

EXISTING EVERETT ROAD AND RIVERWOODS ROAD

FLEXIBLE PAVEMENT DESIGN:

RIVERWOODS ROAD:

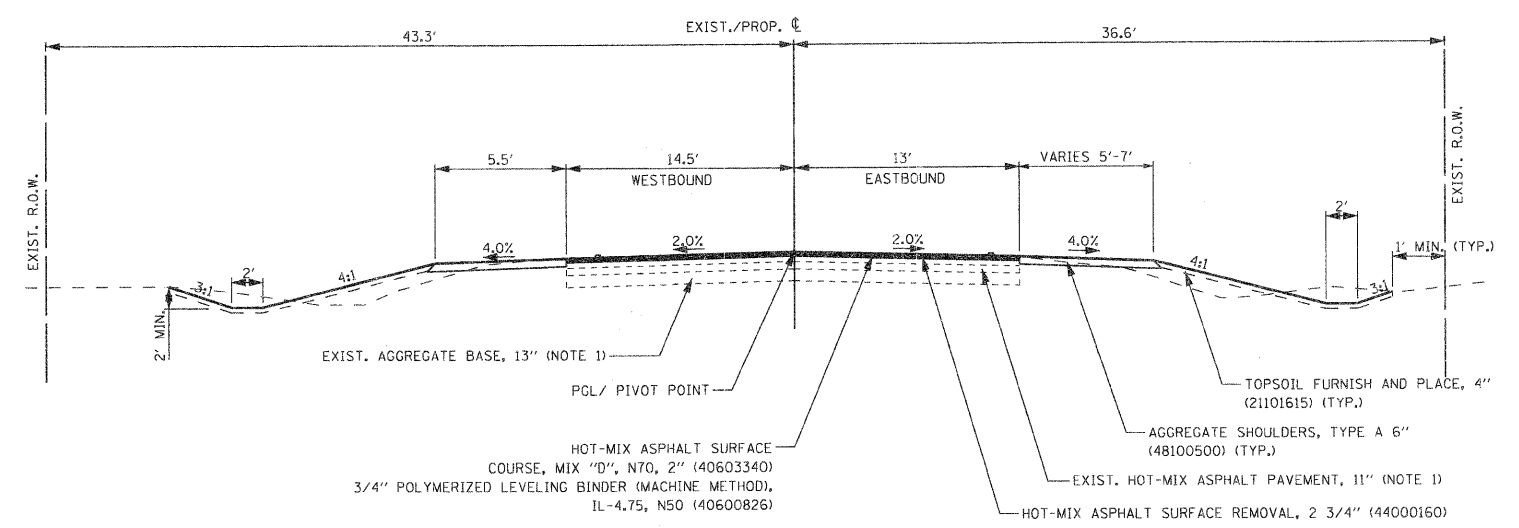
DATE = 08/19/2009
 PROJECT = RIVERWOODS ROAD AT EVERETT ROAD ROUNDABOUT
 YEAR OF ADT = 2008
 ADT = 10800
 ANNUAL GROWTH PERCENTAGE (NON-COMPOUNDED) = 3%
 GROWTH = 3% PER YEAR x 1/2 DESIGN PERIOD x ADT = 3888
 SPECIAL ADJUSTMENTS FOR KNOWN DEVELOPMENT, ETC. = 0
 DESIGN PERIOD IN YEARS = 20
 CONSTRUCTION YEAR = 2010
 STRUCTURAL DESIGN TRAFFIC (SDT) = 14688
 PC = 96.40% = 14159
 SU = 3.10% = 455
 MU = 0.50% = 73
 LOAD LIMIT (73,280 STANDARD) OR 80,000 = 80,000
 CLASS ROAD (1,2,3,4) = 2
 SUBGRADE SUPPORT RATING = POOR
 DESIGN TRAFFIC FACTOR (TF) = 0.81
 SELECTED DESIGN AC TYPE = PG64-22
 DESIGN AC MIXTURE TEMPERATURE (DEGREES F) = 76
 DESIGN HOT-MIX ASPHALT CONCRETE MODULUS = 650
 DESIGN AC MICROSTRAIN = 115
 PAVEMENT THICKNESS REQUIRED (INCHES) = 9
 SUBGRADE = 12

EVERETT ROAD:

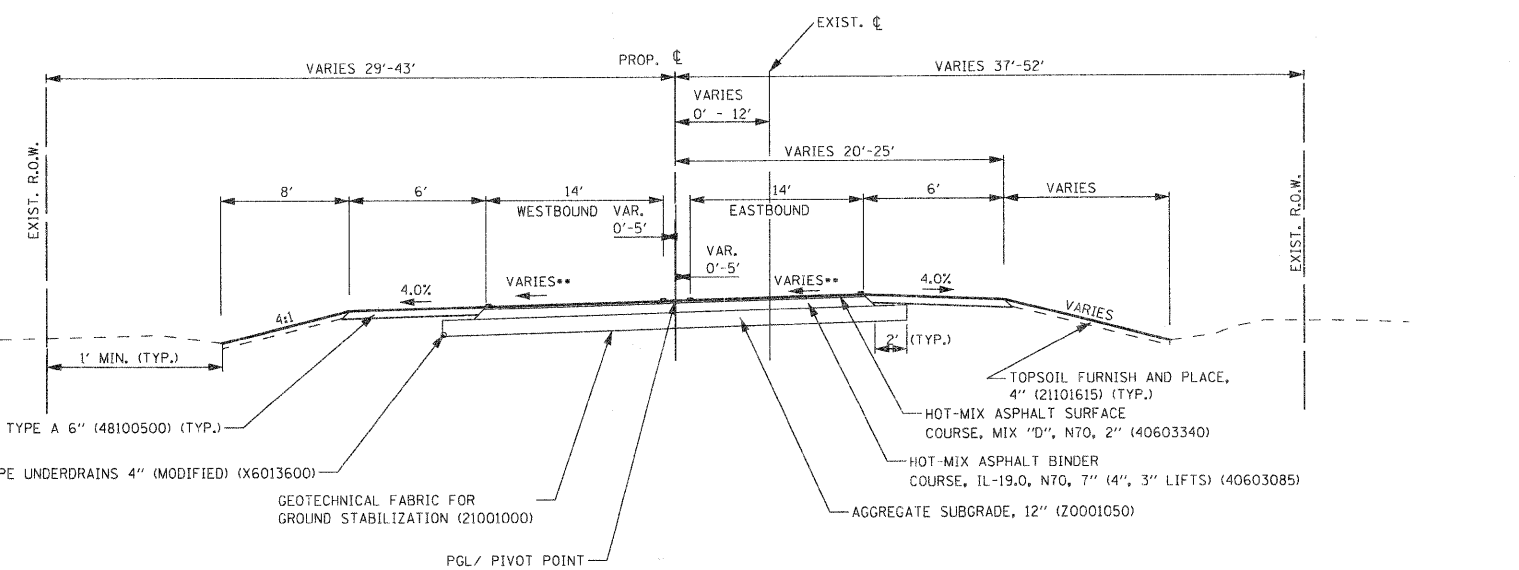
DATE = 08/19/2009
 PROJECT = RIVERWOODS ROAD AT EVERETT ROAD ROUNDABOUT
 YEAR OF ADT = 2008
 ADT = 6750
 ANNUAL GROWTH PERCENTAGE (NON-COMPOUNDED) = 3%
 GROWTH = 3% PER YEAR x 1/2 DESIGN PERIOD x ADT = 2430
 SPECIAL ADJUSTMENTS FOR KNOWN DEVELOPMENT, ETC. = 0
 DESIGN PERIOD IN YEARS = 20
 CONSTRUCTION YEAR = 2010
 STRUCTURAL DESIGN TRAFFIC (SDT) = 9180
 PC = 98.30% = 9024
 SU = 1.50% = 138
 MU = 0.20% = 18
 LOAD LIMIT (73,280 STANDARD) OR 80,000 = 80,000
 CLASS ROAD (1,2,3,4) = 2
 SUBGRADE SUPPORT RATING = POOR
 DESIGN TRAFFIC FACTOR (TF) = 0.24
 SELECTED DESIGN AC TYPE = PG64-22
 DESIGN AC MIXTURE TEMPERATURE (DEGREES F) = 76
 DESIGN HOT-MIX ASPHALT CONCRETE MODULUS = 650
 DESIGN AC MICROSTRAIN = 230
 PAVEMENT THICKNESS REQUIRED (INCHES) = 6
 SUBGRADE = 12

NOTE: RIVERWOODS ROAD PAVEMENT DESIGN WILL BE USED THROUGHOUT THE PROJECT.

EXISTING PAVEMENT THICKNESS		
LOCATION	APPROX. ASPHALT THICKNESS	APPROX. AGGREGATE THICKNESS
Everett W Leg	11"	13"
Everett E Leg	11"	9"
Riverwoods S Leg	10.5"	12"
Riverwoods N Leg	13.25"	11"



**PROPOSED EVERETT ROAD
 STA. 3273+90 TO STA. 3274+40**



**PROPOSED EVERETT ROAD
 STA. 3274+40 TO STA. 3277+71**

- NOTES:
 1. APPROXIMATE AGGREGATE AND ASPHALT THICKNESSES ON WEST LEG OF EVERETT ROAD.
 ** VARIES FROM 2.0% TO 3.0%. SEE CROSS SECTIONS FOR SPECIFIC RATES.

* DENOTES PAVEMENT MARKING. SEE MARKING PLAN FOR TYPE.

HOT-MIX ASPHALT MIXTURE REQUIREMENTS	
MIXTURE TYPE	AIR VOIDS @ Ndes
PAVEMENT RESURFACING	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% @ 70 Gyr.
POLYMERIZED LEVELING BINDER (MACHINE METHOD), IL-4.75, N50	4% @ 50 Gyr.
FULL DEPTH PAVEMENT	
HOT-MIX ASPHALT SURFACE COURSE, MIX "D", N70 (IL 9.5 mm)	4% @ 70 Gyr.
HOT-MIX ASPHALT BINDER COURSE, IL-19.0, N70	4% @ 70 Gyr.
TEMPORARY PAVEMENT	
TEMP PAVEMENT (HMA BINDER IL-19 mm); 8"	4% @ 50 Gyr.

THE UNIT WEIGHT USED TO CALCULATE ALL HMA SURFACE MIXTURE QUANTITIES 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.

CONTRACTOR SHALL MILL BEFORE PATCHING.

REVISIONS / REMARKS					
NO.	DESCRIPTION	DATE	BY	DESIGNED BY:	JRM
				CHECKED BY:	MPK/JLC
				DATE:	1/22/2010



EVERETT ROAD		ROUTE	SECTION	SECTION NUMBER	SHEET	SHEETS
TYPICAL SECTIONS		CH	136	04-00136-06-CH	22	107

63415