

PENNDOT FHWA
Inline Correction for
FFY 2019

November 7, 2018

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Table 1. Potential DBE Analysis

Market Category	PennDOT DBE Ratio	Local Market DBE Ratio
Technical Consultants	0.32367	0.32367
Service Consultants	0.32258	0.32258
Researchers	0.21951	0.21951
Primes	0.02832	0.07432
Sub-contractors	0.16282	0.16282
Suppliers	0.03494	0.08592

PennDOT DBE ratio is calculated using the raw counts of DBE and EU firms. The Local Market DBE Ratio is the higher of the PennDOT DBE Ratio and the calculated Potential DBE ratio. Numbers rounded for display purposes,

Table 2. DBE Goal Calculation

Market Category	Local Market DBE Ratio	Adjusted Baseline Ratio	Weights of Expenditures	Adjusted Weighted Ratios
Technical Consultants	0.32367	0.17781	0.09846	0.01751
Service Consultants	0.32258	0.16129	0.00755	0.00122
Researchers	0.21951	0.10976	0.00082	0.00009
Primes	0.07432	0.05021	0.67003	0.03364
Sub-contractors	0.16282	0.18155	0.16623	0.03018
Suppliers	0.08592	0.17764	0.05691	0.01011
Totals			1.0000	0.09275 or 9.27%

Numbers rounded for display purposes.

Table 3. RACE-CONSCIOUS/RACE-NEUTRAL ALLOCATION

Goal	9.27%
Median Race Neutral Attainment for last five years (Adjusted Race-Neutral Goal)	1.44%
Adjusted Race-Conscious Goal	7.84%

This year's goal does not include a regulatory reduction factor because the Department did not obtain its goal in each of the last two years. Numbers rounded for display purposes.

Table 4. MARKET AND WORK TYPE GOALS

Market	Total Goal	Race-Conscious	Race-Neutral
Technical Consulting	17.78%	6.99%	10.79%
Service Consulting	16.13%	16.13%	0.00%
Research	10.98%	10.98%	0.00%
Construction	8.28%	7.32%	0.96%

Numbers rounded for display purposes.

Table 5. TC Work Type Goals

Work Type	Total Goal	Race-Conscious	Race-Neutral
Bridge Inspection	18.41%	7.24%	11.17%
Construction Inspection	16.91%	6.65%	10.26%
Construction Support Services	19.26%	7.57%	11.68%
Cultural Resources	29.87%	11.74%	18.13%
Design Support Services	19.25%	7.57%	11.68%
Environmental	18.01%	7.08%	10.93%
Field Surveying	15.02%	5.90%	9.11%
Geophysical-Geotechnical	16.87%	6.63%	10.24%
Photogrammetry	9.04%	3.55%	5.49%

Work Type	Total Goal	Race-Conscious	Race-Neutral
Right-of-Way	10.81%	4.25%	6.56%
Roadway Design	14.58%	5.73%	8.85%
Structure Design	13.31%	5.23%	8.07%
Traffic Engineering	15.66%	6.16%	9.50%
Utility Location	19.18%	7.48%	11.55%

Numbers rounded for display purposes.

FFY 2018-2019 COMPARISON

Table 6. Potential DBE Analysis Year-to-Year Comparison

Market Category	FFY2018		FFY2019	
	PennDOT DBE Ratio	Local Market DBE Ratio	PennDOT DBE Ratio	Local Market DBE Ratio
Technical Consultants	0.32598	0.32598	0.32367	0.32367
Service Consultants	0.32258	0.32258	0.32258	0.32258
Researchers	0.21951	0.21951	0.21951	0.21951
Primes	0.03120	0.07243	0.02832	0.07432
Sub-contractors	0.15854	0.15854	0.16282	0.16282
Suppliers	0.03686	0.08785	0.03494	0.08592

Numbers rounded for display purposes.

Table 7. DBE Goal Calculation Year-to-Year Analysis

Market Category	Local Market DBE Ratio		Adj. Baseline Ratio		Weight	
	2018	2019	2018	2019	2018	2019
TC	0.32598	0.32367	0.16955	0.17781	0.06115	0.09846
SC	0.32258	0.32258	0.20049	0.16129	0.00045	0.00755
R	0.21951	0.21951	0.11821	0.10976	0.00300	0.00082
P	0.07243	0.07432	0.05100	0.05021	0.70438	0.67003
Subs	0.15854	0.16282	0.20571	0.18155	0.18050	0.16623
Supplier	0.08785	0.08592	0.19686	0.17764	0.05052	0.05691
Total Wtd. Ratios	0.10481	0.11624	0.09381	0.09275	1.0000	1.0000

Numbers rounded for display purposes.

FFY 2018 Aggregated Construction Goal including P, S, and Suppliers – 8.87%

FFY 2019 Aggregated Construction Goal including P, S, and Suppliers – 8.28%

Table 8. Race-Conscious/Race-Neutral by Market Allocation Comparison

Market Category	2018		2019	
	RC	RN	RC	RN
Technical Consulting	6.44%	10.51	8.35%	9.43%
Service Consulting	20.05%	0.00%	16.13%	0.00%
Research	11.82%	9.39%	6.87%	4.11%
Construction	7.51%	1.36%	7.71%	0.0%

Numbers rounded for display purposes.

Table 9. TC Work Type Comparison

Work Type	2018		2019	
	RC	RN	RC	RN
Bridge Inspection	6.27%	10.23%	8.65%	9.77%
Construction Inspection	6.89%	11.24%	7.94%	8.97%
Construction Support Services	7.07%	11.54%	9.04%	10.21%
Cultural Resources	12.24%	19.98%	14.03%	15.84%

Work Type	2018		2019	
	RC	RN	RC	RN
Design Support Services	6.27%	10.23%	9.04%	10.21%
Environmental	5.12%	8.36%	8.46%	9.55%
Field Surveying	5.15%	8.41%	7.05%	7.96%
Geophysical-Geotechnical	5.36%	8.74%	7.92%	8.95%
Photogrammetry	2.38%	3.89%	4.25%	4.80%
Right-of-Way	3.13%	5.11%	5.07%	5.73%
Roadway Design	4.96%	8.10%	6.85%	7.73%
Structure Design	4.41%	7.20%	6.25%	7.06%
Traffic Engineering	5.26%	8.58%	7.35%	8.31%
Utility Location	4.30%	7.03%	8.94%	10.09%

Numbers rounded for display purposes.

REASONS FOR CHANGES

Technical Consulting- The Technical Consulting ratio rose from 16.95% to 17.78% largely driven by the influence of personnel capacity on award decision as determined by regression analysis. The R^2 for Design Primes fell from 0.5116 to 0.3699, while the same figure for Design Subs rose slightly from 0.5444 to 0.5653. Design unit ratios fell slightly from 0.2549 to 0.2524 and personnel ratios remained virtually unchanged from last year (0.0837 down from 0.0838). The result was a higher Design submarket goal of 0.1807, up from 0.1657 last year.

Inspection figures also tracked very close to last year's with the Inspection Prime unit ratio remaining unchanged at 0.2775 and a slight rise in the Inspection Sub unit ratio from 0.2828 to 0.2921. Regression analysis showed that both Inspection Prime and Sub awards were influenced more by personnel capacity yielding R^2 of 0.6880 and 0.5014 respectively. Higher influence of personnel capacity on award lowered the Inspection submarket ratio to 0.1691 compared to 0.1813 last year.

Construction- Ratios for Primes, Subs, and Suppliers fell slightly since last year. The market showed 2 fewer DBE primes this year than last which contributed to the lower DBE Prime ratio of 5.02% compared with 5.10% last year. The median attainment rates for both Subs and Suppliers fell reducing the final ratio in both of those categories. The combined effects resulted in a slightly lower Construction market ratio of 7.32%.

Service Consulting- The same firms appeared on the Service Consulting bidders list this year as last. Lower 5-year median attainment figures resulted in a lower ratio.

Researchers- Like Service Consulting, the same firms appeared on the Research bidders list as last year as well. Lower 5-year median attainment figures resulted in a lower ratio in this market too.

Race-Conscious/Race-Neutral allocation- The Department did not meet FHWA goal in each of the last two years. As a result, the regulatory reduction factor that allows an entity to reduce its race-conscious goals when it has met its goal during the two previous years does not come into play. The Department's median RN attainment for the last five years (1.44%) is the race-neutral portion of the goal in this inline correction.