06-16-2017 LETTING ITEM 010

# STATE OF ILLINOIS

#### **DEPARTMENT OF TRANSPORTATION**

**PROPOSED** 

#### D-91-387-16

SECTION

2016-02885

COOK RS COOK 19 1 HILINOIS CONTRACT NO. 62C80

LOCATION OF SECTION INDICATED THUS: -

STATE OF ILLINOIS

DIRECTOR OF PROGRAM DEVELOPMENT

DEPARTMENT OF TRANSPORTATION

FOR INDEX OF SHEETS, SEE SHEET NO. 2

HIGHWAY PLANS

**BLUE ISLAND** 

F.A.U. ROUTE 3589: WIRETON RD 127TH ST TO VERMONT ST. **SECTION: 2016-028RS** 

**RESURFACING** 

COOK COUNTY
PROJECT STP-3589(001)

C-91-387-16

TRAFFIC DATA

WIRETON RD 2014 ADT = 7.850POSTED SPEED LIMIT = 40 MPH

PROJECT IS LOCATED IN THE CITY OF

**PROJECT BEGINS** STA. 10 + 45.8FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES, IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED. J.U.L.I.E.

JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION 1-800-892-0123

CONTRACT NO. 62C80

PROJECT ENGINEER ISSAM RAYYAN (847) 705-4178 PROJECT MANAGER ALAIN MIDY (847) 221-3056

ST. 99TH 103RD 50 WESTERN LONGWOOD FMESS LONGWOOD PROJECT ENDS 115TH ST. STA. 51 + 41ALSIF SA 131ST 50

**WORTH TOWNSHIP** 

GROSS & NET LENGTH = 4,095.2 FT. = 0.775 MILE

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

**R13E** 

OR 811

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#### INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1.	TITLE SHEET
2.	INDEX OF SHEETS, STATE STANDARDS, AND GENERAL NOTES
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5.	TYPICAL SECTIONS
6-7,	ROADWAY & PAVEMENT MARKING PLANS
8-9.	DETECTOR LOOP REPLACEMENT PLANS
10.	DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING (80-8)
11.	PAVEMENT PATCHING FOR HOT-MIX ASPHALT SURFACED PAVEMENT (BD-22)
12.	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT (BD-24)
13.	TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC-10)
14.	TYPICAL APPLICATIONS RAISED REFLECTIVE PAVEMENT MARKERS (SNOW PLOW RESISTANT) (TC-II)
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<b>‡7.</b>	SHORT TERM PAVEMENT MARKING LETTERS AND SYMBOLS (TC-16)
18.	ARTERIAL ROAD INFORMATION SIGNING (TC-22)
19.	DISTRICT ONE - DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACING (TS-07)

#### STATE STANDARDS

STANDARD NO	DESCRIPTION
442201-03	CLASS C AND D PATCHES
606001-06	CONCRETE CURB TYPE B AND COMBINATION CONCRETE CURB AND GUTTER
701011-04	OFF-ROAD MOVING OPERATIONS, 2L. 2W, DAY ONLY
701301-04	LANE CLOSURE, 2L. 2W. SHORT TIME OPERATIONS
701311-03	LANE CLOSURE, ZL. ZW. MOVING OPERATIONS-DAY ONLY
701336-06	LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS $\geq$ 45 MPH
701501-06	URBAN LANE CLOSURE, 2L. 2W. UNDIVIDED
701901-06	TRAFFIC CONTROL DEVICES

#### **GENERAL NOTES:**

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

THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH UTILITY COMPANIES AND THE CITY OF BLUE ISLAND.

THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR 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 AND PAID FOR IN KIND.

WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC THE MAXIMUM GRADE DIFFERENTIAL BETWEEN PASSES OF THE MILLING MACHINE SHALL NOT EXCEED 11/2 INCHES (40MM) WHERE THE SPEED LIMIT IS 40 MPH (80KM/H) OR LESS AND 1 INCH (25 MM) WHERE THE SPEED LIMIT IS GREATER THAN 40 MPH (80 KM/H), WITH WRITTEN APPROVAL FROM THE ENGINEER, A MAXIMUM GRADE DIFFERENTIAL OF 3 INCHES (75 MM) MAY BE ALLOWED IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 1:3 (Y:H) OR A NOTCHED LONGITUDINAL WEDGE IS USED.

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

THE RESIDENT ENGINEER SHALL CONTACT PATRICE HARRIS, AREA TRAFFIC FIELD ENGINEER AT PATRICE.HARRIS@ILLINOIS.GOV OR AT 708-597-9800 A MINIMUM OF TWO (2) WEEKS PRIOR TO THE PLACEMENT OF PERMANENT PAVEMENT MARKINGS.

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

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

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

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

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

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)" SHOWN IN THE PLANS.

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.

THESE PLANS HAVE BEEN PREPARED FROM NOTES RECEIVED FROM THE BUREAU OF CONSTRUCTION.

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 OTHERWISE SPECIFIED.

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

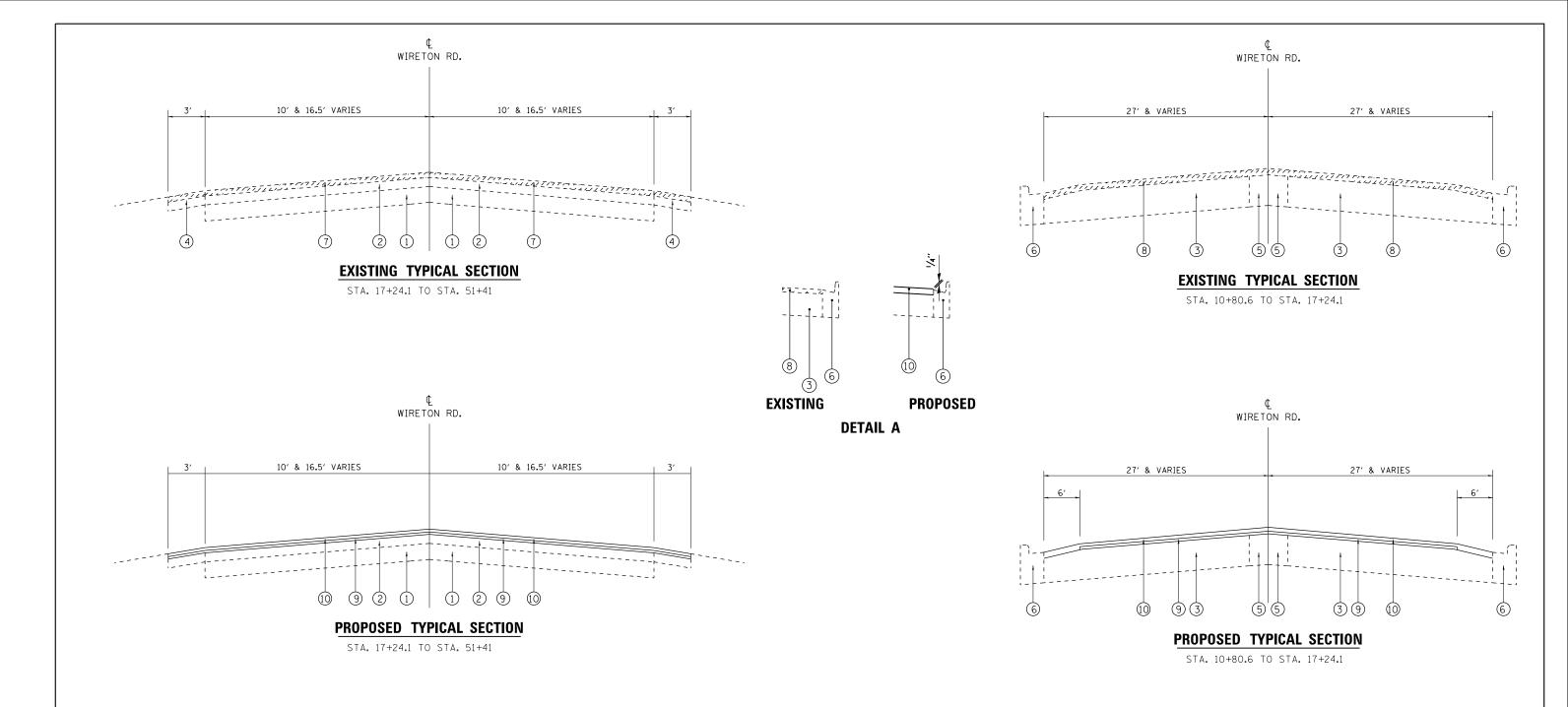
PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES.

1	FILE NAME :	USER NAME = pyrzonowskieb	DESIGNED -	REVISED -			INDEX	OF SHEET	S STATE ST	TANDARDS	F.A.U.	SECTION	COUNTY	TOTAL	MEET
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URBAN URBAN CONSTRUCTION TYPE CODE 0005 CONSTRUCTION TYPE CODE 0005 SUMMARY OF QUANTITIES SUMMARY OF QUANTITIES 80/20 80/20 (FEDISTIATE) TOTAL TOTAL (FED STATE) CODE NO CODE NO ITEM UN1T QUANTITIES ITEM UNIT QUANTITIES " 0005 0005 TRAFFIC BARRIER TERMINAL, TYPE 1 21101615 TOPSOIL FURNISH AND PLACE. 4" SO YD 12 12 X 63100167 EACH 3 3 (SPECIAL) TANGENT 25200110 SODDING, SALT TOLERANT SO YD 12 12 63200310 GUARDRAIL REMOVAL FOOT 213 213 40600290 BITUMINOUS MATERIALS (TACK COAT) POUND 9478 9478 67000400 ENGINEER'S FIELD OFFICE, TYPE A CAL MO 6 MIXTURE FOR CRACKS, JOINTS, AND 40600400 TON 22 22 67100100 MOBILIZATION LSUM 1 FLANGEWAYS POLYMERIZED LEVELING BINDER (MACHINE TRAFFIC CONTROL AND PROTECTION, STANDARD 40600827 TON 433 433 70100600 L SUM METHOD), IL-4,75, N50 701336 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT TRAFFIC CONTROL AND PROTECTION, STANDARD 40600982 SQ YD 106 70102620 L SUM JOINT HOT-MIX ASPHALT SURFACE COURSE, MIX 40603340 TON 1180 1180 70300100 SHORT TERM PAVEMENT MARKING FOOT 2404 2404 "0". N70 44000155 HOT-MIX ASPHALT SURFACE REMOVAL, 1 1/2" SO YD 3558 3558 70300150 SHORT TERM PAVEMENT MARKING REMOVAL SO FT 1666 1666 TEMPORARY PAVEMENT MARKING LETTERS AND 44000158 HOT-MIX ASPHALT SURFACE REMOVAL. 2 1/4" 50 YD 10485 10485 70300210 SO FT 145.6 145.8 SYMBOLS 44201803 CLASS D PATCHES, TYPE 11, 13 INCH SQ YD 317 317 70300220 TEMPORARY PAVEMENT MARKING - LINE 4" FOOT 12925 12925 44201807 CLASS D PATCHES, TYPE III. 13 INCH 70300240 TEMPORARY PAVEMENT MARKING - LINE 6" FOOT 357 357 16 16 44201809 CLASS D PATCHES, TYPE IV. 13 INCH 50 YD 780 780 70300260 TEMPORARY PAVEMENT MARKING - LINE 12" FOOT 52 52 60252800 EACH 70300280 CATCH BASINS TO BE RECONSTRUCTED TEMPORARY PAVEMENT MARKING - LINE 24" FOOT 51 51 PAVEMENT MARKING TAPE, TYPE III -60300305 FRAMES AND LIDS TO BE ADJUSTED EACH 2 2 70300510 SQ FT 145.6 145.6 LETTERS AND SYMBOLS STEEL PLATE BEAM GUARDRAIL, TYPE A. 6 63000001 FOOT 150 70300520 PAVEMENT MARKING TAPE, TYPE III 4" FOOT FOOT POSTS 63100045 TRAFFIC BARRIER TERMINAL, TYPE 2 EACH 70300540 PAVEMENT MARKING TAPE, TYPE 111 6" 33 FILE NAME : DESIGNED -USER NAME # pyrzanowskirb REVISED -COUNTY SHEETS NO. SECTION WIRETON RD. - (127TH ST. TO VERMONT ST.) et\VLOB4EBIDINTEGJIRnots.gov:PWIDOT\Docume OF OFFICUS OF STRICT NPTO (ACT STOPS OF STREET REVISED STATE OF ILLINOIS COOK 19 3 CONTRACT NO. 62C80 3589 2016-028RS SUMMARY OF QUANTITIES PLOT SCALE \* 100,0000 1/ /A CHECKED -REVISED **DEPARTMENT OF TRANSPORTATION** PLOT DATE - 4/6/20/7 DATE REVISED SCALE: SHEET NO. 1 OF 2 SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 TILLINGIS FED. AID PROJECT

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URBAN CONSTRUCTION TYPE CODE 0005 CONSTRUCTION TYPE CODE SUMMARY OF QUANTITIES SUMMARY OF QUANTITIES 80/20 TOTAL (FEO STATE) TOTAL OUANTITIES 0005 CODE NO UNIT CODE NO QUANTITIES ITEM ITEM UNIT 70300560 PAVEMENT MARKING TAPE. TYPE III 12" 5 5 70300570 PAVEMENT MARKING TAPE, TYPE []] 24" THERMOPLASTIC PAVEMENT MARKING -78000100 SO FT 145.6 145.6 LETTERS AND SYMBOLS 78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4" FOOT 12925 12925 78000400 THERMOPLASTIC PAVEMENT MARKING - LINE 6" FOOT 357 357 78000600 THERMOPLASTIC PAVEMENT MARKING - LINE 12" FOOT 52 52 78000650 THERMOPLASTIC PAVEMENT MARKING - LINE 24" FOOT 51 51 78100100 RAISED REFLECTIVE PAVEMENT MARKER EACH 156 156 RAISED REFLECTIVE PAVEMENT MARKER 78300200 EACH 156 156 REMOVAL DETECTOR LOOP REPLACEMENT 88600600 FOOT 502 502 X5537800 STORM SEWERS TO BE CLEANED 12" FOOT 100 100 FRAMES AND LIDS TO BE ADJUSTED X6030310 21 21 (SPECIAL) X7030005 TEMPORARY PAVEMENT MARKING REMOVAL SO FT 5064 5064 COMBINATION CONCRETE CURB AND GUTTER Z0004562 FOOT 70 70 REMOVAL AND REPLACEMENT DRAINAGE STRUCTURES TO BE CLEANED Z0018500 EACH 20 20 \* SPECIALTY ITEMS TEMPORARY INFORMATION SIGNING Z0030850 50 FT 77.1 A NON-PARTICIPATING ITEMS COUNTY TOTAL SHEET NO.
COOK 19 4
CONTRACT NO. 62C80 FILE NAME : DESIGNED . USER NAME : Dyczanowskie REVISED -SECTION WIRETON RD. - (127TH ST. TO VERMONT ST.) STATE OF ILLINOIS owiNVLDB4EBIDIKTEGJIRnolsgovPKIDDT-DocumentsVDDT-OfficesNDIstrict NP10fectsND138Ti6/CADData/Destgn/DI38Ti6-DRAMKMgn REVISED . 3589 2016-028RS SUMMARY OF QUANTITIES PLOT SCALE = 100,0000 1/ 14 CHECKED -DEPARTMENT OF TRANSPORTATION REVISED -PLOT DATE + 4/6/20/7 DATE REVISED SCALE: SHEET NO. 2 OF 2 SHEETS STA. TO STA. FEO. ROAD DIST, NO. 1 ILLINOIS FED. AID PROJECT



#### **LEGEND:**

- (1) EXISTING PCC BASE COURSE (±7")
- 2 EXISTING HMA SURFACE COURSE (±6")
- (3) EXISTING PCC BASE COURSE (±11")
- (4) EXISTING HMA SHOULDER 8"
- (5) EXISTING CONC. MEDIAN
- (6) EXISTING COMB. CONC. CURB AND GUTTER TYPE-B 6.12
- (7) PROPOSED HMA SURFACE REMOVAL, 21/4"
- 8) PROPOSED HMA SURFACE REMOVAL, 11/2"
- 9) PROPOSED POLY. LEVELING BINDER (MM), IL-4.75, N50, 3/4"
- (10) PROPOSED HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 11/2"

#### HMA MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS @ NDES	QUALITY MANAGEMENT PROGRAM (QMP)
PAVEMENT RESURFACING		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% @ 70 GYR	QC/QA
POLYMERIZED LEVELING BINDER, (MM), IL 4.75, N50	3.5% @ 50 GYR	QC/QA
PAVEMENT SHOULDERS		
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% @ 70 GYR	QC/QA
PAVEMENT PATCHING		
CLASS D PATCHES (HMA BINDER IL-19mm)	4% @ 70 GYR	QC/QA
QMP DESIGNATION: QUALITY CONTROL/ QL	JALITY ASSURANCE (C	(C/QA)

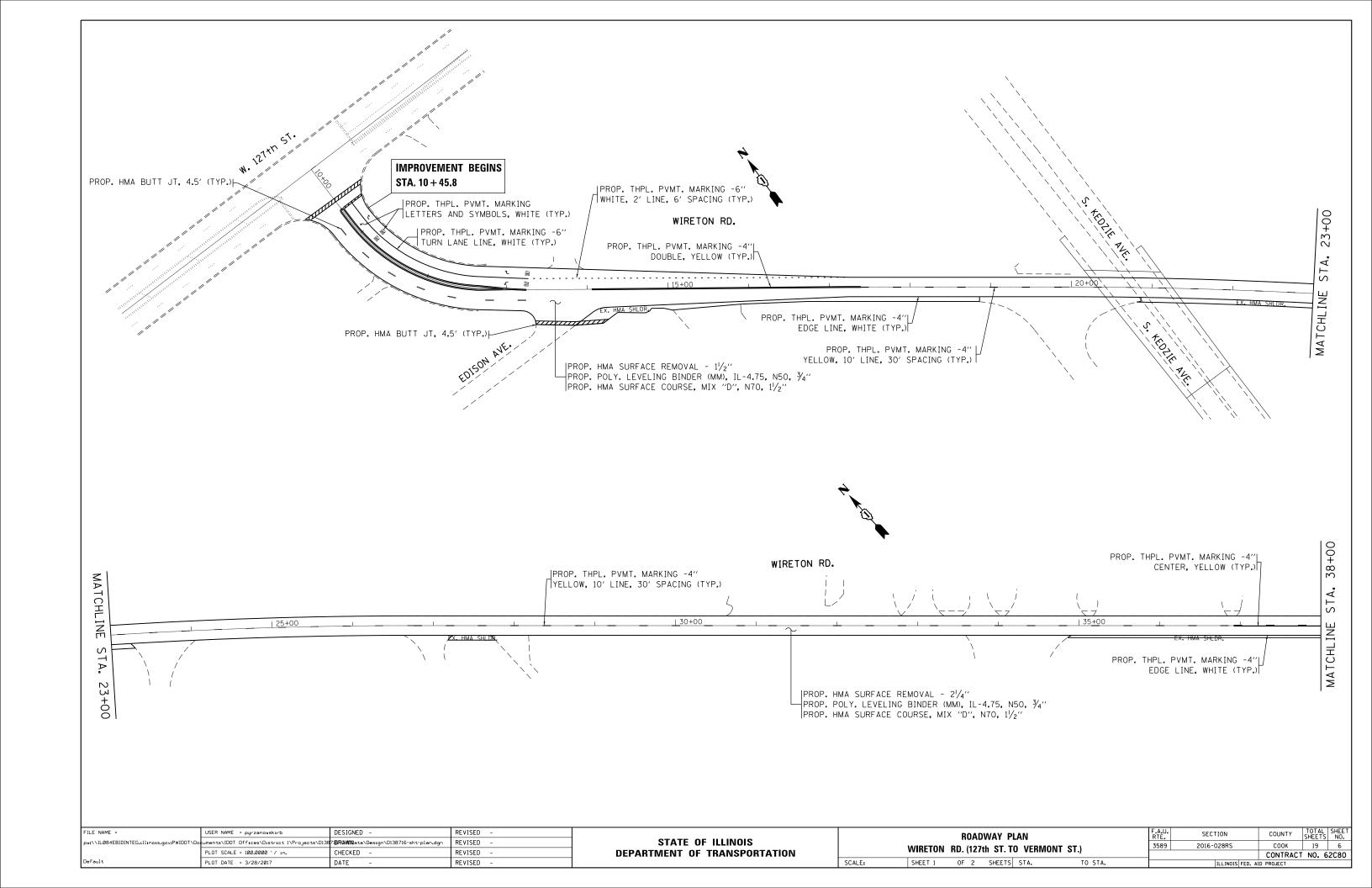
THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/SQYD/IN.

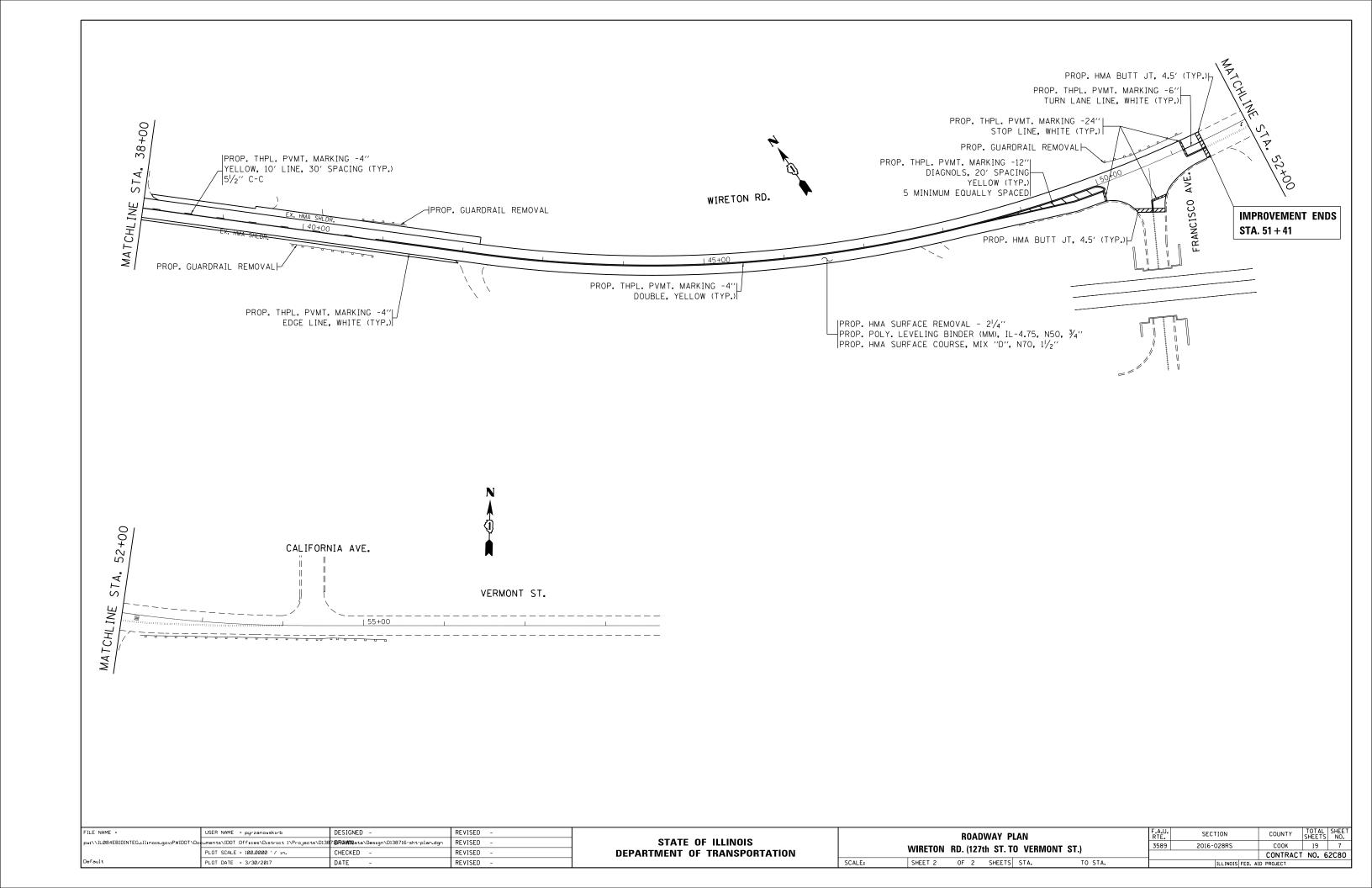
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 76 -22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64 -22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS. FOR USE OF RECYCLED MATERIALS SEE SPECIAL PROVISIONS. QUALITY MANAGEMENT PROGRAM (QMP) IDENTIFIES THE PARTICULAR QUALITY CONTROL SPECIFICATION THAT APPLIES TO THE HMA MIXTURE.

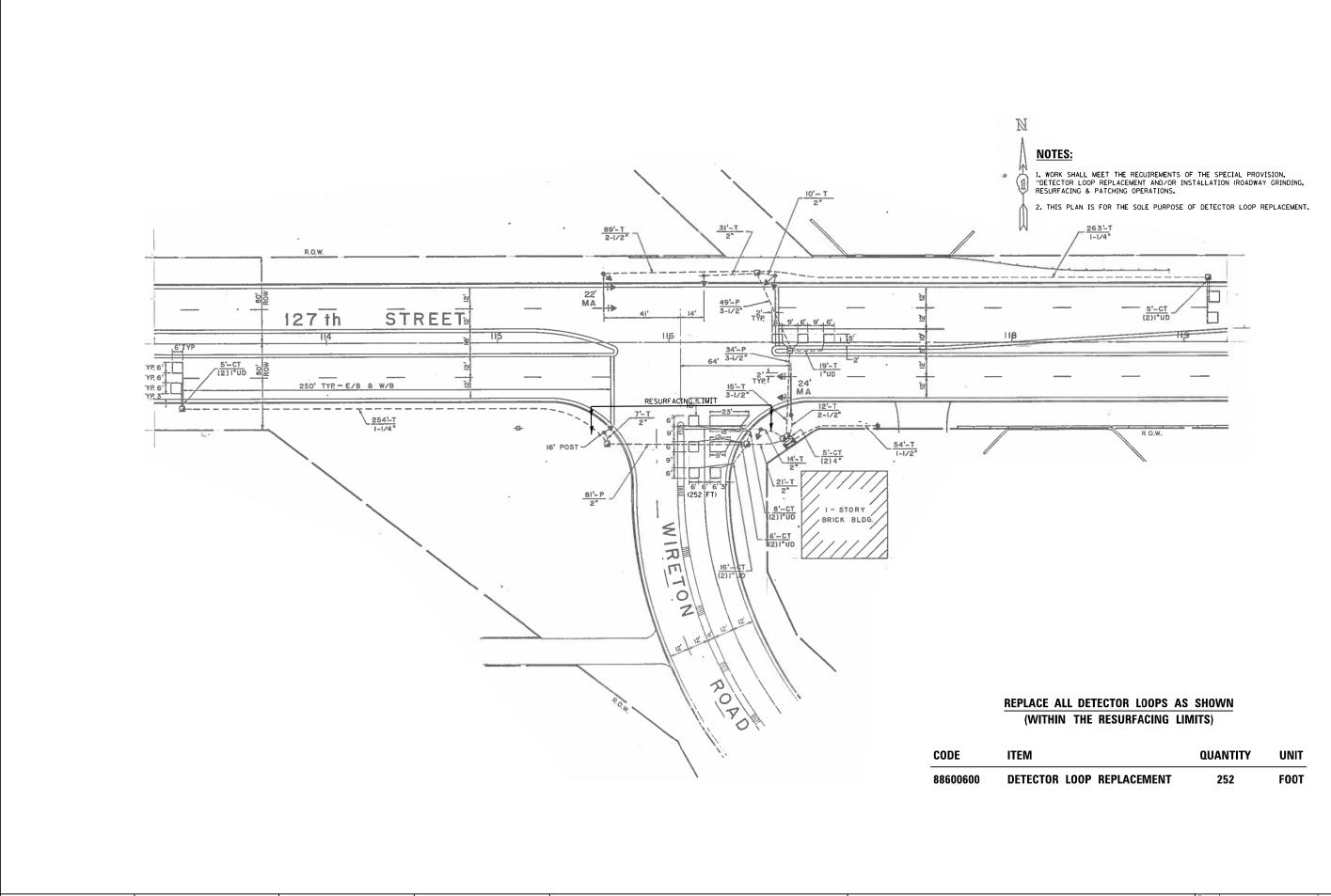
#### NOTE:

#### CONTRACTOR SHALL MILL FIRST BEFORE PATCHING

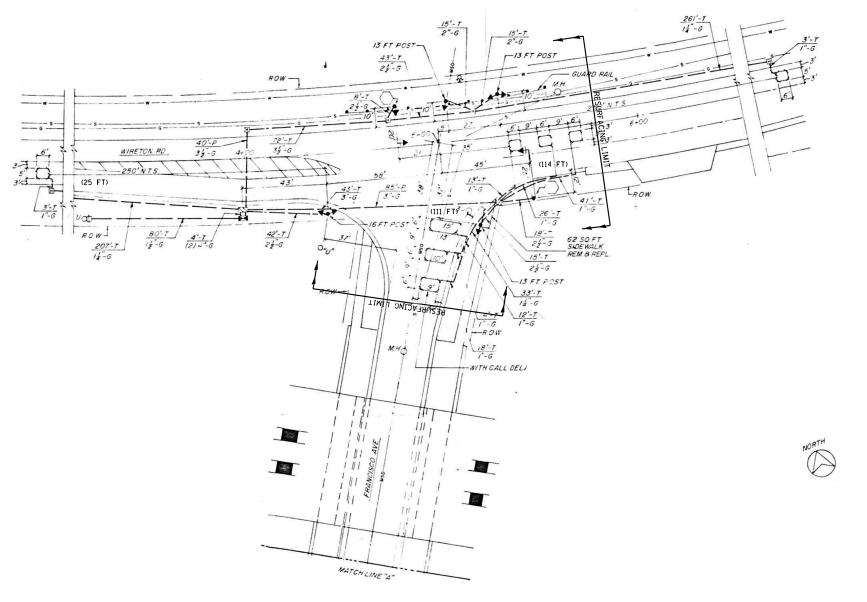
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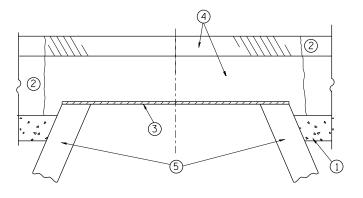


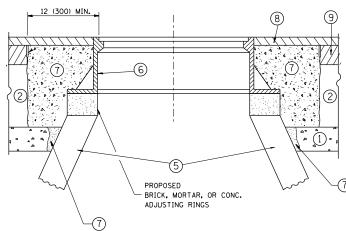
- 1. WORK SHALL MEET THE REQUIREMENTS OF THE SPECIAL PROVISION, "DETECTOR LOOP REPLACEMENT AND/OR INSTALLATION (ROADWAY GRINDING, RESURFACING & PATCHING OPERATIONS.
- 2. THIS PLAN IS FOR THE SOLE PURPOSE OF DETECTOR LOOP REPLACEMENT.

# (WITHIN THE RESURFACING LIMITS)

CODE	ITEM	QUANTITY	UNIT
88600600	DETECTOR LOOP REPLACEMENT	250	F00T

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED -	REVISED -			DETEC	CTOR IO	OP REP	LACEMENT	ΡΙΔΝ	F.A.U.	SECTION	COUNTY	TOTAL	SHEET NO.
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EXISTING BROKEN FRAMES AND LIDS SHALL BE REMOVED AND DISPOSED OF BY THE CONTRACTOR AND SHALL BE REPLACED AS DIRECTED BY THE ENGINEER. REPLACEMENT FRAMES AND LIDS WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS UNLESS A SEPARATE PAY ITEM HAS BEEN PROVIDED.

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

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

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

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

#### CONSTRUCTION PROCEDURES

#### STAGE 1 (BEFORE PAVEMENT MILLING)

- A) REMOVE A MINIMUM OF 12 (300) OF THE PAVEMENT FROM
- AROUND THE STRUCTURE.

  B) REMOVE THE EXISTING FRAME AND LID FROM THE STRUCTURE.
- C) COVER THE STRUCTURE OPENING WITH A 36 (900) DIAMETER METAL PLATE. D) BACKFILL WITH CRUSHED STONE AND A MINIMUM  $1\frac{1}{2}$  (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

#### LEGEND

- 1 SUB-BASE GRANULAR MATERIAL
- (6) FRAME AND LID (SEE NOTES)
- 2 EXISTING PAVEMENT

(5) EXISTING STRUCTURE

- (7) CLASS PP-1\* CONCRETE
- 3 36 (900) DIAMETER METAL PLATE
- (8) PROPOSED HMA SURFACE COURSE
- PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- (9) PROPOSED HMA BINDER COURSE

#### LOCATION OF STRUCTURES:

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

#### BASIS OF PAYMENT:

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

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

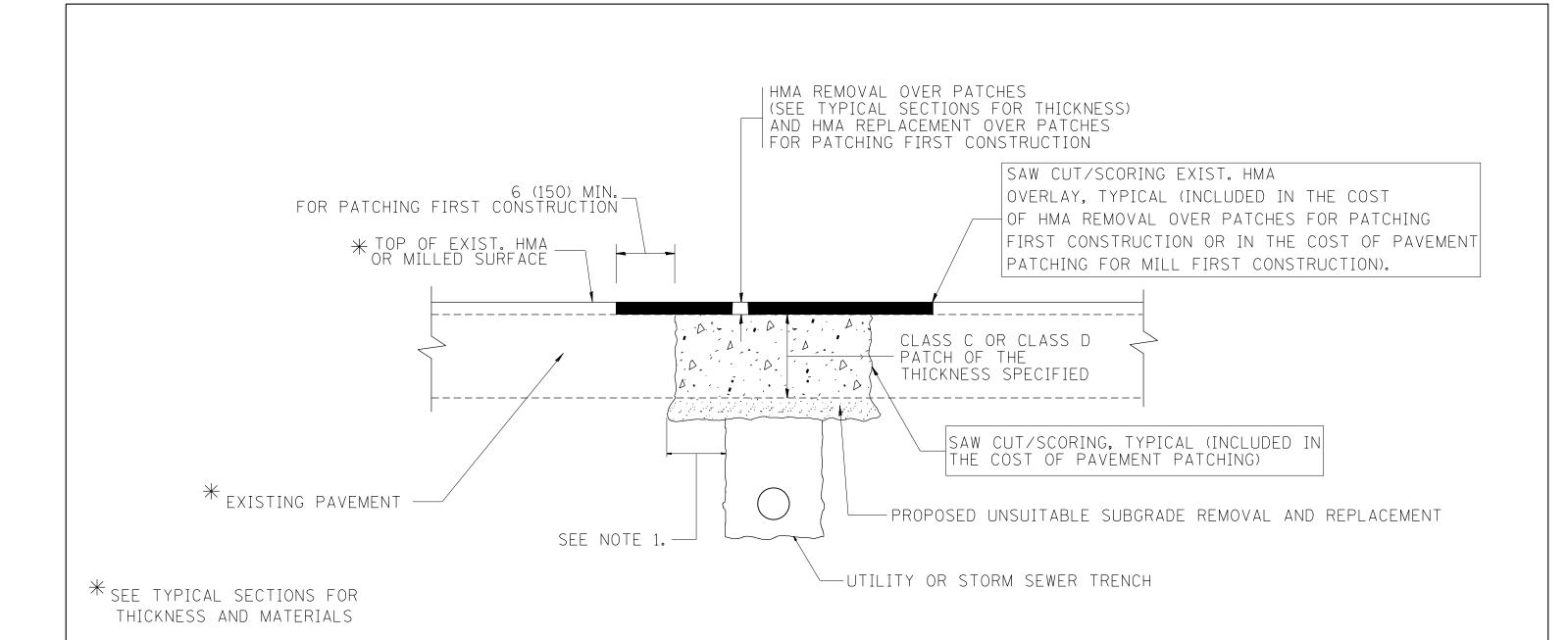
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

19 **10** 

CONTRACT NO. 62C80

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED - R. SHAH	REVISED - R. WIEDEMAN 05-14-04
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	PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED - R. BORO 03-09-11
	PLOT DATE = 3/17/2017	DATE - 10-25-94	REVISED - R. BORO 12-06-11

	DI	TAILS FO	R		F.A RTE.	SECTION	COUNTY
	FRAMES AND LIDS	H MILLING	3589	2016-028RS	COOK		
		II WILLING		BD600-03 (BD-8)	CONTRAC		
SCALE: NONE	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. RO	DAD DIST. NO. 1   ILLINOIS FED. AI	D PROJECT



- 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)

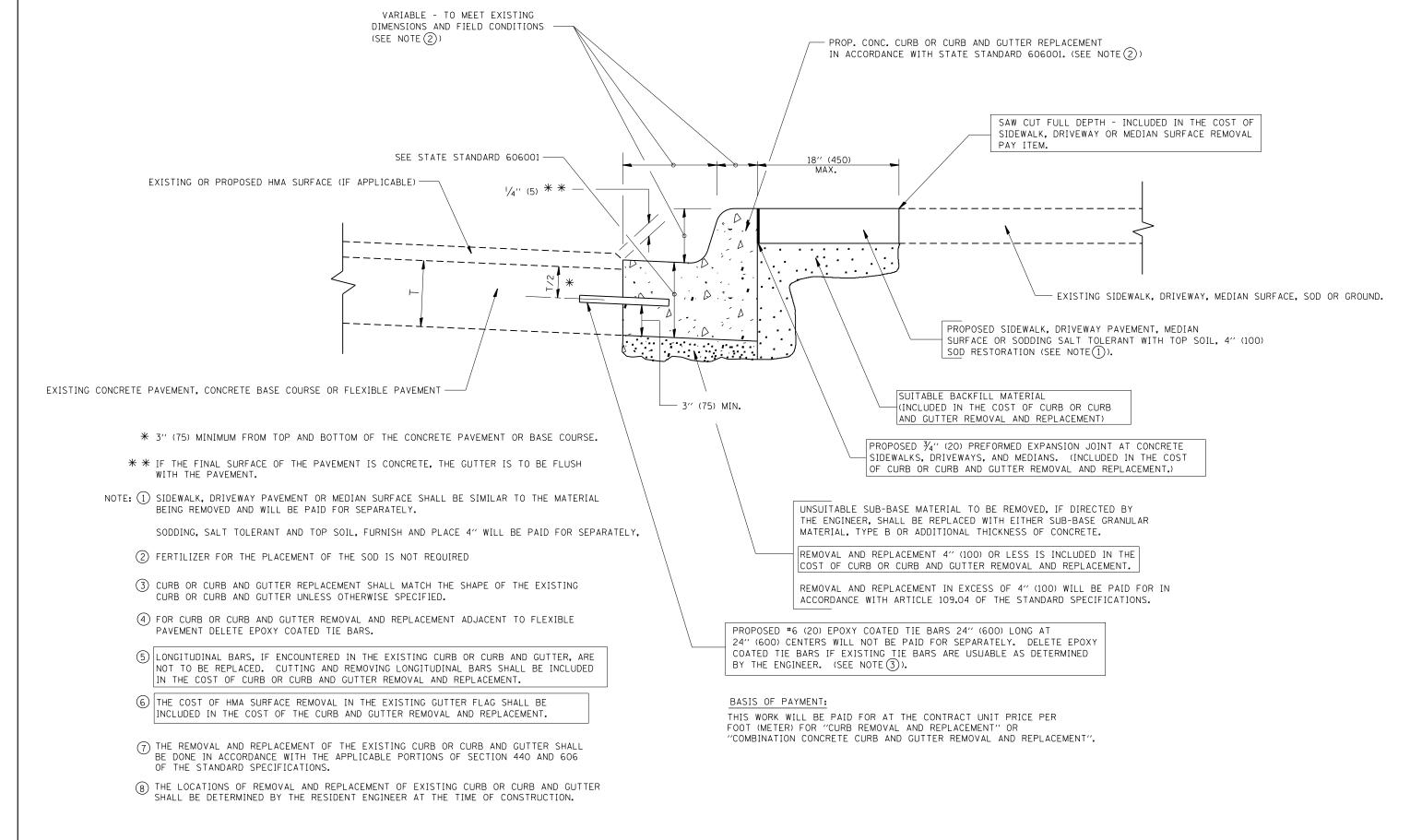
- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE WITH CLASS C OR D PATCH.
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

#### 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.

Γ	FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED - R. SHAH	REVISED -	A. ABBAS 04-27-98			PAVEMENT PATCHING FOR		F.A	SECTION	COUNTY	CHEETC	SHEET
	pw:\\IL084EBIDINTEG.:ll:nois.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D138	71 <b>BR@MDN</b> ata\Design\D138716-sht-plan.dgn	REVISED -	R. BORO 01-01-07	STATE OF ILLINOIS			ļ.	3589	2016-028RS	соок	19	11
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	R. BORO 09-04-07	DEPARTMENT OF TRANSPORTATION		HMA SURFACED PAVEMENT		BD4	400-04 (BD-22)	CONTRACT	NO. E	2080
		PLOT DATE = 3/17/2017	DATE - 10-25-94	REVISED -	K. ENG 10-27-08		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS STA. TO	O STA.		DIST. NO. 1 ILLINOIS FED. A	ID PROJECT		



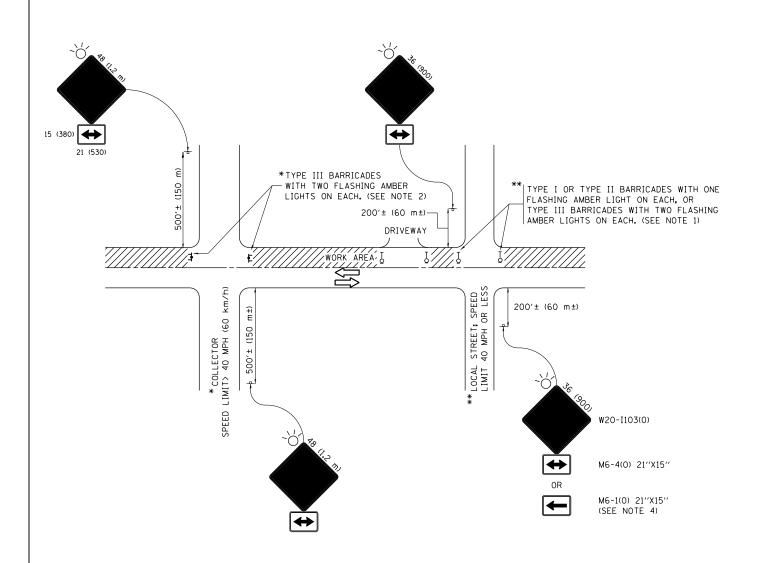
# CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

19 12

CONTRACT NO. 62C80

FILE NAME =  pw:\\ILØ84EBIDINTEG.:111:no:s.gov:PWIDOT\Doc	USER NAME = pyrzanowskirb cuments\IDOT Offices\District 1\Projects\Di38	DESIGNED - A. HOUSEH 71BRAMMata\Design\D138716-sht-plan.dgn	REVISED - R. SHAH 10-03-96  REVISED - A. ABBAS 03-21-97	STATE OF ILLINOIS		CURB OR CURB AND G	UTTER	RTE. 3589	SECTION 2016-028RS	COUNTY
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED - M. GOMEZ 01-22-01	DEPARTMENT OF TRANSPORTATION		REMOVAL AND REPLACE	MENT	1	BD600-06 (BD-24)	CONTRACT
	PLOT DATE = 3/17/2017	DATE - 03-11-94	REVISED - R. BORO 12-15-09		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS ST	A. TO STA.	FED. RO	AD DIST. NO. 1 ILLINOIS FED.	AID PROJECT



- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 36 x 36 (900x900) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
  - a) ONE "ROAD CONSTRUCTION AHEAD" SIGN 48 x 48 (1.2 m x 1.2 m) WITH A FLASHER MOUNTED ON IT APPROXIMATELY 500" (150 m) IN ADVANCE OF THE MAIN ROUTE.
  - b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT
- 4. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (M6-1) SHALL BE USED IN LIEU OF THE DOUBLE HEADED ARROW (M6-4).

SCALE: NONE

- 5. WHEN WORK IS BEING PERFORMED ON A SIDE ROAD OR DRIVEWAY, FOLLOW THE APPLICABLE STANDARD(S). THE DIRECTIONAL ARROW (M6-1 OR M6-4) SHALL BE COVERED OR REMOVED WHEN NO LONGER CONSISTENT WITH THE TRAFFIC CONTROL SET-UP.
- 6. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE SPECIFIED IN THE PLANS OR BY THE ENGINEER
- 7. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

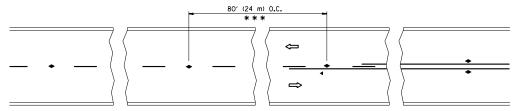
All dimensions are in inches (millimeters) unless otherwise shown.

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED - L.H.A.	REVISED	- A. HOUSEH 10-15-96
pw:\\ILØ84EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D138	7 <b>BRAWM</b> ata\Design\D138716-sht-plan.dgn	REVISED	-T. RAMMACHER 01-06-00
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED	- A. SCHUETZE 07-01-13
Default	PLOT DATE = 3/17/2017	DATE - 06-89	REVISED	- A. SCHUETZE 09-15-16

STATI	: OI	F ILLINOIS
DEPARTMENT	0F	TRANSPORTATION

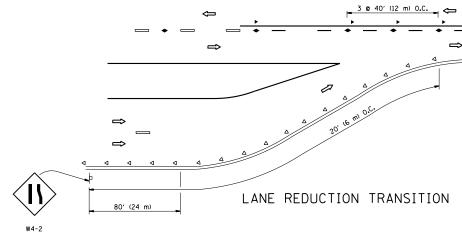
	TRAFFIC (	CONT	RO	L AND F	ROTEC	TION FOR	F
SI	DE ROADS	INIT	FR	SECTIONS	: AND	DRIVEWAYS	3
31	DE HUADS	,	LII	or o i i o i v	, AND	DIIIVEWAIS	
	SHEET 1	OF	1	SHEETS	STA.	TO STA.	-

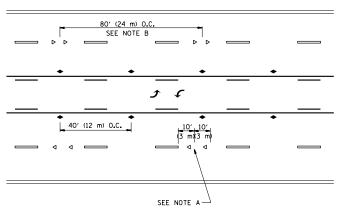
	TILLINOIS FED. AT	D PROJECT		
	TC-10	CONTRACT	NO. 6	2080
3589	2016-028RS	COOK	19	13
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.



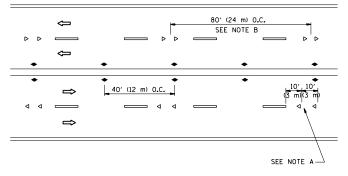
\*\*\* REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

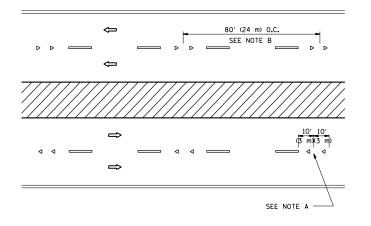




TWO-WAY LEFT TURN



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.

B. REDUCE TO 40' (12 m) O.C. ON CURVES WHERE ADVISORY SPEEDS ARE 10 M.P.H (20 km/h) LOWER THAN POSTED SPEEDS.

#### SYMBOLS

---- YELLOW STRIPE

---- WHITE STRIPE

- ONE-WAY AMBER MARKER
- ONE-WAY CRYSTAL MARKER (₩/O)
- ◆ TWO-WAY AMBER MARKER

#### DESIGN NOTES

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

#### MINIMUM OF 3 W EQUALLY SPACED 3 @ 80' (24 m) O.C. — \_\_\_ 3 @ 80' (24 m) O.C. 3 @ 40' (12 m) 3 @ 40' (12 m) 40' (12 m) 0.C. 40' (12 m) 0.C. ⇔ $\Rightarrow$ ◆ 40′ (12 m) 0.C. 40' (12 m) 0.C. \* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE \*\* WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

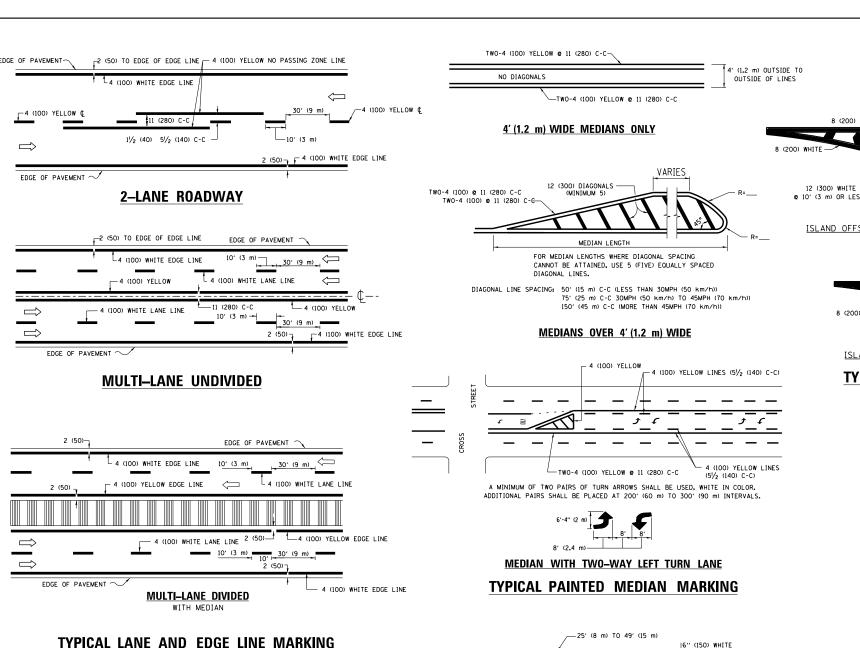
All dimensions are in inches (millimeters) unless otherwise shown.

TOTAL SHEET NO.

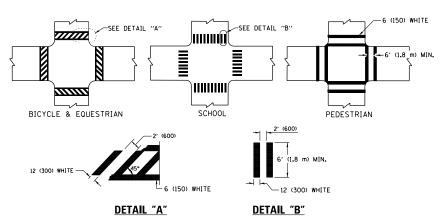
CONTRACT NO. 62C80

COUNTY

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED -	REVISED -T. RAMMACHER 09-19-94		TYPICAL APPLICATIONS	RTE.	SECTION	COUNTY
pw:\\IL084EBIDINTEG.:111:nois.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D138	71BRANDNata\Design\D138716-sht-plan.dgn	REVISED -T. RAMMACHER 03-12-99	STATE OF ILLINOIS		3589	2016-028RS	соок
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED -T. RAMMACHER 01-06-00	DEPARTMENT OF TRANSPORTATION	RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)	TC-	-11	CONTRACT
	PLOT DATE = 3/17/2017	DATE -	REVISED - C. JUCIUS 09-09-09		SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.	FED. ROAD DIST. NO	. 1 ILLINOIS FED. AI	



#### TYPICAL LANE AND EDGE LINE MARKING



#### TYPICAL CROSSWALK MARKING

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

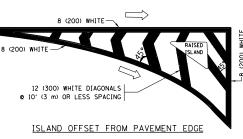
# −50′ (15 m) TO 200′ (60 m) <del>||</del> OVER 200' (60 m) \_\_\_\_ 6 (150) WHITE

FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SO. FT. (1.5 m<sup>2</sup> ) ONLY AREA = 20.8 SO. FT. (1.9 m<sup>2</sup>)

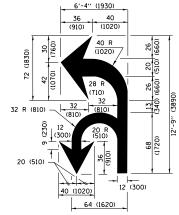
\* TURN LANES IN EXCESS OF 400' (120 m) IN LENGTH MAY HAVE AN ADDITIONAL SET OF ARROW - "ONLY" INSTALLED MIDWAY BETWEEN THE OTHER TWO SETS OF ARROW - "ONLY".

TYPICAL LEFT (OR RIGHT) TURN LANE

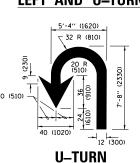
TYPICAL TURN LANE MARKING

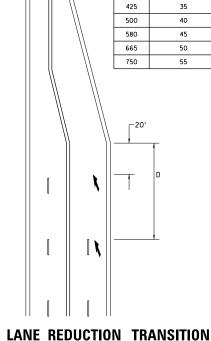






# COMBINATION LEFT AND U-TURN





D(FT)

345

SPEED LIMIT

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

			1	
TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING /REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKIP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVIDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	11 (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	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)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MEDIANS IN YELLOW
TURN LANE MARKINGS	6 (150) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION 8' (2.4m) LEFT ARROW	SKIP-DASH AND SOLID IN PAIRS	YELLOW WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH, 5/2 (140) C-C BETWEEN SOLID LINE AND SKIP-DASH LINE SEE TYPICAL TWO-WAY LEFT TURN MARKING DETAIL
CROSSWALK LINES (PEDESTRIAN) A. DIAGONALS (BIKE & EQUESTRIAN) B. LONGITUDINAL BARS (SCHOOL)	2 <b>e</b> 6 (150) 12 (300) <b>e</b> 45° 12 (300) <b>e</b> 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (1.8 m) APART 2' (600) APART 2' (600) APART 5EE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	PLACE 4' (1.2 m) IN ADVANCE OF AND PARALLEL TO CROSSMALK, IF PRESENT. OTHERNISE, PLACE AT DESIRED STOPPING POINT. PARALLEL TO CROSSROAD CENTERLINE, WHERE POSSIBLE
PAINTED MEDIANS	2 @ 4 (100) WITH 12 (300) DIAGONALS @ 45° NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS	SOLID	YELLOW: TWO WAY TRAFFIC WHITE: ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4,5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS (REOUIRED FOR SHOULDERS ≥ 8')	12 (300) <b>©</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 (0VER 45MPH (70 km/h))
U TURN ARROW	SEE DETAIL	SOLID	WHITE	16.3 SF
2 ARROW COMBINATION LEFT AND U TURN	SEE DETAIL	SOLID	WHITE	30.4 SF

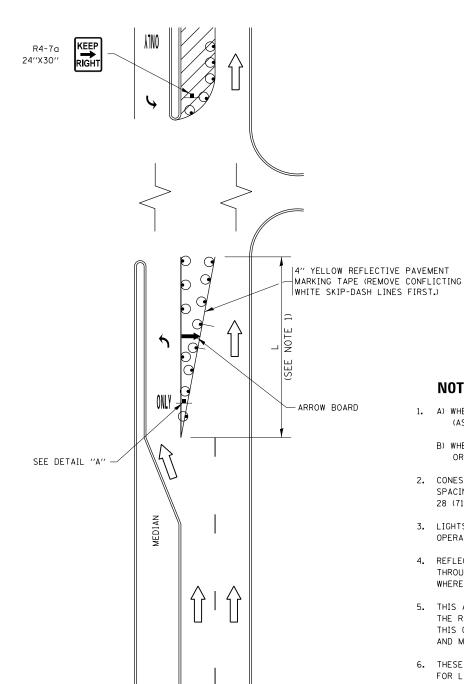
FOR FURTHER DETAILS ON PAVEMENT MARKING REFER TO STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION AND STATE STANDARD 780001.

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

FILE NAME = DESIGNED - EVERS USER NAME = pyrzanowskirb REVISED - C. JUCIUS 09-09-09 ow:\\ILØ84EBIDINTEG.:ll:no: ments\IDOT Offices\District 1\Projects\D1387**IGR@AMDN**ata\Design\D138716-sht-plan.don REVISED -C. JUCIUS 07-01-13 CHECKED REVISED C. JUCIUS 12-21-15 PLOT DATE = 3/17/2017 DATE REVISED -C. JUCIUS 04-12-16

	DISTRICT ONE	F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
ı	TYPICAL PAVEMENT MARKINGS	3589	2016-028RS	COOK	19	15
ı			TC-13	CONTRACT	NO. 6	52C80
	SCALE: NONE   SHEET 1 OF 1 SHEETS   STA. TO STA.	ILLINOIS FED. AI	D PROJECT			

## TURN BAY ENTRANCE AT START OF LANE CLOSURE TAPER



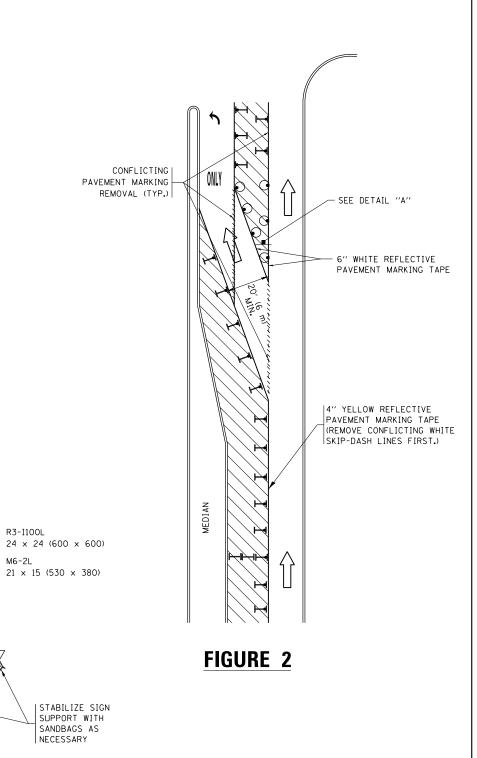
#### FIGURE 1

# **LEGEND** WORK AREA LANE OPEN TO TRAFFIC ARROW BOARD TYPE I OR II BARRICADE OR DRUM WITH STEADY BURN LIGHT DRUM WITH STEADY BURN LIGHT SIGN ASSEMBLY TYPE I OR II CHECK BARRICADE WITH FLASHING LIGHT

#### NOTES:

- 1. A) WHEN "L" IS < THE STORAGE LENGTH OF THE TURN LANE (AS SHOWN IN FIG. 1), USE FIGURE 1.
  - B) WHEN "L" IS > THE STORAGE LENGTH OF THE TURN LANE OR THE TURN LANE IS WITHIN THE LANE CLOSURE, USE FIGURE 2.
- 2. CONES MAY BE SUBSTITUTED FOR BARRICADES OR DRUMS AT HALF THE SPACING DURING DAY OPERATIONS. CONES SHALL BE A MINIMUM OF 28 (710) IN HEIGHT.
- 3. LIGHTS WILL NOT BE REQUIRED ON BARRICADES OR DRUMS FOR DAY OPERATIONS. ALL LIGHTS SHALL BE MONODIRECTIONAL.
- 4. REFLECTIVE TEMPORARY PAVEMENT MARKINGS SHALL BE PLACED THROUGHOUT THE BARRICADED AREAS OF EACH TURN BAY AS SHOWN WHERE THE CLOSURE TIME IS GREATER THAN FOURTEEN (14) DAYS.
- 5. THIS APPLICATION ALSO APPLIES WHEN WORK IS BEING PERFORMED IN THE RIGHT LANE(S) AND THE RIGHT TURN BAY IS TO REMAIN OPEN. UNDER THIS CONDITION, "RIGHT TURN LANE" R3-I100R 24 x 24 (600 x 600) AND M6-2R 21  $\times$  15 (530  $\times$  380) SHALL BE USED.
- 6. THESE CONTROLS SHALL SUPPLEMENT MAINLINE TRAFFIC CONTROL FOR LANE CLOSURES.
- 7. THE SIGNS SHALL BE MOUNTED ABOVE THE BARRICADES/DRUMS ON SEPARATE SIGN SUPPORTS THAT MEET NCHRP 350 OR MASH PREQUIREMENTS.
- 8. TRAFFIC CONTROL AND PROTECTION AT TURN BAYS (TO REMAIN OPEN TO TRAFFIC) SHALL BE INCLUDED IN THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

## **TURN BAY ENTRANCE** WITHIN A LANE CLOSURE

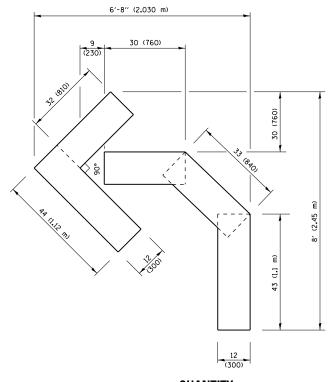


#### **DETAIL A**

TURN

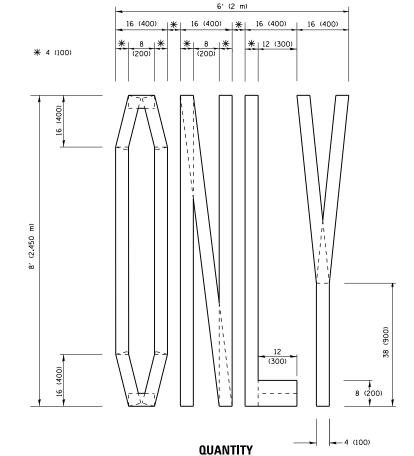
All dimensions are in inches (millimeters) unless otherwise shown.

	USER NAME = pyrzanowskirb	REVISED -	T. RAMMACHER 09-08-9		- R. BORO 09-14-09		TRAF	FIC CONTE	ROL AND	PROTE	CTION AT TU	RN BAYS	RTE.	SECTION	COUNTY	SHEETS	SHEE!
pw:\\IL084EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D138	71 <b>REW41SÆ£Ð</b> a.∖De	esign <b>V01381018SEH-d11e</b> r0 <i>3</i> gr95								TO TRAFFIC)		3589	2016-028RS	соок	19	16
	PLOT SCALE = 100.0000 ' / in.	REVISED -	A. HOUSEH 10-12-96	REVISED	- A. SCHUETZE 09-15-16	DEPARTMENT OF TRANSPORTATION		(10	NEIVIAIIV	OFEN	IU INAFFIC)			TC-14	CONTRAC	T NO.	62C80
Default	PLOT DATE = 3/17/2017	REVISED -	T. RAMMACHER 01-06-0	O REVISED	-		SCALE: NONE	SHEET 1	OF 1	SHEETS	STA.	TO STA.		ILLINOIS FED.	AID PROJECT		

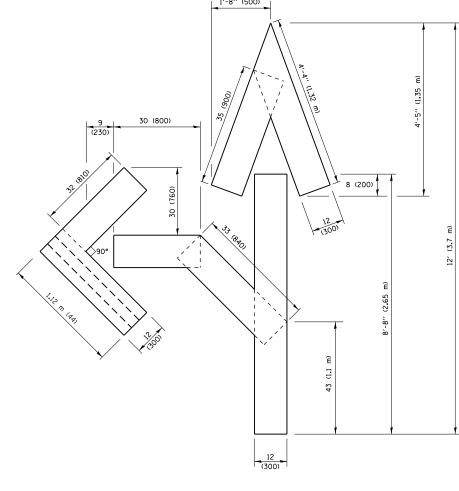


#### **QUANTITY**

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



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

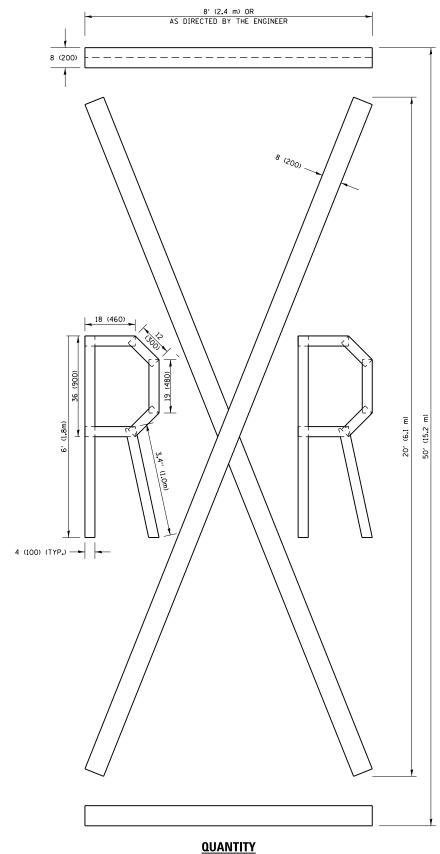


#### QUANTITY

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

#### NOTE:

ALL QUANTITIES OF PLACEMENT ARE REPRESENTED IN LINEAR FEET OF 4" LINES TO MATCH THE 4" TEMPORARY TAPE PAY ITEM AND REPRESENTS THE TOTAL QUANTITY OF 4" TAPE REQUIRED.

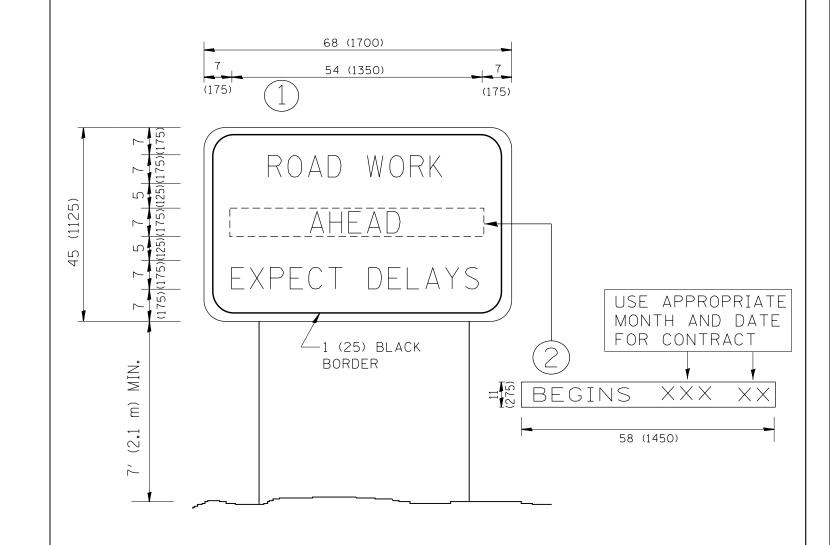


4 (100) LINE = 225.9 ft. (68.9 m) 75.3 sq. ft. (6.99 sq. m)

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

FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED -	REVISED	-T. RAMMACHER 03-02-98
pw:\\IL084EBIDINTEG.:1ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D138	7 <b>16R0AWIN</b> ata\Design\D138716-sht-plan.dgn	REVISED	-E. GOMEZ 08-28-00
	PLOT SCALE = 100.0000 '/ in.	CHECKED -	REVISED	-E. GOMEZ 08-28-00
	PLOT DATE = 3/17/2017	DATE - 09-18-94	REVISED	- A. SCHUETZE 09-15-16

						F.A RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
SHORT	TERM	PAVEMENT	MARKING	LETTERS AND	SYMBOLS	3589	2016-028RS	СООК	19	17
							TC-16	CONTRACT	NO. (	52C80
SCALE: NONE	SHEET	NO. 1 OF 1	SHEETS	STA.	TO STA.	EEU B	OAD DIST NO 1 TILINOIS FED A	ID PROJECT		



- 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.

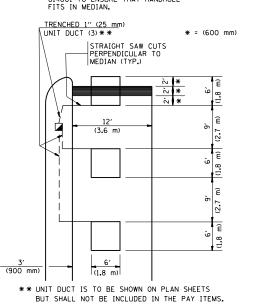
ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN.

Ī	FILE NAME =	USER NAME = pyrzanowskirb	DESIGNED -	REVISED -	R. MIRS 09-15-97			ARTERIAL ROA	n.		F.A RTF.	SECTION	COUNTY	TOTAL	SHEET NO.
	pw:\\ILØ84EBIDINTEG.:ll:no:s.gov:PWIDOT\Do	cuments\IDOT Offices\District 1\Projects\D138			R. MIRS 12-11-97	STATE OF ILLINOIS		INFORMATION			3589	2016-028RS	COOK	19	18
		PLOT SCALE = 100.0000 ' / in.	CHECKED -	REVISED -	T. RAMMACHER 02-02-99	DEPARTMENT OF TRANSPORTATION			SIUN			TC-22	CONTRACT	NO. 6	2C80
		PLOT DATE = 3/17/2017	DATE -	REVISED -	C. JUCIUS 01-31-07		SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.	FED. ROAD	DIST. NO. 1 ILLINOIS FED. A	D PROJECT		$\overline{}$

# 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.

# LEFT TURN LANES WITH MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH (PROTECTED / PERMITTED LEFT TURN PHASING) HANDHOLE LOCATION MAY VARY DEFENDING ON GEOMETRICS

HANDHOLE LOCATION MAY
VARY DEPENDING ON GEOMETRICS
AND DESIGN OF TRAFFIC SIGNALS,
HEAVY-DUTY HANDHOLES TO BE
USED WHEN THE MEDIAN IS
MOUNTABLE. REFER TO STANDARD
814001 TO ENSURE THAT HANDHOLE
FITS IN MEDIAN.

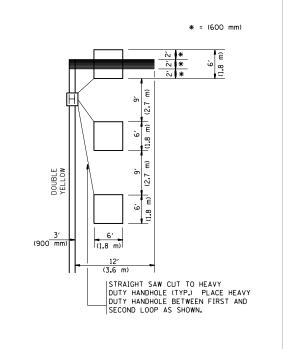


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO

PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

# LEFT TURN LANES WITHOUT MEDIANS VOLUME DENSITY ("FAR OUT" DETECTION) ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)



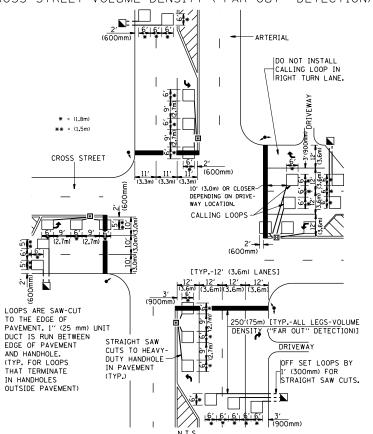
NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

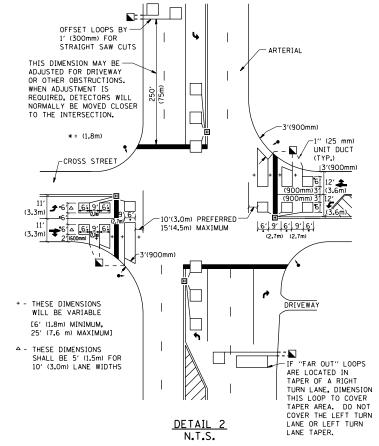
SCALE: NONE

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, SHIFLDED
- \* 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.

#### JOTE.

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.

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	PLOT SCALE = 100.0000 '/ in.	CHECKED - R.K.F.	REVISED -
	PLOT DATE = 3/17/2017	DATE -	REVISED -

DETAIL

N.T.S.

DISTRICT 1 – DETECTOR LOOP INSTALLATION  DETAILS FOR ROADWAY RESURFACING					F.A RTE.	SECTION	COUNTY	TOTAL SHEET:
					3589	2016-028RS	соок	19
					TS-07		CONTRACT NO.	
	SHEET NO. 1 OF 1	SHEETS	STA.	TO STA.	FED. R	FED. ROAD DIST. NO. 1   ILLINOIS   FED. AID PROJECT		