

# Pleasant Grove City

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2015 STORM WATER MASTER PLAN REVIEW



# Introduction

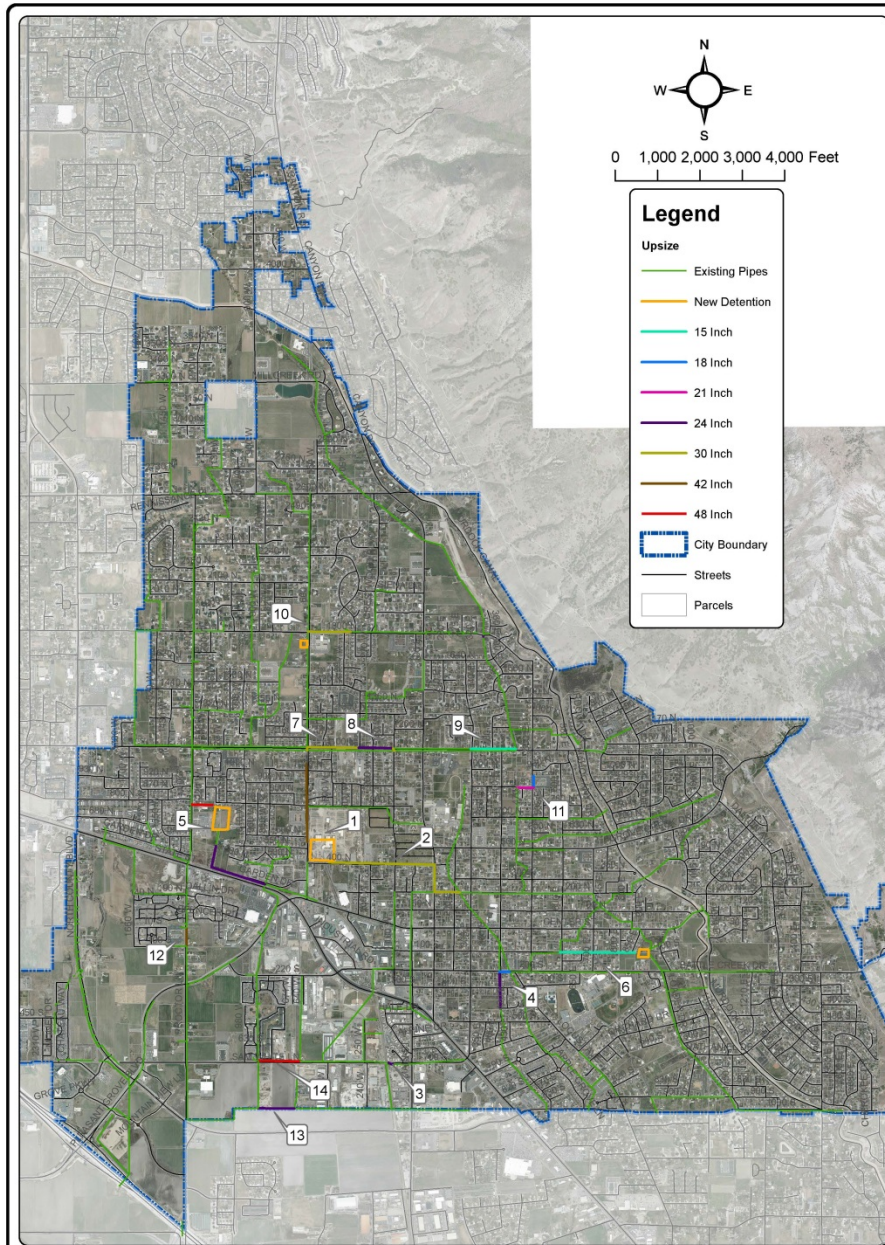
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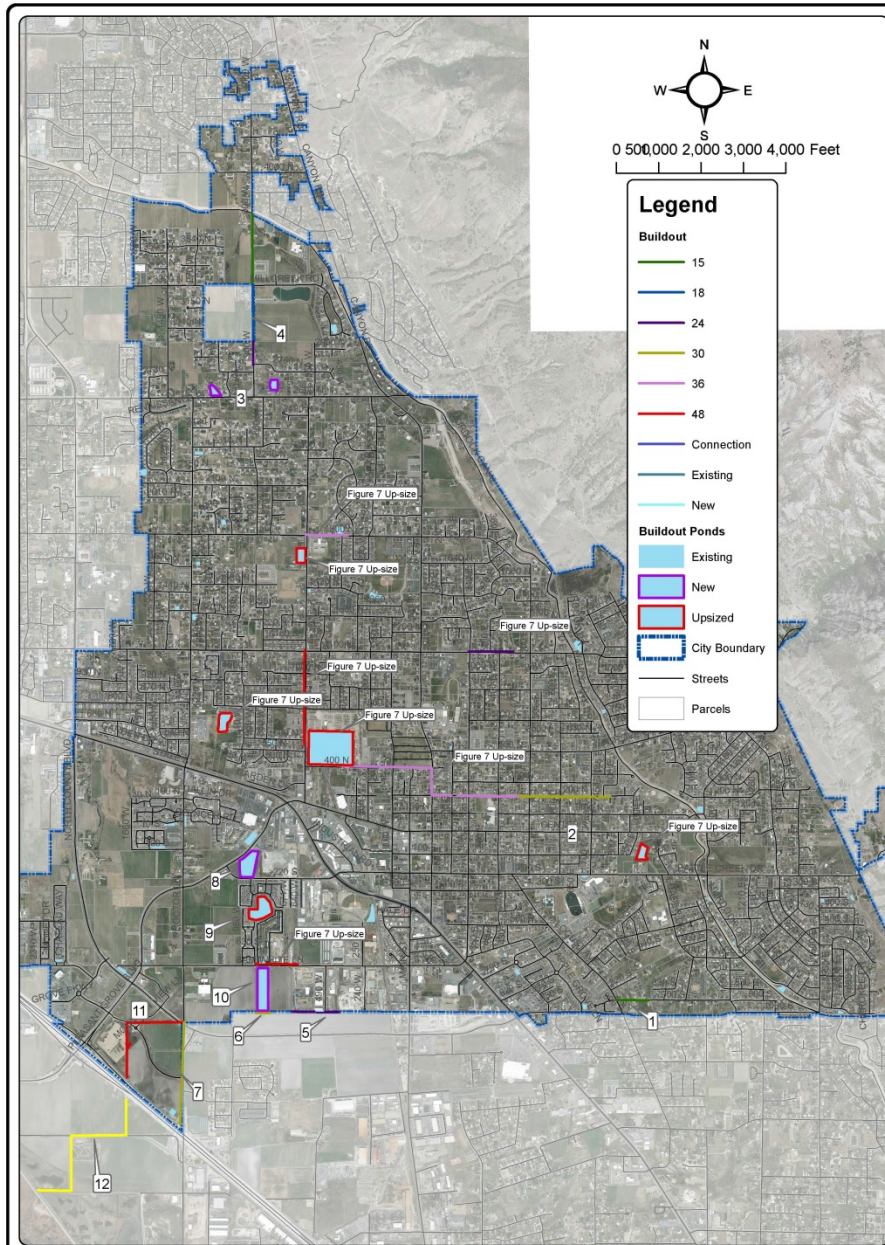
- Storm Water Master Plan
- Impact Fee Facility Plan
- Connection to Impact Fee Analysis
- Impact Fee Facility Plan Addendum
- Future Discussions

# Storm Water Master Plan

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- Level of Service
  - 25-year storm
  - 100-year storm in selected locations
- Existing Deficiencies Map
- Buildout Needs Map





# Impact Fee Facility Plan

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- 10 Year Capital Improvement Plan Table
- User Rates Discussion

**Table 8 Ten Year Improvement Schedule (2013 Dollars)**

Fiscal Year	Description	% Benefit		Operating Expense	
		Cost	to Existing Impact Expense		
2012-13	5 Year Master Plan Update	\$75,000	0%	\$75,000	\$0
	Back Yard Storm Drain Relocation	\$195,309	100%	\$0	\$195,309
	System Replacement	\$1,000,000	100%	\$0	\$1,000,000
	System Deficiencies	\$1,522,064	79%	\$317,652	\$1,204,412
	Buildout Improvements	\$402,767	0%	\$402,767	\$0
	Yearly Total	\$3,195,139	0%	\$795,419	\$2,399,720
2013-14	Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
	Back Yard Storm Drain Relocation	\$195,309	100%	\$0	\$195,309
	System Replacement	\$1,000,000	100%	\$0	\$1,000,000
	System Deficiencies	\$1,522,064	79%	\$317,652	\$1,204,412
	Buildout Improvements	\$402,767	0%	\$402,767	\$0
	Yearly Total	\$3,124,139	0%	\$724,419	\$2,399,720
2014-15	Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
	Back Yard Storm Drain Relocation	\$195,309	100%	\$0	\$195,309
	System Replacement	\$1,000,000	100%	\$0	\$1,000,000
	System Deficiencies	\$1,522,064	79%	\$317,652	\$1,204,412
	Buildout Improvements	\$402,767	0%	\$402,767	\$0
	Yearly Total	\$3,124,139	0%	\$724,419	\$2,399,720
2015-16	Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
	Back Yard Storm Drain Relocation	\$195,309	100%	\$0	\$195,309
	System Replacement	\$1,000,000	100%	\$0	\$1,000,000
	System Deficiencies	\$1,522,064	79%	\$317,652	\$1,204,412
	Buildout Improvements	\$402,767	0%	\$402,767	\$0
	Yearly Total	\$3,124,139	0%	\$724,419	\$2,399,720
2016-17	Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
	Back Yard Storm Drain Relocation	\$195,309	100%	\$0	\$195,309
	System Replacement	\$1,000,000	100%	\$0	\$1,000,000
	System Deficiencies	\$1,522,064	79%	\$317,652	\$1,204,412
	Buildout Improvements	\$402,767	0%	\$402,767	\$0
	Yearly Total	\$3,124,139	0%	\$724,419	\$2,399,720
2017-18	5 Year Master Plan Update	\$40,000	0%	\$40,000	\$0
	Back Yard Storm Drain Relocation	\$195,309	100%	\$0	\$195,309
	System Replacement	\$1,000,000	100%	\$0	\$1,000,000
	System Deficiencies	\$1,522,064	79%	\$317,652	\$1,204,412
	Buildout Improvements	\$402,767	0%	\$402,767	\$0
	Yearly Total	\$3,160,139	0%	\$760,419	\$2,399,720
2018-19	Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
	Back Yard Storm Drain Relocation	\$195,309	100%	\$0	\$195,309
	System Replacement	\$1,000,000	100%	\$0	\$1,000,000
	System Deficiencies	\$1,522,064	79%	\$317,652	\$1,204,412
	Buildout Improvements	\$402,767	0%	\$402,767	\$0

Yearly Total	\$3,124,139	0%	\$724,419	\$2,399,720
2019-20 Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
Back Yard Storm Drain Relocation	\$195,309	100%	\$0	\$195,309
System Replacement	\$1,000,000	100%	\$0	\$1,000,000
System Deficiencies	\$1,522,064	79%	\$317,652	\$1,204,412
Buildout Improvements	\$402,767	0%	\$402,767	\$0
Yearly Total	\$3,124,139	0%	\$724,419	\$2,399,720
2020-21 Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
Back Yard Storm Drain Relocation	\$195,309	100%	\$0	\$195,309
System Replacement	\$1,000,000	100%	\$0	\$1,000,000
System Deficiencies	\$1,522,064	79%	\$317,652	\$1,204,412
Buildout Improvements	\$402,767	0%	\$402,767	\$0
Yearly Total	\$3,124,139	0%	\$724,419	\$2,399,720
2021-22 Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
Back Yard Storm Drain Relocation	\$195,309	100%	\$0	\$195,309
System Replacement	\$1,000,000	100%	\$0	\$1,000,000
System Deficiencies	\$1,522,064	79%	\$317,652	\$1,204,412
Buildout Improvements	\$402,767	0%	\$402,767	\$0
Yearly Total	\$3,124,139	0%	\$724,419	\$2,399,720
<b>Total Expenditures</b>	<b>\$31,348,394</b>		<b>\$7,351,191</b>	<b>\$23,997,203</b>

# Storm Water User Rates – What do they fund

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- Operation and Maintenance
- Equipment and Staff
- Bond Payments
- Implementing and Maintaining EPA Municipal Storm Water Program
- Portion of Capital Improvements



# Connection to Impact Fee Analysis

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- Funding Limitations
  - 60% of System Deficiencies
  - 60% of Buildout Improvements
  - 0% of Backyard Relocation
  - 0% of System Replacement
- Impact Fee Rebate
- Impact Fee Facility Plan Addendum
  - Table
  - Memo

**IFFD Addendum #1 Table 8 Ten Year Improvement Schedule (2013 Dollars)**

Fiscal Year	Description	% Benefit		Operating Expense	
		Cost	to Existing Impact Expense		
2013-14	5 Year Master Plan Update	\$75,000	0%	\$75,000	\$0
	Back Yard Storm Drain Relocation	\$0	100%	\$0	\$0
	System Replacement	\$0	100%	\$0	\$0
	System Deficiencies	\$913,238	79%	\$190,591	\$722,647
	Buildout Improvements	\$241,660	0%	\$241,660	\$0
	Yearly Total	\$1,229,899	0%	\$507,251	\$722,647
2014-15	Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
	Back Yard Storm Drain Relocation	\$0	100%	\$0	\$0
	System Replacement	\$0	100%	\$0	\$0
	System Deficiencies	\$913,238	79%	\$190,591	\$722,647
	Buildout Improvements	\$241,660	0%	\$241,660	\$0
	Yearly Total	\$1,158,899	0%	\$436,251	\$722,647
2015-16	Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
	Back Yard Storm Drain Relocation	\$0	100%	\$0	\$0
	System Replacement	\$0	100%	\$0	\$0
	System Deficiencies	\$913,238	79%	\$190,591	\$722,647
	Buildout Improvements	\$241,660	0%	\$241,660	\$0
	Yearly Total	\$1,158,899	0%	\$436,251	\$722,647
2016-17	Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
	Back Yard Storm Drain Relocation	\$0	100%	\$0	\$0
	System Replacement	\$0	100%	\$0	\$0
	System Deficiencies	\$913,238	79%	\$190,591	\$722,647
	Buildout Improvements	\$241,660	0%	\$241,660	\$0
	Yearly Total	\$1,158,899	0%	\$436,251	\$722,647
2017-18	Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
	Back Yard Storm Drain Relocation	\$0	100%	\$0	\$0
	System Replacement	\$0	100%	\$0	\$0
	System Deficiencies	\$913,238	79%	\$190,591	\$722,647
	Buildout Improvements	\$241,660	0%	\$241,660	\$0
	Yearly Total	\$1,158,899	0%	\$436,251	\$722,647
2018-19	5 Year Master Plan Update	\$40,000	0%	\$40,000	\$0
	Back Yard Storm Drain Relocation	\$0	100%	\$0	\$0
	System Replacement	\$0	100%	\$0	\$0
	System Deficiencies	\$913,238	79%	\$190,591	\$722,647
	Buildout Improvements	\$241,660	0%	\$241,660	\$0
	Yearly Total	\$1,194,899	0%	\$472,251	\$722,647
2019-20	Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
	Back Yard Storm Drain Relocation	\$0	100%	\$0	\$0
	System Replacement	\$0	100%	\$0	\$0
	System Deficiencies	\$913,238	79%	\$190,591	\$722,647
	Buildout Improvements	\$241,660	0%	\$241,660	\$0

Yearly Total	\$1,158,899	0%	\$436,251	\$722,647	
2020-21	Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
	Back Yard Storm Drain Relocation	\$0	100%	\$0	\$0
	System Replacement	\$0	100%	\$0	\$0
	System Deficiencies	\$913,238	79%	\$190,591	\$722,647
	Buildout Improvements	\$241,660	0%	\$241,660	\$0
	Yearly Total	\$1,158,899	0%	\$436,251	\$722,647
2021-22	Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
	Back Yard Storm Drain Relocation	\$0	100%	\$0	\$0
	System Replacement	\$0	100%	\$0	\$0
	System Deficiencies	\$913,238	79%	\$190,591	\$722,647
	Buildout Improvements	\$241,660	0%	\$241,660	\$0
	Yearly Total	\$1,158,899	0%	\$436,251	\$722,647
2022-23	Annual Master Plan Review	\$4,000	0%	\$4,000	\$0
	Back Yard Storm Drain Relocation	\$0	100%	\$0	\$0
	System Replacement	\$0	100%	\$0	\$0
	System Deficiencies	\$913,238	79%	\$190,591	\$722,647
	Buildout Improvements	\$241,660	0%	\$241,660	\$0
	Yearly Total	\$1,158,899	0%	\$436,251	\$722,647
<b>Total Expenditures</b>		<b>\$11,695,986</b>		<b>\$4,469,515</b>	<b>\$7,226,471</b>

# Future Discussion

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- Adopt Storm Water Impact Fee and IFFP Addendum
- Re-visit Level of Service Standards
  - What level of risk are we willing to accept?
- Effect on Impact Fees and Capital Improvement Plans