

HOT-MIX ASPHALT MIXTURE

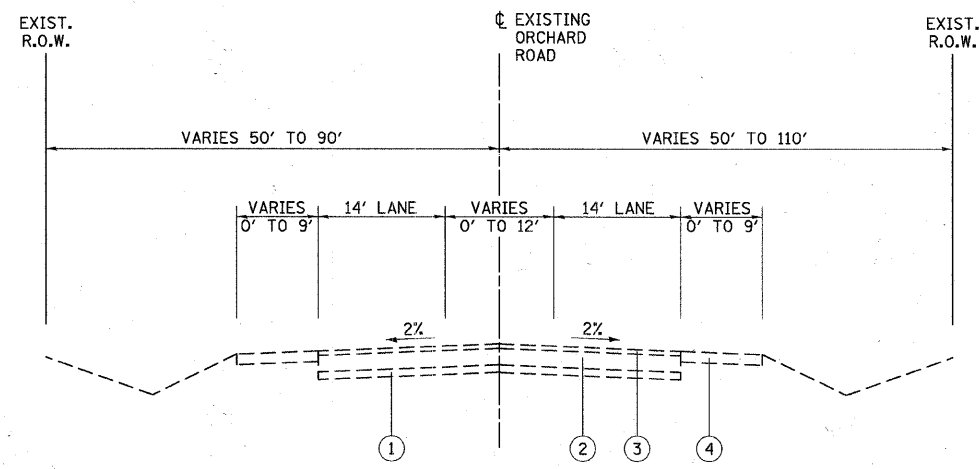
| MIXTURE | AIR VOIDS (%) | THICKNESS | STREET |
|--|---------------|------------------|----------------------------|
| POLYMERIZED HOT-MIX ASPHALT SURFACE COURSE, MIX "F", N90 (IL 9.5 mm) | 4% @ 90 GYR. | 2" (3 LIFTS) | ORCHARD ROAD |
| POLYMERIZED HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N90 | 4% @ 90 GYR. | 2 1/4" | ORCHARD ROAD |
| HOT-MIX ASPHALT BASE COURSE (HMA BINDER, IL-19mm) | 4% @ 90 GYR. | 9 1/2" (4 LIFTS) | ORCHARD ROAD |
| HOT-MIX ASPHALT BINDER COURSE IL-19.0, N70 | 4% @ 70 GYR. | 2 1/4" | AUCUTT ROAD & KNELL ROAD |
| HOT-MIX ASPHALT SHOULDERS (HMA BINDER, IL-19mm) | 2% @ 30 GYR. | 6" (3 LIFTS) | ORCHARD ROAD |
| HOT-MIX ASPHALT SHOULDERS (HMA BINDER, IL-19mm) | 2% @ 30 GYR. | 8" (3 LIFTS) | AUCUTT RD. & ROCHESTER DR. |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "C", N50 (IL-9.5mm) | 4% @ 50 GYR. | 2" | MULTI-USE PATH |
| HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm) | 4% @ 70 GYR. | 1 1/2" | AUCUTT, KNELL & ROCHESTER |
| HOT-MIX ASPHALT BASE COURSE WIDENING (HMA BINDER, IL-19mm) | 4% @ 70 GYR. | 8" (3 LIFTS) | AUCUTT ROAD & KNELL ROAD |
| LEVELING BINDER (MACHINE METHOD), N70 (IL 9.5 mm) | 4% @ 70 GYR. | 3/4" | AUCUTT, KNELL & ROCHESTER |
| CLASS D PATCHES (HMA BINDER, IL-19 mm) | 4% @ 70 GYR. | 10" (4 LIFTS) | ORCHARD ROAD |
| HOT-MIX ASPHALT REPLACEMENT OVER PATCHES (HMA BINDER, IL-19 mm) | 4% @ 70 GYR. | 4" (2 LIFTS) | ORCHARD ROAD |
| HOT-MIX ASPHALT DRIVEWAY PAVEMENT (HMA BINDER, IL-19 mm) | 4% @ 50 GYR. | 6" (3 LIFTS) | DRIVEWAYS |
| TEMPORARY PAVEMENT (HMA BINDER, IL-19 mm) | 4% @ 50 GYR. | 10" (4 LIFTS) | ALL ROADS |

THE UNIT WEIGHT USED TO CALCULATE ALL HOT-MIX ASPHALT SURFACE MIXTURES 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.

LEGEND

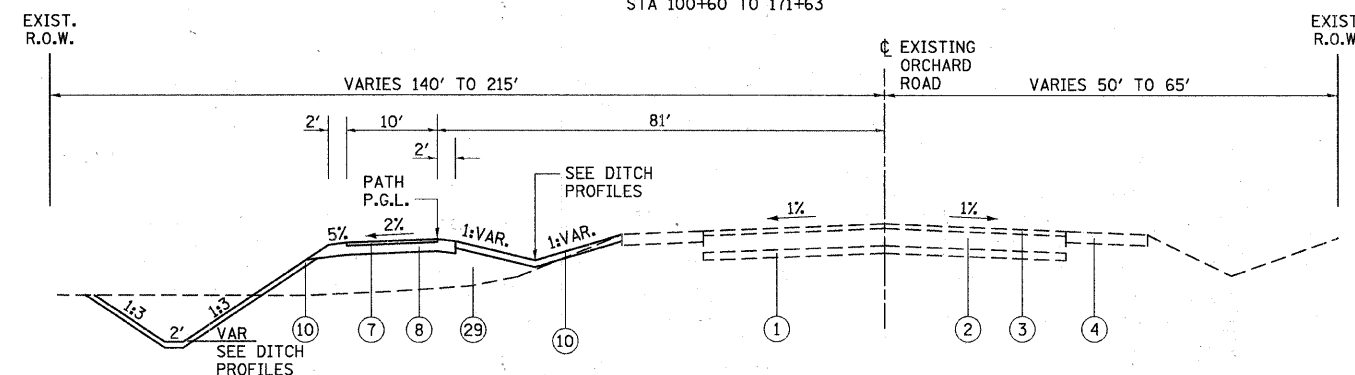
- ① EXISTING SUB-BASE GRANULAR MATERIAL
- ② EXISTING POZZOLANIC BASE, 8 1/2"
- ③ EXISTING HOT-MIX ASPHALT OVERLAY, DEPTH VARIES 5" TO 7"
- ④ EXISTING AGGREGATE SHOULDER, 6"
- ⑤ PORTLAND CEMENT CONCRETE PAVEMENT 10" (JOINTED)-(STD 420106)
- ⑥ AGGREGATE SUBGRADE, 12"
- ⑦ HOT-MIX ASPHALT SURFACE COURSE, 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)



STRUCTURAL DESIGN TRAFFIC: Year 2020
 PV = 30,723 SU = 1,122 MU = 1,155
 ROAD/STREET CLASSIFICATION: Class I
 PERCENT OF STRUCTURAL DESIGN TRAFFIC IN DESIGN LANE:
 P = 32 % S = 45 % M = 45 %
 TRAFFIC FACTOR: Actual TF = 6.38 AC Type = PG 70-22 (AC-20)
 Minimum TF = 3.83
 PG GRADE: Binder = SBS/SBR PG70-22 Surface = SBS/SBR PG70-22
 SUBGRADE SUPPORT RATING:
 SSR = Poor (Sta. 104+89.01 to 111+22.39)

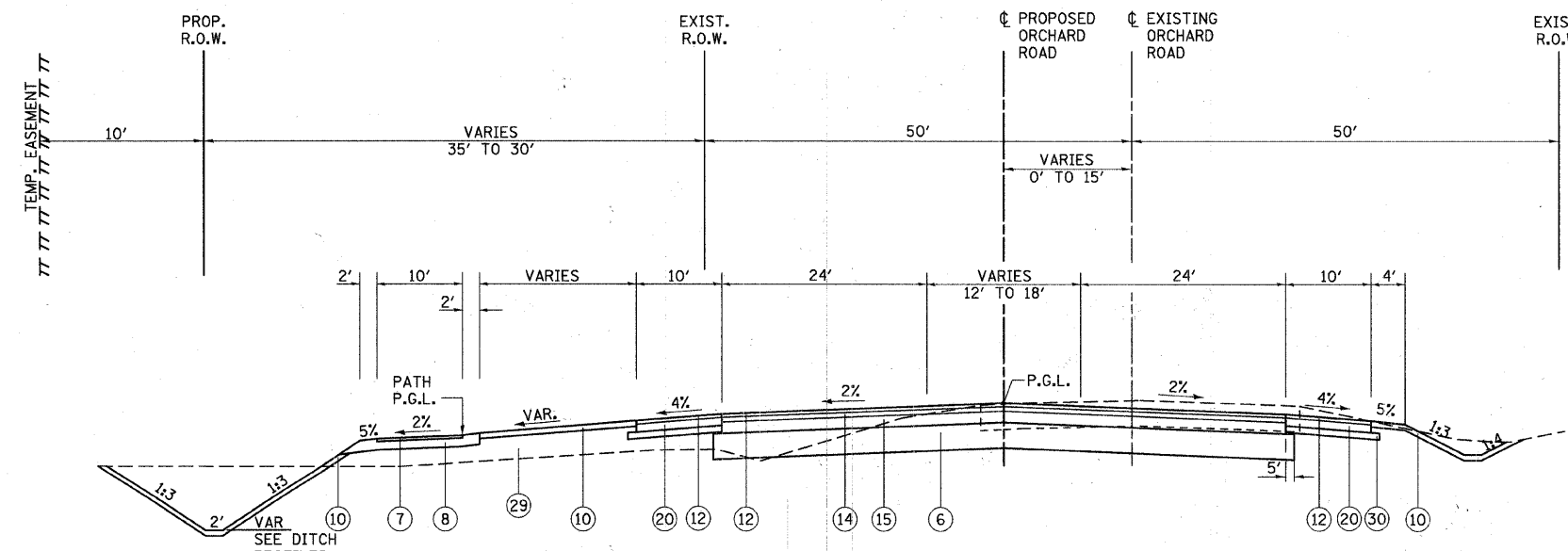
EXISTING ORCHARD ROAD

STA 100+60 TO 171+63



PROPOSED ORCHARD ROAD

STA 100+60 TO 104+89.01



PROPOSED ORCHARD ROAD

STA. 104+89.01 TO 111+22.39
 CORRUGATED MEDIAN
 STA 110+23.35 TO 111+22.39