

# Parking Lot Expansion Project

## TBAISD Career-Tech Center

### Project Scope

Due to staff expansion the Career-Tech Center needs an additional 50 parking spaces on the south end of the rear staff parking lot. Additional parking must be accessible from the existing lot. You work for Elmer's Asphalt and have been asked to submit a proposal and bid to the principal of TBAISD Career-Tech Center, Patrick Lamb. Create a project proposal that includes all necessary information and use the provided print drawn at 1/32 scale to locate new parking area and draw in the addition.

**There will be a project "reward" for the team with the most accurate bid.**



## Commercial Asphalt

Team Elmer's is ready to tackle your commercial asphalt project:

- Driveways
- Entrance Approaches
- Maintenance
- Parking Lots
- Pathways
- Private and Public Roads
- Recreational Applications
- [Warm Mix Asphalt Available](#)



## Municipal Asphalt

Team Elmer's is ready to tackle any municipal asphalt project:

- Bike and Walking Pathways
- City Streets
- County Roads
- Private Roads
- State Highways
- Trails
- [Warm Mix Asphalt Available](#)

## Recreational

- Bike Paths
- Ice Rinks
- Pathways
- Skateboard Park
- Sport Courts
- Tennis Courts
- Tracks
- [Warm Mix Asphalt Available](#)

## Residential Asphalt

Team Elmer's is ready to tackle your residential asphalt project:

- Driveways
- Entrance Approaches
- Maintenance
- Parking Lots
- Pathways
- Private and Public Roads
- Recreational Applications
- [Warm Mix Asphalt Available](#)

State-certified testing facilities on-site and a knowledgeable staff ensures proper mix designs. Award-winning crews working on your project add up to a quality product you will enjoy for years to come.

- Daily quality control checks for all products
- Free estimates
- Fully bonded and insured
- MSHA compliant
- Two-year guarantee and written warranty

Team Elmer's is a recipient of a National Asphalt Association Diamond Achievement award for environmental quality and community contributions – Traverse City Asphalt, a Michigan Asphalt Paving Association Environmental Award – Traverse City Plant and Michigan Asphalt Paving Association – Awards of Excellence for:

- |                               |                             |
|-------------------------------|-----------------------------|
| • Blair Townhall Walking Path | • Northport Skateboard Park |
| • M-37/US-31                  | • US-10/Custer Highway      |
| • M-137 Interlochen Highway   |                             |



# Warm Mix Asphalt: Extends Paving Season, Reduces Fuel Consumption

Warm mix asphalt, a green technology, allows for the production and placement of asphalt mix at warm temperatures 50° - 70°F lower than hot mix asphalt. Such drastic reductions have the obvious benefits of cutting fuel consumption and decreasing the production of greenhouse gases. In addition, engineering benefits include better compaction on the road, the ability to haul paving mix for longer distances, and extending the paving season by being able to pave at lower temperatures.



## Benefits of Warm Mix Asphalt

### Transportation Agencies

- Reduced Emissions
- More Consistent Densities
- Faster Opening of Roads to Traffic
- Cold Weather and Night Paving
- Smoother Roads Paving over Crack Seal
- Reduction in Premature Binder Aging

### Asphalt Manufacturers / Paving Companies

- Energy Savings
- Increased Use of RAP
- Compaction Aid for Stiff Mixes
- Extended Season/Cold Weather Paving
- Longer Workability and Hauls
- Lower Emissions
- Pave Over Crack Sealing
- Consistent Density Across the Mat



Cost per cubic yard of asphalt.

ENGLISH		PUBLISH MONTH	METRIC	
Ohio	Michigan		Ohio	Michigan
\$448.00	\$483.00	January 2011	\$495.00	\$532.00
\$454.00	\$483.00	February 2011	\$502.00	\$532.00
\$463.00	\$493.00	March 2011	\$512.00	\$546.00
\$489.00	\$517.00	April 2011	\$539.00	\$573.00
\$520.00	\$536.00	May 2011	\$580.00	\$595.00
\$541.00	\$577.00	June 2011	\$597.00	\$640.00
\$551.00	\$621.00	July 2011	\$608.00	\$693.00
\$566.00	\$628.00	August 2011	\$626.00	\$689.00
\$562.00	\$603.00	September 2011	\$619.00	\$659.00
\$541.00	\$575.00	October 2011	\$592.00	\$630.00
\$522.00	\$552.00	November 2011	\$575.00	\$608.00
\$529.00	\$548.00	December 2011	\$584.00	\$604.00
\$564.00	\$549.00	January 2012	\$622.00	\$606.00
\$581.00	\$555.00	February 2012	\$640.00	\$612.00
\$594.00	\$575.00	March 2012	\$656.00	\$637.00
\$611.00	\$606.00	April 2012	\$673.00	\$668.00
\$624.00	\$623.00	May 2012	\$688.00	\$686.00
\$639.00	\$630.00	June 2012	\$705.00	\$694.00
\$638.00	\$630.00	July 2012	\$703.00	\$694.00
\$607.00	\$603.00	August 2012	\$666.00	\$661.00
\$595.00	\$600.00	September 2012	\$656.00	\$661.00
\$590.00	\$599.00	October 2012	\$650.00	\$660.00
		November 2012		
		December 2012		

Excavation Costs: \$18.75/square ft.

## Asphalt Thickness Requirements

Residential	2" thickness
Commercial	4" thickness
Municipal	4.5" thickness