1-18-13 LETTING ITEM 106

STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

FOR INDEX OF SHEETS, SEE SHEET NO. 2

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PROPOSED HIGHWAY PLANS

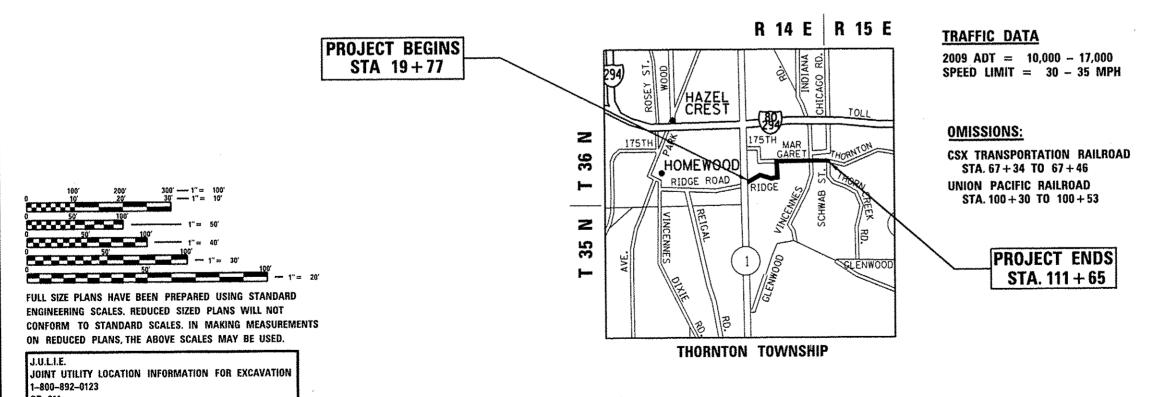
PROJECT LOCATED IN THE VILLAGES OF HOMEWOOD AND THORNTON

F.A.U. 1620: RIDGE RD. & MARGARET ST.
RIDGE RD. FROM IL 1 (HALSTED ST.) TO MARGARET ST.
MARGARET ST. FROM RIDGE RD. TO SCHWAB ST.

PROJECT: HO-1620(050)
SECTION: 44-RS-2

RESURFACING (3P)
COOK COUNTY

C-91-106-11



GROSS LENGTH OF PROJECT = 9188 FEET = 1.74 MILES

NET LENGTH OF PROJECT = 9152 FEET = 1.73 MILES

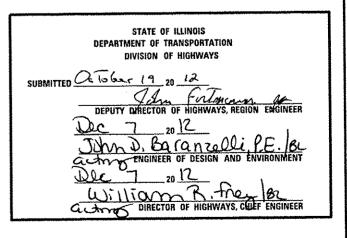
CONTRACT NO. 60M39

PROJECT ENGINEER: JENPAI CHANG (847) 705-4432

PROJECT MANAGER: KEN ENG (847) 705-4247

D-91-106-11





PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS:

HEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS, GENERAL NOTES, AND STATE STANDARDS
3	SUMMARY OF QUANTITIES
4-5	EXISTING AND PROPOSED TYPICAL SECTIONS
6-9	ROADWAY AND PAVEMENT MARKING PLAN
10-12	DETECTOR LOOP REPLACEMENT PLAN
13	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
14	PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
15	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (80-24)
16	BUTT JOINT AND HMA TAPER DETAILS (BD-52)
17	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-IO)
18	TYPICAL APPLICATIONS - RAISED REFLECTIVE PAYEMENT MARKERS (SHOW-PLOW RESISTANT) (TC-II)
19	DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC-13)
20	TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) (TC-14)
21	PAYEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
22	ARTERIAL ROAD INFORMATION SIGN (TC-22)
25	DISTRICT ONE STANDARD TRAFFIC SIGNAL DESIGN DETAILS - SHEET 1 (TS-05)
24	DISTRICT ONE - DETECTOR LOOP INSTALLTION - DETAILS FOR ROADWAY RESURFACING (TS-O7)

STATE STANDARDS:

000001-06	STANDARD SYMBOLS, ABBREVIATION AND PATTERNS
442201 - 03	CLASS C AND D PATCHES
604001-03	FRAME AND LIDS, TYPE 1
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701427 - 01	LANE CLOSURE, MULTILANE, INTERMITTENT OR MOVING OPERATIONS. FOR SPEEDS < 40 MPH
701501 - 06	URBAN LANE CLOSURE, 2L. 2W. UNDIVIDED
701701 - 08	URBAN LANE CLOSURE, MULTILANE INTERSECTION
701901 - 03	TRAFFIC CONTROL DEVICES

GENERAL NOTES!

BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "JULLIE," AT (800) 892-0123 OR 811 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE AND GAS UTILITIES, 48 HOURS NOTIFICATION IS REQUIRED.

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES AND THE VILLAGES OF HOMEWOOD AND THORNTON.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OF FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.

ANY PAVEMENT MARKINGS AND RAISED REFLECTIVE PAVEMENT MARKERS OBLITERATED BY MILLING AND RESURFACING OPERATIONS ON SIDE STREETS AND ENTRANCES SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT,

ALL DAMAGE TO EXISTING PAYEMENT MARKINGS OR RAISED REFLECTIVE PAYEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.

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 DIRECTED BY THE ENGINEER.

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

LOCATION OF COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.

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

IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO VERIFY ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING OF MATERIALS.

FRAMES AND GRATES ADJUSTMENTS OF PRIVATE UTILITIES WITHIN THE LIMITS OF THE PROJECT 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 WORK.

THE ENGINEER SHALL CONTACT MS. PATRICE HARRIS, AREA TRAFFIC ENGINEER, AT (708) 597-9800 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVENENT MARKINGS.

THE THICKNESS OF THE HMA MIXTURE SHOWN ON THE PLANS IS THE NOMINAL THICKNESS, DEVIATIONS FROM THE NOMINAL THICKNESS WILL BE PERMITTED WHEN SUCH DEVIATIONS OCCUR DUE TO IRREGULARITIES IN THE EXISTING SURFACE OR BASE ON WHICH THE HMA MIXTURE IS PLACED.

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

WHEN CONSTRUCTION OPERATIONS ON TWO-LANE ROADS OPEN TO TRAFFIC RESULT IN THE REMOVAL OR COVERING OF ANY PAVEMENT STRIPING INDICATING PASSING RESTRICTIONS, "NO PASSING ZONES NOT STRIPED NEXT ... MILES" SIGNS SHALL BE USED, THE CONTRACTOR SHALL PLACE THE SIGNS AT THE BEGINNING OF THE UNSTRIPED AREA, JUST BEYOND EACH MAJOR INTERSECTION WITHIN THE UNSTRIPED AREA, AND AT SUCH OTHER LOCATIONS AS THE ENGINEER MAY DIRECT TO ENSURE A MINIMUM SPACING OF FIVE MILES, THE SIGNS SHALL BE PLACED JUST PRIOR TO REMOVAL OR COVERING OF THE STRIPE AND SHALL REMAIN IN PLACE UNTIL FULL NO PASSING ZONE STRIPING HAS BEEN RESTORED, THIS WORK WILL BE CONSIDERED INCIDENTAL TO THE CONTRACT AND NO EXTRA COMPENSATION WILL BE ALLOWED.

DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.

DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" AND AS SHOWN IN THE PLANS.

PAYEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TREM PAYEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAYEMENT MARKING TAPE, TYPE III AND ITS REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM PAYEMENT MARKINGS.

WHEN THE MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED I 1/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 40 MPH (80 KM/H) OR LESS AND I INCH (25MM) 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 (75MM) MAY BE ALLOWED IF EDGE OF THE MILLING IS SLOPED A MINIMUM 1+3 (1/2H),

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

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STATE	E 01	FILLINOIS
DEPARTMENT	0F	TRANSPORTATION

INDEX (OF SHEETS,	STATE STANDARDS AND G	ENERAL NOTES	ŘÍL.	SECTION
RIDGE ROAD 4	MARGARE1	STREETIL I CHALSTED	STJ TO SCHRAB ST.	1620	44-85-2
CALE	SHEET NO.	I OF I SHEETS STA.	to STA.	FEG. 80	AG DIST, NO. 1 BLE BUDIS FED. A

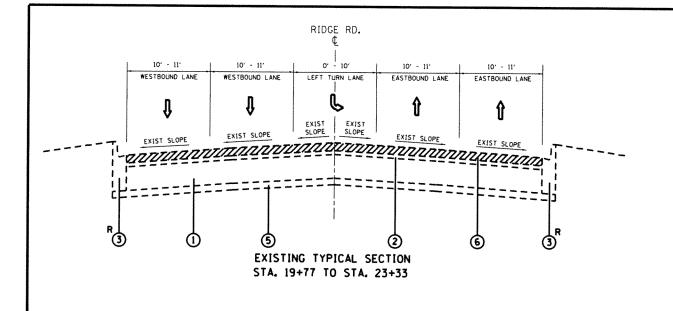
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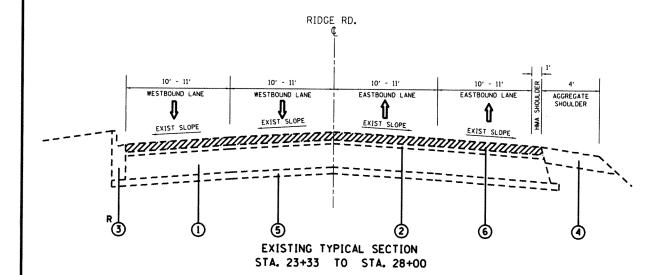
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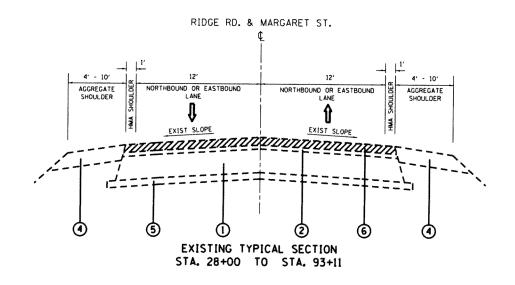
COUNTY

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CODE NO	ITEM	UNIT	TOTAL OUANTITIES	85% FED . 15%. STATE						CODE NO		ITEW	UNIT	TOTAL QUANTITIES	PED 151 STATE			**************************************		
				0005							A. 166 A BATCH	ES. TYPE III. 9 INCH	50 YD	15	0005					
21101615	TOPSOIL FURNISH AND PLACE, 4"	SO YO	25	25						44201757	CLASS D PAICH	ED. HEE III, F INDO	1 30 .5	1.0						
25200110	SODOING, SALT TOLERANT	50 YO	25	25						48102100	AGGREGATE WED	GE SHOULDER, TYPE B	TON	515	515				·	
								:					-				ļ			
40600200	BITUMINOUS WATERIALS (PRIME COAT)	TON	28	28						56109210	MATER VALVES	TO BE ADJUSTED	EACH	4	4					
40600500	AGGREGATE (PRIME COAT)	TON	156	136						63500310	REMOVE AND RE	INSTALL DELIMEATORS	EACH	28	28					
																				<u> </u>
40600400	MIXTURE FOR CRACKS, JOINTS,	TON	51	51						67000400	ENGINEER'S FI	ELD OFFICE. TYPE A	CAL WO	4	4					
	AND FLANGEWAYS									67100100	MOBILIZATION		L SUM		1				-	
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT	SO YO	310	310																
	JOINT									70102620		OL AND PROTECTION.	L SUM	1	1					ļ
	AND ALL AGENTS OF STREET AND	704	35	35							STANDARD TOTE	101				-				
40601005	HOT-WEX ASPHALT REPLACEMENT OVER	TON	7	33						70102635	TRAFFIC CONTR	OL AND PROTECTION.	L SUM	1	1					
											STANDARO 7011	701								
40603148	POLYMERIZED HOT-MIX ASPHALT BINDER	TON	3800	3800												·				
	COURSE. STONE MATRIX ASPHALT, M80									70500100	SHORT TERM PA	LYENENT MARKING	FOOT	2480	2480					
40603153	POLYMERIZED HOT-MIX ASPHALT SURFACE	704	3800	5800						70500210	TEMPORARY PAY	VEWENT WARKING	SO FT	76. 6	76.6					
	COURSE. STONE MATRIX ASPHALT. N80										LETTERS AND	SYMBOLS					ļ			
					-					70500220	TEMPOBABY PA	/EVENT WARKING	FOOT	27520	27520		ļ			
42001300	PROTECTIVE COAT	SO YD	34	54				1		10300210	- LINE 4"									e -
44000165	HOT-WIX ASPHALT SURFACE REMOVAL. 4"	SO YD	32439	32439																
				7-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1-1		<u></u>	<u> </u>	<u> </u>		70500240		VEWENT WARKING	FOOT	160	160					
44002216	HOT-MIX ASPHALT REMOVAL OVER PATCHES.	SO YD	150	150			1				- LINE 6"				<u> </u>					
										70300260	TEMPORARY PA	VEWENT WARKING	FOOT	410	410		*	SPECIA	LTY ITE	MS
44201753	CLASS D PATCHES, TYPE 11. 9 INCH	SO YD	110	110			·			1 7 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1 1	- LINE 12"					<u> </u>	1		IPATING	
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#file(#		DRAWN - CHECKED -		REVISED REVISED			1		STATE OF	ILLINUIS RANSPORTA	TION	RIDGE ROAD & MARGARET STR	EETIL I CHA	LSTED STJ 1	O SCHWAB	ST. 1620	<u> </u>	I-RS-2	CONTRACT	
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	SUMMARY OF QUANTITIES				C	ONSTRUCT	ON TYPE	CODE							ONSTRUCT	ION TYPE	CODE		
CODE NO	ITEM	UNIT	TOTAL QUANTITIES	0005					***************************************	CODE NO	SUMMARY OF QUANTITIES ITEM	UNIT	TOTAL QUANTITIES	0005					
70500270	TEMPORARY PAVEMENT MARKING	FOOT	270	270]- 	†	#88600600	DETECTOR LOOP REPLACEMENT	FOOT	764	764					
,	- LINE 16"		1			*		<u> </u>				1							
										x2020110	GRADING AND SHAPING SHOULDERS	UNIT	150	150					
70500280	TEMPORARY PAYEMENT MARKING	FOOT	380	580				1											
	" LINE 24"	-	·							x4063500	PRELIMINARY TEST STRIP	EACH	2	2					
								•			·								
70501000	WORK ZOME PAYEMENT MARKING REMOVAL	SO FT	850	850						x6050510	FRAMES AND LIDS TO BE ADJUSTED	EACH	12	12					
											(SPECIAL)				·				
#7 8000100	THERMOPLASTIC PAVENENT MARKING	50 FT	76.6	76.6			•												
	- LETTERS AND SYMBOLS									Z0004562	COMBINATION CONCRETE CURB AND GUTTER	FOOT	150	150					
											REMOVAL AND REPLACEMENT						<u></u>		
# 78000200	THERMOPLASTIC PAVENENT MARKING	FOOT	27520	27520		· 						<u> </u>							
	- LINE 4"									CJZ0018500	DRAINAGE STRUCTURES TO BE CLEANED	EACH	5	5					
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#78000400	THERMOPLASTIC PAYENERT MARKING	FOOT	160	160					-	20050850	TEMPORARY INFORMATION SIGNING	SO FT	102.8	102.8					
	- LINE 6"						<u></u>	ļ			·	ļ							·
										Z0048665	RAILROAD PROTECTIVE LIABILITY INSURANCE	L SUN	1	1					
#78000600	THERMOPLASTIC PAYENENT MARKING	FOOT	410	410															
	- LINE 12"						······································												
												<u> </u>							
#78000610		FOOT	270	210														·	<u> </u>
	- LINE 16"						·············			-		<u> </u>							
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\$78000650	THERMOPLASTIC PAVEMENT MARKING	FOOT	380	380			·					<u> </u>	***						
	- LINE 24"											<u> </u>		~~ · · · · · ·					<u> </u>
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#78100100	RAISED REFLECTIVE PAVENENT WARKER	EACH	420	420				·											<u> </u>
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78300200	RAISED REFLECTIVE PAVENENT MARKER	EACH	380	380			······································				· · · · · · · · · · · · · · · · · · ·	 						Ĺl	
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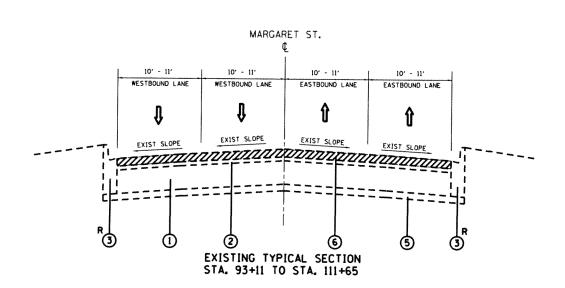






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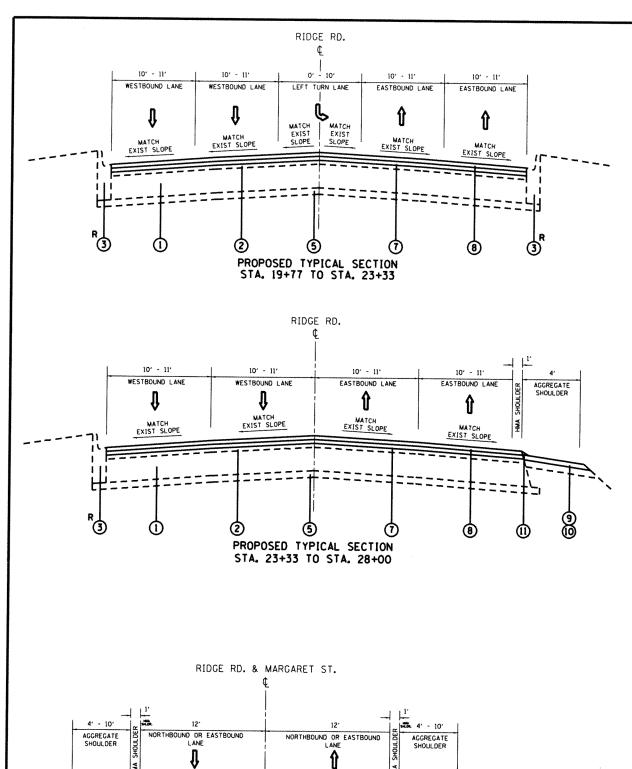
- EXISTING P.C.C. PAVEMENT, ±9"
- EXISTING HOT-MIX ASPHALT SURFACE, ±2" (AFTER MILLING)
- EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- EXISTING AGGREGATE SHOULDER
- EXISTING STABILIZED SUB-BASE
- PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL, 4"
- PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE. STONE MATRIX ASPHALT, N80, 2"
- PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE. STONE MATRIX ASPHALT, N80, 2"
- PROPOSED GRADING AND SHAPING SHOULDERS
- PROPOSED AGGREGATE WEDGE SHOULDERS. TYPE B
- PROPOSED SAFETY EDGE
- CURB AND GUTTER REMOVAL AND REPLACEMENT



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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	EXIS	TING TY	PICAL	SECTIONS		F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEE NO.
RIDGE ROAD	& MARGARET	STREET	IL 1	(HALSTED	STJ TO SCHWAB ST.	1620	44-RS-2	COOK	30	5
SCALE	SHEET NO.		SHEETS		TO STA.		167 ha 1 [h. mate] 220	CONTRAC	' NO. 6	ON 39



LEGEND:

- EXISTING P.C.C. PAVEMENT, ±9"
- EXISTING HOT-MIX ASPHALT SURFACE, ±2" (AFTER MILLING)
- EXISTING COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
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- PROPOSED HOT-MIX ASPHALT SURFACE REMOVAL. 4"
- PROPOSED POLYMERIZED HOT-MIX ASPHALT BINDER COURSE. STONE MATRIX ASPHALT, N80, 2"
- PROPOSED POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE. STONE MATRIX ASPHALT, NBO, 2"
- PROPOSED GRADING AND SHAPING SHOULDERS
- PROPOSED AGGREGATE WEDGE SHOULDERS, TYPE B
- PROPOSED SAFETY EDGE

MIXTURE REQUIREMENTS

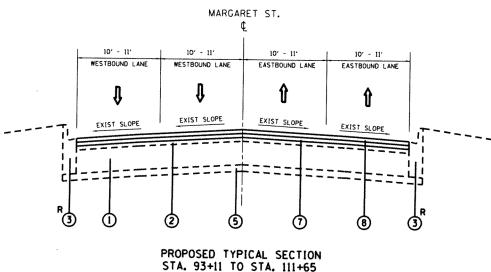
MIXTURE USE	DESIGN AIR VOIDS
CLASS "D" PATCHES (HMA BINDER COURSE, IL-19MM)	4% e 70
HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER COURSE, IL-19MM)	4% e 70
POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, STONE MATRIX ASPHALT, N80	3.5% € 80
POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, STONE MATRIX ASPHALT, N80	3.5% e 80

NOTES:

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT OUANTITIES IS 112 LBS./SO. YD./ IN.

THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS.

THE PATCHING SHALL BE DONE PRIOR TO THE MILLING



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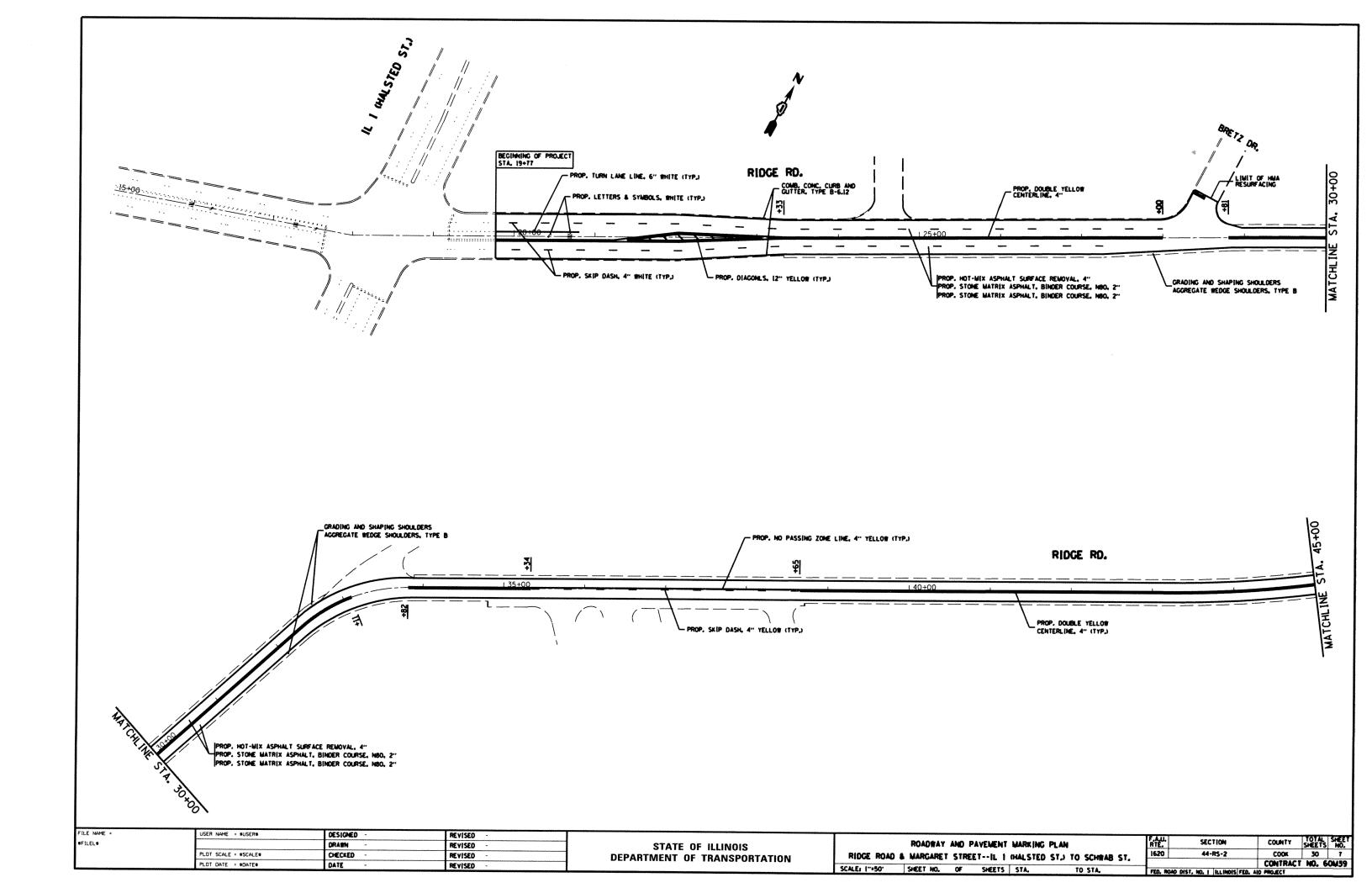
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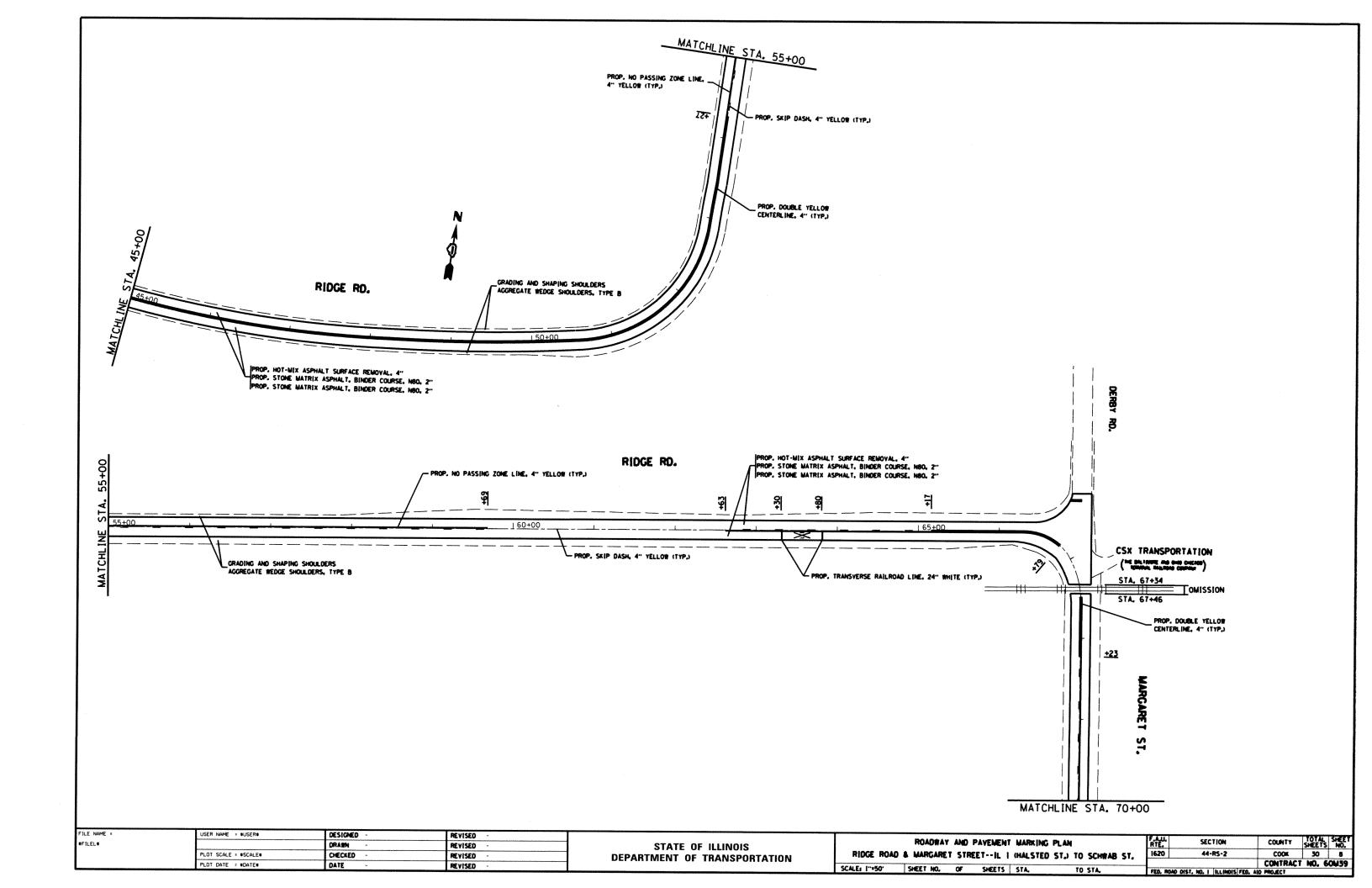
MATCH EXIST SLOPE

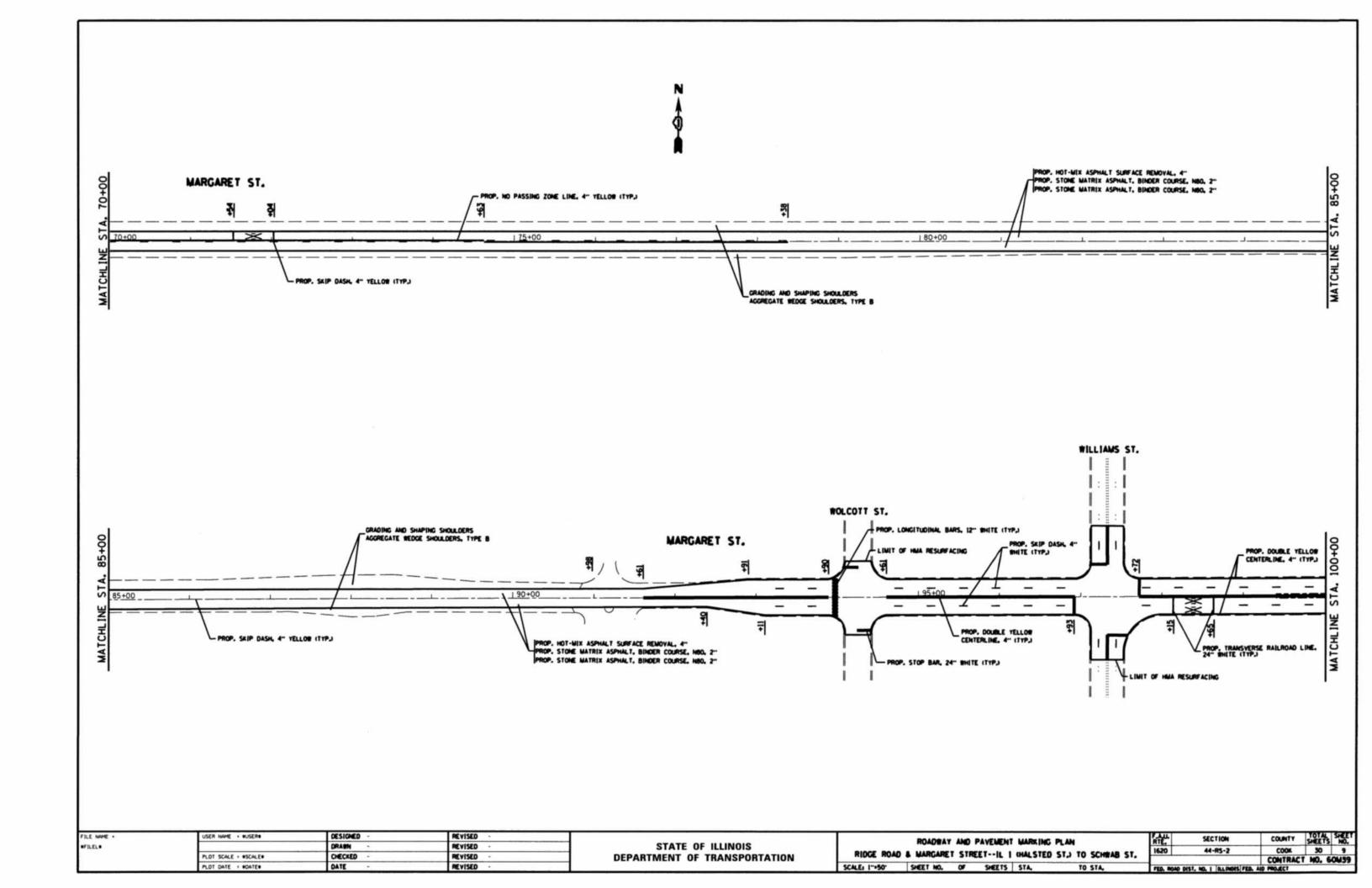
MATCH EXIST SLOPE

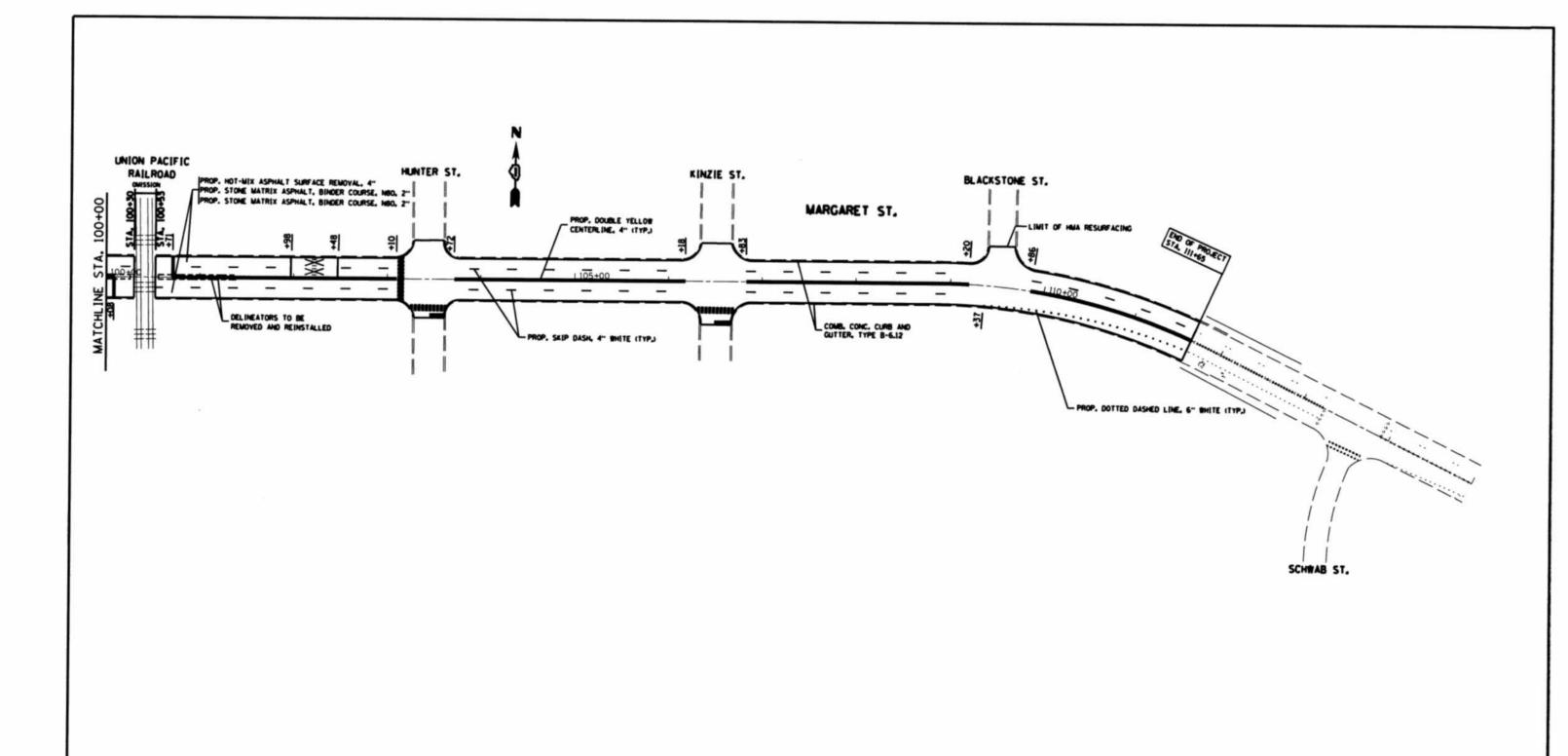
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

	PROP	OSED TYPICAL	F.A.U. RTÉ.	SECTION	COUNTY	TOTAL	SHEET NO.			
RIDGE ROAD	MARGARET	STREET IL 1	CHALSTED	ST.) TO	O SCHWAB ST.	1620	44-RS-2	COOK	30	6
SCALE:	SHEET NO.	OF SHEETS	,			FF0 80	An niet ten i litte bestellere ti	CONTRACT	NO. 6	0439









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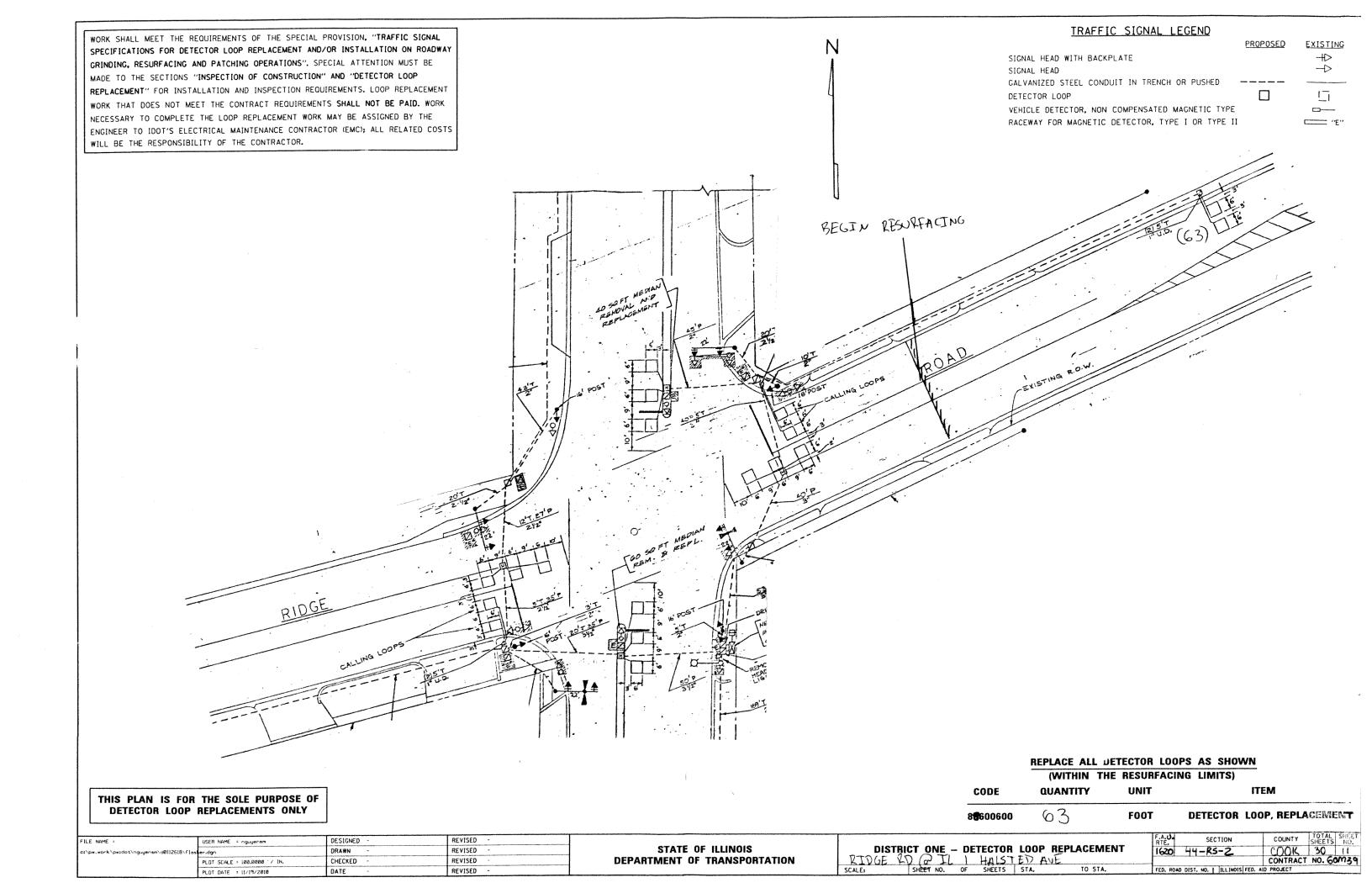
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ROADWAY AND PAYEMENT MARKING PLAN
RIDGE ROAD & MARGARET STREET--IL 1 (HALSTED ST.) TO SCHWAB ST.

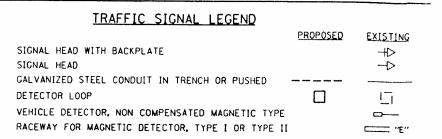
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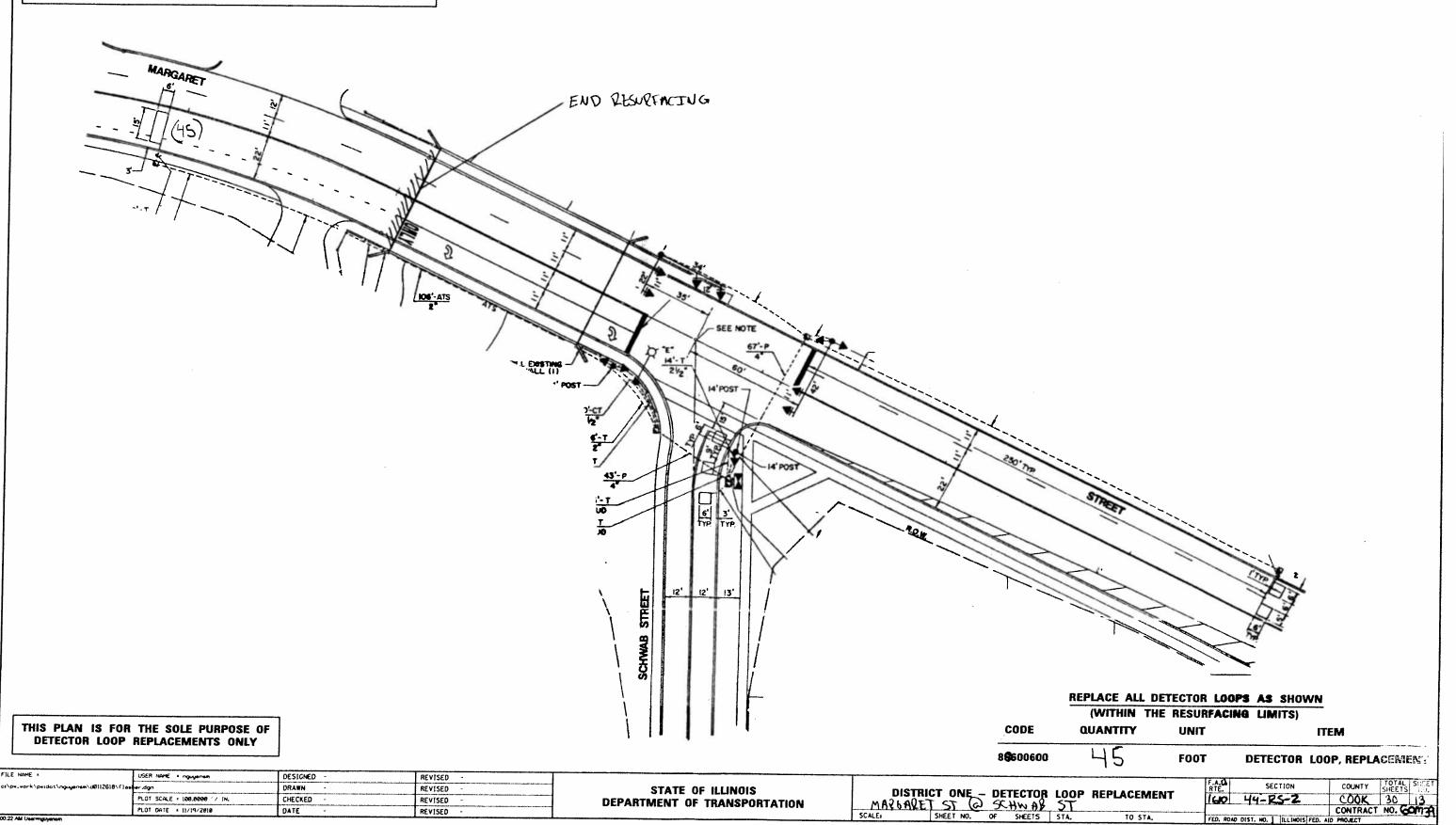


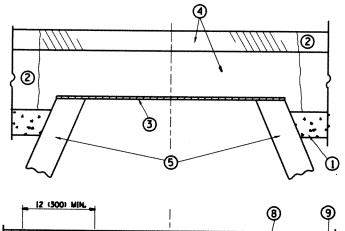
WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL TRAFFIC SIGNAL LEGEND SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE PROPOSED EXISTING SIGNAL HEAD WITH BACKPLATE +MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP SIGNAL HEAD $\neg \triangleright$ REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT GALVANIZED STEEL CONDUIT IN TRENCH OR PUSHED WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK DETECTOR LOOP NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE VEHICLE DETECTOR, NON COMPENSATED MAGNETIC TYPE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS RACEWAY FOR MAGNETIC DETECTOR, TYPE I OR TYPE II WILL BE THE RESPONSIBILITY OF THE CONTRACTOR. RESURFACING LIMIT MARGARET EXISTING ROW ST. - EXISTING ROW 4-6'x10' LOOPS -4-6'x10' LOOPS (160) 168 EXISTING ROW. T.E.-2 TE-1 TE:-3 RESURFACTUG LIMIT WILLIAMS REPLACE ALL DETECTOR LOOPS AS SHOWN (WITHIN THE RESURFACING LIMITS) THIS PLAN IS FOR THE SOLE PURPOSE OF CODE QUANTITY UNIT DETECTOR LOOP REPLACEMENTS ONLY ITEM 656 8600600 FOOT DETECTOR LOOP, REPLACEMENT FILE NAME . USER NAME * nguyensm DESIGNED . REVISED DRAWN REVISED COUNTY SHEETS NO. STATE OF ILLINOIS DISTRICT ONE - DETECTOR LOOP REPLACEMENT
RIDGE LO MANGET ST & WILLIAMS ST.

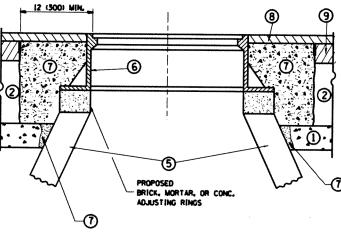
SCALE SHEET NO. OF SHEETS STA. TO STA PLOT SCALE = 189.0080 1/ IN. CHECKED -REVISED 44-RS-Z DEPARTMENT OF TRANSPORTATION PLOT DATE # 11/19/2018 DATE REVISED ther.dgn 11/19/2010 10:00:22 AM User

WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "TRAFFIC SIGNAL SPECIFICATIONS FOR DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION ON ROADWAY GRINDING, RESURFACING AND PATCHING OPERATIONS". SPECIAL ATTENTION MUST BE MADE TO THE SECTIONS "INSPECTION OF CONSTRUCTION" AND "DETECTOR LOOP REPLACEMENT" FOR INSTALLATION AND INSPECTION REQUIREMENTS. LOOP REPLACEMENT WORK THAT DOES NOT MEET THE CONTRACT REQUIREMENTS SHALL NOT BE PAID. WORK NECESSARY TO COMPLETE THE LOOP REPLACEMENT WORK MAY BE ASSIGNED BY THE ENGINEER TO IDOT'S ELECTRICAL MAINTENANCE CONTRACTOR (EMC); ALL RELATED COSTS WILL BE THE RESPONSIBILITY OF THE CONTRACTOR.









NOTES:

EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER, REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109,04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

IF THE EXISTING LIDS ARE OPEN, THE FRAME WILL BE ADJUSTED TO THE ELEVATION OF THE WILLED PAVEMENT SURFACE PRIOR TO THE MILLING OPERATION. THE FRAME WILL NOT BE REMOVED AND COVERED BY THE METAL PLATE.

CITY OF CHICAGO CASTINGS ARE THE PROPERTY OF THE CITY AND THE CONTRACTOR SHALL NOTIFY THE CITY FOR REMOVAL AND DISPOSITION OF THE CASTINGS.

THE METAL PLATE USED TO COVER THE STRUCTURE SHALL REMAIN THE PROPERTY OF THE CONTRACTOR.

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY ITEM.

CONSTRUCTION PROCEDURES

STAGE | (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 11/2 (40)
 THICK HMA SURFACE MIX APPROVED BY THE ENGINEER,

STAGE 2 (AFTER PAVEMENT MILLING)

- AT REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LIDE ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-10 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."

LEGENO

- SUB-BASE GRANULAR
- 6 FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVENENT

(5) EXISTING STRUCTURE

- 7 CLASS PP-I+ CONCRETE
- 3 36 (900) DIAMETER NETAL PLATE
- (8) PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND
- (9) PROPOSED HAVA BINDER COURSE

LOCATION OF STRUCTURES

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

BASIS OF PAYMENT

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAYEMENT 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 (SPECIALL"

THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION

NEW FRAMES AND LIDS, WHEN SPECIFIED, WILL BE PAID FOR SEPARATELY.

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME = SUSERO DESIGNED - R. SHAM REVISED - R. WIEDEMAN 05-14-04

#FILELS

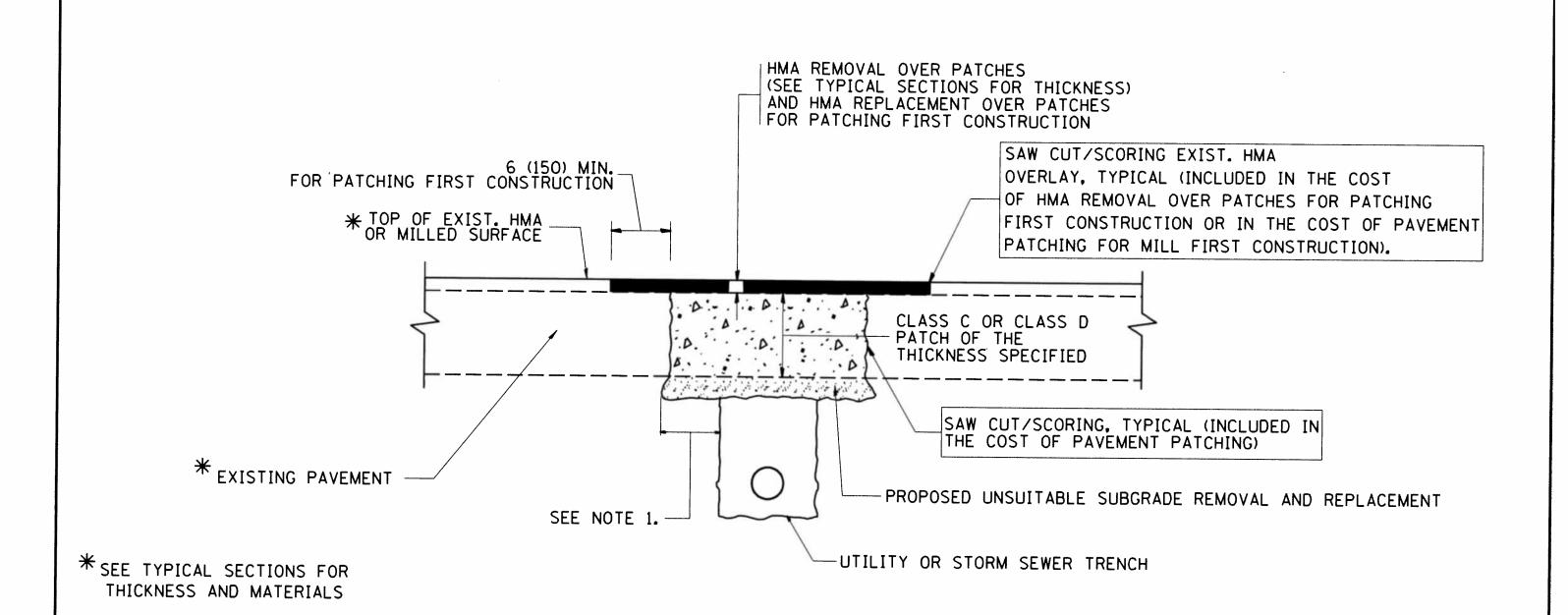
| DRAWN - REVISED - R. BORO 01-01-07

| PLOT SCALE = SSCALES | CHECKED - REVISED - R. BORO 03-09-11
| PLOT DATE = SDATES | DATE - 10-25-94 | REVISED - R. BORO 12-06-11

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING FRAMES AND LIDS ADJUSTMENT WITH MILLING FRAMES AND LIDS ADJUSTMENT WITH MILLING BD600-03 (BD-8) CONTRACT NO. 60M39

SCALE; NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA. FED. ROAD DIST, NO. 1 | ILLINDIS|FED. ADD PROJECT



NOTES:

- 1. THE WIDTH OF THE FULL DEPTH PATCH OVER A TRENCH SHALL BE 12 (300) WIDER ON EACH SIDE OF THE TRENCH.
- 2. FOR METHOD OF MEASUREMENT AND BASIS OF PAYMENT, SEE RECURRING SPECIAL PROVISION "PATCHING WITH HOT-MIX ASPHALT OVERLAY REMOVAL".

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

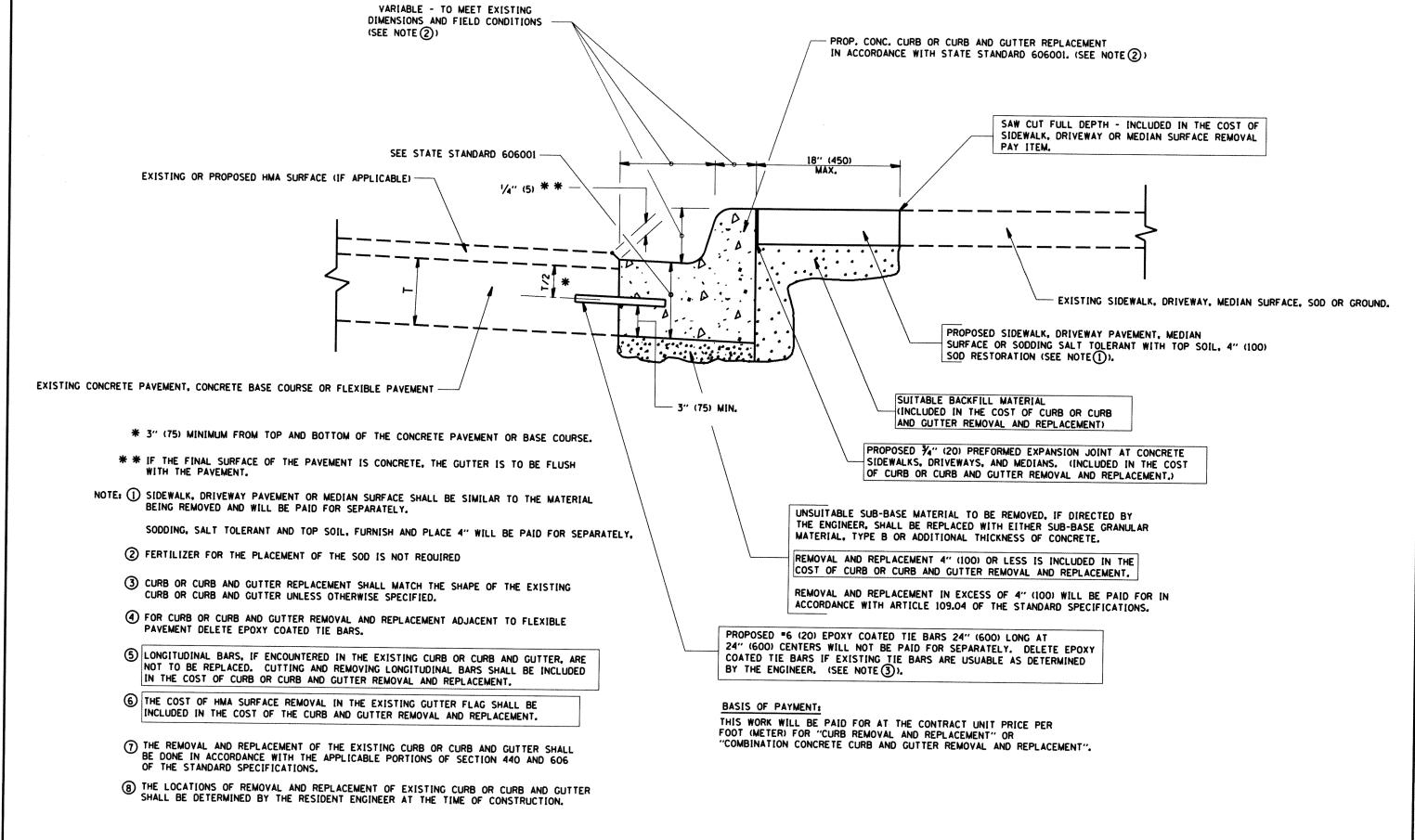
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

- 1. MILL HMA FIRST IF THERE IS AT LEAST 41/2 INCHES OR MORE OF HMA MATERIAL ON TOP OF THE EXISTING PAVEMENT OR IF THE PAVEMENT IS FULL DEPTH HMA. A MINIMUM OF 2 INCHES OF HMA MATERIAL SHALL BE IN PLACE AFTER MILLING.
- 2. REMOVE AND REPLACE WITH FULL DEPTH CLASS D PATCHES TO TOP OF MILLED SURFACE.

ALL DIMENSIONS ARE IN INCHES CHILLIMETERS) UNLESS OTHERWISE SHOWN,

TILE NAME	USER NAME + SUSERS	DESIGNED - R. SHAH	MEVISED	- A. ABBAS 04-27-98							
FILEL		ORANN -	REVISED	- R. BORO 01-01-07	STATE OF ILLINOIS	PAVEMENT PATCHING FOR	int.	SECTION	COUNTY	SHEETS	SIET
	PLOT SCALE . #SCALE#	CHECKED -	MEVISED	- R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	1620	44-85-2	COOK	30	15
	PLOT DATE * *DATE*	DATE - 10-25-94	REVISED	- K. ENG 10-27-06				BD400-04 (BD-22)	CONTRAC	T NO. 6	JOM39
						SCALES HOME SHEET NO. 1 OF 1 SHEETS STA, TO STA.	719,	HOAO OIST, NO. ! BLEMMIS FEE.	NO PROJECT		



CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

SECTION

44-RS-2

FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

BD600-06 (BD-24)

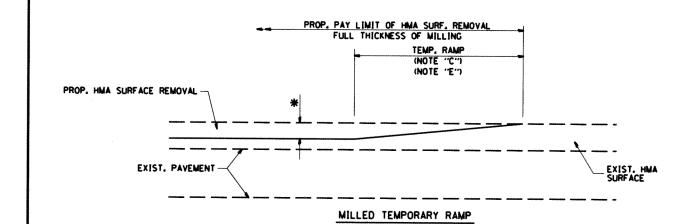
1620

COUNTY TOTAL SHEE

COOK 30 16

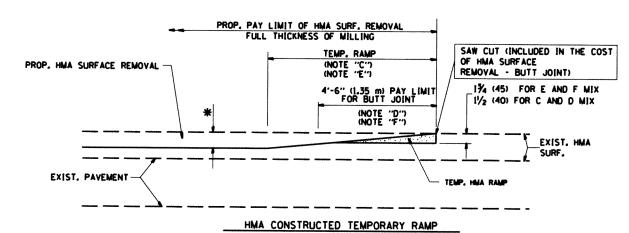
CONTRACT NO. 60M59

, ice waste .	USER NAME : BUSERS	DESIGNED -	A. HOUSEH	REVISED -	R, SHAH 10-03-96						
FILEL		DRAWN -		REVISED -	A. ABBAS 03-21-97	STATE OF ILLINOIS		CURB OR CURB A	ND GUTTER		FA
	PLOT SCALE = *SCALE*	CHECKED -		REVISED -	M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION		REMOVAL AND RE	PLACEMENT		167
	PLOT DATE = #DATE#	DATE -	03-11-94	REVISED -	R. BORO 12-15-09		SCALE: NONE				
							SCALES HORE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED



OPTION 1

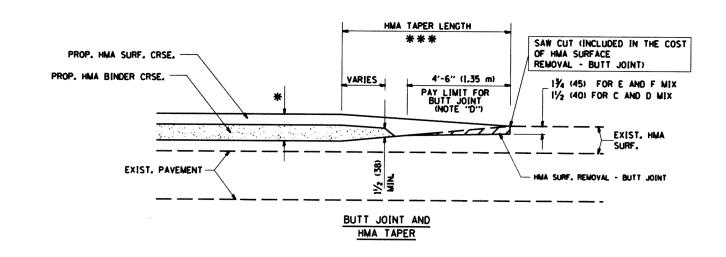
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)



FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW!

OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND

HMA TAPER DETAILS

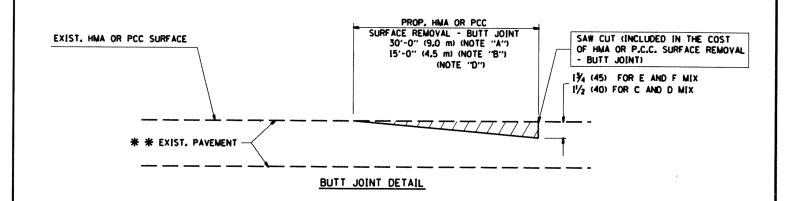
SHEET NO. 1 OF 1 SHEETS STA. TO STA.

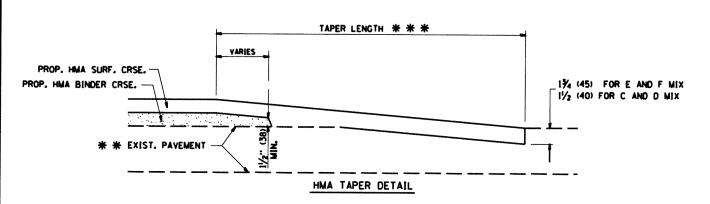
BUTT JOINT AND

RTE. SECTION COUNTY SHEETS NO.

1620 44-RS-2 COOK 30 17

BD400-05 BD32 CONTRACT NO. 60M39





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

NOTES

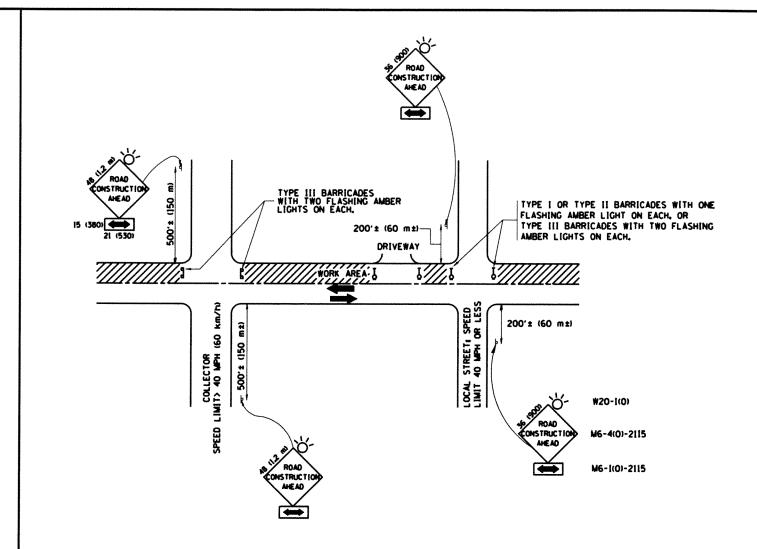
- As MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0"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

BASIS OF PAYMENT:

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

SCALE: NONE

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



TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS. INTERSECTIONS. AND DRIVEWAYS

NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEERS
- OF THE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT CREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEERS
- OF ONE ROAD CONSTRUCTION AHEAD SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500' (150 m) IN ADVANCE OF THE MAIN ROUTE.
- b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (MG-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (MG-4).

SCALE: NONE

B. FOR A LAME CLOSURE ON A SIDE ROAD OR DRIVEWAY:

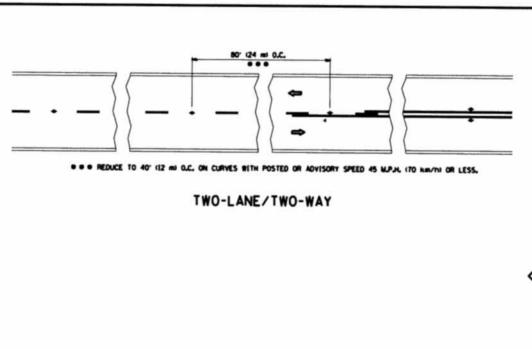
USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES ISTD. 701501, STD. 701606 OR THE APPROPRIATE STANDARD), THE SPACING OF SIGNS AND BARRICADES SHALL BE ADJUSTED FOR FIELD CONDITIONS AS DIRECTED BY THE ENGINEER. THE DIRECTIONAL ARROW SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE SIDE ROAD LANE CLOSURE.

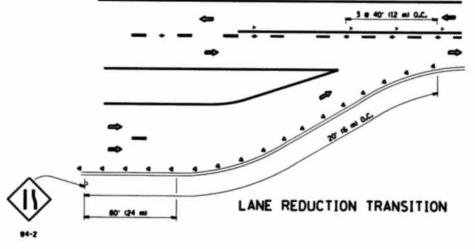
- C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.
- D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

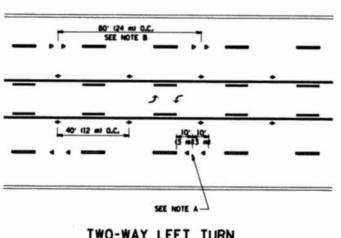
All dimensions are in millimeters (inches) unless otherwise shown,

FILE NAME :	USER NAME = #USER#	DESIGNED - LHA	REVISED -	J. OBERLE 10-18-95
FILEL		DRAWN -	REVISED -	A. HOUSEH 03-06-96
	PLOT SCALE = *SCALE*	CHECKED -	REVISED -	A. HOUSEH 10-15-96
	PLOT DATE * *DATE*	DATE - 06-89	REVISED -T.	RAMMACHER 01-06-00

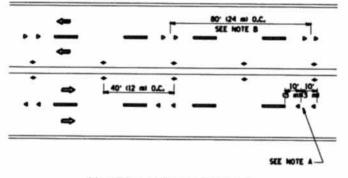
TRAFFIC CONTROL AND PROTECTION FOR	RTE. SECTION	COUNTY TOTAL SHEET NO.
SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS	1620 44-RS-2	COOK 30 18
	TC-10	CONTRACT NO. 60M59
SHEET NO. OF SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED. AIG	PROJECT



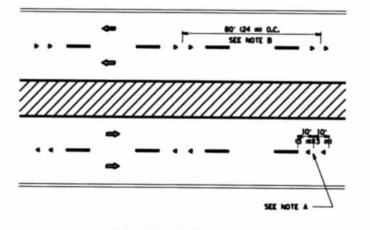




TWO-WAY LEFT TURN







MULTI-LANE/DIVIDED

GENERAL NOTES

- I. WARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SECMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 ISO TO 751 TORARD TRAFFIC AS SHORN.
- 3. MARKERS THROUGH TANGENTS LESS THAM 500' (150 mi IN LENGTH BETREEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TRO CURVE SPACINGS.

LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- B. REDUCE TO 40" (12 ml D.C. ON CLRVES SHERE ADVISORY SPEEDS ARE 10 M.P.H. (20 km/m) LOBER THAN POSTED SPEEDS.

SYMBOLS

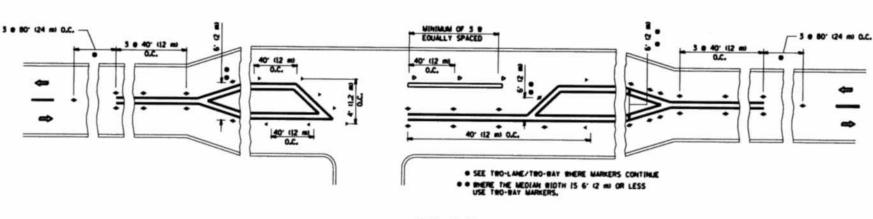
- YELLOW STRIPE

MITE STRIPE

- OME-WAY CRYSTAL MARKER (9/0)

DESIGN NOTES

- I. DOUBLE LAME LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERBISE.
- 2. EXCEPT AS SHOWN ON THE LAME REDUCTION TRANSITION AND FREEBAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
- 5. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHALL BE INCLUDED IN THE PLANS WEN STANDARD SPECIFICATIONS ARE NOT BEING USED.
- 4. MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CLRBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.



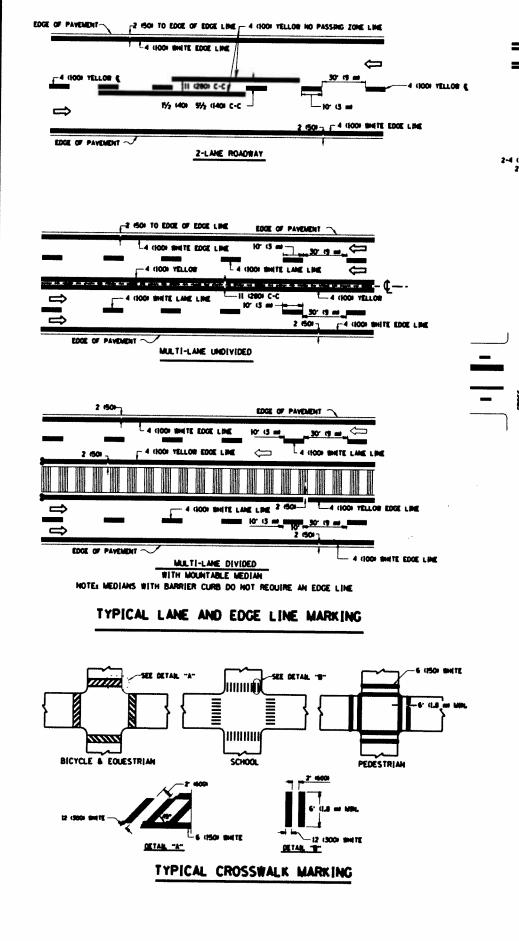
LEFT TURN

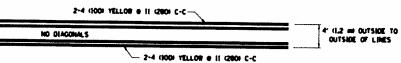
All dimensions are in inches (millimeters) unless otherwise shown.

TILE NAME .	USER NAME . BUSERS	DESIGNED -	REVISED -T, RAMMACHER 09-19-94
FILEL		DRAMM -	REVISED -T, RAMMACHER 03-12-99
	PLOT SCALE SCALE.	CHECKED -	REVISED T, RAMMACHER 01-06-00
	PLOT DATE . * CATE*	DATE -	REVISED - C. JUCIUS 09-09-09

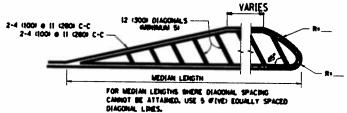
STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

	TYPICAL APPLICATIONS	RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET
RAISED	REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	1620	44-R5-2	COOK	30	19
	Terre 14 1 44 1 4 1 4 1 4 1 4 1 4 1 4 1 4 1		TC-11	CONTRACT	NO. 6	50M39
SCALE: NOME	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. BOAD	MET NO 1 D. MOSE FE	A 410 000 001		-



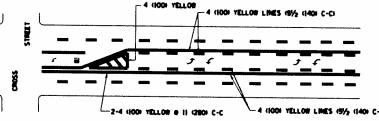


4" (1.2 m) WIDE MEDIANS ONLY



DIAGONAL LINE SPACING: 50" (IS MF C-C LESS THAN SOMPH (50 km/hi) 75" (25 mF C-C SOMPH (50 km/hi) TO 45MPH (70 km/hi) 150" (45 mF C-C (400RE THAN 45MPH (70 km/hi)

MEDIANS OVER 4' (1.2 m) WIDE

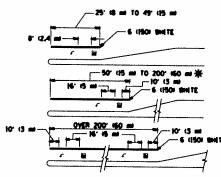


A MINIMAN OF THO PAIRS OF TURN ARROWS SMALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SMALL BE PLACED AT 200" (60 mm TO 300" (90 mm INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

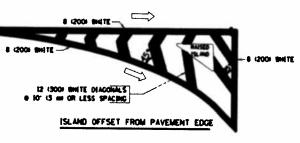


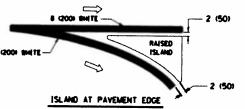
FULL SIZE LETTERS 8" (2,4 \pm 0 AMO AMORS SHALL BE USED, \$\frac{1}{2}\) AMEA + 15.6 SO, FT, (L5 \pm 0.2) AMEA + 20.8 SO, FT, (L5 \pm 0.2)

TURN LAMES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MICHAY RETREEN THE OTHER THO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LAME

TYPICAL TURN LANE MARKING





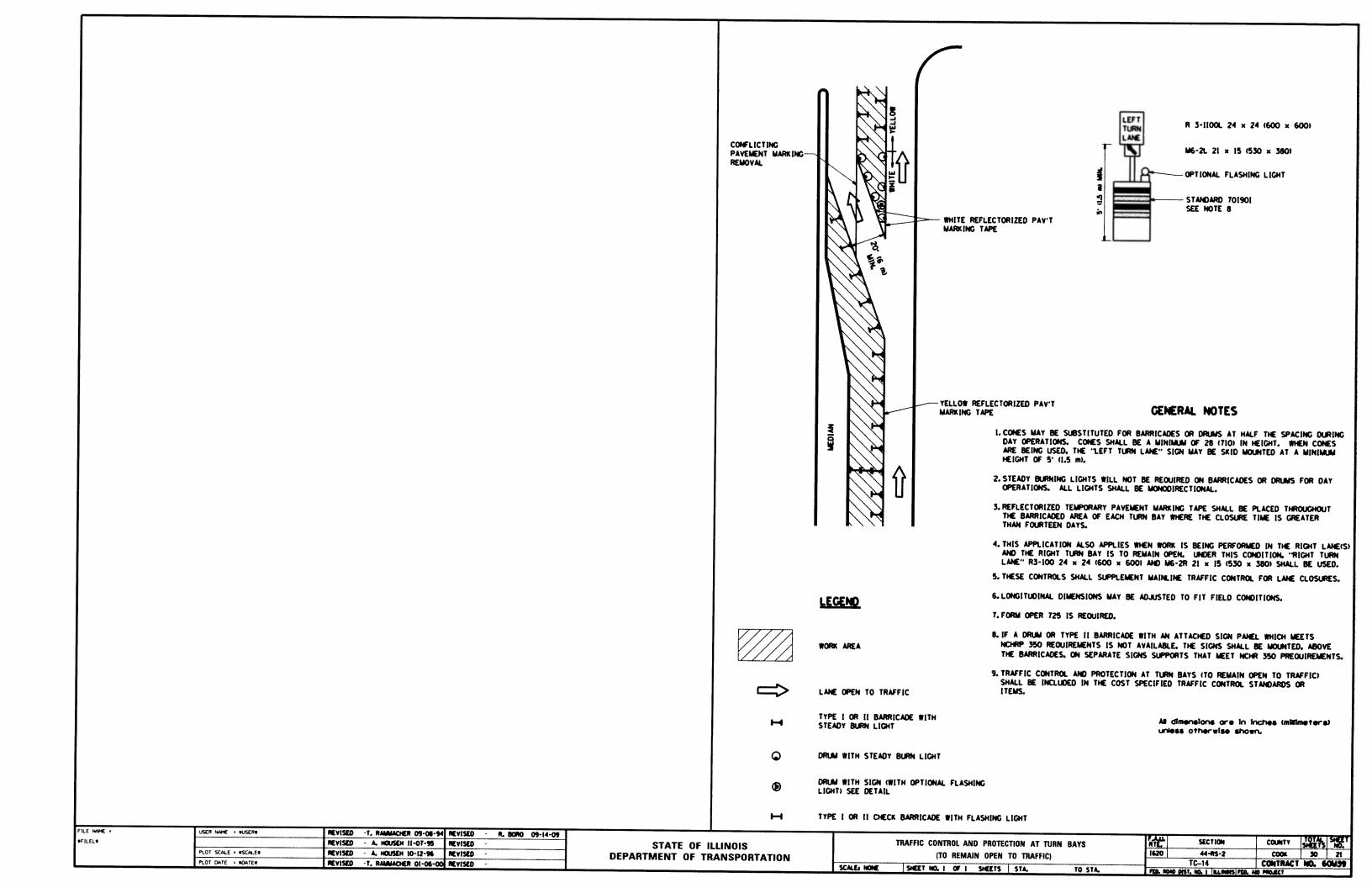
TYPICAL ISLAND MARKING

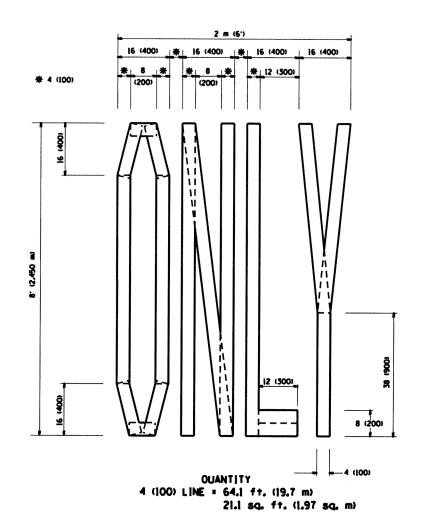
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REWARKS
CENTERLINE ON 2 LANE PAYENERS	4 (100)	SKIP-DASH	VELLOS	IO IS AN LINE BITH SO IS AN SPACE
CENTERLINE ON MILTI-LINE UNDIVIDED	2 0 4 (100)	SOL ID	YELLOW	II 42801 C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 6 4 (100)	SQL 10 SQL 10	AETTOS AETTOS	9/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETBEEN
LME LINES	4 (100) 5 (125) ON FREEBAYS	SKIP-DASH SKIP-DASH	SHITE SHITE	10" 15 m LINE BITH 50" 19 m SPACE
DOTTED LINES EXTENSIONS OF CENTER, LANE OR TURN LANE WARRINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2" (600) LINE BITH 6" (LB as SPACE
EDDE LIMES	4 (100)	SQL 10	YELLON-LEFT SHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW EDGE LINES ARE NOT USED NEXT TO BANNIER CUMB
TURN LANE MARKINGS	6 (150) LINE, FULL SIZE LETTERS & SYMBOLS OF (2,4m)	SQL 10	B HTE	SEE TYPICAL TURN LAME MARKING DETAIL
THE BAY LEFT TURN MARKING	2 0 4 (100) EACH OPPECTION B' (2.4m) LEFT ARROR	SKIP-DASH AND SOLID IN PAIRS	METE AET CO.	IO' (5 m) LINE BITH 30' (9 m) SPACE FOR SKIP-DASH, 9/7, (140) C-C BETBERN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TRO-BAY LEFT TURN MARKING DETAIL
CROSSBALK LIMES PEDESTRIANO A. DIACONALS GINE & EQUESTRIANO B. LONGITUDINAL BARS (SCHOOL)	2 6 6 (150) 12 (300) 6 45* 12 (300) 6 90*	SQLID SQLID SQLID	DelTE DelTE DelTE	MOT LESS THAN 6" (LB ms APART 2" ISOO APART 2" ISOO APART SEE TYPICAL CROSSBALK MARKING DETAILS.
STOP LINES	24 (600)	SOL ID	SH (TE	PLACE # 42 m R ADVINCE OF IMP PARALLE TO CROSSAGE, IF PRESENT, OTHERWISE, PLACE AT DESIRED STOPPING PORT, PARALLE TO CROSSROAD CENTER, ME. WATE POSSAGE.
PAINTED MEDIANS	2 6 4 (100) BITH 12 (300) DIAGONALS 6 45" MO DIAGONALS USED FOR 4" (1.2 m) BIOE MEDIANS	5OL 10	YELLON: THO BAY TRAFFIC SHITE: ONE BAY TRAFFIC	II GBO C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
CORE MARKING AND CHAMBELIZING LINES	8 (200) BITH 12 (300) DIAGONALS @ 45"	501.10	BHITE	DIACONALSe 15° 44.5 all C-C GLESS THAN SOMEN (SO KAN/N) 20° 45 all C-C GLESS THAN SOMEN (SO KAN/N) 30° 19 all C-C GUER 450 MINI (TO KAN/N) 30° 19 all C-C GUER 450MM (TO KAN/N)
AILROAD CROSSING	24 1600) TRANSVERSE LINES: "RR" 15 6' (LB mi LETTERS: 16 (400) LINE FOR "X"	50.10	B ATE	SEE STATE STANDARD TROODS AREA OF: "17"34 SQ. FT. (0.33 m²) EACH "3"54.0 SQ. FT. (0.30 m²)
HOLLDER DIAGONALS	12 (500) 0 45*	501.10	SMITE - RIGHT YELLOS - LEFT	50" (15 m) C-C QLESS THÁN 30MPH (50 KM/TH) 75" (25 m) C-C (30 MPH (50 KM/TH) TO 45MPH (70 KM/TH) 150" (45 m) C-C (0VER 45MPH (70 KM/TH)

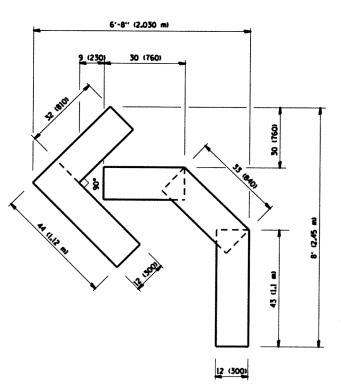
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 78000L

At dimensions are in inches emisseners! unless attenues emper.

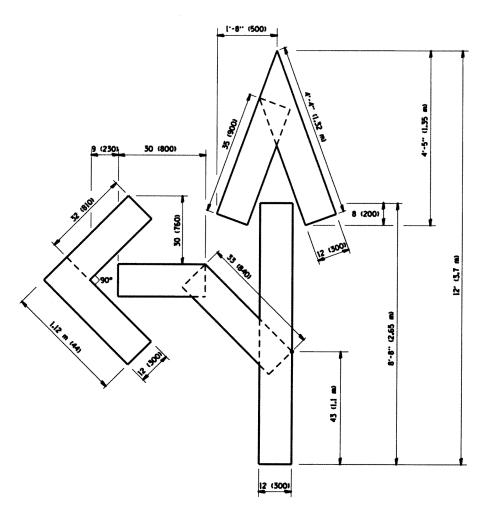
FILE NAME .	USER NAME + BUSERS	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-94				
FiLEL		DRAWN -	REVISED -C. JUCIUS 09-09-09		DISTRICT ONE	HTE SECTION	COUNTY TOTAL SHEET
		CHECKED -	MEVISEO -	DEPARTMENT OF TRANSPORTATION	TYPICAL PAVEMENT MARKINGS	1620 44-RS-2	COOK 50 20
	PLOT DATE : *DATE*	DATE - 03-19-90	REVISED -	20.7	SCALE, MOME SHEET NO. 1 OF 1 SHEETS ATA	TC-13	CONTRACT NO. 60M39
					SCALES NOWE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FEG. 8040 DIST. NO. 1 BL BURS FEA.	MO BOOKET







OUANTITY 4 (100) LINE = 45.5 ft. (13.9 m) 15.2 sq. ft. (1.39 sq. m)



OUANTITY 4 (100) LINE = 82.5 ft. (25.3 m) 27.5 sq. ft. (2.53 sq. m)

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

FILE NAME = USER NAME = SUSERS DESIGNED - REVISED -T. RAMANACHER 06-05-96

SFILELS DRAWN - REVISED -T. RAMANACHER 11-04-97

PLOT SCALE = SSCALES CHECKED - REVISED -T. RAMANACHER 03-02-98

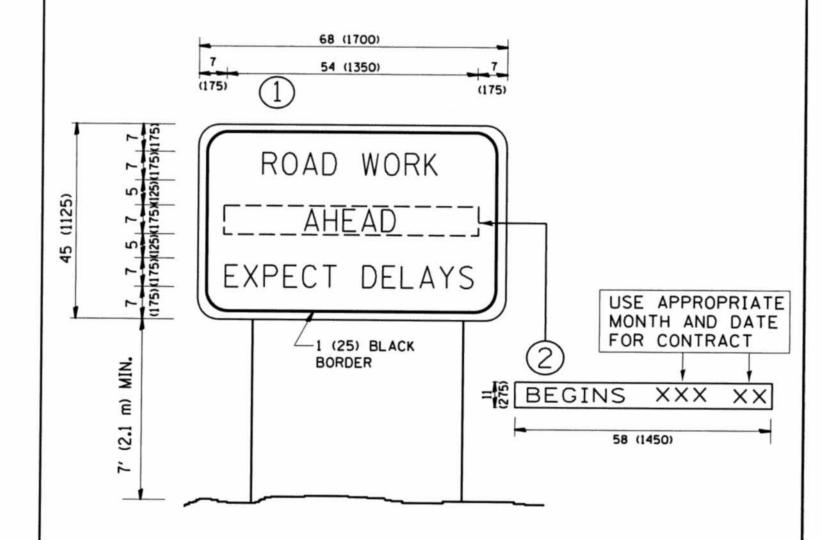
PLOT DATE = SDATES DATE - O9-18-94 REVISED -E. COMEZ 08-28-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ECTION COUNTY SHEETS NO.

44-RS-2 COOK 30 22

-16 CONTRACT NO. 60M39



NOTES:

1. USE BLACK LETTERING ON ORANGE BACKGROUND.

SCALE: NOME

- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN () WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL @ SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

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

FILE NAME .	USER NAME . BUSERS	DESIGNED -	REVISED - R. MIRS 09-15-97
●FILEL●		DRAMM -	REVISED - R. WIRS 12-11-97
	PLOT SCALE SCALE.	CHECKED -	REVISED - T. RAMMACHER 02-02-99
	PLOT DATE DATE.	DATE -	REVISED - C. JUCIUS 01-51-07

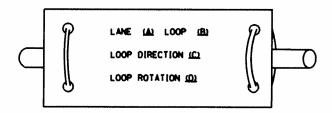
STATI	E OI	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

ARTERIAL RO	AD		RTE.	SECTION	COUNTY
INFORMATION	SIGN		1620	44-RS-2	COOK
		TC-22	CONTRACT		
SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FF0		110 704 444

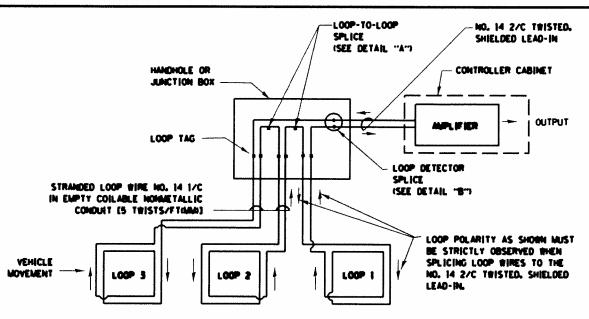
LOOP DETECTOR NOTES

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

LOOP LEAD-IN CABLE TAG

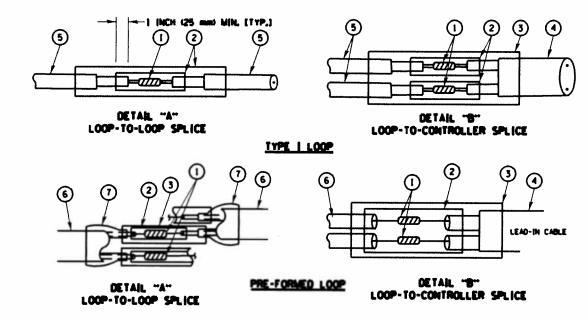


- A. LANE I IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP "I IS THE LOOP IN THE LAME CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKRISE OR LOOP CABLE COUNTERCLOCKRISE.



DETECTOR LOOP WIRING SCHEMATIC

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



LOOP DETECTOR SPLICE

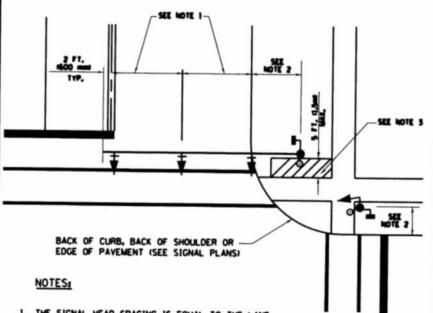
- WESTERN UNION SPLICE SOLDERED WITH ROSIN CORE FLUX. ALL EXPOSED SURFACES OF THE SOLDER SHALL BE SMOOTH.
- (2) NCSAW 30/100 HEAT SHRINK TUBE, MINIMAN LENGTH 3" (75 mm), UNDERWATER GRADE.
- (3) MCS 200/750 HEAT SHRINK TUBE, MINIMAN LENGHT 6" (150 mm), UNDERWATER GRADE,
- (4) NO. 14 2/C TWISTED, SHIELDED CABLE.
- (5) LOOP COMOUCTOR WITH FLEXIBLE PLASTIC TUBE.
- (6) PRE-FORMED LOOP
- THE POLYOLEF IN 2 CONDUCTOR BREAKOUT SEALS, TYCO CBR-2 OR APPROVED EQUAL

ILE NAME *	USER NAME * #USER#	DESIGNED -	DAD	MEVISED -
FILEL*		DRAMM -	BCX	REVISED -
	PLOT SCALE + #SCALE#	OECKED -	040	REVISED -
	PLOT DATE = #DATE#	DATE -	10-28-09	REVISED -

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

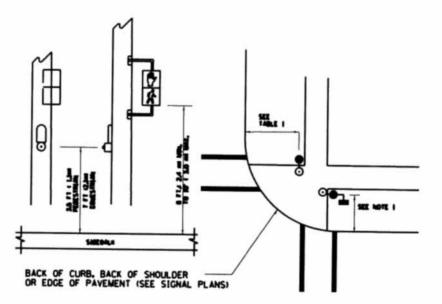
DISTRICT ONE	RTE SECTION	COUNTY	TOTAL SHEETS	SHEEY NO.
STANDARD TRAFFIC SIGNAL DESIGN DETAILS	1620 44-RS-2	COOK	50	24
	TS-05	CONTRACT	NO. 6	0439
SCALE: NOME SHEET NO. 1 OF 6 SHEETS STA. TO STA.	FED. MOND DIST. NO. 1 ML MOIS FEB. A	O PROJECT		

TRAFFIC SIGNAL MAST ARM AND SIGNAL POST MAST ARM MOUNTED SIGNALS IN EXISTING, PROPOSED OR FUTURE SIDEWALK/BICYCLE PATH AREA. INTERSECTION SHOWN WITH PEDESTRIAN SIGNALS AND PEDESTRIAN PUSHBUTTON DETECTORS.



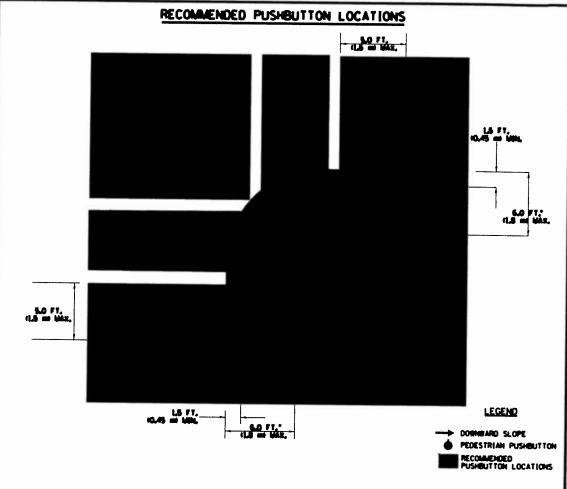
- 1. THE SIGNAL HEAD SPACING IS EQUAL TO THE LANE WIDTH OR AS SHOWN ON THE TRAFFIC SIGNAL PLAN.
- 2. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEYEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE MAST ARM SHAFT OR THE SIGNAL POST.
- THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 5. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCO AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."

PEDESTRIAN SIGNAL POST AND PEDESTRIAN PUSH BUTTON POST



NOTES:

- 1. REFER TO THE TRAFFIC SIGNAL EQUIPMENT OFFSET TABLE.
- PROVIDE A LEVEL ALL-WEATHER SURFACE (CONCRETE SIDEWALK, ASPHALT BICYCLE PATH SURFACE OR MATCHING MATERIAL TO THE ADJACENT SURFACE) UP TO THE PEDESTRIAN SIGNAL POST OR THE PEDESTRIAN PUSH BUTTON POST.
- 3. THE FACE OF THE PEDESTRIAN PUSHBUTTON SHALL BE PARALLEL TO THE CROSSWALK TO BE USED.
- 4. THE LOCATIONS AND INSTALLATION OF PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS SHALL MEET THE REQUIREMENTS OF THE MUTCD AND INFORMATION FOUND IN THE "AMERICANS WITH DISABILITIES ACT ACCESSIBILITY GUIDELINES FOR BUILDINGS AND FACILITIES."



- WHERE THERE ARE CONSTRAINTS THAT MAKE IT IMPRACTICAL TO PLACE THE PEDESTRIAN PUSHBUTTON BETWEEN 1.5 FT (0.45 m) AND 6 FT (1.8 m) FROM THE EDGE OF THE CURB, SHOULDER, OR PAVEMENT, IT SHOULD NOT BE FURTHER THAN 10 FT (3 m) FROM THE EDGE OF CURB, SHOULDER, OR PAVEMENT.
- .. WHERE THERE ARE CONSTRAINTS ON A PARTICULAR CORNER THAT MAKE IT IMPRACTICAL TO PROVIDE THE 10 FT (3 m) SEPERATION BETWEEN THE TWO PEDESTRIAN PUSHBUTTONS, THE PUSHBUTTONS MAY BE PLACED CLOSER TOGETHER OR ON THE SAME POLE.

NOTES:

- PEDESTRIAN SIGNAL HEADS SHALL BE MOUNTED WITH THE BOTTOM OF THE SIGNAL HOUSING INCLUDING BRACKETS NOT LESS THAN 8 FT (2.4 m) OR MORE THAN 10 FT (3 m) ABOVE SIDEWALK LEVEL, AND SHALL BE POSITIONED AND ADJUSTED TO PROVIDE MAXIMUM VISIBILITY AT THE BEGINNING OF THE CONTROLLED CROSSWALK.
- 2. THE BOTTOM OF THE SIGNAL HOUSING (INCLUDING BRACKETS) OF A VEHICULAR SIGNAL FACE THAT IS NOT LOCATED OVER A HIGHWAY SHALL BE AT LEAST 8 FT (2.4 m) BUT NOT MORE THAN 19 FT (5.8 m) ABOVE THE SIDEWALK OR, IF THERE IS NO SIDEWALK, ABOVE THE PAVEMENT GRADE AT THE CENTER OF THE ROADWAY.
- 3. THE BOTTOM OF THE SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARDS 877001, 877002, 877006, 877011 AND 877012 WITH A MINIMUM OF 16 FT (5.0 m) AND A MAXIMUM OF 18 FT, (5.5 m) FROM THE HIGHEST POINT OF PAVEMENT.
- 4. THE BOTTOM OF THE TEMPORARY SPAN WIRE MOUNTED SIGNAL HOUSING AND ANY RELATED ATTACHMENTS TO A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL BE ACCORDING TO CURRENT STATE STANDARD 880001 WITH A MINIMUM OF 17 FT (5.18 m) FROM THE HIGHEST POINT OF PAYEMENT.
- 5. THE TOP OF THE SIGNAL HOUSING OF A SIGNAL FACE LOCATED OVER ANY PORTION OF A HIGHWAY SHALL NOT BE MORE THAN 25.6 FT (7.8 m) ABOVE THE PAYEMENT.

TRAFFIC SIGNAL EQUIPMENT OFFSET

TRAFFIC SIGNAL EQUIPMENT	COMBINATION CONCRETE CURB AND GUTTER (MINIMUM DISTANCE FROM BACK OF CURB TO CENTERLINE OF FOUNDATION)	SHOULDER/NON-CURBED AREA (MINIMUM DISTANCE FROM EDGE OF PAYEMENT TO CENTERLINE OF FOUNDATION)
TRAFFIC SIGNAL MAST ARM POLE	6 FT (L8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
TRAFFIC SIGNAL POST	4 FT (1.2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
PEDESTRIAN SIGNAL POST	4 FT (1,2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM IO FT (3.0m)
PEDESTRIAN PUSHBUTTON POST	4 FT (1,2m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM IO FT (3.0m)
TEMPORARY WOOD POLE	6 FT (L8m)	SHOULDER WIDTH + 2 FT (0.6m), MINIMUM 10 FT (3.0m)
CONTROLLER CABINET	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (L.8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.
SERVICE INSTALLATION, GROUND MOUNT	6 FT (1.8m) MINIMUM DISTANCE SEE NOTE 2	SHOULDER WIDTH + 6 FT (L8m), MINIMUM 16 FT (4.9m) SEE NOTE 3.

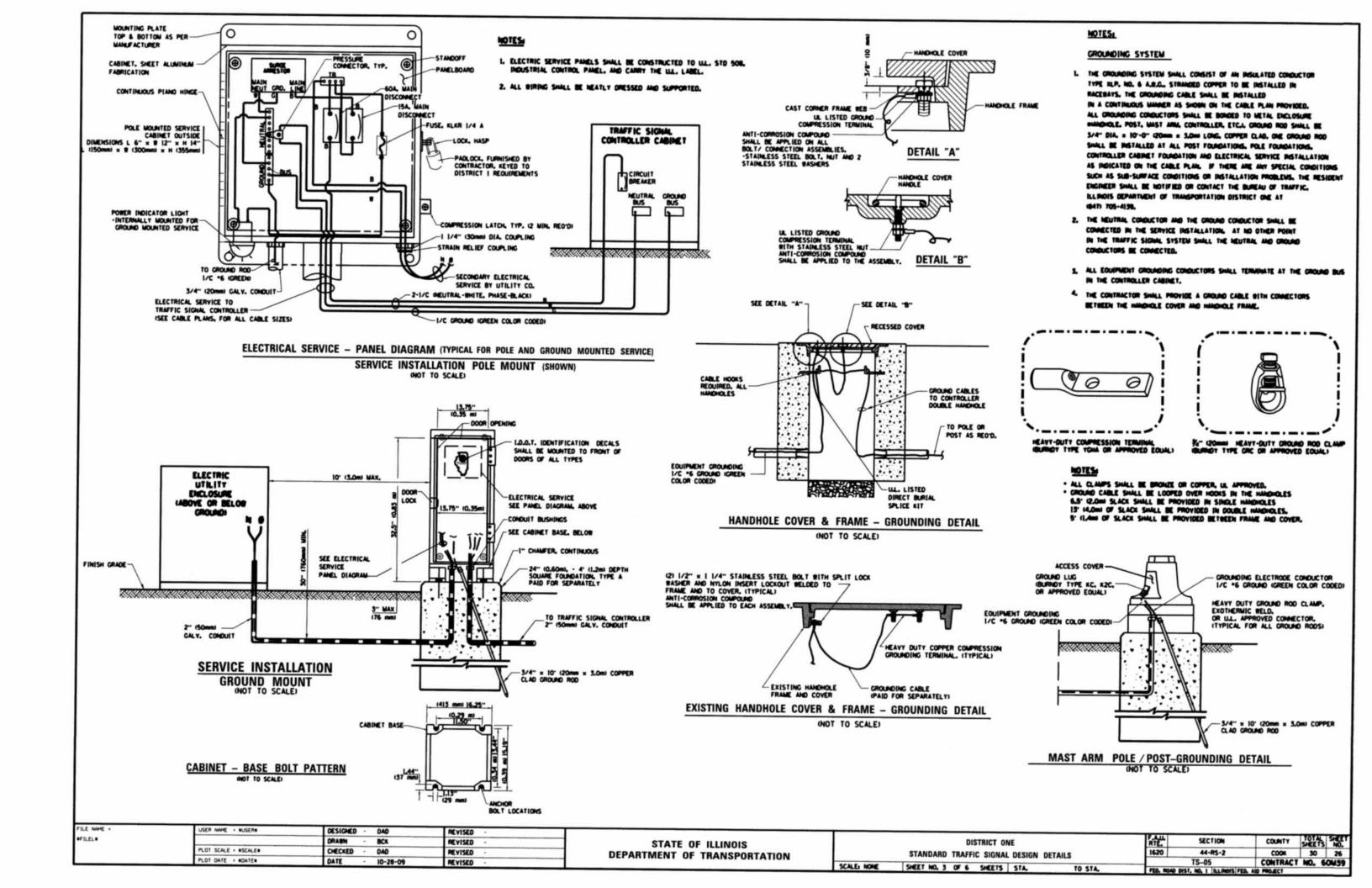
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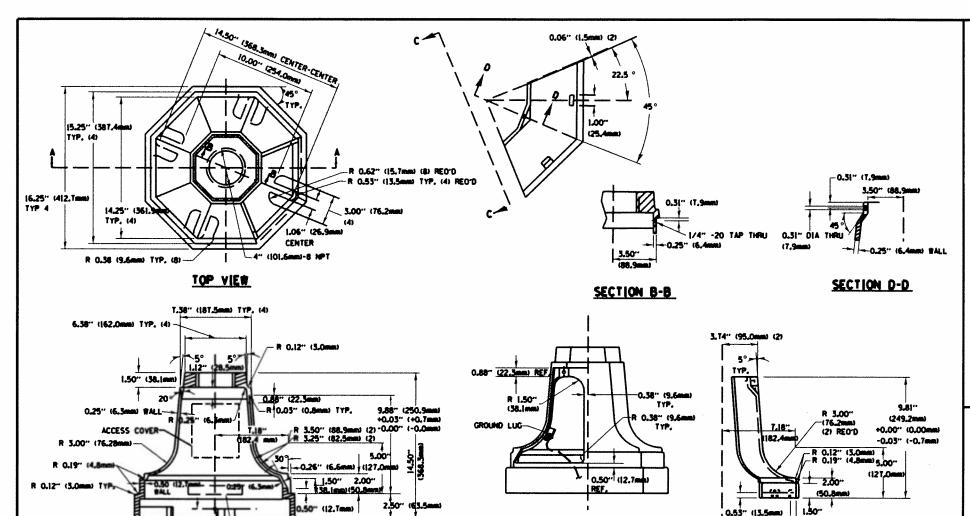
- 1. CONTACT THE "AREA TRAFFIC SIGNAL MAINTENANCE AND OPERATIONS ENGINEER" FOR ASSISTANCE IN LOCATING THE TRAFFIC SIGNAL EQUIPMENT WHEN THERE ARE CONFLICTS WITH DITCHES OR THE MINIMUM OFFSET DISTANCES CANNOT BE MET.
- 2. MINIMUM DISTANCE FROM THE BACK OF CURB TO THE ROADWAY SIDE OF THE FOUNDATION.
- 3. MINIMUM DISTANCE FROM THE EDGE OF PAVEMENT TO THE ROADWAY SIDE OF THE FOUNDATION.
- 4. ANY CHANGES TO THE OFFSETS OF THE FOUNDATIONS, FROM THE MINIMUM DISTANCES LISTED IN THE "TRAFFIC SIGNAL EQUIPMENT OFFSET" CHART AND THE TRAFFIC SIGNAL INSTALLATION PLAN, COULD EFFECT THE PLACEMENT OF THE SIGNAL HEADS, PEDESTRIAN SIGNAL HEADS AND THE PEDESTRIAN PUSHBUTTONS. THE SIGNAL HEAD PLACEMENT ON THE MAST ARMS SHALL REMAIN AS PER THE TRAFFIC SIGNAL INSTALLATION PLAN AND THE "TRAFFIC SIGNAL MAST ARM AND SIGNAL POST" DETAIL ABOVE. THE PROPOSED MAST ARM LENGTHS MAY NEED TO BE REVISED TO MEET THE ABOVE REQUIREMENTS. THE PEDESTRIAN SIGNAL HEADS AND PEDESTRIAN PUSHBUTTONS MUST MEET THE REQUIREMENTS UNDER THE DETAILS ON THIS SHEET.

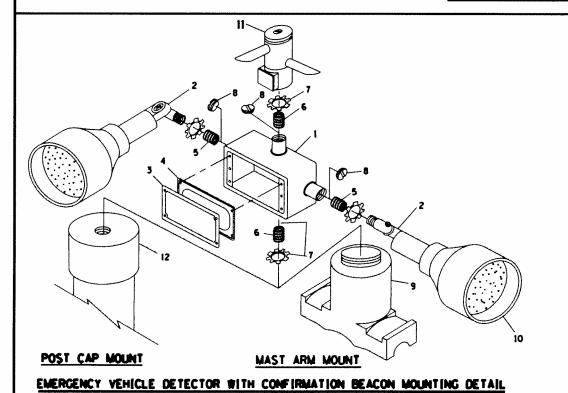
FILE NAME +	USER NAME . BUSERS	DESIGNED - DAD	REVISED -	
FILEL		DRAWN - BCK	REVISED -	
	PLOT SCALE . *SCALE*	CHECKED - DAD	REVISED -	
	PLOT DATE ODATES	DATE - 10-28-09	REVISED -	

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

 SCALE: NONE SHEET NO. 2 OF 6 SHEETS S		LEI NONE SHEET NO. 2 OF 6 SHEETS STA. TO ST		TO STA.	FED. ROAD D	HST. NO. 1 ILLINOIS FED		-100		
							TS-05	COMTRACT	NO. 6	PEMOS
	STANDAR	D TRAF	FIC SIGNA	L DESIGN D	ETAILS	1620	44-RS-2	COOK	30	25
1			DISTRICT O	NE		RTE	SECTION	COUNTY	SHEETS	SHEET NO.







CAST IN 1/8" (5.0mm) HIGH CHARACTERS

NAME OF COUNTRY OF ORIGIN

-1/4"-20 TAP THRU

0.50" (12.7mm) WALL"

1.00" (25.4

SECTION A-A

ITEM NO. IDENTIFICATION I OUTLET BOX- GALY, 21 CULIN, 10,000344 CU-M) 2 LAMP HOLDER AND COVER 3 OUTLET BOX COVER 4 RUBBER COVER GASKET 5 REDUCING BUSHING 6 74'119 mm) CLOSE NIPPLE 7 74'119 mm) LOCKNUT 8 74'119 mm) HOLE PLUG 9 SADOLE BRACKET - GALY, 10 6 MATT PAR 38 LED FLOOD LAMP 11 DETECTOR UNIT 12 POST CAP [18 FT, (5,4 m) POST MIN.]

(2) RE0'0

(38.1mm)

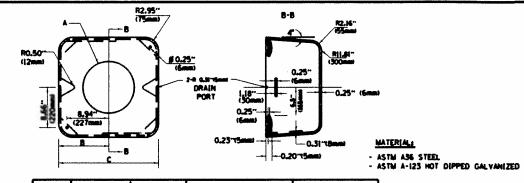
- 0.56" (14.2mm) (2) REO'D

NOTES:

VIEW C-C

TRAFFIC SIGNAL POST - MOUNTING BASE - TYPE A

- 1. ALL ELECTRICAL ITEMS, EXCEPT ITEMS *2 AND *11 SHALL BE ALUMINUM OR GALVANIZED
- 2. ITEM "1" OZ/GEDNEY FSX-1-50 OR EQUIVALENT
- ITEM "2- MULBERRY CON-O-SHADE LAMP SHIELD OR EQUIVALENT
- ITEM #9- "BAND-IT" SADDLE BRACKET OR EQUIVALENT
- 5. WHEN POST MOUNTING IS SPECIFIED, ITEM *9 SHALL NOT BE REQUIRED. THE DETECTION UNIT SHALL BE MOUNTED DIRECTLY ON TOP OF THE CAP BY DRILLING AND TAPPING A 1/419 must HOLE WITH PIPE THREADS. THE POST CAP SHALL EITHER BE SCREWED TO THE TOP OF THE POST OR A MINIMUM OF 3 TIGHTENING SCREWS SHALL BE REQUIRED ON EACH CAP.

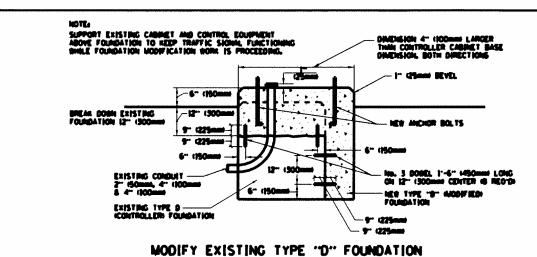


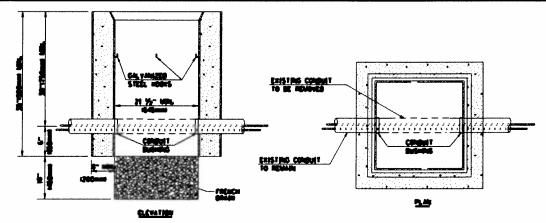
A		С	HEIGHT	MEIGHT
VARIES	9.5"(241mm)	19"1485mm	7" (178mm) - 12" (300mm)	53 bs (24kg)
VARIES	10.75"(275mm)	21.5°1546mm	7" ([78mm) - [2" (500mm)	68 bs (51 kg)
YARIES	13.0°1350mm)	26"(660mm)	7" (178mm) - 12" (500mm)	81 lbs (37 kg)
VARIES	18.5**470mm	37"1940mm)	7" (78mm) - 2" (500mm)	126 the (57 kg)

SHROUD

NOTES:

- 1. DIMENSION "A" IS COUAL TO THE DIAMETER OF THE MAST ARM POLE AT THE TOP OF THE SHROUD. THE SHROUD SMALL BE TIGHT TO THE MAST ARM POLE.
- 2. THE SUPPLIER SHALL VERIFIED THE ABOVE DIMENSIONS BASED ON MAST ARM REQUIREMENTS.
- 3. THE HEIGHT OF THE SHROUD SHALL COVER THE ANCHOR BOLTS, NUTS AND MAST ARM POLE BASE.



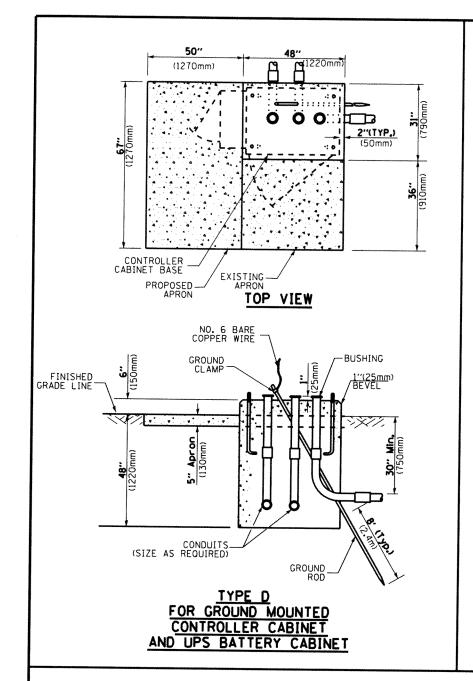


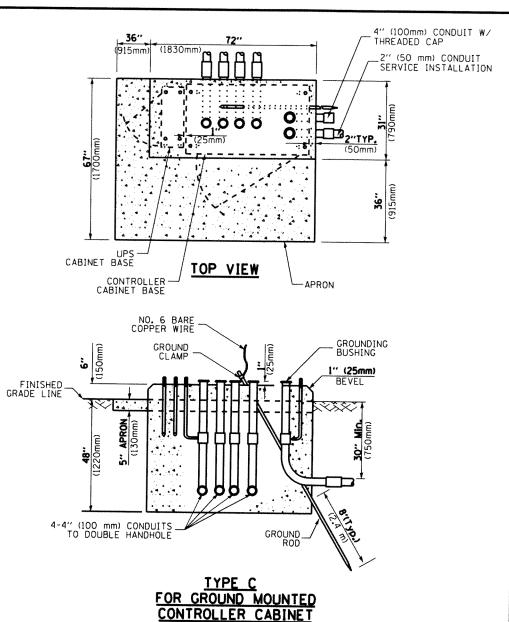
NOTES:

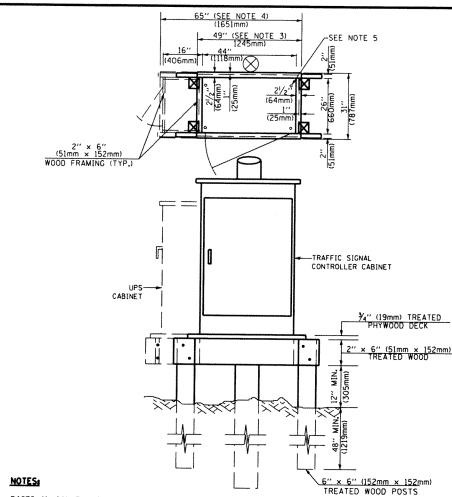
- L HANDHOLE CONSTRUCTED PER STATE STANDARD 814001.
- 2. REMOVAL OF THE EXISTING CONDUIT FROM THE HANDHOLE AND THE INSTALLATION OF THE CONDUIT BUSHINGS SHALL BE INCIDENTAL TO THE HANDHOLE.

HANDHOLE TO INTERCEPT EXISTING CONDUIT

	PLOT DATE : SDATES	I DATE -	10-26-09	REVISED -	1	SCALE: NOME SHEET NO. 4 OF 6 SHEETS STA. TO STA.	TEN BOAR	DIST. NO. 1 BLINGIS FEB.	MA PRO PCT		
		DATE -	10.00.00	20.1000				10-03	Continues :	, 100 V	777
1	PLOT SCALE : *SCALE*	CHECKED -	DAO	REVISED -	I DEPARTMENT OF TRANSPORTATION	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		TS05	COMTRACT	1 10. 6	14100
I .		CHECKED -	040		1	STANDARD TRAFFIC SIGNAL DESIGN DETAILS		44-83-2	COOK	30 '	27
#FILEL®	.	DRAWN -	BCX	REVISED -	STATE OF ILLINOIS	2.51	1620	44-83-2			
1			* *		1	DISTRICT ONE		260.100		ZIEE 12	NO.
FILE NAME .	USER NAME + BUSER®	DESIGNED -	DAO	REVISED -			ALL	SECTION	COUNTY	TOTAL	SEE







- BASED ON CONTROLLER CABINET TYPE IV WITH BASE DIMENSIONS OF 26" x 44" (660mm x 1118mm).
 ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- BASED ON UNINTERRUPTIBLE POWER SUPPLY CABINET WITH BASE DIMENSIONS OF 16" x 25" (406mm x 635mm), ADJUST PLATFORM SIZE TO FIT CABINET BASE DIMENSIONS BEING SUPPLIED.
- 3. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV.

Most Arm Length

Less than 30' (9,1 m)

Greater than or equal to 50' (9.1 m) and less than 40' (12.2 m)

Greater than or equal to 40' (12.2 m) and less than 50' (15.2 m)

Greater than or equal to 50' (15.2 m) and up to 55' (16.8 m)

Greater than or equal to 56' (16.8 m) and less than 65' (19.8 m)

Greater than or equal to 65' (19.8 m) and up to 75' (22.9 m)

- 4. PLATFORM SIZE FOR CONTROLLER CABINET TYPE IV AND UNINTERRUPTIBLE POWER SUPPLY CABINET.
- 5. ORILLED HOLES THROUGH THE PLATFORM BASE TO MATCH THE CONTROLLER CABINET BOLT TEMPLATE, FASTEN THE CONTROLLER CABINET TO THE PLATFORM WITH CARRIAGE BOLTS, WASHERS AND NUTS,
- 6. FASTEN ALL SUPPORT WOOD FRAMING TO THE WOOD POSTS WITH 2 LAG SCREWS FOR EACH CONNECTION.

TEMPORARY SIGNAL CONTROLLER WOOD SUPPORT PLATFORM

① Foundation Depth

10'-0" (3.0 m)

13'-6" (4,1 m) 11'-0" (3,4 m)

13'-0" (4.0 m)

15'-0" (4.6 m)

21'-0" (6.4 m)

25'-0" (7,6 m)

Foundation Diameter

30" (750mm

30" (750mm)

36" (900mm)

36" (900mm

36" (900mm

42" (1060mm

42" (1060mm)

Spiral Diameter

24" (600mm)

24" (600mm)

30" (750mm)

30" (750mm)

30" (750mm)

36" (900mm

36" (900mm)

Ouantity of Rebars

12

12

12

Size of Rebors

6(19)

6(19)

7(22)

7(22)

7(22)

8(25)

8(25)

CABLE SLACK LENGTH	FEET	METER
HANOHOLE	6.5	2.0
DOUBLE HANDHOLE	13.0	4.0
SIGNAL POST	2.0	0.6
MAST ARM	2.0	0.6
CONTROLLER CABINET	1.5	0.5
FIBER OPTIC AT CABINET	13.0	4.0
ELECTRIC SERVICE AT (CABINET OR SERVICE LOCATION)	1.5	0.5
GROUND CABLE (SIGNAL POST, MAST ARM, CABINET)	1.5	0.5
GROUND CABLE (BETWEEN FRAME AND COVER)	5.0	1.6

CABLE SLACK

VERTICAL CABLE LENGTH	FEET	METER
MAST ARM POLE (MAST ARM MOUNTED SIGNAL HEAD)		
IL * MAST ARM LENGTH - DISTANCE TO SIGNAL HEAD FROM END OF ARMS	20.0+L	6.0+L
BRACKET MOUNTED (MAST ARM POLE OR SIGNAL POLE)	13.0	4.0
PEDESTRIAN PUSH BUTTON	6.0	2.0
SERVICE INSTALLATION POLE MOUNT TO SERVICE DROP	13.5	4.1
SERVICE INSTALLATION POLE MOUNT TO GROUND	13.5	4.1
SERVICE INSTALLATION GROUND MOUNT	6.0	2.0
FOUNDATION (SIGNAL POST, MAST ARM POLE, CONTROLLER CABINET, SERVICE-GROUND MOUNT)	3.0	1.0

VERTICAL CABLE LENGTH	DEPTH OF FOUNDATION
-----------------------	---------------------

AND UPS BATTERY CABINET

FOUNDATION	DEPTH
TYPE A - Signal Post	4'-0" (1,2m)
TYPE C - CONTROLLER W/ UPS	4'-0" (1,2m)
TYPE D - CONTROLLER	4'-0" (1,2m)
SERVICE INSTALLATION, GROUND MOUNT, TYPE A - SOUARE	4'-0" (1.2m)

- These foundation depths are for sites which have cohesive soils (clayey sit, sandy clay, etc.) along
 the length of the shaft, with an average Unconfined Compressive Strength (0u) > 1.0 tsf (100 kpa).
 This strength shall be verified by boring data prior to construction or with testing by the Engineer
 during foundation drilling. The Bureau of Bridges & structures should be contacted for a revised
 design if other conditions are encountered.
- 2. Combination most arm assembles under 55 feet (16.8 m) shall use 36" (900 mm) diameter foundations.
- Combination most arm assemblies under 56 feet (16.8 m) through 75 feet (22.9 m) shall use 42" (1060 mm diameter foundations.
- 4. For most arm assemblies with dual arms refer to state standard 878001.

DEPTH OF MAST ARM FOUNDATIONS, TYPE E

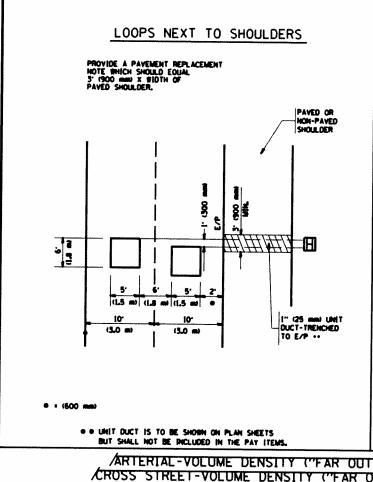
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	PLOT SCALE = *SCALE*	CHECKED	*	DAD	REVISED -	
	PLOT DATE = *DATE*	DATE	-	10-28-09	REVISED -	

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

DISTRICT ONE					F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
STANDARD TRAFFIC SIGNAL DESIGN DETAILS				1620	44-RS-2	COOK	30	28		
SCALE: NONE	SHEET NO. 5	OF 6	SHEETS	STA,	TO STA.	FEO. ROM	TS-05 D DIST. NO. 1 ILLINOIS FED. 1	CONTRACT	NO. (ON39

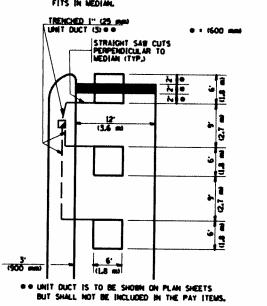
TRAFFIC SIGNAL LEGEND

ITEM	REMOVAL	EXISTING	PROPOSED	ITEM	REMOVAL	EXISTING	PROPOSED	<u>ITEM</u>	REMOVAL EXIS	TING PRODUCTO
CONTROLLER CABINET	⊠ ^R	\boxtimes	B	EMERGENCY VEHICLE LIGHT DETECTOR	R	∞	•4	ELECTRIC CABLE IN CONDUIT, TRACER,		<u> </u>
RAILROAD CONTROL CABINET	Manage Market			CONFIRMATION BEACON	R _{O-0}	7	-	NO. 14 1/C. UNLESS NOTED OTHERWISE	—	
COMMUNICATIONS CABINET	CC R	ECC	[22]		•	9 (-	COAXIAL CABLE	 (0	— ——
MASTER CONTROLLER	Bourdinous	[EMC]	WC	HANDHOLE	R	Ø			,	
MASTER MASTER CONTROLLER		EMMC	(MC)	HEAVY DUTY HANDHOLE	^R ⊞	H	E	VENDOR CABLE FOR CAMERA	— <u>(</u> v	
UNINTERRUPTIBLE POWER SUPPLY	[UPS]	EUPS	UPS	DOUBLE HANDHOLE	R	Z Z	5	COPPER INTERCONNECT CABLE.	ŕ	/ -
SERVICE INSTALLATION, (P) POLE OR (G) GROUND MOUNT	-O- ^R	-O- ^p	- m P	JUNCTION BOX	RO	0		NO. 18 3 PAIR TWISTED, SHIELDED	-6	├ -©-
TELEPHONE CONNECTION (P) POLE OR (G) GROUND MOUNT	R	P	_ 	GALYANIZED STEEL CONDUIT IN TRENCH (T) OR PUSHED (P)				FIBER OPTIC CABLE NO. 62.5/125, MM12F	-(12)	5_
STEEL MAST ARM ASSEMBLY AND POLE	R	0		TEMPORARY SPAN WIRE, TETHER WIRE, AND CABLE	R			FIBER OPTIC CABLE NO. 62.5/125, MMI2F SMI2F	-24	——20 —
ALUMINUM MAST ARM ASSEMBLY AND POLE	R			COMMON TRENCH				FIBER OPTIC CABLE NO. 62.5/125,		
STEEL COMBINATION MAST ARM		a w		COILABLE NONMETALLIC CONDUIT (EMPTY)			CT	(NUMBER OF FIBERS & TYPE TO BE NOTED ON PLANS)		├ -○ -
ASSEMBLY AND POLE WITH LUMINAIRE	"O-≭	O-X	• X	SYSTEM ITEM		S	CNC S	GROUND ROD AT (C) CONTROLLER.		
STEEL COMBINATION MAST ARM ASSEMBLY AND POLE WITH PTZ CAMERA	R PTQ	Pile	1	INTERSECTION ITEM		ı	ΙP	(H) HANDHOLE, (P) POST, (M) MAST ARM, OR (S) SERVICE	c'll	· 4-
SIGNAL POST	R _O	0	•	REMOVE ITEM	R			CONTROLLER CABINET AND FOUNDATION TO BE REMOVED	RCF	
TEMPORARY WOOD POLE (CLASS 5 OR BETTER) 45 FOOT (13.7m) MINIMUM	$\overset{R}{\otimes}$	\otimes	•	RELOCATE ITEM ABANDON ITEM	RL					
GUY WIRE	> R	`>-	>	12" (300mm) TRAFFIC SIGNAL SECTION	A	62	(STEEL MAST ARM POLE AND FOUNDATION TO BE REMOVED	RMF	
SIGNAL HEAD	R	>	-	15 COOMIN THAPPIC STORAL SECTION		R	R	ALUMINUM MAST ARM POLE AND	RMF	
SIGNAL HEAD CONSTRUCTION STAGES (NUMBERS INDICATE THE CONSTRUCTION STAGE)	>)	;" ~	→²	12" (300mm) RED WITH 8" (200mm) YELLOW AND GREEN TRAFFIC SIGNAL FACE		23		FOUNDATION TO BE REMOVED STEEL COMBINATION MAST ARM ASSEMBLY		
SIGNAL HEAD WITH BACKPLATE	+(>R	+⊳	+►			R	R	AND POLE WITH LUMINAIRE AND FOUNDATION TO BE REMOVED	RMF O -X ———	
SIGNAL HEAD OPTICALLY PROGRAMMED	R	-D·'p''	>*₽ **	5100.11 5.405		\square		SIGNAL POST AND FOUNDATION		
FLASHER INSTALLATION			SIGNAL FACE			Y G +Y +G	TO BE REMOVED	RMF		
(S DENOTES SOLAR POWER)	O- > ′F″	O- ⊳ ″F″	◆→ " [∓] "			•	+6	INTERSECTION & SAMPLING (SYSTEM) DETECTOR	[IS	IS
PEDESTRIAN SIGNAL HEAD	-D	-0	-1			R	R	SAMPLING (SYSTEM) DETECTOR	r 1 S	S
PEDESTRIAN PUSHBUTTON DETECTOR	R	@APS	(© APS	SIGNAL FACE WITH BACKPLATE. "P" INDICATES PROGRAMMED HEAD			7 G +7	EXISTING INTERSECTION LOOP DETECTOR	· · · · · ·	•
ACCESSIBLE PEDESTRIAN PUSHBUTTON DETECTO	R ® APS							PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	P	
ILLUMINATED SIGN	R		_			"P"	+G '₽''	EXISTING PREFORMED INTERSECTION LOOP DETECTOR	PP	
'NO LEFT TURN"	9	9	9	12" (300mm) PEDESTRIAN SIGNAL HEAD		6W	-	PROPOSED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR		
LLUMINATED SIGN 'NO RIGHT TURN"	^R ⊗	®	(A)	WALK/DON'T WALK SYMBOL				PREFORMED INTERSECTION AND SAMPLING (SYSTEM) DETECTOR	PIS	PIS
			®	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, OUTLINED				PREFORMED SAMPLING (SYSTEM) DETECTOR	PS	
DETECTOR LOOP, TYPE		[_					, <u>an</u>			
PREFORMED DETECTOR LOOP		[P]	Р	12" (300mm) PEDESTRIAN SIGNAL HEAD INTERNATIONAL SYMBOL, SOLID			P	RAILROAD S	2 IORMY2	
MICROWAVE VEHICLE SENSOR			PEDESTRIAN SIGNAL HEAD, INTERNATIONAL SYMBOL, WITH COUNTDOWN TIMER			₽ C	IIAILIIVAD			
VIDEO DETECTION CAMERA	R (V) 1	∇	Ø		, is				EXISTING	PROPOSED
VIDEO DETECTION ZONE				RADIO INTERCONNECT	 0	##+0		RAILROAD CONTROL CABINET		\triangleright
	n	!!!!!!		RADIO REPEATER	RERR	ERR	RR	RAILROAD CANTILEVER MAST ARM	XOX	∀ ¥€
AN, TILT, ZOOM CAMERA	P	P	(3)	DENOTES NUMBER OF CONDUCTORS, ELECTRIC		*		FLASHING SIGNAL	∑o ∑	X O X
PIRELESS DETECTOR SENSOR	RW	W	W	CABLE NO. 14, UNLESS NOTED OTHERWISE, ALL DETECTOR LOOP CABLE TO BE SHIELDED			-3-	CROSSING GATE	∑0∑ >	X O X=
VIRELESS ACCESS POINT	R			GROUND CABLE IN CONDUIT NO. 6 SOLID COPPER (GREEN)			-0-	CROSSBUCK	₹	*
E NAME = USER NAME = #USER#		IGNED - DAG/BCK	REVISED -	THE STATE OF THE WILLIAM		~				
PLOT SCALE = \$SCALE\$	DRA CHE		REVISED -		OF ILLINOIS			DISTRICT ONE	RTE. SECTION	SPEC 13
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LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING)

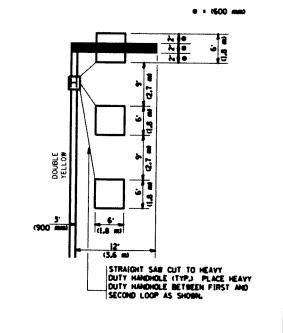
MANDRUE LOCATION MAY
VARY DEPENDING ON GEOMETRICS
AND DESIGN OF TRAFFIC SIGNALS.
MEAVY-DUTY HAMPHOLES TO BE
USED WHEN THE MEDIAN IS
MOUNTABLE. REFER TO STANDARD
814001 TO ENSURE THAT HAMPHOLE
FITS IN MEDIAN.



NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

<u>EFT TURN LANES WITHOUT MEDIANS</u> VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

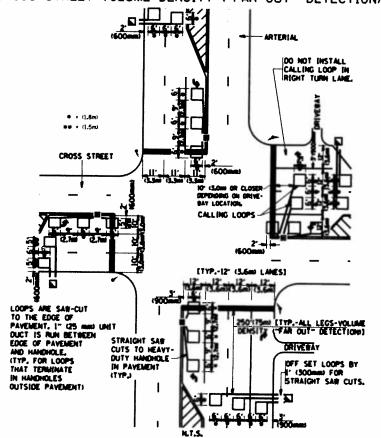


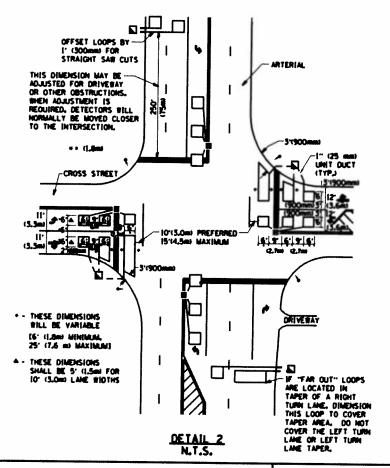
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

SCALE: NONE

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

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





NOTES

VEHICLES LOOP DETECTORS

- . ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED.
- . EACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CUT FROM THE LOOP TO THE EDGE OF PAVEMENT OR TO A HANDHOLE IN THE PAVEMENT.
- . EACH DETECTOR LOOP SHALL HAVE ITS OWN ONE INCH (25 mm) UNIT DUCT BETWEEN THE EDGE OF PAVEMENT AND THE FIRST HANDHOLE OR JUNCTION BOX, EACH UNIT DUCT RUN SHALL BE SHOWN ON THE PLANS BY THE DESIGNER, BUT SHALL NOT BE PAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- . ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FEET
- . EACH LANE OF NON-LOCKING, PRESENCE DETECTION AND EACH LANE OF A DOUBLE LEFT TURN LANE REQUIRES A SEPARATE INDUCTIVE LOOP DETECTOR AND LEAD IN CABLE.
- . WHEN NON-LOCKING, PRESENCE DETECTION IS USED, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (l.e. 1-1/2, 1-3/4, 2).
- . WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN. WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

PLACEMENT OF DETECTORS

THE FOLLOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON ALL SIGNAL LAYOUT PLAN SHEETS.

"FAR OUT" DETECTION REFERS TO LOCKING, PRESENCE TYPE DETECTION LOCATED IN THRU LANES, RIGHT TURN LANES, AND RIGHT TURN LANE TAPER AREAS (IF APPLICABLE), USUALLY 250' (75 m) IN ADVANCE OF STOP BARS. "UPTIGHT" DETECTION REFERS TO NON-LOCKING PRESENCE TYPE DETECTION LOCATED IN ALL LANES AND 10'-15' (3.0 m-4.5 m) BEHIND THE CROSSING STREET'S EDGE OF PAVEMENT EXTENDED.

ALL DETAILS AND NOTES SHOWN ARE FROM THE 1.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.

FILE NAME .	USER NAME = BUSERB	DESIGNED -	MEVISED -					
#F1LEL#		DRAMM -	NEVISED -					
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	PLOT DATE x *DATE*	DATE -	REVISED -					

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING SHEET NO. 1 OF ! SHEETS STA. TO STA

SHEETS NO. SECTION COUNTY 1620 COOK 44-85-2 30 30 CONTRACT NO. 60N59 TS-07 FED. NOAD DIST. NO. | KLLMOIS FEB. AND PROJECT