



## PAVING & SIDEWALK PROJECT

### Current Pavement Status and Needs for Maintenance or Replacement

- Originally Constructed in 1984 – 25 years old
- Has delivered a good service life
- Now has major deterioration and potholes, particularly along the joints
  - Deterioration got significantly worse over the past winter
  - Expect deterioration to continue to advance at increasing rate
  - Deterioration to unusable condition could occur during the winter when options for repair would be severely limited
- Pothole filling is only short-term repair and normally doesn't last through a winter
- Repair of potholes during the winter can only be accomplished during favorable weather and for a private entity like St. Wenceslaus, pothole filling is likely not an option as street pothole filling is done by the government staff

### Major Maintenance Options Considered

- Asphalt overlay
- Partial replacement by saw-cutting, removing and replacing damaged areas only
- Full removal and replacement

### Analysis of Major Maintenance Options

- Asphalt overlay
  - Normally done by milling off 1-1/2 to 2 inches of concrete and replacing with asphalt
  - Concrete was cored and measured for thickness, which was determined to be only 6"
  - Milling to 4 or 4-1/2 inches would reduce pavement strength to too low of a level, particularly for the heavy equipment that would need to travel on the concrete to deliver and place the asphalt
  - Existing bad joints would reflect up through the asphalt and lead to bad joints in the asphalt - possibly in as little as a 2 to 4 years
- Partial replacement
  - More expensive on a per area basis due to saw cutting cost and high degree of manual labor versus paving machine placement
  - More joints are the result and experience at St. Wenceslaus has shown these joints to be subject to more rapid deterioration

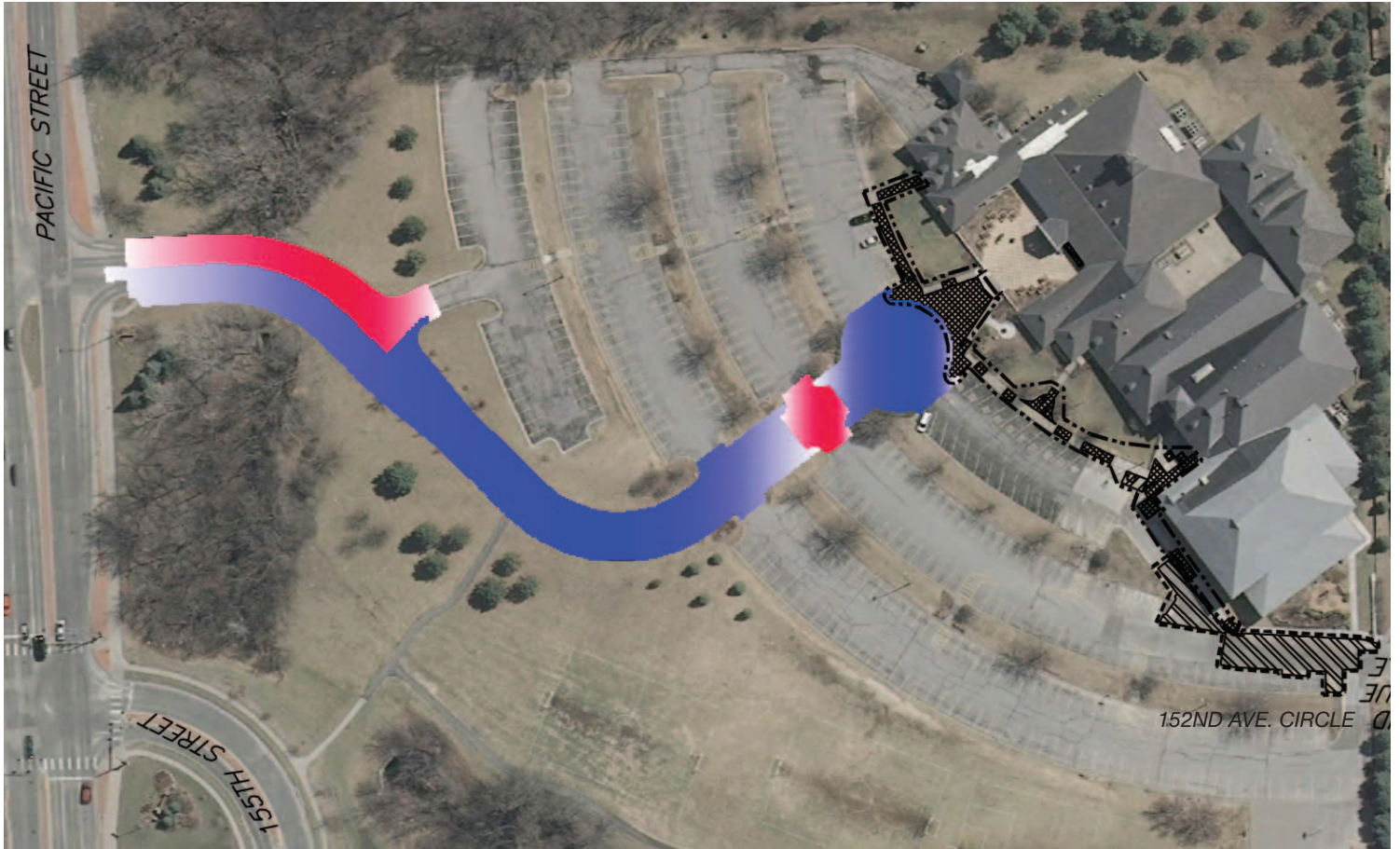
- Smaller and irregular panels also result and these panels are subject to more random cracking, which themselves are more joints subject to deterioration
- Full removal and replacement
  - More expensive current outlay, but better life resulting in a more favorable cost per years of service
  - 25-year life of current pavement was good, but likely leaves little life remaining, meaning that pavement left in place would need future replacement

### Decision for Full Replacement of Entire Main Drive Was Carefully Considered

- Reviewed by Parish Council and Finance Committee with input and review by parish members having a civil engineering background.
- Considered reconstruction of a smaller part of the drive now, realizing more would need to be done in the future
  - Current construction costs are down due to competitive environment created by economy
  - 2 smaller projects typically cost more than 1 larger project due to economies of scale
  - A smaller project would result in noticeably deteriorated concrete left in place
- Parish has the funds in place in a capital-maintenance account, carefully planned for such a purpose
  - Continuing the same wise planning, will require refunding this account
  - Having the account now gives the option of buying when prices are lower





### Access During Construction

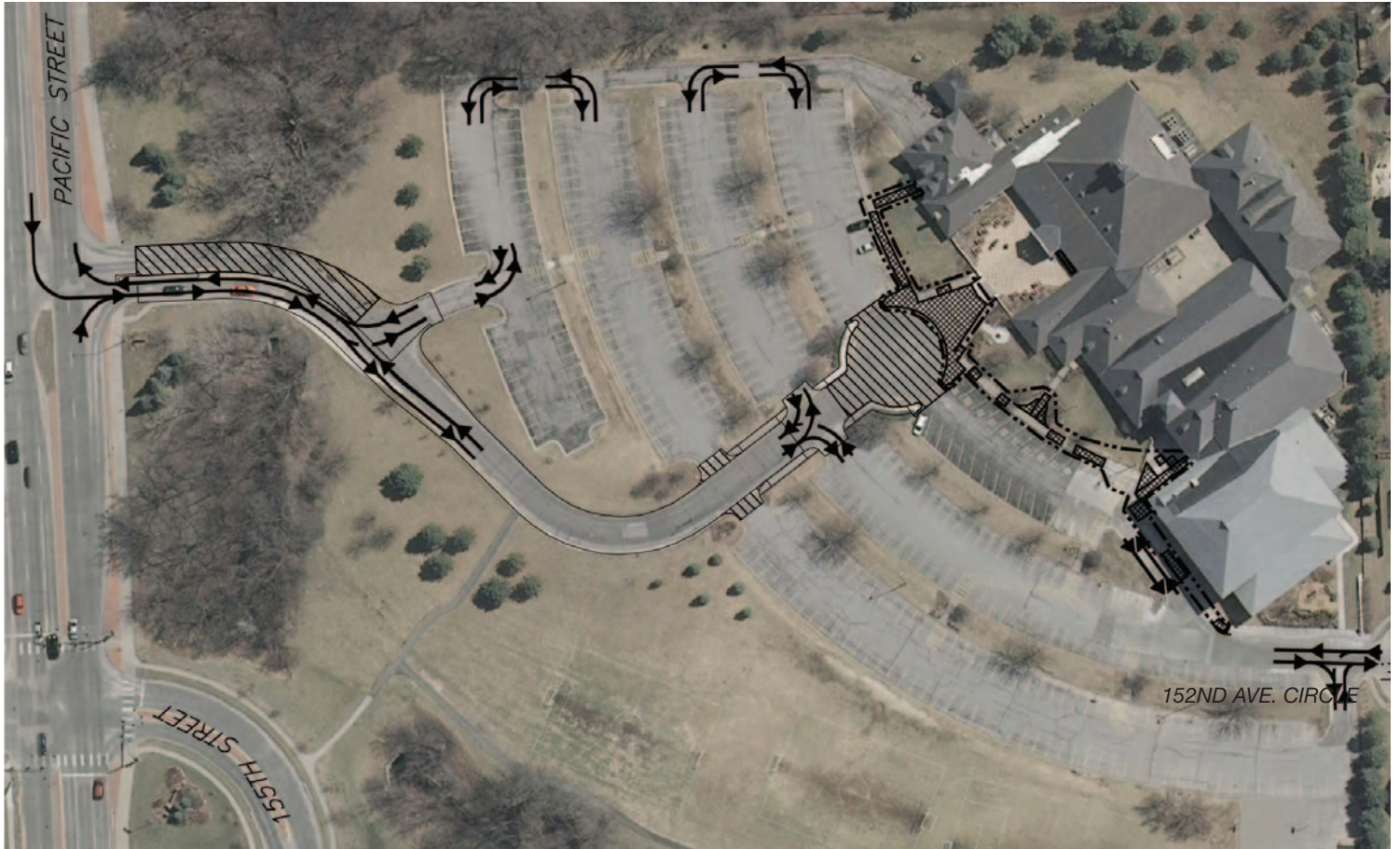
- 2-way traffic, with one narrow lane in each direction, will be available at all times from Pacific Street
- At least one crossover from the east to the west parking lots will be available at all times by phasing the removal and replacement of the driveway pavement
- Entry to and exit from the west parking lots is recommended through Pacific Hollow
- Construction activity during special events and from Friday evening through Monday morning will be restricted in order to lessen the impact on church functions.





## CONSTRUCTION EXHIBIT

### CONSTRUCTION SCHEDULE JUNE 15th to AUGUST 1st

- Main Drive Phase I*      
- Main Drive Phase II*      
- Sidewalk Improvements*      
- Parking Lot Improvements*      



## TRAFFIC FLOW—JULY 11-12

- Current Traffic Flow*      
- Under Construction*      
- Future Sidewalk Improvements*      