

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2794	09-00104-00-RS	COOK	14	1

CONTRACT NO. 63459



LOCATION OF SECTION INDICATED THUS: - [thick black line] -

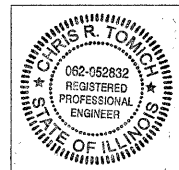
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED: March 11, 2010
Ch. R. T.
VILLAGE OF MORTON GROVE, VILLAGE ENGINEER

PASSED: March 31, 2010
Ch. R. T.
DISTRICT ENGINEER OF LOCAL ROADS AND STREETS

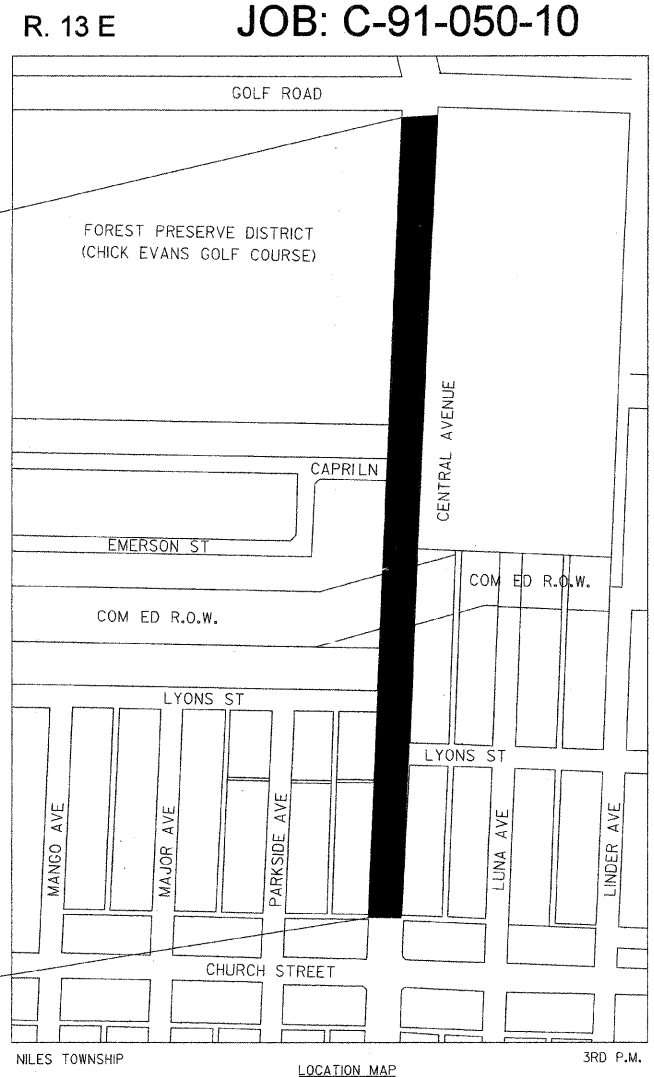
RELEASING FOR BID BASED ON LIMITED
REVIEW: April 1, 2010
Diane M. O'Hea
DEPUTY DIRECTOR OF HIGHWAYS, REGION ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS



Ch. R. T.
REGISTERED P.E. STATE OF ILLINOIS
11-30-2011
EXPIRATION DATE

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS
PLANS FOR PROPOSED FEDERAL AID HIGHWAY
FAU ROUTE 2794 (CENTRAL AVENUE)
FROM FAU ROUTE 1313 (CHURCH STREET)
TO FAU ROUTE 1312 (GOLF ROAD)
RESURFACING
SECTION: 09-00104-00-RS
PROJECT: ARA-9003(471)
VILLAGE OF MORTON GROVE
COOK COUNTY
JOB: C-91-050-10



IMPROVEMENT ENDS
STA. 35+05
CENTRAL AVENUE

IMPROVEMENT BEGINS
STA. 11+59
CENTRAL AVENUE

GROSS PROJECT LENGTH = 2346 FT OR 0.44 MILES
NET PROJECT LENGTH = 2346 FT OR 0.44 MILES

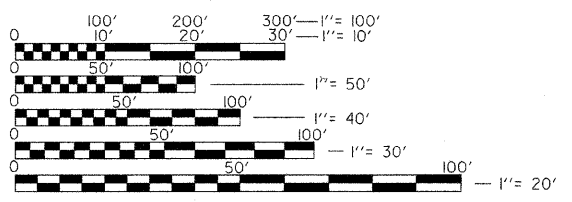
FOR INDEX OF SHEETS, SEE SHEET NO. 2
FOR LIST OF STATE STANDARDS, SEE SHEET NO. 2

TRAFFIC DATA

ADT (2009) = 13,200 VPD
POSTED SPEED 25 MPH

FUNCTIONAL
CLASSIFICATION: COLLECTOR
(URBAN)

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



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.

ASSOCIATE FIELD ENGINEER: KEVIN STALLWORTH, P.E. (847) 705-4169

CONTRACT NO. 63459

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2794	09-00104-00-RS	COOK	14	3
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NUMBER: 63459				

SUMMARY OF QUANTITIES

CODE NO.	ITEM	UNIT	QUANTITY 1000
20101000	TEMPORARY FENCE	FOOT	600
25200110	SODDING, SALT TOLERANT	SQ YD	565
40600100	BITUMINOUS MATERIALS (PRIME COAT)	GALLON	3,000
40600300	AGGREGATE (PRIME COAT)	TON	60
40600400	MIXTURE FOR CRACKS, JOINTS, AND FLANGWAYS	TON	100
40600826	POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	TON	835
40600985	PORTLAND CEMENT CONCRETE SURFACE REMOVAL - BUTT JOINT	SQ YD	600
40603340	HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70	TON	1,305
42300200	PORTLAND CEMENT CONCRETE DRIVEWAY PAVEMENT, 6 INCH	SQ YD	15
42400200	PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH	SQ FT	200
42400800	DETECTABLE WARNINGS	SQ FT	36
44000200	DRIVEWAY PAVEMENT REMOVAL	SQ YD	15
44000600	SIDEWALK REMOVAL	SQ FT	275
44001700	COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT	FOOT	2,415
44003510	MEDIAN REMOVAL PARTIAL DEPTH	SQ FT	14,400
44004610	SIDEWALK REMOVAL & REPLACEMENT (SPECIAL)	SQ FT	375
44201761	CLASS D PATCHES, TYPE I, 10 INCH	SQ YD	30
44201765	CLASS D PATCHES, TYPE II, 10 INCH	SQ YD	525
44201769	CLASS D PATCHES, TYPE III, 10 INCH	SQ YD	65
44201771	CLASS D PATCHES, TYPE IV, 10 INCH	SQ YD	30
60300310	FRAMES AND LIDS TO BE ADJUSTED (SPECIAL)	EACH	3
60404800	FRAMES AND GRATES, TYPE 11	EACH	3
60406100	FRAMES AND LIDS, TYPE 1, CLOSED LID	EACH	14
67100100	MOBILIZATION	L SUM	1
70102625	TRAFFIC CONTROL AND PROTECTION, STANDARD 701606	L SUM	1
70102635	TRAFFIC CONTROL AND PROTECTION, STANDARD 701701	L SUM	1
70300100	SHORT-TERM PAVEMENT MARKING	FOOT	2,100
70301000	WORK ZONE PAVEMENT MARKING REMOVAL	SQ FT	100
* 78000100	THERMOPLASTIC PAVEMENT MARKING - LETTERS & SYMBOLS	SQ FT	78
* 78000200	THERMOPLASTIC PAVEMENT MARKING - LINE 4"	FOOT	10,000
* 78000400	THERMOPLASTIC PAVEMENT MARKING - LINE 6"	FOOT	450
* 78000600	THERMOPLASTIC PAVEMENT MARKING - LINE 12"	FOOT	260
* 78000650	THERMOPLASTIC PAVEMENT MARKING - LINE 24"	FOOT	50
* 78100100	RAISED REFLECTIVE PAVEMENT MARKER	EACH	230
* 88600600	DETECTOR LOOP REPLACEMENT	FOOT	305
X0321020	PORTLAND CEMENT CONCRETE SURFACE REMOVAL (COLD MILLING) VARIABLE DEPTH	SQ YD	3,740
XX003829	DRIVEWAY APPROACH REMOVAL & REPLACEMENT	SQ YD	60
Z0017400	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED	EACH	32
Z0017700	DRAINAGE & UTILITY STRUCTURES TO BE RECONSTRUCTED	EACH	3

* = SPECIALTY ITEMS

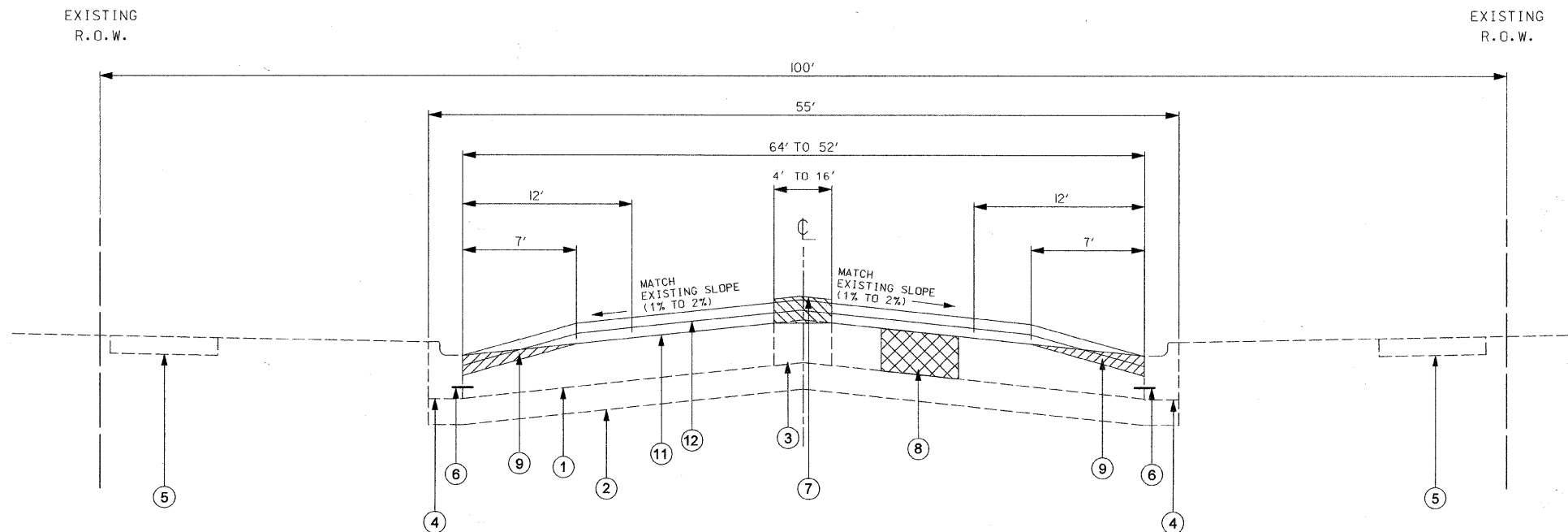
REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF MORTON GROVE
F.A.U. 2794 (CENTRAL AVENUE)
SUMMARY OF QUANTITIES

SCALE: VERT. DRAWN BY: JFG
 HORIZ. CHECKED BY: CRT
DATE: 3/11/10

PLOT DATE * STATES
FILE NAME * FILES
PLOT SCALE * SCALES
USER NAME * USERS

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2794	09-00104-00-RS	COOK	14	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NUMBER: 63459				



EXISTING & PROPOSED TYPICAL SECTION
STA 11+59 TO STA 35+05, CENTRAL AVENUE

LEGEND

- ① EXISTING PCC PAVEMENT (10")
- ② EXISTING BASE
- ③ EXISTING P.C.C. MEDIAN
- ④ EXISTING COMBINATION CONCRETE CURB & GUTTER, TYPE B-6.12
- ⑤ EXISTING CONCRETE SIDEWALK (THICKNESS VARIES 5", 6", OR 8")
- ⑥ EXISTING TIE BAR TO REMAIN IN PLACE (SEE SPECIAL PROVISIONS)
- ⑦ PROPOSED MEDIAN REMOVAL PARTIAL DEPTH
- ⑧ CLASS D PATCHES, 10"
- ⑨ PROPOSED PORTLAND CEMENT CONCRETE SURFACE REMOVAL (COLD MILLING) VARIABLE DEPTH (0" - 2-1/4") (TYP.)
- ⑩ NOT USED
- ⑪ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 (1")
- ⑫ PROPOSED HOT MIX ASPHALT SURFACE COURSE, MIX D, N70 (1-1/2")

CONTRACTOR SHALL MILL BEFORE PATCHING

HMA MIXTURE REQUIREMENTS	
MXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5mm); 1-1/2"	4% @ 70 GYR
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50; 1"	4% @ 50 GYR
Patching	
CLASS D PATCHES, (HMA BINDER IL-19mm) 10"	4% @ 70 GYR
Driveway	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL 9.5 mm)	4% @ 50 GYR
DRIVEWAY APPROACH REMOVAL & REPLACEMENT	4% @ 50 GYR

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

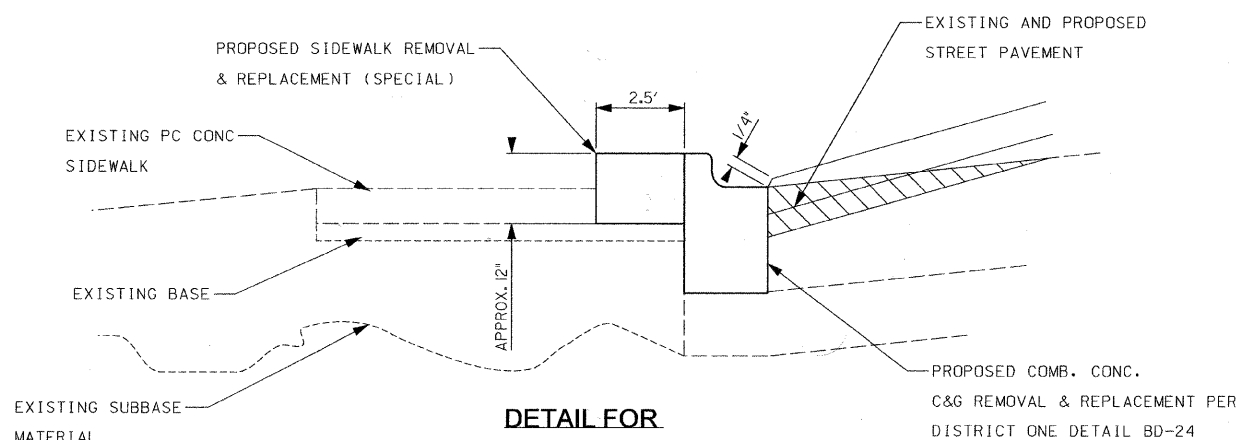
THE "AC TYPE" FOR POLYMERIZED HMA MIXES SHALL BE "SBS/SBR PG 70-22" AND FOR NON-POLYMERIZED HMA THE "AC TYPE" SHALL BE "PG 64-22" UNLESS MODIFIED BY DISTRICT ONE SPECIAL PROVISIONS.

FOR "PERCENT OF RAP" SEE DISTRICT ONE SPECIAL PROVISIONS

NOTE:

1. INTENDED DRIVEWAY WORK INCLUDES REPAIR OF EXISTING RESIDENTIAL DRIVEWAYS WITHIN THE RIGHT-OF-WAY TO MATCH GRADES TO AND/OR REPAIR DAMAGE ASSOCIATED WITH INTERMITTENT CURB AND GUTTER REMOVAL AND REPLACEMENT AS DIRECTED BY THE ENGINEER IN THE FIELD.

CONSTRUCTION DETAILS



DETAIL FOR
SIDEWALK REMOVAL & REPLACEMENT (SPECIAL)
STA 27+00, LT. TO STA. 35+05, LT.

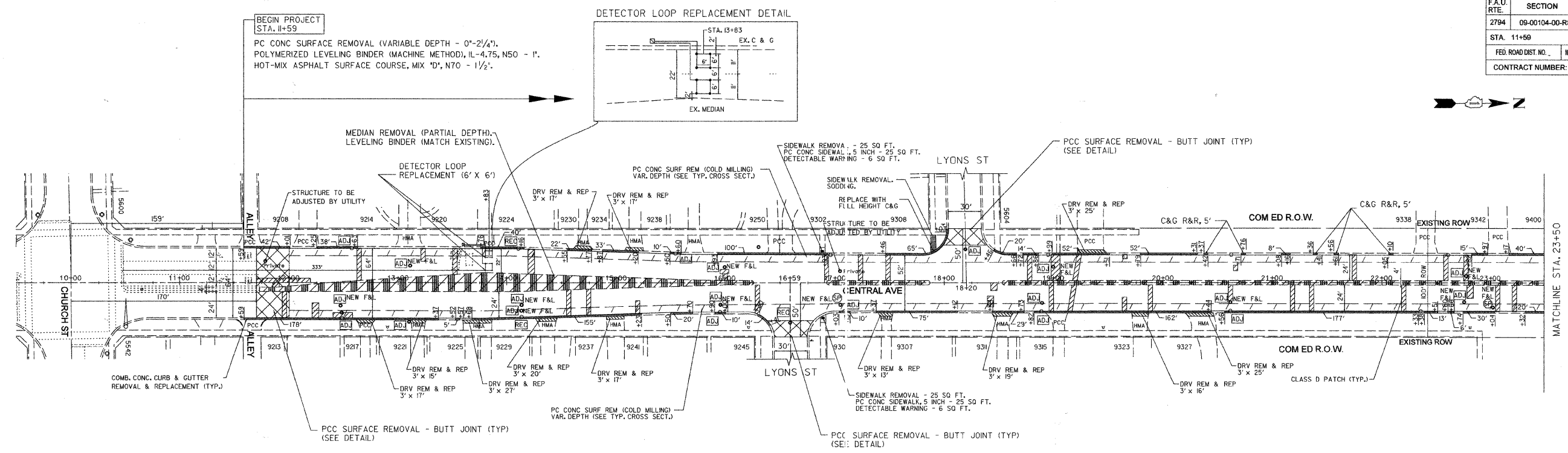
PLOT DATE
FILE NAME
PLOT SCALE
USER NAME

REVISIONS		ILLINOIS DEPARTMENT OF TRANSPORTATION
NAME	DATE	
		VILLAGE OF MORTON GROVE F.A.U. 2794 (CENTRAL AVENUE) EXISTING & PROPOSED TYPICAL CROSS SECTIONS & CONSTRUCTION DETAILS

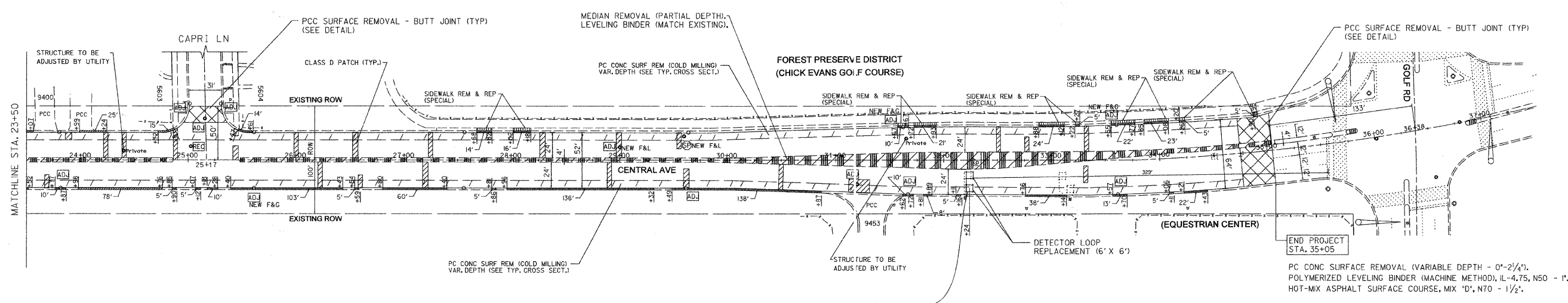
SCALE: VERT. NTS
HORIZ. NTS
DATE: 3/11/10

DRAWN BY: JFG
CHECKED BY: CRT

F.A.U. RTE	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2794	09-00104-00-RS	COOK	14	5
STA. 11+59		TO STA. 35+05		
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
CONTRACT NUMBER: 63459				

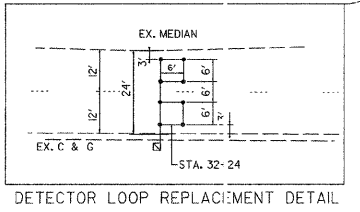


CENTRAL AVENUE
EXISTING CONDITIONS AND PROPOSED IMPROVEMENTS



CENTRAL AVENUE
EXISTING CONDITIONS AND PROPOSED IMPROVEMENTS

- NOTES:**
1. FOR ALL SIDE STREETS, THE RESURFACING LIMITS WILL BE MARKED BY THE ENGINEER IN THE FIELD.
 2. CURB & GUTTER REMOVAL & REPLACEMENT WILL BE MARKED BY THE ENGINEER IN THE FIELD.
 3. CLASS D PATCHES WILL BE MARKED BY THE ENGINEER IN THE FIELD.
 4. P.C.C. SIDEWALK REMOVAL & REPLACEMENT WILL BE MARKED BY THE ENGINEER IN THE FIELD.
 5. DRIVEWAY PAVEMENT REMOVAL & REPLACEMENT WILL BE MARKED BY THE ENGINEER IN THE FIELD.
 6. MEDIAN REMOVAL (PARTIAL DEPTH) WILL BE MARKED BY THE ENGINEER IN THE FIELD.
 7. STRUCTURES TO BE ADJUSTED OR RECONSTRUCTED, OR FRAMES AND LIDS OR GRATES TO BE REPLACED, WILL BE LOCATED BY THE ENGINEER IN THE FIELD.



LEGEND

	COMBINATION CONCRETE CURB & GUTTER REMOVAL AND REPLACEMENT
	CLASS D PATCHING

REVISIONS	
NAME	DATE

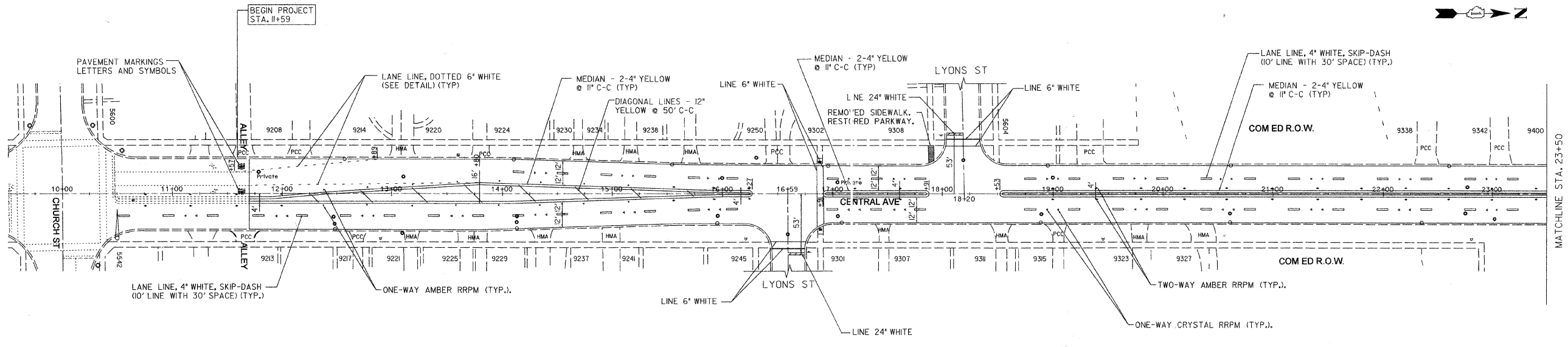
ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF MORTON GROVE
F.A.U. 2794 (CENTRAL AVENUE)
ROADWAY PLANS
STA. 11+59 TO STA. 35+05

SCALE: VERT. 1"=50'
HORIZ. 1"=50'
DATE: 3/11/10

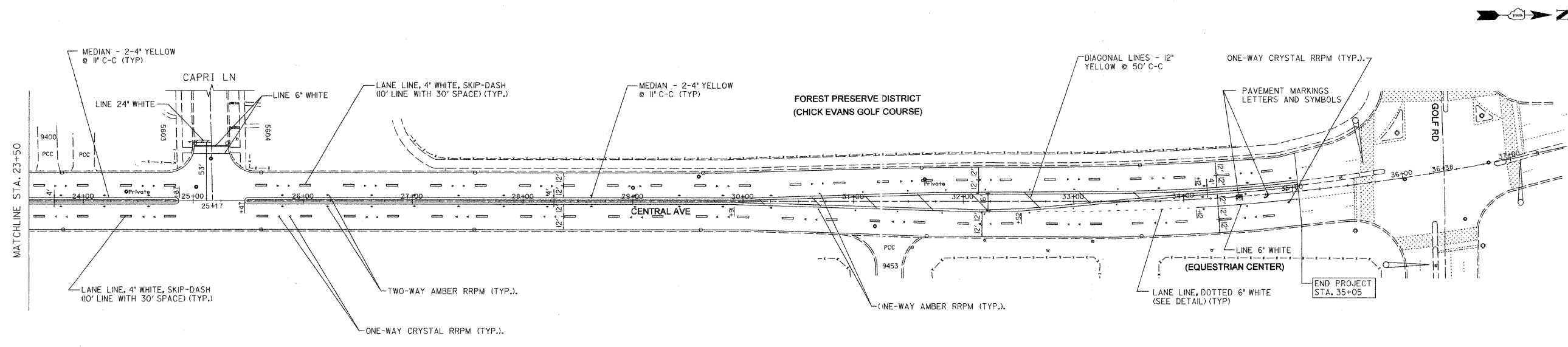
DRAWN BY: JFG
CHECKED BY: CRT

DATE
FILE NAME
PLOT SCALE
SCALE
USER NAME

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2794	09-00104-00-RS	COOK	14	6
STA. 11+59		TO STA. 35+05		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NUMBER: 63459				



CENTRAL AVENUE
PROPOSED PAVEMENT MARKINGS



CENTRAL AVENUE
PROPOSED PAVEMENT MARKINGS

- NOTES:
1. ALL PAVEMENT MARKINGS SHALL BE THERMOPLASTIC UNLESS OTHERWISE SPECIFIED.
 2. SEE DISTRICT ONE RAISED REFLECTIVE PAVEMENT MARKERS DETAIL TC-11 FOR SPACING AND OTHER DETAILS.

REVISIONS	
NAME	DATE

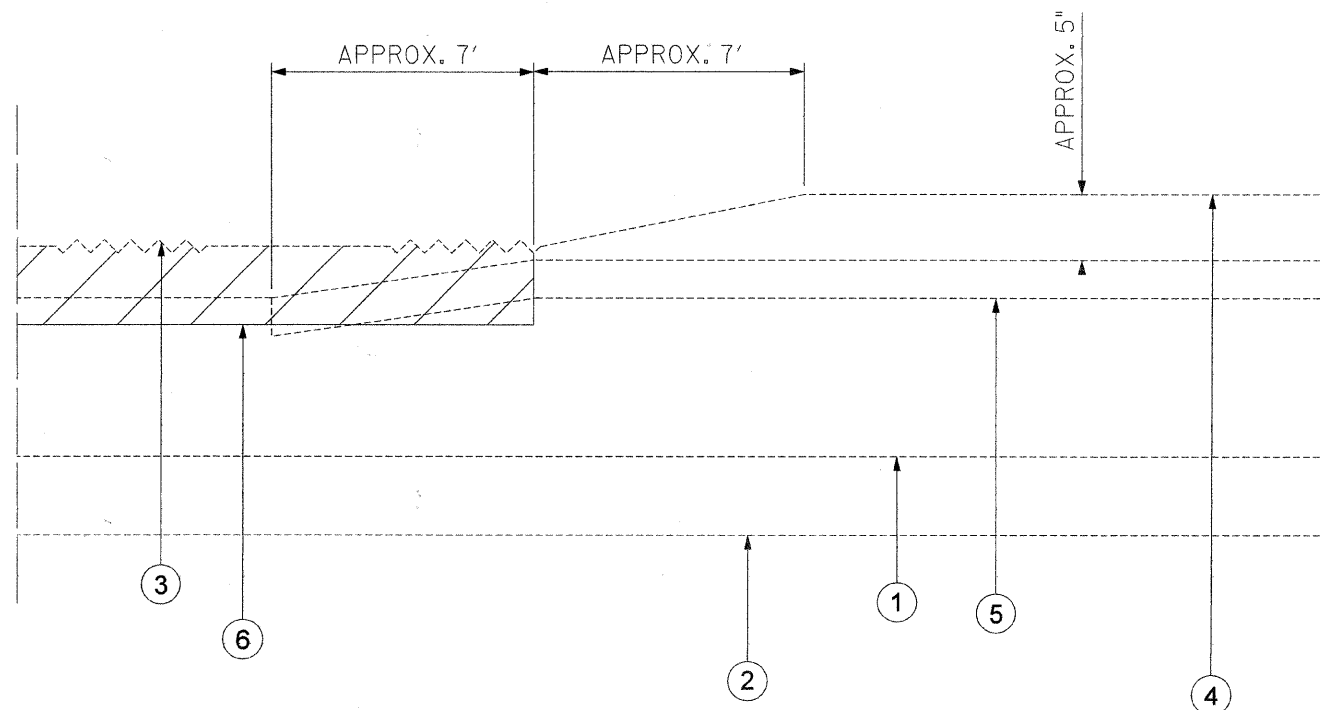
ILLINOIS DEPARTMENT OF TRANSPORTATION
VILLAGE OF MORTON GROVE
F.A.U. 2794 (CENTRAL AVENUE)
PAVEMENT MARKING PLANS

SCALE: VERT. 1"=50'
HORIZ. 1"=50'
DATE: 3/11/10

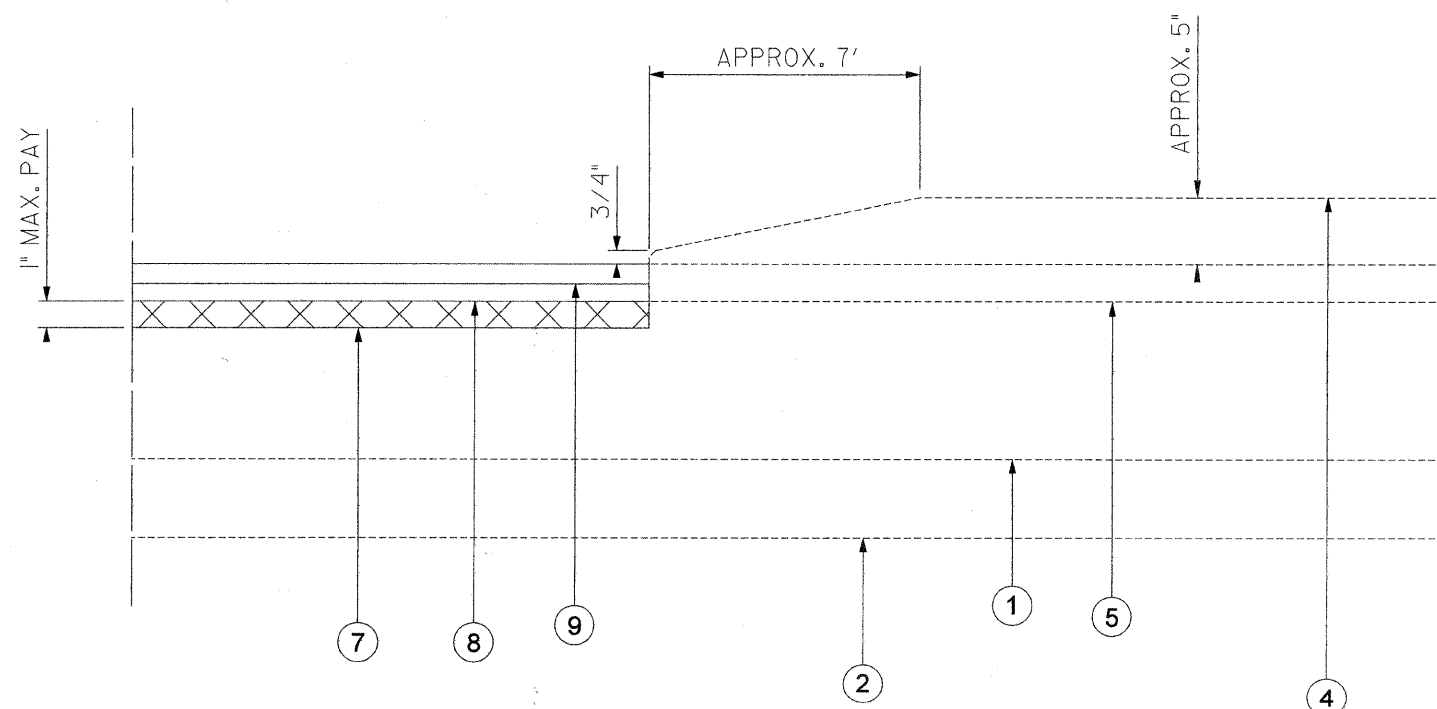
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CHECKED BY: CRT

PLOT DATE
PLOT SCALE
PLOT NAME
USER NAME

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2794	09-00104-00-RS	COOK	14	7
STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NUMBER: 63459				



EXISTING CONDITIONS & PROPOSED MEDIAN REMOVAL PARTIAL DEPTH



PROPOSED RESURFACING
(WITH RAISED CURB MEDIAN TO REMAIN AFTER CORRUGATED
PORTLAND CEMENT CONCRETE MEDIAN REMOVAL PARTIAL DEPTH)

LEGEND

- ① EXISTING PCC PAVEMENT (10")
- ② EXISTING BASE
- ③ EXISTING CORRUGATED PC CONC MEDIAN
- ④ EXISTING RAISED CURB PC CONC MEDIAN
- ⑤ EXISTING HMA SURFACE COURSE
- ⑥ PROPOSED MEDIAN REMOVAL PARTIAL DEPTH
- ⑦ PROPOSED POLYMERIZED LEVELING BINDER (MATCH EXISTING PAVEMENT AND SLOPE)
- ⑧ PROPOSED POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50, (1")
- ⑨ PROPOSED HOT MIX ASPHALT SURFACE COURSE, MIX D, N70 (1-1/2")

NOTES:

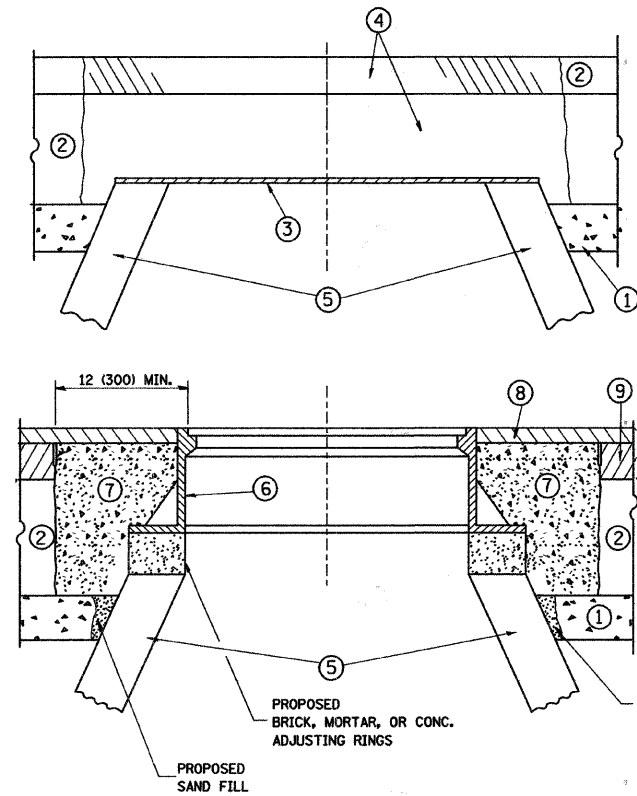
1. THE LIMITS OF MEDIAN REMOVAL PARTIAL DEPTH SHALL BE MARKED BY THE ENGINEER IN THE FIELD.
2. THE MEDIAN REMOVAL PARTIAL DEPTH SHALL NOT EXCEED MORE THAN 1 INCH BELOW THE EXISTING ADJACENT PORTLAND CEMENT CONCRETE PAVEMENT SURFACE.
3. POLYMERIZED LEVELING BINDER USED TO "MATCH EXISTING PAVEMENT AND SLOPE" (SEE LEGEND ITEM #7) SHALL MATCH THE HMA MIXTURE REQUIREMENTS OF, AND WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER TON FOR, POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50.

PLOT DATE * \$DATE
FILE NAME * \$FILEP
USER NAME * \$USER

REVISIONS		NAME	DATE
NO.	DESCRIPTION		

ILLINOIS DEPARTMENT OF TRANSPORTATION	
VILLAGE OF MORTON GROVE	
F.A.U. 2794 (CENTRAL AVENUE)	
PC CONCRETE MEDIAN	
TRANSITION DETAIL	
SCALE: VERT. NTS	DRAWN BY: JFG
HORIZ. NTS	CHECKED BY: CRT
DATE: 3/11/10	

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2794	09-00104-00-RS	COOK	14	8
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS	FED. AID PROJECT	



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 SI CONCRETE, OR HMA SURFACE COURSE OR HMA BINDER COURSE TO THE ELEVATION OF THE SURFACE OF THE EXISTING BASE COURSE OR THE BINDER COURSE.

THE PROCEDURE EXPLAINED ABOVE SHALL CONFORM TO THE APPLICABLE PORTIONS OF SECTIONS 353, 406, 602, AND 603 OF THE STANDARD SPECIFICATIONS.

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 SI CONCRETE, HMA SURFACE COURSE OR HMA BINDER COURSE
- 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: THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER EACH FOR "FRAMES AND LIDS TO BE ADJUSTED, SPECIAL"

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

REVISIONS	
NAME	DATE
R. SHAH	10/25/94
R. SHAH	01/30/95
R. SHAH	03/10/95
A. ABBAS	03/21/97
R. WIEDEMAN	05/14/04
R. BORO	01/01/07

ILLINOIS DEPARTMENT OF TRANSPORTATION
DETAILS FOR FRAMES AND LIDS ADJUSTMENT WITH MILLING

SCALE: VERT. NONE
HORIZ.

DRAWN BY
CHECKED BY

BD600-03 (BD-8)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2794	09-00104-00-RS	COOK	14	9
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

VARIABLE - TO MEET EXISTING DIMENSIONS AND FIELD CONDITIONS (SEE NOTE ②)

PROP. CONC. CURB OR CURB AND GUTTER REPLACEMENT IN ACCORDANCE WITH STATE STANDARD 606001. (SEE NOTE ②)

SAW CUT FULL DEPTH - INCLUDED IN THE COST OF SIDEWALK, DRIVEWAY OR MEDIAN SURFACE REMOVAL PAY ITEM.

SEE STATE STANDARD 606001

18" (450) MAX.

EXISTING OR PROPOSED HMA SURFACE (IF APPLICABLE)

1/4" (5) **

EXISTING SIDEWALK, DRIVEWAY, MEDIAN SURFACE OR GROUND.

PROPOSED SIDEWALK, DRIVEWAY PAVEMENT, MEDIAN SURFACE OR SALT TOLERANT SOD AND TOP SOIL, 4" (100) SOD RESTORATION (SEE NOTE ①).

SUITABLE BACKFILL MATERIAL (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT)

PROPOSED 3/4" (20) PREFORMED EXPANSION JOINT AT CONCRETE SIDEWALKS, DRIVEWAYS, AND MEDIANS. (INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.)

UNSLITABLE SUB-BASE MATERIAL TO BE REMOVED, IF DIRECTED BY THE ENGINEER, SHALL BE REPLACED WITH EITHER SUB-BASE GRANULAR MATERIAL, TYPE B OR ADDITIONAL THICKNESS OF CONCRETE.

REMOVAL AND REPLACEMENT 4" (100) OR LESS IS INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

REMOVAL AND REPLACEMENT IN EXCESS OF 4" (100) WILL BE PAID FOR IN ACCORDANCE WITH ARTICLE 109.04 OF THE STANDARD SPECIFICATIONS.

PROPOSED #6 (20) EPOXY COATED TIE BARS 24" (600) LONG AT 24" (600) CENTER; WILL NOT BE PAID FOR SEPARATELY. DELETE EPOXY COATED TIE BARS IF EXISTING TIE BARS ARE USUABLE AS DETERMINED BY THE ENGINEER. (SEE NOTE ③).

BASIS OF PAYMENT:

THIS WORK WILL BE PAID FOR AT THE CONTRACT UNIT PRICE PER FOOT (METER) FOR "CURB REMOVAL AND REPLACEMENT" OR "COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT".

3" (75) MIN.

* 3" (75) MINIMUM FROM TOP AND BOTTOM OF THE CONCRETE PAVEMENT OR BASE COURSE.

** IF THE FINAL SURFACE OF THE PAVEMENT IS CONCRETE, THE GUTTER IS TO BE FLUSH WITH THE PAVEMENT.

NOTE: ① SIDEWALK, DRIVEWAY PAVEMENT OR MEDIAN SURFACE SHALL BE SIMILAR TO THE MATERIAL BEING REMOVED AND WILL BE PAID FOR SEPARATELY.
SODDING, SALT TOLERANT AND TOP SOIL, FURNISH AND PLACE 4" WILL BE PAID FOR SEPARATELY.

② FERTILIZER FOR THE PLACEMENT OF THE SOD IS NOT REQUIRED

③ CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.

④ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.

⑤ LONGITUDINAL BARS, IF ENCOUNTERED IN THE EXISTING CURB OR CURB AND GUTTER, ARE NOT TO BE REPLACED. CUTTING AND REMOVING LONGITUDINAL BARS SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑥ THE COST OF HMA SURFACE REMOVAL IN THE EXISTING GUTTER FLAG SHALL BE INCLUDED IN THE COST OF THE CURB AND GUTTER REMOVAL AND REPLACEMENT.

⑦ THE REMOVAL AND REPLACEMENT OF THE EXISTING CURB OR CURB AND GUTTER SHALL BE DONE IN ACCORDANCE WITH THE APPLICABLE PORTIONS OF SECTION 440 AND 606 OF THE STANDARD SPECIFICATIONS.

⑧ THE LOCATIONS OF REMOVAL AND REPLACEMENT OF EXISTING CURB OR CURB AND GUTTER SHALL BE DETERMINED BY THE RESIDENT ENGINEER AT THE TIME OF CONSTRUCTION.

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

REVISIONS	
NAME	DATE
A. HOUSEH	03/11/94
R. SHAH	02/24/95
R. SHAH	03/02/95
R. SHAH	08/19/96
R. SHAH	09/12/96
R. SHAH	09/19/96
R. SHAH	10/03/96
A. ABBAS	03/21/97
M. GOMEZ	01/22/01
R. BORO	12/15/09

ILLINOIS DEPARTMENT OF TRANSPORTATION

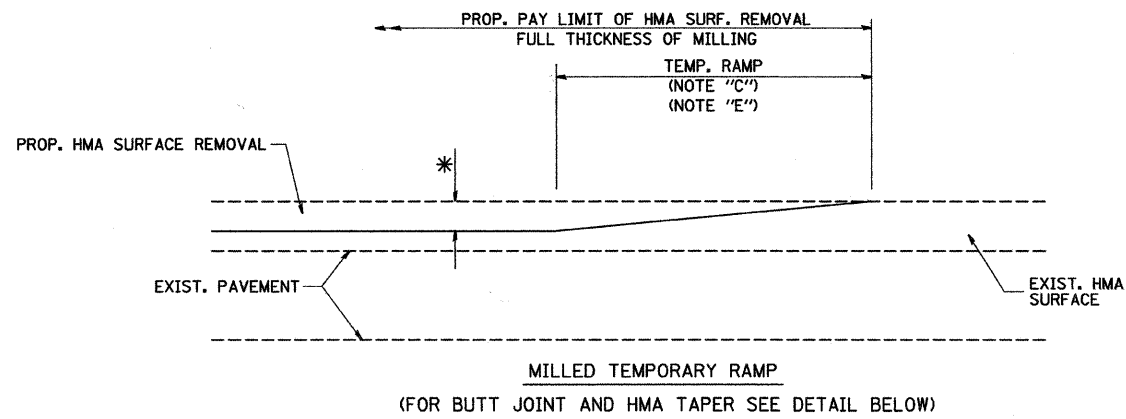
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

SCALE: VERT. NONE
HORIZ.

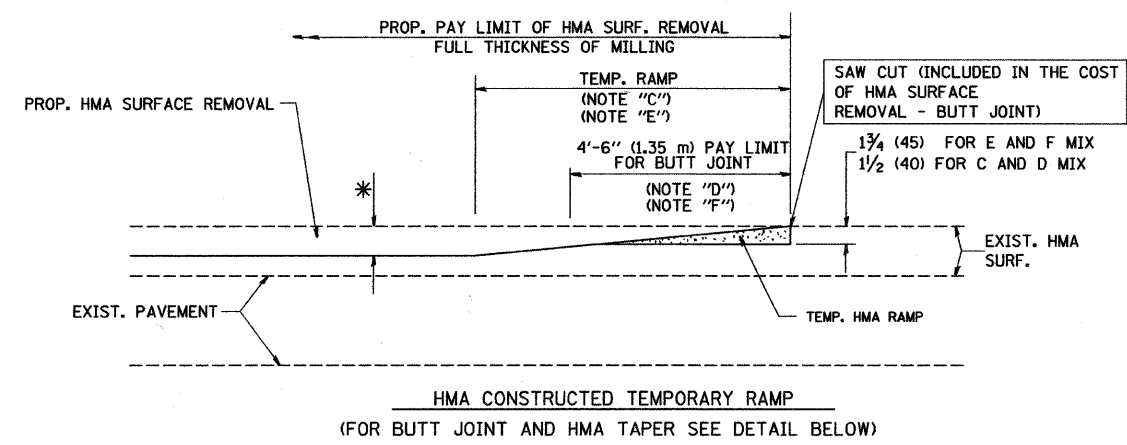
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CHECKED BY
BD600-06 (BD-24)

CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2794	09-00104-00-RS	COOK	14	10
STA.		TO STA.		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

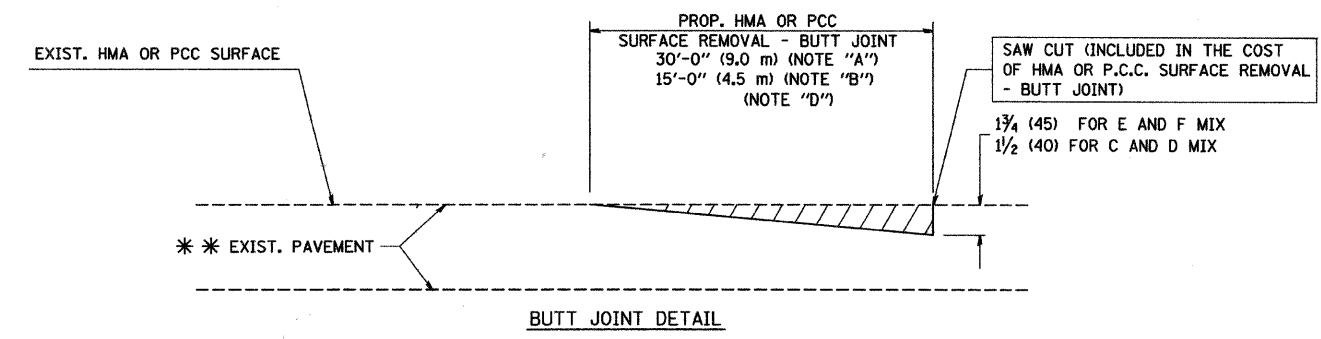


OPTION 1

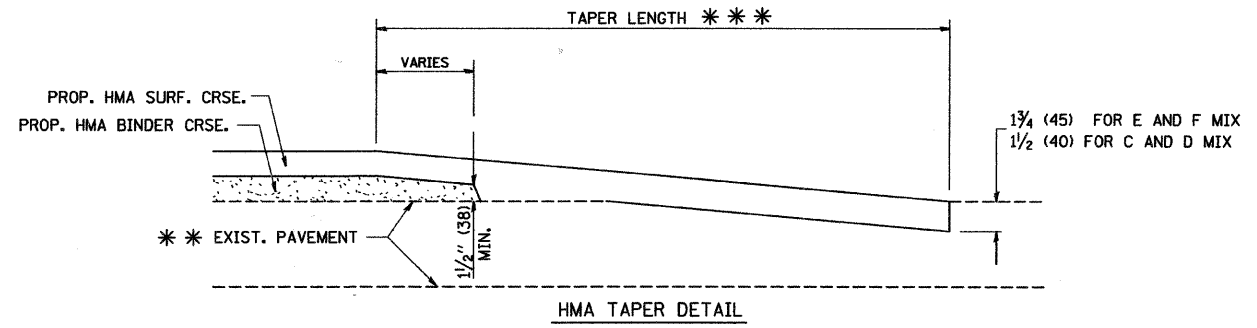


OPTION 2

TYPICAL TEMPORARY RAMP



BUTT JOINT DETAIL



HMA TAPER DETAIL

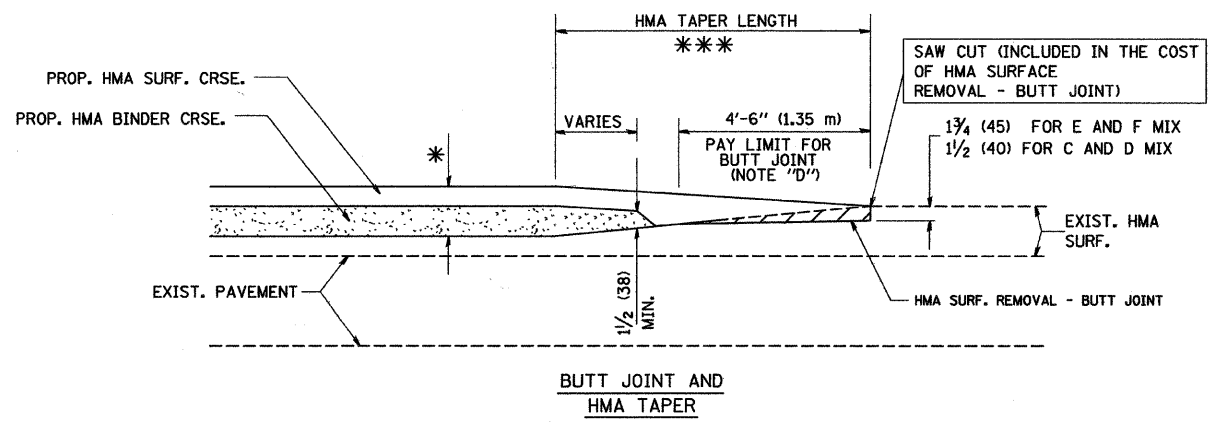
TYPICAL BUTT JOINT AND HMA TAPER FOR RESURFACING ONLY

*** 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")

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



BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

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".

REVISIONS	
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

ILLINOIS DEPARTMENT OF TRANSPORTATION

BUTT JOINT AND HMA TAPER DETAILS

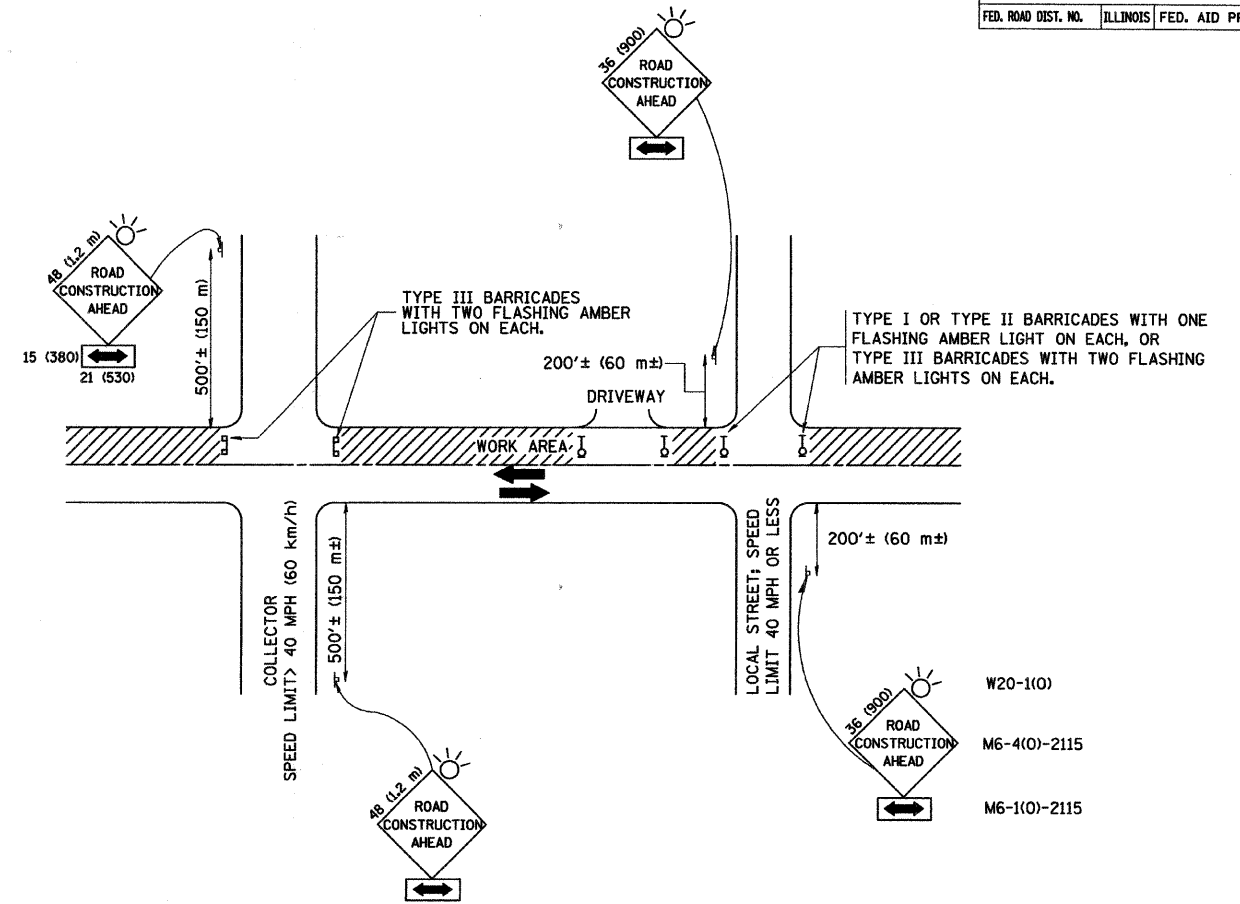
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DRAWN BY
CHECKED BY

BD400-05 (VI-BD32)

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USER NAME = bbornd

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
2794	09-00104-00-RS	COOK	14	11
STA.		TO STA.		
FED. ROAD DIST. NO.		ILLINOIS FED. AID PROJECT		



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

NOTES:

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

- SIDE ROAD WITH A SPEED LIMIT OF 40 MPH (60 km/h) OR LESS AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - 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.
- SIDE ROAD WITH A SPEED LIMIT GREATER THAN 40 MPH (60 km/h) AS SHOWN ON THE DRAWING AND AS DIRECTED BY THE ENGINEER:
 - 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.
 - THE CLOSED PORTION OF THE MAIN ROUTE SHALL BE PROTECTED BY BLOCKING WITH TYPE III BARRICADES, 1/2 OF THE CROSS SECTION OF THE CLOSED PORTION.
- WHEN THE SIDE ROAD LIES BETWEEN THE BEGINNING OF THE MAINLINE SIGNING AND THE WORK ZONE, A SINGLE HEADED ARROW (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.

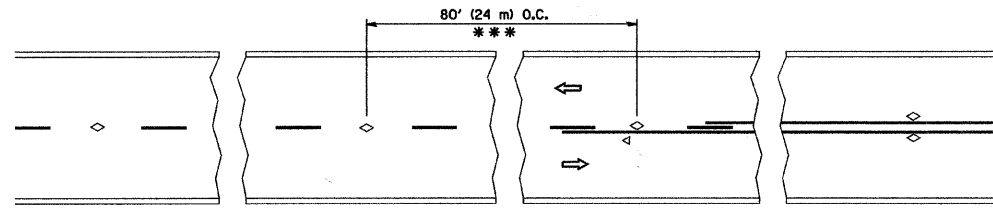
REVISIONS	
NAME	DATE
LHA	6/89
T. RAMMACHER	09/08/94
J. OBERLE	10/18/95
A. HOUSEH	03/06/96
A. HOUSEH	10/15/96
T. RAMMACHER	01/06/00

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TRAFFIC CONTROL AND PROTECTION
 FOR
 SIDE ROADS, INTERSECTIONS, AND
 DRIVEWAYS

SCALE: NONE

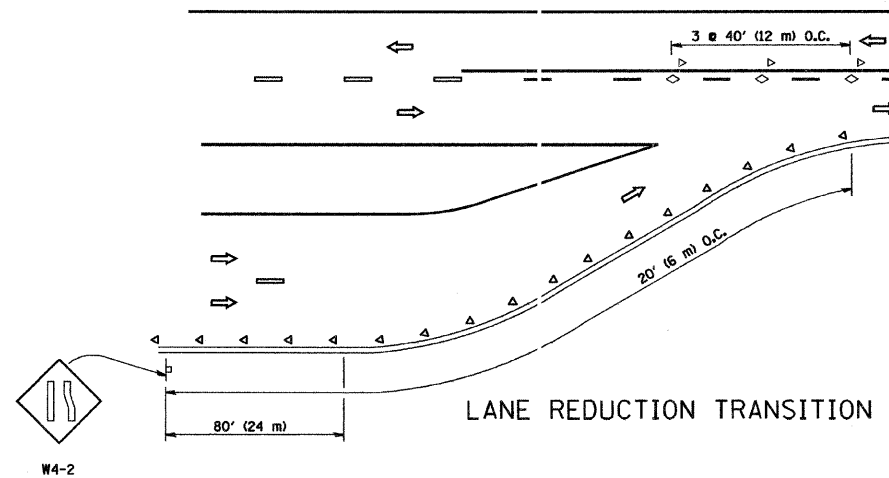
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 CHECKED BY
 TC-10

F.A.I.D. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

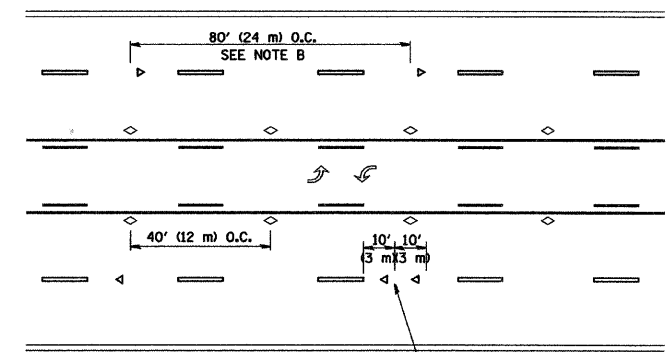


*** REDUCE TO 40' (12 m) O.C. ON CURVES WITH POSTED OR ADVISORY SPEED 45 M.P.H. (70 km/h) OR LESS.

TWO-LANE/TWO-WAY

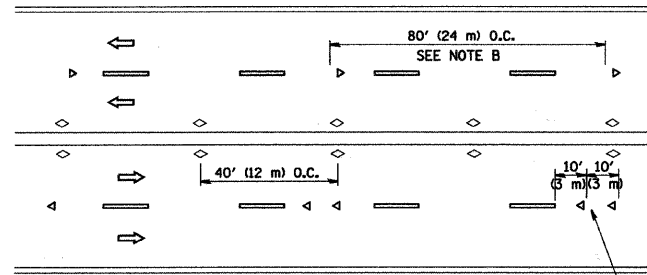


LANE REDUCTION TRANSITION



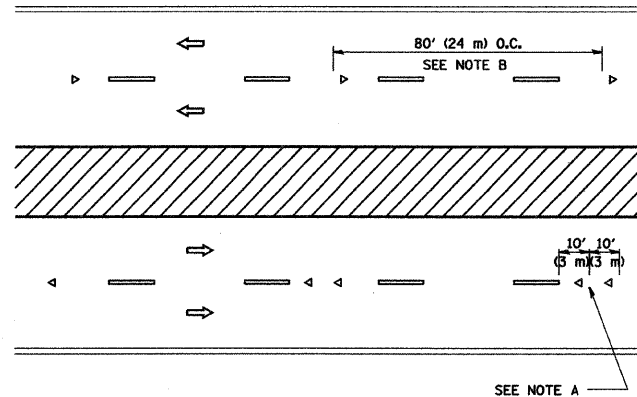
SEE NOTE A

TWO-WAY LEFT TURN



SEE NOTE A

MULTI-LANE/UNDIVIDED



SEE NOTE A

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.
3. MARKERS THROUGH TANGENTS LESS THAN 500' (150 m) IN LENGTH BETWEEN CURVES SHALL BE INSTALLED AT THE LESSER OF THE TWO CURVE SPACINGS.

LANE MARKER NOTES

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

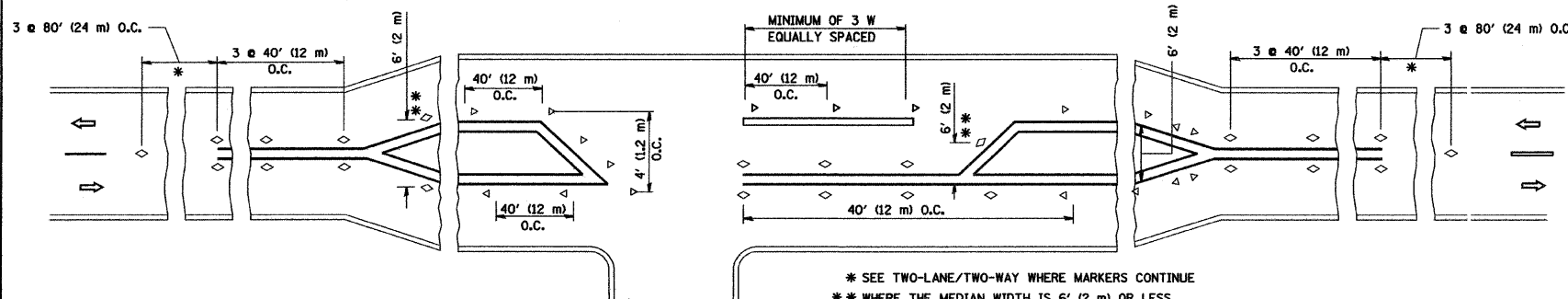
SYMBOLS

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

DESIGN NOTES

1. DOUBLE LANE LINE MARKERS SHALL BE USED UNLESS SPECIFIED OTHERWISE.
2. EXCEPT AS SHOWN ON THE LANE REDUCTION TRANSITION AND FREEWAY EXIT RAMP DETAIL, MARKERS ARE NOT TO BE SPECIFIED ON RIGHT EDGE LINES.
3. THE EXACT MARKER LIMITS, SPACING, AND COLOR SHOULD BE INCLUDED IN THE PLANS.
4. 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.



* SEE TWO-LANE/TWO-WAY WHERE MARKERS CONTINUE
 ** WHERE THE MEDIAN WIDTH IS 6' (2 m) OR LESS USE TWO-WAY MARKERS.

LEFT TURN

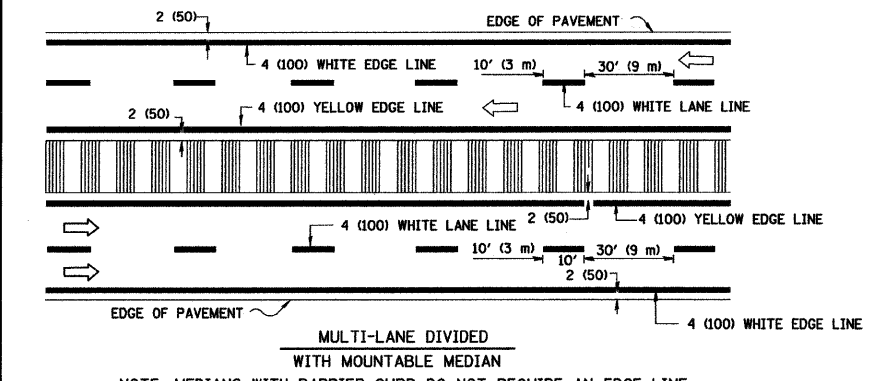
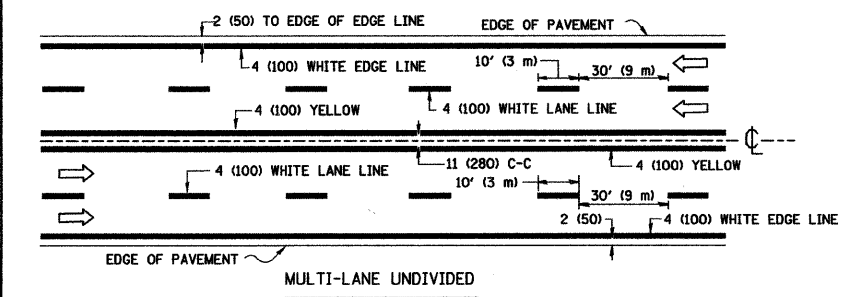
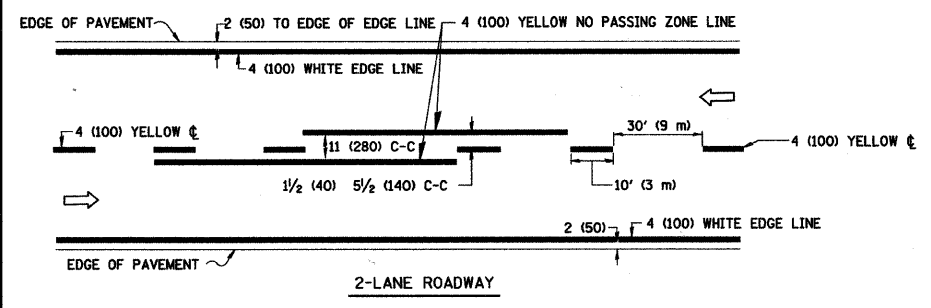
REVISIONS	
NAME	DATE
T. RAMMACHER	09-19-94
T. RAMMACHER	03-12-98
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
 TYPICAL APPLICATIONS
 RAISED REFLECTIVE PAVEMENT
 MARKERS (SNOW-PLOW RESISTANT)

SCALE: NONE

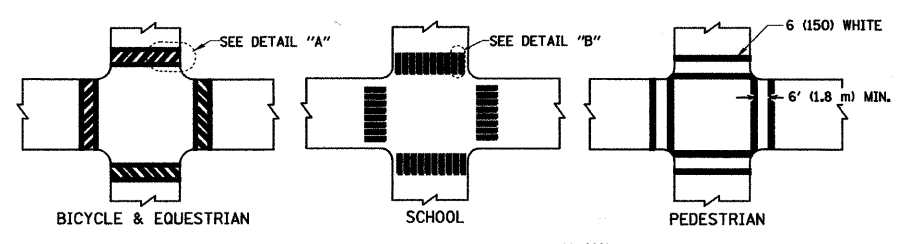
DRAWN BY CADD
 CHECKED BY
 TC-11

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
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STA.	TO STA.			
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		

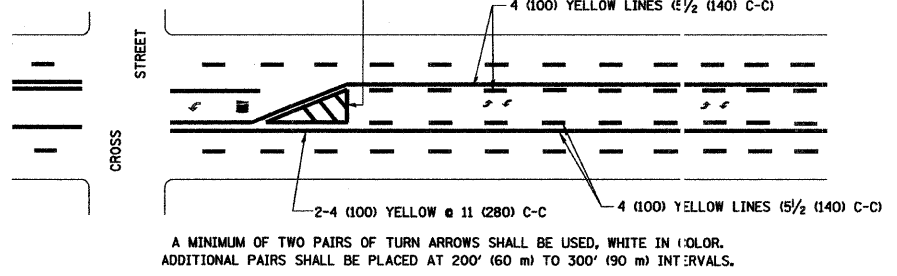
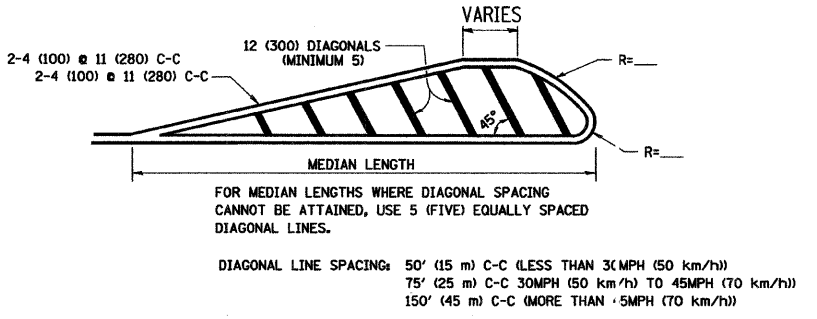
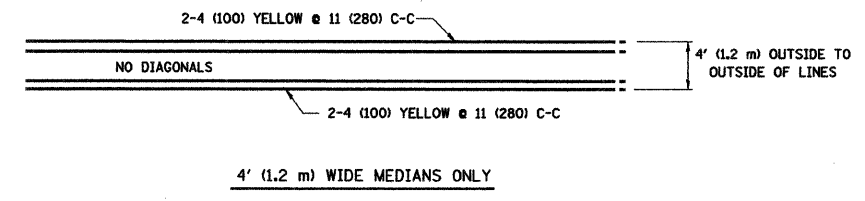


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

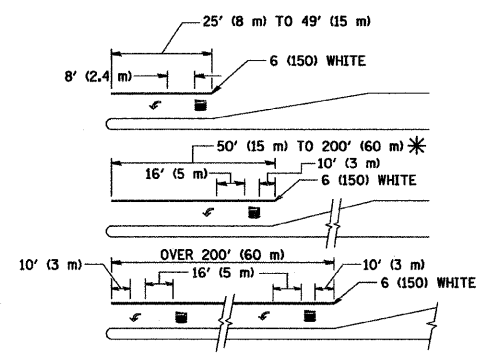
TYPICAL LANE AND EDGE LINE MARKING



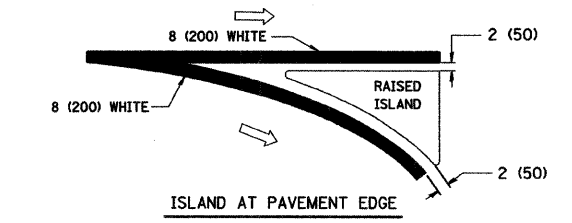
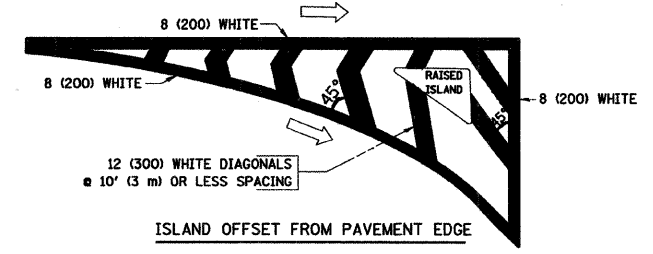
TYPICAL CROSSWALK MARKING



TYPICAL PAINTED MEDIAN MARKING



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	4 (100)	SOLID	YELLOW	5 1/2 (140) C-C FROM SKIP-DASH CENTERLINE
NO PASSING ZONE LINES: FOR BOTH DIRECTIONS	2 @ 4 (100)	SOLID	YELLOW	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) LINE; FULL SIZE LETTERS & SYMBOLS (8' (2.4m))	SOLID	WHITE	SEE TYPICAL TURN LANE MARKING DETAIL
TWO WAY LEFT TURN MARKING	2 @ 4 (100) EACH DIRECTION	SKIP-DASH AND SOLID	YELLOW	10' (3 m) LINE WITH 30' (9 m) SPACE FOR SKIP-DASH; 5 1/2 (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)	2 @ 6 (150)	SOLID	WHITE	NOT LESS THAN 6' (1.8 m) APART
A. DIAGONALS (BIKE & EQUESTRIAN)	12 (300) @ 45°	SOLID	WHITE	2' (600) APART
B. LONGITUDINAL BARS (SCHOOL)	12 (300) @ 90°	SOLID	WHITE	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°	SOLID	YELLOW; TWO WAY TRAFFIC WHITE; ONE WAY TRAFFIC	11 (280) C-C FOR THE DOUBLE LINE SEE TYPICAL PAINTED MEDIAN MARKING.
	NO DIAGONALS USED FOR 4' (1.2 m) WIDE MEDIANS			
GORE MARKING AND CHANNELIZING LINES	8 (200) WITH 12 (300) DIAGONALS @ 45°	SOLID	WHITE	DIAGONALS: 15' (4.5 m) C-C (LESS THAN 30MPH (50 km/h)) 20' (6 m) C-C 30MPH (50 km/h) TO 45MPH (70 km/h) 30' (9 m) C-C (OVER 45MPH (70 km/h))
RAILROAD CROSSING	24 (600) TRANSVERSE LINES; "RR" IS 6' (1.8 m) LETTERS; 16 (400) LINE FOR "X"	SOLID	WHITE	SEE STATE STANDARD 780001 AREA OF: "R"=3.6 SQ. FT. (0.33 m²) EACH "X"=54.0 SQ. FT. (5.0 m²)
SHOULDER DIAGONALS	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.

REVISIONS	
NAME	DATE
EVERS	03-19-90
T. RAMMACHER	10-27-94
ALEX HOUSEH	10-09-96
ALEX HOUSEH	10-17-96
T. RAMMACHER	01-06-00

ILLINOIS DEPARTMENT OF TRANSPORTATION
DISTRICT ONE
TYPICAL PAVEMENT MARKINGS

SCALE: NONE

DRAWN BY CADD
CHECKED BY
TC-13

PLT DATE = 3/6/2007
FILE NAME = K:\dms\dms\13.dgn
PLOT SCALE = 1/8" = 1'-0"
USER NAME = bward

