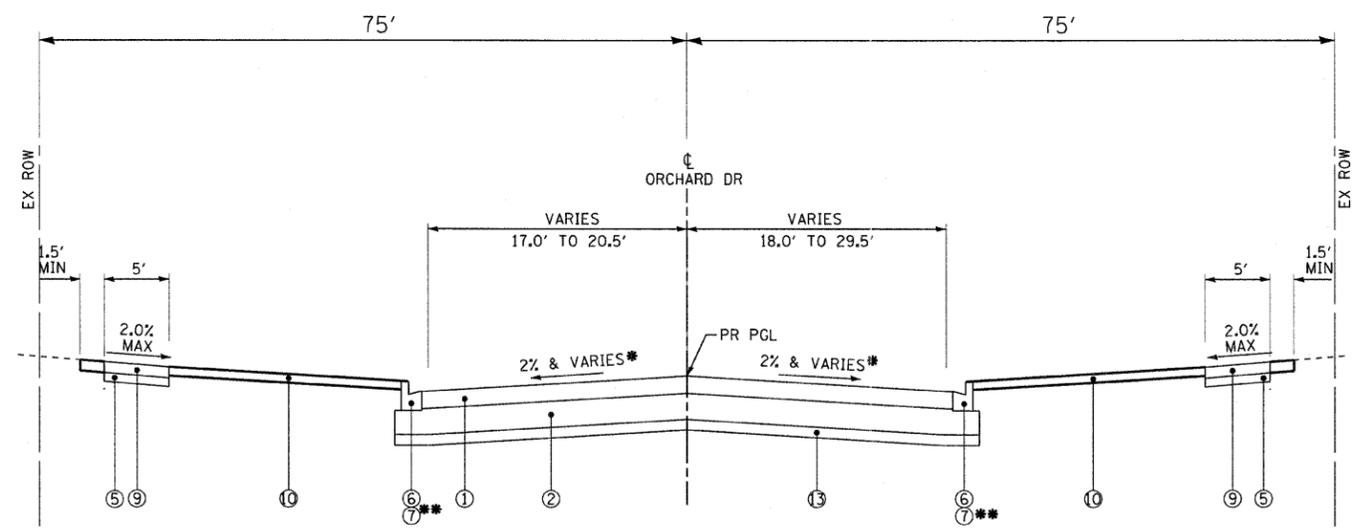


**EXISTING TYPICAL SECTION
ORCHARD DRIVE**

STA 145+80 TO STA 159+30
STA 181+97 TO STA 197+26



**PROPOSED TYPICAL SECTION
ORCHARD DRIVE**

STA 145+80 TO STA 159+30
STA 181+97 TO STA 197+26

* SEE PLAN & PROFILE SHEETS FOR CROSS SLOPE IN SUPERELEVATED SECTIONS
** STA 186+00 TO STA 191+16

STRUCTURAL DESIGN DATA

| STREET | STRUCTURAL DESIGN TRAFFIC 2022 | | | STREET CLASS | TRAFFIC FACTOR | SSR | TEMP | STRAIN | AC | EAC | REQ'D BIT THICKNESS | MECHANISTIC PAVEMENT DESIGN |
|------------|--------------------------------|----------|--|--------------|----------------|------|------|--------|----------|-----|---------------------|---|
| | PV | SU / MU | | | | | | | | | | |
| ORCHARD DR | 7716 | 325 / 81 | | I | 0.593 | POOR | 78.2 | 160 | PG 64-28 | 590 | 7 3/4" | 2" HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 (IL-9.5mm) 6" HOT-MIX ASPHALT BASE COURSE (HMA BINDER IL-19mm) |

PROPOSED LEGEND

- ① HOT-MIX ASPHALT PAVEMENT (FULL-DEPTH), 8"
- ② AGGREGATE SUBGRADE 12"
- ③ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50, 1 1/2"
- ④ HOT-MIX ASPHALT BASE COURSE, 6"
- ⑤ AGGREGATE BASE COURSE, TYPE B 4"
- ⑥ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.12
- ⑦ COMBINATION CONCRETE CURB AND GUTTER, TYPE B-6.24
- ⑧ CONCRETE CURB, TYPE B
- ⑨ PORTLAND CEMENT CONCRETE SIDEWALK 5 INCH
- ⑩ TOPSOIL FURNISH & PLACE, 4"
- (SEE LANDSCAPING PLANS FOR SEEDING & SODDING LOCATIONS)
- ⑪ CLASS D PATCHES, 6"
- ⑫ POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50 3/4" MIN
- ⑬ POROUS GRANULAR EMBANKMENT, SUBGRADE 6-INCH
- ⑭ PCC BASE COURSE WIDENING, 6"
- ⑮ CONCRETE MEDIAN, TYPE SB-6.12
- ⑯ CLASS B PATCHES
- ⑰ PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)
- ⑱ STRIP REFLECTIVE CRACK CONTROL
- ⑲ HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N50 2 1/4"
- ⑳ CONCRETE MEDIAN, TYPE M-2.12
- ㉑ CONSTRUCTION JOINT WITH TIE BARS (INCLUDED IN THE COST OF THE PROPOSED PAVEMENT)

EXISTING LEGEND

- 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
- F SIDEWALK
- G PCC PAVEMENT, 10"
- H HOT-MIX ASPHALT SURFACE REMOVAL, 2 1/4"
- I PAVEMENT REMOVAL
- J CONCRETE MEDIAN
- Item to be removed

SOILS NOTE:

POROUS GRANULAR EMBANKMENT, SUBGRADE HAS BEEN PROVIDED TO REPLACE SOILS WHICH TEND TO BE UNSTABLE WHEN WET. THE ACTUAL NEED FOR REMOVAL AND REPLACEMENT WITH PCES WILL BE DETERMINED IN THE FIELD AT THE TIME OF CONSTRUCTION BY THE ENGINEER. IF UNSTABLE SOILS ARE ENCOUNTERED THE SOILS SHALL BE REMOVED AND REPLACED WITH PCES. THE REMOVAL AND REPLACEMENT AREA SHALL EXTEND TO 12 INCHES BEYOND THE CURB AND GUTTER AND COME UP AT A 1:1 SLOPE TO EXISTING GROUND SURFACE. THESE LIMITS MAY BE ALTERED BY THE ENGINEER IF FIELD CONDITIONS WARRANT. REMOVAL OF THESE UNSUITABLE SOILS SHALL BE PAID FOR AS "REMOVAL AND DISPOSAL OF UNSUITABLE MATERIAL."

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 STATE OF ILLINOIS - PROFESSIONAL DESIGN FIRM
 265 N. WASHINGTON ST., SUITE 200
 CHICAGO, IL 60610
 TEL: 312.467.1000
 FAX: 312.467.1001
 E-MAIL: INFO@BAXTERANDWOODMAN.COM
 PROJECT: 06-00090-00-FP
 SHEET: 200 OF 211
 DATE: 10/24/11



| | |
|-----------------|-------------------------------|
| DESIGNED - TAO | REVISED - |
| DRAWN - MAC | REVISED - |
| CHECKED - TAO | REVISED - |
| DATE - 10/24/11 | FILE - 060670-PH2-TYPICAL.sht |

**STATE OF ILLINOIS
ORCHARD DRIVE IMPROVEMENTS**

TYPICAL SECTIONS

| | | | | | | | |
|--------|------|---------|---|------------------------|-------------|------------------|--------------|
| SCALE: | STA. | TO STA. | F.A.J. RTE. 2836 | SECTION 06-00090-00-FP | COUNTY COOK | TOTAL SHEETS 200 | SHEET NO. 11 |
| | | | FED. ROAD DIST. NO. 1 ILLINOIS FED. AID PROJECT M-800366D | | | | |