

Lessons Learned in Alternatives to Paving

26th Regional Local Road Conference

Rapid City, SD

October 26-27, 2011



AND

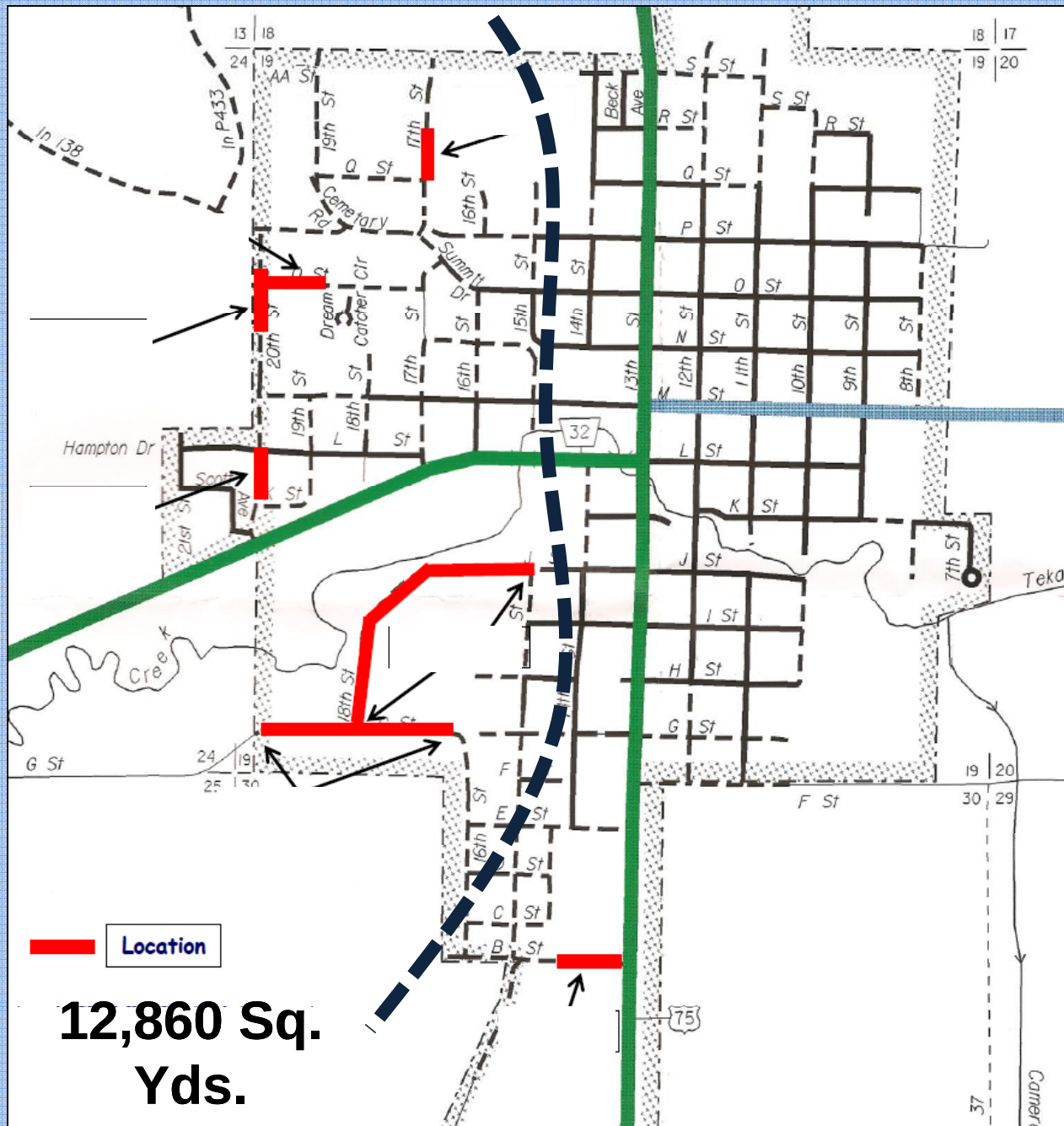
The City of Tekamah, Nebraska



INVITE YOU TO ATTEND A SOIL STABILIZATION DEMONSTRATION

ON THE STREETS OF THE CITY OF TEKAMAH

AUGUST 16, 2011



PROJECT PARTNERS

- **Scotwood Industries**
 - Suppliers of Calcium Chloride
 - Provided Field Assistance
- **Tetra Chemicals**
 - Manufacturer of Calcium Chloride
 - Provided Transport and Application
 - Provided Field Assistance
- **Sta-Bilt Construction**
 - Preparation
 - Reclamation
 - Finish Grading
 - Compaction

PROJECT PARTNERS

- **Nebraska LTAP**
 - Project Documentation
- **City of Tekamah Street Department**
 - Additional Compaction
 - Following each rain event

PROJECT PROCESS

- Added $\frac{3}{4}$ " crush & run limestone to existing surface
- Incorporated to a depth of 8"
- Compacted with sheepsfoot roller
- Prior to calcium chloride application surface was watered
 - Gallons / Sq. Yd. Varied
 - Field Compaction Test

PROJECT PROCESS

- Calcium chloride applied at a rate of 0.33 gallons / sq. yd.
- Calcium chloride incorporated to a depth of 6"
- Motor grader mixed and laid down to proper profile (additional water if needed)
- Material compacted with rubber tire roller
- Final top-coat of calcium chloride applied at a rate of 0.33 gallons / sq. yd.



08/15/2011



08/15/2011



08/15/2011







08/15/2011



08/16/2011



07/27/2011



09/23/2011



07/27/2011



07/27/2011

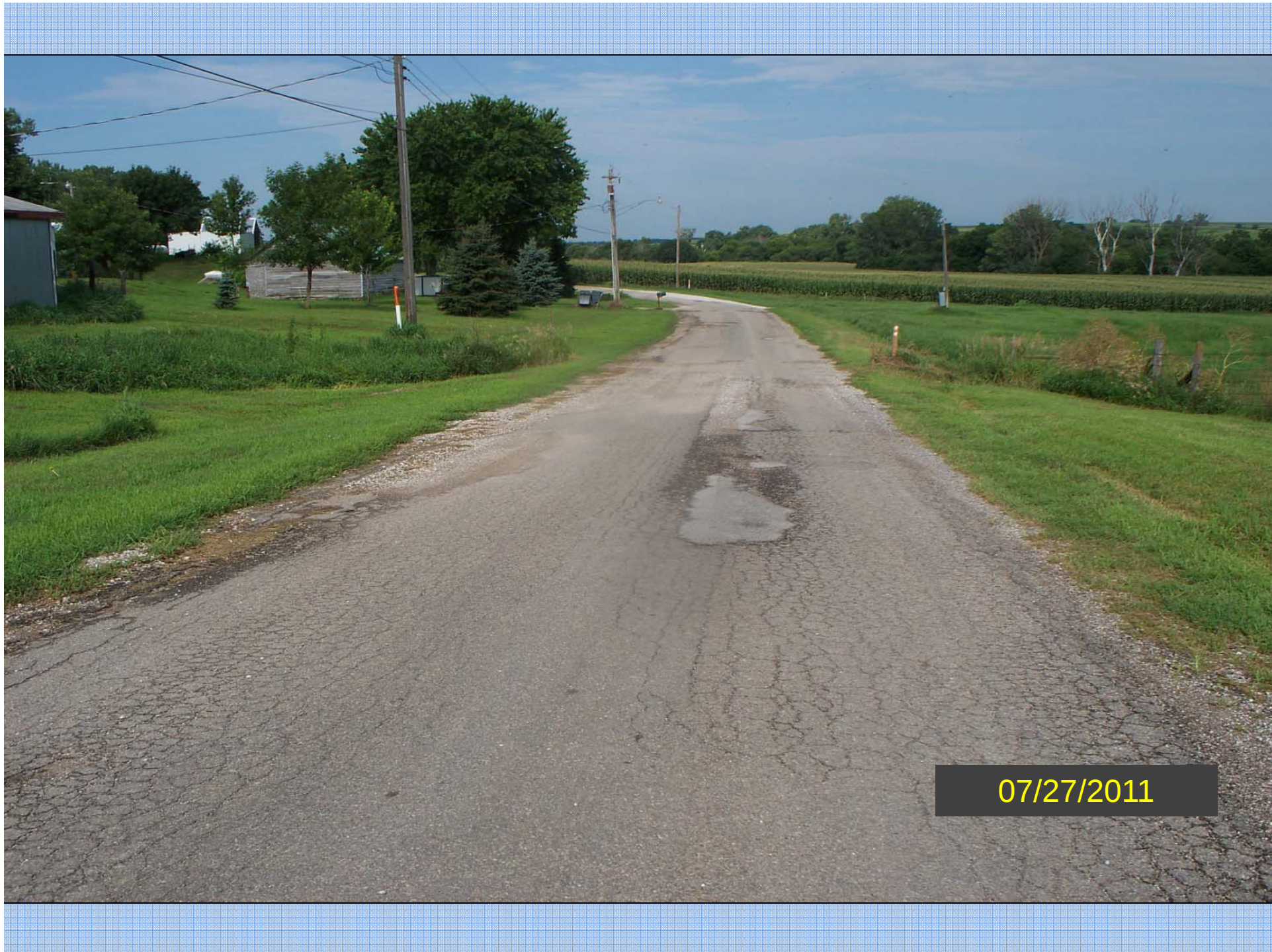






07/27/2011







09/23/2011





07/27/2011



09/23/2011



09/23/2011









10/20/2011

PROJECT COSTS

- Sta-Bilt Construction
 - 12,860 sq. yds. @ \$3.80/sq. yd.
 - \$46,296.00
 - Calcium Chloride 7996 gal. @ \$0.85/gal.
 - \$6,774.40
 - 704 cu. yds. ¾" crush and run @ \$16.00/cu. yd.
 - \$11,264.00
 - Additional hauling
 - \$637.50
- TOTAL COST \$64,971.90