

Figure 19.4.1-1 – Conceptual Rendering of SHINE Facility

View of SHINE Facility from U.S. Highway 51, Looking Southeast



View of SHINE Facility from East

STORMWATER BYPASS DITCH. LOCATION, DESIGN, EROSION CONTROL AND FINAL SURFACING PENDING. AGRICULTURE FIELD N 229500 APPROXIMATE LOCATION OF EXISTING CULVERT UNDER HIGHWAY DITCH FLOW CONSTRUCTION ENTRANCE MATERIAL LAYDOWN AND ASSEMBLY AREA (* 0.5 ACRE) EXTERIOR STORMWATER RUNON DIVERSION BERM AND DITCH PROPERTY LINE PERIMETER VEGETATIVE BUFFER STRIP MAIN FACILITY HIGHPOINT ROUGH GRADE AT BUILDING PERIMETER EL.826.0 N 229000 EXISTING ROAD SIDE DRAINAGE -MATERIAL LAYDOWN AND ASSEMBLY AREA (1 ACRE) AGRICULTURE FIELD SED I MENT STRUCTURE - INTERIOR PERIMETER SEEDED DITCH SILT FENCE-REDIRECTED FROM FIELD RUNOFF SILT FENCE SEDIMENT TRAP (TYP) TEMPORARY TOPSOIL STOCKPILE LEGEND CONSTRUCTION LAYDOWN AREA AND PARKING

Figure 19.4.1-2 – SHINE Facility Construction Grading Plan

CAM 2 CITY PROPOSED 16" WATERMAIN TLD 8 CITY PROPOSED 10" SANITARY SEWER TLD 5 AGRICULTURE FIELD N 229500 -VEHICLE INSPECTION AND REJECTION TURNAROUND DITCH FLOW UNDERGROUND ELECTRICAL EXISTING AND PROPOSED VEHICLE ACCESS - SEEDED DRATNAGE DITCH DIESEL GENERATOR ELECTRIC TRANSFORMERS EXTERIOR STORMWATER RUNON DIVERSION BERM AND SEEDED DITCH VISITOR PARKING - OUTDOOR STORAGE TLD 2 PERIMETER VEGETATIVE BUFFER STRIP PROPOSED TREES.
ONE PER 50 LF
ALONG HIGHWAY
FRONTAGE HIGHPOINT FINISHED SURFACE AT BUILDING PERIMETER EL.827.0 ADMINISTRATION
BUILDING FINISHED
FOUNDATION EL.824.0
HIGH POINT FINISHED
SURFACE AT BUILDING
PERIMETER EL.823.0— WATER COOLING
EQUIPMENT
(IF NEEDED)
FINISHED FOUNDATION
EL.828.0 FLOW SPREADER CAM 3 4' WIDE LANDSCAPING BERM EL.814 TLD 7 TLD 6 TLD 4 CENTER POINT LATITUDE: 42.62413889 LONGITUDINAL: 89.02486 EXISTING ROAD --TOP OF BERM CAM 4 - VENT STACK TEMPORARY DISTURBANCE AREA - WASTE STACING AND SHIPPING BUILDING - PERIMETER PAVEMENT EL. 826 PEDESTRIAN ACCESS ONL 0 TLD 3 FIRE PROTECTION WATER SUPPL TRUCK TURNAROUND. UNLOADING, AND TEMPORARY PARKING AGRICULTURE FIELD PERMANENT STONE N 228500 EDGE OF SECURITY FENCE TOP OF BERM INTERIOR PERIMETER SEEDED DITC STORMWATER VEGETATED SWALE (BIO RETENTION. INFILTRATION. AND DETENTION. PERMIT PENDING) TEMPORARY DISTURBANCE AREA - EXISTING EXISTING SEWER PERIMETER 3 WIRE FENCE AT PROPERTY LINE CAM 5 TLD 9

Figure 19.4.8-1 – Locations of Environmental Monitors

Figure 19.4.10-1 – Population Density for Transportation Route to Andrews, Texas (Sheet 1 of 5)

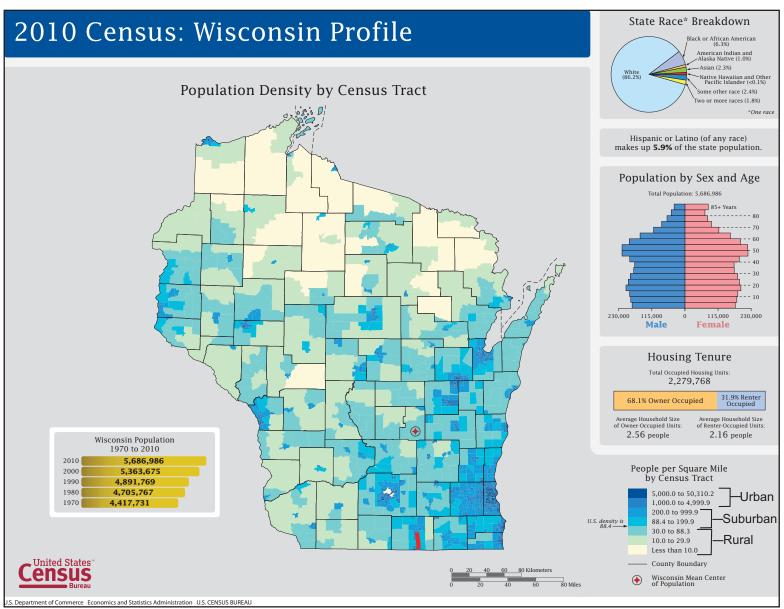
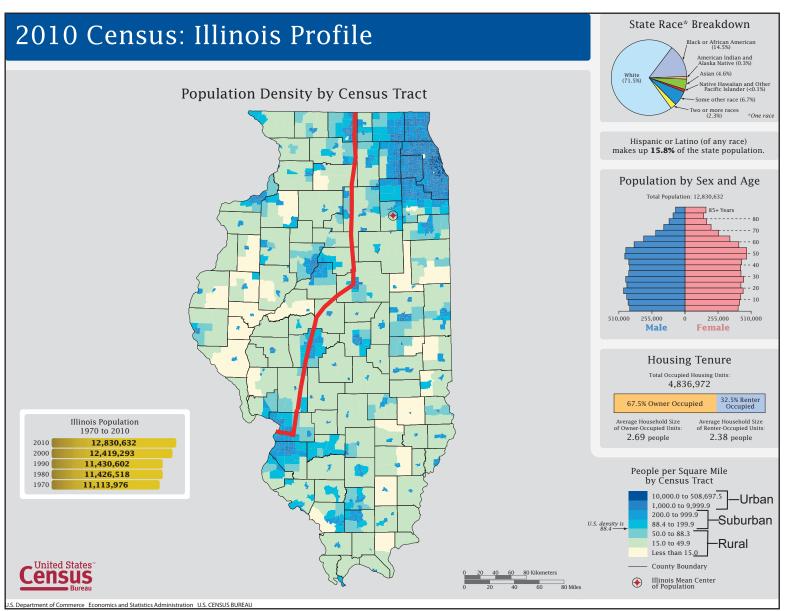


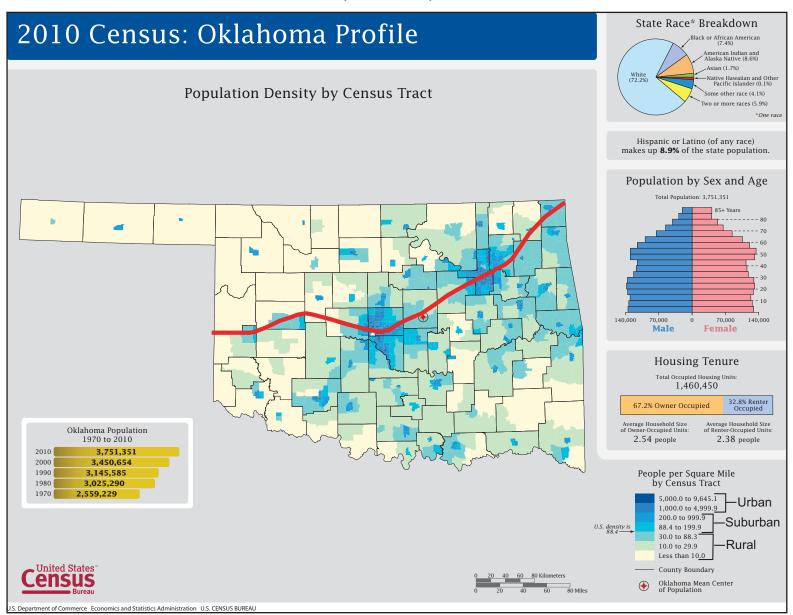
Figure 19.4.10-1 – Population Density for Transportation Route to Andrews, Texas (Sheet 2 of 5)



State Race* Breakdown 2010 Census: Missouri Profile Black or African American / (11.6%) American Indian and Alaska Native (0.5%) Asian (1.6%) -Native Hawaiian and Other Pacific Islander (0.1%) White (82.8%) Some other race (1.3%) Population Density by Census Tract Two or more races (2.1%) Missouri Population 1970 to 2010 Hispanic or Latino (of any race) makes up 3.5% of the state population. 5,988,927 2010 2000 5,595,211 1990 5,117,073 Population by Sex and Age 1980 4,916,686 Total Population: 5,988,927 1970 4,676,501 - 10 230,000 115,000 115,000 230,000 **Female Housing Tenure** Total Occupied Housing Units: 2.375.611 31.2% Renter Occupied 68.8% Owner Occupied Average Household Size of Owner-Occupied Units: Average Household Size of Renter-Occupied Units: 2.54 people 2.25 people People per Square Mile by Census Tract 5,000.0 to 13,329.5 -Urban 1,000.0 to 4,999.9 200.0 to 999.9 -Suburban 88.4 to 199.9 30.0 to 88.3 Rural 10.0 to 29.9 Less than 10.0 County or City Boundary Missouri Mean Center of Population ent of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU

Figure 19.4.10-1 – Population Density for Transportation Route to Andrews, Texas (Sheet 3 of 5)

Figure 19.4.10-1 – Population Density for Transportation Route to Andrews, Texas (Sheet 4 of 5)



State Race* Breakdown 2010 Census: Texas Profile Black or African American American Indian and Alaska Native (0.7%) Asian (3.8%) ative Hawaiian and Other Pacific Islander (0.1%) Population Density by Census Tract ome other race (10.5%) wo or more races (2.7%) Texas Population 1970 to 2010 Hispanic or Latino (of any race) 25,145,561 makes up 37.6% of the state population. 2000 20,851,820 1990 16,986,510 1980 14,229,191 Population by Sex and Age 1970 **11,196,730** Total Population: 25,145,561 40 30 20 10 1,000,000 500,000 500,000 1,000,000 **Female Housing Tenure** Total Occupied Housing Units: 8,922,933 36.3% Renter Occupied 63.7% Owner Occupied Average Household Size of Owner-Occupied Units: Average Household Size of Renter-Occupied Units: 2.54 people 2.87 people People per Square Mile by Census Tract 5,000.0 to 55,254.8 -Urban 500.0 to 4,999.9 88.4 to 499.9 • Suburban 20.0 to 88.3 5.0 to 19.9 -Rural 1.0 to 4.9 Less than 1.0 United States County Boundary

Figure 19.4.10-1 – Population Density for Transportation Route to Andrews, Texas (Sheet 5 of 5)

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Texas Mean Center of Population

State Race* Breakdown 2010 Census: Wisconsin Profile Black or African American (6.3%) American Indian and Alaska Native (1.0%) Asian (2.3%) Vative Hawaiian and Other Pacific Islander (<0.1%) Population Density by Census Tract ome other race (2.4%) wo or more races (1.8%) Hispanic or Latino (of any race) makes up 5.9% of the state population. Population by Sex and Age Total Population: 5,686,986 - 20 230,000 115,000 115,000 230,000 Male **Female Housing Tenure** Total Occupied Housing Units: 2,279,768 31.9% Renter Occupied 68.1% Owner Occupied Average Household Size of Renter-Occupied Units: Average Household Size of Owner-Occupied Units: 2.56 people 2.16 people Wisconsin Population 1970 to 2010 2010 5,686,986 People per Square Mile 2000 5,363,675 by Census Tract 4,891,769 1990 1980 4,705,767 5,000.0 to 50,310.2 **Urban** 1970 4,417,731 1,000.0 to 4,999.9 200.0 to 999.9 -Suburban 88.4 to 199.9 30.0 to 88.3 -Rural 10.0 to 29.9 Less than 10.0 United States County Boundary Wisconsin Mean Center of Population 5. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU

Figure 19.4.10-2 – Population Density for Transportation Route to Clive, Utah (Sheet 1 of 6)

State Race* Breakdown 2010 Census: Illinois Profile Black or African American (14.5%) American Indian and Alaska Native (0.3%) White (71.5%) Population Density by Census Tract Hispanic or Latino (of any race) makes up **15.8%** of the state population. Population by Sex and Age Total Population: 12,830,632 - 10 510,000 255,000 255,000 510,000 Male **Housing Tenure** Total Occupied Housing Units: 4,836,972 32.5% Renter Occupied 67.5% Owner Occupied Average Household Size of Owner-Occupied Units: Illinois Population Average Household Size 1970 to 2010 2.69 people 2.38 people 2010 12,830,632 2000 12,419,293 1990 11,430,602 People per Square Mile by Census Tract 1980 11,426,518 1970 11,113,976 10,000.0 to 508,697.5 -Urban 1,000.0 to 9,999.9 200.0 to 999.9 -Suburban 88.4 to 199.9 50.0 to 88.3 Rural 15.0 to 49.9 Less than 15.0 United States County Boundary Illinois Mean Center of Population

Figure 19.4.10-2 – Population Density for Transportation Route to Clive, Utah (Sheet 2 of 6)

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State Race* Breakdown 2010 Census: Iowa Profile Black or African American (2.9%) American Indian and Alaska Native (0.4%) Asian (1.7%) Native Hawaiian and Other Pacific Islander (0.1%) Population Density by Census Tract Some other race (1.8%) Two or more races (1.8%) Hispanic or Latino (of any race) makes up 5.0% of the state population. Population by Sex and Age Total Population: 3,046,355 **(** 120,000 60,000 60,000 120,000 Male **Female Housing Tenure** Total Occupied Housing Units: 1,221,576 27.9% Renter Occupied 72.1% Owner Occupied Average Household Size Average Household Size of Owner-Occupied Units: of Renter-Occupied Units: 2.52 people 2.14 people People per Square Mile by Census Tract 5,000.0 to 17,586.8 -Urban 1,000.0 to 4,999.9 Iowa Population 200.0 to 999.9 -Suburban 1970 to 2010 88.4 to 199.9 2010 3,046,355 30.0 to 88.3 10.0 to 29.9 2,926,324 -Rural 2000 Less than 10.0 1990 2,776,755 United States 1980 2,913,808 County Boundary 1970 Iowa Mean Center of Population S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU

Figure 19.4.10-2 – Population Density for Transportation Route to Clive, Utah (Sheet 3 of 6)

State Race* Breakdown 2010 Census: Nebraska Profile Black or African American American Indian and Alaska Native (1.0%) Native Hawaiian and Other Pacific Islander (0.1%) Population Density by Census Tract Some other race (4.3%) Two or more races (2.2%) Hispanic or Latino (of any race) makes up 9.2% of the state population. Population by Sex and Age Total Population: 1,826,341 35.000 35.000 70,000 70,000 Male **Female** Housing Tenure Total Occupied Housing Units: 721,130 32.8% Renter Occupied 67.2% Owner Occupied Average Household Size of Owner-Occupied Units: Average Household Size of Renter-Occupied Units: 2.58 people 2.21 people Nebraska Population People per Square Mile 1970 to 2010 by Census Tract 2010 1,826,341 1,000.0 to 15,573.8 2000 1,711,263 200.0 to 999.9 1990 1,578,385 U.S. density is 88.4 88.4 to 199.9 Suburban 1980 1,569,825 20.0 to 88.3 1970 1,483,493 5.0 to 19.9 Rural 1.0 to 4.9 Less than 1.0 County Boundary Nebraska Mean Center of Population 5. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU

Figure 19.4.10-2 – Population Density for Transportation Route to Clive, Utah (Sheet 4 of 6)

State Race* Breakdown 2010 Census: Wyoming Profile Black or African American (0.8%) American Indian and Alaska Native (2.4%) -Asian (0.8%) Population Density by Census Tract Some other race (3.0%) Hispanic or Latino (of any race) makes up 8.9% of the state population. Population by Sex and Age Total Population: 563,626 12,500 25,000 12,500 25,000 **Female Housing Tenure** Total Occupied Housing Units: 226,879 30.8% Renter 69.2% Owner Occupied Average Household Size Average Household Size of Owner-Occupied Units: of Renter-Occupied Units 2.50 people 2.26 people People per Square Mile by Census Tract 1,000.0 to 6,822.9 — **Urban** 200.0 to 999.9 -Suburban Wyoming Population U.S. density is 88.4 to 199.9 1970 to 2010 20.0 to 88.3 5.0 to 19.9 2010 563,626 -Rural 1.0 to 4.9 2000 493,782 Less than 1.0 1990 453,588 United States 1980 469,557 County Boundary Wyoming Mean Center of Population Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU

Figure 19.4.10-2 – Population Density for Transportation Route to Clive, Utah (Sheet 5 of 6)

State Race* Breakdown 2010 Census: Utah Profile Native Hawaiian and Other Pacific Islander (0.9%) Population Density by Census Tract Some other race (6.0%) wo or more races (2.7%) *One race Utah Population 1970 to 2010 Hispanic or Latino (of any race) 2,763,885 2010 makes up 13.0% of the state population. 2000 2,233,169 1990 1,722,850 1980 1,461,037 Population by Sex and Age 1970 1,059,273 Total Population: 2,763,885 70,000 Male **Female** Housing Tenure Total Occupied Housing Units: 877,692 70.4% Owner Occupied Average Household Size of Owner-Occupied Units: of Renter-Occupied Units: 3.21 people 2.82 people People per Square Mile by Census Tract 5,000.0 to 29,402.3 -Urban 500.0 to 4,999.9 —Suburban 88.4 to 499.9 30.0 to 88.3 5.0 to 29.9 -Rural 1.0 to 4.9 Less than 1.0 United States County Boundary Utah Mean Center of Population Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU

Figure 19.4.10-2 – Population Density for Transportation Route to Clive, Utah (Sheet 6 of 6)

2010 Census: Wisconsin Profile State Race* Breakdown Black or African American (6.3%) American Indian and Alaska Native (1.0%) -Asian (2.3%) Native Hawaiian and Other Pacific Islander (<0.1%) Population Density by Census Tract Some other race (2.4%) Two or more races (1.8%) Hispanic or Latino (of any race) makes up 5.9% of the state population. Population by Sex and Age Total Population: 5,686,986 230,000 115,000 115,000 230,000 **Female Housing Tenure** Total Occupied Housing Units: 2,279,768 31.9% Renter Occupied 68.1% Owner Occupied Average Household Size of Owner-Occupied Units: Average Household Size of Renter-Occupied Units: 2.16 people 2.56 people Wisconsin Population 1970 to 2010 2010 5,686,986 People per Square Mile 2000 5,363,675 by Census Tract 1990 4,891,769 1980 4,705,767 5,000.0 to 50,310.2 1.000.0 to 4.999.9 1970 4,417,731 200.0 to 999.9 Suburban 88.4 to 199.9 30.0 to 88.3 Rural 10.0 to 29.9 Less than 10.0 United States County Boundary Wisconsin Mean Center of Population .S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU

Figure 19.4.10-3 – Population Density for Transportation Route to Hazelwood, Missouri (Sheet 1 of 3)

State Race* Breakdown 2010 Census: Illinois Profile Black or African American (14.5%) Population Density by Census Tract o or more races Hispanic or Latino (of any race) makes up 15.8% of the state population. Population by Sex and Age Total Population: 12,830,632 - 20 255,000 255,000 Male Female **Housing Tenure** Total Occupied Housing Units: 4,836,972 32.5% Renter Occupied 67.5% Owner Occupied Illinois Population Average Household Size of Owner-Occupied Units: Average Household Size of Renter-Occupied Units: 1970 to 2010 2.69 people 2.38 people 2010 12,830,632 2000 12,419,293 1990 11,430,602 People per Square Mile 1980 11,426,518 by Census Tract 1970 11,113,976 10,000.0 to 508,697.5 -Urban 1,000.0 to 9,999.9 200.0 to 999.9 -Suburban U.S. density is 88.4 88.4 to 199.9 50.0 to 88.3 Rural 15.0 to 49.9 Less than 15.0 **United States** County Boundary Illinois Mean Center of Population Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU

Figure 19.4.10-3 – Population Density for Transportation Route to Hazelwood, Missouri (Sheet 2 of 3)

State Race* Breakdown 2010 Census: Missouri Profile American Indian and Alaska Native (0.5%) -Asian (1.6%) Native Hawaiian and Other Pacific Islander (0.1%) White (82.8%) Some other race (1.3%) Population Density by Census Tract Two or more races (2.1%) Missouri Population 1970 to 2010 Hispanic or Latino (of any race) makes up **3.5%** of the state population. 5,988,927 2010 2000 5,595,211 1990 5,117,073 Population by Sex and Age 1980 4,916,686 1970 Total Population: 5,988,927 4,676,501 - 20 - 10 115,000 Male **Female Housing Tenure** Total Occupied Housing Units: 2,375,611 31.2% Renter 68.8% Owner Occupied Average Household Size Average Household Size 2.54 people 2.25 people People per Square Mile by Census Tract 5,000.0 to 13,329.5 1,000.0 to 4,999.9 200.0 to 999.9 –Suburban U.S. density is 88.4 88.4 to 199.9 30.0 to 88.3 -Rural 10.0 to 29.9 Less than 10.0 **United States** County or City Boundary Missouri Mean Center of Population J.S. Department of Commerce Economics and Statistics Administration U.S. CENSUS BUREAU

Figure 19.4.10-3 – Population Density for Transportation Route to Hazelwood, Missouri (Sheet 3 of 3)

Figure 19.4.10-4 – Population Density for Transportation Route to North Billerica, Massachusetts (Sheet 1 of 7)

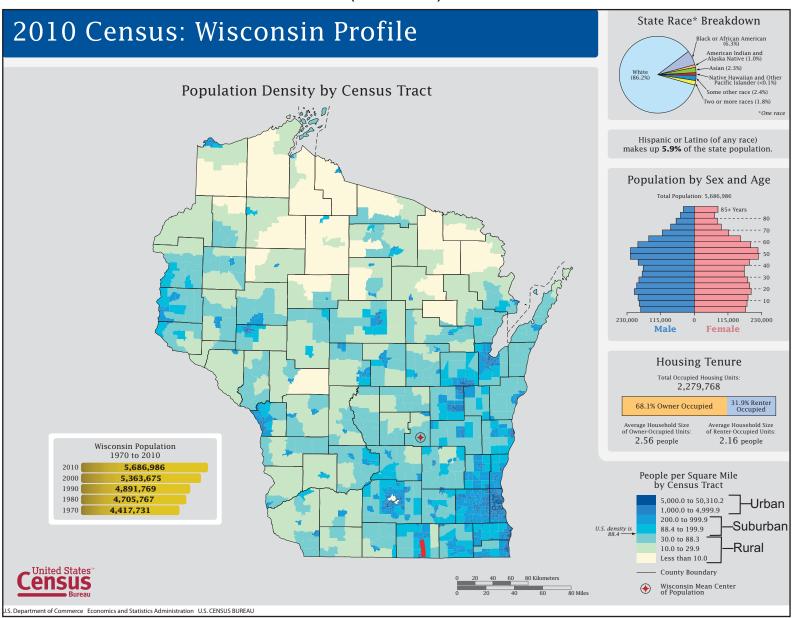


Figure 19.4.10-4 – Population Density for Transportation Route to North Billerica, Massachusetts (Sheet 2 of 7)

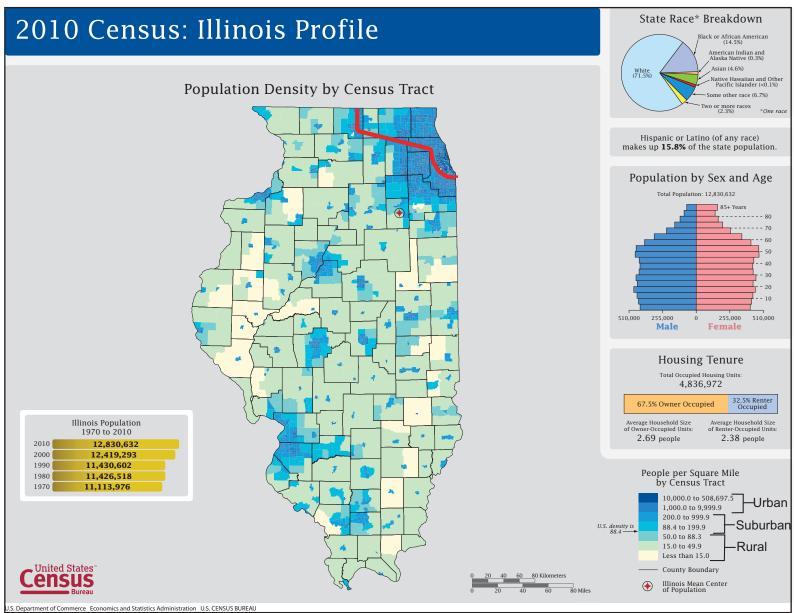


Figure 19.4.10-4 – Population Density for Transportation Route to North Billerica, Massachusetts (Sheet 3 of 7)

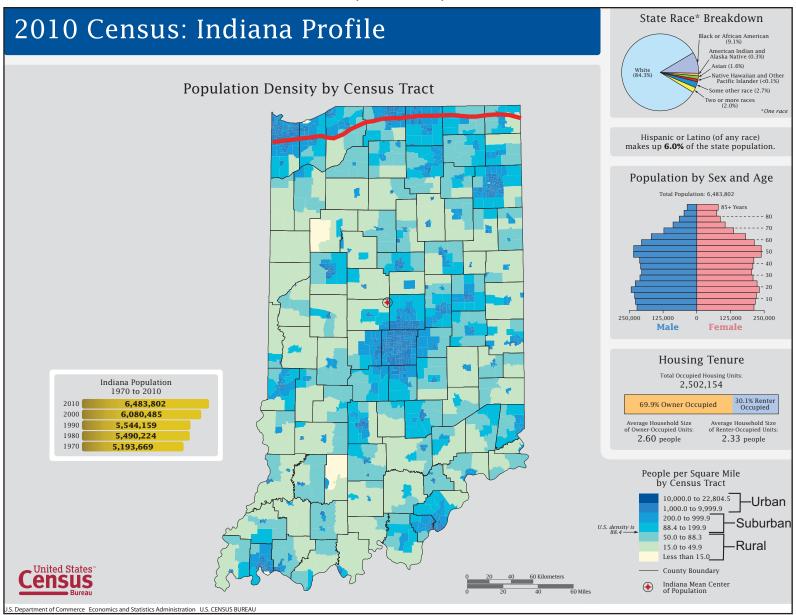


Figure 19.4.10-4 – Population Density for Transportation Route to North Billerica, Massachusetts (Sheet 4 of 7)

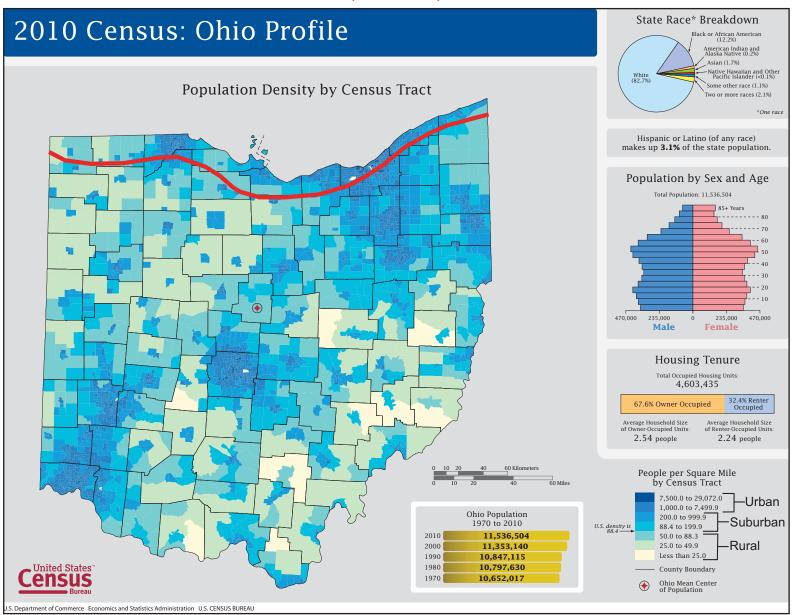


Figure 19.4.10-4 – Population Density for Transportation Route to North Billerica, Massachusetts (Sheet 5 of 7)

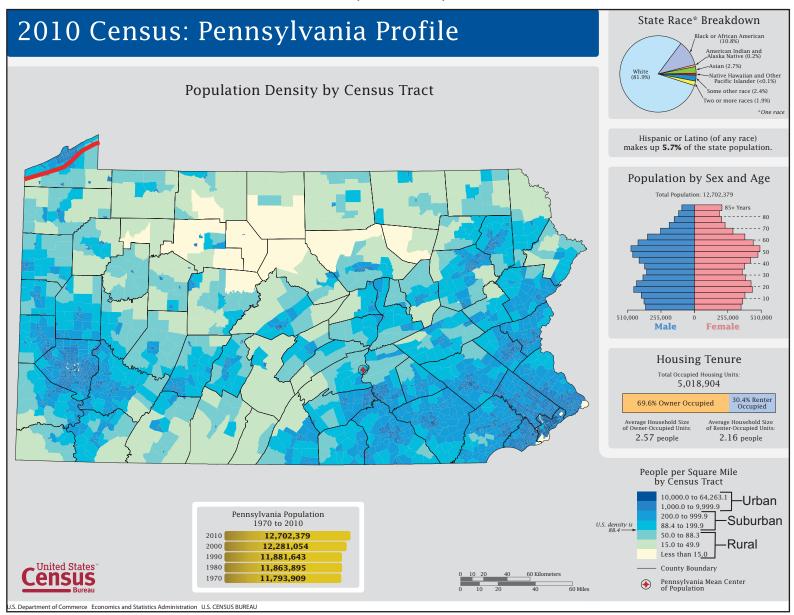


Figure 19.4.10-4 – Population Density for Transportation Route to North Billerica, Massachusetts (Sheet 6 of 7)

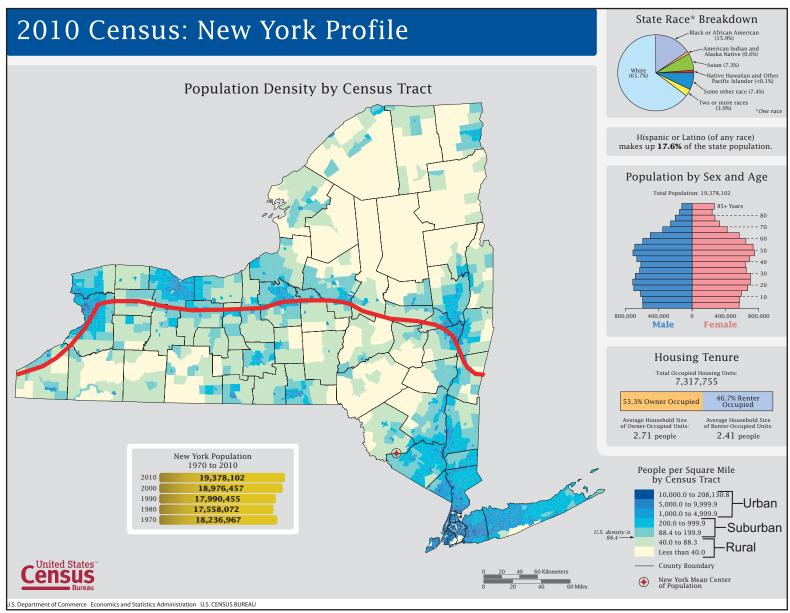
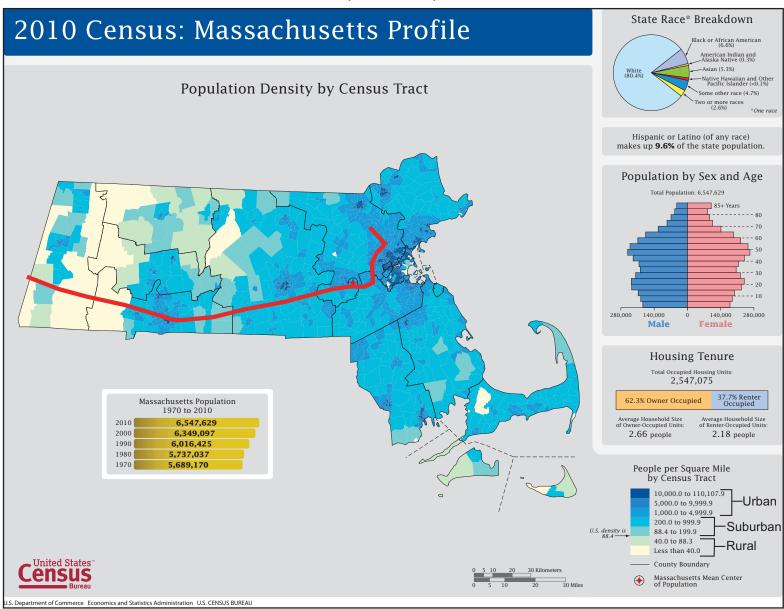


Figure 19.4.10-4 – Population Density for Transportation Route to North Billerica, Massachusetts (Sheet 7 of 7)



Janesville [14] 14 11 **[51] LEGEND** Site Location Block Group Boundary Beloit Low-Income Block Groups 5 Miles Radius (Vicinity) Population Center >25k People

Figure 19.4.12-1 – Low Income Populations in the Vicinity of the SHINE Site

Figure 19.4.13-1 – Past, Present, and Reasonably Foreseeable Projects and Other Actions Retained for the Cumulative Effects Analysis

