

I-435 South Loop Link Design-Build Project





Project Location









Awarded as the Best Value Proposer





35 Concrete Overlay











- Deliver the project utilizing a diverse workforce by May 1, 2020 within the program budget of \$74.8 million.
- 2. Minimize impacts to the traveling public during construction.
- 3. Maximize safety and peak period travel speeds on the I-435 corridor.

4. Minimize future maintenance needs.

Quality Management



- Both quality control and quality assurance are administered by Radmacher.
- Radmacher has chosen to utilize a third party testing corporation, Geotechnology Inc., to complete all quality testing.



12/12/2018



Quality Verification



	Minimum Frequency		QC Documents			
Acceptance Criteria	Contractor QC	Agency Acceptance	Checklist	Test Record	Misc.	
testing	1 per 500 CY	1 Per 10000 CY		∻		
testing	na	1 per Project		∻		
testing	1 per source/year	1 per Project		∻		
testing	1 from first truckload and 1 per 100 CY thereafter per day per mix	1 per 7500 CY		∻		
visual / certification	1 per activity	1 per month		\diamond		

 MoDOT provides quality verification as agency acceptance.

 Inspection and Testing Plan is modified to include testing rates at which MoDOT will verify that quality is being met on the project (typically 10% of the QA testing rate).







No pay factors

 Concrete pavement is accepted on satisfactory test results and pavement smoothness.





12/12/2018



35 MACCEPtance



- We have adopted an existing JSP allowing concrete pavement to be open to traffic at 2500 psi
- This was done in efforts to accelerate the schedule and minimize impacts to the public during specific phases of concrete paving.

Paving concrete mixture shall obtain a compressive strength of 2,500 pounds per square inch prior to opening to traffic. When opening to traffic at a compressive strength of 2500 pounds per square inch type III cement and chloride based accelerators shall not be used.







Work Zone Constraints









Phase 1B – August 2018 to October 2018

- 1. Continue Phase 1 bridge construction
- 2. Move ramps to new ramp pavement
- 3. Construct remainder of ramp width









Phase 2 – November 2018 to May 2019

- 1. Move 2 lanes of traffic to the new outside lanes
- 2. Leave 2 lanes of traffic adjacent to the median barrier
- 3. Construct the new lanes between the travel lanes









Phase 3 – May 2019 to September 2019

- 1. Move all 4 lanes to new pavement (outside)
- 2. Construct median pavement
- 3. Construct median side of bridges





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DOF	 Heavy Highway
RRF	- Water & Sewer Tenatment Plants
NUL	Tadastrial/Power
Radm	acher Brothers Excavaring Company, Is



- RFP New Pavement Section
 - 1. 6" Agg Base
 - 2. 11" PCCP
 - 3. 1.25" dowels at 15' o/c
 - 4. 30" tie bars at 30" o/c

- RBE Overlay Section
 - 1. Existing UBAWS interlayer
 - 2. 8.5" PCCP
 - 3. 1.5" dowels at 12' o/c
 - 4. 18" tie bars at 24" o/c

















TSI GEOTECHNICAL, INC.











Not all Design-Builds are created equal but its still the People that make all the difference!