#### INDEX OF SHEETS COVER SHEET: INDEX OF SHEETS, LOCATION MAP, INDEX OF DISTRICT 1 DETAILS, GENERAL CONSTRUCTION NOTES, INDEX OF HIGHWAY STANDARDS 2.) SUMMARY OF QUANTITIES 3.) TYPICAL SECTIONS, HOT-MIX ASPHALT MIXTURE REQUIREMENTS PLAN: LAWNDALE AVENUE (RESURFACING) PLAN: LAWNDALE AVENUE (PAVEMENT MARKINGS) INDEX OF DISTRICT 1 DETAILS BD-08 DETAILS FOR FRAMES AND LIDS ADJUSTMENTS WITH MILLING BD-22 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT BD-32 BUTT JOINT AND HMA TAPER DETAILS TRAFFIC CONTROL & PROTECTION FOR SIDE ROADS, INTERSECTIONS, & DRIVEWAYS TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKINGS (SNOW PLOW RESISTANT) TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS TC-16 PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING **ᆜ** 16.) TC-22 ARTERIAL ROAD INFORMATION SIGN (J 17.) TS-05 STANDARD TRAFFIC SIGNAL DESIGN DETAILS TS-07 DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING IAUMBU INDEX OF HIGHWAY STANDARDS SEE SHEET 2 **DESIGN DESIGNATION** TRAFFIC DATA ADT: LAWNDALE AVENUE LOCAL 3000 (2013) DESIGN SPEED POSTED SPEED 30 MPH (EXISTING) 30 MPH (EXISTING) 30 MPH (PROPOSED) 30 MPH (PROPOSED) (847)705 1"=100" 1"=50" 1"=40" FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED. JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION Know what's below. Call before you dig. CALL 811 Frank Novotny & Associates, Inc. 825 Midway Drive • Willowbrook, IL • 60527 • Telephone: (630) 887-8640 • Fax: (630) 887-0132 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000928 FNA PROJECT NO. 10070 DRAWN/DESIGNED JFP/JLC CHECKED/APPROVED THK/JLC SION 1 JLC 1/2/15

CONTRACT NO. 61B15

STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION **DIVISION OF HIGHWAYS** 

# PLANS FOR PROPOSED FEDERAL AID HIGHWAY **FAU 2792 (LAWNDALE AVENUE)**

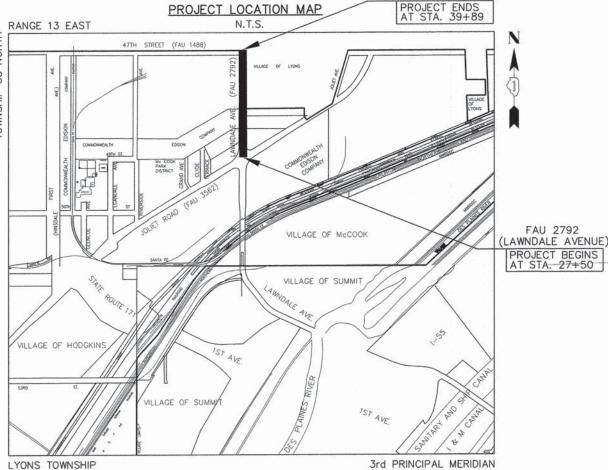
FAU 3562 (JOLIET ROAD) TO FAU 1488 (47TH STREET)

RESURFACING

**SECTION 12-00018-00-RS** PROJECT M-4003(084)

VILLAGE OF McCOOK **VILLAGE OF LYONS** COOK COUNTY

FAU 2792 JOB NO: C-91-011-13 (LAWNDALE AVENUE) PROJECT LOCATION MAP N.T.S. 47TH STREET (FAU 1488



DENOTES LOCATION OF IMPROVEMENT

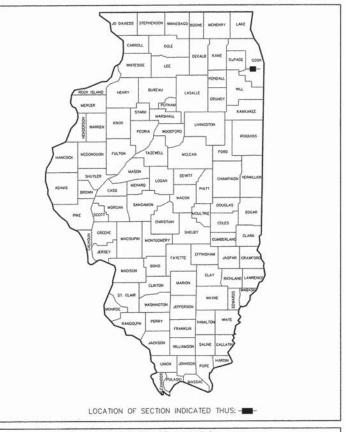
LENGTH OF PROJECT

GROSS LENGTH OF PROJECT NET LENGTH OF PROJECT

1,248 FEET (0.24 MILES) 1,248 FEET (0.24 MILES)

COUNTY FAU 2792 12-00018-00-RS COOK F.H.W.A. REG. ILLINOIS PROJECT M-4003(084)

CONTRACT NO. 61B15







PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

#### GENERAL CONSTRUCTION NOTES

#### PAVING AND STORM SEWERS

#### **SPECIFICATIONS**

SPECIFICATIONS
THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION", THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS", PREPARED BY THE ILLINOIS DEPARTMENT OF TRANSPORTATION AND THE "MANUAL OF UNIFORM TRAFFIC CONTROL DEVICES" SHALL GOVERN ALL WORK ASSOCIATED WITH THIS PROJECT. THE "STANDARD SPECIFICATIONS FOR WATER AND SEWER MAIN CONSTRUCTION IN ILLINOIS" MAY GOVERN OTHER WORK ON THIS PROJECT AS INDICATED BY REFERENCE.

CARE SHALL BE EXERCISED BY THE CONTRACTOR IN CARRYING OUT EARTH AND/OR TRENCHING OPERATIONS SO THAT LOCAL UTILITY SERVICES, WATER VALVES, MANHOLES, CATCH BASINS, INLETS, BUFFALO BOXES, AND OTHER STRUCTURES ARE NOT DAMAGED OR REMOVED. ANY DAMAGE DONE BY THE CONTRACTOR, WHETHER THE STRUCTURE OR SERVICE IS VISIBLE AT THE GROUND SURFACE OR NOT, SHALL BE REPAIRED OR REPLACED BY THE CONTRACTOR IN ACCORDANCE WITH ARTICLE 105.07 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION"

#### NOTIFICATION OF PUBLIC UTILITIES

PRIOR TO STARTING CONSTRUCTION, THE CONTRACTOR SHALL NOTIFY THE OFFICIALS OF THE PUBLIC WORKS DEPARTMENT OF THE LOCAL MUNICIPALITIES AT (708)466-2646, LYONS, (708)447-2276, McCOOK, J.U.L.I.E. AT 1-800-892-0123 OR 811, AND OTHER PUBLIC AND PRIVATE UTILITIES SO THAT ARRANGEMENTS CAN BE MADE TO LOCATE THEIR VARIOUS FACILITIES WITHIN THE LIMITS OF CONSTRUCTION UNDER THIS CONTRACT, AS WELL AS TO PROVIDE ADEQUATE PROTECTION AND INSPECTION THERETO. IT SHALL BE THIS CONTRACTOR'S RESPONSIBILITY TO DETERMINE THE ACTUAL LOCATION OF ALL SUCH FACILITIES IN THE FIELD.

#### TRAFFIC CONTROL DEVICES

BARRICADES AND WARNING SIGNS SHALL BE PROVIDED IN ACCORDANCE WITH ARTICLE 107.14 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

#### PROTECTION OF SIGNS AND PROPERTY

ALL TRAFFIC SIGNS, STREET SIGNS, ETC., THAT INTERFERE WITH THE CONSTRUCTION OPERATIONS SHALL BE REMOVED AND PLACED AT NEW LOCATIONS AS DESIGNATED BY THE ENGINEER. THIS WORK SHALL BE CONSIDERED INCLUDED IN THE COST OF "MOBILIZATION", AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED. IN ADDITION, ALL MAIL BOXES THAT INTERFERE WITH CONSTRUCTION SHALL BE SIMILARLY RELOCATED AT NO ADDITIONAL COST IN ACCORDANCE WITH ARTICLES 107.20 AND 107.21 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

SPECIAL ATTENTION IS DRAWN TO ARTICLE 105.06 OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" WHICH REQUIRES THE CONTRACTOR TO HAVE A COMPETENT SUPERINTENDENT ON THE PROJECT SITE AT ALL TIMES, IRRESPECTIVE OF THE AMOUNT OF WORK SUBLET. THE SUPERINTENDENT SHALL BE CAPABLE OF READING AND UNDERSTANDING THE PLANS AND SPECIFICATIONS, SHALL HAVE FULL AUTHORITY TO EXECUTE ORDERS TO EXPEDITE THE PROJECT AND SHALL BE RESPONSIBLE FOR SCHEDULING AND HAVING CONTROL OF ALL THE WORK AS THE AGENT OF THE GENERAL CONTRACTOR. FAILURE TO COMPLY WITH THIS PROVISION WILL RESULT IN A SUSPENSION OF WORK AS PROVIDED IN ARTICLE 108.07.

#### SAWING EXISTING IMPROVEMENTS

ALL PERMANENT TYPE PAVEMENTS OR OTHER PERMANENT IMPROVEMENTS WHICH ABUT THE PROPOSED IMPROVEMENT AND MUST BE REMOVED, SHALL BE SAWED AS DIRECTED PRIOR TO REMOVAL. ALL ITEMS SO REMOVED SHALL BE REPLACED WITH SIMILAR CONSTRUCTION MATERIALS TO THEIR ORIGINAL CONDITION OR BETTER. PAYMENT FOR SAWING SHALL BE INCLUDED IN THE COST FOR THE REMOVAL OF EACH ITEM, AND REPLACEMENT WILL BE PAID FOR UNDER THE RESPECTIVE ITEMS IN THE CONTRACT UNLESS OTHERWISE INDICATED. SAW CUITINING FOR PATCHES WILL BE INCLUDED IN THE COST OF TO THE PATCHING ITEM. EXISTING ORIVEWAY PAVEMENT AND SIDEWAMIN IN PLACE SHALL BE SAWCUT TO PROVIDE A NEAT VERTICAL FACE BETWEEN THE PROPOSED AND THE EXISTING, AND SUCH COST SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

#### CONSTRUCTION LAYOUT STAKES

THE CONTRACTOR SHALL PROVIDE THE ENGINEER WITH WOODEN STAKES OR OTHER LAYOUT MATERIALS FOR LAYOUT OF THE LINES AND GRADES OF THE PROJECT. FAILURE TO PROVIDE STAKES IN A TIMELY MANNER WILL RESULT IN A DELAY IN STAKEOUT WHICH WILL BE APPLICABLE AGAINST THE TIME LIMIT FOR COMPLETION SHOWN IN THE PROJECT SPECIFICATIONS. LINE AND GRADE WILL BE ESTABLISHED BY THE ENGINEER AT REGULAR INTERVALS ON PERMANENTLY PAVED SURFACES, SIDEWALKS OR STAKES AT THE ENGINEER'S OPTION, ALL WITHIN THE PUBLIC RIGHT-OF-WAY AND SHALL BE TRANSFERRED BY THE CONTRACTOR TO THE ACTUAL LINE OF CONSTRUCTION.

#### PROJECT SAFETY

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 1-1/2 INCHES WHERE THE SPEED LIMIT IS 45 MPH OR LESS AND 1 INCH WHERE THE SPEED LIMIT IS GREATER THAN 45 MPH. WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (V:H).

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

THE CONTRACTOR SHALL COMPLY WITH AND OBSERVE THE RULES AND REGULATIONS OF O.S.H.A. AND APPROPRIATE AUTHORITIES REGARDING SAFETY PROVISIONS. THE CONTRACTOR, ENGINEER, AND OWNER SHALL EACH BE RESPONSIBLE FOR THEIR OWN RESPECTIVE AGENTS AND EMPLOYEES.

THE ENGINEER AND OWNER ARE NOT RESPONSIBLE FOR THE CONSTRUCTION MEANS, METHODS, TECHNIQUES, SEQUENCES OR PROCEDURES, TIME OF PERFORMANCE, PROGRAMS, OR FOR ANY SAFETY PRECAUTIONS USED BY THE CONTRACTOR. THE CONTRACTOR IS SOLELY RESPONSIBLE FOR EXECUTION OF HIS WORK IN ACCORDANCE WITH THE DOCUMENTS AND SPECIFICATIONS.

THE RESIDENT ENGINEER SHALL CONTACT THE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS PRIOR TO THE PLACEMENT OF ANY TEMPORARY TRAFFIC CONTROL DEVICES.

#### MISCELLANEOUS

ALL PATCHING ON THE HOT-MIX ASPHALT PORTAINS OF THIS PROJECT WILL BE MARKED OUT AND CONSTRUCTED AFTER MILLING. A PROOF ROLL WILL BE REQUIRED PRIOR TO PATCHING

PROTECTIVE COAT SHALL BE USED ON ALL PORTLAND CEMENT CONCRETE SURFACE IN ACCORDANCE WITH ARTICLES 420.21, 420.22, AND 420.23 OF THE STANDARD

BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES (AND RAISED REFLECTIVE PAVEMENT MARKERS) IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING. EXACT LOCATIONS OF ALL PAVEMENT MARKINGS SHALL BE AS DIRECTED

#### INDEX OF HIGHWAY STANDARDS

000001-06 STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS

442201-03 CLASS C AND D PATCHES

606001-06 CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB & GUTTER

701301-04 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701311-03 LANE CLOSURE, 2L, 2W, MOVING OPERATIONS-DAY ONLY

701501-06 URBAN LANE CLOSURE, 2 L, 2 W UNDIVIDED

701701-09 URBAN LANE CLOSURE, MULTILANE INTERSECTION

701901-04 TRAFFIC CONTROL DEVICES

780001-05 TYPICAL PAVEMENT MARKINGS

Frank Novotny & Associates, Inc. 825 Midway Drive + Willowbrook, IL + 60527 + Telephone: (630) 887-8640 + Fax: (630) 887-01 ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000928

VILLAGE OF McCOOK FILE NAME = LAWNDALE AVENUE JOLIET ROAD TO 47TH STREET RESURFACING

USER NAME =	DESIGNED - THK	REVISED - JLC 1/2/15
	DRAWN - JFP-JEP	REVISED -
PLOT SCALE =	CHECKED - JLC	REVISED —
PLOT DATE =	DATE - 10/28/14	REVISED -

SHEET NO OF SHEETS STA

SCALE: NONE

Specialty	Special	Code			Total	Construction Code
Item	Provision	No	Item	Unit	Quantity	Roadway 0005
		25200110	SODDING, SALT TOLERANT	SQ YD	90	90
		21101615	TOPSOIL FURNISH AND PLACE, 4"	SQ YD	90	90
	SP	40600275	BITUMINOUS MATERIALS (PRME COAT)	POUND	2381	2381
		40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	5	5
		40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	304	304
		40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	120	120
		40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	462	462
		42300600	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 10 INCH	SQ YD	44	44
		44000159	HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/2"	SQ YD	5291	5291
		44000133	DRIVEWAY PAVEMENT REMOVAL	SQ YD	44	44
				SQ YD	27	27
		44201789	CLASS D PATCHES, TYPE II, 12 INCH			
		44201794	CLASS D PATCHES, TYPE III, 12 INCH	SQ YD	63	63
		44201796	CLASS D PATCHES, TYPE IV, 12 INCH	SQ YD	183	183
		67100100	MOBILIZATION	L SUM	1	11
		70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	L SUM	1	1
		70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1	1
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	130	130
*		78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	728	728
*		78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	1417	1417
*		78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	470	470
*		78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	129	129
*		78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	41	41
*		88600600	DETECTOR LOOP REPLACEMENT	FOOT	579	579
	SP	X6030310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	4	4
	SP	Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	60	60
	SP	Z0004562	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	540	540

Frank Novotny & Associates, Inc.

825 Midway Drive + Willowbrook, IL + 00527 + Telephone (830) 887-8840 - Fax (830) 887-9132

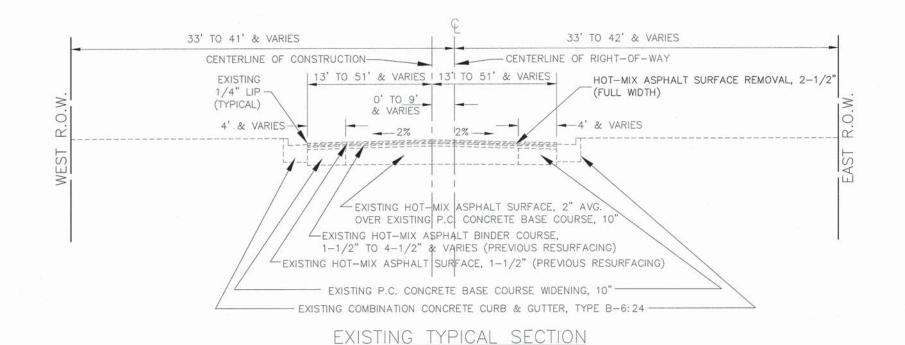
ILINOIS PROFESSIONAL DESIGN FIRM NO. 184-00628

1	FILE	NAME	=	VILL	AGE	OF	McC	COOK
							AVE	NUE
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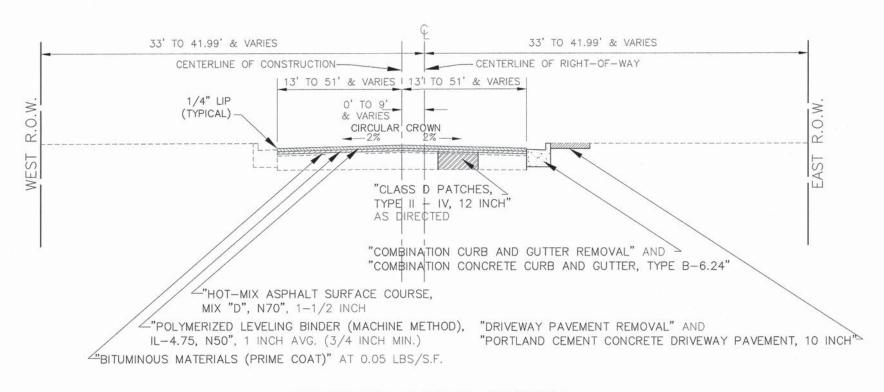
USER NAME =	DESIGNED - THK	REVISED - JLC 1/2/15
	DRAWN - JFP-JEP	REVISED -
PLOT SCALE =	CHECKED - JLC	REVISED -
PLOT DATE =	DATE - 10/28/14	REVISED -

STATE OF ILLINOIS	i
DEPARTMENT OF TRANSPO	RTATION

						F.A.U. RTE.	SE	CTION	COUNTY	TOTAL	SHEET NO.	
	SUMMARY OF QUANTITIES						2792	12-00018-00-RS		COOK	18	3
								-		CONTRA	CT NO. 6	1B15
SCALE:	NONE	SHEET NO.	OF	SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO.	ILLINOIS FED. AI	D PROJECT	M-4003(0	084)



STA. 27+50 TO STA. 39+89, LAWNDALE AVENUE



#### PROPOSED TYPICAL SECTION

STA. 27+50 TO STA. 39+89, LAWNDALE AVENUE

FILE NAME = VILLAGE OF MCCOOK

LAWNDALE AVENUE
JOUET ROAD TO 47TH STREET
RESURFACING

PLOT DATE = DATE - 10/28/14 REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

# TYPICAL SECTIONS HOT-MIX ASPHALT MIXTURE REQUIREMENTS 1"=5" SHEET NO. OF SHEETS STA. TO STA.

| Frank Novotny & Associates, Inc. | \$55 \text{Edistry Drive + Willburbook, IL + 60527 + Felephone (630) 887-8610 + Fax (630) 887-0120 | \$150 \text{Monigorial Commitments} | \text{ILLINOS PROFESSIONAL DESIGN FIRM NO. 184-00088} | F.A.U. | SECTION | COUNTY | TOTAL SHEETS | NO. | TOT

#### NOTE: CONTRACTOR SHALL MILL BEFORE PATCHING.

HOT-MIX ASPHALT MIXTURE REQUIR	REMENTS
MIXTURE TYPE	AIR VOIDS @ NDES
ROADWAY HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, (IL-9.5mm), 1-1/2"	4% @ 50 GYR
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, 1 INCH AVG. (3/4 INCH MIN.)	3.5% @ 50 GYR
PATCHING CLASS D PATCHES, TYPE II-IV, 12" (HMA BINDER COURSE, IL-19 mm), 12" (IN 3 LIFTS)	4% @ 70 GYR

THE UNIT WEIGHT TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/IN.

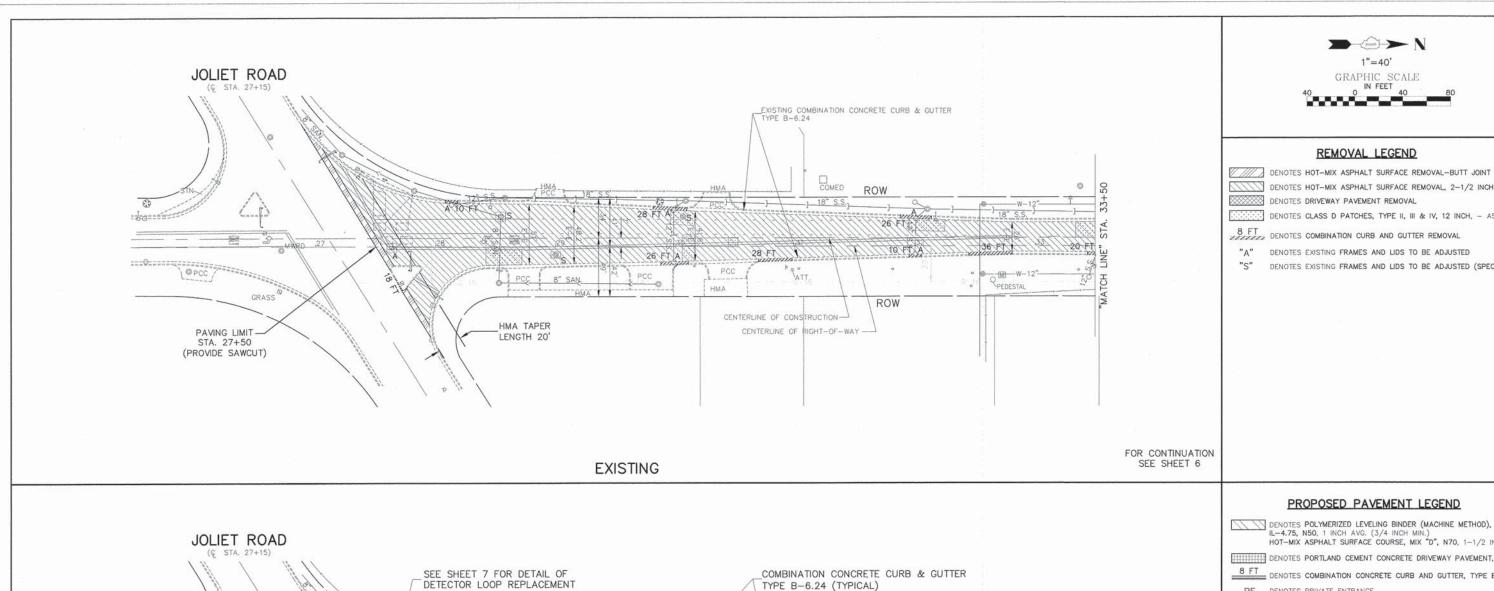
"THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76-22" AND
FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22"
UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS"

FOR HMA FULL DEPTH "AC TYPE" SEE SPECIAL PROVISIONS

FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS

#### IMPORTANT!

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.





DENOTES HOT-MIX ASPHALT SURFACE REMOVAL, 2-1/2 INCH

DENOTES CLASS D PATCHES, TYPE II, III & IV, 12 INCH, - AS DIRECTED

DENOTES EXISTING FRAMES AND LIDS TO BE ADJUSTED

DENOTES EXISTING FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)

#### PROPOSED PAVEMENT LEGEND

DENOTES POLYMERIZED LEVELING BINDER (MACHINE METHOD). IL-4.75, N50, 1 INCH AVG. (3/4 INCH MIN.) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70, 1-1/2 INCH

DENOTES PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 10 INCH

E DENOTES COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24

PE DENOTES PRIVATE ENTRANCE

CE DENOTES COMMERCIAL ENTRANCE

ALL SAW CUTS SHALL BE CONSIDERED INCLUDED IN THE COST OF THE ITEM BEING REMOVED.

FOR TYPICAL SECTIONS OF NEW PAVEMENT WORK SEE SHEET 4

#### IMPORTANT!

FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES INDICATED IN TITLE BLOCK.

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VILLAGE OF McCOOK LAWNDALE AVENUE JOLIET ROAD TO 47TH STREET RESURFACING

PCC PCC

GRASS

FAU 2792 (LAWNDALE AVENUE)

PROJECT BEGINS STA. 27+50

REVISED - JLC 1/2/15DRAWN - JEP-JFP REVISED -CHECKED - JLC LOT SCALE = REVISED -LOT DATE =

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION** 

CENTERLINE OF CONSTRUCTION

**PROPOSED** 

LAWNDALE AVENUE

CENTERLINE OF RIGHT-OF-WAY ---

TYPE B-6.24 (TYPICAL)

COMED

ROW

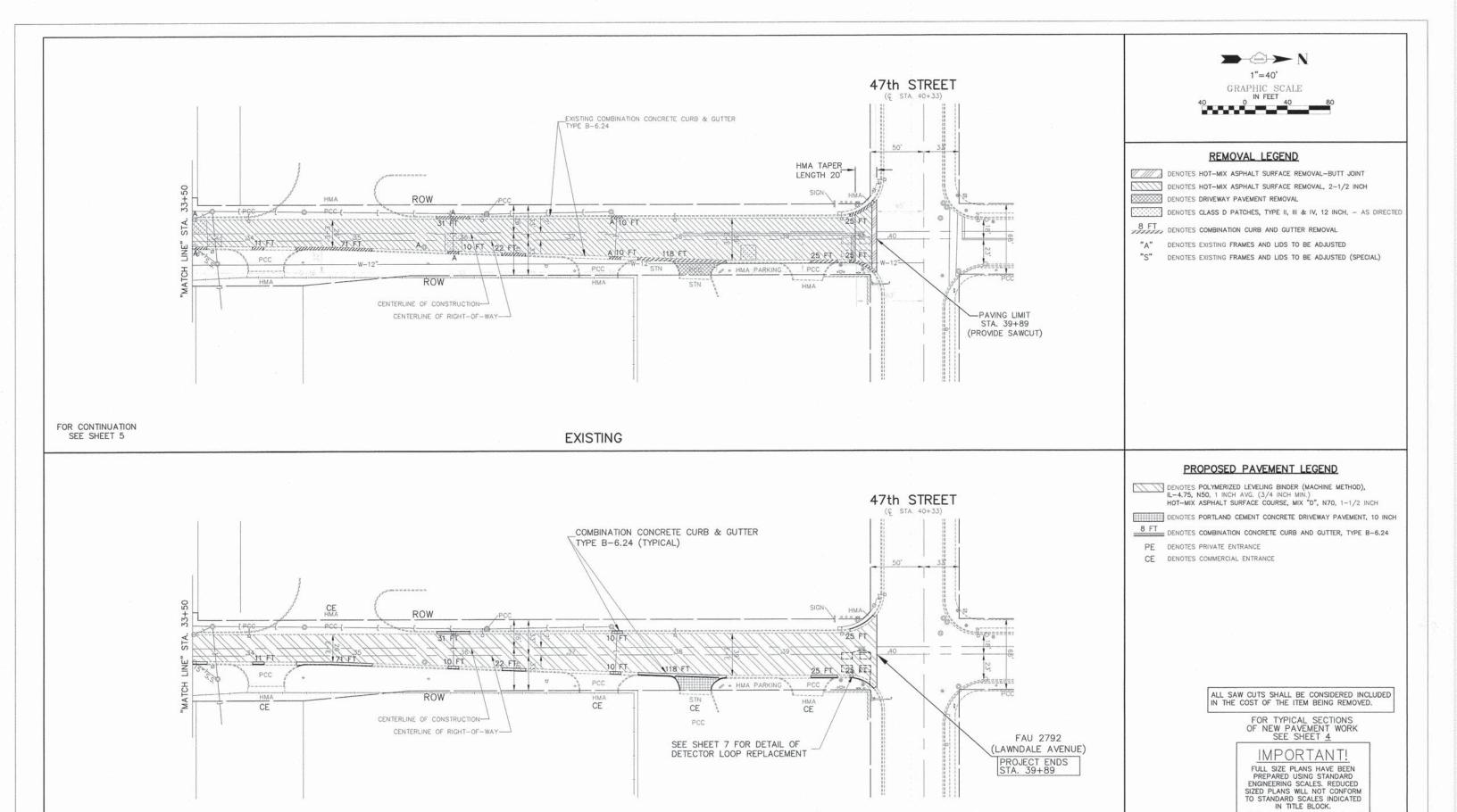
ROW

® 18" S.S.

36 FT

PLAN & PROFILE: FAU 2792 (LAWNDALE AVENUE) -FAU 3562 (JOLIET ROAD) TO FAU 1488 (47TH STREET) (RESURFACING) STA 27+50 TO STA 33+50

SECTION 12-00018-00-RS CONTRACT NO. 61B15



PROPOSED

LAWNDALE AVENUE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PLAN & PROFILE: FAU 2792 (LAWNDALE AVENUE) FAU 3562 (JOLIET ROAD) TO FAU 1488 (47TH STREET)
(RESURFACING)

SCALE: 1"=40' SHEET NO. OF SHEETS STA. 33+50 TO STA. 39+68

	11 12 12 12 12 12 12 12 12 12 12 12 12 1					
	F.A.U. RTE.	SE	CTION	COUNTY	TOTAL	SHEET NO.
	2792	12-000	18-00-RS	COOK	18	6
				CONTRA	CT NO. 6	1B15
9	FED. ROAL	D DIST, NO.	ILLINOIS FED.	AID PROJECT	M-4003(C	084)

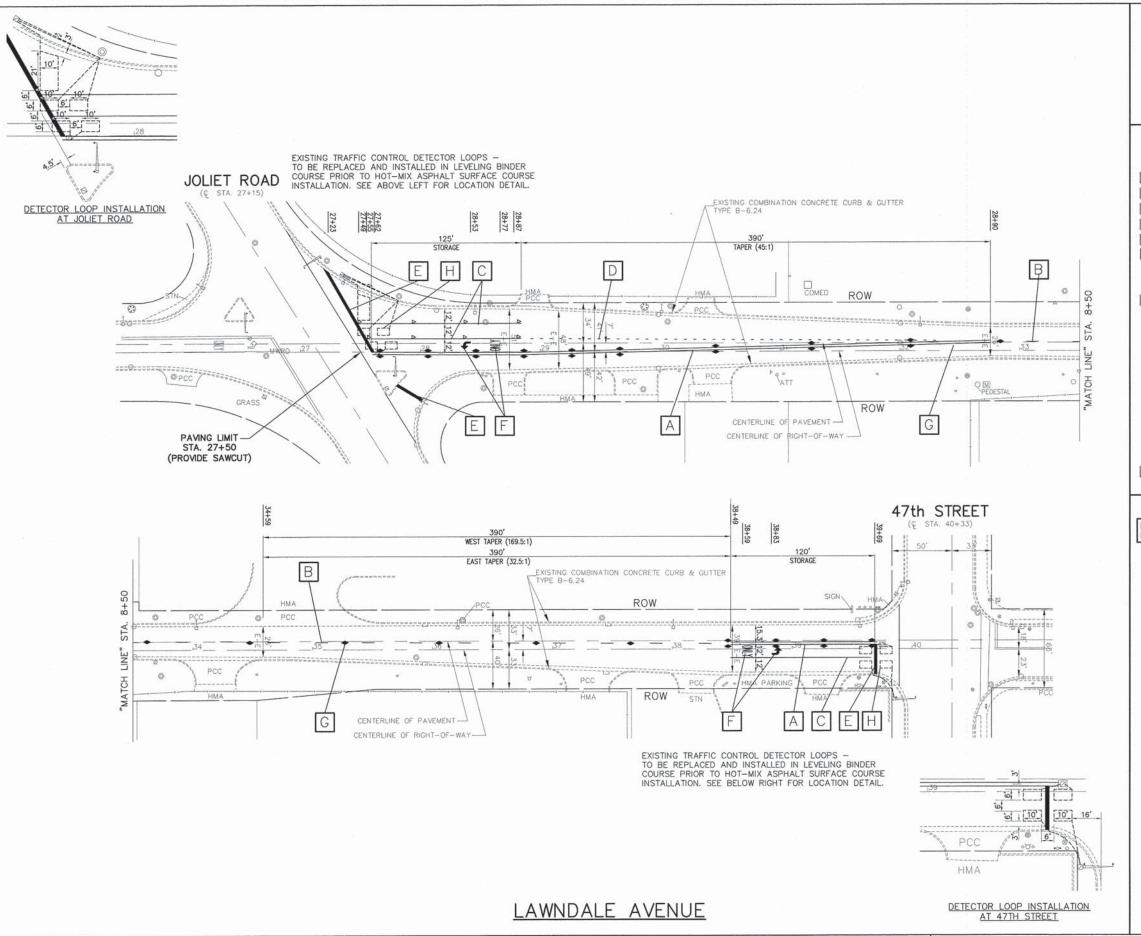
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ILLINOIS PROFESSIONAL DESIGN FIRM NO. 184-000928

FILE NAME VILLAGE OF McCOOK

LAWNDALE AVENUE
JOLIET ROAD TO 47TH STREET
RESURFACING

USER NAME =	DESIGNED - JLC	REVISED - JLC 1/2/15
	DRAWN - JEP-JFP	REVISED
PLOT SCALE =	CHECKED - JLC	REVISED -
PLOT DATE =	DATE - 10/28/14	REVISED -





#### THERMOPLASTIC PAVEMENT MARKING CODE

- A CENTERLINE SOLID DOUBLE YELLOW PREFORMED PLASTIC PAVEMENT MARKING LINE 4", 11"O/C
- B LANE LINE DASHED WHITE THERMOPLASTIC PAVEMENT MARKING LINE 4", 10' DASH, 30' SKIP
- C TURN AND LANE LINE SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE 6"
- D TURN LANE TAPER LINE DASHED WHITE THERMOPLASTIC PAVEMENT MARKING LINE 6", 2' DASH, 6' SKIP
- E STOP BAR SOLID WHITE THERMOPLASTIC PAVEMENT MARKING LINE 24"
- F LETTERS AND SYMBOLS SOLID WHITE THERMOPLASTIC PAVEMENT MARKING

#### REFLECTIVE PAVEMENT MARKERS

- G RECESSED REFLECTIVE PAVEMENT MARKERS 80' O/C OR AS SHOWN
  - ➤ ONE-WAY AMBER MARKER

  - ONE-WAY CRYSTAL MARKER
  - → TWO-WAY BLUE MARKER

NOTE: SHORT-TERM PAVEMENT MARKING IS PROPOSED ON THE MILLED PAVEMENT, NEW BINDER AND ON THE NEW SURFACE. SEE ARTICLE 703.04 OF THE LATEST EDITION OF THE "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION".

NOTE: ALL "ARROWS" AND "ONLYS" SHALL BE 8' IN HEIGHT.

NOTE: PROPOSED CENTERLINE — DOUBLE SOLID YELLOW THERMOPLASTIC PAVEMENT MARKING — 4", 11"O/C (NOTE:[A]) IS MEASURED PER LINE. TOTAL QUANTITY AND PAYMENT LENGTH IS FOR EACH LINEAR FOOT OF SINGLE 4" STRIPE INSTALLED.

#### DETECTOR LOOPS

H PROPOSED DETECTOR LOOP REPLACEMENT

NOTE:
PROPOSED PAVEMENT MARKING THAT IS BEING REPLACED IS IN THE SAME LOCATION.

#### DETECTOR LOOP SCHEDULE OF QUANTITIES

CODE QUANTITY 88600600 579

ITEM FOOT DETECTOR LOOP REPLACEMENT

> FOR PAVEMENT MARKING DETAILS SEE SHEET 14
> FOR DISTRICT DETAIL TC-13

#### IMPORTANT!

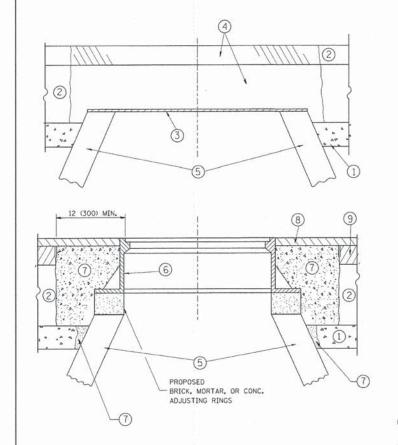
FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED TO STANDARD SCALES INDICATED IN TITLE BLOCK.

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VILLAGE OF McCOOK SER NAME . REVISED - JLC 1/2/15- JEP-JFP DRAWN REVISED EVISED CHECKED - JL( LOT SCALE = RESURFACING REVISED LOT DATE =

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**  PLAN & PROFILE: FAU 2792 (LAWNDALE AVENUE) -FAU 3562 (JOLIET ROAD) TO FAU 1488 (47TH STREET) (PAVEMENT MARKING)

SECTION CONTRACT NO. 61B15



#### NOTES:

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

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

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

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

WHEN STRUCTURES ARE TO BE ADJUSTED OR RECONSTRUCTED, THE LOWERING AND RAISING OF THE FRAMES AND LIDS WILL NOT BE PAID FOR SEPARATELY BUT WILL BE INCLUDED IN THE COST OF THE CORRESPONDING PAY 1TEM.

#### 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 11/2 (40)
- D) BACKFILL WITH CRUSHED STONE AND A MINIMUM 1/2 (40) THICK HMA SURFACE MIX APPROVED BY THE ENGINEER.

#### STAGE 2 (AFTER PAVEMENT MILLING)

- A) REMOVE THE HMA SURFACE MIX AND CRUSHED STONE.
- B) INSTALL THE FRAME AND LID; ADJUST THE FRAME TO ITS FINAL SURFACE ELEVATION.
- C) THE SURROUNDING SPACE SHALL BE FILLED WITH CLASS PP-1\* CONCRETE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.
- \* UNLESS OTHERWISE SPECIFIED IN THE PLANS.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS EXCEPT THAT "THE CONTRACTOR SHALL ADJUST THE STRUCTURES TO THE FINISHED PAVEMENT ELEVATION NO MORE THAN 5 CALENDAR DAYS PRIOR TO PLACEMENT OF THE FINAL LIFT OF SURFACE UNLESS APPROVED BY THE FIGNINER."

#### LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- (2) EXISTING PAVEMENT
- 7 CLASS PP-1\* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- (8) PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- 8 PROPOSED HMA SURFACE COUP
- (5) EXISTING STRUCTURE

#### PROPOSED HMA BINDER COURSE

#### LOCATION OF STRUCTURES:

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

#### BASIS OF PAYMENT:

REMOVING FRAMES AND LIDS ON DRAINAGE AND UTILITY STRUCTURES IN THE PAVEMENT PRIOR TO MILLING, AND ADJUSTING TO FINAL GRADE PRIOR TO PLACING THE SURFACE COURSE, WILL BE PAID FOR AT THE CONTRACT UNIT PRICE EACH FOR "FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)."

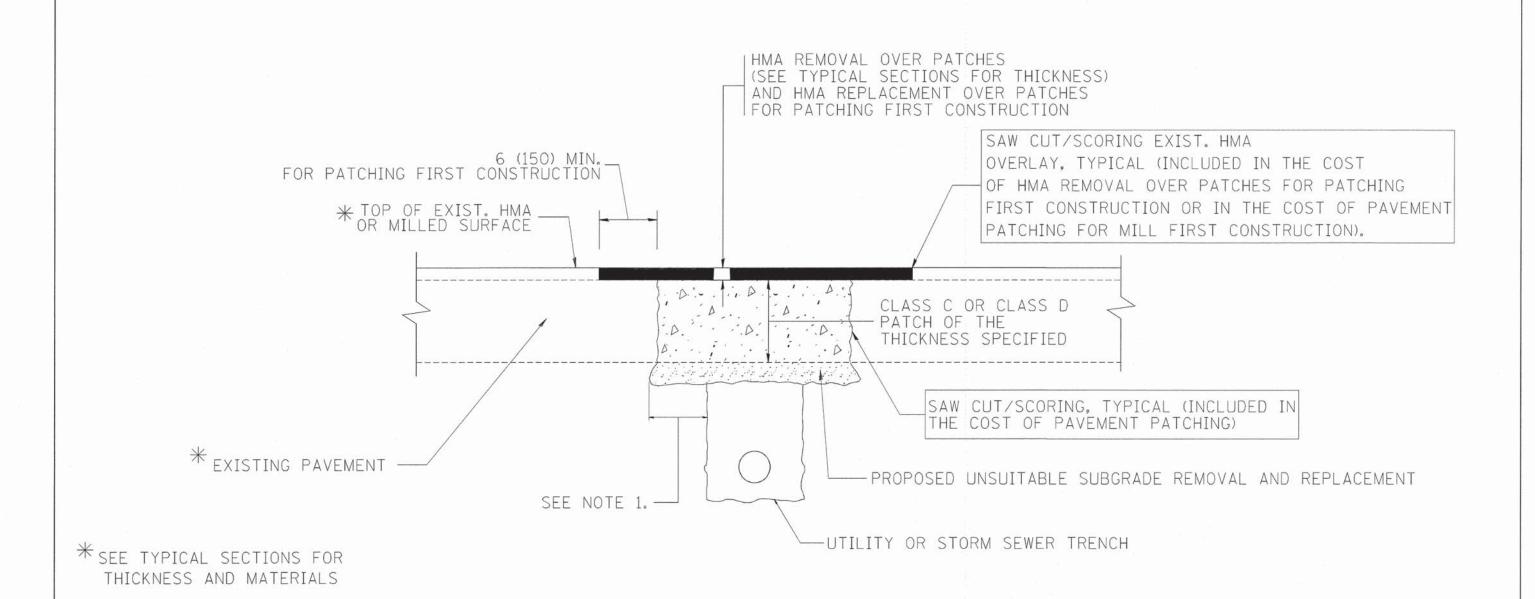
THIS WORK WILL NOT BE PAID FOR WHEN DRAINAGE AND UTILITY STRUCTURES ARE SPECIFIED FOR PAYMENT AS STRUCTURE RECONSTRUCTION.

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

# DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

FILE NAME =	USER NAME = bauerdl	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04			DETAILS FOR	RTE.	SECTION	COUNTY	SHEETS NO.
c:\pw_work\pwidot\bouard1\d0108315\bd08.	dgn	DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS			2792 12	2-00018-00-RS	COOK	18 8
S-20 No.	PLOT SCALE = 1968.5000 '/ m	CHECKED -	REVISED - R. BORO 03-09-11	DEPARTMENT OF TRANSPORTATION		FRAMES AND LIDS ADJUSTMENT WITH MILLING	BD60	00-03 (BD-8)	CONTRACT	NO. 61B15
	PLOT DATE = 12/6/2011	DATE - 10-25-94	REVISED - R. BORO 12-06-11		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIS	T. NO. 1 ILLINOIS FED. A	AID PROJECT M-	-4003(084)



#### 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)

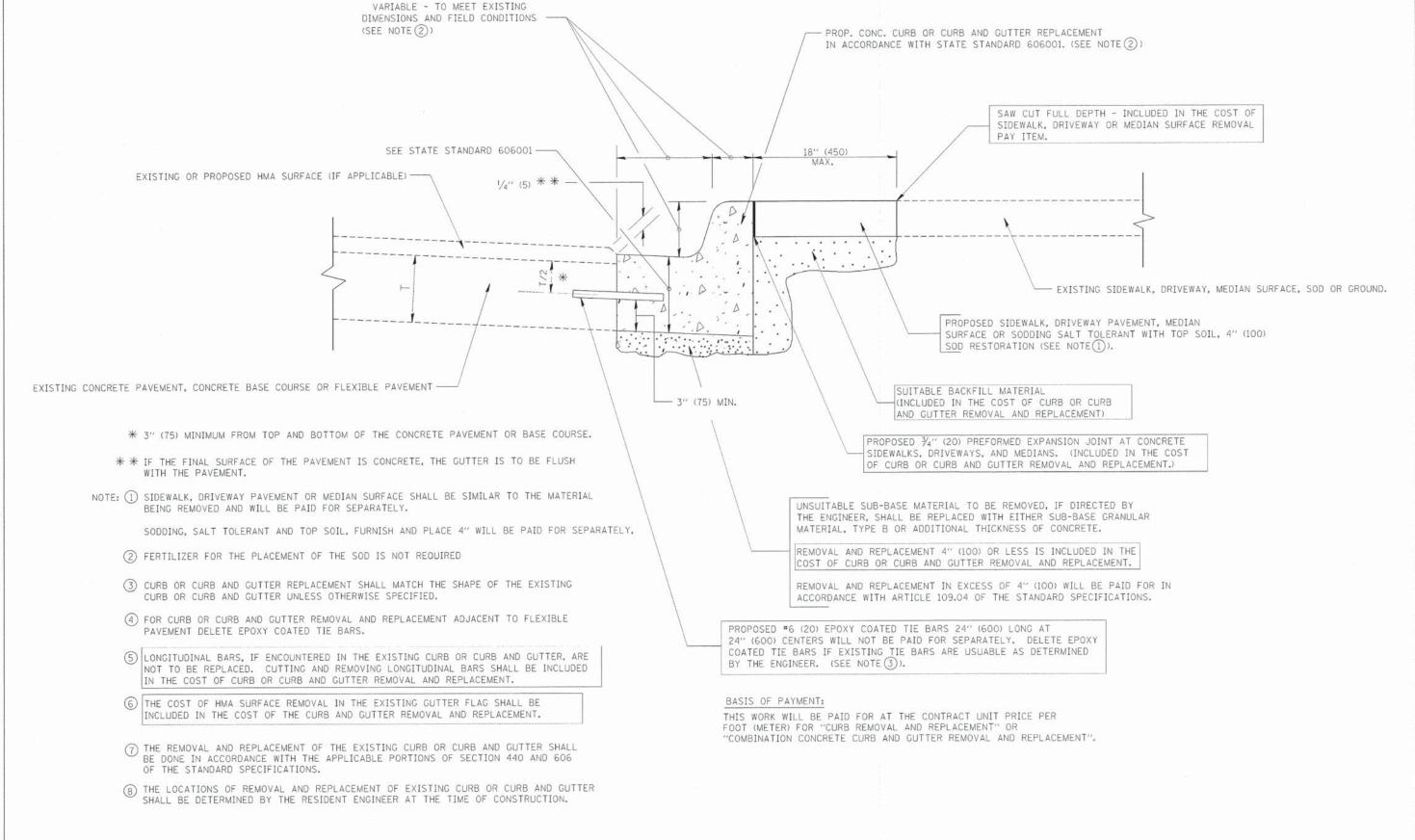
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

#### 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 (MILLIMETERS) UNLESS OTHERWISE SHOWN.

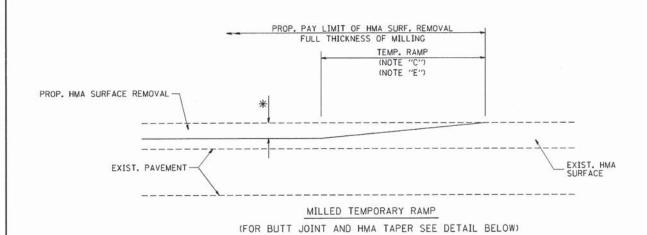
FILE NAME =	USER NAME = bouerdl	DESIGNED - R. SHAH	REVISED - A. ABBAS 04-27-98		PAVEMENT PATCHING FOR	F.A.U. SECTION	COUNTY TOTAL SHEET
c:\projects\diststd22x34\bd22.dgn		DRAWN -	REVISED - R. BORO 01-01-07	STATE OF ILLINOIS		2792 12-00018-00-RS	COOK 18 9
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION	HMA SURFACED PAVEMENT	BD400-04 (BD-22)	CONTRACT NO. 61B15
	PLOT DATE = 10/27/2008	DATE - 10-25-94	REVISED - K. ENG 10-27-08		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO. 1 ILLINOIS FED.	AID PROJECT M-4003(084)



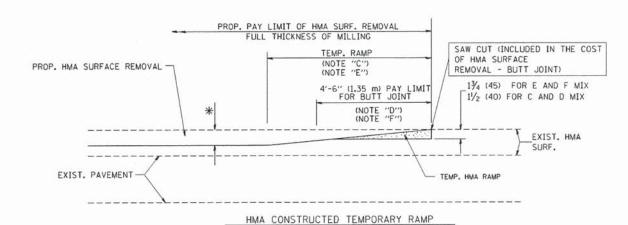
### CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME =	USER NAME = drivokosgn	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96		CURB OR CURB AND GUTTER	F.A.U. RTE. SECTION	COUNTY TOTAL SHEET NO.
c:\pw_work\pwidot\drivekosgn\d0108315\bd	24.dgn	DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS	REMOVAL AND REPLACEMENT	2792 12-00018-00-RS	COOK 18 10
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION	REWOVAL AND REPLACEMENT	BD600-06 (BD-24)	CONTRACT NO. 61B15
	PLOT DATE = 12/15/2009	DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FEO. ROAD DIST. NO. 1 ILLINOIS FED. A	AID PROJECT M-4003(084)



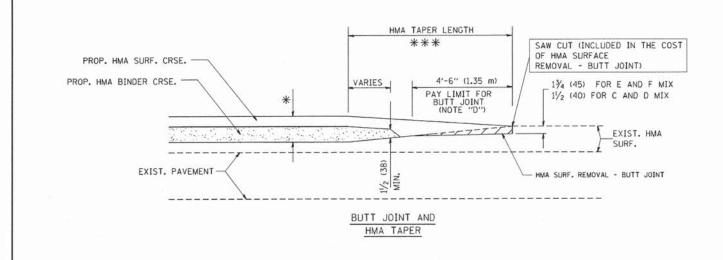
#### OPTION 1



#### OPTION 2

#### TYPICAL TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)



## TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

PROP. HMA OR PCC

SURFACE PROP. HMA OR PCC

SURFACE NOTE "A")

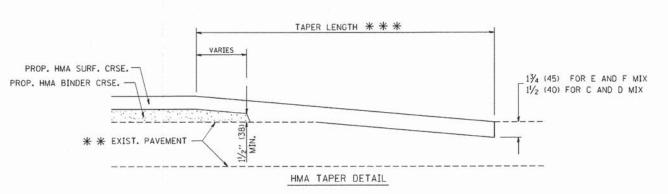
15'-0" (4.5 m) (NOTE "B")

(NOTE "D")

SAW CUT (INCLUDED IN THE COST OF HMA OR P.C.C. SURFACE REMOVAL - BUTT JOINT)

1\frac{1}{2}\text{4} (45) FOR E AND F MIX

1\frac{1}{2}\text{4} (40) FOR C AND D MIX



# TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

\* \* PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

#### NOTES

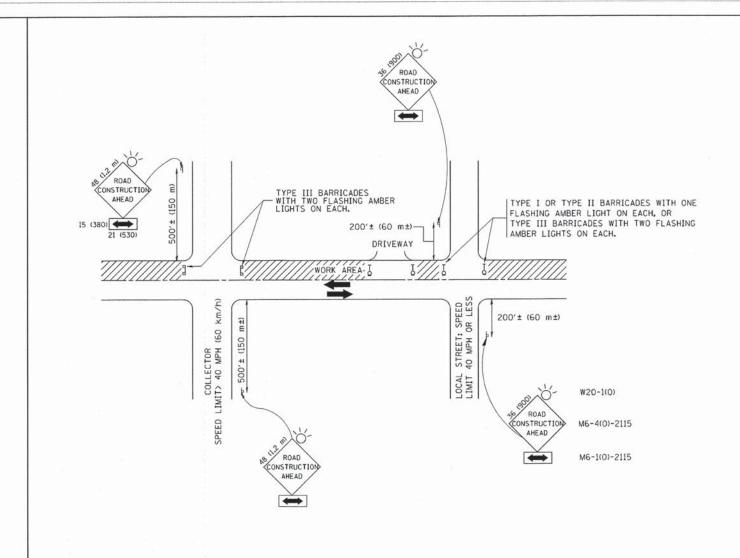
- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
- B: MINOR SIDE ROADS.
- C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
- D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
- E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0"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

#### 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".

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

FILE NAME =	USER NAME = gaglianobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94		BUTT JOINT AND HMA TAPER DETAILS		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEET SHEETS NO.	
W:\diststd\22x34\bd32.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS			2792	12-00018-00-RS	COOK	18 11	
	PLOT SCALE = 50.0000 ' / IN.	CHECKED -	REVISED - M. GOMEZ 04-06-01	DEPARTMENT OF TRANSPORTATION				BD400-05 BD32		T NO. 61B15	
	PLOT DATE = 1/4/2008	DATE - 06-13-90	REVISED - R. BORO 01-01-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. RO	O DIST. NO. 1 ILLINOIS FED.	AID PROJECT	M-4003(084)



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

#### NOTES:

- A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- 0) ONE ROAD CONSTRUCTION AHEAD SIGN 36  $\times$  36 (900×900) 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 GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- O) 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.
- 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).

- B. FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY:
- USE APPLICABLE PORTIONS OF THE TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES (STD. 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 = gaglianobt DESIGNED - LHA REVISED - J, OBERLE 10-18-95

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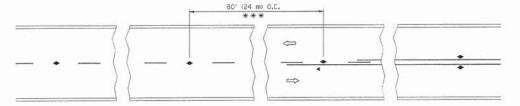
DRAWN - REVISED - A, HOUSEH 03-06-96

PLOT SCALE = 50.000 '/ IN. CHECKED - REVISED - A, HOUSEH 10-15-96

PLOT DATE = 1/4/2008 DATE - 06-89 REVISED -T, RAMMACHER 01-06-00

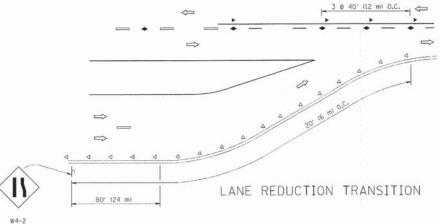
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

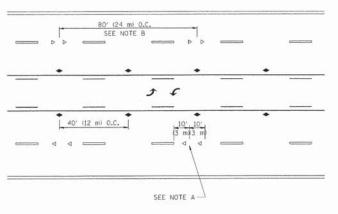
	TR	AFFI	0	CON	TRO	L AND	PRO	OTEC	TION FOR		
	SIDE	ROA	DS	, IN	TERS	SECTIO	NS, A	AND	DRIVEWAYS		
E	SHEET	NO.	1	OF	1	SHEETS	T	STA.		TO	STA.



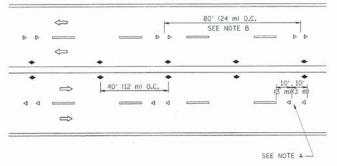
\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

#### TWO-LANE/TWO-WAY

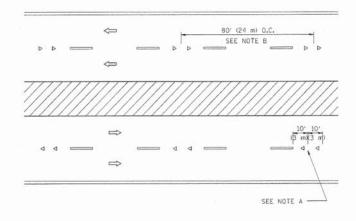




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

#### GENERAL NOTES

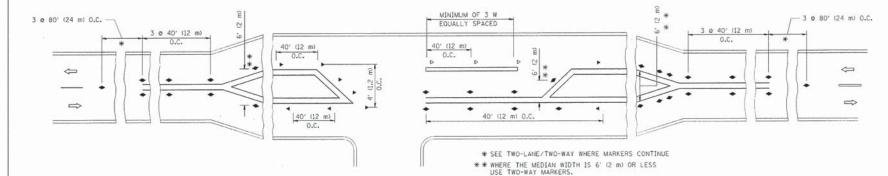
- MARKERS USED WITH DASHED LINES SHALL BE CENTERED IN THE GAP BETWEEN SEGMENTS.
- 2. MARKERS USED ADJACENT TO SOLID LINES SHALL BE OFFSET 2 TO 3 (50 TO 75) TOWARD TRAFFIC AS SHOWN.
- 3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

#### LANE MARKER NOTES

- A. USE DOUBLE LANE LINE MARKERS SPACED AS SHOWN.
- 8. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

#### SYMBOLS

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



LEFT TURN

#### DESIGN NOTES

- 1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
- EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY
  EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE
  LINES.
- 3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
- MARKERS SHOULD NOT BE USED ALONGSIDE CURBS EXCEPT FOR EXTREMELY SHORT SECTIONS OF CURBS WHERE NOT MORE THAN TWO MARKERS WOULD BE INVOLVED.

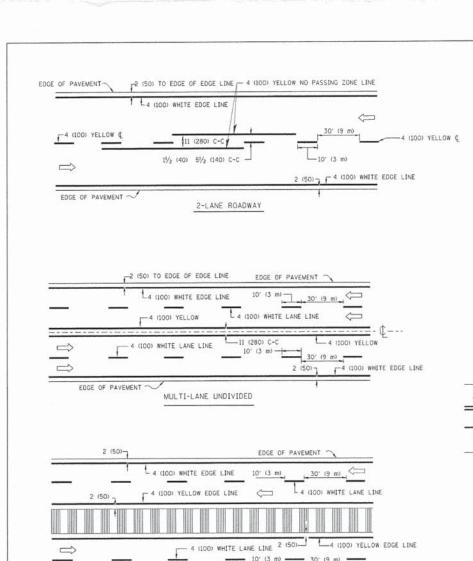
All dimensions are in inches (millimeters) unless otherwise shown,

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

TYPICAL APPLICATIONS

RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)

E: NONE | SHEET NO. 1 OF 1 SHEETS | STA. TO STA.



NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING

MULTI-LANE DIVIDED WITH MOUNTABLE MEDIAN

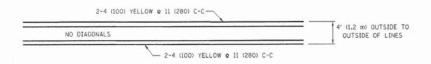
 $\Rightarrow$ 

EDGE OF PAVEMENT

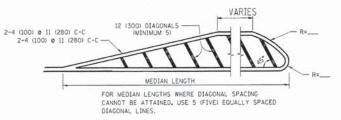
# BICYCLE & EQUESTRIAN SCHOOL PEDESTRIAN SCHOOL PEDESTRIAN SCHOOL PEDESTRIAN SCHOOL PEDESTRIAN DETAIL "A" DETAIL "A" DETAIL "B" DETAIL "B"

4 (100) WHITE EDGE LINE

TYPICAL CROSSWALK MARKING

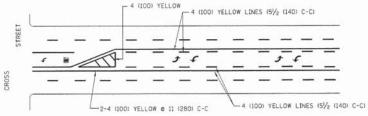


#### 4' (1.2 m) WIDE MEDIANS ONLY



DIAGONAL LINE SPACING: 50' (15 m) C-C (LESS THAN 30MPH (50 km/h))
75' (25 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h))
150' (45 m) C-C (MORE THAN 45MPH (70 km/h))

#### MEDIANS OVER 4' (1.2 m) WIDE

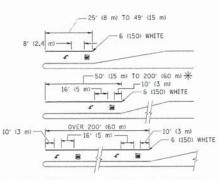


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

#### TYPICAL PAINTED MEDIAN MARKING

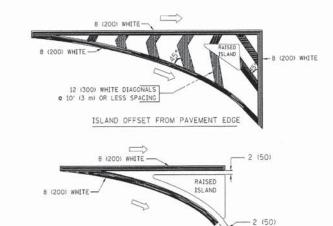


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED.  $\P$  AREA = 15.6 SO. FT. (1.5 m²) ) WLY AREA = 20.8 SO. FT. (1.9 m²)

\*\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

#### TYPICAL TURN LANE MARKING



#### TYPICAL ISLAND MARKING

ISLAND AT PAVEMENT EDGE

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 p 4 (100)	SOLID SOLID	YELLOW	5½ (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLIO	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW: EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE: FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5½ (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE
	8' (2.4m) LEFT ARROW	IN PAIRS	WHITE	SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 © 6 (150) 12 (300) © 45° 12 (300) © 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT. OTHERWISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	II (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 ml LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SO. FT. (0.33 m²) EACH "X"=54.0 SO. FT. (5.0 m²)
SHOULDER DIAGONALS	12 (300) <b>e</b> 45°	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 (OVER 45MPH (70 km/h))

FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

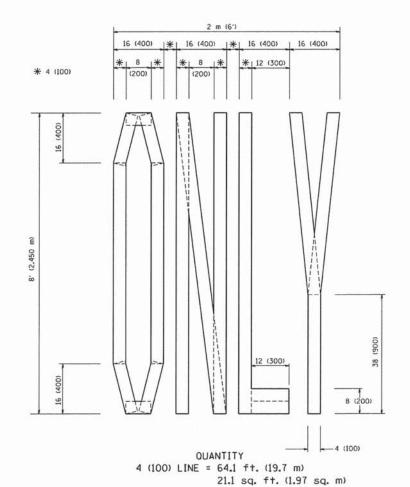
	LARGE SIZE SQ FT (SQ M)	SMALL SIZE SQ FT (SQ M)
THROUGH ARROW	11.5 (1.07)	6.5 (0.60)
LEFT OF RIGHT ARROW	15.6 (1.47)	6.5 (0.60)
COMBINATION LEFT (RIGHT) AND THROUGH ARROW	26.0 (2.42)	14.7 (1.37)
RAILROAD "R" 1.8m (6ft.)	3.6 (0.33)	-
RAILROAD "X" 6.1m (20ft.)	54.0 (5.02)	-
HANDICAPPED SYMBOL	6.0 (0.56)	-

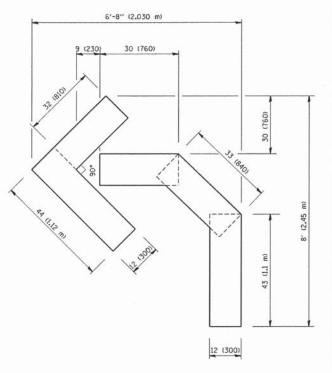
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = drivekosgn	DESIGNED - EVERS	REVISED -T. RAMMACHER 10-27-9
c:\pw_work\pwidot\drivokosgn\d0108315\tc3	l-dgn	DRAWN -	REVISED -C. JUCIUS 09-09-0
	PLOT SCALE = 50.000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

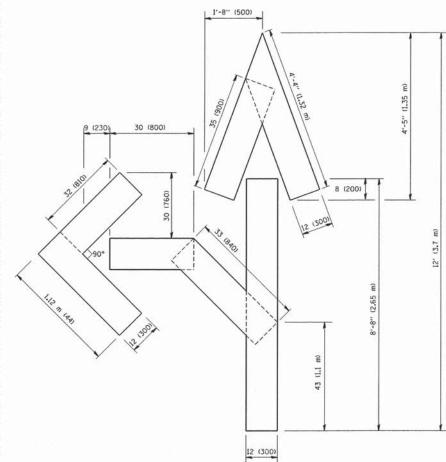
STATE OF ILLINOIS								
DEPARTMENT	0F	TRANSPORTATION						

		D	ISTRICT OF	NE		F.A.U. RTE.	SECTION	COUNTY	TOTAL	SHEET NO.	
	TOTAL					2792	12-00018-00-RS	COOK	18	14	
TYPICAL PAVEMENT MARKINGS						TC-13 CON			TRACT NO. 61B		
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. RDAG	DIST. NO. 1 ILLINOIS FED.	AID PROJECT N	1-4003(	084)	





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)

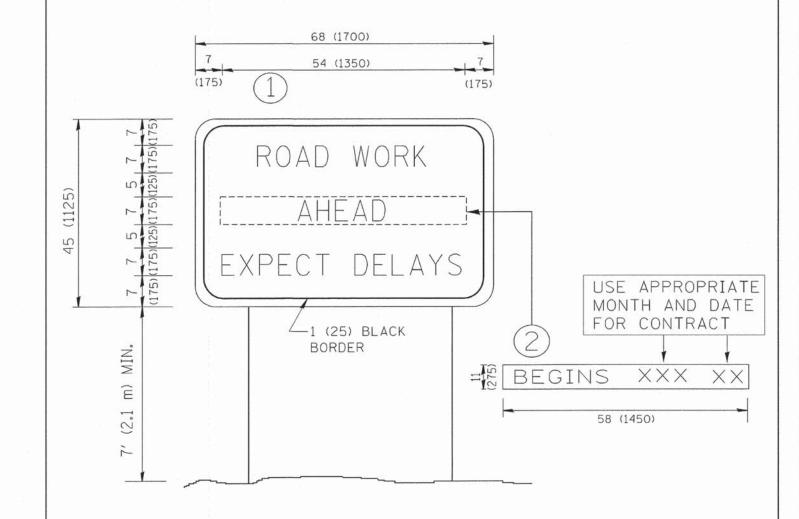
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME = USER NAME = geglienobt DESIGNED - REVISED -T. RAMMACHER 06-05-96
Widdistatd\22x34\tcl6.dgn

DRAWN - REVISED -T. RAMMACHER 11-04-97
PLOT SCALE = 58.8888 '/ In. CHECKED - REVISED -T. RAMMACHER 03-02-98
PLOT DATE = 1/4/2888 DATE - 09-18-94 REVISED -E. GOMEZ 08-28-00

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

	PAVEMENT	MARKI	NG LETTE	RS AND SYI	MBOLS	F.A.U. RTE.	RTE. SECTION		TOTAL	SHEET NO.
					2792	12-00018-00-RS	COOK	18	15	
FOR TRAFFIC STAGING							TC-16	CONTRACT	NO. 6	1B15
SCALE: NONE	SHEET NO. 1	OF 1	SHEETS	STA.	TO STA.	FED. ROAL	D DIST. NO. 1 ILLINOIS FED. A		1-4003(	



#### NOTES:

- 1. USE BLACK LETTERING ON ORANGE BACKGROUND.
- 2. ERECT SIGNS IN ADVANCE OF THE LOCATION FOR THE "ROAD CONSTRUCTION AHEAD" SIGN AT LOCATIONS AS DIRECTED BY THE ENGINEER.
- 3. ERECT SIGN (1) WITH INSTALLED PANEL (2) ONE WEEK PRIOR TO THE START OF CONSTRUCTION.
- 4. REMOVE PANEL (2) SOON AFTER THE START OF CONSTRUCTION.
- 5. SEE SPECIAL PROVISION FOR "TEMPORARY INFORMATION SIGNING" FOR ADDITIONAL INFORMATION.
- 6. ONE SIGN ASSEMBLY EQUALS 25.70 SQ. FT. (2.3 SQ. M.)
- 7. SHALL BE PAID FOR AS TEMPORARY INFORMATION SIGNING.

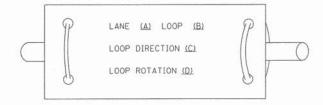
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS)
UNLESS OTHERWISE SHOWN.

FILE NAME =	USER NAME = gaglianobt	DESIGNED -	REVISED - R. MIRS 09-15-97	Control (Control (Con		ARTERIAL ROAD		F.A.U. RTE.	SECTION	COUNTY	TOTAL SHI SHEETS N
Wi\diststd\22x34\tc22.dgn		DRAWN -	REVISED - R. MIRS 12-11-97	STATE OF ILLINOIS		INFORMATION SIGN		2792	12-00018-00-RS	соок	18
	PLOT SCALE = 50.000 '/ IN.	CHECKED -	REVISED -T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION		INFURMATION SIGN		TC-22	CONTRAC	CT NO. 61B	
	PLOT DATE = 1/4/2008	DATE -	REVISED - C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA.	TO STA.	FED. ROA	D DIST. NO. 1   ILLINOIS FED. A	AID PROJECT	M-4003(084

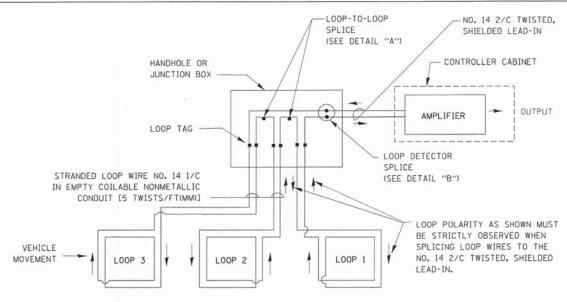
#### LOOP DETECTOR NOTES

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

#### LOOP LEAD-IN CABLE TAG

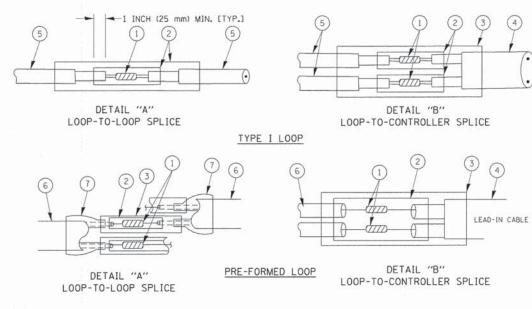


- A. LANE 1 IS THE LANE CLOSEST TO THE CENTERLINE OF THE ROADWAY
- B. LOOP #1 IS THE LOOP IN THE LANE CLOSEST TO THE INTERSECTION.
- C. LABEL LOOP CABLE "IN" OR LOOP CABLE "OUT".
- D. LABEL LOOP CABLE CLOCKWISE OR LOOP CABLE COUNTERCLOCKWISE.



#### DETECTOR LOOP WIRING SCHEMATIC

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



#### LOOP DETECTOR SPLICE

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

FILE NAME :	USER NAME # kanthaphixaybo	DESIGNED - DAD	REVISED -	
c:\pw_work\PWIDOT\KANTHAPHIXAYBC\dØII	d01126 4\traffic_legend_v7.dgn	DRAWN - BCK	REVISED -	
	PLOT SCALE = 20.0000 1/ IN.	CHECKED - DAD	REVISED -	
	PLOT DATE = 10/6/2009	DATE - 10/28/09	REVISED -	

STATI	E OF	ILLINOIS
DEPARTMENT	OF	TRANSPORTATION

DISTRICT ONE								
STAND	)ARD				DETAILS	2		
CALE:	SHI	EET NO. 1 OF 6 S	HEETS ST	Α.	TO STA.	F		

F.A.U. RTE. SECTION					COUNTY		TOTAL	SHEET NO.
2792	12-00018-00-RS			T	COOK		18	17
					CONTRA	СТ	NO. 6	1B15
FED. ROAD	DIST. NO.	ILLINOIS	FED.	AID	PROJECT	М	-4003(	084)

# PROVIDE A PAVEMENT REPLACEMENT NOTE WHICH SHOULD EQUAL 3' (900 mm) X WIDTH OF PAVED SHOULDER. PAVED OR NON-PAVED SHOULDER \* = (600 mm) \* \* UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS

BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS.

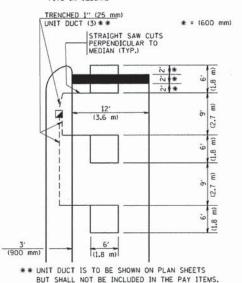
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# LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

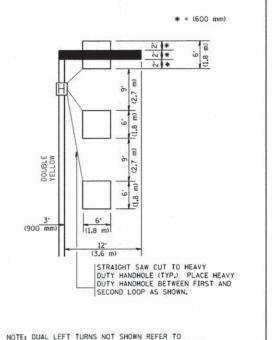
HANDHOLE LOCATION MAY VARY DEPENDING ON GEOMETRICS AND DESIGN OF TRAFFIC SIGNALS, HEAVY-DUTY HANDHOLES TO BE USED WHEN THE MEDIAN IS MOUNTABLE, REFER TO STANDARD BIAGOI TO ENSURE THAT HANDHOLE FITS IN MEDIAN,



VOLUME DENSITY ("FAR OUT" DETECTION)

ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

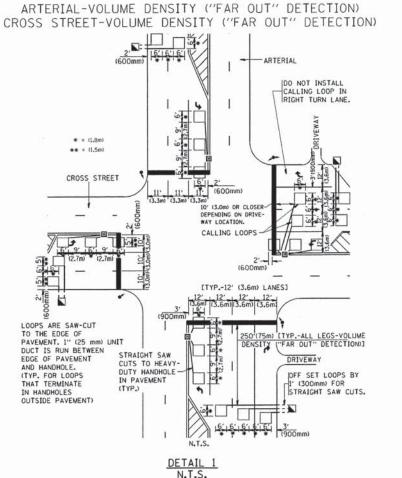


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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

ARTERIAL-VOLUME DENSITY ("FAR OUT" DETECTION)

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



OFFSET LOOPS BY-1' (300mm) FOR STRAIGHT SAW CUTS ARTERIA THIS DIMENSION MAY BE ADJUSTED FOR DRIVEWAY OR OTHER OBSTRUCTIONS. WHEN ADJUSTMENT IS REQUIRED, DETECTORS WILL NORMALLY BE MOVED CLOSE TO THE INTERSECTION. \* = (1.8m) UNIT DUCT -CROSS STREET 13'(900mm (3.3m) 6 4 6: 9 6 -10'(3.0m) PREFERRED 6, 9, 6, 9, 6, 15'(4.5m) MAXIMUM + - THESE DIMENSIONS WILL BE VARIABLE [6' (1.8m) MINIMUM. 25' (7.6 m) MAXIMUM △ - THESE DIMENSIONS SHALL BE 5' (1.5m) FOR -IF "FAR OUT" LOOPS 10' (3.0m) LANE WIDTHS ARE LOCATED IN TAPER OF A RIGHT TURN LANE, DIMENSION THIS LOOP TO COVER TAPER AREA. DO NOT COVER THE LEFT TURN DETAIL 2 LANE OR LEFT TURN LANE TAPER. N.T.S.

#### 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, MORE THAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP BAR (i.e. 1-1/2, 1-3/4, 2).
- \* WHEN SYSTEM LOOPS ARE REQUIRED ON AN APPROACH OF AN INTERSECTION, THE LOOPS USED FOR VOLUME DENSITY AND INTERSECTION TIMING SHALL ALSO BE USED AS SYSTEM DETECTORS. EACH ONE OF THESE TYPE OF LOOPS REQUIRES A SEPARATE TWO CONDUCTOR NO. 14 TWISTED SHIELDED CABLE AND A SEPARATE INDUCTIVE LOOP DETECTOR WHEN NEW CONTROLLERS ARE UTILIZED. THE DESIGNER SHALL LABEL THESE TYPES OF LOOPS AS "INTERSECTION AND SAMPLING (SYSTEM) DETECTORS" ON THE SIGNAL LAYOUT, THE INTERCONNECT PLAN AND THE SYSTEM CABLE PLAN, WHEN AN EXISTING CONTROLLER IS UTILIZED FOR THIS TYPE OF DETECTION, THE PAY ITEM "INDUCTIVE LOOP DETECTOR WITH SYSTEM OUTPUT" SHOULD BE USED.

#### PLACEMENT OF DETECTORS

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

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

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

#### NOTE:

ALL DETAILS AND NOTES SHOWN ARE FROM THE I.D.O.T. DISTRICT 1
TRAFFIC SIGNAL DESIGN GUIDELINES DATED JANUARY 1995

THIS DRAWING HAS BEEN PREPARED TO ASSIST THE RESIDENT ENGINEER FOR ALL ROADWAY RESURFACING OR S.M.A.R.T. PROJECTS WHERE THE DIMENSIONS ARE NOT SHOWN ON THE PLANS AND THE FINAL LOCATIONS FOR CROSSWALKS OR STOP BARS ARE NOT DETERMINED.

USER NAME = gaglianobt	DESIGNED -	REVISED -	
	DRAWN -	REVISED -	
PLOT SCALE = 50.0000 ' / IN.	CHECKED - R.K.F.	REVISED -	
DI OT DATE - 1/4/2000	DATE	DEVISED -	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT 1 - DETECTOR LOOP INSTALLATION
DETAILS FOR ROADWAY RESURFACING

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