TxDOT PREPARES FOR WINTER WEATHER

DALLAS — For TxDOT, nothing is more important than safety, especially during severe winter weather. That’s why the TxDOT Dallas District has been gearing up for the upcoming winter weather season and is prepared to respond as needed. Equipment in each county of the Dallas District is inspected and serviced to operate well before the temperatures start dropping. Winter maintenance plans are reviewed and updated while materials are replenished.

TxDOT uses several different techniques and materials during a winter weather event. When inclement weather is anticipated, crews are deployed to begin de-icing, which involves pretreating the roads with a salt and water mixture called brine on heavily traveled roadways, bridges and flyovers. De-icing with brine can help prevent ice and snow from bonding to the pavement. Over a quarter million gallons of brine are prepared in the Dallas District. During an ice or snow event, crews will use sand or other salt-based materials to de-ice or create traction on the roadways. More than 3,400 tons of materials are strategically located throughout the district to make efficient use of available resources.

Brine storage tanks and other materials — which are strategically located throughout the Dallas District — are accessed by TxDOT crews prior to being deployed across the district during inclement weather to begin the process of de-icing the highways and roads.

TxDOT crews diligently work to keep roadways safe, but drivers also must do their part to reduce risks and avoid winter weather hazards:

**CAR MAINTENANCE**

**DO A VEHICLE SAFETY CHECK**

Ensure that your vehicle is properly maintained including windshield wipers, headlights and tail lights, and tire pressure. Remove any snow or ice from your vehicle before you drive. Make sure your car is properly fueled in case of unexpected delays.

**DRIVE WITH CAUTION**

Approach turns, bridges and shaded spots slowly. Remember, bridges and overpasses are the first to freeze. Reduce your speed and increase your distance between other vehicles to at least three times the normal following distance. Give TxDOT work crews plenty of room to operate and slowdown when approaching them if dangerous weather is forecast or driving conditions are poor. Consider delaying your trip or simply stay home.

SOURCE: Texas Department of Transportation

DEAN HOLLINGSWORTH/TxDOT Information Specialist
### November 2019 Let Projects

<table>
<thead>
<tr>
<th>CSJ NUMBER</th>
<th>HWY</th>
<th>LIMITS</th>
<th>TYPE OF WORK</th>
<th>COST ESI (M)</th>
<th>BID (M)</th>
<th>(%)</th>
<th>EST. TOTAL COST (M)**</th>
<th>CONTRACTOR</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 0081-03-048</td>
<td>US 377/ BS 114K</td>
<td>On US 377 BS 114K in Roanoke from Henrietta Creek Rd. to N. of BS 114K at DOT No 795 342V</td>
<td>Replace the bridge, reconstruct/ widen 2/4 to 4 lane divided urban, replace railroad underpass and improve BS 114K drainage</td>
<td>$25.47</td>
<td>$33.68</td>
<td>32.25</td>
<td>$42.28</td>
<td>Austin Bridge &amp; Road Services, LP</td>
</tr>
<tr>
<td>3 0122-01-043</td>
<td>US 287/ SH31</td>
<td>US 287 from I-45 to FM 637 and on SH 31 from Hill C/L to FM 55</td>
<td>Pavement repair, overlay and pavement markings</td>
<td>$2.97</td>
<td>$2.79</td>
<td>-6.23</td>
<td>$3.63</td>
<td>Big Creek Constr., LTD.</td>
</tr>
<tr>
<td>4 1663-03-017</td>
<td>FM 744</td>
<td>Hill C/L to FM 55</td>
<td>Reconstr. existing pwmt/addr shdhrs</td>
<td>$15.13</td>
<td>$12.34</td>
<td>-18.40</td>
<td>$14.05</td>
<td>A. L. Helmcamp, Inc.</td>
</tr>
<tr>
<td>5 1014-02-044</td>
<td>FM 550</td>
<td>SH 205 to SH 276</td>
<td>Reconstr. existing pwmt/addr shdhrs</td>
<td>$6.70</td>
<td>$6.88</td>
<td>2.63</td>
<td>$7.75</td>
<td>Ed Bell Constr. Co.</td>
</tr>
<tr>
<td>6 0918-47-180*</td>
<td>CS</td>
<td>Various locations in Dallas</td>
<td>Improve traffic signals</td>
<td>$1.97</td>
<td>$1.69</td>
<td>-14.10</td>
<td>$2.24</td>
<td>Durable Spec., Inc.</td>
</tr>
</tbody>
</table>

*Unmapped. ** Estimated Total Project Costs includes est. PE, ROW, E&C, Indirect Costs and Potential Change Order Costs at the time of bid.

**Estimated November 2019 Totals**

- Total Estimated Cost: $53.47
- Total Bid: $58.79
- Total Percentage: 9.94
- Total Estimated Cost: $24.03

---

### December 2019 Projected Letting Projects

<table>
<thead>
<tr>
<th>CSJ NUMBER</th>
<th>HWY</th>
<th>LIMITS</th>
<th>TYPE OF WORK</th>
<th>EST. COST (M)</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 0092-01-052**</td>
<td>US 175; SH 310</td>
<td>On US 175 from S. of Budd St. to I-45 and on SH 310 from Pennsylvania Ave. to N. of Al Lipscomb Way and from Lenway St. to Good Latimer</td>
<td>Reconstruct freeway to 6-lane divided arterial and reconstruct I-45 and S.M. Wright interchange</td>
<td>$76.01</td>
</tr>
<tr>
<td>2 0522-01-023</td>
<td>SH 243</td>
<td>At FM 2515 and FM 2727</td>
<td>Intersection improvements</td>
<td>$1.30</td>
</tr>
<tr>
<td>3 2555-01-012</td>
<td>FM 2578</td>
<td>FM 987 to SH 34</td>
<td>Reconstruct existing pavement and add shoulders</td>
<td>$8.71</td>
</tr>
</tbody>
</table>

** Project is an A+9 bidding project.

**Estimated Total**

- Total Estimated Cost: $86.02

---

### Completed Construction Projects

<table>
<thead>
<tr>
<th>CSJ NUMBER</th>
<th>HWY</th>
<th>LIMITS</th>
<th>TYPE OF WORK</th>
<th>EST. COST (M)</th>
<th>COMPLETED DATE</th>
</tr>
</thead>
<tbody>
<tr>
<td>1 0135-11-018</td>
<td>US 380</td>
<td>West of CR 26 (Denton C/L) to CR 73 (Lovers Lane) East of SH 289</td>
<td>Widen Existing 4 Lane to 6 Lane Divided with Grade Separation @ SH 289 &amp; DNT</td>
<td>$57.98</td>
<td>11/18/2019</td>
</tr>
<tr>
<td>2 0008-08-076</td>
<td>SH 180</td>
<td>East of UPRR to West North Merrifield Rd</td>
<td>Mill, Overlay &amp; Flexible Pavement Repair on Frontage Roads</td>
<td>$1.12</td>
<td>11/26/2019</td>
</tr>
<tr>
<td>3 1068-04-122</td>
<td>I-30</td>
<td>Beltline to Mac Arthur Blvd</td>
<td>Construct 3 Lane Frontage Roads</td>
<td>$25.19</td>
<td>11/22/2019</td>
</tr>
<tr>
<td>4 0918-46-291</td>
<td>CS</td>
<td>Frankford Road at Marsh Lane</td>
<td>Improve Traffic Signals</td>
<td>$1.48</td>
<td>11/04/2019</td>
</tr>
<tr>
<td>5 2681-01-022</td>
<td>FM 2499</td>
<td>FM 2181 to Hickory Creek</td>
<td>Landscape Development</td>
<td>$0.45</td>
<td>11/20/2019</td>
</tr>
<tr>
<td>6 1394-02-026</td>
<td>FM 1387</td>
<td>1.542 Miles North East of BU 287Q to 2.51 Miles North East of BU 287Q</td>
<td>Safety Treat Fixed Objects and Construct Paved Shoulders (1-4 FT)</td>
<td>$1.00</td>
<td>11/04/2019</td>
</tr>
<tr>
<td>7 3190-01-012</td>
<td>FM 2860</td>
<td>FM 1388 to US 175</td>
<td>Overlay</td>
<td>$1.10</td>
<td>11/04/2019</td>
</tr>
</tbody>
</table>

**Estimated Total**

- Total Estimated Cost: $88.32

---

*Source: Texas Department of Transportation.*

**TxDOT graphics**
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.

2019 DALLAS DISTRICT ESTIMATE TOTALS

<table>
<thead>
<tr>
<th>County</th>
<th>Vehicle Registrations</th>
<th>Population Estimate</th>
<th>Lane Miles</th>
</tr>
</thead>
<tbody>
<tr>
<td>A. Collin County</td>
<td>4,085,742</td>
<td>1,010,330</td>
<td>10,753,693</td>
</tr>
<tr>
<td>B. Dallas County</td>
<td>2,155,995</td>
<td>2,554,770</td>
<td>3,377,212</td>
</tr>
<tr>
<td>C. Denton County</td>
<td>680,143</td>
<td>874,240</td>
<td>1,633,926</td>
</tr>
<tr>
<td>D. Ellis County</td>
<td>181,071</td>
<td>189,820</td>
<td>1,526,862</td>
</tr>
<tr>
<td>E. Kaufman County</td>
<td>124,760</td>
<td>124,850</td>
<td>1,215,110</td>
</tr>
<tr>
<td>F. Navarro County</td>
<td>52,355</td>
<td>50,250</td>
<td>1,191,850</td>
</tr>
<tr>
<td>G. Rockwall County</td>
<td>91,492</td>
<td>101,020</td>
<td>346,193</td>
</tr>
</tbody>
</table>

Source: TxDOT research
*Population Estimate: NCTCOG
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.

WHAT MATERIALS ARE USED 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

AFTER SNOW/ICE EVENT
- Stockpiles/supplies are replenished (multi-day storm)
- Roadways are swept/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

SOURCE: Texas Department of Transportation

1. FUNDING SOURCES

Motor Fuel Taxes
Vehicle Registration Fees
Prop 1/Prop 7
Federal Reimbursements

2. ADVANCED PLANNING
1. Public Involvement
2. Feasibility Analysis
3. Environmental
4. Engineering
5. Right of Way
6. Utility Adjustment
7. Contractor Procurement

3. MOBILITY AND MAINTENANCE PROJECTS

SOURCE: Texas Department of Transportation

DEAN HOLLINGSWORTH/TxDOT Information Specialist

DALLAS DISTRICT | PROGRESS

FOR MORE INFORMATION:
214-320-4480
dalinfo@txdot.gov
www.txdot.gov

REPORT A POTHOLE: