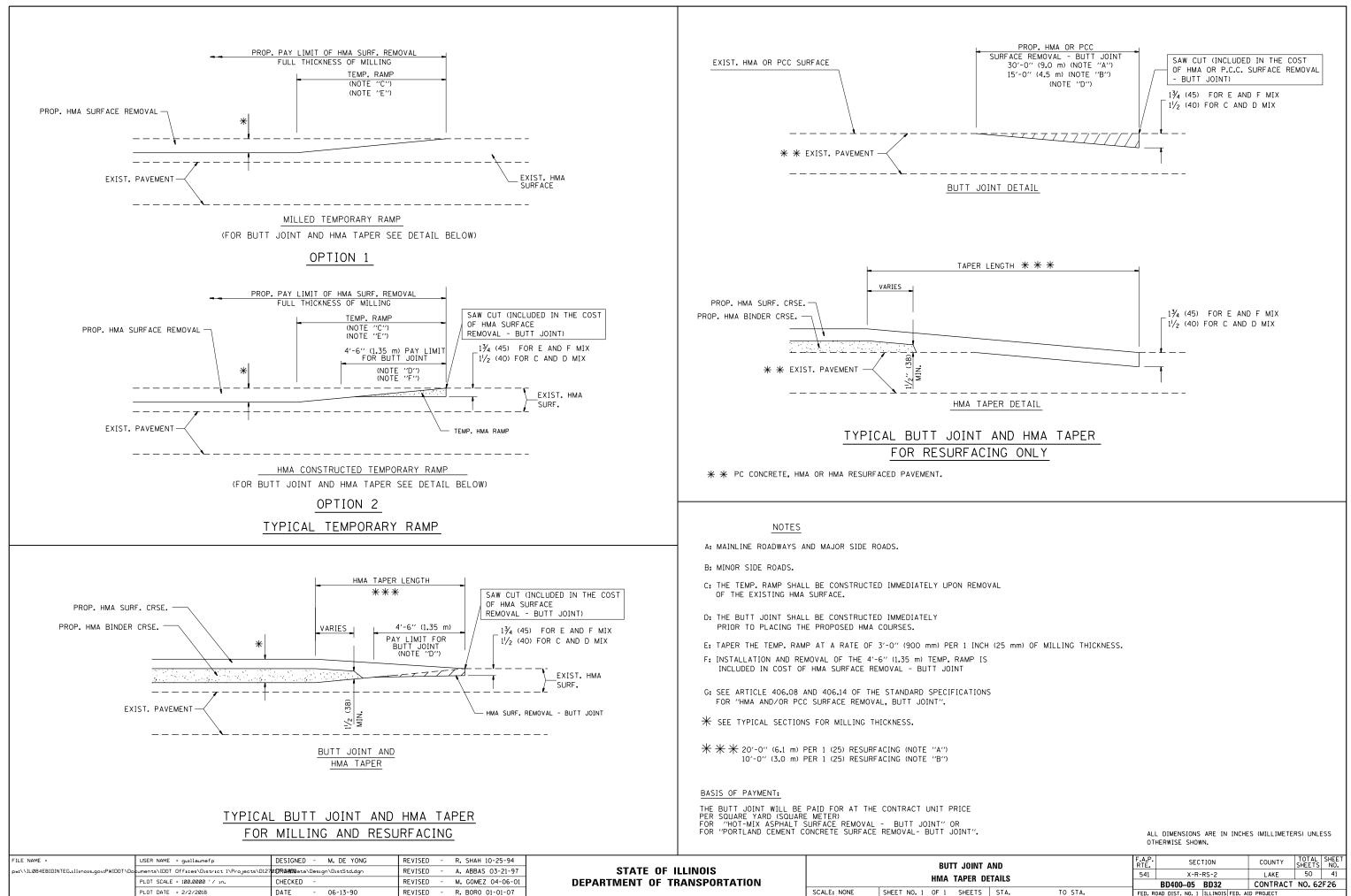
SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE, SOD OR GROUND.

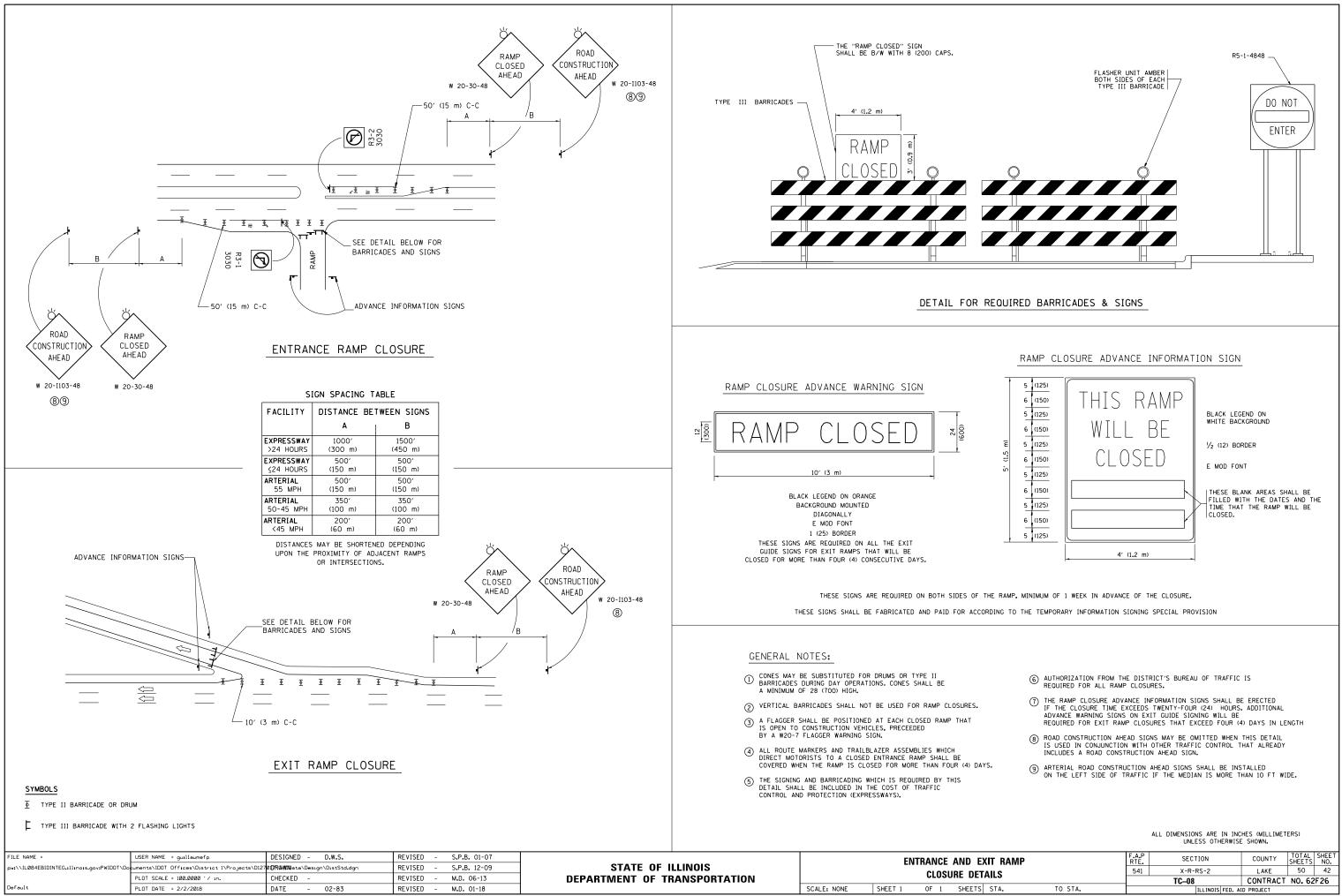
SURFACE OR SODDING SALT TOLERANT WITH TOP SOIL, 4" (100)

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

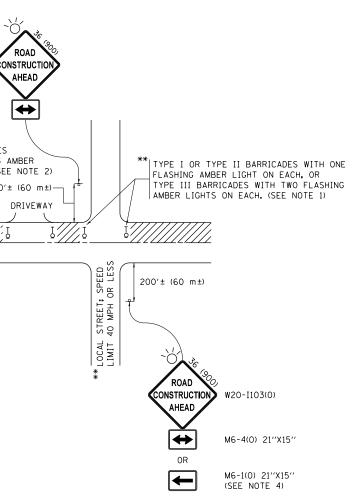
ND GUTTER		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
PLACEMENT				X-R-RS-2	LAKE	50	40
	PLACEMENT			BD600-06 (BD-24)	CONTRACT	NO. 62	F26
;	STA.	TO STA.	FED. R	DAD DIST. NO. 1 ILLINOIS FED. A	D PROJECT		

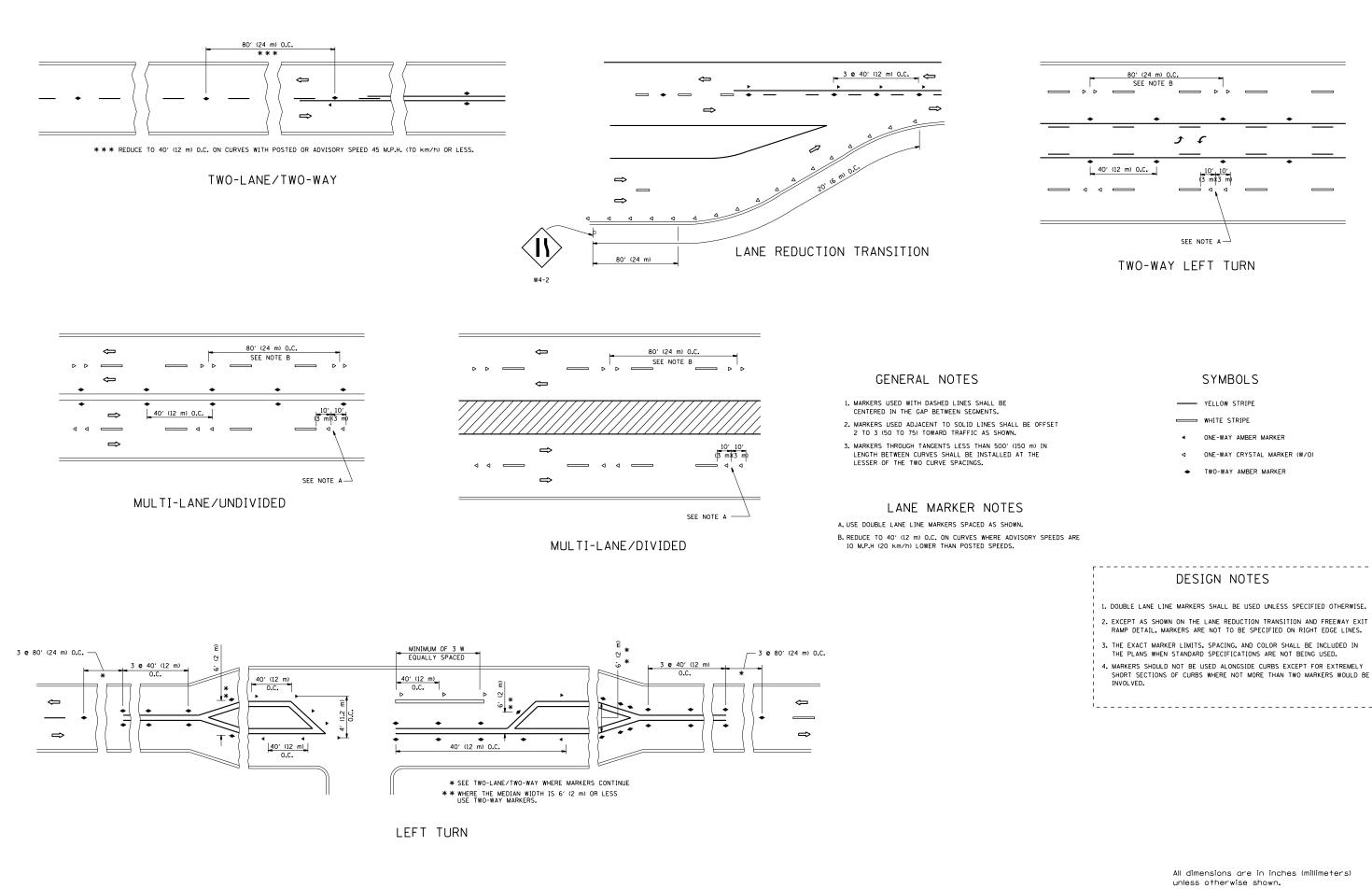


AND				F.A.P. SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
ה	TAILS		541	X-R-	RS-2		LAKE	50	41
76	TAILS		_	BD400-05	BD32		CONTRACT	NO. 62	F26
	STA.	TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS	FED. A	D PROJECT		



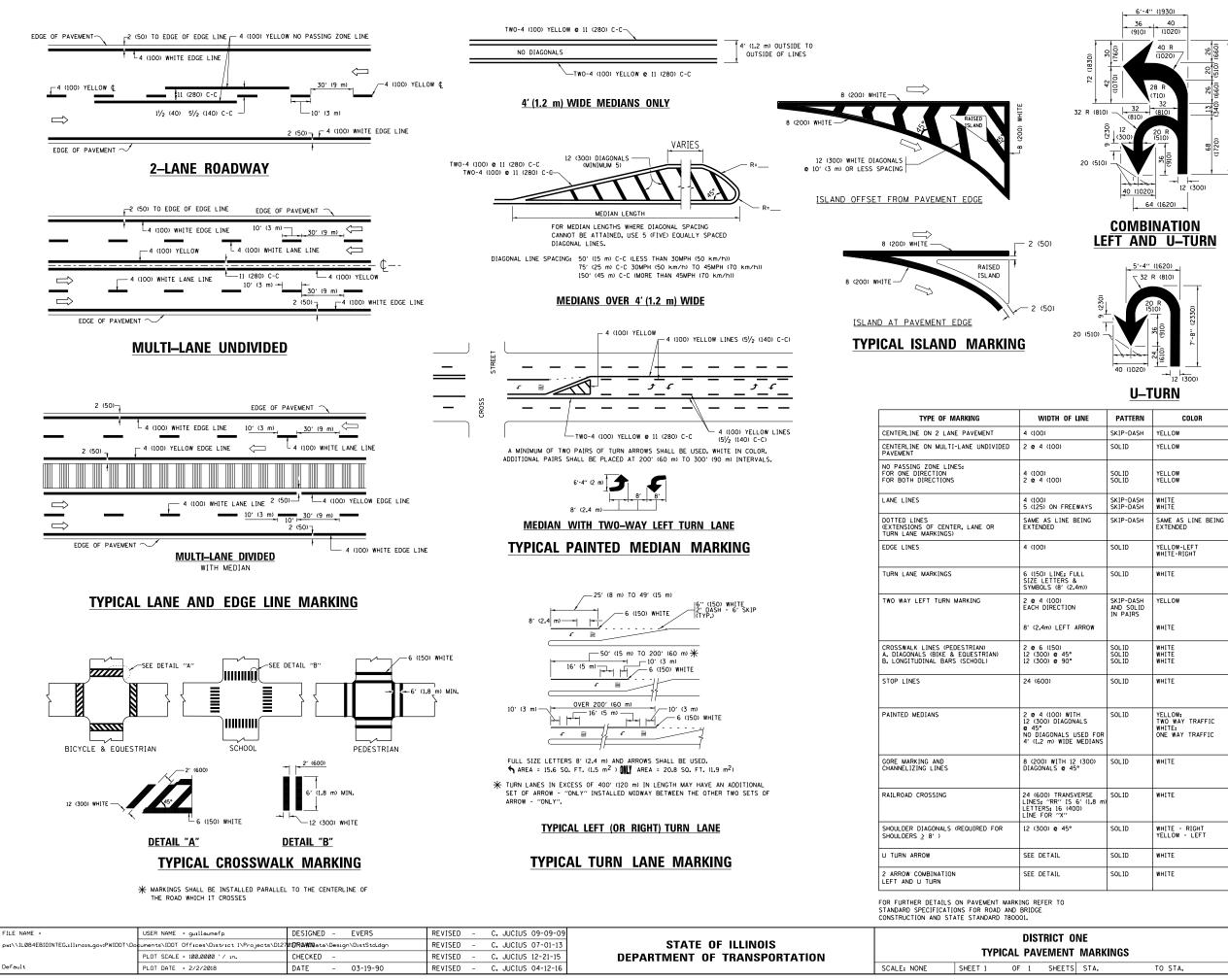
	ROAD ROAD
	NOTES:
	<ol> <li>SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:</li> <li>ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 × 36 (900×900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200" (60 m) IN ADVANCE OF THE MAIN ROUTE.</li> <li>D THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE I, TYPE II BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.</li> <li>SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENCINCER:</li> <li>O ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 × 48 (1.2 m × 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500" (150 m) IN ADVANCE OF THE MAIN ROUTE.</li> <li>THE CLOSED PORTION.</li> <li>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.</li> <li>WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-4).</li> </ol>
	All dimensions are in inches (millimeters) unless otherwise shown.
FILE NAME =         USER NAME = guillaume6p         DESIGNED -         L.H.A.         REVISED -         A. HOUSEH 10-15-96           pwt\Ll084EBIDINTEG.illinois.goviPWID01V0         uments\LD01 Offices\District I\Projects\D1270R&MMDite>Design\DistStd.dgn         REVISED -         T. RAMMACHER 01-06-00           PL01 SCALE = 100.0000 // in.         CHECKED -         REVISED -         A. SCHUETZE 07-01-13           Default         DATE -         06-89         REVISED -         A. SCHUETZE 09-15-16	STATE OF ILLINOIS         STATE OF ILLINOIS         SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS       F.A.P. R.L., SECTION       COUNTY       TOTAL SHEETS         STATE OF ILLINOIS         DEPARTMENT OF TRANSPORTATION         SCALE: NONE       SHEET 1       OF 1       SHEETS       STAL       TO STAL         COUNTY       TOTAL SHEETS       SHEETS       STAL         SCALE: NONE       SHEETS       STAL       TO STAL       TO STAL       STAL       STAL       TO STAL       SECTION       STAL

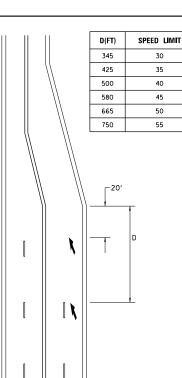




FILE NAME =	USER NAME = guillaumefp	DESIGNED -	REVISED - T. RAMMACHER 09-19-94			TYPICAL APPLICATIONS	F.A.P. RTF.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
pw:\\IL084EBIDINTEG.1111no1s.gov:PWIDOT\Do	uments\IDOT_Offices\District_1\Projects\D127	0 <b>1)7R0AWIN)</b> ata\Design\DistStd.dgn	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS					LAKE	50 44
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)			X-R-RS-2 TC-11		T NO. 62F26
	PLOT DATE = 2/2/2018	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED		

4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.





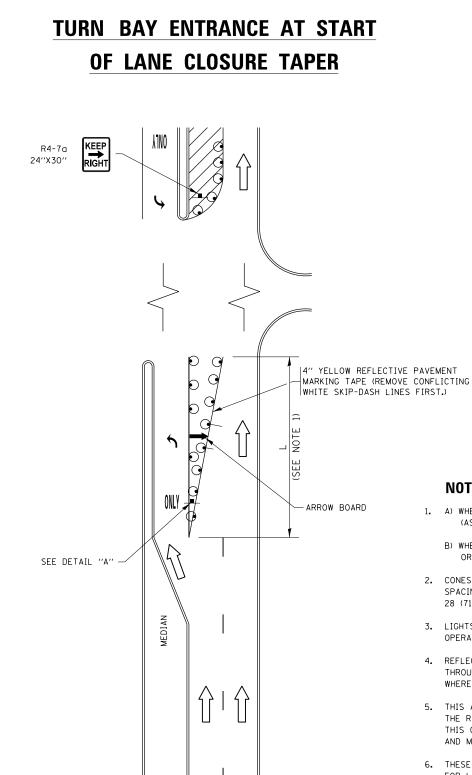
# LANE REDUCTION TRANSITION

# lane reduction arrows required at speeds of 45 MPH or greater or when specified in plans.

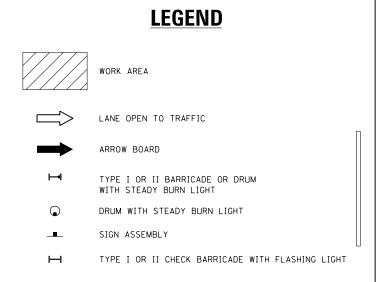
F LINE	PATTERN	COLOR	SPACING /REMARKS
	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
	SOLID	YELLOW	11 (280) C-C
	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
EEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
BEING	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
FULL & 2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
ON ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
•	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
	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
ITH DNALS USED FOR E MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
12 (300) 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 (0VER 45MPH (70 km/h))
SVERSE 5 6' (1.8 m) 400)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO, FT. (0.33 m <sup>2</sup> ) EACH "X"=54.0 SO, FT. (5.0 m <sup>2</sup> )
•	SOLID	WHITE - RIGHT YELLOW - LEFT	50' (15 m) C-C (LESS THAN 30MPH (50 km/h)) 75' (25 m) C-C (30 MPH (50 km/h) TO 45MPH (70 km/h)) 150' (45 m) C-C (0VER 45MPH (70 km/h))
	SOLID	WHITE	16.3 SF
	SOLID	WHITE	30.4 SF

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

0	NE		F.A.P RTE.	SEC	ION		COUNTY	TOTAL SHEETS	SHEET NO.
т	MARKINGS		541	X-R-RS-2			LAKE	50	45
	MAIIMINUU			TC-13			CONTRACT	NO. 62	F26
TS	STA.	TO STA.	ILLINOIS FED. AID PROJECT						

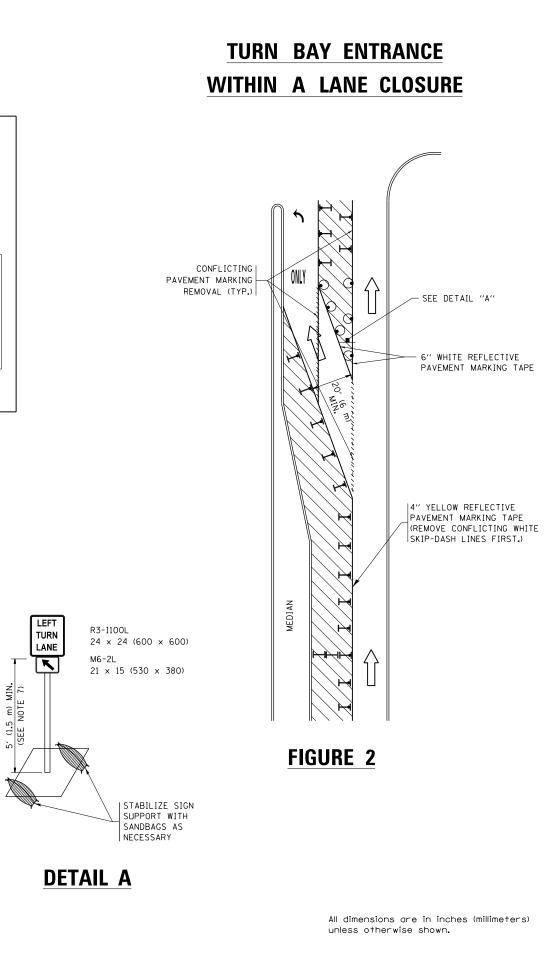


**FIGURE 1** 

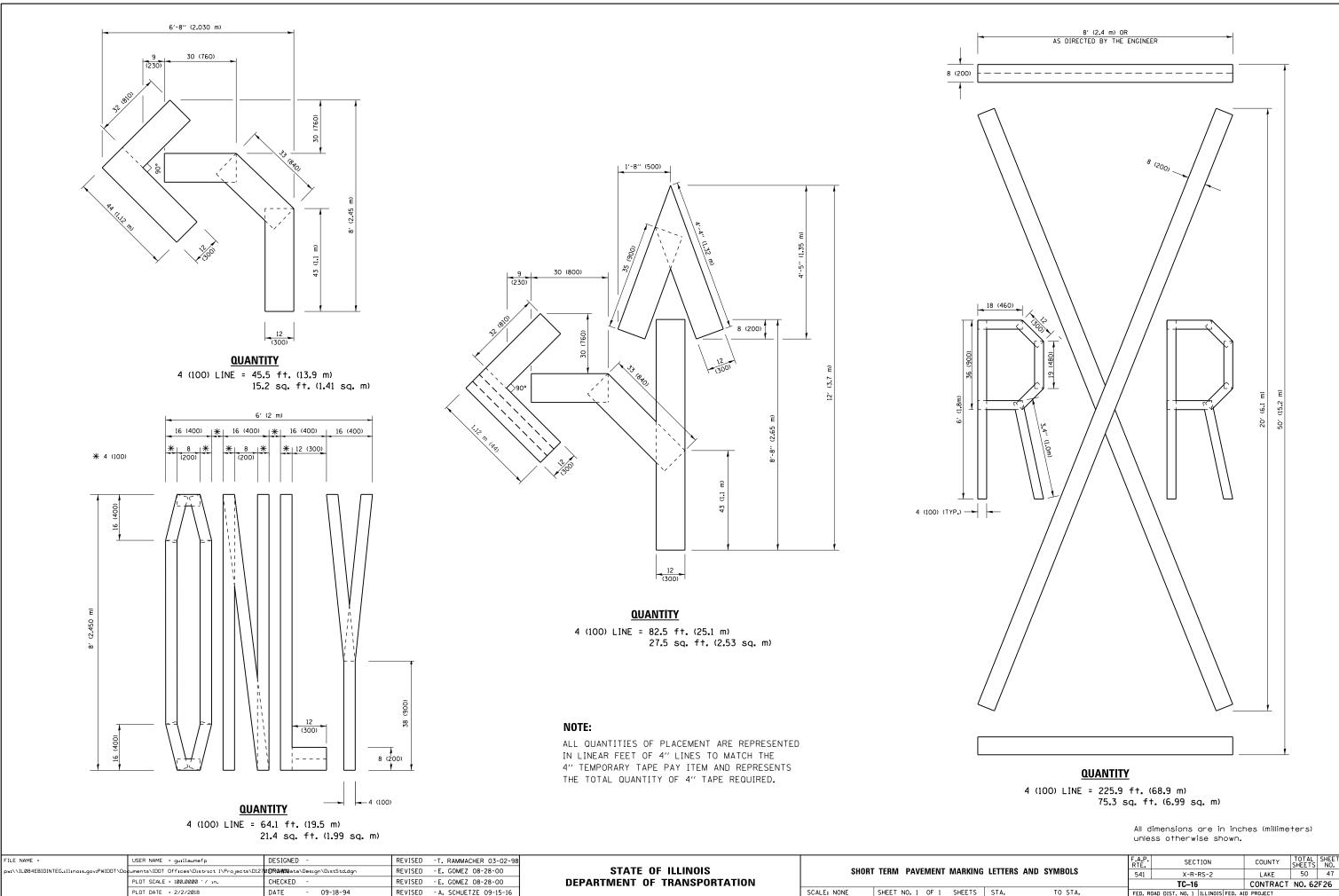


# NOTES:

- 1. A) WHEN "L" IS < THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
  - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-1100R 24 x 24 (600 x 600) AND M6-2R 21 × 15 (530 × 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.

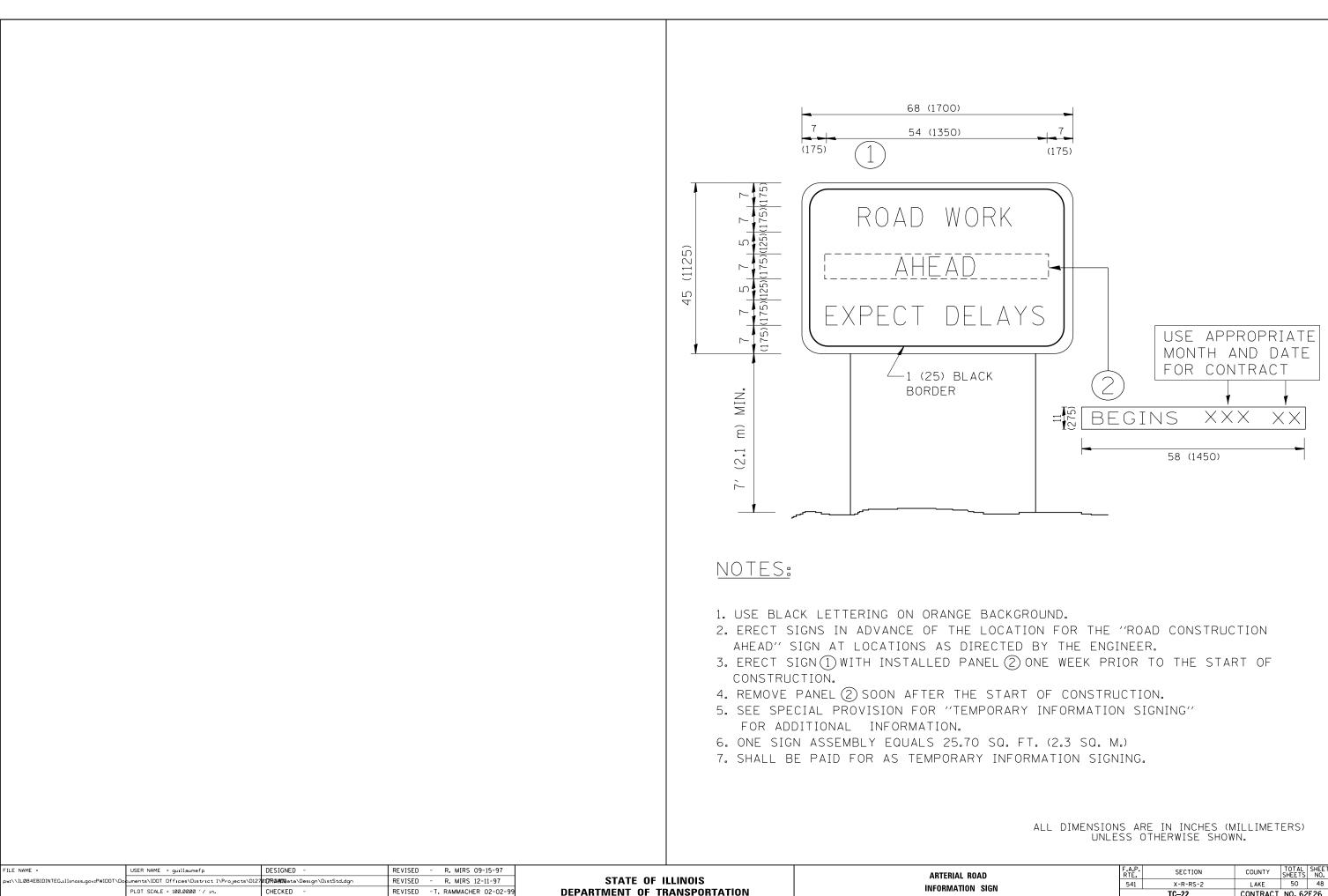


FILE NAME =		USER NAME = guillaumefp		. RAMMACHER 09-08-94			TB	AFFIC CONTROL AND PROTECTION AT TU	RN BAYS	F.A.P RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
pw:\\ILØ84EBIDINT	TEG.1111no15.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Project	ts\D1270REWASED.a\Desig			STATE OF ILLINOIS		(TO REMAIN OPEN TO TRAFFIC)		541	X-R-RS-2	LAKE	50 46
		PLOT SCALE = 100.0000 '/ in.	REVISED -	A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16	DEPARTMENT OF TRANSPORTATION		, , ,			TC-14	CONTRAC	T NO. 62F26
Default		PLOT DATE = 2/2/2018	REVISED - T.	. RAMMACHER 01-06-00	REVISED -		SCALE: NONE	SHEET 1 OF 1 SHEETS STA.	TO STA.		ILLINOIS FEI	D. AID PROJECT	



SCALE: NONE SHEET NO. 1 OF 1 SHEETS

			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
IG LETTERS AND SYMBOLS		541	X-R-RS-2	LAKE	50	47			
				TC-16 CONTRACT NO. 62F26					
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT						



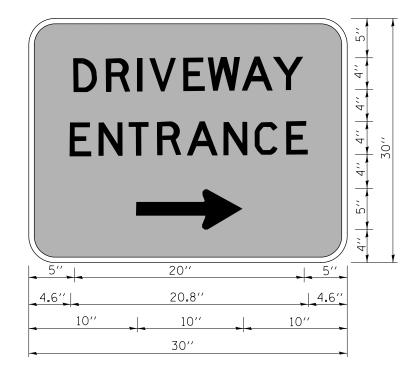
REVISED - C. JUCIUS 01-31-07

PLOT DATE = 2/2/2018

DATE

SCALE: NONE SHEET NO. 1 OF 1 SHEETS

ROAD In Sign			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.			
			541	X-R-RS-2	LAKE	50	48			
			TC-22 CONTRACT NO. 62F26							
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT							

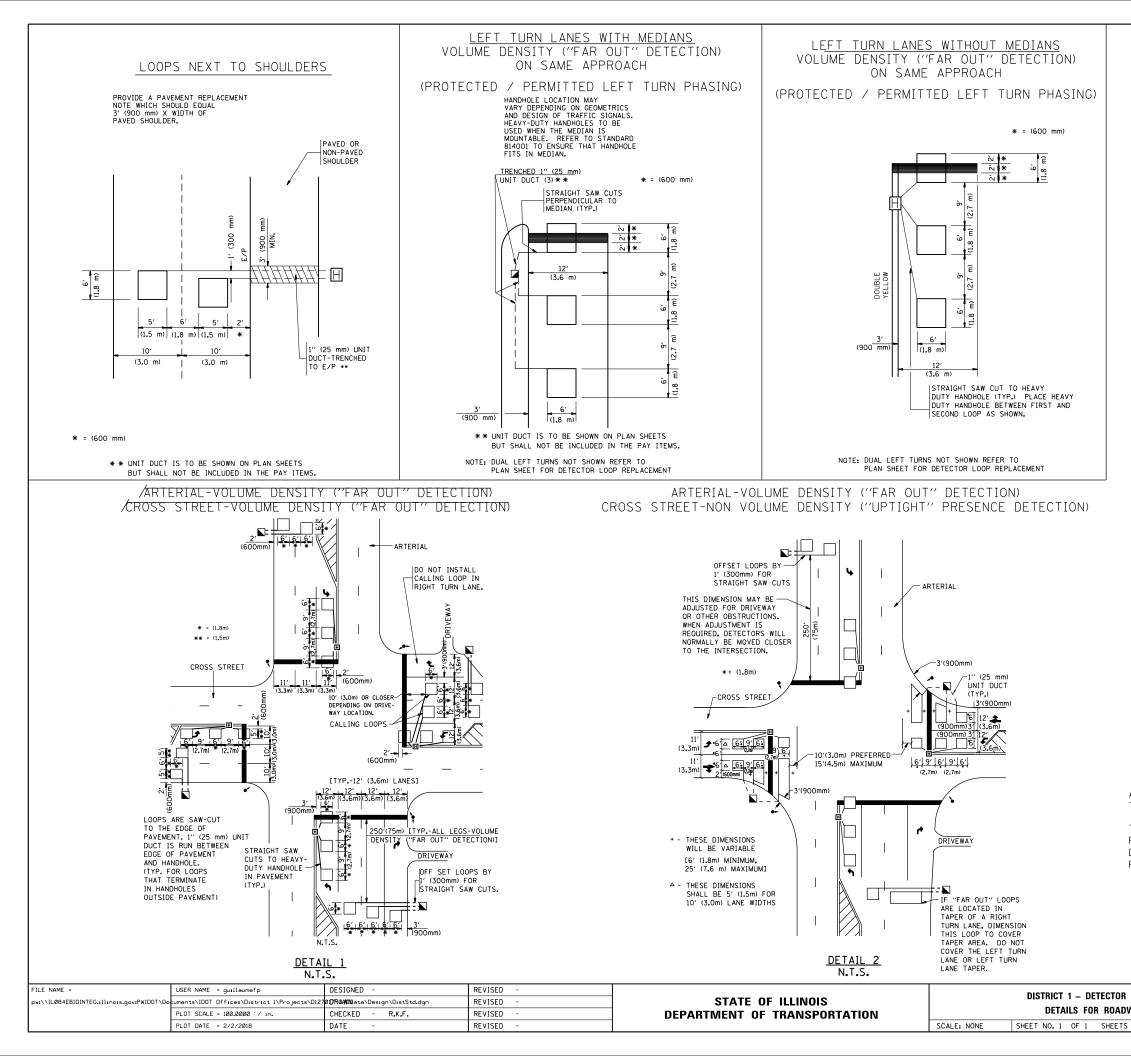


3.0" RADIUS, 0.5" BORDER, WHITE ON GREEN; REFLECTORIZED "DRIVEWAY" D; "ENTRANCE" D; STANDARD ARROW CUSTOM 12.0" × 5.0"

# NOTES:

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

FILE NAME =	USER NAME = guillaumefp	DESIGNED -	REVISED - C. JUCIUS 02-15-07	·	DRIVEWAY ENTRANCE SIGNING			F.A.P.	SECTION	COUNTY	TOTAL SHEET	
pw:\\ILØ84EBIDINTEG.1llinois.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D127	01 <b>07R0A409</b> ata\Design\DistStd.dgn	REVISED -	STATE OF ILLINOIS			-	541	X-R-RS-2	LAKE	50 49	
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION					TC-26	CONTRAC	CT NO. 62F26	
	PLOT DATE = 2/2/2018	DATE -	REVISED -		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD DI			



## NOTES:

## VEHICLES LOOP DETECTORS

- \* ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- \* EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX. EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- \* ONE DIMENSION OF <u>ALL</u> 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, <u>MORE</u> 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. <u>EACH</u> ONE OF THESE TYPE OF LOOPS REQUIRES A <u>SEPARATE</u> TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A <u>SEPARATE</u> 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  $\underline{ALL}$  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.

LOOP INSTALLATION Way resurfacing			F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
			541	X-R-RS-2	LAKE	50	50
••/	WAT RESURFACING			TS07	CONTRACT	NO. 62	F26
	STA.	TO STA.	FED. RO	DAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT		