



STRUCTURAL DESIGN TRAFFIC:	Year <u>2020</u>
PV = <u>35,530</u>	SU = <u>1,140</u> MU = <u>1,330</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>9.85</u>
	Minimum TF = <u>6.03</u>
12' LANE TIED SHOULDER OR CURB & GUTTER	
SUBGRADE SUPPORT RATING:	SSR = <u>Poor</u> (Sta. <u>111+22.39</u> to <u>190+47.48</u>)

- LEGEND**
- ① EXISTING SUB-BASE GRANULAR MATERIAL
 - ② EXISTING POZZOLANIC BASE, 8 1/2"
 - ③ EXISTING HOT-MIX ASPHALT OVERLAY, DEPTH VARIES 5" TO 7"
 - ④ EXISTING AGGREGATE SHOULDER, 6"
 - ⑤ PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)-(STD 420106)
 - ⑥ AGGREGATE SUBGRADE, 12"
 - ⑦ HOT-MIX ASPHALT SURFACE COURSE, 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 HOT-MIX ASPHALT SHOULDER, 6" (IN 3 LIFTS)
 - ⑫ POLYMERIZED HOT-MIX ASPHALT CONCRETE SURFACE COURSE, MIX "F", N90, 2"
 - ⑬ LEVELING BINDER (MACHINE METHOD), N70, 3/4"
 - ⑭ POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19, N90, 2 1/4"
 - ⑮ HOT-MIX ASPHALT BASE COURSE, 9 1/2" (IN 4 LIFTS)
 - ⑯ HOT-MIX ASPHALT SURFACE COURSE, MIX D, N70, 1 1/2"
 - ⑰ HOT-MIX ASPHALT, IL-19, N70, 2 1/4"
 - ⑱ HOT-MIX ASPHALT BASE COURSE WIDENING, 8" (IN 3 LIFTS)
 - ⑲ EXISTING HOT-MIX ASPHALT PAVEMENT, THICKNESS AS NOTED
 - ⑳ HOT-MIX ASPHALT SHOULDER, 8" (IN 3 LIFTS)
 - ㉑ STRIP REFLECTIVE CRACK CONTROL
 - ㉒ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
 - 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 EXISTING PCC PAVEMENT
 - ㉗ EXISTING PCC COMBINATION CURB & GUTTER
 - ㉘ EXISTING HOT-MIX ASPHALT MULTI-USE PATH
 - ㉙ SUITABLE EXCAVATED FILL MATERIAL
 - ㉚ AGGREGATE SUBGRADE, 4" (INCLUDED IN COST OF HMA SHOULDERS)

43.9999 / IN.
 1/20/2011
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200 West Front Street
Wheaton, IL 60187

DESIGNED - MK	REVISED -
DRAWN - DW	REVISED -
CHECKED - MH	REVISED -
DATE - 12/20/2010	REVISED -

**KANE COUNTY
DIVISION OF TRANSPORTATION
ORCHARD ROAD RECONSTRUCTION**

SCALE: N/A	SHEET NO. 4 OF 5 SHEETS	STA. TO STA.
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**ORCHARD ROAD
TYPICAL SECTIONS**

F.A.P. RTE.	SECTION	COUNTY	TOTAL SHEETS	SHEET NO.
336	99-00232-01-WR	KANE	215	13
CONTRACT NO. 63541			ILLINOIS FED. AID PROJECT	