

FOR INDEX OF SHEETS, SEE SHEET NO. 2

FOR INDEX OF HIGHWAY STANDARDS, SEE SHEET NO. 2

PROJECT LOCATED IN THE VILLAGE OF PARK FOREST

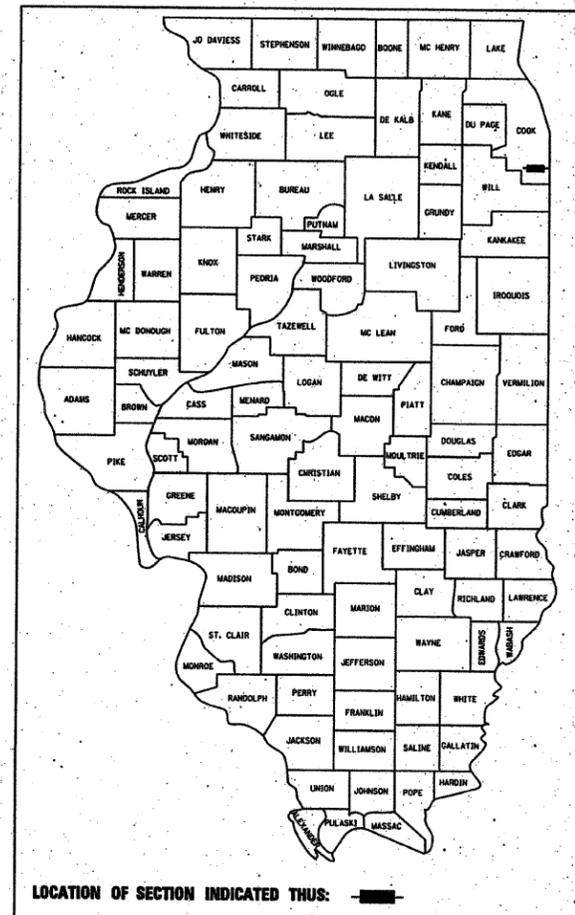
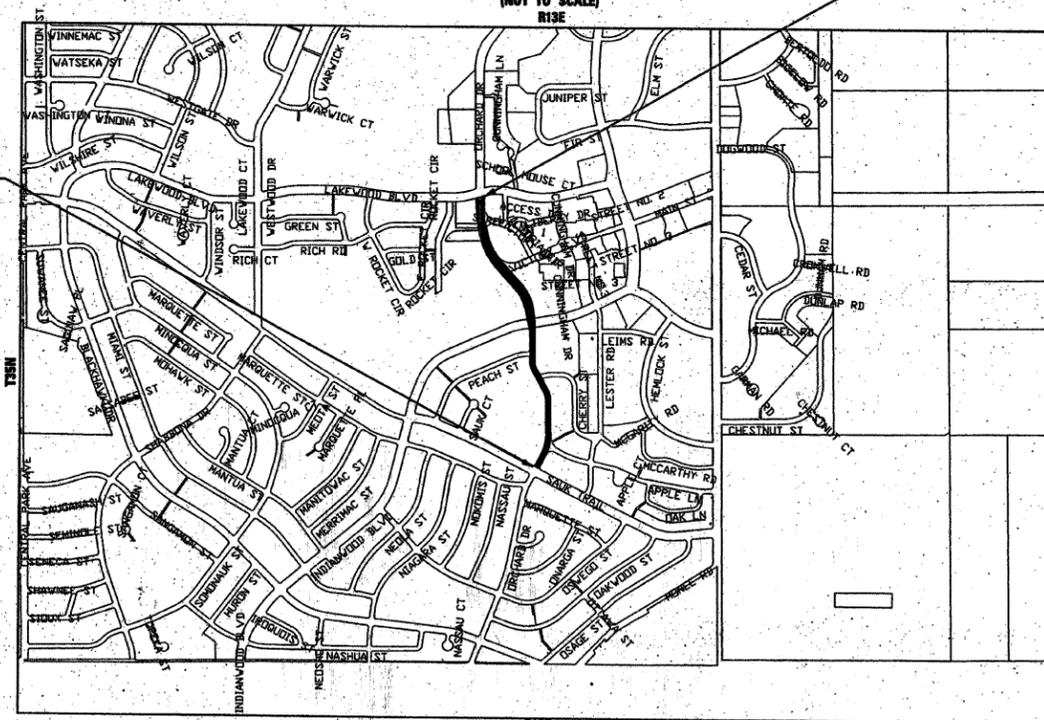
STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

PLANS FOR PROPOSED
FEDERAL AID HIGHWAY
FAU 2836 (ORCHARD DRIVE)
FAU 1632 (SAUK TRAIL) TO LAKEWOOD BLVD
RESURFACING

PROJECT No.: ARA-9003(537)
SECTION No.: 09-00092-00-RS
JOB No: C-91-743-09
VILLAGE OF PARK FOREST
COOK COUNTY

FAU 2836 ORCHARD DRIVE
IMPROVEMENT ENDS
STA. 132+18

LOCATION MAP
(NOT TO SCALE)



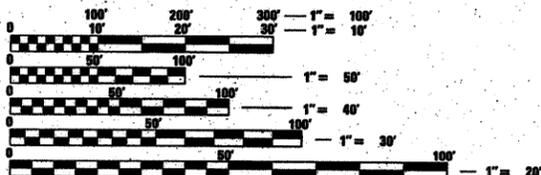
LOCATION OF SECTION INDICATED THUS: [Symbol]

TRAFFIC DATA
ORCHARD DRIVE
POSTED SPEED LIMIT = 20 MPH
DESIGN SPEED LIMIT = 25 MPH
2007 ADT = 6,800 VPD

DESIGN DESIGNATION
COLLECTOR

FAU 2836 ORCHARD DRIVE
IMPROVEMENT BEGINS
STA. 101+00

BAXTER & WOODMAN, INC.
STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2011



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

RICH TOWNSHIP
GROSS LENGTH OF IMPROVEMENT = 3,300 LF OR 0.63 MILES
NET LENGTH OF IMPROVEMENT = 3,300 LF OR 0.63 MILES



Christine A. Code
PROJECT ENGINEER
"LICENSE EXPIRES 11-30-11"

Nathan J. P.C.K.
PROJECT MANAGER
"LICENSE EXPIRES 11-30-11"

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION
DIVISION OF HIGHWAYS

APPROVED [Signature] 2009
DIRECTOR OF PUBLIC WORKS

PASSED [Signature] 2009
DISTRICT 1 ENGINEER OF LOCAL ROADS AND STREETS

RELEASING FOR BID
BASED ON LIMITED
REVIEW [Signature] 2009
DEPUTY DIRECTOR OF
HIGHWAYS, REGION 1 ENGINEER

PRINTED BY THE AUTHORITY
OF THE STATE OF ILLINOIS

CONTRACT NO. 63310

Burlington, Wisconsin 262.763.7834 Chicago, Illinois 312.578.0050 Crystal Lake, Illinois 815.459.1260 DeKalb, Illinois 815.787.3111 Grayslake, Illinois 847.223.5088 Itasca, Illinois 630.773.1870 Madison, Wisconsin 608.347.1542 Mokena, Illinois 708.478.2090 Plainfield, Illinois 815.609.7425

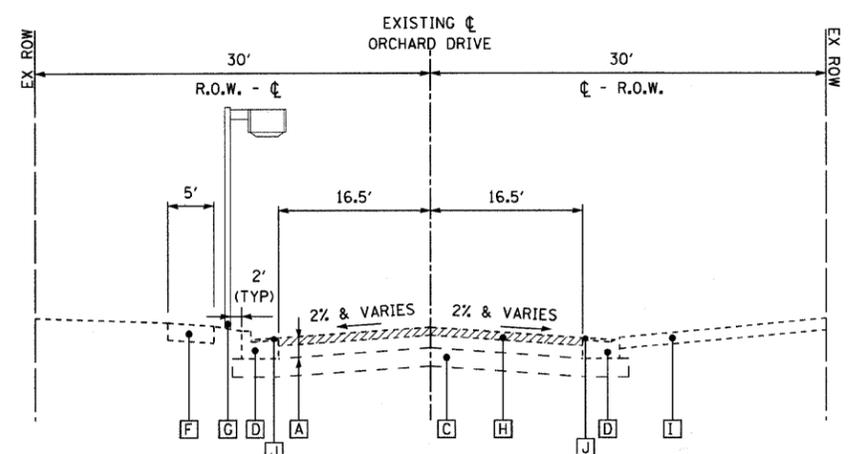
(OFFICE WHICH PREPARED PLANS)

B&W PROJECT NO.: 090388.40 DATE: 10-06-09

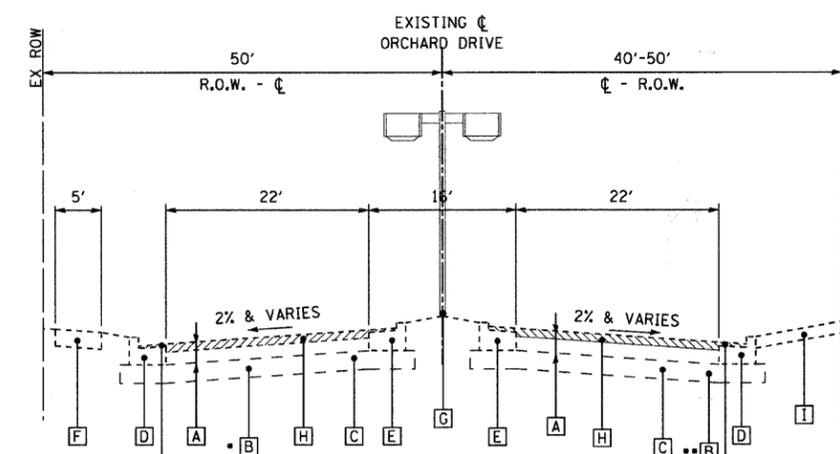
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STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
LICENSE NO. - 184-001121 - EXPIRES 4/30/2011
FIELD ENGINEER: MELCHOR MANGUERA, P.E. (847-705-4408)

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 09-00092-00-RS		COOK	18	4
STA.		TO STA.		
FED. ROAD DIST. NO	ILLINOIS	FED AID PROJECT		
C-91-743-09		ARA-900315371		

• FAU 2836 ORCHARD DRIVE
CONTRACT NO. 63310

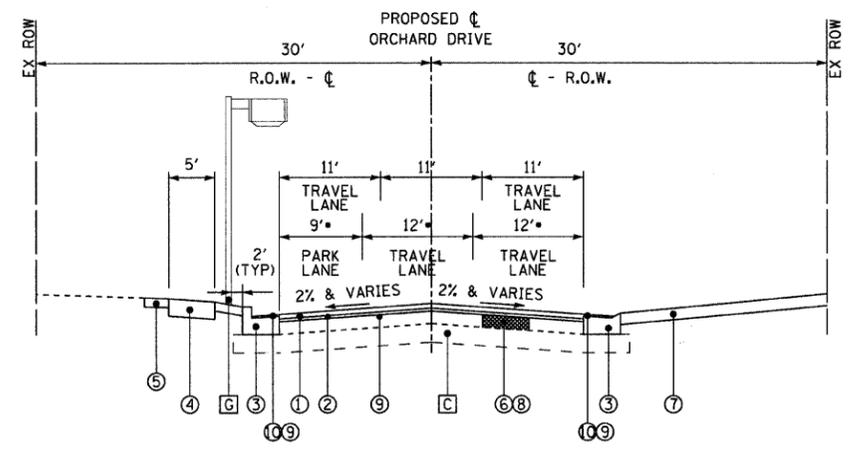


**EXISTING TYPICAL SECTION
ORCHARD DRIVE
STA 101+00 TO STA 117+80**

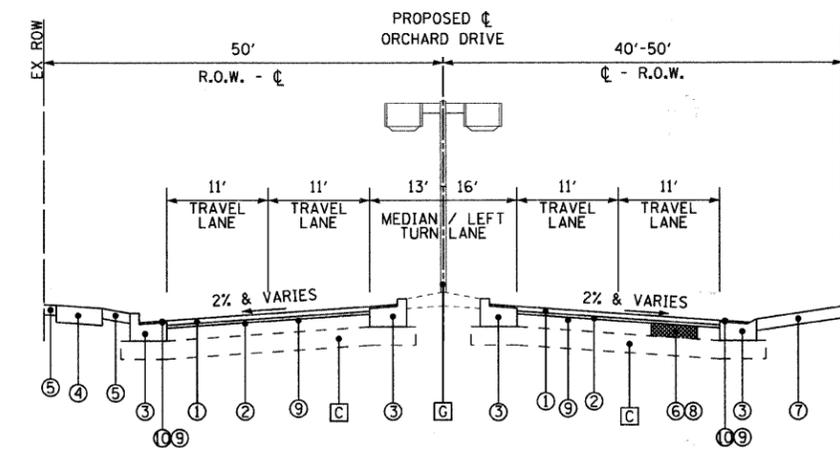


**EXISTING TYPICAL SECTION
ORCHARD DRIVE
STA 117+80 TO STA 132+18**

• (SEE PAVEMENT CORE BORING 10 AT STA 128+45, 27' LT)
•• (SEE BORING 9 AT STA 125+50, 27' RT)



**PROPOSED TYPICAL SECTION
ORCHARD DRIVE
STA 101+00 TO STA 117+80
* PARK LANE FROM STA 108+00 TO STA 113+79**



**PROPOSED TYPICAL SECTION
ORCHARD DRIVE
STA 117+80 TO STA 132+18**

LEGEND

- EXISTING**
- A HMA PAVEMENT (VARIES 5"-7")
 - B PCC BASE COURSE (AVG. DEPTH 8")
 - C AGGREGATE BASE COURSE (VARIES 6"-11")
 - D COMBINATION CONCRETE CURB AND GUTTER
 - E CONCRETE CURB, TYPE B
 - F SIDEWALK
 - G STREET LIGHT
 - H HOT-MIX ASPHALT SURFACE REMOVAL, 2"
 - I DRIVEWAY
 - J HOT-MIX ASPHALT SURFACE REMOVAL (SPECIAL)
- PROPOSED**
- 1 HMA SURFACE COURSE, MIX "D", N50 - 1 1/2"
 - 2 LEVELING BINDER (MACHINE METHOD), N50 - 3/4" (MIN)
 - 3 COMBINATION CONCRETE CURB AND GUTTER REMOVAL AND REPLACEMENT (AS DETERMINED BY ENGINEER)
 - 4 SIDEWALK REMOVAL
PCC SIDEWALK, 5-INCH
AGGREGATE BASE COURSE TYPE B, 4"
(AS DETERMINED BY ENGINEER)
 - 5 PARKWAY RESTORATION (INCIDENTAL TO COMBINATION CONCRETE CURB AND GUTTER AND PCC SIDEWALK, 5-INCH)
 - 6 PAVEMENT PATCHING (FULL DEPTH)
 - 7 DRIVEWAY REMOVE AND REPLACE (AS DETERMINED BY THE ENGINEER)
 - 8 PREPARATION OF BASE AND AGGREGATE BASE REPAIR (SPECIAL)
 - 9 MIXTURE FOR CRACKS, JOINTS AND FLANGEWAYS
 - 10 STRIP REFLECTIVE CRACK CONTROL TREATMENT

HOT-MIX ASPHALT MIXTURE REQUIREMENTS

NOTE: CONTRACTOR SHALL MILL BEFORE PATCHING

ITEM	AIR VOIDS @ Ndes
RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 - 1 1/2 INCH (IL-9.5 mm)	4% @ 50 Gyr
LEVELING BINDER (MACHINE METHOD) N50 - 3/4" (IL-9.5 mm)	4% @ 50 Gyr
PATCHING	
PAVEMENT PATCHING (FULL DEPTH) (HMA BINDER IL-19 mm)	4% @ 70 Gyr
DRIVEWAY	
HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50-3" (IL-9.5 mm)	4% @ 50 Gyr

1. THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURE QUANTITIES IS 112 LBS/50 YD/IN.
2. 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.

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 STATE OF ILLINOIS PROFESSIONAL DESIGN FIRM
 No. 021-001076-0001
 07/27/2009
 PROJECT: VILLAGE OF PARK FOREST, ILLINOIS
 FAU 2836 ORCHARD DRIVE LAPP RESURFACING
 SECTION 09-00092-00-RS
 FILE: 090388-ExTypSec.dwg
 DATE: 5-22-09
 DRAWN: BCD
 CHECKED: NJP
 DESIGNED: JGH/CAC
 REVISED: PER IDOT 10-06-09
 FILE: 090388-ExTypSec.sht



DESIGNED - JGH/CAC	REVISED - PER IDOT 10-06-09
DRAWN - BCD	REVISED -
CHECKED - NJP	REVISED -
DATE - 5-22-09	FILE - 090388-ExTypSec.sht

**VILLAGE OF PARK FOREST, ILLINOIS
FAU 2836 ORCHARD DRIVE LAPP RESURFACING
SECTION 09-00092-00-RS**

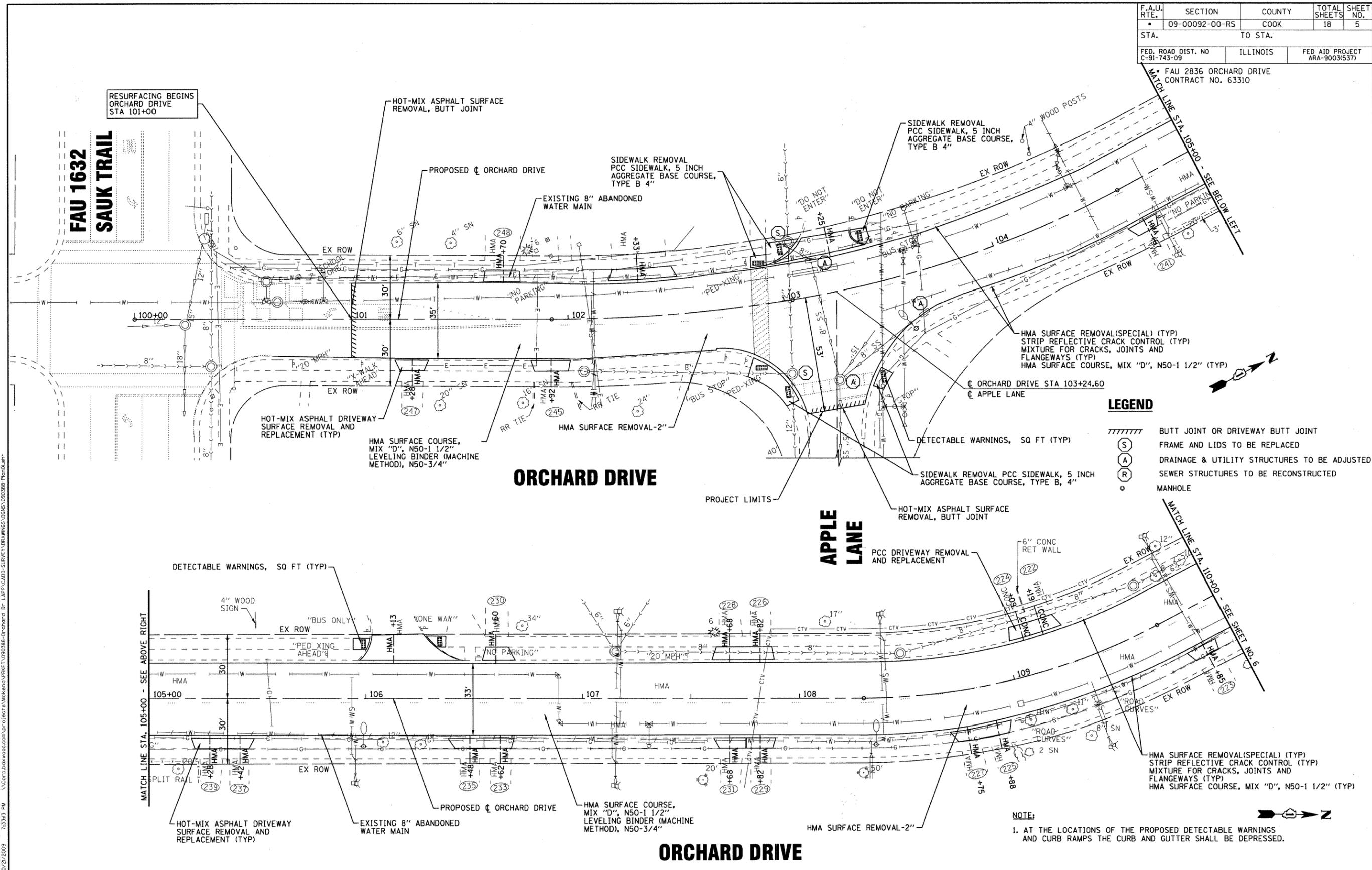
**TYPICAL SECTIONS AND
HMA MIXTURE REQUIREMENTS**

SCALE: NONE

STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 09-00092-00-RS		COOK	18	4
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED AID PROJECT		
		CONTRACT NO. 63310		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00092-00-RS		COOK	18	5
STA.	TO STA.			
FED. ROAD DIST. NO. C-91-743-09	ILLINOIS	FED AID PROJECT ARA-9003(537)		
FAU 2836 ORCHARD DRIVE CONTRACT NO. 63310				



LEGEND

	BUTT JOINT OR DRIVEWAY BUTT JOINT
(S)	FRAME AND LIDS TO BE REPLACED
(A)	DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
(R)	SEWER STRUCTURES TO BE RECONSTRUCTED
o	MANHOLE

NOTE:
1. AT THE LOCATIONS OF THE PROPOSED DETECTABLE WARNINGS AND CURB RAMPS THE CURB AND GUTTER SHALL BE DEPRESSED.

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 LICENSE NO. 021-022093
 PROJECT NO. 090388-01-ORCHARD DR.
 DRAWING NO. 090388-Plan01.sht



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DRAWN - BCD	REVISED -
CHECKED - NJP	REVISED -
DATE - 5-22-09	FILE - 090388-Plan01.sht

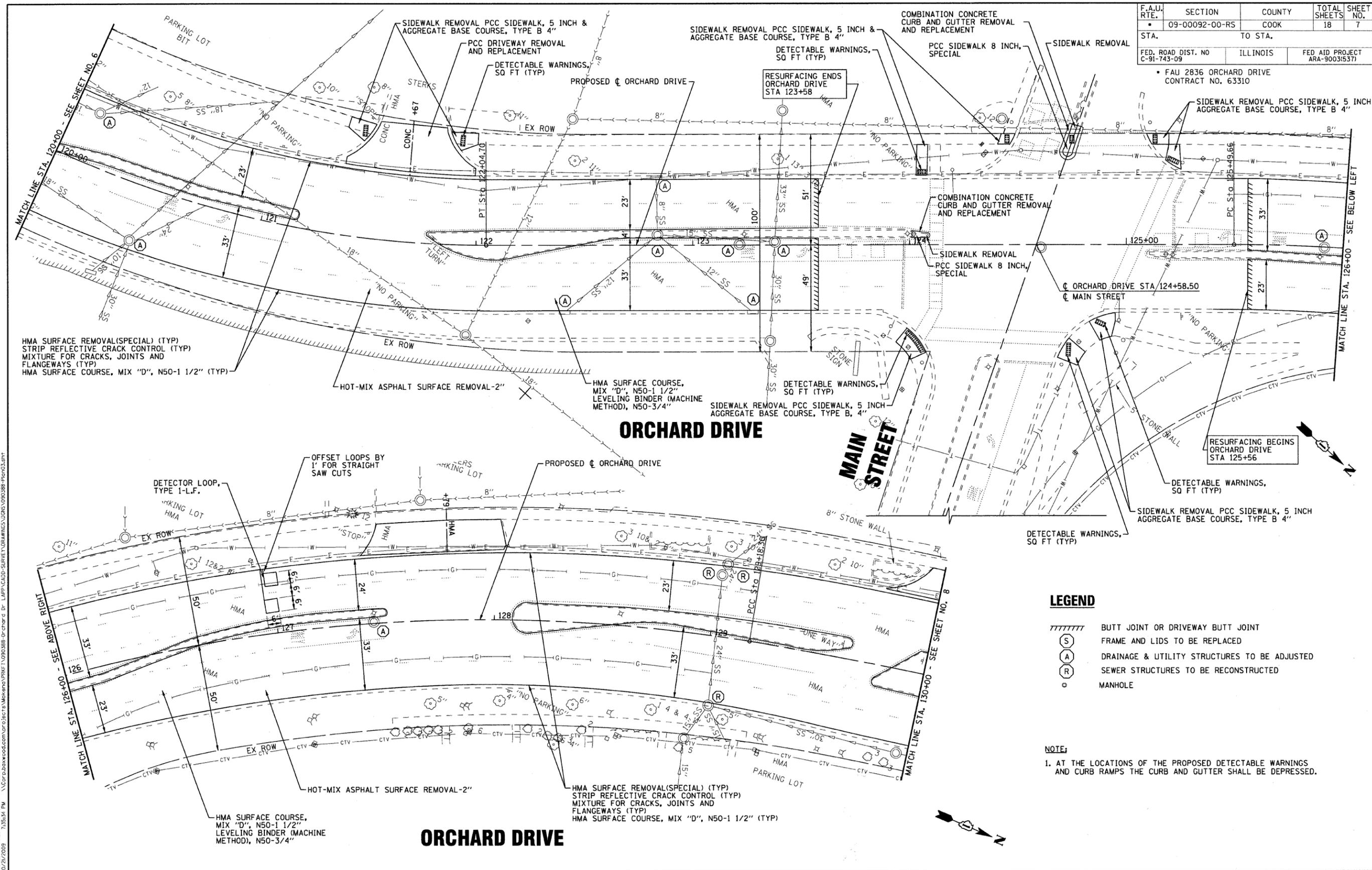
VILLAGE OF PARK FOREST, ILLINOIS
FAU 2836 ORCHARD DRIVE LAPP RESURFACING
SECTION 09-00092-00-RS

ORCHARD DRIVE PLAN	
SCALE: 1"=20'	STA. 100+00 TO STA. 110+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00092-00-RS		COOK	18	5
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63310				

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00092-00-RS		COOK	18	7
STA.	TO STA.			
FED. ROAD DIST. NO. C-91-743-09	ILLINOIS	FED AID PROJECT ARA-90035370		

FAU 2836 ORCHARD DRIVE
CONTRACT NO. 63310



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DATE - 5-22-09	FILE - 090388-Plan03.sht

VILLAGE OF PARK FOREST, ILLINOIS
FAU 2836 ORCHARD DRIVE LAPP RESURFACING
SECTION 09-00092-00-RS

ORCHARD DRIVE PLAN	
SCALE: 1"=20'	STA. 120+00 TO STA. 130+00

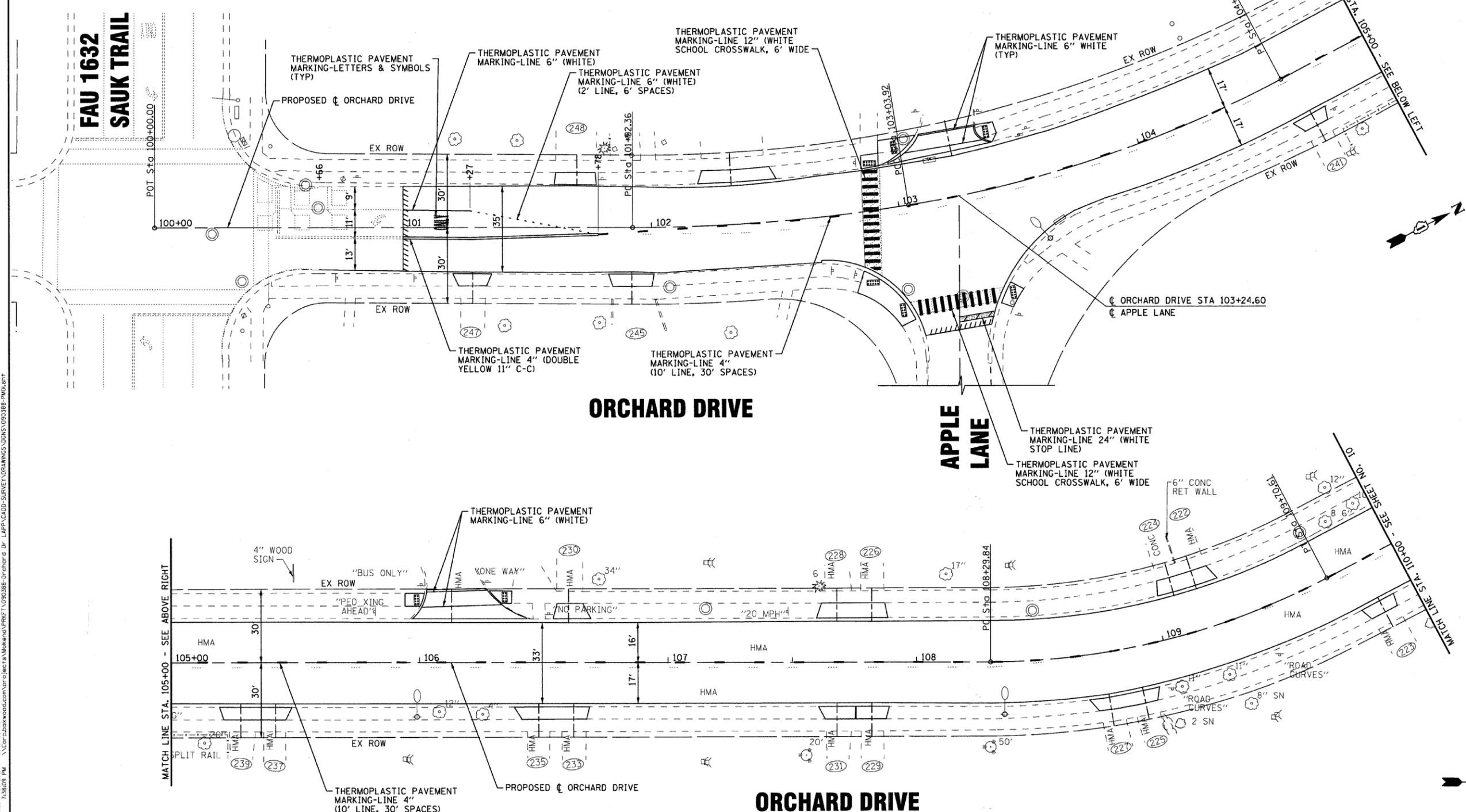
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09-00092-00-RS		COOK	18	7
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
		CONTRACT NO. 63310		

LEGEND

- BUTT JOINT OR DRIVEWAY BUTT JOINT
- FRAME AND LIDS TO BE REPLACED
- DRAINAGE & UTILITY STRUCTURES TO BE ADJUSTED
- SEWER STRUCTURES TO BE RECONSTRUCTED
- MANHOLE

NOTE:
 1. AT THE LOCATIONS OF THE PROPOSED DETECTABLE WARNINGS AND CURB RAMPS THE CURB AND GUTTER SHALL BE DEPRESSED.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 09-00092-00-RS		COOK	18	9
STA.	TO STA.			
FED. ROAD DIST. NO C-91-743-09	ILLINOIS	FED AID PROJECT ARA-9003(537)		
• FAU 2836 ORCHARD DRIVE CONTRACT NO. 63310				



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CHECKED - NJP	REVISED -
DATE - 5-22-09	FILE - 090388-PM01.shx

VILLAGE OF PARK FOREST, ILLINOIS
FAU 2836 ORCHARD DRIVE LAPP RESURFACING
SECTION 09-00092-00-RS

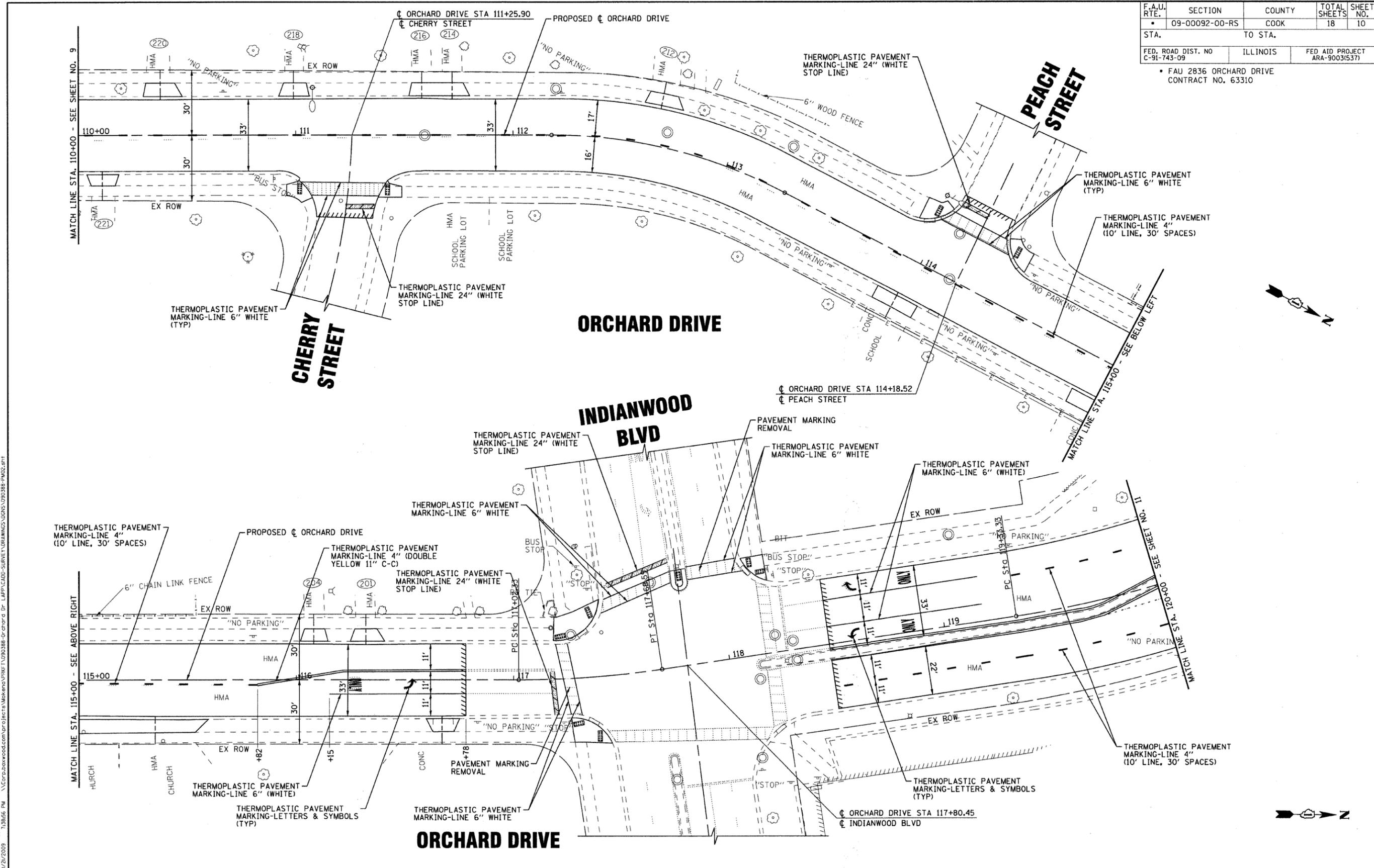
PAVEMENT MARKING PLAN

SCALE: 1"=20' STA. 100+00 TO STA. 110+00

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
• 09-00092-00-RS		COOK	18	9
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
		CONTRACT NO. 63310		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00092-00-RS		COOK	18	10
STA.	TO STA.			
FED. ROAD DIST. NO. C-91-743-09	ILLINOIS	FED AID PROJECT ARA-90031537		

FAU 2836 ORCHARD DRIVE
CONTRACT NO. 63310



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DRAWN -	BCD	REVISED -	
CHECKED -	NJP	REVISED -	
DATE -	5-22-09	FILE -	090388-PM02.sht

VILLAGE OF PARK FOREST, ILLINOIS
FAU 2836 ORCHARD DRIVE LAPP RESURFACING
SECTION 09-00092-00-RS

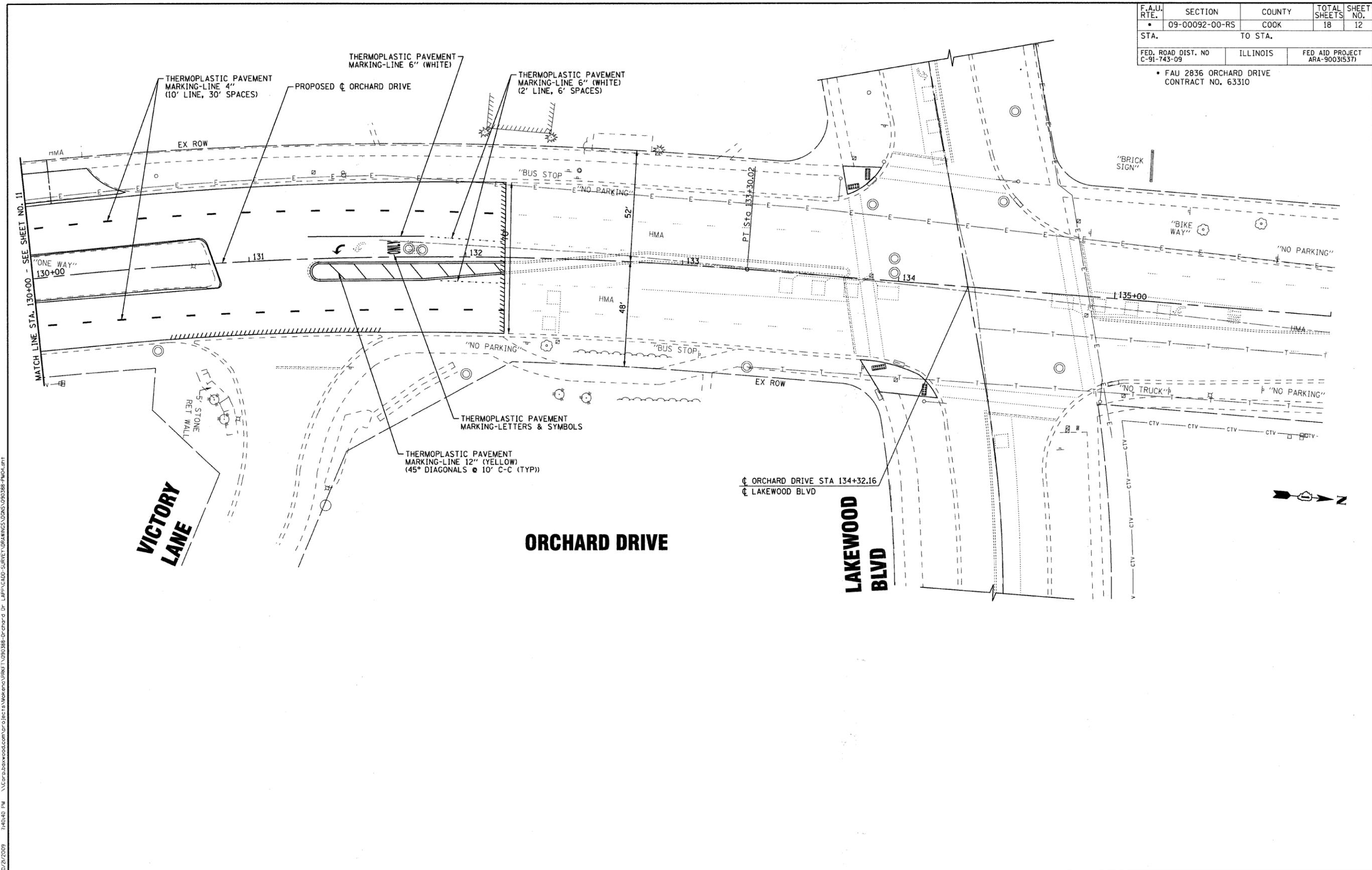
PAVEMENT MARKING PLAN

SCALE: 1"=20' STA. 110+00 TO STA. 120+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00092-00-RS		COOK	18	10
FED. ROAD DIST. NO.		ILLINOIS	FED. AID PROJECT	
		CONTRACT NO. 63310		

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00092-00-RS		COOK	18	12
STA.	TO STA.			
FED. ROAD DIST. NO. C-91-743-09	ILLINOIS	FED AID PROJECT ARA-9003(537)		

FAU 2836 ORCHARD DRIVE
CONTRACT NO. 63310



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DESIGNED - JGH/CAC	REVISED - PER IDOT 10-06-09
DRAWN - BCD	REVISED -
CHECKED - NJP	REVISED -
DATE - 5-22-09	FILE - 090388-PM04.sht

VILLAGE OF PARK FOREST, ILLINOIS
FAU 2836 ORCHARD DRIVE LAPP RESURFACING
SECTION 09-00092-00-RS

PAVEMENT MARKING PLAN	
SCALE: 1"=20'	STA. 130+00 TO STA. 136+00

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
09-00092-00-RS		COOK	18	12
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO. 63310				

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NA	09-00092-00-RS	COOK	18	13
STA.	TO STA.			
FED. ROAD DIST. NO	ILLINOIS	FED AID PROJECT		
C-91-743-09		ARA-9003(537)		

• FAU 2836 ORCHARD DRIVE
CONTRACT NO. 63310

CONSTRUCTION PROCEDURES

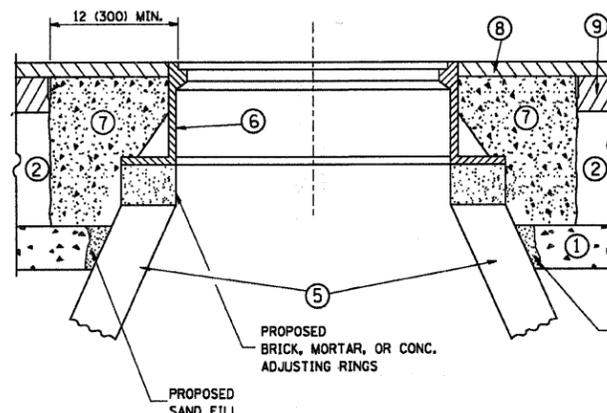
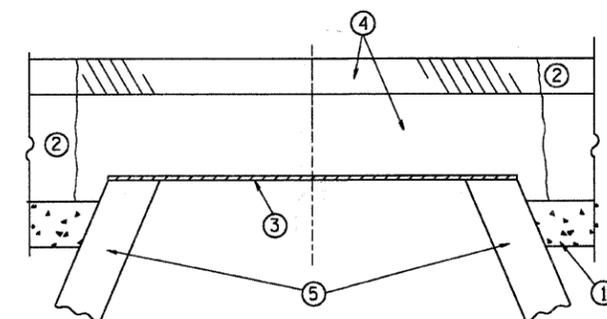
STAGE 1 (BEFORE PAVEMENT MILLING)

- 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

FILE NAME =	USER NAME = goglianobt	DESIGNED - R. SHAH	REVISED - R. SHAH 03-10-95
W:\distatd\22x34\bd08.dgn		DRAWN -	REVISED - A. ABBAS 03-21-97
	PLOT SCALE = 50.0000' / IN.	CHECKED -	REVISED - R. WIEDEMAN 05-14-04
	PLOT DATE = 1/4/2008	DATE - 10-25-94	REVISED - R. BORO 01-01-07

**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

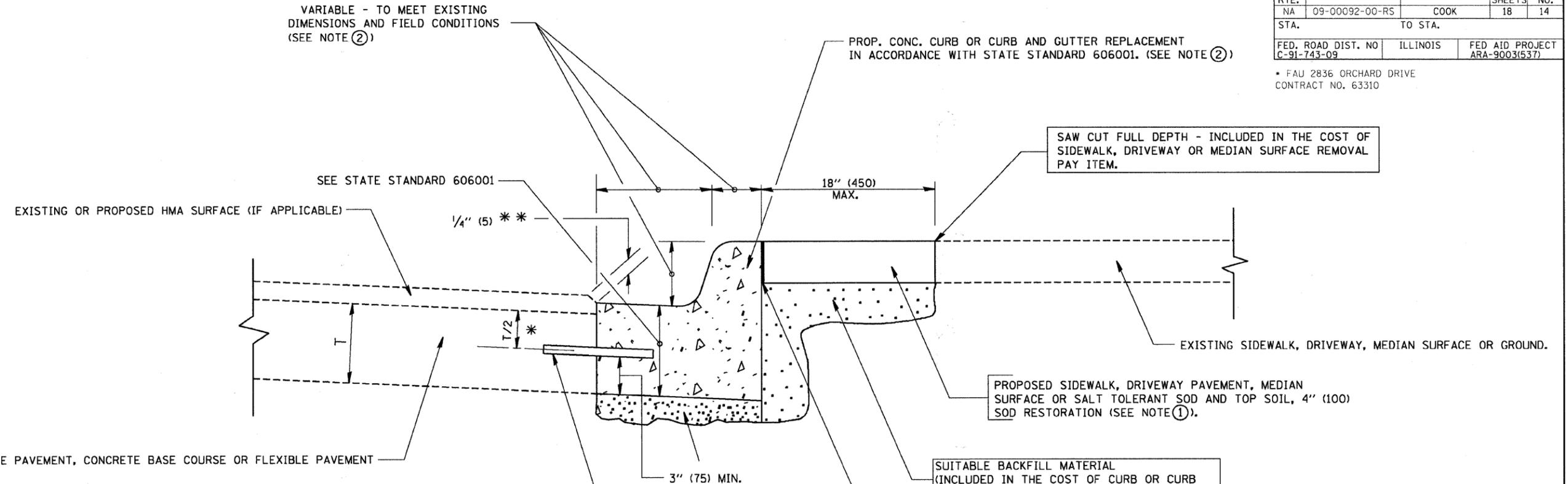
**DETAILS FOR
FRAMES AND LIDS ADJUSTMENT WITH MILLING**

SCALE: NONE SHEET NO. 1 OF 1 SHEETS STA. TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NA	09-00092-00-RS	COOK	18	13
BD600-03 (BD-8)		CONTRACT NO. 63310		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NA	09-00092-00-RS	COOK	18	14
STA.		TO STA.		
FED. ROAD DIST. NO	ILLINOIS	FED AID PROJECT		
C-91-743-09		ARA-90031537		

• FAU 2836 ORCHARD DRIVE
CONTRACT NO. 63310



* 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.

SALT TOLERANT SOD AND TOP SOIL, 4" (100) RESTORATION WILL NOT BE PAID FOR SEPARATELY, BUT SHALL BE INCLUDED IN THE COST OF CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT.

- ② CURB OR CURB AND GUTTER REPLACEMENT SHALL MATCH THE SHAPE OF THE EXISTING CURB OR CURB AND GUTTER UNLESS OTHERWISE SPECIFIED.
- ③ FOR CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT ADJACENT TO FLEXIBLE PAVEMENT DELETE EPOXY COATED TIE BARS.
- ④ 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.
- ⑤ 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.
- ⑥ 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.
- ⑦ 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.

UNSUITABLE 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) CENTERS 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".

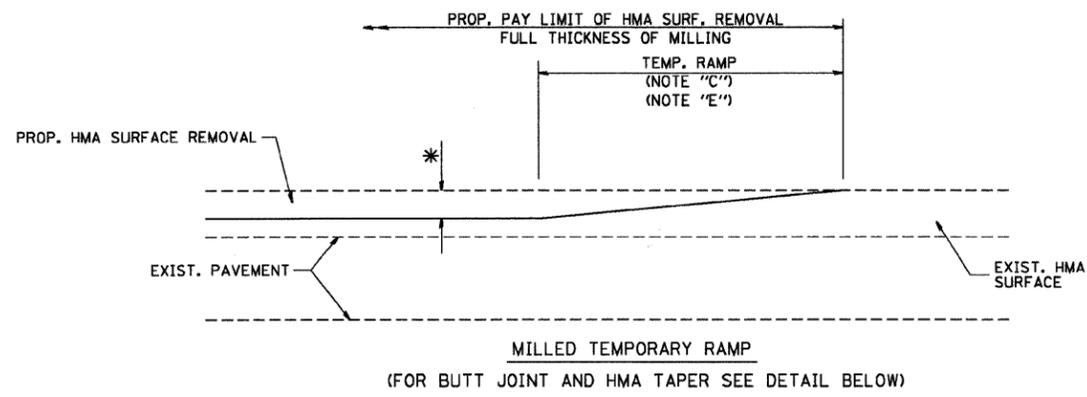
CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT

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

FILE NAME = W:\data\22x34\bd24.dgn	USER NAME = geglisenobt	DESIGNED - A. HOUSEH	REVISED - R. SHAH 10-03-96	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	CURB OR CURB AND GUTTER REMOVAL AND REPLACEMENT	F.A.U. RTE. NA	SECTION 09-00092-00-RS	COUNTY COOK	TOTAL SHEETS 18	SHEET NO. 14
PLOT SCALE = 50.000' / 1IN.		CHECKED -	REVISED - A. ABBAS 03-21-97	SCALE: NONE		SHEET NO. 1 OF 1 SHEETS		STA. TO STA.		
PLOT DATE = 1/4/2008		DATE - 03-11-94	REVISED - M. GOMEZ 01-22-01	FED. ROAD DIST. NO. 1		ILLINOIS		FED. AID PROJECT		
			REVISED - R. BORO 01-01-07	BD600-06 (BD-24)		CONTRACT NO. 63310				

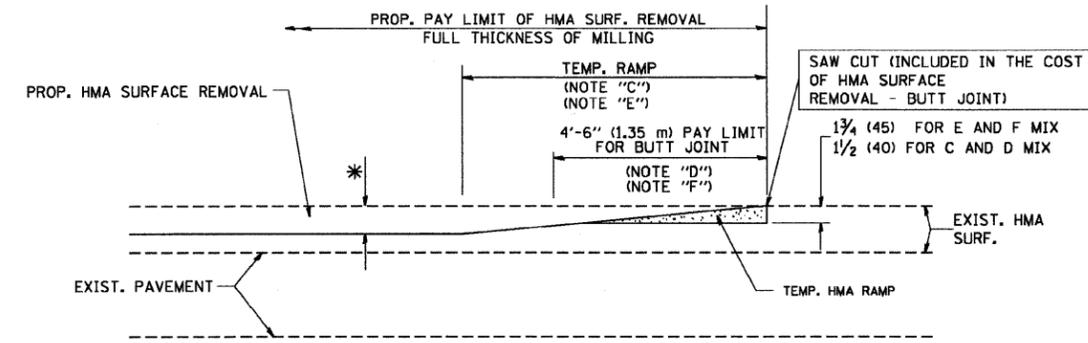
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NA	09-00092-00-RS	COOK	18	15
STA.	TO STA.			
FED. ROAD DIST. NO	ILLINOIS	FED AID PROJECT		
C-91-743-09		ARA-9003(537)		

• FAU 2836 ORCHARD DRIVE
CONTRACT NO. 63310



MILLED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

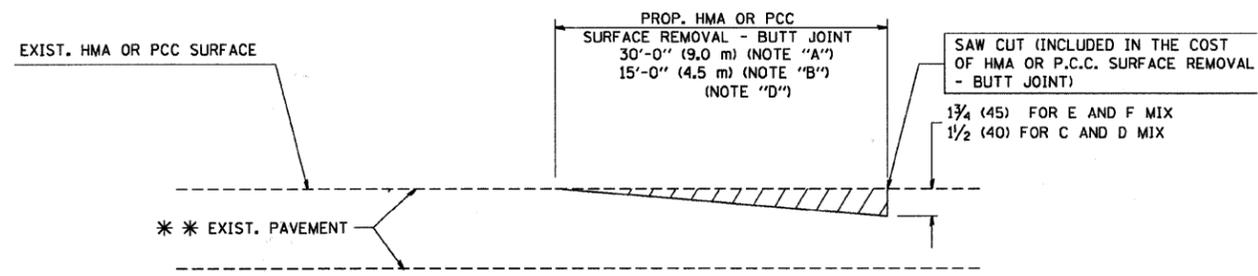
OPTION 1



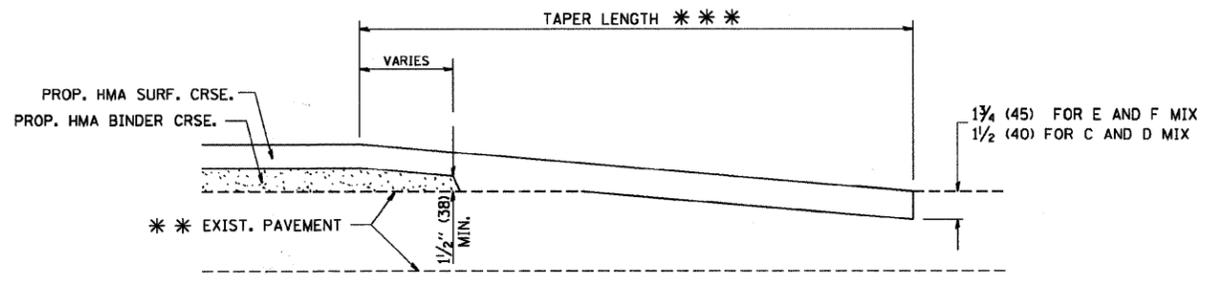
HMA CONSTRUCTED TEMPORARY RAMP
(FOR BUTT JOINT AND HMA TAPER SEE DETAIL BELOW)

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.

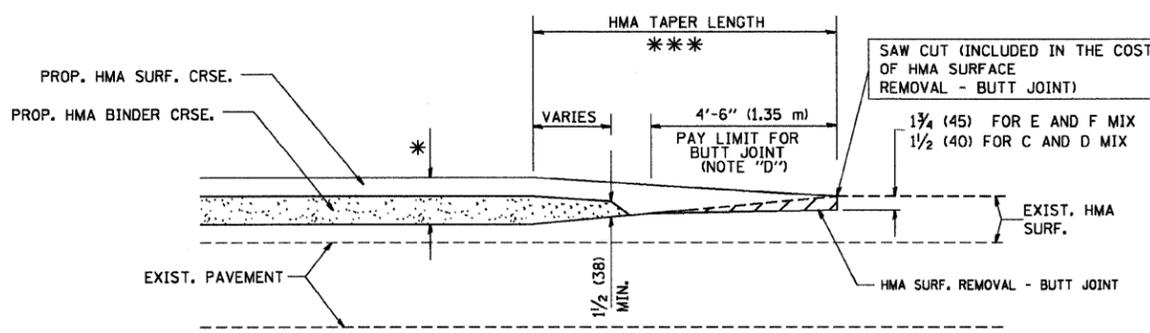
NOTES

- 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")

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.



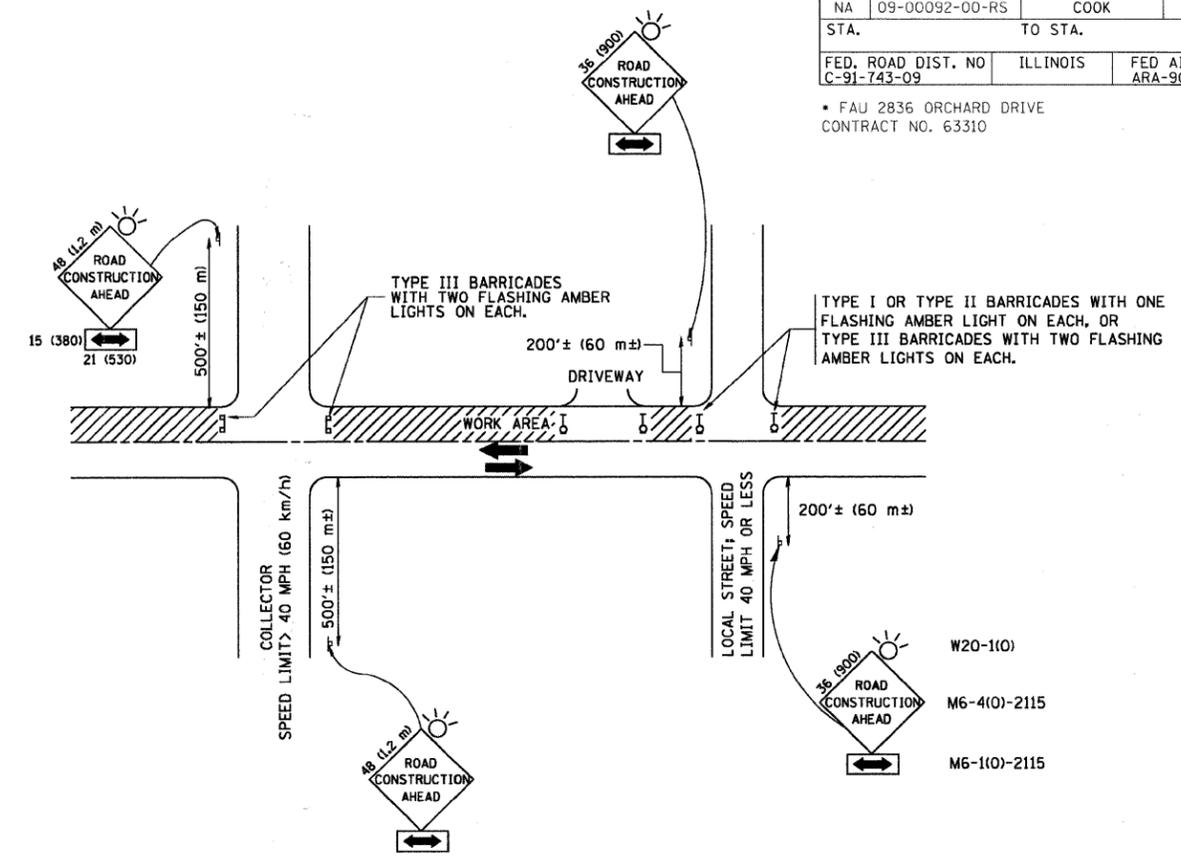
BUTT JOINT AND HMA TAPER

TYPICAL BUTT JOINT AND HMA TAPER FOR MILLING AND RESURFACING

FILE NAME = W:\data\td\22x34\bd32.dgn	USER NAME = goglienobt	DESIGNED - M. DE YONG	REVISED - R. SHAH 10-25-94	STATE OF ILLINOIS DEPARTMENT OF TRANSPORTATION	BUTT JOINT AND HMA TAPER DETAILS			F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
		DRAWN -	REVISED - A. ABBAS 03-21-97		NA	09-00092-00-RS	COOK	18	15			
		CHECKED -	REVISED - M. GOMEZ 04-06-01		BD400-05 BD32			CONTRACT NO. 63310				
		DATE - 06-13-90	REVISED - R. BORO 01-01-07		FED. ROAD DIST. NO. 1	ILLINOIS	FED. AID PROJECT					
				SCALE: NONE	SHEET NO. 1	OF 1 SHEETS	STA.	TO STA.				

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NA	09-00092-00-RS	COOK	18	16
STA.		TO STA.		
FED. ROAD DIST. NO	ILLINOIS	FED AID PROJECT		
C-91-743-09		ARA-9003(537)		

• FAU 2836 ORCHARD DRIVE
CONTRACT NO. 63310



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.
- 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.

FILE NAME =	USER NAME = gogliamobt	DESIGNED - LHA	REVISED - J. OBERLE 10-18-95
W:\dstatd\22x34\1018.dgn		DRAWN -	REVISED - A. HOUSEH 03-06-96
		CHECKED -	REVISED - A. HOUSEH 10-15-96
		DATE - 06-89	REVISED - T. RAMMACHER 01-06-00

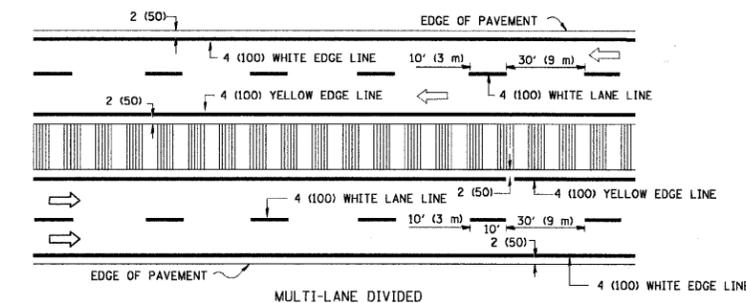
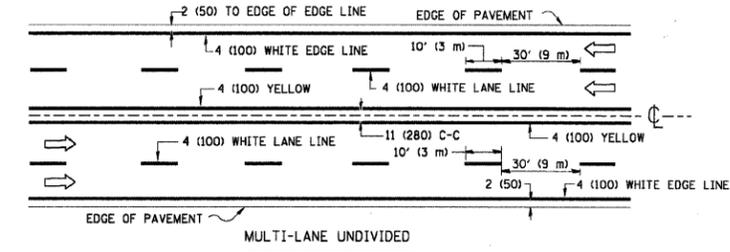
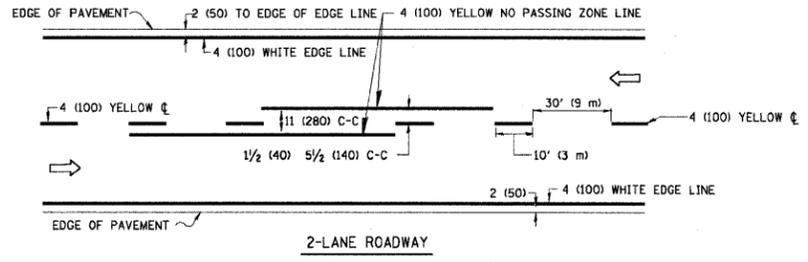
**STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION**

TRAFFIC CONTROL AND PROTECTION FOR SIDE ROADS, INTERSECTIONS, AND DRIVEWAYS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NA	09-00092-00-RS	COOK	18	16
TC-10		CONTRACT NO. 63310		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		

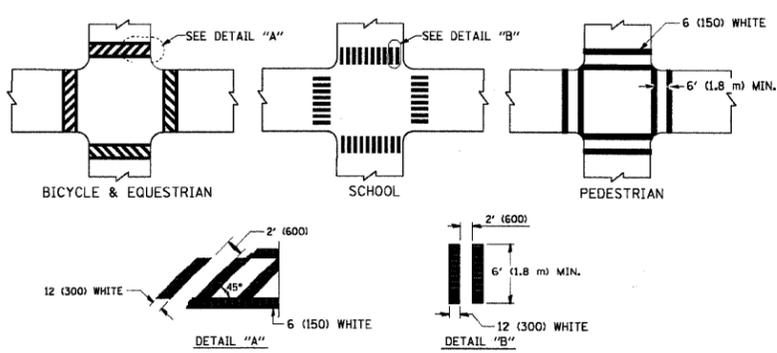
F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NA	09-0092-00-RS	COOK	18	17
STA.	TO STA.			
FED. ROAD DIST. NO	ILLINOIS	FED AID PROJECT		
C-91-743-09		ARA-9003(537)		

• FAU 2836 ORCHARD DRIVE
CONTRACT NO. 63310

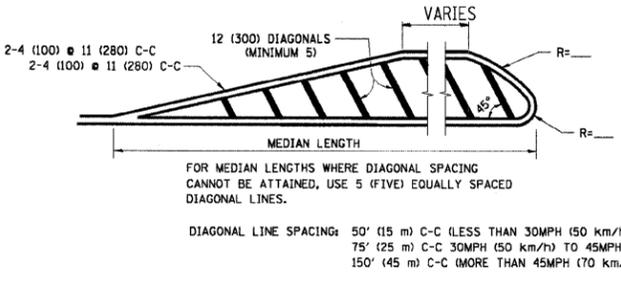
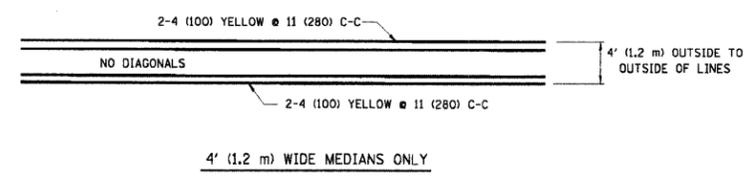


NOTE: MEDIANS WITH BARRIER CURB DO NOT REQUIRE AN EDGE LINE

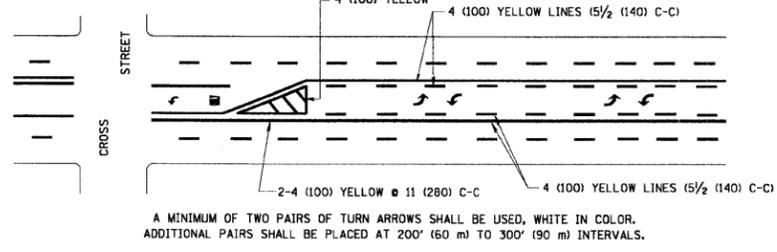
TYPICAL LANE AND EDGE LINE MARKING



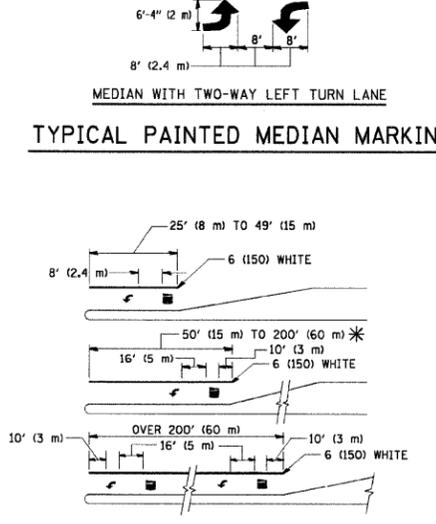
TYPICAL CROSSWALK MARKING



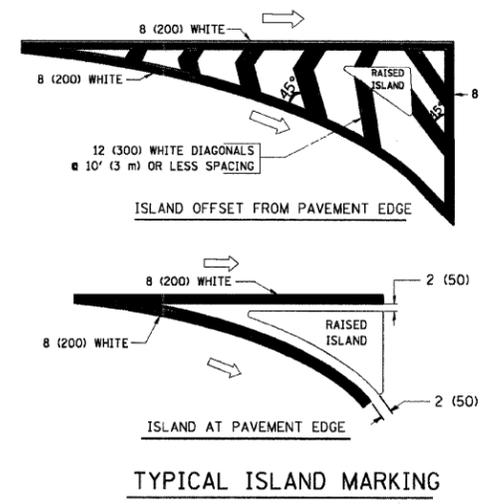
MEDIANS OVER 4' (1.2 m) WIDE



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 FOR BOTH DIRECTIONS	4 (100) 2 @ 4 (100)	SOLID SOLID	YELLOW YELLOW	5/2 (140) C-C FROM SKIP-DASH CENTERLINE 11 (280) C-C OMIT SKIP-DASH CENTERLINE BETWEEN
LANE LINES	4 (100) 5 (125) ON FREEWAYS	SKIP-DASH SKIP-DASH	WHITE WHITE	10' (3 m) LINE WITH 30' (9 m) SPACE
DOTTED LINES (EXTENSIONS OF CENTER, LANE OR TURN LANE MARKINGS)	SAME AS LINE BEING EXTENDED	SKIP-DASH	SAME AS LINE BEING EXTENDED	2' (600) LINE WITH 6' (1.8 m) SPACE
EDGE LINES	4 (100)	SOLID	YELLOW-LEFT WHITE-RIGHT	OUTLINE MOUNTABLE MEDIANS IN YELLOW; EDGE LINES ARE NOT USED NEXT TO BARRIER CURB
TURN LANE MARKINGS	6 (150) 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 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 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.

FILE NAME =	USER NAME = drsvakosgn	DESIGNED - EVERS	REVISED - T. RAMMACHER 10-27-94
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		CHECKED -	REVISED -
		DATE - 03-19-90	REVISED -

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

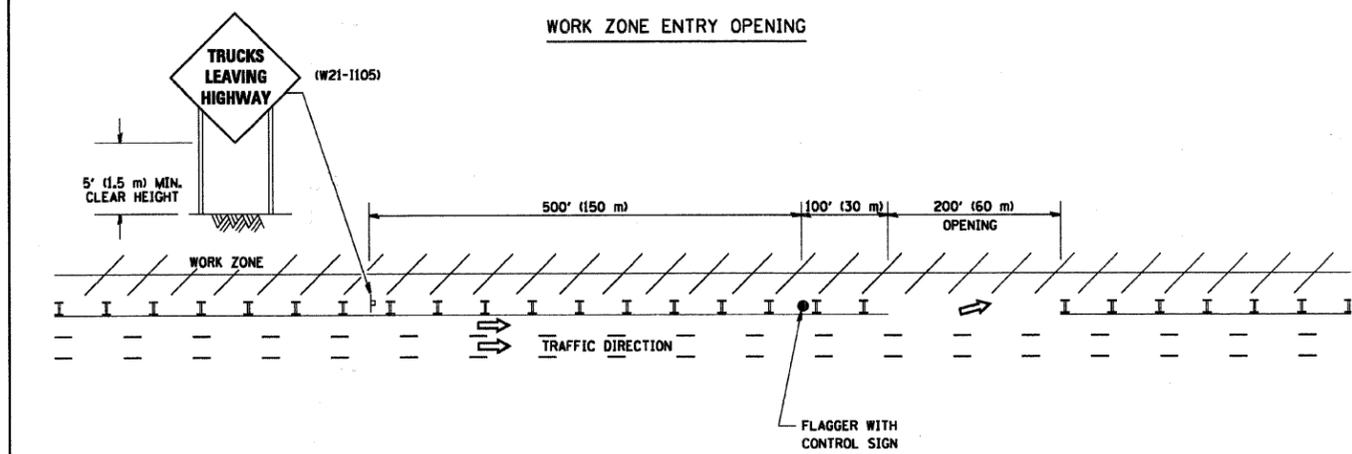
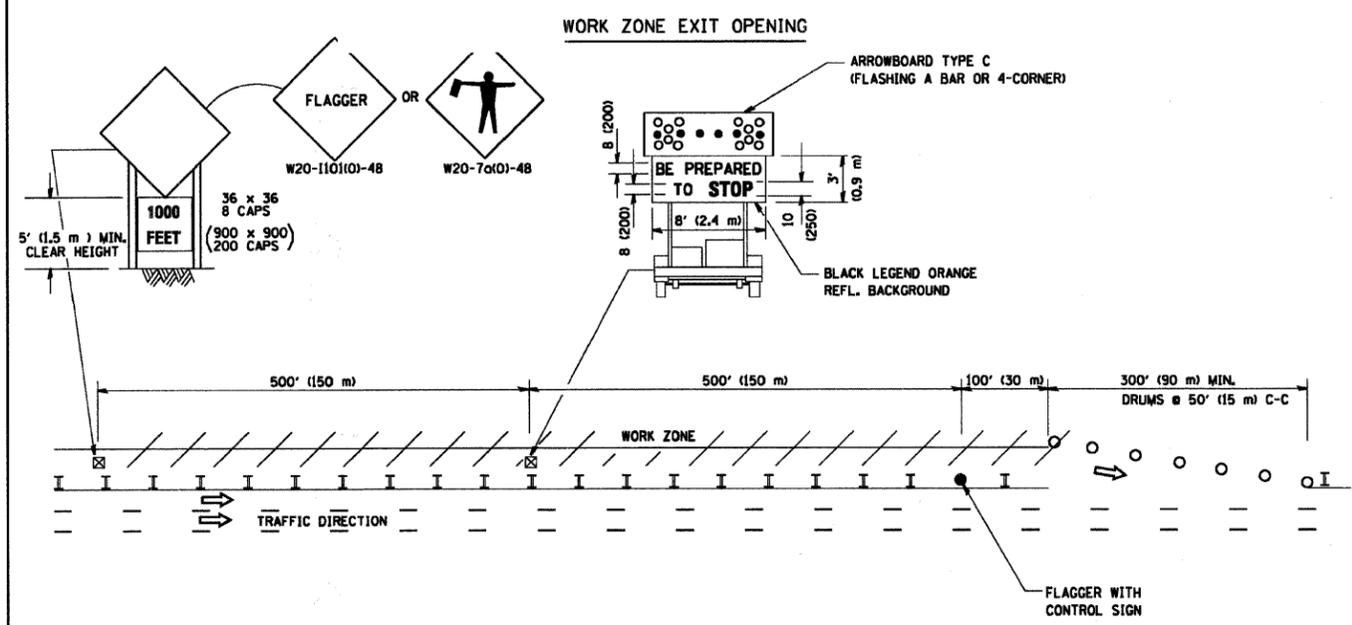
DISTRICT ONE			
TYPICAL PAVEMENT MARKINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NA	09-0092-00-RS	COOK	18	17
TC-13		CONTRACT NO. 63310		
FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT				

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NA	09-00092-00-RS	COOK	18	18
STA.		TO STA.		
FED. ROAD DIST. NO	ILLINOIS	FED AID PROJECT		
C-91-743-09		ARA-9003(537)		

• FAU 2836 ORCHARD DRIVE
CONTRACT NO. 63310

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS



- NOTES:
1. The Arrowboard, the Flagger Ahead trailer mounted sign, and the Trucks Leaving Highway sign shall be removed or turned away from traffic and the exit and entry openings shall be closed when the flagging operation ceases.
 2. Work Zone Exit Openings should be a minimum of one half mile apart.
 3. Exiting the work zone at any place other than at a Work Zone Exit Opening will be prohibited.
 4. All vehicles shall enter the work zone at entry openings, using their turn signals to warn motorists

ALL DIMENSIONS ARE IN INCHES (MILLIMETERS) UNLESS OTHERWISE SHOWN

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 10/27/2009
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FILE NAME = BAXTER	USER NAME = goglienobt	DESIGNED -	REVISED - D.W.S. 08-98
W:\d\st\d\22		DRAWN -	REVISED - J.A.F. 04-03
	PLOT SCALE = 50.000' / IN.	CHECKED -	REVISED - J.A.F. 02-06
	PLOT DATE = 1/4/2009	DATE -	REVISED - S.P.B. 01-07

STATE OF ILLINOIS
DEPARTMENT OF TRANSPORTATION

SIGNING FOR FLAGGING OPERATIONS AT WORK ZONE OPENINGS			
SCALE: NONE	SHEET NO. 1 OF 1 SHEETS	STA.	TO STA.

F.A.U. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
NA	09-00092-00-RS	COOK	18	18
TC-18		CONTRACT NO. 63310		
FED. ROAD DIST. NO. 1		ILLINOIS FED. AID PROJECT		