

GENERAL NOTES

		1.	BEFORE STARTING ANY 1 (800) 892-0123 OR 811 GAS UTILITIES. (48 HO
		2.	THE CONTRACTOR SHALL COMPANIES, AND THE CI
HIGHWAY	STANDARDS	3.	THE CONTRACTOR WILL STATE PROPERTY WITHO
ANDARD NO.	DESCRIPTION	4.	ANY PAVEMENT MARKING
000001-07	STANDARD SYMBOLS, ABBREVIATIONS AND PATTERNS		MILLING AND RESURFACI REPLACED AND PAID FOR
424001-11	PERPENDICULAR CURB RAMPS FOR SIDEWALKS	5.	ALL DAMAGE TO EXISTIN
424006-04	DIAGONAL CURB RAMPS FOR SIDEWALKS		ADDITIONAL COST TO TH
424011-04	CORNER PARALLEL CURB RAMPS FOR SIDEWALKS	6.	BEFORE BEGINNING ANY REFERENCE, ALL EXISTIN
424021-05	DEPRESSED CORNER FOR SIDEWALKS		EXACT LOCATIONS OF A ENGINEER.
424031-02	MEDIAN PEDESTRIAN CROSSINGS	7.	ALL PAVEMENT PATCHIN
442201-03	CLASS C AND D PATCHES		ENGINEER/TECHNICIAN.
602011-02	CATCH BASIN TYPE C	8.	DRAINAGE ADJUSTMENT FIELD BY THE RESIDENT
604001-04	FRAME AND LIDS TYPE 1	9.	IT SHALL BE THE CONTR
604091-03	FRAME AND GRATE TYPE 24	10	EDAMES AND CRATES AD
606001-07	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER	10.	IMPROVEMENTS SHALL B CONTRACT.
635001-02	DELINEATORS	11.	FOR FRAMES AND LIDS
642001-02	SHOULDER RUMBLE STRIPS, 16"	12.	THE CONTRACTOR SHALL
701101-05	OFF-ROAD OPERATIONS, MULTILANE, 15' (4.5 m) TO 24'' (600 MM) FROM PAVEMENT EDGE	13.	AT KALPANA.KANNAN-HOS SUPERVISOR AT (847)70 THE RESIDENT ENGINEER
701106-02	OFF-ROAD OPERATIONS, MULTILANE, MORE THAN 15' (4.5 m) AWAY	14	PLACEMENT OF PERMANE
		17.	DU NUT SCALE PLANS F
701400-09	APPROACH TO LANE CLOSURE, FREEWAY/EXPRESSWAY	15.	DOUBLE LANE MARKERS APPLICATIONS - RAISED
701401-12	LANE CLOSURE, FREEWAY/EXPRESSWAY	16.	WHEN THE MILLED PAVE BETWEEN PASSES OF TH
701411-09	LANE CLOSURE, MULTI LANE ENTRANCE OR EXIT RAMP, 45 MPH OR MORE		THE SPEED LIMIT IS 45 LIMIT IS GREATER THAN MAXIMUM GRADE DIFFERI MILLING IS SLOPED A N
701421-08	LANE CLOSURE, MULTILANE, DAY OPERATIONS ONLY, FOR SPEEDS > 45 MPH TO 55 MPH	17.	BUTT JOINTS WILL BE I MEETS EXISTING PAVEM
701428-01	TRAFFIC CONTROL SETUP AND REMOVAL FREEWAY/EXPRESSWAY		DETAILS" SHEET INCLUD
		18.	PAVEMENT MARKING TAP ON ALL FINAL SURFACES
/01446-09	TWO LANE CLOSURE, FREEWAY/EXPRESSWAY	19.	LOCATION OF COMBINAT
701601-09	URBAN LANE CLOSURE, MULTILANE, 1W OR 2W WITH NONTRAVERSABLE MEDIAN		DETERMINED IN THE FIE
701701-10	URBAN LANE CLOSURE, MULTILANE INTERSECTION	20.	THE CONTRACTOR SHAL
701801-06	SIDEWALK CORNER OR CROSSWALK CLOSURE		TO EXISTING ITEMS BY EXPENSE TO THE SATIS
701901-08	TRAFFIC CONTROL DEVICES	21.	THE CONTRACTOR SHALL
704001-08	TEMPORARY CONCRETE BARRIER	22.	THE CONTRACTOR SHALL DAMAGED DURING CONST
725001-01	OBJECT AND TERMINAL MARKERS		
780001-05	TYPICAL PAVEMENT MARKINGS		

USER NAME = aquinoma	DESIGNED -	REVISED -		us	41 (PARK	AVENUE	WEST TO CHA		F.A.P. BTE	SECTION	COUNTY	TOTAL S	HEET
	DRAWN -	REVISED -	STATE OF ILLINOIS			CTATE	CTANDADDC AN	ID GENERAL NOTES	346	2018-111-RS&SW	LAKE	42	2
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		SHEETS	STATE	STANDARDS AN	D GENERAL NUTES			CONTRAC	T NO. 62h	36
PLOT DATE = 3/19/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHEETS STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

GUARDRAIL AND BARRIER WALL REFLECTOR MOUNTING DETAILS

STANDARD NO. 000001-07

782006

INDEX OF SHEETS

INDLA	
SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
3-4	SUMMARY OF QUANTITIES
5-7	TYPICAL SECTIONS
8-14	ROADWAY AND PAVEMENT MARKING PLAN
15	ADA RAMP DETAILS
16-17	DETECTOR LOOP REPLACEMENT PLAN
18	CULVERT REPAIR: ALGINGMENT, TIES AND BENCHMARK
19	CULVERT REPAIR: REMOVAL AND PROPOSED ROADWAY PLAN
20	CULVERT REPAIR TRAFFIC CONTROL, GENERAL NOTES AND TYPICAL SECTION
21-21A	CULVERT REPAIR: TRAFFIC CONTROL PLAN
22	CULVERT REPAIR: EROSION CONTROL AND LANSCAPING PLAN
23	CULVERT REPAIR: PAVEMENT MARKING PLAN
24	CULVERT REPAIR: GENERAL PLAN AND DETAILS
25	CULVERT REPAIRS: BOX CULVERT STRUCTURE REMOVAL AND EXCAVATION
26	CULVERT REPAIR: BOX CULVERT REPAIR DETAILS
27	BD-08: DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING
28	BD-22: PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT
29	BD-24: CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT
30	BD-32: BUTT JOINT AND HMA TAPER DETAILS
31	BD-33: HMA TAPER AT EDGE OF P.C.C. PAVEMENT
32	TC-8: ENTRANCE AND EXIT RAMP CLOSURE DETAILS
32A	TC-9: SINGLE AND MULTI-LANE WEAVE
33	TC-10: TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS,
34	TC-11: TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT)
35-36	TC-12: MULTI-LANE FREEWAY PAVEMENT MARKINGS
37	TC-13: DISTRICT ONE TYPICAL PAVEMENT MARKINGS
38	TC-14: TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN
39	TC-16: SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS
40	TC-17: TRAFFIC ONTROL FOR FREEWAY SHOULDER CLOSURES AND PARTIAL RAMP CLOSURES
41	TC-22: ARTERIAL ROAD INFORMATION SIGN
42	TS-07: DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING

EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND DUR NOTIFICATION IS REQUIRED)

L COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY ITY OF HIGHLAND PARK.

NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON DUT WRITTEN PERMISSION FROM THE DEPARTMENT.

GS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY ING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE IR IN KIND.

NG PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO HE DEPARTMENT.

WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE ING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT IAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED BY THE RESIDENT

IG LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE RESIDENT

OR RECONSTRUCTION LOCATIONS WILL BE DETERMINED IN THE TENGINEER/TECHNICIAN.

RACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

DJUSTMENT OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE BE DONE BY THEIR RESPECTIVE OWNERS AND ARE NOT PART OF THIS

ADJUSTMENT WITHOUT MILLING, REUSE EXISTING FRAME AND LID

L CONTACT DISTRICT ONE ARTERIAL TRAFFIC CONTROL SUPERVISOR, SADURGA@ILLINOIS.GOV, AND EXPRESSWAYS TRAFFIC CONTROL 95-4157, A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK. R SHALL CONTACT WALTER CZARNY, ARTERIAL TRAFFIC FIELD CZARNYCILLINOIS.GOV A MINIMUM OF TWO (2) WEEKS PRIOR TO THE ENT PAVEMENT MARKINGS.

OR CONSTRUCTION DIMENSIONS.

ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL D REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT). ENENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERITIAL HE MILLING MACHINE SHALL NOT EXCEED 11/2INCHES (40 mm) WHERE 5 MPH (80 km/h) OR LESS AND 1 INCH (25 mm) WHERE THE SPEED N 45 MPH (80 km/h). WITH WRITTEN APPROVAL OF THE ENGINEER, A ENTIAL OF 3 INCHES (75 mm) MAY BE ALLOWED IF THE EDGE OF THE MINIMUM 1:3.

INSTALLED AT THE ENDS OF ALL RESURFACING (WHERE RESURFACING HENT) ACCORDING TO THE "BUTT JOINT AND HOT-MIX ASPHALT TAPER DED IN THE PLANS, UNLESS OTHERWISE SPECIFIED.

PE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS

TION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT [OR O GUTTER (THE TYPE SPECIFIED ON THE PLANS)], WILL BE ELD BY THE RESIDENT ENGINEER/TECHNICIAN.

L USE CARE IN GRADING OR EXCAVATING NEAR ANY AND ALL EXISTING BE REMOVED INCLUDING PREVIOUSLY SEEDED AREAS. ANY DAMAGE DONE Y THE CONTRACTOR SHALL BE REPAIRED AT THE CONTRACTOR'S OWN SFACTION OF THE ENIGINEER.

L MAINTAIN PEDESTRIAN ACCESS AT ALL TIMES DURING CONSTRUCTION.

L BE RESPONSIBLE FOR THE REPLACEMENT OF ANY DETECTOR LOOPS TRUCTION.

			URBAN					0.05					
	SUMMARY OF QUANTITIES	1	_	005	CC		ON TYPE C				SUMMA	ARY OF QUANTITIES	
CODE NO	ІТЕМ	UNIT	TOTAL QUANTITIES	80% FED 20% STATE ROADWAY						CODE NO		ITEM	UN
20200100	EARTH EXCAVATION	CU YD	29.5	29.5						40603340	HOT-MIX ASP	HALT SURFACE COURSE, MIX	тс
20201200	REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL	CU YD	16	16							"D", N70		
20700220	POROUS GRANULAR EMBANKMENT	CU YD	13	13		1							
										42400200	PORTLAND CE	MENT CONCRETE SIDEWALK 5	SO
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YD	79	79							INCH		
25000210	SEEDING, CLASS 2A	ACRE	0.2	0.2						44000159	HOT-MIX ASP	HALT SURFACE REMOVAL, 2	so
											1/2"		
25000400	NITROGEN FERTILIZER NUTRIENT	POUND	1.5	1.5									
										44000600	SIDEWALK RE	MOVAL	50
25000500	PHOSPHORUS FERTILIZER NUTRIENT	POUND	1.5	1.5									
										44004250	PAVED SHOUL	DER REMOVAL	50
25000600	POTASSIUM FERTILIZER NUTRIENT	POUND	1.5	1.5						44200976	CLASS B PATO	CHES, TYPE IV, 10 INCH	50
										44201863	CLASS D PAT	CHES, TYPE II, 18 INCH	50
25100630	EROSION CONTROL BLANKET	SO YD	24	24									
										44201867	CLASS D PAT	CHES, TYPE III, 18 INCH	50
25200110	SODDING, SALT TOLERANT	SO YD	55	55									
28000250	TEMPORARY EROSION CONTROL SEEDING	POUND	2	2						44201869	CLASS D PAT	CHES, TYPE IV, 18 INCH	S0
28000400	PERIMETER EROSION BARRIER	FOOT	66	66						44213000	PATCHING REI	NFORCEMENT	50
30300112	AGGREGATE SUBGRADE IMPROVEMENT 12"	SQ YD	21	21						48102100	AGGREGATE W	EDGE SHOULDER, TYPE B	тс
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	90615	90615						44213200	SAW CUTS		F
										48203037	HOT-MIX ASP	HALT SHOULDERS, 10"	S0
40600400	MIXTURE FOR CRACKS, JOINTS, AND	TON	201	201						4421 3208	TIE BARS 1 1/	· 4 "	EAC
	FLANGEWAYS									50102400	CONCRETE RE	MOVAL	CU
40600827	POLYMERIZED LEVELING BINDER (MACHINE	TON	5517	5517		1	1			50200100	STRUCTURE E	XCAVATION	CU
	METHOD), IL-4.75, N50												
										50800205	REINFORCEME	NT BARS, EPOXY COATED	POL
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SO YD	489	489									
	JOINT									52200020	TEMPORARY S	OIL RETENTION SYSTEM	SO
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L													3

	URBAN						
IT	TOTAL QUANTITIES	005 80% FED 20% STATE ROADWAY	 CO	NSTRUCTIO	N TYPE C		
N	5861	5861					
FT	570	570					
YD	133741	133741					
FT	559	559					
YD	21	21					
YD	832	832					
YD	1000	1000					
YD	1400	1400					
YD	400	400					
YD	832	832					
N	53	53					
тос	1632	1632					
YD	21	21					
Сн	244	244					
YD	2.7	2.7					
YD	27	27					
JND	980	980					
FT	241	241					
						REV	- MS
T TO	CHANTILLY TIES	BLVD)	 F.A.P. RTE. 346	SECT1 2018-111-F	ON RS&SW	COUNTY SH	DTAL SHEET EETS NO. 42 3
STA.	T(D STA.	 FED. ROA	AD DIST. NO. 1 IL	LINOIS FED. AID	CONTRACT N	IU. 62H36

,				URBAN	1									URBAN						
		SUMMARY OF QUANTITIES			005	CONSTRUCTI	UN TYPE CO	JDF			SUMMA	RY OF QUANTITIES			0.05	COI	NSTRUCTIO	IN IYPE C	JDE	<u> </u>
	CODE NO	ITEM	UNIT	TOTAL	80% FED 20% STATE ROADWAY					CODE NO		ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE ROADWAY					
	54002020	EXPANSION BOLTS 3/4 INCH	EACH	15	15					* 66901003	REGULATED SI	UBSTANCES FINAL CONSTRUCTION	LSUM	1	1					
Ì											REPORT									
Ì	54003000	CONCRETE BOX CULVERTS	CU YD	3. 9	3.9															
	59100100	GEOCOMPOSITE WALL DRAIN	CU YD	3.0	3.0					67000400	ENGINEER'S I	FIELD OFFICE, TYPE A	CAL MO	12	12					
Ì	60300105	FRAMES AND GRATES TO BE ADJUSTED	EACH	20	20															
										67100100	MOBILIZATIO	N	L SUM	1	1					
	63000053	WEAK POST GUARDRAIL ATTACHED TO CULVERT	FOOT	31.25	31.25															
		CASE IV								70200100	NIGHTTIME W	ORK ZONE LIGHTING	L SUM	1	1					
	63100045	TRAFFIC BARRIER TERMINAL, TYPE 2	EACH	1	1					70300100	SHORT TERM	PAVEMENT MARKING	FOOT	7632	7632					
	63200310	GUARDRAIL REMOVAL	FOOT	37.5	37.5					70300150	SHORT TERM	PAVEMENT MARKING REMOVAL	SO FT	636	636					<u> </u>
	63500105	DELINEATORS	EACH	1 35	1 35					70300210	TEMPORARY P	AVEMENT MARKING LETTERS AND	SO FT	233	233					
											SYMBOLS									
	64200116	SHOULDER RUMBLE STRIPS, 16 INCH	FOOT	21459	21459															
										70300220	TEMPORARY P	AVEMENT MARKING - LINE 4"	FOOT	65072	65072					1
	64300260	IMPACT ATTENUATORS (FULLY REDIRECTIVE,	EACH	1	1															<u> </u>
		NARROW), TEST LEVEL 3								70300240	TEMPORARY P	AVEMENT MARKING - LINE 6"	FOOT	997	997					1
*	66900200	NON-SPECIAL WASTE DISPOSAL	CU YD	29. 5	29. 5					70300250	TEMPORARY P	AVEMENT MARKING - LINE 8"	FOOT	4202	4202					
																				<u> </u>
*	66900530	SOIL DISPOSAL ANALYSIS	EACH	1	1	I				70300260	TEMPORARY PA	AVEMENT MARKING - LINE 12"	FOOT	864	864					
						I														<u> </u>
*	66901001	REGULATED SUBSTANCES PRE-CONSTRUCTION	LSUM	1	1					70300280	TEMPORARY P	AVEMENT MARKING - LINE 24"	FOOT	1 75	175					<u> </u>
		PLAN																		<u> </u>
										70300520	PAVEMENT MAR	RKING TAPE, TYPE III 4"	FOOT	1908	1908					<u> </u>
*	66901002	ON-SITE MONITORING OF REGULATED	CAL DA	1	1					70300904	PAVEMENT MAI	RKING TAPE, TYPE IV 4"	FOOT	2238	2238					
		SUBSTANCES								70400100	TEMPORARY CO	DNCRETE BARRIER	FOOT	150	150					<u> </u>
										70300530	PAVEMENT MAI	RKING TAPE, TYPE III 5"	FOOT	20460	20460					<u> </u>
											* SPECIALI	IY ITEMS						,	RE	V MS
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		PLOT SCALE = 100,0000 1/ IA. CH	ECKED -		REVISED	-	DE	PARTME	NT OF T	RANSPORTA	TION	SUMMARY	UF QUANTI	HES	0.67.		2010 111-1		CONTRACT N	10. 62H36
		PLOT DATE = 2/5/2019 DA	IE -		REVISED	-						SUALE: SHEET NO. OF	SHEE STA	T	U STA.	FED. ROA	D DIST. NO. 1 IL	LINOIS FED. AID	PROJECT	

				URBAN									
		SUMMARY OF QUANTITIES			005	CONSTRUCTI	ON TYPE C	ODE			SUMM	ARY OF QUANTITIES	
	CODE NO	ITEM	UNIT	TOTAL QUANTITIES	80% FED 20% STATE ROADWAY					CODE N	ο	ITEM	UN
*	78000100	THERMOPLASTIC PAVEMENT MARKING -	SO FT	233	233					x20201	O GRADING AND	SHAPING SHOULDERS	UN
		LETTERS AND SYMBOLS											
*	78004354	PREFORMED PLASTIC PAVEMENT MARKING TYPE D, INLAID 4"	FOOT	3624	3624					X406000	4 POLYMERIZED	HOT-MIX ASPHALT SURFACE	то
*	78000200	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	43600	43600						COURSE, STO	NE MATRIX ASPHALT, 9.5, N80	
		4"											
*	78004355	PREFORMED PLASTIC PAVEMENT MARKING TYPE D, INLAID 5"	FOOT	20710	20710					x603020	5 FRAMES AND	GRATES TO BE ADJUSTED	EA
*	78000400	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	997	997						(SPECIAL)		
		6"											
*	78004358	PREFORMED PLASTIC PAVEMENT MARKING TYPE D, INLAID 8"	FOOT	1097	1097					x70102	6 TRAFFIC CON	TROL AND PROTECTION,	LS
*	78000500	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	4202	4202						(SPECIAL)		
		8"								x701101	5 TRAFFIC CONT	ROL AND PROTECTION (EXPRESSWAYS)	LS
*	78004356	PREFORMED PLASTIC PAVEMENT MARKING TYPE D, INLAID 6"	FOOT	600	600					x703000	5 TEMPORARY P	AVEMENT MARKING REMOVAL	so
*	78000600	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	864	864								
		12"								Z000456	2 COMBINATION	CONCRETE CURB AND GUTTER	FO
											REMOVAL AND	REPLACEMENT	
*	78000650	THERMOPLASTIC PAVEMENT MARKING - LINE	FOOT	175	175								
		24"								Z001379	8 CONSTRUCTIO	N LAYOUT	LS
*	78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	550	550					Z001850	O DRAINAGE ST	RUCTURES TO BE CLEANED	EA
	78100300	REPLACEMENT REFLECTOR	EACH	14	14					Z001860	O DRAINAGE ST	RUCTURES TO BE RECONSTRUCTED	EA
	78200005	GUARDRAIL REFLECTORS, TYPE A	EACH	4	4								
	78300200	RAISED REFLECTIVE PAVEMENT MARKER	EACH	564	564					Z003085	0 TEMPORARY I	NFORMATION SIGNING	SQ
		REMOVAL											
	78200011	BARRIER WALL REFLECTORS, TYPE C	EACH	8	8					Z003370	0 LONGITUDINA	L JOINT SEALANT	FO
*	88600600	DETECTOR LOOP REPLACEMENT	FOOT	493	493								
	x0320050	CONSTRUCTION LAYOUT (SPECIAL)	LSUM	1	1				ļ				
	X0327980	PAVEMENT MARKING REMOVAL - WATER BLASTING	SQ FT	450	450								
*	X0900064	MEMBRANE WATERPROOFING SYSTEM FOR	SO YD	3	3				ļ			I-PART. 100% STATE	
		BURIED STRUCTURES									* SPE	CIALTY ITEMS	
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		PLOT SCALE = 100,0000 '/ In, CH	ECKED -		REVISED	-	D	EPARTME	NT OF T	RANSPOR	TATION	SUMMARY	OF QL
		PLOT DATE = 2/5/2019 DA	IE -		REVISED	-						SCALE: SHEET NO. OF	SHEETS

	URBAN							
			 CO	NSTRUCTIO	N TYPE			
	ΤΟΤΑΙ	005 80% FED						
IT	QUANTITIES	20% STATE						
		ROADWAY						
1 T	215	215	 				-	
11	215	215				-	_	
N	7246	7246					+	
							+	
СН	15	15						
							+	
SUM	1	1						
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SUM	1	1						
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						RE	<u>-</u> Y	MS
T TO	CHANTILLY	BLVD)	F.A.P.	SECTI	DN DC		SHEETS	SHEET
	TIES	0 574	- J40 (2010-111-1		CONTRACT	NO.	62H36
I SIA.	10	U 31A.	FED. RO	AU DIST. NO. 1 (IL	LINDIS FED. A	D PROJECT		

				€ OF U.S. ROUTE 41		
		. 8′	COF SOUTHBOUND	81	€ OF NORTHBOUND	
	-	\sim VARIES 12'				
		-± 10 1/2"				
	لتر - ب_ [_] [_] =					+ = = _
	,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,,					
	. (4) (. (6		$\begin{pmatrix} 1 \end{pmatrix}$ (6)	([†]) (⁴)
				(5)		
			EVICTINO	TYPICAL SECTION		
			STA, 10+45.8	TO STA 42+67	4 7	
	+ 1/2/2/22			5 10 51A. 12101	a 🗆 I	
	5 1 (1)					
SEE PLANS FOR EXACT	LOCATION OF CONCRETE BARR	IER *		€ OF U.S. ROUTE 41		
		91	C OF SOUTHBOUND		€ OF NORTHBOUND	
		& VARIES 12'		RIES & VARIES 12'	12′ <mark>&</mark> VA	, RIES
						- 1′
		4% * EXIST.	EXIST. *	$() \qquad $		
	- † 7					
	, , ;:					
	.1			(5)		
					9 8	
		0.0	Ŭ	0 0 0		8 10 12
			PROPOSED	YPICAL SECTION		
			STA. 10+45.83	5 IO STA 42+67.47		
	(5) (10) (8)					
SEE PLANS FOR EXACT	LOCATION OF CONCRETE BARR	IER *				
NOTE 1: THE L	JNIT WEIGHT USED TO CALC	ULATE ALL HMA SURFACE	MIXTURE QUANTITIES IS 112 L	BS/SQYD/IN		
NOTE 2: THE "	AC TYPE" FOR POLYMERIZE	D HMA MIXES SHALL BE	"SBS/SBR PG 76-22" AND FOR	NON-POLYMERIZED		
НМА	THE "AC TYPE" SHALL B	BE "PG 64-22" UNLESS	MODIFIED BY DISTRICT ONE	SPECIAL PROVISIONS.	N	AIXTURE USES
NOTE 3: FOR L	JSE OF RECYCLED MATERIAL	S SEE SPECIAL PROVISIO	INS.		PAVEMENT & SHOULD	DEB BESUBFACING
NOTE 4: QUALI	TY MANAGEMENT PROGRAM	(QMP) IDENTIFIES THE PA	RTICULAR QUALITY CONTROL SF	ECIFICATION THAT APPLIES	HOT-MIX ASPHALT SURFACE CO	URSE, MIX "D", N70 (IL 9.5 mm)
10 11	HE HMA MIXIURE.				POLYMERIZED HMA SURFACE CO	URSE, SMA, 9.5, N80
NOTE 4: THE C	CONSTRACTOR SHALL MILL T	THE ROADWAY FIRST, THE	N DO PAVEMENT PATCHING PER	BD-22 DETAIL.	POLYMERIZED LEVELING BINDER	R (MACHINE METHOD), IL-4.75, N50
NOTE 5: THE L	ONGITUDINAL JOINT SEALAN SURFACE JOINT WILL BE LO	NT SHALL BE PLACED OVE CATED.	R THE POLYMERIZED LEVELING	BINDER WHERE		
					PATCHING	
* _{RUME}	BLE STRIPS (16") WIDE				CLASS D PATCHES (HMA BINDER	R, IL-19.0 mm)
PER	STANDARD 642001				Camin Designation: Quality COL	THE OF GUGINY ASSULTCE (UC/UA); UUGI
	USER NAME = aquinoma	DESIGNED -	REVISED -	0747		TYPICAL SEC
	PLOT SCALE = 100.0000 / in	CHECKED -	REVISED -	DEPARTMENT	OF TRANSPORTATION	US 41 (PARK AVE. WEST

CHECKED -REVISED **DEPARTMENT OF TRANSPORTATION** DATE REVISED SCALE:

PLOT DATE = 3/18/2019

SHEET OF SHEETS STA.

LEGEND

- () EXISTING P.C. CONCRETE PAVEMENT, 10"
- (2) EXISTING HMA CONCRETE SURFACE, $\pm 10^{1}/_{2}$ "
- 3 EXISTING COMBINATION CONCRETE CURB AND GUTTER
- (4) EXISTING GRAVEL OR CRUSHED STONE SHOULDER
- 5 EXISTING CONCRETE BARRIER AND CONCRETE BARRIER, SPECIAL
- 6 EXISTING HMA SHOULDER, 10"
- (7) PROPOSED HMA SURFACE REMOVAL, $2^{1}/_{2}$ "
- 8 PROPOSED POLYMERIZED LEVELING BINDER, (MM), IL 4.75, N50, $\frac{3}{4}$
- (9) PROPOSED POLYMERIZED HMA SURFACE COURSE STONE MATRIX ASPHALT, 9.5, N80, $1\frac{3}{4}$ "
- 10 proposed HMA surface course, MIX "D" N70, $1\frac{3}{4}$ "
- 11) PROPOSED AGGREGATE WEDGE SHOULDERS, TYPE B
- 12 PROPOSED GRADING AND SHAPING SHOULDERS
- (13) PROPOSED DELINEATORS

TO STA.

FURE REQUIREMENTS			QUALITY MA	NAGEN	ИEN	Τ
S	VOIDS © Ndes		PROGRAM	(QMP	?)	
ING						
N70 (IL 9.5 mm)	4% AT 70 GYR.		QC/QA			
N80	3.5% AT 80 GYR.		QCP			
HOD), IL-4.75, N50	3.5% AT 50 GYR.		QCP			
	4% AT 70 GYR.		0C/0A			
ssurance (QC/QA); Quality Con	trol for Performance (CP);	PAY FOR PERFORMA	NCE (PFP)		
TYPICAL SECTIONS		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEE NO.
US 41 (PARK AVE. WEST TO CHA	NTILLY BLVD.)	346	2018-111-RS&SW	LAKE	42	6
	,			CONTRACT	NO. 6	52H36

ILLINOIS FED AID PROJECT



USER NAME = aquinoma	DESIGNED -	REVISED -			TYPICAL SECTIONS		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEET SHEETS NO.
	DRAWN -	REVISED -			AT PARK AVE WEST TO CHANTEL		346	2018-111-RS&SW	LAKE	42 7
PLOT SCALE = 100.0000 / in	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION	00	5 41 (FARK AVE. WEST TO CHANTIE	I BLVD.)			CONTRACT	r NO. 62H36
PLOT DATE = 3/18/2019	DATE -	REVISED -		SCALE:	SHEET OF SHEETS STA.	TO STA.		ILLINOIS FED. A	D PROJECT	

LEGEND

- (1) EXISTING P.C. CONCRETE PAVEMENT, 10"
- (2) EXISTING HMA CONCRETE SURFACE, $\pm 10^{1}/_{2}$ "
- (3) EXISTING COMBINATION CONCRETE CURB AND GUTTER
- (4) EXISTING GRAVEL OR CRUSHED STONE SHOULDER
- (5) EXISTING CONCRETE BARRIER AND CONCRETE BARRIER, SPECIAL
- (6) EXISTING HMA SHOULDER, 10"
- (7) PROPOSED HMA SURFACE REMOVAL, $2^{1}/_{2}$ "
- 8 PROPOSED POLYMERIZED LEVELING BINDER, (MM), IL 4.75, N50, $\frac{3}{4}$
- (9) PROPOSED POLYMERIZED HMA SURFACE COURSE STONE MATRIX ASPHALT, 9.5, N80, $1\frac{3}{4}$
- (10) PROPOSED HMA SURFACE COURSE, MIX "D" N70, $1\frac{3}{4}$ "
- (1) PROPOSED AGGREGATE WEDGE SHOULDERS, TYPE B
- (12) PROPOSED GRADING AND SHAPING SHOULDERS
- (13) PROPOSED DELINEATORS

* RUMBLE STRIPS (16") WIDE PER STANDARD 642001



USER NAME = aquinoma	DESIGNED -	REVISED -				тури	CAL SE	FCTIO	NS		F.A.P. BTF	SECTION	COUNTY	TOTAL	SHEET
	DRAWN -	REVISED -	STATE OF ILLINOIS				W/FOT	TO 0			346	2018-111-RS&SW	LAKE	42	7
PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	DEPARTMENT OF TRANSPORTATION		US 41 (PAK	K AVE.	VVE21	10 0	HANTILLY	BLVD.)			CONTRAC	T NO. 6	2H36
PLOT DATE = 3/18/2019	DATE -	REVISED -		SCALE:	SHEET	OF	SHE	ETS S	TA.	TO STA.		ILLINOIS FED. A	ID PROJECT		

LEGEND

- (1) EXISTING P.C. CONCRETE PAVEMENT, 10"
- (2) EXISTING HMA CONCRETE SURFACE, $\pm 10^{1}/_{2}$ "
- (3) EXISTING COMBINATION CONCRETE CURB AND GUTTER
- (4) EXISTING GRAVEL OR CRUSHED STONE SHOULDER
- (5) EXISTING CONCRETE BARRIER AND CONCRETE BARRIER, SPECIAL
- (6) EXISTING HMA SHOULDER, 10"
- 7 PROPOSED HMA SURFACE REMOVAL, 21/2"
- (8) PROPOSED POLYMERIZED LEVELING BINDER, (MM), IL 4.75, N50, $\frac{3}{4}$ "
- (9) PROPOSED POLYMERIZED HMA SURFACE COURSE STONE MATRIX ASPHALT, 9.5, N80, $1\rlap{K}_4{}^{\prime\prime}{}^\prime\prime$
- (10) PROPOSED HMA SURFACE COURSE, MIX "D" N70, $1\frac{3}{4}$ "
- (1) PROPOSED AGGREGATE WEDGE SHOULDERS, TYPE B
- (12) PROPOSED GRADING AND SHAPING SHOULDERS
- (13) PROPOSED DELINEATORS



LOT DATE = 3/18/2019

DATE

REVISED

SCALE: 1 = 50 SHEET OF SHEETS STA. 10+45.83 TO STA. 35+00



PLOT DATE = 3/18/2019

DATE

REVISED

SCALE: 1"= 50 SHEET

OF SHEET



PI	LAN	RTE.	SECT	ION		COUNTY	SHEETS	NO.
ARK AVE - CHANTILLY BLVD)		346	2018-111	-RS&SW	1	LAKE	42	10
~	IR AVE CHANTLET BEVD.					CONTRACT	NO. 62	2H36
S	STA. 35+00 TO STA. 65+00			ILLINOIS	FED. A	ID PROJECT		



2	LAN		F.A.P. RTE	SECTION			COUNTY	TOTAL SHEETS	SHEET NO.
				2018-111	I-RS&SW	'	LAKE	42	11
	RK AVE CHANTILLY BLVD.)						CONTRACT	NO. 62	2H36
5	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		





PLOT DATE = 3/18/2019

DATE

REVISED

SCALE: 1"= 50 SHEET OF SHEETS

PR PF	OPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 2 ½" ROPOSED HOT-MIX SURFACE COURSE, MIX "D", N70, 1 ¾" POSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 3/	4 •
HOD), IL-4.75, N50 SE, SMA, 9.5, N80 JRFACE REMOVAL	8 	

PROPOSED PAVEMENT MARKINGS LEGEND

				+
AN	F.A.P. BTE	SECTION	COUNTY	TOTAL
(12) PREFORMED PLASTIC PAVEMEN TYPE D INLAID 6", 2' DASH - WHITE (TYP.)	IT MARKING 6' SPACE,			
WHILE (ITP)				
PREFORMED PLASTIC PAVEMEN (1) TYPE D, INLAID 8", 3' DASH - 9 MULTE (TYP)	T MARKING 9' SPACE,			
(10) THERMOPLASTIC PVMT. MARKIN	IG LETTERS	AND SYMBOLS		
(9) THERMOPLASTIC PVMT. MARKIN	IG 24", STOF	P BAR, WHITE (TYP	.)	
(8) THERMOPLASTIC PVMT. MARKIN (TYP.) - SEE DETAIL TC-24 FOR	IG 12", DIAG SPACING	ONALS, YELLOW		
 THERMOPLASTIC PVMT. MARKIN SEE DETAIL TC-12 FOR SPACE 	NG 12", CHE NG	VRONS, WHITE (TY	P.)	
6 THERMOPLASTIC PVMT. MARKIN	NG 8", LINE,	WHITE (TYP.)		
5 PREFORMED PLASTIC PAVEMEN TYPE D, INLAID 4", 2' DASH - 6 WHITE (TYP)	T MARKING 5' SPACE,			
(4) THERMOPLASTIC PVMT. MARKIN	IG 6", LINE,	WHITE (TYP.)		
(3) THERMOPLASTIC PVMT. MARKIN	IG 4', SOLID	EDGE LINE, YELL	OW (TYP.)	
2 THERMOPLASTIC PVMT. MARKIN	IG 4', SOLID	EDGE LINE, WHIT	E (TYP.)	
1 TYPE D INLAID 5", 10' DASH - WHITE (TYP.)	30' SPACE,			

PLAN	F.A.P. RTE	SECT	TION		COUNTY	TOTAL SHEETS	SHEET NO
RK AVE _ CHANTILLY BLVD)	346	2018-111	I-RS&SW		LAKE	42	13
AIR AVE CHANTLET BEVD.					CONTRACT	NO. 62	2H36
S STA. 79+00 TO STA. 72+00			ILLINOIS	FED. AI	ID PROJECT		



LOT DATE = 3/18/2019

DATE

REVISED

SCALE: 1"= 50' SHEET

IF HWY) (W PARK AVE - CHANTILLY BLVD)		346	2018-111-RS&SW		LAKE	42			
	1.) (M. I AI		ANTIEET BEVD.)				CONTRACT	NO. 6	2H
OF SHEETS STA. 92+00 TO STA. 114+25.00				ILLINOIS F	ED. Al	D PROJECT			
									_

								639.1259	onc s.w.	
REFERENCE BENCH	HMARK FLEV 00.0				LEGEND		PROPOSED S	IDEWALK		
BENCHMARK : XX	IN XX OF XX			$\times \times_{*} \times \times'$	EXISTING LENGTH		DETECTABLE	WARNINGS		
LOCATION : ×× ×	×			()	EXISTING ELEVATION/SLOPE		SIDEWALK RI REPLACE W/	EMOVAL TOPSOIL & SOD		
	USER NAME = aquinoma PLOT SCALE = 10.0000 ' / in. PLOT DATE = 2/5/2019	DESIGNED PLP 10/04/2016 DRAWN - PLP 10/04/2016 CHECKED - - DATE - -	REVISED - PLF REVISED - PLF REVISED - PLF REVISED - PLF	11/07/2016 08/11/2017 09/14/2017 01/10/2018	STATE OF ILLI DEPARTMENT OF TRAI	NOIS NSPORTA	TION	US 41/SKOKIE SCALE: SH	SIDEWALK E HIGHWAY – W EET OF S	DETA PAR

AIL PLAN	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO
RK AVE TO CHANTILLY BLVD	346	2018-111-RS&SW	LAKE	42	15
IN AVE TO CHANTLET DEVD			CONTRACT	NO. 62	2H36
S STA. TO STA.		ILLINOIS FEE	AID PROJECT		

					<u>legend</u>		PROPOSED S	SIDEWALK		
REFERENCE BENC	HMARK ELEV UU.U			$\times _{\mathfrak{a}} \times '$	EXISTING LENGTH	00000 00000				
BENCHMARK : ××	IN xx OF xx				PROPOSED SIDE CURB	00000	DETECTABLE	- WARNINGS		
LOCATION : ×× >	××			()	EXISTING ELEVATION/SLOPE		SIDEWALK R REPLACE W/	REMOVAL /TOPSOIL & SOD	,	
	USER NAME = aquinoma	DESIGNED - PLP 10/04/2016	REVISED - PL	P 11/07/2016					SID	
		DRAWN - PLP 10/04/2016	REVISED - PL	P 08/11/2017	STATE OF ILL	INOIS				
	PLOT SCALE = 10.0000 / in.	CHECKED -	REVISED - PL	P 09/14/2017	DEPARTMENT OF TRAI	NSPORTA	TION	US 41/SKUK	JE HIGHWA	Y - W PAR
	PLOT DATE = 2/5/2019	DATE	REVISED PL	P 01/10/2018				SCALE	SHEET	OF SHEETS

AIL PLAN				SECT	SECTION			TOTAL SHEETS	SHEET NO.
REAVE TO CHANTILLY BLVD		346	2018-111	l-RS&SW	LAKE	42	16		
		CHANTLET BEVD					CONTRACT	NO. 62	2H36
S	STA.	TO STA.			ILLINOIS	FED. A	ID PROJECT		
2	STA. TO STA.				ILLINUIS	FED. A	ID PROJECT		

					<u>legend</u>		PROPOSED S	SIDEWALK			
REFERENCE BENC	HMARK ELEV UU.U			$\times \times_{\circ} \times \times'$	EXISTING LENGTH	0 0 0 0 0 0 0 0 0 0					
BENCHMARK : ××	IN xx OF xx				PROPOSED SIDE CURB	00000	DETECTABLE	WARNINGS			
LOCATION : ×× >	<×			()	EXISTING ELEVATION/SLOPE		SIDEWALK R REPLACE W/	REMOVAL /TOPSOIL & SOD			
	USER NAME = aquinoma	DESIGNED - PLP 10/04/2016	REVISED -	PLP 11/07/2016					SIL		Δ
		DRAWN - PLP 10/04/2016	REVISED -	PLP 08/11/2017	STATE OF ILL	INOIS					
PLOT SCALE = 10.0000 / in.	PLOT SCALE = 10.0000 / in.	CHECKED -	REVISED -	PLP 09/14/2017	DEPARTMENT OF TRA	NSPORTA	TION	US 41/SKUK	IE HIGHWA	$\mathbf{Y} = \mathbf{W} \mathbf{PAF}$	۱
	PLOT DATE = 2/5/2019	DATE -	REVISED	PLP 01/10/2018	1			SCALE	SHEET	OF SHEET	S

SHEET NO.
17
H36
5

1	AL	IGNMENT CO	DRDINATES - US	ROUTE 41
	POINT	STATION	NORTHING	EASTING
	PT	30+45.54	2004382.4128	1125270.2235
	PC	39+41.93	2005219.6527	1124950.0050

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ONTROL POINT_#1	TEMPORARY BENCHMARK A	<u>CONTROL POINT_#3</u>
K NAIL ON ASHPALT SHOULDER	CUT SQUARE ON TOP OF SOUTHWEST CORNER OF WEST HEADWALL UNDER US ROUTE 41.	PK NAIL ON ASHPALT SHOULDER
TA 33+48.69 37.95' LT	ABOUT 4500 FEET SOUTH OF DEERFIELD ROAD,	STA 32+47.42 39.24' LT
2004652.0000	STA 33+00.57, 43.06' LT	N: 2004556.9510 E: 1125161.4540
L 643.24	EL 643.52	EL: 643.44



	USER MARE = RG W	DESIGNED - JH	REVISED			USI	ROUTE 4	1 (SKOKI	E HIGHWAY)	F.A.P HTE	SECTION	COUNTY	SHEET	SHEET
		DRAWN • MS	REVISED -	STATE OF ILLINOIS	ALIGNMENT, TIES, AND BENCHMARK		, , , , , , , , , , , , , , , , , , , ,	346	2018-111-R5&SW	LAKE	142	* 18			
	PLOT SCALE = 100.0000 / in.	CHECKED - JH	REVISED	DEPARTMENT OF TRANSPORTATION			IN			CONTRAC	T NO.	62H36			
Ĩ	PLOT DATE = 3/15/2019	DATE - SPLANDATES	REVISED		SCALE	SHEET	OF	SHEETS	STA	TO STA.		TEEHIOIS FED. /	IO PROJECT		

FIELD WORK WAS PERFORMED DURING MAY 2018.

BY GPS-RTK OBSERVATION AT CONTROL POINT #1.

NOTES:

1988 (NAVD88).

PLANE COORDINATE SYSTEM, EAST ZONE (NAD 83-CORS ADJUSTMENT). ELEVATIONS REFERENCED TO THE NORTH AMERICAN VERTICAL DATUM OF

COORDINATES PROVIDED ARE REFERENCED TO THE ILLINOIS STATE

EQUIPMENT USED WAS A TRIMBLE R10 ANTENNA (S/N 5316434391) AND A TRIMBLE TSC 3 DATA COLLECTOR EQUIPPED WITH A CELLULAR CONNECTION.

HORIZONTAL AND VERTICAL CONTROL WAS ESTABLISHED BY GPS-RTK METHODS USING THE ONLINE POSITIONING USER SERVICE (OPUS) AND OPERATED BY THE NATIONAL GEODETIC SURVEY (NGS).

DOUBLE OBSERVATIONS WERE MADE TO EACH OF THE TWO SURVEY CONTROL POINTS AND RESULTS AVERAGED AFTER CONFIRMING OBSERVATIONS WERE IN ACCORDANCE WITH GPS-RTK OBSERVATIONS.

VERTICAL CONTROL ESTABLISHED BY RUNNING LEVELS TO SURVEY CONTROL AND BENCHMARK USING ELEVATION OF 643.24 FEET OBTAINED

2

SCALE IN FEET

	20	8					•			
			36" X 24" PAVED SHOULDER	CULVERT REPAIR (SEE STRUCTUR REMOVAL (44000250, 21 SQ YD	AL PLAN	15)				
			HOT-MIX ASPHALT SHOUL AGGREGATE SUBGRADE IMPROVI	DERS, 10° (48203037, 21 SQ YD EMENT 12° (30300112, 21 SQ YD					GUARDRAIL REMOVAL (63200310, 3	7.5 FT)
╞	EX ROW					-	<u></u>		WEAK POST GUARDRAIL ATTACHED	TO CULVERT CASE IV (63000053, 31.25 FT)
							Υ ^γ			
					+951		40 44 40 34 40 11 11 11	+21		
ŀ	50'									
					•		11 14 15 13 10 13 11 11 11 11			SB US ROUTE 41
							11 11 12 11 13 11 14 11 15 11 16 11			
-										ــــــ (ت US ROUTE 41
						<u>_</u> 3				
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r.pb.np	-						11 51 11 59 11 69 11 69 11 69 10 69 10 69 11 51 11			
36-shi-desi							· · · · · · · · · · · · · · · · · · ·			
et \$\D162H							11 CO 51 DO 00 CO 00 TO 00 TO			
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De sign/Pre	EX ROW									
IverNDCM.										
US 41 Cr										
7-006 WO										
DI PTB 18										
TOOL TO										
: 7:18039		USER NAME = RUJA	DESIGNED - JH	REVISED						US ROUTE 41 (SKOK
FILE NAME	i	PLOT SCALE = 20.0000 ' / in.	DRAWN - MS CHECKED - JH	REVISED		DEPA	S RTMI	ENT OF	FRANSPORTATION	REMOVAL AND PROPOSED
		APTI PALE # 317115-14	SALE - SELANDALES	n ye e dage be	1					and an arrest and arrest



TRAFFIC CONTROL GENERAL NOTES

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1. THE TRAFFIC CONTROL DEPICTED HERE IN IS THE MINIMUM REQUIREMENT. ADDITIONAL TRAFFIC CONTROL DEVICES AS SPECIFIED IN THE HIGHWAY STANDARDS, AS SHOWN IN THE INDEX OF SHEETS, AND AS SHOWN IN THE SPECIAL PROVISIONS SHALL BE PLACED BY THE CONTRACTOR TO THE SATISFACTION OF THE ENGINEER, ALL TRAFFIC CONTROL DEVICES SHALL BE CONSIDERED INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION (SPECIAL) UNLESS OTHERWISE INDICATED WITHIN THESE GENERAL NOTES, PLANS, OR SPECIAL PROVISIONS.

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- 2. WORK ZONE SPEED LIMIT IS 45 MPH.
- 3. TWO 11-FOOT-WIDE SOUTHBOUND LANES MUST REMAIN OPEN AT ALL TIMES.
- 4. TRAFFIC CONDITIONS, ACCIDENTS, AND OTHER UNFORESEEN EMERGENCY. CONDITIONS MAY REQUIRE THE ENGINEER TO RESTRICT, MODIFY, OR REMOVE LANE CLOSURES OR CHANNELIZATION SHOWN IN THE PLANS. THE CONTRACTOR SHALL PROMPTLY RESPOND AT THE TIME OF NOTIFICATION BY THE ENGINEER FOR MAINTENANCE OF TRAFFIC CONTROL DEVICES.
- 5. DRUMS OR TYPE II BARRICADES SHALL BE PROVIDED AS SHOWN IN THE PLANS AND SPACED 50 FEET CENTER TO CENTER IN TANGENTS, 20 FEET. CENTER TO CENTER IN TAPERS, AND 10 FEET CENTER TO CENTER IN RADII.
- ALL EXISTING SIGNS THAT CONFLICT WITH THE TRAFFIC CONTROL PLAN SHALL BE COVERED OR REMOVED IN ACCORDANCE WITH ARTICLE 107.26 OF THE STANDARD SPECIFICATIONS.
- 7. ALL EXISTING PAVEMENT MARKINGS WHICH CONFLICT WITH TRAFFIC CONTROL SHALL BE REMOVED.
- 8. ALL RAISED REFLECTIVE PAVEMENT MARKERS WHICH CONFLICT WITH TRAFFIC CONTROL SHALL HAVE THE REFLECTIVE LENSES REMOVED.
- 9. THE CONTRACTOR SHALL CONTACT THE D1 EXPRESSWAY TRAFFIC CONTROL SUPERVISOR AT (847)705-4155 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK OR MAKING CHANGES TO THE SUGGESTED STAGING
- 10 IMMEDIATELY UPON COMPLETING CONSTRUCTION THE CONTRACTOR SHALL REPLACE ALL PAVEMENT MARKINGS, SIGNS, AND RAISED REFLECTORS REMOVED DURING CONSTRUCTION.



TRAFFIC CONTROL TYPICAL SECTION

	USER HARE RGall	DESIGNED - JH	REVISED .		US ROUTE 41 (SKOKIE HIGHWAY)					F.A.P ATE	SECTION	COUNTY	SHEETS	SHEET	
		DRAWN DE MS	REVISED .	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	TRAFFIC CONTROL GENERAL NOTES AND TYPICAL SECTION				346	2018-111-R5&SW	LAKE	72	20		
	PLOT SCALE = 10.0000 1 / In	CHECKED - JH	REVISED -								CONTRAC	T NO. 6	2H36		
	PLOT 04TE = 1/15/2019	DATE - SPLANDATES	REVISED -		SCALE:	SHEET	OF	SHEETS	STA.	TO STA.		ILLINGIS FED-A	ID PHOILCT		



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EROSION CONTROL AND LANDSCAPING GENERAL NOTES

- 1. THE CONTRACTOR SHALL INSTALL PERÍMETER EROSION BARRIER PRIOR TO STRIPPING OF VEGETATION.
- RUNOFF FROM EXCAVATED AREAS SHALL LEAVE THE SITE THROUGH SEDIMENT CONTROL DEVICES SHOWN IN IDOT STD 280001, AND/OR NRCS DETAILS FROM THE MOST RECENT VERSION OF THE ILLINOIS URBAN MANUAL.
- 3. THE CONTRACTOR SHALL SURROUND ANY NECESSARY EARTH STOCKPILES WITH PERIMETER EROSION BARRIER.
- ALL EROSION CONTROL MEASURES SHOULD BE CHECKED WEEKLY AND AFTER EACH RAINFALL 0.5 INCHES OR GREATER. ADDITIONALLY DURING WINTER MONTHS, ALL MEASURES SHOULD BE CHECKED AFTER EACH SNOWMELT.
- 5. STABILIZATION OF DISTURBED AREAS MUST BE INITIATED WITHIN ONE (1) WORKING DAY OF THE TEMPORARY OR PERMANENT CESSATION OF EARTH DISTURBING ACTIVITIES AND SHALL BE COMPLETED AS SOON AS POSSIBLE BUT NO LATER THAN 14 DAYS FROM THE INITIATION OF STABILIZATION OF WORK IN AN AREA.
- 6 ALL WASTE GENERATED AS A RESULT OF THE PROJECT INCLUDING DISCARDED BUILDING MATERIALS, CONCRETE TRUCK WASHOUT, CHEMICALS, LITTER, SANITARY WASTE, OR ANY OTHER WASTE SHALL BE PROPERLY DISPOSED OF AND BE PREVENTED FROM BEING CARRIED OFF THE SITE BY EITHER WIND OR WATER.
- ALL EXPOSED IDLE EARTH, INCLUDING EARTH STOCKPILES, WILL BE SEEDED WITH TEMPORARY EROSION CONTROL SEEDING. THE APPLICATION RATE FOR TEMPORARY EROSION CONTROL SEEDING IS 100 POUNDS PER ACRE FOR THREE APPLICATIONS.
- 8. ALL TEMPORARY EROSION AND SEDIMENT CONTROL MEASURES SHALL BE REMOVED WITHIN 30 DAYS OF ACHIEVING PERMANENT SOIL STABILIZATIO TRAPPED SEDIMENT AND OTHER DISTURBED SOILS RESULTING FROM TEMPORARY MEASURES SHALL BE PROPERLY DISPOSED OF AND THE AREA PERMANENTLY STABILIZED.
- 9. DURING CONSTRUCTION OPERATIONS, IF ANY LOOSE MATERIAL IS DEPOSITED IN THE FLOW LINE OF DRAINAGE STRUCTURES SUCH THAT TH NATURAL FLOW OF WATER IS OBSTRUCTED, THE MATERIAL SHALL BE REMOVED AT THE CLOSE OF EACH WORKING DAY. AT THE CONCLUSION CONSTRUCTION OPERATION, ALL UTILITY STRUCTURES SHALL BE FREE FROM DUST AND DEBRIS. THE WORK SPECIFIED ABOVE WILL NOT BE PAI FOR SEPARATELY BUT SHALL BE INCLUDED IN THE COST OF CONTRACT.



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IE HIGHWAY)	RTE.	SECTION	COUNTY	SHEETS	NO
ANDSCAPING PLAN	346	2018-111-856597	CONTRACT	NO 62	42 H36
S STA _{pp} TO STA.		ILLINGIS + LD AID	1211054		



		4	0	*~~		
LID YELLOW) (78000200, 908 FT)		0 SCALE IN	20 FEET	40	60	
HITE) (78004355, 250 FT)						
000200, 1080 FT)						
				<u></u>	 	
			R •	• -	33+50.00	
32	=====	<u> </u>			E STA	
					H LIN	
e, na lina ann an i na l	att. 1995.	1		• • • • • • • • • • • • • • • • • • • •	MATCI	
				•		
(78004355250 FT) (CONTD)				~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~~		
(78004355_250 FT) (CONTD) 3 FT) (CONTD)		0	20	40	60	
(78004355, 250 FT) (CONTD) B FT) (CONTD)		0 SCALE IN	20 I FEET	40	60	
(78004355_250 FT) (CONTD) 8 FT) (CONTD)		0 SCALE IN	20 1 FEET	40	60	
(78004355, 250 FT) (CONTD) B FT) (CONTD)		0 SCALE IN	20 I FEET	40	60	
(7800-1355, 250 FT) (CONTD) B FT) (CONTD)			20 1 FEET	40	60	
(7800-1355_ 250 FT) (CONTD) B FT) (CONTD)			20 1 FEET 1 FEET 1	40	60	
(7800-1355, 250 FT) (CONTD) B FT) (CONTD)			20 1 FEET	40	60	
(7800-1355_250 FT) (CONTD) B FT) (CONTD)			20 J FEET	40	60	
(7800-1355_250 FT) (CONTD) B FT) (CONTD)			20 1 FEET 1	40	60	
(78004355, 250 FT) (CONTD) B FT) (CONTD)			20 1 FEET	40	60	
(7800-1355_250 FT) (CONTD) B FT) (CONTD)			20 1 FEET ₩ , 39	40	60	
(7800-1355_ 250 FT) (CONTD) B FT) (CONTD) 	F.A.P. 7346 20	0 SCALE IN SECTION SECTION	20 1 FEET 			



The existing structure is a single cell reinforced concrete box culvert. The culvert is 85'-4" in length (out-to-out headwalls). The cell width is approximately 3 ft and height is approximately 2 ft. The structure spans east to west and carries two lanes of northbound and two lanes of southbound traffic for a total of four lanes. A metal quardrail is present on the west side of the culvert. A noisewall is present on the east side of the culvert. Remove and replace 4'-8" of the top slab, sidewalls, headwall, and wingwalls.

18'-0'' 6'-9'' 3'-0'' 6'-9'' 1'-6'' 15'-0" Remove typ. top slab, sidewalls,

headwall, and wingwalls



SCOPE OF WORK:

- 1. Remove the west portion of the top slab, sidewalls, headwall, and wingwalls.
- 2. Construct the west portion of the top slab, sidewalls, headwall, and wingwalls.
- 3. Remove the guardrail and guardrail posts on the west side of the roadway. Install the proposed guardrail on the west side of the roadway (See roadway plans).
- 4. Remove and construct the portions of HMA pavement and shoulder on the west side of the roadway

TOTAL BILL OF MATERIAL

ITEM	UNIT	TOTAL
Porous Granular Embankment	Cu. Yd.	13
Concrete Removal	Cu. Yd.	2.7
Structure Excavation	Cu. Yd.	27
Reinforcement Bars, Epoxy Coated	Pound	980
Temporary Soil Retention System	Sq. Ft.	241
Expansion Bolts, $\frac{3}{4}$ "	Each	15
Concrete Box Culverts	Cu. Yd.	3.9
Geocomposite Wall Drain	Sq. Yd.	3
Membrane Waterproofing System for Buried Structures	Sq. Yd.	3



		PLOT DATE	=	
19	2.46.48 PM			

EFK•Moen

Civil Engineering Design

GENERAL NOTES:

- 1. Reinforcement bars designated (E) shall be epoxy coated.
- 2. Expansion bolts shall be $\frac{3}{4}$ " Φ hooked bolts. Hooked bolts shall extend a minimum of 9" into new concrete and a minimum of 5" into existing concrete.
- 3. Plan dimensions and details relative to existing plans are subject to nominal construction variations. The Contractor shall field verify existing dimensions and details affecting new construction and make necessary approved adjustments prior to construction or ordering of materials. Such variations shall not be cause for additional compensation for a change in scope of the work. However, the Contractor will be paid for the quantity actually furnished at the unit price bid for the work.
- 4. A cantilevered sheet piling design does not appear feasible and additional members or other retention systems may be necessary. The contractor shall submit a temporary soil retention system design including plan details and calculations for review and acceptance by the Engineer.
- 5. Existing reinforcement shall be cleaned and incorporated into the new construction. Cost included with Concrete Removal.

INDEX OF SHEETS

- General Plan and Details
- Box Culvert Structure Removal and Excavation
- 3 Box Culvert Repair Details

DESIGN STRESSES FIELD UNITS

f'c = 3,500 psi fy = 60,000 psi (Reinforcement)

DESIGN SPECIFICATIONS

2002 AASHTO Standard Specifications for Highway Bridges, 17th Edition





RAINAGE DITCH		SECTION			COUNTY	TOTAL SHEETS	SHEET NO
		2018-111-RS&SW			LAKE	40	24
ND DETAILS					CONTRA	CT NO. 6	62H36
3 SHEETS			ILLINOIS	FED. All	D PROJECT		



The Contractor shall field verify exact location of all existing utilities prior to construction and take precautions not to damage existing utilities during excavations, construction or other underground work. Any such damage shall be repaired by the Contractor at no additional cost-

Existing reinforcement shall be cleaned, straigtened and incorporated into the new construction. Any reinforcement bars that are damaged during concrete removal shall be replaced with an approved bar splicer or anchorage system. Cost included with Concrete Removal.

	USER NAME .	DESIGNED - JSR	REVISED .	
EFK•Moen		CHECKED . CDL	REVISED -	STATE OF ILLINOIS
Civil Engineering Design	PLOT SCALE .	DRAWN - JSR	REVISED -	DEPARTMENT OF TRANSPORTATION
	PLOT DATE .	CHECKED COL	REVISED -	

SHEET 2 OF 3

US ROUTE 41 OVER DRAINAGE DITCH	F,A.P. RTE.	SECTION	COUNTY	SHEETS	SHEET NO.			
VERT STRUCTURE REMOVAL AND EXCAVATION	346	2018-111-RS&SW	LAKE	42	25			
			CONTR/	ACT NO. 6	52H36			
SHEET 2 OF 3 SHEETS	TLUNOIS FED AID PROJECT							

Temporary Soil Retension System



Bar	No.	Size	Length	Shape
a(E)	7	#4	4'-8"	<u>ب</u>
h(E)	14	#5	4'-8"	
h2(E)	12	#6	17'-8"	
<u>h3(E)</u>	20	#6	10"-7"	
V(E) VI(E)	14 32	#4	2'-2" 5'-2"	
s(E)	9	#6	9'-0"	
Reinforce Epoxy Co	ement Ba bated	rs,	Pound	980
Concrete	Box Cuh	verts	Cu.Yd	3.9
Expansio	n Bolts,	34"	Each	15
Porous G Embankm	ranular ent	Cu, Yd.	13	

RAINAGE DITCH AIR DETAILS		SECTION		COUNTY	TOTAL SHEETS	SHEET NO.
		2018-111-RS&SV	1	LAKE	42	26
				CONTRA	CT NO. 6	52H36
SHEETS		ILLINCIS	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 = aquinoma	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04			DETAILS FOR	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
pw://IL084EBIDINTEG.1111no1s.gov:PWIDOT/Doc	uments\IDOT Offices\District 1\Projects\D104	11 DRDAWIN ata\Design\DistStd.dgn	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS EDAMES AND LINE AD USE AD		346	2018-111-RS&SW	LAKE	42	27	
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - R. BORO 03-09-11	DEPARTMENT OF TRANSPORTATION	DEPARTMENT OF TRANSPORTATION			BD600-03 (BD-8)	CONTRACT	NO. (2H36
	PLOT DATE = 2/5/2019	DATE - 10-25-94	REVISED - R. BORO 12-06-11		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. R	OAD DIST. NO. 1 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^{\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 SUPEACE 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 ARE IN INCHE	S (MILLIMETERS) UNLESS OTHERWISE SHOWN
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FILE NAME =	USER NAME = aquinoma	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98			PAVEMENT PATCHING FOR		F.A.P. RTE.	SECTION	COUNTY	TOTAL S SHEETS	HEET NO.
pw:\\ILØ84EBIDINTEG.1111no15.gov:PWIDOT\Do	cuments\IDOT_Offices\District_l\Projects\D104	11 0RAWN ata\Design\DistStd.dgn	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS				346	2018-111-RS&SW	LAKE	42	28
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HIMA SUKFACED PAVEMENT			BD4	00–04 (BD–22)	CONTRACT	NO. 62	н36
	PLOT DATE = 2/5/2019	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROAD D	IST. NO. 1 ILLINOIS FED. A	ID 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.

	ALL OTHE	DIMENSIONS ARE IN INCHES RWISE SHOWN.	(MILLIMETERS) UNLES	s
OR	F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEE NO
	740	0010 111 000 01	1.445	40	20



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 Placement		F.A.P RTE	·		SEC	TION			COUNTY	TOTAL SHEETS	SHEET NO.	
		346		2018-111-RS&SW				LAKE	42	29		
			BD6	600-0	6 (I	BD-24)			CONTRACT	NO. 62	2H36	
	STA.	TO STA.	FED.	ROAD D	IST. N). 1	ILLINOIS	FED.	AID	PROJECT		



AND ETAILS		SECTION				COUNTY	TOTAL SHEETS	SHEET NO.
		2018-111-RS&SW				LAKE	42	30
		BD400-05	BD32		0	CONTRACT	NO. 6	2Н36
STA. TO STA.	FED. R	OAD DIST. NO. 1	ILLINOIS	FED.	NID F	PROJECT		



<u>hma taper at</u> EDGE OF P.C.C PAVEMENT

HMA SURFACE		LEVEL ING BINDER	
MIX	THICKNESS	THICKNESS	✤ MILLING AT GUTTER FLAG
C OR D	11/2 (38)	1 (25)	11⁄4 (33)
E	1 ³ ⁄4 (44)	3⁄4 (19)	1 ¹ / ₂ (38)

FILE NAME =	USER NAME = aquinoma	DESIGNED - R. SHAH	REVISED - A. ABBAS 05-05-9	·	ΗΜΑ ΤΔΡΕΒ ΔΤ	F.A.P SECTION	COUNTY TOTAL SHEET
pw:\\IL084EBIDINTEG.1111no15.gov:PWIDOT\Do	cuments\IDOT_Offices\District_I\Projects\D104	411 9RCAWN ata\Design\ UIS tStd.dgn	REVISED - E. GOMEZ 12-21-00	STATE OF ILLINOIS		346 2018-111-RS&SW	LAKE 42 31
	PLOT SCALE = 100.0000 ' / in.	CHECKED - A. ABBAS	REVISED - R. BORO 01-01-07	DEPARTMENT OF TRANSPORTATION	EDGE OF P.U.U. PAVEIVIEINI	BD400-06 (BD33)	CONTRACT NO. 62H36
Default	PLOT DATE = 2/5/2019	DATE - 09-10-94	REVISED - JP CHANG 07-08-16		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.	ILLINOIS FED. /	AID PROJECT

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





① EXISTING CONFLICTING PAVEMENT MARKING LINES SHALL BE REMOVED. PAVEMENT MARKING REMOVAL SHALL NOT BE REQUIRED FOR SINGLE LANE WEAVES UNDER 4 DAYS IN DURATION.

© CONTINOUS REFLECTIVE TEMPORARY PAVEMENT MARKING TAPE SHALL BE PLACED THROUGHOUT THE TAPER AND FOR 300' (90 m) ALONG SIDE THE WORK AREA WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN DAYS. THE LEFT EDGE LINE SHALL BE YELLOW AND THE RIGHT EDGE LINE SHALL BE WHITE. FOR MULTI-LANE WEAVES LANE LINES SHALL BE 5 INCH, 10'-30' (3 m-9 m) SKIP DASH, WHITE.

(3) PLASTIC DRUMS WITH STEADY BURN LIGHTS AT 50' (15 m) C-C SPACING IN TAPERS AND 100' (30 m) C-C SPACING IN TANGENTS.

(4) ALL SIGNS SHALL BE POST MOUNTED IF THE CLOSURE TIME EXCEEDS FOUR DAYS.

(5) TYPE III BARRICADES MAY BE OMMITTED FOR SINGLE-LANE WEAVES UNDER 24-HOURS IN DURATION. W1-6 SIGNS WILL STILL BE REQUIRED. IF THE WIDTH OF OFFSET IS LESS THAN 6' THEN THE TYPE III BARRICADE WITH ATTACHED ARROW SIGN PANEL CAN BE

WHEN THE LENGTH OF THE SHIFTED SEGMENT (DISTANCE BETWEEN WEAVE POINTS) IS LESS THAN 1500', DOUBLE REVERSE CURVE SIGNS (W24-1) SHOULD BE USED INSTEAD OF THE REVERSE CURVE (W1-4) SIGNS. ARROWS ON THE 4'X8' "ALL TRAFFIC" SIGNS SHALL BE

(7) THE NUMBER OF ARROWS ON THESE SIGNS SHALL MATCH THE NUMBER OF LANES OPEN TO TRAFFIC.

SYMBOLS

- Ŷ DIRECTION OF TRAFFIC
- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- TYPE II BARRICADE OR DRUM WITH MONO-DIRECTIONAL ₫ STEADY BURNING LIGHT

TEMPORARY CONCRETE BARRIER WALL

 \boxtimes IMPACT ATTENUATOR

W24-1-48

 $\widehat{}$

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

ETAILS FOR LTI–LANE WEAVE		F.A.P. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.		
		346	2018-111-RS&SW	LAKE	42	32A		
		TC-09 CONTRA			NO. 6	2H36		
	STA.	TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT					

		Image: construction of the construc	PE I OR TYPE II BARRICADES WITH ONE ASHING AMBER LIGHT ON EACH, OR PE III BARRICADES WITH TWO FLASHING (BER LIGHTS ON EACH, (SEE NOTE 1)
	 SIDE ROAD WITH A SPEED SHOWN ON THE DRAWING / O) ONE "ROAD CONSTRI- MOUNTED ON IT APP b) THE CLOSED PORTIC BLOCKING WITH TYP THE CROSS SECTION SIDE ROAD WITH A SPEED AS SHOWN ON THE DRAWIN O) ONE "ROAD CONSTRI- FLASHER MOUNTED O OF THE MAIN ROUTE b) THE CLOSED PORTIC BLOCKING WITH TYP OF THE CLOSED PORTIC BLOCKING WITH TYP OF THE CLOSED PORTIC SPACING DURING DAY OPE IN HEIGHT. WHEN THE SIDE ROAD LIE SIGNING AND THE WORK Z BE USED IN LIEU OF THE 	 LIMIT OF 40 MPH (60 km/h) OR LESS AS IND AS DIRECTED BY THE ENGINEER: S. WHEN WORK IS FOLLOW THE AN AROW (M6-1 O NO LONGER COL NO LONGER COL NO F THE MAIN ROUTE SHALL BE PROTECTED BY E I, TYPE II OR TYPE III BARRICADES, 1/3 OF I OF THE CLOSED PORTION. LIMIT GREATER THAN 40 MPH (60 km/h) IG AND AS DIRECTED BY THE ENGINEER: JCTION AHEAD" SIGN 48 × 48 (1.2 m × 1.2 m) WITH A ON IT APPROXIMATELY 500' (150 m) IN ADVANCE IN OF THE MAIN ROUTE SHALL BE PROTECTED BY E III BARRICADES, 1/2 OF THE CROSS SECTION RTION. TED FOR BARRICADES OR DRUMS AT HALF THE RATIONS. CONES SHALL BE A MINIMUM OF 28 (710) S BETWEEN THE BEGINNING OF THE MAINLINE ONE, A SINGLE HEADED ARROW (M6-1) SHALL DOUBLE HEADED ARROW (M6-4). 	BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, PPLICABLE STANDARD(S). THE DIRECTIONAL IR M6-4) SHALL BE COVERED OR REMOVED WHEN INSISTENT WITH THE TRAFFIC CONTROL SET-UP. ING SIGNS ARE TO BE OMITTED ON DRIVEWAYS WISE SPECIFIED IN THE PLANS OR BY THE CONTROL AND PROTECTION FOR SIDE ROADS, , AND DRIVEWAYS SHALL BE INCLUDED IN THE IFIED TRAFFIC CONTROL STANDARDS OR ITEMS.
ILLE NAME = USER NAME = aquinome DESIGNED - L.H.A. REVISED - A. HOUSEH 10-15-96 wat\\ll@84EBIDINTEG.illinois.gov/PWIDDT\op uments\LDDT Offices\District 1\Projects\District 1\Projects\District 1\Projects\District 1\Projects\District 1\Projects\District 0410 PXWWs to\Design\District.dogn REVISED - A. HOUSEH 10-15-96 PLDT SCALE = 100.0000 '/ in. CHECKED - REVISED - A. SCHUETZE 07-01-13 PLot Date = 2/5/2019 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.	UNLESS OTHERWISE Shown. F.A.P RTE. SECTION COUNTY TOTAL SHEETS SHEET NO. 346 2018-111-RS&SW LAKE 42 33





FILE NAME =	USER NAME = aquinoma	DESIGNED -	REVISED	- T. RAMMACHER 09-19-94				тури		ATIONS		F.A.P. RTE.	SECTION	COUNTY	TOTAL	SHEET
pw://ILØ84EBIDINTEG.1111no1s.gov:PWIDOT/Do	cuments\IDOT_Offices\District_l\Projects\D104	11 9RCAWN ete\Design\DistStd.dgn	REVISED	-T. RAMMACHER 03-12-99	STATE OF ILLINOIS					DE (ENOW		346	2018-111-RS&SW	LAKE	42	34
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED	-T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	naijed i	NEFLECTIV	C FAVEIVI		-N3 (3NUVV-	PLOW RESISTANT)		TC-11	CONTRACT	T NO. 6	2H36
	PLOT DATE = 2/5/2019	DATE -	REVISED	- C. JUCIUS 09-09-09		SCALE: NONE	SHEET N	10.1 OF 1	SHEETS	STA.	TO STA.	FED. ROAD	D DIST. NO. 1 ILLINOIS FED.	AID PROJECT		

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.

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	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
EWAYS	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
ULL & .4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
N ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW	10'(3 m) LINE WITH 30'(9 m) SPACE FOR SKIP-DASH 59'(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 STOPPINO POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
TH NALS USED FOR MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
2 (300) 5°	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))
VERSE 6' (1.8 m) 00)	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m ²) EACH "X"=54.0 SO. FT. (5.0 m ²)
	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	COUNTY	SHEET NO.			
T MARKINGS S STA. TO STA.		346	2018-111-RS&SW			LAKE	42	37	
		TC-13			CONTRACT	NO. 6	2H36		
		TO STA.			ILLINOIS	FED. AI	D 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 = aquinoma	REVISED - T. RAMMACHER 09-08-94	REVISED - R. BORO 09-14-09		TRAFFIC CONTROL AND PROTECTION AT TURN BAYS	F.A.P SECTION	COUNTY TOTAL SHEET SHEETS NO.
pw:\\IL084EBIDINTEG.1111no1s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D104	411RE0ADSE000\Design\Aist\$088541 11-07-95	REVISED - A. SCHUETZE 07-01-13	STATE OF ILLINOIS		346 2018-111-RS&SW	LAKE 42 38
	PLOT SCALE = 100.0000 ' / in.	REVISED - A. HOUSEH 10-12-96	REVISED - A. SCHUETZE 09-15-16	DEPARTMENT OF TRANSPORTATION	(TO REMAIN OPEN TO TRAFFIC)	TC-14	CONTRACT NO. 62H36
Default	PLOT DATE = 2/5/2019	REVISED - T. RAMMACHER 01-06-00	REVISED -		SCALE: NONE SHEET 1 OF 1 SHEETS STA. TO STA.	ILLINOIS FED.	AID PROJECT



SCALE: NONE SHEET NO. 1 OF 1 SHEETS

G LETTERS AND SYMBOLS		F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
		346	2018-111-RS&SW	LAKE	42	39	
				TC16	CONTRACT	NO. 6	2H36
STA. TO STA.				DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT		



FILE NAME = pw:\\IL084EBIDINTEG.illinois.gov:PWIDOT\Do	USER NAME = aquinoma cuments\IDOT Offices\District l\Projects\D104	DESIGNED - 11 DRCAWIN ata\Design\ DiWLSt d.dgn	REVISED - S.P.B. 01-07 REVISED - S.P.B. 12-09	STATE OF ILLINOIS		TRAFFIC CONTROL DE				
	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - M.D. 06-13	DEPARTMENT OF TRANSPORTATION	2001	DER CLOSOR	IES AN	ID PAR		
Default	PLOT DATE = 2/5/2019	DATE – 11-96	REVISED - M.D. 01-18		SCALE: NONE	SHEET 1 C	JF 1	SHEETS		

TC--17 CONTRACT NO. 62H36 STA. TO STA. TULINOIS FED ALD PROJECT



REVISED - C. JUCIUS 01-31-07

PLOT DATE = 2/5/2019

DATE

0.	AD		F.A.P. RTE.	SECTION	COUNTY	COUNTY TOTAL SHEETS			
		346	2018-111-RS&SW	LAKE	42	41			
A SIGN				TC-22 CONTRACT NO. 62H3					
STA. TO STA.			FED. R	DAD DIST. NO. 1 ILLINOIS FED. AI	D PROJECT				



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			F.A. RTE	P.	SECTION					COUNTY	TOTA SHEET	SHEE
		346		2018-111-RS&SW				LAKE	42	42		
VAY RESURFACING						TS07				CONTRACT	NO.	62H36
STA. TO STA.		FED.	ROAD	DIST.	NO. 1	ILLINOIS	FED.	AID	PROJECT			