

**Mallard Point / Rolling Oaks Area
Drainage Improvements**

Sugar Grove, Illinois

Informational Meeting

December 16, 2010

6:30 pm

Mark Bushnell, P.E.
Trotter and Associates Inc.

Project Team

✓ Village of Sugar Grove

- Staff – Administration and Public Works
- Steve Andersson – Village Attorney
- Mark Bushnell P.E. – Trotter and Associates Inc.

✓ Kane County

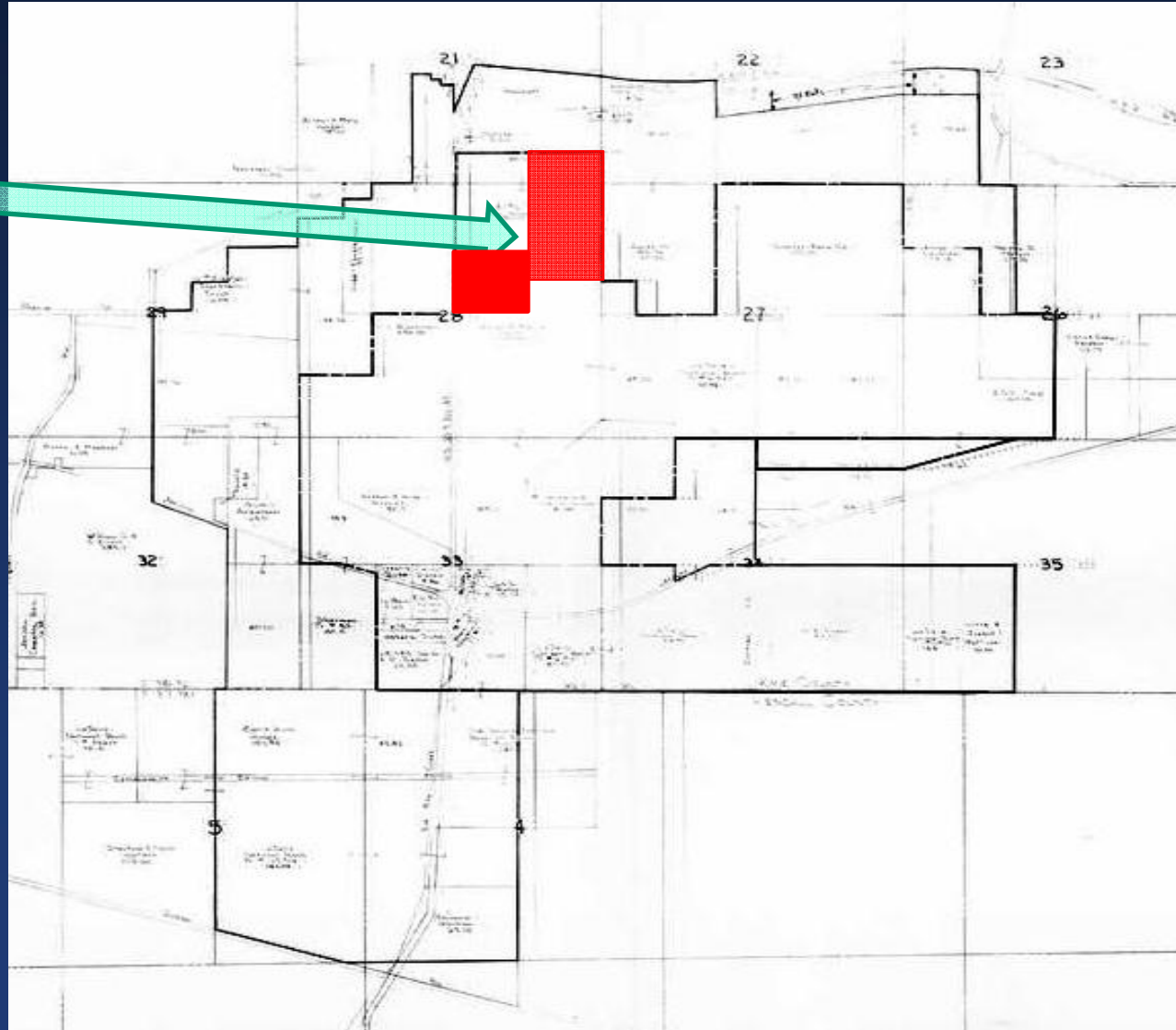
- Paul Schuch- Director of Water Resources
- Tom Huddleston – Huddleston McBride Drainage Company

✓ Rob Roy Drainage District

- Gene Sarver P.E. – Engineer
- Gerry Gorski- Gorski & Good –RRDD Attorney
- James Cottrell - Cottrell, Fletcher, Schinstock, Bartol, and Cottrell – RRDD Attorney
- John Wills P.E. – WBK Engineering – RRDD Engineer

Rob Roy Drainage District

Mallard Point /
Rolling Oaks
Subdivision



Mallard Point/Rolling Oaks Area Improvement

Rob Roy Drainage District Improvements

- **Need for Additional Agricultural Project Determined**
- **Two Independent Projects**
 - ✓ Village – Mallard Point / Rolling Oaks Area Improvements
 - ✓ RRDD – Agricultural Repairs
- **Project Funding**
 - ✓ *Kane County Issued Recovery Zone Economic Development Bonds*

Rob Roy Drainage District Wide Improvements

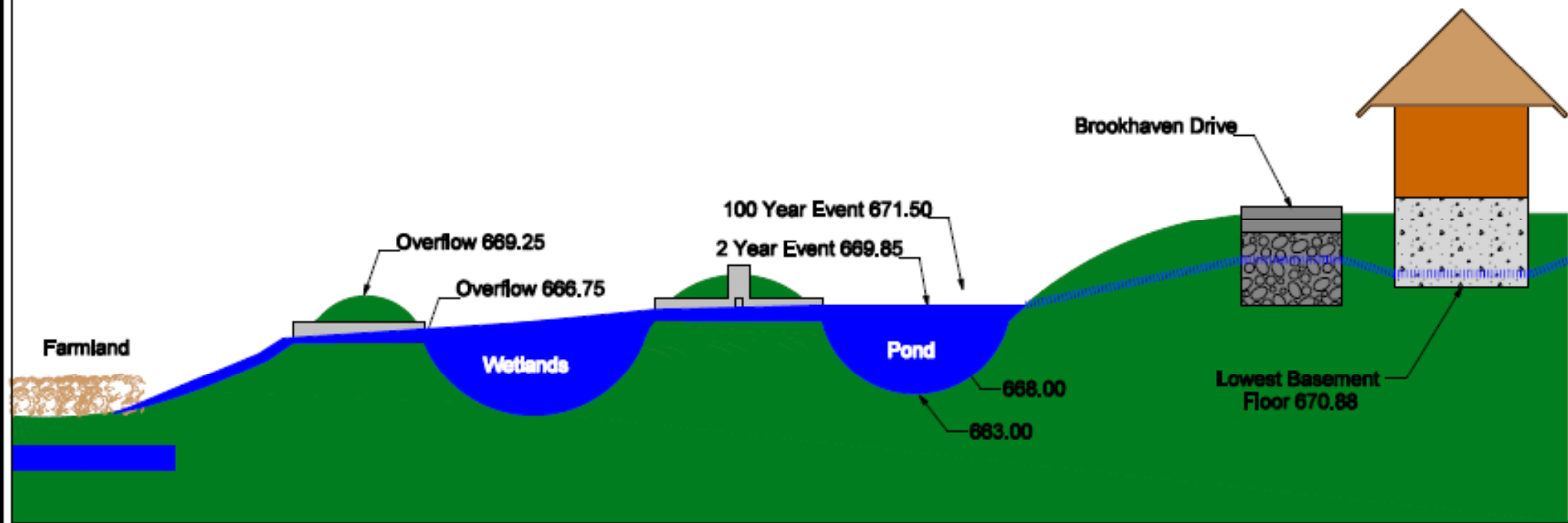
- **Preserve Regional Drainage**
- **Comprehensive field review of the existing District**
- **Series of repairs to the District Mainline Tiles**
- **Recommendations for a scheduled program of long-term replacement**

Mallard Point and Rolling Oaks Stormwater

- Permanent Stormwater Management
- All Units of Mallard Point including Rolling Oaks discharge Stormwater to these facilities
- Construction of Northern Detention Basin & Utilization of Wetlands
- Multiple Sources of Flow to the Basin

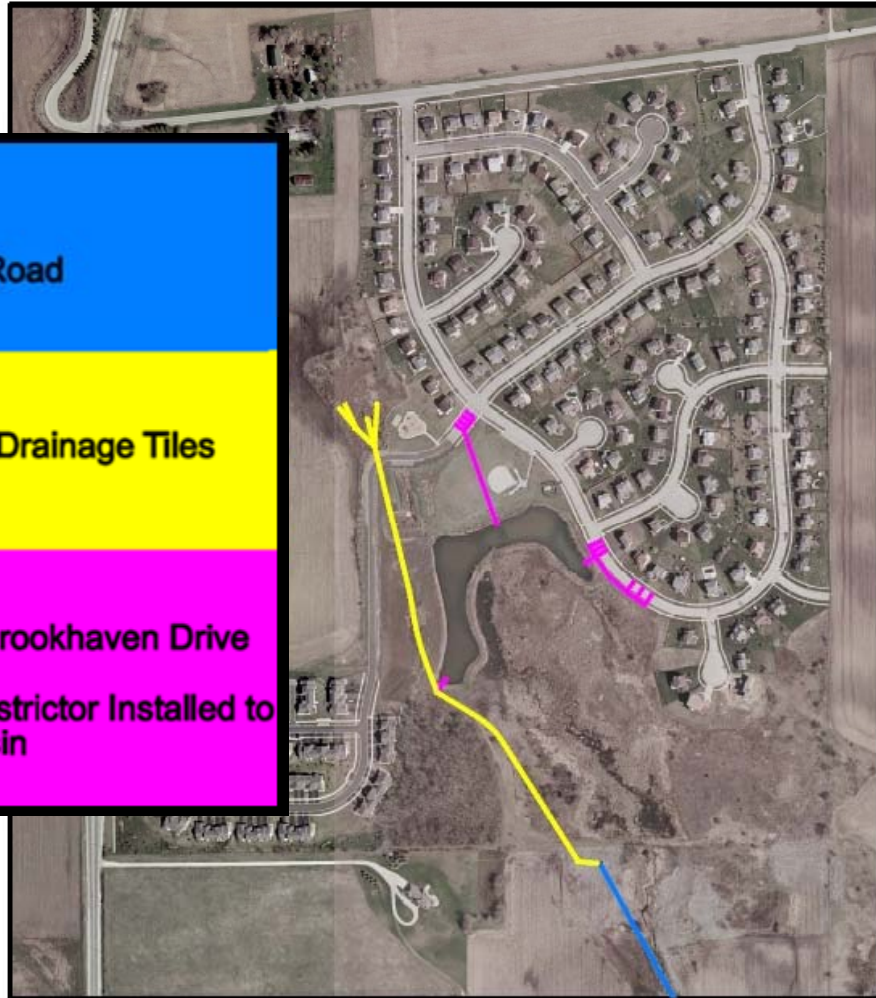


EXISTING CONDITIONS





Area Drainage Improvements



Conveyance Tile
Outleted to Jericho Road

Reroute of Rob Roy Drainage Tiles

Underdrains within Brookhaven Drive

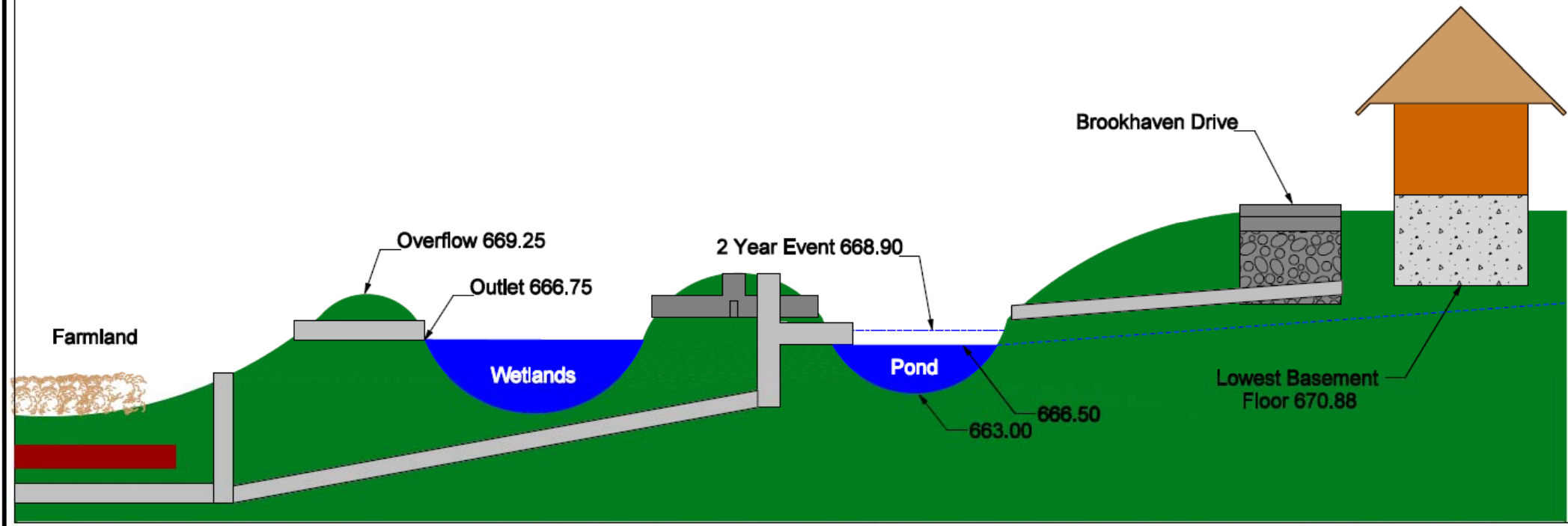
Additional Storm Restrictor Installed to
Lower Detention Basin

South to Rob Roy Ditch at Jericho Road

Presented By
TROTTER
ASSOCIATES
ENGINEERS AND ARCHITECTS
10000 W. 10th St., Suite 100
Overland Park, KS 66211
913.666.1100



PREDICTED IMPROVEMENT RESULTS



Update on Site Conditions

- **Village has monitored wells level of pond**
 - ✓ Water level has dropped during dry period
- **Village Completed Watermain Repair**
- **Ground Conditions**
 - ✓ Ground (Clay) was relatively dry and stable
 - ✓ Utility Trenches contained ground water
 - ✓ Transporting groundwater in subdivision



Update on Site Conditions

- This confirms evaluation of previous data
- Design incorporates underdrains at two locations to convey flows
- Further reduces likelihood of Additional Improvements



Project Budget

- **July Project Budget \$1.52M**
- **Revised Project Budget**
Ranges \$1.45M to \$1.75M
- **Contingencies added for Construction**
 - **Scope change to Lessen Likelihood of Additional Project**
 - **Geotechnical Data on proposed alignment**

Project Budget

- **Steps being taken to Reduce Costs**

- **Value Engineering**

- **Reducing Project Cost / Maximizing Efficiency**

- **Contractor and Permitting Agency Input**

- **Cost Effective Installation Methods**

- **Seasonal Project Savings**

- **Continued Coordination w/ Kane County and RRDD**

- **Coordination with Kane County DOT**

Additional Improvements

- **Removed from Project Costs**
- **Evaluation Period**
 - ✓ **One year minimum from completion of initial Project**
 - ✓ **Interest costs would accrue on Bond Funds Reserved for Additional Improvements (approx. \$100,000)**
- **Modification to Project lessens probability of Additional Project**

Sample Project Costs

Factors affecting Costs

- **Final Project Costs**
- **Residential Contribution - \$75,500 Annual Cap by
Mallard Point/ Rolling Oaks Residents**
- **Judge's Decision**

Sample Project Costs Annual Payments with Interest

Project Budget of \$1.45M- \$1.75M

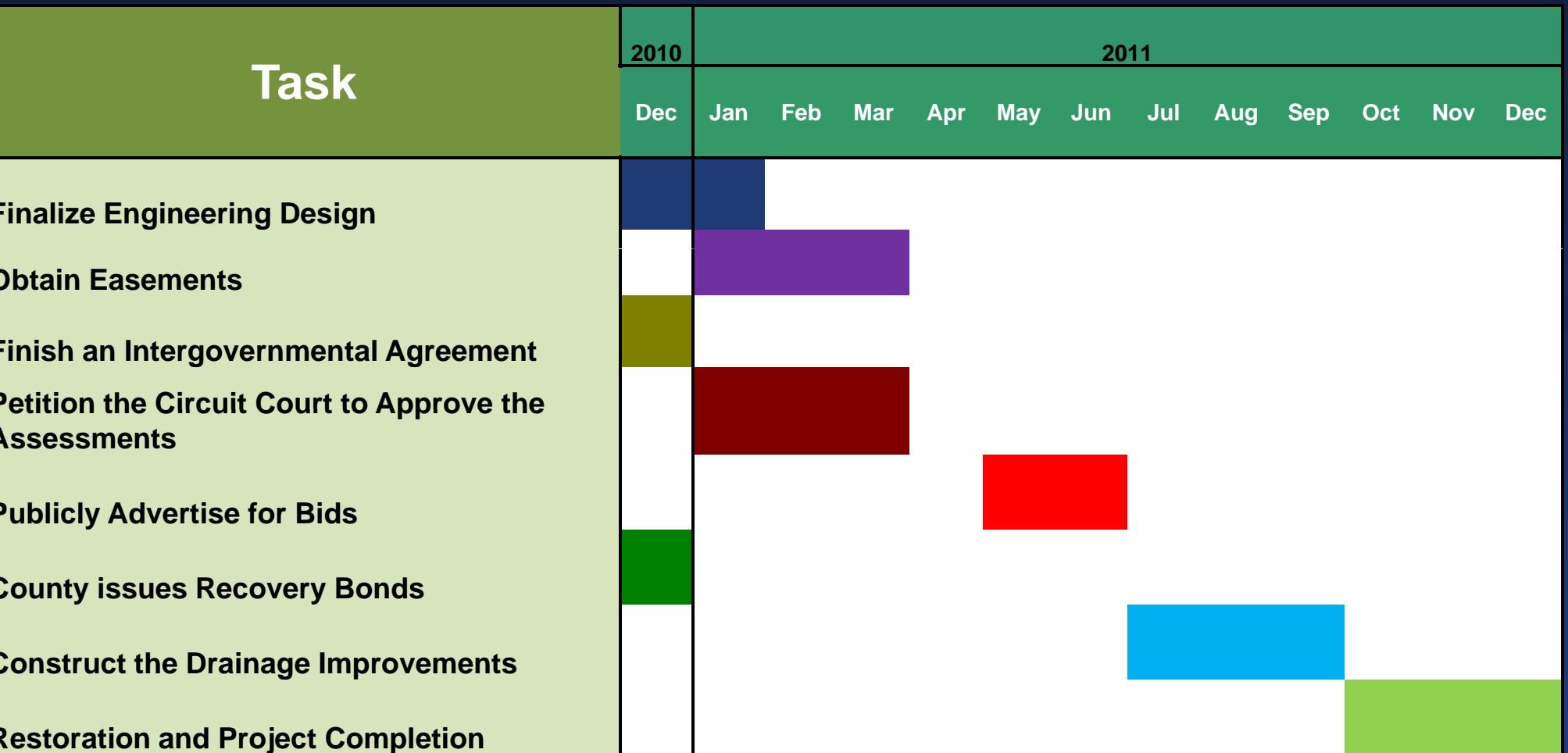
Townhomes 88 Total	Single Family 165 Total
\$86 - \$162	\$280 - \$391

Subject to Circuit Court Approval

Next Steps

- ✓ **Execute Intergovernmental Agreement with County**
- ✓ **Finalize and Permit Engineering Design**
- ✓ **Obtain Easements**
- ✓ **Obtain Circuit Court Approval**
- ✓ **Publicly Advertise for Bids**
- ✓ **Construct the Drainage Improvements**
- **Monitor Flows and Groundwater for at least 1-year (ongoing)**
- **Determine if additional improvements are needed (in total or smaller version)**

Project Schedule



Comments and Questions