STATE OF ILLINOIS

DEPARTMENT OF TRANSPORTATION

DIVISION OF HIGHWAYS

PROPOSED

FOR INDEX OF SHEETS, SEE SHEET NO. 2

IMPROVEMENT LOCATED WITHIN UNINCORPORATED McHENRY COUNTY

TRAFFIC DATA

US ROUTE 14 2006 ADT = 8,500

SPEED LIMIT = 55 MPH

 \circ

 \circ

HIGHWAY PLANS

F.A.P. 305 (US ROUTE 14) **BUNKER HILL ROAD TO PARK LANE DRIVE** SECTION 29RS-4 **RESURFACING (3P) MCHENRY COUNTY**

PROJECT NO. ESP-0305 (041)

C-91-339-08

R 6 E **PROJECT BEGINS BRIDGE OMISSION** McGUI RE STA 17+85 TO 19+65 STREET RE PROJECT ENDS STA. 143 + 58LAMBCKE RD

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 1-800-892-0123 OR 811

DISTRICT ONE -PROJECT MANAGER: LONG TRAN (847) 705-4232 PROJECT ENGINEER: MICHELLE AQUINO (847) 705-4606

STA. 16 + 85

CONTRACT NO. 60E18

HARTLAND TOWNSHIP

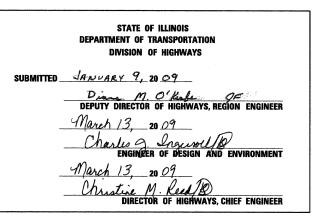
SCALE: NTS

GROSS LENGTH OF PROJECT = 12,515 FT = 2.37 MILES NET LENGTH OF PROJECT = 12.335 FT = 2.34 MILES

MCHENRY 17 1 29RS-4 FED. ROAD DIST. NO. 1 ILLINOIS CONTRACT NO. 60E18

D-91-339-08







200 22ND Street, Suite 216, Lombard, IL 60148 630.705.0110 voice, 630.839.2566 fax

MILLENNIA ENGINEERING

PRINTED BY THE AUTHORITY OF THE STATE OF ILLINOIS

INDEX OF SHEETS

- 1 COVER SHEET
- 2 INDEX OF SHEETS, HIGHWAY STANDARDS, GENERAL NOTES, AND COMMITMENTS
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- 4 TYPICAL SECTIONS
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- 10 PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD22)
- 11 CURB OR CURB AND GUTTER REMOVAL AND REPLACE (BD24)
- 12 BUTT JOINTS AND HMA TAPER (BD32)
- TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS AND DRIVEWAYS (TC10)
- 14 RAISED REFLECTIVE PAVEMENT MARKERS, SNOW PLOW RESISTANT (TC11)
- DISTRICT ONE TYPICAL PAVEMENT MARKINGS (TC13)
- 16 ARTERIAL ROAD INFORMATION SIGN (TC22)
- DETECTOR LOOP INSTALLATION DETAILS FOR ROADWAY RESURFACE (TSO7)

HIGHWAY STANDARDS

LIST OF ILLINOIS DOT HIGHWAY STANDARDS

STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS 000001-5

442201-03 CLASS C AND D PATCHES

482011-03 HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND

RESURFACING PROJECTS

701301-03 LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS

701306-**02** LANE CLOSURE, 2L, 2W, SLOW MOVING OPERATIONS DAY ONLY

FOR SPEEDS > OR = 45 MPH

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

LANE CLOSURE, 2L, 2W, WORK AREAS IN SERIES, FOR SPEEDS > OR = 45 MPH

701901-01 TRAFFIC CONTROL DEVICES

COMMITMENTS

NO COMMITMENTS FOR THIS PROJECT

GENERAL NOTES

- 1. BEFORE STARTING ANY EXCAVATION, THE CONTRACTOR SHALL CALL "J.U.L.I.E." AT 800-892-0123 FOR FIELD LOCATIONS OF BURIED ELECTRIC, TELEPHONE, AND GAS FACILITIES. 48 HOUR NOTIFICATION IS REQUIRED.
- 2. THE CONTRACTOR SHALL COORDINATE CONSTRUCTION ACTIVITIES WITH THE UTILITY COMPANIES AND MCHENRY COUNTY.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE DEPARTMENT.
- WHEN ARTIFICIAL LIGHTING IS UTILIZED IN NIGHT OPERATIONS, THE CONTRACTOR SHALL EXERCISE THE UTMOST PRECAUTIONS IN PREVENTING ADVERSE VISIBILITY TO THE MOTORING PUBLIC AND ADJOINING RESIDENTIAL AREAS.
- 5 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.
- 6 ALL DAMAGE TO EXISTING PAVEMENT MARKING OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LINE SHOWN ON THE PLANS SHALL BE REPLACED AT THE CONTRACTORS EXPENSE. NO ADDITIONAL COST TO THE DEPARTMENT.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCES, 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 STRIPING SHALL BE AS DIRECTED BY THE ENGINEER.
- ALL PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- 9 THE CONTRACTOR SHALL BE RESPONSIBLE FOR VERIFYING ALL DIMENSIONS AND CONDITIONS EXISTING IN THE FIELD PRIOR TO CONSTRUCTION AND ORDERING MATERIALS.
- 10 THE CONTRACTOR SHALL CONTACT THE DISTRICT ONE TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- 11 THE ENGINEER SHALL CONTACT DEBBIE HANLON, THE TRAFFIC FIELD TECHNICIAN AT (847) 438-2300 A MINIMUM OF TWO (2) WEEKS PRIOR TO START OF THIS PROJECT SO THAT EXACT STATIONING OF NO PASSING ZONES AND OTHER PERMANENT PAVEMENT MARKINGS MAY BE ESTABLISHED.
- 12 THE CONTRACTOR SHALL BE REQUIRED TO PROVIDE ACCESS TO ABUTTING PROPERTY AT ALL TIMES DURING THE CONSTRUCTION OF THIS PROJECT.
- 13 WHEN CONSTRUCTION OPERATIONS ON TWO-LANE ROADS OPEN TO TRAFFIC RESULT IN THE REMOVAL OR COVERING OF ANY PAVEMENT STRIPING INDICATING PASSING RESTRICTIONS, "NO PASSING ZONES NOT STRIPED NEXT____MILES" SIGNS SHALL BE USED. THE CONTRACTOR SHALL PLACE THE SIGNS AT THE BEGINNING OF THE UNSTRIPED AREA, JUST BEYOND EACH MAJOR INTERSECTION WITHIN THE UNSTRIPED, AND AT SUCH OTHER LOCATIONS AS THE ENGINEER MAY DIRECT TO ENSURE A MINIMUM SPACING OF FIVE MILES.
- 14 DO NOT SCALE PLANS FOR CONSTRUCTION DIMENSIONS.
- 15 DOUBLE LANE MARKERS ARE TO BE USED AS SHOWN ON THE DISTRICT ONE DETAIL "TYPICAL APPLICATIONS - RAISED REFLECTIVE PAVEMENT MARKERS (SNOW-PLOW RESISTANT)" SHOWN ON THE PLANS.
- 16 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).
- 17 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.
- PAVEMENT MARKING TAPE, TYPE III SHALL BE USED FOR SHORT TERM PAVEMENT MARKINGS ON ALL FINAL SURFACES. THE COST OF THE PAVEMENT MARKING TAPE. TYPE III AND IT'S REMOVAL SHALL BE INCLUDED IN THE COST OF SHORT TERM
- 19 THE CONTRACTOR SHALL PLACE PROPOSED PAVEMENT MARKINGS IN ACCORDANCE WITH DISTRICT 1 TYPICAL PAVEMENT MARKINGS DETAIL (TC-13).

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DESIGNED -TVN REVISED DRAWN TVN REVISED CHECKED RPD REVISED DATE 01/14/09 REVISED

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

INDEX OF SHEETS, LIST OF IDOT SECTION U.S. ROUTE 14 BUNKER HILL RD TO PARK LANE DR HIGHWAY STANDARD, GENERAL NOTES, 305 29RS-4 AND COMMITMENTS

SCALE: N/A SHEET NO. OF SHEETS STA.

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

TOTAL SHEE SHEETS NO.

MCHENRY 17 2

CONTRACT NO. 60E18

COUNTY

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		√ 708	0 (100% FED)	
DESIGNED	-	TVN	REVISED -	
DRAWN	-	TVN	REVISED -	
CHECKED	-	RPD	REVISED -	
DATE	-	01/14/09	REVISED -	

Z0076600 TRAINEES

CODE NÓ.

44201771

70100460

70100600

70300220

40600200 BITUMINOUS MATERIALS (PRIME COAT)

40600400 MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS

40600982 HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT

40601005 HOT-MIX ASPHALT REPLACEMENT OVER PATCHES

40603335 HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50

44002215 HOT-MIX ASPHALT REMOVAL OVER PATCHES, 3 3/4"

CLASS D PATCHES, TYPE IV, 10 INCH

AGGREGATE WEDGE SHOULDER, TYPE B

TRAFFIC CONTROL AND PROTECTION, STANDARD 701306

TRAFFIC CONTROL AND PROTECTION, STANDARD 701336

X4067107 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50

TEMPORARY PAVEMENT MARKING - LINE 4"

44201761 CLASS D PATCHES, TYPE I, 10 INCH

44201765 CLASS D PATCHES, TYPE II, 10 INCH

44201769 CLASS D PATCHES, TYPE III, 10 INCH

67000400 ENGINEER'S FIELD OFFICE, TYPE A

70300100 SHORT-TERM PAVEMENT MARKING

70301000 WORK ZONE PAVEMENT MARKING REMOVAL

78100100 RAISED REFLECTIVE PAVEMENT MARKER

88600100 DETECTOR LOOP, TYPE I

20201006 GRADING AND SHAPING SHOULDERS

X0322256 | TEMPORARY INFORMATION SIGNING

78000200 THERMOPLASTIC PAVEMENT MARKING - LINE 4"

78300200 RAISED REFLECTIVE PAVEMENT MARKER REMOVAL

67100100 MOBILIZATION

44001700 | COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT

44000158 HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"

40600300 AGGREGATE (PRIME COAT)

40600895 CONSTRUCTING TEST STRIP

STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 14 **BUNKER HILL RD TO PARK LANE DR**

URBAN

QUANTITY

15.1

75.5

3.77

1

110

379

3169.1

35948

100

1804

115

1031

93

329

1008

9125

90303

15050

45151

293

293

66

253.3

52

1485.60

UNIT

TON

TON

TON

EACH

SQ YD

TON

TON

SQ YD

FOOT

SQ YD

SQ YD

SQ YD

SQ YD

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CAL MO

L SUM

L SUM

LSUM

FOOT

FOOT

SQ FT

FOOT

EACH

EACH

FOOT

UNIT

SQ FT

TON

CONSTRUCTION TYPE CODE

100% FED

15.1

75.5

3.77

1

110

379

3169.1

35948

100

1804

115

1031

93

329

1008

3

9125

90303

15050

45151

293

293

66

253.3

52

1485.60

1000

QUANTITY

SUMMARY OF QUANTITIES

SECTION 29RS-4 MCHENRY 17 3 305 CONTRACT NO. 60E18 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT

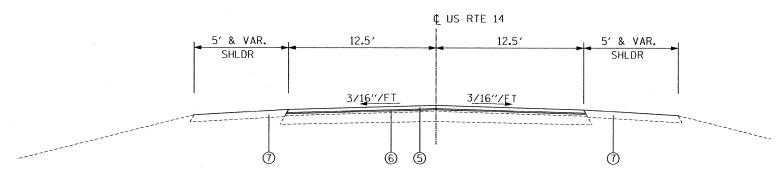
SHEET NO. OF SHEETS STA. TO STA.

* SPECIALTY ITEM

SUMMARY OF QUANTITIES

ITEM DESCRIPTION

US ROUTE 14 STA. 16+85 TO STA. 143+58



PROPOSED TYPICAL SECTION

US ROUTE 14 STA. 16+85 TO STA. 143+58

AC TYPE	VOIDS
PG 64-22	4% @ 50 GYR.
SBS/SBR PG 76-28/-22	4% @ 50 GYR.
PG 64-22 (SEE NOTE 2)	4% @ 70 GYR.
PG 64-22 (SEE NOTE 2)	4% @ 70 GYR.
S	G 64-22 BS/SBR PG 76-28/-22 PG 64-22 (SEE NOTE 2)

LEGEND

(1) EXISTING +/-3.75" HMA SURFACE ② EXISTING +/-10' P.C.C. BASE

4 HMA SURFACE REMOVAL - 2 1/4"

③ EXISTING AGGREGATE SHOULDER +/- 6"

GRADING AND SHAPING SHOULDERS & AGGREGATE WEDGE SHOULDER, TYPE B

(5) HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5MM) -1 1/2"

6 POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 -3/4"

MIXTURE NOTES:

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

2. WHEN RAP EXCEEDS 20%, THE NEW ASPHALT BINDER IN THE MIX SHALL BE PG 58-22.

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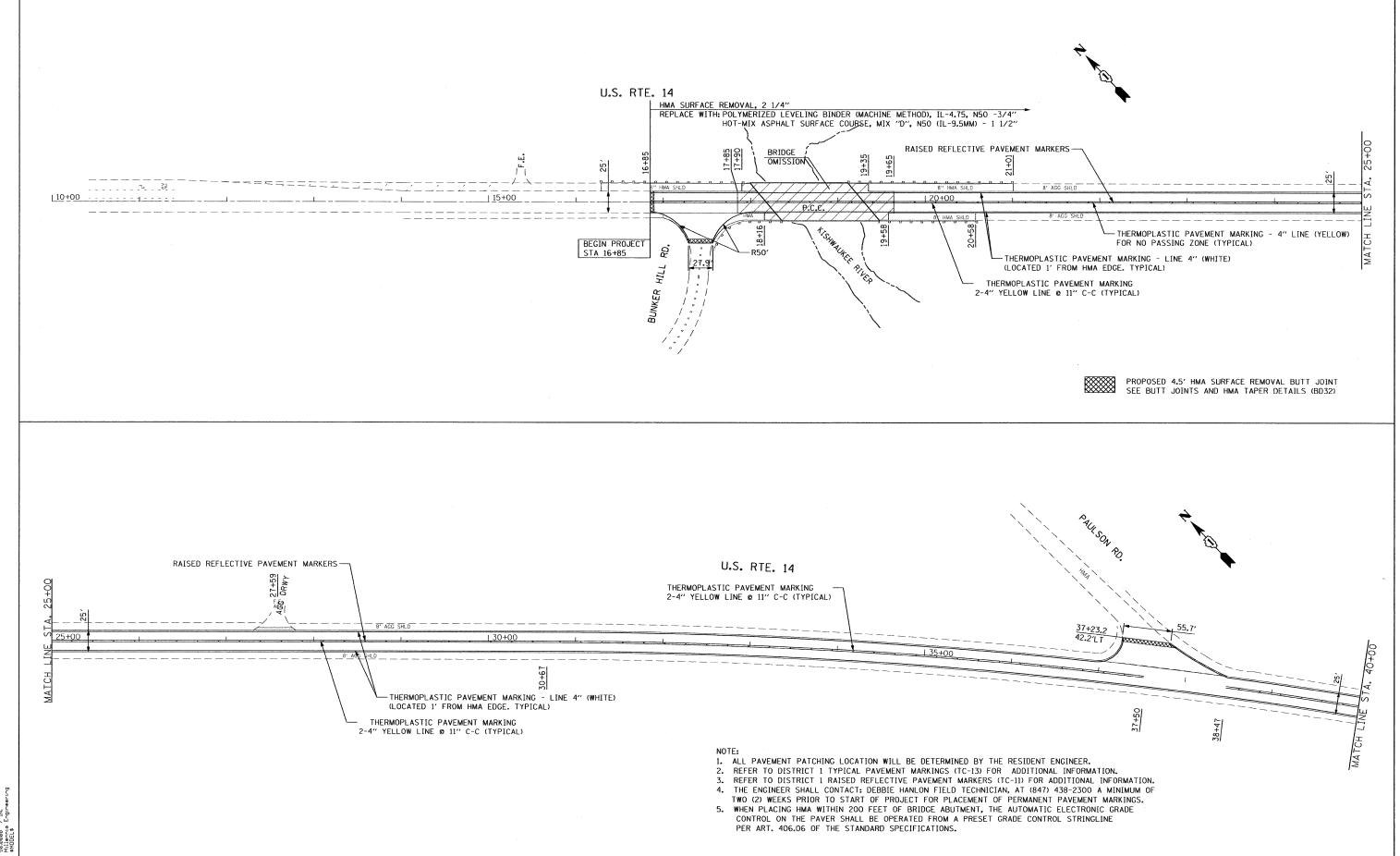
STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 14 BUNKER HILL RD TO PARK LANE DR SHEET NO. OF SHEETS STA.

COUNTY TOTAL SHEETS NO.

MCHENRY 17 4 SECTION TYPICAL SECTIONS 305 29RS-4 CONTRACT NO. 60E18 TO STA.

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

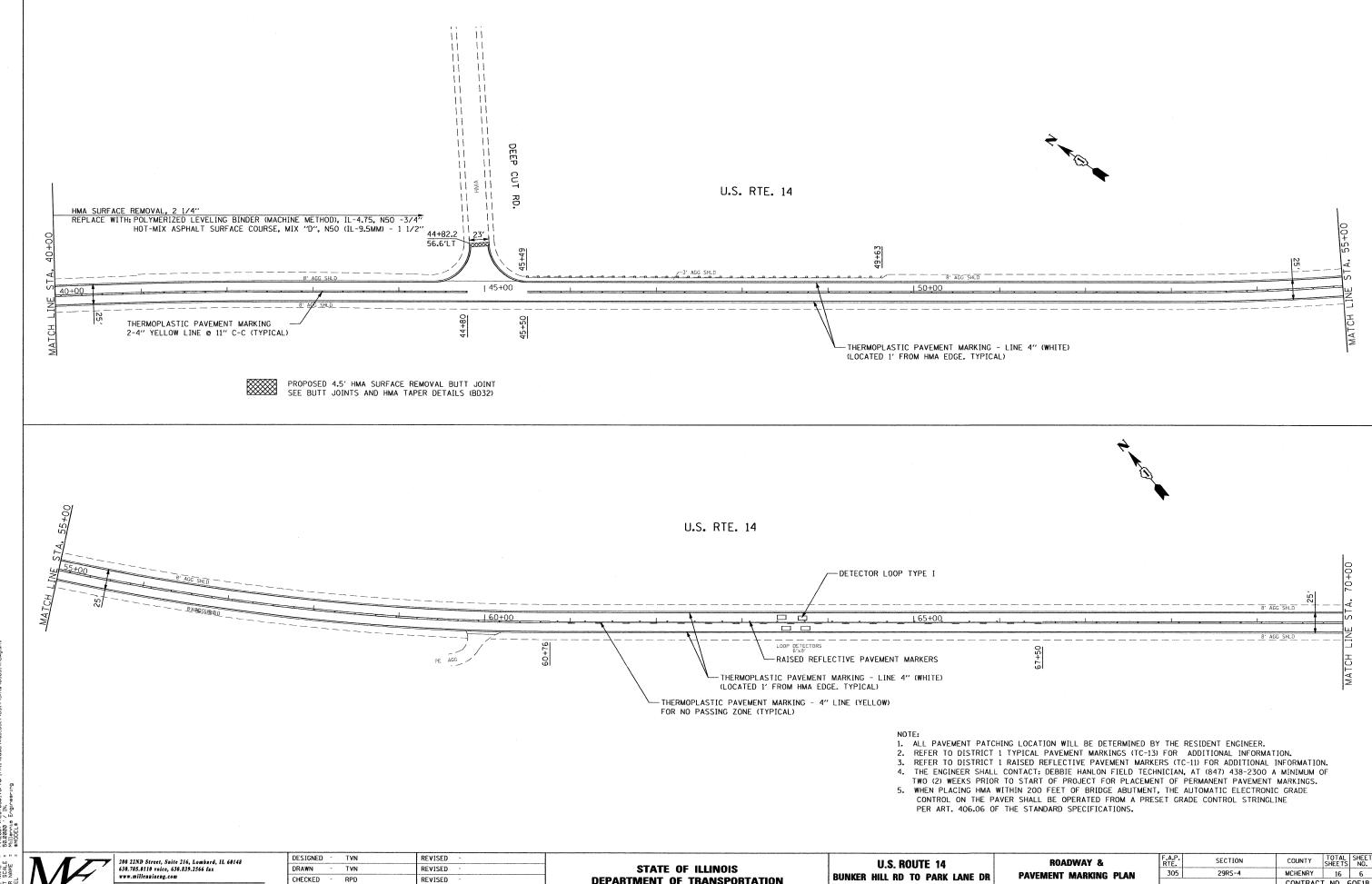


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STATE OF ILLINOIS **DEPARTMENT OF TRANSPORTATION**

U.S. ROUTE 14 BUNKER HILL RD TO PARK LANE DR SHEET NO. OF SHEETS STA. 10+00 TO STA. 40+00

ROADWAY & PAVEMENT MARKING PLAN SECTION COUNTY TOTAL SHEE MCHENRY CONTRACT NO. 60E18



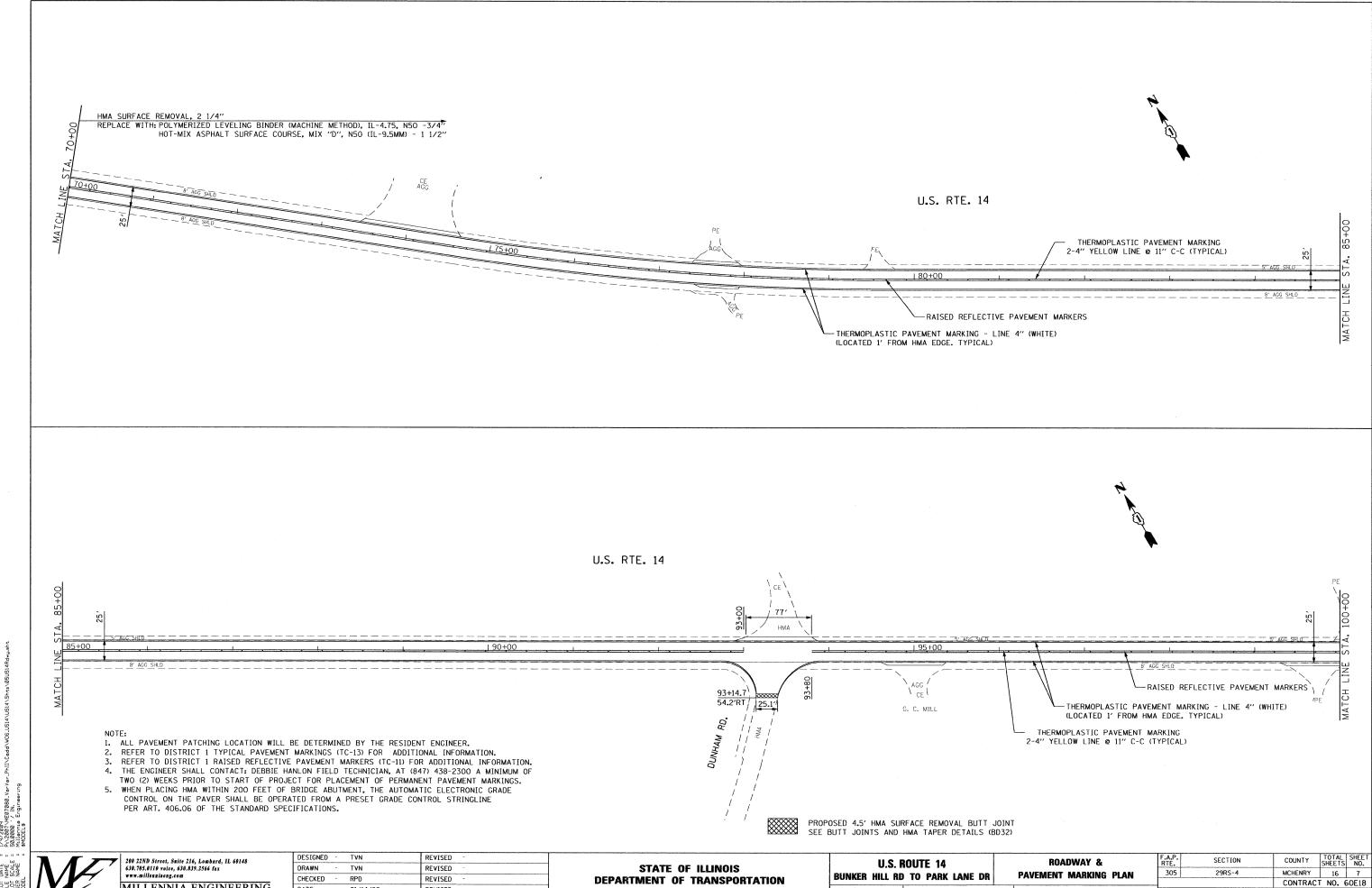
MILLENNIA ENGINEERING

CHECKED RPD REVISED 01/14/09 REVISED

DEPARTMENT OF TRANSPORTATION

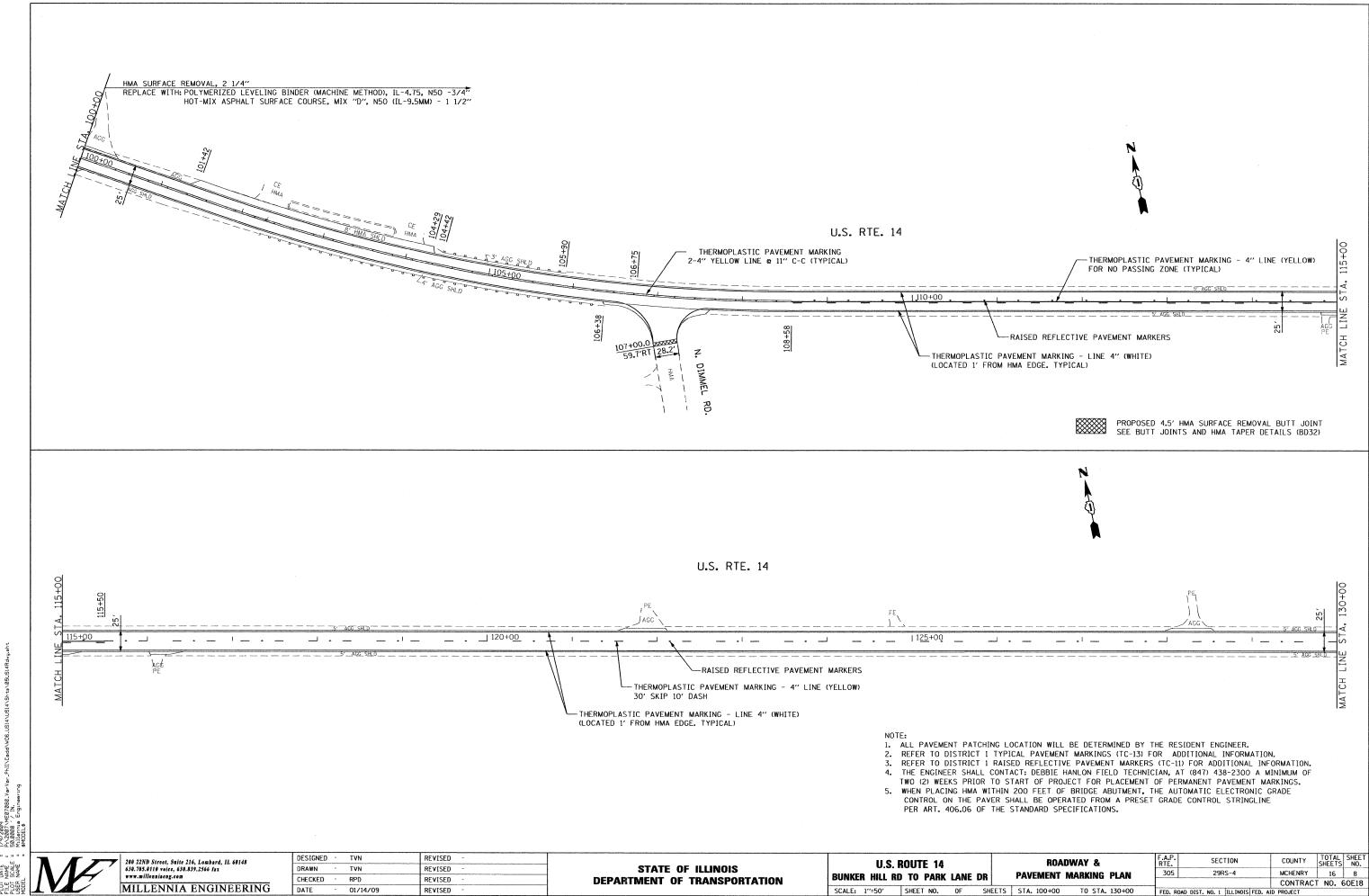
SCALE: 1"-50" SHEET NO. OF SHEETS STA. 40+00 TO STA. 70+00

CONTRACT NO. 60E18

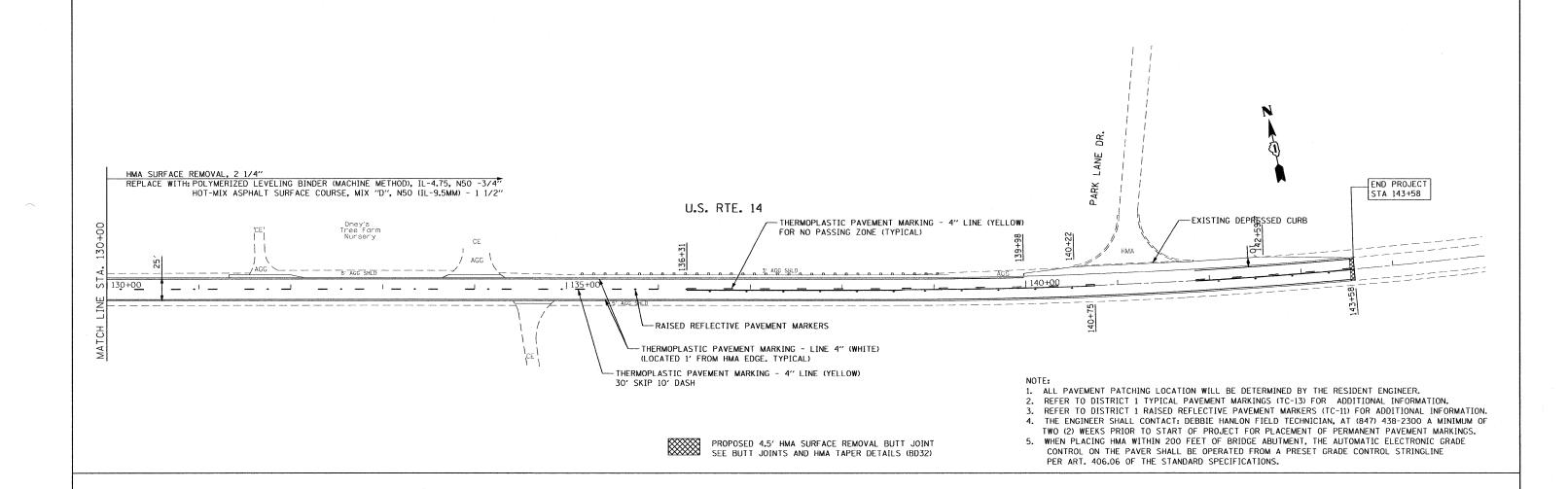


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01/14/09 REVISED SCALE: 1"=50" SHEET NO. OF SHEETS STA. 70+00 TO STA. 100+00



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



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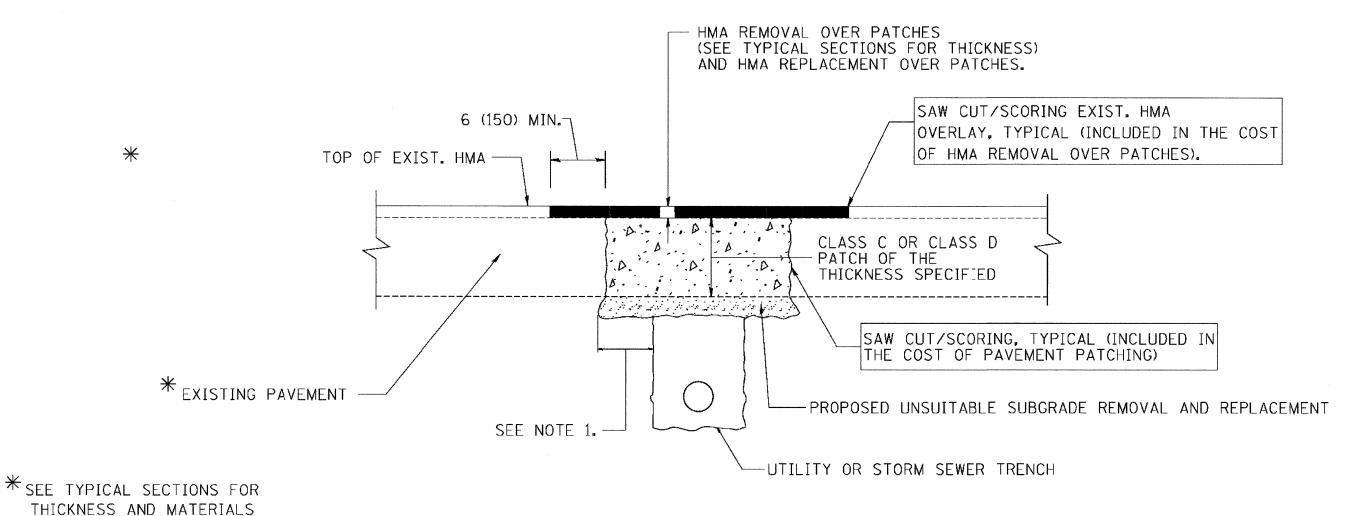
STATE OF ILLINOIS

U.S. ROUTE 14 BUNKER HILL RD TO PARK LANE DR SCALE: 1"=50" SHEET NO. OF SHEETS STA. 130+00 TO STA. 150+00

ROADWAY & PAVEMENT MARKING PLAN

TOTAL SHEET SHEETS NO. SECTION COUNTY 305 29RS-4 MCHENRY 16 CONTRACT NO. 60E18

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT P:\2007\ME07080_VorVor_Phil\Codd\W06_USI4\USI4\Shts\05USI4Rd



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

- 1. REMOVE THE EXISTING HMA MATERIAL OVER THE AREA TO BE PATCHED.
- 2. REMOVE AND REPLACE FULL DEPTH PATCHES
- 3. REPLACE HMA MATERIAL OVER THE AREA TO BE PATCHED.

L DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS

	,	THERMIZE SHOWN.	
REVISION	ONS	THE INDIC DEDARTMEN	T OF TRANSPORTATION
NAME	DATE	ILLINOIS DEPARTMEN	II OF TRANSPORTATION
R. SHAH	10/25/94		
R. SHAH	01/14/95		
R. SHAH	03/23/99	PAVEMENT F	PATCHING FOR
R, SHAH	04/24/95		URFACED
A. HOUSEH	03/15/96	• –	
A. ABBAS	03/21/97	PAV	EMENT
A. ABBAS	01/20/98		
ART ABBAS	04/27/98	SCALE, VERT. NIDALE	
R. BORO	01/01/07	SCALE: VERT. NONE	DRAWN BY
B BOBO	00/04/07		CUECKED BY

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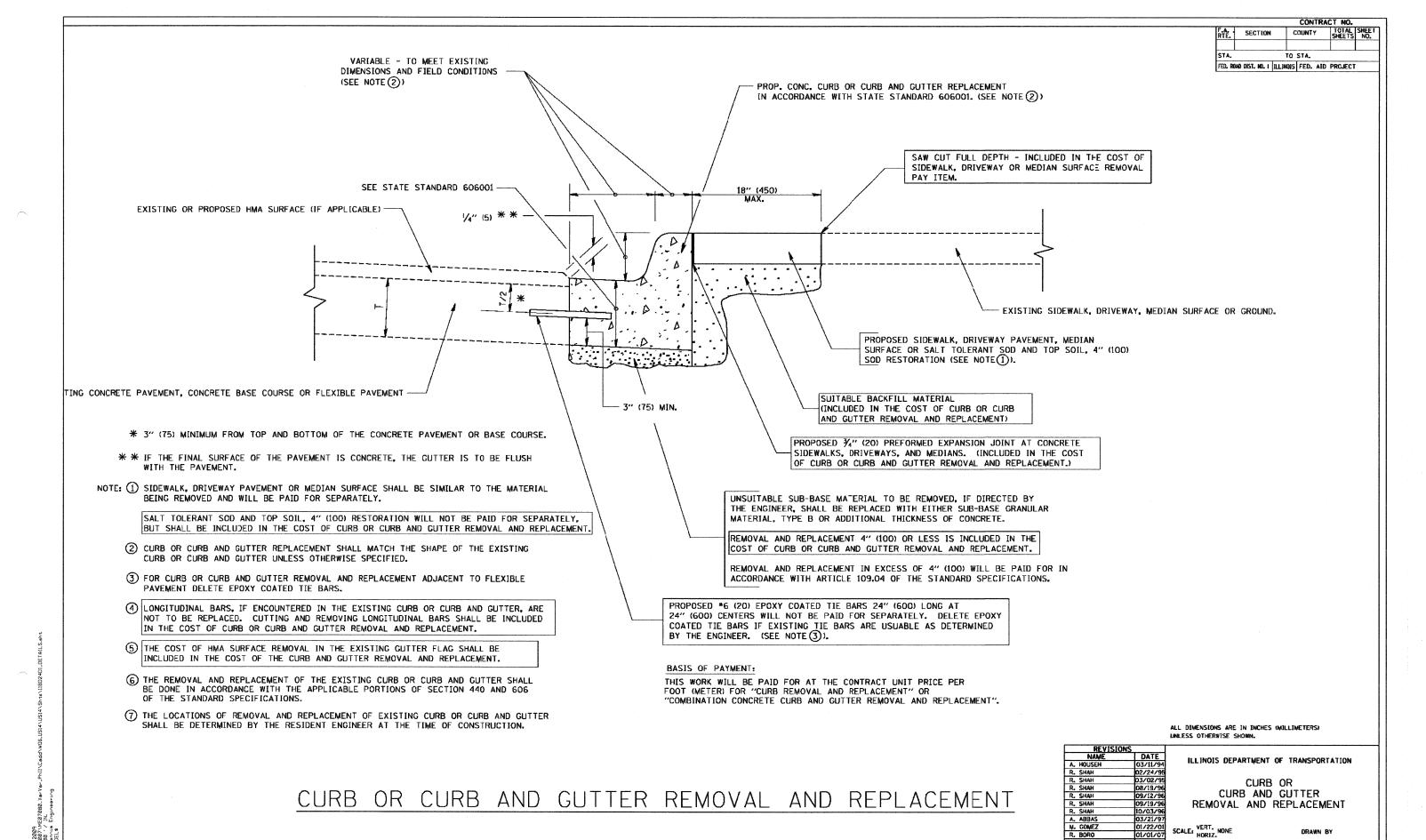
REVISED DESIGNED DRAWN TVN REVISED CHECKED REVISED 01/14/09 REVISED

STATE OF ILLINOIS

U.S. ROUTE 14 BUNKER HILL RD TO PARK LANE DR SHEET NO.\$801 OF SHEETS STA.

DISTRICT ONE STANDARD DETAILS BD400-04

BD400-04 (BD-22) COUNTY TOTAL SHEET NO. SECTION MCHENRY CONTRACT NO. 60E18



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7 200 22ND Street, Suite 216, Lombard, IL 60148 630.795.0110 voice, 630.839, 2566 fax www.millenniaeng.com MILLENNIA ENGINEERING
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 DATE
 01/14/09
 REVISED

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 14
BUNKER HILL RD TO PARK LANE DR

SCALE: SHEET NO. OF SHEETS STA.

DISTRICT ONE STANDARD DETAILS BD-24

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT
P: 2007 ME07080 Var Var. PhilsCodd WOS USIA VISIA VShas VIBD 24DL DETAILS.

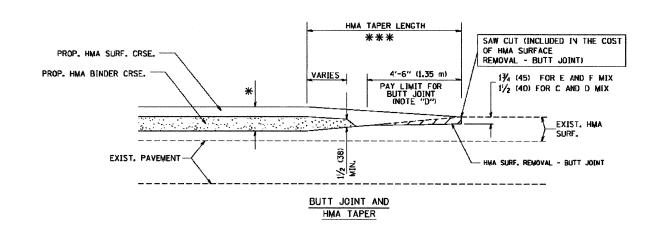
OPTION 1

PROP. PAY LIMIT OF HMA SURF. REMOVAL FULL THICKNESS OF MILLING SAW CUT (INCLUDED IN THE COST TEMP. RAMP OF HMA SURFACE PROP. HMA SURFACE REMOVAL REMOVAL - BUTT JOINT) 174 (45) FOR E AND F MIX 4'-6" (1.35 m) PAY LIMIT FOR BUTT JOINT 1/2 (40) FOR C AND D MIX EXIST. HMA EXIST. PAVEMENT HNA CONSTRUCTED TEMPORARY RAMP

(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

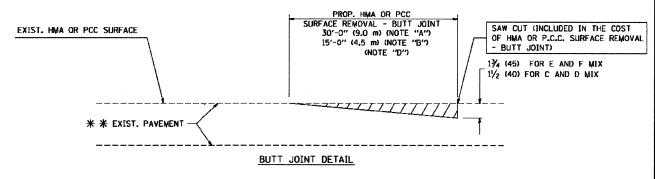
OPTION 2

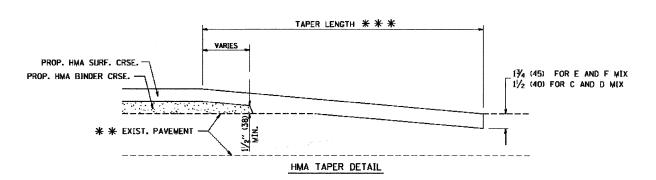
TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

CONTRACT NO. SECTION COUNTY FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT





TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

* * PC CONCRETE, HMA OR HMA RESURFACED PAVEMENT.

- 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'-O" (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.
- ** ** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A") 10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

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

ILLINOIS DEPARTMENT OF TRANSPORTATION

BASIS OF PAYMENTS

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

REVISIO	ONS	_
NAME	DATE	
M. DE YONG	6-13-90	
M. DE YONG	7-3-90	
M. DE YONG	3-27-92	
R, SHAH	09/09/94	
R, SHAH	10/25/94	
A. ABBAS	03/21/97	
M. GOMEZ	04/06/01	
R. BORO	01/01/07	
······································		5

BUTT JOINT AND HMA TAPER DETAILS

SCALE: VERT. NONE

DRAWN BY CHECKED BY

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STATE OF ILLINOIS

U.S. ROUTE 14 BUNKER HILL RD TO PARK LANE DR SHEET NO. OF SHEETS STA.

DISTRICT ONE STANDARD DETAILS BD400-05

BD400-05 (VI=BD32)
COUNTY TOTAL SHEE SHEETS NO. MCHENRY CONTRACT NO. 60E18

FED. ROAD DIST. NO. 1 | ILLINOIS | FED. AID PROJECT
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TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS

- A. FOR NO LAME RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS
- 1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
- C) ONE ROAD CONSTRUCTION AHEAD SIGN 36 x 36 (900×900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE
- b) THE CLOSED PORTION OF THE MAIN ROLTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 2. SIDE ROAD WITH A SPEED LIMIT CREATER THAN 40 MPH 160 km/hi AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEERs
- 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 ROLTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- 3. WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE NORK 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 ISTD. TOLSOI, 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 LINLESS
- 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.

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORT	ATION
NAME	DATE	TELEMOIS DEFRICIPENT OF THANKS ON T	A110H
LHA	6/89	TRAFFIC CONTROL AND PROT	ECTION
T. RAMMACHER	09/08/94		LC I TOM
J. OBERLE	10/18/95] FOR	
	03/06/96		AND
	10/15/96	,	O, AND
T. RAMMACHER	01/06/00	DRIVEWAYS	
]	
		SCALE: NONE DRAWN BY	,
L]	
		1 CHECKED	BV

200 22ND Street, Suite 216, Lombard, IL 60148 630.705.0110 voice, 630.839.2566 fax www.millenniaeng.com MILLENNIA ENGINEERING DESIGNED TVN REVISED DRAWN TVN REVISED CHECKED REVISED 01/14/09 REVISED

STATE OF ILLINOIS

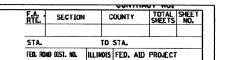
U.S. ROUTE 14 **BUNKER HILL RD TO PARK LANE DR** SHEET NO. \$D020F SHEETS STA.

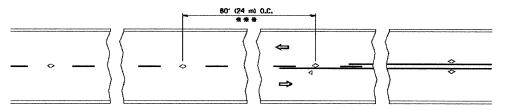
DISTRICT ONE STANDARD DETAILS

TC-10 COUNTY TOTAL SHEET NO.

MCHENRY 17 13 SECTION CONTRACT NO. 60E18

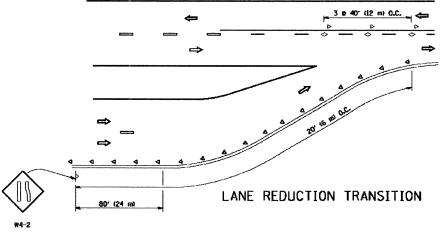
| CONTRACT NO. 6UE18 | FED. RID PROJECT | FED. RID PROJECT | F2.2007\ME07080_VorVor_Phil\Codd\WD6.USI4\USI4\Shts\i3TCI0Dl_DETAILS.sht

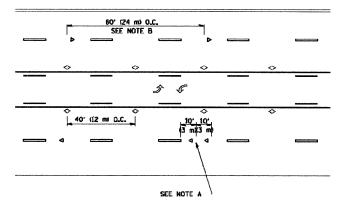




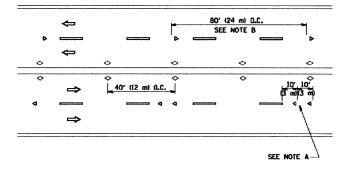
*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

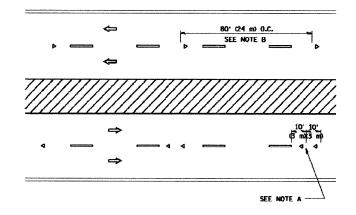




TWO-WAY LEFT TURN



MULTI-LANE/UNDIVIDED



MULTI-LANE/DIVIDED

GENERAL NOTES

- 1. 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.
- 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

- 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.
- A. USE DOUBLE LANE LINE WARKERS SPACED AS SHOWN.

SYMBOLS

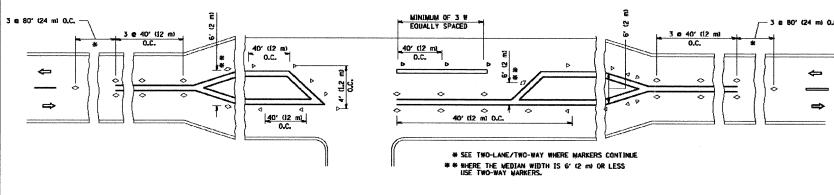
- ---- YELLOW STRIPE
- WHITE STRIF
- ◆ ONE-WAY AMBER WARKER
- ONE-WAY CRYSTAL MARKER (W/O)

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 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.

REVISIONS		THE TWO IS DEPARTMENT	NT OF TRANSPORTATION
NAME	DATE	ILLINOIS DEPARTMEN	41 OF INMISTORIALION
T. RAMMACHER	09-19-94		
T. RAMMACHER	03-12-99	TYPICAL A	APPLICATIONS
T. RAMMACHER	01-06-00	RAISED REFLE	CTIVE PAVEMENT
		MARKERS (SNOW	-PLOW RESISTANT)
		SCALE: NONE	DRAWN BY CADD
			CHECKED BY
			TC-11



LEFT TURN

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DESIGNED	-	TVN	REVISED	-	Γ
DRAWN	-	TVN	REVISED	-	
CHECKED	-	RPD	REVISED	-	l
DATE	~	01/14/09	REVISED	*	

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 14 BUNKER HILL RD TO PARK LANE DR

DISTRICT ONE STANDARD DETAILS TC-11

TRANSPORTATION

BUNKER HILL RD TO PARK LANE DR

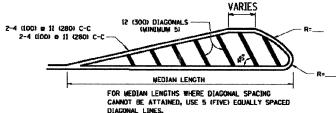
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CONTRACT

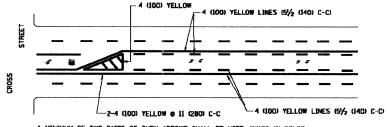
SCALE: SHEET NO. OF SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 ||LLINDIS|FED. AID PROJECT

2-4 (100) YELLOW & 11 (280) C-C-NO DIAGONALS OUTSIDE OF LINES - 2-4 (100) YELLOW @ 11 (280) C-C

4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

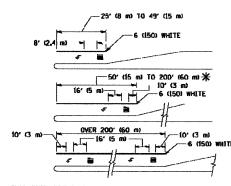


A MINIMUM OF TWO PAIRS OF TURN ARROWS SHALL BE USED, WHITE IN COLOR, ADDITIONAL PAIRS SHALL BE PLACED AT 200' (60 m) TO 300' (90 m) INTERVALS.



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 SO. FT. (1.5 m²) M 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

8 (200) WHITE-12 (300) WHITE DIAGONALS e (O' (3 m) OR LESS SPACING ISLAND OFFSET FROM PAVEMENT EDGE

8 (200) WHITE -RAISED ESLAND 2 (50) ISLAND AT PAVEMENT EDGE

TYPICAL ISLAND MARKING

TYPE OF MARKING	WIDTH OF LINE	PATTERN	COLOR	SPACING / REMARKS
CENTERLINE ON 2 LANE PAVEMENT	4 (100)	SKJP-DASH	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE
CENTERLINE ON MULTI-LANE UNDIVEDED PAVEMENT	2 @ 4 (100)	SOLID	YELLOW	ii (280) C-C
NO PASSING ZONE LINES: FOR ONE DIRECTION FOR BOTH DIRECTIONS	4 (100) 2 e 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	SKJP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOL 1D	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) LINE, FIELL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 e 4 (100) EACH DIRECTION	SKJP-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 m 6 (150) 12 (300) m 45° 12 (300) m 90°	SOLID SOLID SOLID	WHITE WHITE WHITE	NOT LESS THAN 6' (L8 m) APART 2' (500) APART 2' (500) APART SEE TYPICAL CROSSWALK MARKING DETAILS.
STOP LINES	24 (600)	SOLID	WHITE	FLACE 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 e 4 (100) WITH 12 (300) DIAGONALS e 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) 10 45MPH (70 km/h)) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LIMES: "RR" IS 6' (1.8 m) LETTERS: 16 (400) LIME FOR "X"	SOL 10	WH[TE	SEE STATE STANDARD 780001 AREA OF: "M"53.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (6.0 m²)
SHOULDER DIAGONALS	12 (300) a 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 (QVER 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.

REVISION	(S	ILLINOIS DEPARTMENT OF TRANSPORTA	IE GEDARTMENT OF TRANSPORTATION		
NAME DATE		ILL140	IS DEPARTMENT OF TRANSPORTATION		
EVERS	03-19-90				
T, RAMMACHER	10-27-94		DISTRICT ONE		
ALEX HOUSEH	10-09-96	DISTRICT ONE			
ALEX HOUSEH	10-17-96		TYPICAL PAVEMENT		
T. RAMMACHER	01-06-00		MADUTNICC		
			MARKINGS		
		SCALE: NONE			
		SCALE: NUNE	DRAWN BY CADD		

DRAWN BY CADD CHECKED BY TC-13

TOTAL SHEET SHEETS NO.

COUNTY

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

RTE SECTION

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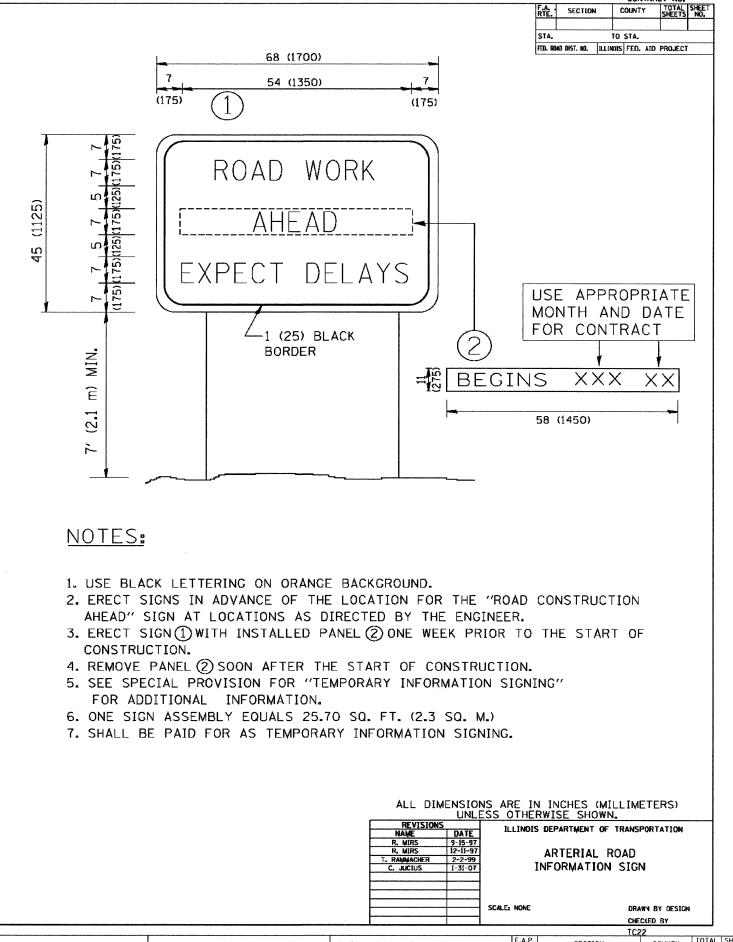
STATE OF ILLINOIS

U.S. ROUTE 14 BUNKER HILL RD TO PARK LANE DR SHEET NO. 18 OF SHEETS STA.

DISTRICT ONE STANDARD DETAILS

TO STA.

COUNTY TOTAL SHEETS NO. SECTION MCHENRY 29RS-4 CONTRACT NO. 60E18 FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT



200 22ND Street, Suite 216, Lombard, IL 60148 630.705.0110 voice, 630.839.2566 fax MILLENNIA ENGINEERING

REVISED DRAWN TVN REVISED CHECKED RPD REVISED 01/14/09 REVISED

STATE OF ILLINOIS

U.S. ROUTE 14 BUNKER HILL RD TO PARK LANE DR SHEET NO. OF SHEETS STA.

DISTRICT ONE STANDARD DETAILS TC-22 TO STA.

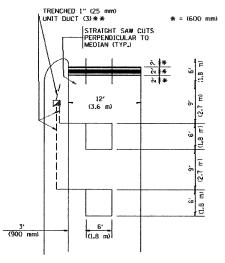
COUNTY TOTAL SHEE SHEETS NO. CONTRACT NO. 60E18

CONTRACT NO.

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

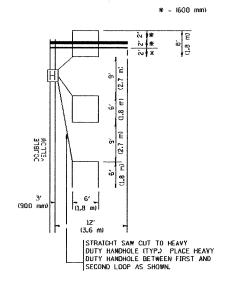
(PROTECTED / PERMITTED LEFT TURN PHASING)

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
BI4001 TO ENSURE THAT HANDHOLE
FITS IN MEDIAN.



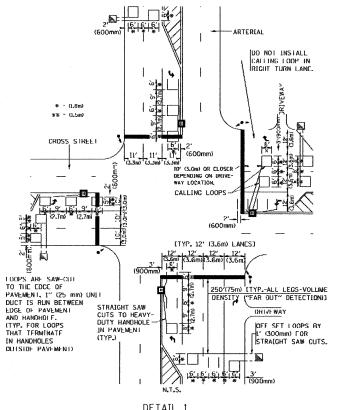
** UNIT DUCT IS TO BE SHOWN ON PLAN SHEETS BUT SHALL NOT BE INCLUDED IN THE PAY ITEMS. NOTE: DUAI IFFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT LEFT TURN LANES WITHOUT MEDIANS
VOLUME DENSITY ("FAR OUT" DETECTION)
ON SAME APPROACH

(PROTECTED / PERMITTED LEFT TURN PHASING)

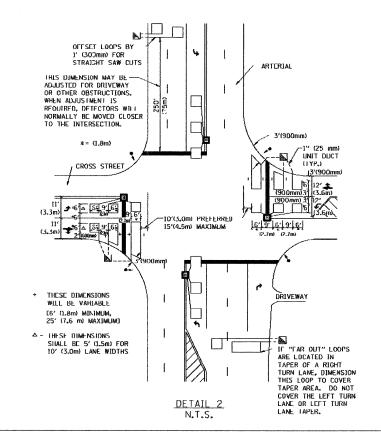


NOTE: DUAL LEFT TURNS NOT SHOWN REFER TO PLAN SHEET FOR DETECTOR LOOP REPLACEMENT

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



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



NOTES:

VEHICLES LOOP DETECTORS

- * ALL LEAD IN CABLE SHALL BE TWO CONDUCTOR NO. 14 TWISTED, SHIELDED.
- * FACH DETECTOR LOOP SHALL HAVE ITS OWN SAW CITE 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 FAID FOR SEPARATLY. THIS ITEM IS INCIDENTAL TO THE PAY ITEM FOR DETECTOR LOOPS.
- * ONE DIMENSION OF ALL DETECTOR LOOPS SHALL BE SIX FFFT
- * 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 IHAN ONE LOOP PER LANE IS REQUIRED BEHIND THE STOP HAR (L.c., 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 LAYOJT, 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 FOILOWING FIGURES REPRESENT THE MOST COMMON DETECTOR LOOP LOCATIONS AND SIZES. ADJUSTMENTS WILL BE NECESSARY FOR SPECIFIC GEOMETRIC CONSIDERATIONS.

LOCATIONS AND DEMENSIONS OF DETECTOR LOOPS ARE REQUIRED ON $\underline{\mathsf{ALL}}$ 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. "UPTICHT" 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 I TRAFFIC SIGNAL DESIGN CUIDELINES DATED JANUARY 1995

THIS DRAWINC HAS BEEN PREPARED TO ASSIST THE RESIDENT ENCINEER FOR ALL ROADWAY RESURFACINC 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.

		ILI INOIS DEPARTME	NI OF TRANSPORTATION
REVISION NAME	IS I DATE		TRICT 1 TOR LOOP
1.00 1175	3/112	INSTALLA	TION DETAILS AY RESURFACING
		SCALE: NONE DATE 10/18/2002	DRAWN BY CADD DESIGNED BY CHECKED BY R.K.F.

civer o jocis/district/s607 dgo

10/18/2002

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630.705.0110 voice, 630.839.2366 fax
www.milinaisarg.com
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 DATE
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

U.S. ROUTE 14
BUNKER HILL RD TO PARK LANE DR
SCALE: SHEET NO. \$D020E SHEET

DISTRICT ONE STANDARD DETAILS TC-10

SHEET NO.*DOZOF SHEETS STA. TO STA. FED. ROAD DIST. NO. 1 | ILLINOIS FED. AID PROJECT