

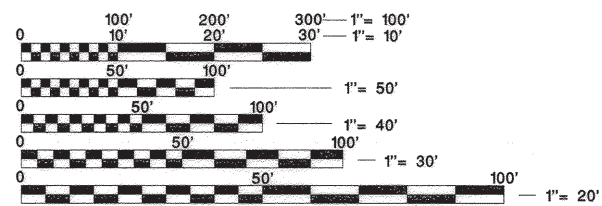
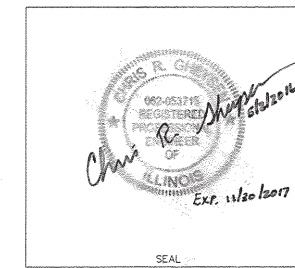
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED
FEDERAL AID HIGHWAY

FOR INDEX OF SHEETS, SEE SHEET NO. 2

DESIGN DESIGNATION:
FUNCTIONAL CLASS: MAJOR COLLECTOR
ADT: 3250 (2015)
POSTED SPEED = 30 MPH

VOLO VILLAGE ROAD
RAND ROAD TO BELVIDERE ROAD
SECTION NO. : 15-00007-00-RS
PROJECT NO. : M-4003 (644)
RESURFACING
VILLAGE OF VOLO
LAKE COUNTY
C-91-164-16

MUN	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
200	15-00007-00-RS	LAKE	13	1
		ILLINOIS	CONTRACT NO.	61D00

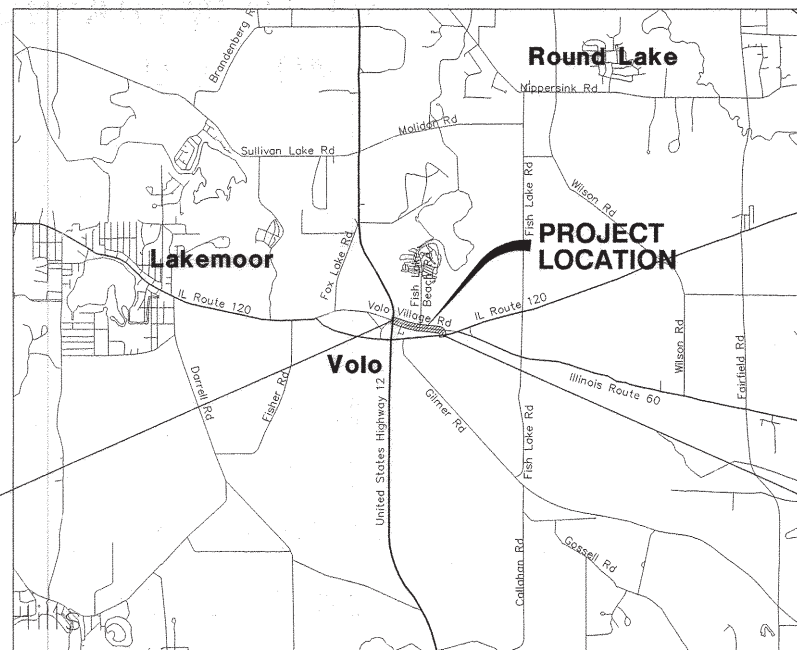


FULL SIZE PLANS HAVE BEEN PREPARED USING STANDARD ENGINEERING SCALES. REDUCED SIZED PLANS WILL NOT CONFORM TO STANDARD SCALES. IN MAKING MEASUREMENTS ON REDUCED PLANS, THE ABOVE SCALES MAY BE USED.

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



DISTRICT 1
CONTRACT NO. 61D00



PROJECT BEGINS
 STA. 41+13

PROJECT ENDS
 STA. 61+17

LOCATION MAP
 SCALE
 NOT TO SCALE

GROSS LENGTH = 2004 FT. = 0.34 MILE
 NET LENGTH = 2004 FT. = 0.34 MILE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED *Michael J. May 5/4/16*
 Michael J. May 5/4/16
 VILLAGE OF VOLO, VILLAGE ADMINISTRATOR

PASSED *MAY 12 2016*
John F. ...
 DISTRICT 1 ENGINEER OF LOCAL ROADS & STREETS

RELEASING FOR BID
 BASED ON LIMITED
 REVIEW *May 12 2016*
John F. ...
 REGION 1 ENGINEER

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THE STATE OF ILLINOIS

INDEX OF SHEETS

SHEET NO.	DESCRIPTION
1	COVER SHEET
2	INDEX OF SHEETS AND GENERAL NOTES
3	SUMMARY OF QUANTITIES
4-5	TYPICAL SECTIONS
6	ROADWAY, PAVEMENT MARKING AND SIGNAGE PLANS
7	DISTRICT ONE DETAIL - FRAMES AND LIDS ADJUSTMENT WITH MILLING (BD-08)
8	DISTRICT ONE DETAIL - PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT (BD-22)
9	DISTRICT ONE DETAIL - BUTT JOINT AND HMA TAPER DETAILS (BD-32)
10	DISTRICT ONE DETAIL - TYPICAL PAVEMENT MARKINGS (TC - 13)
11	DISTRICT ONE DETAIL - ARTERIAL ROAD INFORMATION SIGN (TC - 22)
12	DISTRICT ONE DETAIL - PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING (TC-16)
13	DISTRICT ONE DETAIL - TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS (TC-10)

APPLICABLE STATE STANDARDS

000001-06	STANDARD SYMBOLS, ABBREVIATIONS, AND PATTERNS
001006	DECIMAL OF AN INCH AND OF A FOOT
482011-03	HMA SHLD. STRIPS/SHLDS. WITH RESURFACING OR WIDENING AND RESURFACING PROJECTS
701301-04	LANE CLOSURE, 2L, 2W, SHORT TIME OPERATIONS
701311-03	LANE CLOSURE 2L, 2W MOVING OPERATIONS-DAY ONLY
701501-06	URBAN LANE CLOSURE, 2L, 2W, UNDIVIDED
701901-05	TRAFFIC CONTROL DEVICES
720001-01	SIGN PANEL MOUNTING DETAILS
720006-04	SIGN PANEL ERECTION DETAILS
720011-01	METAL POSTS FOR SIGNS, MARKERS & DELINEATORS
728001-01	TELESCOPING STEEL SIGN SUPPORT
729001-01	APPLICATIONS OF TYPES A & B METAL POSTS (FOR SIGNS & MARKERS)
780001-05	TYPICAL PAVEMENT MARKINGS
B.L.R. 18-6	TRAFFIC CONTROL DEVICES - DAY LABOR MAINTENANCE

GENERAL NOTES

- ALL CONSTRUCTION SHALL BE IN ACCORDANCE WITH THE DETAILS IN THE PLANS, THE SPECIAL PROVISIONS INCLUDED IN THE CONTRACT DOCUMENTS, AND THE LATEST EDITION OF THE FOLLOWING STATE OF ILLINOIS SPECIFICATIONS: "THE STANDARD SPECIFICATIONS FOR ROAD AND BRIDGE CONSTRUCTION" (REFERRED TO AS "THE STANDARD SPECIFICATIONS"), THE "SUPPLEMENTAL SPECIFICATIONS AND RECURRING SPECIAL PROVISIONS" THE "MANUAL ON UNIFORM TRAFFIC CONTROL DEVICES FOR STREETS AND HIGHWAYS" (THE MUTCD), AND THE "ILLINOIS STANDARD HIGHWAY SIGNS BOOK".
- 48 HOURS 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.
- THE CONTRACTOR WILL NOT BE ALLOWED TO SET UP A YARD OR FIELD OFFICE ON VILLAGE OR STATE PROPERTY WITHOUT WRITTEN PERMISSION FROM THE VILLAGE OF VOLO, THE VILLAGE OF LAKEMOOR, OR THE ILLINOIS DEPARTMENT OF TRANSPORTATION.
- BEFORE BEGINNING ANY WORK, THE CONTRACTOR SHALL RETAIN AND RECORD FOR FUTURE REFERENCE, ALL EXISTING PAVEMENT MARKING LINES IN ORDER THAT THESE LOCATIONS CAN BE RE-ESTABLISHED FOR STRIPING.
- PERMANENT PAVEMENT MARKINGS SHALL BE THERMOPLASTIC AND SHOULD BE PLACED ACCORDING TO THE "DISTRICT ONE TYPICAL PAVEMENT MARKINGS" DETAIL.
- ALL DAMAGE TO EXISTING PAVEMENT MARKINGS OR RAISED REFLECTIVE PAVEMENT MARKERS OUTSIDE THE REMOVAL LIMITS SHOWN ON THE PLANS SHALL BE REPLACED AT NO ADDITIONAL COST TO THE DEPARTMENT.
- PAVEMENT PATCHING LOCATIONS WILL BE DETERMINED IN THE FIELD BY THE ENGINEER.
- THE CONTRACTOR SHALL CONTACT THE IDOT TRAFFIC CONTROL SUPERVISOR AT (847) 705-4470 A MINIMUM OF 72 HOURS IN ADVANCE OF BEGINNING WORK.
- THE CONTRACTOR SHALL AVOID CAUSING DAMAGE TO THE EXISTING LOOP DETECTORS AT US ROUTE 12 AND VOLO VILLAGE ROAD.
- THE CONTRACTOR MUST OBTAIN PERMISSION FROM THE VILLAGE OF VOLO PRIOR TO USE OF ANY VILLAGE HYDRANTS AND FOLLOW ALL REQUIRED PROCEDURES REQUESTED BY THE VILLAGE FOR USE OF THE WATER SYSTEM.
- THE CONTRACTOR SHALL ADHERE TO ALL APPLICABLE LOCAL REGULATIONS INCLUDING WORK HOUR REGULATIONS. WORK SHALL BE LIMITED TO THE HOURS BETWEEN 6:30 AM AND 7:30 PM ON WEEKDAYS (MONDAY THROUGH FRIDAY) AND BETWEEN 7:00 AM AND 4 PM ON SATURDAYS. THERE WILL BE NO SUNDAY WORK ALLOWED.

FILE NAME = P:\Vol127\dwg\Eng\Final Drawings\Plan Set\02-GEN NOTES.dwg	USER NAME = Alarson	DESIGNED - ATL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	GENERAL NOTES				MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.	
	PLOT SCALE = 1:1	CHECKED - CRG	REVISED -						200	I5-00007-00-RS	LAKE	13	2	
	PLOT DATE = April 29, 2016 - 10:30	DATE - 02-25-16	REVISED -		SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO	STA.	CONTRACT NO. 61000		
											ILLINOIS	FED. AID	PROJECT	

SUMMARY OF QUANTITIES				CONSTR. CODE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0005
40600290	BITUMINOUS MATERIALS (TACK COAT)	POUND	5170	5170
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGEWAYS	TON	17	17
40600827	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	316	316
40600982	HOT-MIX ASPHALT SURFACE REMOVAL - BUTT JOINT	SQ YD	151	151
40600990	TEMPORARY RAMP	SQ YD	88	88
40603335	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50	TON	858	858
44000160	HOT-MIX ASPHALT SURFACE REMOVAL, 2 3/4"	SQ YD	7659	7659
44201737	CLASS D PATCHES, TYPE I, 8 INCH	SQ YD	25	25
44201741	CLASS D PATCHES, TYPE II, 8 INCH	SQ YD	50	50
44201745	CLASS D PATCHES, TYPE III, 8 INCH	SQ YD	100	100
44201747	CLASS D PATCHES, TYPE IV, 8 INCH	SQ YD	250	250
48102100	AGGREGATE WEDGE SHOULDER, TYPE B	TON	230	230
70102620	TRAFFIC CONTROL AND PROTECTION, STANDARD 701501	LSUM	1	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	LSUM	1	1
70300100	SHORT TERM PAVEMENT MARKING	FOOT	200	200
70300150	SHORT TERM PAVEMENT MARKING REMOVAL	SQ FT	103	103
70300210	TEMPORARY PAVEMENT MARKING LETTERS AND SYMBOLS	SQ FT	36	36
72000100	SIGN PANEL - TYPE 1	SQ FT	63	63
72000200	SIGN PANEL - TYPE 2	SQ FT	11	11

SUMMARY OF QUANTITIES				CONSTR. CODE
CODE NO.	ITEM	UNIT	TOTAL QUANTITY	ROADWAY 0005
72400100	REMOVE SIGN PANEL ASSEMBLY - TYPE A	EACH	8	8
72400200	REMOVE SIGN PANEL ASSEMBLY - TYPE B	EACH	2	2
72800100	TELESCOPING STEEL SIGN SUPPORT	FOOT	13	13
72900100	METAL POST - TYPE A	FOOT	146	146
72900200	METAL POST - TYPE B	FOOT	16	16
Δ 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS AND SYMBOLS	SQ FT	36	36
Δ 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	6743	6743
Δ 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	98	98
Δ 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	48	48
* Z0030850	TEMPORARY INFORMATION SIGNING	SQ FT	53	53

Δ SPECIALTY ITEMS

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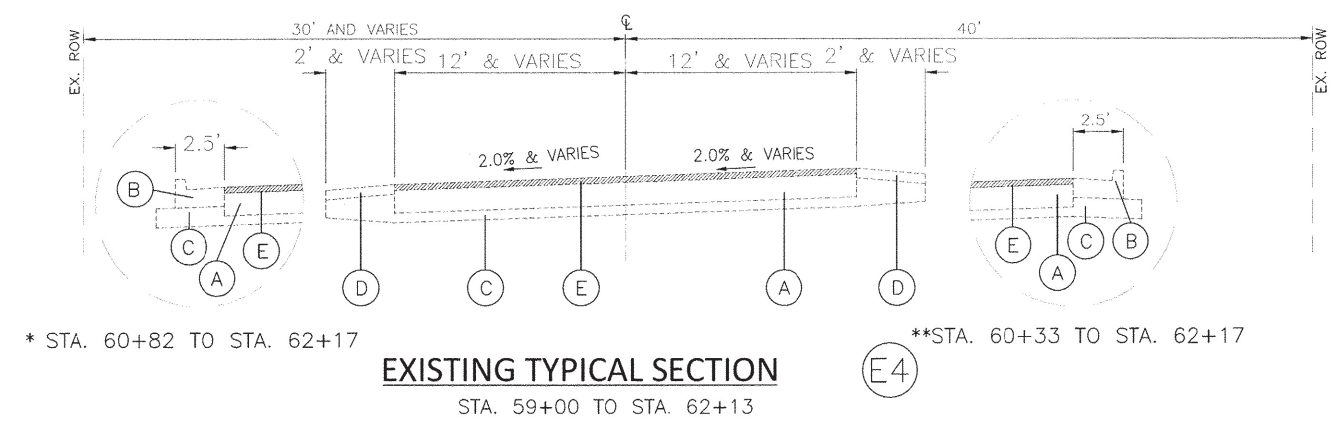
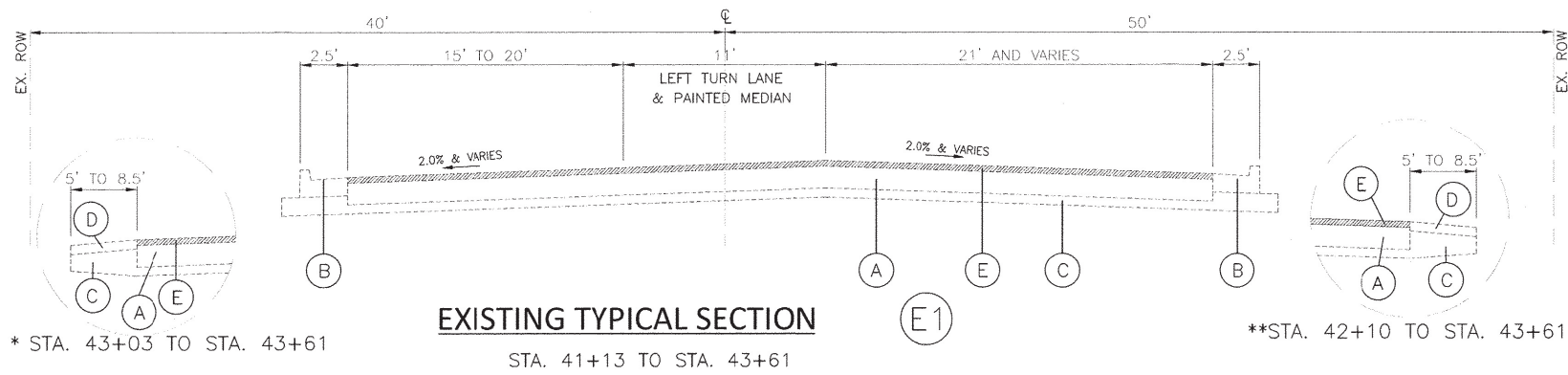
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

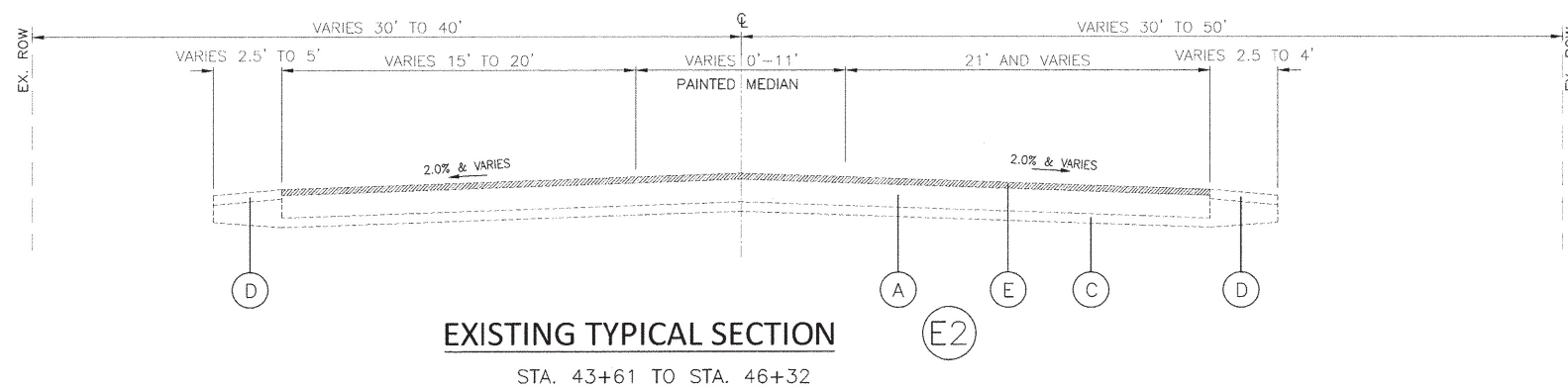
SUMMARY OF QUANTITIES

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
200	I5-00007-00-RS	LAKE	13	3
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61000	

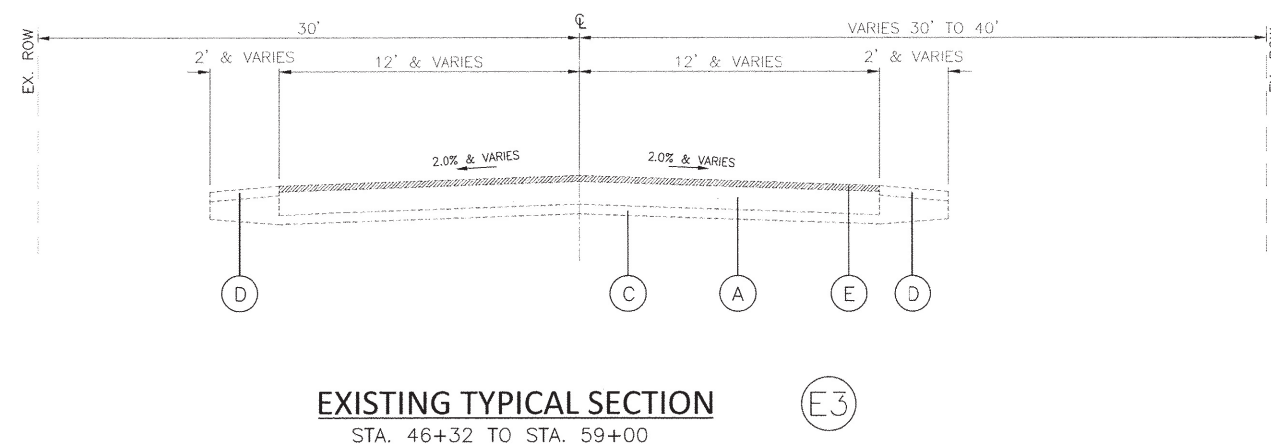


NOTE: PCC SIDEWALK PRESENT 11'-12' OFF BACK OF CURB FROM STA. 41+13 TO STA. 42+60 LT.



EXISTING LEGEND

- (A) BITUMINOUS PAVEMENT, 11"-12"
- (B) CONC. CURB & GUTTER, B 6.24
- (C) AGGREGATE SUBGRADE
- (D) AGGREGATE SHOULDER
- (E) HMA SURFACE REMOVAL, 2 3/4"



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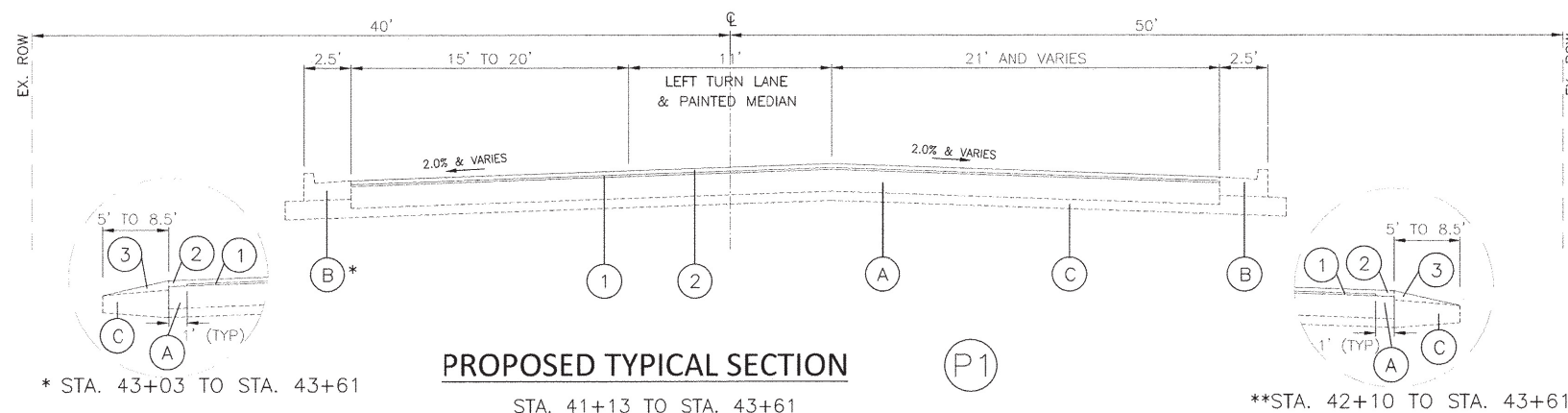
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 DEPARTMENT OF TRANSPORTATION

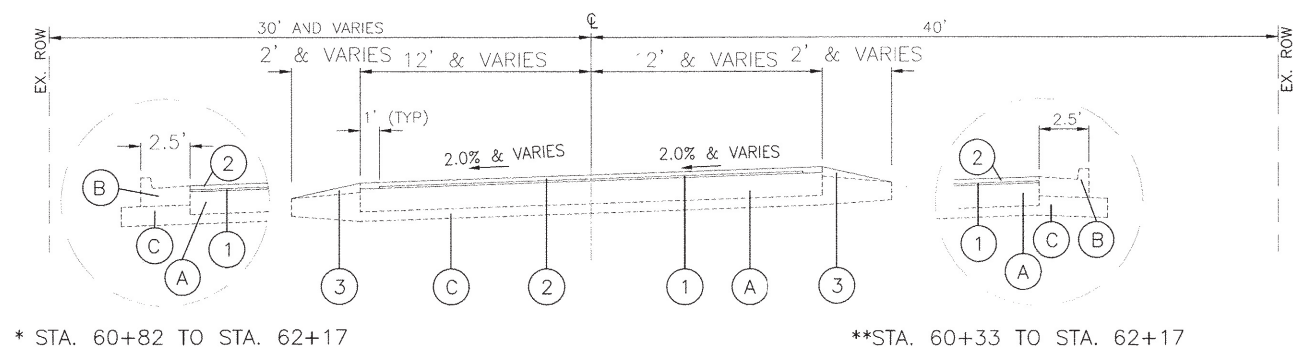
TYPICAL SECTIONS
 SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
200	15-00007-00-RS	LAKE	13	4
CONTRACT NO. 6ID00				
ILLINOIS FED. AID PROJECT				



PROPOSED TYPICAL SECTION (P1)

NOTE: PCC SIDEWALK PRESENT 11'-12' OFF BACK OF CURB FROM STA. 41+13 TO STA. 42+60 LT.

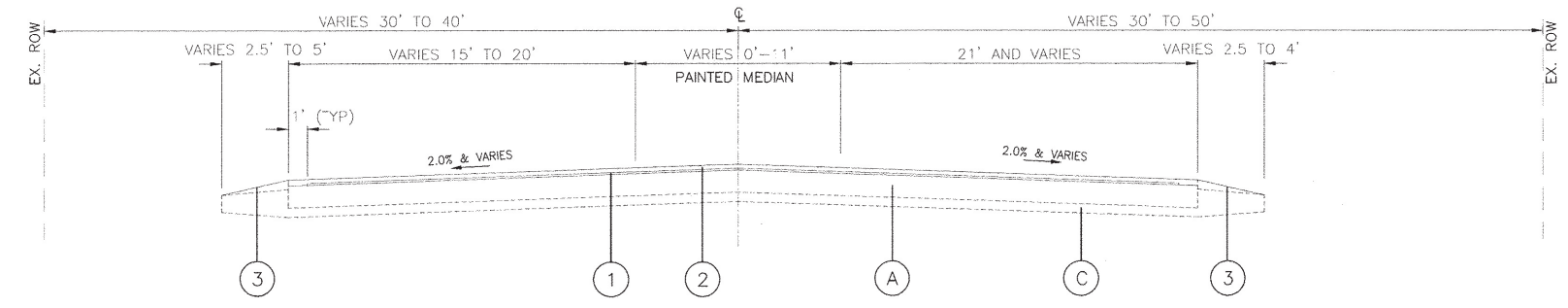


PROPOSED TYPICAL SECTION (P4)

STA. 59+00 TO STA. 62+13

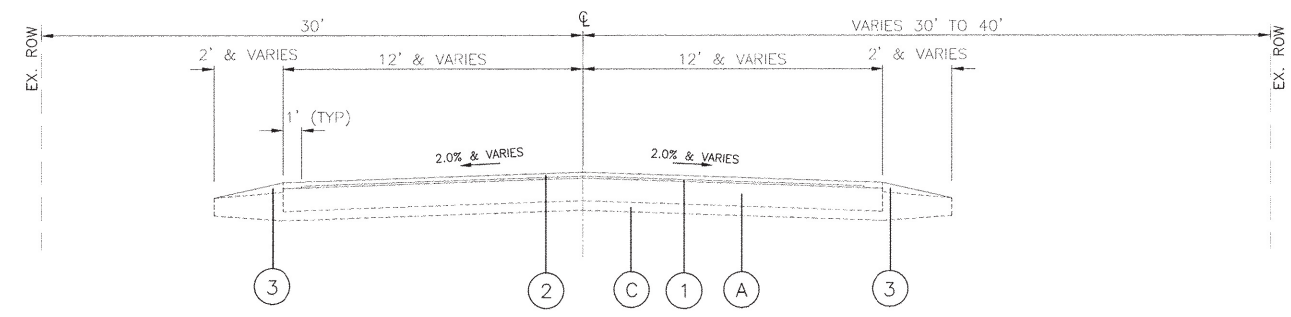
LEGEND

- (A) BITUMINOUS PAVEMENT, 11"-12"
- (B) CONC. CURB & GUTTER, B 6.24
- (C) AGGREGATE SUBGRADE
- (D) AGGREGATE SHOULDER
- (E) HMA SURFACE REMOVAL, 2 3/4"
- (1) POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50, 3/4"
- (2) HMA SURFACE COURSE, MIX "D", N50, 2"
- (3) AGGREGATE WEDGE SHOULDER, TYPE B



PROPOSED TYPICAL SECTION (P2)

STA. 43+61 TO STA. 46+32



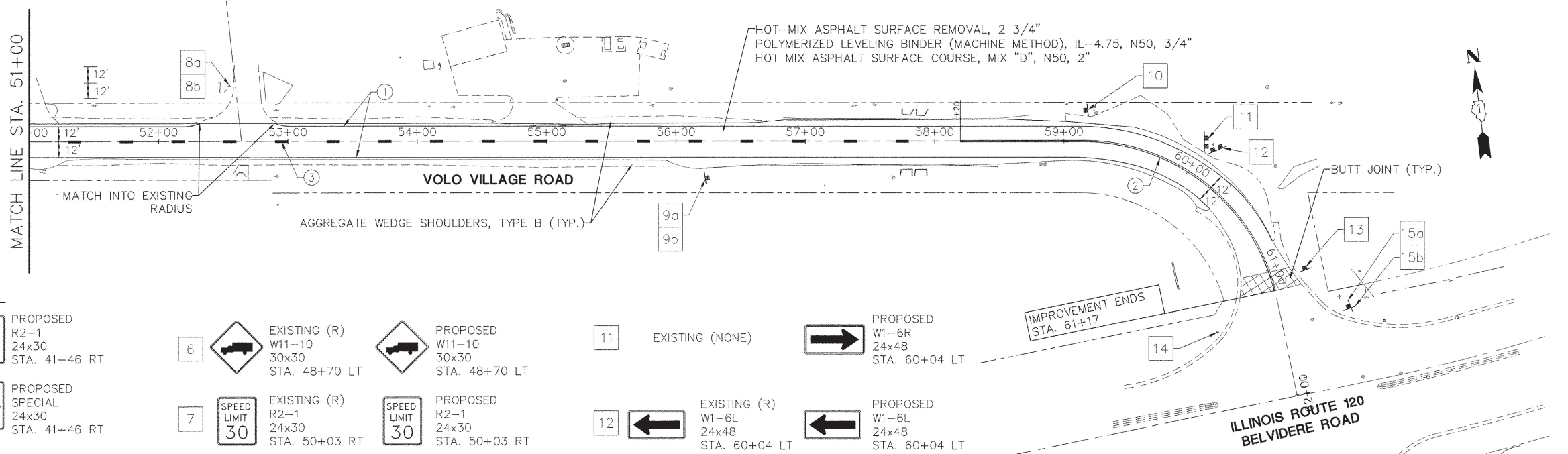
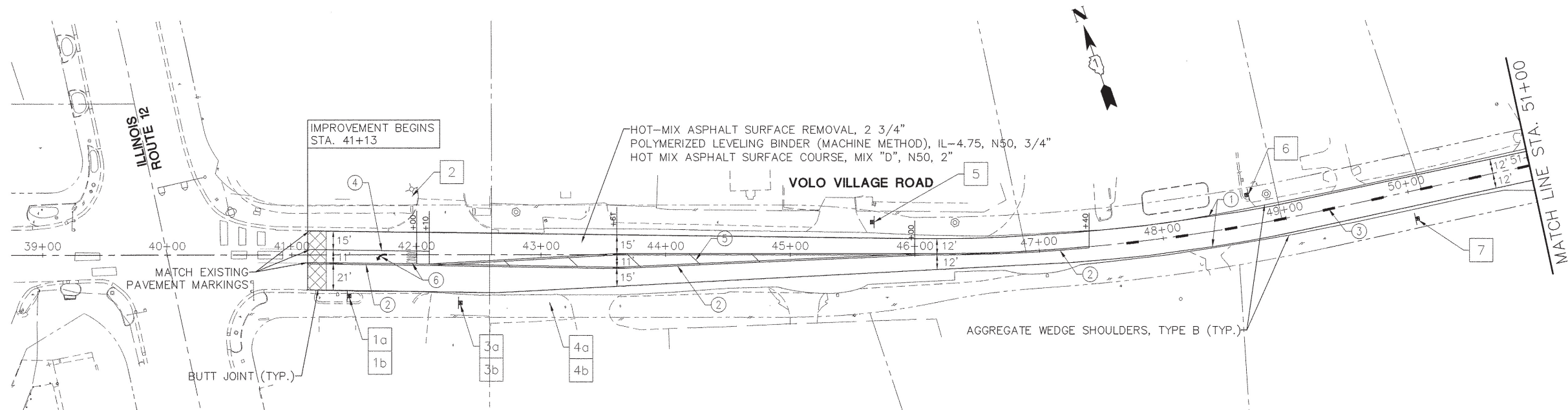
PROPOSED TYPICAL SECTION (P3)

STA. 46+32 TO STA. 59+00

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

MIXTURE TYPE	AIR VOIDS MIXTURE TYPE
PAVEMENT RESURFACING	
HMA SURFACE COURSE, MIX "D", N50	4% @ 50 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), N50, IL-4.75	3.5% @ 50 Gyr.
PATCHING	
CLASS D PATCHES (HMA BINDER, IL-19 mm)	4% @ 70 Gyr.

* THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACT MIXTURES 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 MY 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.



SIGN SCHEDULE

1a	EXISTING (R) R2-1 24x30 STA. 41+46 RT	PROPOSED R2-1 24x30 STA. 41+46 RT	6	EXISTING (R) W11-10 30x30 STA. 48+70 LT	PROPOSED W11-10 30x30 STA. 48+70 LT	11	EXISTING (NONE)	PROPOSED W1-6R 24x48 STA. 60+04 LT
1b	EXISTING (R) 24x30 STA. 41+46 RT	PROPOSED SPECIAL 24x30 STA. 41+46 RT	7	EXISTING (R) R2-1 24x30 STA. 50+03 RT	PROPOSED R2-1 24x30 STA. 50+03 RT	12	EXISTING (R) W1-6L 24x48 STA. 60+04 LT	PROPOSED W1-6L 24x48 STA. 60+04 LT
2	EXISTING (TO REMAIN)		8a	EXISTING (TO REMAIN)		13	EXISTING (R) 24x30 STA. 61+07 LT	PROPOSED SPECIAL 24x30 STA. 61+07 LT
3a	EXISTING (R) W1-2L 30x30 STA. 42+35 RT	REMOVED	8b	EXISTING (TO REMAIN)		14	EXISTING (TO REMAIN)	
3b	EXISTING (R) 24x30 STA. 42+35 RT	REMOVED	9a	EXISTING (R) W1-1R 36x36 STA. 56+24 RT	PROPOSED W1-1R 30x30 STA. 56+24 RT	15a	EXISTING (R) D3-1 VARx12 STA. 61+41 LT	PROPOSED D3-1 GREEN RETROREFLECTIVE VARx12 ON TELESCOPING STEEL SIGN SUPPORT STA. 61+41 LT
4a	EXISTING (TO REMAIN)		9b	EXISTING (R) W13-1 24x24 STA. 56+24 RT	PROPOSED W13-1 18x18 STA. 56+24 RT	15b	EXISTING (NONE)	
4b	EXISTING (TO REMAIN)		10	EXISTING (R) R2-1 30x36 STA. 59+16 LT	PROPOSED R2-1 24x30 STA. 59+16 LT			PROPOSED D3-1 GREEN RETROREFLECTIVE VARx12 STA. 61+41 LT
5	EXISTING (R) R7-1 (MOD) 12x18 STA. 45+67 LT	PROPOSED R7-1 (MOD) 12x18 STA. 45+67 LT						

NOTES:
 ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC.
 ALL D3-1 STREET SIGNS AND SPECIAL SIGNS SHALL BE SUBMITTED TO THE VILLAGE FOR APPROVAL PRIOR TO FABRICATION.
 ALL SIGNS SHALL BE INSTALLED ON NEW METAL POSTS UNLESS OTHERWISE NOTED.

LEGEND	
	SIGN ASSEMBLY
	PROPOSED SIGN ASSEMBLY
①	LINE 4" (WHITE SOLID EDGE LINE)
②	LINE 4" (DOUBLE YELLOW SOLID AT 11" C-C)
③	LINE 4" (YELLOW - 10' DASH, 30' SKIP)
④	LINE 6" (WHITE SOLID LANE LINE)
⑤	LINE 12" (YELLOW DIAGONAL LINE AT 45° EQUALLY SPACED)
⑥	LETTERS AND SYMBOLS (TYP.)

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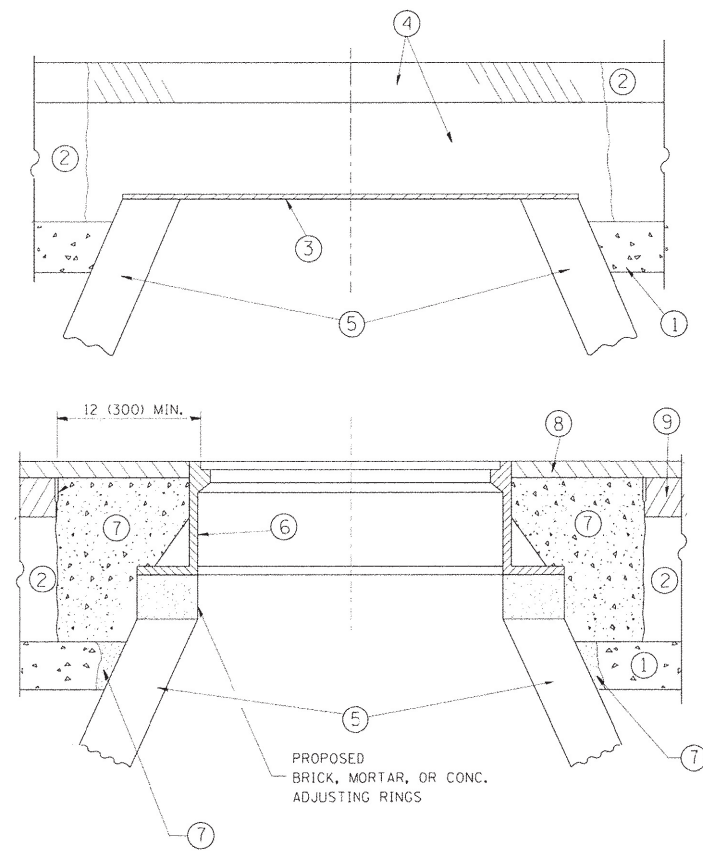
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STATE OF ILLINOIS
 DEPARTMENT OF TRANSPORTATION

ROADWAY, PAVEMENT MARKING & SIGNAGE PLAN

SCALE: 1"=50' SHEET OF SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
200	15-00007-00-RS	LAKE	13	6
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61000	



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 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 ENGINEER."

LEGEND

- ① SUB-BASE GRANULAR MATERIAL
- ② EXISTING PAVEMENT
- ③ 36 (900) DIAMETER METAL PLATE
- ④ PROPOSED CRUSHED STONE AND HMA SURFACE MIX
- ⑤ EXISTING STRUCTURE
- ⑥ FRAME AND LID (SEE NOTES)
- ⑦ CLASS PP-1* CONCRETE
- ⑧ PROPOSED HMA SURFACE COURSE
- 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 (SPECIAL)."

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

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

NOTES:

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

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

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

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

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

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

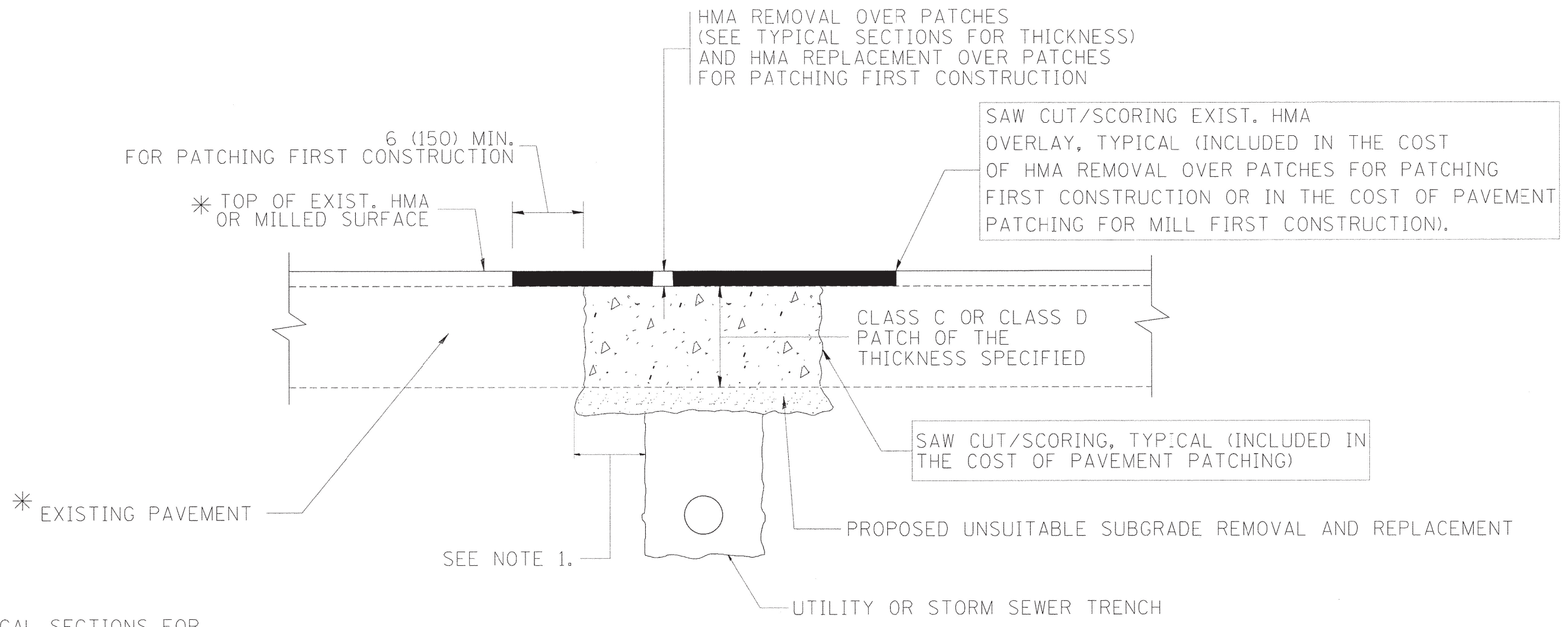
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		CHECKED - CRG	REVISED -
		DATE - 02-25-16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
200	15-00007-00-R5	LAKE	13	7
CONTRACT NO. 61000			ILLINOIS FED. AID PROJECT	



* SEE TYPICAL SECTIONS FOR THICKNESS AND MATERIALS

NOTES:

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

SEQUENCE OF CONSTRUCTION (PATCHING FIRST)

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

SEQUENCE OF CONSTRUCTION (MILLING FIRST)

1. MILL HMA FIRST IF THERE IS AT LEAST 4 1/2 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.

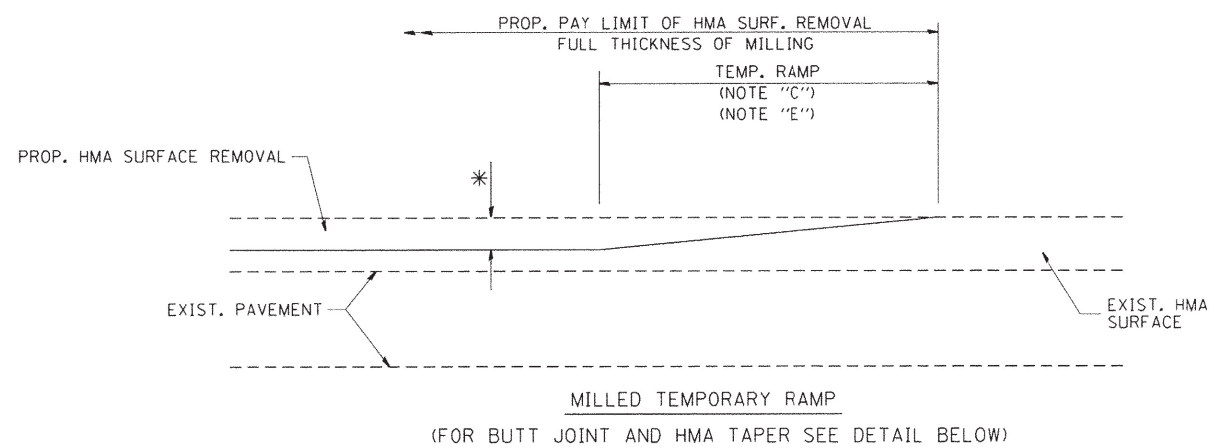
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

PAVEMENT PATCHING FOR HMA SURFACED PAVEMENT

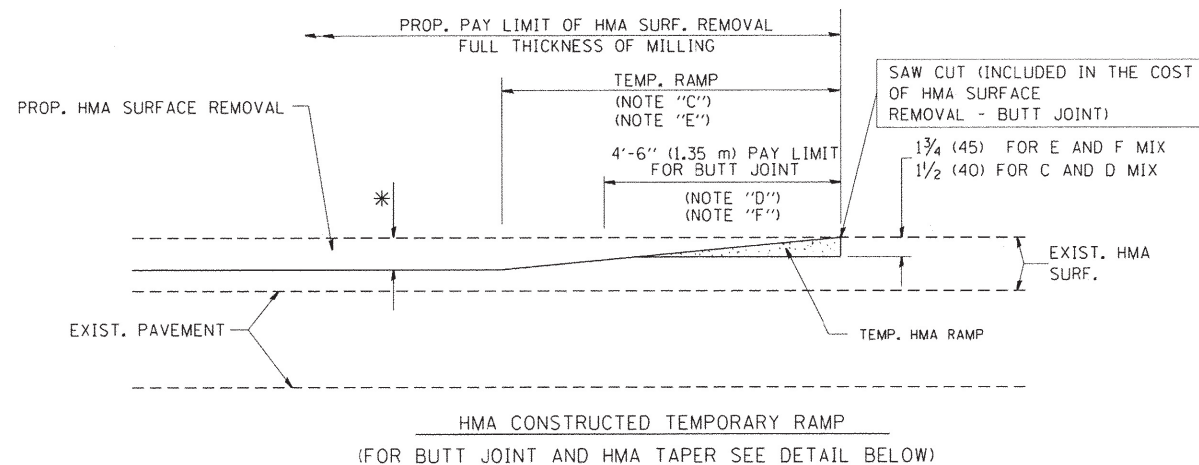
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MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
200	I5-00007-00-RS	LAKE	13	8
ILLINOIS FED. AID PROJECT			CONTRACT NO. 61000	

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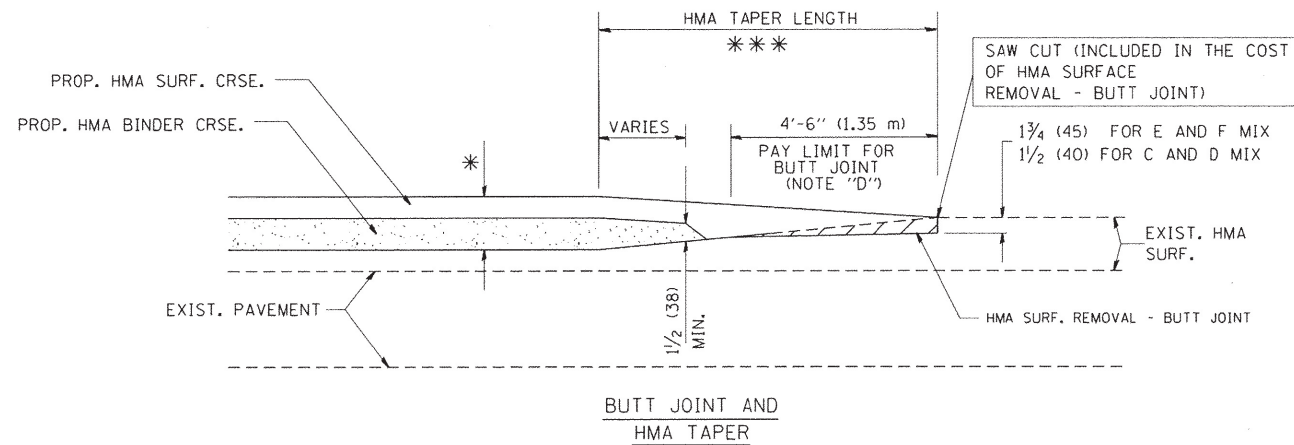


OPTION 1

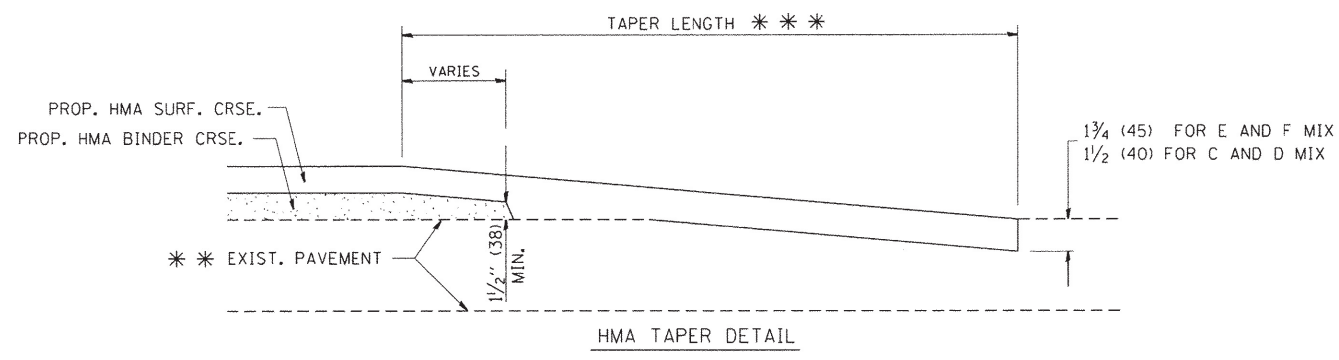
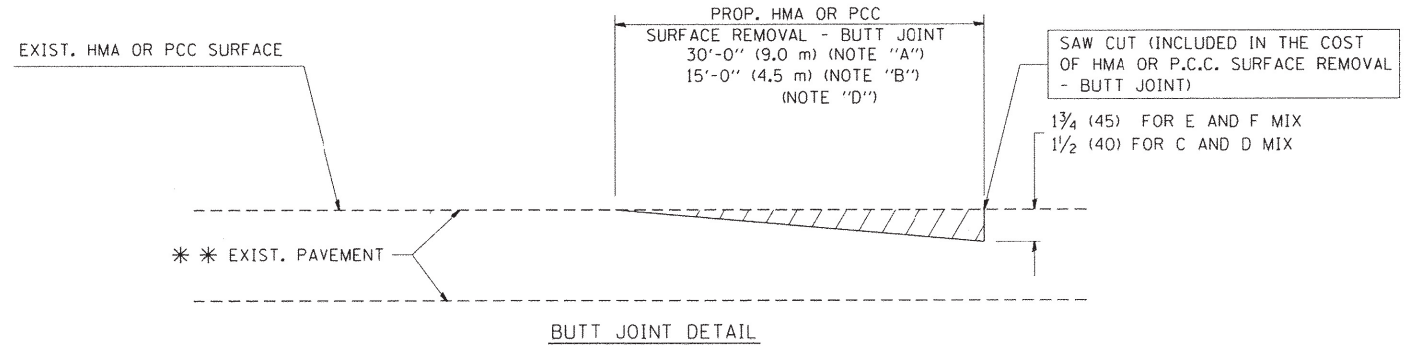


OPTION 2

TYPICAL TEMPORARY RAMP



TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING



TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

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

NOTES

- A: MAINLINE ROADWAYS AND MAJOR SIDE ROADS.
 - B: MINOR SIDE ROADS.
 - C: THE TEMP. RAMP SHALL BE CONSTRUCTED IMMEDIATELY UPON REMOVAL OF THE EXISTING HMA SURFACE.
 - D: THE BUTT JOINT SHALL BE CONSTRUCTED IMMEDIATELY PRIOR TO PLACING THE PROPOSED HMA COURSES.
 - E: TAPER THE TEMP. RAMP AT A RATE OF 3'-0" (900 mm) PER 1 INCH (25 mm) OF MILLING THICKNESS.
 - F: INSTALLATION AND REMOVAL OF THE 4'-6" (1.35 m) TEMP. RAMP IS INCLUDED IN COST OF HMA SURFACE REMOVAL - BUTT JOINT
 - G: SEE ARTICLE 406.08 AND 406.14 OF THE STANDARD SPECIFICATIONS FOR "HMA AND/OR PCC SURFACE REMOVAL, BUTT JOINT".
- * SEE TYPICAL SECTIONS FOR MILLING THICKNESS.
- *** 20'-0" (6.1 m) PER 1 (25) RESURFACING (NOTE "A")
10'-0" (3.0 m) PER 1 (25) RESURFACING (NOTE "B")

BASIS OF PAYMENT:

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".

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

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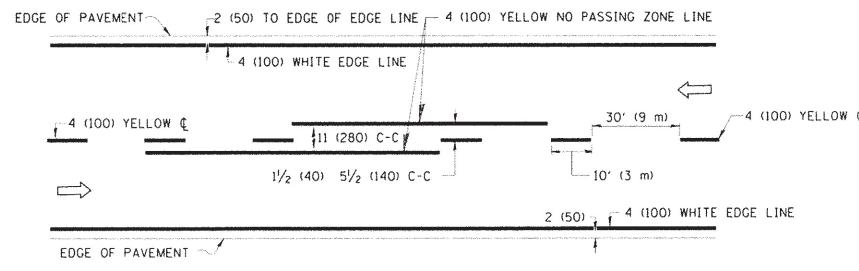
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	DATE - 02-25-16	REVISED -

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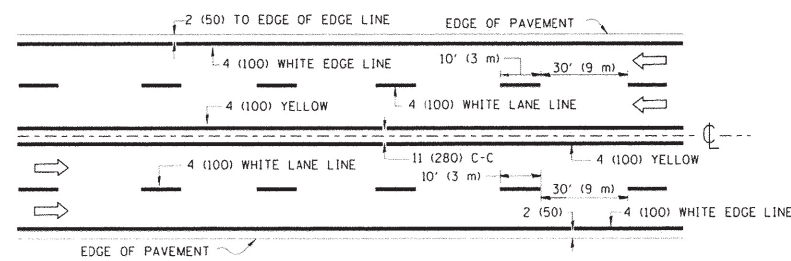
BUTT JOINT AND HMA TAPER DETAILS

SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO	STA.
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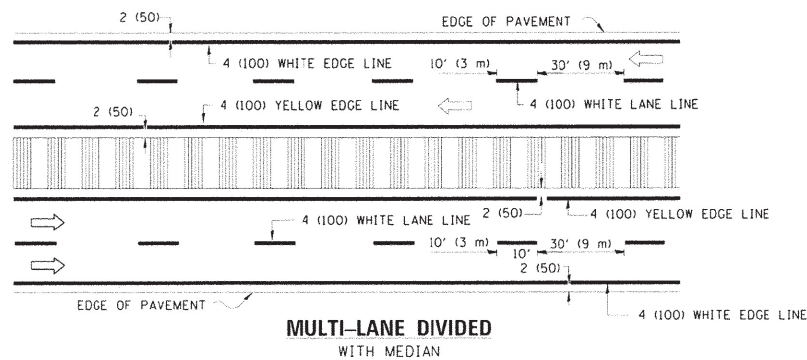
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200	15-00007-00-RS	LAKE	13	9
CONTRACT NO. 6ID00				
ILLINOIS FED. AID PROJECT				



2-LANE ROADWAY

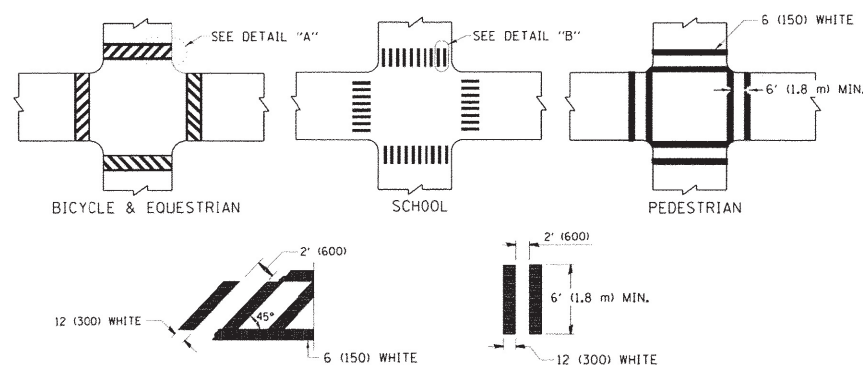


MULTI-LANE UNDIVIDED



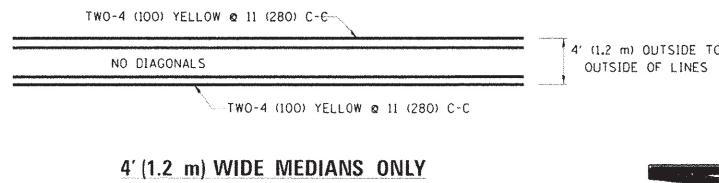
MULTI-LANE DIVIDED WITH MEDIAN

TYPICAL LANE AND EDGE LINE MARKING

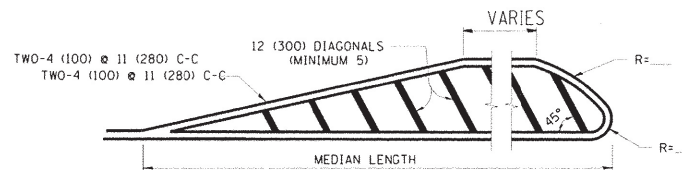


DETAIL "A" TYPICAL CROSSWALK MARKING

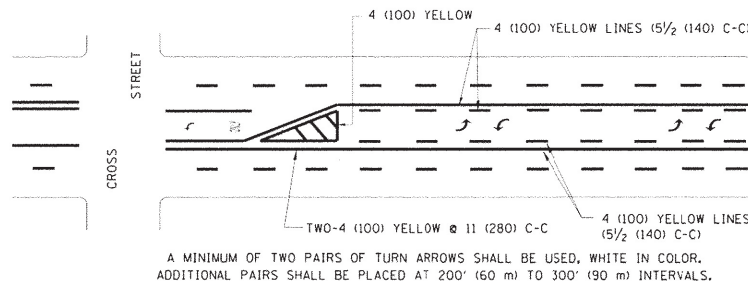
* MARKINGS SHALL BE INSTALLED PARALLEL TO THE CENTERLINE OF THE ROAD WHICH IT CROSSES



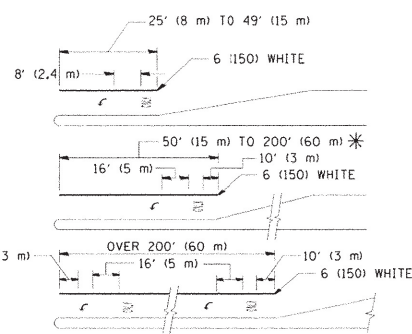
4' (1.2 m) WIDE MEDIANS ONLY



MEDIANS OVER 4' (1.2 m) WIDE

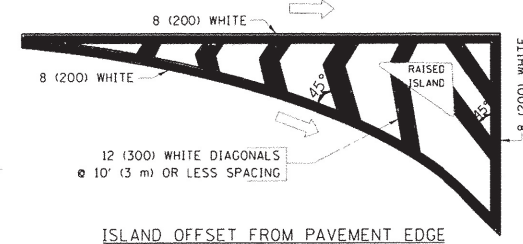


MEDIAN WITH TWO-WAY LEFT TURN LANE TYPICAL PAINTED MEDIAN MARKING

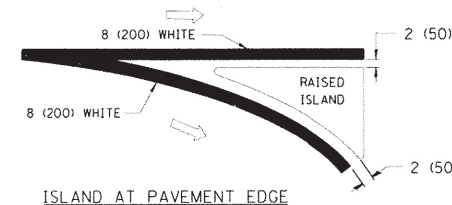


TYPICAL LEFT (OR RIGHT) TURN LANE

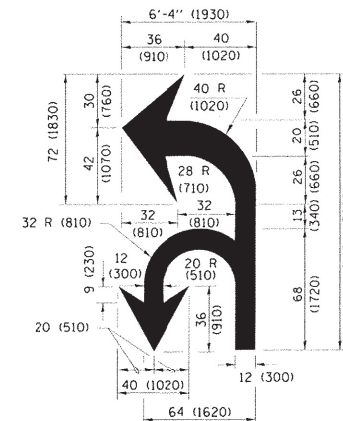
TYPICAL TURN LANE MARKING



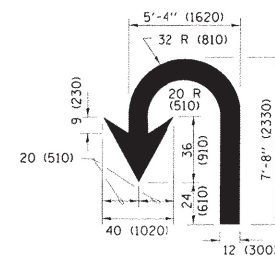
ISLAND OFFSET FROM PAVEMENT EDGE



ISLAND AT PAVEMENT EDGE TYPICAL ISLAND MARKING



COMBINATION LEFT AND U-TURN



U-TURN

LANE REDUCTION TRANSITION

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

D(FT)	SPEED LIMIT
345	30
425	35
500	40
580	45
665	50
750	55

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 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 @ 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" 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 m ²) EACH "X"=54.0 SQ. FT. (5.0 m ²)
SHOULDER DIAGONALS (REQUIRED FOR SHOULDERS ≥ 8')	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))
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 =
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USER NAME = MHAMILTON
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PLOT DATE = April 19, 2016 - 07:13

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DRAWN - MH
CHECKED - CRG
DATE - 02-25-16

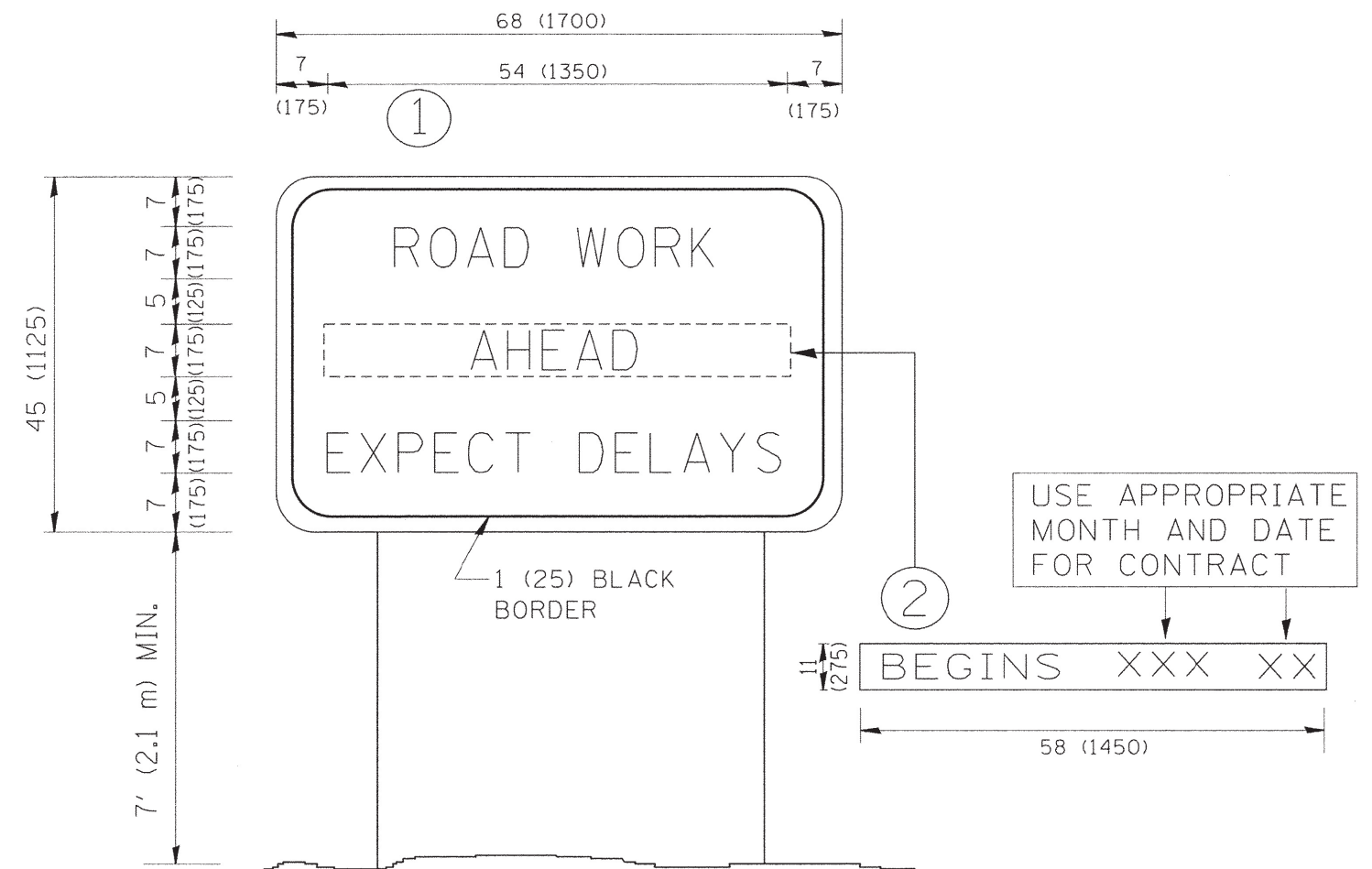
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

DISTRICT ONE TYPICAL PAVEMENT MARKINGS

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
200	IS-00007-00-RS	LAKE	13	10
CONTRACT NO. 61D00				
ILLINOIS FED. AID PROJECT				



NOTES:

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

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

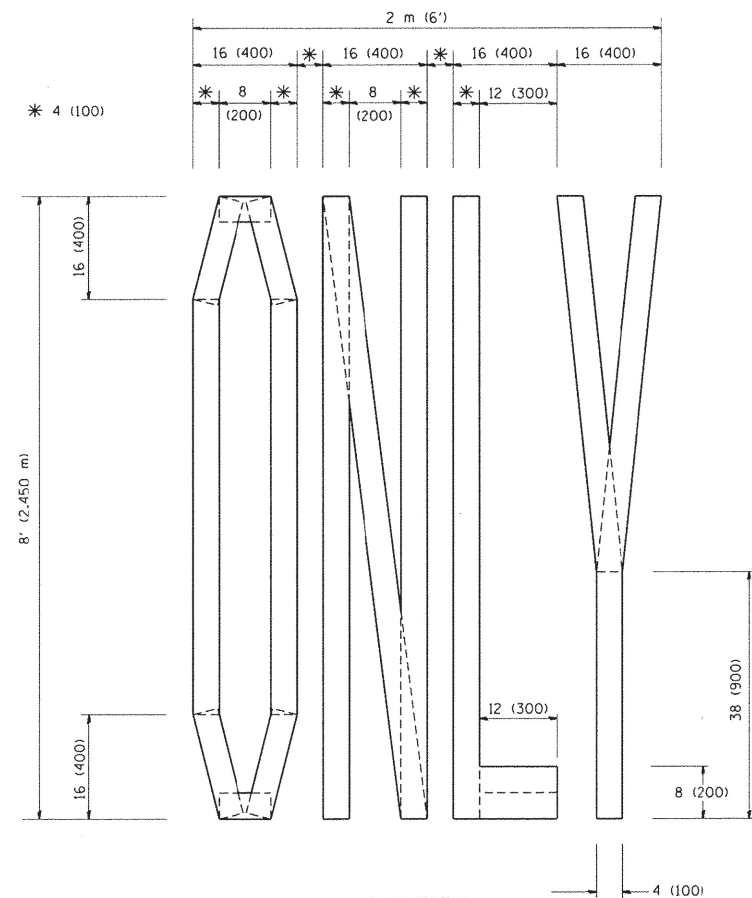
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STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

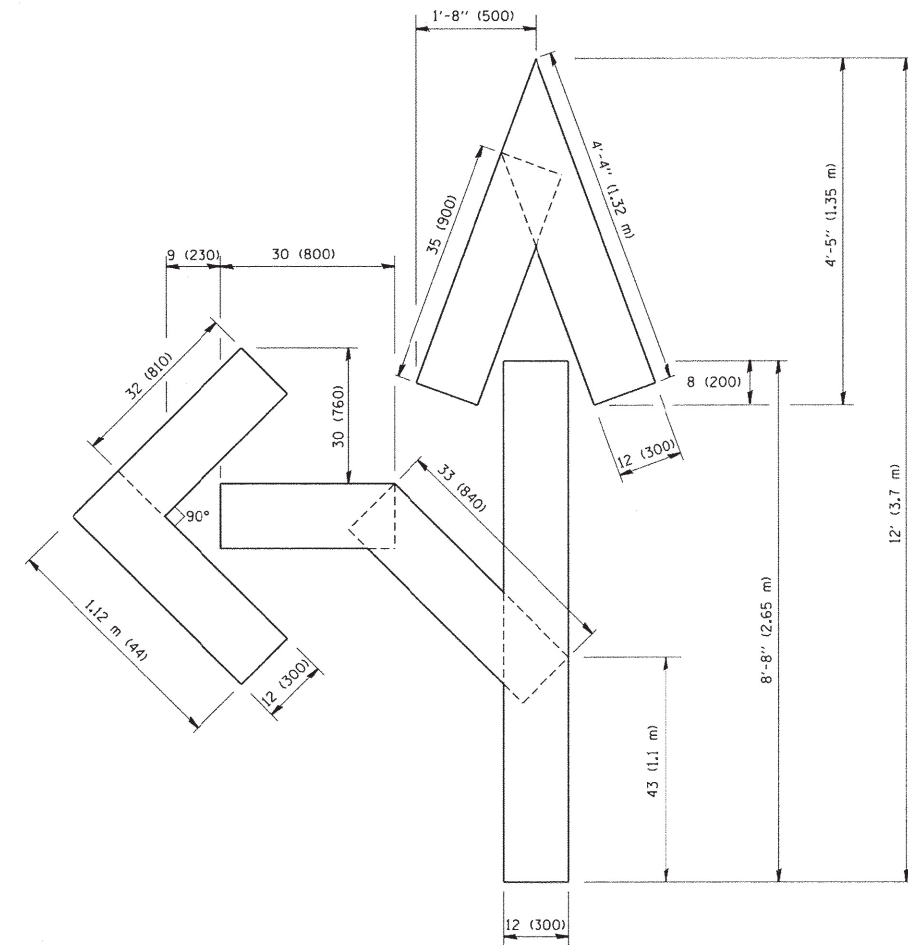
ARTERIAL ROAD INFORMATION SIGN

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

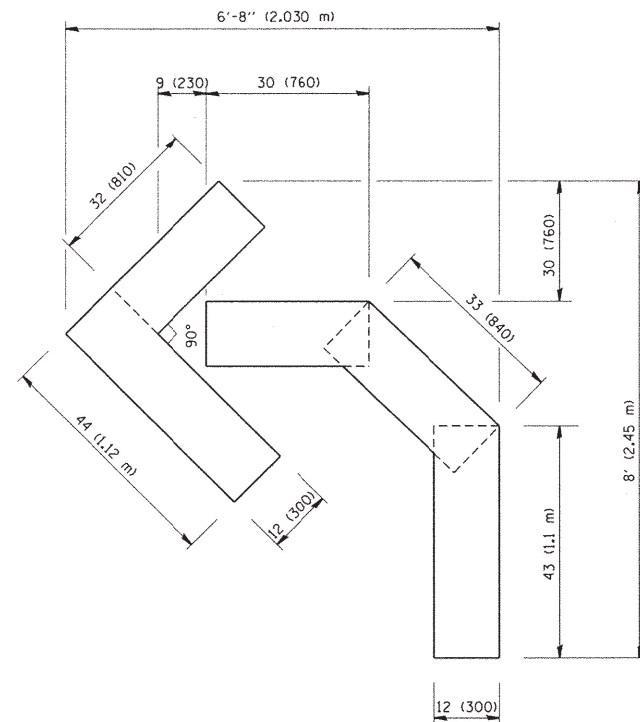
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200	I5-00007-00-RS	LAKE	13	11
CONTRACT NO. 61D00				
ILLINOIS FED. AID PROJECT				



QUANTITY
 4 (100) LINE = 64.1 ft. (19.7 m)
 21.1 sq. ft. (1.97 sq. m)



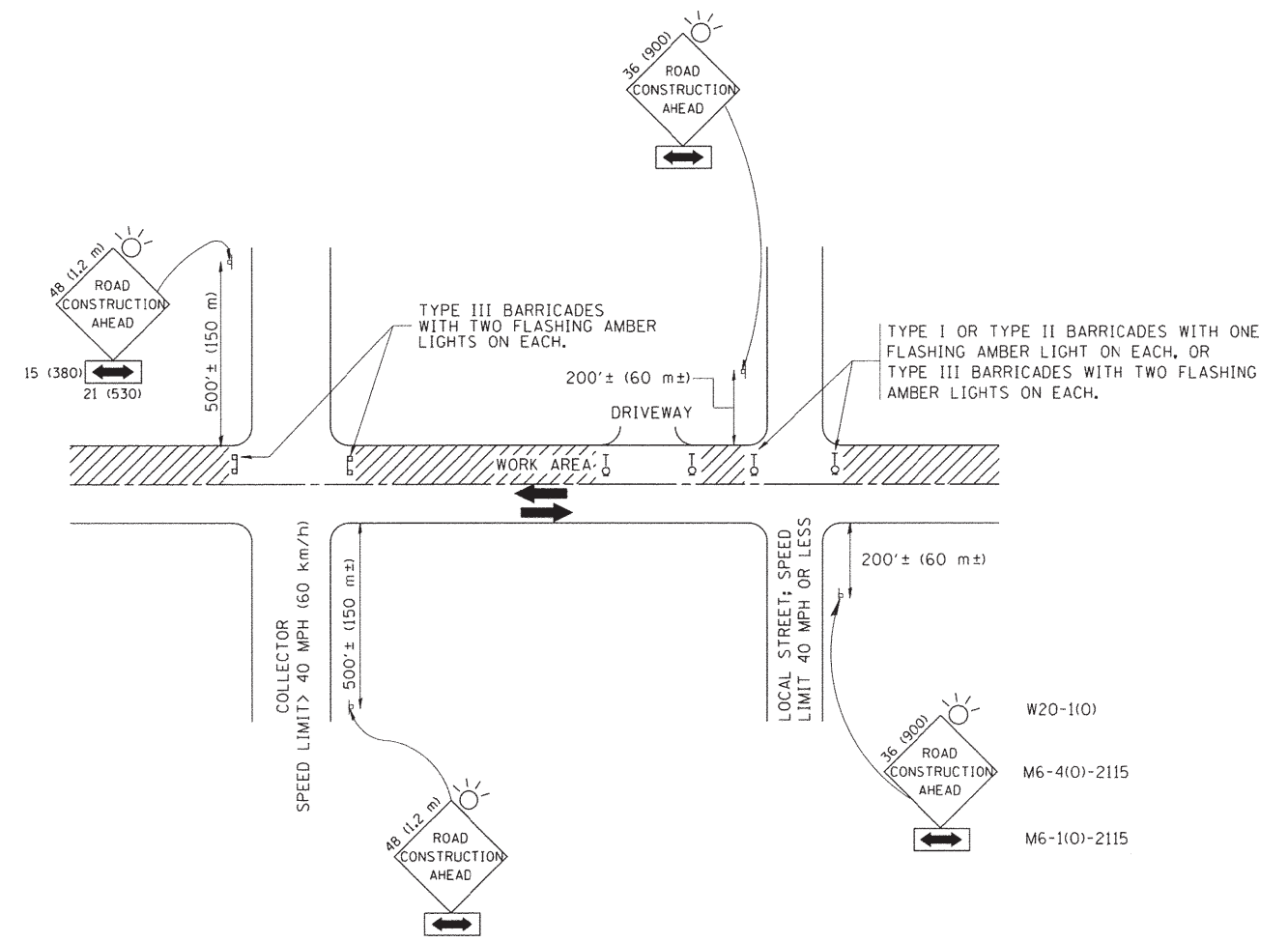
QUANTITY
 4 (100) LINE = 82.5 ft. (25.3 m)
 27.5 sq. ft. (2.53 sq. m)



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

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

FILE NAME = P:\Vol127\dwg\Eng\Final Drawings\Plan Set\07-13 DETAILS.dwg	USER NAME = MHAMILTON	DESIGNED - ATL	REVISED -	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	PAVEMENT MARKING LETTERS AND SYMBOLS FOR TRAFFIC STAGING				MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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	PLOT DATE = April 19, 2016 - 07:13	CHECKED - CRG	REVISOR -						CONTRACT NO. 61000				ILLINOIS FED. AID PROJECT
	DATE - 02-25-16	REVISOR -			SCALE: N.T.S.	SHEET	OF	SHEETS	STA.	TO	STA.		



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

NOTES:

A. FOR NO LANE RESTRICTION ON THE SIDE ROAD OR DRIVEWAYS

1. SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:

a) ONE **ROAD CONSTRUCTION AHEAD** SIGN 36 x 36 (900x900) WITH A FLASHER AND FLAG MOUNTED ON IT APPROXIMATELY 200' (60 m) IN ADVANCE OF THE MAIN ROUTE.

b) THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE I, TYPE II OR TYPE III BARRICADES, 1/3 OF THE CROSS SECTION OF THE CLOSED PORTION.

2. SIDE ROAD WITH A SPEED LIMIT 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. 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).

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

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

C. ADVANCE WARNING SIGNS ARE TO BE OMITTED ON DRIVEWAY UNLESS OTHERWISE NOTED.

D. THE TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS SHALL BE INCIDENTAL TO THE COST OF SPECIFIED TRAFFIC CONTROL STANDARDS OR ITEMS.

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

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		CHECKED - CRG	REVISED -
		DATE - 02-25-16	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

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

SCALE: N.T.S. SHEET OF SHEETS STA. TO STA.

MUN. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
200	15-00007-00-RS	LAKE	13	13
CONTRACT NO. 61000			ILLINOIS FED. AID PROJECT	