

DALLAS DISTRICT

PROGRESS

Monthly Report on Dallas District Projects and Topics

COLLIN CO. | DALLAS CO. | DENTON CO. | ELLIS CO. | KAUFMAN CO. | NAVARRO CO. | ROCKWALL CO.

MARGARET McDERMOTT BRIDGE CONSTRUCTION IS UNDERWAY

DALLAS — Dallas' next iconic landmark bridge is taking shape just west of downtown Dallas on Interstate 30 (I-30) over the Trinity River. Serving as a new spectacular gateway into the city, construction of the Margaret McDermott Bridge has begun and soon drivers will marvel at the beauty and complexity of this structure that will complement the adjacent Margaret Hunt Hill Bridge which is north of I-30.



The Margaret McDermott Bridge is named after the philanthropist and wife of the founder of Texas Instruments. She was the first person to make a substantial personal contribution that ensured the City of Dallas' ability to secure the infamous Spanish architect Santiago Calatrava as the designer to meld architectural beauty with functionality for both bridges over the Trinity River. The City of Dallas worked with TxDOT, the Texas Legislature and the region to make funding a priority for the I-30 bridge and include the bridge as a part of the TxDOT Horseshoe Project. The Horseshoe Project is rebuilding the downtown Mixmaster and the bridges over the Trinity River on I-30 and I-35E. The new bridge features pedestrian and bicycle access connecting to downtown, the floodway and Oak Cliff.

The \$798 million Horseshoe project, so named for its U-shape, began construction in August 2013 and is expected to be complete in mid 2017. TxDOT contracted Pegasus Link Constructors – joint venture between Fluor Enterprises and Balfour Beatty Infrastructure, to construct the project which includes approximately five miles of major interstate improvements including replacement of 37 bridges in the downtown Mixmaster and across the Trinity River. In fact, the tagline for the project is "Fixin' the Mix"

More than 460,000 vehicles use the I-30 and I-35E Mixmaster interchange through downtown per weekday and approximately 140,000 vehicles per weekday cross the Trinity River on I-30.



A rendering of the new Margaret McDermott Bridge over I-30 just west of downtown Dallas. Estimated completion, mid-2017.

TxDOT graphic

MARGARET McDERMOTT BRIDGE FACTS

Details:

- Height of arches: 328 feet (ft.)
- Length of the arch: 1,311 ft.
- Bridge deck length: 1,125 ft.
- Number of cables per arch: 98
- Number of segments for each arch: 39

Footing Info:

- Concrete in each footing: 890 cubic yards and 200,000 pounds of reinforcing steel on each footing
- 12 battered/4 vertical shafts per footing

Drill Shafts:

- Each drill shaft is 48 inches in diameter, and average 80 ft. in depth

Fabrication:

- The transition bent formwork was fabricated by Aluma Forms (Buffalo Forms and Young's Welding – contractor) in Canute, Kansas

For more information on Margaret McDermott Bridge and the Horseshoe Project, please go to www.dallashorseshoe.com.



The first of the large pieces of steel for the Margaret McDermott Bridge arrived in Dallas in November 2014. Arch construction is scheduled to begin after the first of the year.

TxDOT photo archive

The MMD Bridge is being fabricated in a facility in Tampa, Florida by Tampa Steel Erecting Company and will be transported to Dallas piece by piece. American Bridge will be the

contractor on site building the arches. The first two sections of the bridge arches arrived in November and will be placed on the 50-foot tall pedestals before the end of the year. ★

NOVEMBER 2014 LET PROJECTS

CSJ NUMBER	HWY	LIMITS	TYPE OF WORK	EST. (M)	BID (M)	(%)	EST. TOTAL COSTS (M) ***	CONTRACTOR	
0009-12-209	I-30	1/2 mile west of Horizon Rd. to 1/4 mile west of SH 205 in Rockwall	Installaton of safety lighting	\$0.21	\$0.19	-9.14	\$0.23	Highway Intelligent Traffic Solutions, Inc.	1
0081-13-051	I-35W	I-35W and I-35 from Tarrant Co. to Cooke County	Install guide signs	\$0.35	\$0.38	6.58	\$0.47	Time Striping, Inc.	2
0135-11-018	US 380	West of CR 26 to CR 73 (Lovers Lane)	Reconstruct highway as six-lane divided w/grade separation	\$55.94	\$57.98	3.65	\$74.93	Mario Sinacola & Sons Excavating, Inc.	3
2588-01-015	FM 548	US 80 to FM 1641	Landscape development	\$0.21	\$0.20	-1.87	\$0.26	Apex Landscaping & Irrigation, LLC	4
NOVEMBER 2014 TOTAL				\$56.71	\$58.75	3.60	\$75.88		
DISTRICT FY ACCUMULATIVE LETTINGS				\$259.37	\$248.61	-3.76			
DALLAS DISTRICT LETTING CAP				\$1,046.87**					

**District FY 2015 Letting Vol. Cap includes the following:
 1) The SH 183 Managed Lanes project for \$513 million.
 ***Est. Total Proj. Costs includes estimated PE, ROW, E&C, Indirect Costs and Potential Change Order Costs at the time of bid.

DECEMBER 2014 PROJECTED LETTING PROJECTS (SUBJECT TO CHANGE)

CSJ NUMBER	HWY	LIMITS	TYPE OF WORK	EST. (M)	
0048-03-087	US 77	US 77 at SH 342 and SH 34 at Laurel / Wal-Mart	Rehabilitation of traffic signals	\$0.30	1
0095-10-053	US 80	I-30 to I-635	Concrete full depth repair on jughandles and frontage roads	\$1.50	2
0162-04-055	SH 31	SH 31 from FM 55 north to I-45	Full depth concrete repair, level-up and overlay	\$4.75	3
0353-02-063	SH 114	At FM156	Construct interchange	\$30.64	4
0697-03-027	FM 429	SH 243 to US 80	Texturize shoulders and centerline	\$0.25	5
1392-01-040	FM 1378	FM 1378: FM 2514 to S of Forest Dr. and FM 2756 at FM 569	Additional paved surfaced width, base repair & overlay	\$2.79	6
3392-01-008	FM 2786	SH 5 to FM 1378	Widen 2 to 4 lane divided	\$16.14	7
TOTAL				\$56.37	

COMPLETED CONSTRUCTION PROJECTS (FROM NOVEMBER 1 – 30, 2014)

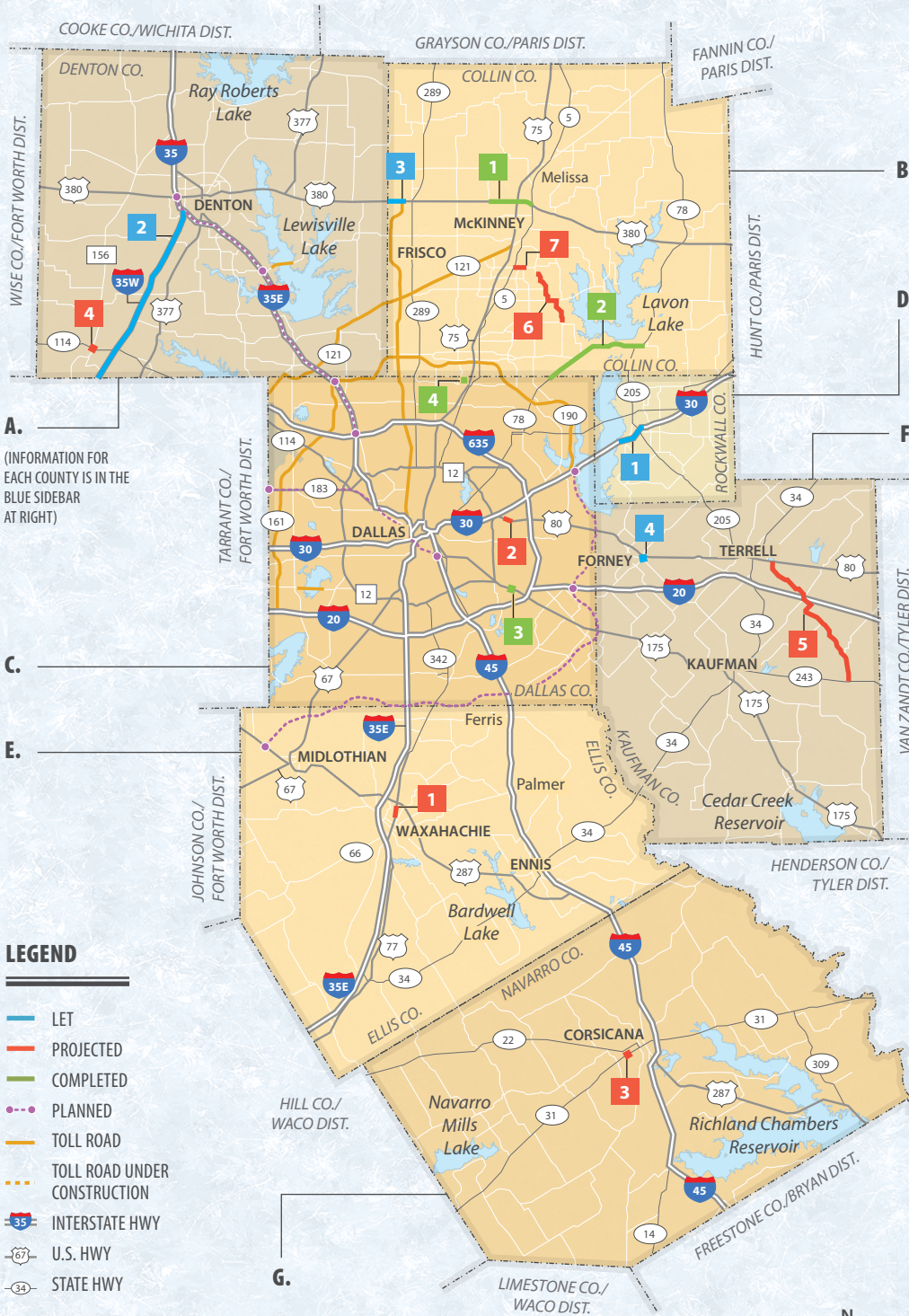
CSJ NUMBER	HWY	LIMITS	TYPE OF WORK	DATE COMPLETED	COST (M)	
0135-02-054	US 380	Various Highways in Collin County	Full depth repair	11/20/14	\$0.92	1
0281-02-069	SH 78	Willford Rd. in Sachse to Spring Creek in Wyle	Full depth repair	11/20/14	\$0.60	2
0197-02-111	US 175	At St. Augustine Road	Repair damaged 33" storm drain RCP	11/14/14	\$0.21	3
0918-45-821	CS	Galatyn Parkway FR US 75 to Palisades Blvd.	Extend existing Galatyn Parkway in Richardson	11/20/14	\$3.06	4
TOTAL					\$4.79	

SOURCE: Texas Department of Transportation.

TxDOT graphic

DALLAS DISTRICT PROJECTS MAP

Colored and numbered boxes correspond with the charts on page 2 and show projects that have let in November, are projected to let in December or have recently been completed.



A.
(INFORMATION FOR EACH COUNTY IS IN THE BLUE SIDEBAR AT RIGHT)

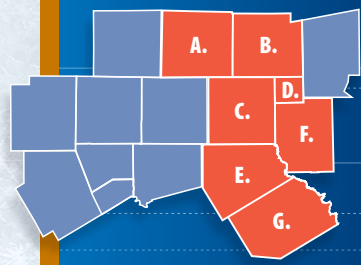
C.

E.

LEGEND

- LET
- PROJECTED
- COMPLETED
- - - PLANNED
- TOLL ROAD
- - - TOLL ROAD UNDER CONSTRUCTION
- INTERSTATE HWY
- U.S. HWY
- STATE HWY

SOURCE: TxDOT research.
*POPULATION ESTIMATE: NCTCOG.



DALLAS DISTRICT TOTALS

VEHICLE REGISTRATION | 3,591,178
*POPULATION ESTIMATE | 4,259,090
LANE MILES | 10,847.34

A. | DENTON COUNTY

VEHICLE REGISTRATION: 559,501
*POPULATION ESTIMATE: 683,010
LANE MILES: 1,597.47

B. | COLLIN COUNTY

VEHICLE REGISTRATION: 680,383
*POPULATION ESTIMATE: 804,390
LANE MILES: 1,563.69

C. | DALLAS COUNTY

VEHICLE REGISTRATION: 1,952,662
*POPULATION ESTIMATE: 2,385,990
LANE MILES: 3,440.13

D. | ROCKWALL COUNTY

VEHICLE REGISTRATION: 79,075
*POPULATION ESTIMATE: 80,270
LANE MILES: 346.35

E. | ELLIS COUNTY

VEHICLE REGISTRATION: 165,360
*POPULATION ESTIMATE: 152,580
LANE MILES: 1,516.77

F. | KAUFMAN COUNTY

VEHICLE REGISTRATION: 103,929
*POPULATION ESTIMATE: 104,600
LANE MILES: 1,191.95

G. | NAVARRO COUNTY

VEHICLE REGISTRATION: 50,268
*POPULATION ESTIMATE: 48,250
LANE MILES: 1,190.98

TxDOT PREPARED FOR WINTER WEATHER

DALLAS — TxDOT has spent the past few months gearing up for the upcoming winter weather season, updating response plans and restocking inventory.



In addition, TxDOT has contracted with a joint venture between Amey Consultants and Webber Construction to increase its maintenance resources in Dallas County,

including during winter weather events. The performance-based contract means Amey-Webber is responsible for treating interstates in Dallas County, including I-30, I-20, I-635, I-45 and I-35, along with the Dallas County portion of US 75.

TxDOT will now be able to refocus its resources elsewhere in the district. This season, TxDOT will again have more than 185 pieces of equipment and nearly 350

employees readily available to immediately start working around the clock as soon as winter weather threatens North Texas.

What's more, the Dallas District has 14 snow plow blade attachments and three new brine makers at its disposal. Brine is a liquid, salt-based anti-icer used to pretreat roads just before temperatures drop below freezing. ★

AFTER SNOW/ICE EVENT

- Stockpiles and supplies are replenished (multi-day storm)
- Roadways are swept and cleaned of excess aggregate
- Winter plan effectiveness is evaluated and adjusted
- Roadway repairs are scheduled (Potholes, guardrails, structures, etc.)
- Equipment is serviced and prepared for the next winter storm

WHAT MATERIALS ARE USE ON THE ROADS?

Before an ice/Snow Event

- Liquid salt-based anti-icers help prevent ice formation

During an ice/Snow Event

- Various salt-based granular de-icers are used to help melt ice already formed on the road

HOW DO THE CHEMICALS WORK?

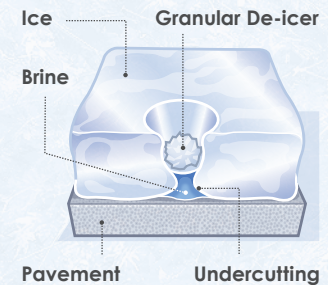
Granular De-Icer

A granular de-icer – salt for instance – lowers the freezing point of water from 32 °F to about 15 °F (depending on how much you use).

When salt makes contact with ice – melting begins immediately and spreads out from that point, creating a salt/water mix (brine) that continues melting the ice, undercutting the bond between the ice and the road.

Melting Ice Takes Time

The temperature and the amount of ice or snow on the road determine de-icing material amounts and melting rates. As temperatures drop, the amount of de-icer needed to melt a given quantity of ice increases significantly.



SOURCE: www.usroads.com

TxDOT graphic



From S. Barkley of Rockwall, Texas:

"It looked like yesterday when I traveled I-30 to Rockwall to go to church that the exit signs have been put in place at several of the locations and thank you for contacting me about the situation. It was very noticeable and makes a great deal of difference of staying in the proper lanes. Thank your people for taking care of such an important item to road safety."

SOURCE: Texas Department of Transportation

TxDOT graphic

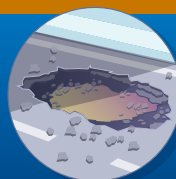
DALLAS DISTRICT | PROGRESS



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FOR MORE INFORMATION:

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REPORT A POTHOLE:

Visit www.txdot.gov/contact-us/formhtml?form=Report_a_Pothole or call 800.452.9292. Progress report can be downloaded at <http://www.txdot.gov/inside-txdot/district/dallas/progress.html>