



Street Improvement Plan

Residential / Local Reconstruction



Council Presentation
April 15, 2014

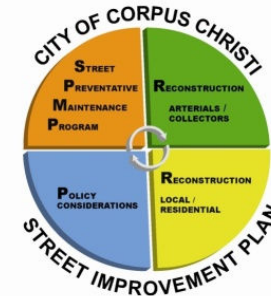


Street Improvement Plan



Current Program

- Arterial/Collector Reconstruction:
 - ✓ Bond: \$55M every 2 years
- Street Preventative Maintenance Program:
 - ✓ Street Fee: \$11.4M/year
 - ✓ General Fund: \$10.8M/year
(no less than 5.24% of GF)
 - ✓ RTA: \$2.9M (2014)
- Policy Considerations:
 - ✓ New design standards & street cut policy

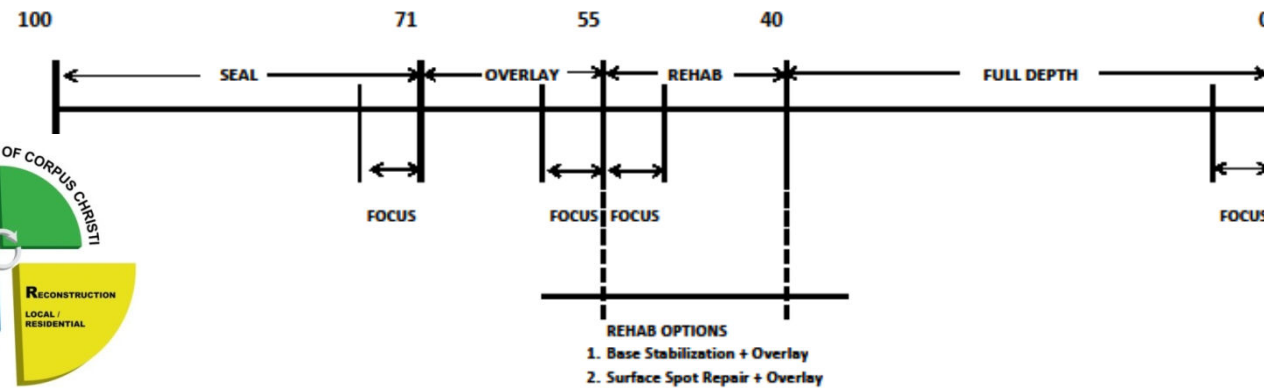
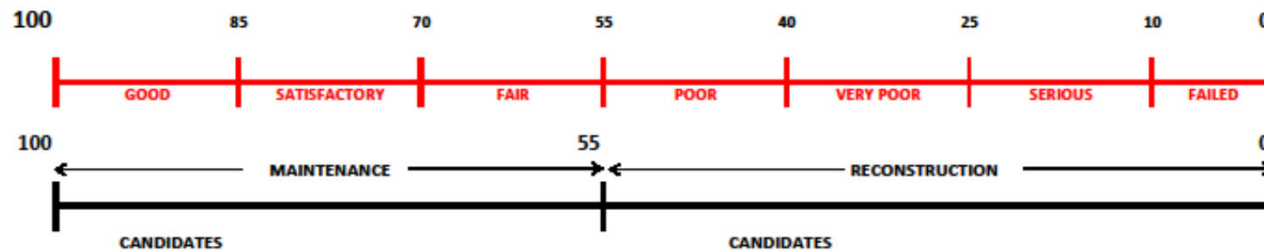




Local Street Improvement Plan Strategies



PCI INDEX





Residential/Local Reconstruction – Primary Overall Street Structural Condition*



PCI	Subgrade Cond.	Asphalt + Base Thickness	Street Profile		Base Material Quality			Option	Life Ext. (Yrs)	\$/SY
<= 40								Full Depth Recon	30	\$125
40-55	Poor							Full Depth Recon	30	\$125
	Good	< 8" thick	No more mat'l					Full Depth Recon	30	\$125
			More mat'l	Add base	Good	Spot Repair	Overlay	Rehab 2	20 – 30**	\$80
				Bad		Stabilize	Overlay	Rehab 1	20 – 30**	\$80
	>=8" thick			Good		Spot Repair	Overlay	Rehab 2	20 – 30**	\$80
Bad					Stabilize	Overlay	Rehab 1	20 – 30**	\$80	

*Parameters identified by coring.

**ESAL counts won't exceed life cycle.



Residential/Local Reconstruction – Existing Need (Square Yards)



RESIDENTIAL / LOCAL

STREET RECONSTRUCTION CANDIDATES - SYS*

PCI**	Total SYS	SYS w/C&G	SYS w/o C&G	Cost
0-39	5,658,356	5,149,431	508,925	\$707,294,500
		91.0%	9.0%	
40-55	2,178,793	1,892,188	286,605	\$174,303,440
		86.8%	13.2%	
Total	7,837,149	7,041,621	795,530	\$881,597,940

**Uses PCI values for SPMP Year 1.

*SYs increased 36% since 2010. Cost per SY to get to “Good” per SY increased 38%; average annual increase in cost per SYs is 11%.



Street Improvement Plan



Annual Program Funding Options:

- \$90M/yr for 10 years
- \$45M/yr for 20 years
- \$30M/yr for 30 years
- \$20M/yr for 45 years
- \$10M/yr for 90 years

Limitations to the amount of additional work:

- Current Internal and External Project Management and Engineering Design Capacity
- Existing Contractor Capacity
 - ✓ Recent large projects have only been receiving 1-3 bidders
 - ✓ Smaller projects (<\$5M total construction costs) could attract additional bidders but also increase the project management/design demand
- Additional impact to the Utility Capital Improvement Program and Rates





Street Improvement Plan



Current Program

- Arterial/Collector Reconstruction:
 - ✓ Bond: \$55M every 2 years (\$27.5M/yr)
- Street Maintenance:
 - ✓ Street Fee: \$11.4M/year
 - ✓ General Fund: \$10.8M/year
(no less than 5.24% of GF)
 - ✓ RTA: \$2.9M (2014)
- Local Street Rehabilitation & Reconstruction Program:
 - ✓ **Recommend \$10M per year initially**
 - ✓ About 7 miles per year (35-40 blocks)
 - ✓ Build projects into \$2.5-5M increments
 - ✓ Balance between Rehab & Reconstruction





Residential/Local Reconstruction Funding Options



- Repurpose an existing add-on sales tax
 - ✓ Crime Control (\$7.3M/year) (Exp. April 2018)
 - ✓ Type A Seawall (\$7.3M/year) (Exp. Sept. 2025)
 - ✓ Type A Arena (\$7.3M/year) (Exp. Sept. 2025)
 - ✓ Type A Economic Development (\$7.3M/year) (Exp. Sept. 2017)
 - ✓ RTA (\$20M/year) (No expiration)
- Additional Voter approved bonds
 - ✓ 10 year program at \$100M (5.8 cents/\$100 valuation for debt)
 - ✓ Every 2 years at \$20M per cycle (1.8 cents/\$100 valuation for debt)
- Industrial District revenue (available 1/1/2015 - \$4.5M)
- Existing or Revised Paving Assessment Program
- Increase Ad Valorem Tax
 - ✓ 4 cents/\$100 valuation = \$5M/year cash
- Add an additional sales tax (requires State Legislation)
 - ✓ 1/8 cent = \$5M/year
- Increase Fuel Tax (requires State Legislation)
 - ✓ 5 cents/gallon = \$5M/year





Residential/Local Reconstruction



Discussion

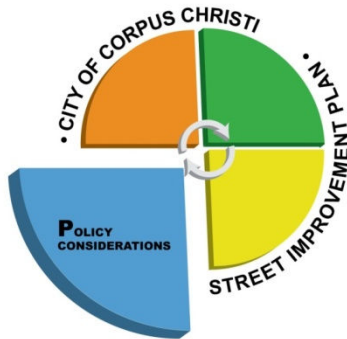


Extending the life of our streets.

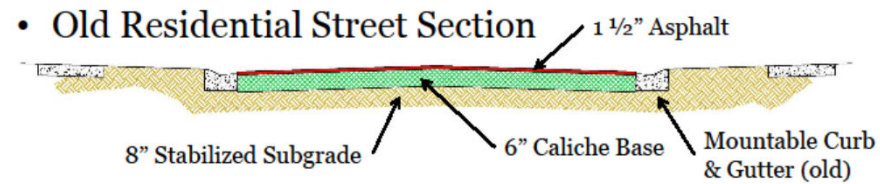
- Background slides



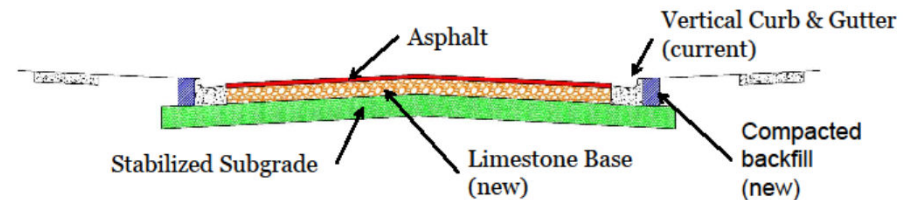
Street Improvement Plan - Policies



- Set design standards for street construction to a **30 year lifecycle**.
- Adopted a tighter Street Cut Policy

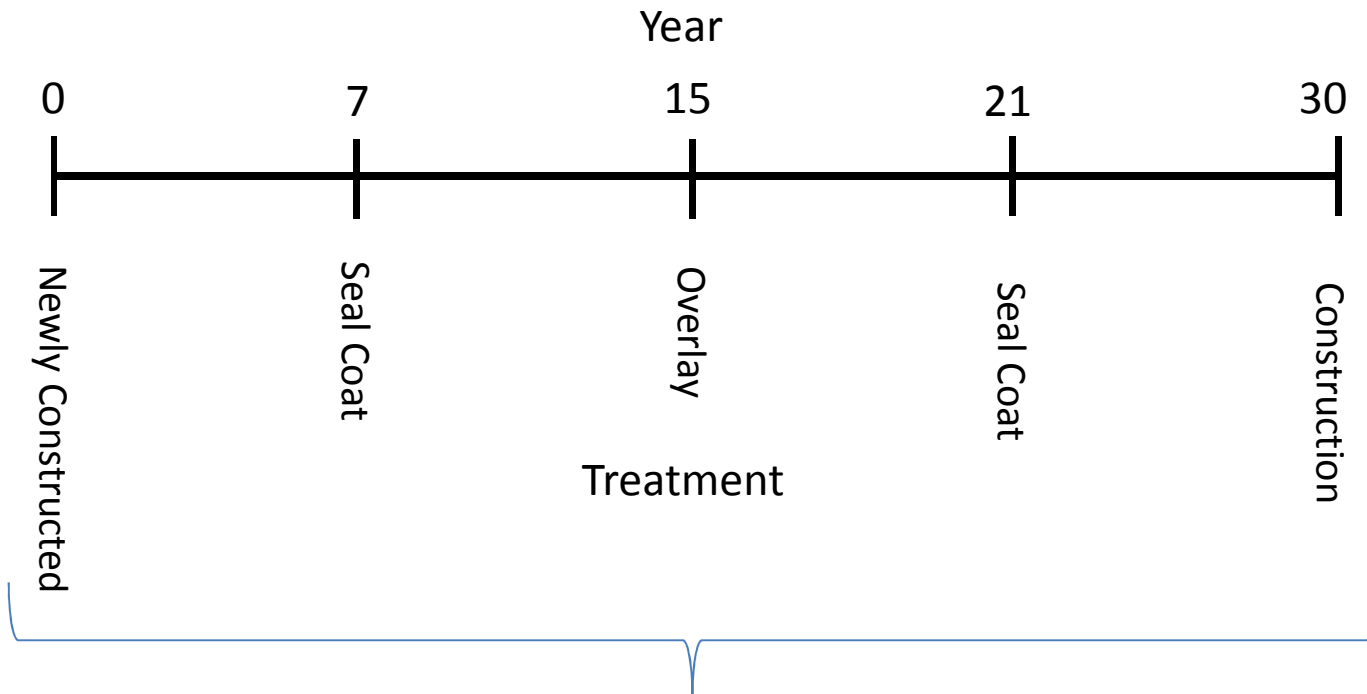


- Residential Street Section improvements:





Street Improvement Plan - Policies



Street Maintenance 30-Year Life Cycle



Residential/Local Reconstruction

– Issues (2010)



- Residential streets comprise 57.4% of street system
- 50% of Residential streets are in “Poor” condition according to their PCI value
- Estimated cost to reconstruct all Poor residential streets = \$ 469M (2010 Estimate)
- Equates to approximately 40 cents/\$100 valuation increase in ad valorem taxes





Residential/Local Reconstruction – Prioritization Process



STREET ASSESSMENT CRITERIA MATRIX

Description of Criteria	Criteria Weight	RANKING PROCEDURE				
		2 Negligible	4 Minor	6 Moderate	8 Major	10 Severe
Health & Safety, vehicular or pedestrian	15.0%	No injures or adverse public or environmental health effects	Minor injury with no lost time; no public or environmental health effects	Minor injury with lost time; no public or environmental health effects	Roadway within 100 linear feet to schools while considering ADA/safe walking routes/ moderate injury with lost time and/or local public safety issues	Roadway with immediate frontage to schools considering ADA/safe walking routes/ major injury with lost time and/or wide spread public safety issues
Community and Public image	10.0%	No complaint. No third party damage. No media coverage	Small number of complaints. No third party damage. Neutral or no media coverage	Many complaints. Minor third party damage. Adverse media coverage	Wide spread complaints. Major third party damage. Wide spread adverse media coverage	Extensive complaints. Major third party damage. Wide spread adverse media coverage. Political opposition
Physical Condition (PCI)	50%	Good (PCI 100-71)	Fair (PCI 70-56)	Poor (PCI 55-46)	Moderately Poor (PCI 45-36)	Very Poor (PCI 35 - 0)
Roadway Classification, ADT and growth	25%	C1 Collector and Other	Parkways and Beach Access, Rural Arterials	C2 Collector	A1 Arterial and C3 Collector	A3 and A2 Arterial



Residential/Local Reconstruction – Prioritization Process



1. Pavement Condition Index
2. Traffic Count/Impact
3. Impacts to Utilities
4. Clustering in neighborhoods
5. Residential vs. non-residential Streets



Residential/Local Reconstruction – Secondary Considerations



1. Drainage – Surface and subsurface flow, curb & gutter, underground pipe, unimproved – ditch
2. Utilities – adjusted or replaced; risk based analysis using MAXIMO and utility age
3. ADA – must bring up to meet standards
4. Traffic control – striping and signage
5. Do we add sidewalks, curb & gutter where none exists?



Residential/Local Reconstruction – Ad Hoc Advisory Committee Recommendation (1/31/12)



Optimum Funding Level

– Reconstruction

- Frequency 30 Years
- Annual Funding \$59,000,000
- 3.33% Streets/Yr

– Overlay

- Frequency 30 Years
- Annual Funding \$14,200,000
- 3.33% Streets/Yr

– Seal Coat

- Frequency 15 Years
- Annual Funding \$7,900,000
- 6.66% Streets/Yr

– Requires Total Annual Funding of **\$81,100,000**



Residential/Local Reconstruction – Ad Hoc Advisory Committee Recommendation (1/31/12)



Minimum Funding Level

- **Reconstruction**
 - Frequency 100 Years
 - Annual Funding \$17,700,000
 - 1.00% of Streets/Yr
- **Overlay**
 - Frequency 50 Years
 - Annual Funding \$8,500,000
 - 2.0% of Streets/Yr
- **Seal Coat**
 - Frequency 10 Years
 - Annual Funding \$11,900,000
 - 10.0% of Streets/Yr
- **Requires a Total Annual Funding of \$38,100,000**



Residential/Local Reconstruction – Ad Hoc Advisory Committee Recommendation (1/31/12)



Recommended Funding Level

- **Reconstruction**
 - Frequency 60 Years
 - Annual Funding \$29,600,000
 - 1.67% of Streets/Yr
- **Overlay**
 - Frequency 30 Years
 - Annual Funding \$14,200,000
 - 3.33% of Streets/Yr
- **Seal Coat**
 - Frequency 10 Years
 - Annual Funding \$11,900,000
 - 10.0% of Streets/Yr
- **Requires Total Annual Funding of \$55,700,000**



Residential/Local Reconstruction – Staff Recommended Funding Strategy (7/17/12)



- Reconstruction/Rehabilitation: \$20,000,000
 - Debt (Arterial & Collectors) - \$ 15M* (75%)
 - Assessments (Local) - \$ 5M** (25%)
 - ✓ Property Owner \$ 4.5M (90%)
 - ✓ City \$ 0.5M (10%)
- Maintenance: \$15,000,000
 - Street Fee -
 - ✓ Seal Coat
 - ✓ Overlay
- Total Recommendation: \$35,000,000

* Utilities paid for by rate payer.

**Utilities paid for through assessment.



Residential/Local Reconstruction – Staff Alternative Funding Strategy (7/17/12)



- Reconstruction/Rehabilitation: \$40,000,000
 - Debt (Arterial & Collectors) - \$ 30M* (75%)
 - Assessments (Local) - \$ 10M** (25%)
 - ✓ Property Owner \$ 9M (90%)
 - ✓ City \$ 1M (10%)
- Maintenance: \$15,000,000
 - Street Fee -
 - ✓ Seal Coat
 - ✓ Overlay
- Total Recommendation: \$55,000,000

* Utilities paid for by rate payer.

**Utilities paid for through assessment.



Residential/Local Reconstruction – Reconstruction/Rehabilitation Funding Cycle



July 24, 2012 Council Work Session – Bond 2012

- Staff Recommendation –
 - ✓ \$45M - Street Improvements
 - ✓ \$ 5M - Service Center Complex Improvements
 - ✓ \$ 5M - Park & Recreation Improvements
 - ✓ Schedule \$15.5M Street Reconstruction/Rehabilitation Bond election every three years (outside of four year bond election cycle)
- City Council Direction –
 - ✓ Set Proposition 1 for Bond 2012 to full \$55M for streets
 - ✓ Prepare a 2-year cycle for bonds for streets @ \$55M per election (not including utilities)