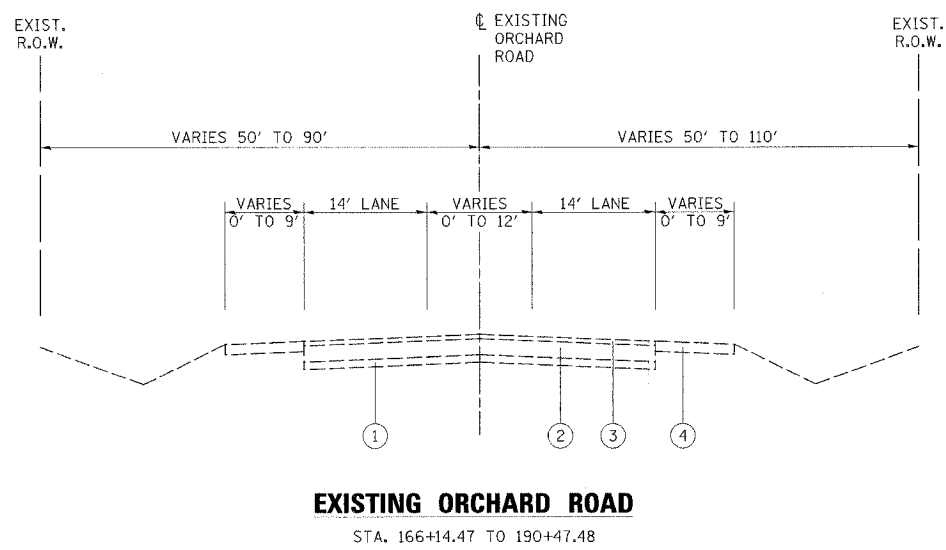
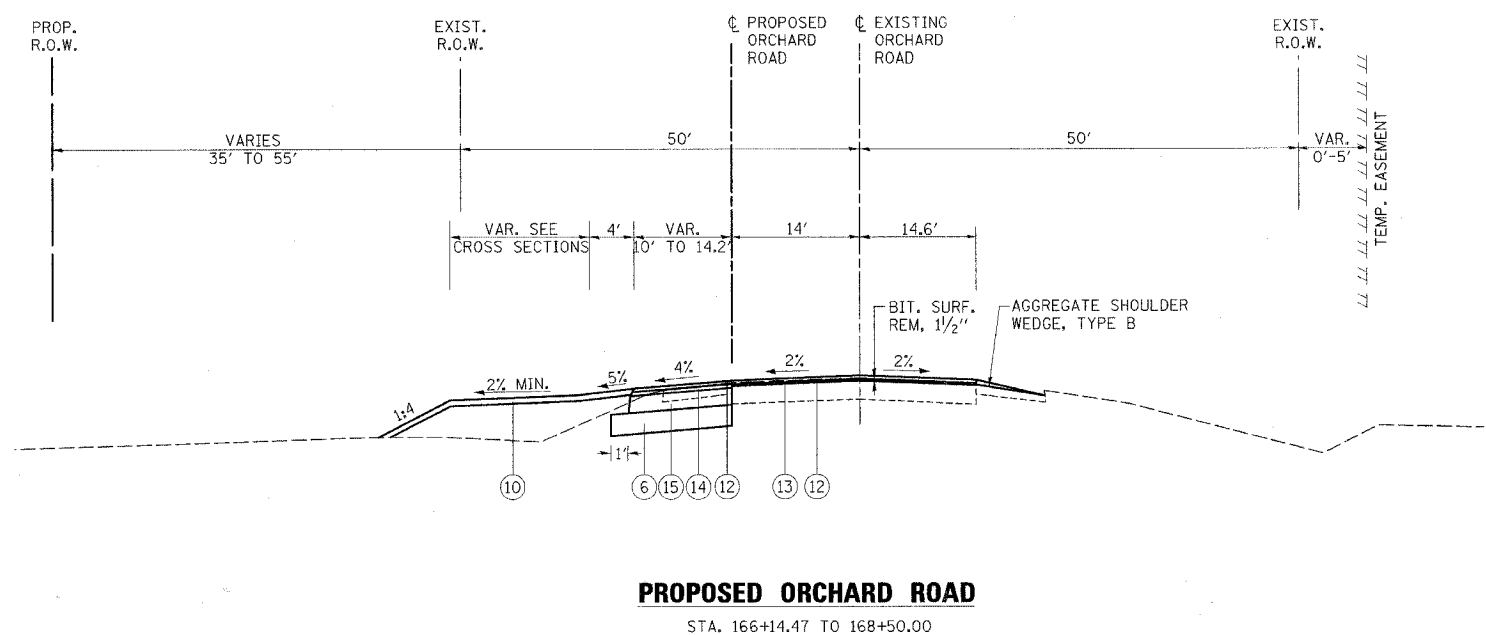


F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	99-00232-00-WR	KANE	97	7
STA.		TO STA.		
FED. ROAD DIST. NO.	ILLINOIS	FED. AID PROJECT		
CONTRACT NO.: 63738				



STRUCTURAL DESIGN TRAFFIC:	Year <u>2020</u>
PV = <u>30,723</u>	SU = <u>1,122</u> MU = <u>1,155</u>
ROAD/STREET CLASSIFICATION:	Class <u>I</u>
PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:	
P = <u>32 %</u>	S = <u>45 %</u> M = <u>45 %</u>
TRAFFIC FACTOR:	Actual TF = <u>6.38</u> AC Type = <u>PG 70-22 (AC-20)</u>
	Minimum TF = <u>3.83</u>
PG GRADE:	Binder = <u>SBS/SBR PG70-22</u> Surface = <u>SBS/SBR PG70-22</u>
SUBGRADE SUPPORT RATING:	
SSR = <u>Poor</u>	Sta. <u>166+14.47</u> to <u>171+62.62</u>



**BITUMINOUS MIX REQUIREMENTS**

PAY ITEM	AC TYPE	VOIDS	MAX RAP %
CLASS D PATCHES, TYPE III, 7" IL-19	PG 64-22	4% @ 70 GYR	15
CLASS D PATCHES, TYPE II, III, 15" IL-19	PG 64-22	4% @ 70 GYR	15
BITUMINOUS REPLACEMENT OVER PATCHES, IL-19	PG 64-22	4% @ 70 GYR	15
BITUMINOUS SHOULDER, SUPERPAVE, 6" & 6 1/2"	PG 58-22	2% @ 30 GYR	50
BITUMINOUS BASE COURSE, SUPERPAVE, 6", 8" & 9 1/2"	PG 58-22	2% @ 50 GYR	50
BITUMINOUS CONCRETE BASE COURSE WIDENING, SUPERPAVE, 8"	PG 58-22	2% @ 50 GYR	50
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N 50	PG 64-22	4% @ 50 GYR	15
BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N 70	PG 64-22	4% @ 70 GYR	10
POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX F, N 90	SBS/SBR PG 70-22	4% @ 90 GYR	0
BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N 70	PG 64-22	4% @ 70 GYR	15
POLYMERIZED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N 90	SBS/SBR PG 70-22	4% @ 90 GYR	0
POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N 50	SBS/SBR PG 76-28	2.5% @ 50 GYR	0

THE UNIT WEIGHT USED TO CALCULATE ALL BITUMINOUS SURFACE MIXTURE QUANTITIES IS 112 POUNDS PER SQUARE YARD PER INCH.  
ADDITIONAL BITUMINOUS MIXTURES ARE SHOWN ON SHEET 16.

**LEGEND**

- ① EXISTING SUB-BASE GRANULAR MATERIAL
- ② EXISTING POZZOLANIC BASE, 8 1/2"
- ③ EXISTING BITUMINOUS OVERLAY, DEPTH VARIES 5" TO 7"
- ④ EXISTING AGGREGATE SHOULDER, 6"
- ⑤ PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)-(STD 420106)
- ⑥ SUB-BASE GRANULAR MATERIAL, TYPE B, 12"
- ⑦ BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX C, N50, 2"
- ⑧ SUB-BASE GRANULAR MATERIAL, TYPE B, 8"
- ⑨ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑩ FURNISHING & PLACING TOPSOIL, 6"
- ⑪ BITUMINOUS SHOULDER, SUPERPAVE, 6"
- ⑫ POLYMERIZED BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX F, N90, 2"
- ⑬ POLYMERIZED LEVELING BINDER (MACHINE METHOD), SUPERPAVE, IL-4.75, N50, 3/4"
- ⑭ POLYMERIZED BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N90, 2 1/4"
- ⑮ BITUMINOUS BASE COURSE, SUPERPAVE, 9 1/2"
- ⑯ BITUMINOUS CONCRETE SURFACE COURSE, SUPERPAVE, MIX D, N70, 1 1/2"
- ⑰ BITUMINOUS CONCRETE BINDER COURSE, SUPERPAVE, IL-19, N70, 2 1/4"
- ⑱ BITUMINOUS BASE COURSE WIDENING, SUPERPAVE, 8"
- ⑲ EXISTING BITUMINOUS PAVEMENT, THICKNESS AS NOTED
- ⑳ STRIP REFLECTIVE CRACK CONTROL
- ㉑ BITUMINOUS SHOULDER, SUPERPAVE, 6 1/2"
- ㉒ NOT USED
- ㉓ SAWED LONGITUDINAL JOINT WITH EPOXY COATED #6x30" TIE BARS @ 30" CTS. (COST OF SAW CUT AND TIE BAR INCLUDED WITH PCC PAVEMENT)
- ㉔ LONGITUDINAL CONSTRUCTION JOINT WITH DRILL AND GROUT EPOXY COATED #6x24" TIE BARS @ 24" CTS. (COST OF TIE BARS AND PLACEMENT INCLUDED WITH PCC PAVEMENT)
- ㉕ EPOXY COATED #6x24" TIE BARS @ 24" CTS. (COST OF TIE BARS AND PLACEMENT INCLUDED WITH PCC PAVEMENT)
- ㉖ PAVEMENT REMOVAL (1 1/2" AVG.)
- ㉗ EXISTING BITUMINOUS SHOULDER

**ringroup**  
Excellence through Ownership  
200 West Front Street  
Wheaton, IL 60187

REVISIONS	
NAME	DATE

ILLINOIS DEPARTMENT OF TRANSPORTATION  
KANE COUNTY DIVISION OF TRANSPORTATION  
ORCHARD ROAD RECONSTRUCTION  
**ORCHARD ROAD  
TYPICAL SECTIONS**

SCALE: VERT. \_\_\_\_\_  
HORIZ. \_\_\_\_\_  
DATE: 11/04/05

DRAWN BY: RJN  
CHECKED BY: SPF

11/6/2005 10:42:15 AM K:\117700\Ccd\Design\117700\_TYP\_SEC.dgn