

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
145	13-0100-00-RS	LAKE	14	1
		ILLINOIS	CONTRACT NO. 61B54	

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR LIST OF HIGHWAY STANDARDS, SEE SHEET NO. 2

FUNCTIONAL CLASSIFICATION MAJOR COLLECTOR
2011 ADT = 1200
P.V. = 99.9% S.U. AND M.U. UNDEFINED

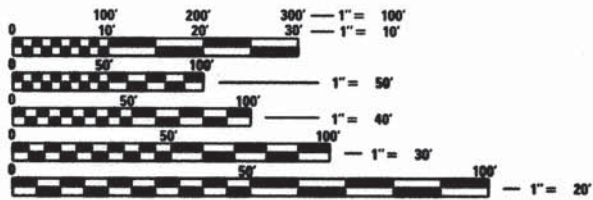
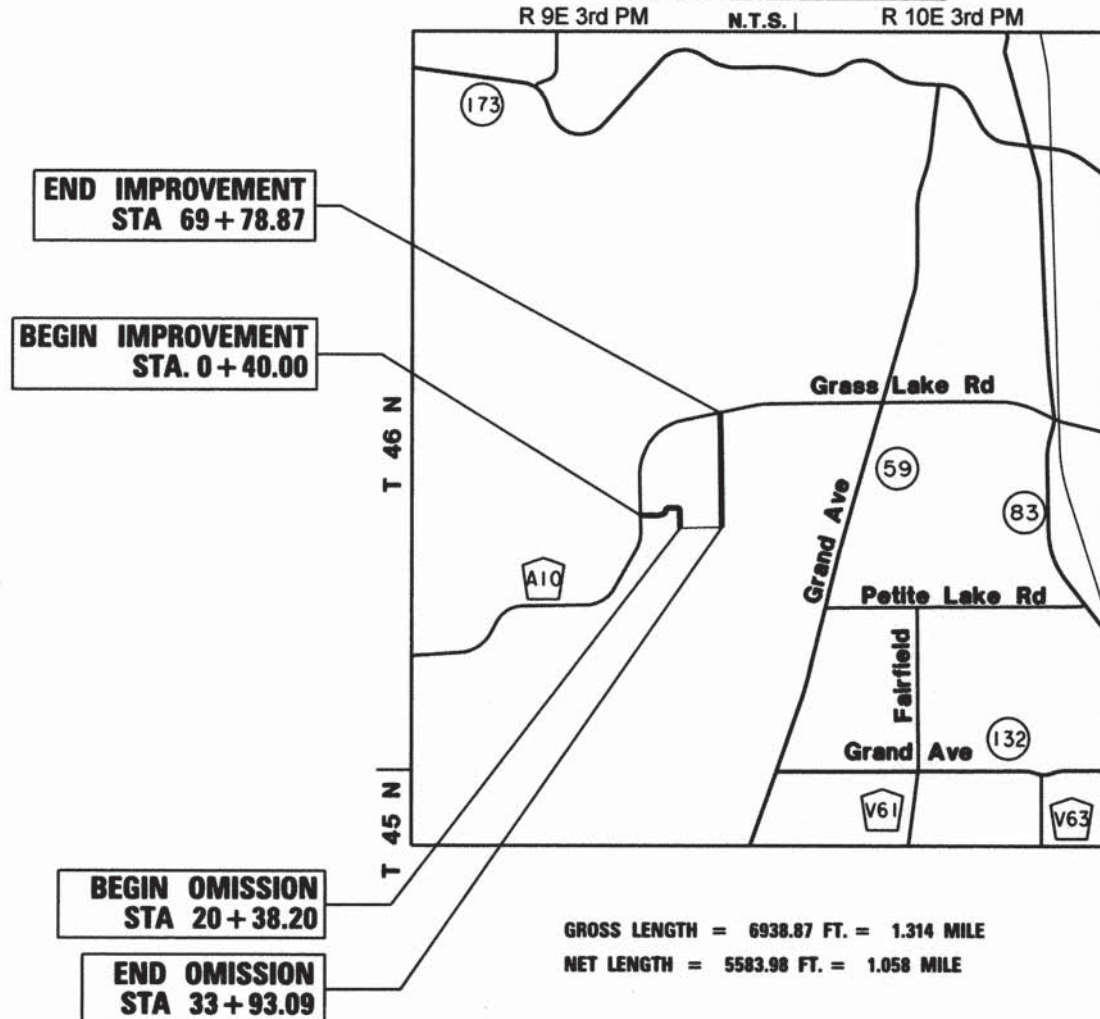
POSTED SPEED LIMIT RENA AVE. = 30 MPH
POSTED SPEED LIMIT PETITE PASS = 25 MPH
POSTED SPEED LIMIT KATHRYN DR. = 25 MPH

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

FAU ROUTE 145 RENA AVE, PETITE PASS & KATHRYN DR
FROM GRASS LAKE ROAD TO GRASS LAKE ROAD
ROADWAY PULVERIZATION AND RESURFACING
SECTION 13-01100-00-RS
PROJECT NO. M-4003(275)
ANTIOCH TOWNSHIP,
LAKE COUNTY
C-91-210-14



PROJECT LOCATION



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.

J.U.L.I.E.
JOINT UTILITY LOCATION INFORMATION FOR EXCAVATION
1-800-892-0123
OR 811

Federal Aid Program Manager: Fawad F. Aqueel, PE, PTOE (847) 705-4021, Schaumburg



Plans Prepared By: Lake County
Division of Transportation

Signature: *Richard D. McMorris*
Date: 11 March 2015
Illinois License No: 062-055379
Expiration Date: 11/30/2015
Field: CIVIL

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

Approved: *Mark Perry*
3-13-15
ANTIOCH TOWNSHIP, HIGHWAY COMMISSIONER

Passed: MARCH 25, 2015
Christopher Holt
DISTRICT ONE ENGINEER OF LOCAL ROADS & STREETS

Releasing for Bid
Based on Limited
Review: MARCH 25, 2015
John Fortman
DEPUTY DIRECTOR OF HIGHWAYS, REGION ONE ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CONTRACT NO. 61B54

INDEX OF SHEETS

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4	SUMMARY OF QUANTITIES
5-6	TYPICAL SECTIONS
7	QUANTITY SCHEDULES
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9	PLAN SHEET PETITE PASS (STA 14+50 to STA 20+13.19) RENA AVE (STA 33+43.62 to STA 40+50)
10	PLAN SHEET RENA AVE (STA 40+50 to STA 55+50)
11	PLAN SHEET RENA AVE (STA 55+50 to STA 70+55.63)
12-13	LCDOT STANDARDS LC4150 TOWNSHIP PAVEMENT MAILBOX TURNOUT & DRIVEWAY DETAILS LC7000 TWO LANE, TWO WAY, OFF-ROAD OPERATIONS DAY OPERATIONS ONLY LC7400 TRAFFIC CONTROL and PROTECTION for SIDEROADS, INTERSECTIONS and DRIVEWAYS LC7200 DIRECTION INDICATOR BARRICADES
14	TC-13 DISTRICT ONE TYPICAL PAVEMENT MARKINGS

LIST OF IDOT HIGHWAY STANDARDS

701006-05 ✓	OFF-RD OPERATIONS, 2L, 2W, 4.5 M (15') TO 600 MM (24") FROM PAVEMENT EDGE
701301-04 ✓	LANE CLOSURE, 2L, 2W, SHORT TERM OPERATIONS
701311-03 ✓	LANE CLOSURE, 2L, 2W, MOVING OPERATIONS - DAY ONLY
701501-06 ✓	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-04 ✓	TRAFFIC CONTROL DEVICES

1. GENERAL

- a. ALL CONSTRUCTION SHALL BE DONE ACCORDING TO THE STATE OF ILLINOIS "STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" ADOPTED JAN. 1, 2012; THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS, ADOPTED JAN. 1, 2015; THE LATEST EDITION OF THE "ILLINOIS MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS"; THE DETAILS IN THESE PLANS, AND THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS.
- b. THE CONTRACTOR SHALL NOTIFY THE ENGINEER AT LEAST 72 HOURS PRIOR TO BEGINNING WORK AND SHALL COORDINATE ALL CONSTRUCTION OPERATIONS WITH THE ENGINEER.
- c. THE CONTRACTOR SHALL COORDINATE HIS/HER WORK WITH ANY ADJACENT PROJECTS THAT ARE OR MAY BE UNDER CONSTRUCTION.
- d. THE CONTRACTOR SHALL VERIFY ALL DIMENSIONS AND EXISTING CONDITIONS IN THE FIELD PRIOR TO ORDERING MATERIALS AND BEGINNING CONSTRUCTION. WHERE NEW WORK IS PROPOSED TO MEET EXISTING FEATURES, IT SHALL BE THE CONTRACTOR'S RESPONSIBILITY TO FIELD CHECK ALL DIMENSIONS AND ELEVATIONS AND NOTIFY THE ENGINEER OF DISCREPANCIES BEFORE PROCEEDING WITH CONSTRUCTION.
- e. THE CONTRACTOR SHALL PROVIDE ACCESS TO ABUTTING PROPERTIES AT ALL TIMES DURING CONSTRUCTION, EXCEPT FOR BRIEF PERIODS OF INTERRUPTION. THE CONTRACTOR SHALL NOTIFY THE PROPERTY OWNER NO LESS THAN 24 HOURS IN ADVANCE OF THE INTERRUPTION OF ACCESS AND/OR SERVICES. THE NOTIFICATION WILL INCLUDE THE TIME AND DURATION OF THE INTERRUPTION. THE COST TO PROVIDE ACCESS SHALL BE PAID FOR AND INCLUDED IN THE COST OF TRAFFIC CONTROL AND PROTECTION, (SPECIAL).

2. REMOVAL

- a. THE CONTRACTOR SHALL SAW CUT THE EXISTING PAVEMENT, CONCRETE CURB & GUTTER, MEDIAN, HOT-MIX ASPHALT SHOULDER; SIDEWALK; AND/OR OTHER APPURTENANCES AS SHOWN ON THE PLANS, TO SEPARATE THE EXISTING MATERIAL TO BE REMOVED, BY MEANS OF AN APPROVED CONCRETE SAW TO A DEPTH SHOWN ON THE PLANS OR AS DIRECTED BY THE ENGINEER. THIS WORK SHALL BE INCLUDED IN THE UNIT COST OF PULVERIZATION.

THE CONTRACTOR SHALL BE REQUIRED TO SAW VERTICAL CUTS SO AS TO FORM CLEAN VERTICAL JOINTS. SHOULD THE CONTRACTOR DEFACE ANY EDGE, A NEW SAWED JOINT SHALL BE PROVIDED AND ANY ADDITIONAL WORK, INCLUDING REMOVAL AND REPLACEMENT, SHALL BE DONE AT THE CONTRACTOR'S EXPENSE.



USER NAME =	DESIGNED - ER	REVISED -
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	DATE - 2/27/2015	REVISED -

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

**ANTIOCH TOWNSHIP RESURFACING 2015
GENERAL NOTES & STANDARDS**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
145	13-0800-00-RS	LAKE	14	2
CONTRACT NO. 61B54				
ILLINOIS FED. AID PROJECT M-40032751				

- b. ALL EXCESS MATERIAL SHALL BE DISPOSED OF OFFSITE ON THE DAY IT IS EXCAVATED OR REMOVED.
- c. THE CONTRACTOR IS PROHIBITED FROM BURNING ANY MATERIAL WITHIN OR ADJACENT TO THE PROJECT LIMITS. ALL EXCESS OR WASTE MATERIAL SHALL BE HAULED AWAY FROM THE PROJECT SITE BY THE CONTRACTOR AND LEGALLY DISPOSED OF OUTSIDE THE RIGHT-OF-WAY. NO EXTRA COMPENSATION WILL BE ALLOWED THE CONTRACTOR FOR ANY EXPENSE INCURRED BY COMPLYING WITH THE REQUIREMENTS OF THIS NOTE.

3. DRIVEWAYS AND ENTRANCES

- a. EXISTING HOT-MIX ASPHALT DRIVEWAYS AND ENTRANCES SHALL BE RE-SURFACED BACK TO THE DISTANCE SHOWN ON THE PLANS WITH HOT-MIX ASPHALT SURFACE COURSE.
- b. REMOVAL OF DRIVEWAYS SHALL BE INCLUDED IN THE UNIT COST OF PULVERIZATION.

4. MILLED PAVEMENT: WHEN MILLED PAVEMENT IS OPEN TO TRAFFIC, THE MAXIMUM ELEVATION DIFFERENCE BETWEEN LANES, AT CONCRETE CURB AND GUTTER, OR EXISTING GROUND (SHOULDERS, ENTRANCES ETC...) SHALL NOT EXCEED 1.5 INCHES. WITH WRITTEN APPROVAL FROM THE ENGINEER THE MAXIMUM ELEVATION DIFFERENCE MAY BE UP TO 3 INCHES IF THE EDGE OF THE MILLING IS SLOPED A MINIMUM 3:1 (H:V).

5. SIGNS: THE CONTRACTOR WILL BE REQUIRED TO RELOCATE OR REMOVE AND REPLACE SIGNS WHICH INTERFERE WITH HIS/HER CONSTRUCTION OPERATIONS, AND TO TEMPORARILY RESET ALL SUCH SIGNS DURING CONSTRUCTION OPERATIONS ACCORDING TO ARTICLE 107.25 OF THE "STANDARD SPECIFICATIONS".

- ALL UNUSED SIGNS SHALL BE RETURNED TO THE ANTIOCH TOWNSHIP HIGHWAY DEPARTMENT, 933 BARTLETT AVENUE, ANTIOCH, IL 60002.
- LONGER POSTS MAY BE REQUIRED AT SOME TEMPORARY OR PERMANENT SIGN LOCATIONS TO MAINTAIN PROPER SIGN ELEVATIONS.

6. UTILITIES

- a. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CONTACT "JULIE" AT 1-800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, GAS, WATER, SEWER, CABLE, ETC., UTILITY LINES (MINIMUM 48 HOURS NOTIFICATION IS REQUIRED).

- b. THE CONTRACTOR SHALL BE RESPONSIBLE FOR ANY DAMAGE OR DESTRUCTION OF PUBLIC OR PRIVATE PROPERTY ACCORDING TO THE SPECIAL PROVISIONS AND ARTICLE 107.20 OF THE "STANDARD SPECIFICATIONS". THE CONTRACTOR SHALL RESTORE SUCH PROPERTY AT HIS/HER OWN EXPENSE. THE CONTRACTOR SHALL USE ALL NECESSARY PRECAUTIONS AND PROTECTIVE MEASURES REQUIRED TO MAINTAIN EXISTING UTILITIES, SEWERS, AND APPURTENANCES THAT MUST BE KEPT IN OPERATION. IN PARTICULAR, THE CONTRACTOR WILL TAKE ADEQUATE MEASURES TO PREVENT THE UNDERMINING OF UTILITIES AND SEWERS WHICH ARE STILL IN SERVICE.

7. MAILBOXES

ACCORDING TO ARTICLE 107.20 OF THE "STANDARD SPECIFICATIONS" THE CONTRACTOR SHALL REMOVE ALL MAILBOXES WITHIN THE LIMITS OF CONSTRUCTION WHICH INTERFERE WITH CONSTRUCTION OPERATIONS. THE REMOVED MAILBOXES SHALL BE ERECTED AT TEMPORARY LOCATIONS. AS SOON AS CONSTRUCTION OPERATIONS PERMIT, THE CONTRACTOR SHALL SET THE MAILBOXES AT THEIR PERMANENT LOCATIONS AS DIRECTED BY THE ENGINEER AND APPROVED BY THE POSTMASTER. ACCORDING TO ARTICLE 107.20 OF THE "STANDARD SPECIFICATIONS" THIS WORK BE CONSIDERED AS INCLUDED IN THE UNIT BID PRICES OF THE CONTRACT, AND NO ADDITIONAL COMPENSATION WILL BE ALLOWED.

8. MISCELLANEOUS

- a. GENERALLY 10 FOOT TRANSITIONS SHALL BE USED TO MATCH PROPOSED ITEMS OF WORK TO EXISTING ITEMS IN THE FIELD, UNLESS OTHERWISE SHOWN ON THE PLANS. THE TRANSITIONS SHALL BE PAID FOR AT THE CONTRACT UNIT PRICE FOR THE PROPOSED ITEM OF WORK SPECIFIED.
- b. THE CONTRACTOR SHALL NOT CROSS THE COMPLETED SURFACE COURSE, OR EXISTING PAVEMENT NOT SCHEDULED TO BE REMOVED, WITH CONSTRUCTION EQUIPMENT WHICH MAY DAMAGE THE PAVEMENT.

9. POINTS OF CONTACT

ANTIOCH TOWNSHIP HIGHWAY
DEPARTMENT
MR. MARK RING
HIGHWAY COMMISSIONER
933 BARTLETT AVENUE
ANTIOCH, IL 60002
PH: (847) 395-2070
antiochtownship Hwy@sbcglobal.net

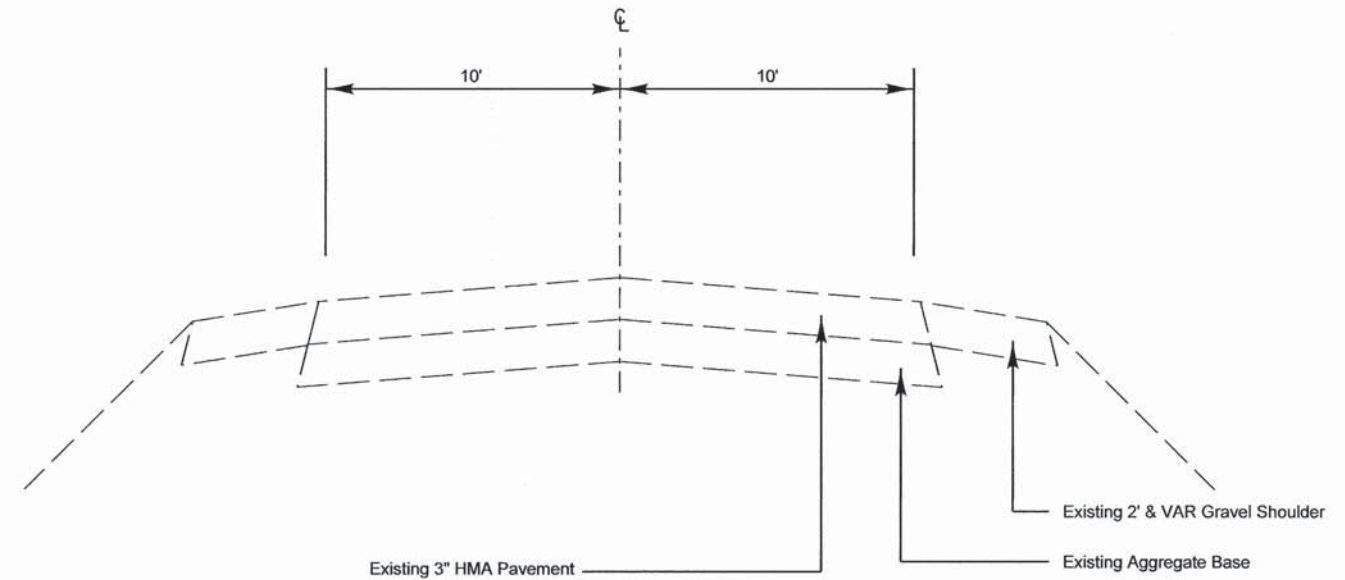
LAKE COUNTY DIVISION OF
TRANSPORTATION
RESIDENT ENGINEER
600 W. WINCHESTER ROAD
LIBERTYVILLE, IL 60048
PH: (847) 377-7400
FAX: (847) 984-5601

SUMMARY OF QUANTITIES

SPECIAL PROVISION	SPECIALTY ITEM	CODE NUMBER	ITEM	UNIT	TOTAL QUANTITY	CONSTRUCTION TYPE CODE 0005
*		40600275	BITUMINOUS MATERIALS (PRIME COAT)	POUND	11563	11563
*		40603080	HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	TON	1909	1909
*		40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	1348	1348
		67100100	MOBILIZATION	L SUM	1	1
		70300100	SHORT TERM PAVEMENT MARKING	FOOT	1192	1192
		70300220	TEMPORARY PAVEMENT MARKING - LINE 4"	FOOT	6587	6587
		70300520	PAVEMENT MARKING TAPE, TYPE III 4"	FOOT	1192	1192
		70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	397	397
	^	78001110	PAINT PAVEMENT MARKING - LINE 4"	FOOT	6587	6587
*		X0326861	PULVERIZATION	SQ YD	14238	14238
*		X7010216	TRAFFIC CONTROL AND PROTECTION, (SPECIAL)	L SUM	1	1

* DENOTES SPECIAL PROVISION

^ DENOTES SPECIALTY ITEM



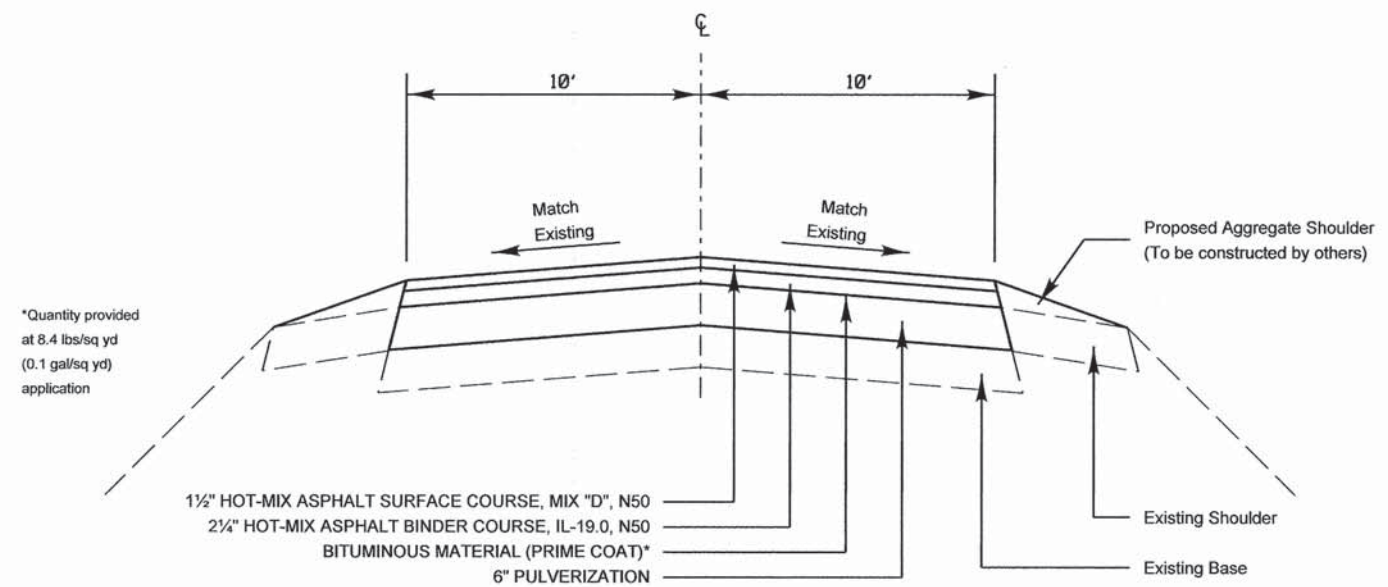
EXISTING TYPICAL SECTION
 STA 0+40.00 TO STA 20+38.20, KATHRYN DRIVE & PETITE PASS

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

ITEM	AIR VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	4% @ 50 GYRATIONS
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	4% @ 50 GYRATIONS

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/INCH.

THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY THE DISTRICT ONE SPECIAL PROVISION "RECLAIMED ASPHALT PAVEMENT AND SHINGLES". FOR "PERCENT OF RAP" SEE "RECLAIMED ASPHALT PAVEMENT AND SHINGLES".



PROPOSED TYPICAL SECTION
 STA 0+40.00 TO STA 20+38.20, KATHRYN DRIVE & PETITE PASS

*Quantity provided at 8.4 lbs/sq yd (0.1 gal/sq yd) application



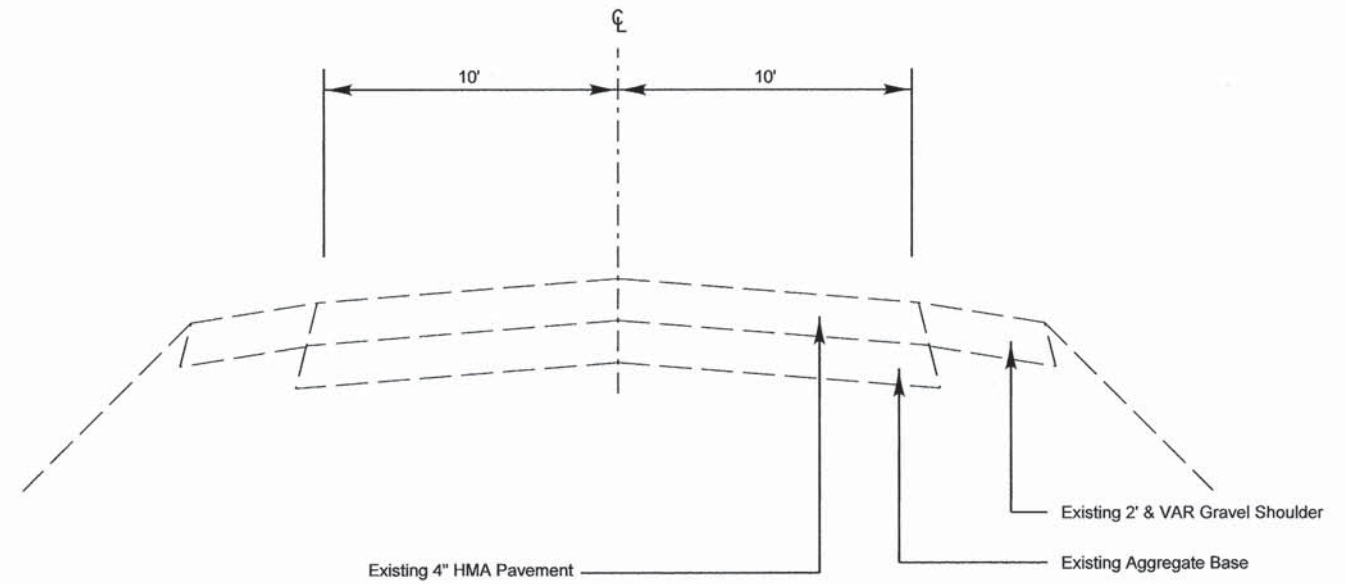
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**STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION**

**ANTIOCH TOWNSHIP RESURFACING 2015
 TYPICAL SECTIONS**

SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
145	13-01100-00-R5	LAKE	14	5
CONTRACT NO. 61B54				
ILLINOIS FED. AID PROJECT M-40032751				



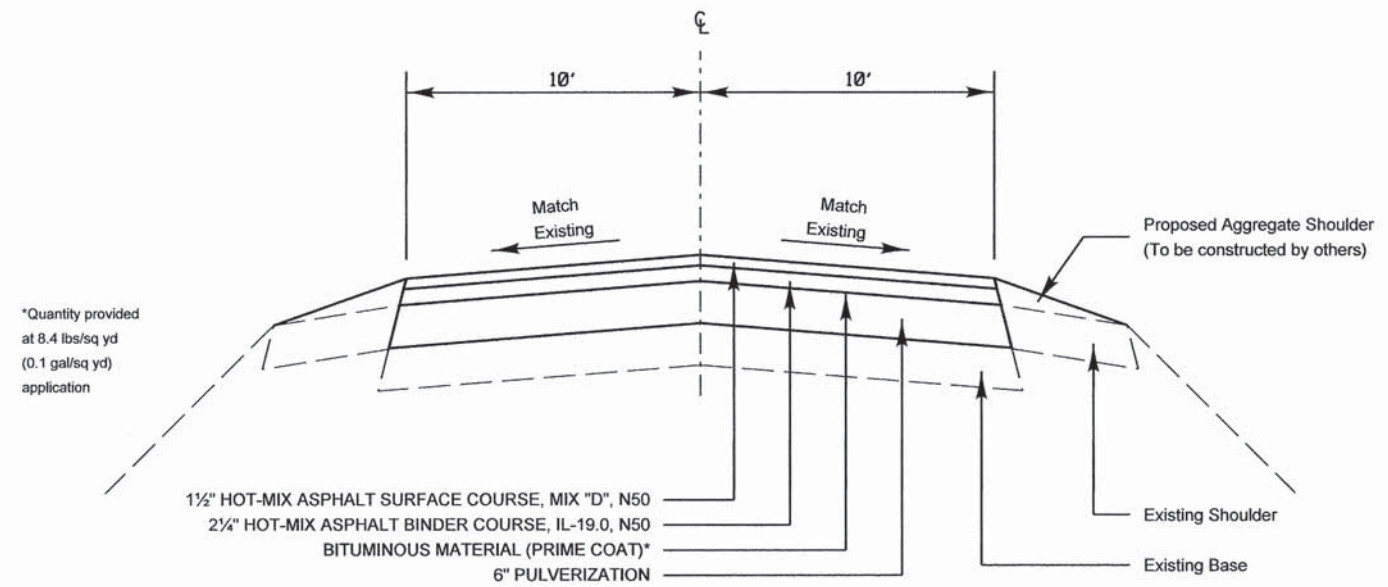
EXISTING TYPICAL SECTION
 STA 33+93.09 TO STA 69+78.87, RENA AVENUE

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

ITEM	AIR VOIDS
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	4% @ 50 GYRATIONS
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N50	4% @ 50 GYRATIONS

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES IS 112 LBS/SQ YD/INCH.

THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY THE DISTRICT ONE SPECIAL PROVISION "RECLAIMED ASPHALT PAVEMENT AND SHINGLES". FOR "PERCENT OF RAP" SEE "RECLAIMED ASPHALT PAVEMENT AND SHINGLES".



PROPOSED TYPICAL SECTION
 STA 33+93.09 TO STA 69+78.87, RENA AVENUE

SCHEDULE OF QUANTITIES

Section 13-01100-00-RS					
ROAD LENGTH (feet)	ROAD WIDTH (feet)	ROAD AREA (sq ft)	ROAD AREA (sq yd)	PULVERIZING AREA (sq yd)	PAVING AREA (sq yd)
Kathryn Dr - Grass Lake Rd to Petite Pass					
1310.0	20.0	26200.0	2911.0	2911.0	2911.0
Side Road Intersections					
Janet Ct (N)			130.0	130.0	130.0
Janet Ct (S)			130.0	130.0	130.0
Channel View Dr			177.0	177.0	177.0
Mailbox Turnouts					
	Quantity (each)	Average Area (sq yd)	ROAD AREA (sq yd)	PULVERIZING AREA (sq yd)	PAVING AREA (sq yd)
Mailbox Turnouts	6	16.0	96.0	96.0	96.0
Subtotal Kathryn Dr Area			3444.0	3444.0	3444.0
Petite Pass - Kathryn Drive to Highland Ave					
685.0	20.0	13700.0	1522.0	1522.0	1522.0
Side Road Intersections					
Highland Ave			82.0	82.0	82.0
Mailbox Turnouts					
	Quantity (each)	Average Area (sq yd)	ROAD AREA (sq yd)	PULVERIZING AREA (sq yd)	PAVING AREA (sq yd)
Mailbox Turnouts	5	16.0	80.0	80.0	80.0
Subtotal Petite Pass Area			1684.0	1684.0	1684.0
Rena Ave - Highland Ave to Grass Lake Rd					
3655.0	20.0	73100.0	8122.0	8122.0	8122.0
Side Road Intersections					
Hawthorne Ave			32.0	32.0	32.0
Hilldale Ave			35.0	35.0	35.0
Greenview Ave			38.0	38.0	38.0
Highwoods Dr			38.0	38.0	38.0
Golfview			43.0	43.0	43.0
Clinton			36.0	36.0	36.0
Old Grass Lake Road (W)			56.0	56.0	56.0
Old Grass Lake Road (E)			62.0	62.0	62.0
Mailbox Turnouts					
	Quantity (each)	Average Area (sq yd)	ROAD AREA (sq yd)	PULVERIZING AREA (sq yd)	PAVING AREA (sq yd)
Mailbox Turnouts	11	16.0	176.0	176.0	176.0
Subtotal Rena Ave Area			8638.0	8638.0	8638.0
Total Area			13766.0	13766.0	13766.0

Notes: HMA Driveways will be paved 8' back from the edge of pavement
Township will provide any additional aggregate needed

SCHEDULE OF QUANTITIES (CONT)

Pavement Items			
PAVING AREA (sq yd)	LIFT THICKNESS (inch)	WEIGHT (pounds/ inch thickness/ sq yd)	TOTAL HMA (ton)
Hot-Mix Asphalt Binder Course, IL-19.0, N50 (2 1/4" Lift)			
13766.0	2.25	112.0	1735.0
Contingency Quantity (10%)			174.0
Total Binder Course			1909.0
Hot-Mix Asphalt Surface Course, Mix "D", N50 (1 1/2" Lift)			
13766.0	1.50	112.0	1156.0
Hot-Mix Asphalt Surface Course, Mix "D", N50 (2 1/2" Lift) - Drives			
520.0	2.50	112.0	73.0
Contingency Quantity (10%)			119.0
Total Surface Course			1348.0

Driveways		
Quantity (each)	Avg Area (sq yd)	Total Area (sq yd)
26	20.0	520.0

Contingency Items	
Item	Quantity
Bituminous Materials (Prime Coat) - 0.84 lbs / sq yd	13766.0 x 0.84 lbs/sq yd = 11563.0
Aggregate (Prime Coat) - 1 ton/1000 sq yd*	13766.0 x 1 ton/1000 sq yd = 14.0

*Included in the unit price of Bituminous Materials (Prime Coat)

Pulverization (Sq Yd)		
Road Pulverizing Area	Driveway Area	Total Pulverizing Area
13718.0	520.0	14238.0

SCHEDULE OF PAVEMENT MARKINGS

FROM STATION	TO STATION	LEFT OR RIGHT	LENGTH	DESCRIPTION	DOUBLE BROKEN YELLOW at 4 ft DASH & 36 ft SPACE 4" (ft)	4" YELLOW (ft)
33+93.09	36+57.62	CL	264.5	DBL, 4" Y 12" C-C	56.0	529.1
36+93.62	39+65.79	CL	272.2	DBL, 4" Y 12" C-C	112.0	544.3
40+05.79	42+74.37	CL	268.6	DBL, 4" Y 12" C-C	112.0	537.2
43+14.37	46+55.29	CL	340.9	DBL, 4" Y 12" C-C	144.0	681.8
46+95.29	59+74.78	CL	1279.5	DBL, 4" Y 12" C-C	512.0	2559.0
60+07.78	64+71.75	CL	464.0	DBL, 4" Y 12" C-C	96.0	927.9
65+27.75	68+68.54	CL	340.8	DBL, 4" Y 12" C-C	144.0	681.6
69+15.86	69+78.87	CL	63.0	DBL, 4" Y 12" C-C	16.0	126.0
70300100 SHORT TERM PAVEMENT MARKING (1 APPLICATION - BINDER COURSE)					1192.0	
70300520 PAVEMENT MARKING TAPE, TYPE III 4" (1 APPLICATION - SURFACE COURSE)					1192.0	
70301000 WORK ZONE PAVEMENT MARKING REMOVAL (SQ FT) (REMOVAL OF PAVEMENT MARKING TAPE, TYPE III 4" FROM SURFACE COURSE)					397.3	
70300220 TEMPORARY PAVEMENT MARKING - LINE 4"						6586.9
78001100 PAINT PAVEMENT MARKING - LINE 4"						6586.9

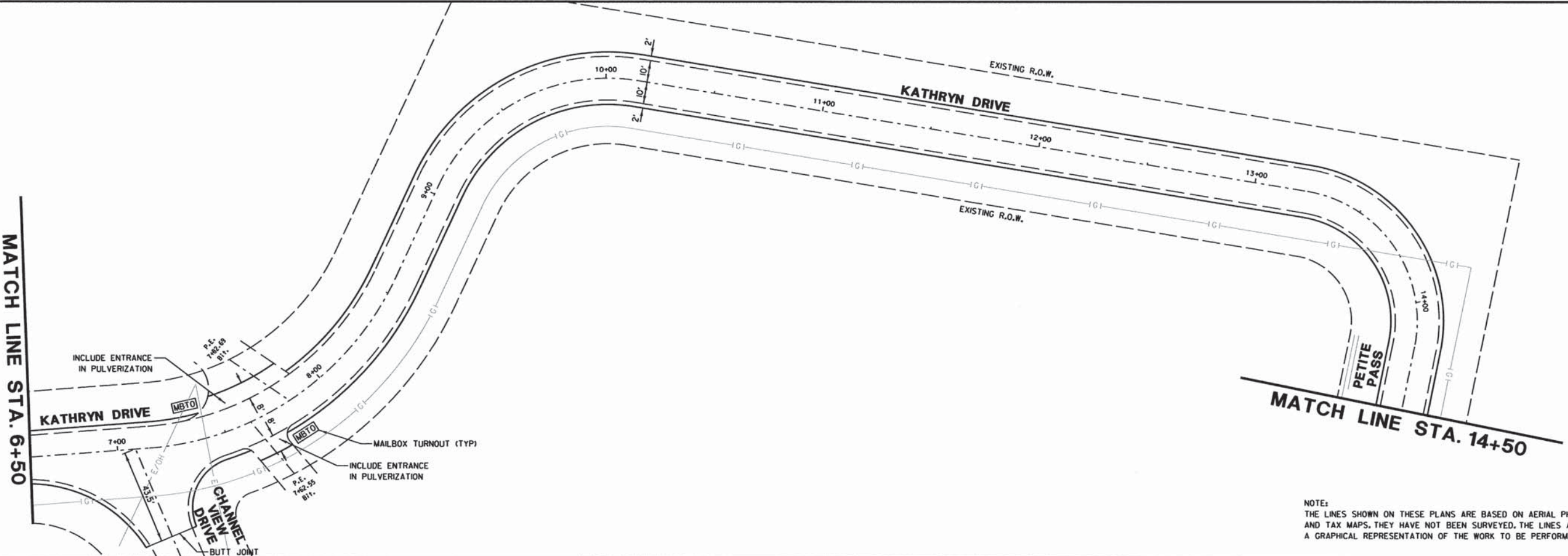
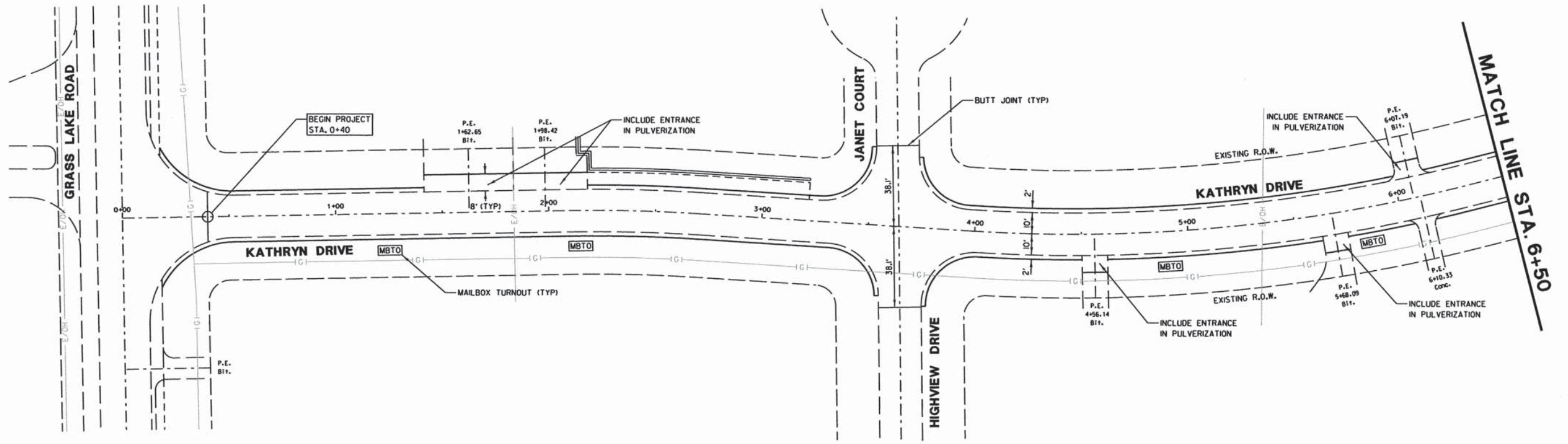


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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANTIOCH TOWNSHIP RESURFACING 2015
QUANTITY SCHEDULES
SCALE: SHEET 1 OF 2 SHEETS STA. TO STA.

F.A. RTE. 145	SECTION 13-01100-00-RS	COUNTY LAKE	TOTAL SHEETS 14	SHEET NO. 7
CONTRACT NO. 61B54				FED. AID PROJECT M-4003(275)

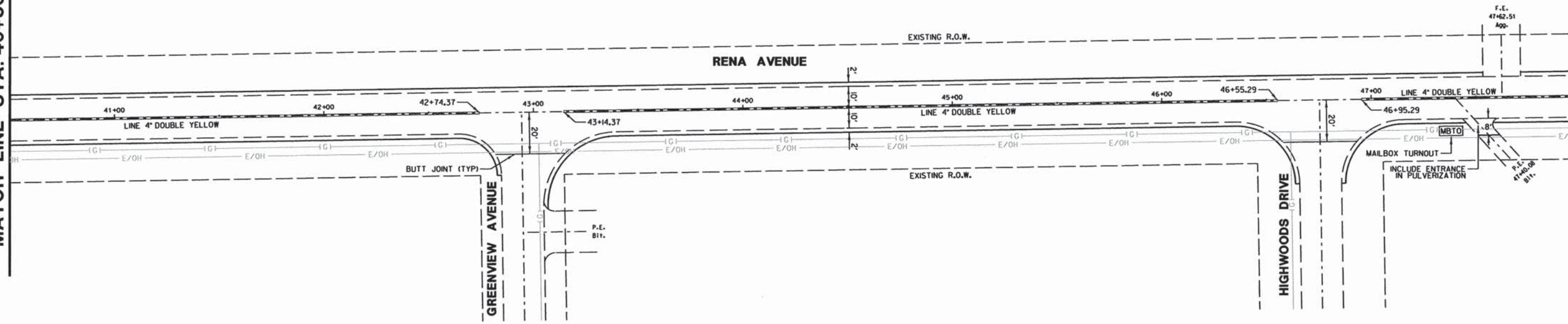


NOTE:
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	USER NAME =	DESIGNED - ER	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	ANTIOCH TOWNSHIP RESURFACING 2015 PLAN SHEET KATHRYN DRIVE & PETITE PASS		F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
	PLOT SCALE = N/A	DRAWN - ER	REVISED -		145	13-01100-00-RS	LAKE	14	8		
	PLOT DATE = 2/27/2015	CHECKED - RMc	REVISED -		SCALE: 1"=50'		SHEET 1 OF 4 SHEETS	STA. 0+40 TO STA. 14+50	ILLINOIS		FED. AID PROJECT M-40032751
	DATE - 2/27/2015	REVISOR -	REVISED -					CONTRACT NO. 61B54			

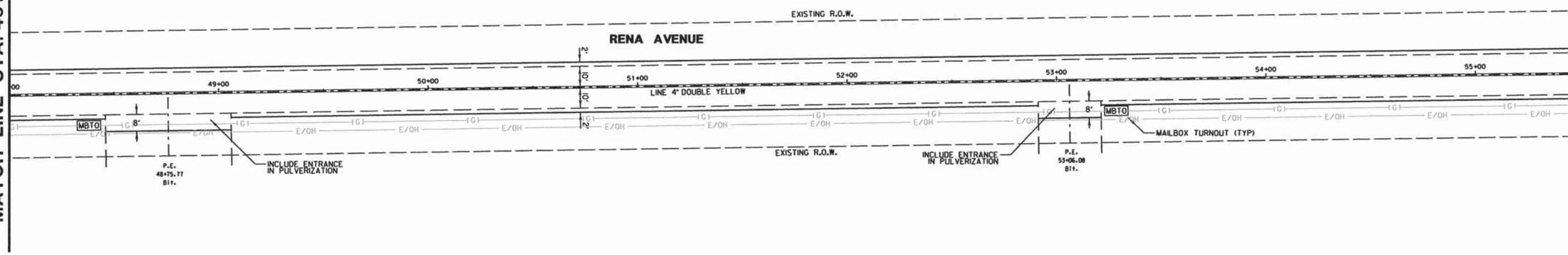
MATCH LINE STA. 40+50

MATCH LINE STA. 48+00



MATCH LINE STA. 48+00

MATCH LINE STA. 55+50



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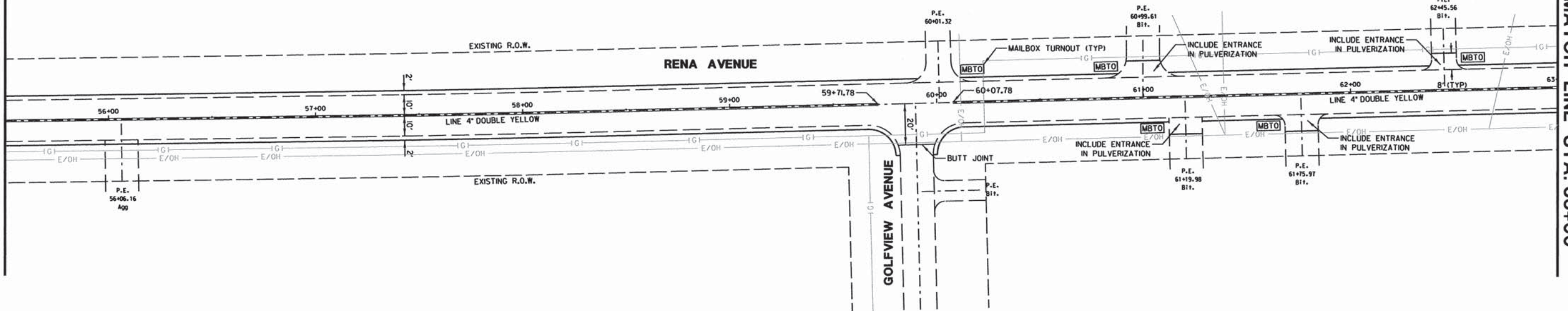
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANTIOCH TOWNSHIP RESURFACING 2015	
PLAN SHEET RENA AVENUE	
SCALE: 1"=50'	SHEET 3 OF 4 SHEETS STA. 40+50 TO STA. 55+50

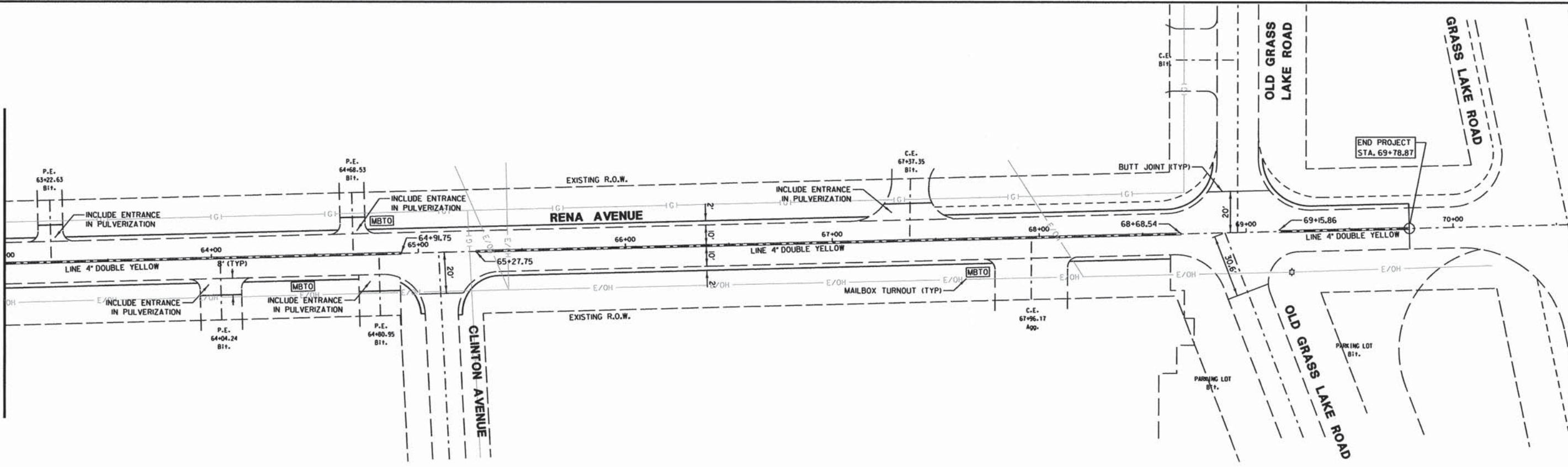
F.A. RTE. 145	SECTION 13-0100-00-RS	COUNTY LAKE	TOTAL SHEETS 14	SHEET NO. 10
CONTRACT NO. 61B54			ILLINOIS FED. AID PROJECT M-40032751	

MATCH LINE STA. 55+50

MATCH LINE STA. 63+00



MATCH LINE STA. 63+00



NOTE:
THE LINES SHOWN ON THESE PLANS ARE BASED ON AERIAL PHOTOGRAPHY AND TAX MAPS. THEY HAVE NOT BEEN SURVEYED. THE LINES ARE ONLY A GRAPHICAL REPRESENTATION OF THE WORK TO BE PERFORMED.



USER NAME =	DESIGNED - ER	REVISED -
PLOT SCALE = N/A	DRAWN - ER	REVISED -
PLOT DATE = 2/27/2015	CHECKED - RMc	REVISED -
	DATE - 2/27/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

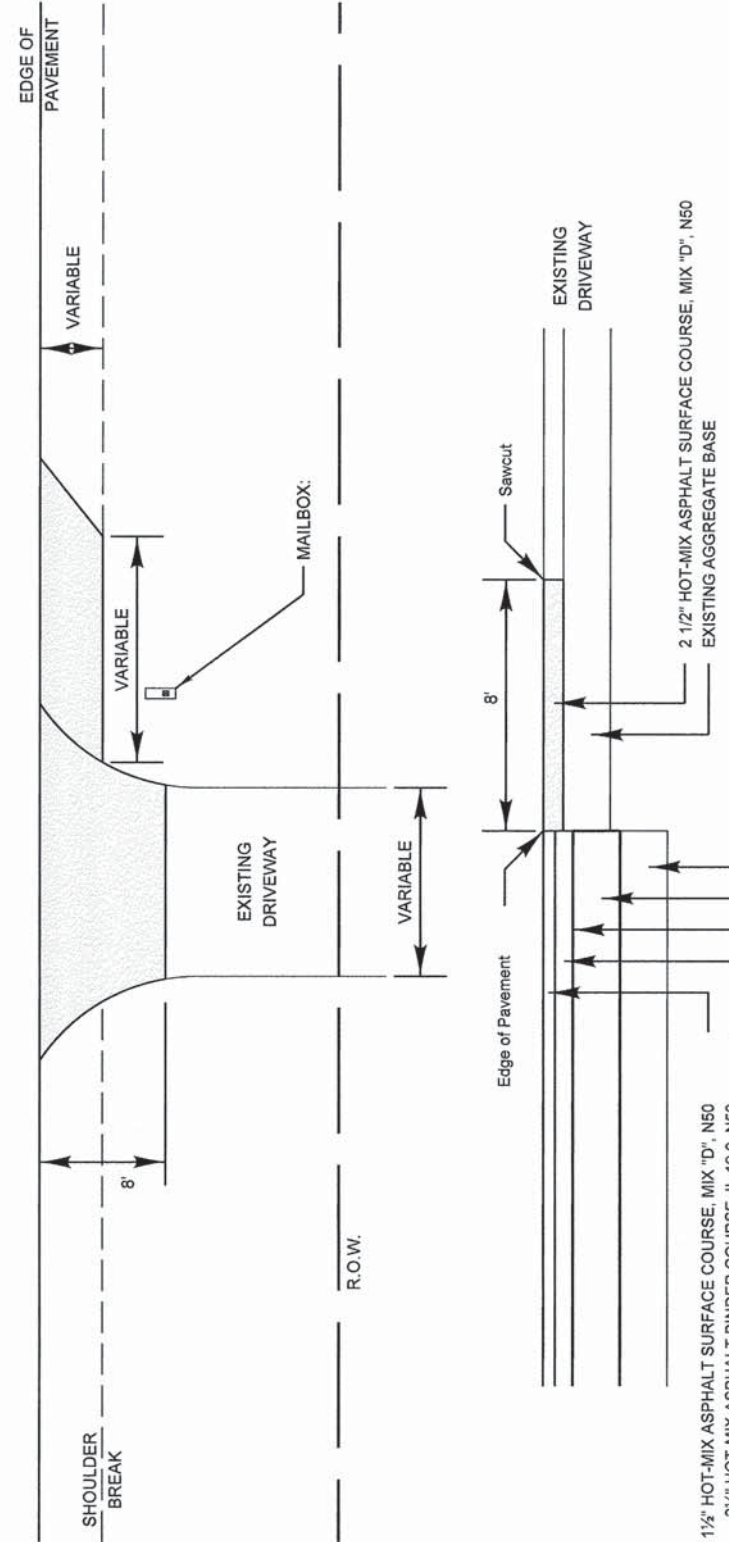
ANTIOCH TOWNSHIP RESURFACING 2015
PLAN SHEET RENA AVENUE

SCALE: 1"=50' SHEET 4 OF 4 SHEETS STA. 55+50 TO STA. 69+78.87

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
145	13-0100-00-RS	LAKE	14	11
CONTRACT NO. 61B54				
ILLINOIS FED. AID PROJECT M-40032751				

Reno Ave, Petite Pass,
& Kathryn Dr

Antioch Road District - 2015
Section 15-01100-00-RS
Lake County



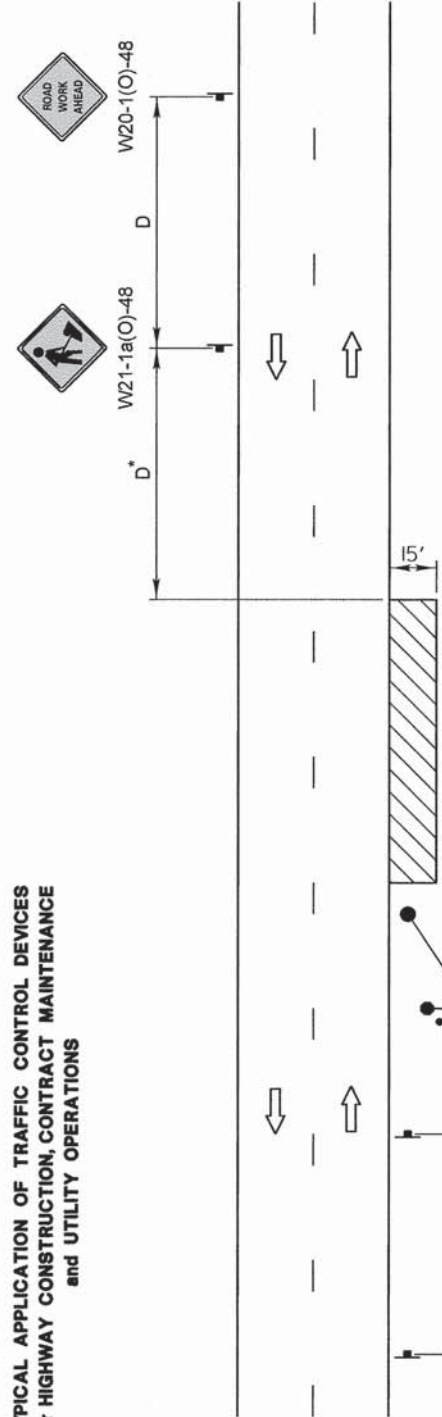
REVISIONS	DATE	APPROVED BY:	DATE:
Update: Mix "D"	2/1/12	M. G. ZEVAITIS	MARCH 1, 2008

LakeCounty
Division of Transportation

**TOWNSHIP PAVEMENT
MAILBOX TURNOUT &
DRIVEWAY DETAILS**

LC4150

**TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
for HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE
and UTILITY OPERATIONS**



ADVANCE WARNING SIGN SPACING TABLE

POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS "D"
40 MPH or less	200 FEET
45-50 MPH	350 FEET
55 MPH	500 FEET

SYMBOLS

- WORK AREA
- SIGN ON PORTABLE OR PERMANENT SUPPORT
- FLAGGER WITH TRAFFIC CONTROL SIGN WHEN REQUIRED

GENERAL NOTES:

This special detail is used at any time, any vehicle, equipment, workers or their activities require a stationary, intermittent or continuous moving operation within 15 feet of the traffic lane, where the average speed is 1 mph or less.

* Minimum distance "D" is shown in the Advance Warning Sign Spacing Table. If the work is a moving operation, the maximum distance "D" may be extended to 1/2 the length required for one normal working day's operation or 4 miles, whichever is less.

If the work operation does not exceed 60 minutes, traffic control may be according to I.D.O.T. Highway Standard 701301.

REVISIONS	DATE	APPROVED BY:	DATE:
Title Block Revision	8/1/09	A. KHAWAJA	APRIL 1, 2007
Reformat LCDDOT Standard	7/19/10		

LakeCounty
Division of Transportation

MODIFIED IDOT STANDARD 701011-02

**TWO LANE, TWO WAY,
OFF-ROAD OPERATIONS
DAY OPERATIONS ONLY**

LC7000

NOT TO SCALE



USER NAME =	DESIGNED - ER	REVISED -
PLOT SCALE = N/A	DRAWN - ER	REVISED -
PLOT DATE = 2/27/2015	CHECKED - RMc	REVISED -
	DATE - 2/27/2015	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

ANTIOCH TOWNSHIP RESURFACING 2015	
LCDOT STANDARDS	
SCALE:	SHEET 1 OF 2 SHEETS STA. TO STA.

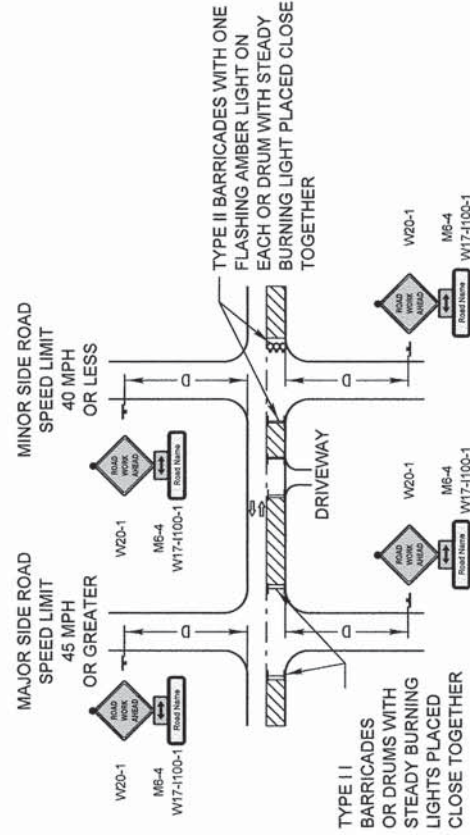
F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
145	13-01100-00-RS	LAKE	14	12
CONTRACT NO. 61854				
ILLINOIS FED. AID PROJECT M-40032751				

USER NAME =	DESIGNED - ER	REVISED -
PLOT SCALE = N/A	DRAWN - ER	REVISED -
PLOT DATE = 2/27/2015	CHECKED - RMC	REVISED -
	DATE - 2/27/2015	REVISED -

ANTIOCH TOWNSHIP RESURFACING 2015 LCDOT STANDARDS			
SCALE:	SHEET 1	OF 2 SHEETS	STA. TO STA.

F.A. RTE. 145	SECTION 13-0100-00-RS	COUNTY LAKE	TOTAL SHEETS 14	SHEET NO. 13
CONTRACT NO. 61B54				ILLINOIS
FED. AID PROJECT M-4003(275)				

**TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
for HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE
and UTILITY OPERATIONS**



SYMBOLS

	WORK AREA
	SIGN ON PORTABLE OR PERMANENT SUPPORT
	TYPE II BARRICADE W/TYPE A FLASHING LIGHT
	DRUM WITH STEADY BURNING LIGHT

ADVANCE WARNING SIGN SPACING TABLE	
POSTED SPEED LIMIT	DISTANCE BETWEEN SIGNS "D"
40 MPH or less	200 FEET
45-50 MPH	350 FEET
55 MPH	500 FEET

GENERAL NOTE:

THIS STANDARD IS USED WHERE AT ANYTIME, DAY OR NIGHT, ANY VEHICLE, EQUIPMENT, WORKERS OR THEIR ACTIVITIES ENCOACH ON THE PAVEMENT OR WHERE CONSTRUCTION REQUIRES LANE CLOSURES.

DESIGN NOTES:

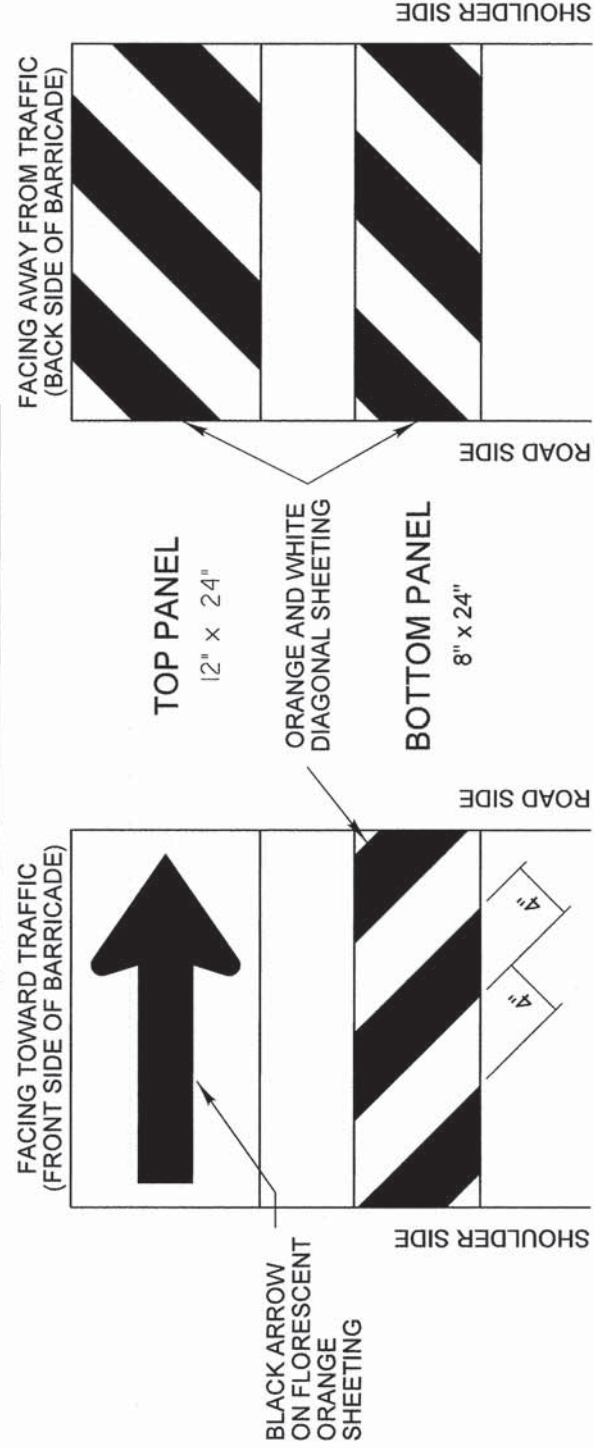
- FOR A SIDE ROAD WITH A SPEED LIMIT OF 40 MPH OR LESS, THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE II OR TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION OF THE ROADWAY.
- FOR A SIDE ROAD WITH A SPEED LIMIT OF 45 MPH OR GREATER, THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION OF THE ROADWAY.
- ALL W20-1 "ROADWORK-AHEAD" SIGNS SHALL BE 48" X 48" WITH FLUORESCENT ORANGE REFLECTIVE SHEETING WITH AN AMBER TYPE A FLASHING LIGHT MOUNTED ON THE SIGN.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A M6-1 SINGLE HEADED ARROW SHALL BE USED IN LIEU OF THE M6-4 DOUBLE HEADED ARROW.
- FOR A LANE CLOSURE ON A SIDE ROAD OR DRIVEWAY, USE THE APPLICABLE PORTIONS OF THE APPROPRIATE HIGHWAY STANDARD OR TRAFFIC CONTROL DETAIL. THE SPACING OF THE 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.
- ADVANCE WARNING SIGNS SHALL BE OMITTED ON DRIVEWAYS UNLESS OTHERWISE NOTED.
- THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS AND INTERSECTIONS SHALL BE INCLUDED IN THE CONTRACT UNIT LUMP SUM PRICE FOR "TRAFFIC CONTROL AND PROTECTION."

**MODIFIED IDOT DISTRICT ONE
SIDE ROAD DETAIL**

REVISIONS	DATE	LakeCounty Division of Transportation	APPROVED BY: ANTHONY KHARAJA DATE: APRIL 1, 2007
Two Block Revision	8/1/09		
Reformat LCDOT Standard	7/15/10		
Use of Drums in lieu of Type III Barricade	4/27/14		

NOT TO SCALE

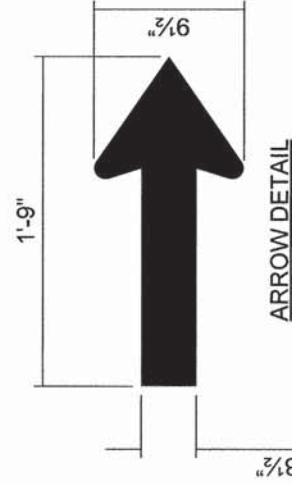
DIRECTION INDICATOR BARRICADES



GENERAL NOTES

- Direction Indicator Barricades shall be constructed from non-metallic Type II barricades meeting the requirements of Article 1106.02 of the Standard Specifications, except where modified by this detail.
- The Direction Indicator Barricades shall be equipped with Type C steady burning lights if used to channelize traffic during the hours of darkness.
- The reflective sheeting for the top panel shall be Type AZ fluorescent orange. The diagonal panels shall have orange and white Type A or better reflective sheeting.

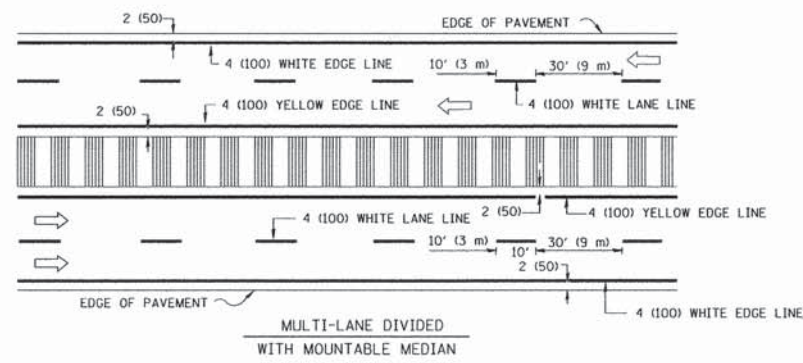
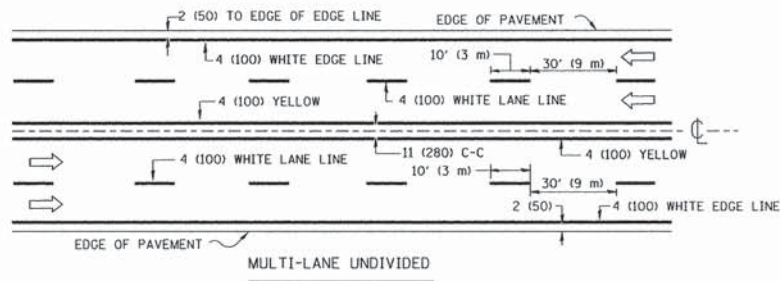
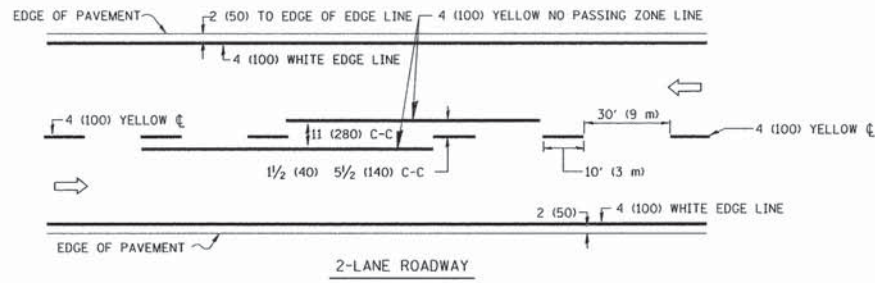
ARROW DETAIL



REVISIONS	DATE	LakeCounty Division of Transportation	APPROVED BY: ANTHONY KHARAJA DATE: APRIL 1, 2007
Text Update	7/15/11		

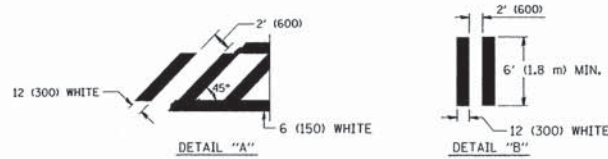
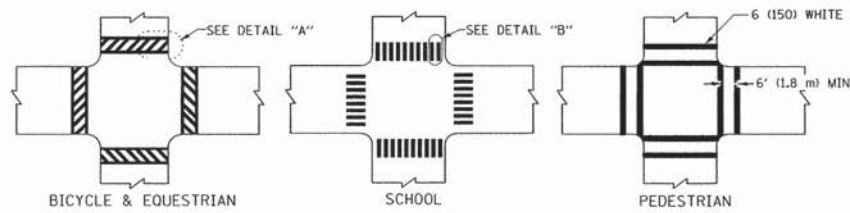
TYPICAL APPLICATION OF TRAFFIC CONTROL DEVICES
HIGHWAY CONSTRUCTION, CONTRACT MAINTENANCE
DIRECTION INDICATOR BARRICADES

LC7200

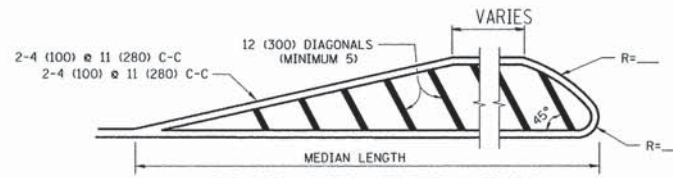
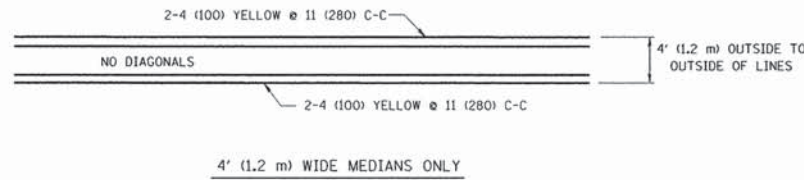


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

TYPICAL LANE AND EDGE LINE MARKING



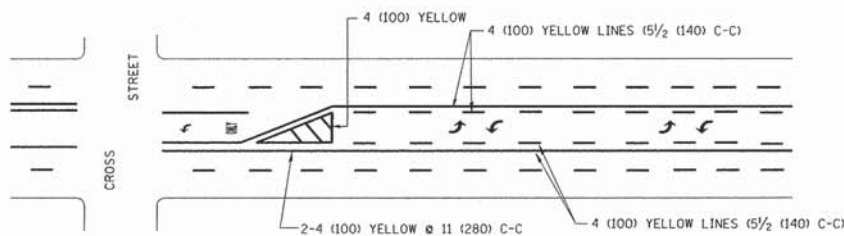
TYPICAL CROSSWALK MARKING



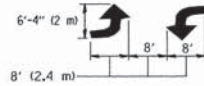
FOR MEDIAN LENGTHS WHERE DIAGONAL SPACING CANNOT BE ATTAINED, USE 5 (FIVE) EQUALLY SPACED DIAGONAL LINES.

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

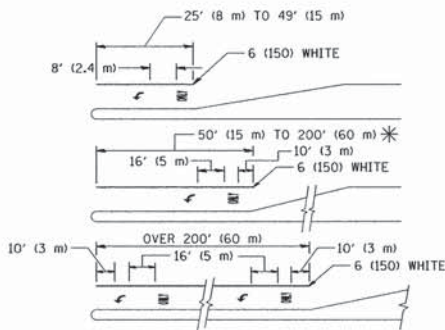


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR. ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



MEDIAN WITH TWO-WAY LEFT TURN LANE

TYPICAL PAINTED MEDIAN MARKING

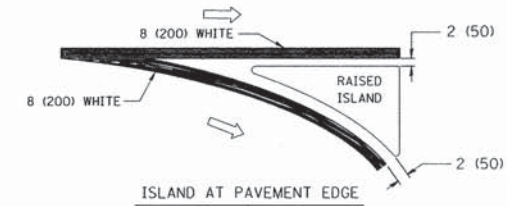
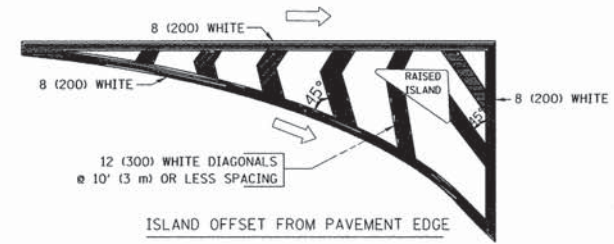


FULL SIZE LETTERS 8' (2.4 m) AND ARROWS SHALL BE USED. AREA = 15.6 SQ. FT. (1.5 m²) ONLY AREA = 20.8 SQ. FT. (1.9 m²)

* 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

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	5/2 (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 MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINES; 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 @ 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 CROSSWALK, 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	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" 15 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 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS	12 (300) @ 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.

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

FILE NAME =	USER NAME = drivakosgn	DESIGNED - EVERS	REVISED -T, RAMMACHER 10-27-94
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	PLOT SCALE = 50,000 ' / IN.	CHECKED -	REVISED -
	PLOT DATE = 9/9/2009	DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
145	13-01100-00-RS	LAKE	14	14
TC-13			CONTRACT NO. 61B54	
FED. ROAD DIST. NO. 1 [ILLINOIS] FED. AID PROJECT M-4003(275)				